284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

DATA PACKAGE

VOLATILE ORGANICS

PROJECT NAME : US EPA RIVERSIDE INDUSTRIAL PARK SUPERFUND SITE

WOODARD & CURRAN

800 Westchester Avenue, Suite N507

Suite N507

Rye Brook, NY - 10573

Phone No: 800-807-4080

ORDER ID : Q1668

ATTENTION : Bryan Maurer

Laboratory Certification ID # 20012

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284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Cover Page

Order ID : Q1668

Project ID : US EPA Riverside Industrial Park Superfund Site

Client : Woodard & Curran

Lab Sample Number	Client Sample Number
Q1668-01	IA-B1-4-3252025
Q1668-02	IA-B1-2-3252025
Q1668-03	IA-B1-3-3252025
Q1668-04	IA-B1-1-3252025

I certify that the data package is in compliance with the terms and conditions of the contract,both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Signature : APPROVED
By Nimisha Pandya, QA/QC Supervisor at 9:28 am, Jun 25, 2025

Date: 4/21/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

SHIPPING DOCUMENTS

Alliance TECHNICAL GROUP

284 Sheffield Street, Mountainside, New Jersey 07092 Phone : 908 789 8900 Fax : 908 789 8922

Alliance Project No. : Q1668

Client Contact Information	Bottle Order ID : **B2502051**	Courier :	10 of 13 COCs
Client ID : **WOOD06** Project ID :	**NYCHHC Environmental Services**	Sampler Name(s) : Clyde Metzler	Analysis / Matrix
Customer Name : **Woodard & Curran**	Project Manager : **Stephanie rogacki**	AIR ANALYSIS CHAIN-OF-CUSTODY	
Address : **800 Westchester Avenue, Suite N507** **Suite N507**	Phone Number : **800-807-4080**		
	Fax Number : **914-448-0147**		
	Site Details:	Batch Certified	
City : **Rye Brook**			
State : **NY**	Analysis Turnaround Time		
Zip Code : **10573**	Standard : **10 business days** **OR**	Data Package Type :	
Country :	Rush (Specify): _____ **Days**	EDD Type :	

Sample Identification	Sample Date(s)	Time Start (24 hr Clock)	Time Stop (24 hr Clock)	Can Vacuum in Field ("Hg) (Start)	Can Vacuum in Field ("Hg) (Stop)**	Interior Temp. (F) (Start)	Interior Temp. (F) (Stop)	Out going Can Pressure ("Hg)(Lab)	In coming Can Pressure ("Hg)(Lab)	Flow Reg. ID	Can ID		Flow Controller Readout (ml/min)	Can Cert ID	TO-15				Indoor/Ambinet Air	Soil Gas		
TA-BI-4-3/28/25	3/25/25 3/26/25	1041	1020	-30	-7	70	70	-30	-5.9	10567 ~~10506~~	10588 ~~10311~~		6 L	4.16	VL042078.D	X				X			

Temperature (Fahrenheit)	Ambient	Maximum	Minimum	
Start	45	54	38	
Stop	40			

GC/MS Analyst Signature (TO-15)

Pressure (Inches of Hg)	Ambient	Maximum	Minimum	
Start	30.05	30.25	29.90	
Stop	30.25			

** Submittal of this COC indicates approval of the analysis based on existing conditions.

* PiolA Reading 555G

Please follow the instructions on the back of this COC.

Special Instructions/QC Requirements & Comments :

Suspected Contamination: High Medium Low PID Readings: 0.3 ppm

Sampling site (State): New Jersey

Quick Connector required : NO

Canisters Shiped by: Sam	Date/Time: 03/28/25	Canisters Received by:	Date/Time: 3/27/25 1125
Samples Relinquished by:	Date/Time: 3/27/25 1125	Received by:	Date/Time:
Relinquished by:	Date/Time:	Received by:	Date/Time:

B2502051 - 20

Alliance TECHNICAL GROUP

284 Sheffield Street, Mountainside, New Jersey 07092 Phone : 908 789 8900 Fax : 908 789 8922

Alliance Project No. : _____

Client Contact Information	Bottle Order ID : **B2502051**	Courier :	11 of 13 COCs
Client ID : **WOOD06** Project ID :	**NYCHHC Environmental Services**	Sampler Name(s) : Clayton Hefner	Analysis / Matrix
Customer Name : **Woodard & Curran**	Project Manager : **Stephanie rogacki**	AIR ANALYSIS CHAIN-OF-CUSTODY	
Address : **800 Westchester Avenue, Suite N507** **Suite N507**	Phone Number : **800-807-4080**		
	Fax Number : **914-448-0147**		
	Site Details:	Batch Certified	
City : **Rye Brook**			
State : **NY**	Analysis Turnaround Time		
Zip Code : **10573**	Standard : **10 business days** **OR**	Data Package Type :	
Country :	Rush (Specify): _____ **Days**	EDD Type :	

Sample Identification	Sample Date(s)	Time Start (24 hr Clock)	Time Stop (24 hr Clock)	Can Vacuum in Field ("Hg) (Start)	Can Vacuum in Field ("Hg) (Stop)**	Interior Temp. (F) (Start)	Interior Temp. (F) (Stop)	Out going Can Pressure ("Hg)(Lab)	In coming Can Pressure ("Hg)(Lab)	Flow Reg. ID	Can ID		Flow Controller Readout (ml/min)	Can Cert ID	TO-15				Indoor/Ambinet Air	Soil Gas		
IA-B1-2-3/25/25	3/25/25 3/26/25	1029	1015	-29	-5	70	70	-30	-5.5	10529	10269	6 L	4.16	VL042052.D	X				X			

Temperature (Fahrenheit)	Ambient	Maximum	Minimum	
Start	45	54	38	
Stop	40			

GC/MS Analyst Signature (TO-15)

Pressure (Inches of Hg)	Ambient	Maximum	Minimum	
Start	30.05	30.25	29.90	
Stop	30.25			

** Submittal of this COC indicates approval of the analysis based on existing conditions.

* Hold Pending SSSG

Please follow the instructions on the back of this COC.

Special Instructions/QC Requirements & Comments :

Suspected Contamination: High Medium Low PID Readings: 0.3 ppm

Sampling site (State): New Jersey

Quick Connector required : No

Canisters Shiped by: Sean	Date/Time: 03/24/25	Canisters Received by: CR	Date/Time: 3/27/25 1125		
Samples Relinquished by:	Date/Time: 3/27/25 1125	Received by:	Date/Time:	**B2502051 - 9**	
Relinquished by:	Date/Time:	Received by:	Date/Time:		

Alliance TECHNICAL GROUP

284 Sheffield Street, Mountainside, New Jersey 07092 Phone : 908 789 8900 Fax : 908 789 8922

Alliance Project No. : _____

Client Contact Information	Bottle Order ID : **B2502051**	Courier :	12 of 13 COCs
Client ID : **WOOD06** Project ID :	**NYCHHC Environmental Services**	Sampler Name(s) : Clayton Hefner	Analysis / Matrix
Customer Name : **Woodard & Curran**	Project Manager : **Stephanie rogacki**	AIR ANALYSIS CHAIN-OF-CUSTODY	
Address : **800 Westchester Avenue, Suite N507** **Suite N507**	Phone Number : **800-807-4080**		
	Fax Number : **914-448-0147**		
	Site Details:	Batch Certified	
City : **Rye Brook**			
State : **NY**	Analysis Turnaround Time		
Zip Code : **10573**	Standard : **10 business days** **OR**	Data Package Type :	
Country :	Rush (Specify): _____ **Days**	EDD Type :	

Sample Identification	Sample Date(s)	Time Start (24 hr Clock)	Time Stop (24 hr Clock)	Can Vacuum in Field ("Hg) (Start)	Can Vacuum in Field ("Hg) (Stop)**	Interior Temp. (F) (Start)	Interior Temp. (F) (Stop)	Out going Can Pressure ("Hg)(Lab)	In coming Can Pressure ("Hg)(Lab)	Flow Reg. ID	Can ID		Flow Controller Readout (ml/min)	Can Cert ID	TO-15				Indoor/Ambinet Air	Soil Gas		
1A-BI-S-3/25/25	3/25/25 3/26/25	1039	1018	-30	-7	70	70	-30	-5.5	10520	10060 ~~10283~~	6 L	4.16	~~VL042078.D~~	X				X			

Temperature (Fahrenheit)	Ambient	Maximum	Minimum	
Start	45	54	38	
Stop	40			

GC/MS Analyst Signature (TO-15)

Pressure (Inches of Hg)	Ambient	Maximum	Minimum	
Start	30.05	30.25	29.90	
Stop	30.25			

** Submittal of this COC indicates approval of the analysis based on existing conditions.

Hold pending 555G

Please follow the instructions on the back of this COC.

Special Instructions/QC Requirements & Comments :

Suspected Contamination: High Medium Low PID Readings: 0.3 ppm

Sampling site (State): New Jersey

Quick Connector required : NO

Canisters Shiped by: Sam	Date/Time: 03/24/25	Canisters Received by: CR	Date/Time: 3/27/25 1125	**B2502051 - 15**
Samples Relinquished by:	Date/Time: 3/27/25 1125	Received by:	Date/Time:	
Relinquished by:	Date/Time:	Received by:	Date/Time:	

Alliance TECHNICAL GROUP

284 Sheffield Street, Mountainside, New Jersey 07092 Phone : 908 789 8900 Fax : 908 789 8922

Alliance Project No. : _____

Client Contact Information	Bottle Order ID : **B2502051**	Courier :
Client ID : **WOOD06** Project ID :	**NYCHHC Environmental Services**	Sampler Name(s) : Cleyton Hefner
Customer Name : **Woodard & Curran**	Project Manager : **Stephanie rogacki**	AIR ANALYSIS CHAIN-OF-CUSTODY
Address : **800 Westchester Avenue, Suite N507** **Suite N507**	Phone Number : **800-807-4080**	
	Fax Number : **914-448-0147**	Individual Certified
	Site Details:	
City : **Rye Brook**		
State : **NY**	Analysis Turnaround Time	
Zip Code : **10573**	Standard : **10 business days** **OR**	Data Package Type :
Country :	Rush (Specify): _____ **Days**	EDD Type :

13 of 13 COCs

Sample Identification	Sample Date(s)	Time Start (24 hr Clock)	Time Stop (24 hr Clock)	Can Vacuum in Field ("Hg) (Start)	Can Vacuum in Field ("Hg) (Stop)**	Interior Temp. (F) (Start)	Interior Temp. (F) (Stop)	Out going Can Pressure ("Hg)(Lab)	In coming Can Pressure ("Hg)(Lab)	Flow Reg. ID	Can ID		Flow Controller Readout (ml/min)	Can Cert ID	Analysis: TO-15	Matrix: Indoor/Ambinet Air	Matrix: Soil Gas
~~IA-BI-1~~ 3/25/25	3/25/25 3/26/25	1025	1013	-30	-5	70	70	-30	-4.7	10110	~~10601~~ 10601	6 L	4.16	~~VL041876.D~~ OK	X	X	

Temperature (Fahrenheit)	Ambient	Maximum	Minimum	
Start	45	54	38	
Stop	40			

GC/MS Analyst Signature (TO-15)

Pressure (Inches of Hg)	Ambient	Maximum	Minimum	
Start	30.05	30.25	29.90	
Stop	30.25			

** Submittal of this COC indicates approval of the analysis based on existing conditions.

* Hold Pending SSSG

Please follow the instructions on the back of this COC.

Special Instructions/QC Requirements & Comments :

Suspected Contamination: High Medium Low PID Readings: 0.3 ppm

Sampling site (State): New Jersey

Quick Connector required : NO

Canisters Shiped by:	Date/Time: 03/24/25	Canisters Received by:	Date/Time: 3/27/25 1125
Samples Relinquished by:	Date/Time: 3/27/25 1125	Received by:	Date/Time:
Relinquished by:	Date/Time:	Received by:	Date/Time:

B2502051 - 37

From: Jill Tribley <jtribley@woodardcurran.com>
Sent: Thursday, April 10, 2025 4:48 PM
To: Kiran Saleem; CHEMTECH-Data@chemtech.net; Bryan Maurer; Stephanie Rogacki
Cc: Yazmeen Gomez; Clayton Hefner
Subject: RE: Summary Report Details For Project US EPA Riverside Industrial Park Superfund Site-Q1725.
Attachments: Q1726-LoginSummaryReport.pdf; Q1668-LoginSummaryReport.pdf

EXTERNAL EMAIL - This email was sent by a person from outside your organization. Exercise caution when clicking links, opening attachments or taking further action, before validating its authenticity.

Secured by Check Point

Hello Kiran, please analyze the samples from the attached SDGs:
Q1726 – all (Building 2 IA samples)
Q1668 – all (Building 1 IA samples)
Q1665 – Samples -03, -10, -11, and -18 (Building 10 samples) These are highlighted on the attached login summary; I sent previous instruction on this SDG earlier this week. These samples are in addition to the analysis we requested on 4/8.
Please reach out if you have any questions!

Jill D. Tribley, P.G.
412-535-0833
Woodard & Curran

From: Kiran Saleem <Kiran.Saleem@alliancetg.com>
Sent: Thursday, April 10, 2025 2:06 PM
To: CHEMTECH-Data@chemtech.net; Bryan Maurer <bmaurer@woodardcurran.com>; Jill Tribley <jtribley@woodardcurran.com>; Stephanie Rogacki <SRogacki@woodardcurran.com>
Cc: Yazmeen Gomez <Yazmeen.Gomez@alliancetg.com>
Subject: Re: Summary Report Details For Project US EPA Riverside Industrial Park Superfund Site-Q1725.

Good Afternoon Bryan,

Please review the results and let us know which samples you would want to activate from which are on hold.

Thank you!

NOTE: Chemtech is now an Alliance Technical Group company. Please add AllianceTG.com to your safe senders list to ensure receipt of important emails.

Regards,

Kiran Saleem
Project Manager
Alliance Technical Group
Main: 908-789-8900
Direct: 908-728-3148
Address: 284 Sheffield St, Ste 1, Mountainside, NJ 07092
www.alliancetg.com

From: CHEMTECH-Data@chemtech.net <CHEMTECH-Data@chemtech.net>
Sent: Thursday, April 10, 2025 1:26 PM
To: bmaurer@woodardcurran.com <bmaurer@woodardcurran.com>; jtribley@woodardcurran.com <jtribley@woodardcurran.com>; srogacki@woodardcurran.com <srogacki@woodardcurran.com>
Subject: Summary Report Details For Project US EPA Riverside Industrial Park Superfund Site-Q1725.

EXTERNAL EMAIL - This email was sent by a person from outside your organization. Exercise caution when clicking links, opening attachments or taking further action, before validating its authenticity.

Secured by Check Point

To Bryan Maurer;

Please see the attached Summary Report for the following project, or download the file using your login credentials from the link below.

Order ID	: Q1725
Project ID	: US EPA Riverside Industrial Park Superfund Site
Download File	: **https://chemtech.net/secureLogin.aspx**
Order Date	: 4/3/2025 1:48:00 PM
CHEMTECH's Project Manager	: YAZMEEN GOMEZ , YAZMEEN@CHEMTECH.NET , 908-357-0579 Ext :3149
CHEMTECH's Sales Executive	: Jordan Hedvat , jordan@chemtech.net , 908-728-3144 Ext :

Thank you for the opportunity to provide you with our services. For any questions please feel free to contact your project manager.

Click Here for our short online customer Survey **chemtech.net/ClientSurvey.aspx**.

Thank you,

Alliance Technical Group LLC.

Notice: The information transmitted in this e-mail message and in any attachments is intended Solely for the attention of the named addressee(s) and may contain confidential and/or privileged material. Any review, retransmission, dissemination or other use of, or taking of any action in reliance upon, this information by persons or entities other than the intended recipient is strictly prohibited and may be unlawful. If you have received this transmission in error, please notify us immediately by return e-mail, and permanently delete this transmission, including attachments if any, from any computer.

284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255424 Rev 1
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488

New Jersey Department of Environmental Protection

Internal Chain of Custody

Instructions: Use 1 form for each 20 samples of aliquot

Laboratory Person Breaking Field Seal on Sample Shuttle & Accepting Responsibility for Sample

Laboratory: Chemtech
NAME:
Field Sample Seal No.: Q1668
Case No.: US EPA Riverside Industria

Location: 284 Sheffield Street, Mountainside, NJ 7092
Title: Sample Custodian
Date Broken: ~~3/25/2025~~ 3/27/2025 Military Time Seal Broken: 11:25:00
Analytical Parameter/Fraction: TO-15

Sample No.	Aliquot/Extract No.	Sample No.	Aliquot/Extract No.
Q1668-01	IA-B1-4-32525		
Q1668-02	IA-B1-2-32525		
Q1668-03	IA-B1-3-32525		
Q1668-04	IA-B1-1-32525		

Date	Time	Relinquished By	Received By	Purpose of Change of Custody
3-27-25	1440	Signature	Signature	
		Printed Name Ostenoza Rivera	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	

Distribution: White - Original (Sent With Report) *Yellow - Contractor Archive* *Pink - Sample Custodian - Interim Copy*

AIR SAMPLE PRESSURE & DILUTION LOGBOOK

Analyst Signature: _____ Supervisor Signature: _____

METHOD: TO-15 Pressure Gauge ID: AZ55971

Date	Sample Number	Canister #	Initial Pressure psia	Initial Pressure Hg	Final Pressure psia	Final Pressure Hg	Dilution Factor	Comment
03/25/25	Q1665-22	10306	11.2	-7.1				SV
03/27/25	Q1668-01	10588	11.8	-5.9				
03/27/25	Q1668-02	10269	12.0	-5.5				
↓	Q1668-03	10060	12.0	-5.5				
↓	Q1668-04	10601	12.4	-4.7				
03/27/25	Q1669-01	10311	11.0	-7.5				
↓	Q1669-02	10283	11.8	-5.9				
	Q1669-03	10320	11.6	-6.3				
	Q1669-04	10267	12.4	-4.7				
	Q1669-05	10607	13.0	-3.5				
	Q1669-06	10606	13.8	-1.8				
	Q1669-07	10445	10.8	-8.0				
	Q1669-08	10282	11.2	-7.1				
↓	Q1669-09	10285	11.6	-6.3				

CHEMTECH
284 Sheffield Street, Mountainside, NJ 07092 P: (908) 789-8900 F: (908)789-8922
Client Sample ID #: 1A-B1-3-3/25/25
Client Name:
Project Name:
Date: 3/25 - 3/26/25 Time: 10:12
Analysis:
Comments:
Date Received:
Disposal:
Storage Location: Air Lab
Sample: Q1668-03
Cust #: 1A-B1-3-32525

CHEMTECH
284 Sheffield Street, Mountainside, NJ 07092 P: (908) 789-8900 F: (908)789-8922
Client Sample ID #: 1A-B1-1-3/25/25
Client Name:
Project Name:
Date: 3/25 - 3/26/25 Time: 10:13
Analysis: TO-15
Comments:
Date Received:
Disposal:
Storage Location: Air Lab
Sample: Q1668-04
Cust #: 1A-B1-1-32525

CHEMTECH
284 Sheffield Street, Mountainside, NJ 07092 P: (908) 789-8900 F: (908)789-8922
Client Sample ID #: IA-B1-4-3/25/25
Client Name: Woodard & Curran
Project Name: PFC Assessment
Date: 3/25-3/26/25 Time: 10:20
Analysis:
Comments:
CHEMTECH Disposal:
Storage Location: Air Lab
Sample: Q1668-01
Cust #: IA-B1-4-32525
10588
82502951

CHEMTECH
284 Sheffield Street, Mountainside, NJ 07092 P: (908) 789-8900 F: (908)789-8922
Client Sample ID #: IA-B1-2-3/25/25
Client Name: Woodard & Curran
Project Name: PFC Assessment
Date: 3/25-3/26/25 Time: 10:15
Analysis: TO-15
Comments:
Date Received: Disposal:
Storage Location: Air Lab
Sample: Q1668-02
Cust #: IA-B1-2-32525
10269
82502951

284 Sheffield Street, Mountainside, NJ 07092
Phone: 908 789 8900 Fax: 908 789 8922

CASE NARRATIVE

Woodard & Curran
Project Name: US EPA Riverside Industrial Park Superfund Site
Project # N/A
Chemtech Project # Q1668
Test Name: TO-15

A. Number of Samples and Date of Receipt:
4 Air samples were received on 03/27/2025.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: TO-15. This data package contains results for TO-15.

C. Analytical Techniques:
The analysis performed on instrument MSVOA_L were done using GC colum n RTX-1, which is 60 meters, 0.32 mm id, 1.0 um df, Restek Cat. #10157. The Trap was supplied by Entech, glass bead and Tenax , Entech 7100 A Preconcentrator.The analysis of TO-15 was based on method TO-15.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Surrogate recoveries met the acceptable criteria.
The Internal Standards Areas met the acceptable requirements.
The Retention Times were acceptable for all samples.

The RPD for {Q1668-01DUP} with File ID: VL042362.D met criteria except for Tetrachloroethene[22.2%] due to difference in results of original and DUP.

The Blank Spike met requirements for all samples.
The Blank analysis did not indicate the presence of lab contamination.
The Initial Calibration met the requirements.
The Tuning criteria met requirements.

Samples IA-B1-4-3252025, IA-B1-3-3252025 were diluted due to high concentrations.

E. Additional Comments:
This data Package has been revised to include DUP raw data.
The Form 6 is not included in the data package because the Initial Calibration was performed using 7 points.

The not QT review data is reported in the Miscellaneous.

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The Sample # IA-B1-4-3252025DL and IA-B1-3-3252025DL have the concentration of target compound below Method detection limits, therefore it is not reported as Hit in Form1.

The Manual Integrations are performed for the followings.

Manual Integration Report			
Sequence	VL041725	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Reviewed On	Supervised By	Supervised On	Reason
VSTDICCC010	VL042349.D	m/p-Xylene	SAM	4/18/2025 4:19:07 PM	MMDadoda	4/18/2025 10:45:20 PM	Peak Integrated by Software incorrectly
VSTDICC002	VL042350.D	1,4-Dioxane	SAM	4/18/2025 4:19:12 PM	MMDadoda	4/18/2025 10:45:17 PM	Peak Integrated by Software incorrectly
VSTDICC002	VL042350.D	cis-1,3-Dichloropropene	SAM	4/18/2025 4:19:12 PM	MMDadoda	4/18/2025 10:45:17 PM	Peak Integrated by Software incorrectly
VSTDICC002	VL042350.D	Ethanol	SAM	4/18/2025 4:19:12 PM	MMDadoda	4/18/2025 10:45:17 PM	Peak Integrated by Software incorrectly
VSTDICC002	VL042350.D	Heptane	SAM	4/18/2025 4:19:12 PM	MMDadoda	4/18/2025 10:45:17 PM	Peak Integrated by Software incorrectly
VSTDICC002	VL042350.D	m/p-Xylene	SAM	4/18/2025 4:19:12 PM	MMDadoda	4/18/2025 10:45:17 PM	Peak Integrated by Software incorrectly
VSTDICC002	VL042350.D	Trichloroethene	SAM	4/18/2025	MMDadoda	4/18/2025 10:45:17 PM	Peak Integrate

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Phone: 908 789 8900 Fax: 908 789 8922

				4:19:12 PM			d by Software incorrectly
VSTDICC001	VL042351.D	1,1,2-Trichloroethane	SAM	4/18/2025 4:19:17 PM	MMDadoda	4/18/2025 10:45:15 PM	Peak Integrated by Software incorrectly
VSTDICC001	VL042351.D	1,3-Butadiene	SAM	4/18/2025 4:19:17 PM	MMDadoda	4/18/2025 10:45:15 PM	Peak Integrated by Software incorrectly
VSTDICC001	VL042351.D	1,4-Dioxane	SAM	4/18/2025 4:19:17 PM	MMDadoda	4/18/2025 10:45:15 PM	Peak Integrated by Software incorrectly
VSTDICC001	VL042351.D	2,2,4-Trimethylpentane	SAM	4/18/2025 4:19:17 PM	MMDadoda	4/18/2025 10:45:15 PM	Peak Integrated by Software incorrectly
VSTDICC001	VL042351.D	cis-1,3-Dichloropropene	SAM	4/18/2025 4:19:17 PM	MMDadoda	4/18/2025 10:45:15 PM	Peak Integrated by Software incorrectly
VSTDICC001	VL042351.D	Cyclohexane	SAM	4/18/2025 4:19:17 PM	MMDadoda	4/18/2025 10:45:15 PM	Peak Integrated by Software incorrectly
VSTDICC001	VL042351.D	Ethanol	SAM	4/18/2025 4:19:17 PM	MMDadoda	4/18/2025 10:45:15 PM	Peak Integrated by Software incorrectly
VSTDICC001	VL042351.D	Heptane	SAM	4/18/2025 4:19:17 PM	MMDadoda	4/18/2025 10:45:15 PM	Peak Integrated by Software incorrectly
VSTDICC001	VL042351.D	m/p-Xylene	SAM	4/18/2025 4:19:17 PM	MMDadoda	4/18/2025 10:45:15 PM	Peak Integrated by Software

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							incorrectly
VSTDICC001	VL042351.D	Methyl Methacrylate	SAM	4/18/2025 4:19:17 PM	MMDadoda	4/18/2025 10:45:15 PM	Peak Integrated by Software incorrectly
VSTDICC001	VL042351.D	t-1,3-Dichloropropene	SAM	4/18/2025 4:19:17 PM	MMDadoda	4/18/2025 10:45:15 PM	Peak Integrated by Software incorrectly
VSTDICC0.5	VL042352.D	1,1,2-Trichloroethane	SAM	4/18/2025 4:20:33 PM	MMDadoda	4/18/2025 10:45:07 PM	Peak Integrated by Software incorrectly
VSTDICC0.5	VL042352.D	1,2-Dichloropropane	SAM	4/18/2025 4:20:33 PM	MMDadoda	4/18/2025 10:45:07 PM	Peak Integrated by Software incorrectly
VSTDICC0.5	VL042352.D	1,4-Dioxane	SAM	4/18/2025 4:20:33 PM	MMDadoda	4/18/2025 10:45:07 PM	Peak Integrated by Software incorrectly
VSTDICC0.5	VL042352.D	4-Methyl-2-Pentanone	SAM	4/18/2025 4:20:33 PM	MMDadoda	4/18/2025 10:45:07 PM	Peak Integrated by Software incorrectly
VSTDICC0.5	VL042352.D	Chlorobenzene	SAM	4/18/2025 4:20:33 PM	MMDadoda	4/18/2025 10:45:07 PM	Peak Integrated by Software incorrectly
VSTDICC0.5	VL042352.D	cis-1,3-Dichloropropene	SAM	4/18/2025 4:20:33 PM	MMDadoda	4/18/2025 10:45:07 PM	Peak Integrated by Software incorrectly
VSTDICC0.5	VL042352.D	Ethanol	SAM	4/18/2025 4:20:33 PM	MMDadoda	4/18/2025 10:45:07 PM	Peak Integrated by Software incorrectly

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VSTDICC0.5	VL042352.D	Heptane	SAM	4/18/2025 4:20:33 PM	MMDadoda	4/18/2025 10:45:07 PM	Peak Integrated by Software incorrectly
VSTDICC0.5	VL042352.D	m/p-Xylene	SAM	4/18/2025 4:20:33 PM	MMDadoda	4/18/2025 10:45:07 PM	Peak Integrated by Software incorrectly
VSTDICC0.5	VL042352.D	Methyl Methacrylate	SAM	4/18/2025 4:20:33 PM	MMDadoda	4/18/2025 10:45:07 PM	Peak Integrated by Software incorrectly
VSTDICC0.5	VL042352.D	t-1,3-Dichloropropene	SAM	4/18/2025 4:20:33 PM	MMDadoda	4/18/2025 10:45:07 PM	Peak Integrated by Software incorrectly
VSTDICC0.5	VL042352.D	Tetrahydrofuran	SAM	4/18/2025 4:20:33 PM	MMDadoda	4/18/2025 10:45:07 PM	Peak Integrated by Software incorrectly
VSTDICC0.1	VL042353.D	1,1,1-Trichloroethane	SAM	4/18/2025 4:20:37 PM	MMDadoda	4/18/2025 10:45:04 PM	Peak Integrated by Software incorrectly
VSTDICC0.1	VL042353.D	1,1,2,2-Tetrachloroethane	SAM	4/18/2025 4:20:37 PM	MMDadoda	4/18/2025 10:45:04 PM	Peak Integrated by Software incorrectly
VSTDICC0.1	VL042353.D	1,2-Dibromoethane	SAM	4/18/2025 4:20:37 PM	MMDadoda	4/18/2025 10:45:04 PM	Peak Integrated by Software incorrectly
VSTDICC0.1	VL042353.D	Tetrachloroethene	SAM	4/18/2025 4:20:37 PM	MMDadoda	4/18/2025 10:45:04 PM	Peak Integrated by Software incorrectly
VSTDICC0.1	VL042353.D	Trichloroethene	SAM	4/18/2025	MMDadoda	4/18/2025 10:45:04 PM	Peak Integrate

				4:20:37 PM			d by Software incorrectly
VSTDICC0.03	VL042354.D	1,1,1-Trichloroethane	SAM	4/18/2025 4:19:24 PM	MMDadoda	4/18/2025 10:45:02 PM	Peak Integrated by Software incorrectly
VSTDICC0.03	VL042354.D	1,1,2,2-Tetrachloroethane	SAM	4/18/2025 4:19:24 PM	MMDadoda	4/18/2025 10:45:02 PM	Peak Integrated by Software incorrectly
VSTDICC0.03	VL042354.D	Carbon Tetrachloride	SAM	4/18/2025 4:19:24 PM	MMDadoda	4/18/2025 10:45:02 PM	Peak Integrated by Software incorrectly
VSTDICC0.03	VL042354.D	Tetrachloroethene	SAM	4/18/2025 4:19:24 PM	MMDadoda	4/18/2025 10:45:02 PM	Peak Integrated by Software incorrectly
VSTDICC0.03	VL042354.D	Trichloroethene	SAM	4/18/2025 4:19:24 PM	MMDadoda	4/18/2025 10:45:02 PM	Peak Integrated by Software incorrectly
VSTDICC015	VL042355.D	m/p-Xylene	SAM	4/18/2025 4:21:35 PM	MMDadoda	4/18/2025 10:44:59 PM	Peak Integrated by Software incorrectly
VSTDICV010	VL042356.D	m/p-Xylene	SAM	4/18/2025 4:20:42 PM	MMDadoda	4/18/2025 10:44:57 PM	Peak Integrated by Software incorrectly

VL0417ABS01	VL042358.D	m/p-Xylene	SAM	4/18/2025 4:21:39 PM	MMDadoda	4/18/2025 10:44:55 PM	Peak Integrated by Software incorrectly
Q1668-01	VL042361.D	Carbon Tetrachloride	SAM	4/18/2025 4:19:29 PM	MMDadoda	4/18/2025 10:44:40 PM	Peak Integrated by Software incorrectl

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Q1668-01	VL042361.D	Chlorodifluoromethane	SAM	4/18/2025 4:19:29 PM	MMDadoda	4/18/2025 10:44:40 PM	Peak Integrated by Software incorrectly
Q1668-01	VL042361.D	Tetrachloroethene	SAM	4/18/2025 4:19:29 PM	MMDadoda	4/18/2025 10:44:40 PM	Peak Integrated by Software incorrectly
Q1668-01DUP	VL042362.D	2,2,4-Trimethylpentane	SAM	4/18/2025 4:22:32 PM	MMDadoda	4/18/2025 10:44:37 PM	Peak Integrated by Software incorrectly
Q1668-01DUP	VL042362.D	Carbon Tetrachloride	SAM	4/18/2025 4:22:32 PM	MMDadoda	4/18/2025 10:44:37 PM	Peak Integrated by Software incorrectly
Q1668-01DUP	VL042362.D	Chlorodifluoromethane	SAM	4/18/2025 4:22:32 PM	MMDadoda	4/18/2025 10:44:37 PM	Peak Integrated by Software incorrectly
Q1668-01DUP	VL042362.D	Naphthalene,2-methyl-	SAM	4/18/2025 4:22:32 PM	MMDadoda	4/18/2025 10:44:37 PM	Peak Integrated by Software incorrectly
Q1668-01DUP	VL042362.D	Tetrachloroethene	SAM	4/18/2025 4:22:32 PM	MMDadoda	4/18/2025 10:44:37 PM	Peak Integrated by Software incorrectly
Q1668-03	VL042363.D	2,2,4-Trimethylpentane	SAM	4/18/2025 4:20:55 PM	MMDadoda	4/18/2025 10:44:34 PM	Peak Integrated by Software incorrectly
Q1668-03	VL042363.D	Carbon Tetrachloride	SAM	4/18/2025 4:20:55 PM	MMDadoda	4/18/2025 10:44:34 PM	Peak Integrated by Software incorrectly
Q1668-03	VL042363.	Chlorodifluoromethan	SA	4/18/202	MMDadod	4/18/202	Peak

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	D	e	M	5 4:20:55 PM	a	5 10:44:34 PM	Integrated by Software incorrectly
Q1668-03	VL042363.D	Cyclohexane	SAM	4/18/2025 4:20:55 PM	MMDadoda	4/18/2025 10:44:34 PM	Peak Integrated by Software incorrectly
Q1668-03	VL042363.D	n-Butylbenzene	SAM	4/18/2025 4:20:55 PM	MMDadoda	4/18/2025 10:44:34 PM	Peak Integrated by Software incorrectly
Q1668-03	VL042363.D	n-propylbenzene	SAM	4/18/2025 4:20:55 PM	MMDadoda	4/18/2025 10:44:34 PM	Peak Integrated by Software incorrectly
Q1668-03	VL042363.D	Naphthalene,2-methyl-	SAM	4/18/2025 4:20:55 PM	MMDadoda	4/18/2025 10:44:34 PM	Peak Integrated by Software incorrectly
Q1668-03	VL042363.D	Tetrachloroethene	SAM	4/18/2025 4:20:55 PM	MMDadoda	4/18/2025 10:44:34 PM	Peak Integrated by Software incorrectly
Q1668-03	VL042363.D	Trichloroethene	SAM	4/18/2025 4:20:55 PM	MMDadoda	4/18/2025 10:44:34 PM	Peak Integrated by Software incorrectly
Q1668-04	VL042364.D	2,2,4-Trimethylpentane	SAM	4/18/2025 4:21:00 PM	MMDadoda	4/18/2025 10:45:48 PM	Peak Integrated by Software incorrectly
Q1668-04	VL042364.D	Carbon Tetrachloride	SAM	4/18/2025 4:21:00 PM	MMDadoda	4/18/2025 10:45:48 PM	Peak Integrated by Software incorrectly
Q1668-04	VL042364.D	Chlorodifluoromethane	SAM	4/18/2025 4:21:00 PM	MMDadoda	4/18/2025 10:45:48	Peak Integrated by

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						PM	Software incorrectly
Q1668-04	VL042364.D	n-Butylbenzene	SAM	4/18/2025 4:21:00 PM	MMDadoda	4/18/2025 10:45:48 PM	Peak Integrated by Software incorrectly
Q1668-04	VL042364.D	Propene	SAM	4/18/2025 4:21:00 PM	MMDadoda	4/18/2025 10:45:48 PM	Peak Integrated by Software incorrectly
Q1668-04	VL042364.D	Tetrachloroethene	SAM	4/18/2025 4:21:00 PM	MMDadoda	4/18/2025 10:45:48 PM	Peak Integrated by Software incorrectly
Q1668-02	VL042365.D	2,2,4-Trimethylpentane	SAM	4/18/2025 4:20:14 PM	MMDadoda	4/18/2025 10:44:31 PM	Peak Integrated by Software incorrectly
Q1668-02	VL042365.D	Benzene	SAM	4/18/2025 4:20:14 PM	MMDadoda	4/18/2025 10:44:31 PM	Peak Integrated by Software incorrectly
Q1668-02	VL042365.D	Carbon Tetrachloride	SAM	4/18/2025 4:20:14 PM	MMDadoda	4/18/2025 10:44:31 PM	Peak Integrated by Software incorrectly
Q1668-02	VL042365.D	Chlorodifluoromethane	SAM	4/18/2025 4:20:14 PM	MMDadoda	4/18/2025 10:44:31 PM	Peak Integrated by Software incorrectly
Q1668-02	VL042365.D	Heptane	SAM	4/18/2025 4:20:14 PM	MMDadoda	4/18/2025 10:44:31 PM	Peak Integrated by Software incorrectly
Q1668-02	VL042365.D	n-Butylbenzene	SAM	4/18/2025 4:20:14 PM	MMDadoda	4/18/2025 10:44:31 PM	Peak Integrated by Software incorrectl

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Q1668-02	VL042365.D	Naphthalene,2-methyl-	SAM	4/18/2025 4:20:14 PM	MMDadoda	4/18/2025 10:44:31 PM	Peak Integrated by Software incorrectly
Q1668-02	VL042365.D	Tetrachloroethene	SAM	4/18/2025 4:20:14 PM	MMDadoda	4/18/2025 10:44:31 PM	Peak Integrated by Software incorrectly
Q1668-02	VL042365.D	Trichlorofluoromethane	SAM	4/18/2025 4:20:14 PM	MMDadoda	4/18/2025 10:44:31 PM	Peak Integrated by Software incorrectly
Q1668-01DL	VL042374.D	2-Butanone	SAM	4/18/2025 4:22:06 PM	MMDadoda	4/18/2025 10:43:55 PM	Peak Integrated by Software incorrectly
Q1668-01DL	VL042374.D	Benzene	SAM	4/18/2025 4:22:06 PM	MMDadoda	4/18/2025 10:43:55 PM	Peak Integrated by Software incorrectly
Q1668-01DL	VL042374.D	Carbon Tetrachloride	SAM	4/18/2025 4:22:06 PM	MMDadoda	4/18/2025 10:43:55 PM	Peak Integrated by Software incorrectly
Q1668-01DL	VL042374.D	Heptane	SAM	4/18/2025 4:22:06 PM	MMDadoda	4/18/2025 10:43:55 PM	Peak Integrated by Software incorrectly
Q1668-01DL	VL042374.D	n-Butylbenzene	SAM	4/18/2025 4:22:06 PM	MMDadoda	4/18/2025 10:43:55 PM	Peak Integrated by Software incorrectly
Q1668-01DL	VL042374.D	Toluene	SAM	4/18/2025 4:22:06 PM	MMDadoda	4/18/2025 10:43:55 PM	Peak Integrated by Software incorrectly
Q1668-03DL	VL042375.	Benzene	SA	4/18/202	MMDadod	4/18/202	Peak

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	D		M	5 4:22:02 PM	a	5 10:43:51 PM	Integrated by Software incorrectly
Q1668-03DL	VL042375.D	n-Butylbenzene	SAM	4/18/2025 4:22:02 PM	MMDadoda	4/18/2025 10:43:51 PM	Peak Integrated by Software incorrectly
Q1668-03DL	VL042375.D	Styrene	SAM	4/18/2025 4:22:02 PM	MMDadoda	4/18/2025 10:43:51 PM	Peak Integrated by Software incorrectly
Q1668-03DL	VL042375.D	Toluene	SAM	4/18/2025 4:22:02 PM	MMDadoda	4/18/2025 10:43:51 PM	Peak Integrated by Software incorrectly

F. Manual Integration Comments:
Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

I certify that the data p ackage is in compliance with the te rms and conditions of the contract, both technically and for com pleteness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature___ APPROVED
By Nimisha Pandya, QA/QC Supervisor at 9:29 am, Jun 25, 2025

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908-789-8900 Fax: 908-789-8922

DATA REPORTING QUALIFIERS- ORGANIC

For reporting results, the following " Results Qualifiers" are used:

Value	If the result is a value greater than or equal to the detection limit, report the value
U	Indicates the compound was analyzed for but was not detected. Report the minimum detection limit for the sample with the U, i.e. "10 U". This is not necessarily the instrument detection limit attainable for this particular sample based on any concentration or dilution that may have been required.
ND	Indicates the analyte was analyzed for, but not detected
J	Indicates an estimated value. This flag is used: (1) When estimating a concentration for a tentatively identified compound (library search hits, where a 1:1 response is assumed.) (2) When the mass spectral data indicated the identification, however the result was less than the specified detection limit greater than zero. If the detection limit was 10ug/L and a concentration of 3 ug/L was calculated report as 3 J. This is flag is used when similar situation arise on any organic parameter i.e. Pest, PCB and others.
B	Indicates the analyte was found in the blank as well as the sample report as "12 B".
E	Indicates the analyte 's concentration exceeds the calibrated range of the instrument for that specific analysis.
D	This flag identifies all compounds identified in an analysis at a secondary dilution factor.
P	This flag is used for Pesticide/PCB target analyte when there is >25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form 1 and flagged with a "P".
N	This flag indicates presumptive evidence of a compound. This is only used for tentatively identified compounds (TICs), where the identification is based on a mass spectral library search. It applies to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the flag is not used.
A	This flag indicates that a Tentatively Identified Compound is a suspected aldol-condensation product.
Q	Indicates the LCS did not meet the control limits requirements

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APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q1668

	Completed
For thorough review, the report must have the following:	
GENERAL:	
Are all original paperwork present (chain of custody, record of communication,airbill, sample management lab chronicle, login page)	✓
Check chain-of-custody for proper relinquish/return of samples	✓
Is the chain of custody signed and complete	✓
Check internal chain-of-custody for proper relinquish/return of samples /sample extracts	✓
Collect information for each project id from server. Were all requirements followed	✓
COVER PAGE:	
Do numbers of samples correspond to the number of samples in the Chain of Custody on login page	✓
Do lab numbers and client Ids on cover page agree with the Chain of Custody	✓
CHAIN OF CUSTODY:	
Do requested analyses on Chain of Custody agree with form I results	✓
Do requested analyses on Chain of Custody agree with the log-in page	✓
Were the correct method log-in for analysis according to the Analytical Request and Chain of Castody	✓
Were the samples received within hold time	✓
Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle	✓
ANALYTICAL:	
Was method requirement followed?	✓
Was client requirement followed?	✓
Does the case narrative summarize all QC failure?	✓
All runlogs and manual integration are reviewed for requirements	✓
All manual calculations and /or hand notations verified	✓

QA Review Signature: SOHIL JODHANI **Date:** 04/21/2025

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LAB CHRONICLE

OrderID:	Q1668	**OrderDate:**	3/27/2025 2:00:00 PM
Client:	Woodard & Curran	**Project:**	US EPA Riverside Industrial Park Superfund Site
Contact:	Bryan Maurer	**Location:**	Air Lab

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1668-01	**IA-B1-4-3252025**	**Air**			**03/26/25**			**03/27/25**
			TO-15	TO-15			04/17/25	
Q1668-01DL	**IA-B1-4-3252025DL**	**Air**			**03/26/25**			**03/27/25**
			TO-15	TO-15			04/18/25	
Q1668-02	**IA-B1-2-3252025**	**Air**			**03/26/25**			**03/27/25**
			TO-15	TO-15			04/17/25	
Q1668-03	**IA-B1-3-3252025**	**Air**			**03/26/25**			**03/27/25**
			TO-15	TO-15			04/17/25	
Q1668-03DL	**IA-B1-3-3252025DL**	**Air**			**03/26/25**			**03/27/25**
			TO-15	TO-15			04/18/25	
Q1668-04	**IA-B1-1-3252025**	**Air**			**03/26/25**			**03/27/25**
			TO-15	TO-15			04/17/25	

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Hit Summary Sheet
SW-846

SDG No.: Q1668

Client: Woodard & Curran

Sample ID	Client ID	Matrix	Parameter		Concentration	C	MDL	RDL	Units
Client ID:	**IA-B1-4-3252025**								
Q1668-01	IA-B1-4-3252025	Air	Dichlorodifluoromethane		2.27	J	1.04	2.47	ug/m3
Q1668-01	IA-B1-4-3252025	Air	Chloromethane		1.09		0.21	1.03	ug/m3
Q1668-01	IA-B1-4-3252025	Air	Trichlorofluoromethane		1.35	J	0.90	2.81	ug/m3
Q1668-01	IA-B1-4-3252025	Air	Heptane		7.79		0.45	2.05	ug/m3
Q1668-01	IA-B1-4-3252025	Air	Acetone		12.6		0.57	1.19	ug/m3
Q1668-01	IA-B1-4-3252025	Air	Carbon Disulfide		1.96		0.50	1.56	ug/m3
Q1668-01	IA-B1-4-3252025	Air	Methylene Chloride		9.73		0.66	1.74	ug/m3
Q1668-01	IA-B1-4-3252025	Air	Cyclohexane		11.4		0.76	1.72	ug/m3
Q1668-01	IA-B1-4-3252025	Air	2-Butanone		2.04		0.35	1.47	ug/m3
Q1668-01	IA-B1-4-3252025	Air	Carbon Tetrachloride		0.50		0.060	0.19	ug/m3
Q1668-01	IA-B1-4-3252025	Air	2,2,4-Trimethylpentane		0.89	J	0.47	2.34	ug/m3
Q1668-01	IA-B1-4-3252025	Air	Benzene		1.79		0.29	1.60	ug/m3
Q1668-01	IA-B1-4-3252025	Air	4-Methyl-2-Pentanone		80.3	E	0.37	2.05	ug/m3
Q1668-01	IA-B1-4-3252025	Air	Toluene		6.03		0.41	1.88	ug/m3
Q1668-01	IA-B1-4-3252025	Air	Tetrachloroethene		0.34		0.14	0.20	ug/m3
Q1668-01	IA-B1-4-3252025	Air	Ethyl Benzene		4.08		0.52	2.17	ug/m3
Q1668-01	IA-B1-4-3252025	Air	m/p-Xylene		40.8		0.91	4.34	ug/m3
Q1668-01	IA-B1-4-3252025	Air	o-Xylene		8.69		0.52	2.17	ug/m3
Q1668-01	IA-B1-4-3252025	Air	Styrene		6.81		0.47	2.13	ug/m3
Q1668-01	IA-B1-4-3252025	Air	1,3,5-Trimethylbenzene		6.39		0.54	2.46	ug/m3
Q1668-01	IA-B1-4-3252025	Air	1,2,4-Trimethylbenzene		18.7		0.39	2.46	ug/m3
Q1668-01	IA-B1-4-3252025	Air	Naphthalene		3.15		0.42	0.52	ug/m3
Q1668-01	IA-B1-4-3252025	Air	4-Ethyltoluene		4.92		0.59	2.46	ug/m3
Q1668-01	IA-B1-4-3252025	Air	Hexane		10.6		0.39	1.76	ug/m3
			Total Voc :		244				
Q1668-01	IA-B1-4-3252025	Air	Cyclopentane, methyl-	*	2.50	J	0	0	ppbv
Q1668-01	IA-B1-4-3252025	Air	Pentane, 2-methyl-	*	2.00	J	0	0	ppbv
Q1668-01	IA-B1-4-3252025	Air	Cyclohexane, methyl-	*	2.50	J	0	0	ppbv
Q1668-01	IA-B1-4-3252025	Air	Cyclohexanone	*	4.40	J	0	0	ppbv
Q1668-01	IA-B1-4-3252025	Air	Decane	*	3.60	J	0	0	ppbv
Q1668-01	IA-B1-4-3252025	Air	Hexane, 3-methyl-	*	3.90	J	0	0	ppbv
Q1668-01	IA-B1-4-3252025	Air	Hexane, 2-methyl-	*	3.10	J	0	0	ppbv
Q1668-01	IA-B1-4-3252025	Air	Undecane	*	2.40	J	0	0	ppbv
Q1668-01	IA-B1-4-3252025	Air	Benzene, 2-ethyl-1,3-dimethyl-	*	2.00	J	0	0	ppbv
Q1668-01	IA-B1-4-3252025	Air	Heptane, 2,2,4,6,6-pentamethyl	*	2.20	J	0	0	ppbv

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Hit Summary Sheet
SW-846

SDG No.: Q1668

Client: Woodard & Curran

Sample ID	Client ID	Matrix	Parameter		Concentration	C	MDL	RDL	Units
Q1668-01	IA-B1-4-3252025	Air	Chlorodifluoromethane	*	0.30	J	0.090	0.50	ppbv
Q1668-01	IA-B1-4-3252025	Air	Naphthalene,2-methyl-	*	0.25	J	0.15	0.50	ppbv
Q1668-01	IA-B1-4-3252025	Air	Propene	*	0.62	J	0.15	0.50	ppbv
Q1668-01	IA-B1-4-3252025	Air	Isopropylbenzene	*	0.15	J	0.090	0.50	ppbv
Q1668-01	IA-B1-4-3252025	Air	n-propylbenzene	*	0.53	J	0.080	0.50	ppbv
Q1668-01	IA-B1-4-3252025	Air	p-Isopropyltoluene	*	0.16	J	0.090	0.50	ppbv
Q1668-01	IA-B1-4-3252025	Air	n-Butylbenzene	*	0.35	J	0.080	0.50	ppbv
			Total Tics :		31.0				
			Total Concentration:		275				
Client ID:	**IA-B1-4-3252025DL**								
Q1668-01DL	IA-B1-4-3252025D	Air	Chloromethane		1.63	JD	0.81	4.13	ug/m3
Q1668-01DL	IA-B1-4-3252025D	Air	Heptane		9.02	D	1.80	8.20	ug/m3
Q1668-01DL	IA-B1-4-3252025D	Air	Acetone		15.7	D	2.28	4.75	ug/m3
Q1668-01DL	IA-B1-4-3252025D	Air	Methylene Chloride		17.0	D	2.64	6.95	ug/m3
Q1668-01DL	IA-B1-4-3252025D	Air	Cyclohexane		13.4	D	3.03	6.88	ug/m3
Q1668-01DL	IA-B1-4-3252025D	Air	2-Butanone		2.65	JD	1.42	5.90	ug/m3
Q1668-01DL	IA-B1-4-3252025D	Air	Benzene		2.20	JD	1.12	6.39	ug/m3
Q1668-01DL	IA-B1-4-3252025D	Air	4-Methyl-2-Pentanone		84.8	D	1.52	8.20	ug/m3
Q1668-01DL	IA-B1-4-3252025D	Air	Toluene		6.78	JD	1.66	7.54	ug/m3
Q1668-01DL	IA-B1-4-3252025D	Air	Ethyl Benzene		4.34	JD	2.08	8.69	ug/m3
Q1668-01DL	IA-B1-4-3252025D	Air	m/p-Xylene		43.9	D	3.65	17.4	ug/m3
Q1668-01DL	IA-B1-4-3252025D	Air	o-Xylene		9.12	D	2.08	8.69	ug/m3
Q1668-01DL	IA-B1-4-3252025D	Air	Styrene		7.24	JD	1.87	8.52	ug/m3
Q1668-01DL	IA-B1-4-3252025D	Air	1,3,5-Trimethylbenzene		6.39	JD	2.16	9.83	ug/m3
Q1668-01DL	IA-B1-4-3252025D	Air	1,2,4-Trimethylbenzene		20.6	D	1.52	9.83	ug/m3
Q1668-01DL	IA-B1-4-3252025D	Air	Naphthalene		3.20	D	1.57	2.10	ug/m3
Q1668-01DL	IA-B1-4-3252025D	Air	4-Ethyltoluene		5.90	JD	2.36	9.83	ug/m3
Q1668-01DL	IA-B1-4-3252025D	Air	Hexane		14.8	D	1.55	7.05	ug/m3
			Total Voc :		269				
			Total Concentration:		269				
Client ID:	**IA-B1-2-3252025**								
Q1668-02	IA-B1-2-3252025	Air	Dichlorodifluoromethane		2.18	J	1.04	2.47	ug/m3
Q1668-02	IA-B1-2-3252025	Air	Chloromethane		1.09		0.21	1.03	ug/m3
Q1668-02	IA-B1-2-3252025	Air	Trichlorofluoromethane		1.24	J	0.90	2.81	ug/m3
Q1668-02	IA-B1-2-3252025	Air	tert-Butyl alcohol		0.67	J	0.58	1.52	ug/m3
Q1668-02	IA-B1-2-3252025	Air	Heptane		5.33		0.45	2.05	ug/m3
Q1668-02	IA-B1-2-3252025	Air	Acetone		12.8		0.57	1.19	ug/m3

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Hit Summary Sheet
SW-846

SDG No.: Q1668

Client: Woodard & Curran

Sample ID	Client ID	Matrix	Parameter		Concentration	C	MDL	RDL	Units
Q1668-02	IA-B1-2-3252025	Air	Methylene Chloride		4.86		0.66	1.74	ug/m3
Q1668-02	IA-B1-2-3252025	Air	Cyclohexane		3.79		0.76	1.72	ug/m3
Q1668-02	IA-B1-2-3252025	Air	2-Butanone		1.71		0.35	1.47	ug/m3
Q1668-02	IA-B1-2-3252025	Air	Carbon Tetrachloride		0.44		0.060	0.19	ug/m3
Q1668-02	IA-B1-2-3252025	Air	2,2,4-Trimethylpentane		1.03	J	0.47	2.34	ug/m3
Q1668-02	IA-B1-2-3252025	Air	Benzene		1.66		0.29	1.60	ug/m3
Q1668-02	IA-B1-2-3252025	Air	4-Methyl-2-Pentanone		48.0		0.37	2.05	ug/m3
Q1668-02	IA-B1-2-3252025	Air	Toluene		5.28		0.41	1.88	ug/m3
Q1668-02	IA-B1-2-3252025	Air	Tetrachloroethene		0.20		0.14	0.20	ug/m3
Q1668-02	IA-B1-2-3252025	Air	Ethyl Benzene		4.13		0.52	2.17	ug/m3
Q1668-02	IA-B1-2-3252025	Air	m/p-Xylene		25.6		0.91	4.34	ug/m3
Q1668-02	IA-B1-2-3252025	Air	o-Xylene		9.99		0.52	2.17	ug/m3
Q1668-02	IA-B1-2-3252025	Air	Styrene		2.00	J	0.47	2.13	ug/m3
Q1668-02	IA-B1-2-3252025	Air	1,3,5-Trimethylbenzene		8.85		0.54	2.46	ug/m3
Q1668-02	IA-B1-2-3252025	Air	1,2,4-Trimethylbenzene		26.6		0.39	2.46	ug/m3
Q1668-02	IA-B1-2-3252025	Air	Naphthalene		2.46		0.42	0.52	ug/m3
Q1668-02	IA-B1-2-3252025	Air	4-Ethyltoluene		6.39		0.59	2.46	ug/m3
Q1668-02	IA-B1-2-3252025	Air	Hexane		9.52		0.39	1.76	ug/m3
			Total Voc :		186				
Q1668-02	IA-B1-2-3252025	Air	Dodecane	*	3.40	J	0	0	ppbv
Q1668-02	IA-B1-2-3252025	Air	Naphthalene, 1,2,3,4-tetrahydrc	*	2.70	J	0	0	ppbv
Q1668-02	IA-B1-2-3252025	Air	Decane	*	3.80	J	0	0	ppbv
Q1668-02	IA-B1-2-3252025	Air	Hexane, 3-methyl-	*	3.10	J	0	0	ppbv
Q1668-02	IA-B1-2-3252025	Air	Tridecane	*	3.40	J	0	0	ppbv
Q1668-02	IA-B1-2-3252025	Air	Benzene, 4-ethyl-1,2-dimethyl-	*	3.50	J	0	0	ppbv
Q1668-02	IA-B1-2-3252025	Air	Undecane	*	2.90	J	0	0	ppbv
Q1668-02	IA-B1-2-3252025	Air	Naphthalene, 1,2,3,4-tetrahydrc	*	3.60	J	0	0	ppbv
Q1668-02	IA-B1-2-3252025	Air	Benzene, 1-ethenyl-4-ethyl-	*	2.60	J	0	0	ppbv
Q1668-02	IA-B1-2-3252025	Air	Benzene, (1-methyl-1-butenyl)-	*	3.10	J	0	0	ppbv
Q1668-02	IA-B1-2-3252025	Air	Chlorodifluoromethane	*	0.26	J	0.090	0.50	ppbv
Q1668-02	IA-B1-2-3252025	Air	Naphthalene,2-methyl-	*	0.59	J	0.15	0.50	ppbv
Q1668-02	IA-B1-2-3252025	Air	Propene	*	0.64	J	0.15	0.50	ppbv
Q1668-02	IA-B1-2-3252025	Air	Isopropylbenzene	*	0.15	J	0.090	0.50	ppbv
Q1668-02	IA-B1-2-3252025	Air	n-propylbenzene	*	0.63	J	0.080	0.50	ppbv
Q1668-02	IA-B1-2-3252025	Air	n-Butylbenzene	*	0.54	J	0.080	0.50	ppbv
			Total Tics :		34.9				
			Total Concentration:		221				

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Hit Summary Sheet
SW-846

SDG No.: Q1668

Client: Woodard & Curran

Sample ID	Client ID	Matrix	Parameter		Concentration	C	MDL	RDL	Units
Client ID:	**IA-B1-3-3252025**								
Q1668-03	IA-B1-3-3252025	Air	Dichlorodifluoromethane		2.18	J	1.04	2.47	ug/m3
Q1668-03	IA-B1-3-3252025	Air	Chloromethane		1.24		0.21	1.03	ug/m3
Q1668-03	IA-B1-3-3252025	Air	Trichlorofluoromethane		1.24	J	0.90	2.81	ug/m3
Q1668-03	IA-B1-3-3252025	Air	Heptane		6.15		0.45	2.05	ug/m3
Q1668-03	IA-B1-3-3252025	Air	Acetone		12.3		0.57	1.19	ug/m3
Q1668-03	IA-B1-3-3252025	Air	Methylene Chloride		2.85		0.66	1.74	ug/m3
Q1668-03	IA-B1-3-3252025	Air	Cyclohexane		5.85		0.76	1.72	ug/m3
Q1668-03	IA-B1-3-3252025	Air	2-Butanone		2.27		0.35	1.47	ug/m3
Q1668-03	IA-B1-3-3252025	Air	Carbon Tetrachloride		0.44		0.060	0.19	ug/m3
Q1668-03	IA-B1-3-3252025	Air	2,2,4-Trimethylpentane		0.75	J	0.47	2.34	ug/m3
Q1668-03	IA-B1-3-3252025	Air	Benzene		1.82		0.29	1.60	ug/m3
Q1668-03	IA-B1-3-3252025	Air	Trichloroethene		0.16		0.11	0.16	ug/m3
Q1668-03	IA-B1-3-3252025	Air	4-Methyl-2-Pentanone		62.7	E	0.37	2.05	ug/m3
Q1668-03	IA-B1-3-3252025	Air	Toluene		5.28		0.41	1.88	ug/m3
Q1668-03	IA-B1-3-3252025	Air	Tetrachloroethene		0.34		0.14	0.20	ug/m3
Q1668-03	IA-B1-3-3252025	Air	Ethyl Benzene		4.78		0.52	2.17	ug/m3
Q1668-03	IA-B1-3-3252025	Air	m/p-Xylene		33.5		0.91	4.34	ug/m3
Q1668-03	IA-B1-3-3252025	Air	o-Xylene		11.3		0.52	2.17	ug/m3
Q1668-03	IA-B1-3-3252025	Air	Styrene		3.36		0.47	2.13	ug/m3
Q1668-03	IA-B1-3-3252025	Air	1,3,5-Trimethylbenzene		8.36		0.54	2.46	ug/m3
Q1668-03	IA-B1-3-3252025	Air	1,2,4-Trimethylbenzene		25.6		0.39	2.46	ug/m3
Q1668-03	IA-B1-3-3252025	Air	Naphthalene		2.46		0.42	0.52	ug/m3
Q1668-03	IA-B1-3-3252025	Air	4-Ethyltoluene		6.88		0.59	2.46	ug/m3
Q1668-03	IA-B1-3-3252025	Air	Hexane		8.46		0.39	1.76	ug/m3
			Total Voc :		210				
Q1668-03	IA-B1-3-3252025	Air	Pentane, 2,4-dimethyl-	*	2.40	J	0	0	ppbv
Q1668-03	IA-B1-3-3252025	Air	Cyclohexanone	*	3.00	J	0	0	ppbv
Q1668-03	IA-B1-3-3252025	Air	Dodecane	*	2.10	J	0	0	ppbv
Q1668-03	IA-B1-3-3252025	Air	Naphthalene, 1,2,3,4-tetrahydrc	*	1.90	J	0	0	ppbv
Q1668-03	IA-B1-3-3252025	Air	Decane	*	3.60	J	0	0	ppbv
Q1668-03	IA-B1-3-3252025	Air	Hexane, 3-methyl-	*	3.10	J	0	0	ppbv
Q1668-03	IA-B1-3-3252025	Air	Benzene, 1-methyl-3-propyl-	*	1.90	J	0	0	ppbv
Q1668-03	IA-B1-3-3252025	Air	Undecane	*	2.30	J	0	0	ppbv
Q1668-03	IA-B1-3-3252025	Air	Benzene, 2-ethyl-1,3-dimethyl-	*	2.70	J	0	0	ppbv
Q1668-03	IA-B1-3-3252025	Air	Octane, 2-methyl-	*	2.10	J	0	0	ppbv
Q1668-03	IA-B1-3-3252025	Air	Chlorodifluoromethane	*	0.26	J	0.090	0.50	ppbv

Alliance TECHNICAL GROUP
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Hit Summary Sheet
SW-846

SDG No.: Q1668

Client: Woodard & Curran

Sample ID	Client ID	Matrix	Parameter		Concentration	C	MDL	RDL	Units
Q1668-03	IA-B1-3-3252025	Air	Naphthalene,2-methyl-	*	0.32	J	0.15	0.50	ppbv
Q1668-03	IA-B1-3-3252025	Air	Propene	*	0.56	J	0.15	0.50	ppbv
Q1668-03	IA-B1-3-3252025	Air	Isopropylbenzene	*	0.16	J	0.090	0.50	ppbv
Q1668-03	IA-B1-3-3252025	Air	n-propylbenzene	*	0.62	J	0.080	0.50	ppbv
Q1668-03	IA-B1-3-3252025	Air	p-Isopropyltoluene	*	0.12	J	0.090	0.50	ppbv
Q1668-03	IA-B1-3-3252025	Air	n-Butylbenzene	*	0.45	J	0.080	0.50	ppbv
			Total Tics :		27.6				
			Total Concentration:		238				
Client ID:	**IA-B1-3-3252025DL**								
Q1668-03DL	IA-B1-3-3252025D	Air	Chloromethane		1.61	JD	0.81	4.13	ug/m3
Q1668-03DL	IA-B1-3-3252025D	Air	Heptane		6.97	JD	1.80	8.20	ug/m3
Q1668-03DL	IA-B1-3-3252025D	Air	Acetone		15.2	D	2.28	4.75	ug/m3
Q1668-03DL	IA-B1-3-3252025D	Air	Methylene Chloride		9.03	D	2.64	6.95	ug/m3
Q1668-03DL	IA-B1-3-3252025D	Air	Cyclohexane		6.54	JD	3.03	6.88	ug/m3
Q1668-03DL	IA-B1-3-3252025D	Air	2-Butanone		2.48	JD	1.42	5.90	ug/m3
Q1668-03DL	IA-B1-3-3252025D	Air	Benzene		2.14	JD	1.12	6.39	ug/m3
Q1668-03DL	IA-B1-3-3252025D	Air	4-Methyl-2-Pentanone		65.6	D	1.52	8.20	ug/m3
Q1668-03DL	IA-B1-3-3252025D	Air	Toluene		5.65	JD	1.66	7.54	ug/m3
Q1668-03DL	IA-B1-3-3252025D	Air	Ethyl Benzene		5.21	JD	2.08	8.69	ug/m3
Q1668-03DL	IA-B1-3-3252025D	Air	m/p-Xylene		36.5	D	3.65	17.4	ug/m3
Q1668-03DL	IA-B1-3-3252025D	Air	o-Xylene		12.2	D	2.08	8.69	ug/m3
Q1668-03DL	IA-B1-3-3252025D	Air	Styrene		3.53	JD	1.87	8.52	ug/m3
Q1668-03DL	IA-B1-3-3252025D	Air	1,3,5-Trimethylbenzene		9.34	JD	2.16	9.83	ug/m3
Q1668-03DL	IA-B1-3-3252025D	Air	1,2,4-Trimethylbenzene		28.0	D	1.52	9.83	ug/m3
Q1668-03DL	IA-B1-3-3252025D	Air	Naphthalene		2.10	D	1.57	2.10	ug/m3
Q1668-03DL	IA-B1-3-3252025D	Air	4-Ethyltoluene		6.88	JD	2.36	9.83	ug/m3
Q1668-03DL	IA-B1-3-3252025D	Air	Hexane		11.3	D	1.55	7.05	ug/m3
			Total Voc :		230				
			Total Concentration:		230				
Client ID:	**IA-B1-1-3252025**								
Q1668-04	IA-B1-1-3252025	Air	Dichlorodifluoromethane		2.37	J	1.04	2.47	ug/m3
Q1668-04	IA-B1-1-3252025	Air	Chloromethane		1.38		0.21	1.03	ug/m3
Q1668-04	IA-B1-1-3252025	Air	Trichlorofluoromethane		1.35	J	0.90	2.81	ug/m3
Q1668-04	IA-B1-1-3252025	Air	tert-Butyl alcohol		1.09	J	0.58	1.52	ug/m3
Q1668-04	IA-B1-1-3252025	Air	Heptane		7.79		0.45	2.05	ug/m3
Q1668-04	IA-B1-1-3252025	Air	Acetone		17.3		0.57	1.19	ug/m3
Q1668-04	IA-B1-1-3252025	Air	Methylene Chloride		18.1		0.66	1.74	ug/m3

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Hit Summary Sheet
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SDG No.: Q1668

Client: Woodard & Curran

Sample ID	Client ID	Matrix	Parameter		Concentration	C	MDL	RDL	Units
Q1668-04	IA-B1-1-3252025	Air	Cyclohexane		6.20		0.76	1.72	ug/m3
Q1668-04	IA-B1-1-3252025	Air	2-Butanone		2.45		0.35	1.47	ug/m3
Q1668-04	IA-B1-1-3252025	Air	Carbon Tetrachloride		0.44		0.060	0.19	ug/m3
Q1668-04	IA-B1-1-3252025	Air	2,2,4-Trimethylpentane		1.73	J	0.47	2.34	ug/m3
Q1668-04	IA-B1-1-3252025	Air	Benzene		2.46		0.29	1.60	ug/m3
Q1668-04	IA-B1-1-3252025	Air	4-Methyl-2-Pentanone		40.2		0.37	2.05	ug/m3
Q1668-04	IA-B1-1-3252025	Air	Toluene		10.2		0.41	1.88	ug/m3
Q1668-04	IA-B1-1-3252025	Air	Tetrachloroethene		0.34		0.14	0.20	ug/m3
Q1668-04	IA-B1-1-3252025	Air	Ethyl Benzene		11.3		0.52	2.17	ug/m3
Q1668-04	IA-B1-1-3252025	Air	m/p-Xylene		63.4		0.91	4.34	ug/m3
Q1668-04	IA-B1-1-3252025	Air	o-Xylene		26.9		0.52	2.17	ug/m3
Q1668-04	IA-B1-1-3252025	Air	Styrene		2.60		0.47	2.13	ug/m3
Q1668-04	IA-B1-1-3252025	Air	1,3,5-Trimethylbenzene		19.7		0.54	2.46	ug/m3
Q1668-04	IA-B1-1-3252025	Air	1,2,4-Trimethylbenzene		56.0		0.39	2.46	ug/m3
Q1668-04	IA-B1-1-3252025	Air	Naphthalene		2.57		0.42	0.52	ug/m3
Q1668-04	IA-B1-1-3252025	Air	4-Ethyltoluene		15.7		0.59	2.46	ug/m3
Q1668-04	IA-B1-1-3252025	Air	Hexane		16.9		0.39	1.76	ug/m3
			Total Voc :		328				
Q1668-04	IA-B1-1-3252025	Air	Dodecane	*	3.70	J	0	0	ppbv
Q1668-04	IA-B1-1-3252025	Air	Naphthalene, 1,2,3,4-tetrahydrc	*	4.50	J	0	0	ppbv
Q1668-04	IA-B1-1-3252025	Air	Indane	*	3.60	J	0	0	ppbv
Q1668-04	IA-B1-1-3252025	Air	Hexane, 3-methyl-	*	4.20	J	0	0	ppbv
Q1668-04	IA-B1-1-3252025	Air	1-Phenyl-1-butene	*	3.90	J	0	0	ppbv
Q1668-04	IA-B1-1-3252025	Air	Benzene, 1-ethyl-2,3-dimethyl-	*	5.60	J	0	0	ppbv
Q1668-04	IA-B1-1-3252025	Air	Benzene, 1-methyl-3-propyl-	*	3.90	J	0	0	ppbv
Q1668-04	IA-B1-1-3252025	Air	Undecane	*	4.70	J	0	0	ppbv
Q1668-04	IA-B1-1-3252025	Air	Naphthalene, 1,2,3,4-tetrahydrc	*	3.40	J	0	0	ppbv
Q1668-04	IA-B1-1-3252025	Air	Octane, 2-methyl-	*	5.10	J	0	0	ppbv
Q1668-04	IA-B1-1-3252025	Air	Chlorodifluoromethane	*	0.28	J	0.090	0.50	ppbv
Q1668-04	IA-B1-1-3252025	Air	Naphthalene,2-methyl-	*	0.34	J	0.15	0.50	ppbv
Q1668-04	IA-B1-1-3252025	Air	Propene	*	0.82	J	0.15	0.50	ppbv
Q1668-04	IA-B1-1-3252025	Air	Isopropylbenzene	*	0.36	J	0.090	0.50	ppbv
Q1668-04	IA-B1-1-3252025	Air	n-propylbenzene	*	1.50	J	0.080	0.50	ppbv
Q1668-04	IA-B1-1-3252025	Air	sec-Butylbenzene	*	0.20	J	0.090	0.50	ppbv
Q1668-04	IA-B1-1-3252025	Air	p-Isopropyltoluene	*	0.17	J	0.090	0.50	ppbv
Q1668-04	IA-B1-1-3252025	Air	n-Butylbenzene	*	0.98	J	0.080	0.50	ppbv

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Hit Summary Sheet
SW-846

SDG No.: Q1668

Client: Woodard & Curran

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
			Total Tics :	47.3				
			Total Concentration:	376				

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Project : US EPA Riverside Industrial Park Superfund Site

Sampling Date : 03/26/25

Field Id Number : IA-B1-4-3252025

Analysis Date : 04/17/25

Laboratory Id Number : Q1668-01

Target Analyts : Air Results

Chemical	Cas Number	Molecular Weight	Insert Results in PPBV	Qualifier	Generate Results in ug/m3	QAS Decision	Foot Notes
Dichlorodifluoromethane	75-71-8	120.9	0.46	J	2.27		
Chloromethane	74-87-3	50.49	0.53		1.09		
Vinyl Chloride	75-01-4	62.5	0.01	U	0.03		
Bromomethane	74-83-9	94.94	0.14	U	0.54		
Chloroethane	75-00-3	64.52	0.17	U	0.45		
Tetrahydrofuran	109-99-9	72.11	0.13	U	0.38		
Trichlorofluoromethane	75-69-4	137.4	0.24	J	1.35		
Dichlorotetrafluoroethane	76-14-2	170.9	0.09	U	0.63		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	0.16	U	1.23		
tert-Butyl alcohol	75-65-0	74.12	0.19	U	0.58		
Heptane	142-82-5	100.2	1.9		7.79		
1,1-Dichloroethene	75-35-4	96.94	0.14	U	0.56		
Acetone	67-64-1	58.08	5.3		12.6		
Carbon Disulfide	75-15-0	76.14	0.63		1.96		
Methyl tert-Butyl Ether	1634-04-4	88.15	0.12	U	0.43		
Methylene Chloride	75-09-2	84.94	2.8		9.73		
trans-1,2-Dichloroethene	156-60-5	96.94	0.19	U	0.75		
1,1-Dichloroethane	75-34-3	98.96	0.13	U	0.53		
Cyclohexane	110-82-7	84.16	3.3		11.4		
2-Butanone	78-93-3	72.11	0.69		2.04		
Carbon Tetrachloride	56-23-5	153.8	0.08		0.5		
cis-1,2-Dichloroethene	156-59-2	96.94	0.09	U	0.36		
Chloroform	67-66-3	119.4	0.08	U	0.39		
1,1,1-Trichloroethane	71-55-6	133.4	0.01	U	0.05		
2,2,4-Trimethylpentane	540-84-1	114.2	0.19	J	0.89		
Benzene	71-43-2	78.11	0.56		1.79		
1,2-Dichloroethane	107-06-2	98.96	0.09	U	0.36		
Trichloroethene	79-01-6	131.4	0.02	U	0.11		
1,2-Dichloropropane	78-87-5	113	0.11	U	0.51		
Bromodichloromethane	75-27-4	163.8	0.08	U	0.54		
4-Methyl-2-Pentanone	108-10-1	100.2	19.6	E	80.3		
Toluene	108-88-3	92.14	1.6		6.03		
t-1,3-Dichloropropene	10061-02-6	111	0.06	U	0.27		
cis-1,3-Dichloropropene	10061-01-5	111	0.06	U	0.27		
1,1,2-Trichloroethane	79-00-5	133.4	0.07	U	0.38		

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Project : US EPA Riverside Industrial Park Superfund Site **Sampling Date :** 03/26/25

Field Id Number : IA-B1-4-3252025 **Analysis Date :** 04/17/25

Laboratory Id Number : Q1668-01 **Target Analyts :** Air Results

Dibromochloromethane	124-48-1	208.3	0.07	U	0.6		
1,2-Dibromoethane	106-93-4	187.9	0.07	U	0.54		
Tetrachloroethene	127-18-4	165.8	0.05		0.34		
Chlorobenzene	108-90-7	112.6	0.08	U	0.37		
Ethyl Benzene	100-41-4	106.2	0.94		4.08		
m/p-Xylene	179601-23-1	106.2	9.4		40.8		
o-Xylene	95-47-6	106.2	2		8.69		
Styrene	100-42-5	104.1	1.6		6.81		
Bromoform	75-25-2	252.8	0.06	U	0.62		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	0.01	U	0.07		
2-Chlorotoluene	95-49-8	126.6	0.11	U	0.57		
1,3,5-Trimethylbenzene	108-67-8	120.2	1.3		6.39		
1,2,4-Trimethylbenzene	95-63-6	120.2	3.8		18.7		
1,3-Dichlorobenzene	541-73-1	147	0.08	U	0.48		
1,4-Dichlorobenzene	106-46-7	147	0.05	U	0.3		
1,2-Dichlorobenzene	95-50-1	147	0.08	U	0.48		
1,2,4-Trichlorobenzene	120-82-1	181.5	0.09	U	0.67		
Hexachloro-1,3-Butadiene	87-68-3	260.8	0.09	U	0.96		
Naphthalene	91-20-3	128.17	0.6		3.15		
1,3-Butadiene	106-99-0	54.09	0.13	U	0.29		
4-Ethyltoluene	622-96-8	120.2	1		4.92		
Hexane	110-54-3	86.17	3		10.6		
Allyl Chloride	107-05-1	76.53	0.15	U	0.47		
1,4-Dioxane	123-91-1	88.12	0.21	U	0.76		
Methyl Methacrylate	80-62-6	100.117	0.09	U	0.37		

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Project : US EPA Riverside Industrial Park Superfund Site

Sampling Date : 03/26/25

Field Id Number : IA-B1-4-3252025DL

Analysis Date : 04/18/25

Laboratory Id Number : Q1668-01DL

Target Analyts : Air Results

Chemical	Cas Number	Molecular Weight	Insert Results in PPBV	Qualifier	Generate Results in ug/m3	QAS Decision	Foot Notes
Dichlorodifluoromethane	75-71-8	120.9	0.84	UD	4.15		
Chloromethane	74-87-3	50.49	0.79	JD	1.63		
Vinyl Chloride	75-01-4	62.5	0.06	UD	0.15		
Bromomethane	74-83-9	94.94	0.56	UD	2.17		
Chloroethane	75-00-3	64.52	0.68	UD	1.79		
Tetrahydrofuran	109-99-9	72.11	0.52	UD	1.53		
Trichlorofluoromethane	75-69-4	137.4	0.64	UD	3.6		
Dichlorotetrafluoroethane	76-14-2	170.9	0.35	UD	2.45		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	0.64	UD	4.91		
tert-Butyl alcohol	75-65-0	74.12	0.76	UD	2.3		
Heptane	142-82-5	100.2	2.2	D	9.02		
1,1-Dichloroethene	75-35-4	96.94	0.56	UD	2.22		
Acetone	67-64-1	58.08	6.6	D	15.7		
Carbon Disulfide	75-15-0	76.14	0.64	UD	1.99		
Methyl tert-Butyl Ether	1634-04-4	88.15	0.48	UD	1.73		
Methylene Chloride	75-09-2	84.94	4.9	D	17.0		
trans-1,2-Dichloroethene	156-60-5	96.94	0.76	UD	3.01		
1,1-Dichloroethane	75-34-3	98.96	0.52	UD	2.1		
Cyclohexane	110-82-7	84.16	3.9	D	13.4		
2-Butanone	78-93-3	72.11	0.9	JD	2.65		
Carbon Tetrachloride	56-23-5	153.8	0.04	UD	0.25		
cis-1,2-Dichloroethene	156-59-2	96.94	0.36	UD	1.43		
Chloroform	67-66-3	119.4	0.33	UD	1.61		
1,1,1-Trichloroethane	71-55-6	133.4	0.04	UD	0.22		
2,2,4-Trimethylpentane	540-84-1	114.2	0.4	UD	1.87		
Benzene	71-43-2	78.11	0.69	JD	2.2		
1,2-Dichloroethane	107-06-2	98.96	0.36	UD	1.46		
Trichloroethene	79-01-6	131.4	0.07	UD	0.38		
1,2-Dichloropropane	78-87-5	113	0.44	UD	2.03		
Bromodichloromethane	75-27-4	163.8	0.31	UD	2.08		
4-Methyl-2-Pentanone	108-10-1	100.2	20.7	D	84.8		
Toluene	108-88-3	92.14	1.8	JD	6.78		
t-1,3-Dichloropropene	10061-02-6	111	0.24	UD	1.09		
cis-1,3-Dichloropropene	10061-01-5	111	0.26	UD	1.18		
1,1,2-Trichloroethane	79-00-5	133.4	0.28	UD	1.53		

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Project : US EPA Riverside Industrial Park Superfund Site **Sampling Date :** 03/26/25

Field Id Number : IA-B1-4-3252025DL **Analysis Date :** 04/18/25

Laboratory Id Number : Q1668-01DL **Target Analyts :** Air Results

Dibromochloromethane	124-48-1	208.3	0.26	UD	2.22		
1,2-Dibromoethane	106-93-4	187.9	0.29	UD	2.23		
Tetrachloroethene	127-18-4	165.8	0.06	UD	0.41		
Chlorobenzene	108-90-7	112.6	0.3	UD	1.38		
Ethyl Benzene	100-41-4	106.2	1	JD	4.34		
m/p-Xylene	179601-23-1	106.2	10.1	D	43.9		
o-Xylene	95-47-6	106.2	2.1	D	9.12		
Styrene	100-42-5	104.1	1.7	JD	7.24		
Bromoform	75-25-2	252.8	0.23	UD	2.38		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	0.04	UD	0.27		
2-Chlorotoluene	95-49-8	126.6	0.44	UD	2.28		
1,3,5-Trimethylbenzene	108-67-8	120.2	1.3	JD	6.39		
1,2,4-Trimethylbenzene	95-63-6	120.2	4.2	D	20.6		
1,3-Dichlorobenzene	541-73-1	147	0.32	UD	1.92		
1,4-Dichlorobenzene	106-46-7	147	0.21	UD	1.26		
1,2-Dichlorobenzene	95-50-1	147	0.3	UD	1.8		
1,2,4-Trichlorobenzene	120-82-1	181.5	0.34	UD	2.52		
Hexachloro-1,3-Butadiene	87-68-3	260.8	0.34	UD	3.63		
Naphthalene	91-20-3	128.17	0.61	D	3.2		
1,3-Butadiene	106-99-0	54.09	0.52	UD	1.15		
4-Ethyltoluene	622-96-8	120.2	1.2	JD	5.9		
Hexane	110-54-3	86.17	4.2	D	14.8		
Allyl Chloride	107-05-1	76.53	0.6	UD	1.88		
1,4-Dioxane	123-91-1	88.12	0.84	UD	3.03		
Methyl Methacrylate	80-62-6	100.117	0.34	UD	1.39		

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Project : US EPA Riverside Industrial Park Superfund Site

Sampling Date : 03/26/25

Field Id Number : IA-B1-2-3252025

Analysis Date : 04/17/25

Laboratory Id Number : Q1668-02

Target Analyts : Air Results

Chemical	Cas Number	Molecular Weight	Insert Results in PPBV	Qualifier	Generate Results in ug/m3	QAS Decision	Foot Notes
Dichlorodifluoromethane	75-71-8	120.9	0.44	J	2.18		
Chloromethane	74-87-3	50.49	0.53		1.09		
Vinyl Chloride	75-01-4	62.5	0.01	U	0.03		
Bromomethane	74-83-9	94.94	0.14	U	0.54		
Chloroethane	75-00-3	64.52	0.17	U	0.45		
Tetrahydrofuran	109-99-9	72.11	0.13	U	0.38		
Trichlorofluoromethane	75-69-4	137.4	0.22	J	1.24		
Dichlorotetrafluoroethane	76-14-2	170.9	0.09	U	0.63		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	0.16	U	1.23		
tert-Butyl alcohol	75-65-0	74.12	0.22	J	0.67		
Heptane	142-82-5	100.2	1.3		5.33		
1,1-Dichloroethene	75-35-4	96.94	0.14	U	0.56		
Acetone	67-64-1	58.08	5.4		12.8		
Carbon Disulfide	75-15-0	76.14	0.16	U	0.5		
Methyl tert-Butyl Ether	1634-04-4	88.15	0.12	U	0.43		
Methylene Chloride	75-09-2	84.94	1.4		4.86		
trans-1,2-Dichloroethene	156-60-5	96.94	0.19	U	0.75		
1,1-Dichloroethane	75-34-3	98.96	0.13	U	0.53		
Cyclohexane	110-82-7	84.16	1.1		3.79		
2-Butanone	78-93-3	72.11	0.58		1.71		
Carbon Tetrachloride	56-23-5	153.8	0.07		0.44		
cis-1,2-Dichloroethene	156-59-2	96.94	0.09	U	0.36		
Chloroform	67-66-3	119.4	0.08	U	0.39		
1,1,1-Trichloroethane	71-55-6	133.4	0.01	U	0.05		
2,2,4-Trimethylpentane	540-84-1	114.2	0.22	J	1.03		
Benzene	71-43-2	78.11	0.52		1.66		
1,2-Dichloroethane	107-06-2	98.96	0.09	U	0.36		
Trichloroethene	79-01-6	131.4	0.02	U	0.11		
1,2-Dichloropropane	78-87-5	113	0.11	U	0.51		
Bromodichloromethane	75-27-4	163.8	0.08	U	0.54		
4-Methyl-2-Pentanone	108-10-1	100.2	11.7		48.0		
Toluene	108-88-3	92.14	1.4		5.28		
t-1,3-Dichloropropene	10061-02-6	111	0.06	U	0.27		
cis-1,3-Dichloropropene	10061-01-5	111	0.06	U	0.27		
1,1,2-Trichloroethane	79-00-5	133.4	0.07	U	0.38		

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Project : US EPA Riverside Industrial Park Superfund Site **Sampling Date :** 03/26/25

Field Id Number : IA-B1-2-3252025 **Analysis Date :** 04/17/25

Laboratory Id Number : Q1668-02 **Target Analyts :** Air Results

Dibromochloromethane	124-48-1	208.3	0.07	U	0.6		
1,2-Dibromoethane	106-93-4	187.9	0.07	U	0.54		
Tetrachloroethene	127-18-4	165.8	0.03		0.2		
Chlorobenzene	108-90-7	112.6	0.08	U	0.37		
Ethyl Benzene	100-41-4	106.2	0.95		4.13		
m/p-Xylene	179601-23-1	106.2	5.9		25.6		
o-Xylene	95-47-6	106.2	2.3		9.99		
Styrene	100-42-5	104.1	0.47	J	2		
Bromoform	75-25-2	252.8	0.06	U	0.62		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	0.01	U	0.07		
2-Chlorotoluene	95-49-8	126.6	0.11	U	0.57		
1,3,5-Trimethylbenzene	108-67-8	120.2	1.8		8.85		
1,2,4-Trimethylbenzene	95-63-6	120.2	5.4		26.6		
1,3-Dichlorobenzene	541-73-1	147	0.08	U	0.48		
1,4-Dichlorobenzene	106-46-7	147	0.05	U	0.3		
1,2-Dichlorobenzene	95-50-1	147	0.08	U	0.48		
1,2,4-Trichlorobenzene	120-82-1	181.5	0.09	U	0.67		
Hexachloro-1,3-Butadiene	87-68-3	260.8	0.09	U	0.96		
Naphthalene	91-20-3	128.17	0.47		2.46		
1,3-Butadiene	106-99-0	54.09	0.13	U	0.29		
4-Ethyltoluene	622-96-8	120.2	1.3		6.39		
Hexane	110-54-3	86.17	2.7		9.52		
Allyl Chloride	107-05-1	76.53	0.15	U	0.47		
1,4-Dioxane	123-91-1	88.12	0.21	U	0.76		
Methyl Methacrylate	80-62-6	100.117	0.09	U	0.37		

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Project : US EPA Riverside Industrial Park Superfund Site

Sampling Date : 03/26/25

Field Id Number : IA-B1-3-3252025

Analysis Date : 04/17/25

Laboratory Id Number : Q1668-03

Target Analyts : Air Results

Chemical	Cas Number	Molecular Weight	Insert Results in PPBV	Qualifier	Generate Results in ug/m3	QAS Decision	Foot Notes
Dichlorodifluoromethane	75-71-8	120.9	0.44	J	2.18		
Chloromethane	74-87-3	50.49	0.6		1.24		
Vinyl Chloride	75-01-4	62.5	0.01	U	0.03		
Bromomethane	74-83-9	94.94	0.14	U	0.54		
Chloroethane	75-00-3	64.52	0.17	U	0.45		
Tetrahydrofuran	109-99-9	72.11	0.13	U	0.38		
Trichlorofluoromethane	75-69-4	137.4	0.22	J	1.24		
Dichlorotetrafluoroethane	76-14-2	170.9	0.09	U	0.63		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	0.16	U	1.23		
tert-Butyl alcohol	75-65-0	74.12	0.19	U	0.58		
Heptane	142-82-5	100.2	1.5		6.15		
1,1-Dichloroethene	75-35-4	96.94	0.14	U	0.56		
Acetone	67-64-1	58.08	5.2		12.4		
Carbon Disulfide	75-15-0	76.14	0.16	U	0.5		
Methyl tert-Butyl Ether	1634-04-4	88.15	0.12	U	0.43		
Methylene Chloride	75-09-2	84.94	0.82		2.85		
trans-1,2-Dichloroethene	156-60-5	96.94	0.19	U	0.75		
1,1-Dichloroethane	75-34-3	98.96	0.13	U	0.53		
Cyclohexane	110-82-7	84.16	1.7		5.85		
2-Butanone	78-93-3	72.11	0.77		2.27		
Carbon Tetrachloride	56-23-5	153.8	0.07		0.44		
cis-1,2-Dichloroethene	156-59-2	96.94	0.09	U	0.36		
Chloroform	67-66-3	119.4	0.08	U	0.39		
1,1,1-Trichloroethane	71-55-6	133.4	0.01	U	0.05		
2,2,4-Trimethylpentane	540-84-1	114.2	0.16	J	0.75		
Benzene	71-43-2	78.11	0.57		1.82		
1,2-Dichloroethane	107-06-2	98.96	0.09	U	0.36		
Trichloroethene	79-01-6	131.4	0.03		0.16		
1,2-Dichloropropane	78-87-5	113	0.11	U	0.51		
Bromodichloromethane	75-27-4	163.8	0.08	U	0.54		
4-Methyl-2-Pentanone	108-10-1	100.2	15.3	E	62.7		
Toluene	108-88-3	92.14	1.4		5.28		
t-1,3-Dichloropropene	10061-02-6	111	0.06	U	0.27		
cis-1,3-Dichloropropene	10061-01-5	111	0.06	U	0.27		
1,1,2-Trichloroethane	79-00-5	133.4	0.07	U	0.38		

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Project : US EPA Riverside Industrial Park Superfund Site **Sampling Date :** 03/26/25

Field Id Number : IA-B1-3-3252025 **Analysis Date :** 04/17/25

Laboratory Id Number : Q1668-03 **Target Analyts :** Air Results

Dibromochloromethane	124-48-1	208.3	0.07	U	0.6		
1,2-Dibromoethane	106-93-4	187.9	0.07	U	0.54		
Tetrachloroethene	127-18-4	165.8	0.05		0.34		
Chlorobenzene	108-90-7	112.6	0.08	U	0.37		
Ethyl Benzene	100-41-4	106.2	1.1		4.78		
m/p-Xylene	179601-23-1	106.2	7.7		33.4		
o-Xylene	95-47-6	106.2	2.6		11.3		
Styrene	100-42-5	104.1	0.79		3.36		
Bromoform	75-25-2	252.8	0.06	U	0.62		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	0.01	U	0.07		
2-Chlorotoluene	95-49-8	126.6	0.11	U	0.57		
1,3,5-Trimethylbenzene	108-67-8	120.2	1.7		8.36		
1,2,4-Trimethylbenzene	95-63-6	120.2	5.2		25.6		
1,3-Dichlorobenzene	541-73-1	147	0.08	U	0.48		
1,4-Dichlorobenzene	106-46-7	147	0.05	U	0.3		
1,2-Dichlorobenzene	95-50-1	147	0.08	U	0.48		
1,2,4-Trichlorobenzene	120-82-1	181.5	0.09	U	0.67		
Hexachloro-1,3-Butadiene	87-68-3	260.8	0.09	U	0.96		
Naphthalene	91-20-3	128.17	0.47		2.46		
1,3-Butadiene	106-99-0	54.09	0.13	U	0.29		
4-Ethyltoluene	622-96-8	120.2	1.4		6.88		
Hexane	110-54-3	86.17	2.4		8.46		
Allyl Chloride	107-05-1	76.53	0.15	U	0.47		
1,4-Dioxane	123-91-1	88.12	0.21	U	0.76		
Methyl Methacrylate	80-62-6	100.117	0.09	U	0.37		

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Project : US EPA Riverside Industrial Park Superfund Site

Sampling Date : 03/26/25

Field Id Number : IA-B1-3-3252025DL

Analysis Date : 04/18/25

Laboratory Id Number : Q1668-03DL

Target Analyts : Air Results

Chemical	Cas Number	Molecular Weight	Insert Results in PPBV	Qualifier	Generate Results in ug/m3	QAS Decision	Foot Notes
Dichlorodifluoromethane	75-71-8	120.9	0.84	UD	4.15		
Chloromethane	74-87-3	50.49	0.78	JD	1.61		
Vinyl Chloride	75-01-4	62.5	0.06	UD	0.15		
Bromomethane	74-83-9	94.94	0.56	UD	2.17		
Chloroethane	75-00-3	64.52	0.68	UD	1.79		
Tetrahydrofuran	109-99-9	72.11	0.52	UD	1.53		
Trichlorofluoromethane	75-69-4	137.4	0.64	UD	3.6		
Dichlorotetrafluoroethane	76-14-2	170.9	0.35	UD	2.45		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	0.64	UD	4.91		
tert-Butyl alcohol	75-65-0	74.12	0.76	UD	2.3		
Heptane	142-82-5	100.2	1.7	JD	6.97		
1,1-Dichloroethene	75-35-4	96.94	0.56	UD	2.22		
Acetone	67-64-1	58.08	6.4	D	15.2		
Carbon Disulfide	75-15-0	76.14	0.64	UD	1.99		
Methyl tert-Butyl Ether	1634-04-4	88.15	0.48	UD	1.73		
Methylene Chloride	75-09-2	84.94	2.6	D	9.03		
trans-1,2-Dichloroethene	156-60-5	96.94	0.76	UD	3.01		
1,1-Dichloroethane	75-34-3	98.96	0.52	UD	2.1		
Cyclohexane	110-82-7	84.16	1.9	JD	6.54		
2-Butanone	78-93-3	72.11	0.84	JD	2.48		
Carbon Tetrachloride	56-23-5	153.8	0.04	UD	0.25		
cis-1,2-Dichloroethene	156-59-2	96.94	0.36	UD	1.43		
Chloroform	67-66-3	119.4	0.33	UD	1.61		
1,1,1-Trichloroethane	71-55-6	133.4	0.04	UD	0.22		
2,2,4-Trimethylpentane	540-84-1	114.2	0.4	UD	1.87		
Benzene	71-43-2	78.11	0.67	JD	2.14		
1,2-Dichloroethane	107-06-2	98.96	0.36	UD	1.46		
Trichloroethene	79-01-6	131.4	0.07	UD	0.38		
1,2-Dichloropropane	78-87-5	113	0.44	UD	2.03		
Bromodichloromethane	75-27-4	163.8	0.31	UD	2.08		
4-Methyl-2-Pentanone	108-10-1	100.2	16	D	65.6		
Toluene	108-88-3	92.14	1.5	JD	5.65		
t-1,3-Dichloropropene	10061-02-6	111	0.24	UD	1.09		
cis-1,3-Dichloropropene	10061-01-5	111	0.26	UD	1.18		
1,1,2-Trichloroethane	79-00-5	133.4	0.28	UD	1.53		

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Project : US EPA Riverside Industrial Park Superfund Site **Sampling Date :** 03/26/25

Field Id Number : IA-B1-3-3252025DL **Analysis Date :** 04/18/25

Laboratory Id Number : Q1668-03DL **Target Analyts :** Air Results

Dibromochloromethane	124-48-1	208.3	0.26	UD	2.22		
1,2-Dibromoethane	106-93-4	187.9	0.29	UD	2.23		
Tetrachloroethene	127-18-4	165.8	0.06	UD	0.41		
Chlorobenzene	108-90-7	112.6	0.3	UD	1.38		
Ethyl Benzene	100-41-4	106.2	1.2	JD	5.21		
m/p-Xylene	179601-23-1	106.2	8.4	D	36.5		
o-Xylene	95-47-6	106.2	2.8	D	12.2		
Styrene	100-42-5	104.1	0.83	JD	3.53		
Bromoform	75-25-2	252.8	0.23	UD	2.38		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	0.04	UD	0.27		
2-Chlorotoluene	95-49-8	126.6	0.44	UD	2.28		
1,3,5-Trimethylbenzene	108-67-8	120.2	1.9	JD	9.34		
1,2,4-Trimethylbenzene	95-63-6	120.2	5.7	D	28.0		
1,3-Dichlorobenzene	541-73-1	147	0.32	UD	1.92		
1,4-Dichlorobenzene	106-46-7	147	0.21	UD	1.26		
1,2-Dichlorobenzene	95-50-1	147	0.3	UD	1.8		
1,2,4-Trichlorobenzene	120-82-1	181.5	0.34	UD	2.52		
Hexachloro-1,3-Butadiene	87-68-3	260.8	0.34	UD	3.63		
Naphthalene	91-20-3	128.17	0.4	D	2.1		
1,3-Butadiene	106-99-0	54.09	0.52	UD	1.15		
4-Ethyltoluene	622-96-8	120.2	1.4	JD	6.88		
Hexane	110-54-3	86.17	3.2	D	11.3		
Allyl Chloride	107-05-1	76.53	0.6	UD	1.88		
1,4-Dioxane	123-91-1	88.12	0.84	UD	3.03		
Methyl Methacrylate	80-62-6	100.117	0.34	UD	1.39		

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Project : US EPA Riverside Industrial Park Superfund Site

Sampling Date : 03/26/25

Field Id Number : IA-B1-1-3252025

Analysis Date : 04/17/25

Laboratory Id Number : Q1668-04

Target Analyts : Air Results

Chemical	Cas Number	Molecular Weight	Insert Results in PPBV	Qualifier	Generate Results in ug/m3	QAS Decision	Foot Notes
Dichlorodifluoromethane	75-71-8	120.9	0.48	J	2.37		
Chloromethane	74-87-3	50.49	0.67		1.38		
Vinyl Chloride	75-01-4	62.5	0.01	U	0.03		
Bromomethane	74-83-9	94.94	0.14	U	0.54		
Chloroethane	75-00-3	64.52	0.17	U	0.45		
Tetrahydrofuran	109-99-9	72.11	0.13	U	0.38		
Trichlorofluoromethane	75-69-4	137.4	0.24	J	1.35		
Dichlorotetrafluoroethane	76-14-2	170.9	0.09	U	0.63		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	0.16	U	1.23		
tert-Butyl alcohol	75-65-0	74.12	0.36	J	1.09		
Heptane	142-82-5	100.2	1.9		7.79		
1,1-Dichloroethene	75-35-4	96.94	0.14	U	0.56		
Acetone	67-64-1	58.08	7.3		17.3		
Carbon Disulfide	75-15-0	76.14	0.16	U	0.5		
Methyl tert-Butyl Ether	1634-04-4	88.15	0.12	U	0.43		
Methylene Chloride	75-09-2	84.94	5.2		18.1		
trans-1,2-Dichloroethene	156-60-5	96.94	0.19	U	0.75		
1,1-Dichloroethane	75-34-3	98.96	0.13	U	0.53		
Cyclohexane	110-82-7	84.16	1.8		6.2		
2-Butanone	78-93-3	72.11	0.83		2.45		
Carbon Tetrachloride	56-23-5	153.8	0.07		0.44		
cis-1,2-Dichloroethene	156-59-2	96.94	0.09	U	0.36		
Chloroform	67-66-3	119.4	0.08	U	0.39		
1,1,1-Trichloroethane	71-55-6	133.4	0.01	U	0.05		
2,2,4-Trimethylpentane	540-84-1	114.2	0.37	J	1.73		
Benzene	71-43-2	78.11	0.77		2.46		
1,2-Dichloroethane	107-06-2	98.96	0.09	U	0.36		
Trichloroethene	79-01-6	131.4	0.02	U	0.11		
1,2-Dichloropropane	78-87-5	113	0.11	U	0.51		
Bromodichloromethane	75-27-4	163.8	0.08	U	0.54		
4-Methyl-2-Pentanone	108-10-1	100.2	9.8		40.2		
Toluene	108-88-3	92.14	2.7		10.2		
t-1,3-Dichloropropene	10061-02-6	111	0.06	U	0.27		
cis-1,3-Dichloropropene	10061-01-5	111	0.06	U	0.27		
1,1,2-Trichloroethane	79-00-5	133.4	0.07	U	0.38		

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Project : US EPA Riverside Industrial Park Superfund Site **Sampling Date :** 03/26/25

Field Id Number : IA-B1-1-3252025 **Analysis Date :** 04/17/25

Laboratory Id Number : Q1668-04 **Target Analyts :** Air Results

Dibromochloromethane	124-48-1	208.3	0.07	U	0.6		
1,2-Dibromoethane	106-93-4	187.9	0.07	U	0.54		
Tetrachloroethene	127-18-4	165.8	0.05		0.34		
Chlorobenzene	108-90-7	112.6	0.08	U	0.37		
Ethyl Benzene	100-41-4	106.2	2.6		11.3		
m/p-Xylene	179601-23-1	106.2	14.6		63.4		
o-Xylene	95-47-6	106.2	6.2		26.9		
Styrene	100-42-5	104.1	0.61		2.6		
Bromoform	75-25-2	252.8	0.06	U	0.62		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	0.01	U	0.07		
2-Chlorotoluene	95-49-8	126.6	0.11	U	0.57		
1,3,5-Trimethylbenzene	108-67-8	120.2	4		19.7		
1,2,4-Trimethylbenzene	95-63-6	120.2	11.4		56.0		
1,3-Dichlorobenzene	541-73-1	147	0.08	U	0.48		
1,4-Dichlorobenzene	106-46-7	147	0.05	U	0.3		
1,2-Dichlorobenzene	95-50-1	147	0.08	U	0.48		
1,2,4-Trichlorobenzene	120-82-1	181.5	0.09	U	0.67		
Hexachloro-1,3-Butadiene	87-68-3	260.8	0.09	U	0.96		
Naphthalene	91-20-3	128.17	0.49		2.57		
1,3-Butadiene	106-99-0	54.09	0.13	U	0.29		
4-Ethyltoluene	622-96-8	120.2	3.2		15.7		
Hexane	110-54-3	86.17	4.8		16.9		
Allyl Chloride	107-05-1	76.53	0.15	U	0.47		
1,4-Dioxane	123-91-1	88.12	0.21	U	0.76		
Methyl Methacrylate	80-62-6	100.117	0.09	U	0.37		

Method	Matrix	Parameter	Spike_Amt_ Added	Calculated MDL	MB Data	MB Datafile	New MDL TO Be Used	MDL Unit
TO-15	Air	1,1,1,2-Tetrachloroethane	0.4	0.090683682	0		0.091	ppbv
TO-15	Air	1,1,1-Trichloroethane	0.03	0.00947589	0		0.0095	ppbv
TO-15	Air	1,1,2,2-Tetrachloroethane	0.03	0.010183321	0		0.011	ppbv
TO-15	Air	1,1,2-Trichloroethane	0.4	0.070112514	0		0.071	ppbv
TO-15	Air	1,1,2-Trichlorotrifluoroethane	0.4	0.155560652	0		0.16	ppbv
TO-15	Air	1,1-Dichloroethane	0.4	0.122378743	0		0.13	ppbv
TO-15	Air	1,1-Dichloroethene	0.4	0.139735617	0		0.14	ppbv
TO-15	Air	1,2,4-Trichlorobenzene	0.4	0.084677012	0		0.085	ppbv
TO-15	Air	1,2,4-Trimethylbenzene	0.4	0.077496367	0		0.078	ppbv
TO-15	Air	1,2-Dibromoethane	0.4	0.071318853	0		0.072	ppbv
TO-15	Air	1,2-Dichlorobenzene	0.4	0.074250332	0		0.075	ppbv
TO-15	Air	1,2-Dichloroethane	0.4	0.090890005	0		0.091	ppbv
TO-15	Air	1,2-Dichloropropane	0.4	0.073346868	0.109	VL038919.D	0.11	ppbv
TO-15	Air	1,3,5-Trimethylbenzene	0.4	0.101198372	0		0.11	ppbv
TO-15	Air	1,3-Butadiene	0.4	0.124009143	0		0.13	ppbv
TO-15	Air	1,3-Dichlorobenzene	0.4	0.079013305	0		0.08	ppbv
TO-15	Air	1,4-Dichlorobenzene	0.4	0.052746151	0		0.053	ppbv
TO-15	Air	1,4-Dioxane	0.4	0.202123585	0		0.21	ppbv
TO-15	Air	2,2,4-Trimethylpentane	0.4	0.09988427	0		0.10	ppbv
TO-15	Air	2-Butanone	0.4	0.118687999	0		0.12	ppbv
TO-15	Air	2-Chlorotoluene	0.4	0.104141644	0		0.11	ppbv
TO-15	Air	2-Hexanone	0.4	0.080656229	0		0.081	ppbv
TO-15	Air	4-Ethyltoluene	0.4	0.112037051	0		0.12	ppbv
TO-15	Air	4-Methyl-2-Pentanone	0.4	0.092836933	0		0.093	ppbv
TO-15	Air	Acetone	0.4	0.234416891	0		0.24	ppbv
TO-15	Air	Allyl Chloride	0.4	0.145618654	0		0.15	ppbv
TO-15	Air	Benzene	0.4	0.086407689	0		0.087	ppbv
TO-15	Air	Benzyl Chloride	0.4	0.173895169	0		0.18	ppbv
TO-15	Air	Bromodichloromethane	0.4	0.076780313	0		0.077	ppbv
TO-15	Air	Bromoethene	0.4	0.115560124	0		0.12	ppbv
TO-15	Air	Bromoform	0.4	0.056947551	0		0.057	ppbv
TO-15	Air	Bromomethane	0.4	0.137678239	0		0.14	ppbv
TO-15	Air	Carbon Disulfide	0.4	0.157343925	0		0.16	ppbv
TO-15	Air	Carbon Tetrachloride	0.03	0.010617308	0		0.011	ppbv
TO-15	Air	Chlorobenzene	0.4	0.075202602	0		0.076	ppbv
TO-15	Air	Chlorodifluoromethane	0.4	0.087466815	0		0.088	ppbv
TO-15	Air	Chloroethane	0.4	0.163530318	0		0.17	ppbv
TO-15	Air	Chloroform	0.4	0.082232394	0		0.083	ppbv
TO-15	Air	Chloromethane	0.4	0.097292998	0		0.098	ppbv
TO-15	Air	cis-1,2-Dichloroethene	0.4	0.088332535	0		0.089	ppbv
TO-15	Air	cis-1,3-Dichloropropene	0.4	0.063248763	0		0.064	ppbv
TO-15	Air	Cyclohexane	0.4	0.217999816	0		0.22	ppbv
TO-15	Air	Dibromochloromethane	0.4	0.065703935	0		0.066	ppbv
TO-15	Air	Dichlorodifluoromethane	0.4	0.20957733	0		0.21	ppbv
TO-15	Air	Dichlorotetrafluoroethane	0.4	0.087348046	0		0.088	ppbv
TO-15	Air	Ethyl Acetate	0.4	0.078161123	0		0.079	ppbv
TO-15	Air	Ethyl Benzene	0.4	0.115413562	0		0.12	ppbv
TO-15	Air	Heptane	0.4	0.100800637	0		0.11	ppbv
TO-15	Air	Hexachloro-1,3-Butadiene	0.4	0.084169773	0		0.085	ppbv
TO-15	Air	Hexane	0.4	0.106485082	0		0.11	ppbv
TO-15	Air	Isopropyl Alcohol	0.4	0.068329134	0		0.069	ppbv
TO-15	Air	Isopropylbenzene	0.4	0.086744608	0		0.087	ppbv
TO-15	Air	m/p-Xylene	0.4	0.205831125	0		0.21	ppbv
TO-15	Air	Methyl Methacrylate	0.4	0.085528753	0		0.086	ppbv
TO-15	Air	Methyl tert-Butyl Ether	0.4	0.119546728	0		0.12	ppbv
TO-15	Air	Methylene Chloride	0.4	0.18405265	0.11	VL039022.D	0.19	ppbv
TO-15	Air	Naphthalene	0.4	0.074961199	0		0.075	ppbv
TO-15	Air	Naphthalene,2-methyl-	0.4	0.148496389	0		0.15	ppbv
TO-15	Air	n-Butylbenzene	0.4	0.08201719	0		0.083	ppbv
TO-15	Air	n-propylbenzene	0.4	0.0778963	0		0.078	ppbv
TO-15	Air	o-Xylene	0.4	0.117630235	0		0.12	ppbv
TO-15	Air	p-Isopropyltoluene	0.4	0.085704866	0		0.086	ppbv
TO-15	Air	Propene	0.4	0.143790814	0.14	VL039337.D	0.15	ppbv
TO-15	Air	sec-Butylbenzene	0.4	0.093164076	0		0.094	ppbv
TO-15	Air	Styrene	0.4	0.109444442	0		0.11	ppbv
TO-15	Air	t-1,3-Dichloropropene	0.4	0.059734415	0		0.06	ppbv
TO-15	Air	tert-Butyl alcohol	0.4	0.187711954	0		0.19	ppbv
TO-15	Air	tert-Butylbenzene	0.4	0.092760327	0		0.093	ppbv
TO-15	Air	Tetrachloroethene	0.03	0.014462962	0		0.015	ppbv
TO-15	Air	Tetrahydrofuran	0.4	0.122655048	0		0.13	ppbv
TO-15	Air	Toluene	0.4	0.109284	0		0.11	ppbv
TO-15	Air	trans-1,2-Dichloroethene	0.4	0.185264638	0		0.19	ppbv
TO-15	Air	Trichloroethene	0.03	0.016558175	0		0.017	ppbv
TO-15	Air	Trichlorofluoromethane	0.4	0.157465794	0		0.16	ppbv
TO-15	Air	Vinyl Acetate	0.4	0.152371485	0		0.16	ppbv
TO-15	Air	Vinyl Chloride	0.03	0.013585954	0		0.014	ppbv
TO-15	Air	Ethanol	0.4	0.317031286	0		0.32	ug/L

StdevVal	StudentsT Value	Instrument ID	Datafile1	Concentration1	Adate1	Datafile2	Concentration2
0.03485153	2.602	MSVOA_L	VL038602.D	0.51	03142022T18:52:00	VL038645.D	0.494
0.003641772	2.602	MSVOA_L	VL038599.D	0.03	03142022T17:01:00	VL038658.D	0.029
0.003913651	2.602	MSVOA_L	VL038599.D	0.03	03142022T17:01:00	VL038658.D	0.035
0.026945624	2.602	MSVOA_L	VL038602.D	0.44	03142022T18:52:00	VL038645.D	0.439
0.059785032	2.602	MSVOA_L	VL038602.D	0.47	03142022T18:52:00	VL038645.D	0.466
0.047032569	2.602	MSVOA_L	VL038602.D	0.45	03142022T18:52:00	VL038645.D	0.456
0.053703158	2.602	MSVOA_L	VL038602.D	0.43	03142022T18:52:00	VL038645.D	0.411
0.032543048	2.602	MSVOA_L	VL038602.D	0.3	03142022T18:52:00	VL038645.D	0.336
0.029783385	2.602	MSVOA_L	VL038602.D	0.38	03142022T18:52:00	VL038645.D	0.396
0.027409244	2.602	MSVOA_L	VL038602.D	0.38	03142022T18:52:00	VL038645.D	0.352
0.028535869	2.602	MSVOA_L	VL038602.D	0.45	03142022T18:52:00	VL038645.D	0.407
0.034930824	2.602	MSVOA_L	VL038602.D	0.41	03142022T18:52:00	VL038645.D	0.445
0.02818865	2.602	MSVOA_L	VL038602.D	0.43	03142022T18:52:00	VL038645.D	0.406
0.038892534	2.602	MSVOA_L	VL038602.D	0.33	03142022T18:52:00	VL038645.D	0.374
0.047659163	2.602	MSVOA_L	VL038602.D	0.42	03142022T18:52:00	VL038645.D	0.419
0.030366374	2.602	MSVOA_L	VL038602.D	0.42	03142022T18:52:00	VL038645.D	0.428
0.020271388	2.602	MSVOA_L	VL038602.D	0.42	03142022T18:52:00	VL038645.D	0.418
0.077680086	2.602	MSVOA_L	VL038602.D	0.46	03142022T18:52:00	VL038645.D	0.285
0.038387498	2.602	MSVOA_L	VL038602.D	0.39	03142022T18:52:00	VL038645.D	0.383
0.045614143	2.602	MSVOA_L	VL038602.D	0.4	03142022T18:52:00	VL038645.D	0.406
0.040023691	2.602	MSVOA_L	VL038602.D	0.37	03142022T18:52:00	VL038645.D	0.375
0.030997782	2.602	MSVOA_L	VL038602.D	0.3	03142022T18:52:00	VL038645.D	0.283
0.043058052	2.602	MSVOA_L	VL038602.D	0.34	03142022T18:52:00	VL038645.D	0.356
0.035679067	2.602	MSVOA_L	VL038602.D	0.3	03142022T18:52:00	VL038645.D	0.282
0.090091042	2.602	MSVOA_L	VL038602.D	0.43	03142022T18:52:00	VL038645.D	0.468
0.055964125	2.602	MSVOA_L	VL038602.D	0.4	03142022T18:52:00	VL038645.D	0.392
0.033208182	2.602	MSVOA_L	VL038602.D	0.38	03142022T18:52:00	VL038645.D	0.407
0.066831349	2.602	MSVOA_L	VL038602.D	0.44	03142022T18:52:00	VL038645.D	0.454
0.029508191	2.602	MSVOA_L	VL038602.D	0.43	03142022T18:52:00	VL038645.D	0.408
0.044412039	2.602	MSVOA_L	VL038602.D	0.42	03142022T18:52:00	VL038645.D	0.433
0.021886069	2.602	MSVOA_L	VL038602.D	0.38	03142022T18:52:00	VL038645.D	0.31
0.052912467	2.602	MSVOA_L	VL038602.D	0.43	03142022T18:52:00	VL038645.D	0.404
0.060470378	2.602	MSVOA_L	VL038602.D	0.37	03142022T18:52:00	VL038645.D	0.357
0.004080441	2.602	MSVOA_L	VL038599.D	0.03	03142022T17:01:00	VL038658.D	0.026
0.028901845	2.602	MSVOA_L	VL038602.D	0.48	03142022T18:52:00	VL038645.D	0.467
0.033615225	2.602	MSVOA_L	VL038602.D	0.45	03142022T18:52:00	VL038645.D	0.468
0.062847932	2.602	MSVOA_L	VL038602.D	0.44	03142022T18:52:00	VL038645.D	0.453
0.031603534	2.602	MSVOA_L	VL038602.D	0.45	03142022T18:52:00	VL038645.D	0.464
0.037391621	2.602	MSVOA_L	VL038602.D	0.47	03142022T18:52:00	VL038645.D	0.439
0.033947938	2.602	MSVOA_L	VL038602.D	0.36	03142022T18:52:00	VL038645.D	0.391
0.024307749	2.602	MSVOA_L	VL038602.D	0.3	03142022T18:52:00	VL038645.D	0.317
0.083781636	2.602	MSVOA_L	VL038602.D	0.42	03142022T18:52:00	VL038645.D	0.414
0.02525132	2.602	MSVOA_L	VL038602.D	0.39	03142022T18:52:00	VL038645.D	0.359
0.080544708	2.602	MSVOA_L	VL038602.D	0.49	03142022T18:52:00	VL038645.D	0.43
0.033569579	2.602	MSVOA_L	VL038602.D	0.5	03142022T18:52:00	VL038645.D	0.472
0.030038864	2.602	MSVOA_L	VL038602.D	0.39	03142022T18:52:00	VL038645.D	0.412
0.044355712	2.602	MSVOA_L	VL038602.D	0.33	03142022T18:52:00	VL038645.D	0.357
0.038739676	2.602	MSVOA_L	VL038602.D	0.35	03142022T18:52:00	VL038645.D	0.349
0.032348107	2.602	MSVOA_L	VL038602.D	0.48	03142022T18:52:00	VL038645.D	0.5
0.04092432	2.602	MSVOA_L	VL038602.D	0.37	03142022T18:52:00	VL038645.D	0.411
0.026260236	2.602	MSVOA_L	VL038602.D	0.47	03142022T18:52:00	VL038645.D	0.44
0.033337666	2.602	MSVOA_L	VL038602.D	0.4	03142022T18:52:00	VL038645.D	0.387
0.079104967	2.602	MSVOA_L	VL038602.D	0.76	03142022T18:52:00	VL038645.D	0.762
0.032870389	2.602	MSVOA_L	VL038602.D	0.31	03142022T18:52:00	VL038645.D	0.334
0.045944169	2.602	MSVOA_L	VL038602.D	0.41	03142022T18:52:00	VL038645.D	0.418
0.070735069	2.602	MSVOA_L	VL038602.D	0.49	03142022T18:52:00	VL038645.D	0.479
0.02880907	2.602	MSVOA_L	VL038602.D	0.25	03142022T18:52:00	VL038645.D	0.289
0.057070096	2.602	MSVOA_L	VL038602.D	0.14	03142022T18:52:00	VL038645.D	0.074
0.031520826	2.602	MSVOA_L	VL038602.D	0.35	03142022T18:52:00	VL038645.D	0.366
0.029937087	2.602	MSVOA_L	VL038602.D	0.37	03142022T18:52:00	VL038645.D	0.365
0.045207623	2.602	MSVOA_L	VL038602.D	0.36	03142022T18:52:00	VL038645.D	0.368
0.032938073	2.602	MSVOA_L	VL038602.D	0.35	03142022T18:52:00	VL038645.D	0.366
0.05526165	2.602	MSVOA_L	VL038602.D	0.44	03142022T18:52:00	VL038645.D	0.443
0.035804795	2.602	MSVOA_L	VL038602.D	0.38	03142022T18:52:00	VL038645.D	0.392
0.042061661	2.602	MSVOA_L	VL038602.D	0.26	03142022T18:52:00	VL038645.D	0.275
0.022957116	2.602	MSVOA_L	VL038602.D	0.27	03142022T18:52:00	VL038645.D	0.29
0.072141412	2.602	MSVOA_L	VL038602.D	0.44	03142022T18:52:00	VL038645.D	0.459
0.035649626	2.602	MSVOA_L	VL038602.D	0.37	03142022T18:52:00	VL038645.D	0.405
0.005558402	2.602	MSVOA_L	VL038599.D	0.03	03142022T17:01:00	VL038658.D	0.031
0.047138758	2.602	MSVOA_L	VL038602.D	0.3	03142022T18:52:00	VL038645.D	0.324
0.042	2.602	MSVOA_L	VL038602.D	0.31	03142022T18:52:00	VL038645.D	0.332
0.07120086	2.602	MSVOA_L	VL038602.D	0.4	03142022T18:52:00	VL038645.D	0.396
0.006363634	2.602	MSVOA_L	VL038599.D	0.03	03142022T17:01:00	VL038658.D	0.035
0.060517215	2.602	MSVOA_L	VL038602.D	0.46	03142022T18:52:00	VL038645.D	0.472
0.058559372	2.602	MSVOA_L	VL038602.D	0.4	03142022T18:52:00	VL038645.D	0.389
0.00522135	2.602	MSVOA_L	VL038599.D	0.03	03142022T17:01:00	VL038658.D	0.031
0.105747594	2.998	MSVOA_L	VL040210.D	0.438	02222023T00:52:00	VL040220.D	0.43

Adate2	Datafile3	Concentration3	Adate3	Datafile4	Concentration4	Adate4	Datafile5
03182022T03:39:00	VL039242.D	0.45	06082022T19:44:00	VL039436.D	0.45	07062022T02:26:00	VL039568.D
03212022T20:11:00	VL039329.D	0.036	06222022T20:53:00	VL039439.D	0.033	07062022T09:13:00	VL039570.D
03212022T20:11:00	VL039329.D	0.029	06222022T20:53:00	VL039439.D	0.035	07062022T09:13:00	VL039570.D
03182022T03:39:00	VL039242.D	0.417	06082022T19:44:00	VL039436.D	0.445	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.615	06082022T19:44:00	VL039436.D	0.498	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.493	06082022T19:44:00	VL039436.D	0.545	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.594	06082022T19:44:00	VL039436.D	0.485	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.318	06082022T19:44:00	VL039436.D	0.328	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.389	06082022T19:44:00	VL039436.D	0.387	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.392	06082022T19:44:00	VL039436.D	0.391	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.409	06082022T19:44:00	VL039436.D	0.393	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.494	06082022T19:44:00	VL039436.D	0.435	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.404	06082022T19:44:00	VL039436.D	0.451	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.421	06082022T19:44:00	VL039436.D	0.397	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.583	06082022T19:44:00	VL039436.D	0.486	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.409	06082022T19:44:00	VL039436.D	0.465	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.392	06082022T19:44:00	VL039436.D	0.41	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.454	06082022T19:44:00	VL039436.D	0.535	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.37	06082022T19:44:00	VL039436.D	0.425	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.438	06082022T19:44:00	VL039436.D	0.482	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.415	06082022T19:44:00	VL039436.D	0.401	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.309	06082022T19:44:00	VL039436.D	0.31	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.391	06082022T19:44:00	VL039436.D	0.393	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.371	06082022T19:44:00	VL039436.D	0.372	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.649	06082022T19:44:00	VL039436.D	0.621	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.58	06082022T19:44:00	VL039436.D	0.45	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.391	06082022T19:44:00	VL039436.D	0.429	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.328	06082022T19:44:00	VL039436.D	0.438	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.398	06082022T19:44:00	VL039436.D	0.395	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.526	06082022T19:44:00	VL039436.D	0.475	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.335	06082022T19:44:00	VL039436.D	0.322	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.535	06082022T19:44:00	VL039436.D	0.503	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.494	06082022T19:44:00	VL039436.D	0.389	07062022T02:26:00	VL039568.D
03212022T20:11:00	VL039329.D	0.028	06222022T20:53:00	VL039439.D	0.03	07062022T09:13:00	VL039570.D
03182022T03:39:00	VL039242.D	0.418	06082022T19:44:00	VL039436.D	0.473	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.489	06082022T19:44:00	VL039436.D	0.483	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.595	06082022T19:44:00	VL039436.D	0.52	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.453	06082022T19:44:00	VL039436.D	0.469	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.5	06082022T19:44:00	VL039436.D	0.482	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.403	06082022T19:44:00	VL039436.D	0.434	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.315	06082022T19:44:00	VL039436.D	0.327	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.428	06082022T19:44:00	VL039436.D	0.512	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.359	06082022T19:44:00	VL039436.D	0.37	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.618	06082022T19:44:00	VL039436.D	0.675	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.551	06082022T19:44:00	VL039436.D	0.51	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.376	06082022T19:44:00	VL039436.D	0.441	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.374	06082022T19:44:00	VL039436.D	0.381	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.33	06082022T19:44:00	VL039436.D	0.41	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.444	06082022T19:44:00	VL039436.D	0.472	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.394	06082022T19:44:00	VL039436.D	0.47	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.504	06082022T19:44:00	VL039436.D	0.465	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.425	06082022T19:44:00	VL039436.D	0.416	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.815	06082022T19:44:00	VL039436.D	0.805	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.347	06082022T19:44:00	VL039436.D	0.361	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.492	06082022T19:44:00	VL039436.D	0.452	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.684	06082022T19:44:00	VL039436.D	0.578	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.282	06082022T19:44:00	VL039436.D	0.302	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.155	06082022T19:44:00	VL039436.D	0.143	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.39	06082022T19:44:00	VL039436.D	0.374	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.394	06082022T19:44:00	VL039436.D	0.397	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.421	06082022T19:44:00	VL039436.D	0.403	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.378	06082022T19:44:00	VL039436.D	0.388	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.435	06082022T19:44:00	VL039436.D	0.521	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.411	06082022T19:44:00	VL039436.D	0.406	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.345	06082022T19:44:00	VL039436.D	0.302	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.309	06082022T19:44:00	VL039436.D	0.279	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.655	06082022T19:44:00	VL039436.D	0.505	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.403	06082022T19:44:00	VL039436.D	0.388	07062022T02:26:00	VL039568.D
03212022T20:11:00	VL039329.D	0.036	06222022T20:53:00	VL039439.D	0.034	07062022T09:13:00	VL039570.D
03182022T03:39:00	VL039242.D	0.346	06082022T19:44:00	VL039436.D	0.38	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.341	06082022T19:44:00	VL039436.D	0.37	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.64	06082022T19:44:00	VL039436.D	0.494	07062022T02:26:00	VL039568.D
03212022T20:11:00	VL039329.D	0.038	06222022T20:53:00	VL039439.D	0.034	07062022T09:13:00	VL039570.D
03182022T03:39:00	VL039242.D	0.596	06082022T19:44:00	VL039436.D	0.492	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.418	06082022T19:44:00	VL039436.D	0.437	07062022T02:26:00	VL039568.D
03212022T20:11:00	VL039329.D	0.043	06222022T20:53:00	VL039439.D	0.036	07062022T09:13:00	VL039570.D
02232023T13:12:00	VL040329.D	0.51	04102023T17:39:00	VL040349.D	0.633	04122023T23:23:00	VL040559.D

Concentration5	Adate5	Datafile6	Concentration6	Adate6	Datafile7	Concentration7	Adate7
0.433	08182022T21:04:00	VL039600.D	0.463	08262022T12:33:00	VL039709.D	0.402	10102022T23:30:00
0.03	08182022T22:24:00	VL039586.D	0.031	08252022T20:23:00	VL039711.D	0.03	10112022T00:45:00
0.03	08182022T22:24:00	VL039586.D	0.029	08252022T20:23:00	VL039711.D	0.03	10112022T00:45:00
0.404	08182022T21:04:00	VL039600.D	0.424	08262022T12:33:00	VL039709.D	0.412	10102022T23:30:00
0.448	08182022T21:04:00	VL039600.D	0.454	08262022T12:33:00	VL039709.D	0.438	10102022T23:30:00
0.426	08182022T21:04:00	VL039600.D	0.451	08262022T12:33:00	VL039709.D	0.445	10102022T23:30:00
0.394	08182022T21:04:00	VL039600.D	0.387	08262022T12:33:00	VL039709.D	0.427	10102022T23:30:00
0.314	08182022T21:04:00	VL039600.D	0.367	08262022T12:33:00	VL039709.D	0.373	10102022T23:30:00
0.342	08182022T21:04:00	VL039600.D	0.389	08262022T12:33:00	VL039709.D	0.389	10102022T23:30:00
0.361	08182022T21:04:00	VL039600.D	0.402	08262022T12:33:00	VL039709.D	0.375	10102022T23:30:00
0.408	08182022T21:04:00	VL039600.D	0.431	08262022T12:33:00	VL039709.D	0.448	10102022T23:30:00
0.411	08182022T21:04:00	VL039600.D	0.455	08262022T12:33:00	VL039709.D	0.418	10102022T23:30:00
0.444	08182022T21:04:00	VL039600.D	0.429	08262022T12:33:00	VL039709.D	0.373	10102022T23:30:00
0.331	08182022T21:04:00	VL039600.D	0.357	08262022T12:33:00	VL039709.D	0.342	10102022T23:30:00
0.405	08182022T21:04:00	VL039600.D	0.449	08262022T12:33:00	VL039709.D	0.422	10102022T23:30:00
0.368	08182022T21:04:00	VL039600.D	0.414	08262022T12:33:00	VL039709.D	0.399	10102022T23:30:00
0.404	08182022T21:04:00	VL039600.D	0.384	08262022T12:33:00	VL039709.D	0.439	10102022T23:30:00
0.373	08182022T21:04:00	VL039600.D	0.341	08262022T12:33:00	VL039709.D	0.418	10102022T23:30:00
0.348	08182022T21:04:00	VL039600.D	0.379	08262022T12:33:00	VL039709.D	0.392	10102022T23:30:00
0.314	08182022T21:04:00	VL039600.D	0.451	08262022T12:33:00	VL039709.D	0.354	10102022T23:30:00
0.312	08182022T21:04:00	VL039600.D	0.359	08262022T12:33:00	VL039709.D	0.348	10102022T23:30:00
0.27	08182022T21:04:00	VL039600.D	0.294	08262022T12:33:00	VL039709.D	0.326	10102022T23:30:00
0.284	08182022T21:04:00	VL039600.D	0.348	08262022T12:33:00	VL039709.D	0.355	10102022T23:30:00
0.322	08182022T21:04:00	VL039600.D	0.335	08262022T12:33:00	VL039709.D	0.32	10102022T23:30:00
0.363	08182022T21:04:00	VL039600.D	0.484	08262022T12:33:00	VL039709.D	0.5	10102022T23:30:00
0.418	08182022T21:04:00	VL039600.D	0.459	08262022T12:33:00	VL039709.D	0.379	10102022T23:30:00
0.345	08182022T21:04:00	VL039600.D	0.376	08262022T12:33:00	VL039709.D	0.398	10102022T23:30:00
0.394	08182022T21:04:00	VL039600.D	0.336	08262022T12:33:00	VL039709.D	0.356	10102022T23:30:00
0.382	08182022T21:04:00	VL039600.D	0.367	08262022T12:33:00	VL039709.D	0.377	10102022T23:30:00
0.408	08182022T21:04:00	VL039600.D	0.441	08262022T12:33:00	VL039709.D	0.388	10102022T23:30:00
0.305	08182022T21:04:00	VL039600.D	0.303	08262022T12:33:00	VL039709.D	0.293	10102022T23:30:00
0.364	08182022T21:04:00	VL039600.D	0.494	08262022T12:33:00	VL039709.D	0.464	10102022T23:30:00
0.399	08182022T21:04:00	VL039600.D	0.268	08262022T12:33:00	VL039709.D	0.332	10102022T23:30:00
0.03	08182022T22:24:00	VL039586.D	0.027	08252022T20:23:00	VL039711.D	0.03	10112022T00:45:00
0.431	08182022T21:04:00	VL039600.D	0.466	08262022T12:33:00	VL039709.D	0.46	10102022T23:30:00
0.456	08182022T21:04:00	VL039600.D	0.504	08262022T12:33:00	VL039709.D	0.446	10102022T23:30:00
0.462	08182022T21:04:00	VL039600.D	0.504	08262022T12:33:00	VL039709.D	0.531	10102022T23:30:00
0.423	08182022T21:04:00	VL039600.D	0.46	08262022T12:33:00	VL039709.D	0.411	10102022T23:30:00
0.392	08182022T21:04:00	VL039600.D	0.472	08262022T12:33:00	VL039709.D	0.485	10102022T23:30:00
0.36	08182022T21:04:00	VL039600.D	0.407	08262022T12:33:00	VL039709.D	0.438	10102022T23:30:00
0.277	08182022T21:04:00	VL039600.D	0.291	08262022T12:33:00	VL039709.D	0.284	10102022T23:30:00
0.376	08182022T21:04:00	VL039600.D	0.395	08262022T12:33:00	VL039709.D	0.383	10102022T23:30:00
0.339	08182022T21:04:00	VL039600.D	0.335	08262022T12:33:00	VL039709.D	0.301	10102022T23:30:00
0.62	08182022T21:04:00	VL039600.D	0.643	08262022T12:33:00	VL039709.D	0.694	10102022T23:30:00
0.454	08182022T21:04:00	VL039600.D	0.508	08262022T12:33:00	VL039709.D	0.473	10102022T23:30:00
0.341	08182022T21:04:00	VL039600.D	0.432	08262022T12:33:00	VL039709.D	0.395	10102022T23:30:00
0.297	08182022T21:04:00	VL039600.D	0.338	08262022T12:33:00	VL039709.D	0.334	10102022T23:30:00
0.347	08182022T21:04:00	VL039600.D	0.382	08262022T12:33:00	VL039709.D	0.407	10102022T23:30:00
0.447	08182022T21:04:00	VL039600.D	0.502	08262022T12:33:00	VL039709.D	0.468	10102022T23:30:00
0.385	08182022T21:04:00	VL039600.D	0.405	08262022T12:33:00	VL039709.D	0.435	10102022T23:30:00
0.458	08182022T21:04:00	VL039600.D	0.434	08262022T12:33:00	VL039709.D	0.481	10102022T23:30:00
0.361	08182022T21:04:00	VL039600.D	0.388	08262022T12:33:00	VL039709.D	0.405	10102022T23:30:00
0.673	08182022T21:04:00	VL039600.D	0.719	08262022T12:33:00	VL039709.D	0.688	10102022T23:30:00
0.3	08182022T21:04:00	VL039600.D	0.323	08262022T12:33:00	VL039709.D	0.346	10102022T23:30:00
0.337	08182022T21:04:00	VL039600.D	0.355	08262022T12:33:00	VL039709.D	0.396	10102022T23:30:00
0.536	08182022T21:04:00	VL039600.D	0.634	08262022T12:33:00	VL039709.D	0.499	10102022T23:30:00
0.28	08182022T21:04:00	VL039600.D	0.302	08262022T12:33:00	VL039709.D	0.291	10102022T23:30:00
0.158	08182022T21:04:00	VL039600.D	0.094	08262022T12:33:00	VL039709.D	0.149	10102022T23:30:00
0.321	08182022T21:04:00	VL039600.D	0.354	08262022T12:33:00	VL039709.D	0.358	10102022T23:30:00
0.332	08182022T21:04:00	VL039600.D	0.338	08262022T12:33:00	VL039709.D	0.347	10102022T23:30:00
0.315	08182022T21:04:00	VL039600.D	0.347	08262022T12:33:00	VL039709.D	0.354	10102022T23:30:00
0.316	08182022T21:04:00	VL039600.D	0.362	08262022T12:33:00	VL039709.D	0.358	10102022T23:30:00
0.499	08182022T21:04:00	VL039600.D	0.578	08262022T12:33:00	VL039709.D	0.533	10102022T23:30:00
0.359	08182022T21:04:00	VL039600.D	0.382	08262022T12:33:00	VL039709.D	0.371	10102022T23:30:00
0.23	08182022T21:04:00	VL039600.D	0.257	08262022T12:33:00	VL039709.D	0.278	10102022T23:30:00
0.252	08182022T21:04:00	VL039600.D	0.252	08262022T12:33:00	VL039709.D	0.273	10102022T23:30:00
0.384	08182022T21:04:00	VL039600.D	0.382	08262022T12:33:00	VL039709.D	0.454	10102022T23:30:00
0.345	08182022T21:04:00	VL039600.D	0.399	08262022T12:33:00	VL039709.D	0.371	10102022T23:30:00
0.03	08182022T22:24:00	VL039586.D	0.038	08252022T20:23:00	VL039711.D	0.03	10112022T00:45:00
0.299	08182022T21:04:00	VL039600.D	0.344	08262022T12:33:00	VL039709.D	0.389	10102022T23:30:00
0.288	08182022T21:04:00	VL039600.D	0.296	08262022T12:33:00	VL039709.D	0.33	10102022T23:30:00
0.375	08182022T21:04:00	VL039600.D	0.466	08262022T12:33:00	VL039709.D	0.437	10102022T23:30:00
0.03	08182022T22:24:00	VL039586.D	0.031	08252022T20:23:00	VL039711.D	0.04	10112022T00:45:00
0.436	08182022T21:04:00	VL039600.D	0.47	08262022T12:33:00	VL039709.D	0.385	10102022T23:30:00
0.42	08182022T21:04:00	VL039600.D	0.483	08262022T12:33:00	VL039709.D	0.363	10102022T23:30:00
0.03	08182022T22:24:00	VL039586.D	0.029	08252022T20:23:00	VL039711.D	0.03	10112022T00:45:00
0.636	07272023T03:27:00	VL040579.D	0.42	07312023T19:20:00	VL040747.D	0.607	10042023T19:33:00

Datafile8	Concentration8	Adate8	Datafile9	Concentration9	Adate9	Datafile10	Concentration10
VL040134.D	0.42	01302023T15:54:00	VL040210.D	0.383	02222023T00:52:00	VL040220.D	0.42
VL040136.D	0.03	01302023T17:08:00	VL040222.D	0.038	02232023T14:26:00	VL040223.D	0.033
VL040136.D	0.03	01302023T17:08:00	VL040222.D	0.032	02232023T14:26:00	VL040223.D	0.027
VL040134.D	0.41	01302023T15:54:00	VL040210.D	0.395	02222023T00:52:00	VL040220.D	0.43
VL040134.D	0.38	01302023T15:54:00	VL040210.D	0.476	02222023T00:52:00	VL040220.D	0.47
VL040134.D	0.38	01302023T15:54:00	VL040210.D	0.436	02222023T00:52:00	VL040220.D	0.45
VL040134.D	0.4	01302023T15:54:00	VL040210.D	0.452	02222023T00:52:00	VL040220.D	0.45
VL040134.D	0.32	01302023T15:54:00	VL040210.D	0.299	02222023T00:52:00	VL040220.D	0.32
VL040134.D	0.37	01302023T15:54:00	VL040210.D	0.375	02222023T00:52:00	VL040220.D	0.37
VL040134.D	0.39	01302023T15:54:00	VL040210.D	0.38	02222023T00:52:00	VL040220.D	0.38
VL040134.D	0.38	01302023T15:54:00	VL040210.D	0.378	02222023T00:52:00	VL040220.D	0.43
VL040134.D	0.4	01302023T15:54:00	VL040210.D	0.434	02222023T00:52:00	VL040220.D	0.44
VL040134.D	0.41	01302023T15:54:00	VL040210.D	0.432	02222023T00:52:00	VL040220.D	0.43
VL040134.D	0.35	01302023T15:54:00	VL040210.D	0.344	02222023T00:52:00	VL040220.D	0.34
VL040134.D	0.43	01302023T15:54:00	VL040210.D	0.396	02222023T00:52:00	VL040220.D	0.41
VL040134.D	0.37	01302023T15:54:00	VL040210.D	0.395	02222023T00:52:00	VL040220.D	0.42
VL040134.D	0.4	01302023T15:54:00	VL040210.D	0.402	02222023T00:52:00	VL040220.D	0.4
VL040134.D	0.41	01302023T15:54:00	VL040210.D	0.387	02222023T00:52:00	VL040220.D	0.43
VL040134.D	0.39	01302023T15:54:00	VL040210.D	0.352	02222023T00:52:00	VL040220.D	0.38
VL040134.D	0.38	01302023T15:54:00	VL040210.D	0.416	02222023T00:52:00	VL040220.D	0.44
VL040134.D	0.36	01302023T15:54:00	VL040210.D	0.34	02222023T00:52:00	VL040220.D	0.36
VL040134.D	0.32	01302023T15:54:00	VL040210.D	0.318	02222023T00:52:00	VL040220.D	0.34
VL040134.D	0.35	01302023T15:54:00	VL040210.D	0.321	02222023T00:52:00	VL040220.D	0.36
VL040134.D	0.36	01302023T15:54:00	VL040210.D	0.337	02222023T00:52:00	VL040220.D	0.37
VL040134.D	0.45	01302023T15:54:00	VL040210.D	0.482	02222023T00:52:00	VL040220.D	0.5
VL040134.D	0.36	01302023T15:54:00	VL040210.D	0.411	02222023T00:52:00	VL040220.D	0.45
VL040134.D	0.38	01302023T15:54:00	VL040210.D	0.359	02222023T00:52:00	VL040220.D	0.39
VL040134.D	0.29	01302023T15:54:00	VL040210.D	0.311	02222023T00:52:00	VL040220.D	0.38
VL040134.D	0.37	01302023T15:54:00	VL040210.D	0.378	02222023T00:52:00	VL040220.D	0.38
VL040134.D	0.37	01302023T15:54:00	VL040210.D	0.413	02222023T00:52:00	VL040220.D	0.42
VL040134.D	0.32	01302023T15:54:00	VL040210.D	0.32	02222023T00:52:00	VL040220.D	0.33
VL040134.D	0.4	01302023T15:54:00	VL040210.D	0.408	02222023T00:52:00	VL040220.D	0.49
VL040134.D	0.31	01302023T15:54:00	VL040210.D	0.391	02222023T00:52:00	VL040220.D	0.37
VL040136.D	0.03	01302023T17:08:00	VL040222.D	0.033	02232023T14:26:00	VL040223.D	0.037
VL040134.D	0.44	01302023T15:54:00	VL040210.D	0.414	02222023T00:52:00	VL040220.D	0.45
VL040134.D	0.43	01302023T15:54:00	VL040210.D	0.474	02222023T00:52:00	VL040220.D	0.46
VL040134.D	0.37	01302023T15:54:00	VL040210.D	0.416	02222023T00:52:00	VL040220.D	0.44
VL040134.D	0.47	01302023T15:54:00	VL040210.D	0.445	02222023T00:52:00	VL040220.D	0.42
VL040134.D	0.46	01302023T15:54:00	VL040210.D	0.443	02222023T00:52:00	VL040220.D	0.47
VL040134.D	0.38	01302023T15:54:00	VL040210.D	0.435	02222023T00:52:00	VL040220.D	0.38
VL040134.D	0.33	01302023T15:54:00	VL040210.D	0.284	02222023T00:52:00	VL040220.D	0.34
VL040134.D	0.49	01302023T15:54:00	VL040210.D	0.521	02222023T00:52:00	VL040220.D	0.34
VL040134.D	0.35	01302023T15:54:00	VL040210.D	0.343	02222023T00:52:00	VL040220.D	0.34
VL040134.D	0.48	01302023T15:54:00	VL040210.D	0.497	02222023T00:52:00	VL040220.D	0.49
VL040134.D	0.43	01302023T15:54:00	VL040210.D	0.431	02222023T00:52:00	VL040220.D	0.46
VL040134.D	0.39	01302023T15:54:00	VL040210.D	0.398	02222023T00:52:00	VL040220.D	0.42
VL040134.D	0.36	01302023T15:54:00	VL040210.D	0.309	02222023T00:52:00	VL040220.D	0.33
VL040134.D	0.34	01302023T15:54:00	VL040210.D	0.336	02222023T00:52:00	VL040220.D	0.37
VL040134.D	0.43	01302023T15:54:00	VL040210.D	0.421	02222023T00:52:00	VL040220.D	0.44
VL040134.D	0.41	01302023T15:54:00	VL040210.D	0.4	02222023T00:52:00	VL040220.D	0.41
VL040134.D	0.4	01302023T15:54:00	VL040210.D	0.479	02222023T00:52:00	VL040220.D	0.48
VL040134.D	0.38	01302023T15:54:00	VL040210.D	0.361	02222023T00:52:00	VL040220.D	0.4
VL040134.D	0.71	01302023T15:54:00	VL040210.D	0.699	02222023T00:52:00	VL040220.D	0.75
VL040134.D	0.35	01302023T15:54:00	VL040210.D	0.314	02222023T00:52:00	VL040220.D	0.35
VL040134.D	0.38	01302023T15:54:00	VL040210.D	0.421	02222023T00:52:00	VL040220.D	0.41
VL040134.D	0.44	01302023T15:54:00	VL040210.D	0.558	02222023T00:52:00	VL040220.D	0.57
VL040134.D	0.27	01302023T15:54:00	VL040210.D	0.246	02222023T00:52:00	VL040220.D	0.27
VL040134.D	0.19	01302023T15:54:00	VL040210.D	0.116	02222023T00:52:00	VL040220.D	0.21
VL040134.D	0.34	01302023T15:54:00	VL040210.D	0.349	02222023T00:52:00	VL040220.D	0.35
VL040134.D	0.34	01302023T15:54:00	VL040210.D	0.354	02222023T00:52:00	VL040220.D	0.36
VL040134.D	0.34	01302023T15:54:00	VL040210.D	0.331	02222023T00:52:00	VL040220.D	0.36
VL040134.D	0.33	01302023T15:54:00	VL040210.D	0.329	02222023T00:52:00	VL040220.D	0.34
VL040134.D	0.42	01302023T15:54:00	VL040210.D	0.432	02222023T00:52:00	VL040220.D	0.43
VL040134.D	0.36	01302023T15:54:00	VL040210.D	0.352	02222023T00:52:00	VL040220.D	0.37
VL040134.D	0.29	01302023T15:54:00	VL040210.D	0.262	02222023T00:52:00	VL040220.D	0.27
VL040134.D	0.3	01302023T15:54:00	VL040210.D	0.292	02222023T00:52:00	VL040220.D	0.3
VL040134.D	0.4	01302023T15:54:00	VL040210.D	0.395	02222023T00:52:00	VL040220.D	0.44
VL040134.D	0.35	01302023T15:54:00	VL040210.D	0.349	02222023T00:52:00	VL040220.D	0.36
VL040136.D	0.03	01302023T17:08:00	VL040222.D	0.029	02232023T14:26:00	VL040223.D	0.031
VL040134.D	0.42	01302023T15:54:00	VL040210.D	0.368	02222023T00:52:00	VL040220.D	0.42
VL040134.D	0.34	01302023T15:54:00	VL040210.D	0.297	02222023T00:52:00	VL040220.D	0.33
VL040134.D	0.35	01302023T15:54:00	VL040210.D	0.397	02222023T00:52:00	VL040220.D	0.42
VL040136.D	0.03	01302023T17:08:00	VL040222.D	0.027	02232023T14:26:00	VL040223.D	0.028
VL040134.D	0.4	01302023T15:54:00	VL040210.D	0.451	02222023T00:52:00	VL040220.D	0.45
VL040134.D	0.39	01302023T15:54:00	VL040210.D	0.438	02222023T00:52:00	VL040220.D	0.4
VL040136.D	0.03	01302023T17:08:00	VL040222.D	0.033	02232023T14:26:00	VL040223.D	0.038
VL040805.D	0.675	10252023T18:12:00					

Adate10	Datafile11	Concentration11	Adate11	Datafile12	Concentration12	Adate12	Datafile13
02232023T13:12:00	VL040329.D	0.45	04102023T17:39:00	VL040349.D	0.434	04122023T23:23:00	VL040559.D
02232023T15:04:00	VL040332.D	0.028	04102023T19:33:00	VL040346.D	0.027	04122023T19:50:00	VL040576.D
02232023T15:04:00	VL040332.D	0.023	04102023T19:33:00	VL040346.D	0.03	04122023T19:50:00	VL040576.D
02232023T13:12:00	VL040329.D	0.41	04102023T17:39:00	VL040349.D	0.403	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.42	04102023T17:39:00	VL040349.D	0.429	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.43	04102023T17:39:00	VL040349.D	0.4	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.44	04102023T17:39:00	VL040349.D	0.419	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.3	04102023T17:39:00	VL040349.D	0.302	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.34	04102023T17:39:00	VL040349.D	0.362	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.37	04102023T17:39:00	VL040349.D	0.398	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.38	04102023T17:39:00	VL040349.D	0.402	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.45	04102023T17:39:00	VL040349.D	0.427	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.41	04102023T17:39:00	VL040349.D	0.385	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.33	04102023T17:39:00	VL040349.D	0.311	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.38	04102023T17:39:00	VL040349.D	0.448	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.38	04102023T17:39:00	VL040349.D	0.392	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.39	04102023T17:39:00	VL040349.D	0.402	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.33	04102023T17:39:00	VL040349.D	0.33	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.35	04102023T17:39:00	VL040349.D	0.356	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.45	04102023T17:39:00	VL040349.D	0.451	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.32	04102023T17:39:00	VL040349.D	0.31	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.28	04102023T17:39:00	VL040349.D	0.29	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.32	04102023T17:39:00	VL040349.D	0.303	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.33	04102023T17:39:00	VL040349.D	0.339	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.58	04102023T17:39:00	VL040349.D	0.582	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.39	04102023T17:39:00	VL040349.D	0.402	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.37	04102023T17:39:00	VL040349.D	0.365	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.37	04102023T17:39:00	VL040349.D	0.421	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.38	04102023T17:39:00	VL040349.D	0.397	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.41	04102023T17:39:00	VL040349.D	0.415	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.31	04102023T17:39:00	VL040349.D	0.337	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.44	04102023T17:39:00	VL040349.D	0.51	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.34	04102023T17:39:00	VL040349.D	0.342	04122023T23:23:00	VL040559.D
02232023T15:04:00	VL040332.D	0.028	04102023T19:33:00	VL040346.D	0.025	04122023T19:50:00	VL040576.D
02232023T13:12:00	VL040329.D	0.45	04102023T17:39:00	VL040349.D	0.433	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.45	04102023T17:39:00	VL040349.D	0.453	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.4	04102023T17:39:00	VL040349.D	0.487	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.43	04102023T17:39:00	VL040349.D	0.456	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.47	04102023T17:39:00	VL040349.D	0.455	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.38	04102023T17:39:00	VL040349.D	0.376	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.29	04102023T17:39:00	VL040349.D	0.287	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.29	04102023T17:39:00	VL040349.D	0.35	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.35	04102023T17:39:00	VL040349.D	0.339	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.51	04102023T17:39:00	VL040349.D	0.483	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.46	04102023T17:39:00	VL040349.D	0.467	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.39	04102023T17:39:00	VL040349.D	0.394	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.32	04102023T17:39:00	VL040349.D	0.31	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.33	04102023T17:39:00	VL040349.D	0.336	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.45	04102023T17:39:00	VL040349.D	0.441	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.37	04102023T17:39:00	VL040349.D	0.365	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.47	04102023T17:39:00	VL040349.D	0.442	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.38	04102023T17:39:00	VL040349.D	0.363	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.66	04102023T17:39:00	VL040349.D	0.659	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.31	04102023T17:39:00	VL040349.D	0.305	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.41	04102023T17:39:00	VL040349.D	0.362	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.47	04102023T17:39:00	VL040349.D	0.533	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.26	04102023T17:39:00	VL040349.D	0.261	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.21	04102023T17:39:00	VL040349.D	0.19	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.33	04102023T17:39:00	VL040349.D	0.334	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.35	04102023T17:39:00	VL040349.D	0.345	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.31	04102023T17:39:00	VL040349.D	0.327	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.32	04102023T17:39:00	VL040349.D	0.314	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.42	04102023T17:39:00	VL040349.D	0.465	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.35	04102023T17:39:00	VL040349.D	0.335	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.26	04102023T17:39:00	VL040349.D	0.257	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.27	04102023T17:39:00	VL040349.D	0.256	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.46	04102023T17:39:00	VL040349.D	0.427	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.34	04102023T17:39:00	VL040349.D	0.327	04122023T23:23:00	VL040559.D
02232023T15:04:00	VL040332.D	0.022	04102023T19:33:00	VL040346.D	0.029	04122023T19:50:00	VL040576.D
02232023T13:12:00	VL040329.D	0.3	04102023T17:39:00	VL040349.D	0.347	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.29	04102023T17:39:00	VL040349.D	0.291	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.37	04102023T17:39:00	VL040349.D	0.391	04122023T23:23:00	VL040559.D
02232023T15:04:00	VL040332.D	0.029	04102023T19:33:00	VL040346.D	0.028	04122023T19:50:00	VL040576.D
02232023T13:12:00	VL040329.D	0.45	04102023T17:39:00	VL040349.D	0.47	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.37	04102023T17:39:00	VL040349.D	0.58	04122023T23:23:00	VL040559.D
02232023T15:04:00	VL040332.D	0.024	04102023T19:33:00	VL040346.D	0.029	04122023T19:50:00	VL040576.D

Concentration13	Adate13	Datafile14	Concentration14	Adate14	Datafile15	Concentration15	Adate15
0.48	07272023T03:27:00	VL040579.D	0.42	07312023T19:20:00	VL040747.D	0.488	10042023T19:33:00
0.03	07312023T17:18:00	VL040581.D	0.031	07312023T20:41:00	VL040772.D	0.035	10122023T01:48:00
0.031	07312023T17:18:00	VL040581.D	0.026	07312023T20:41:00	VL040772.D	0.029	10122023T01:48:00
0.459	07272023T03:27:00	VL040579.D	0.36	07312023T19:20:00	VL040747.D	0.405	10042023T19:33:00
0.573	07272023T03:27:00	VL040579.D	0.5	07312023T19:20:00	VL040747.D	0.557	10042023T19:33:00
0.535	07272023T03:27:00	VL040579.D	0.43	07312023T19:20:00	VL040747.D	0.527	10042023T19:33:00
0.527	07272023T03:27:00	VL040579.D	0.42	07312023T19:20:00	VL040747.D	0.481	10042023T19:33:00
0.33	07272023T03:27:00	VL040579.D	0.23	07312023T19:20:00	VL040747.D	0.305	10042023T19:33:00
0.389	07272023T03:27:00	VL040579.D	0.3	07312023T19:20:00	VL040747.D	0.361	10042023T19:33:00
0.425	07272023T03:27:00	VL040579.D	0.32	07312023T19:20:00	VL040747.D	0.359	10042023T19:33:00
0.442	07272023T03:27:00	VL040579.D	0.36	07312023T19:20:00	VL040747.D	0.45	10042023T19:33:00
0.519	07272023T03:27:00	VL040579.D	0.41	07312023T19:20:00	VL040747.D	0.426	10042023T19:33:00
0.452	07272023T03:27:00	VL040579.D	0.36	07312023T19:20:00	VL040747.D	0.42	10042023T19:33:00
0.33	07272023T03:27:00	VL040579.D	0.26	07312023T19:20:00	VL040747.D	0.321	10042023T19:33:00
0.412	07272023T03:27:00	VL040579.D	0.41	07312023T19:20:00	VL040747.D	0.466	10042023T19:33:00
0.388	07272023T03:27:00	VL040579.D	0.33	07312023T19:20:00	VL040747.D	0.412	10042023T19:33:00
0.438	07272023T03:27:00	VL040579.D	0.36	07312023T19:20:00	VL040747.D	0.382	10042023T19:33:00
0.373	07272023T03:27:00	VL040579.D	0.29	07312023T19:20:00	VL040747.D	0.257	10042023T19:33:00
0.398	07272023T03:27:00	VL040579.D	0.27	07312023T19:20:00	VL040747.D	0.335	10042023T19:33:00
0.448	07272023T03:27:00	VL040579.D	0.37	07312023T19:20:00	VL040747.D	0.443	10042023T19:33:00
0.35	07272023T03:27:00	VL040579.D	0.27	07312023T19:20:00	VL040747.D	0.325	10042023T19:33:00
0.303	07272023T03:27:00	VL040579.D	0.22	07312023T19:20:00	VL040747.D	0.283	10042023T19:33:00
0.32	07272023T03:27:00	VL040579.D	0.23	07312023T19:20:00	VL040747.D	0.317	10042023T19:33:00
0.348	07272023T03:27:00	VL040579.D	0.27	07312023T19:20:00	VL040747.D	0.302	10042023T19:33:00
0.674	07272023T03:27:00	VL040579.D	0.48	07312023T19:20:00	VL040747.D	0.65	10042023T19:33:00
0.436	07272023T03:27:00	VL040579.D	0.37	07312023T19:20:00	VL040747.D	0.511	10042023T19:33:00
0.397	07272023T03:27:00	VL040579.D	0.3	07312023T19:20:00	VL040747.D	0.386	10042023T19:33:00
0.425	07272023T03:27:00	VL040579.D	0.34	07312023T19:20:00	VL040747.D	0.307	10042023T19:33:00
0.467	07272023T03:27:00	VL040579.D	0.4	07312023T19:20:00	VL040747.D	0.409	10042023T19:33:00
0.508	07272023T03:27:00	VL040579.D	0.42	07312023T19:20:00	VL040747.D	0.506	10042023T19:33:00
0.352	07272023T03:27:00	VL040579.D	0.33	07312023T19:20:00	VL040747.D	0.349	10042023T19:33:00
0.543	07272023T03:27:00	VL040579.D	0.46	07312023T19:20:00	VL040747.D	0.496	10042023T19:33:00
0.46	07272023T03:27:00	VL040579.D	0.42	07312023T19:20:00	VL040747.D	0.477	10042023T19:33:00
0.036	07312023T17:18:00	VL040581.D	0.033	07312023T20:41:00	VL040772.D	0.031	10122023T01:48:00
0.481	07272023T03:27:00	VL040579.D	0.38	07312023T19:20:00	VL040747.D	0.489	10042023T19:33:00
0.526	07272023T03:27:00	VL040579.D	0.45	07312023T19:20:00	VL040747.D	0.55	10042023T19:33:00
0.516	07272023T03:27:00	VL040579.D	0.43	07312023T19:20:00	VL040747.D	0.576	10042023T19:33:00
0.521	07272023T03:27:00	VL040579.D	0.41	07312023T19:20:00	VL040747.D	0.501	10042023T19:33:00
0.486	07272023T03:27:00	VL040579.D	0.39	07312023T19:20:00	VL040747.D	0.544	10042023T19:33:00
0.405	07272023T03:27:00	VL040579.D	0.32	07312023T19:20:00	VL040747.D	0.431	10042023T19:33:00
0.295	07272023T03:27:00	VL040579.D	0.25	07312023T19:20:00	VL040747.D	0.298	10042023T19:33:00
0.301	07272023T03:27:00	VL040579.D	0.21	07312023T19:20:00	VL040747.D	0.317	10042023T19:33:00
0.403	07272023T03:27:00	VL040579.D	0.35	07312023T19:20:00	VL040747.D	0.381	10042023T19:33:00
0.54	07272023T03:27:00	VL040579.D	0.47	07312023T19:20:00	VL040747.D	0.562	10042023T19:33:00
0.516	07272023T03:27:00	VL040579.D	0.46	07312023T19:20:00	VL040747.D	0.509	10042023T19:33:00
0.424	07272023T03:27:00	VL040579.D	0.34	07312023T19:20:00	VL040747.D	0.441	10042023T19:33:00
0.32	07272023T03:27:00	VL040579.D	0.21	07312023T19:20:00	VL040747.D	0.299	10042023T19:33:00
0.341	07272023T03:27:00	VL040579.D	0.25	07312023T19:20:00	VL040747.D	0.355	10042023T19:33:00
0.466	07272023T03:27:00	VL040579.D	0.37	07312023T19:20:00	VL040747.D	0.479	10042023T19:33:00
0.38	07272023T03:27:00	VL040579.D	0.31	07312023T19:20:00	VL040747.D	0.465	10042023T19:33:00
0.451	07272023T03:27:00	VL040579.D	0.43	07312023T19:20:00	VL040747.D	0.426	10042023T19:33:00
0.379	07272023T03:27:00	VL040579.D	0.29	07312023T19:20:00	VL040747.D	0.386	10042023T19:33:00
0.735	07272023T03:27:00	VL040579.D	0.54	07312023T19:20:00	VL040747.D	0.682	10042023T19:33:00
0.283	07272023T03:27:00	VL040579.D	0.23	07312023T19:20:00	VL040747.D	0.324	10042023T19:33:00
0.468	07272023T03:27:00	VL040579.D	0.38	07312023T19:20:00	VL040747.D	0.472	10042023T19:33:00
0.619	07272023T03:27:00	VL040579.D	0.62	07312023T19:20:00	VL040747.D	0.625	10042023T19:33:00
0.274	07272023T03:27:00	VL040579.D	0.19	07312023T19:20:00	VL040747.D	0.258	10042023T19:33:00
0.107	07272023T03:27:00	VL040579.D	0.06	07312023T19:20:00	VL040747.D	0.133	10042023T19:33:00
0.361	07272023T03:27:00	VL040579.D	0.27	07312023T19:20:00	VL040747.D	0.343	10042023T19:33:00
0.355	07272023T03:27:00	VL040579.D	0.27	07312023T19:20:00	VL040747.D	0.369	10042023T19:33:00
0.355	07272023T03:27:00	VL040579.D	0.26	07312023T19:20:00	VL040747.D	0.301	10042023T19:33:00
0.357	07272023T03:27:00	VL040579.D	0.26	07312023T19:20:00	VL040747.D	0.313	10042023T19:33:00
0.436	07272023T03:27:00	VL040579.D	0.34	07312023T19:20:00	VL040747.D	0.471	10042023T19:33:00
0.393	07272023T03:27:00	VL040579.D	0.29	07312023T19:20:00	VL040747.D	0.354	10042023T19:33:00
0.242	07272023T03:27:00	VL040579.D	0.17	07312023T19:20:00	VL040747.D	0.266	10042023T19:33:00
0.283	07272023T03:27:00	VL040579.D	0.23	07312023T19:20:00	VL040747.D	0.312	10042023T19:33:00
0.539	07272023T03:27:00	VL040579.D	0.43	07312023T19:20:00	VL040747.D	0.394	10042023T19:33:00
0.366	07272023T03:27:00	VL040579.D	0.28	07312023T19:20:00	VL040747.D	0.381	10042023T19:33:00
0.025	07312023T17:18:00	VL040581.D	0.028	07312023T20:41:00	VL040772.D	0.044	10122023T01:48:00
0.353	07272023T03:27:00	VL040579.D	0.26	07312023T19:20:00	VL040747.D	0.351	10042023T19:33:00
0.285	07272023T03:27:00	VL040579.D	0.2	07312023T19:20:00	VL040747.D	0.288	10042023T19:33:00
0.477	07272023T03:27:00	VL040579.D	0.4	07312023T19:20:00	VL040747.D	0.507	10042023T19:33:00
0.027	07312023T17:18:00	VL040581.D	0.027	07312023T20:41:00	VL040772.D	0.039	10122023T01:48:00
0.589	07272023T03:27:00	VL040579.D	0.52	07312023T19:20:00	VL040747.D	0.561	10042023T19:33:00
0.487	07272023T03:27:00	VL040579.D	0.46	07312023T19:20:00	VL040747.D	0.456	10042023T19:33:00
0.03	07312023T17:18:00	VL040581.D	0.033	07312023T20:41:00	VL040772.D	0.041	10122023T01:48:00

Datafile16	Concentration16	Adate16	Department	AVG Concentration	Recovery
VL040805.D	0.428	10252023T18:12:00	VOC	0.45	110
VL040787.D	0.04	10232023T20:32:00	VOC	0.032	110
VL040787.D	0.04	10232023T20:32:00	VOC	0.03	100
VL040805.D	0.471	10252023T18:12:00	VOC	0.42	110
VL040805.D	0.476	10252023T18:12:00	VOC	0.48	120
VL040805.D	0.427	10252023T18:12:00	VOC	0.46	110
VL040805.D	0.47	10252023T18:12:00	VOC	0.45	110
VL040805.D	0.288	10252023T18:12:00	VOC	0.31	79
VL040805.D	0.435	10252023T18:12:00	VOC	0.37	93
VL040805.D	0.433	10252023T18:12:00	VOC	0.38	95
VL040805.D	0.405	10252023T18:12:00	VOC	0.41	100
VL040805.D	0.501	10252023T18:12:00	VOC	0.44	110
VL040805.D	0.456	10252023T18:12:00	VOC	0.42	100
VL040805.D	0.403	10252023T18:12:00	VOC	0.35	87
VL040805.D	0.455	10252023T18:12:00	VOC	0.44	110
VL040805.D	0.412	10252023T18:12:00	VOC	0.4	100
VL040805.D	0.414	10252023T18:12:00	VOC	0.4	100
VL040805.D	0.486	10252023T18:12:00	VOC	0.38	96
VL040805.D	0.434	10252023T18:12:00	VOC	0.37	93
VL040805.D	0.467	10252023T18:12:00	VOC	0.42	100
VL040805.D	0.42	10252023T18:12:00	VOC	0.35	88
VL040805.D	0.353	10252023T18:12:00	VOC	0.3	75
VL040805.D	0.397	10252023T18:12:00	VOC	0.34	84
VL040805.D	0.403	10252023T18:12:00	VOC	0.34	84
VL040805.D	0.576	10252023T18:12:00	VOC	0.53	130
VL040805.D	0.422	10252023T18:12:00	VOC	0.43	110
VL040805.D	0.445	10252023T18:12:00	VOC	0.38	96
VL040805.D	0.205	10252023T18:12:00	VOC	0.36	91
VL040805.D	0.458	10252023T18:12:00	VOC	0.4	100
VL040805.D	0.436	10252023T18:12:00	VOC	0.44	110
VL040805.D	0.34	10252023T18:12:00	VOC	0.33	82
VL040805.D	0.508	10252023T18:12:00	VOC	0.47	120
VL040805.D	0.361	10252023T18:12:00	VOC	0.38	95
VL040787.D	0.04	10232023T20:32:00	VOC	0.031	100
VL040805.D	0.454	10252023T18:12:00	VOC	0.45	110
VL040805.D	0.517	10252023T18:12:00	VOC	0.48	120
VL040805.D	0.435	10252023T18:12:00	VOC	0.47	120
VL040805.D	0.487	10252023T18:12:00	VOC	0.45	110
VL040805.D	0.458	10252023T18:12:00	VOC	0.46	120
VL040805.D	0.435	10252023T18:12:00	VOC	0.4	99
VL040805.D	0.335	10252023T18:12:00	VOC	0.3	75
VL040805.D	0.416	10252023T18:12:00	VOC	0.39	96
VL040805.D	0.384	10252023T18:12:00	VOC	0.36	89
VL040805.D	0.516	10252023T18:12:00	VOC	0.54	140
VL040805.D	0.505	10252023T18:12:00	VOC	0.48	120
VL040805.D	0.404	10252023T18:12:00	VOC	0.4	100
VL040805.D	0.406	10252023T18:12:00	VOC	0.33	82
VL040805.D	0.404	10252023T18:12:00	VOC	0.35	88
VL040805.D	0.446	10252023T18:12:00	VOC	0.45	110
VL040805.D	0.452	10252023T18:12:00	VOC	0.4	100
VL040805.D	0.442	10252023T18:12:00	VOC	0.45	110
VL040805.D	0.435	10252023T18:12:00	VOC	0.38	96
VL040805.D	0.888	10252023T18:12:00	VOC	0.72	180
VL040805.D	0.348	10252023T18:12:00	VOC	0.32	80
VL040805.D	0.353	10252023T18:12:00	VOC	0.41	100
VL040805.D	0.619	10252023T18:12:00	VOC	0.56	140
VL040805.D	0.226	10252023T18:12:00	VOC	0.27	66
VL040805.D	0	10252023T18:12:00	VOC	0.14	35
VL040805.D	0.415	10252023T18:12:00	VOC	0.35	88
VL040805.D	0.389	10252023T18:12:00	VOC	0.35	89
VL040805.D	0.439	10252023T18:12:00	VOC	0.35	87
VL040805.D	0.381	10252023T18:12:00	VOC	0.34	85
VL040805.D	0.467	10252023T18:12:00	VOC	0.46	110
VL040805.D	0.449	10252023T18:12:00	VOC	0.37	93
VL040805.D	0.35	10252023T18:12:00	VOC	0.27	67
VL040805.D	0.291	10252023T18:12:00	VOC	0.28	70
VL040805.D	0.37	10252023T18:12:00	VOC	0.45	110
VL040805.D	0.427	10252023T18:12:00	VOC	0.37	92
VL040787.D	0.04	10232023T20:32:00	VOC	0.032	110
VL040805.D	0.416	10252023T18:12:00	VOC	0.35	88
VL040805.D	0.38	10252023T18:12:00	VOC	0.31	78
VL040805.D	0.435	10252023T18:12:00	VOC	0.43	110
VL040787.D	0.05	10232023T20:32:00	VOC	0.033	110
VL040805.D	0.506	10252023T18:12:00	VOC	0.48	120
VL040805.D	0.341	10252023T18:12:00	VOC	0.43	110
VL040787.D	0.04	10232023T20:32:00	VOC	0.033	110
			VOC	0.544	136

QC SUMMARY

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Surrogate Summary

SDG No.: Q1668

Client: Woodard & Curran

Analytical Method: SWTO-15

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits Low	Limits High
Q1668-01	IA-B1-4-3252025	1-Bromo-4-Fluorobenzene	10	10.2	102	70 (65)	130 (135)
Q1668-01DL	IA-B1-4-3252025DL	1-Bromo-4-Fluorobenzene	10	10.0	100	70 (65)	130 (135)
Q1668-01DUP	IA-B1-4-3252025DUP	1-Bromo-4-Fluorobenzene	10	10.1	101	70 (65)	130 (135)
Q1668-02	IA-B1-2-3252025	1-Bromo-4-Fluorobenzene	10	9.86	99	70 (65)	130 (135)
Q1668-03	IA-B1-3-3252025	1-Bromo-4-Fluorobenzene	10	9.92	99	70 (65)	130 (135)
Q1668-03DL	IA-B1-3-3252025DL	1-Bromo-4-Fluorobenzene	10	10.2	102	70 (65)	130 (135)
Q1668-04	IA-B1-1-3252025	1-Bromo-4-Fluorobenzene	10	9.94	99	70 (65)	130 (135)
VL0417ABL01	VL0417ABL01	1-Bromo-4-Fluorobenzene	10	10.1	101	70 (65)	130 (135)
VL0417ABS01	VL0417ABS01	1-Bromo-4-Fluorobenzene	10	10.1	101	70 (65)	130 (135)

( ) = LABORATORY INHOUSE LIMIT

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1668

Client: Woodard & Curran

Analytical Method: SWTO-15 **Datafile :** VL042358.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VL0417ABS01	Dichlorodifluoromethane	10	10.3	ppbv	103			40 (70)	160 (130)	
	Chloromethane	10	10.1	ppbv	101			40 (70)	160 (130)	
	Vinyl Chloride	10	9.00	ppbv	90			70 (70)	130 (130)	
	Bromomethane	10	9.20	ppbv	92			40 (70)	160 (130)	
	Chloroethane	10	10.1	ppbv	101			40 (70)	160 (130)	
	Tetrahydrofuran	10	9.70	ppbv	97			70 (70)	130 (130)	
	Trichlorofluoromethane	10	10.1	ppbv	101			40 (70)	160 (130)	
	1,1,2-Trichlorotrifluoroethane	10	10.1	ppbv	101			70 (70)	130 (130)	
	Dichlorotetrafluoethane	10	10.2	ppbv	102			70 (70)	130 (130)	
	tert-Butyl Alcohol	10	9.80	ppbv	98			70 (70)	130 (130)	
	Heptane	10	9.20	ppbv	92			70 (70)	130 (130)	
	1,1-Dichloroethene	10	9.80	ppbv	98			70 (70)	130 (130)	
	Acetone	10	8.70	ppbv	87			40 (70)	160 (130)	
	Carbon disulfide	10	10.2	ppbv	102			40 (70)	160 (130)	
	Methyl tert-butyl Ether	10	9.50	ppbv	95			70 (70)	130 (130)	
	Methylene Chloride	10	8.90	ppbv	89			70 (70)	130 (130)	
	trans-1,2-Dichloroethene	10	9.70	ppbv	97			70 (70)	130 (130)	
	1,1-Dichloroethane	10	10.2	ppbv	102			70 (70)	130 (130)	
	Cyclohexane	10	10.1	ppbv	101			70 (70)	130 (130)	
	2-Butanone	10	9.80	ppbv	98			40 (70)	160 (130)	
	Carbon Tetrachloride	10	9.60	ppbv	96			70 (70)	130 (130)	
	cis-1,2-Dichloroethene	10	10.4	ppbv	104			70 (70)	130 (130)	
	Chloroform	10	10.2	ppbv	102			70 (70)	130 (130)	
	1,1,1-Trichloroethane	10	9.70	ppbv	97			70 (70)	130 (130)	
	2,2,4-Trimethylpentane	10	10.0	ppbv	100			70 (70)	130 (130)	
	Benzene	10	10.1	ppbv	101			70 (70)	130 (130)	
	1,2-Dichloroethane	10	10.4	ppbv	104			70 (70)	130 (130)	
	Trichloroethene	10	9.30	ppbv	93			70 (70)	130 (130)	
	1,2-Dichloropropane	10	9.90	ppbv	99			70 (70)	130 (130)	
	Bromodichloromethane	10	10.3	ppbv	103			70 (70)	130 (130)	
	4-Methyl-2-Pentanone	10	8.80	ppbv	88			40 (70)	160 (130)	
	Toluene	10	9.80	ppbv	98			70 (70)	130 (130)	
	t-1,3-Dichloropropene	10	9.90	ppbv	99			70 (70)	130 (130)	
	cis-1,3-Dichloropropene	10	10.1	ppbv	101			70 (70)	130 (130)	
	1,1,2-Trichloroethane	10	10.2	ppbv	102			70 (70)	130 (130)	
	Dibromochloromethane	10	10.3	ppbv	103			70 (70)	130 (130)	
	1,2-Dibromoethane	10	9.90	ppbv	99			70 (70)	130 (130)	
	Tetrachloroethene	10	8.80	ppbv	88			70 (70)	130 (130)	
	Chlorobenzene	10	10.0	ppbv	100			70 (70)	130 (130)	
	Ethyl Benzene	10	10.0	ppbv	100			70 (70)	130 (130)	
	m/p-Xylene	20	19.8	ppbv	99			70 (70)	130 (130)	
	o-Xylene	10	9.80	ppbv	98			70 (70)	130 (130)	
	Styrene	10	10.1	ppbv	101			70 (70)	130 (130)	
	Bromoform	10	9.90	ppbv	99			70 (70)	130 (130)	
	1,1,2,2-Tetrachloroethane	10	8.90	ppbv	89			70 (70)	130 (130)	
	2-Chlorotoluene	10	9.90	ppbv	99			70 (70)	130 (130)	
	1,3,5-Trimethylbenzene	10	9.60	ppbv	96			70 (70)	130 (130)	
	1,2,4-Trimethylbenzene	10	9.00	ppbv	90			70 (70)	130 (130)	

( ) = LABORATORY INHOUSE LIMIT

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1668

Client: Woodard & Curran

Analytical Method: SWTO-15 **Datafile :** VL042358.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VL0417ABS01	1,3-Dichlorobenzene	10	9.50	ppbv	95			70 (70)	130 (130)	
	1,4-Dichlorobenzene	10	9.40	ppbv	94			70 (70)	130 (130)	
	1,2-Dichlorobenzene	10	9.50	ppbv	95			70 (70)	130 (130)	
	1,2,4-Trichlorobenzene	10	9.40	ppbv	94			70 (70)	130 (130)	
	Hexachloro-1,3-butadiene	10	9.10	ppbv	91			70 (70)	130 (130)	
	Naphthalene	10	9.00	ppbv	90			40 (70)	160 (130)	
	1,3-Butadiene	10	9.10	ppbv	91			70 (70)	130 (130)	
	4-Ethyltoluene	10	9.60	ppbv	96			70 (70)	130 (130)	
	Hexane	10	9.80	ppbv	98			70 (70)	130 (130)	
	Allyl Chloride	10	9.70	ppbv	97			70 (70)	130 (130)	
	1,4-Dioxane	10	8.70	ppbv	87			40 (70)	160 (130)	
	Methyl methacrylate	10	9.30	ppbv	93			70 (70)	130 (130)	

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284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Duplicate Sample Summary

Lab Sample Id :	Q1668-01DUP		Q1668-01	
Client Id :	IA-B1-4-3252025DUP		IA-B1-4-3252025	
DF :	1		1	
Datafile :	VL042362.D		VL042361.D	
Anal Date & Time :	04/17/2025	17:51	04/17/2025	17:17

Parameter	Result	Result	RPD
1,1,1-Trichloroethane	0	0	0
1,1,2,2-Tetrachloroethane	0	0	0
1,1,2-Trichloroethane	0	0	0
1,1,2-Trichlorotrifluoroethane	0	0	0
1,1-Dichloroethane	0	0	0
1,1-Dichloroethene	0	0	0
1,2,4-Trichlorobenzene	0	0	0
1,2,4-Trimethylbenzene	3.9	3.8	2.6
1,2-Dibromoethane	0	0	0
1,2-Dichlorobenzene	0	0	0
1,2-Dichloroethane	0	0	0
1,2-Dichloropropane	0	0	0
1,3,5-Trimethylbenzene	1.3	1.3	0
1,3-Butadiene	0	0	0
1,3-Dichlorobenzene	0	0	0
1,4-Dichlorobenzene	0	0	0
1,4-Dioxane	0	0	0
2,2,4-Trimethylpentane	0.17	0.19	11.1
2-Butanone	0.69	0.69	0
2-Chlorotoluene	0	0	0
4-Ethyltoluene	1.1	1	9.5
4-Methyl-2-Pentanone	19.4	19.6	1
Acetone	5.2	5.3	1.9
Allyl Chloride	0	0	0
Benzene	0.53	0.56	5.5
Bromodichloromethane	0	0	0
Bromoform	0	0	0
Bromomethane	0	0	0
Carbon Disulfide	0.6	0.63	4.9
Carbon Tetrachloride	0.08	0.08	0

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Duplicate Sample Summary

Lab Sample Id :	Q1668-01DUP	Q1668-01
Client Id :	IA-B1-4-3252025DUP	IA-B1-4-3252025
DF :	1	1
Datafile :	VL042362.D	VL042361.D
Anal Date & Time :	04/17/2025 17:51	04/17/2025 17:17

Parameter	Result	Result	RPD
Chlorobenzene	0	0	0
Chloroethane	0	0	0
Chloroform	0	0	0
Chloromethane	0.47	0.53	12
cis-1,2-Dichloroethene	0	0	0
cis-1,3-Dichloropropene	0	0	0
Cyclohexane	3.4	3.3	3
Dibromochloromethane	0	0	0
Dichlorodifluoromethane	0.45	0.46	2.2
Dichlorotetrafluoroethane	0	0	0
Ethyl Benzene	0.95	0.94	1.1
Heptane	1.9	1.9	0
Hexachloro-1,3-Butadiene	0	0	0
Hexane	2.9	3	3.4
m/p-Xylene	9.2	9.4	2.2
Methyl Methacrylate	0	0	0
Methyl tert-Butyl Ether	0	0	0
Methylene Chloride	2.8	2.8	0
Naphthalene	0.63	0.6	4.9
o-Xylene	2	2	0
Styrene	1.6	1.6	0
t-1,3-Dichloropropene	0	0	0
tert-Butyl alcohol	0	0	0
Tetrachloroethene	0.04	0.05	22.2 *
Tetrahydrofuran	0	0	0
Toluene	1.6	1.6	0
trans-1,2-Dichloroethene	0	0	0
Trichloroethene	0	0	0
Trichlorofluoromethane	0.23	0.24	4.3
Vinyl Chloride	0	0	0

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VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VL0417ABL01

Lab Name: CHEMTECH Contract: WOOD06

Lab Code: CHEM Case No.: Q1668 SAS No.: Q1668 SDG NO.: Q1668

Lab File ID: VL042357.D Lab Sample ID: VL0417ABL01

Date Analyzed: 04/17/2025 Time Analyzed: 14:23

GC Column: RTX-1 ID: 0.32 (mm) Heated Purge: (Y/N) N

Instrument ID: MSVOA_L

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VL0417ABS01	VL0417ABS01	VL042358.D	04/17/2025
IA-B1-4-3252025	Q1668-01	VL042361.D	04/17/2025
IA-B1-4-3252025DUP	Q1668-01DUP	VL042362.D	04/17/2025
IA-B1-3-3252025	Q1668-03	VL042363.D	04/17/2025
IA-B1-1-3252025	Q1668-04	VL042364.D	04/17/2025
IA-B1-2-3252025	Q1668-02	VL042365.D	04/17/2025
IA-B1-4-3252025DL	Q1668-01DL	VL042374.D	04/18/2025
IA-B1-3-3252025DL	Q1668-03DL	VL042375.D	04/18/2025

COMMENTS:

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: WOOD06

Lab Code: CHEM Case No.: Q1668 SAS No.: Q1668 SDG NO.: Q1668

Lab File ID: VL042348.D BFB Injection Date: 04/17/2025

Instrument ID: MSVOA_L BFB Injection Time: 07:50

GC Column: RTX-1 ID: 0.32 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	23.1
75	30.0 - 66.0% of mass 95	57
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	0.0 (0.0) 1
174	50.0 - 120.0% of mass 95	59.5
175	4.0 - 9.0% of mass 174	4.5 (7.6) 1
176	93.0 - 101.0% of mass 174	57.6 (96.9) 1
177	5.0 - 9.0% of mass 176	3.6 (6.3) 2

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

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDICCC010	VSTDICCC010	VL042349.D	04/17/2025	09:44
VSTDICC002	VSTDICC002	VL042350.D	04/17/2025	10:17
VSTDICC001	VSTDICC001	VL042351.D	04/17/2025	10:48
VSTDICC0.5	VSTDICC0.5	VL042352.D	04/17/2025	11:19
VSTDICC0.1	VSTDICC0.1	VL042353.D	04/17/2025	11:50
VSTDICC0.03	VSTDICC0.03	VL042354.D	04/17/2025	12:22
VSTDICC015	VSTDICC015	VL042355.D	04/17/2025	12:54
VL0417ABL01	VL0417ABL01	VL042357.D	04/17/2025	14:23
VL0417ABS01	VL0417ABS01	VL042358.D	04/17/2025	15:39
IA-B1-4-3252025	Q1668-01	VL042361.D	04/17/2025	17:17
IA-B1-4-3252025DUP	Q1668-01DUP	VL042362.D	04/17/2025	17:51
IA-B1-3-3252025	Q1668-03	VL042363.D	04/17/2025	18:24
IA-B1-1-3252025	Q1668-04	VL042364.D	04/17/2025	18:58
IA-B1-2-3252025	Q1668-02	VL042365.D	04/17/2025	19:31
IA-B1-4-3252025DL	Q1668-01DL	VL042374.D	04/18/2025	00:28
IA-B1-3-3252025DL	Q1668-03DL	VL042375.D	04/18/2025	00:59

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: WOOD06

Lab Code: CHEM Case No.: Q1668 SAS No.: Q1668 SDG NO.: Q1668

Lab File ID: VL042349.D Date Analyzed: 04/17/2025

Instrument ID: MSVOA_L Time Analyzed: 09:44

GC Column: RTX-1 ID: 0.32 (mm) Heated Purge: (Y/N) N

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	125455	2.79	366544	3.96	338126	8.88
UPPER LIMIT	175637	3.12	513162	4.29	473376	9.21
LOWER LIMIT	75273	2.46	219926	3.63	202876	8.55
EPA SAMPLE NO.						
IA-B1-4-3252025	118680	2.79	339191	3.96	303501	8.89
IA-B1-4-3252025DL	104470	2.79	294101	3.96	258444	8.88
IA-B1-4-3252025DUP	122226	2.79	344143	3.96	303859	8.88
IA-B1-2-3252025	121182	2.79	339124	3.96	302443	8.88
IA-B1-3-3252025	117934	2.79	342044	3.96	304398	8.88
IA-B1-3-3252025DL	102685	2.79	291278	3.96	253844	8.88
IA-B1-1-3252025	117691	2.79	343133	3.96	303219	8.89
VL0417ABL01	113566	2.79	328716	3.97	297633	8.89
VL0417ABS01	122375	2.79	352201	3.97	321521	8.89

IS1 = Bromochloromethane
IS2 = 1,4-Difluorobenzene
IS3 = Chlorobenzene-d5

AREA UPPER LIMIT = +40% of internal standard area
AREA LOWER LIMIT = -40% of internal standard area
RT UPPER LIMIT = +0.33 minutes of internal standard RT
RT LOWER LIMIT = -0.33 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

SAMPLE DATA

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	Woodard & Curran	Date Collected:	03/26/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	03/27/25
Client Sample ID:	IA-B1-4-3252025	SDG No.:	Q1668
Lab Sample ID:	Q1668-01	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042361.D	1		04/17/25 17:17	VL041725

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.46	2.27	J	1.04	2.47	ug/m3
74-87-3	Chloromethane	0.53	1.09		0.21	1.03	ug/m3
75-01-4	Vinyl Chloride	0.010	0.030	U	0.030	0.080	ug/m3
74-83-9	Bromomethane	0.14	0.54	U	0.54	1.94	ug/m3
75-00-3	Chloroethane	0.17	0.45	U	0.45	1.32	ug/m3
109-99-9	Tetrahydrofuran	0.13	0.38	U	0.38	1.47	ug/m3
75-69-4	Trichlorofluoromethane	0.24	1.35	J	0.90	2.81	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	0.16	1.23	U	1.23	3.83	ug/m3
76-14-2	Dichlorotetrafluoroethane	0.090	0.63	U	0.63	3.49	ug/m3
75-65-0	tert-Butyl alcohol	0.19	0.58	U	0.58	1.52	ug/m3
142-82-5	Heptane	1.90	7.79		0.45	2.05	ug/m3
75-35-4	1,1-Dichloroethene	0.14	0.56	U	0.56	1.98	ug/m3
67-64-1	Acetone	5.30	12.6		0.57	1.19	ug/m3
75-15-0	Carbon Disulfide	0.63	1.96		0.50	1.56	ug/m3
1634-04-4	Methyl tert-Butyl Ether	0.12	0.43	U	0.43	1.80	ug/m3
75-09-2	Methylene Chloride	2.80	9.73		0.66	1.74	ug/m3
156-60-5	trans-1,2-Dichloroethene	0.19	0.75	U	0.75	1.98	ug/m3
75-34-3	1,1-Dichloroethane	0.13	0.53	U	0.53	2.02	ug/m3
110-82-7	Cyclohexane	3.30	11.4		0.76	1.72	ug/m3
78-93-3	2-Butanone	0.69	2.04		0.35	1.47	ug/m3
56-23-5	Carbon Tetrachloride	0.080	0.50		0.060	0.19	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.090	0.36	U	0.36	1.98	ug/m3
67-66-3	Chloroform	0.080	0.39	U	0.39	2.44	ug/m3
71-55-6	1,1,1-Trichloroethane	0.010	0.050	U	0.050	0.16	ug/m3
540-84-1	2,2,4-Trimethylpentane	0.19	0.89	J	0.47	2.34	ug/m3
71-43-2	Benzene	0.56	1.79		0.29	1.60	ug/m3
107-06-2	1,2-Dichloroethane	0.090	0.36	U	0.36	2.02	ug/m3
79-01-6	Trichloroethene	0.020	0.11	U	0.11	0.16	ug/m3
78-87-5	1,2-Dichloropropane	0.11	0.51	U	0.51	2.31	ug/m3
75-27-4	Bromodichloromethane	0.080	0.54	U	0.54	3.35	ug/m3
108-10-1	4-Methyl-2-Pentanone	19.6	80.3	E	0.37	2.05	ug/m3
108-88-3	Toluene	1.60	6.03		0.41	1.88	ug/m3
10061-02-6	t-1,3-Dichloropropene	0.060	0.27	U	0.27	2.27	ug/m3
10061-01-5	cis-1,3-Dichloropropene	0.060	0.27	U	0.27	2.27	ug/m3
79-00-5	1,1,2-Trichloroethane	0.070	0.38	U	0.38	2.73	ug/m3

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	Woodard & Curran	Date Collected:	03/26/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	03/27/25
Client Sample ID:	IA-B1-4-3252025	SDG No.:	Q1668
Lab Sample ID:	Q1668-01	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042361.D	1		04/17/25 17:17	VL041725

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	0.070	0.60	U	0.60	4.26	ug/m3
106-93-4	1,2-Dibromoethane	0.070	0.54	U	0.54	0.77	ug/m3
127-18-4	Tetrachloroethene	0.050	0.34		0.14	0.20	ug/m3
108-90-7	Chlorobenzene	0.080	0.37	U	0.37	2.30	ug/m3
100-41-4	Ethyl Benzene	0.94	4.08		0.52	2.17	ug/m3
179601-23-1	m/p-Xylene	9.40	40.8		0.91	4.34	ug/m3
95-47-6	o-Xylene	2.00	8.69		0.52	2.17	ug/m3
100-42-5	Styrene	1.60	6.81		0.47	2.13	ug/m3
75-25-2	Bromoform	0.060	0.62	U	0.62	5.17	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	0.010	0.070	U	0.070	0.21	ug/m3
95-49-8	2-Chlorotoluene	0.11	0.57	U	0.57	2.59	ug/m3
108-67-8	1,3,5-Trimethylbenzene	1.30	6.39		0.54	2.46	ug/m3
95-63-6	1,2,4-Trimethylbenzene	3.80	18.7		0.39	2.46	ug/m3
541-73-1	1,3-Dichlorobenzene	0.080	0.48	U	0.48	3.01	ug/m3
106-46-7	1,4-Dichlorobenzene	0.050	0.30	U	0.30	3.01	ug/m3
95-50-1	1,2-Dichlorobenzene	0.080	0.48	U	0.48	3.01	ug/m3
120-82-1	1,2,4-Trichlorobenzene	0.090	0.67	U	0.67	3.71	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	0.090	0.96	U	0.96	5.33	ug/m3
106-99-0	1,3-Butadiene	0.13	0.29	U	0.29	1.11	ug/m3
91-20-3	Naphthalene	0.60	3.15		0.42	0.52	ug/m3
622-96-8	4-Ethyltoluene	1.00	4.92		0.59	2.46	ug/m3
110-54-3	Hexane	3.00	10.6		0.39	1.76	ug/m3
107-05-1	Allyl Chloride	0.15	0.47	U	0.47	1.57	ug/m3
123-91-1	1,4-Dioxane	0.21	0.76	U	0.76	1.80	ug/m3
80-62-6	Methyl Methacrylate	0.090	0.37	U	0.37	2.05	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	10.2			70 (65) - 130 (135)	102%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	119000		2.787			
540-36-3	1,4-Difluorobenzene	339000		3.959			
3114-55-4	Chlorobenzene-d5	304000		8.885			
TENTITIVE IDENTIFIED COMPOUNDS							
75-45-6	Chlorodifluoromethane	0.30		J		1.48	ppbv
115-07-1	Propene	0.62		J		1.49	ppbv
64-17-5	Ethanol	250		J		1.72	ppbv

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Report of Analysis

Client:	Woodard & Curran	Date Collected:	03/26/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	03/27/25
Client Sample ID:	IA-B1-4-3252025	SDG No.:	Q1668
Lab Sample ID:	Q1668-01	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042361.D	1		04/17/25 17:17	VL041725

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
67-63-0	Isopropyl Alcohol	2.10		J		1.89	ppbv
000107-83-5	Pentane, 2-methyl-	2.00		J		2.48	ppbv
000096-37-7	Cyclopentane, methyl-	2.50		J		3.23	ppbv
000591-76-4	Hexane, 2-methyl-	3.10		J		4.06	ppbv
000589-34-4	Hexane, 3-methyl-	3.90		J		4.27	ppbv
000108-87-2	Cyclohexane, methyl-	2.50		J		5.67	ppbv
000108-94-1	Cyclohexanone	4.40		J		9.63	ppbv
98-82-8	Isopropylbenzene	0.15		J		10.5	ppbv
103-65-1	n-propylbenzene	0.53		J		11.0	ppbv
013475-82-6	Heptane, 2,2,4,6,6-pentamethyl-	2.20		J		11.7	ppbv
000124-18-5	Decane	3.60		J		11.8	ppbv
99-87-6	p-Isopropyltoluene	0.16		J		11.9	ppbv
104-51-8	n-Butylbenzene	0.35		J		12.3	ppbv
002870-04-4	Benzene, 2-ethyl-1,3-dimethyl-	2.00		J		12.6	ppbv
001120-21-4	Undecane	2.40		J		12.8	ppbv
91-57-6	Naphthalene,2-methyl-	0.25		J		14.5	ppbv

U = Not Detected
RL = Reporting Limit
MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Quantitation Report (LSC Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042361.D
Acq On : 17 Apr 2025 17:17
Operator : SY/MD
Sample : Q1668-01
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 18 02:38:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.787	49	118680	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.959	114	339191	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.885	117	303501	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.377	95	254412	10.201	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 102.000%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.499	85	9719	0.463	ppbv		96
3) Chlorodifluoromethane	1.476	51	5942m	0.298	ppbv		
4) Chloromethane	1.535	50	4388	0.529	ppbv	#	83
9) Propene	1.486	41	5612	0.617	ppbv		87
10) Heptane	4.982	43	49177	1.925	ppbv		98
11) Trichlorofluoromethane	1.878	101	4685	0.235	ppbv		98
13) Ethanol	1.722	45	357077	247.060	ppbv		76
15) Acetone	1.836	43	102271	5.264	ppbv		92
19) Isopropyl Alcohol	1.888	45	23025	2.133	ppbv	#	3
20) Methylene Chloride	2.062	84	21165	2.782	ppbv	#	80
26) Hexane	2.826	57	57707	2.977	ppbv	#	32
27) Carbon Disulfide	2.150	76	12989	0.626	ppbv	#	1
30) Cyclohexane	3.862	84	52016	3.319	ppbv		99
34) 2-Butanone	2.564	43	18598	0.693	ppbv		98
35) Carbon Tetrachloride	3.771	117	2493m	0.081	ppbv		
36) Benzene	3.658	78	20521	0.561	ppbv		98
44) 2,2,4-Trimethylpentane	4.642	57	11677m	0.185	ppbv		
50) 4-Methyl-2-Pentanone	5.755	43	873418	19.593	ppbv		99
52) Tetrachloroethene	8.231	164	746m	0.053	ppbv		
53) Toluene	6.933	91	68700	1.565	ppbv		100
58) Ethyl Benzene	9.361	91	56772	0.944	ppbv		94
59) m/p-Xylene	9.536	91	454491	9.382	ppbv		100
60) o-Xylene	9.966	91	95896	1.966	ppbv		99
61) Styrene	9.872	104	37931	1.629	ppbv		98
62) Isopropylbenzene	10.542	105	10580	0.148	ppbv		95
64) n-propylbenzene	10.992	120	9483	0.527	ppbv		96
69) p-Isopropyltoluene	11.928	119	12502	0.157	ppbv		99
70) n-Butylbenzene	12.287	91	28567	0.345	ppbv	#	43
72) 4-Ethyltoluene	11.128	105	61306	1.028	ppbv	#	56
73) 1,3,5-Trimethylbenzene	11.206	105	67763	1.287	ppbv		99
74) 1,2,4-Trimethylbenzene	11.539	105	234839	3.819	ppbv	#	65
79) Naphthalene	13.517	128	44224	0.601	ppbv		99
80) Naphthalene,2-methyl-	14.459	142	10408	0.248	ppbv	#	74

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

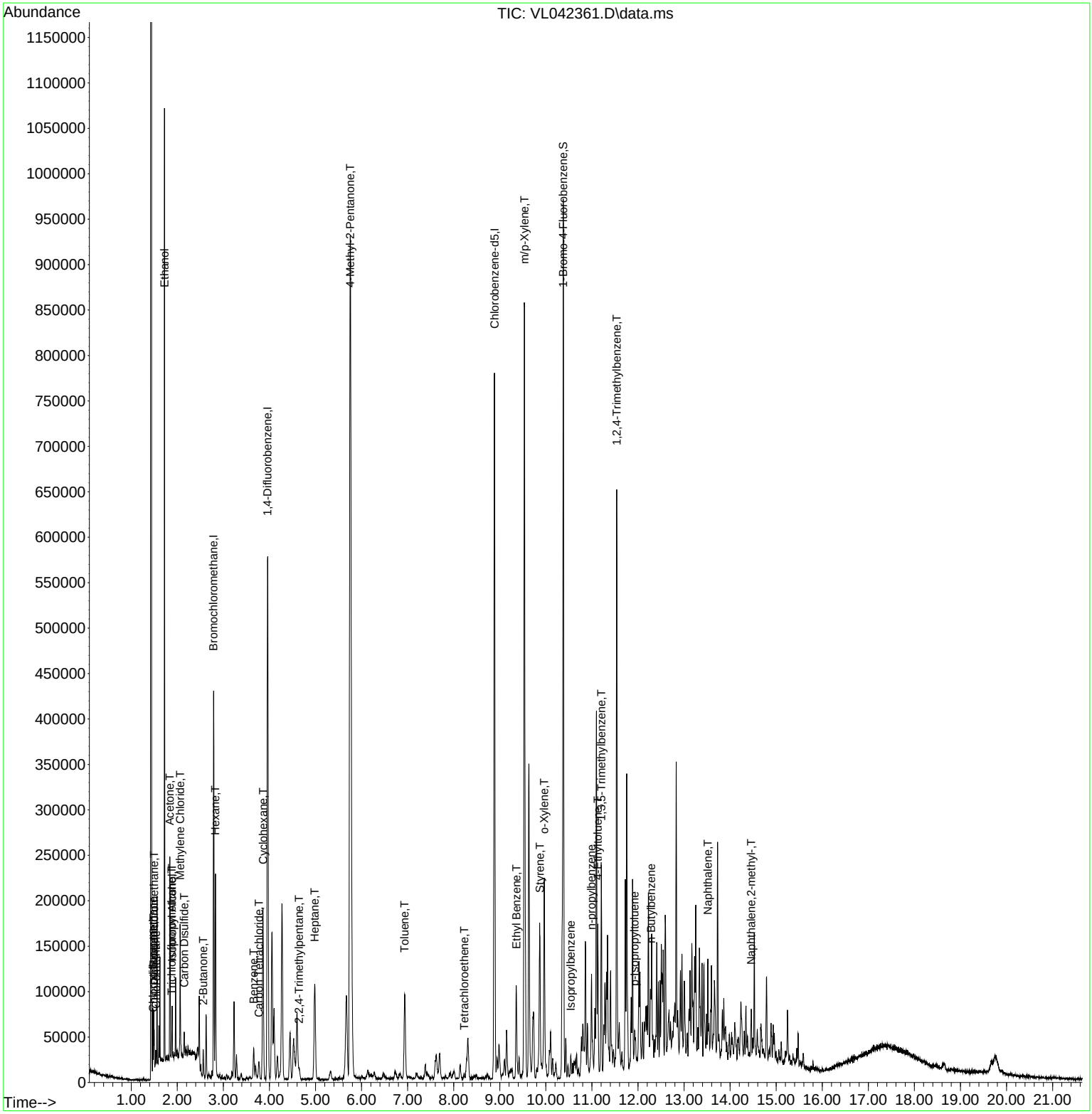
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042361.D
Acq On : 17 Apr 2025 17:17
Operator : SY/MD
Sample : Q1668-01
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

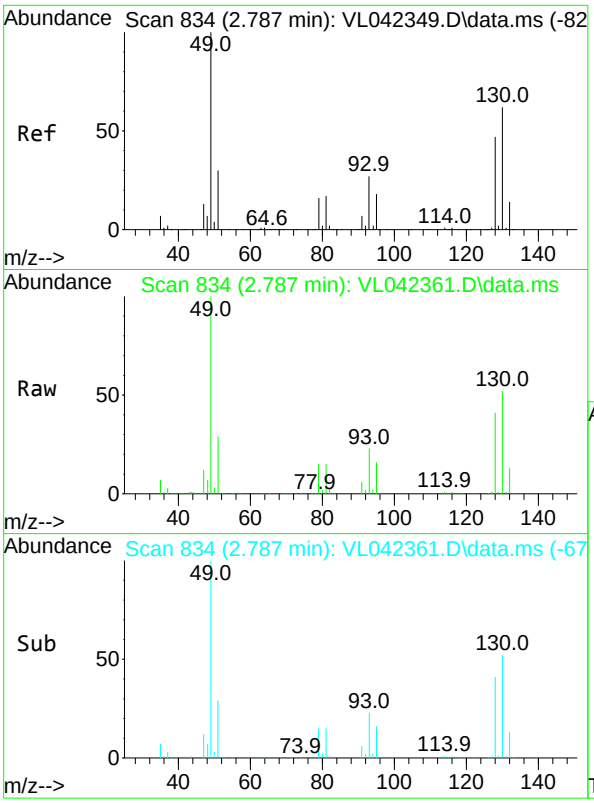
Quant Time: Apr 18 02:38:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 8
Delta R.T. 0.000 min
Lab File: VL042361.D
Acq: 17 Apr 2025 17:17

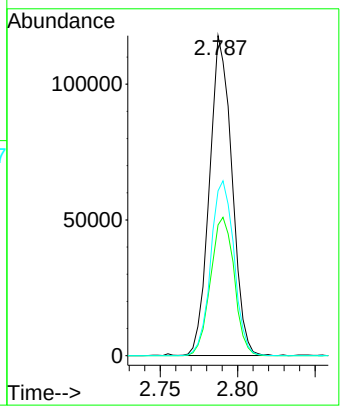
Tgt Ion: 49 Resp: 11868

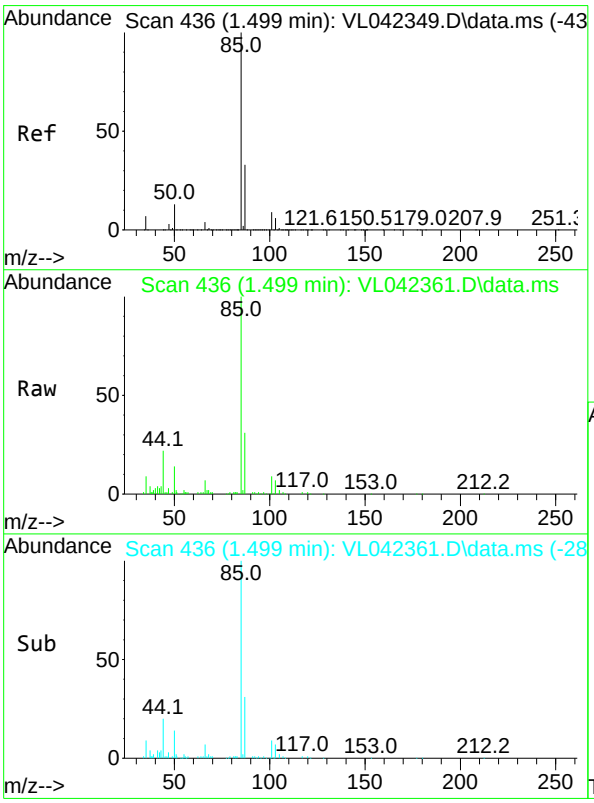
Ion	Ratio	Lower	Upper
49	100		
128	45.4	22.8	68.4
130	56.4	29.3	88.0

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

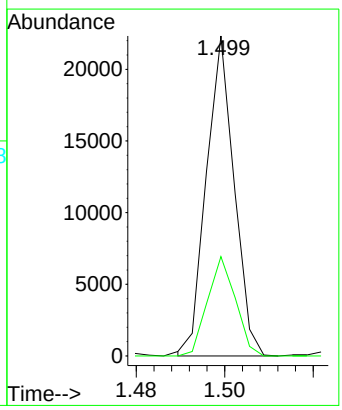


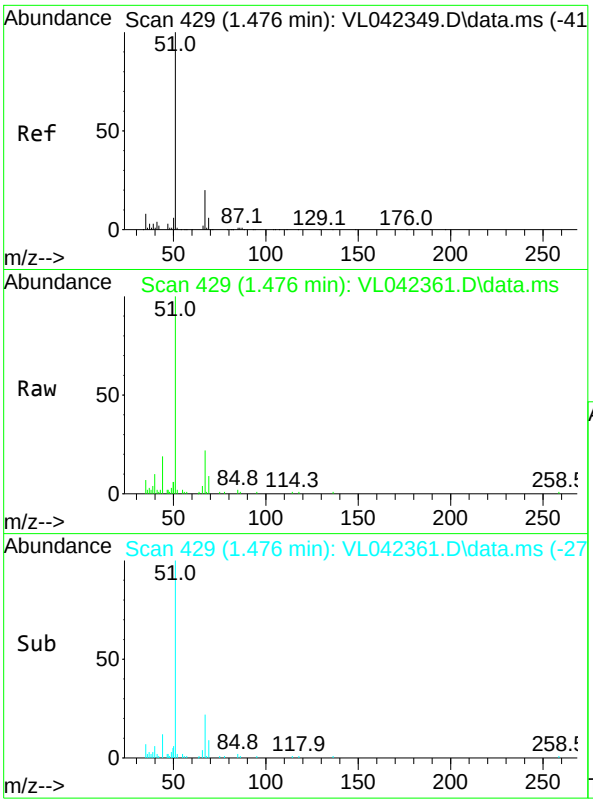


#2
Dichlorodifluoromethane
Concen: 0.463 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.000 min
Lab File: VL042361.D
Acq: 17 Apr 2025 17:17

Tgt Ion: 85 Resp: 9719

Ion	Ratio	Lower	Upper
85	100		
87	31.1	26.6	39.8

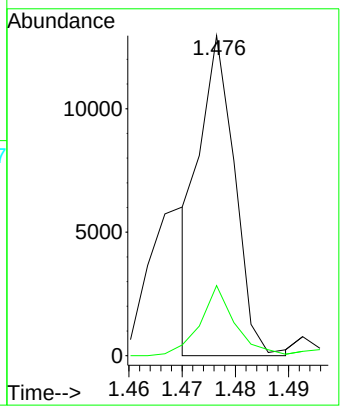




#3
Chlorodifluoromethane
Concen: 0.298 ppbv m
RT: 1.476 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042361.D
Acq: 17 Apr 2025 17:17

Tgt Ion: 51 Resp: 594

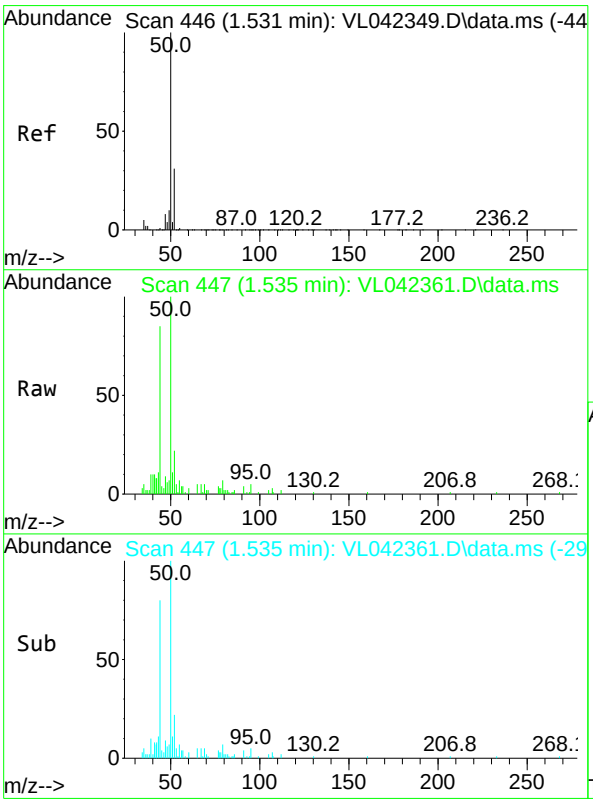
Ion	Ratio	Lower	Upper
51	100		
67	26.7	16.2	24.4#



Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025

Manual Integrations
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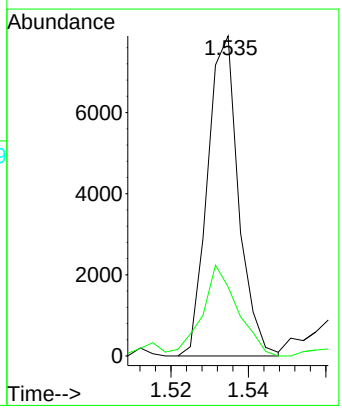
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

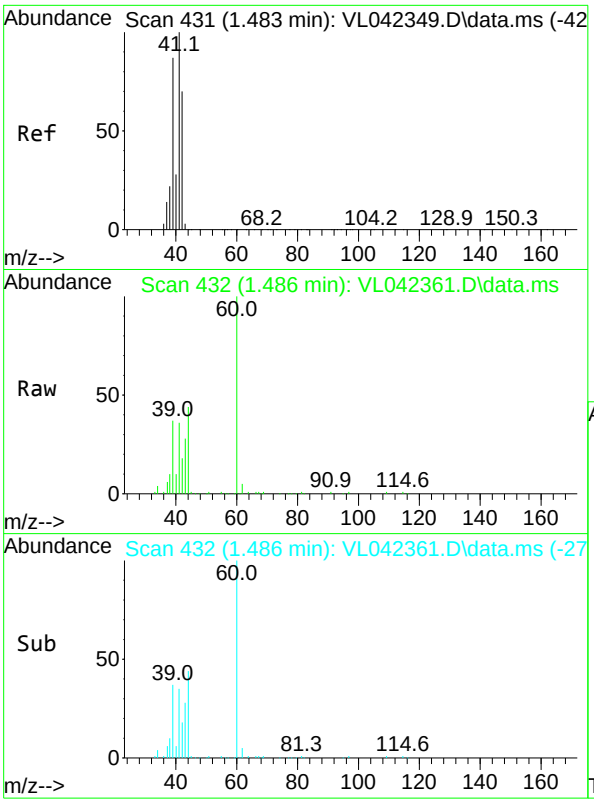


#4
Chloromethane
Concen: 0.529 ppbv
RT: 1.535 min Scan# 447
Delta R.T. 0.004 min
Lab File: VL042361.D
Acq: 17 Apr 2025 17:17

Tgt Ion: 50 Resp: 4388

Ion	Ratio	Lower	Upper
50	100		
52	21.8	24.7	37.1#

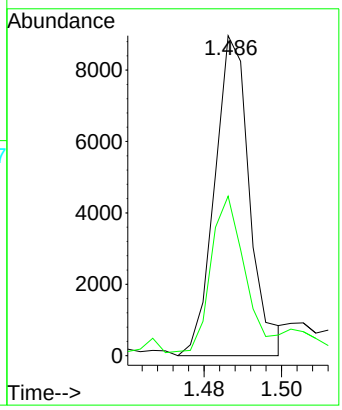




#9
Propene
Concen: 0.617 ppbv
RT: 1.486 min Scan# 4
Delta R.T. 0.004 min
Lab File: VL042361.D
Acq: 17 Apr 2025 17:17

Tgt Ion: 41 Resp: 561

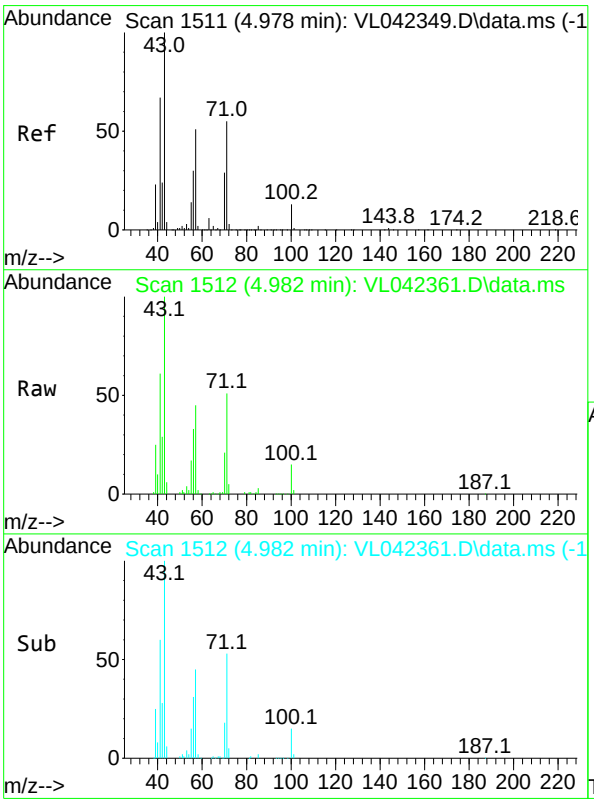
Ion	Ratio	Lower	Upper
41	100		
42	60.0	56.2	84.4



Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025

Manual Integrations
APPROVED

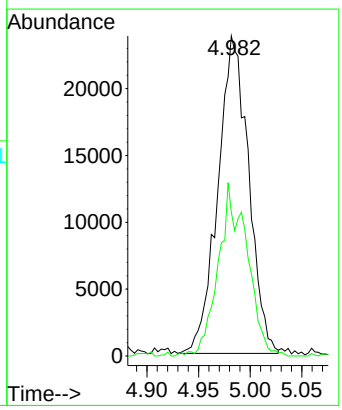
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

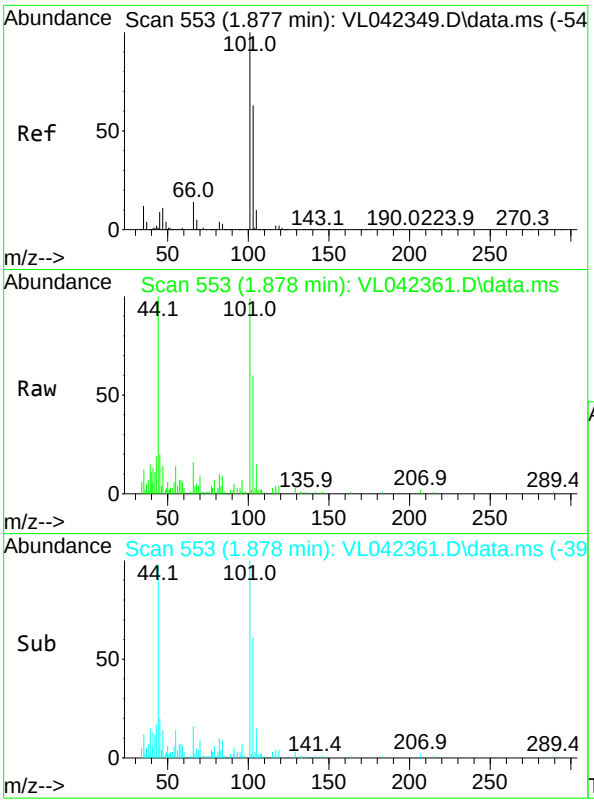


#10
Heptane
Concen: 1.925 ppbv
RT: 4.982 min Scan# 1512
Delta R.T. 0.004 min
Lab File: VL042361.D
Acq: 17 Apr 2025 17:17

Tgt Ion: 43 Resp: 49177

Ion	Ratio	Lower	Upper
43	100		
57	51.2	39.9	59.9

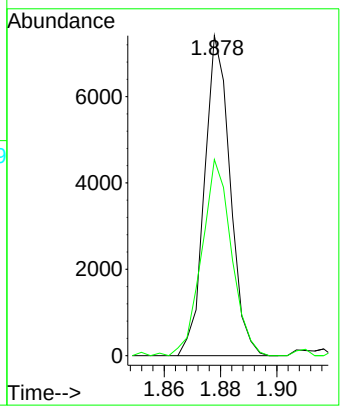




#11
Trichlorofluoromethane
Concen: 0.235 ppbv
RT: 1.878 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL042361.D
Acq: 17 Apr 2025 17:17

Tgt Ion:101 Resp: 468

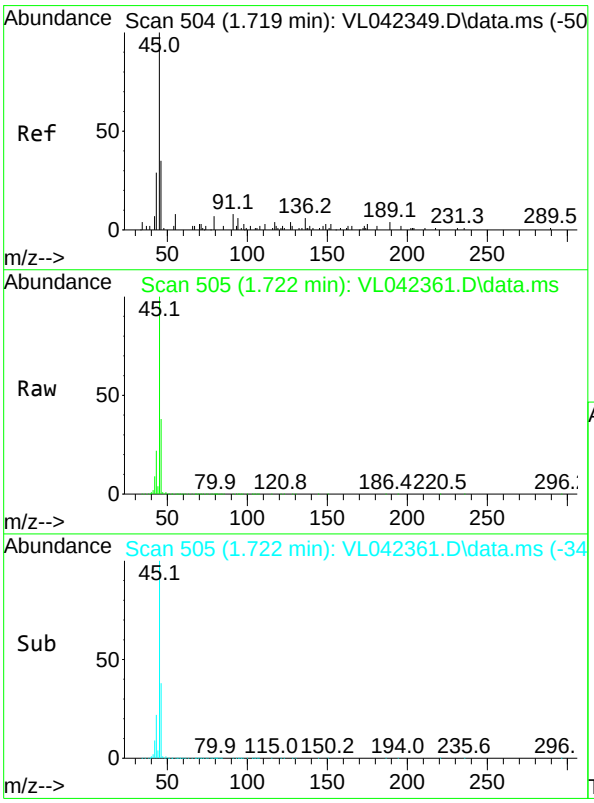
Ion	Ratio	Lower	Upper
101	100		
103	61.3	50.1	75.1



Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025

Manual Integrations
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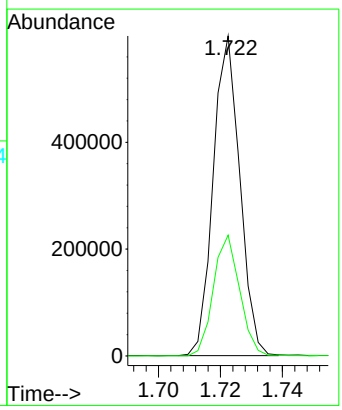
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

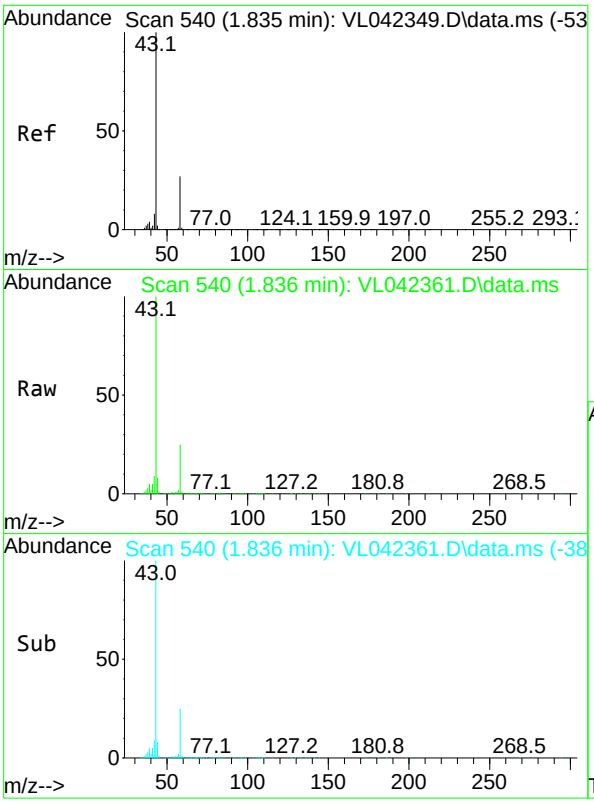


#13
Ethanol
Concen: 247.060 ppbv
RT: 1.722 min Scan# 505
Delta R.T. 0.004 min
Lab File: VL042361.D
Acq: 17 Apr 2025 17:17

Tgt Ion: 45 Resp: 357077

Ion	Ratio	Lower	Upper
45	100		
46	37.6	21.9	87.7

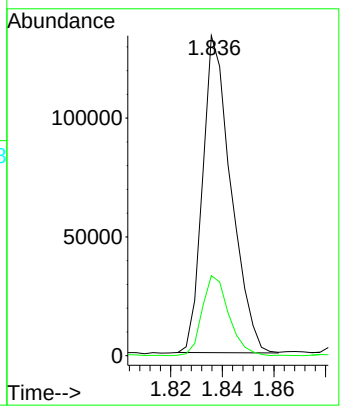




#15
Acetone
Concen: 5.264 ppbv
RT: 1.836 min Scan# 54
Delta R.T. 0.000 min
Lab File: VL042361.D
Acq: 17 Apr 2025 17:17

Tgt Ion: 43 Resp: 10227

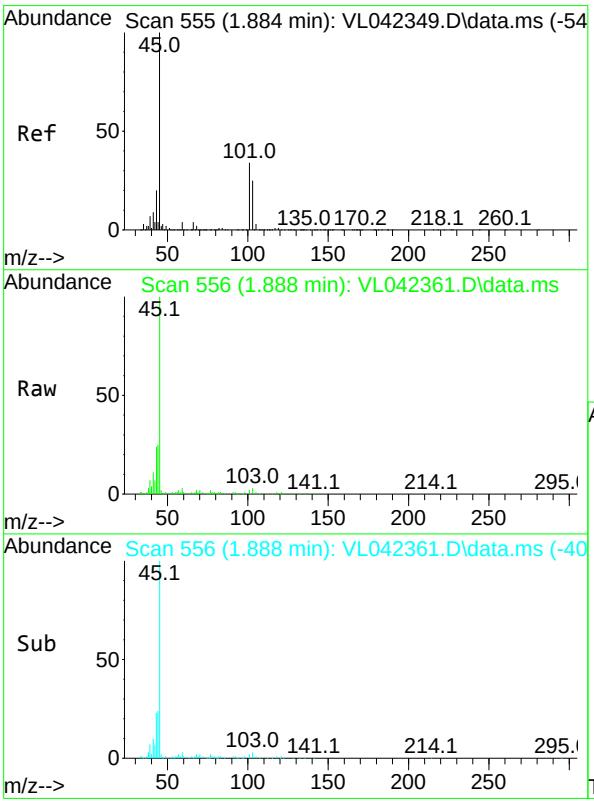
Ion	Ratio	Lower	Upper
43	100		
58	23.6	22.4	33.6



Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025

Manual Integrations
APPROVED

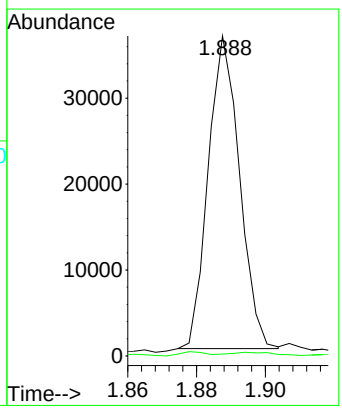
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

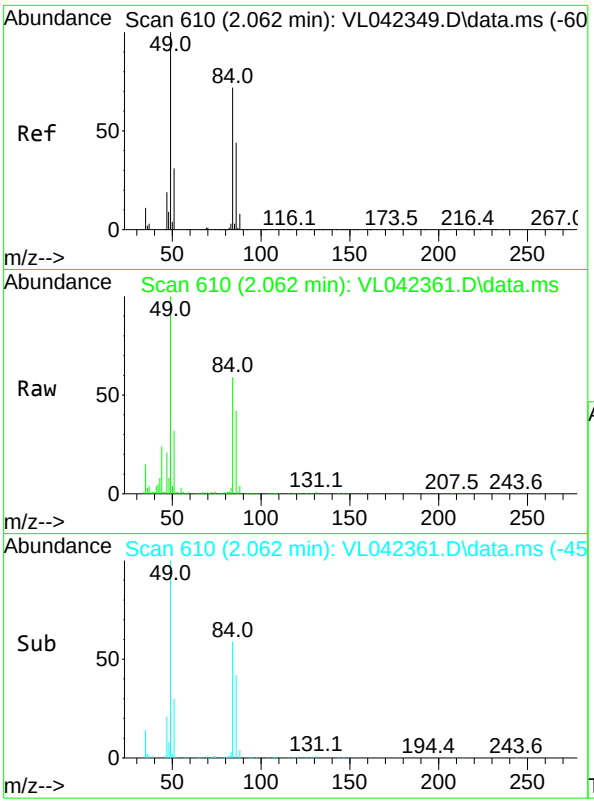


#19
Isopropyl Alcohol
Concen: 2.133 ppbv
RT: 1.888 min Scan# 556
Delta R.T. 0.004 min
Lab File: VL042361.D
Acq: 17 Apr 2025 17:17

Tgt Ion: 45 Resp: 23025

Ion	Ratio	Lower	Upper
45	100		
58	105.0	34.5	51.7#

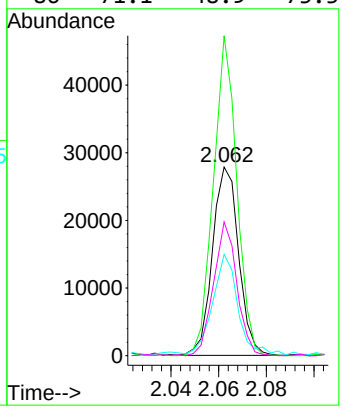




#20
Methylene Chloride
Concen: 2.782 ppbv
RT: 2.062 min Scan# 6
Delta R.T. 0.000 min
Lab File: VL042361.D
Acq: 17 Apr 2025 17:17

Tgt Ion: 84 Resp: 2116

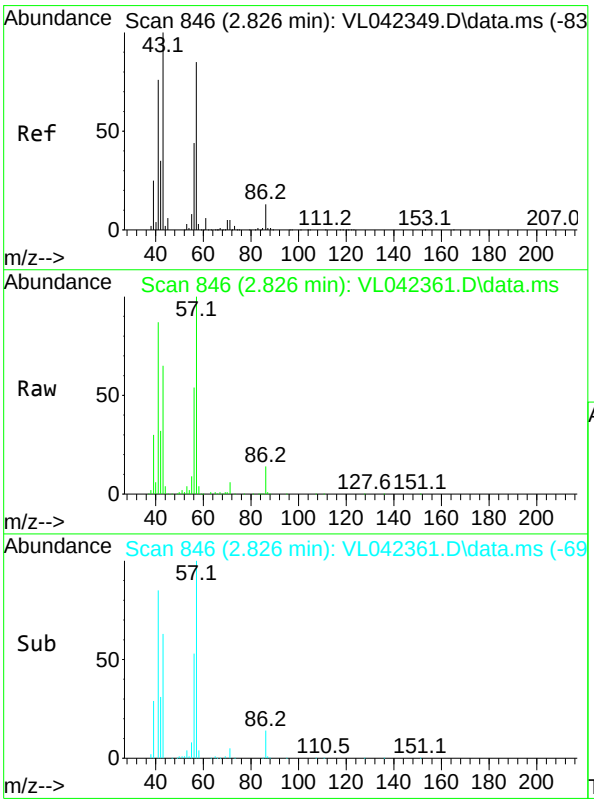
Ion	Ratio	Lower	Upper
84	100		
49	170.0	111.6	167.4#
51	52.3	35.1	52.7
86	71.1	48.9	73.3



Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025

Manual Integrations
APPROVED

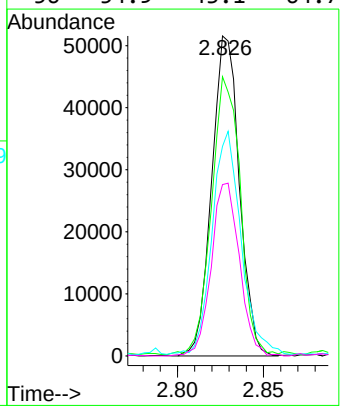
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

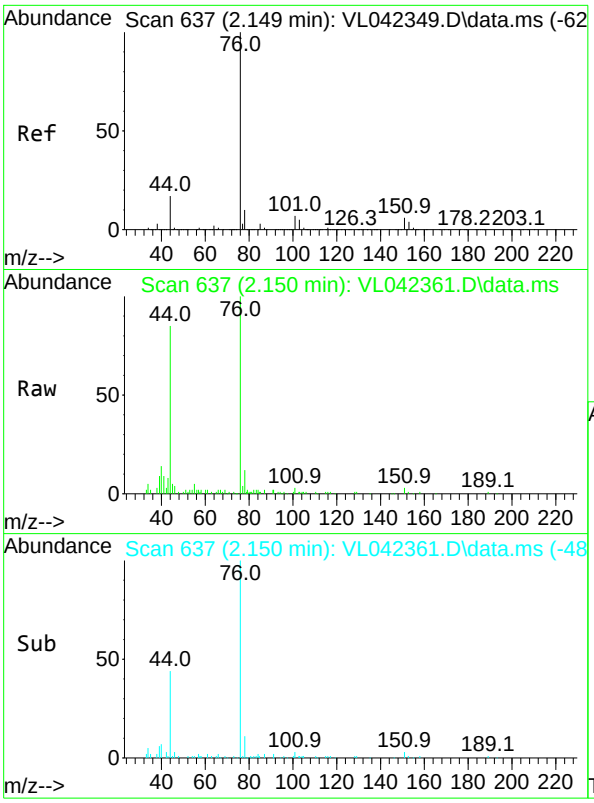


#26
Hexane
Concen: 2.977 ppbv
RT: 2.826 min Scan# 846
Delta R.T. 0.000 min
Lab File: VL042361.D
Acq: 17 Apr 2025 17:17

Tgt Ion: 57 Resp: 57707

Ion	Ratio	Lower	Upper
57	100		
41	91.6	77.9	116.9
43	72.6	208.4	312.6#
56	54.9	43.1	64.7

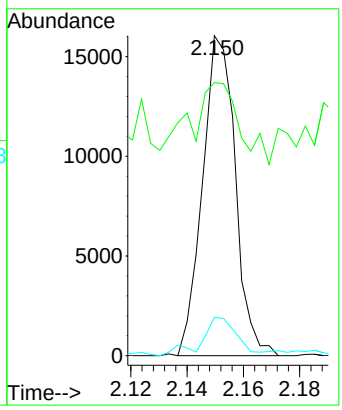




#27
Carbon Disulfide
Concen: 0.626 ppbv
RT: 2.150 min Scan# 6
Delta R.T. 0.000 min
Lab File: VL042361.D
Acq: 17 Apr 2025 17:17

Tgt Ion: 76 Resp: 1298

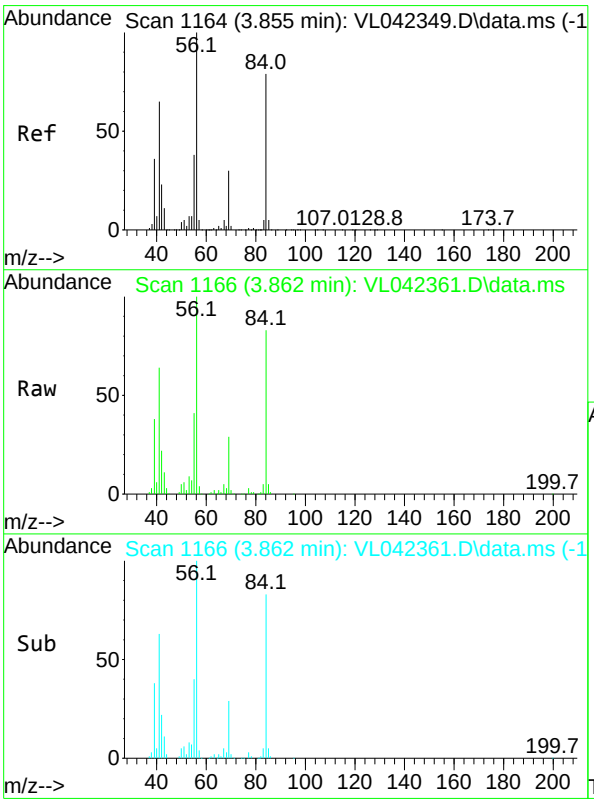
Ion	Ratio	Lower	Upper
76	100		
44	112.3	15.5	23.3#
78	16.4	9.3	13.9#



Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025

Manual Integrations
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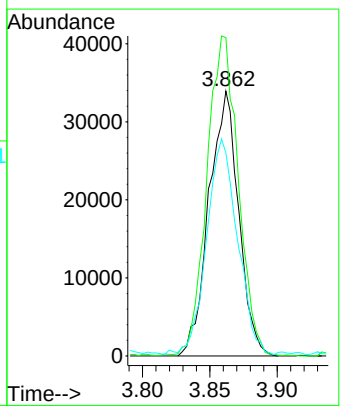
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

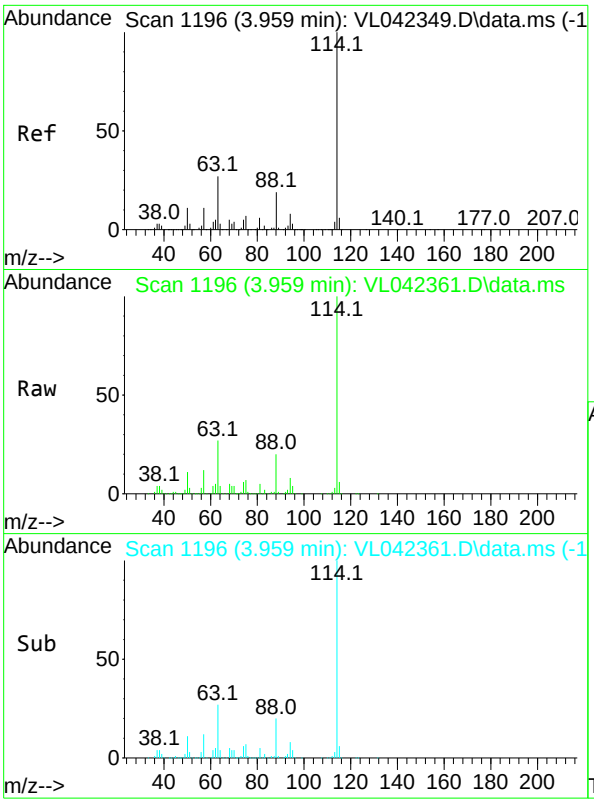


#30
Cyclohexane
Concen: 3.319 ppbv
RT: 3.862 min Scan# 1166
Delta R.T. 0.007 min
Lab File: VL042361.D
Acq: 17 Apr 2025 17:17

Tgt Ion: 84 Resp: 52016

Ion	Ratio	Lower	Upper
84	100		
56	127.7	101.0	151.4
41	84.4	67.4	101.0





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.959 min Scan# 1
Delta R.T. 0.000 min
Lab File: VL042361.D
Acq: 17 Apr 2025 17:17

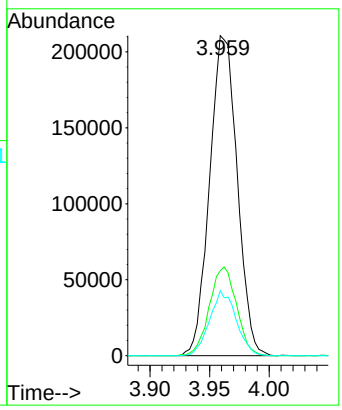
Tgt Ion:114 Resp: 33919

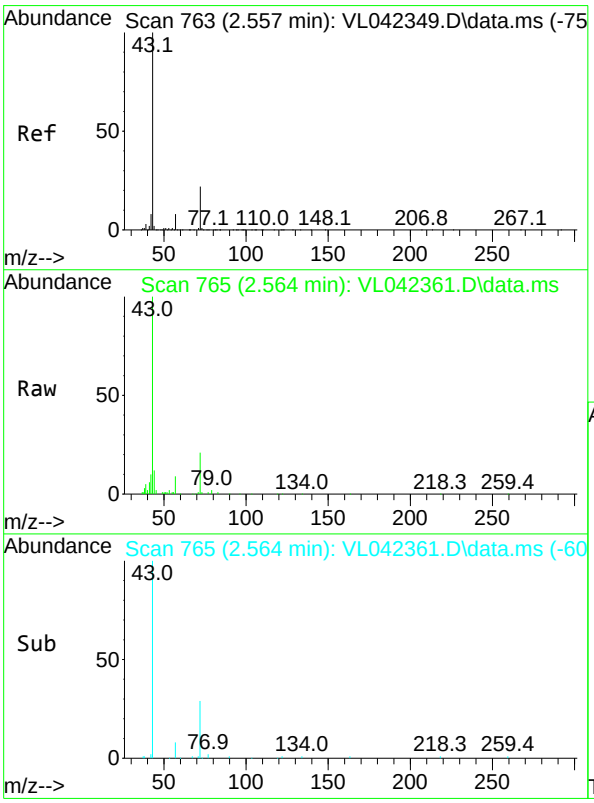
Ion	Ratio	Lower	Upper
114	100		
63	27.2	21.8	32.6
88	19.5	15.5	23.3

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

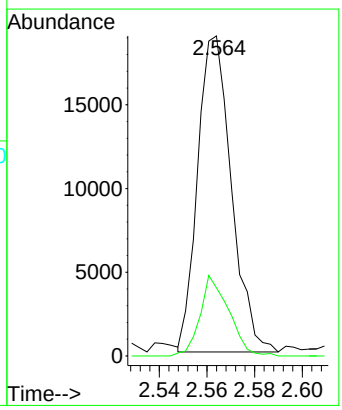


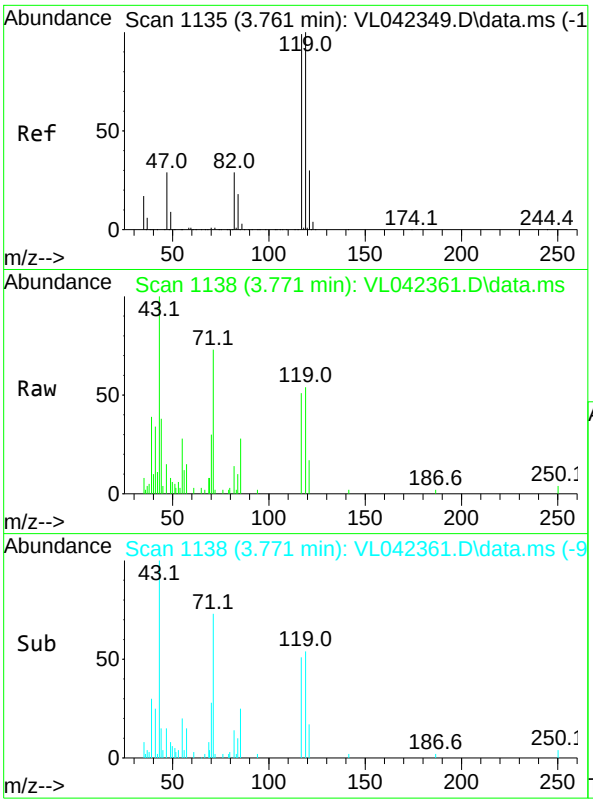


#34
2-Butanone
Concen: 0.693 ppbv
RT: 2.564 min Scan# 765
Delta R.T. 0.007 min
Lab File: VL042361.D
Acq: 17 Apr 2025 17:17

Tgt Ion: 43 Resp: 18598

Ion	Ratio	Lower	Upper
43	100		
72	21.7	18.2	27.2





#35
Carbon Tetrachloride
Concen: 0.081 ppbv m
RT: 3.771 min Scan# 1
Delta R.T. 0.010 min
Lab File: VL042361.D
Acq: 17 Apr 2025 17:17

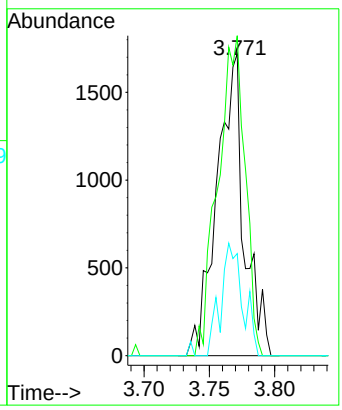
Tgt Ion:117 Resp: 249

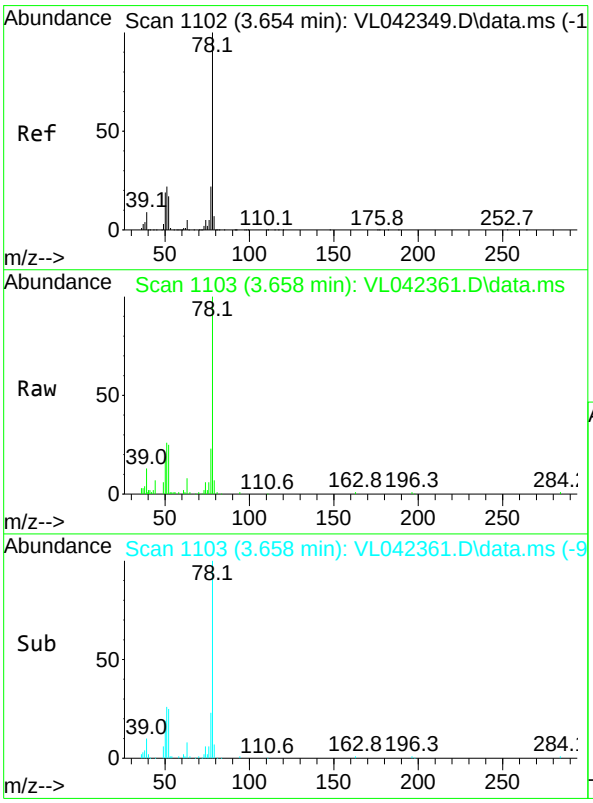
Ion	Ratio	Lower	Upper
117	100		
119	106.0	80.5	120.7
121	33.8	24.2	36.2

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

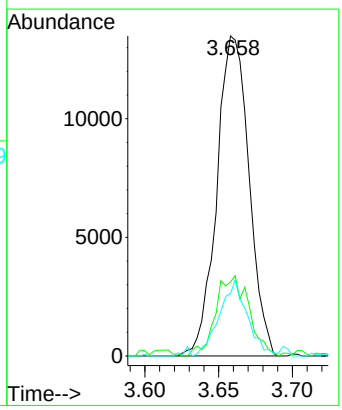


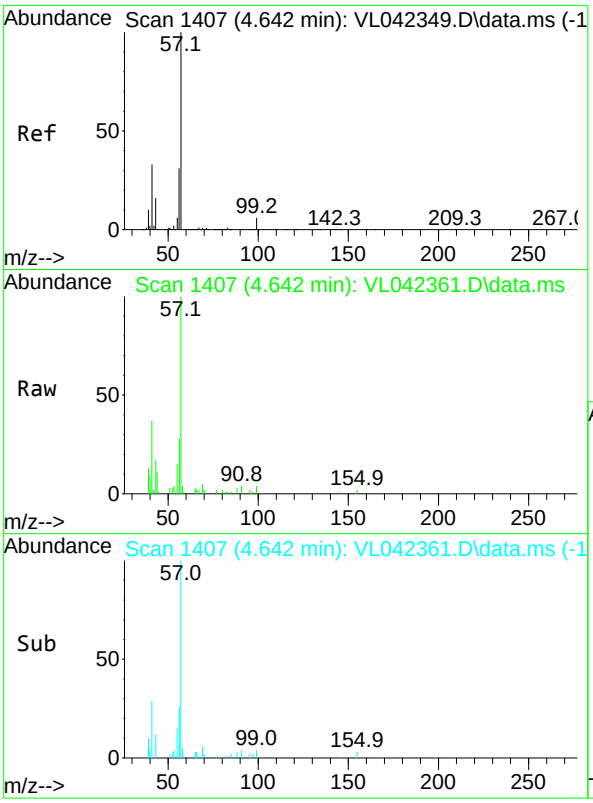


#36
Benzene
Concen: 0.561 ppbv
RT: 3.658 min Scan# 1103
Delta R.T. 0.004 min
Lab File: VL042361.D
Acq: 17 Apr 2025 17:17

Tgt Ion: 78 Resp: 20521

Ion	Ratio	Lower	Upper
78	100		
77	23.1	17.4	26.0
50	18.7	15.5	23.3

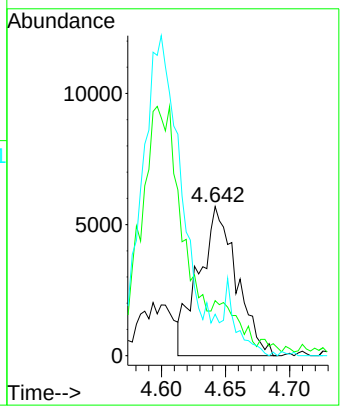




#44
2,2,4-Trimethylpentane
Concen: 0.185 ppbv m
RT: 4.642 min Scan# 14
Delta R.T. 0.000 min
Lab File: VL042361.D
Acq: 17 Apr 2025 17:17

Tgt Ion: 57 Resp: 1167

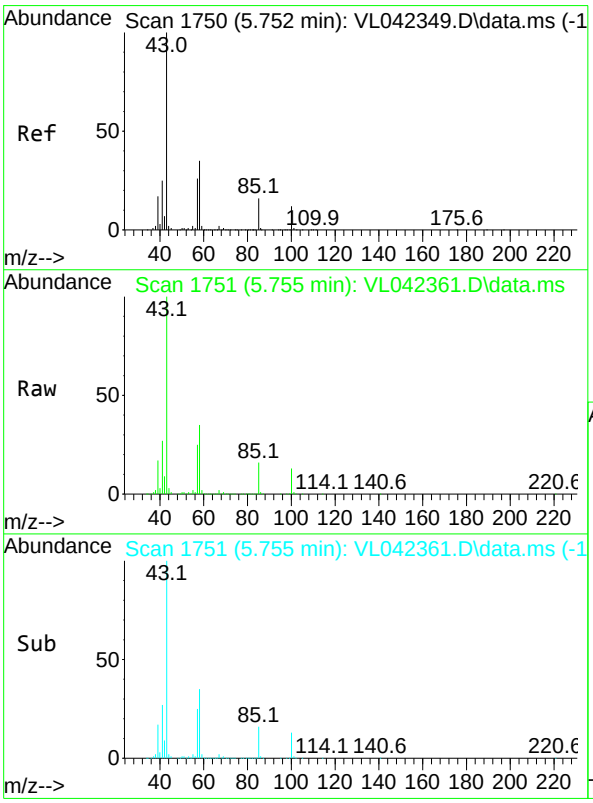
Ion	Ratio	Lower	Upper
57	100		
41	0.0	27.2	40.8#
56	0.0	25.7	38.5#



Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025

Manual Integrations
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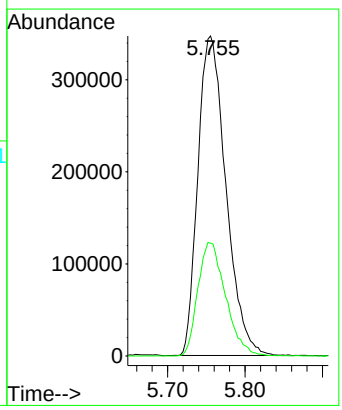
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

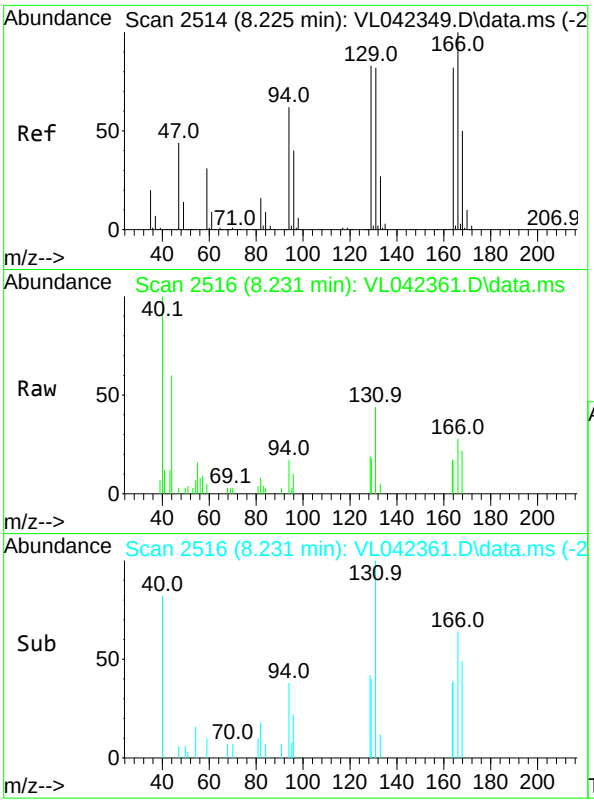


#50
4-Methyl-2-Pentanone
Concen: 19.593 ppbv
RT: 5.755 min Scan# 1751
Delta R.T. 0.004 min
Lab File: VL042361.D
Acq: 17 Apr 2025 17:17

Tgt Ion: 43 Resp: 873418

Ion	Ratio	Lower	Upper
43	100		
58	35.2	28.6	43.0

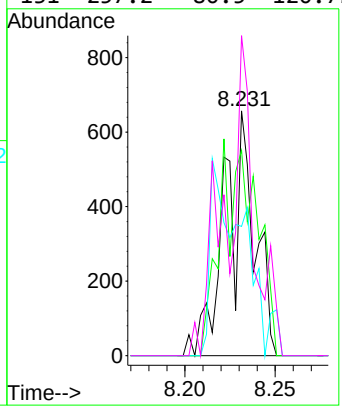




#52
Tetrachloroethene
Concen: 0.053 ppbv m
RT: 8.231 min Scan# 2
Delta R.T. 0.007 min
Lab File: VL042361.D
Acq: 17 Apr 2025 17:17

Tgt Ion:164 Resp: 74

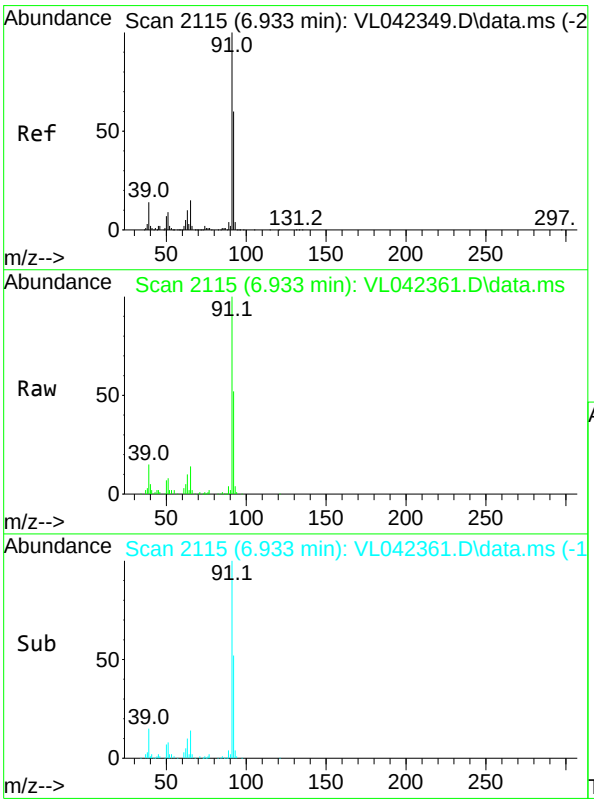
Ion	Ratio	Lower	Upper
164	100		
166	165.0	98.2	147.2#
129	103.9	81.8	122.8
131	257.2	80.5	120.7#



Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025

Manual Integrations
APPROVED

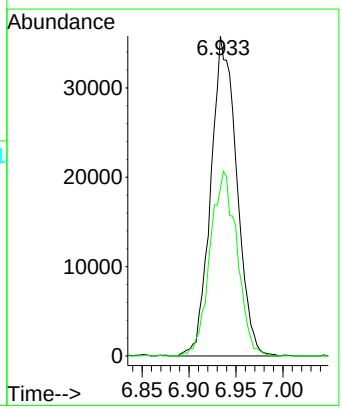
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

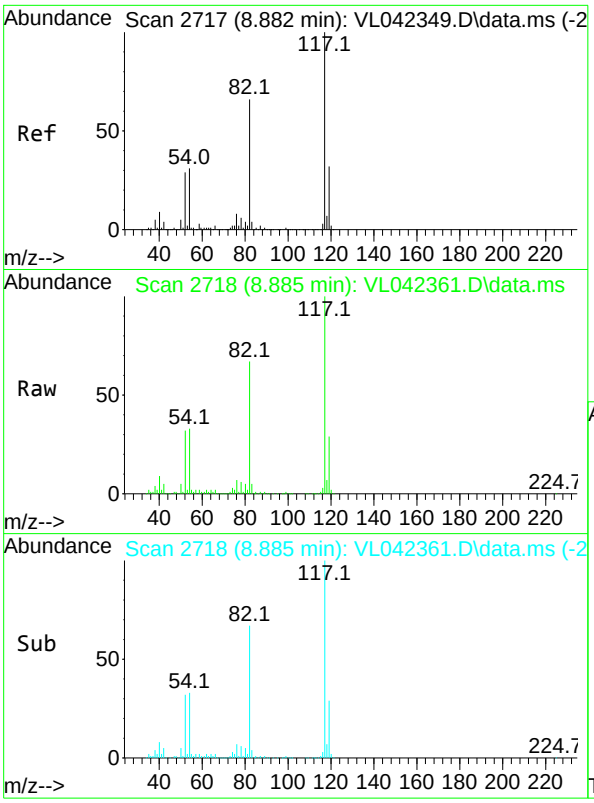


#53
Toluene
Concen: 1.565 ppbv
RT: 6.933 min Scan# 2115
Delta R.T. 0.000 min
Lab File: VL042361.D
Acq: 17 Apr 2025 17:17

Tgt Ion: 91 Resp: 68700

Ion	Ratio	Lower	Upper
91	100		
92	59.9	48.2	72.4

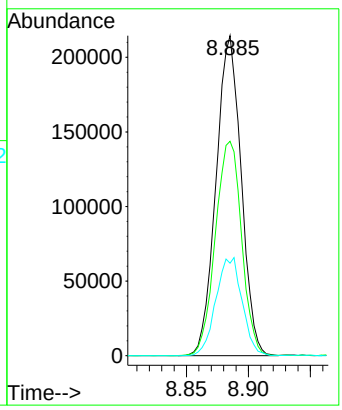




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.885 min Scan# 2
Delta R.T. 0.004 min
Lab File: VL042361.D
Acq: 17 Apr 2025 17:17

Tgt Ion:117 Resp: 30350

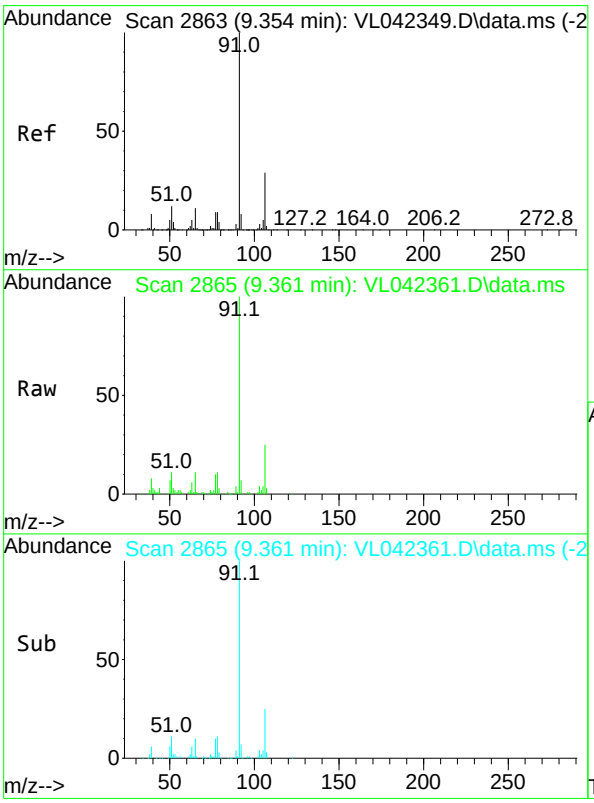
Ion	Ratio	Lower	Upper
117	100		
82	70.1	57.8	86.6
119	32.1	25.2	37.8



Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025

Manual Integrations
APPROVED

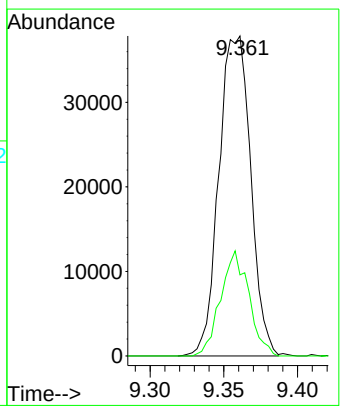
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

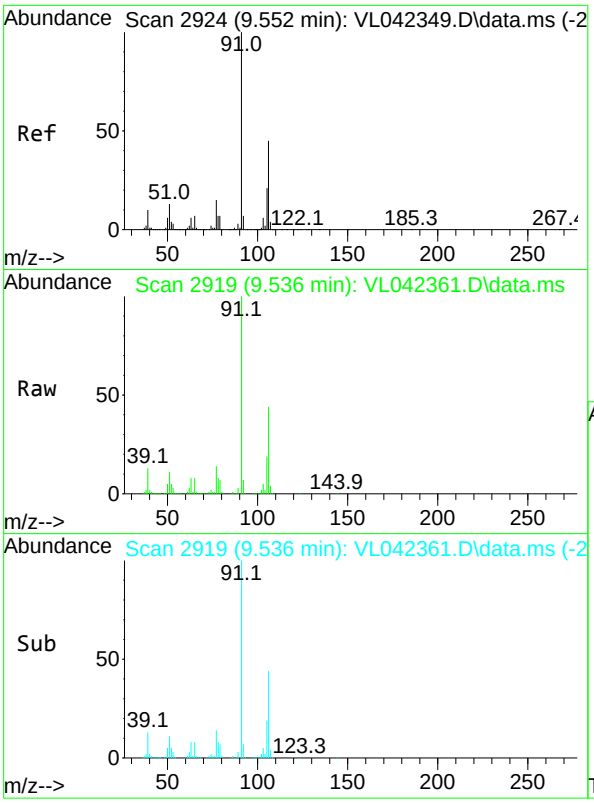


#58
Ethyl Benzene
Concen: 0.944 ppbv
RT: 9.361 min Scan# 2865
Delta R.T. 0.007 min
Lab File: VL042361.D
Acq: 17 Apr 2025 17:17

Tgt Ion: 91 Resp: 56772

Ion	Ratio	Lower	Upper
91	100		
106	25.4	23.0	34.4





#59
m/p-Xylene
Concen: 9.382 ppbv
RT: 9.536 min Scan# 2
Delta R.T. -0.016 min
Lab File: VL042361.D
Acq: 17 Apr 2025 17:17

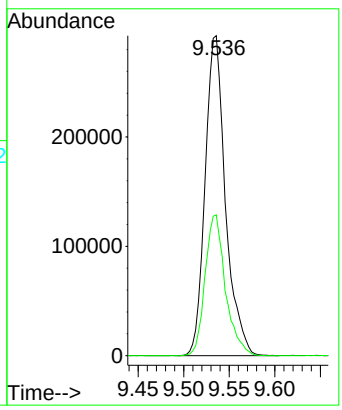
Tgt Ion: 91 Resp: 45449

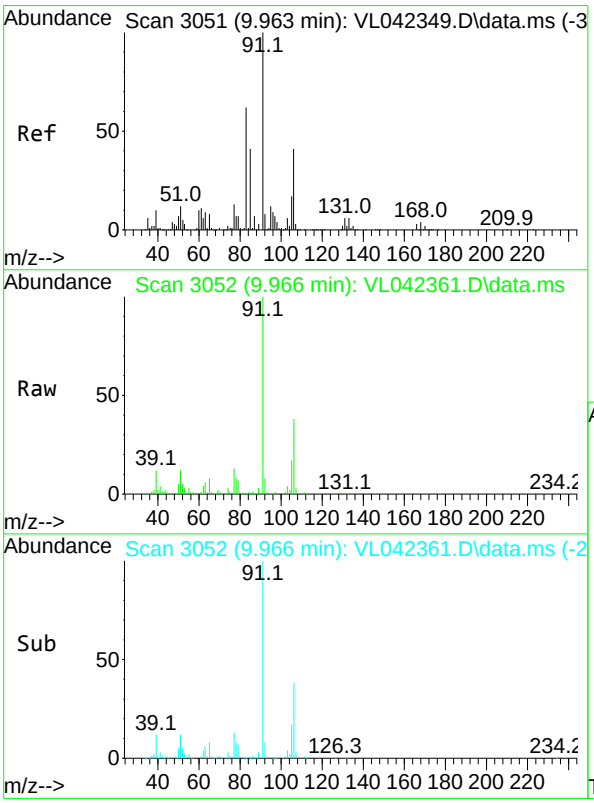
Ion	Ratio	Lower	Upper
91	100		
106	44.0	35.4	53.2

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

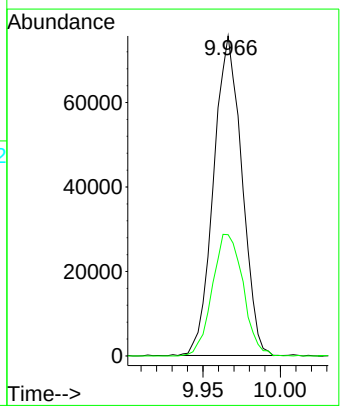


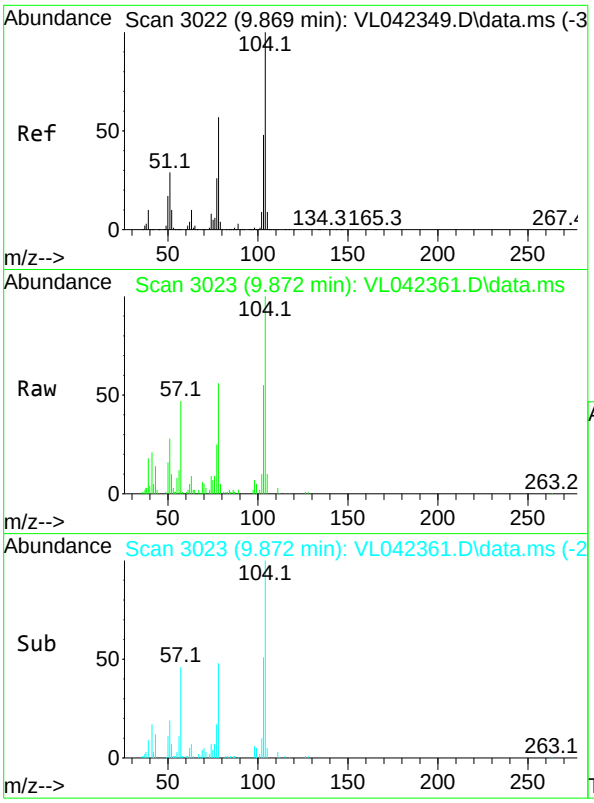


#60
o-Xylene
Concen: 1.966 ppbv
RT: 9.966 min Scan# 3052
Delta R.T. 0.004 min
Lab File: VL042361.D
Acq: 17 Apr 2025 17:17

Tgt Ion: 91 Resp: 95896

Ion	Ratio	Lower	Upper
91	100		
106	41.6	21.1	63.4

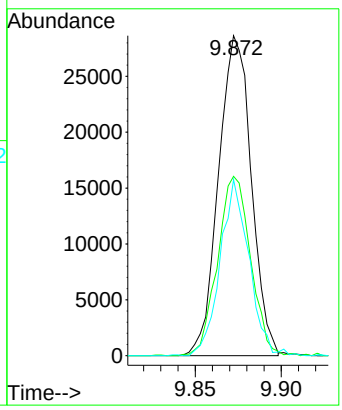




#61
Styrene
Concen: 1.629 ppbv
RT: 9.872 min Scan# 3
Delta R.T. 0.004 min
Lab File: VL042361.D
Acq: 17 Apr 2025 17:17

Tgt Ion:104 Resp: 3793

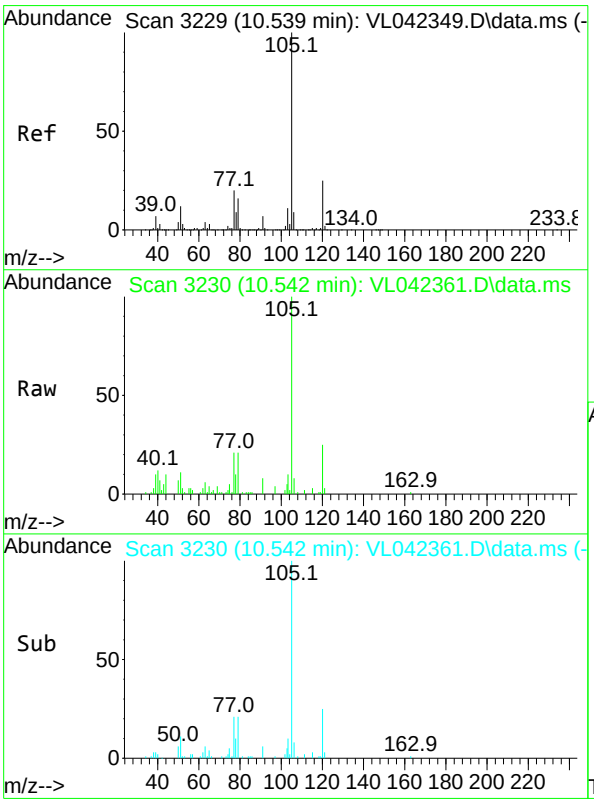
Ion	Ratio	Lower	Upper
104	100		
78	56.6	44.6	66.8
103	48.5	37.4	56.0



Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025

Manual Integrations
APPROVED

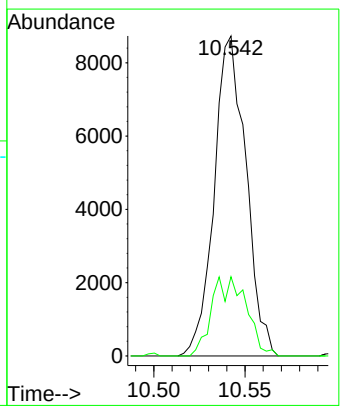
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

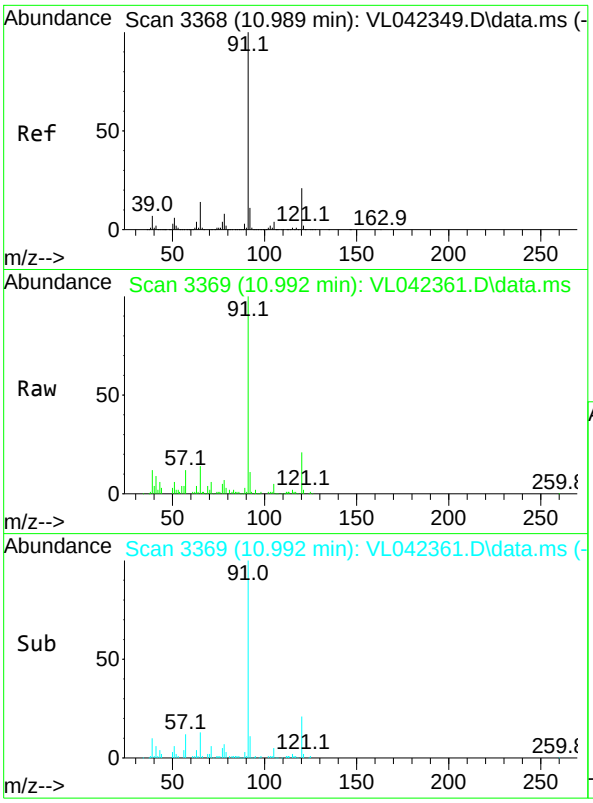


#62
Isopropylbenzene
Concen: 0.148 ppbv
RT: 10.542 min Scan# 3230
Delta R.T. 0.004 min
Lab File: VL042361.D
Acq: 17 Apr 2025 17:17

Tgt Ion:105 Resp: 10580

Ion	Ratio	Lower	Upper
105	100		
120	27.2	19.8	29.8

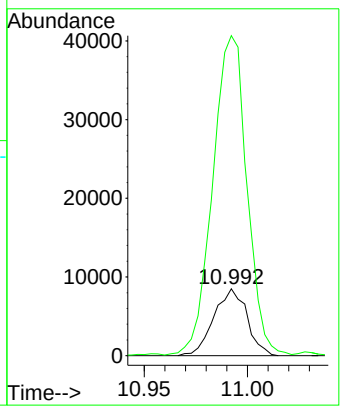




#64
n-propylbenzene
Concen: 0.527 ppbv
RT: 10.992 min Scan# 3
Delta R.T. 0.004 min
Lab File: VL042361.D
Acq: 17 Apr 2025 17:17

Tgt Ion:120 Resp: 948

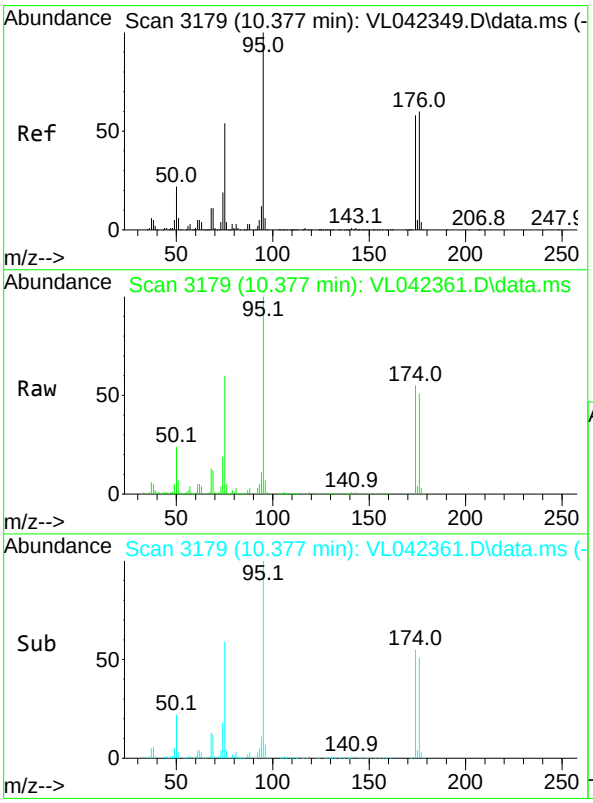
Ion	Ratio	Lower	Upper
120	100		
91	500.9	392.4	588.6



Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025

Manual Integrations
APPROVED

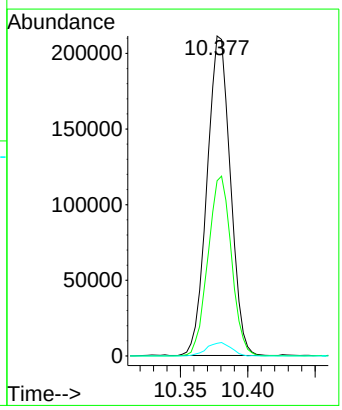
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

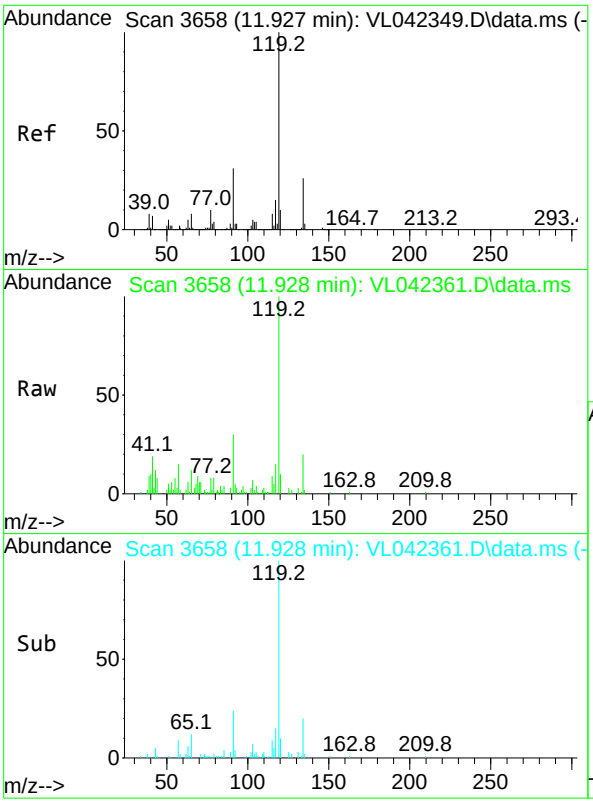


#68
1-Bromo-4-Fluorobenzene
Concen: 10.201 ppbv
RT: 10.377 min Scan# 3179
Delta R.T. 0.000 min
Lab File: VL042361.D
Acq: 17 Apr 2025 17:17

Tgt Ion: 95 Resp: 254412

Ion	Ratio	Lower	Upper
95	100		
174	56.7	48.5	72.7
175	4.4	3.7	5.5

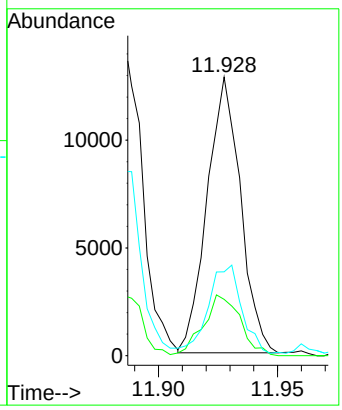




#69
p-Isopropyltoluene
Concen: 0.157 ppbv
RT: 11.928 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042361.D
Acq: 17 Apr 2025 17:17

Tgt Ion:119 Resp: 1250

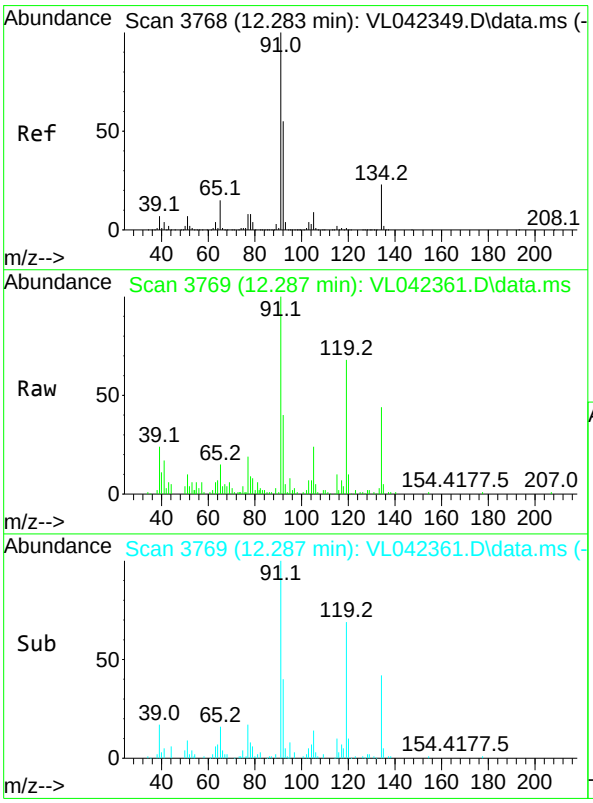
Ion	Ratio	Lower	Upper
119	100		
134	24.0	20.0	30.0
91	30.2	24.4	36.6



Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025

Manual Integrations
APPROVED

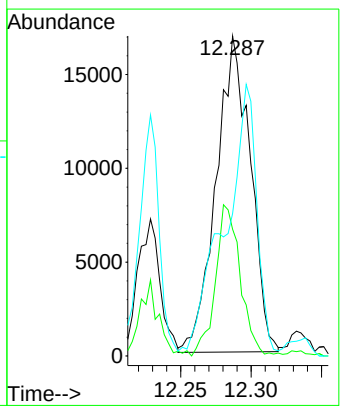
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

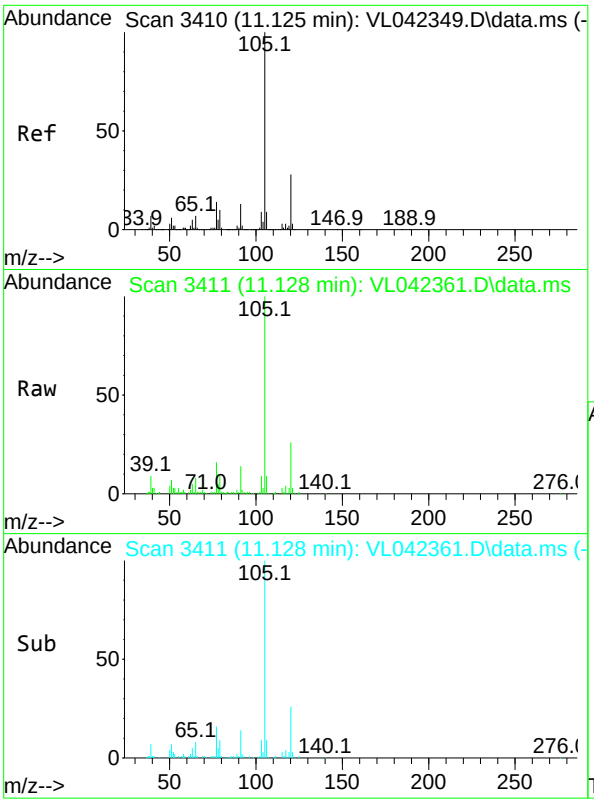


#70
n-Butylbenzene
Concen: 0.345 ppbv
RT: 12.287 min Scan# 3769
Delta R.T. 0.004 min
Lab File: VL042361.D
Acq: 17 Apr 2025 17:17

Tgt Ion: 91 Resp: 28567

Ion	Ratio	Lower	Upper
91	100		
92	35.2	44.2	66.4#
134	84.2	18.2	27.4#

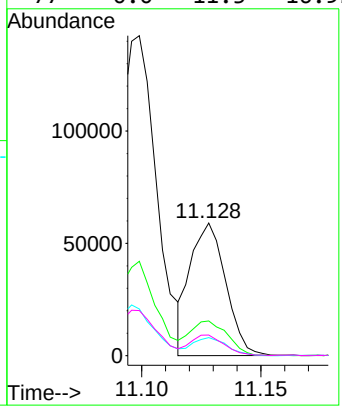




#72
4-Ethyltoluene
Concen: 1.028 ppbv
RT: 11.128 min Scan# 34
Delta R.T. 0.004 min
Lab File: VL042361.D
Acq: 17 Apr 2025 17:17

Tgt Ion:105 Resp: 6130

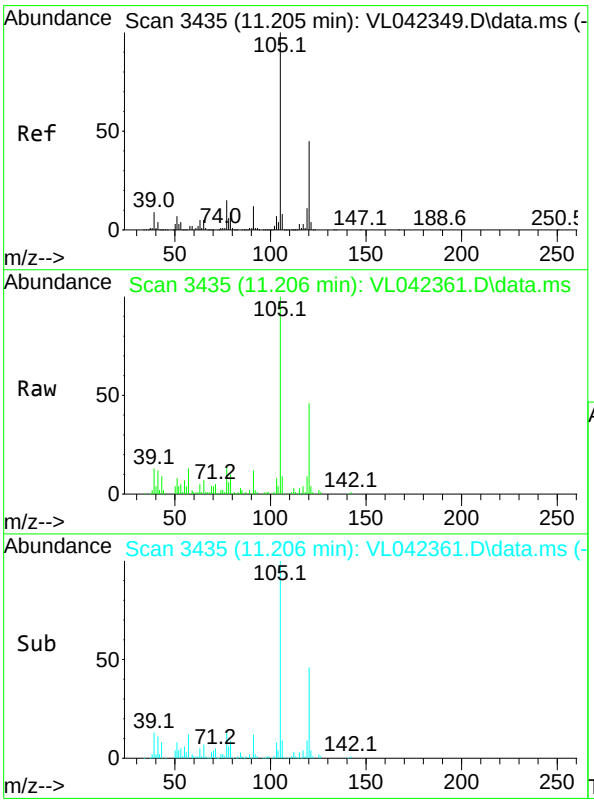
Ion	Ratio	Lower	Upper
105	100		
120	0.0	23.2	34.8#
91	0.0	10.4	15.6#
77	0.0	11.3	16.9#



Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025

Manual Integrations
APPROVED

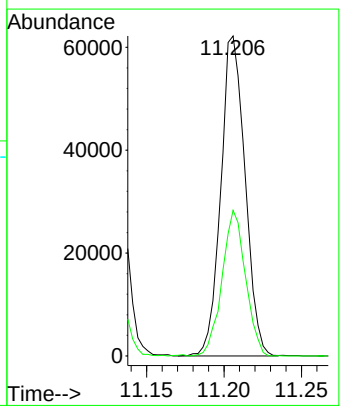
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

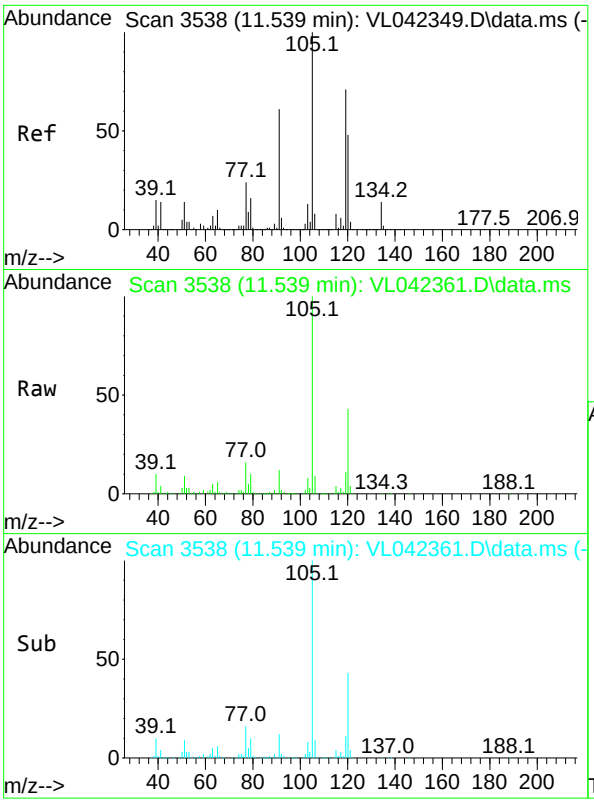


#73
1,3,5-Trimethylbenzene
Concen: 1.287 ppbv
RT: 11.206 min Scan# 3435
Delta R.T. 0.000 min
Lab File: VL042361.D
Acq: 17 Apr 2025 17:17

Tgt Ion:105 Resp: 67763

Ion	Ratio	Lower	Upper
105	100		
120	45.4	35.6	53.4

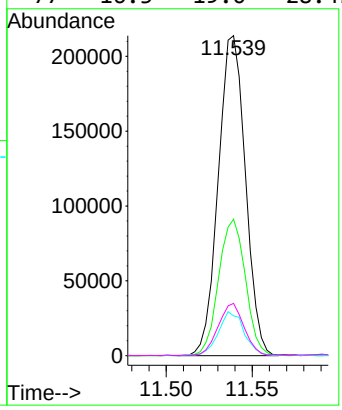




#74
1,2,4-Trimethylbenzene
Concen: 3.819 ppbv
RT: 11.539 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042361.D
Acq: 17 Apr 2025 17:17

Tgt Ion:105 Resp: 23483

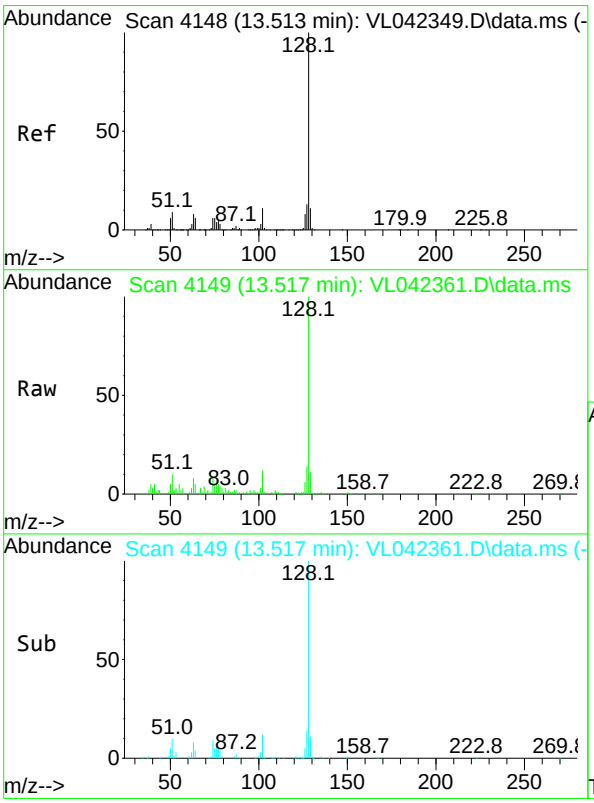
Ion	Ratio	Lower	Upper
105	100		
120	42.6	38.1	57.1
91	12.4	48.8	73.2#
77	16.3	19.0	28.4#



Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025

Manual Integrations APPROVED

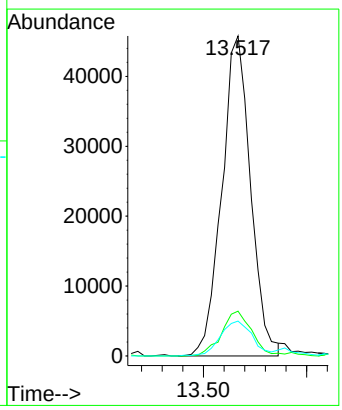
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

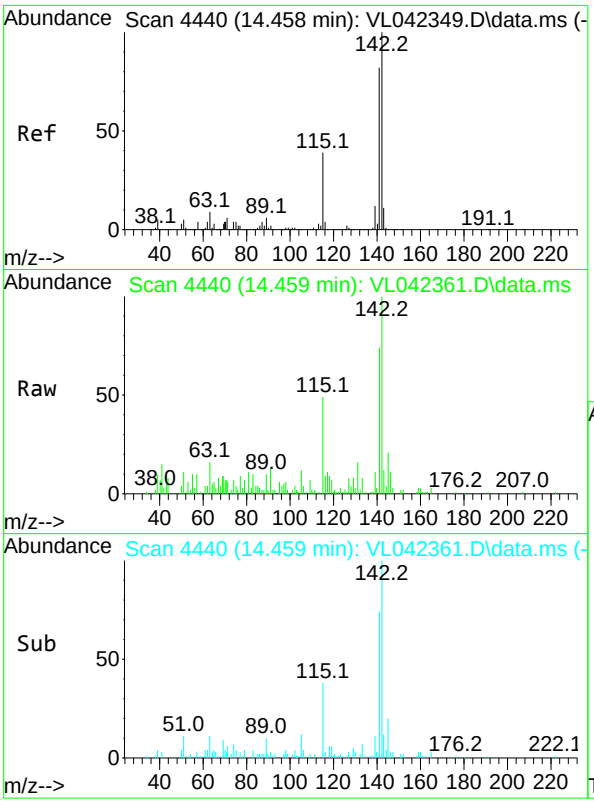


#79
Naphthalene
Concen: 0.601 ppbv
RT: 13.517 min Scan# 4149
Delta R.T. 0.004 min
Lab File: VL042361.D
Acq: 17 Apr 2025 17:17

Tgt Ion:128 Resp: 44224

Ion	Ratio	Lower	Upper
128	100		
127	14.0	10.6	15.8
129	10.9	8.6	12.8

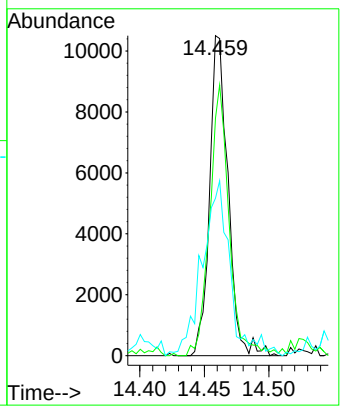




#80
Naphthalene,2-methyl-
Concen: 0.248 ppbv
RT: 14.459 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042361.D
Acq: 17 Apr 2025 17:17

Tgt Ion:142 Resp: 1040

Ion	Ratio	Lower	Upper
142	100		
141	89.8	66.8	100.2
115	82.6	33.4	50.2#



Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

LSC Area Percent Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042361.D
Acq On : 17 Apr 2025 17:17
Operator : SY/MD
Sample : Q1668-01
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 3 Min Area: 3 % of largest Peak
Start Thrs: 0.001 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 0

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

Signal : TIC: VL042361.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.431	410	415	421	rBV	4188320	4703442	100.00%	17.886%
2	1.561	451	455	458	rBV2	184256	96254	2.05%	0.366%
3	1.622	470	474	478	rVB	115166	60281	1.28%	0.229%
4	1.722	500	505	513	rBV	1047147	621947	13.22%	2.365%
5	1.839	536	541	549	rBV2	224029	226721	4.82%	0.862%
6	1.888	549	556	560	rVV2	56899	47625	1.01%	0.181%
7	1.965	575	580	585	rVB	86782	61364	1.30%	0.233%
8	2.062	599	610	615	rBV	147400	122759	2.61%	0.467%
9	2.477	731	738	745	rVB	82814	90361	1.92%	0.344%
10	2.625	776	784	794	rVB2	70044	77146	1.64%	0.293%
11	2.791	827	835	841	rBV	424038	451417	9.60%	1.717%
12	2.829	841	847	858	rVB2	222619	254601	5.41%	0.968%
13	3.231	962	971	980	rVB2	83879	111228	2.36%	0.423%
14	3.658	1092	1103	1111	rBV2	33381	52413	1.11%	0.199%
15	3.862	1155	1166	1177	rBV2	187100	305245	6.49%	1.161%
16	3.962	1185	1197	1211	rBV2	575634	929855	19.77%	3.536%
17	4.056	1213	1226	1233	rVV2	160886	288856	6.14%	1.098%
18	4.101	1233	1240	1251	rVB3	76938	128977	2.74%	0.490%
19	4.273	1280	1293	1308	rVB2	193156	365708	7.78%	1.391%
20	4.451	1333	1348	1357	rBV4	51494	102926	2.19%	0.391%
21	4.525	1357	1371	1384	rBV7	43148	106792	2.27%	0.406%
22	4.600	1384	1394	1405	rVB6	61062	116552	2.48%	0.443%
23	4.985	1497	1513	1526	rBV4	104222	223848	4.76%	0.851%
24	5.671	1707	1725	1738	rBV4	90227	236367	5.03%	0.899%
25	5.755	1738	1751	1778	rVB3	925078	2355932	50.09%	8.959%
26	6.937	2101	2116	2133	rBV3	93110	199433	4.24%	0.758%
27	8.309	2521	2540	2552	rBV9	43693	110187	2.34%	0.419%
28	8.885	2703	2718	2728	rBV2	776934	1181830	25.13%	4.494%
29	9.147	2792	2799	2809	rBV2	50042	72966	1.55%	0.277%
30	9.358	2853	2864	2877	rBV2	102277	166035	3.53%	0.631%
31	9.532	2901	2918	2935	rBV	853462	1348701	28.67%	5.129%
32	9.630	2935	2948	2964	rVV	345811	522696	11.11%	1.988%
33	9.720	2964	2976	2977	rVV3	67699	88742	1.89%	0.337%
34	9.730	2977	2979	2991	rVB4	73175	92423	1.97%	0.351%
35	9.866	3007	3021	3033	rBV5	163949	279364	5.94%	1.062%
36	9.966	3038	3052	3064	rBV	210380	309472	6.58%	1.177%

LSC Area Percent Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042361.D
Acq On : 17 Apr 2025 17:17
Operator : SY/MD
Sample : Q1668-01
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 3 Min Area: 3 % of largest Peak
Start Thrs: 0.001 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 0

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

37	10.102	3087	3094	3102	rVB4	47215	72355	1.54%	0.275%
38	10.377	3160	3179	3189	rBV2	967192	1392990	29.62%	5.297%
39	10.432	3189	3196	3204	rVB5	42246	55865	1.19%	0.212%
40	10.772	3289	3301	3306	rBV7	42951	68360	1.45%	0.260%
41	10.859	3321	3328	3335	rVB3	135757	176169	3.75%	0.670%
42	10.902	3335	3341	3350	rVB2	51149	67711	1.44%	0.257%
43	10.992	3353	3369	3383	rBV3	108016	186661	3.97%	0.710%
44	11.063	3383	3391	3395	rBV3	65381	80002	1.70%	0.304%
45	11.099	3395	3402	3407	rVV	380566	427871	9.10%	1.627%
46	11.128	3407	3411	3420	rVB	162768	182924	3.89%	0.696%
47	11.206	3420	3435	3442	rBV4	227698	281495	5.98%	1.070%
48	11.261	3442	3452	3454	rBV3	50937	57149	1.22%	0.217%
49	11.283	3454	3459	3464	rVV2	74644	83862	1.78%	0.319%
50	11.316	3464	3469	3472	rVV	85475	87860	1.87%	0.334%
51	11.339	3472	3476	3483	rVB	124921	132611	2.82%	0.504%
52	11.406	3490	3497	3502	rBV	99831	111917	2.38%	0.426%
53	11.539	3523	3538	3548	rBV	635595	759797	16.15%	2.889%
54	11.594	3548	3555	3566	rVB7	46718	76611	1.63%	0.291%
55	11.724	3584	3595	3600	rBV	209943	262278	5.58%	0.997%
56	11.756	3600	3605	3618	rVB3	324685	426948	9.08%	1.624%
57	11.853	3628	3635	3639	rBV3	70910	84369	1.79%	0.321%
58	11.882	3639	3644	3651	rVB2	197952	207241	4.41%	0.788%
59	12.021	3677	3687	3690	rBV	109969	135985	2.89%	0.517%
60	12.044	3690	3694	3702	rVB5	95624	104337	2.22%	0.397%
61	12.099	3702	3711	3717	rVB8	40672	50810	1.08%	0.193%
62	12.225	3745	3750	3757	rVB2	170037	176948	3.76%	0.673%
63	12.271	3757	3764	3768	rBV2	63622	78017	1.66%	0.297%
64	12.297	3768	3772	3778	rVB2	117054	119269	2.54%	0.454%
65	12.407	3801	3806	3812	rVB3	118124	127115	2.70%	0.483%
66	12.442	3812	3817	3822	rVB2	83115	77945	1.66%	0.296%
67	12.478	3822	3828	3832	rBV2	84618	81951	1.74%	0.312%
68	12.507	3832	3837	3841	rBV3	102076	108105	2.30%	0.411%
69	12.546	3846	3849	3856	rVB2	116273	111019	2.36%	0.422%
70	12.591	3856	3863	3873	rBV3	154443	232796	4.95%	0.885%
71	12.675	3875	3889	3894	rBV3	43732	84115	1.79%	0.320%
72	12.831	3931	3937	3942	rVV	291208	280563	5.97%	1.067%
73	12.863	3942	3947	3956	rVB10	46438	63730	1.35%	0.242%
74	12.921	3956	3965	3970	rBV3	90147	111720	2.38%	0.425%
75	12.954	3970	3975	3982	rVB	102067	107294	2.28%	0.408%
76	13.005	3982	3991	4002	rVB7	79771	131028	2.79%	0.498%

LSC Area Percent Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042361.D
Acq On : 17 Apr 2025 17:17
Operator : SY/MD
Sample : Q1668-01
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 3 Min Area: 3 % of largest Peak
Start Thrs: 0.001 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 0

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

77	13.106	4016	4022	4025	rBV6	52114	58324	1.24%	0.222%
78	13.128	4025	4029	4036	rVB4	75462	80188	1.70%	0.305%
79	13.170	4036	4042	4046	rBV5	101663	110424	2.35%	0.420%
80	13.229	4054	4060	4063	rBV2	95746	100520	2.14%	0.382%
81	13.255	4063	4068	4075	rVB5	161150	184661	3.93%	0.702%
82	13.332	4086	4092	4097	rBV2	111585	136389	2.90%	0.519%
83	13.391	4103	4110	4115	rVB3	102903	115413	2.45%	0.439%
84	13.433	4115	4123	4135	rBV5	101125	165165	3.51%	0.628%
85	13.517	4144	4149	4154	rBV	94553	90876	1.93%	0.346%
86	13.594	4161	4173	4180	rVB5	92508	124181	2.64%	0.472%
87	13.659	4180	4193	4205	rVB10	79085	153714	3.27%	0.585%
88	13.727	4207	4214	4221	rBV	229369	228144	4.85%	0.868%
89	13.831	4239	4246	4251	rBV5	46190	53609	1.14%	0.204%
90	14.103	4321	4330	4337	rBV10	34931	60284	1.28%	0.229%
91	14.232	4362	4370	4374	rBV7	57538	81342	1.73%	0.309%
92	14.345	4398	4405	4411	rBV3	53446	62909	1.34%	0.239%
93	14.459	4430	4440	4445	rBV7	52285	69703	1.48%	0.265%
94	14.523	4454	4460	4472	rVB2	133771	133803	2.84%	0.509%
95	14.669	4497	4505	4515	rBV10	37469	68885	1.46%	0.262%
96	14.792	4533	4543	4552	rVB	91329	120022	2.55%	0.456%
97	14.889	4566	4573	4582	rVB6	37827	51340	1.09%	0.195%
98	15.245	4677	4683	4692	rVB6	55850	70933	1.51%	0.270%

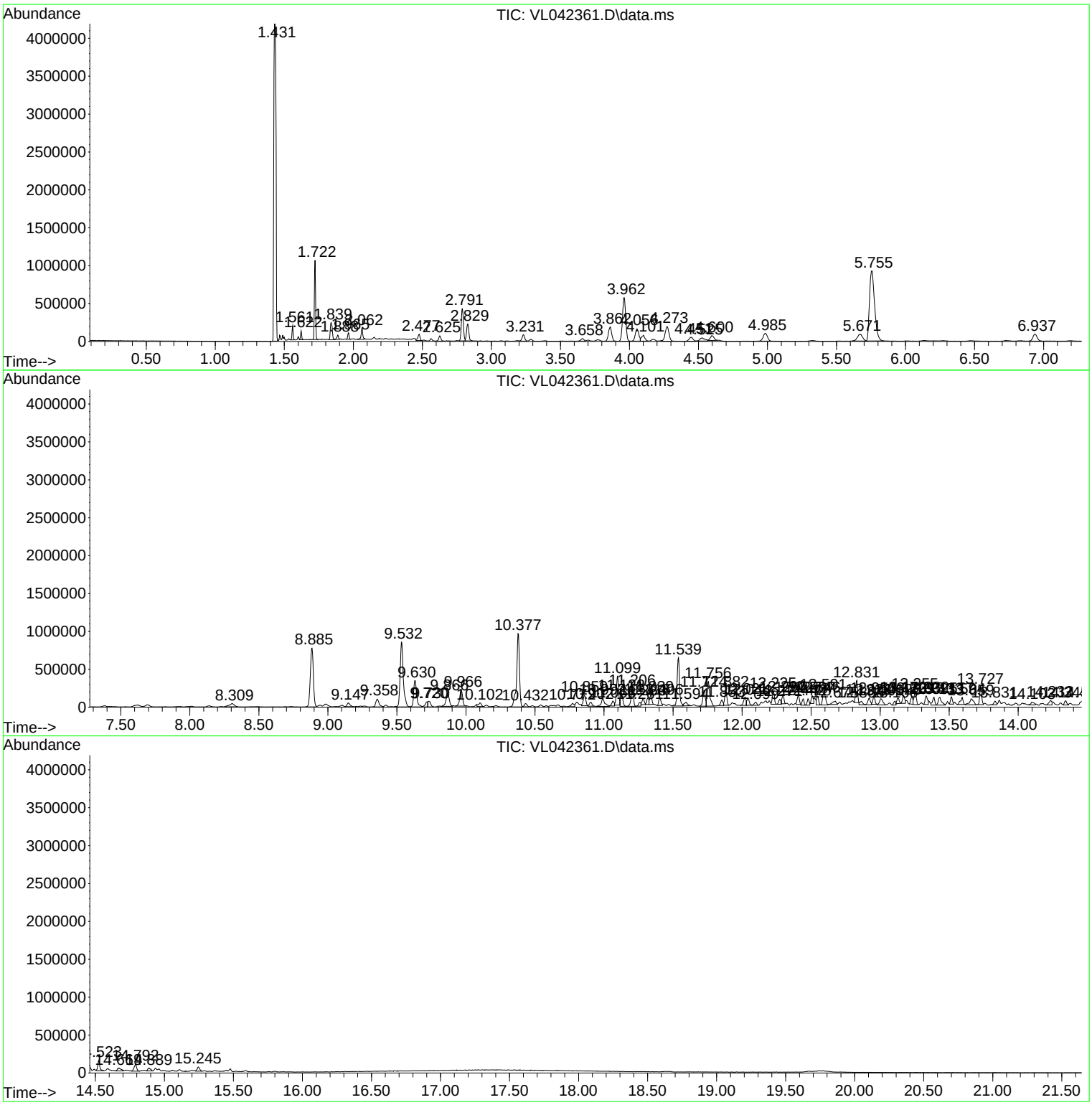
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Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042361.D
Acq On : 17 Apr 2025 17:17
Operator : SY/MD
Sample : Q1668-01
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042361.D
Acq On : 17 Apr 2025 17:17
Operator : SY/MD
Sample : Q1668-01
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

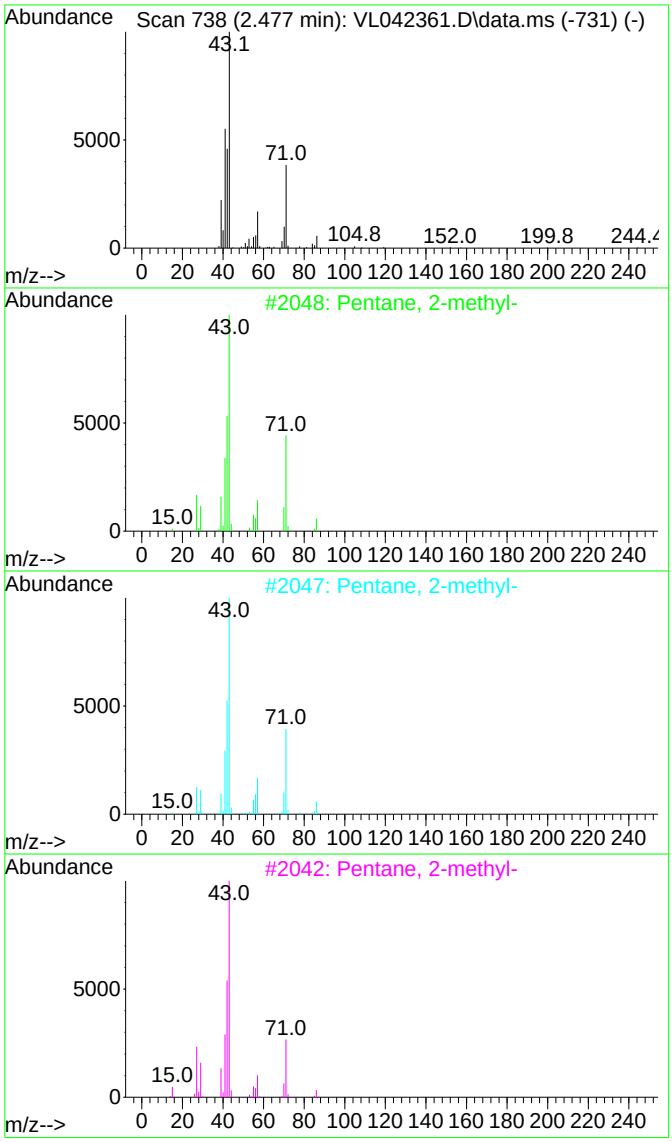
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TIC Integration Parameters: LSCINT.P

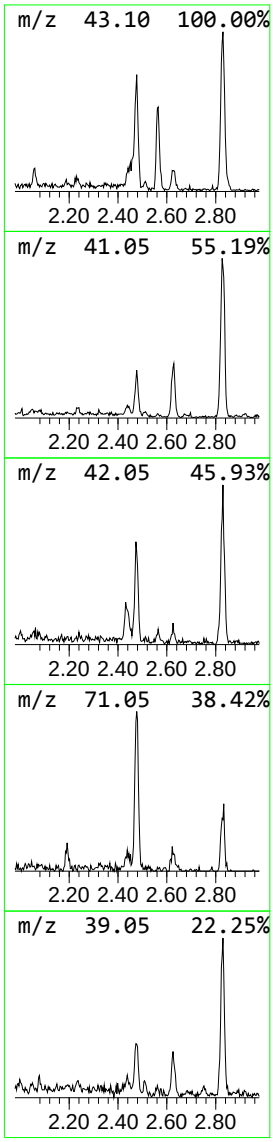
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Peak Number 1 Pentane, 2-methyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.477	2.00 ppbv	90361	Bromochloromethane	2.787

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2-methyl-	86	C6H14	000107-83-5	90
2	Pentane, 2-methyl-	86	C6H14	000107-83-5	90
3	Pentane, 2-methyl-	86	C6H14	000107-83-5	78
4	Pentane, 2-methyl-	86	C6H14	000107-83-5	72
5	Pentane, 2-bromo-	150	C5H11Br	000107-81-3	64





Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042361.D
Acq On : 17 Apr 2025 17:17
Operator : SY/MD
Sample : Q1668-01
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

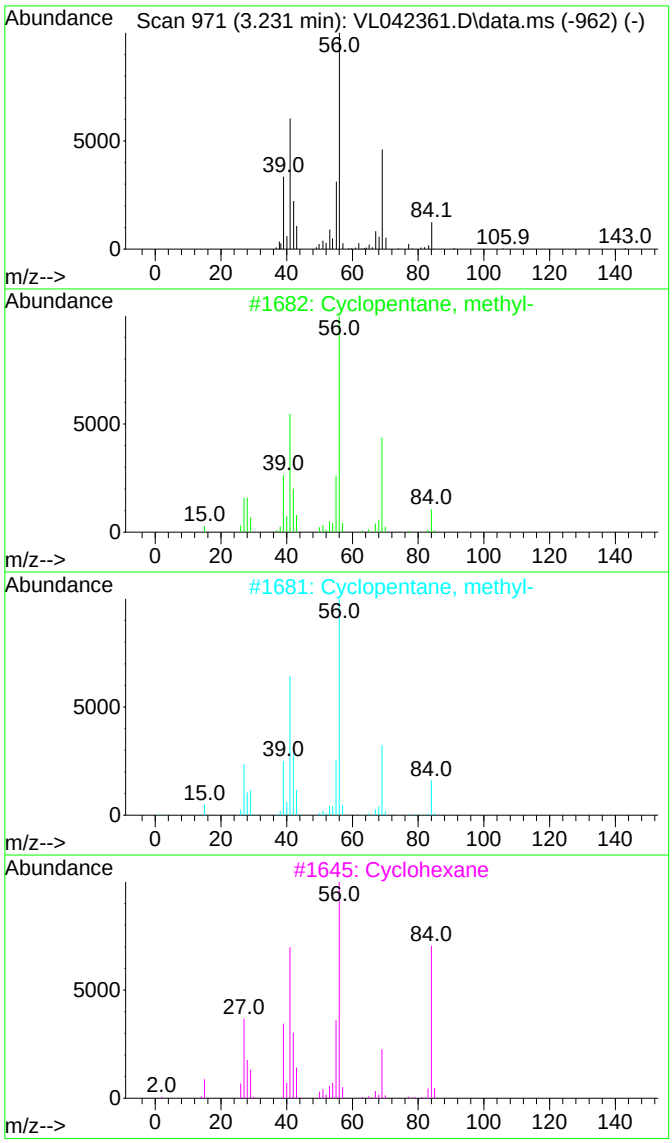
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TIC Integration Parameters: LSCINT.P

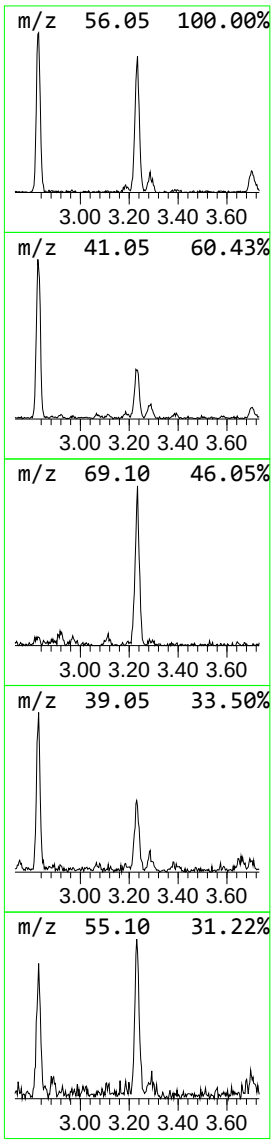
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Peak Number 2 Cyclopentane, methyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.231	2.46 ppbv	111228	Bromochloromethane	2.787

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, methyl-	84	C6H12	000096-37-7	91
2	Cyclopentane, methyl-	84	C6H12	000096-37-7	72
3	Cyclohexane	84	C6H12	000110-82-7	72
4	1H-Tetrazole, 5-methyl-	84	C2H4N4	004076-36-2	59
5	Cyclohexane	84	C6H12	000110-82-7	56





Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042361.D
Acq On : 17 Apr 2025 17:17
Operator : SY/MD
Sample : Q1668-01
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

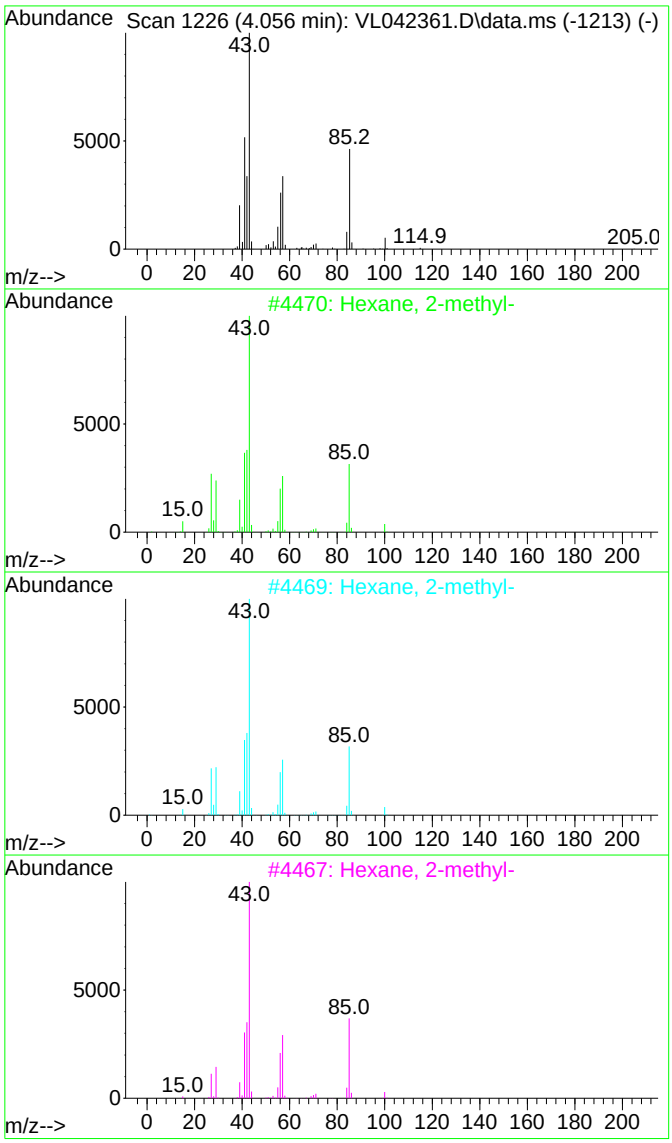
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TIC Integration Parameters: LSCINT.P

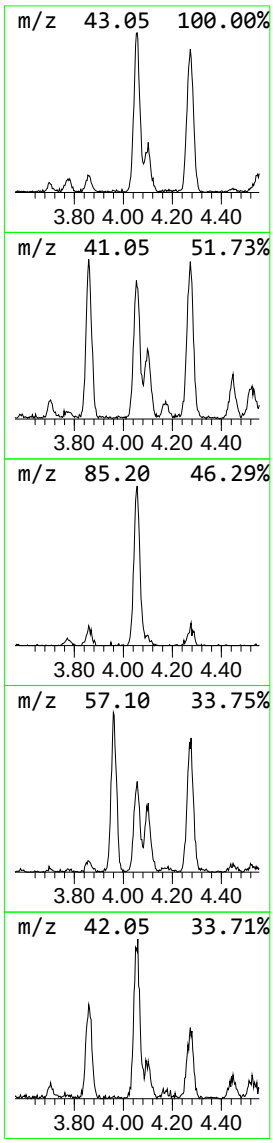
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Peak Number 3 Hexane, 2-methyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.056	3.11 ppbv	288856	1,4-Difluorobenzene	3.959

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2-methyl-	100	C7H16	000591-76-4	91
2	Hexane, 2-methyl-	100	C7H16	000591-76-4	91
3	Hexane, 2-methyl-	100	C7H16	000591-76-4	91
4	Pentane, 2,4-dimethyl-	100	C7H16	000108-08-7	72
5	Octane	114	C8H18	000111-65-9	59





Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042361.D
Acq On : 17 Apr 2025 17:17
Operator : SY/MD
Sample : Q1668-01
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

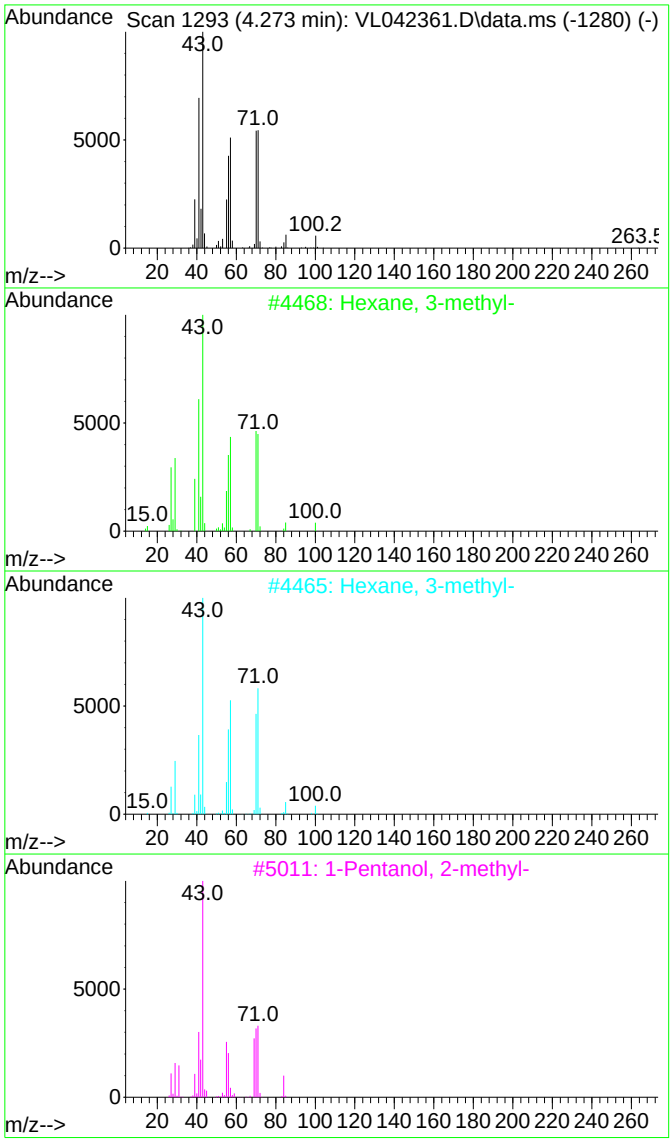
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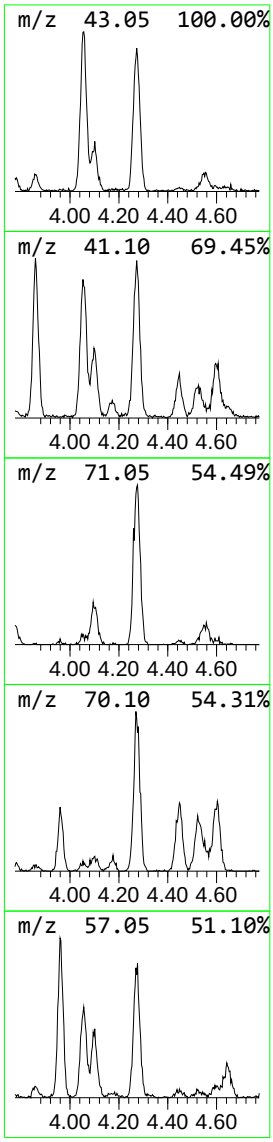
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Peak Number 4 Hexane, 3-methyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.273	3.93 ppbv	365708	1,4-Difluorobenzene	3.959

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 3-methyl-	100	C7H16	000589-34-4	94
2	Hexane, 3-methyl-	100	C7H16	000589-34-4	91
3	1-Pentanol, 2-methyl-	102	C6H14O	000105-30-6	78
4	Hexane, 3-methyl-	100	C7H16	000589-34-4	74
5	Heptane	100	C7H16	000142-82-5	72





Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042361.D
Acq On : 17 Apr 2025 17:17
Operator : SY/MD
Sample : Q1668-01
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

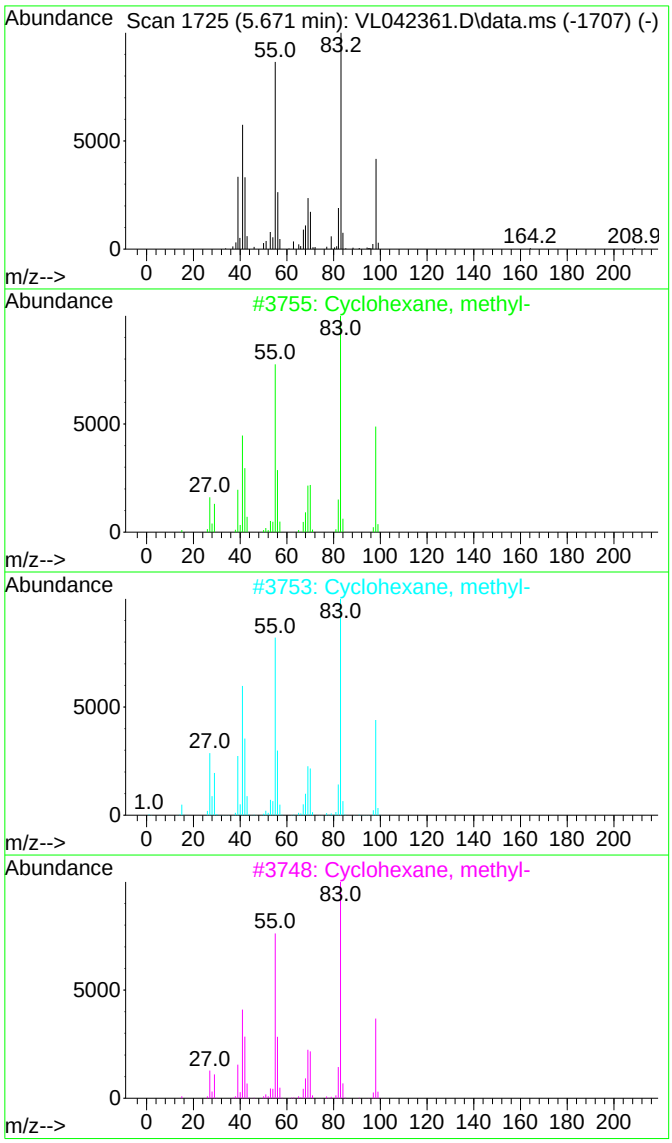
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TIC Integration Parameters: LSCINT.P

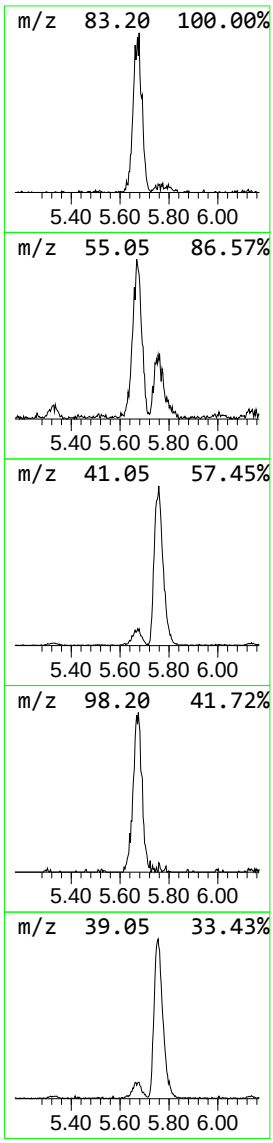
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Peak Number 5 Cyclohexane, methyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.671	2.54 ppbv	236367	1,4-Difluorobenzene	3.959

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, methyl-	98	C7H14	000108-87-2	95
2	Cyclohexane, methyl-	98	C7H14	000108-87-2	94
3	Cyclohexane, methyl-	98	C7H14	000108-87-2	94
4	Cyclohexane, methyl-	98	C7H14	000108-87-2	91
5	Cyclohexane, methyl-	98	C7H14	000108-87-2	91





Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042361.D
Acq On : 17 Apr 2025 17:17
Operator : SY/MD
Sample : Q1668-01
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

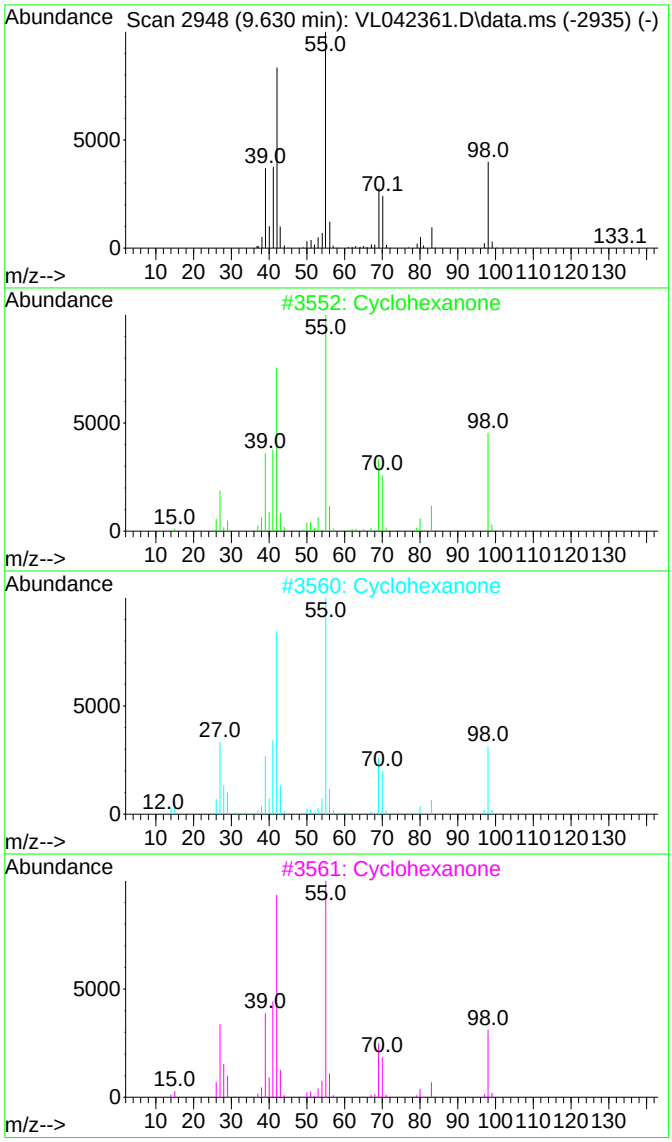
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

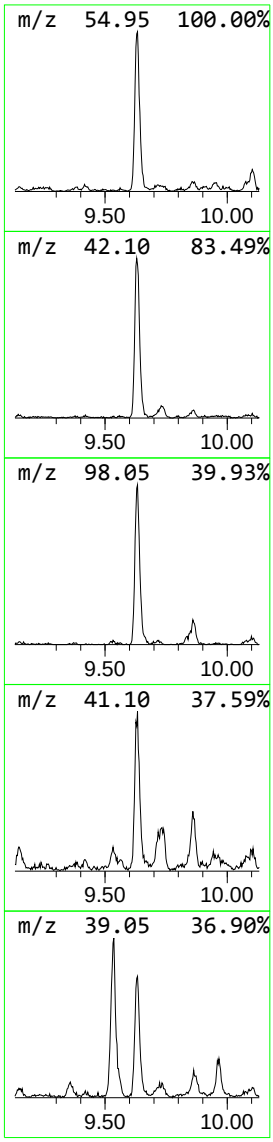
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Peak Number 6 Cyclohexanone Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.630	4.42 ppbv	522696	Chlorobenzene-d5	8.885

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexanone	98	C6H10O	000108-94-1	97
2	Cyclohexanone	98	C6H10O	000108-94-1	94
3	Cyclohexanone	98	C6H10O	000108-94-1	91
4	Cyclohexanone	98	C6H10O	000108-94-1	91
5	Cyclohexanone	98	C6H10O	000108-94-1	91





Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042361.D
Acq On : 17 Apr 2025 17:17
Operator : SY/MD
Sample : Q1668-01
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025

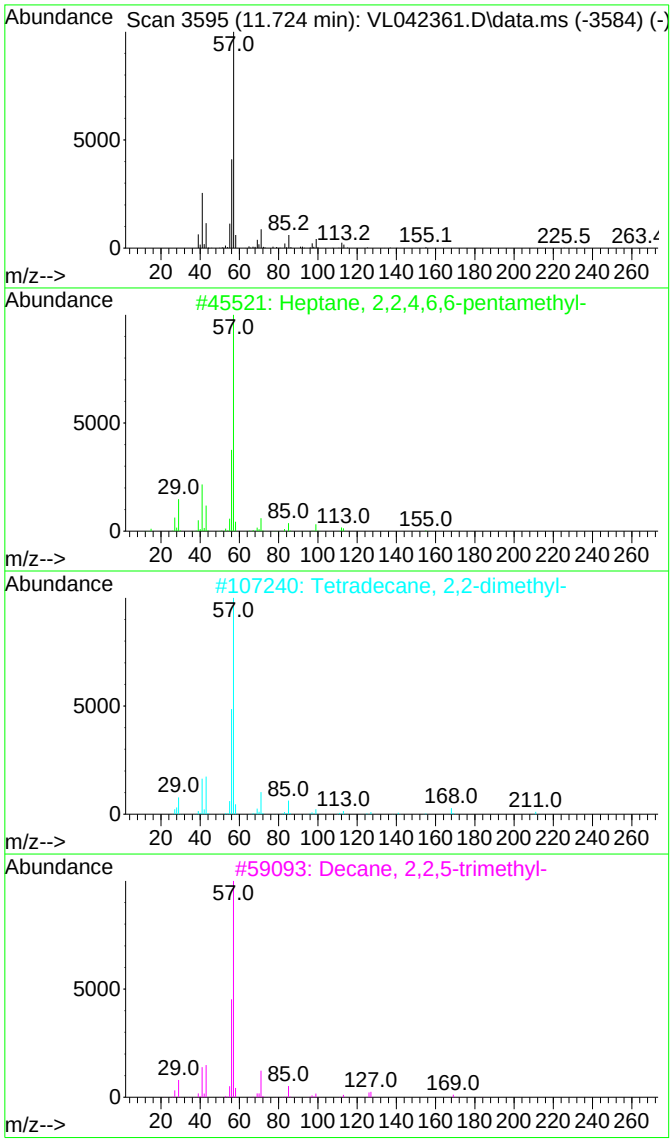
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

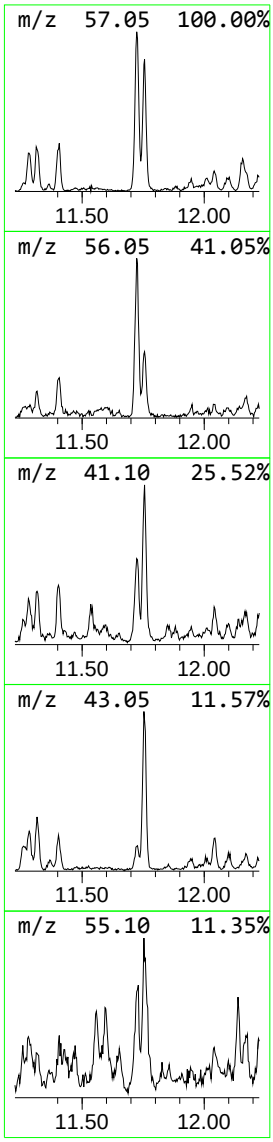
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 7 Heptane, 2,2,4,6,6-pentamet... Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.724	2.22 ppbv	262278	Chlorobenzene-d5	8.885

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptane, 2,2,4,6,6-pentamethyl-	170	C12H26	013475-82-6	90
2	Tetradecane, 2,2-dimethyl-	226	C16H34	059222-86-5	83
3	Decane, 2,2,5-trimethyl-	184	C13H28	062237-96-1	78
4	Dodecane, 2,2,11,11-tetramethyl-	226	C16H34	127204-12-0	78
5	Heptane, 2,2,4,6,6-pentamethyl-	170	C12H26	013475-82-6	78





Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042361.D
Acq On : 17 Apr 2025 17:17
Operator : SY/MD
Sample : Q1668-01
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

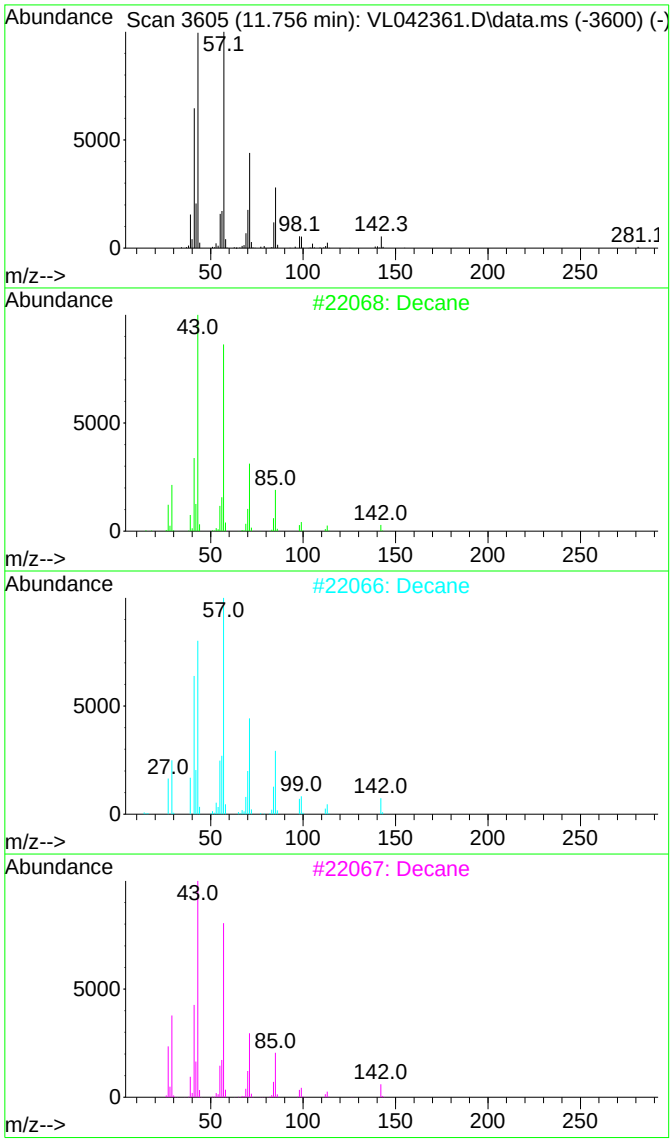
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

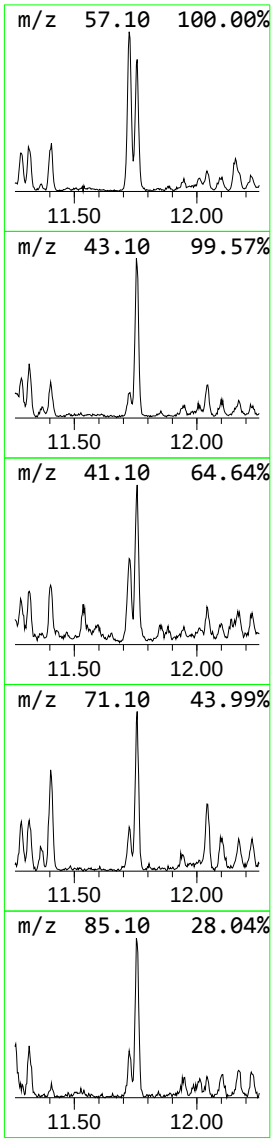
****

Peak Number 8 Decane Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.756	3.61 ppbv	426948	Chlorobenzene-d5	8.885

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Decane	142	C10H22	000124-18-5	91
2	Decane	142	C10H22	000124-18-5	91
3	Decane	142	C10H22	000124-18-5	68
4	Dodecane	170	C12H26	000112-40-3	64
5	Dodecane	170	C12H26	000112-40-3	64





Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042361.D
Acq On : 17 Apr 2025 17:17
Operator : SY/MD
Sample : Q1668-01
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025

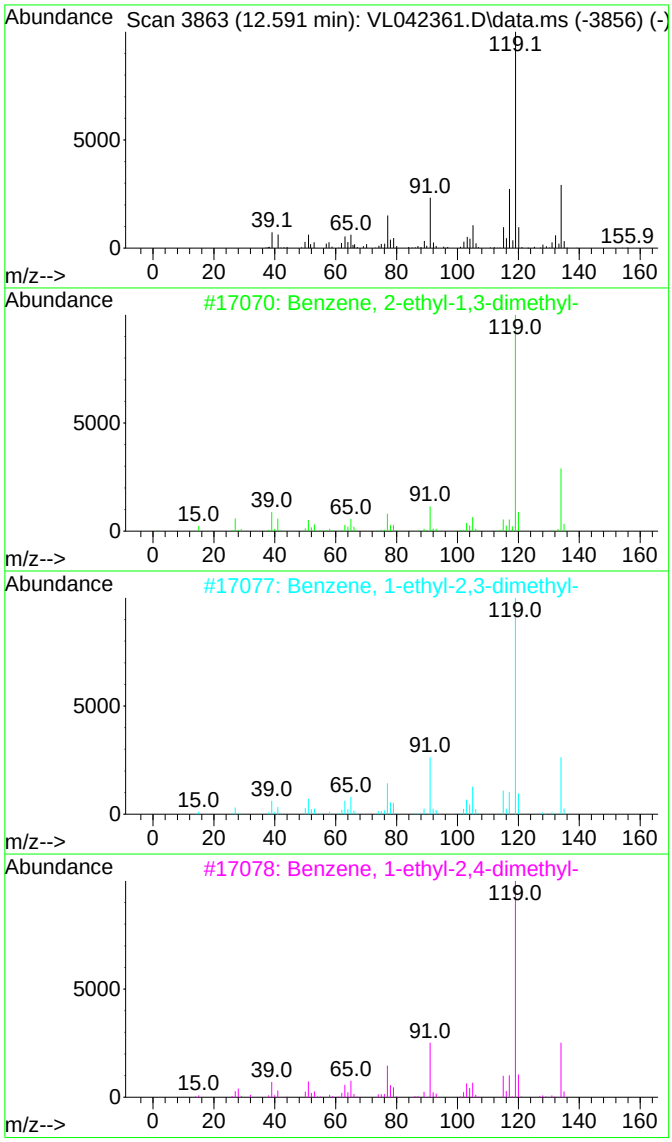
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

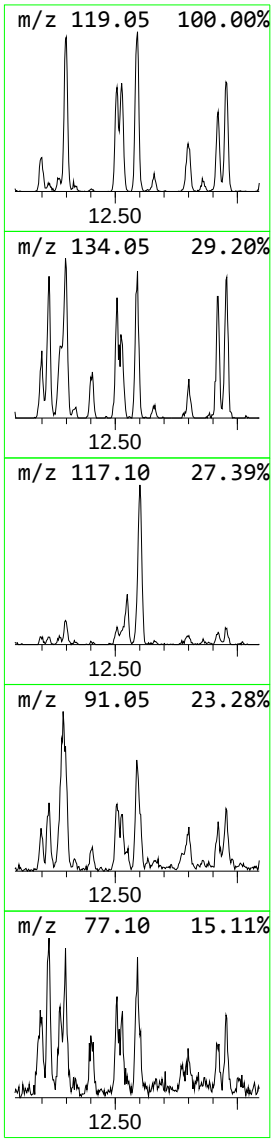
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 9 Benzene, 2-ethyl-1,3-dimethyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.591	1.97 ppbv	232796	Chlorobenzene-d5	8.885

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 2-ethyl-1,3-dimethyl-	134	C10H14	002870-04-4	94
2	Benzene, 1-ethyl-2,3-dimethyl-	134	C10H14	000933-98-2	93
3	Benzene, 1-ethyl-2,4-dimethyl-	134	C10H14	000874-41-9	93
4	Benzene, 4-ethyl-1,2-dimethyl-	134	C10H14	000934-80-5	91
5	Benzene, 1,2,3,4-tetramethyl-	134	C10H14	000488-23-3	87





Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042361.D
Acq On : 17 Apr 2025 17:17
Operator : SY/MD
Sample : Q1668-01
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

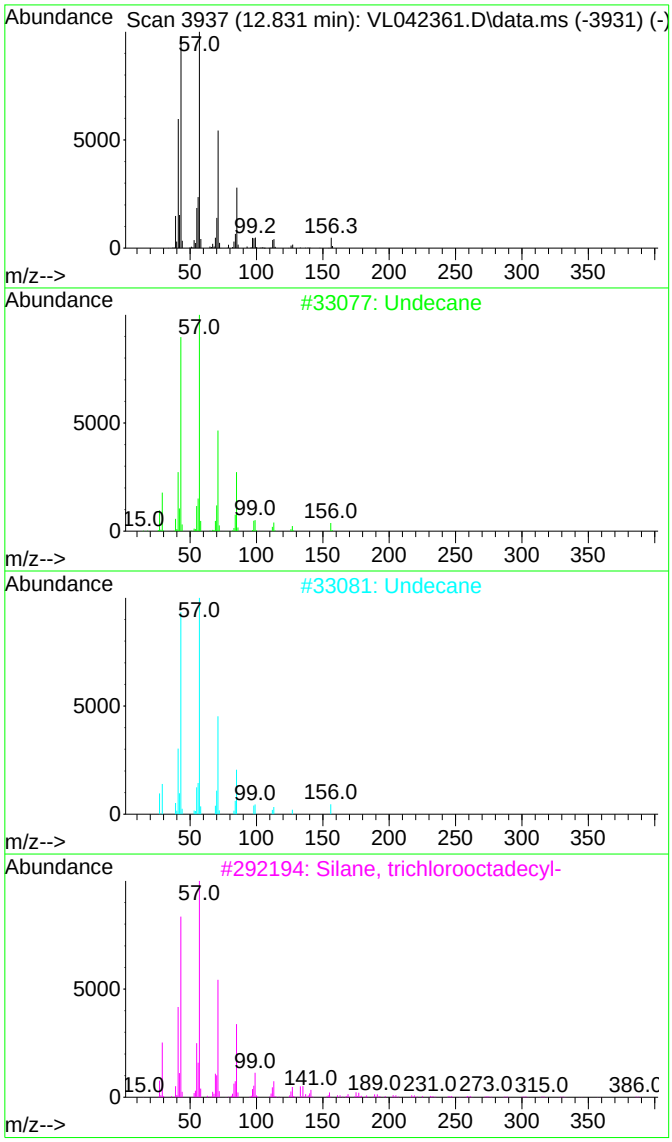
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

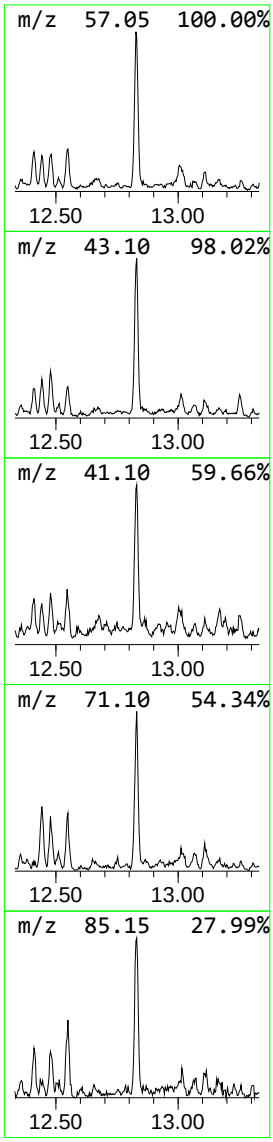
****

Peak Number 10 Undecane Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.831	2.37 ppbv	280563	Chlorobenzene-d5	8.885

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Undecane	156	C11H24	001120-21-4	87
2	Undecane	156	C11H24	001120-21-4	87
3	Silane, trichlorooctadecyl-	386	C18H37Cl3Si	000112-04-9	78
4	Undecane	156	C11H24	001120-21-4	76
5	Tridecane	184	C13H28	000629-50-5	72





Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042361.D
Acq On : 17 Apr 2025 17:17
Operator : SY/MD
Sample : Q1668-01
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Pentane, 2-methyl-	2.477	2.0	ppbv	90361	1	2.787	451417	10.0
Cyclopentane, m...	3.231	2.5	ppbv	111228	1	2.787	451417	10.0
Hexane, 2-methyl-	4.056	3.1	ppbv	288856	2	3.959	929855	10.0
Hexane, 3-methyl-	4.273	3.9	ppbv	365708	2	3.959	929855	10.0
Cyclohexane, me...	5.671	2.5	ppbv	236367	2	3.959	929855	10.0
Cyclohexanone	9.630	4.4	ppbv	522696	3	8.885	1181830	10.0
Heptane, 2,2,4,...	11.724	2.2	ppbv	262278	3	8.885	1181830	10.0
Decane	11.756	3.6	ppbv	426948	3	8.885	1181830	10.0
Benzene, 2-ethy...	12.591	2.0	ppbv	232796	3	8.885	1181830	10.0
Undecane	12.831	2.4	ppbv	280563	3	8.885	1181830	10.0

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Fax : 908 789 8922

Report of Analysis

Client:	Woodard & Curran	Date Collected:	03/26/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	03/27/25
Client Sample ID:	IA-B1-4-3252025DL	SDG No.:	Q1668
Lab Sample ID:	Q1668-01DL	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042374.D	4		04/18/25 00:28	VL041725

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.84	4.15	UD	4.15	9.89	ug/m3
74-87-3	Chloromethane	0.79	1.63	JD	0.81	4.13	ug/m3
75-01-4	Vinyl Chloride	0.060	0.15	UD	0.15	0.31	ug/m3
74-83-9	Bromomethane	0.56	2.17	UD	2.17	7.77	ug/m3
75-00-3	Chloroethane	0.68	1.79	UD	1.79	5.28	ug/m3
109-99-9	Tetrahydrofuran	0.52	1.53	UD	1.53	5.90	ug/m3
75-69-4	Trichlorofluoromethane	0.64	3.60	UD	3.60	11.2	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	0.64	4.91	UD	4.91	15.3	ug/m3
76-14-2	Dichlorotetrafluoroethane	0.35	2.45	UD	2.45	14.0	ug/m3
75-65-0	tert-Butyl alcohol	0.76	2.30	UD	2.30	6.06	ug/m3
142-82-5	Heptane	2.20	9.02	D	1.80	8.20	ug/m3
75-35-4	1,1-Dichloroethene	0.56	2.22	UD	2.22	7.93	ug/m3
67-64-1	Acetone	6.60	15.7	D	2.28	4.75	ug/m3
75-15-0	Carbon Disulfide	0.64	1.99	UD	1.99	6.23	ug/m3
1634-04-4	Methyl tert-Butyl Ether	0.48	1.73	UD	1.73	7.21	ug/m3
75-09-2	Methylene Chloride	4.90	17.0	D	2.64	6.95	ug/m3
156-60-5	trans-1,2-Dichloroethene	0.76	3.01	UD	3.01	7.93	ug/m3
75-34-3	1,1-Dichloroethane	0.52	2.10	UD	2.10	8.09	ug/m3
110-82-7	Cyclohexane	3.90	13.4	D	3.03	6.88	ug/m3
78-93-3	2-Butanone	0.90	2.65	JD	1.42	5.90	ug/m3
56-23-5	Carbon Tetrachloride	0.040	0.25	UD	0.25	0.75	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.36	1.43	UD	1.43	7.93	ug/m3
67-66-3	Chloroform	0.33	1.61	UD	1.61	9.77	ug/m3
71-55-6	1,1,1-Trichloroethane	0.040	0.22	UD	0.22	0.65	ug/m3
540-84-1	2,2,4-Trimethylpentane	0.40	1.87	UD	1.87	9.34	ug/m3
71-43-2	Benzene	0.69	2.20	JD	1.12	6.39	ug/m3
107-06-2	1,2-Dichloroethane	0.36	1.46	UD	1.46	8.09	ug/m3
79-01-6	Trichloroethene	0.070	0.38	UD	0.38	0.64	ug/m3
78-87-5	1,2-Dichloropropane	0.44	2.03	UD	2.03	9.24	ug/m3
75-27-4	Bromodichloromethane	0.31	2.08	UD	2.08	13.4	ug/m3
108-10-1	4-Methyl-2-Pentanone	20.7	84.8	D	1.52	8.20	ug/m3
108-88-3	Toluene	1.80	6.78	JD	1.66	7.54	ug/m3
10061-02-6	t-1,3-Dichloropropene	0.24	1.09	UD	1.09	9.08	ug/m3
10061-01-5	cis-1,3-Dichloropropene	0.26	1.18	UD	1.18	9.08	ug/m3
79-00-5	1,1,2-Trichloroethane	0.28	1.53	UD	1.53	10.9	ug/m3

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Fax : 908 789 8922

Report of Analysis

Client:	Woodard & Curran	Date Collected:	03/26/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	03/27/25
Client Sample ID:	IA-B1-4-3252025DL	SDG No.:	Q1668
Lab Sample ID:	Q1668-01DL	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042374.D	4		04/18/25 00:28	VL041725

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	0.26	2.22	UD	2.22	17.0	ug/m3
106-93-4	1,2-Dibromoethane	0.29	2.23	UD	2.23	3.07	ug/m3
127-18-4	Tetrachloroethene	0.060	0.41	UD	0.41	0.81	ug/m3
108-90-7	Chlorobenzene	0.30	1.38	UD	1.38	9.21	ug/m3
100-41-4	Ethyl Benzene	1.00	4.34	JD	2.08	8.69	ug/m3
179601-23-1	m/p-Xylene	10.1	43.9	D	3.65	17.4	ug/m3
95-47-6	o-Xylene	2.10	9.12	D	2.08	8.69	ug/m3
100-42-5	Styrene	1.70	7.24	JD	1.87	8.52	ug/m3
75-25-2	Bromoform	0.23	2.38	UD	2.38	20.7	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	0.040	0.27	UD	0.27	0.82	ug/m3
95-49-8	2-Chlorotoluene	0.44	2.28	UD	2.28	10.4	ug/m3
108-67-8	1,3,5-Trimethylbenzene	1.30	6.39	JD	2.16	9.83	ug/m3
95-63-6	1,2,4-Trimethylbenzene	4.20	20.6	D	1.52	9.83	ug/m3
541-73-1	1,3-Dichlorobenzene	0.32	1.92	UD	1.92	12.0	ug/m3
106-46-7	1,4-Dichlorobenzene	0.21	1.26	UD	1.26	12.0	ug/m3
95-50-1	1,2-Dichlorobenzene	0.30	1.80	UD	1.80	12.0	ug/m3
120-82-1	1,2,4-Trichlorobenzene	0.34	2.52	UD	2.52	14.8	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	0.34	3.63	UD	3.63	21.3	ug/m3
106-99-0	1,3-Butadiene	0.52	1.15	UD	1.15	4.42	ug/m3
91-20-3	Naphthalene	0.61	3.20	D	1.57	2.10	ug/m3
622-96-8	4-Ethyltoluene	1.20	5.90	JD	2.36	9.83	ug/m3
110-54-3	Hexane	4.20	14.8	D	1.55	7.05	ug/m3
107-05-1	Allyl Chloride	0.60	1.88	UD	1.88	6.26	ug/m3
123-91-1	1,4-Dioxane	0.84	3.03	UD	3.03	7.21	ug/m3
80-62-6	Methyl Methacrylate	0.34	1.39	UD	1.39	8.19	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	10.0			70 (65) - 130 (135)	100%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	104000		2.787			
540-36-3	1,4-Difluorobenzene	294000		3.959			
3114-55-4	Chlorobenzene-d5	258000		8.882			

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Fax : 908 789 8922

Report of Analysis

Client:	Woodard & Curran	Date Collected:	03/26/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	03/27/25
Client Sample ID:	IA-B1-4-3252025DL	SDG No.:	Q1668
Lab Sample ID:	Q1668-01DL	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042374.D	4		04/18/25 00:28	VL041725

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
RL = Reporting Limit
MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042374.D
Acq On : 18 Apr 2025 00:28
Operator : SY/MD
Sample : Q1668-01DL 4X
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 18 02:47:53 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025DL

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.787	49	104470	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.959	114	294101	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.882	117	258444	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.377	95	213140	10.036	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 100.400%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.499	85	3131	0.170	ppbv		89
4) Chloromethane	1.534	50	1444	0.198	ppbv		96
9) Propene	1.486	41	1595	0.199	ppbv		92
10) Heptane	4.978	43	12111m	0.539	ppbv		
13) Ethanol	1.722	45	89338	70.220	ppbv		76
15) Acetone	1.835	43	28193	1.649	ppbv		98
19) Isopropyl Alcohol	1.887	45	6632	0.698	ppbv	#	1
20) Methylene Chloride	2.062	84	8259	1.233	ppbv		86
26) Hexane	2.823	57	17764	1.041	ppbv	#	33
30) Cyclohexane	3.858	84	13322	0.966	ppbv		97
34) 2-Butanone	2.564	43	5208m	0.224	ppbv		
36) Benzene	3.654	78	5447m	0.172	ppbv		
50) 4-Methyl-2-Pentanone	5.755	43	200233	5.180	ppbv		98
53) Toluene	6.933	91	17117m	0.450	ppbv		
58) Ethyl Benzene	9.354	91	13008	0.254	ppbv		93
59) m/p-Xylene	9.532	91	104338	2.529	ppbv		99
60) o-Xylene	9.963	91	22264	0.536	ppbv		99
61) Styrene	9.872	104	8460	0.427	ppbv		97
64) n-propylbenzene	10.992	120	2068	0.135	ppbv		91
70) n-Butylbenzene	12.280	91	7143m	0.101	ppbv		
72) 4-Ethyltoluene	11.125	105	14677	0.289	ppbv	#	56
73) 1,3,5-Trimethylbenzene	11.202	105	14990	0.334	ppbv		89
74) 1,2,4-Trimethylbenzene	11.536	105	55625	1.062	ppbv	#	62
79) Naphthalene	13.516	128	9572	0.153	ppbv	#	92

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

Quantitation Report (QT Reviewed)

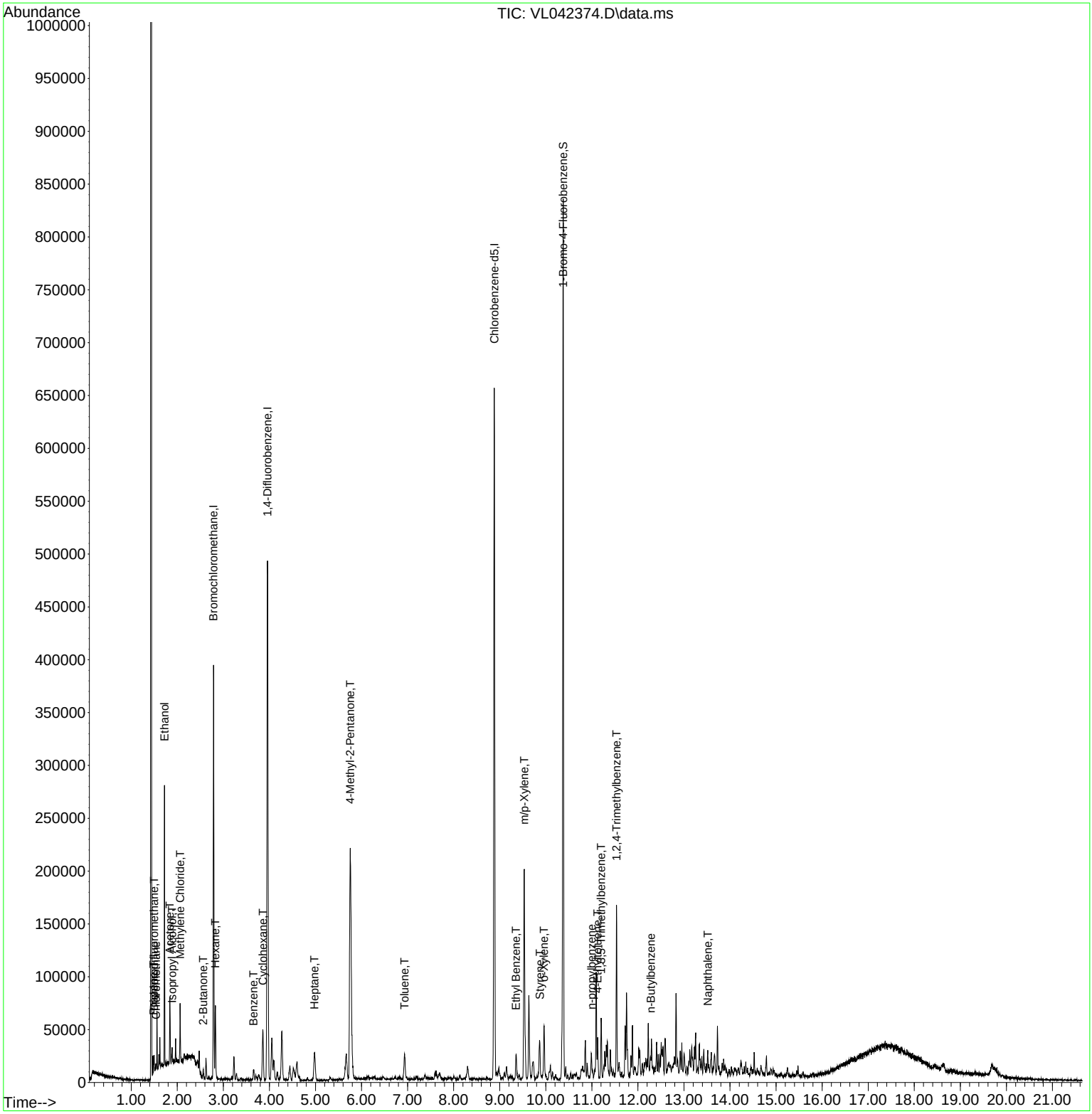
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042374.D
Acq On : 18 Apr 2025 00:28
Operator : SY/MD
Sample : Q1668-01DL 4X
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

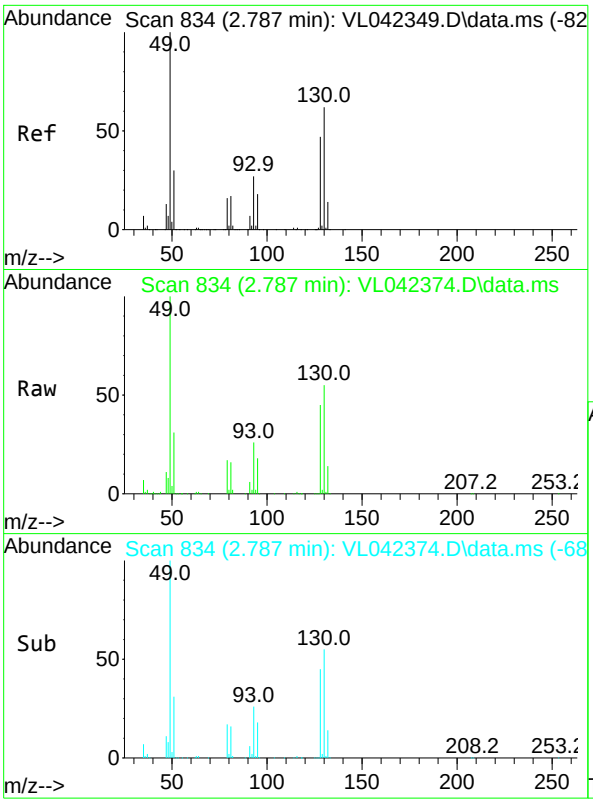
Quant Time: Apr 18 02:47:53 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025DL

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

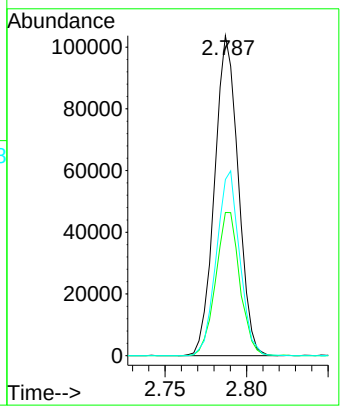




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL042374.D
Acq: 18 Apr 2025 00:28

Tgt Ion: 49 Resp: 10447

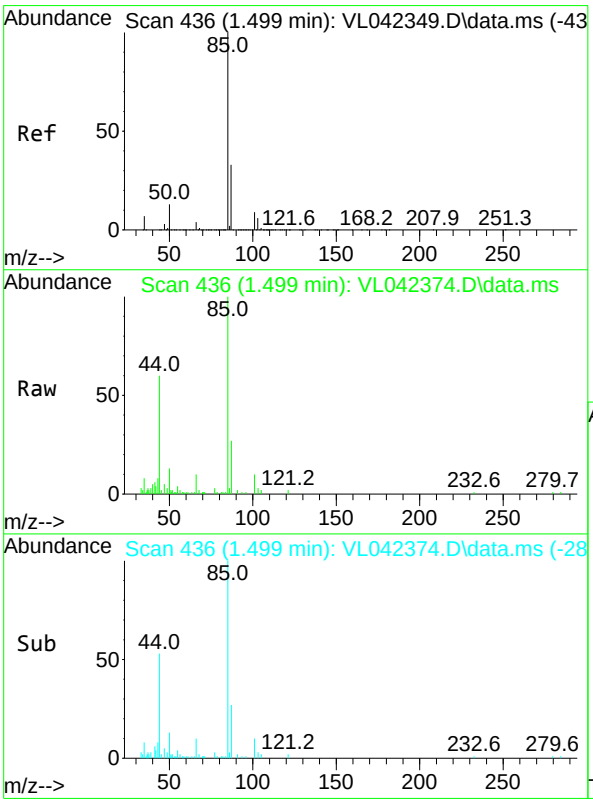
Ion	Ratio	Lower	Upper
49	100		
128	45.6	22.8	68.4
130	56.8	29.3	88.0



Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025DL

Manual Integrations
APPROVED

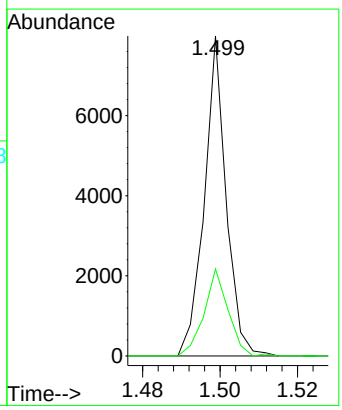
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

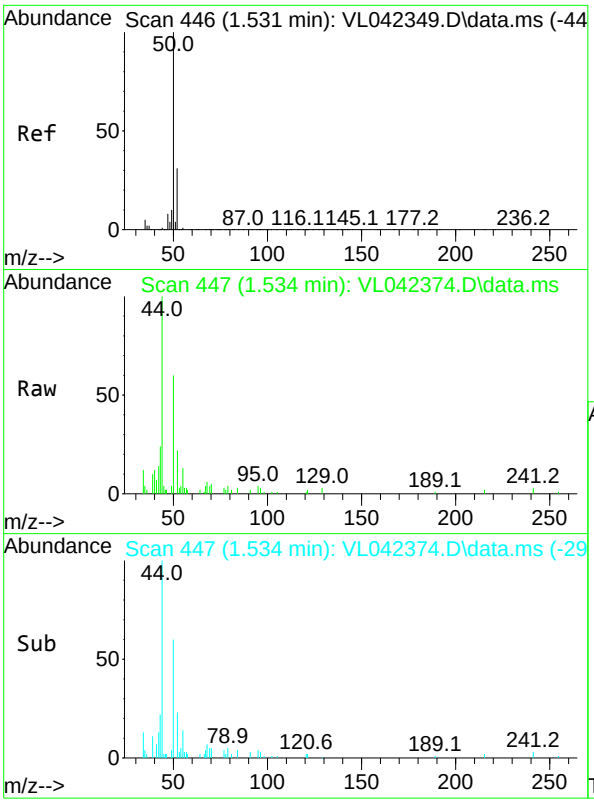


#2
Dichlorodifluoromethane
Concen: 0.170 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.000 min
Lab File: VL042374.D
Acq: 18 Apr 2025 00:28

Tgt Ion: 85 Resp: 3131

Ion	Ratio	Lower	Upper
85	100		
87	27.2	26.6	39.8

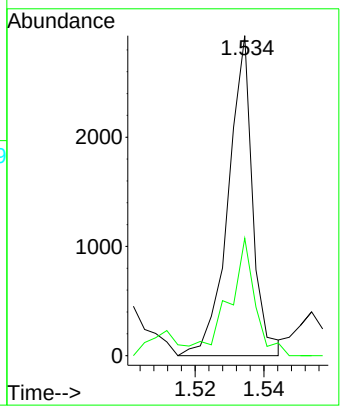




#4
Chloromethane
Concen: 0.198 ppbv
RT: 1.534 min Scan# 44
Delta R.T. 0.003 min
Lab File: VL042374.D
Acq: 18 Apr 2025 00:28

Tgt Ion: 50 Resp: 144

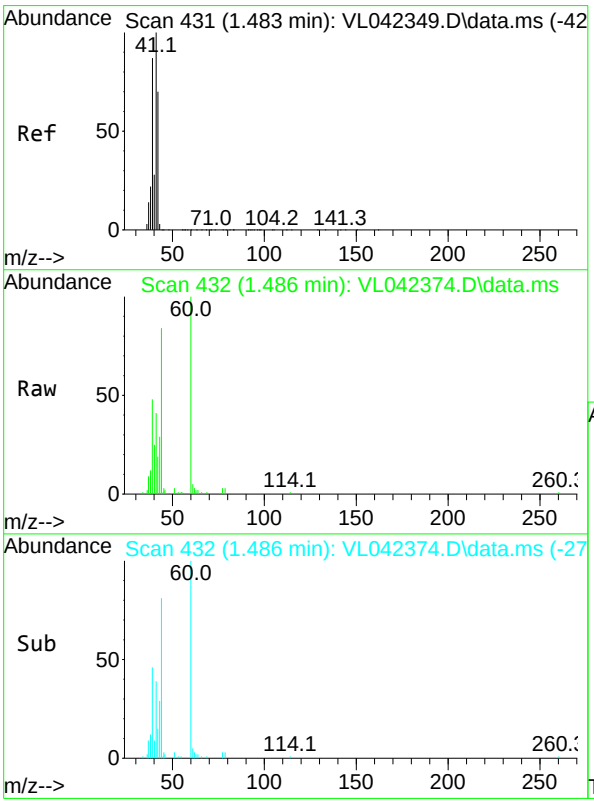
Ion	Ratio	Lower	Upper
50	100		
52	33.3	24.7	37.1



Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025DL

Manual Integrations
APPROVED

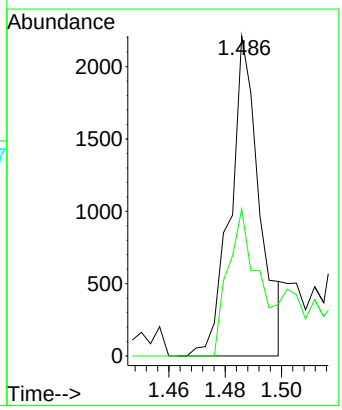
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

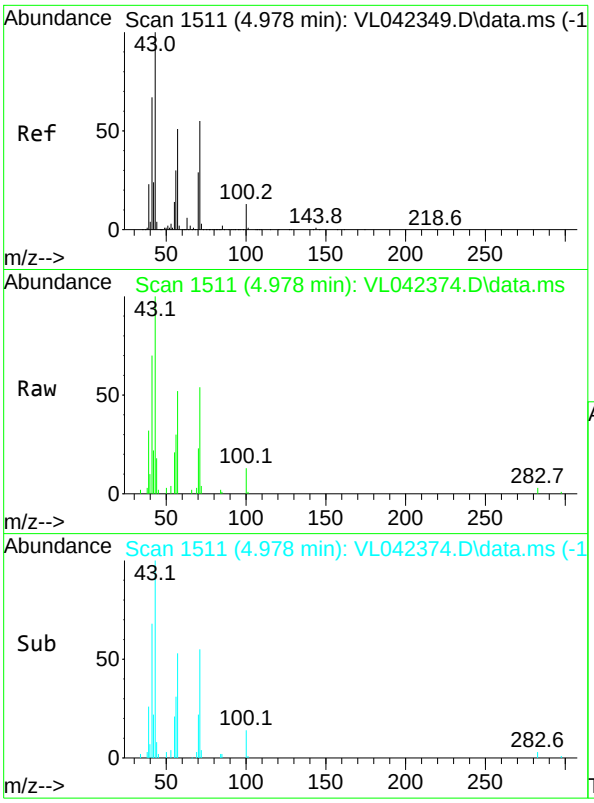


#9
Propene
Concen: 0.199 ppbv
RT: 1.486 min Scan# 432
Delta R.T. 0.003 min
Lab File: VL042374.D
Acq: 18 Apr 2025 00:28

Tgt Ion: 41 Resp: 1595

Ion	Ratio	Lower	Upper
41	100		
42	63.9	56.2	84.4

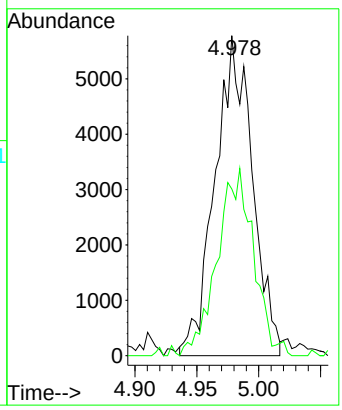




#10
Heptane
Concen: 0.539 ppbv m
RT: 4.978 min Scan# 1
Delta R.T. 0.000 min
Lab File: VL042374.D
Acq: 18 Apr 2025 00:28

Tgt Ion: 43 Resp: 1211

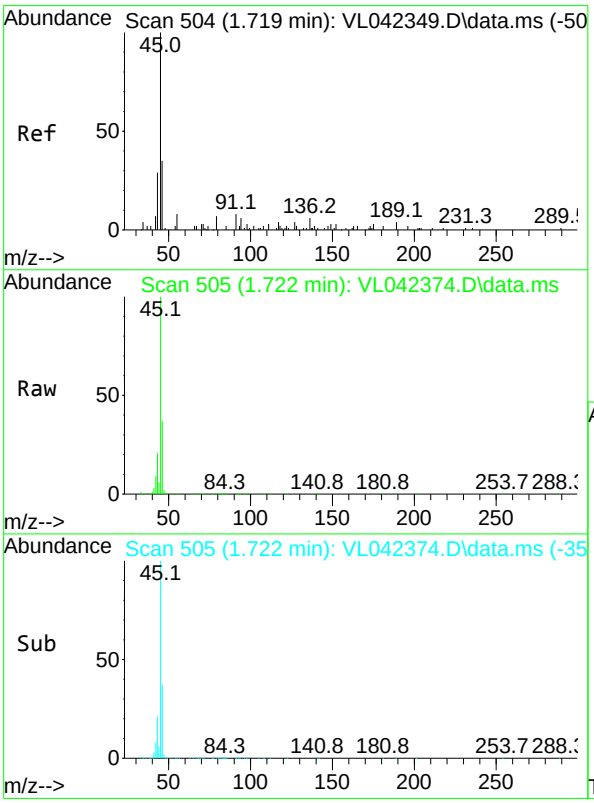
Ion	Ratio	Lower	Upper
43	100		
57	0.0	39.9	59.9



Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025DL

Manual Integrations
APPROVED

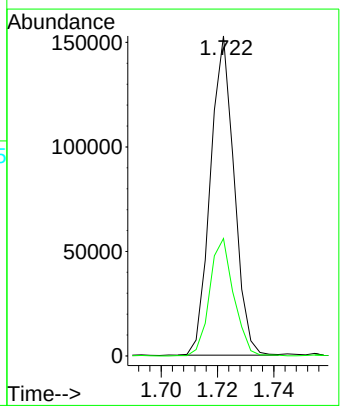
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

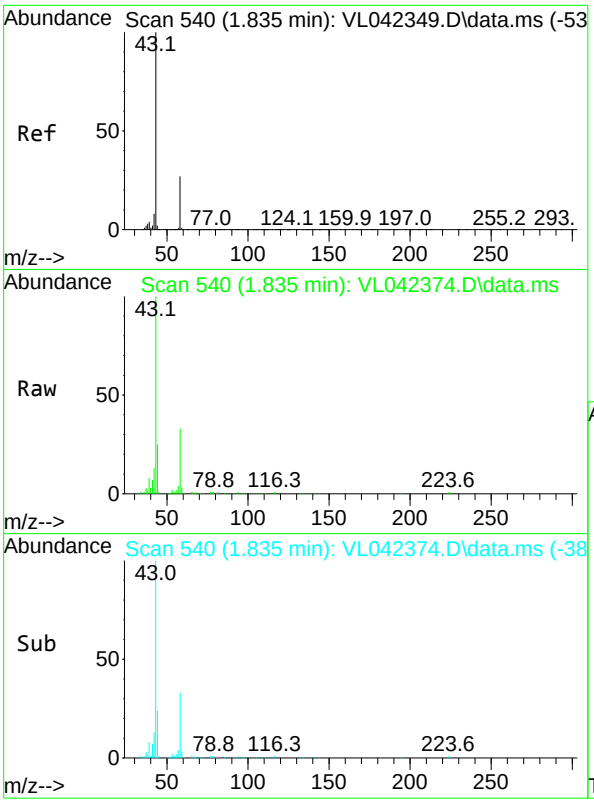


#13
Ethanol
Concen: 70.220 ppbv
RT: 1.722 min Scan# 505
Delta R.T. 0.003 min
Lab File: VL042374.D
Acq: 18 Apr 2025 00:28

Tgt Ion: 45 Resp: 89338

Ion	Ratio	Lower	Upper
45	100		
46	37.5	21.9	87.7

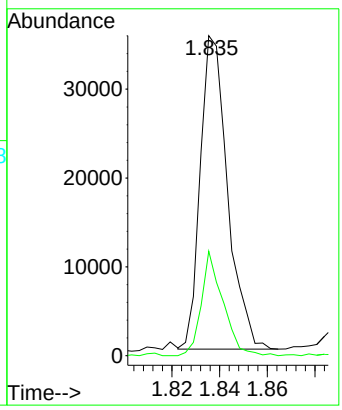




#15
Acetone
Concen: 1.649 ppbv
RT: 1.835 min Scan# 54
Delta R.T. 0.000 min
Lab File: VL042374.D
Acq: 18 Apr 2025 00:28

Tgt Ion: 43 Resp: 2819

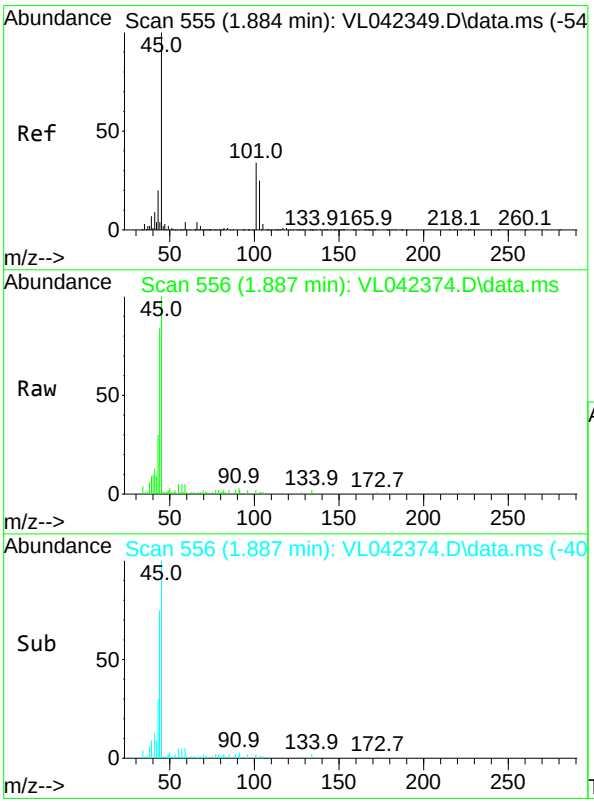
Ion	Ratio	Lower	Upper
43	100		
58	27.1	22.4	33.6



Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025DL

Manual Integrations
APPROVED

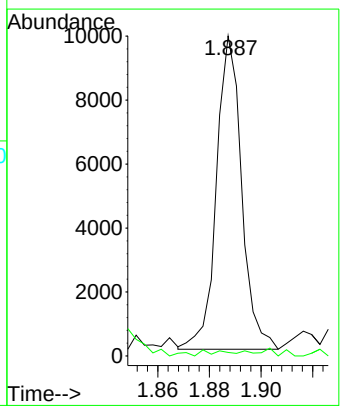
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

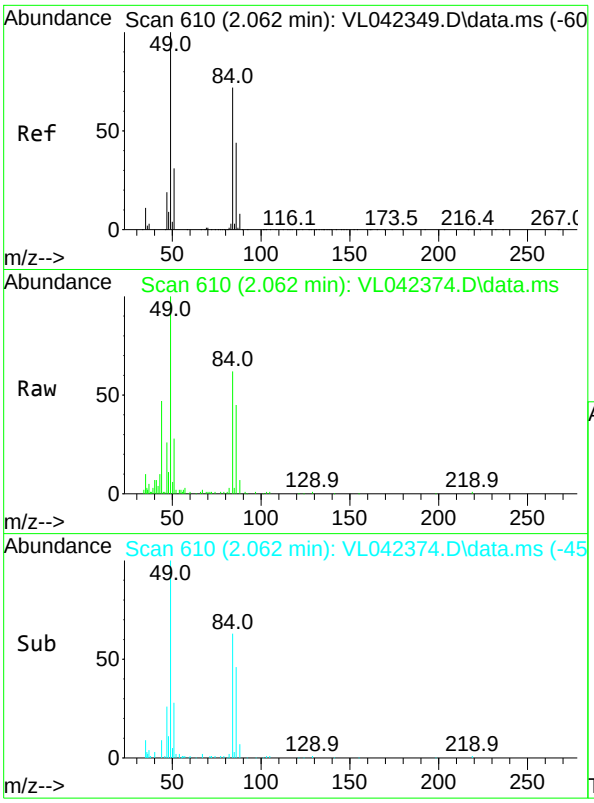


#19
Isopropyl Alcohol
Concen: 0.698 ppbv
RT: 1.887 min Scan# 556
Delta R.T. 0.003 min
Lab File: VL042374.D
Acq: 18 Apr 2025 00:28

Tgt Ion: 45 Resp: 6632

Ion	Ratio	Lower	Upper
45	100		
58	115.4	34.5	51.7#

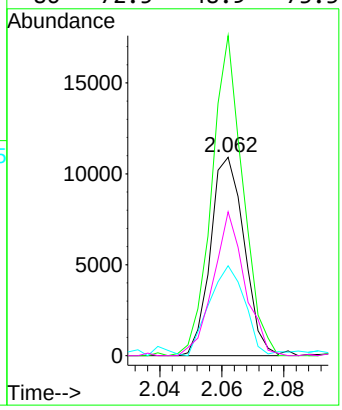




#20
Methylene Chloride
Concen: 1.233 ppbv
RT: 2.062 min Scan# 6
Delta R.T. 0.000 min
Lab File: VL042374.D
Acq: 18 Apr 2025 00:28

Tgt Ion: 84 Resp: 825

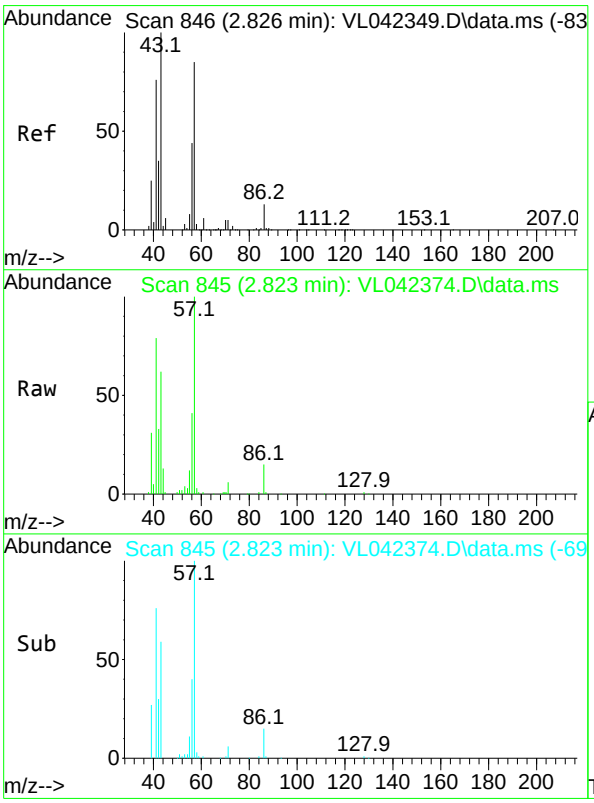
Ion	Ratio	Lower	Upper
84	100		
49	161.3	111.6	167.4
51	44.5	35.1	52.7
86	72.5	48.9	73.3



Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025DL

Manual Integrations
APPROVED

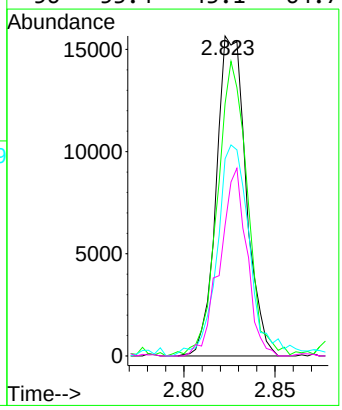
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

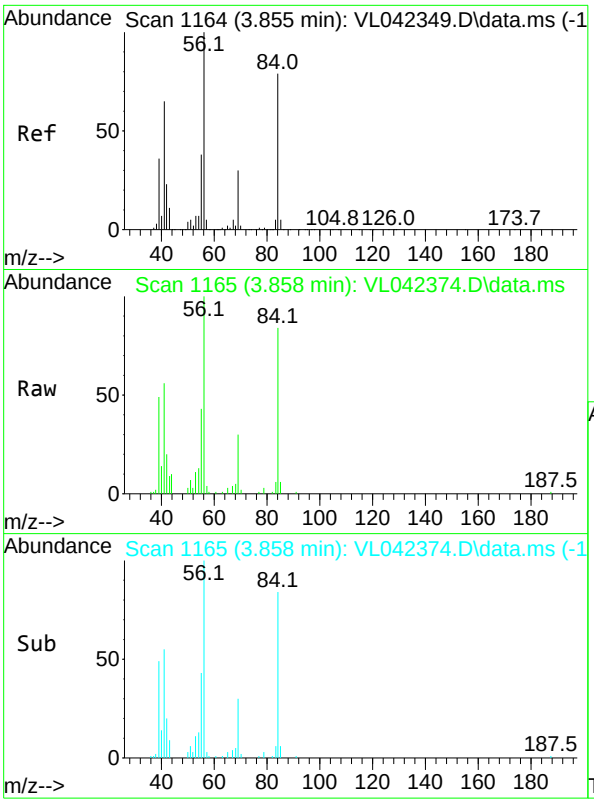


#26
Hexane
Concen: 1.041 ppbv
RT: 2.823 min Scan# 845
Delta R.T. -0.003 min
Lab File: VL042374.D
Acq: 18 Apr 2025 00:28

Tgt Ion: 57 Resp: 17764

Ion	Ratio	Lower	Upper
57	100		
41	92.1	77.9	116.9
43	74.3	208.4	312.6#
56	53.4	43.1	64.7

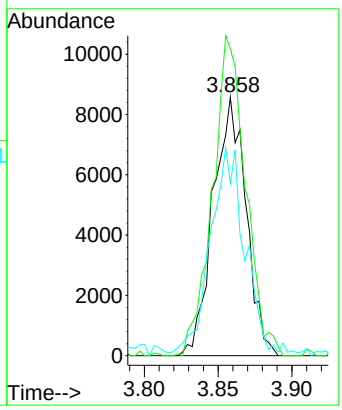




#30
Cyclohexane
Concen: 0.966 ppbv
RT: 3.858 min Scan# 11
Delta R.T. 0.003 min
Lab File: VL042374.D
Acq: 18 Apr 2025 00:28

Tgt Ion: 84 Resp: 1332

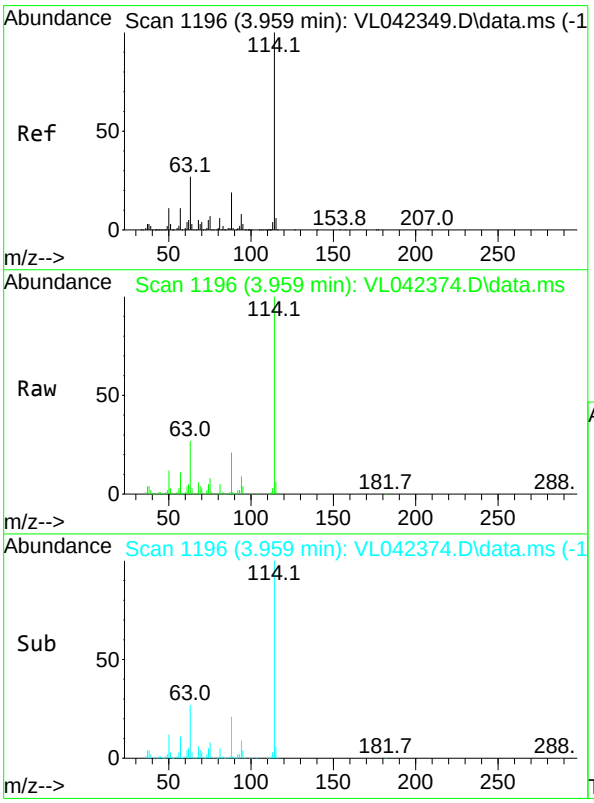
Ion	Ratio	Lower	Upper
84	100		
56	124.4	101.0	151.4
41	88.1	67.4	101.0



Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025DL

Manual Integrations
APPROVED

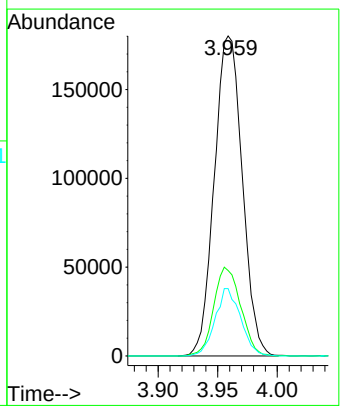
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

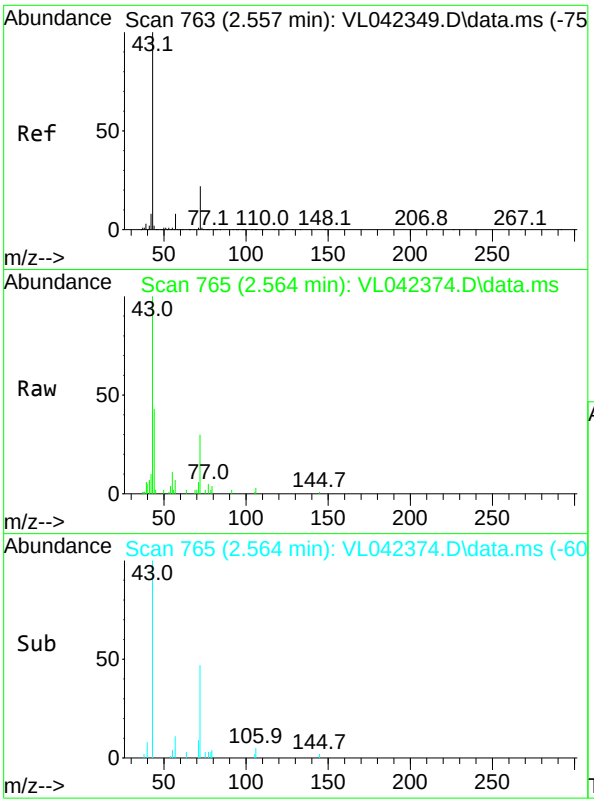


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.959 min Scan# 1196
Delta R.T. 0.000 min
Lab File: VL042374.D
Acq: 18 Apr 2025 00:28

Tgt Ion:114 Resp: 294101

Ion	Ratio	Lower	Upper
114	100		
63	26.8	21.8	32.6
88	19.2	15.5	23.3

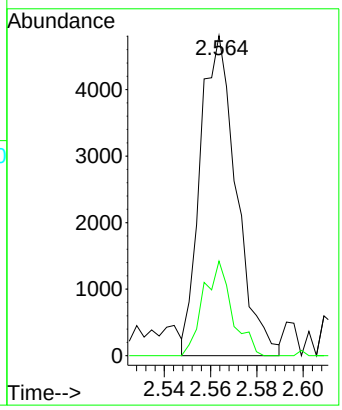




#34
2-Butanone
Concen: 0.224 ppbv m
RT: 2.564 min Scan# 7
Delta R.T. 0.006 min
Lab File: VL042374.D
Acq: 18 Apr 2025 00:28

Tgt Ion: 43 Resp: 520

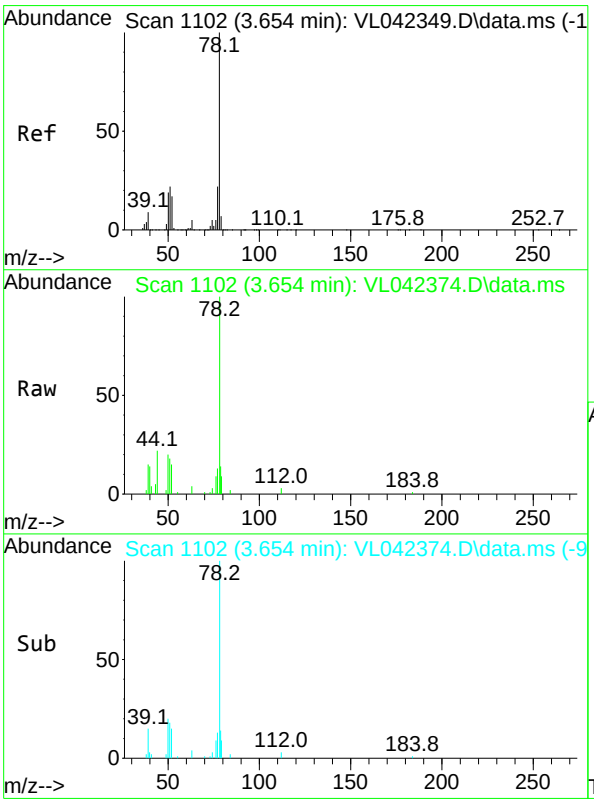
Ion	Ratio	Lower	Upper
43	100		
72	23.6	18.2	27.2



Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025DL

Manual Integrations
APPROVED

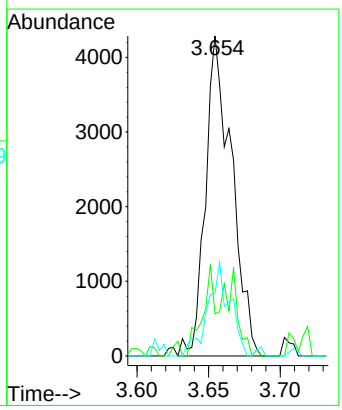
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

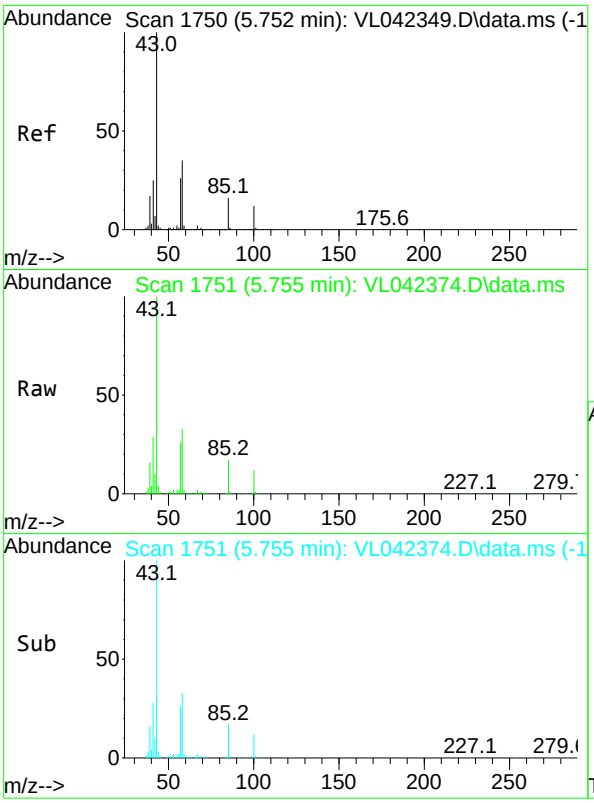


#36
Benzene
Concen: 0.172 ppbv m
RT: 3.654 min Scan# 1102
Delta R.T. 0.000 min
Lab File: VL042374.D
Acq: 18 Apr 2025 00:28

Tgt Ion: 78 Resp: 5447

Ion	Ratio	Lower	Upper
78	100		
77	13.2	17.4	26.0#
50	19.6	15.5	23.3

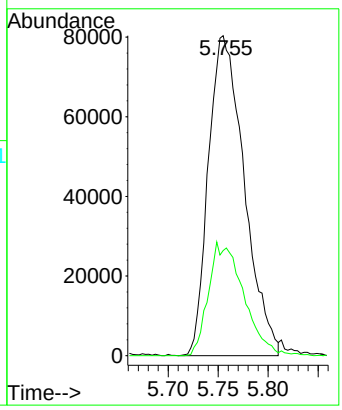




#50
4-Methyl-2-Pentanone
Concen: 5.180 ppbv
RT: 5.755 min Scan# 1
Delta R.T. 0.003 min
Lab File: VL042374.D
Acq: 18 Apr 2025 00:28

Tgt Ion: 43 Resp: 20023

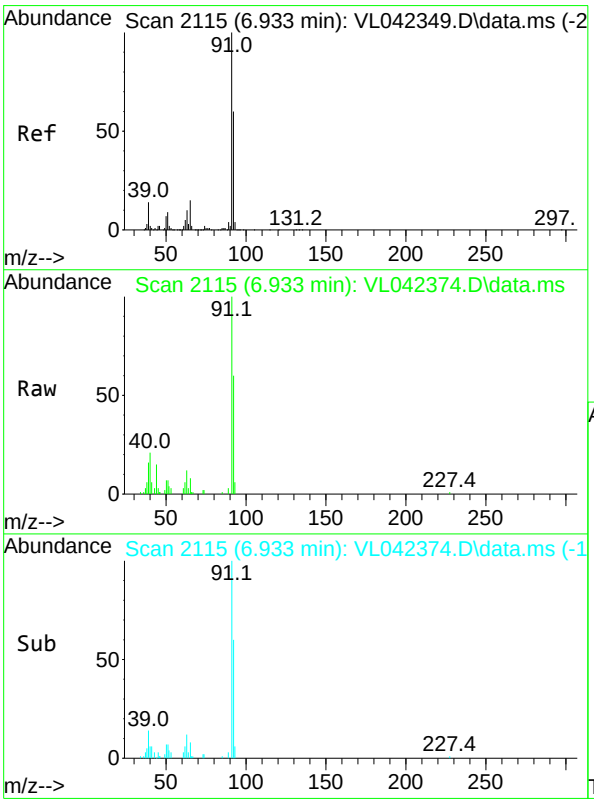
Ion	Ratio	Lower	Upper
43	100		
58	34.8	28.6	43.0



Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025DL

Manual Integrations
APPROVED

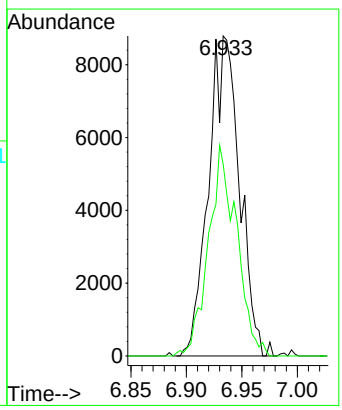
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

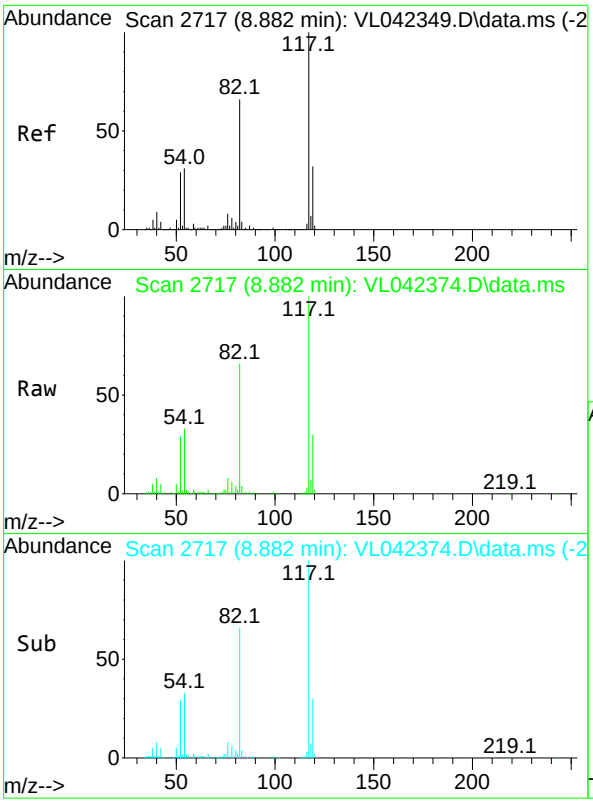


#53
Toluene
Concen: 0.450 ppbv m
RT: 6.933 min Scan# 2115
Delta R.T. 0.000 min
Lab File: VL042374.D
Acq: 18 Apr 2025 00:28

Tgt Ion: 91 Resp: 17117

Ion	Ratio	Lower	Upper
91	100		
92	59.7	48.2	72.4

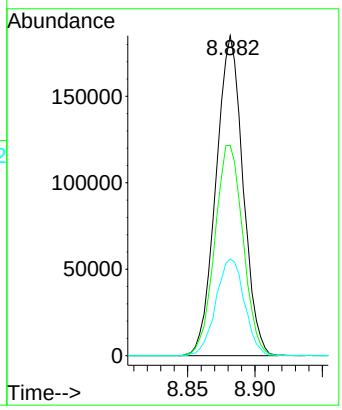




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.882 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042374.D
Acq: 18 Apr 2025 00:28

Tgt Ion:117 Resp: 25844

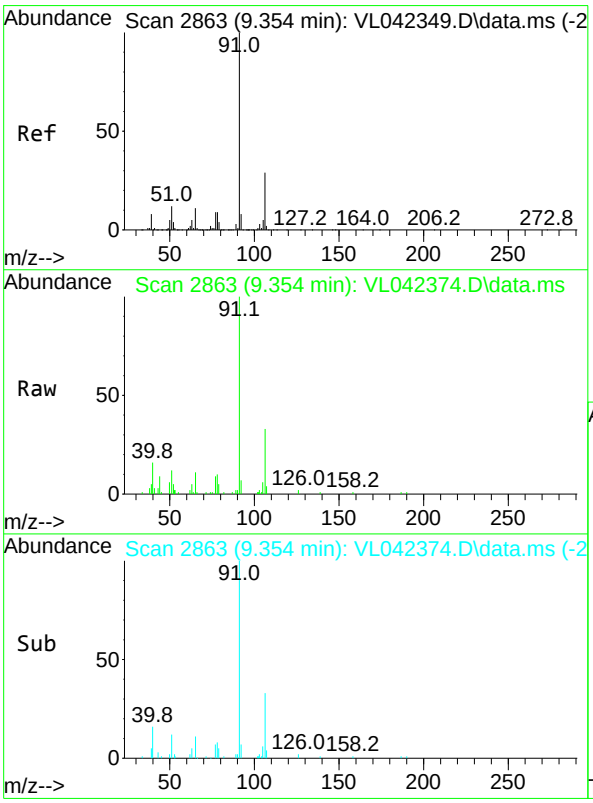
Ion	Ratio	Lower	Upper
117	100		
82	68.7	57.8	86.6
119	31.9	25.2	37.8



Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025DL

Manual Integrations
APPROVED

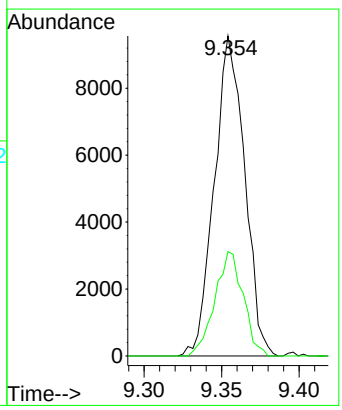
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

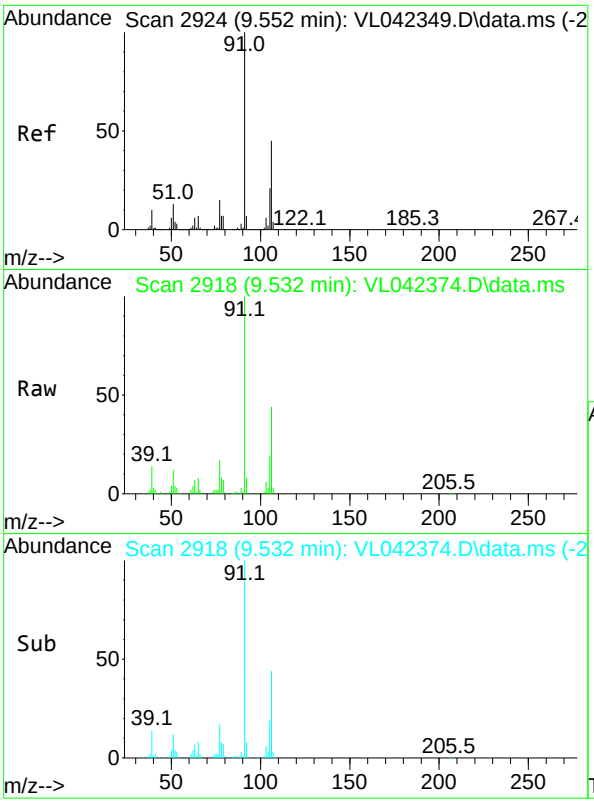


#58
Ethyl Benzene
Concen: 0.254 ppbv
RT: 9.354 min Scan# 2863
Delta R.T. 0.000 min
Lab File: VL042374.D
Acq: 18 Apr 2025 00:28

Tgt Ion: 91 Resp: 13008

Ion	Ratio	Lower	Upper
91	100		
106	32.6	23.0	34.4





#59
m/p-Xylene
Concen: 2.529 ppbv
RT: 9.532 min Scan# 2
Delta R.T. -0.019 min
Lab File: VL042374.D
Acq: 18 Apr 2025 00:28

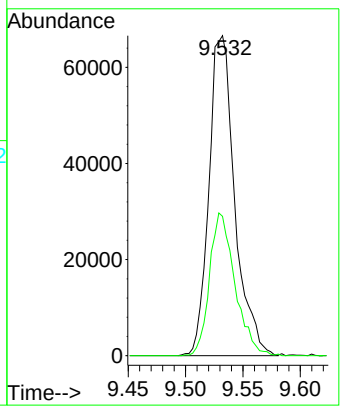
Tgt Ion: 91 Resp: 10433

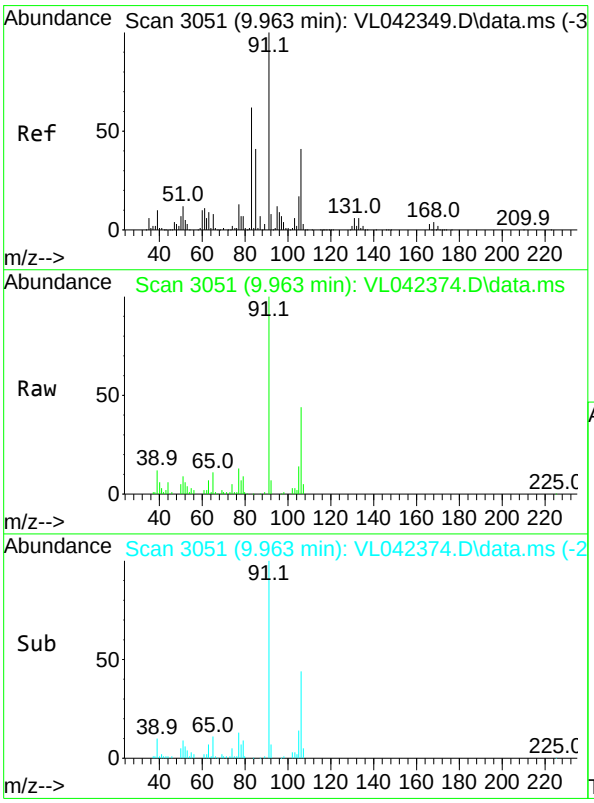
Ion	Ratio	Lower	Upper
91	100		
106	43.8	35.4	53.2

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025DL

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

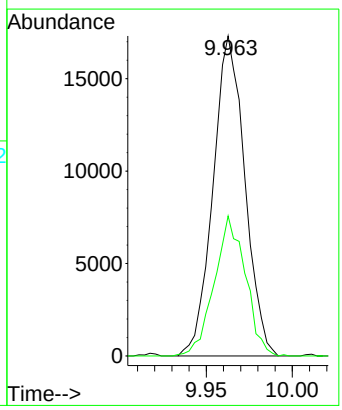


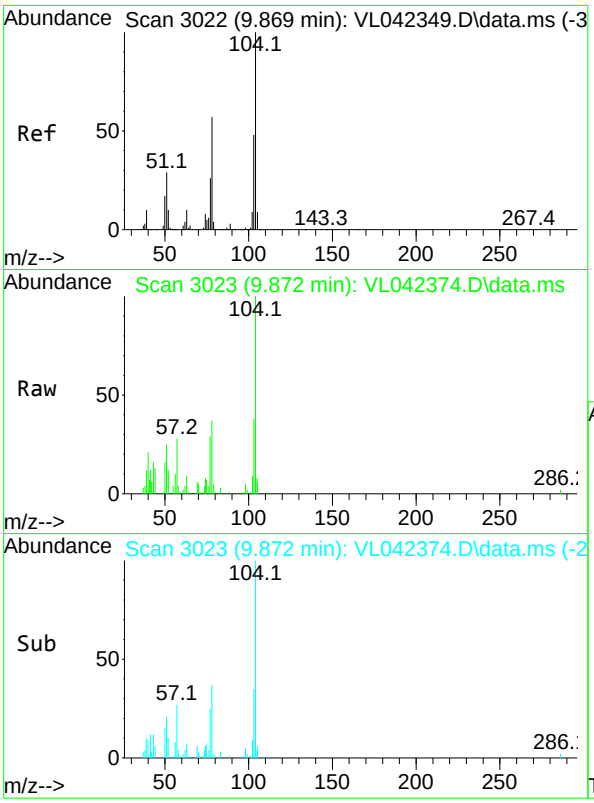


#60
o-Xylene
Concen: 0.536 ppbv
RT: 9.963 min Scan# 3051
Delta R.T. 0.000 min
Lab File: VL042374.D
Acq: 18 Apr 2025 00:28

Tgt Ion: 91 Resp: 22264

Ion	Ratio	Lower	Upper
91	100		
106	42.8	21.1	63.4

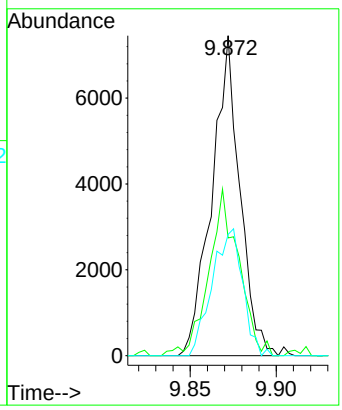




#61
Styrene
Concen: 0.427 ppbv
RT: 9.872 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042374.D
Acq: 18 Apr 2025 00:28

Tgt Ion:104 Resp: 846

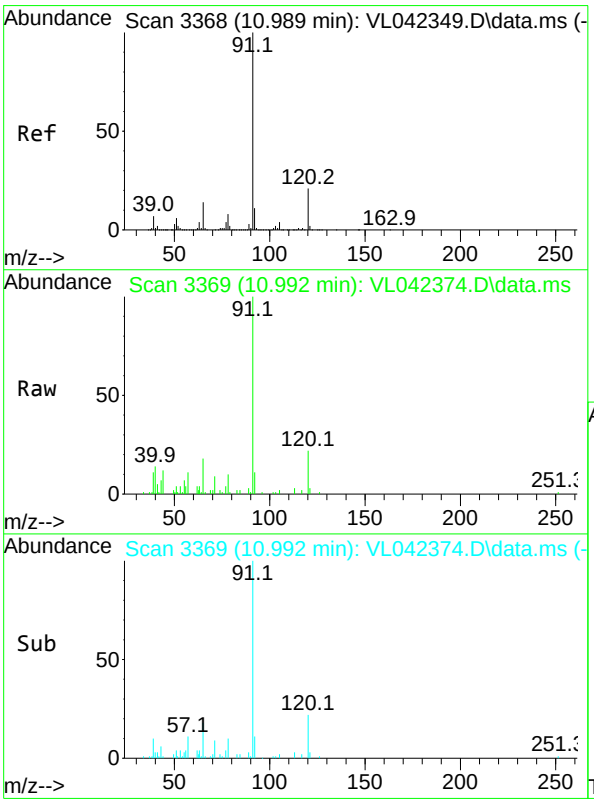
Ion	Ratio	Lower	Upper
104	100		
78	57.0	44.6	66.8
103	43.3	37.4	56.0



Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025DL

Manual Integrations
APPROVED

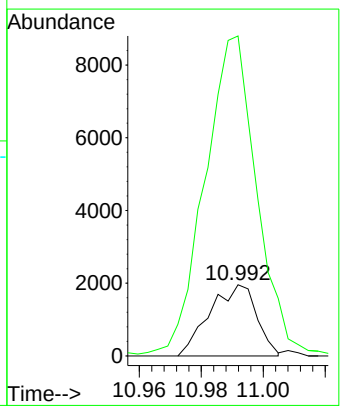
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

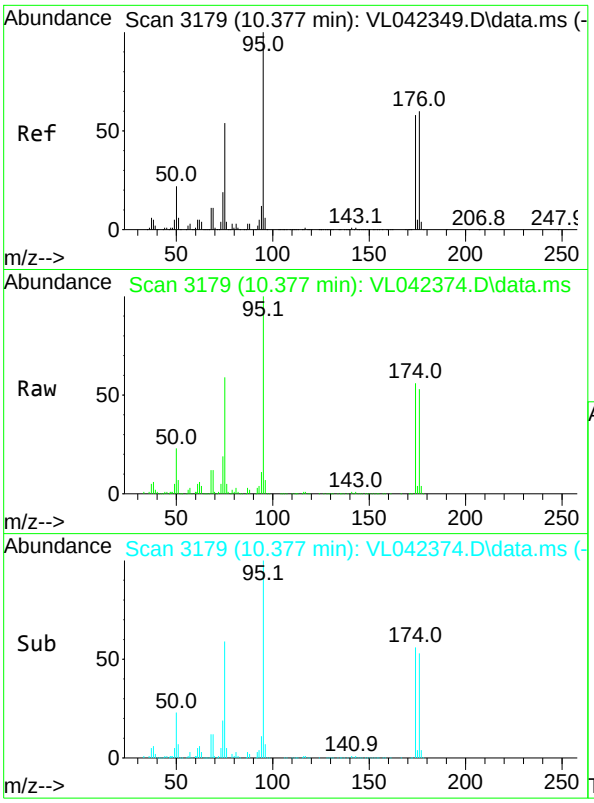


#64
n-propylbenzene
Concen: 0.135 ppbv
RT: 10.992 min Scan# 3369
Delta R.T. 0.003 min
Lab File: VL042374.D
Acq: 18 Apr 2025 00:28

Tgt Ion:120 Resp: 2068

Ion	Ratio	Lower	Upper
120	100		
91	513.7	392.4	588.6

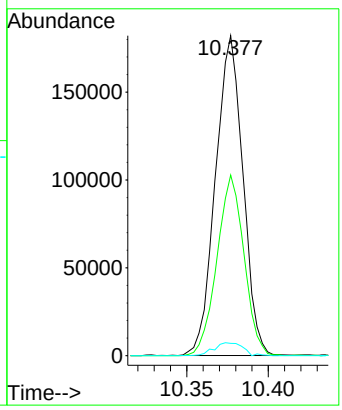




#68
1-Bromo-4-Fluorobenzene
Concen: 10.036 ppbv
RT: 10.377 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042374.D
Acq: 18 Apr 2025 00:28

Tgt Ion: 95 Resp: 21314

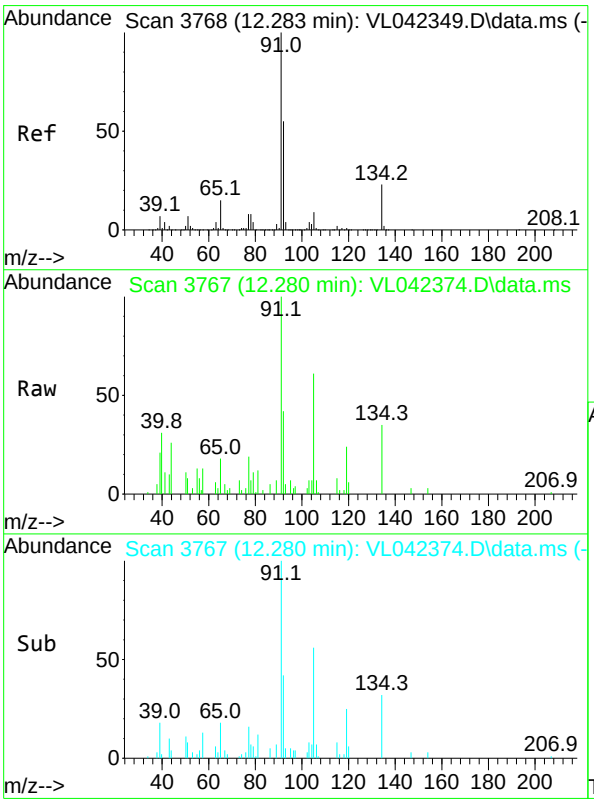
Ion	Ratio	Lower	Upper
95	100		
174	55.7	48.5	72.7
175	4.3	3.7	5.5



Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025DL

Manual Integrations
APPROVED

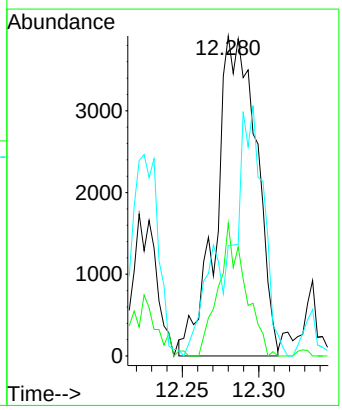
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

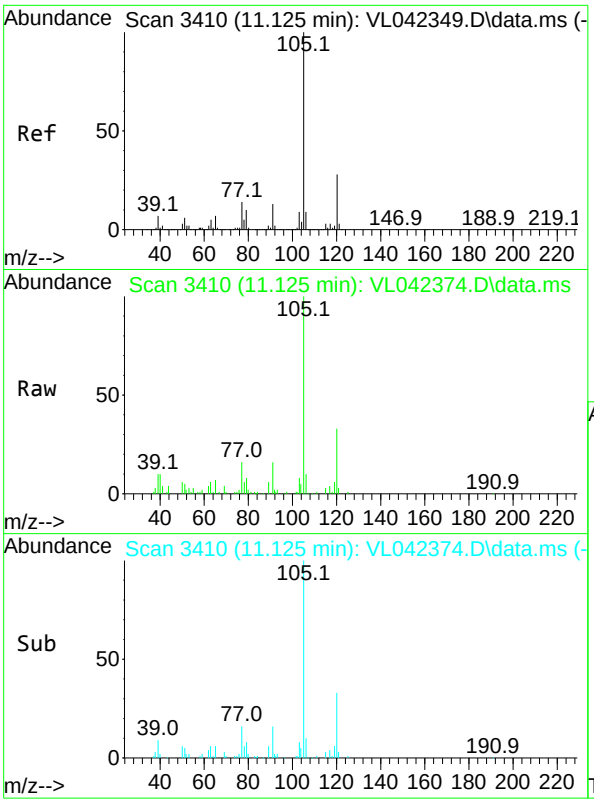


#70
n-Butylbenzene
Concen: 0.101 ppbv m
RT: 12.280 min Scan# 3767
Delta R.T. -0.003 min
Lab File: VL042374.D
Acq: 18 Apr 2025 00:28

Tgt Ion: 91 Resp: 7143

Ion	Ratio	Lower	Upper
91	100		
92	27.5	44.2	66.4#
134	73.6	18.2	27.4#

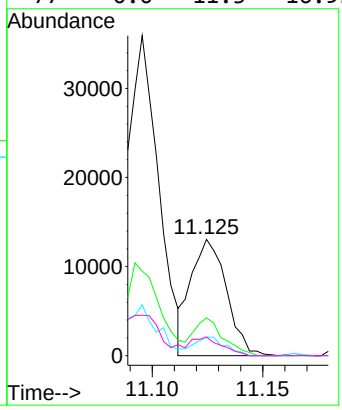




#72
4-Ethyltoluene
Concen: 0.289 ppbv
RT: 11.125 min Scan# 34
Delta R.T. 0.000 min
Lab File: VL042374.D
Acq: 18 Apr 2025 00:28

Tgt Ion:105 Resp: 1467

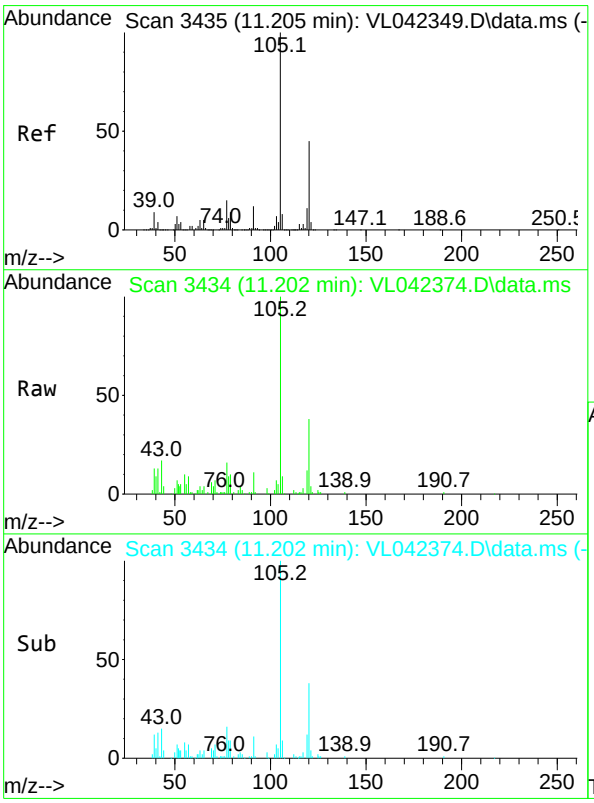
Ion	Ratio	Lower	Upper
105	100		
120	0.0	23.2	34.8#
91	0.0	10.4	15.6#
77	0.0	11.3	16.9#



Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025DL

Manual Integrations
APPROVED

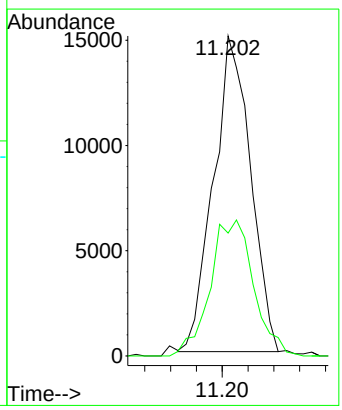
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

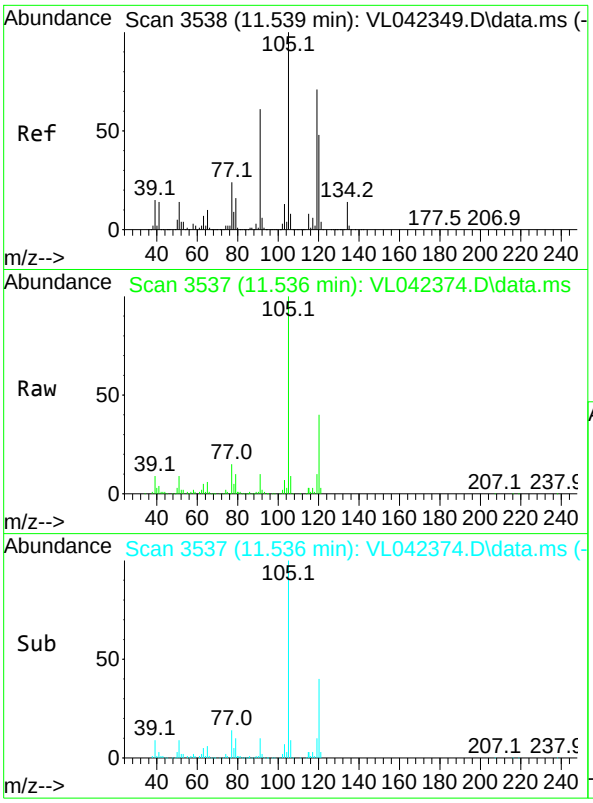


#73
1,3,5-Trimethylbenzene
Concen: 0.334 ppbv
RT: 11.202 min Scan# 3434
Delta R.T. -0.003 min
Lab File: VL042374.D
Acq: 18 Apr 2025 00:28

Tgt Ion:105 Resp: 14990

Ion	Ratio	Lower	Upper
105	100		
120	37.5	35.6	53.4

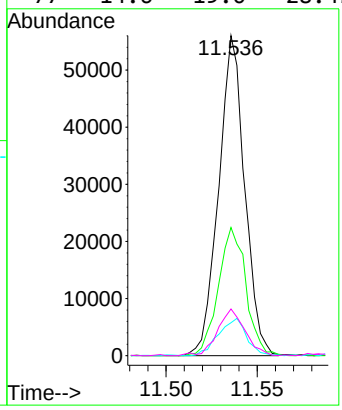




#74
1,2,4-Trimethylbenzene
Concen: 1.062 ppbv
RT: 11.536 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042374.D
Acq: 18 Apr 2025 00:28

Tgt Ion:105 Resp: 5562

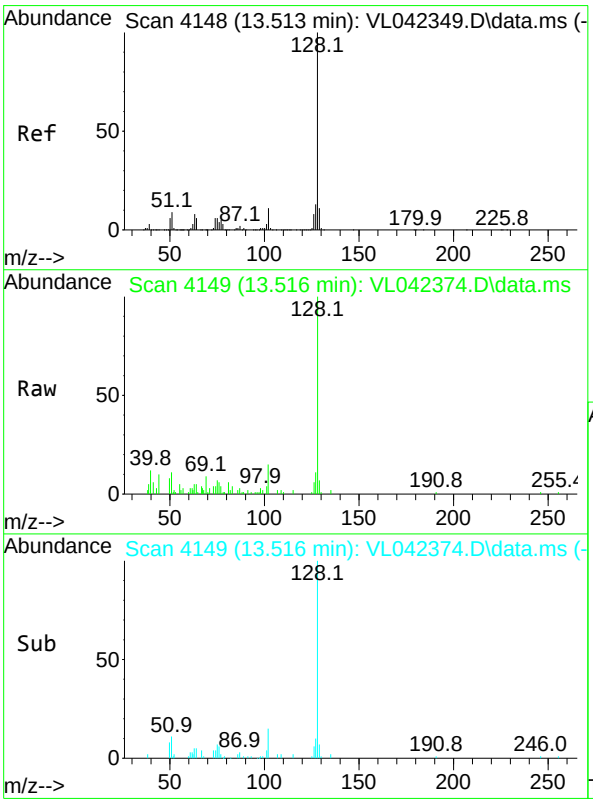
Ion	Ratio	Lower	Upper
105	100		
120	40.1	38.1	57.1
91	10.2	48.8	73.2#
77	14.6	19.0	28.4#



Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025DL

Manual Integrations
APPROVED

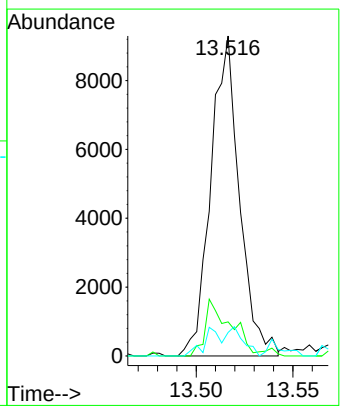
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#79
Naphthalene
Concen: 0.153 ppbv
RT: 13.516 min Scan# 4149
Delta R.T. 0.003 min
Lab File: VL042374.D
Acq: 18 Apr 2025 00:28

Tgt Ion:128 Resp: 9572

Ion	Ratio	Lower	Upper
128	100		
127	10.6	10.6	15.8
129	7.3	8.6	12.8#



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Fax : 908 789 8922

Report of Analysis

Client:	Woodard & Curran	Date Collected:	03/26/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	03/27/25
Client Sample ID:	IA-B1-2-3252025	SDG No.:	Q1668
Lab Sample ID:	Q1668-02	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042365.D	1		04/17/25 19:31	VL041725

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.44	2.18	J	1.04	2.47	ug/m3
74-87-3	Chloromethane	0.53	1.09		0.21	1.03	ug/m3
75-01-4	Vinyl Chloride	0.010	0.030	U	0.030	0.080	ug/m3
74-83-9	Bromomethane	0.14	0.54	U	0.54	1.94	ug/m3
75-00-3	Chloroethane	0.17	0.45	U	0.45	1.32	ug/m3
109-99-9	Tetrahydrofuran	0.13	0.38	U	0.38	1.47	ug/m3
75-69-4	Trichlorofluoromethane	0.22	1.24	J	0.90	2.81	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	0.16	1.23	U	1.23	3.83	ug/m3
76-14-2	Dichlorotetrafluoroethane	0.090	0.63	U	0.63	3.49	ug/m3
75-65-0	tert-Butyl alcohol	0.22	0.67	J	0.58	1.52	ug/m3
142-82-5	Heptane	1.30	5.33		0.45	2.05	ug/m3
75-35-4	1,1-Dichloroethene	0.14	0.56	U	0.56	1.98	ug/m3
67-64-1	Acetone	5.40	12.8		0.57	1.19	ug/m3
75-15-0	Carbon Disulfide	0.16	0.50	U	0.50	1.56	ug/m3
1634-04-4	Methyl tert-Butyl Ether	0.12	0.43	U	0.43	1.80	ug/m3
75-09-2	Methylene Chloride	1.40	4.86		0.66	1.74	ug/m3
156-60-5	trans-1,2-Dichloroethene	0.19	0.75	U	0.75	1.98	ug/m3
75-34-3	1,1-Dichloroethane	0.13	0.53	U	0.53	2.02	ug/m3
110-82-7	Cyclohexane	1.10	3.79		0.76	1.72	ug/m3
78-93-3	2-Butanone	0.58	1.71		0.35	1.47	ug/m3
56-23-5	Carbon Tetrachloride	0.070	0.44		0.060	0.19	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.090	0.36	U	0.36	1.98	ug/m3
67-66-3	Chloroform	0.080	0.39	U	0.39	2.44	ug/m3
71-55-6	1,1,1-Trichloroethane	0.010	0.050	U	0.050	0.16	ug/m3
540-84-1	2,2,4-Trimethylpentane	0.22	1.03	J	0.47	2.34	ug/m3
71-43-2	Benzene	0.52	1.66		0.29	1.60	ug/m3
107-06-2	1,2-Dichloroethane	0.090	0.36	U	0.36	2.02	ug/m3
79-01-6	Trichloroethene	0.020	0.11	U	0.11	0.16	ug/m3
78-87-5	1,2-Dichloropropane	0.11	0.51	U	0.51	2.31	ug/m3
75-27-4	Bromodichloromethane	0.080	0.54	U	0.54	3.35	ug/m3
108-10-1	4-Methyl-2-Pentanone	11.7	48.0		0.37	2.05	ug/m3
108-88-3	Toluene	1.40	5.28		0.41	1.88	ug/m3
10061-02-6	t-1,3-Dichloropropene	0.060	0.27	U	0.27	2.27	ug/m3
10061-01-5	cis-1,3-Dichloropropene	0.060	0.27	U	0.27	2.27	ug/m3
79-00-5	1,1,2-Trichloroethane	0.070	0.38	U	0.38	2.73	ug/m3

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Fax : 908 789 8922

Report of Analysis

Client:	Woodard & Curran	Date Collected:	03/26/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	03/27/25
Client Sample ID:	IA-B1-2-3252025	SDG No.:	Q1668
Lab Sample ID:	Q1668-02	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042365.D	1		04/17/25 19:31	VL041725

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	0.070	0.60	U	0.60	4.26	ug/m3
106-93-4	1,2-Dibromoethane	0.070	0.54	U	0.54	0.77	ug/m3
127-18-4	Tetrachloroethene	0.030	0.20		0.14	0.20	ug/m3
108-90-7	Chlorobenzene	0.080	0.37	U	0.37	2.30	ug/m3
100-41-4	Ethyl Benzene	0.95	4.13		0.52	2.17	ug/m3
179601-23-1	m/p-Xylene	5.90	25.6		0.91	4.34	ug/m3
95-47-6	o-Xylene	2.30	9.99		0.52	2.17	ug/m3
100-42-5	Styrene	0.47	2.00	J	0.47	2.13	ug/m3
75-25-2	Bromoform	0.060	0.62	U	0.62	5.17	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	0.010	0.070	U	0.070	0.21	ug/m3
95-49-8	2-Chlorotoluene	0.11	0.57	U	0.57	2.59	ug/m3
108-67-8	1,3,5-Trimethylbenzene	1.80	8.85		0.54	2.46	ug/m3
95-63-6	1,2,4-Trimethylbenzene	5.40	26.6		0.39	2.46	ug/m3
541-73-1	1,3-Dichlorobenzene	0.080	0.48	U	0.48	3.01	ug/m3
106-46-7	1,4-Dichlorobenzene	0.050	0.30	U	0.30	3.01	ug/m3
95-50-1	1,2-Dichlorobenzene	0.080	0.48	U	0.48	3.01	ug/m3
120-82-1	1,2,4-Trichlorobenzene	0.090	0.67	U	0.67	3.71	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	0.090	0.96	U	0.96	5.33	ug/m3
106-99-0	1,3-Butadiene	0.13	0.29	U	0.29	1.11	ug/m3
91-20-3	Naphthalene	0.47	2.46		0.42	0.52	ug/m3
622-96-8	4-Ethyltoluene	1.30	6.39		0.59	2.46	ug/m3
110-54-3	Hexane	2.70	9.52		0.39	1.76	ug/m3
107-05-1	Allyl Chloride	0.15	0.47	U	0.47	1.57	ug/m3
123-91-1	1,4-Dioxane	0.21	0.76	U	0.76	1.80	ug/m3
80-62-6	Methyl Methacrylate	0.090	0.37	U	0.37	2.05	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	9.90			70 (65) - 130 (135)	99%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	121000		2.787			
540-36-3	1,4-Difluorobenzene	339000		3.959			
3114-55-4	Chlorobenzene-d5	302000		8.879			
TENTITIVE IDENTIFIED COMPOUNDS							
75-45-6	Chlorodifluoromethane	0.26		J		1.48	ppbv
115-07-1	Propene	0.64		J		1.49	ppbv
64-17-5	Ethanol	140		J		1.72	ppbv

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Fax : 908 789 8922

Report of Analysis

Client:	Woodard & Curran	Date Collected:	03/26/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	03/27/25
Client Sample ID:	IA-B1-2-3252025	SDG No.:	Q1668
Lab Sample ID:	Q1668-02	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042365.D	1		04/17/25 19:31	VL041725

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
67-63-0	Isopropyl Alcohol	3.60		J		1.88	ppbv
000589-34-4	Hexane, 3-methyl-	3.10		J		4.27	ppbv
98-82-8	Isopropylbenzene	0.15		J		10.5	ppbv
103-65-1	n-propylbenzene	0.63		J		11.0	ppbv
000124-18-5	Decane	3.80		J		11.8	ppbv
104-51-8	n-Butylbenzene	0.54		J		12.3	ppbv
000934-80-5	Benzene, 4-ethyl-1,2-dimethyl-	3.50		J		12.6	ppbv
001120-21-4	Undecane	2.90		J		12.8	ppbv
003454-07-7	Benzene, 1-ethenyl-4-ethyl-	2.60		J		13.2	ppbv
000119-64-2	Naphthalene, 1,2,3,4-tetrahydro-	2.70		J		13.3	ppbv
053172-84-2	Benzene, (1-methyl-1-butenyl)-	3.10		J		13.7	ppbv
000112-40-3	Dodecane	3.40		J		13.7	ppbv
002809-64-5	Naphthalene, 1,2,3,4-tetrahydro-5-	3.60		J		14.2	ppbv
91-57-6	Naphthalene,2-methyl-	0.59		J		14.5	ppbv
000629-50-5	Tridecane	3.40		J		14.5	ppbv

U = Not Detected
RL = Reporting Limit
MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Quantitation Report (LSC Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042365.D
Acq On : 17 Apr 2025 19:31
Operator : SY/MD
Sample : Q1668-02
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 18 02:41:43 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-2-3252025

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.787	49	121182	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.959	114	339124	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.879	117	302443	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.377	95	245115	9.863	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 98.600%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.496	85	9435	0.441	ppbv		98
3) Chlorodifluoromethane	1.476	51	5228m	0.256	ppbv		
4) Chloromethane	1.531	50	4486	0.529	ppbv		96
9) Propene	1.486	41	5899	0.635	ppbv		91
10) Heptane	4.972	43	33617m	1.289	ppbv		
11) Trichlorofluoromethane	1.878	101	4539m	0.223	ppbv		
13) Ethanol	1.719	45	204918	138.854	ppbv		75
15) Acetone	1.836	43	106421	5.365	ppbv		91
17) tert-Butyl alcohol	2.043	59	5385	0.219	ppbv	#	64
19) Isopropyl Alcohol	1.884	45	39284	3.565	ppbv	#	69
20) Methylene Chloride	2.062	84	10711	1.379	ppbv		95
26) Hexane	2.823	57	53574	2.707	ppbv	#	34
30) Cyclohexane	3.855	84	18328	1.145	ppbv		96
34) 2-Butanone	2.561	43	15661	0.584	ppbv		94
35) Carbon Tetrachloride	3.768	117	2276m	0.074	ppbv		
36) Benzene	3.655	78	18848m	0.515	ppbv		
44) 2,2,4-Trimethylpentane	4.635	57	14126m	0.224	ppbv		
50) 4-Methyl-2-Pentanone	5.746	43	520966	11.689	ppbv		98
52) Tetrachloroethene	8.225	164	470m	0.033	ppbv		
53) Toluene	6.930	91	61358	1.398	ppbv		98
58) Ethyl Benzene	9.354	91	56996	0.951	ppbv		97
59) m/p-Xylene	9.529	91	287156	5.949	ppbv		99
60) o-Xylene	9.960	91	110047	2.264	ppbv		100
61) Styrene	9.869	104	10782	0.465	ppbv		96
62) Isopropylbenzene	10.536	105	10773	0.151	ppbv		98
64) n-propylbenzene	10.989	120	11220	0.625	ppbv		96
70) n-Butylbenzene	12.287	91	44270m	0.536	ppbv		
72) 4-Ethyltoluene	11.125	105	77634	1.306	ppbv	#	56
73) 1,3,5-Trimethylbenzene	11.203	105	92546	1.764	ppbv		99
74) 1,2,4-Trimethylbenzene	11.536	105	330358	5.391	ppbv	#	64
79) Naphthalene	13.513	128	34564	0.472	ppbv		98
80) Naphthalene,2-methyl-	14.459	142	24628m	0.590	ppbv		

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

Quantitation Report (LSC Reviewed)

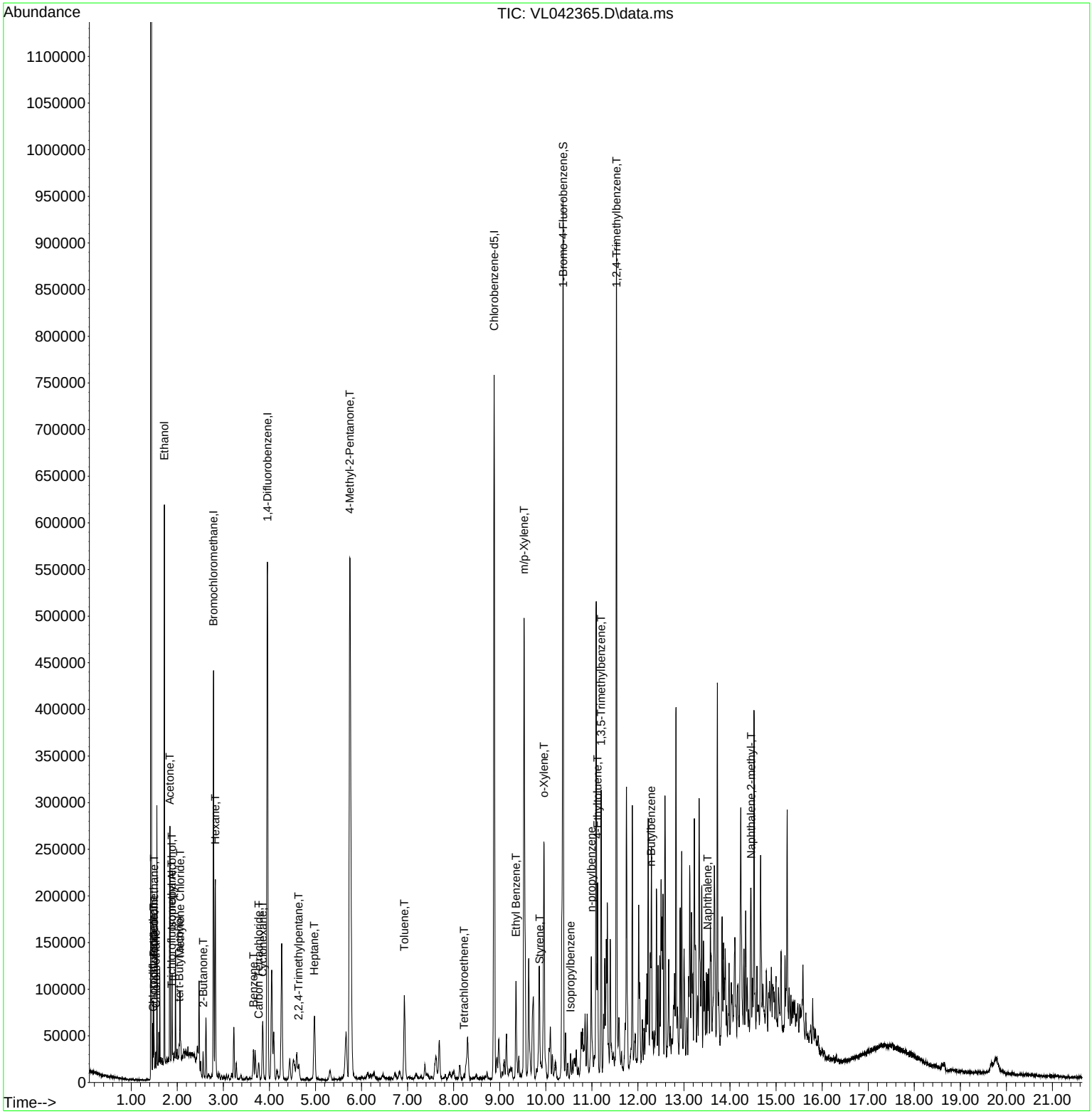
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042365.D
Acq On : 17 Apr 2025 19:31
Operator : SY/MD
Sample : Q1668-02
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

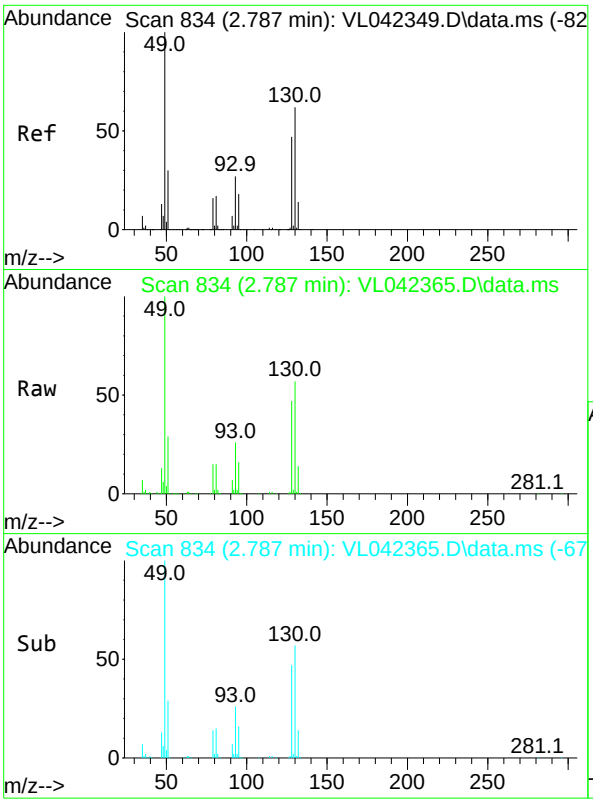
Quant Time: Apr 18 02:41:43 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-2-3252025

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

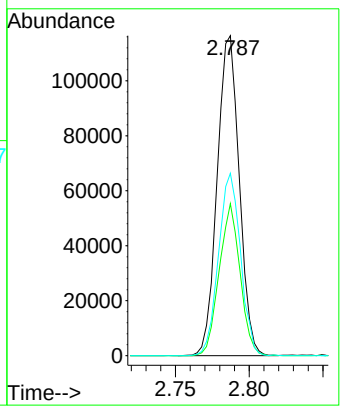




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 8
Delta R.T. 0.000 min
Lab File: VL042365.D
Acq: 17 Apr 2025 19:31

Tgt Ion: 49 Resp: 12118

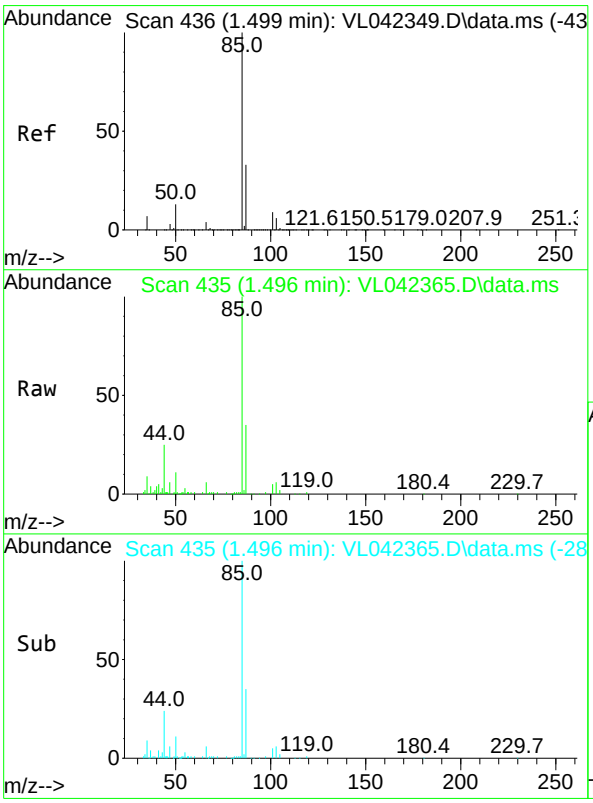
Ion	Ratio	Lower	Upper
49	100		
128	45.0	22.8	68.4
130	56.9	29.3	88.0



Instrument :
MSVOA_L
ClientSampleId :
IA-B1-2-3252025

Manual Integrations
APPROVED

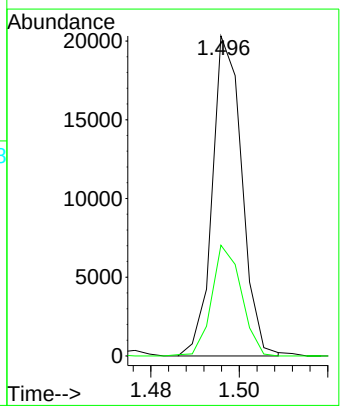
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

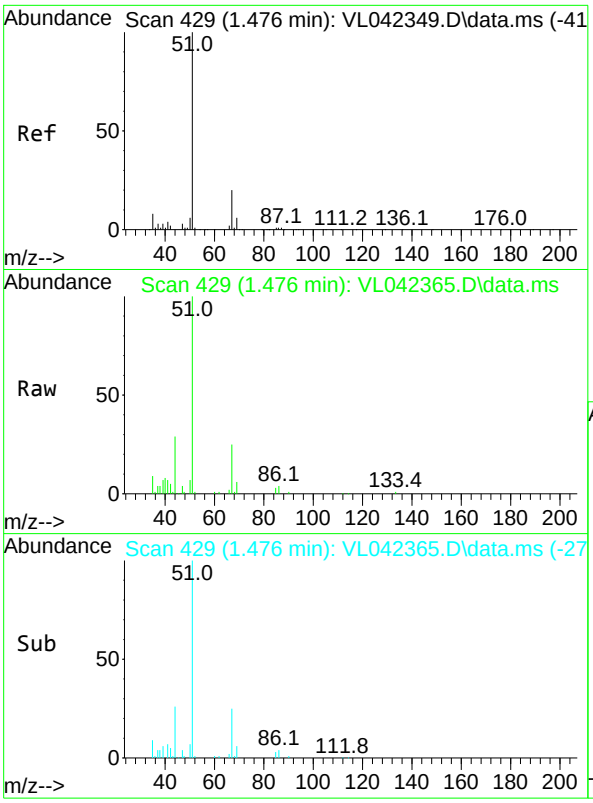


#2
Dichlorodifluoromethane
Concen: 0.441 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.003 min
Lab File: VL042365.D
Acq: 17 Apr 2025 19:31

Tgt Ion: 85 Resp: 9435

Ion	Ratio	Lower	Upper
85	100		
87	34.6	26.6	39.8

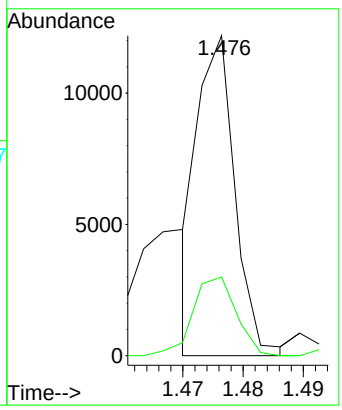




#3
Chlorodifluoromethane
Concen: 0.256 ppbv m
RT: 1.476 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042365.D
Acq: 17 Apr 2025 19:31

Tgt Ion: 51 Resp: 522

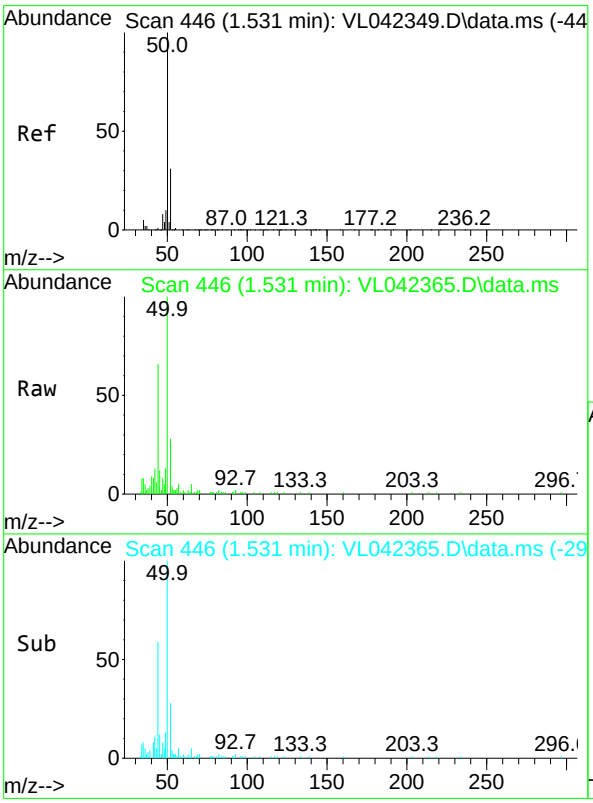
Ion	Ratio	Lower	Upper
51	100		
67	39.0	16.2	24.4



Instrument :
MSVOA_L
ClientSampleId :
IA-B1-2-3252025

Manual Integrations
APPROVED

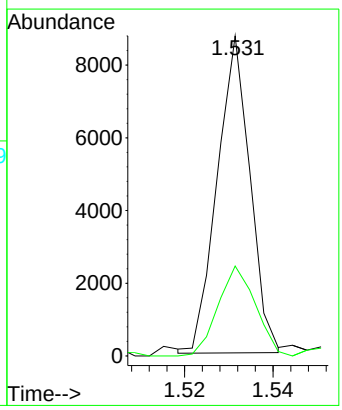
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

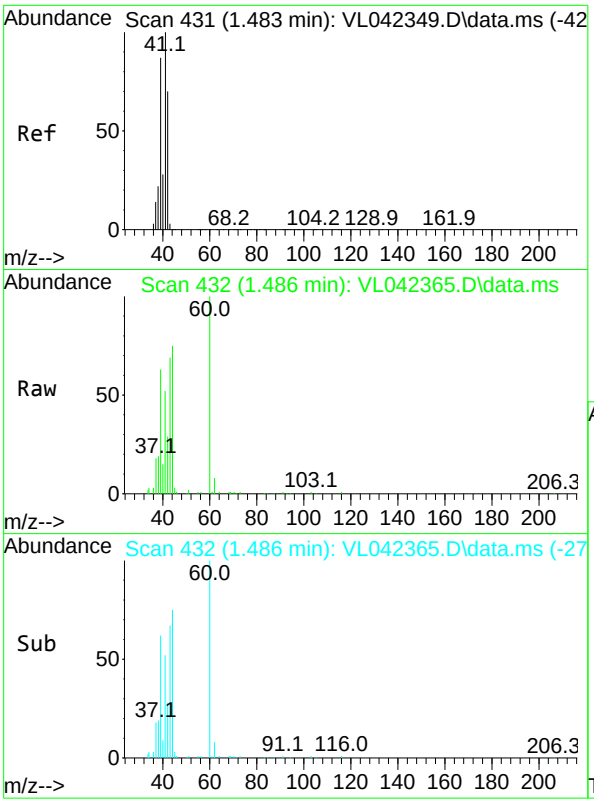


#4
Chloromethane
Concen: 0.529 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL042365.D
Acq: 17 Apr 2025 19:31

Tgt Ion: 50 Resp: 4486

Ion	Ratio	Lower	Upper
50	100		
52	28.7	24.7	37.1

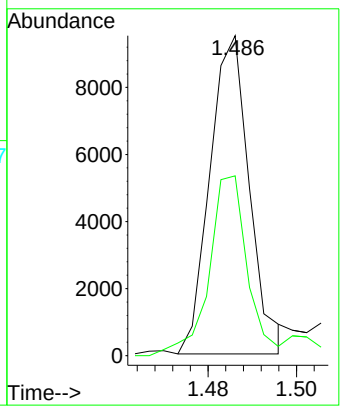




#9
Propene
Concen: 0.635 ppbv
RT: 1.486 min Scan# 4
Delta R.T. 0.004 min
Lab File: VL042365.D
Acq: 17 Apr 2025 19:31

Tgt Ion: 41 Resp: 589

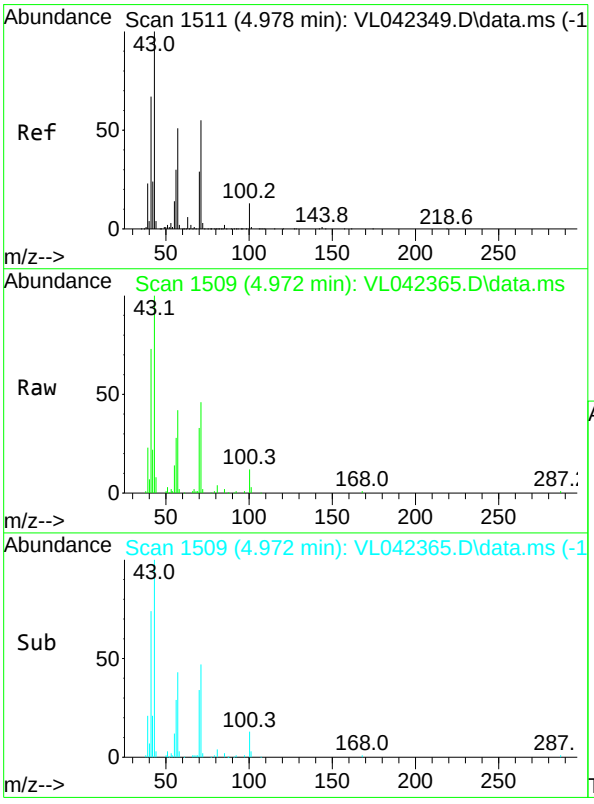
Ion	Ratio	Lower	Upper
41	100		
42	62.7	56.2	84.4



Instrument :
MSVOA_L
ClientSampleId :
IA-B1-2-3252025

Manual Integrations
APPROVED

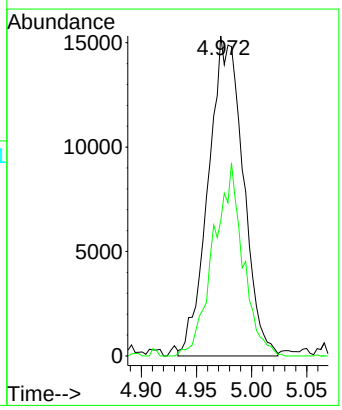
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

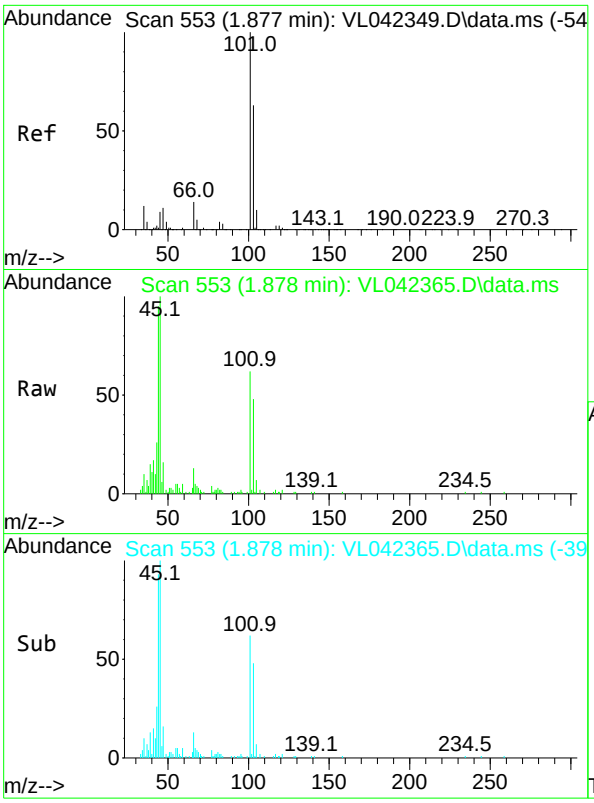


#10
Heptane
Concen: 1.289 ppbv m
RT: 4.972 min Scan# 1509
Delta R.T. -0.006 min
Lab File: VL042365.D
Acq: 17 Apr 2025 19:31

Tgt Ion: 43 Resp: 33617

Ion	Ratio	Lower	Upper
43	100		
57	51.2	39.9	59.9

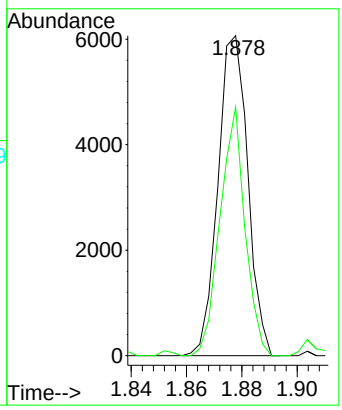




#11
Trichlorofluoromethane
Concen: 0.223 ppbv m
RT: 1.878 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL042365.D
Acq: 17 Apr 2025 19:31

Tgt Ion:101 Resp: 453

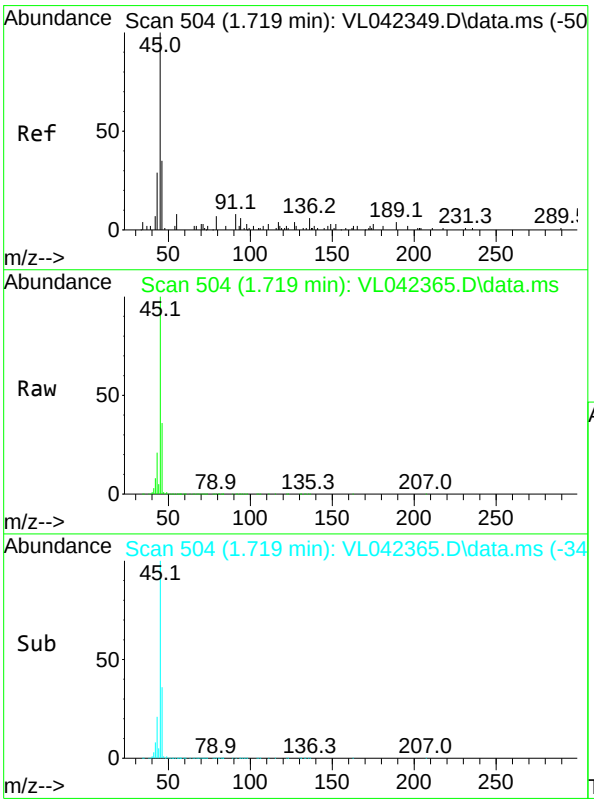
Ion	Ratio	Lower	Upper
101	100		
103	77.7	50.1	75.1



Instrument :
MSVOA_L
ClientSampleId :
IA-B1-2-3252025

Manual Integrations
APPROVED

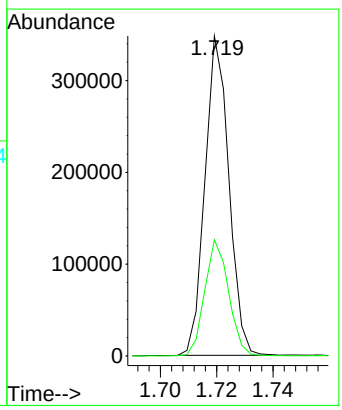
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

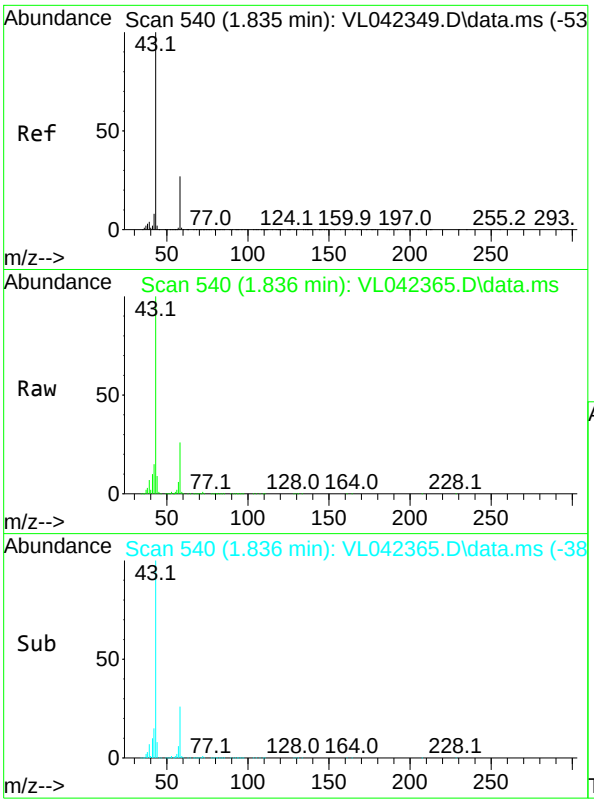


#13
Ethanol
Concen: 138.854 ppbv
RT: 1.719 min Scan# 504
Delta R.T. 0.000 min
Lab File: VL042365.D
Acq: 17 Apr 2025 19:31

Tgt Ion: 45 Resp: 204918

Ion	Ratio	Lower	Upper
45	100		
46	36.7	21.9	87.7

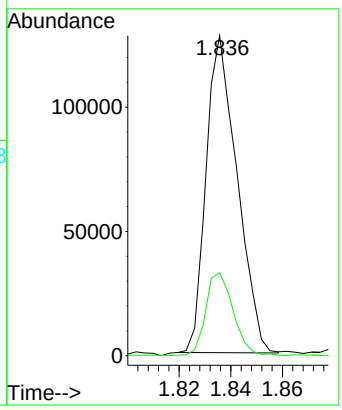




#15
Acetone
Concen: 5.365 ppbv
RT: 1.836 min Scan# 54
Delta R.T. 0.000 min
Lab File: VL042365.D
Acq: 17 Apr 2025 19:31

Tgt Ion: 43 Resp: 10642

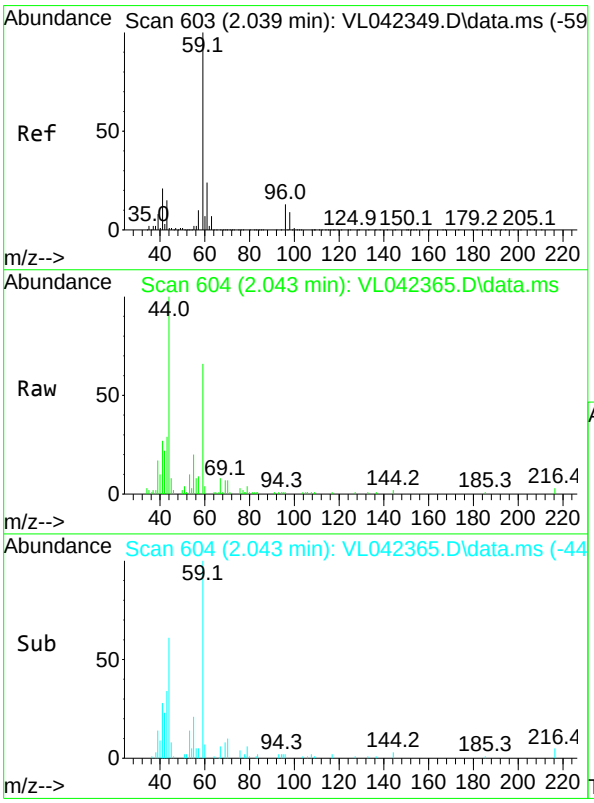
Ion	Ratio	Lower	Upper
43	100		
58	23.2	22.4	33.6



Instrument :
MSVOA_L
ClientSampleId :
IA-B1-2-3252025

Manual Integrations
APPROVED

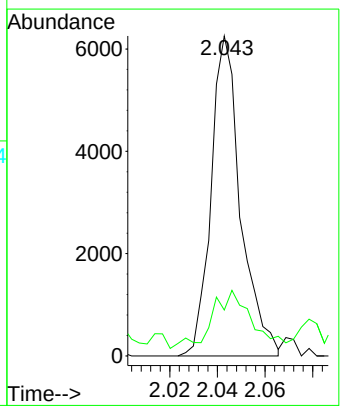
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

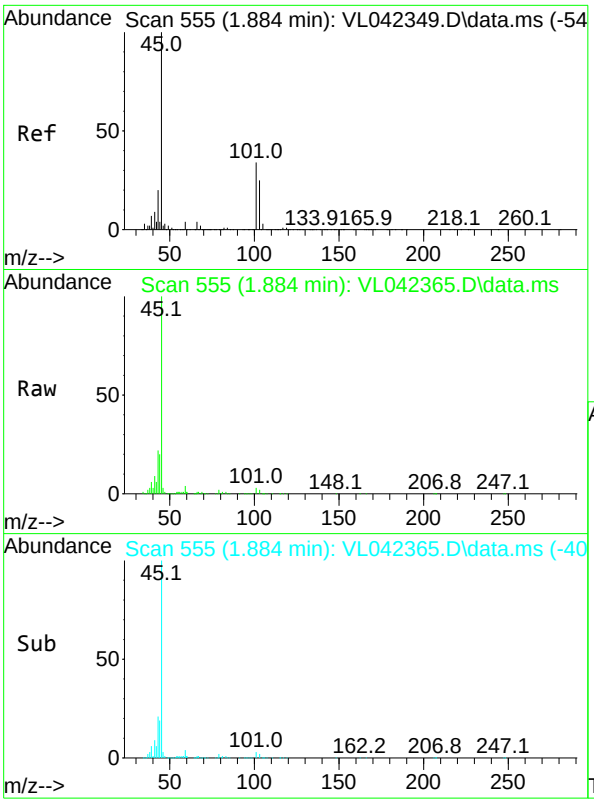


#17
tert-Butyl alcohol
Concen: 0.219 ppbv
RT: 2.043 min Scan# 604
Delta R.T. 0.004 min
Lab File: VL042365.D
Acq: 17 Apr 2025 19:31

Tgt Ion: 59 Resp: 5385

Ion	Ratio	Lower	Upper
59	100		
57	24.5	8.7	13.1#





#19
Isopropyl Alcohol
Concen: 3.565 ppbv
RT: 1.884 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL042365.D
Acq: 17 Apr 2025 19:31

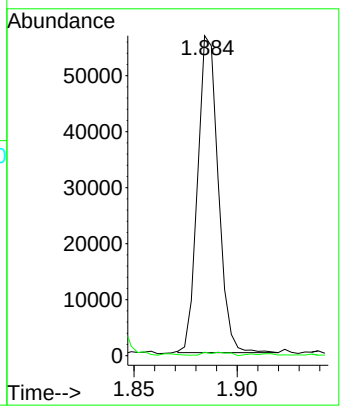
Tgt Ion: 45 Resp: 3928

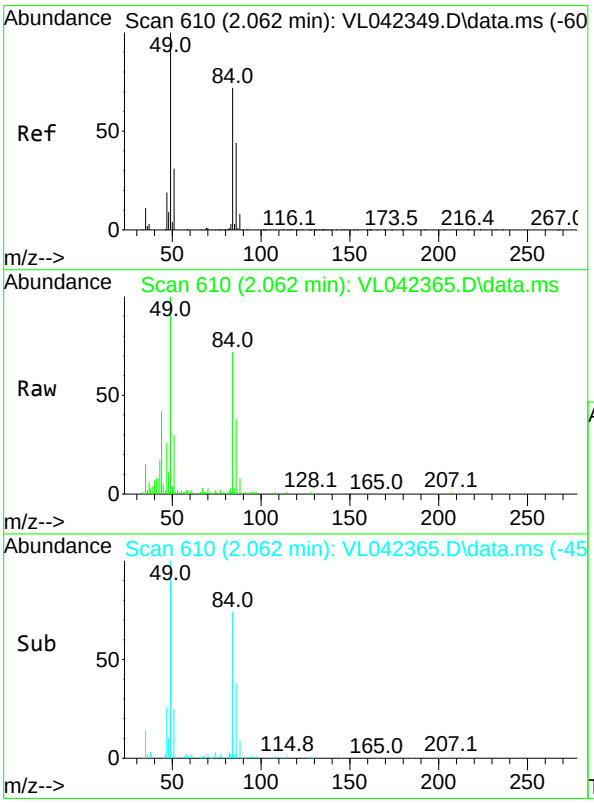
Ion	Ratio	Lower	Upper
45	100		
58	62.9	34.5	51.7

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-2-3252025

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

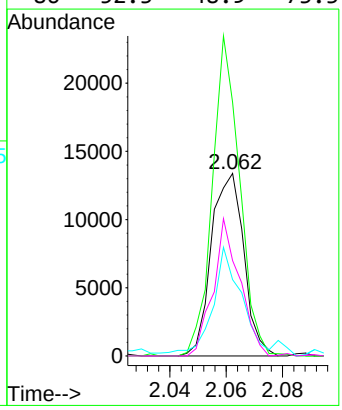


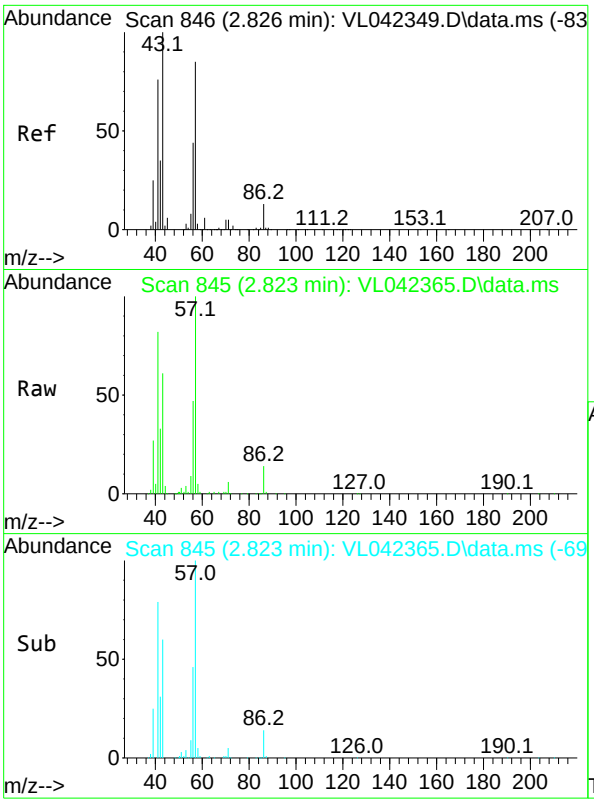


#20
Methylene Chloride
Concen: 1.379 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.000 min
Lab File: VL042365.D
Acq: 17 Apr 2025 19:31

Tgt Ion: 84 Resp: 10711

Ion	Ratio	Lower	Upper
84	100		
49	138.9	111.6	167.4
51	38.0	35.1	52.7
86	52.3	48.9	73.3

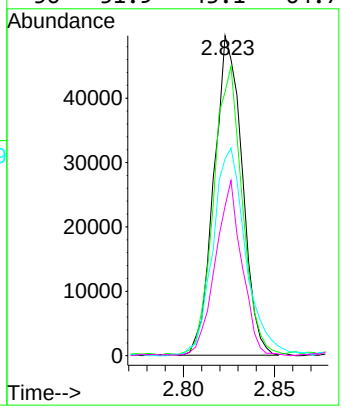




#26
Hexane
Concen: 2.707 ppbv
RT: 2.823 min Scan# 84
Delta R.T. -0.003 min
Lab File: VL042365.D
Acq: 17 Apr 2025 19:31

Tgt Ion: 57 Resp: 5357

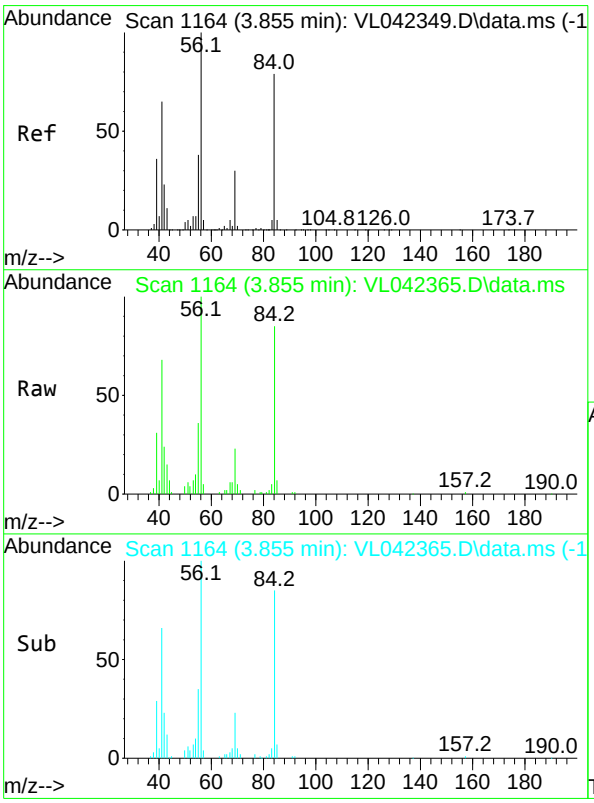
Ion	Ratio	Lower	Upper
57	100		
41	92.2	77.9	116.9
43	78.1	208.4	312.6
56	51.9	43.1	64.7



Instrument :
MSVOA_L
ClientSampleId :
IA-B1-2-3252025

Manual Integrations
APPROVED

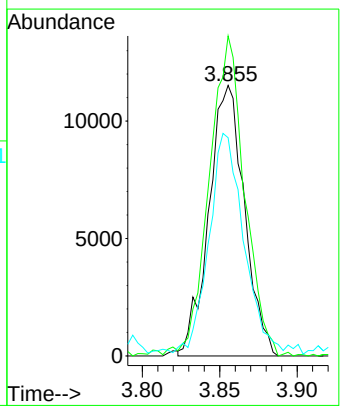
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

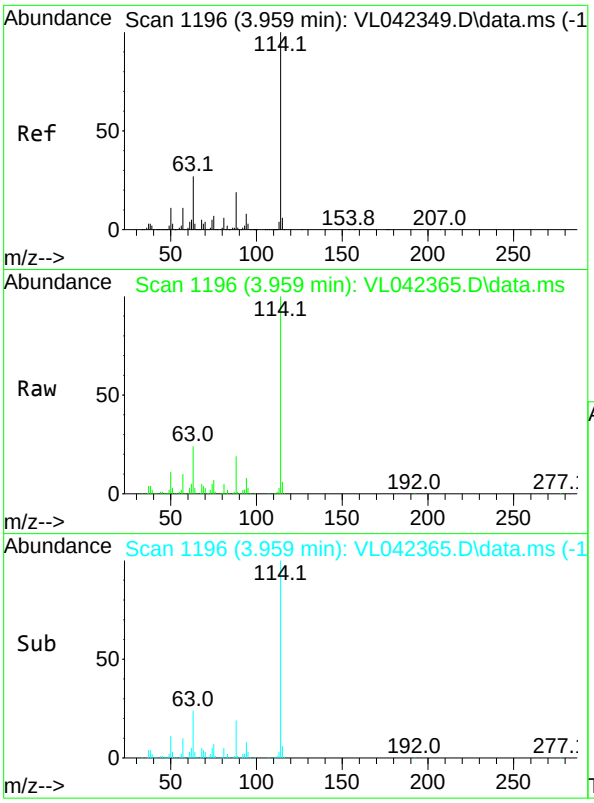


#30
Cyclohexane
Concen: 1.145 ppbv
RT: 3.855 min Scan# 1164
Delta R.T. 0.000 min
Lab File: VL042365.D
Acq: 17 Apr 2025 19:31

Tgt Ion: 84 Resp: 18328

Ion	Ratio	Lower	Upper
84	100		
56	119.0	101.0	151.4
41	83.7	67.4	101.0

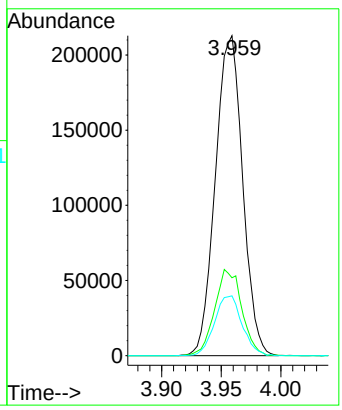




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.959 min Scan# 1
Delta R.T. 0.000 min
Lab File: VL042365.D
Acq: 17 Apr 2025 19:31

Tgt Ion:114 Resp: 33912

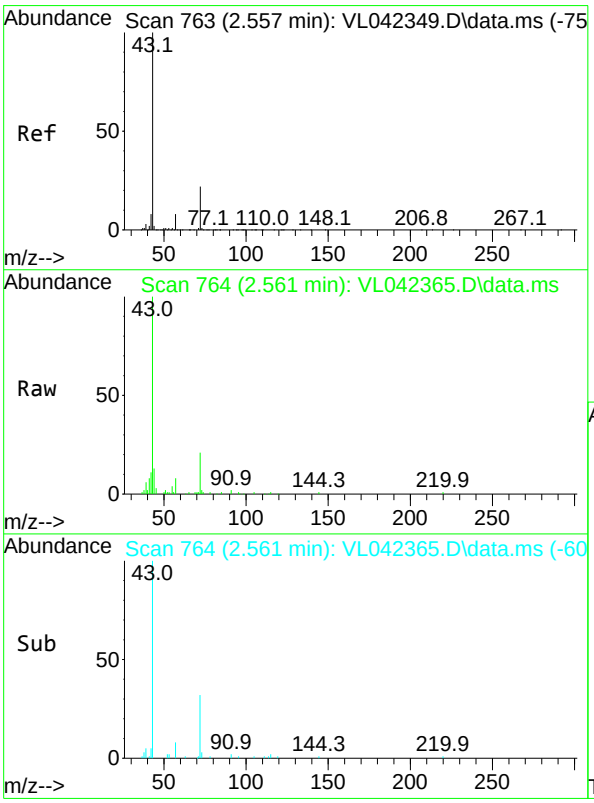
Ion	Ratio	Lower	Upper
114	100		
63	26.8	21.8	32.6
88	18.9	15.5	23.3



Instrument :
MSVOA_L
ClientSampleId :
IA-B1-2-3252025

Manual Integrations
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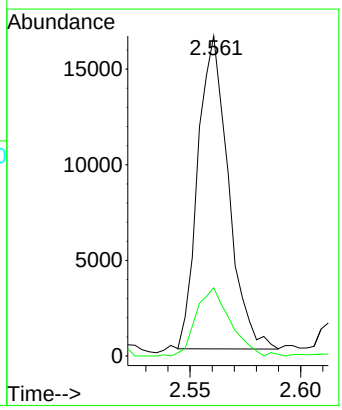
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

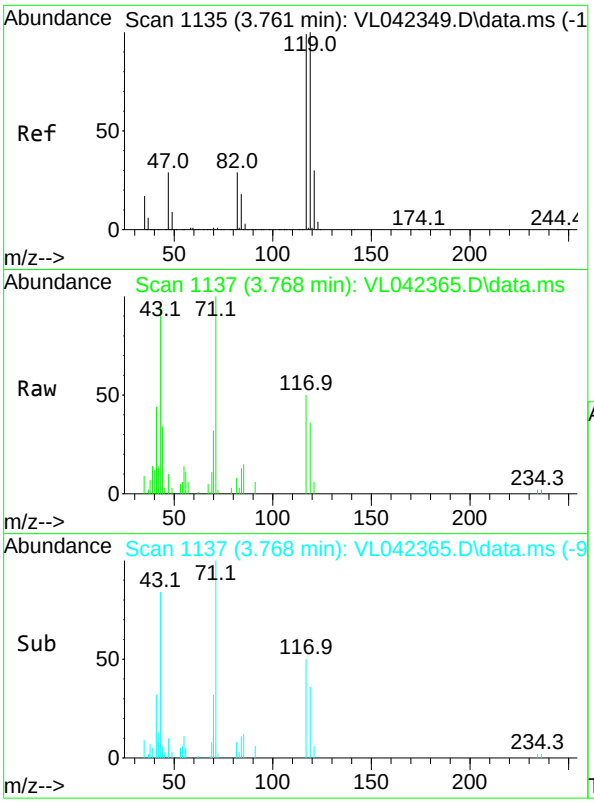


#34
2-Butanone
Concen: 0.584 ppbv
RT: 2.561 min Scan# 764
Delta R.T. 0.004 min
Lab File: VL042365.D
Acq: 17 Apr 2025 19:31

Tgt Ion: 43 Resp: 15661

Ion	Ratio	Lower	Upper
43	100		
72	25.5	18.2	27.2

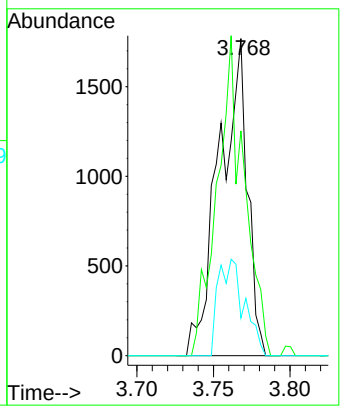




#35
Carbon Tetrachloride
Concen: 0.074 ppbv m
RT: 3.768 min Scan# 1
Delta R.T. 0.007 min
Lab File: VL042365.D
Acq: 17 Apr 2025 19:31

Tgt Ion:117 Resp: 227

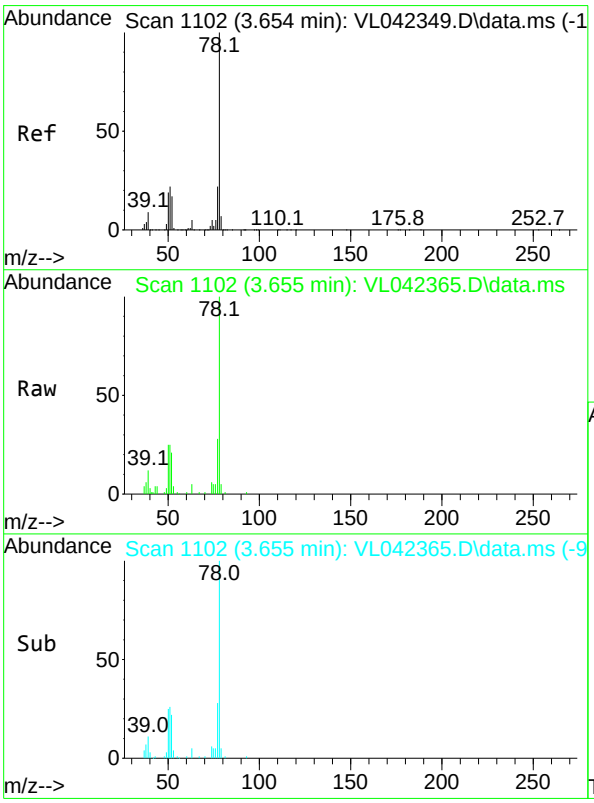
Ion	Ratio	Lower	Upper
117	100		
119	70.9	80.5	120.7#
121	11.8	24.2	36.2#



Instrument :
MSVOA_L
ClientSampleId :
IA-B1-2-3252025

Manual Integrations
APPROVED

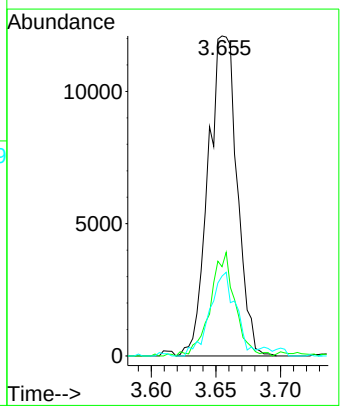
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

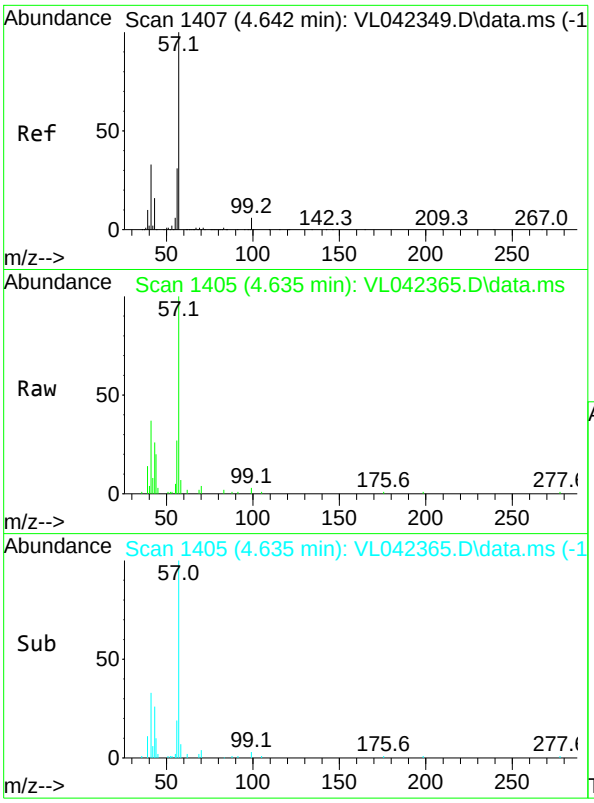


#36
Benzene
Concen: 0.515 ppbv m
RT: 3.655 min Scan# 1102
Delta R.T. 0.000 min
Lab File: VL042365.D
Acq: 17 Apr 2025 19:31

Tgt Ion: 78 Resp: 18848

Ion	Ratio	Lower	Upper
78	100		
77	27.9	17.4	26.0#
50	25.0	15.5	23.3#

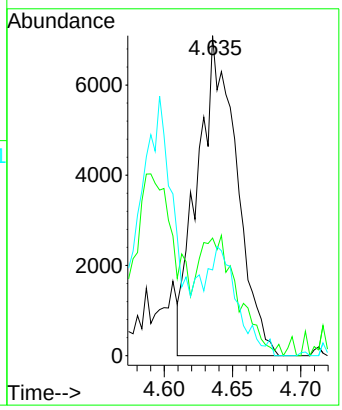




#44
2,2,4-Trimethylpentane
Concen: 0.224 ppbv m
RT: 4.635 min Scan# 14
Delta R.T. -0.006 min
Lab File: VL042365.D
Acq: 17 Apr 2025 19:31

Tgt Ion: 57 Resp: 1412

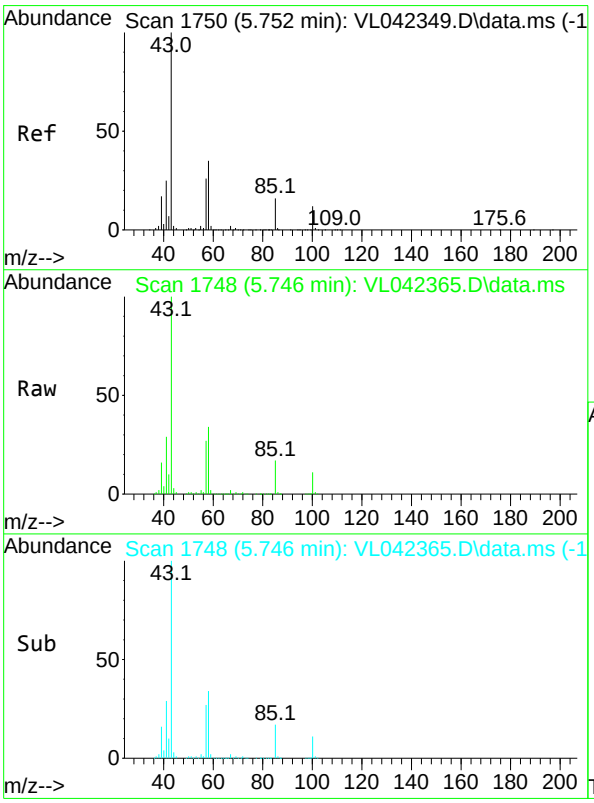
Ion	Ratio	Lower	Upper
57	100		
41	38.1	27.2	40.8
56	31.5	25.7	38.5



Instrument :
MSVOA_L
ClientSampleId :
IA-B1-2-3252025

Manual Integrations
APPROVED

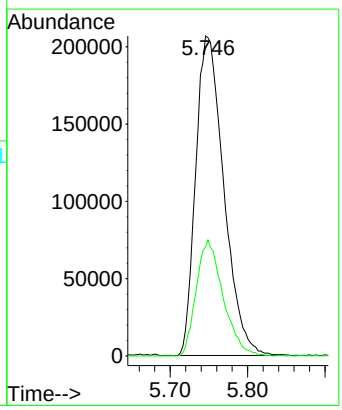
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

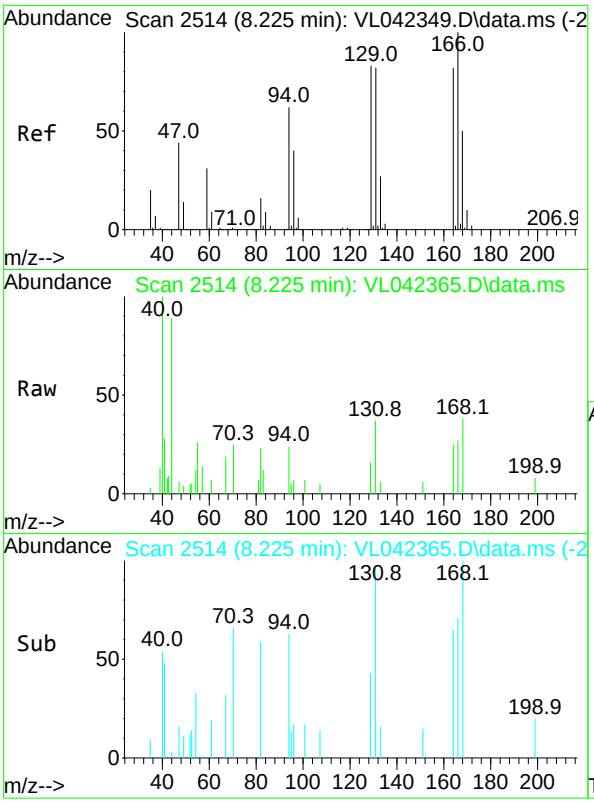


#50
4-Methyl-2-Pentanone
Concen: 11.689 ppbv
RT: 5.746 min Scan# 1748
Delta R.T. -0.006 min
Lab File: VL042365.D
Acq: 17 Apr 2025 19:31

Tgt Ion: 43 Resp: 520966

Ion	Ratio	Lower	Upper
43	100		
58	34.7	28.6	43.0

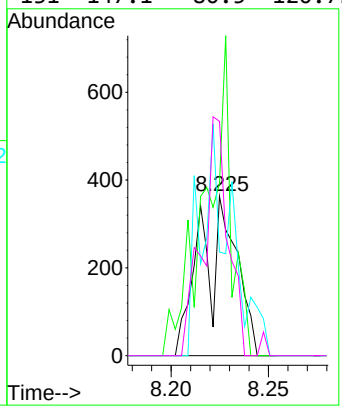




#52
Tetrachloroethene
Concen: 0.033 ppbv m
RT: 8.225 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042365.D
Acq: 17 Apr 2025 19:31

Tgt Ion:164 Resp: 47

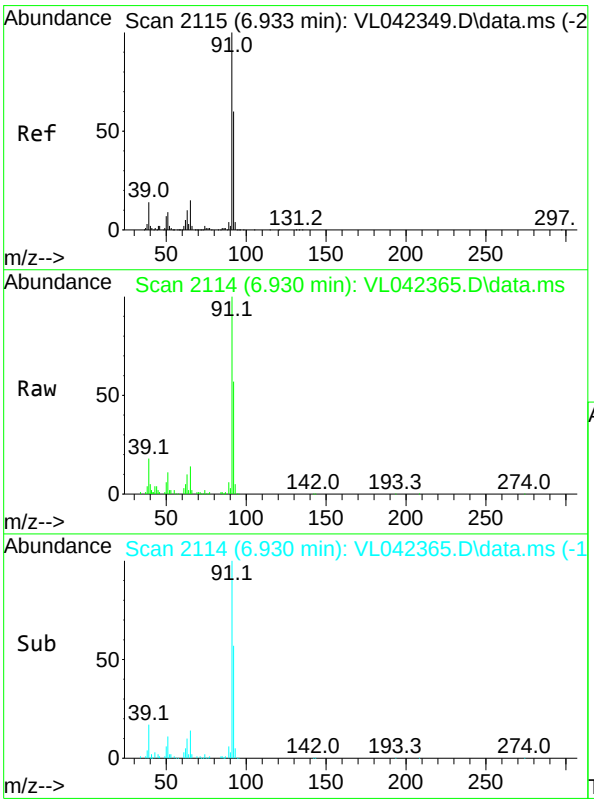
Ion	Ratio	Lower	Upper
164	100		
166	108.0	98.2	147.2
129	65.0	81.8	122.8#
131	147.1	80.5	120.7#



Instrument :
MSVOA_L
ClientSampleId :
IA-B1-2-3252025

Manual Integrations
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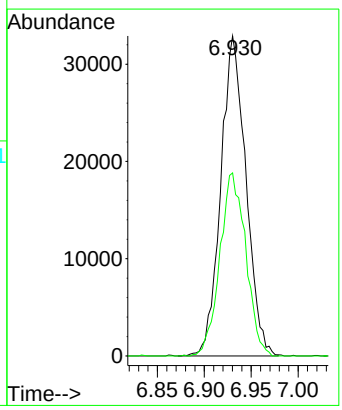
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

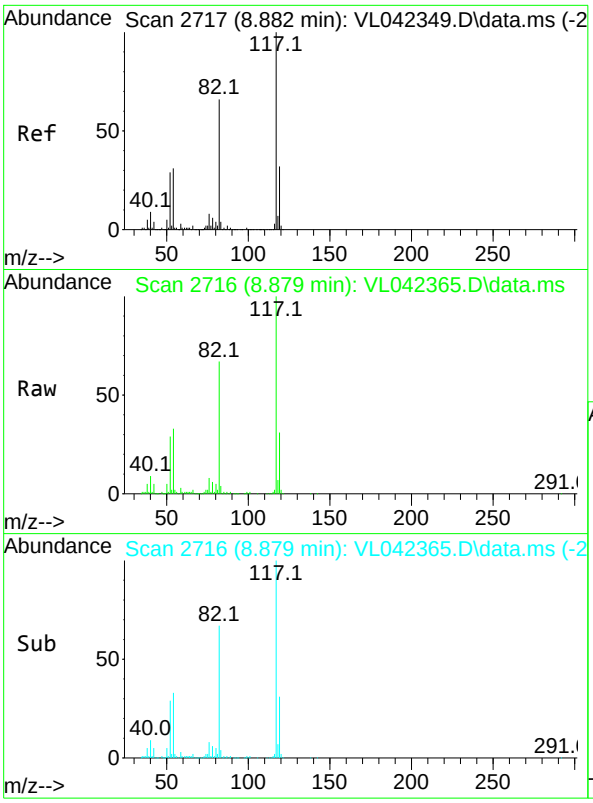


#53
Toluene
Concen: 1.398 ppbv
RT: 6.930 min Scan# 2114
Delta R.T. -0.003 min
Lab File: VL042365.D
Acq: 17 Apr 2025 19:31

Tgt Ion: 91 Resp: 61358

Ion	Ratio	Lower	Upper
91	100		
92	58.9	48.2	72.4

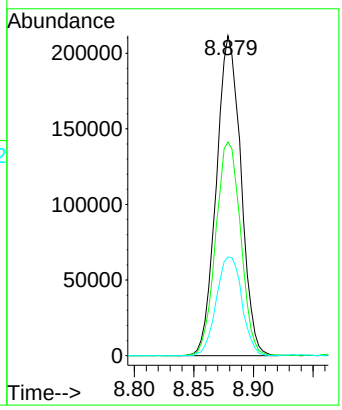




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.879 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL042365.D
Acq: 17 Apr 2025 19:31

Tgt Ion:117 Resp: 30244

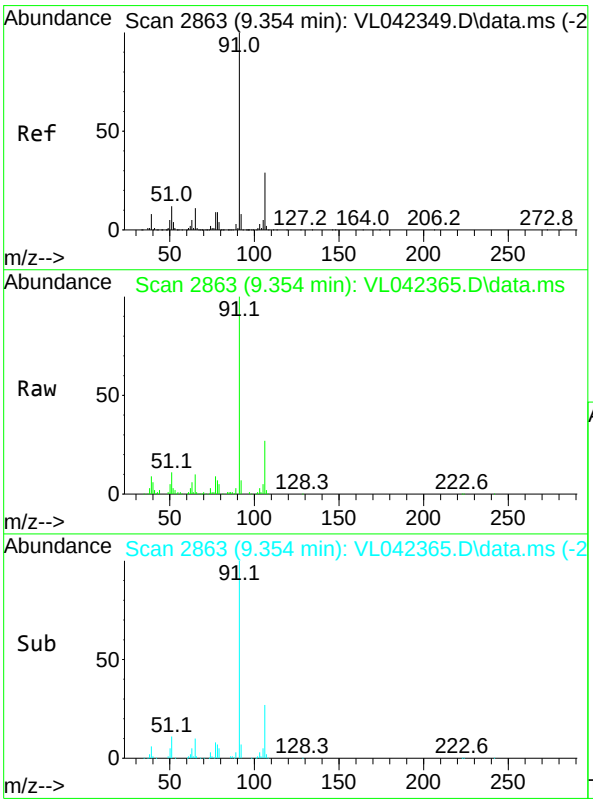
Ion	Ratio	Lower	Upper
117	100		
82	67.9	57.8	86.6
119	32.1	25.2	37.8



Instrument :
MSVOA_L
ClientSampleId :
IA-B1-2-3252025

Manual Integrations
APPROVED

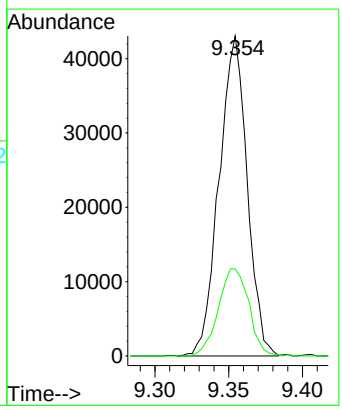
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

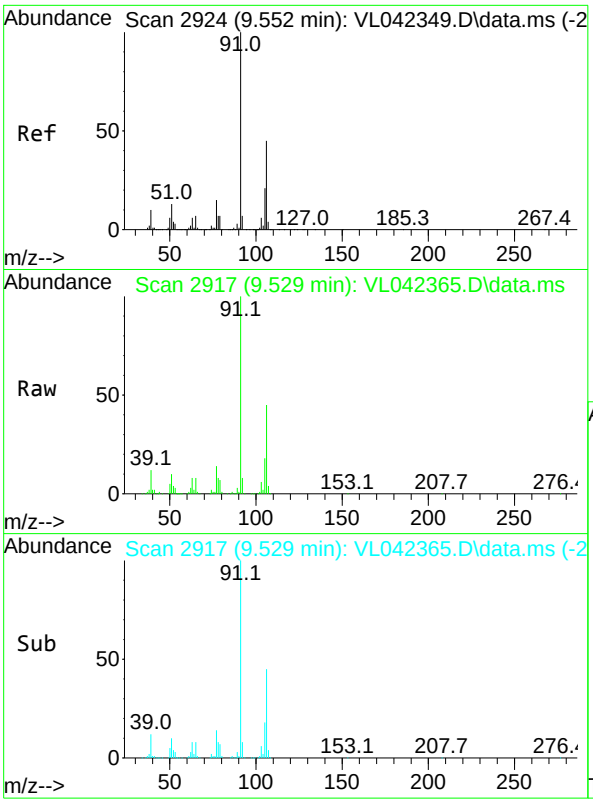


#58
Ethyl Benzene
Concen: 0.951 ppbv
RT: 9.354 min Scan# 2863
Delta R.T. 0.000 min
Lab File: VL042365.D
Acq: 17 Apr 2025 19:31

Tgt Ion: 91 Resp: 56996

Ion	Ratio	Lower	Upper
91	100		
106	27.2	23.0	34.4

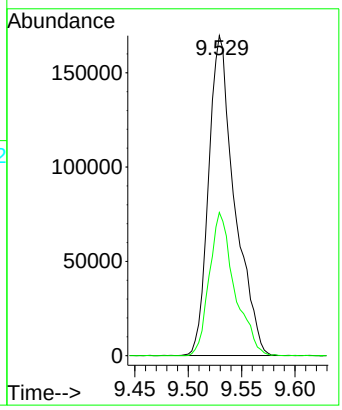




#59
m/p-Xylene
Concen: 5.949 ppbv
RT: 9.529 min Scan# 2
Delta R.T. -0.022 min
Lab File: VL042365.D
Acq: 17 Apr 2025 19:31

Tgt Ion: 91 Resp: 28715

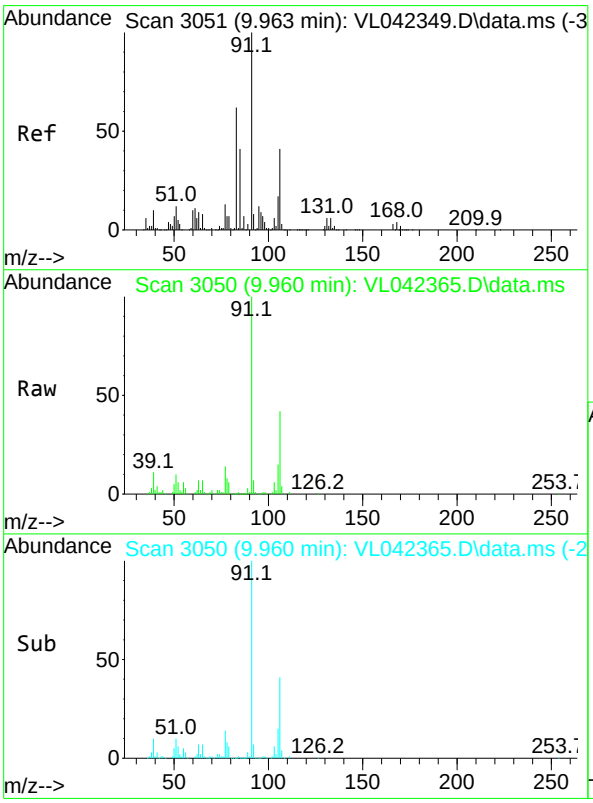
Ion	Ratio	Lower	Upper
91	100		
106	43.5	35.4	53.2



Instrument :
MSVOA_L
ClientSampleId :
IA-B1-2-3252025

Manual Integrations
APPROVED

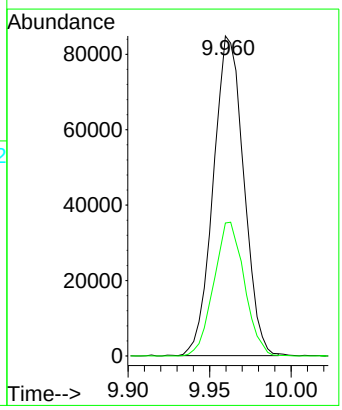
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

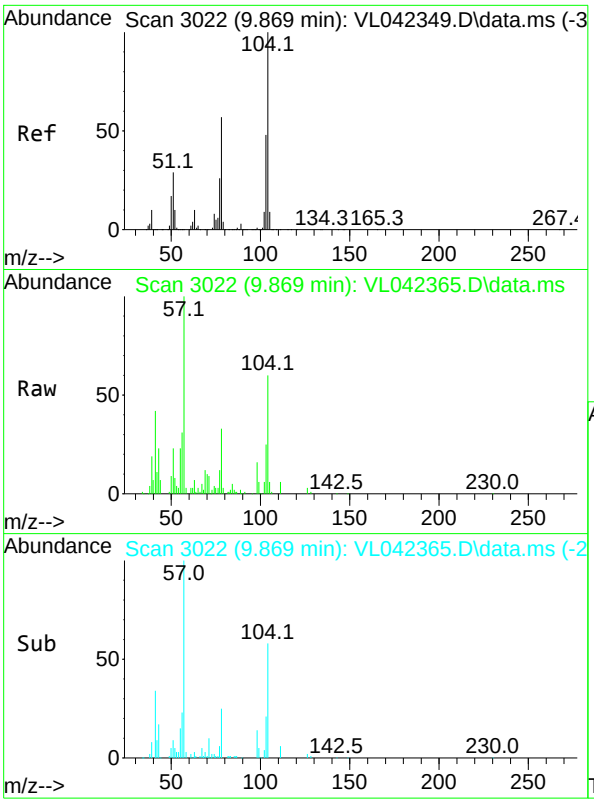


#60
o-Xylene
Concen: 2.264 ppbv
RT: 9.960 min Scan# 3050
Delta R.T. -0.003 min
Lab File: VL042365.D
Acq: 17 Apr 2025 19:31

Tgt Ion: 91 Resp: 110047

Ion	Ratio	Lower	Upper
91	100		
106	42.0	21.1	63.4

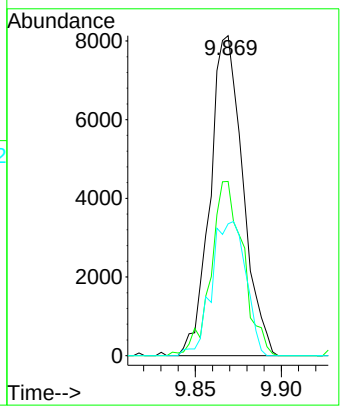




#61
Styrene
Concen: 0.465 ppbv
RT: 9.869 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042365.D
Acq: 17 Apr 2025 19:31

Tgt Ion:104 Resp: 1078

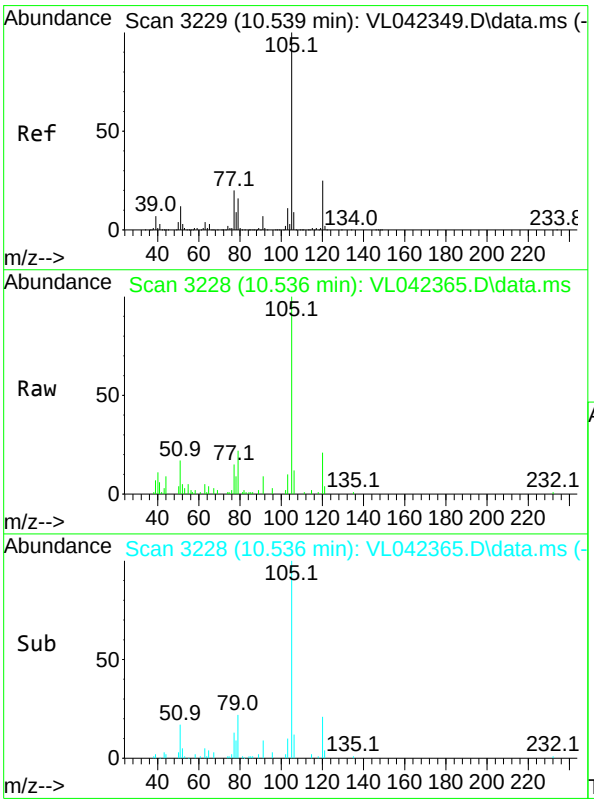
Ion	Ratio	Lower	Upper
104	100		
78	53.3	44.6	66.8
103	44.0	37.4	56.0



Instrument :
MSVOA_L
ClientSampleId :
IA-B1-2-3252025

Manual Integrations
APPROVED

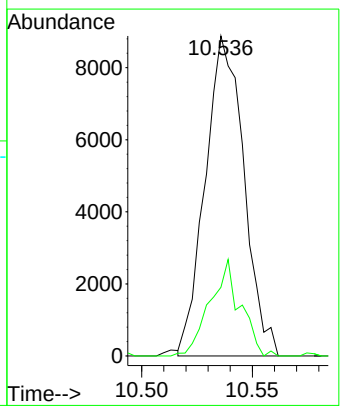
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

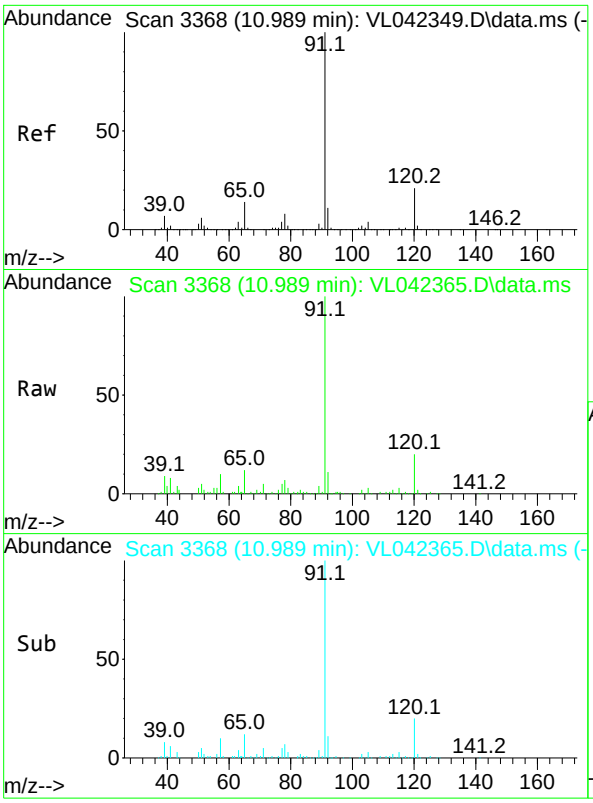


#62
Isopropylbenzene
Concen: 0.151 ppbv
RT: 10.536 min Scan# 3228
Delta R.T. -0.003 min
Lab File: VL042365.D
Acq: 17 Apr 2025 19:31

Tgt Ion:105 Resp: 10773

Ion	Ratio	Lower	Upper
105	100		
120	23.9	19.8	29.8





#64
n-propylbenzene
Concen: 0.625 ppbv
RT: 10.989 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042365.D
Acq: 17 Apr 2025 19:31

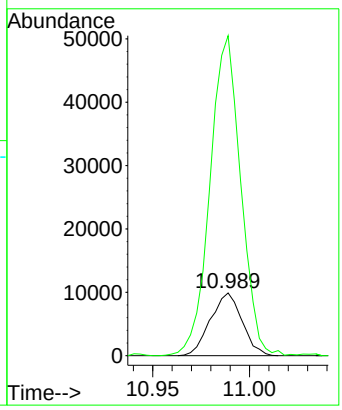
Tgt Ion:120 Resp: 1122

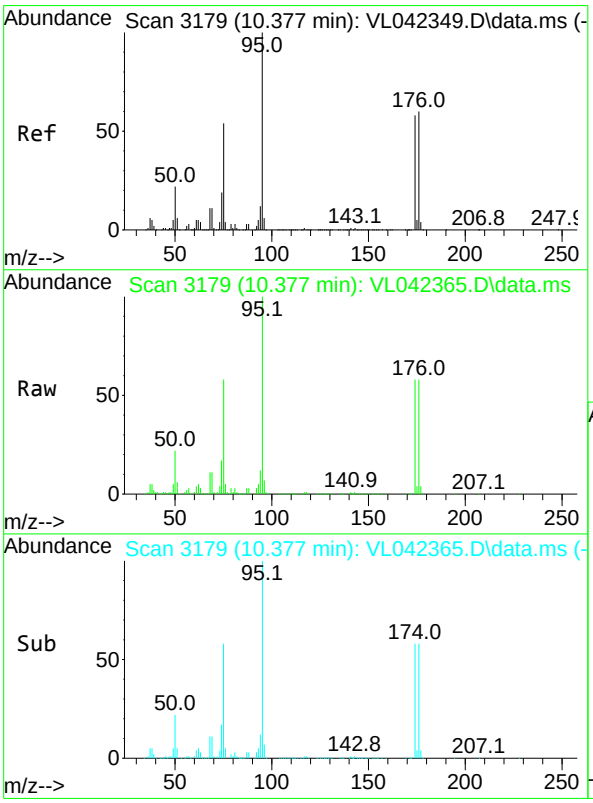
Ion	Ratio	Lower	Upper
120	100		
91	501.5	392.4	588.6

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-2-3252025

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

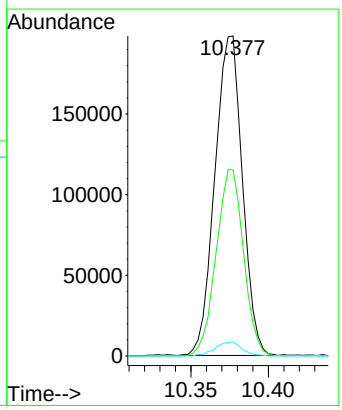


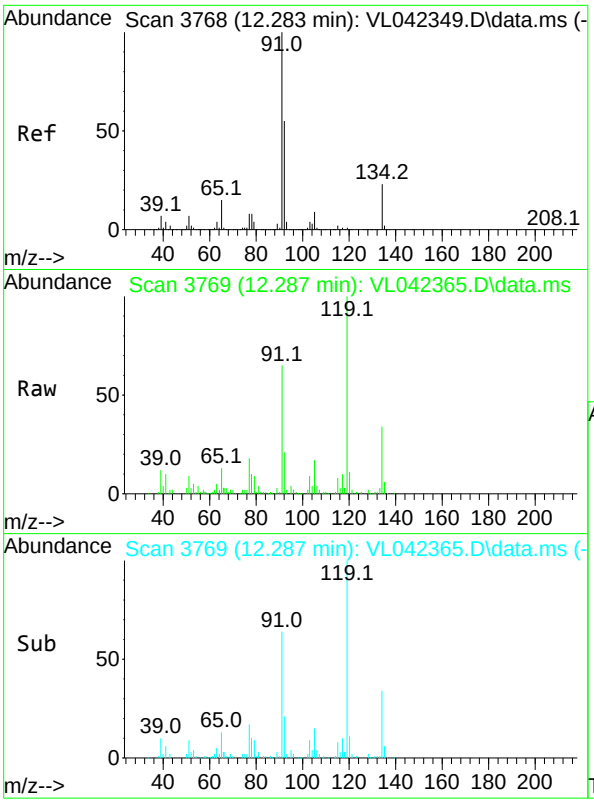


#68
1-Bromo-4-Fluorobenzene
Concen: 9.863 ppbv
RT: 10.377 min Scan# 3179
Delta R.T. 0.000 min
Lab File: VL042365.D
Acq: 17 Apr 2025 19:31

Tgt Ion: 95 Resp: 245115

Ion	Ratio	Lower	Upper
95	100		
174	58.1	48.5	72.7
175	4.3	3.7	5.5

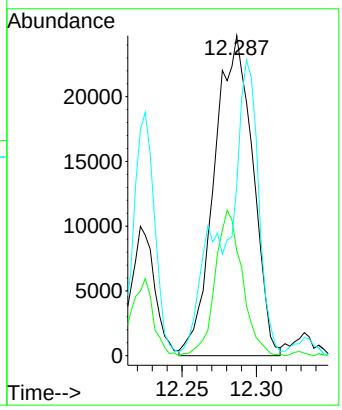




#70
n-Butylbenzene
Concen: 0.536 ppbv m
RT: 12.287 min Scan# 3
Delta R.T. 0.004 min
Lab File: VL042365.D
Acq: 17 Apr 2025 19:31

Tgt Ion: 91 Resp: 4427

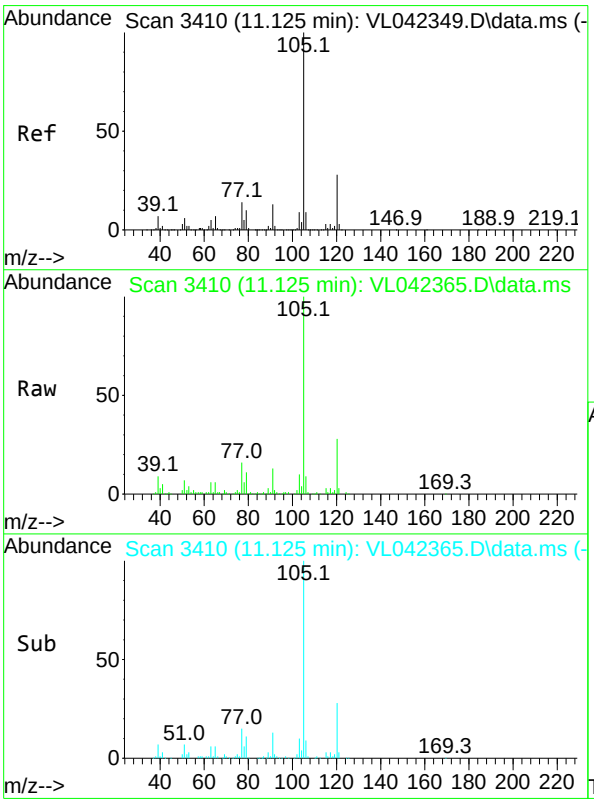
Ion	Ratio	Lower	Upper
91	100		
92	31.5	44.2	66.4#
134	0.0	18.2	27.4#



Instrument :
MSVOA_L
ClientSampleId :
IA-B1-2-3252025

Manual Integrations
APPROVED

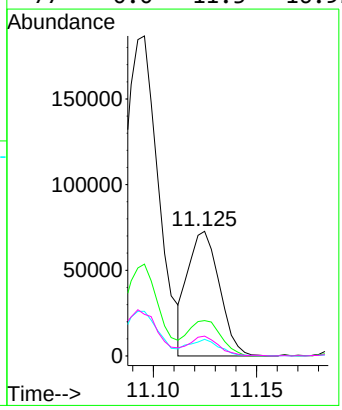
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

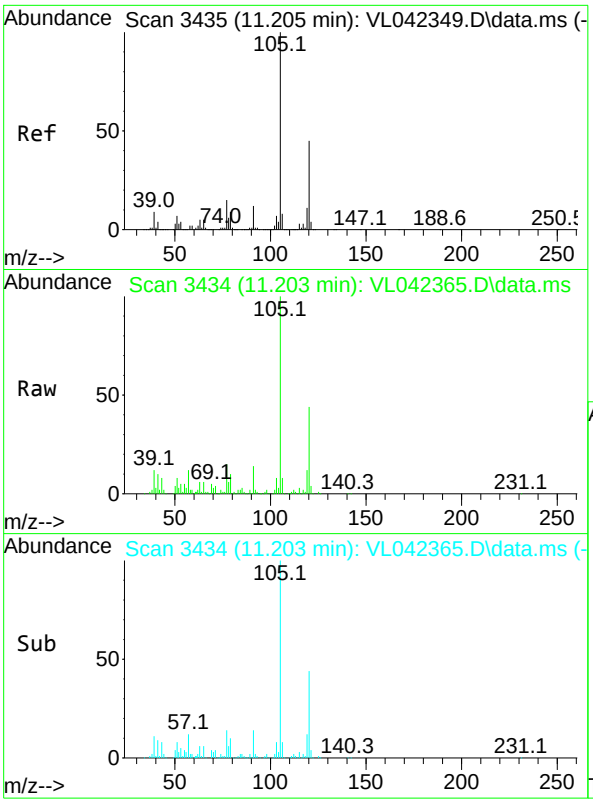


#72
4-Ethyltoluene
Concen: 1.306 ppbv
RT: 11.125 min Scan# 3410
Delta R.T. 0.000 min
Lab File: VL042365.D
Acq: 17 Apr 2025 19:31

Tgt Ion:105 Resp: 77634

Ion	Ratio	Lower	Upper
105	100		
120	0.0	23.2	34.8#
91	0.0	10.4	15.6#
77	0.0	11.3	16.9#





#73
1,3,5-Trimethylbenzene
Concen: 1.764 ppbv
RT: 11.203 min Scan# 34
Delta R.T. -0.003 min
Lab File: VL042365.D
Acq: 17 Apr 2025 19:31

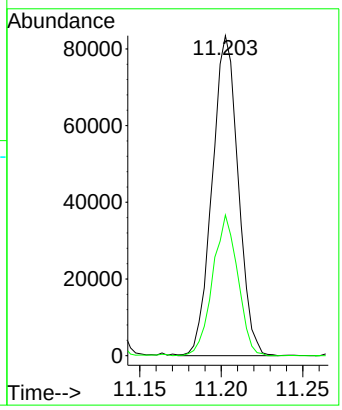
Tgt Ion:105 Resp: 9254

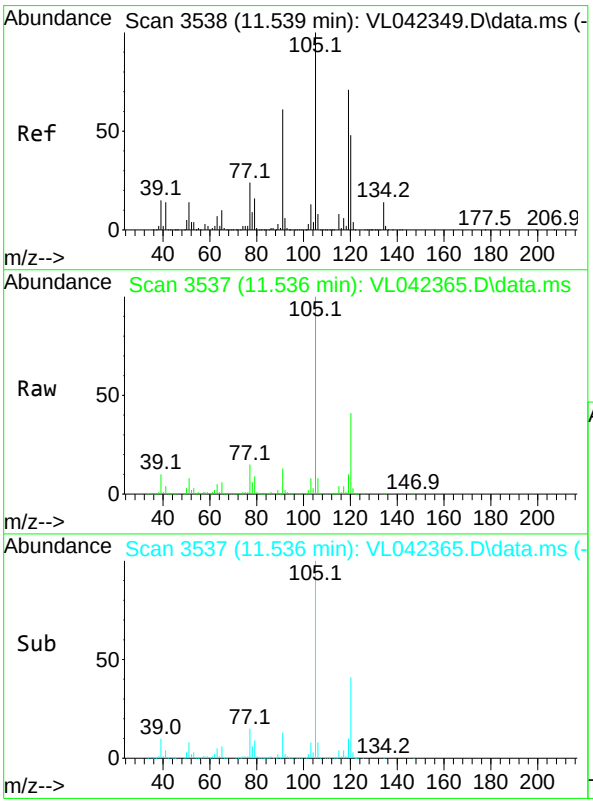
Ion	Ratio	Lower	Upper
105	100		
120	43.9	35.6	53.4

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-2-3252025

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

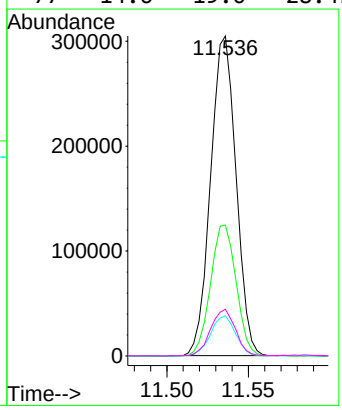


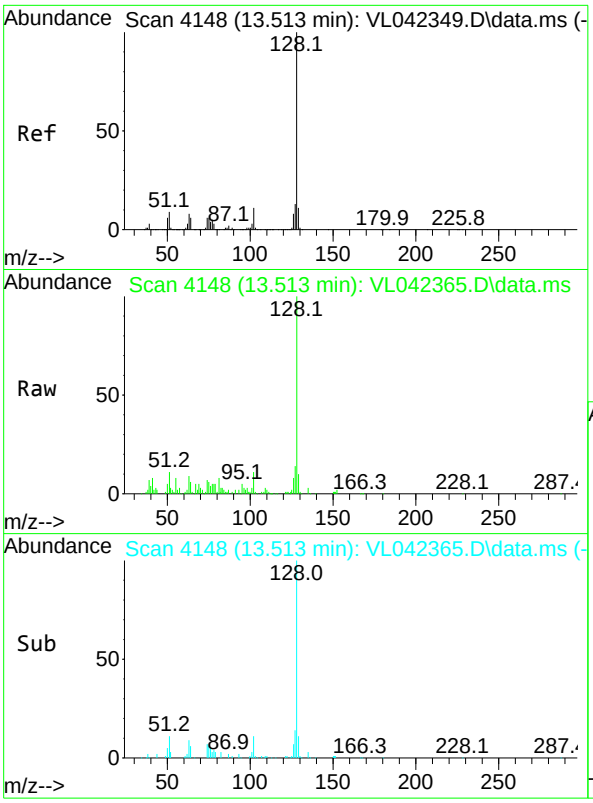


#74
1,2,4-Trimethylbenzene
Concen: 5.391 ppbv
RT: 11.536 min Scan# 3537
Delta R.T. -0.003 min
Lab File: VL042365.D
Acq: 17 Apr 2025 19:31

Tgt Ion:105 Resp: 330358

Ion	Ratio	Lower	Upper
105	100		
120	40.9	38.1	57.1
91	12.5	48.8	73.2#
77	14.6	19.0	28.4#

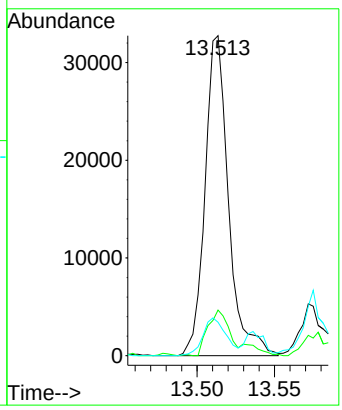




#79
Naphthalene
Concen: 0.472 ppbv
RT: 13.513 min Scan# 41
Delta R.T. 0.000 min
Lab File: VL042365.D
Acq: 17 Apr 2025 19:31

Tgt Ion:128 Resp: 3456

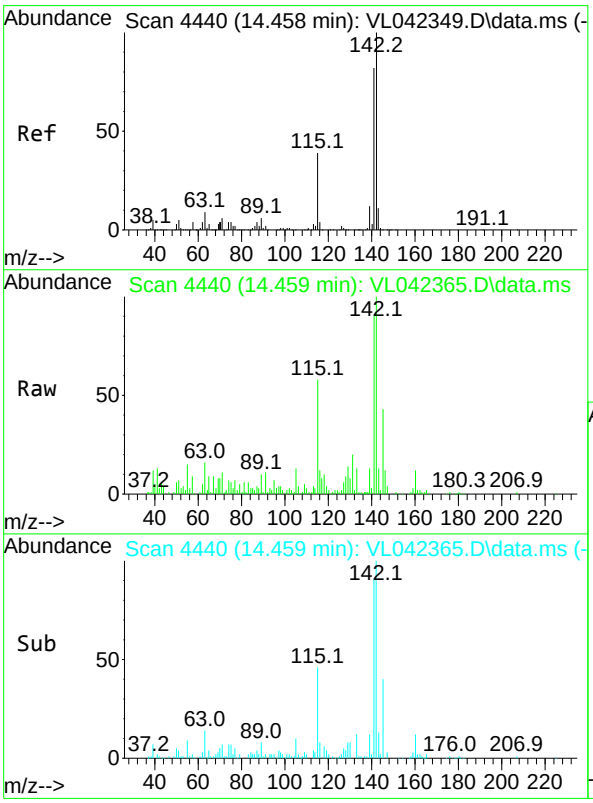
Ion	Ratio	Lower	Upper
128	100		
127	14.2	10.6	15.8
129	10.4	8.6	12.8



Instrument :
MSVOA_L
ClientSampleId :
IA-B1-2-3252025

Manual Integrations
APPROVED

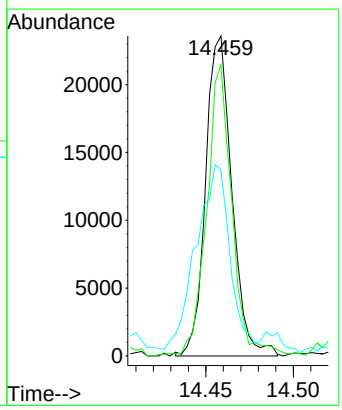
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#80
Naphthalene,2-methyl-
Concen: 0.590 ppbv m
RT: 14.459 min Scan# 4440
Delta R.T. 0.000 min
Lab File: VL042365.D
Acq: 17 Apr 2025 19:31

Tgt Ion:142 Resp: 24628

Ion	Ratio	Lower	Upper
142	100		
141	49.4	66.8	100.2#
115	28.5	33.4	50.2#



LSC Area Percent Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042365.D
Acq On : 17 Apr 2025 19:31
Operator : SY/MD
Sample : Q1668-02
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-2-3252025

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 3 Min Area: 3 % of largest Peak
Start Thrs: 0.001 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 0

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

Signal : TIC: VL042365.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.431	410	415	420	rBV	4141908	4695063	100.00%	16.122%
2	1.557	449	454	460	rBV	281816	152999	3.26%	0.525%
3	1.619	470	473	477	rVB	103865	55858	1.19%	0.192%
4	1.719	500	504	509	rBV	596794	352833	7.51%	1.212%
5	1.842	535	542	547	rVB2	250749	255734	5.45%	0.878%
6	1.884	549	555	560	rBV	92879	75702	1.61%	0.260%
7	1.962	575	579	584	rVB	116793	74687	1.59%	0.256%
8	2.473	732	737	744	rVB2	96982	95814	2.04%	0.329%
9	2.622	777	783	792	rVB2	64381	70818	1.51%	0.243%
10	2.787	826	834	840	rBV	435768	454320	9.68%	1.560%
11	2.826	840	846	859	rVB2	211668	240759	5.13%	0.827%
12	3.227	962	970	980	rVB2	54239	74605	1.59%	0.256%
13	3.855	1153	1164	1175	rBV3	61345	99575	2.12%	0.342%
14	3.956	1182	1195	1209	rBV2	554957	910647	19.40%	3.127%
15	4.050	1212	1224	1233	rVV2	117128	221708	4.72%	0.761%
16	4.095	1233	1238	1249	rVB4	50648	78154	1.66%	0.268%
17	4.266	1276	1291	1304	rVB3	144740	277896	5.92%	0.954%
18	4.522	1356	1370	1376	rBV9	21328	48449	1.03%	0.166%
19	4.978	1497	1511	1525	rVB5	67437	146959	3.13%	0.505%
20	5.665	1701	1723	1737	rBV4	50324	131187	2.79%	0.450%
21	5.746	1737	1748	1771	rBV3	556848	1392302	29.65%	4.781%
22	6.930	2100	2114	2133	rBV2	90218	183785	3.91%	0.631%
23	7.691	2336	2349	2361	rVB6	40493	82301	1.75%	0.283%
24	8.302	2519	2538	2554	rVB8	45108	125963	2.68%	0.433%
25	8.879	2701	2716	2727	rBV	755041	1135538	24.19%	3.899%
26	8.979	2740	2747	2762	rVB9	41756	83444	1.78%	0.287%
27	9.147	2790	2799	2810	rVB4	44198	66685	1.42%	0.229%
28	9.354	2852	2863	2876	rBV	103726	168110	3.58%	0.577%
29	9.529	2907	2917	2935	rVB3	490845	854946	18.21%	2.936%
30	9.630	2940	2948	2964	rVV	127446	214582	4.57%	0.737%
31	9.730	2964	2979	2990	rVB6	87260	206864	4.41%	0.710%
32	9.859	3004	3019	3029	rBV4	113741	189758	4.04%	0.652%
33	9.960	3037	3050	3072	rVB2	253251	453620	9.66%	1.558%
34	10.099	3087	3093	3101	rVB4	50465	72865	1.55%	0.250%
35	10.374	3156	3178	3188	rBV2	942848	1390355	29.61%	4.774%
36	10.429	3188	3195	3203	rVB2	46612	60199	1.28%	0.207%

LSC Area Percent Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042365.D
Acq On : 17 Apr 2025 19:31
Operator : SY/MD
Sample : Q1668-02
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-2-3252025

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 3 Min Area: 3 % of largest Peak
Start Thrs: 0.001 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 0

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

37	10.769	3288	3300	3304	rBV4	46522	70979	1.51%	0.244%
38	10.853	3321	3326	3333	rVB7	56426	67266	1.43%	0.231%
39	10.898	3333	3340	3352	rVB2	62822	83032	1.77%	0.285%
40	10.989	3352	3368	3381	rBV2	124238	212645	4.53%	0.730%
41	11.096	3393	3401	3406	rBV	490017	564207	12.02%	1.937%
42	11.125	3406	3410	3421	rVB	204076	229248	4.88%	0.787%
43	11.203	3421	3434	3442	rBV2	303503	364339	7.76%	1.251%
44	11.254	3442	3450	3453	rBV4	62581	69236	1.47%	0.238%
45	11.280	3453	3458	3463	rVV2	99116	121422	2.59%	0.417%
46	11.313	3463	3468	3471	rVV3	118355	120415	2.56%	0.413%
47	11.335	3471	3475	3488	rVB	171209	209341	4.46%	0.719%
48	11.400	3488	3495	3501	rBV2	131892	142005	3.02%	0.488%
49	11.536	3528	3537	3547	rBV	878398	1010184	21.52%	3.469%
50	11.588	3547	3553	3565	rVB6	51057	85776	1.83%	0.295%
51	11.724	3584	3595	3597	rBV4	51879	71154	1.52%	0.244%
52	11.753	3597	3604	3617	rVB4	302075	425736	9.07%	1.462%
53	11.879	3636	3643	3650	rVB2	273356	286710	6.11%	0.985%
54	12.018	3674	3686	3690	rBV	169430	210264	4.48%	0.722%
55	12.038	3690	3692	3703	rVB4	86129	86400	1.84%	0.297%
56	12.096	3703	3710	3716	rBV5	46264	56797	1.21%	0.195%
57	12.170	3726	3733	3736	rBV4	58552	63417	1.35%	0.218%
58	12.193	3736	3740	3744	rVV2	82862	82599	1.76%	0.284%
59	12.222	3744	3749	3757	rVV	245543	260762	5.55%	0.895%
60	12.271	3757	3764	3767	rVV3	99326	120716	2.57%	0.415%
61	12.293	3767	3771	3777	rVB2	206331	209849	4.47%	0.721%
62	12.403	3794	3805	3811	rBV4	169382	188598	4.02%	0.648%
63	12.439	3811	3816	3821	rVB3	97284	96378	2.05%	0.331%
64	12.475	3821	3827	3831	rBV3	107338	105891	2.26%	0.364%
65	12.504	3831	3836	3839	rVV2	179220	185747	3.96%	0.638%
66	12.523	3839	3842	3845	rVV2	138934	136524	2.91%	0.469%
67	12.542	3845	3848	3855	rVB	171800	160806	3.43%	0.552%
68	12.588	3855	3862	3872	rVB2	280321	392865	8.37%	1.349%
69	12.669	3872	3887	3893	rBV6	104901	152580	3.25%	0.524%
70	12.772	3913	3919	3922	rBV5	42228	48149	1.03%	0.165%
71	12.827	3930	3936	3942	rVB	343971	331834	7.07%	1.139%
72	12.860	3942	3946	3955	rVB7	51185	64682	1.38%	0.222%
73	12.918	3955	3964	3969	rBV2	157612	182379	3.88%	0.626%
74	12.950	3969	3974	3983	rVB2	211957	209676	4.47%	0.720%
75	13.002	3983	3990	4000	rVB5	114499	169289	3.61%	0.581%
76	13.102	4015	4021	4024	rBV3	84600	96977	2.07%	0.333%

LSC Area Percent Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042365.D
Acq On : 17 Apr 2025 19:31
Operator : SY/MD
Sample : Q1668-02
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-2-3252025

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 3 Min Area: 3 % of largest Peak
Start Thrs: 0.001 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 0

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

77	13.125	4024	4028	4035	rVB3	163603	168046	3.58%	0.577%
78	13.164	4035	4040	4045	rBV5	113495	118721	2.53%	0.408%
79	13.190	4045	4048	4053	rVB5	71019	59158	1.26%	0.203%
80	13.225	4053	4059	4065	rBV	237940	295096	6.29%	1.013%
81	13.251	4065	4067	4074	rVB2	104393	104079	2.22%	0.357%
82	13.293	4074	4080	4085	rBV5	50136	61846	1.32%	0.212%
83	13.329	4085	4091	4097	rBV5	254292	307548	6.55%	1.056%
84	13.387	4102	4109	4114	rVB4	174138	203101	4.33%	0.697%
85	13.423	4114	4120	4124	rBV3	114712	120567	2.57%	0.414%
86	13.449	4124	4128	4134	rVB3	57445	56234	1.20%	0.193%
87	13.484	4134	4139	4144	rBV	66778	53202	1.13%	0.183%
88	13.513	4144	4148	4151	rBV	62803	55129	1.17%	0.189%
89	13.536	4151	4155	4160	rVB4	69531	64336	1.37%	0.221%
90	13.575	4160	4167	4170	rBV2	115719	126828	2.70%	0.436%
91	13.591	4170	4172	4177	rVB3	81718	67030	1.43%	0.230%
92	13.659	4177	4193	4204	rVB5	183583	351962	7.50%	1.209%
93	13.724	4204	4213	4219	rBV	379415	388375	8.27%	1.334%
94	13.750	4219	4221	4231	rVB7	56914	66928	1.43%	0.230%
95	13.827	4231	4245	4251	rBV2	138116	196648	4.19%	0.675%
96	13.860	4251	4255	4259	rVV	88629	83118	1.77%	0.285%
97	13.895	4259	4266	4273	rVB5	82075	112018	2.39%	0.385%
98	13.980	4281	4292	4297	rBV8	78468	104677	2.23%	0.359%
99	14.028	4297	4307	4311	rBV10	56209	74863	1.59%	0.257%
100	14.106	4318	4331	4337	rBV4	89741	152823	3.25%	0.525%
101	14.171	4349	4351	4360	rVB9	46307	49433	1.05%	0.170%
102	14.232	4360	4370	4386	rBV6	235507	411559	8.77%	1.413%
103	14.303	4386	4392	4397	rVV5	83864	87475	1.86%	0.300%
104	14.339	4397	4403	4410	rVV4	124673	146617	3.12%	0.503%
105	14.374	4410	4414	4420	rVB6	52669	51572	1.10%	0.177%
106	14.449	4428	4437	4444	rBV4	154343	239826	5.11%	0.824%
107	14.488	4444	4449	4453	rVV7	50370	54463	1.16%	0.187%
108	14.520	4453	4459	4472	rVB	341906	386516	8.23%	1.327%
109	14.585	4472	4479	4484	rBV3	67710	77439	1.65%	0.266%
110	14.662	4495	4503	4513	rBV3	182218	276746	5.89%	0.950%
111	14.789	4534	4542	4551	rVB6	65436	107127	2.28%	0.368%
112	14.896	4568	4575	4580	rVB5	53476	66153	1.41%	0.227%
113	14.999	4599	4607	4612	rVB7	48418	47518	1.01%	0.163%
114	15.051	4618	4623	4634	rBV9	42816	73526	1.57%	0.252%
115	15.109	4634	4641	4649	rVB4	84907	111910	2.38%	0.384%
116	15.193	4661	4667	4671	rBV4	77632	75433	1.61%	0.259%

LSC Area Percent Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042365.D
Acq On : 17 Apr 2025 19:31
Operator : SY/MD
Sample : Q1668-02
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-2-3252025

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 3 Min Area: 3 % of largest Peak
Start Thrs: 0.001 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 0

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

117	15.242	4676	4682	4690	rVV2	232712	257399	5.48%	0.884%
118	15.284	4690	4695	4702	rVB10	41012	49510	1.05%	0.170%
119	15.472	4746	4753	4760	rVB10	31369	50014	1.07%	0.172%
120	15.582	4783	4787	4801	rVB10	80292	115772	2.47%	0.398%
121	15.795	4846	4853	4858	rBV10	48719	51623	1.10%	0.177%

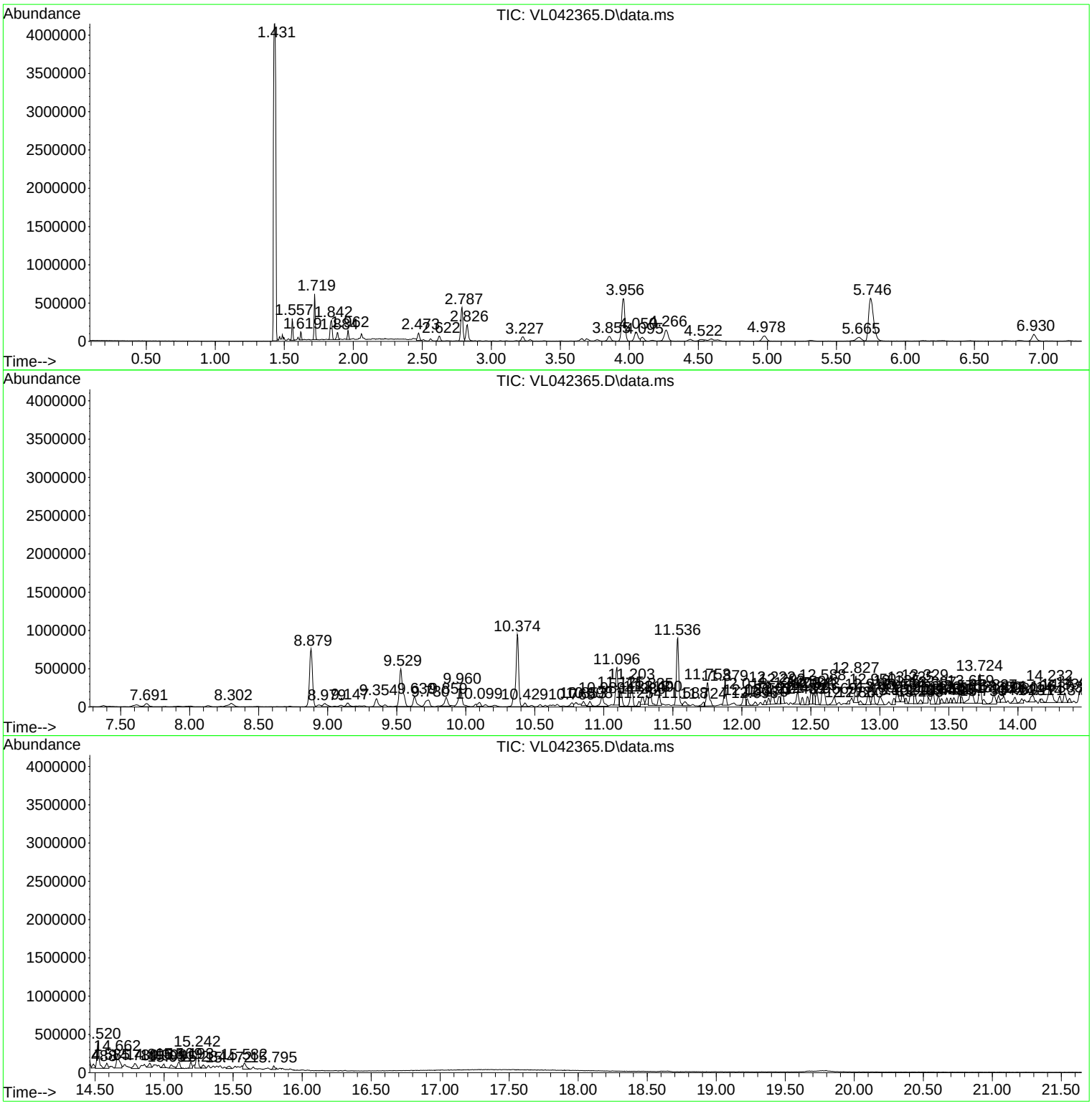
Sum of corrected areas: 29121922

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042365.D
Acq On : 17 Apr 2025 19:31
Operator : SY/MD
Sample : Q1668-02
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-2-3252025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042365.D
Acq On : 17 Apr 2025 19:31
Operator : SY/MD
Sample : Q1668-02
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-2-3252025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

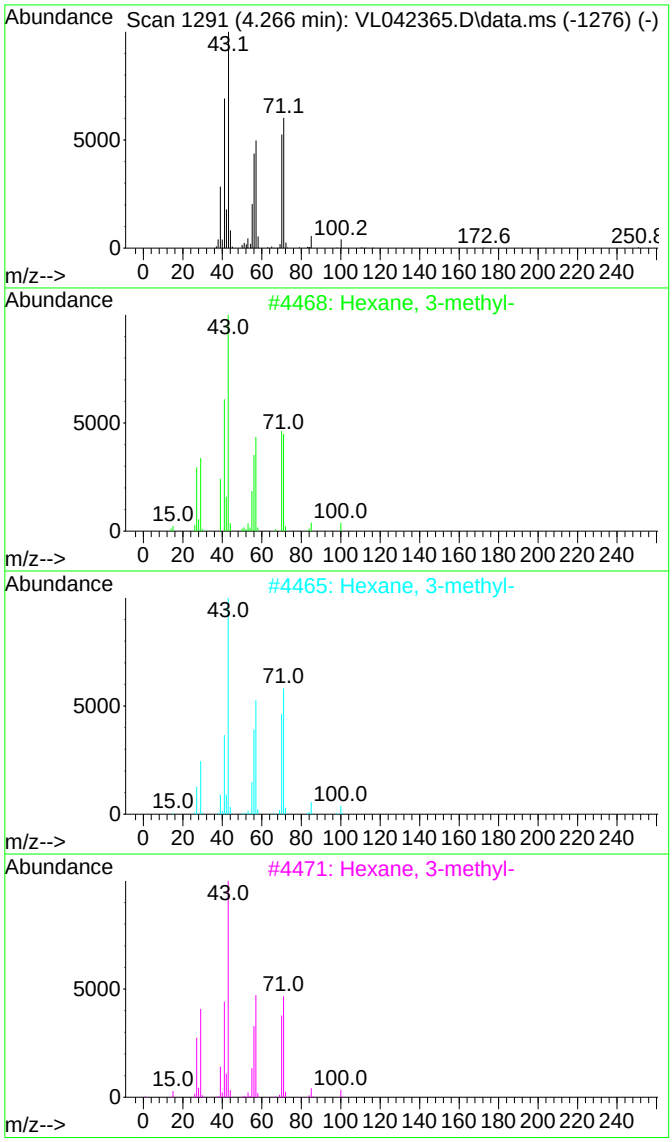
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

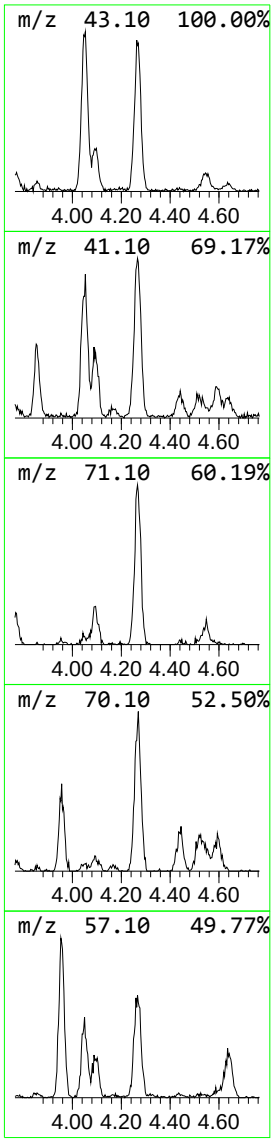
****

Peak Number 1 Hexane, 3-methyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.266	3.05 ppbv	277896	1,4-Difluorobenzene	3.959

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 3-methyl-	100	C7H16	000589-34-4	91
2	Hexane, 3-methyl-	100	C7H16	000589-34-4	91
3	Hexane, 3-methyl-	100	C7H16	000589-34-4	90
4	Heptane	100	C7H16	000142-82-5	59
5	Hexane, 2,3-dimethyl-	114	C8H18	000584-94-1	53





Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042365.D
Acq On : 17 Apr 2025 19:31
Operator : SY/MD
Sample : Q1668-02
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-2-3252025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

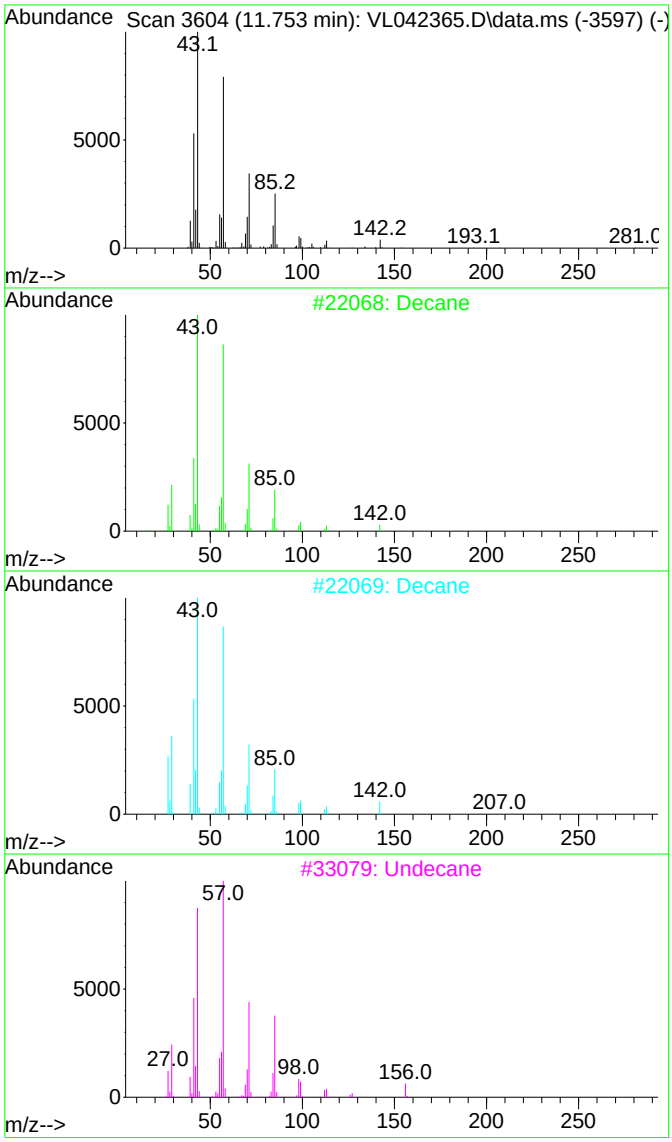
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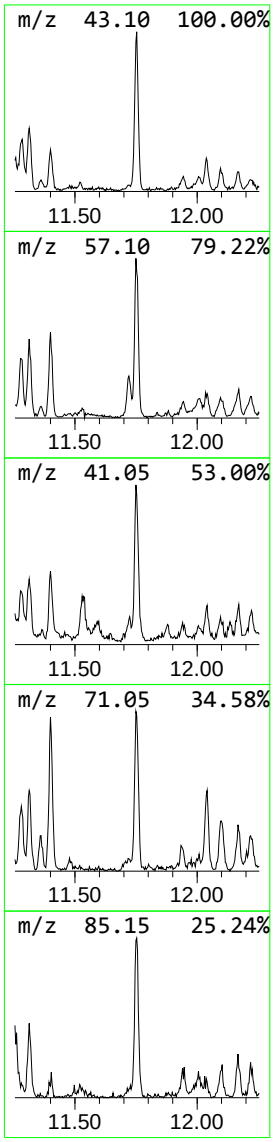
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Peak Number 2 Decane Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.753	3.75 ppbv	425736	Chlorobenzene-d5	8.879

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Decane	142	C10H22	000124-18-5	91
2	Decane	142	C10H22	000124-18-5	90
3	Undecane	156	C11H24	001120-21-4	83
4	Decane	142	C10H22	000124-18-5	72
5	Undecane, 4,7-dimethyl-	184	C13H28	017301-32-5	72





Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042365.D
Acq On : 17 Apr 2025 19:31
Operator : SY/MD
Sample : Q1668-02
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-2-3252025

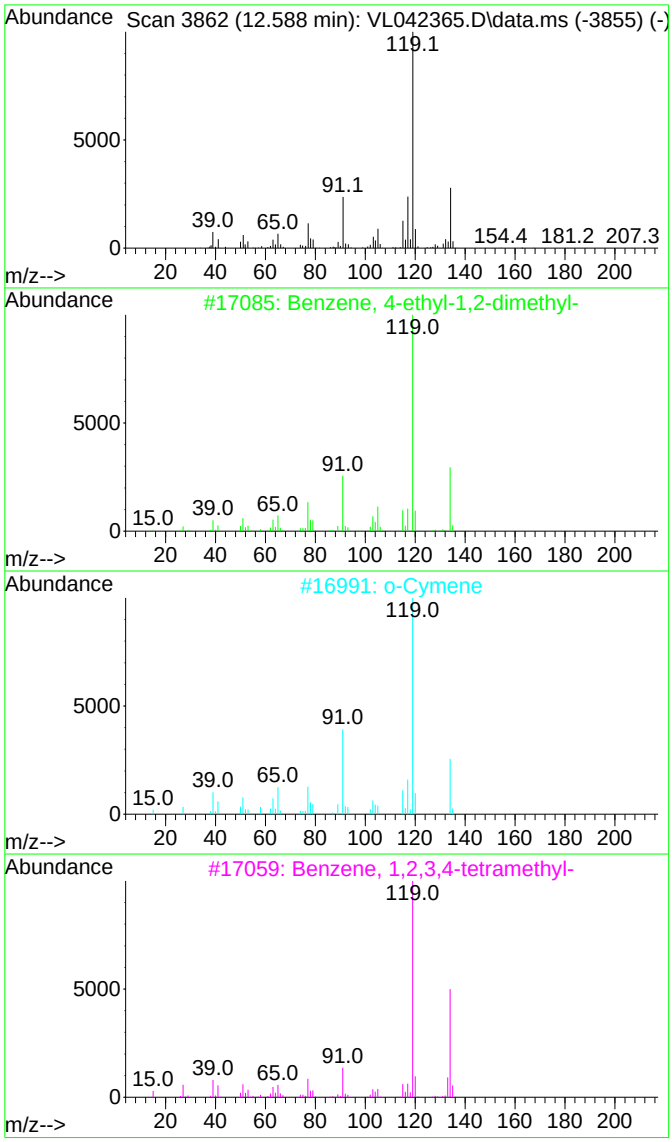
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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

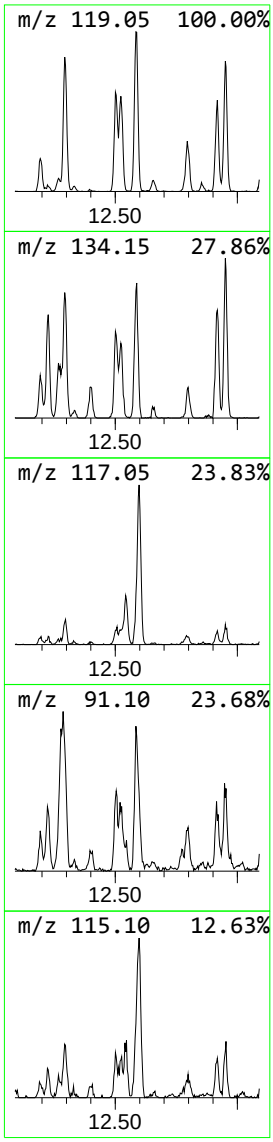
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 3 Benzene, 4-ethyl-1,2-dimethyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.588	3.46 ppbv	392865	Chlorobenzene-d5	8.879

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 4-ethyl-1,2-dimethyl-	134	C10H14	000934-80-5	94
2	o-Cymene	134	C10H14	000527-84-4	90
3	Benzene, 1,2,3,4-tetramethyl-	134	C10H14	000488-23-3	87
4	Benzene, 2-ethyl-1,3-dimethyl-	134	C10H14	002870-04-4	87
5	Benzene, 1-ethyl-3,5-dimethyl-	134	C10H14	000934-74-7	87





Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042365.D
Acq On : 17 Apr 2025 19:31
Operator : SY/MD
Sample : Q1668-02
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-2-3252025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

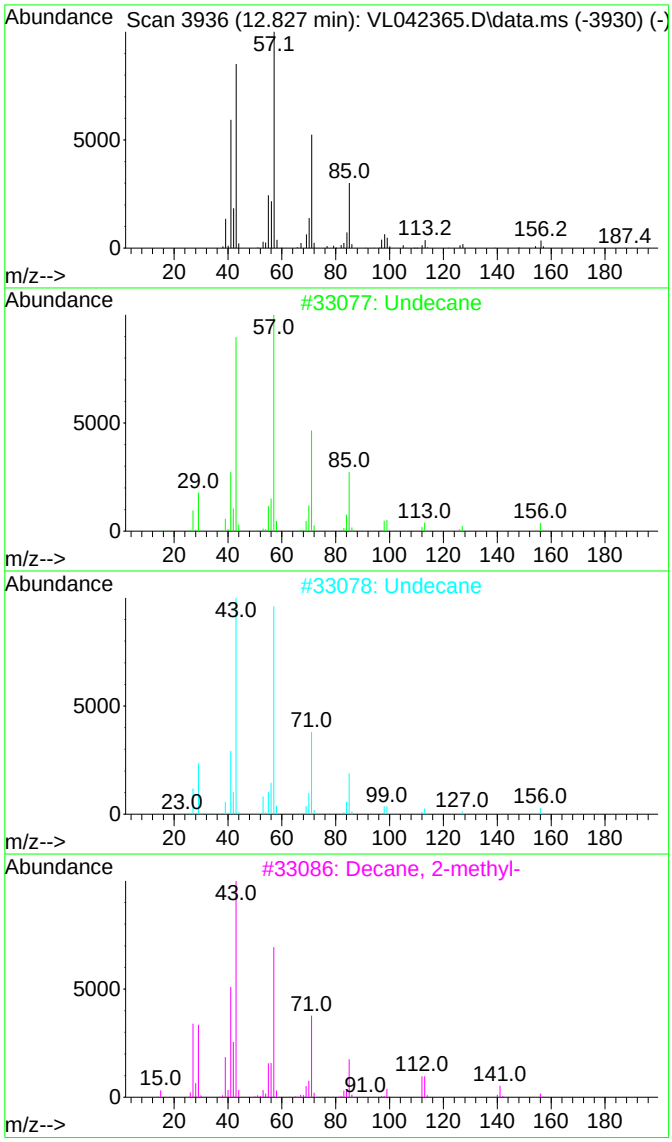
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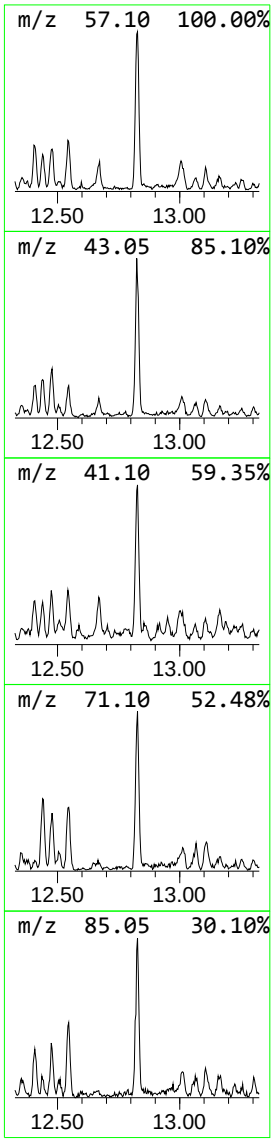
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Peak Number 4 Undecane Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.827	2.92 ppbv	331834	Chlorobenzene-d5	8.879

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Undecane	156	C11H24	001120-21-4	87
2	Undecane	156	C11H24	001120-21-4	81
3	Decane, 2-methyl-	156	C11H24	006975-98-0	80
4	Decane	142	C10H22	000124-18-5	78
5	Tridecane	184	C13H28	000629-50-5	72





Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042365.D
Acq On : 17 Apr 2025 19:31
Operator : SY/MD
Sample : Q1668-02
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-2-3252025

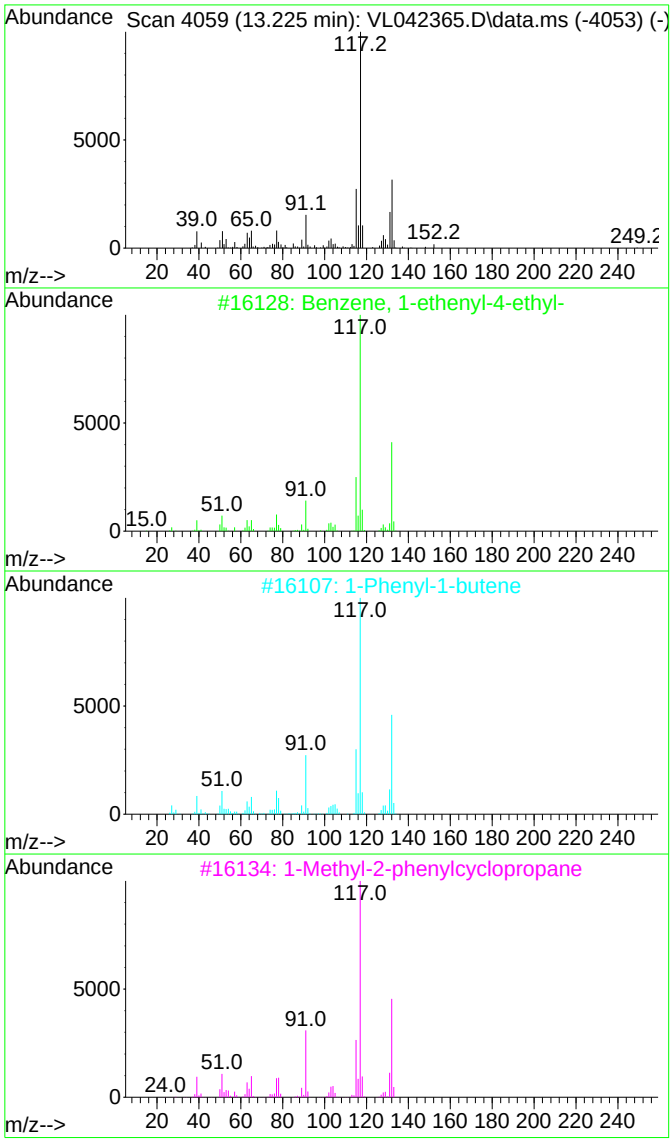
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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

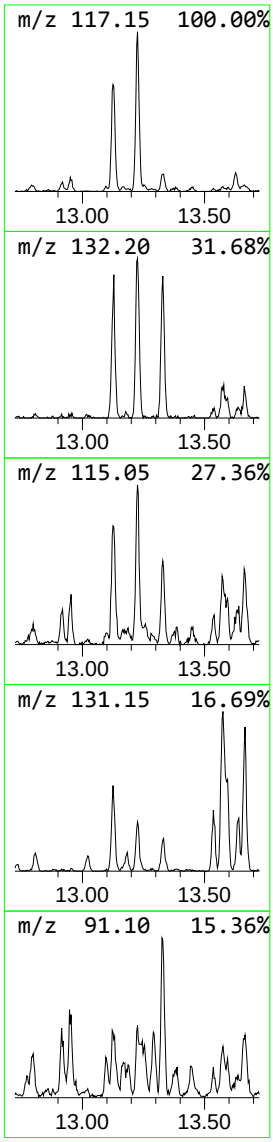
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 5 Benzene, 1-ethenyl-4-ethyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.225	2.60 ppbv	295096	Chlorobenzene-d5	8.879

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-ethenyl-4-ethyl-	132	C10H12	003454-07-7	94
2	1-Phenyl-1-butene	132	C10H12	000824-90-8	94
3	1-Methyl-2-phenylcyclopropane	132	C10H12	003145-76-4	94
4	Indan, 1-methyl-	132	C10H12	000767-58-8	91
5	3-Phenylbut-1-ene	132	C10H12	000934-10-1	91





Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042365.D
Acq On : 17 Apr 2025 19:31
Operator : SY/MD
Sample : Q1668-02
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-2-3252025

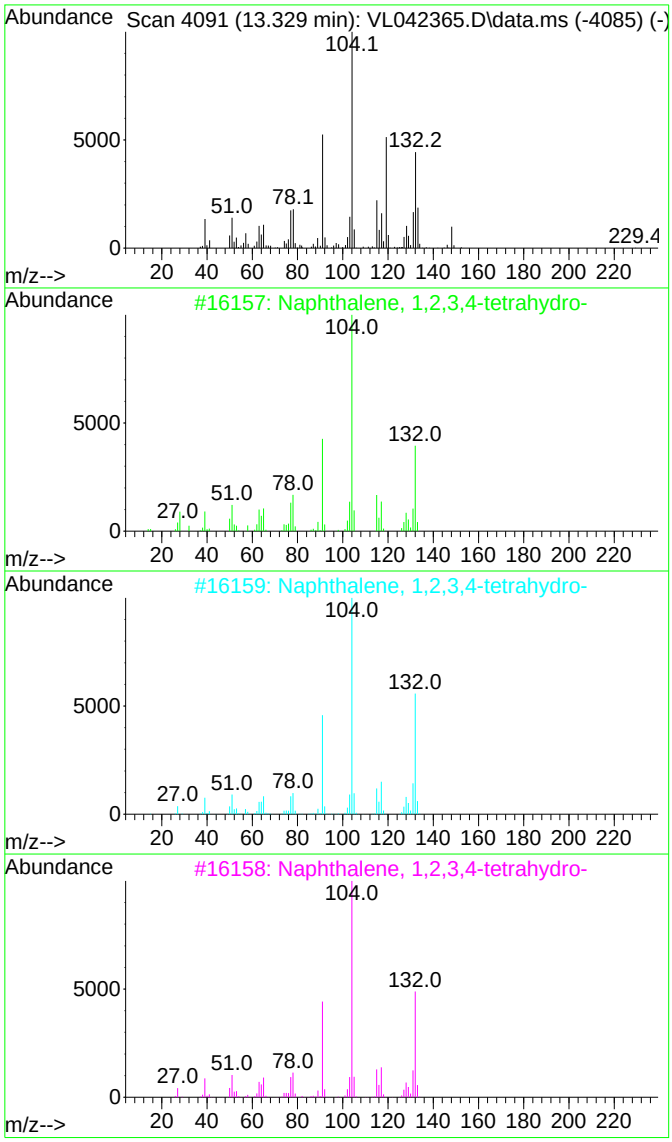
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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

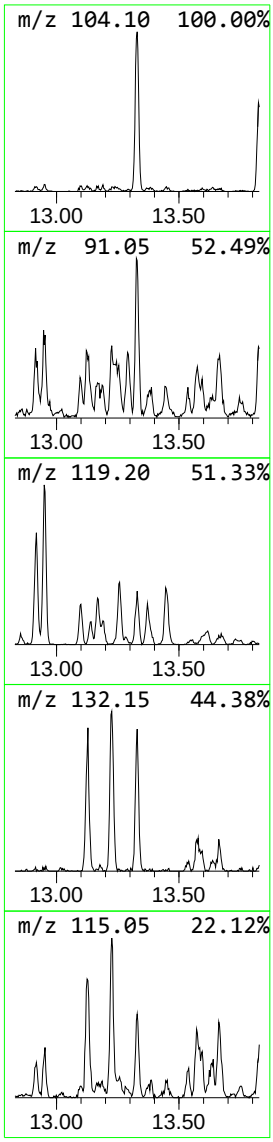
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 6 Naphthalene, 1,2,3,4-tetrah... Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.329	2.71 ppbv	307548	Chlorobenzene-d5	8.879

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1,2,3,4-tetrahydro-	132	C10H12	000119-64-2	95
2	Naphthalene, 1,2,3,4-tetrahydro-	132	C10H12	000119-64-2	92
3	Naphthalene, 1,2,3,4-tetrahydro-	132	C10H12	000119-64-2	92
4	Naphthalene, 1,2,3,4-tetrahydro-	132	C10H12	000119-64-2	64
5	Naphthalene, 1,2,3,4-tetrahydro-	132	C10H12	000119-64-2	64





Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042365.D
Acq On : 17 Apr 2025 19:31
Operator : SY/MD
Sample : Q1668-02
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-2-3252025

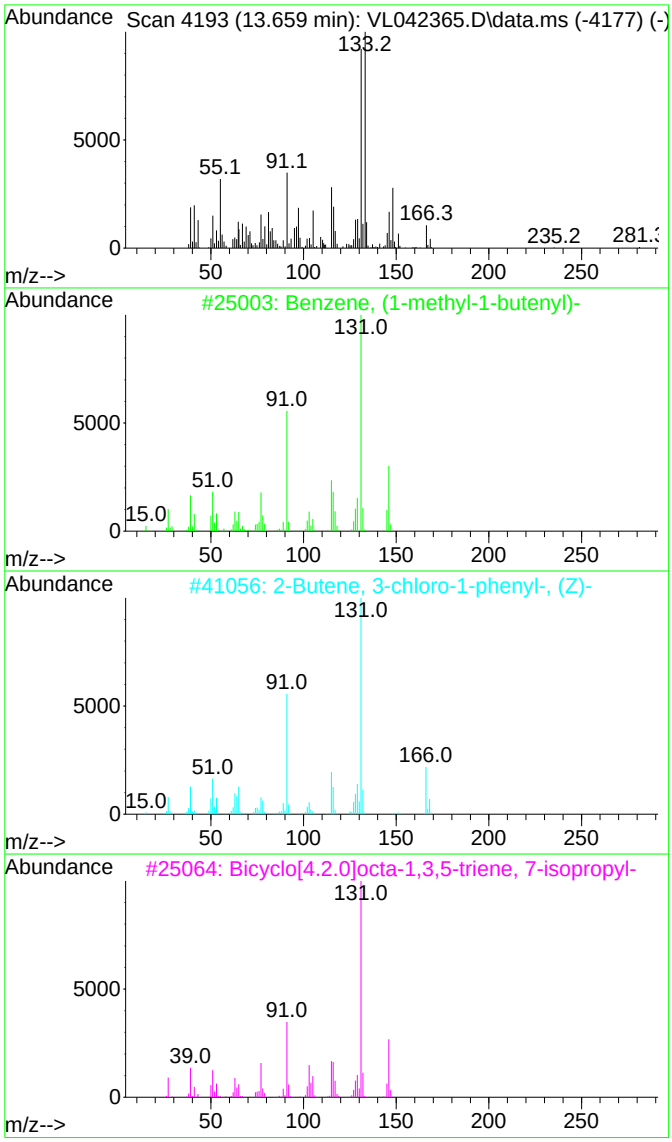
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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

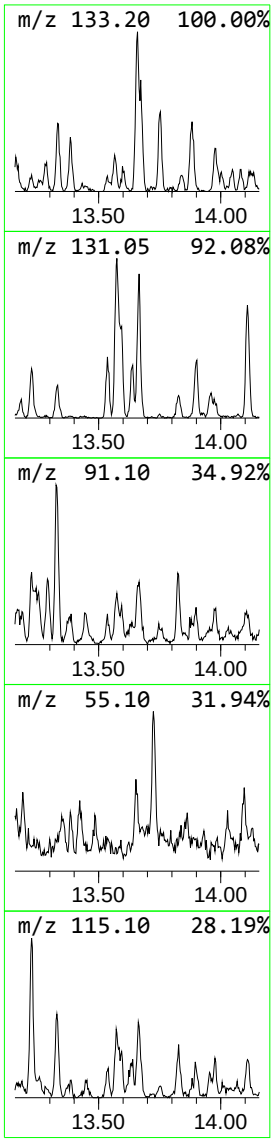
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 7 Benzene, (1-methyl-1-butenyl)- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.659	3.10 ppbv	351962	Chlorobenzene-d5	8.879

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, (1-methyl-1-butenyl)-	146	C11H14	053172-84-2	64
2	2-Butene, 3-chloro-1-phenyl-, (Z)-	166	C10H11Cl	016608-68-7	64
3	Bicyclo[4.2.0]octa-1,3,5-triene,...	146	C11H14	027087-54-3	50
4	Benzene, (2-chloro-2-butenyl)-	166	C10H11Cl	054411-12-0	50
5	Benzene, 1-methyl-3-(1-methyl-2-...	146	C11H14	052161-57-6	50





Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042365.D
Acq On : 17 Apr 2025 19:31
Operator : SY/MD
Sample : Q1668-02
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-2-3252025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

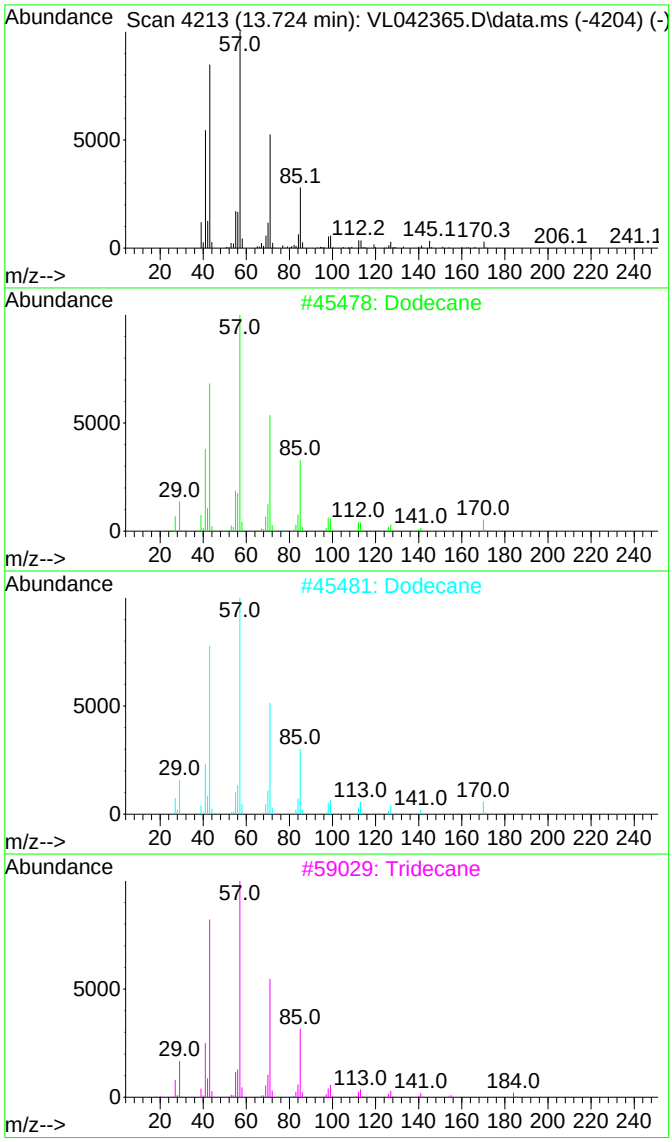
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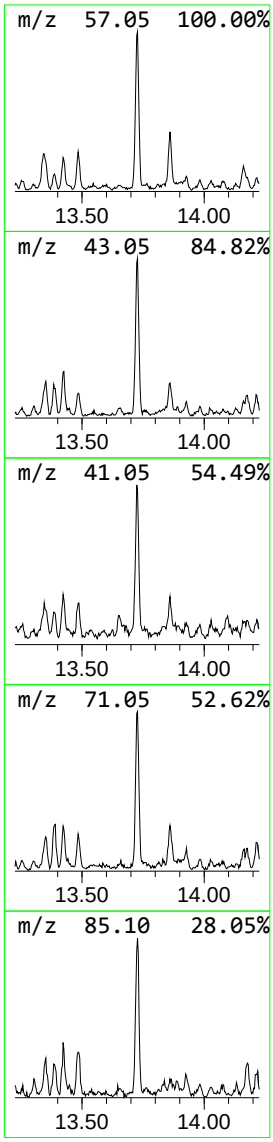
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Peak Number 8 Dodecane Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.724	3.42 ppbv	388375	Chlorobenzene-d5	8.879

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dodecane	170	C12H26	000112-40-3	96
2	Dodecane	170	C12H26	000112-40-3	95
3	Tridecane	184	C13H28	000629-50-5	90
4	Undecane	156	C11H24	001120-21-4	86
5	Dodecane	170	C12H26	000112-40-3	86





Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042365.D
Acq On : 17 Apr 2025 19:31
Operator : SY/MD
Sample : Q1668-02
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-2-3252025

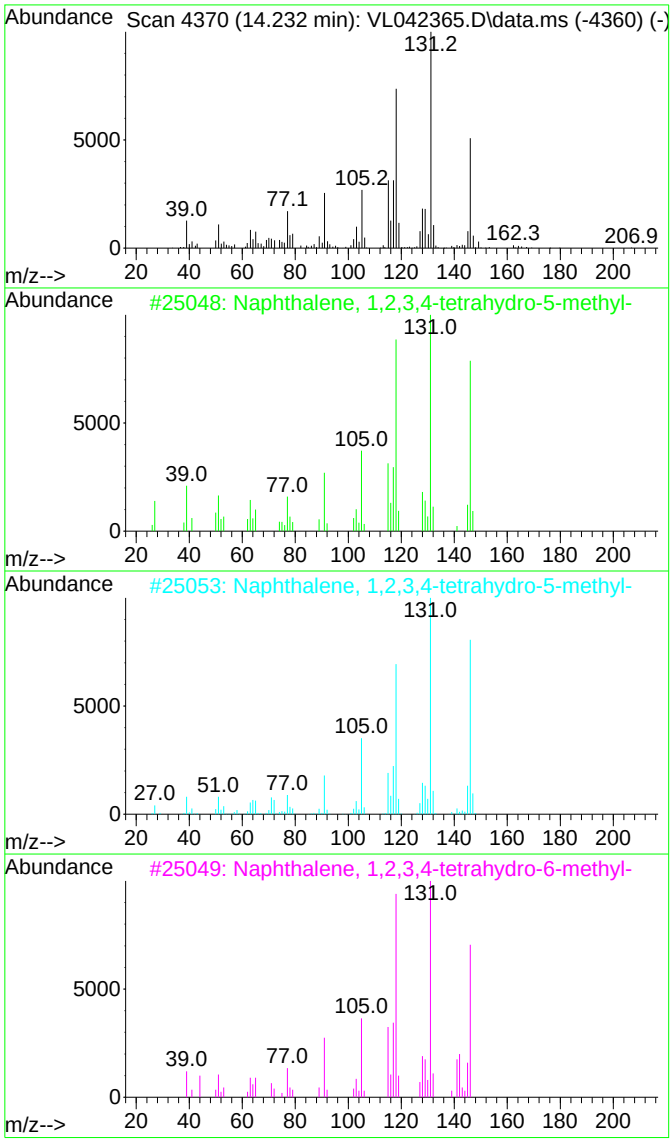
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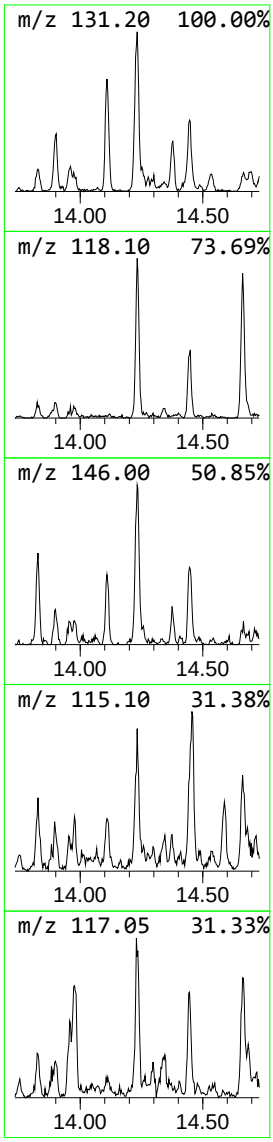
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 9 Naphthalene, 1,2,3,4-tetrah... Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.232	3.62 ppbv	411559	Chlorobenzene-d5	8.879

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1,2,3,4-tetrahydro-...	146	C11H14	002809-64-5	97
2	Naphthalene, 1,2,3,4-tetrahydro-...	146	C11H14	002809-64-5	96
3	Naphthalene, 1,2,3,4-tetrahydro-...	146	C11H14	001680-51-9	95
4	Naphthalene, 1,2,3,4-tetrahydro-...	146	C11H14	002809-64-5	94
5	Naphthalene, 1,2,3,4-tetrahydro-...	146	C11H14	001680-51-9	94





Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042365.D
Acq On : 17 Apr 2025 19:31
Operator : SY/MD
Sample : Q1668-02
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-2-3252025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

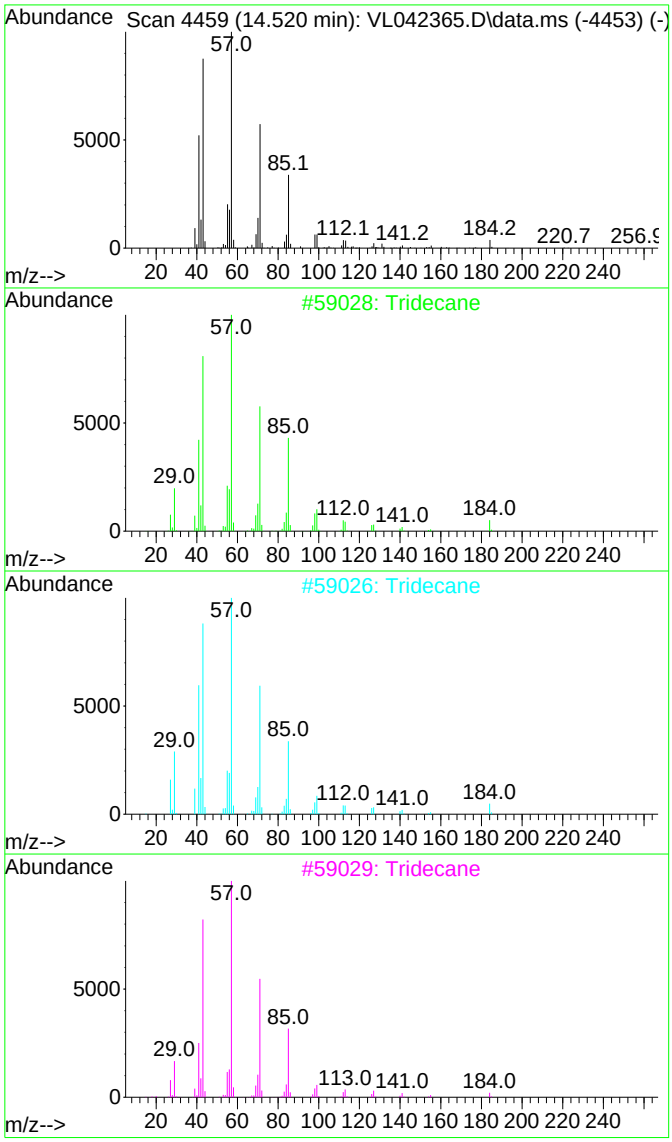
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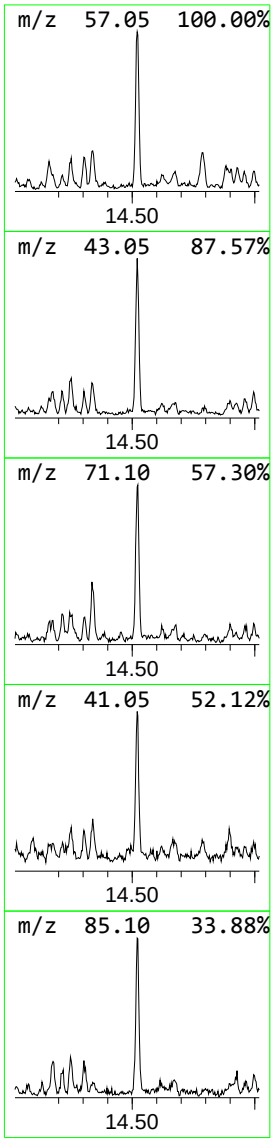
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Peak Number 10 Tridecane Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.520	3.40 ppbv	386516	Chlorobenzene-d5	8.879

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Tridecane	184	C13H28	000629-50-5	95
2	Tridecane	184	C13H28	000629-50-5	94
3	Tridecane	184	C13H28	000629-50-5	94
4	Tridecane	184	C13H28	000629-50-5	90
5	Dodecane	170	C12H26	000112-40-3	90





Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042365.D
Acq On : 17 Apr 2025 19:31
Operator : SY/MD
Sample : Q1668-02
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-2-3252025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Hexane, 3-methyl-	4.266	3.0	ppbv	277896	2	3.959	910647	10.0
Decane	11.753	3.8	ppbv	425736	3	8.879	1135540	10.0
Benzene, 4-ethy...	12.588	3.5	ppbv	392865	3	8.879	1135540	10.0
Undecane	12.827	2.9	ppbv	331834	3	8.879	1135540	10.0
Benzene, 1-ethe...	13.225	2.6	ppbv	295096	3	8.879	1135540	10.0
Naphthalene, 1,...	13.329	2.7	ppbv	307548	3	8.879	1135540	10.0
Benzene, (1-met...	13.659	3.1	ppbv	351962	3	8.879	1135540	10.0
Dodecane	13.724	3.4	ppbv	388375	3	8.879	1135540	10.0
Naphthalene, 1,...	14.232	3.6	ppbv	411559	3	8.879	1135540	10.0
Tridecane	14.520	3.4	ppbv	386516	3	8.879	1135540	10.0

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	Woodard & Curran	Date Collected:	03/26/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	03/27/25
Client Sample ID:	IA-B1-3-3252025	SDG No.:	Q1668
Lab Sample ID:	Q1668-03	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042363.D	1		04/17/25 18:24	VL041725

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.44	2.18	J	1.04	2.47	ug/m3
74-87-3	Chloromethane	0.60	1.24		0.21	1.03	ug/m3
75-01-4	Vinyl Chloride	0.010	0.030	U	0.030	0.080	ug/m3
74-83-9	Bromomethane	0.14	0.54	U	0.54	1.94	ug/m3
75-00-3	Chloroethane	0.17	0.45	U	0.45	1.32	ug/m3
109-99-9	Tetrahydrofuran	0.13	0.38	U	0.38	1.47	ug/m3
75-69-4	Trichlorofluoromethane	0.22	1.24	J	0.90	2.81	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	0.16	1.23	U	1.23	3.83	ug/m3
76-14-2	Dichlorotetrafluoroethane	0.090	0.63	U	0.63	3.49	ug/m3
75-65-0	tert-Butyl alcohol	0.19	0.58	U	0.58	1.52	ug/m3
142-82-5	Heptane	1.50	6.15		0.45	2.05	ug/m3
75-35-4	1,1-Dichloroethene	0.14	0.56	U	0.56	1.98	ug/m3
67-64-1	Acetone	5.20	12.3		0.57	1.19	ug/m3
75-15-0	Carbon Disulfide	0.16	0.50	U	0.50	1.56	ug/m3
1634-04-4	Methyl tert-Butyl Ether	0.12	0.43	U	0.43	1.80	ug/m3
75-09-2	Methylene Chloride	0.82	2.85		0.66	1.74	ug/m3
156-60-5	trans-1,2-Dichloroethene	0.19	0.75	U	0.75	1.98	ug/m3
75-34-3	1,1-Dichloroethane	0.13	0.53	U	0.53	2.02	ug/m3
110-82-7	Cyclohexane	1.70	5.85		0.76	1.72	ug/m3
78-93-3	2-Butanone	0.77	2.27		0.35	1.47	ug/m3
56-23-5	Carbon Tetrachloride	0.070	0.44		0.060	0.19	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.090	0.36	U	0.36	1.98	ug/m3
67-66-3	Chloroform	0.080	0.39	U	0.39	2.44	ug/m3
71-55-6	1,1,1-Trichloroethane	0.010	0.050	U	0.050	0.16	ug/m3
540-84-1	2,2,4-Trimethylpentane	0.16	0.75	J	0.47	2.34	ug/m3
71-43-2	Benzene	0.57	1.82		0.29	1.60	ug/m3
107-06-2	1,2-Dichloroethane	0.090	0.36	U	0.36	2.02	ug/m3
79-01-6	Trichloroethene	0.030	0.16		0.11	0.16	ug/m3
78-87-5	1,2-Dichloropropane	0.11	0.51	U	0.51	2.31	ug/m3
75-27-4	Bromodichloromethane	0.080	0.54	U	0.54	3.35	ug/m3
108-10-1	4-Methyl-2-Pentanone	15.3	62.7	E	0.37	2.05	ug/m3
108-88-3	Toluene	1.40	5.28		0.41	1.88	ug/m3
10061-02-6	t-1,3-Dichloropropene	0.060	0.27	U	0.27	2.27	ug/m3
10061-01-5	cis-1,3-Dichloropropene	0.060	0.27	U	0.27	2.27	ug/m3
79-00-5	1,1,2-Trichloroethane	0.070	0.38	U	0.38	2.73	ug/m3

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	Woodard & Curran	Date Collected:	03/26/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	03/27/25
Client Sample ID:	IA-B1-3-3252025	SDG No.:	Q1668
Lab Sample ID:	Q1668-03	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042363.D	1		04/17/25 18:24	VL041725

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	0.070	0.60	U	0.60	4.26	ug/m3
106-93-4	1,2-Dibromoethane	0.070	0.54	U	0.54	0.77	ug/m3
127-18-4	Tetrachloroethene	0.050	0.34		0.14	0.20	ug/m3
108-90-7	Chlorobenzene	0.080	0.37	U	0.37	2.30	ug/m3
100-41-4	Ethyl Benzene	1.10	4.78		0.52	2.17	ug/m3
179601-23-1	m/p-Xylene	7.70	33.5		0.91	4.34	ug/m3
95-47-6	o-Xylene	2.60	11.3		0.52	2.17	ug/m3
100-42-5	Styrene	0.79	3.36		0.47	2.13	ug/m3
75-25-2	Bromoform	0.060	0.62	U	0.62	5.17	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	0.010	0.070	U	0.070	0.21	ug/m3
95-49-8	2-Chlorotoluene	0.11	0.57	U	0.57	2.59	ug/m3
108-67-8	1,3,5-Trimethylbenzene	1.70	8.36		0.54	2.46	ug/m3
95-63-6	1,2,4-Trimethylbenzene	5.20	25.6		0.39	2.46	ug/m3
541-73-1	1,3-Dichlorobenzene	0.080	0.48	U	0.48	3.01	ug/m3
106-46-7	1,4-Dichlorobenzene	0.050	0.30	U	0.30	3.01	ug/m3
95-50-1	1,2-Dichlorobenzene	0.080	0.48	U	0.48	3.01	ug/m3
120-82-1	1,2,4-Trichlorobenzene	0.090	0.67	U	0.67	3.71	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	0.090	0.96	U	0.96	5.33	ug/m3
106-99-0	1,3-Butadiene	0.13	0.29	U	0.29	1.11	ug/m3
91-20-3	Naphthalene	0.47	2.46		0.42	0.52	ug/m3
622-96-8	4-Ethyltoluene	1.40	6.88		0.59	2.46	ug/m3
110-54-3	Hexane	2.40	8.46		0.39	1.76	ug/m3
107-05-1	Allyl Chloride	0.15	0.47	U	0.47	1.57	ug/m3
123-91-1	1,4-Dioxane	0.21	0.76	U	0.76	1.80	ug/m3
80-62-6	Methyl Methacrylate	0.090	0.37	U	0.37	2.05	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	9.90			70 (65) - 130 (135)	99%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	118000		2.787			
540-36-3	1,4-Difluorobenzene	342000		3.959			
3114-55-4	Chlorobenzene-d5	304000		8.882			
TENTITIVE IDENTIFIED COMPOUNDS							
75-45-6	Chlorodifluoromethane	0.26		J		1.48	ppbv
115-07-1	Propene	0.56		J		1.49	ppbv
64-17-5	Ethanol	180		J		1.72	ppbv

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Report of Analysis

Client:	Woodard & Curran	Date Collected:	03/26/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	03/27/25
Client Sample ID:	IA-B1-3-3252025	SDG No.:	Q1668
Lab Sample ID:	Q1668-03	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042363.D	1		04/17/25 18:24	VL041725

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
67-63-0	Isopropyl Alcohol	2.60		J		1.89	ppbv
000108-08-7	Pentane, 2,4-dimethyl-	2.40		J		4.05	ppbv
000589-34-4	Hexane, 3-methyl-	3.10		J		4.27	ppbv
000108-94-1	Cyclohexanone	3.00		J		9.63	ppbv
003221-61-2	Octane, 2-methyl-	2.10		J		9.73	ppbv
98-82-8	Isopropylbenzene	0.16		J		10.5	ppbv
103-65-1	n-propylbenzene	0.62		J		11.0	ppbv
000124-18-5	Decane	3.60		J		11.8	ppbv
99-87-6	p-Isopropyltoluene	0.12		J		11.9	ppbv
001074-43-7	Benzene, 1-methyl-3-propyl-	1.90		J		12.2	ppbv
104-51-8	n-Butylbenzene	0.45		J		12.3	ppbv
002870-04-4	Benzene, 2-ethyl-1,3-dimethyl-	2.70		J		12.6	ppbv
001120-21-4	Undecane	2.30		J		12.8	ppbv
000119-64-2	Naphthalene, 1,2,3,4-tetrahydro-	1.90		J		13.3	ppbv
000112-40-3	Dodecane	2.10		J		13.7	ppbv
91-57-6	Naphthalene,2-methyl-	0.32		J		14.5	ppbv

U = Not Detected
RL = Reporting Limit
MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Quantitation Report (LSC Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042363.D
Acq On : 17 Apr 2025 18:24
Operator : SY/MD
Sample : Q1668-03
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 18 02:40:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-3-3252025

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.787	49	117934	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.959	114	342044	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.882	117	304398	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.374	95	248134	9.920	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 99.200%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.499	85	9160	0.440	ppbv		95
3) Chlorodifluoromethane	1.476	51	5081m	0.256	ppbv		
4) Chloromethane	1.531	50	4904	0.595	ppbv	#	87
9) Propene	1.486	41	5102	0.565	ppbv		84
10) Heptane	4.981	43	38916	1.533	ppbv		97
11) Trichlorofluoromethane	1.874	101	4391	0.222	ppbv		92
13) Ethanol	1.719	45	261942	182.383	ppbv		74
15) Acetone	1.835	43	99681	5.163	ppbv		92
19) Isopropyl Alcohol	1.887	45	27920	2.603	ppbv	#	36
20) Methylene Chloride	2.062	84	6217	0.822	ppbv		98
26) Hexane	2.826	57	45627	2.369	ppbv	#	32
30) Cyclohexane	3.852	84	26838m	1.723	ppbv		
34) 2-Butanone	2.557	43	20715	0.766	ppbv		98
35) Carbon Tetrachloride	3.761	117	2300m	0.074	ppbv		
36) Benzene	3.654	78	20999	0.569	ppbv	#	93
38) Trichloroethene	4.541	130	532m	0.033	ppbv		
44) 2,2,4-Trimethylpentane	4.638	57	10318m	0.162	ppbv		
50) 4-Methyl-2-Pentanone	5.748	43	689390	15.336	ppbv		98
52) Tetrachloroethene	8.221	164	722m	0.051	ppbv		
53) Toluene	6.936	91	63791	1.441	ppbv		100
58) Ethyl Benzene	9.351	91	69152	1.147	ppbv		94
59) m/p-Xylene	9.529	91	373837	7.695	ppbv		99
60) o-Xylene	9.966	91	127919	2.615	ppbv		99
61) Styrene	9.869	104	18463	0.791	ppbv		98
62) Isopropylbenzene	10.539	105	11682	0.163	ppbv		98
64) n-propylbenzene	10.985	120	11193m	0.620	ppbv		
69) p-Isopropyltoluene	11.924	119	9270	0.116	ppbv		97
70) n-Butylbenzene	12.283	91	37242m	0.448	ppbv		
72) 4-Ethyltoluene	11.124	105	83127	1.390	ppbv	#	56
73) 1,3,5-Trimethylbenzene	11.202	105	91013	1.724	ppbv		97
74) 1,2,4-Trimethylbenzene	11.536	105	321031	5.205	ppbv	#	64
79) Naphthalene	13.513	128	34268	0.465	ppbv		97
80) Naphthalene,2-methyl-	14.458	142	13508m	0.321	ppbv		

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

Quantitation Report (LSC Reviewed)

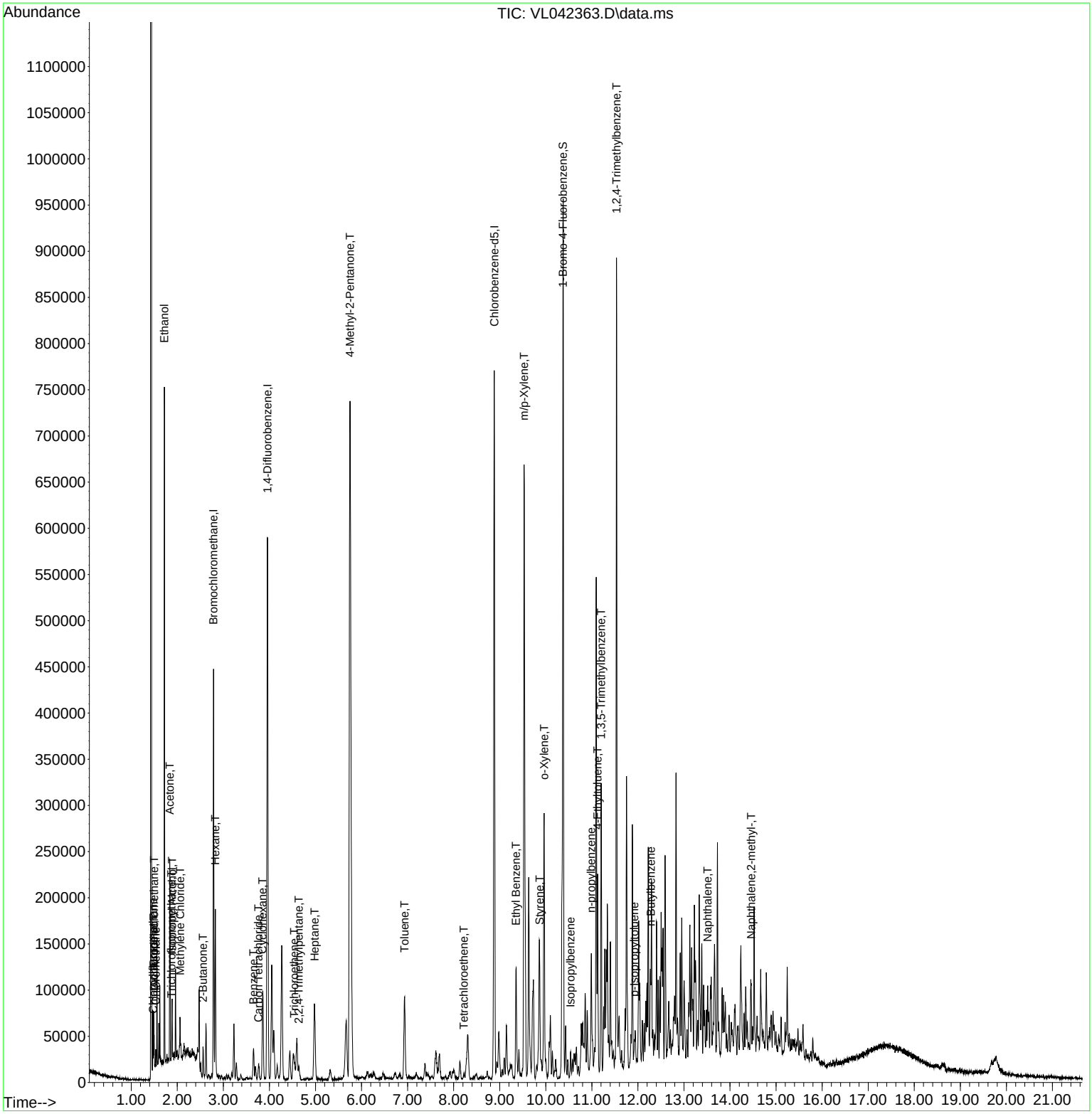
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042363.D
Acq On : 17 Apr 2025 18:24
Operator : SY/MD
Sample : Q1668-03
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

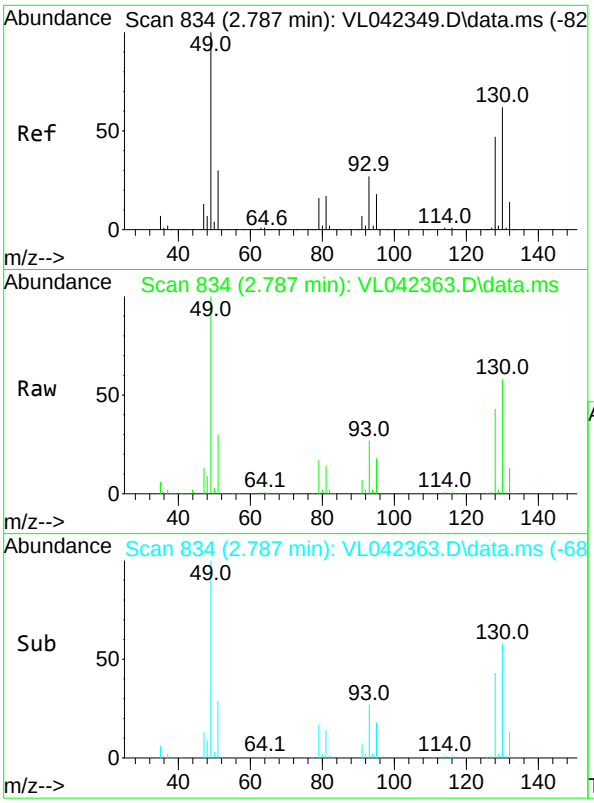
Quant Time: Apr 18 02:40:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-3-3252025

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

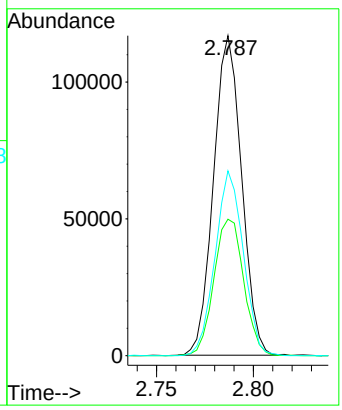




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL042363.D
Acq: 17 Apr 2025 18:24

Tgt Ion: 49 Resp: 11793

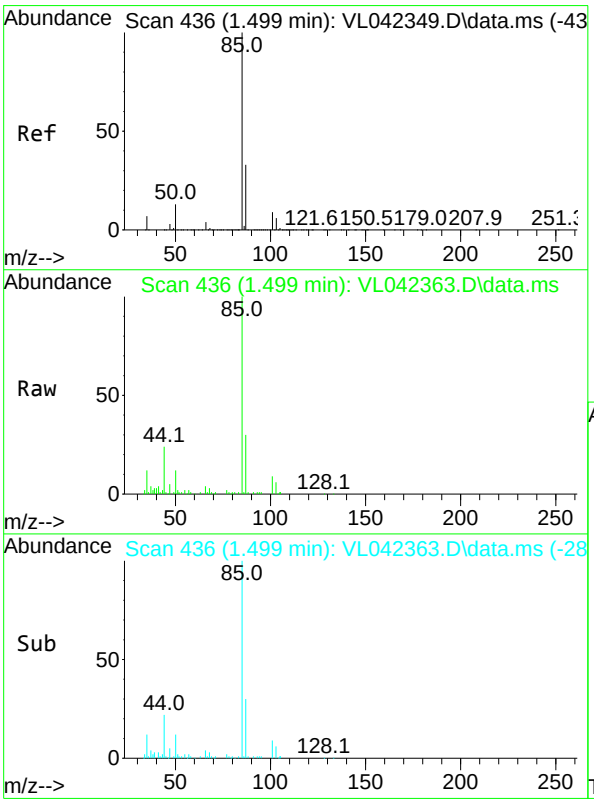
Ion	Ratio	Lower	Upper
49	100		
128	45.4	22.8	68.4
130	58.0	29.3	88.0



Instrument :
MSVOA_L
ClientSampleId :
IA-B1-3-3252025

Manual Integrations
APPROVED

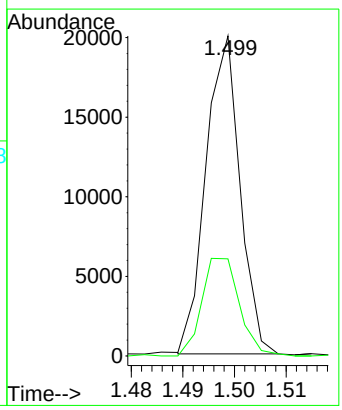
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

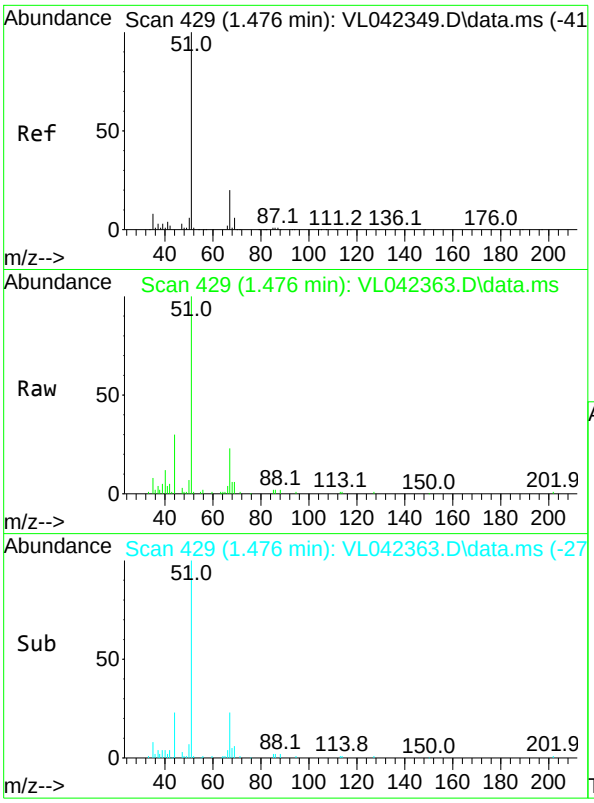


#2
Dichlorodifluoromethane
Concen: 0.440 ppbv
RT: 1.499 min Scan# 436
Delta R.T. -0.000 min
Lab File: VL042363.D
Acq: 17 Apr 2025 18:24

Tgt Ion: 85 Resp: 9160

Ion	Ratio	Lower	Upper
85	100		
87	30.5	26.6	39.8





#3
Chlorodifluoromethane
Concen: 0.256 ppbv m
RT: 1.476 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042363.D
Acq: 17 Apr 2025 18:24

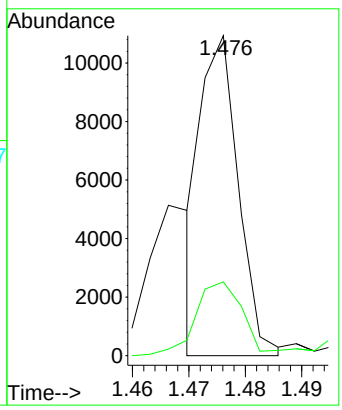
Tgt Ion: 51 Resp: 508

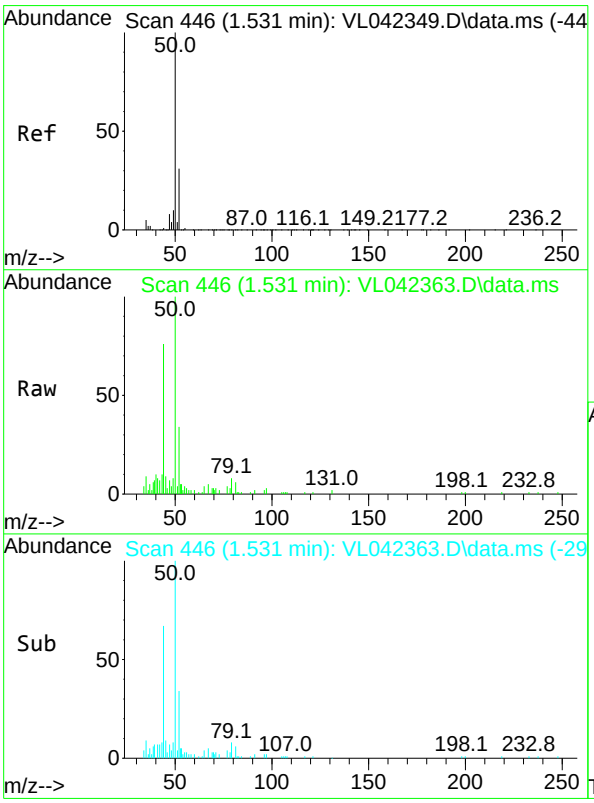
Ion	Ratio	Lower	Upper
51	100		
67	32.0	16.2	24.4#

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-3-3252025

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

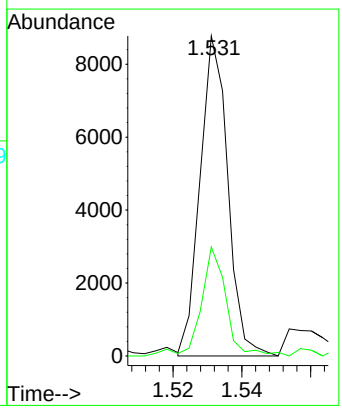


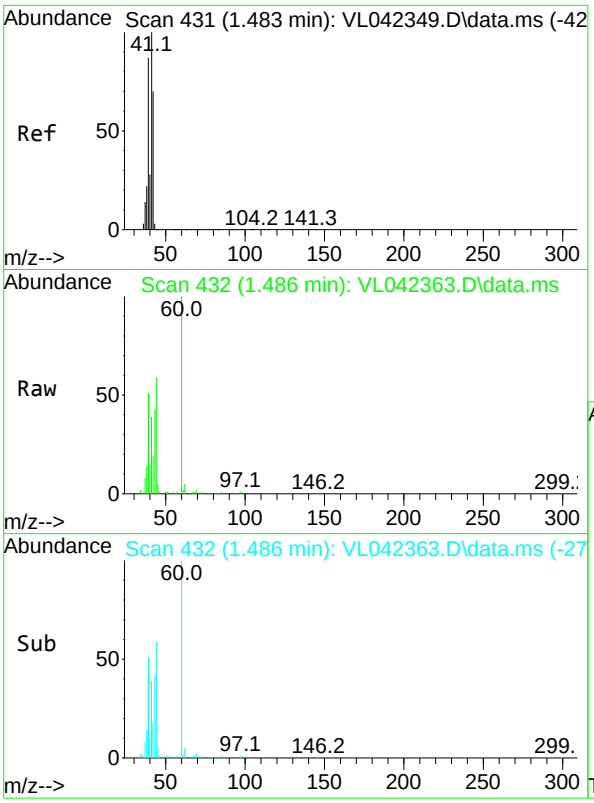


#4
Chloromethane
Concen: 0.595 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042363.D
Acq: 17 Apr 2025 18:24

Tgt Ion: 50 Resp: 4904

Ion	Ratio	Lower	Upper
50	100		
52	37.8	24.7	37.1#

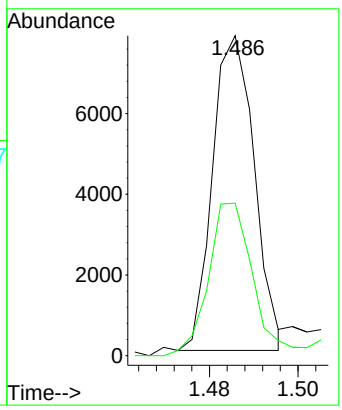




#9
Propene
Concen: 0.565 ppbv
RT: 1.486 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL042363.D
Acq: 17 Apr 2025 18:24

Tgt Ion: 41 Resp: 510

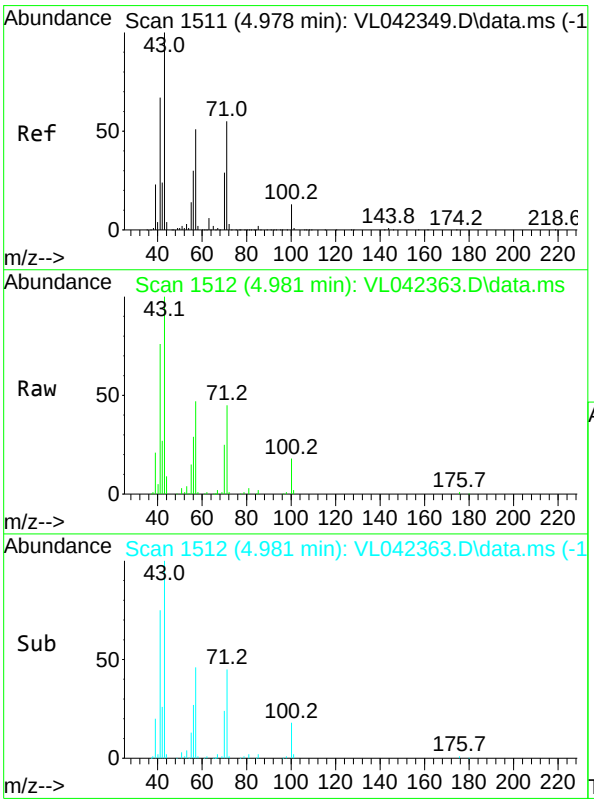
Ion	Ratio	Lower	Upper
41	100		
42	57.3	56.2	84.4



Instrument :
MSVOA_L
ClientSampleId :
IA-B1-3-3252025

Manual Integrations
APPROVED

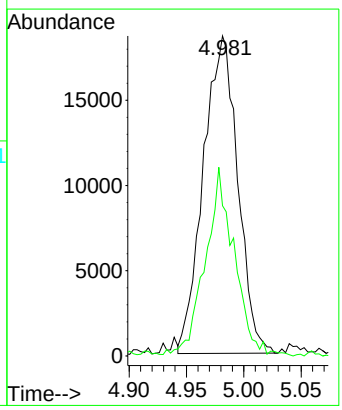
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

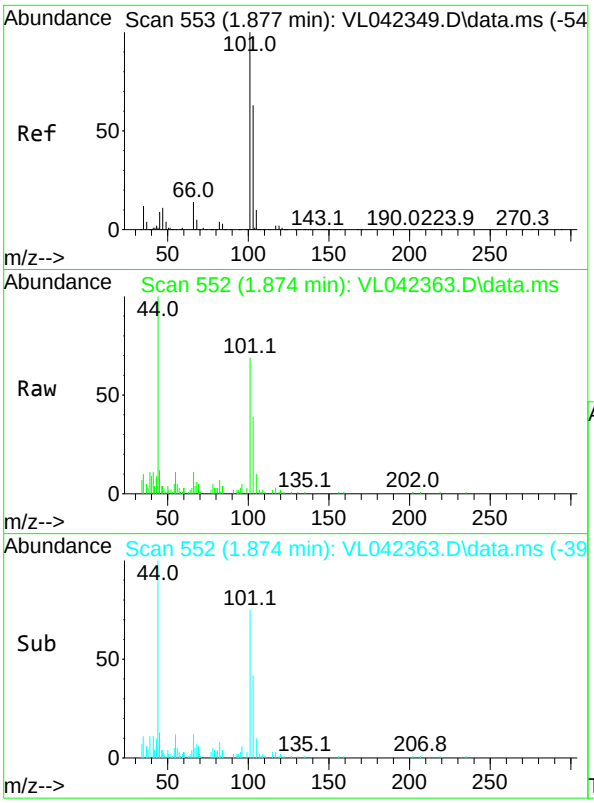


#10
Heptane
Concen: 1.533 ppbv
RT: 4.981 min Scan# 1512
Delta R.T. 0.003 min
Lab File: VL042363.D
Acq: 17 Apr 2025 18:24

Tgt Ion: 43 Resp: 38916

Ion	Ratio	Lower	Upper
43	100		
57	51.7	39.9	59.9

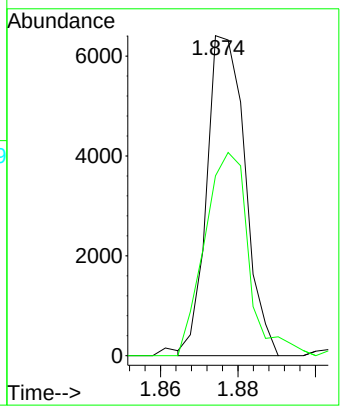




#11
Trichlorofluoromethane
Concen: 0.222 ppbv
RT: 1.874 min Scan# 5
Delta R.T. -0.003 min
Lab File: VL042363.D
Acq: 17 Apr 2025 18:24

Tgt Ion:101 Resp: 439

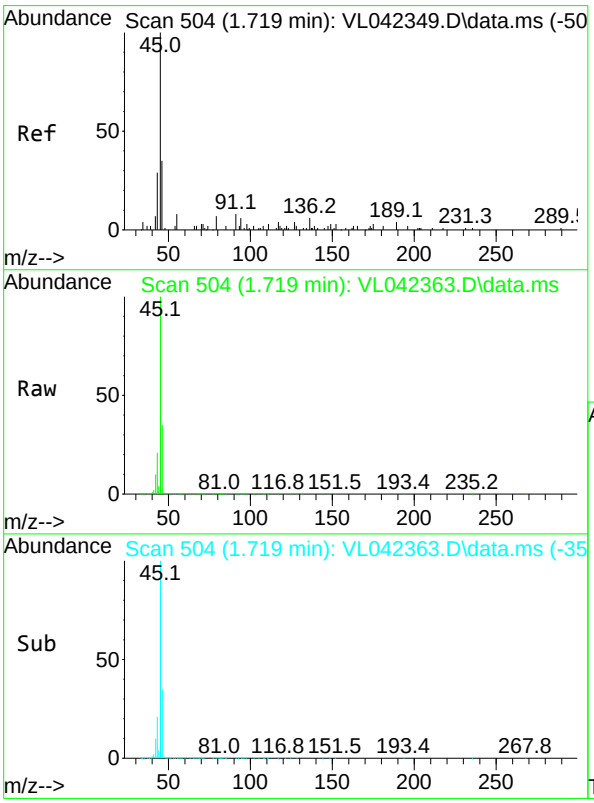
Ion	Ratio	Lower	Upper
101	100		
103	56.2	50.1	75.1



Instrument :
MSVOA_L
ClientSampleId :
IA-B1-3-3252025

Manual Integrations
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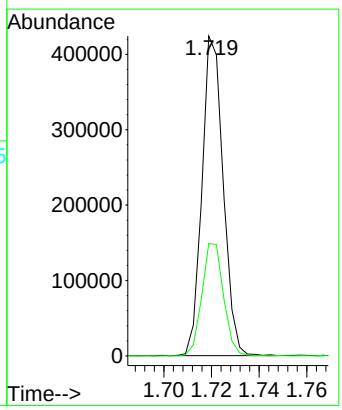
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

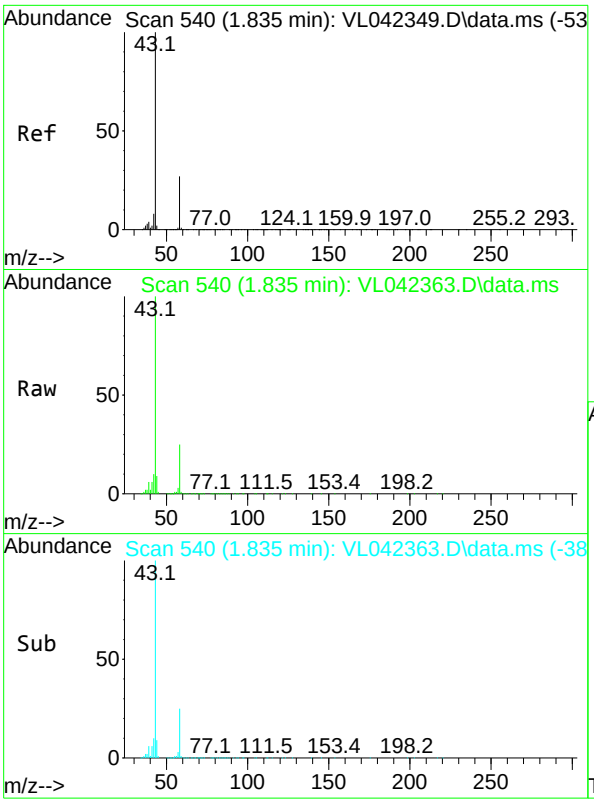


#13
Ethanol
Concen: 182.383 ppbv
RT: 1.719 min Scan# 504
Delta R.T. -0.000 min
Lab File: VL042363.D
Acq: 17 Apr 2025 18:24

Tgt Ion: 45 Resp: 261942

Ion	Ratio	Lower	Upper
45	100		
46	36.2	21.9	87.7





#15
Acetone
Concen: 5.163 ppbv
RT: 1.835 min Scan# 54
Delta R.T. -0.000 min
Lab File: VL042363.D
Acq: 17 Apr 2025 18:24

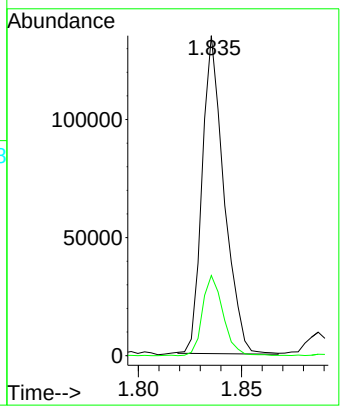
Tgt Ion: 43 Resp: 9968

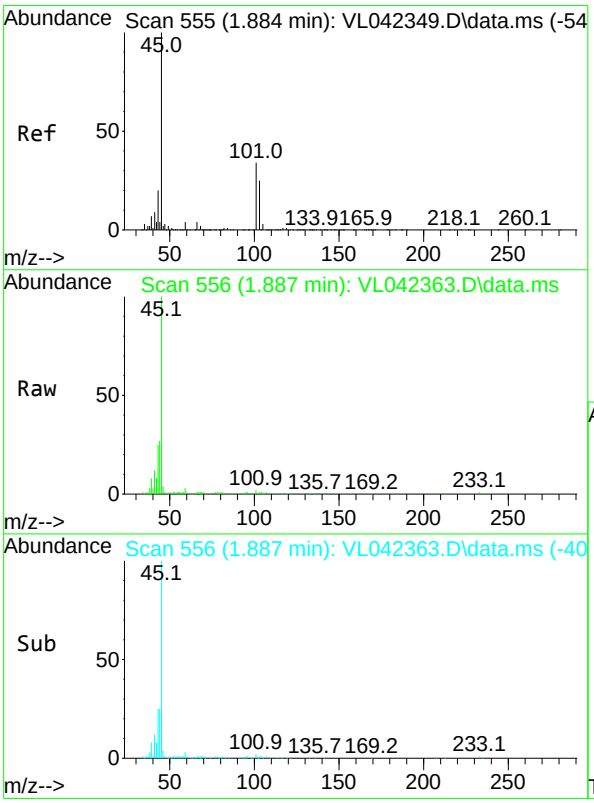
Ion	Ratio	Lower	Upper
43	100		
58	23.6	22.4	33.6

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-3-3252025

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

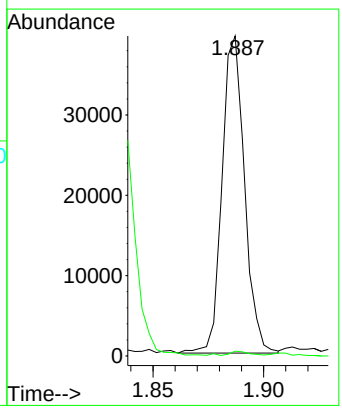


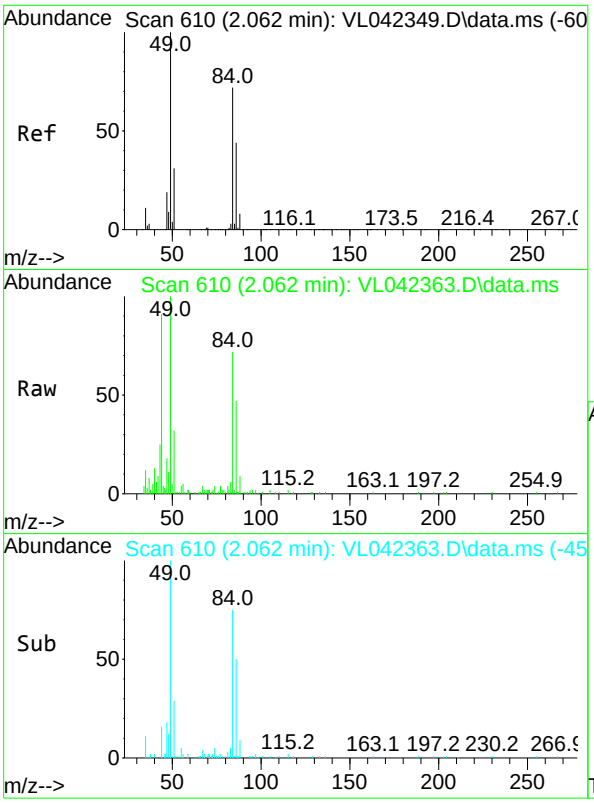


#19
Isopropyl Alcohol
Concen: 2.603 ppbv
RT: 1.887 min Scan# 556
Delta R.T. 0.003 min
Lab File: VL042363.D
Acq: 17 Apr 2025 18:24

Tgt Ion: 45 Resp: 27920

Ion	Ratio	Lower	Upper
45	100		
58	84.1	34.5	51.7#

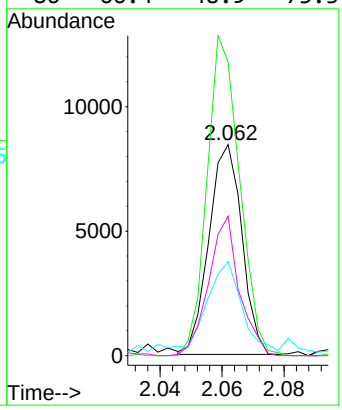




#20
Methylene Chloride
Concen: 0.822 ppbv
RT: 2.062 min Scan# 61
Delta R.T. -0.000 min
Lab File: VL042363.D
Acq: 17 Apr 2025 18:24

Tgt Ion: 84 Resp: 621

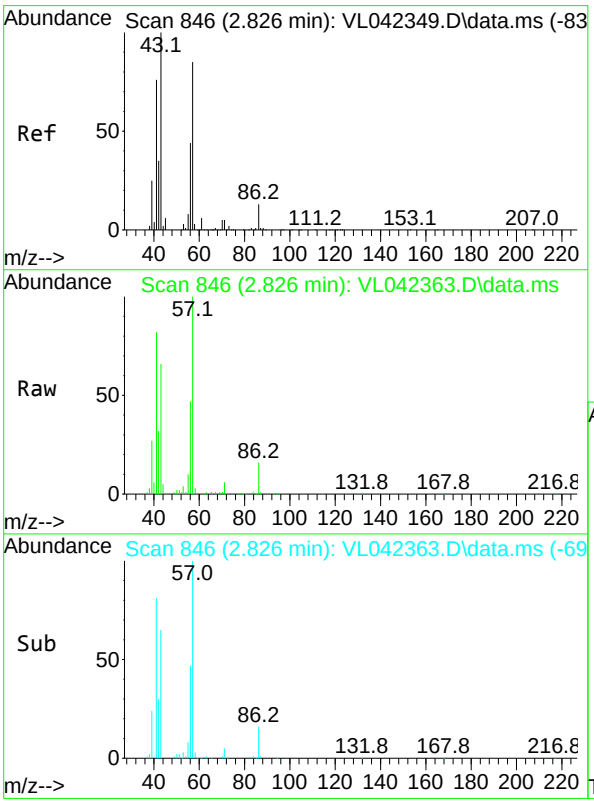
Ion	Ratio	Lower	Upper
84	100		
49	139.8	111.6	167.4
51	42.4	35.1	52.7
86	66.4	48.9	73.3



Instrument :
MSVOA_L
ClientSampleId :
IA-B1-3-3252025

Manual Integrations
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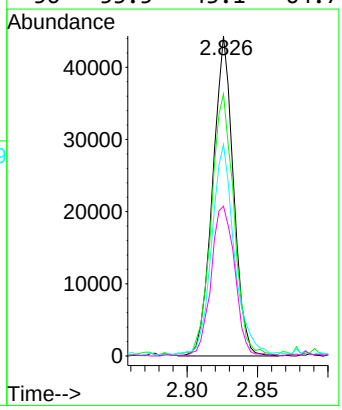
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

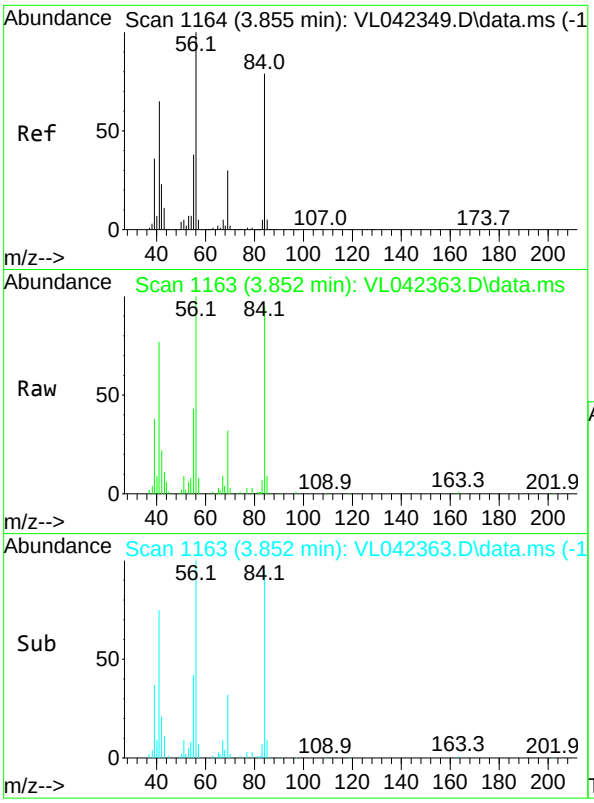


#26
Hexane
Concen: 2.369 ppbv
RT: 2.826 min Scan# 846
Delta R.T. -0.000 min
Lab File: VL042363.D
Acq: 17 Apr 2025 18:24

Tgt Ion: 57 Resp: 45627

Ion	Ratio	Lower	Upper
57	100		
41	87.3	77.9	116.9
43	74.0	208.4	312.6#
56	53.5	43.1	64.7

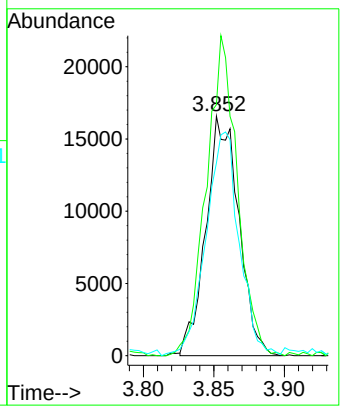




#30
Cyclohexane
Concen: 1.723 ppbv m
RT: 3.852 min Scan# 1
Delta R.T. -0.003 min
Lab File: VL042363.D
Acq: 17 Apr 2025 18:24

Tgt Ion: 84 Resp: 2683

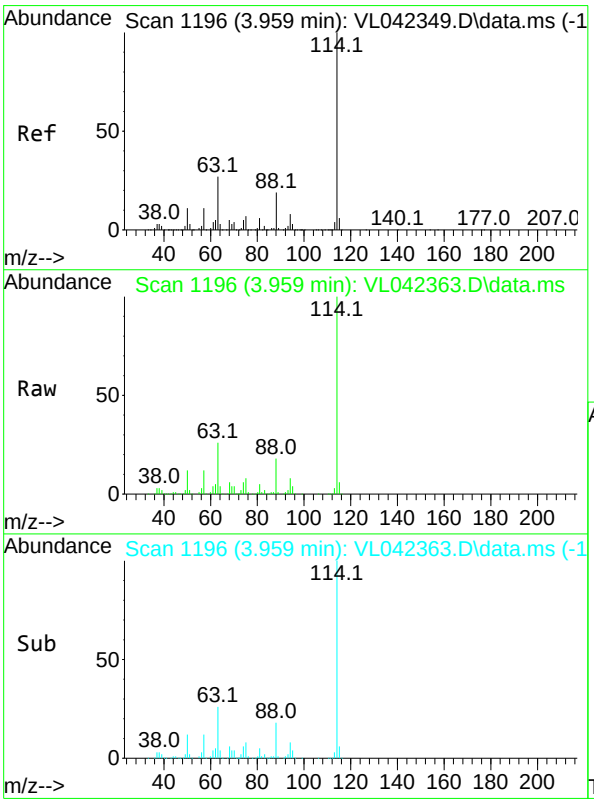
Ion	Ratio	Lower	Upper
84	100		
56	0.0	101.0	151.4#
41	0.0	67.4	101.0#



Instrument :
MSVOA_L
ClientSampleId :
IA-B1-3-3252025

Manual Integrations
APPROVED

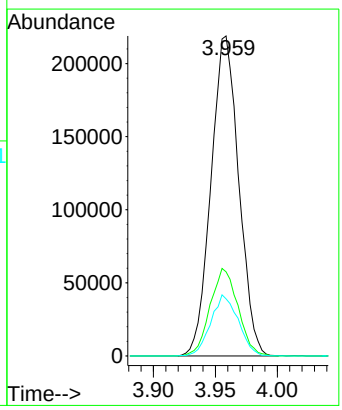
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

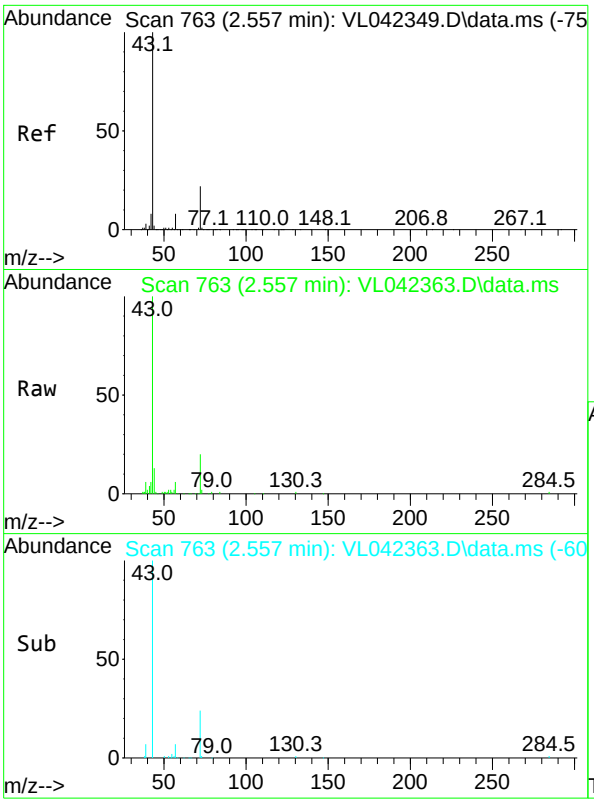


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.959 min Scan# 1196
Delta R.T. -0.000 min
Lab File: VL042363.D
Acq: 17 Apr 2025 18:24

Tgt Ion:114 Resp: 342044

Ion	Ratio	Lower	Upper
114	100		
63	27.4	21.8	32.6
88	18.9	15.5	23.3

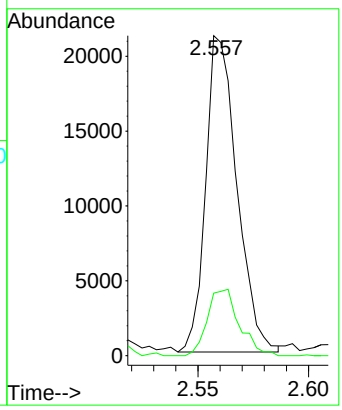




#34
2-Butanone
Concen: 0.766 ppbv
RT: 2.557 min Scan# 7
Delta R.T. -0.000 min
Lab File: VL042363.D
Acq: 17 Apr 2025 18:24

Tgt Ion: 43 Resp: 2071

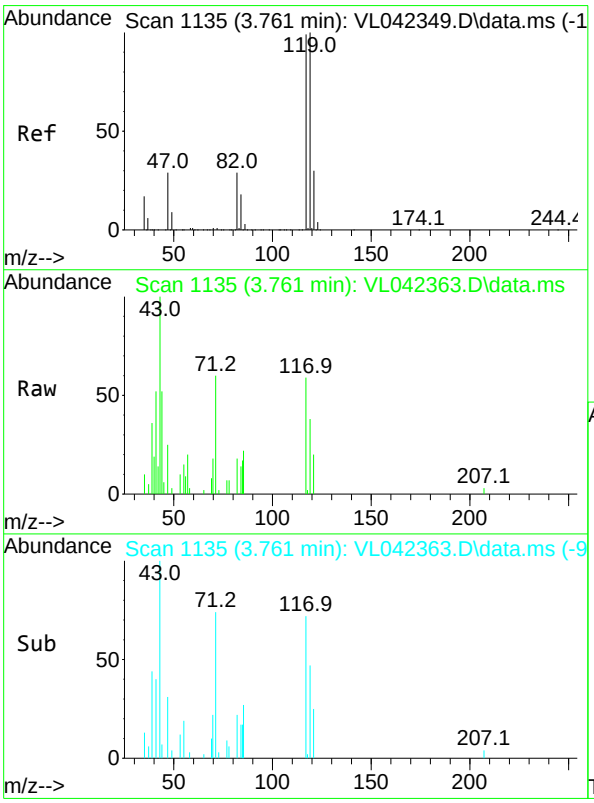
Ion	Ratio	Lower	Upper
43	100		
72	21.5	18.2	27.2



Instrument :
MSVOA_L
ClientSampleId :
IA-B1-3-3252025

Manual Integrations
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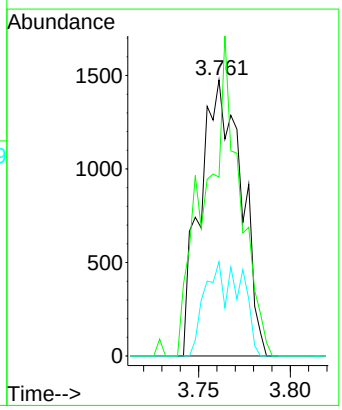
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

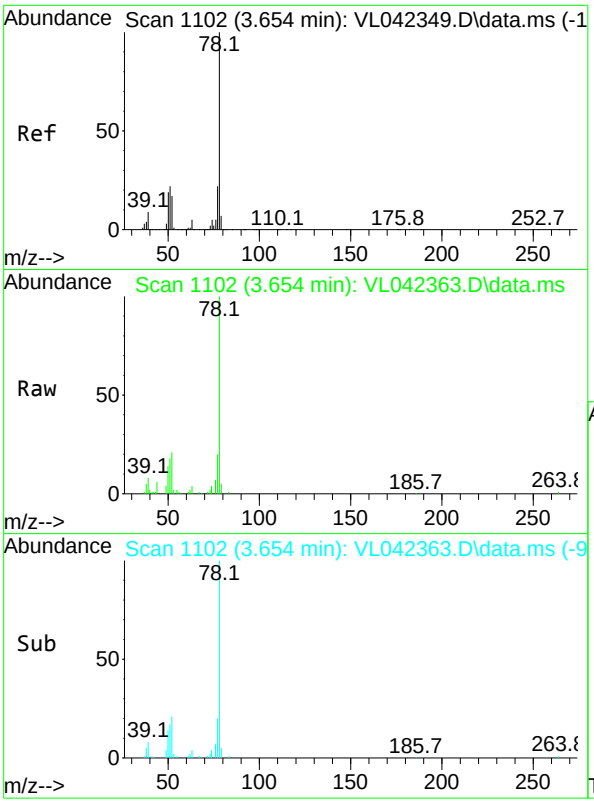


#35
Carbon Tetrachloride
Concen: 0.074 ppbv m
RT: 3.761 min Scan# 1135
Delta R.T. -0.000 min
Lab File: VL042363.D
Acq: 17 Apr 2025 18:24

Tgt Ion:117 Resp: 2300

Ion	Ratio	Lower	Upper
117	100		
119	64.8	80.5	120.7#
121	34.1	24.2	36.2

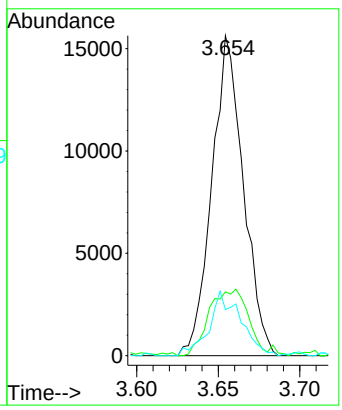




#36
Benzene
Concen: 0.569 ppbv
RT: 3.654 min Scan# 1
Delta R.T. -0.000 min
Lab File: VL042363.D
Acq: 17 Apr 2025 18:24

Tgt Ion: 78 Resp: 2099

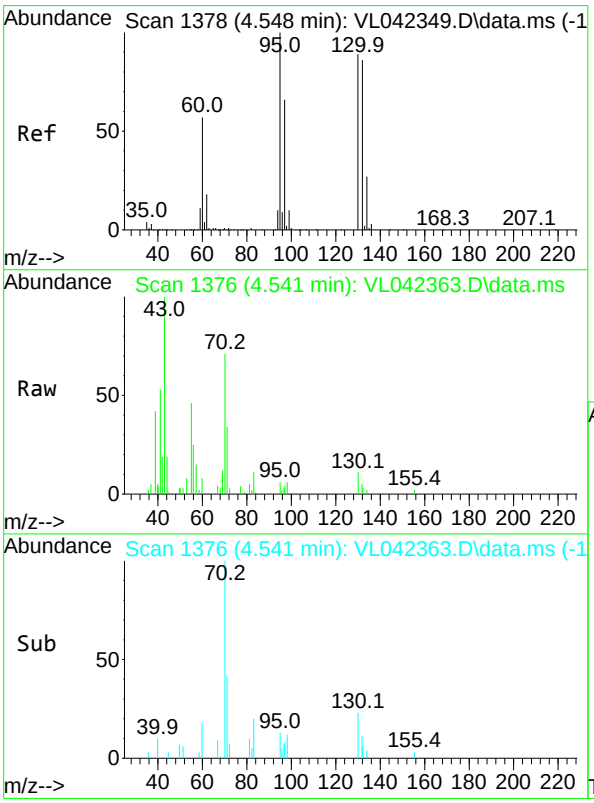
Ion	Ratio	Lower	Upper
78	100		
77	20.0	17.4	26.0
50	14.4	15.5	23.3#



Instrument :
MSVOA_L
ClientSampleId :
IA-B1-3-3252025

Manual Integrations
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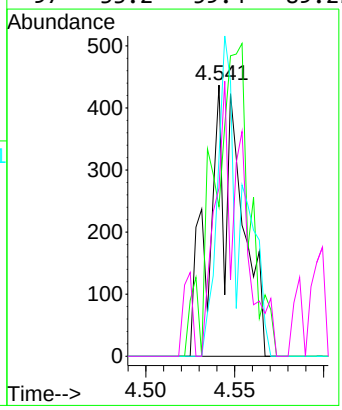
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

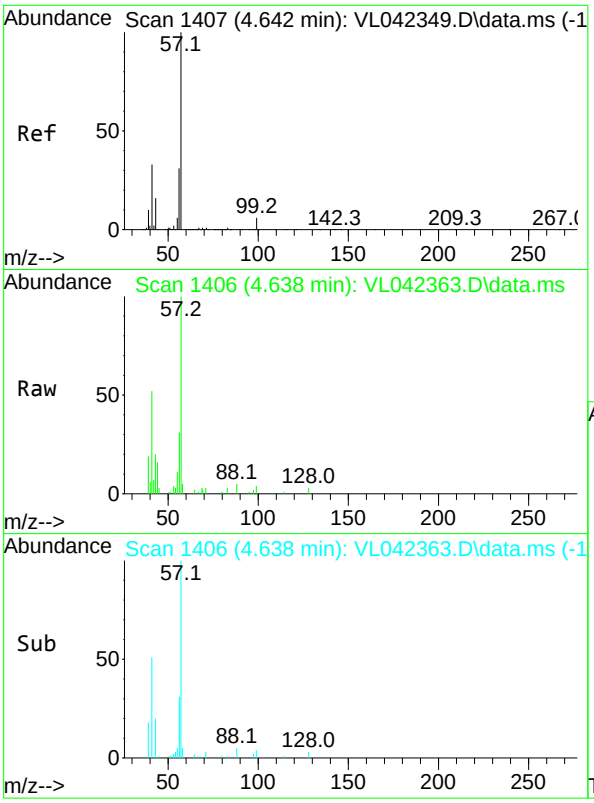


#38
Trichloroethene
Concen: 0.033 ppbv m
RT: 4.541 min Scan# 1376
Delta R.T. -0.006 min
Lab File: VL042363.D
Acq: 17 Apr 2025 18:24

Tgt Ion:130 Resp: 532

Ion	Ratio	Lower	Upper
130	100		
95	55.1	89.8	134.6#
132	45.8	77.7	116.5#
97	33.2	59.4	89.2#

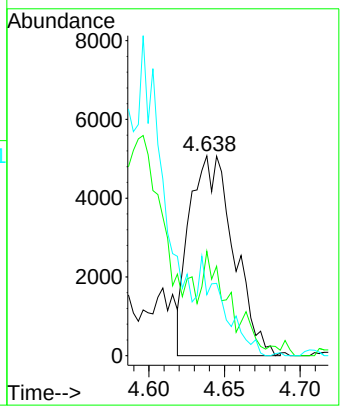




#44
2,2,4-Trimethylpentane
Concen: 0.162 ppbv m
RT: 4.638 min Scan# 14
Delta R.T. -0.003 min
Lab File: VL042363.D
Acq: 17 Apr 2025 18:24

Tgt Ion: 57 Resp: 1031

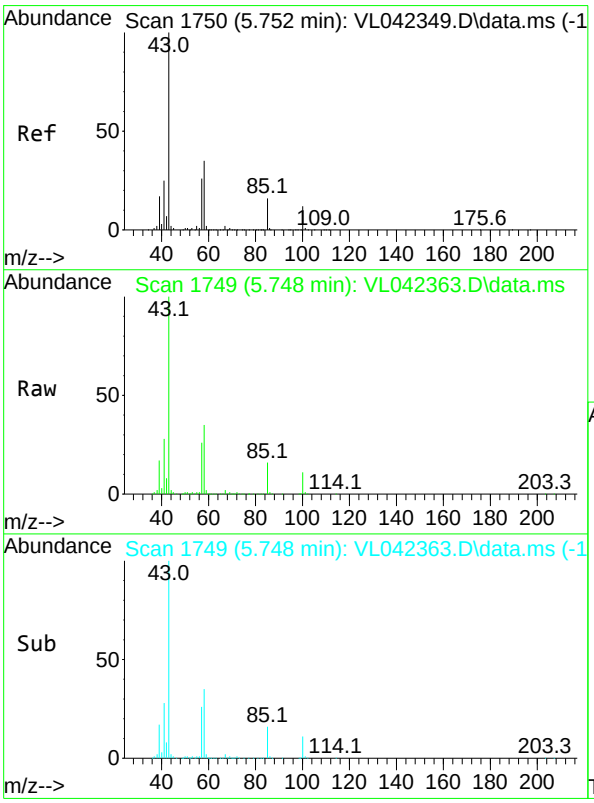
Ion	Ratio	Lower	Upper
57	100		
41	0.0	27.2	40.8#
56	0.0	25.7	38.5#



Instrument :
MSVOA_L
ClientSampleId :
IA-B1-3-3252025

Manual Integrations
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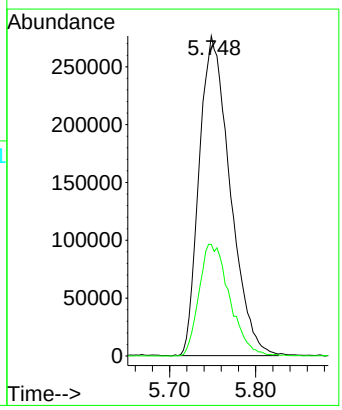
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

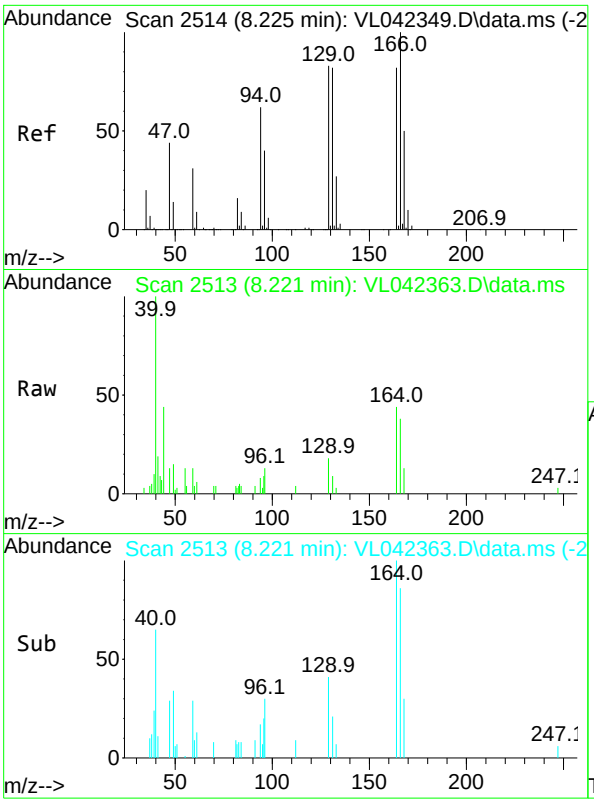


#50
4-Methyl-2-Pentanone
Concen: 15.336 ppbv
RT: 5.748 min Scan# 1749
Delta R.T. -0.003 min
Lab File: VL042363.D
Acq: 17 Apr 2025 18:24

Tgt Ion: 43 Resp: 689390

Ion	Ratio	Lower	Upper
43	100		
58	34.7	28.6	43.0

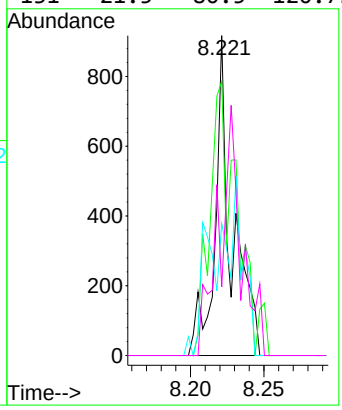




#52
Tetrachloroethene
Concen: 0.051 ppbv m
RT: 8.221 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL042363.D
Acq: 17 Apr 2025 18:24

Tgt Ion:164 Resp: 72

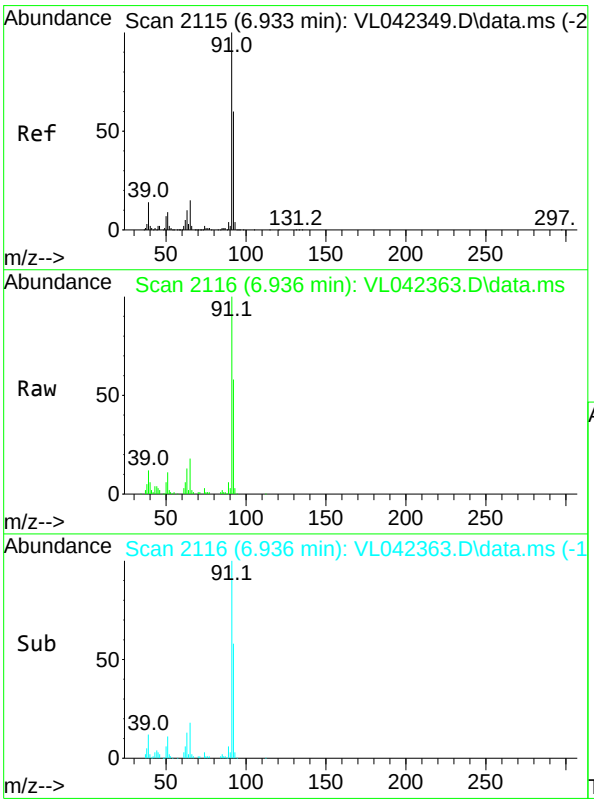
Ion	Ratio	Lower	Upper
164	100		
166	85.7	98.2	147.2#
129	41.2	81.8	122.8#
131	21.5	80.5	120.7#



Instrument :
MSVOA_L
ClientSampleId :
IA-B1-3-3252025

Manual Integrations
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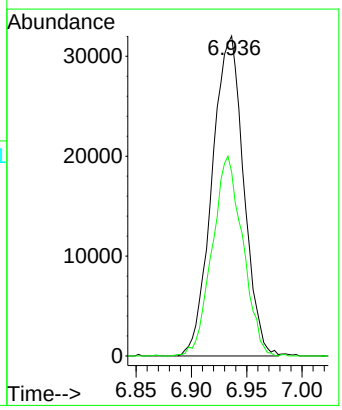
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

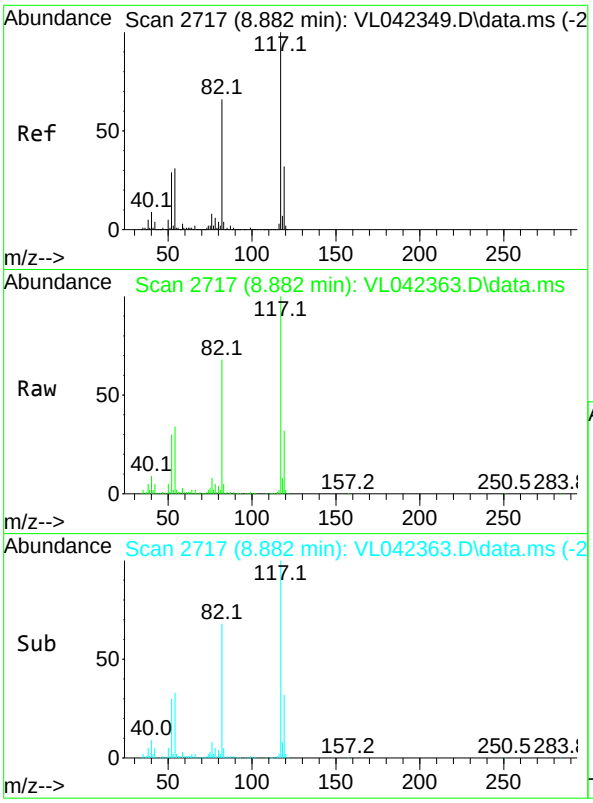


#53
Toluene
Concen: 1.441 ppbv
RT: 6.936 min Scan# 2116
Delta R.T. 0.003 min
Lab File: VL042363.D
Acq: 17 Apr 2025 18:24

Tgt Ion: 91 Resp: 63791

Ion	Ratio	Lower	Upper
91	100		
92	60.3	48.2	72.4

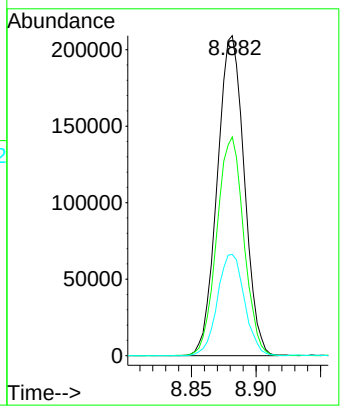




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.882 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL042363.D
Acq: 17 Apr 2025 18:24

Tgt Ion:117 Resp: 30439

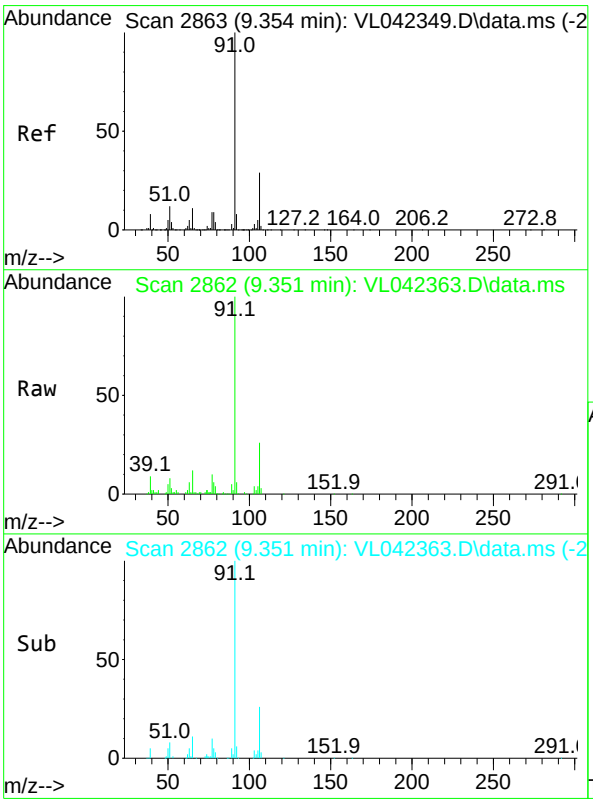
Ion	Ratio	Lower	Upper
117	100		
82	68.4	57.8	86.6
119	31.9	25.2	37.8



Instrument :
MSVOA_L
ClientSampleId :
IA-B1-3-3252025

Manual Integrations
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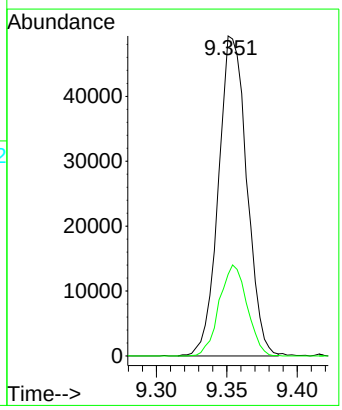
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

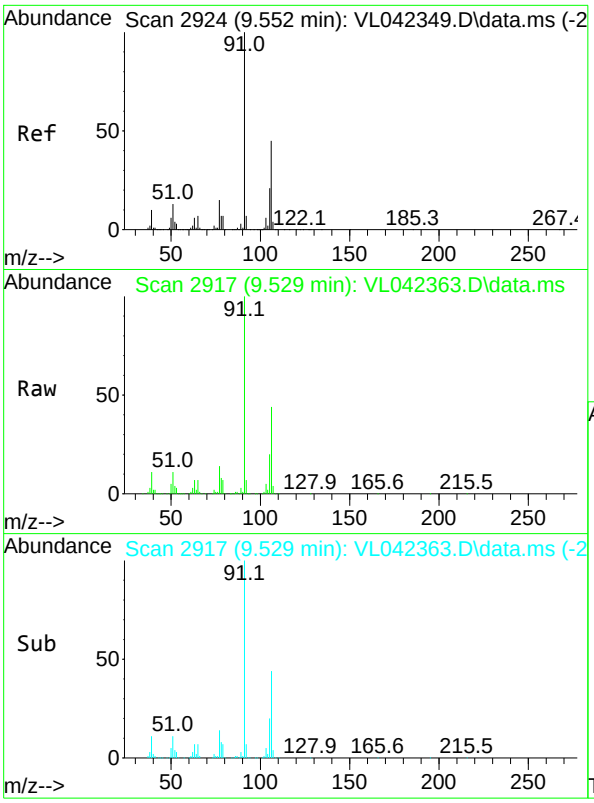


#58
Ethyl Benzene
Concen: 1.147 ppbv
RT: 9.351 min Scan# 2862
Delta R.T. -0.003 min
Lab File: VL042363.D
Acq: 17 Apr 2025 18:24

Tgt Ion: 91 Resp: 69152

Ion	Ratio	Lower	Upper
91	100		
106	25.5	23.0	34.4

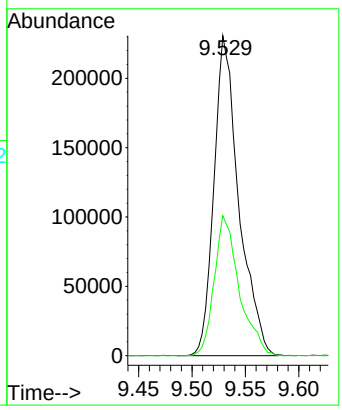




#59
m/p-Xylene
Concen: 7.695 ppbv
RT: 9.529 min Scan# 2
Delta R.T. -0.023 min
Lab File: VL042363.D
Acq: 17 Apr 2025 18:24

Tgt Ion: 91 Resp: 37383

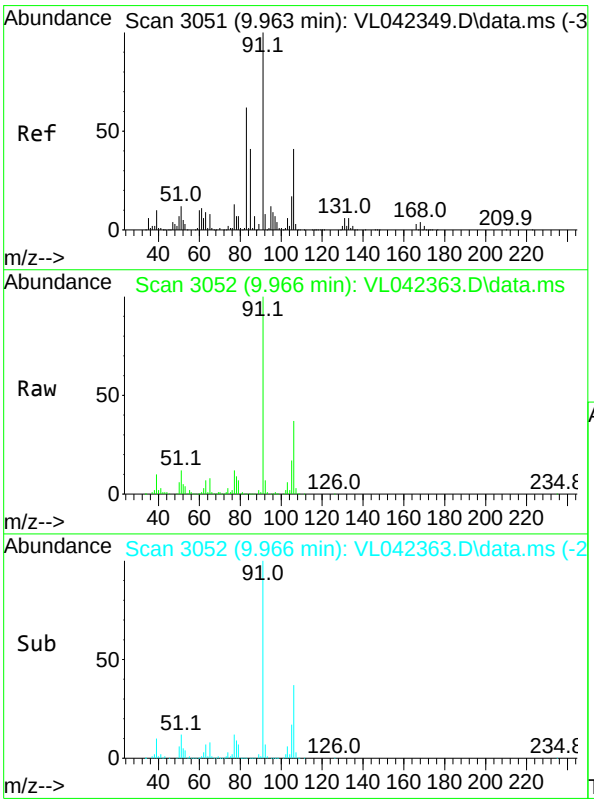
Ion	Ratio	Lower	Upper
91	100		
106	44.0	35.4	53.2



Instrument :
MSVOA_L
ClientSampleId :
IA-B1-3-3252025

Manual Integrations
APPROVED

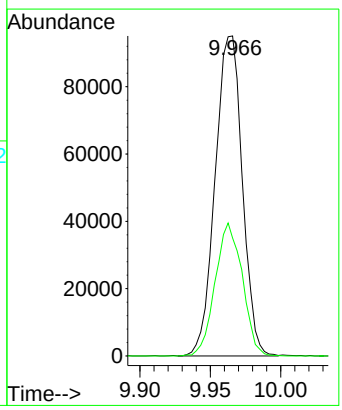
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

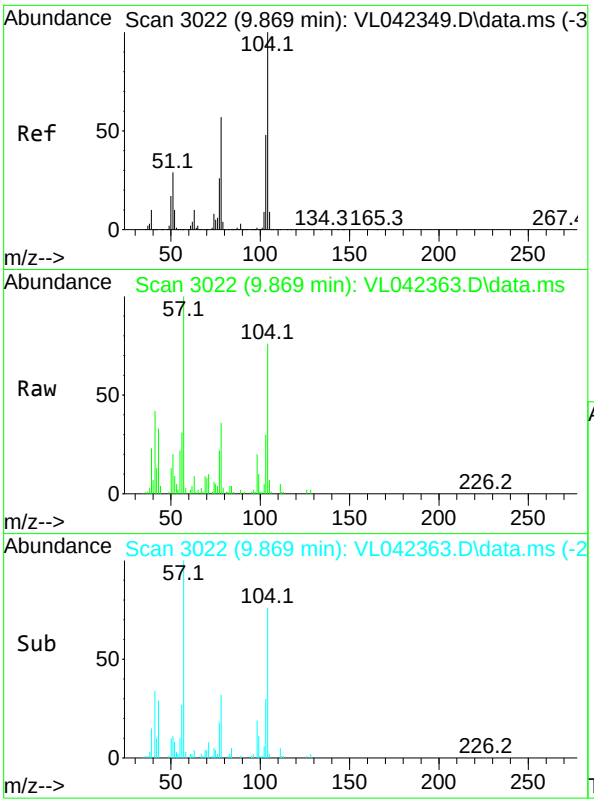


#60
o-Xylene
Concen: 2.615 ppbv
RT: 9.966 min Scan# 3052
Delta R.T. 0.003 min
Lab File: VL042363.D
Acq: 17 Apr 2025 18:24

Tgt Ion: 91 Resp: 127919

Ion	Ratio	Lower	Upper
91	100		
106	41.4	21.1	63.4

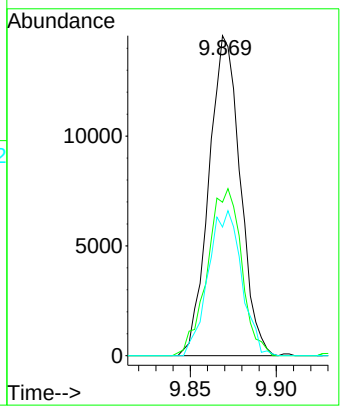




#61
Styrene
Concen: 0.791 ppbv
RT: 9.869 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042363.D
Acq: 17 Apr 2025 18:24

Tgt Ion:104 Resp: 1846

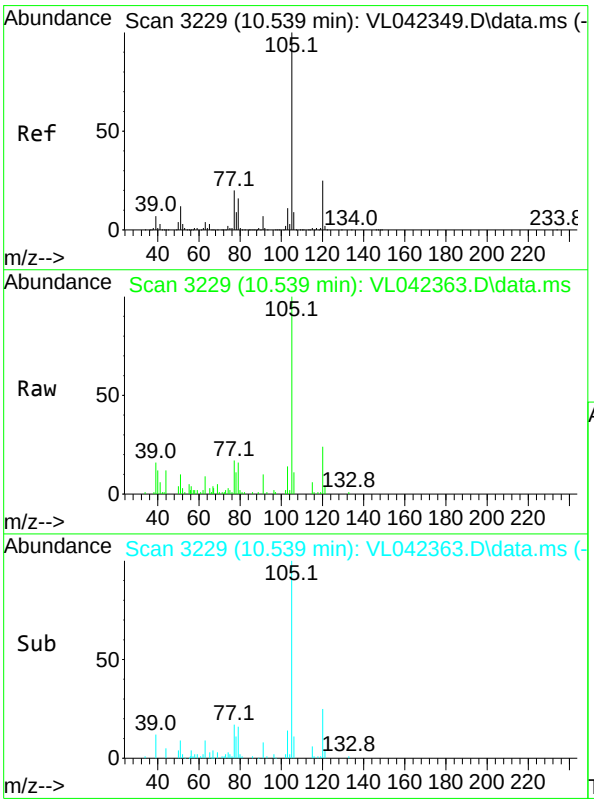
Ion	Ratio	Lower	Upper
104	100		
78	56.7	44.6	66.8
103	48.3	37.4	56.0



Instrument :
MSVOA_L
ClientSampleId :
IA-B1-3-3252025

Manual Integrations
APPROVED

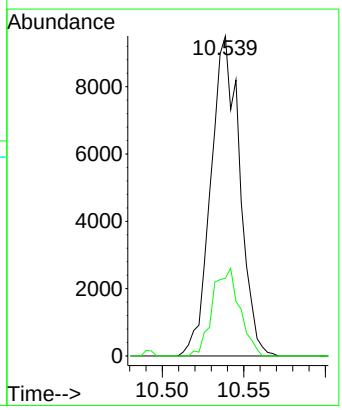
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

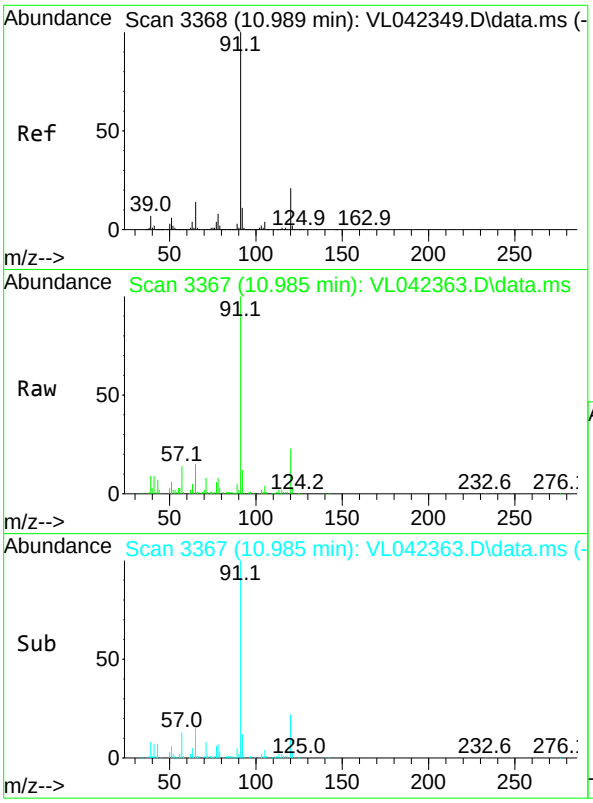


#62
Isopropylbenzene
Concen: 0.163 ppbv
RT: 10.539 min Scan# 3229
Delta R.T. -0.000 min
Lab File: VL042363.D
Acq: 17 Apr 2025 18:24

Tgt Ion:105 Resp: 11682

Ion	Ratio	Lower	Upper
105	100		
120	25.8	19.8	29.8





#64
n-propylbenzene
Concen: 0.620 ppbv m
RT: 10.985 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042363.D
Acq: 17 Apr 2025 18:24

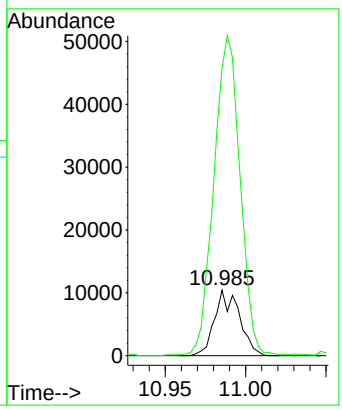
Tgt Ion:120 Resp: 1119

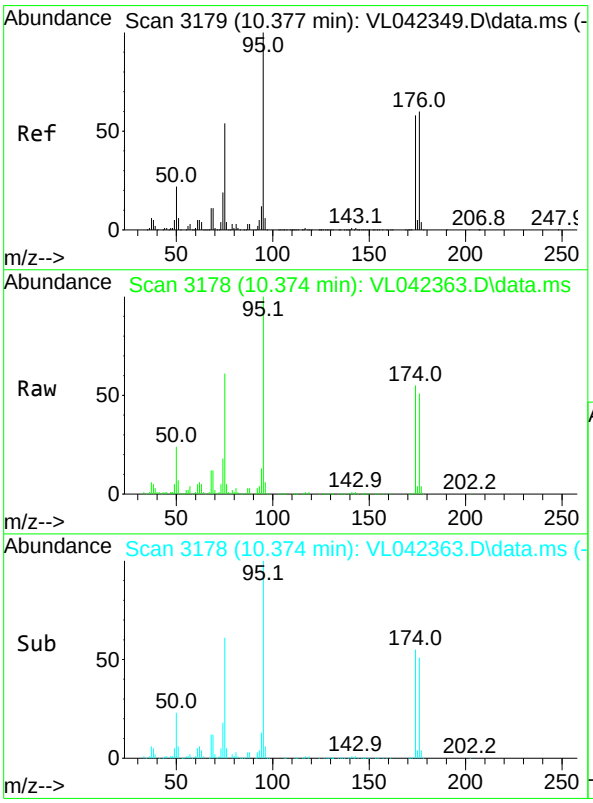
Ion	Ratio	Lower	Upper
120	100		
91	519.3	392.4	588.6

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-3-3252025

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

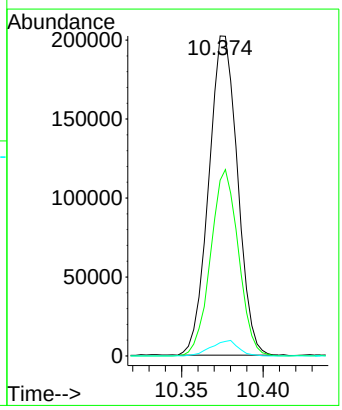


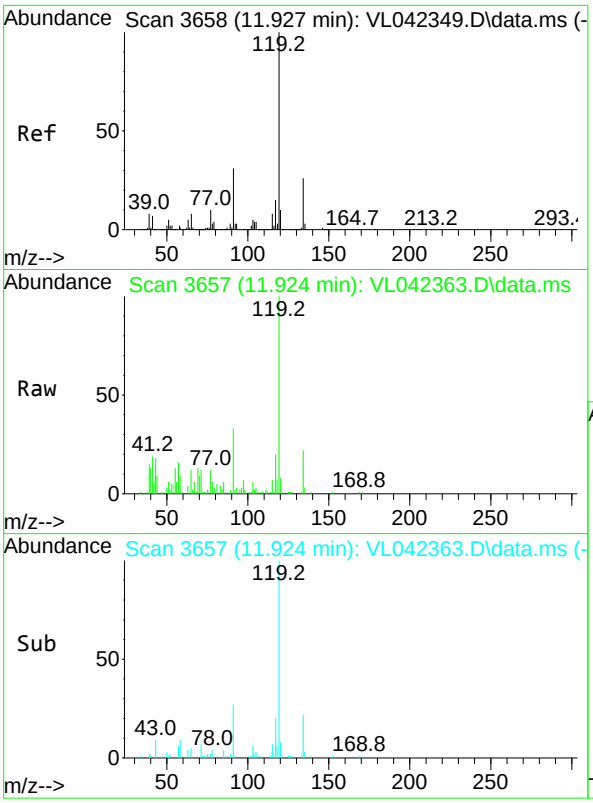


#68
1-Bromo-4-Fluorobenzene
Concen: 9.920 ppbv
RT: 10.374 min Scan# 3178
Delta R.T. -0.003 min
Lab File: VL042363.D
Acq: 17 Apr 2025 18:24

Tgt Ion: 95 Resp: 248134

Ion	Ratio	Lower	Upper
95	100		
174	56.5	48.5	72.7
175	4.6	3.7	5.5

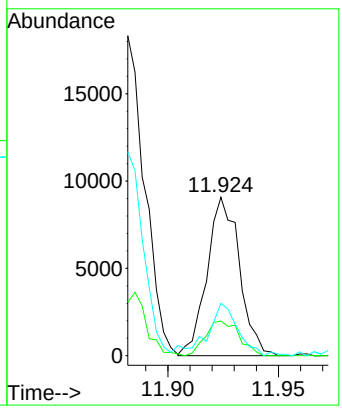




#69
p-Isopropyltoluene
Concen: 0.116 ppbv
RT: 11.924 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042363.D
Acq: 17 Apr 2025 18:24

Tgt Ion:119 Resp: 927

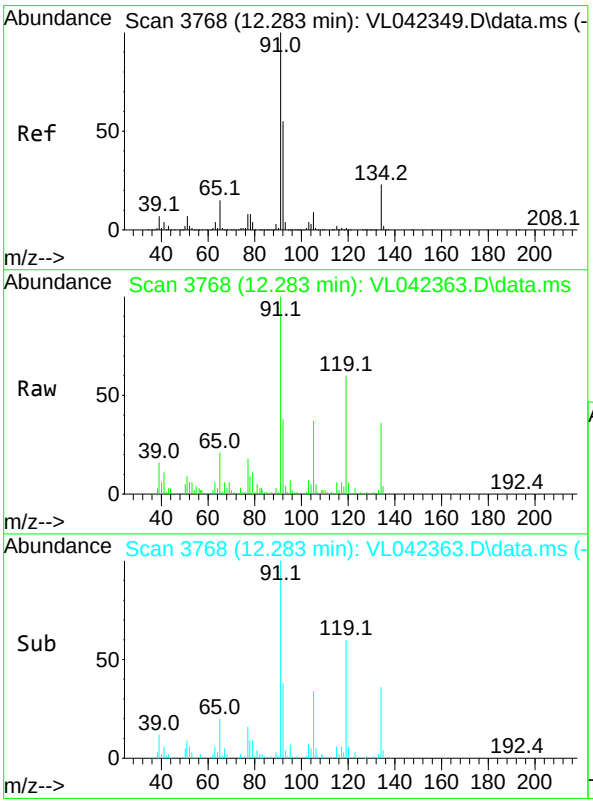
Ion	Ratio	Lower	Upper
119	100		
134	22.6	20.0	30.0
91	31.0	24.4	36.6



Instrument :
MSVOA_L
ClientSampleId :
IA-B1-3-3252025

Manual Integrations
APPROVED

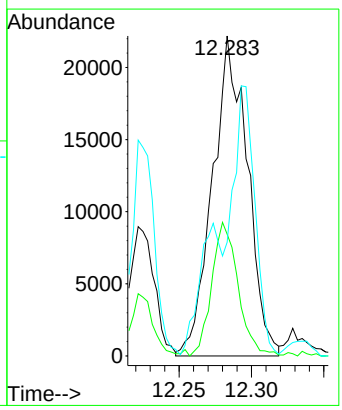
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

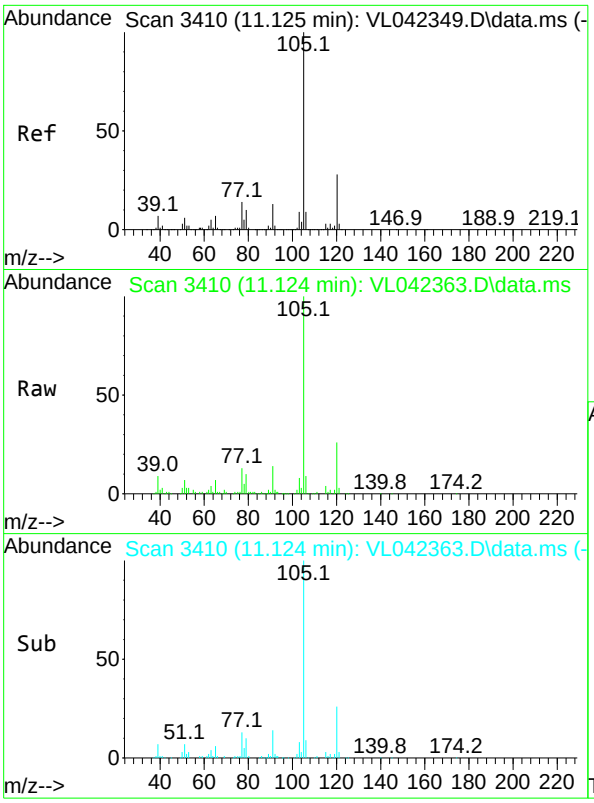


#70
n-Butylbenzene
Concen: 0.448 ppbv m
RT: 12.283 min Scan# 3768
Delta R.T. -0.000 min
Lab File: VL042363.D
Acq: 17 Apr 2025 18:24

Tgt Ion: 91 Resp: 37242

Ion	Ratio	Lower	Upper
91	100		
92	32.2	44.2	66.4#
134	0.0	18.2	27.4#

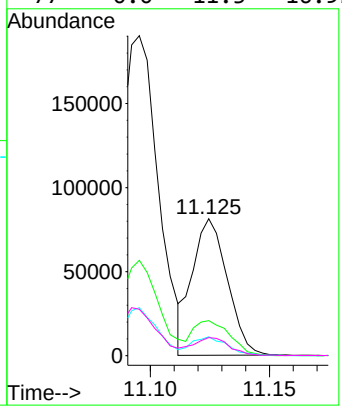




#72
4-Ethyltoluene
Concen: 1.390 ppbv
RT: 11.124 min Scan# 34
Delta R.T. -0.000 min
Lab File: VL042363.D
Acq: 17 Apr 2025 18:24

Tgt Ion:105 Resp: 8312

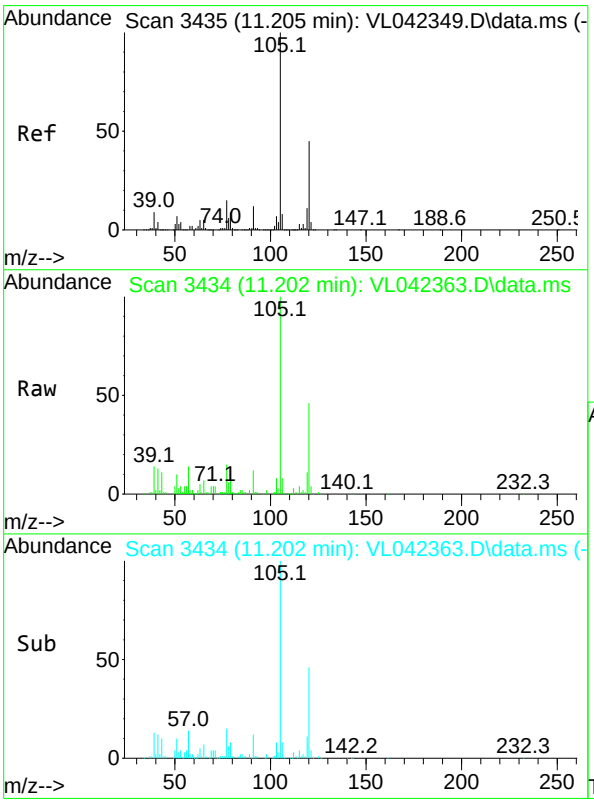
Ion	Ratio	Lower	Upper
105	100		
120	0.0	23.2	34.8#
91	0.0	10.4	15.6#
77	0.0	11.3	16.9#



Instrument :
MSVOA_L
ClientSampleId :
IA-B1-3-3252025

Manual Integrations
APPROVED

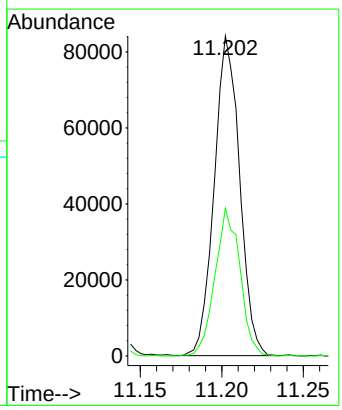
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

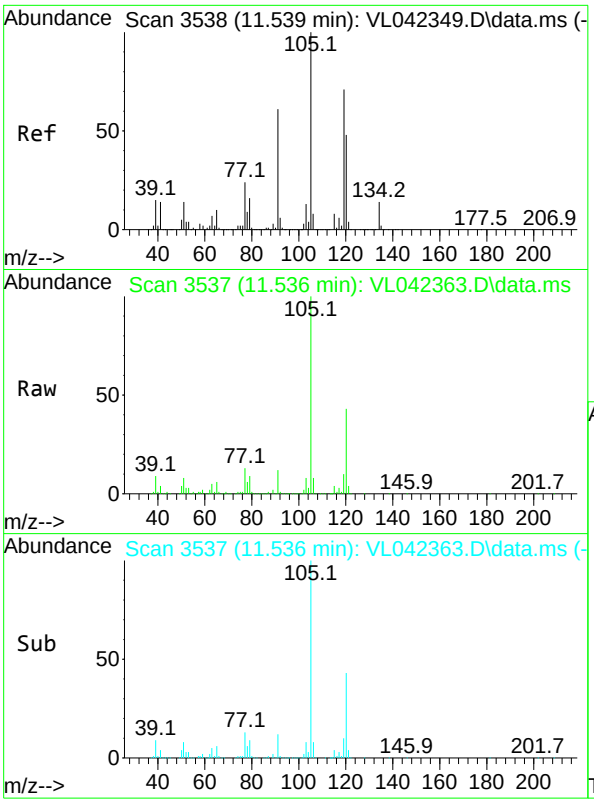


#73
1,3,5-Trimethylbenzene
Concen: 1.724 ppbv
RT: 11.202 min Scan# 3434
Delta R.T. -0.003 min
Lab File: VL042363.D
Acq: 17 Apr 2025 18:24

Tgt Ion:105 Resp: 91013

Ion	Ratio	Lower	Upper
105	100		
120	46.2	35.6	53.4

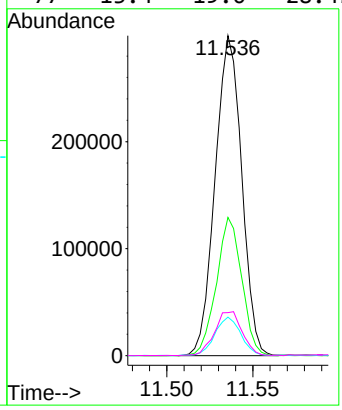




#74
1,2,4-Trimethylbenzene
Concen: 5.205 ppbv
RT: 11.536 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042363.D
Acq: 17 Apr 2025 18:24

Tgt Ion:105 Resp: 32103

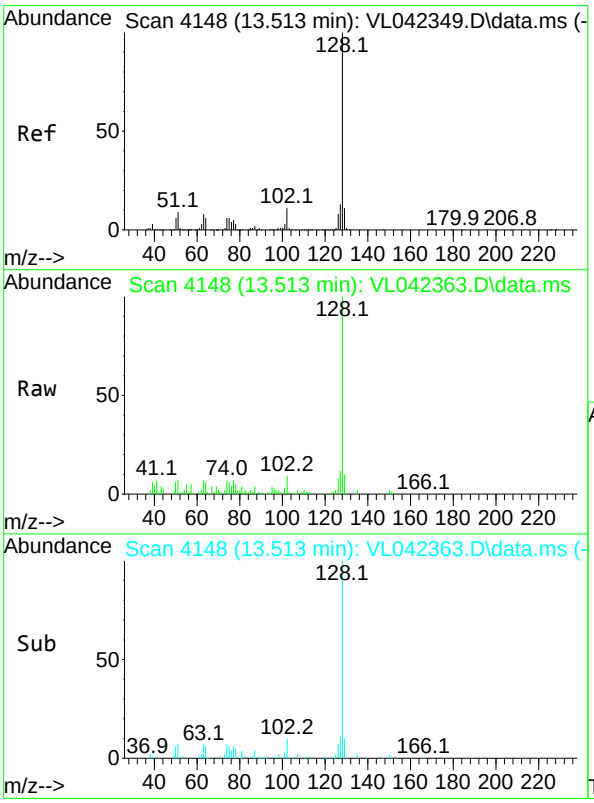
Ion	Ratio	Lower	Upper
105	100		
120	43.2	38.1	57.1
91	12.0	48.8	73.2#
77	13.4	19.0	28.4#



Instrument :
MSVOA_L
ClientSampleId :
IA-B1-3-3252025

Manual Integrations APPROVED

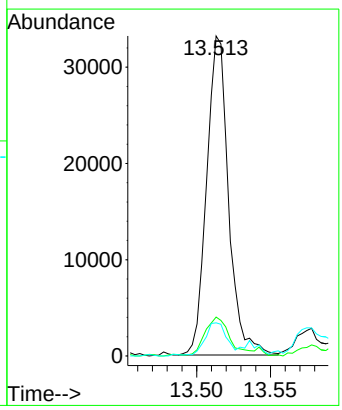
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

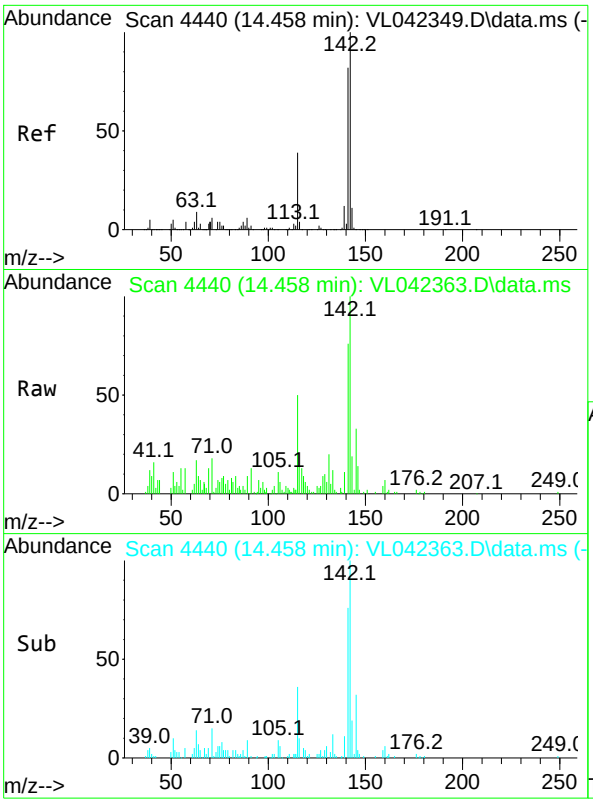


#79
Naphthalene
Concen: 0.465 ppbv
RT: 13.513 min Scan# 4148
Delta R.T. -0.000 min
Lab File: VL042363.D
Acq: 17 Apr 2025 18:24

Tgt Ion:128 Resp: 34268

Ion	Ratio	Lower	Upper
128	100		
127	11.8	10.6	15.8
129	10.0	8.6	12.8

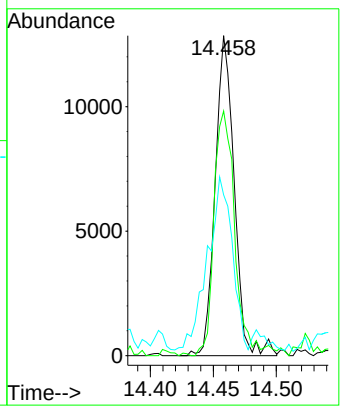




#80
Naphthalene,2-methyl-
Concen: 0.321 ppbv m
RT: 14.458 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042363.D
Acq: 17 Apr 2025 18:24

Tgt Ion:142 Resp: 1350

Ion	Ratio	Lower	Upper
142	100		
141	53.2	66.8	100.2#
115	29.7	33.4	50.2#



Instrument :
MSVOA_L
ClientSampleId :
IA-B1-3-3252025

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

LSC Area Percent Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042363.D
Acq On : 17 Apr 2025 18:24
Operator : SY/MD
Sample : Q1668-03
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument : MSVOA_L
ClientSampleId : IA-B1-3-3252025

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 3 Min Area: 3 % of largest Peak
Start Thrs: 0.001 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 0

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

Signal : TIC: VL042363.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.431	410	415	420	rBV	4164753	4711012	100.00%	17.819%
2	1.557	450	454	459	rBV2	137441	80270	1.70%	0.304%
3	1.719	500	504	511	rVB	730617	455138	9.66%	1.722%
4	1.835	535	540	547	rBV2	219139	216042	4.59%	0.817%
5	1.887	549	556	560	rBV2	65548	55908	1.19%	0.211%
6	1.962	575	579	584	rBV	96219	63837	1.36%	0.241%
7	2.059	599	609	613	rBV3	44647	47708	1.01%	0.180%
8	2.473	732	737	744	rVB	88715	86938	1.85%	0.329%
9	2.622	775	783	792	rVB2	59124	65772	1.40%	0.249%
10	2.787	825	834	840	rBV	441803	454636	9.65%	1.720%
11	2.826	840	846	858	rVB	181776	201973	4.29%	0.764%
12	3.230	961	971	980	rVB2	59589	81524	1.73%	0.308%
13	3.654	1091	1102	1110	rBV3	32874	54778	1.16%	0.207%
14	3.855	1151	1164	1175	rBV5	95622	160629	3.41%	0.608%
15	3.955	1184	1195	1211	rBV	586363	930875	19.76%	3.521%
16	4.049	1211	1224	1233	rVV2	123441	222391	4.72%	0.841%
17	4.095	1233	1238	1249	rVB4	52431	85510	1.82%	0.323%
18	4.266	1276	1291	1305	rVB4	144344	288179	6.12%	1.090%
19	4.444	1334	1346	1358	rBV6	31083	58902	1.25%	0.223%
20	4.519	1358	1369	1377	rBV9	27490	63579	1.35%	0.240%
21	4.596	1383	1393	1401	rVB3	35659	59147	1.26%	0.224%
22	4.978	1498	1511	1527	rVB4	82255	178654	3.79%	0.676%
23	5.668	1699	1724	1737	rBV6	62779	173172	3.68%	0.655%
24	5.748	1737	1749	1776	rVV2	731654	1834769	38.95%	6.940%
25	6.936	2102	2116	2127	rBV3	88550	182982	3.88%	0.692%
26	7.613	2309	2325	2326	rBV6	30842	50187	1.07%	0.190%
27	8.302	2531	2538	2555	rVB8	48472	112273	2.38%	0.425%
28	8.882	2701	2717	2727	rBV	766776	1157964	24.58%	4.380%
29	8.982	2740	2748	2762	rVB8	49326	98722	2.10%	0.373%
30	9.144	2790	2798	2812	rVB3	53109	83167	1.77%	0.315%
31	9.354	2852	2863	2875	rBV2	119959	200501	4.26%	0.758%
32	9.529	2907	2917	2934	rVB	661888	1112755	23.62%	4.209%
33	9.629	2934	2948	2965	rVV	216386	345405	7.33%	1.306%
34	9.730	2965	2979	2991	rVB6	107173	247258	5.25%	0.935%
35	9.859	3006	3019	3031	rBV5	141249	254982	5.41%	0.964%
36	9.963	3041	3051	3062	rBV	275078	388323	8.24%	1.469%

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042363.D
Acq On : 17 Apr 2025 18:24
Operator : SY/MD
Sample : Q1668-03
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-3-3252025

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 3 Min Area: 3 % of largest Peak
Start Thrs: 0.001 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 0

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

37	10.098	3088	3093	3100	rVB4	64114	86459	1.84%	0.327%
38	10.377	3156	3179	3188	rBV3	952202	1431484	30.39%	5.414%
39	10.432	3188	3196	3205	rVB3	53312	71440	1.52%	0.270%
40	10.768	3288	3300	3305	rBV4	56788	88861	1.89%	0.336%
41	10.856	3321	3327	3334	rVB3	74531	92674	1.97%	0.351%
42	10.901	3334	3341	3349	rVB4	62483	81270	1.73%	0.307%
43	10.989	3353	3368	3382	rBV3	126524	221476	4.70%	0.838%
44	11.095	3394	3401	3406	rBV	514012	565072	11.99%	2.137%
45	11.125	3406	3410	3421	rVB	214390	244587	5.19%	0.925%
46	11.202	3421	3434	3442	rBV2	312620	373334	7.92%	1.412%
47	11.257	3442	3451	3454	rBV	69952	79345	1.68%	0.300%
48	11.280	3454	3458	3463	rVV2	104077	106039	2.25%	0.401%
49	11.312	3463	3468	3472	rVV2	102205	118693	2.52%	0.449%
50	11.335	3472	3475	3481	rVB2	150460	152071	3.23%	0.575%
51	11.403	3489	3496	3501	rBV2	124820	135984	2.89%	0.514%
52	11.536	3528	3537	3547	rBV	868083	972301	20.64%	3.678%
53	11.591	3547	3554	3566	rVB5	50240	86331	1.83%	0.327%
54	11.727	3583	3596	3598	rBV3	65833	88532	1.88%	0.335%
55	11.752	3598	3604	3619	rVB2	316329	416809	8.85%	1.577%
56	11.879	3637	3643	3650	rVB2	254787	269740	5.73%	1.020%
57	12.018	3677	3686	3690	rBV2	152441	186499	3.96%	0.705%
58	12.040	3690	3693	3703	rVB5	84407	89240	1.89%	0.338%
59	12.096	3703	3710	3717	rVB7	44392	54472	1.16%	0.206%
60	12.170	3727	3733	3737	rBV4	55377	59427	1.26%	0.225%
61	12.196	3737	3741	3744	rVV2	68774	62318	1.32%	0.236%
62	12.225	3744	3750	3757	rVB	215051	224174	4.76%	0.848%
63	12.270	3757	3764	3767	rBV2	82846	94784	2.01%	0.359%
64	12.296	3767	3772	3777	rVB2	168737	171441	3.64%	0.648%
65	12.403	3794	3805	3811	rBV3	139767	163836	3.48%	0.620%
66	12.439	3811	3816	3822	rVB3	85146	85487	1.81%	0.323%
67	12.477	3822	3828	3832	rBV2	88837	92790	1.97%	0.351%
68	12.503	3832	3836	3840	rBV2	130502	131254	2.79%	0.496%
69	12.545	3845	3849	3855	rVB3	142079	142135	3.02%	0.538%
70	12.591	3855	3863	3872	rBV4	220691	313084	6.65%	1.184%
71	12.668	3877	3887	3893	rBV7	53329	77380	1.64%	0.293%
72	12.827	3930	3936	3942	rVB2	282152	262228	5.57%	0.992%
73	12.859	3942	3946	3955	rVB7	40575	54660	1.16%	0.207%
74	12.918	3955	3964	3969	rBV2	110992	130273	2.77%	0.493%
75	12.950	3969	3974	3982	rVV	143826	146120	3.10%	0.553%
76	13.002	3984	3990	4002	rVB8	84226	132331	2.81%	0.501%

LSC Area Percent Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042363.D
Acq On : 17 Apr 2025 18:24
Operator : SY/MD
Sample : Q1668-03
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-3-3252025

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 3 Min Area: 3 % of largest Peak
Start Thrs: 0.001 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 0

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

77	13.102	4016	4021	4023	rBV3	58961	53065	1.13%	0.201%
78	13.128	4023	4029	4035	rVB2	124649	136499	2.90%	0.516%
79	13.167	4035	4041	4046	rBV4	91535	98329	2.09%	0.372%
80	13.225	4053	4059	4063	rBV	153799	165182	3.51%	0.625%
81	13.251	4063	4067	4075	rVB6	96366	124067	2.63%	0.469%
82	13.332	4085	4092	4102	rBV6	163805	224548	4.77%	0.849%
83	13.387	4102	4109	4115	rVB4	119064	137234	2.91%	0.519%
84	13.423	4115	4120	4125	rBV6	74247	90169	1.91%	0.341%
85	13.513	4143	4148	4153	rBV	59545	61169	1.30%	0.231%
86	13.578	4161	4168	4169	rBV3	67895	60969	1.29%	0.231%
87	13.591	4169	4172	4177	rVB7	74704	69032	1.47%	0.261%
88	13.662	4184	4194	4205	rVB6	117000	209215	4.44%	0.791%
89	13.727	4205	4214	4220	rBV2	227034	237426	5.04%	0.898%
90	13.830	4235	4246	4251	rBV3	72576	100629	2.14%	0.381%
91	13.898	4260	4267	4272	rVB8	50528	68353	1.45%	0.259%
92	13.979	4281	4292	4298	rBV8	39717	52368	1.11%	0.198%
93	14.109	4320	4332	4344	rVB8	55012	131914	2.80%	0.499%
94	14.235	4361	4371	4387	rVB7	113249	210659	4.47%	0.797%
95	14.338	4398	4403	4410	rBV4	65653	76845	1.63%	0.291%
96	14.452	4430	4438	4445	rBV5	76411	114130	2.42%	0.432%
97	14.523	4454	4460	4472	rVB2	156795	177895	3.78%	0.673%
98	14.588	4472	4480	4484	rBV7	38659	49095	1.04%	0.186%
99	14.665	4494	4504	4515	rBV5	86075	133695	2.84%	0.506%
100	14.788	4532	4542	4551	rVB2	83951	110417	2.34%	0.418%
101	14.892	4566	4574	4581	rVB6	34870	56350	1.20%	0.213%
102	14.934	4581	4587	4591	rBV6	39288	51392	1.09%	0.194%
103	15.109	4633	4641	4648	rVB6	40823	61580	1.31%	0.233%
104	15.242	4672	4682	4691	rVB5	85795	101266	2.15%	0.383%
105	15.585	4782	4788	4798	rVB10	36420	52638	1.12%	0.199%

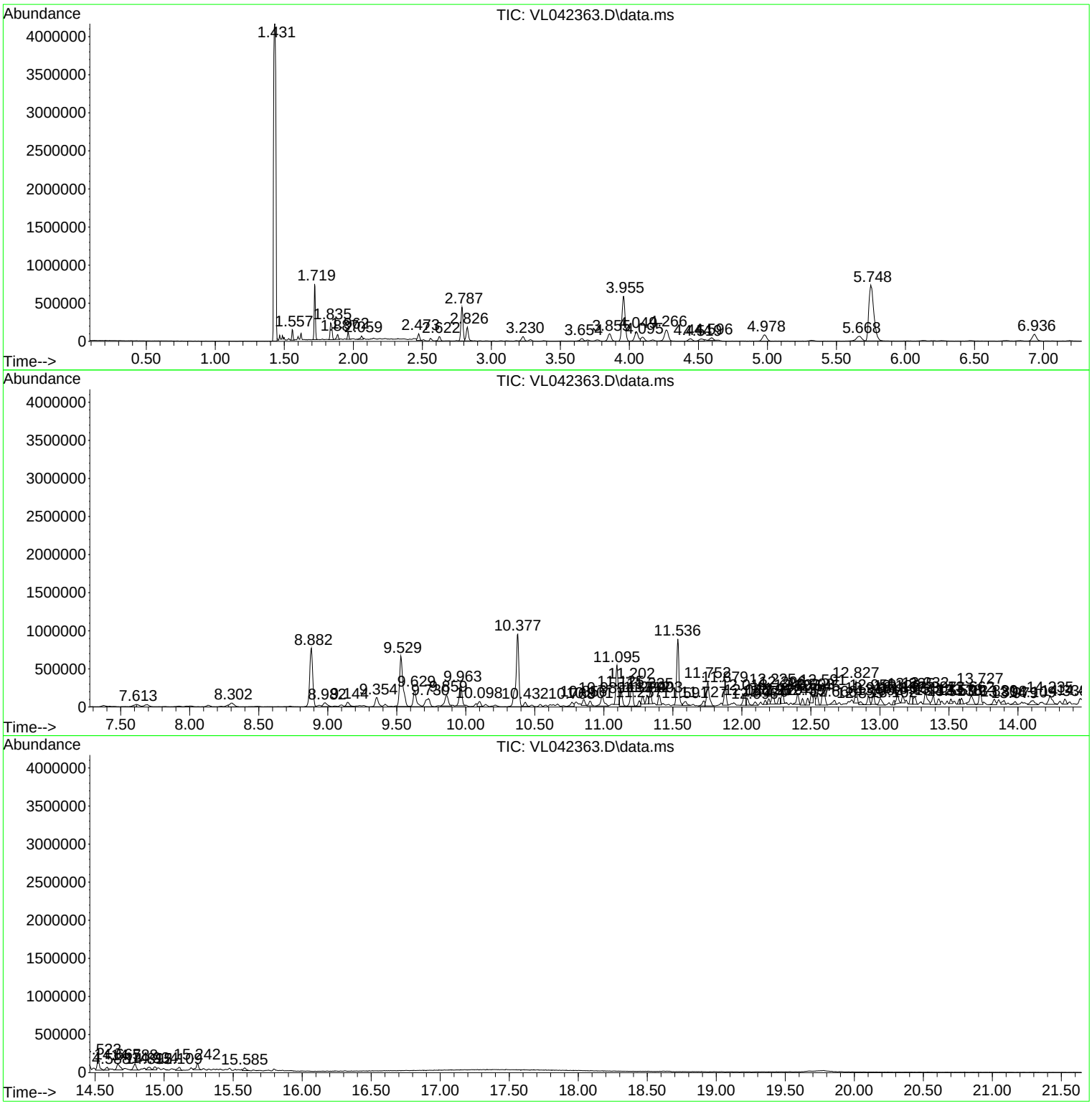
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Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042363.D
Acq On : 17 Apr 2025 18:24
Operator : SY/MD
Sample : Q1668-03
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-3-3252025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042363.D
Acq On : 17 Apr 2025 18:24
Operator : SY/MD
Sample : Q1668-03
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-3-3252025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

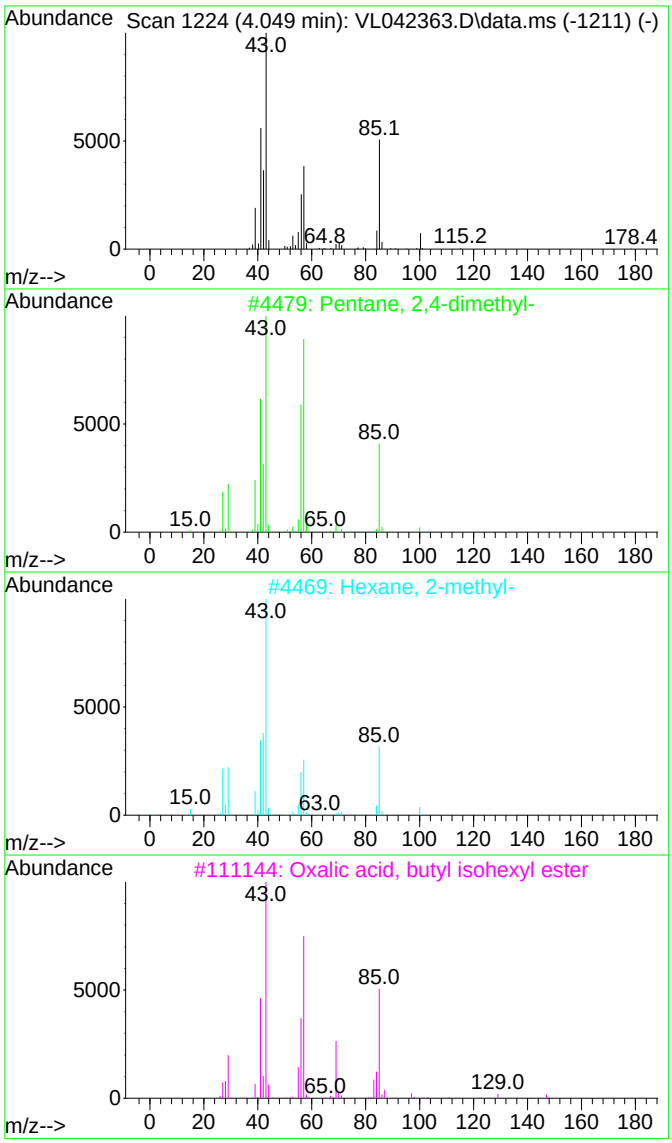
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TIC Integration Parameters: LSCINT.P

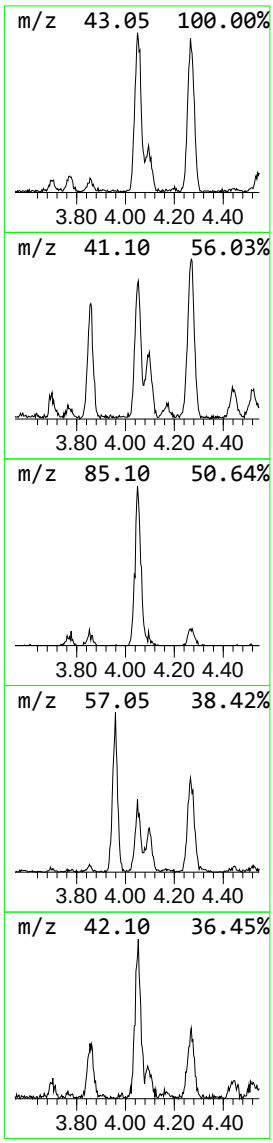
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Peak Number 1 Pentane, 2,4-dimethyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.049	2.39 ppbv	222391	1,4-Difluorobenzene	3.959

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,4-dimethyl-	100	C7H16	000108-08-7	80
2	Hexane, 2-methyl-	100	C7H16	000591-76-4	74
3	Oxalic acid, butyl isohexyl ester	230	C12H22O4	1000309-32-7	64
4	Oxalic acid, diisohexyl ester	258	C14H26O4	1010309-32-9	64
5	Heptane, 3-methyl-	114	C8H18	000589-81-1	53





Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042363.D
Acq On : 17 Apr 2025 18:24
Operator : SY/MD
Sample : Q1668-03
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-3-3252025

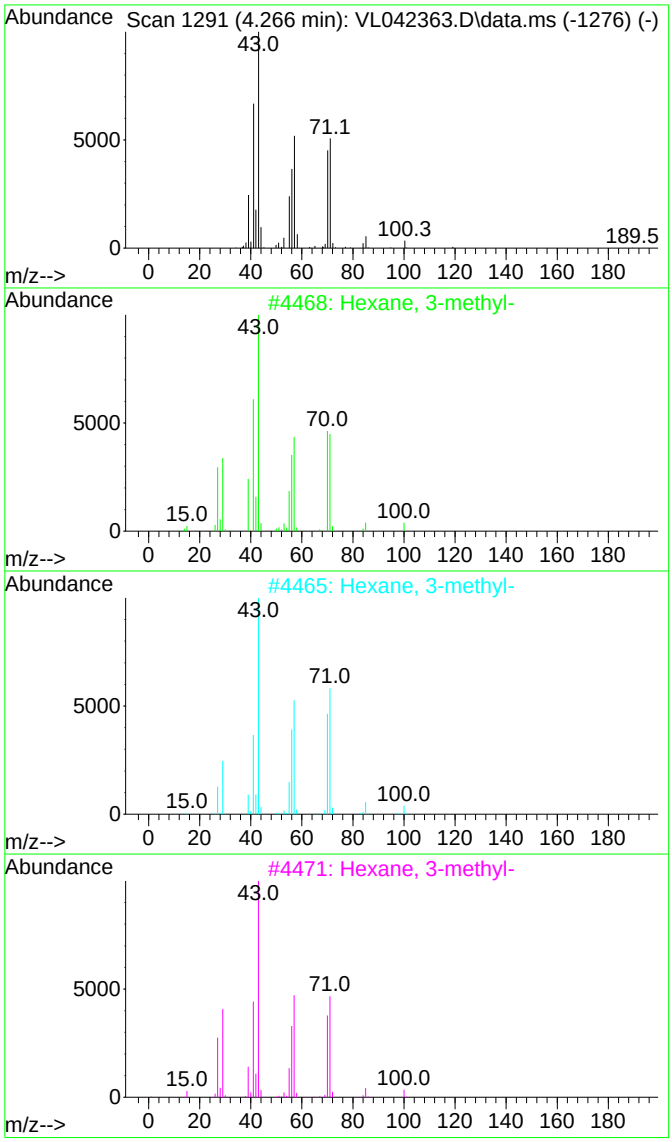
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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

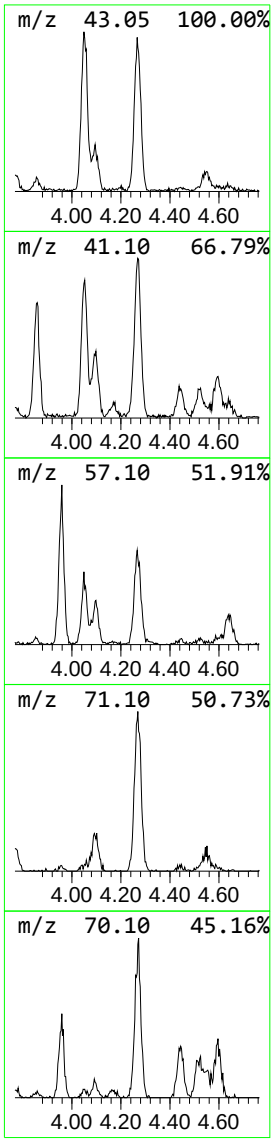
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 2 Hexane, 3-methyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.266	3.10 ppbv	288179	1,4-Difluorobenzene	3.959

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 3-methyl-	100	C7H16	000589-34-4	91
2	Hexane, 3-methyl-	100	C7H16	000589-34-4	87
3	Hexane, 3-methyl-	100	C7H16	000589-34-4	86
4	Heptane, 3,4-dimethyl-	128	C9H20	000922-28-1	59
5	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	59





Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042363.D
Acq On : 17 Apr 2025 18:24
Operator : SY/MD
Sample : Q1668-03
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-3-3252025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

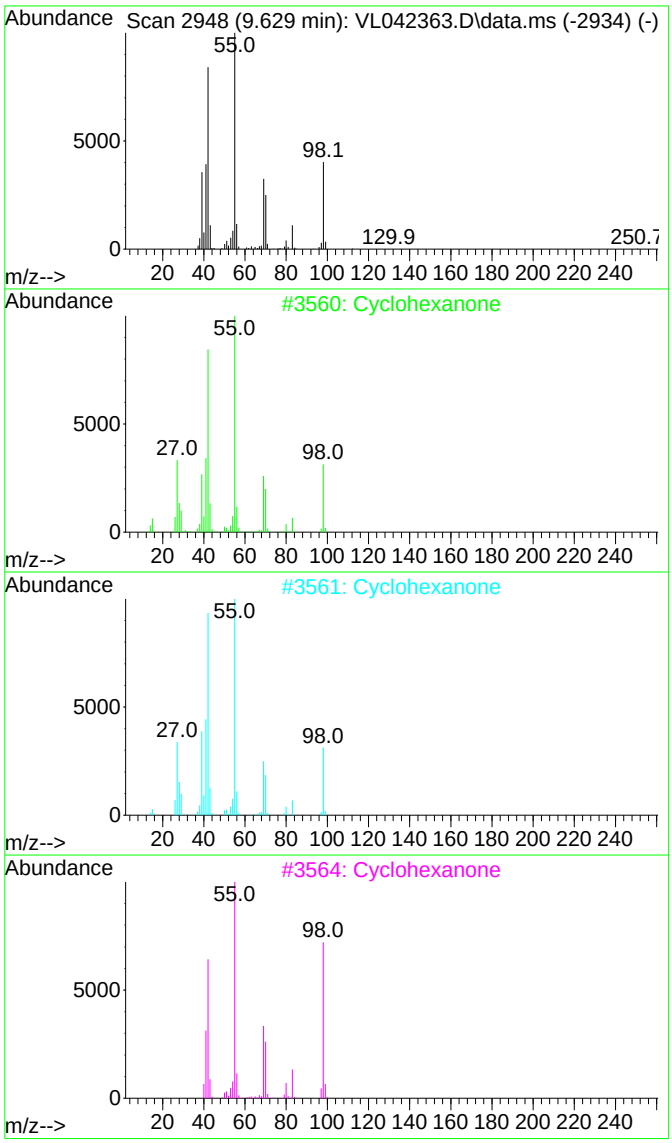
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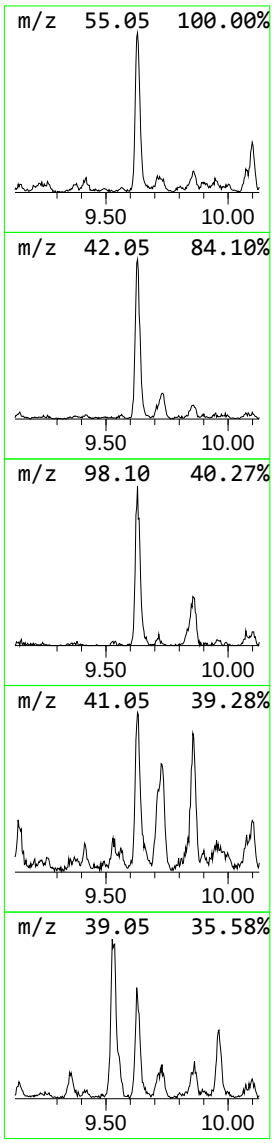
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Peak Number 3 Cyclohexanone Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.629	2.98 ppbv	345405	Chlorobenzene-d5	8.882

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexanone	98	C6H10O	000108-94-1	94
2	Cyclohexanone	98	C6H10O	000108-94-1	91
3	Cyclohexanone	98	C6H10O	000108-94-1	91
4	Cyclohexanone	98	C6H10O	000108-94-1	91
5	Cyclohexanone	98	C6H10O	000108-94-1	91





Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042363.D
Acq On : 17 Apr 2025 18:24
Operator : SY/MD
Sample : Q1668-03
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-3-3252025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

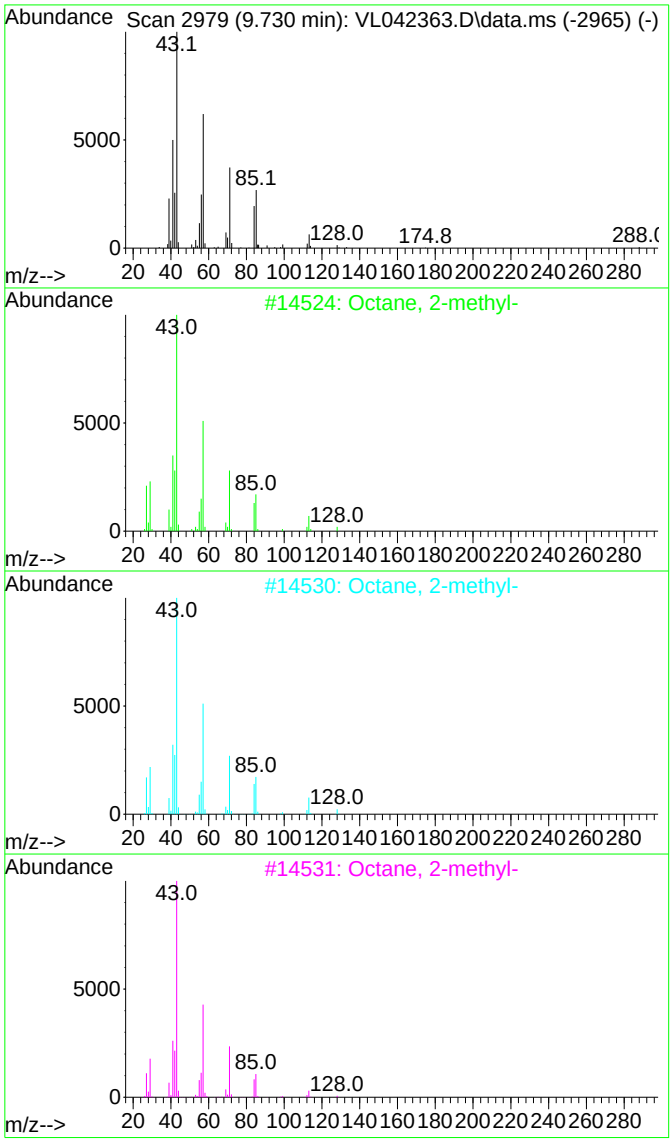
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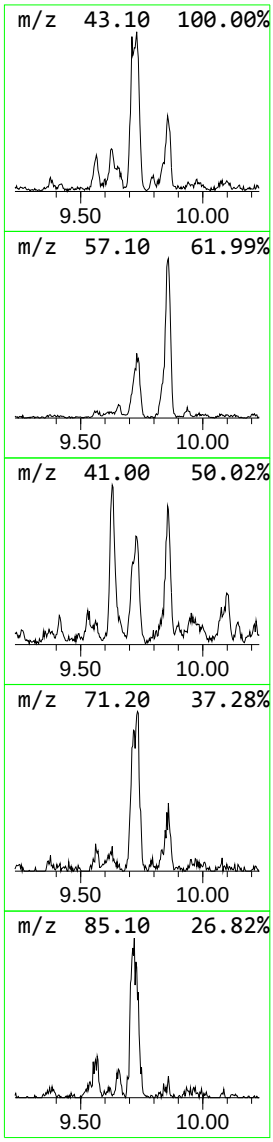
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Peak Number 4 Octane, 2-methyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.730	2.14 ppbv	247258	Chlorobenzene-d5	8.882

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octane, 2-methyl-	128	C9H20	003221-61-2	90
2	Octane, 2-methyl-	128	C9H20	003221-61-2	90
3	Octane, 2-methyl-	128	C9H20	003221-61-2	87
4	Heptane, 2,6-dimethyl-	128	C9H20	001072-05-5	72
5	Heptane, 2,6-dimethyl-	128	C9H20	001072-05-5	58





Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042363.D
Acq On : 17 Apr 2025 18:24
Operator : SY/MD
Sample : Q1668-03
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-3-3252025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

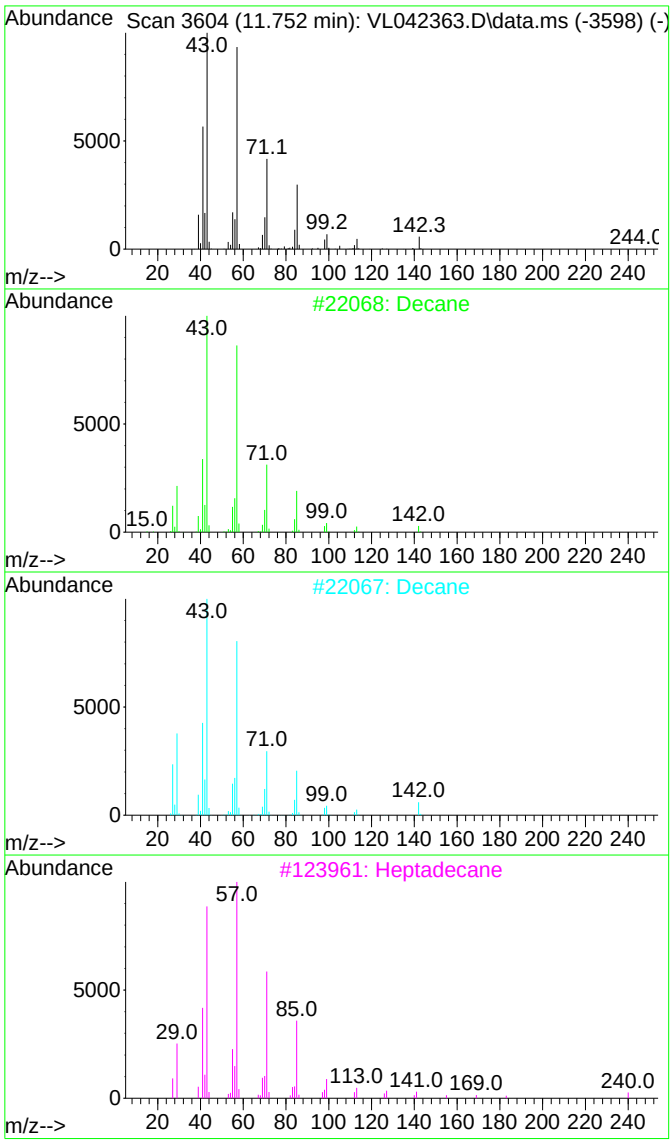
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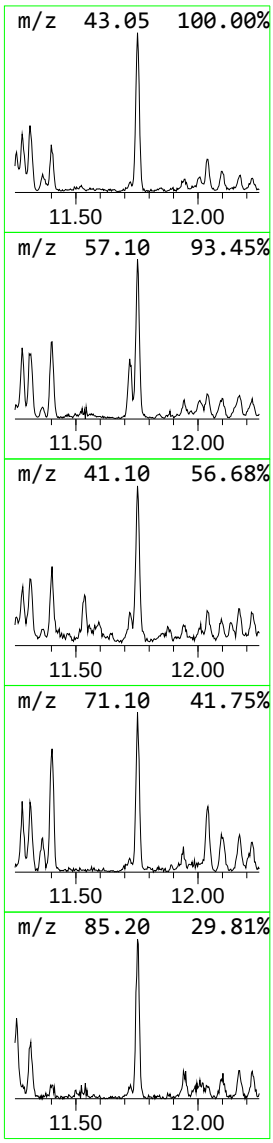
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Peak Number 5 Decane Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.752	3.60 ppbv	416809	Chlorobenzene-d5	8.882

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Decane	142	C10H22	000124-18-5	91
2	Decane	142	C10H22	000124-18-5	90
3	Heptadecane	240	C17H36	000629-78-7	83
4	Tridecane	184	C13H28	000629-50-5	80
5	Sulfurous acid, pentadecyl 2-pro...	334	C18H38O3S	1000309-12-6	78





Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042363.D
Acq On : 17 Apr 2025 18:24
Operator : SY/MD
Sample : Q1668-03
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-3-3252025

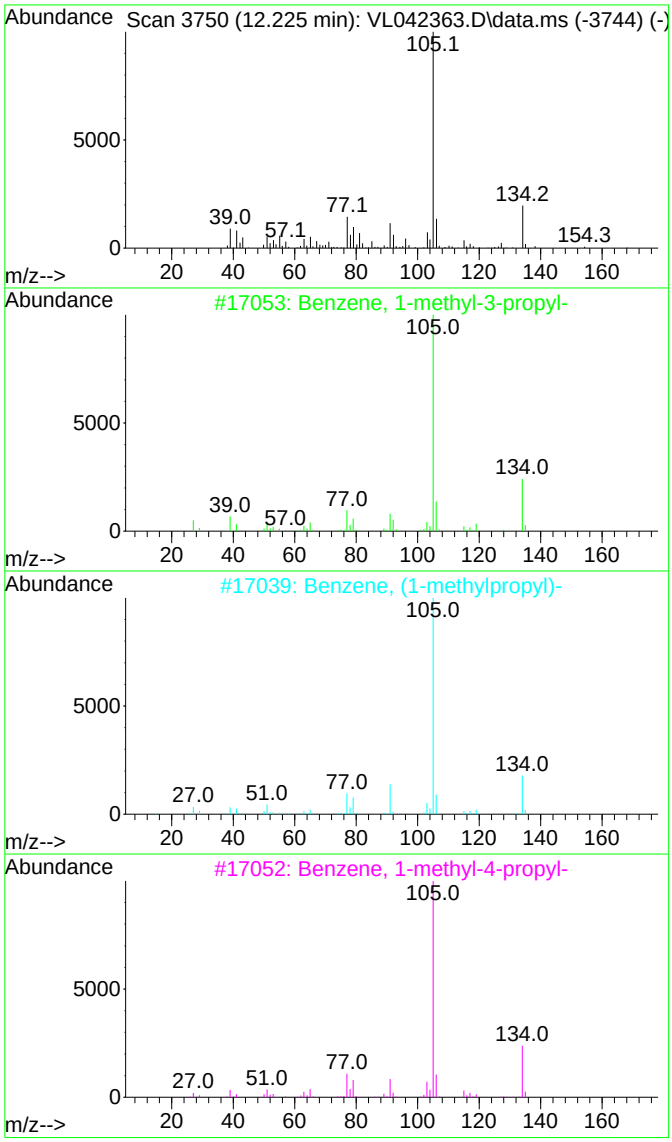
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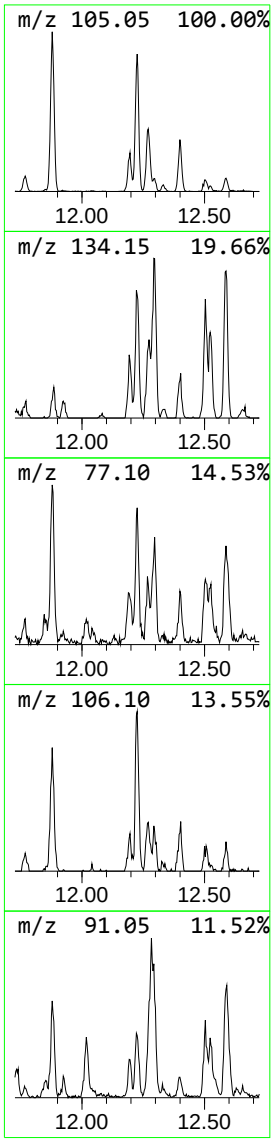
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 6 Benzene, 1-methyl-3-propyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.225	1.94 ppbv	224174	Chlorobenzene-d5	8.882

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-methyl-3-propyl-	134	C10H14	001074-43-7	91
2	Benzene, (1-methylpropyl)-	134	C10H14	000135-98-8	90
3	Benzene, 1-methyl-4-propyl-	134	C10H14	001074-55-1	90
4	Benzene, (1-methylpropyl)-	134	C10H14	000135-98-8	90
5	Benzene, 1-methyl-3-propyl-	134	C10H14	001074-43-7	90





Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042363.D
Acq On : 17 Apr 2025 18:24
Operator : SY/MD
Sample : Q1668-03
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-3-3252025

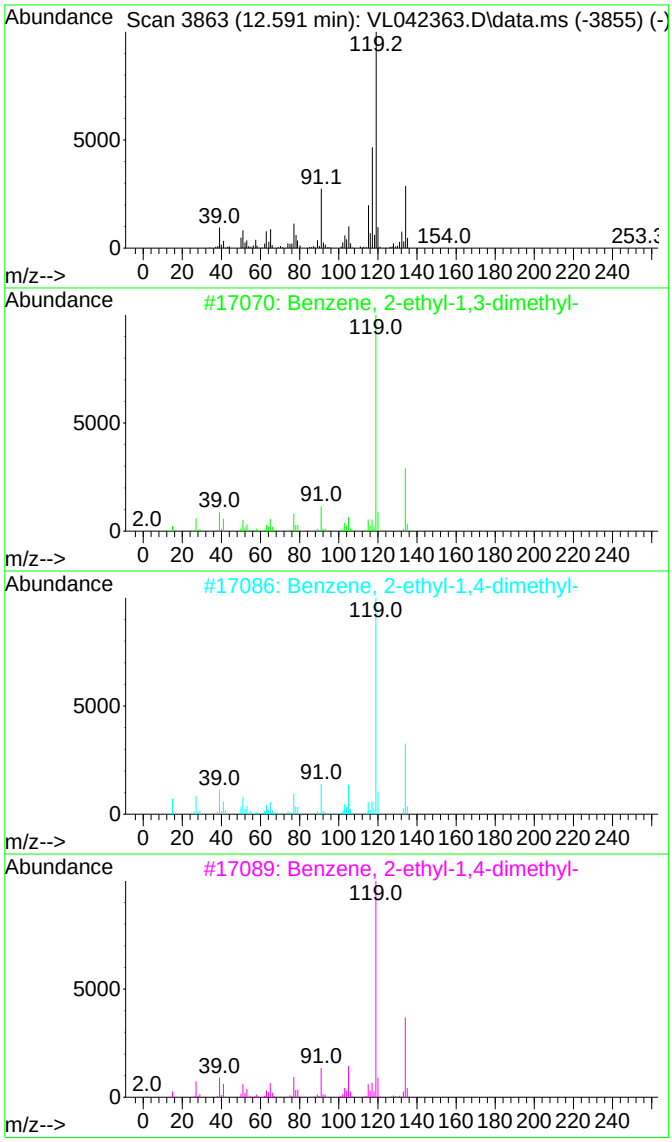
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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

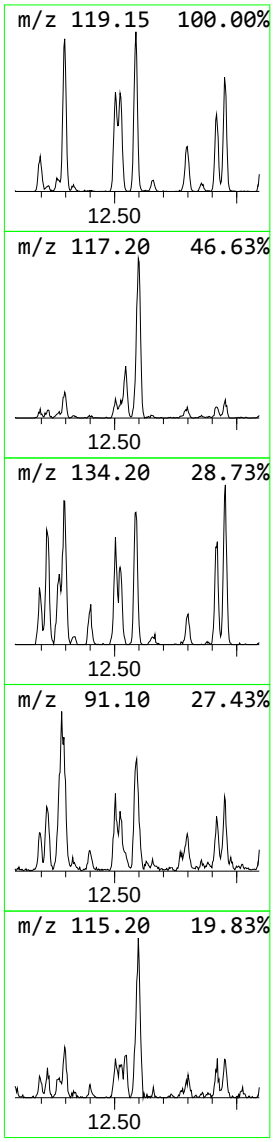
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 7 Benzene, 2-ethyl-1,3-dimethyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.591	2.70 ppbv	313084	Chlorobenzene-d5	8.882

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 2-ethyl-1,3-dimethyl-	134	C10H14	002870-04-4	70
2	Benzene, 2-ethyl-1,4-dimethyl-	134	C10H14	001758-88-9	70
3	Benzene, 2-ethyl-1,4-dimethyl-	134	C10H14	001758-88-9	70
4	Benzene, 1-ethyl-2,4-dimethyl-	134	C10H14	000874-41-9	64
5	Benzene, 1-ethyl-2,3-dimethyl-	134	C10H14	000933-98-2	64





Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042363.D
Acq On : 17 Apr 2025 18:24
Operator : SY/MD
Sample : Q1668-03
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-3-3252025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

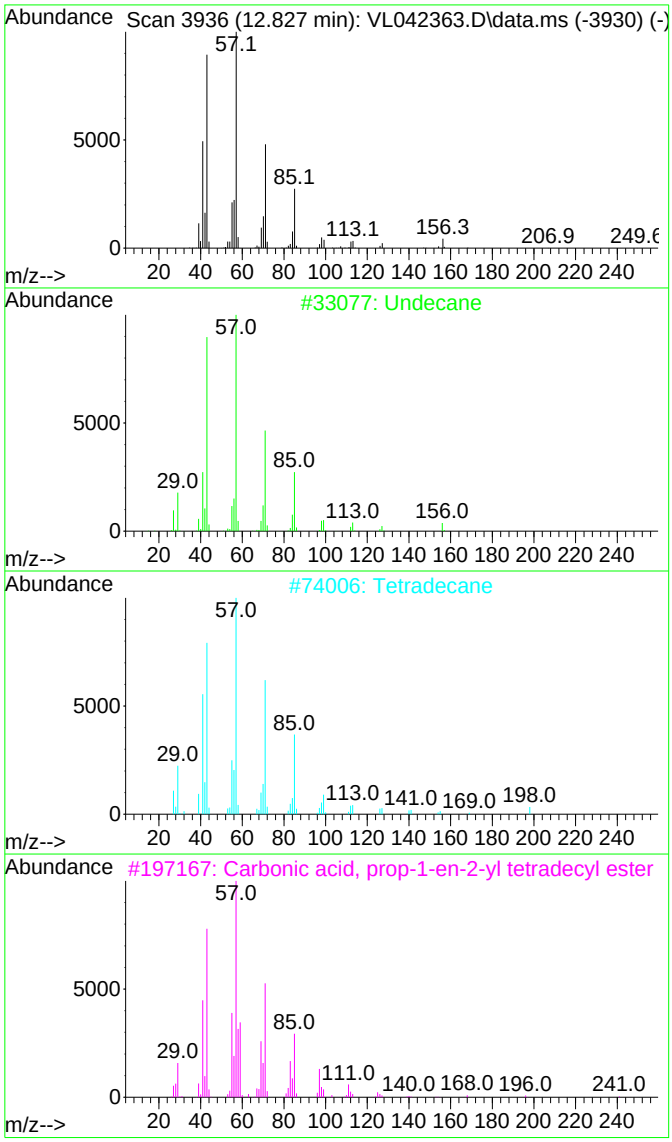
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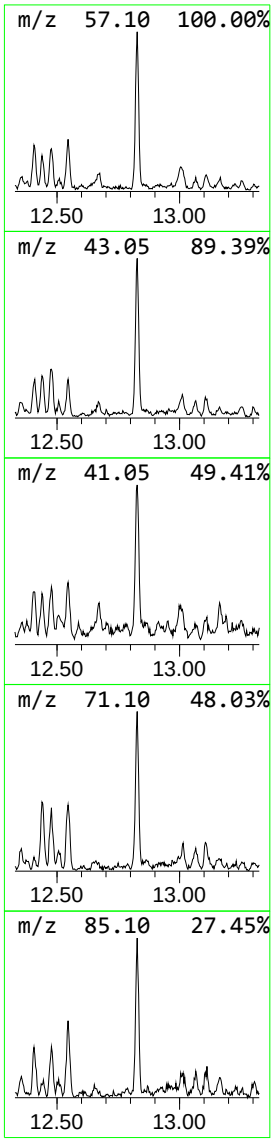
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Peak Number 8 Undecane Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.827	2.26 ppbv	262228	Chlorobenzene-d5	8.882

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Undecane	156	C11H24	001120-21-4	94
2	Tetradecane	198	C14H30	000629-59-4	86
3	Carbonic acid, prop-1-en-2-yl te...	298	C18H34O3	1000382-90-9	78
4	Undecane	156	C11H24	001120-21-4	76
5	Undecane	156	C11H24	001120-21-4	76





Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042363.D
Acq On : 17 Apr 2025 18:24
Operator : SY/MD
Sample : Q1668-03
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-3-3252025

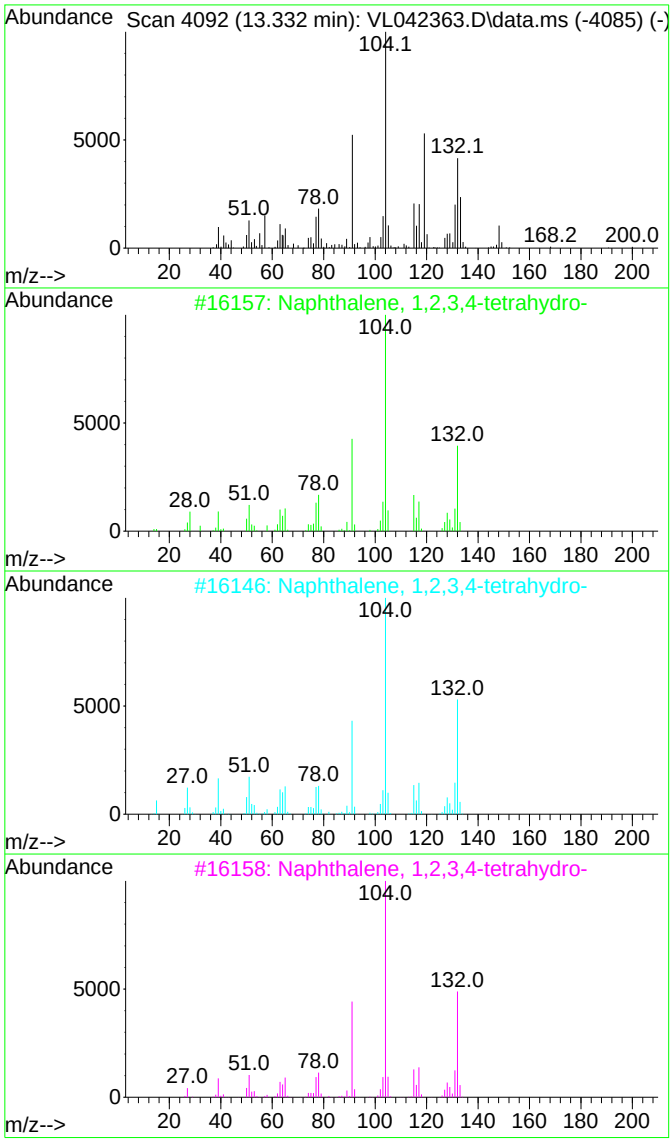
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

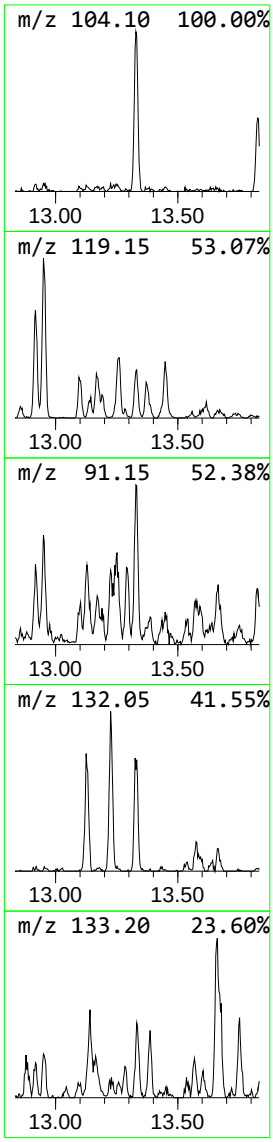
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 9 Naphthalene, 1,2,3,4-tetrah... Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.332	1.94 ppbv	224548	Chlorobenzene-d5	8.882

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1,2,3,4-tetrahydro-	132	C10H12	000119-64-2	86
2	Naphthalene, 1,2,3,4-tetrahydro-	132	C10H12	000119-64-2	64
3	Naphthalene, 1,2,3,4-tetrahydro-	132	C10H12	000119-64-2	58
4	Naphthalene, 1,2,3,4-tetrahydro-	132	C10H12	000119-64-2	52
5	Naphthalene, 1,2,3,4-tetrahydro-	132	C10H12	000119-64-2	49





Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042363.D
Acq On : 17 Apr 2025 18:24
Operator : SY/MD
Sample : Q1668-03
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-3-3252025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

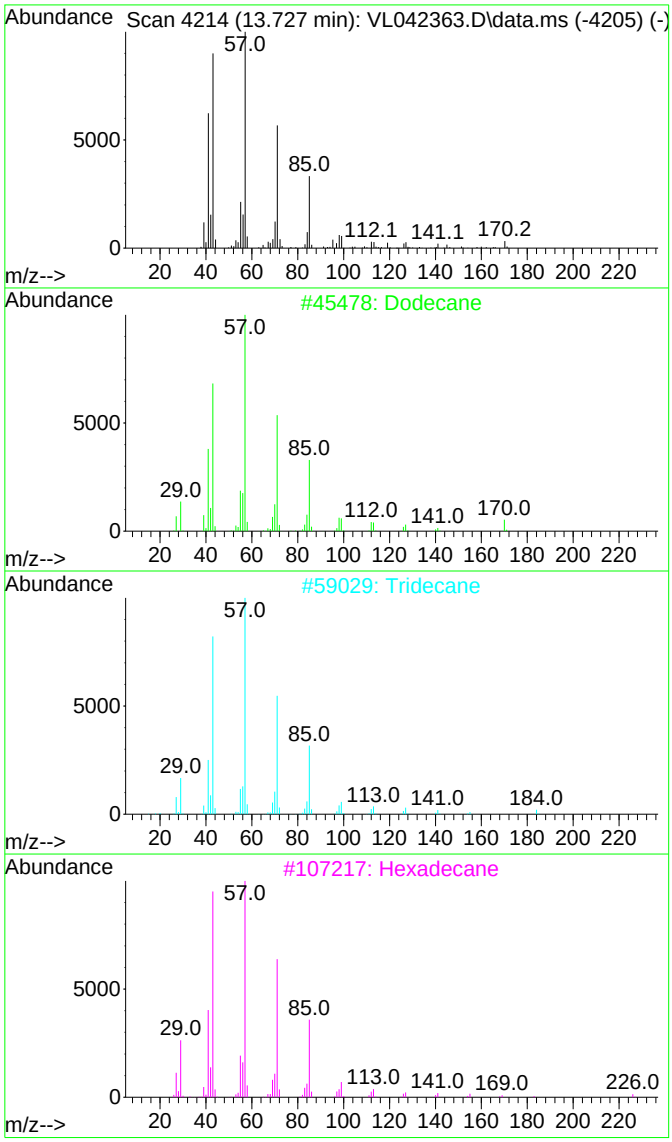
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TIC Integration Parameters: LSCINT.P

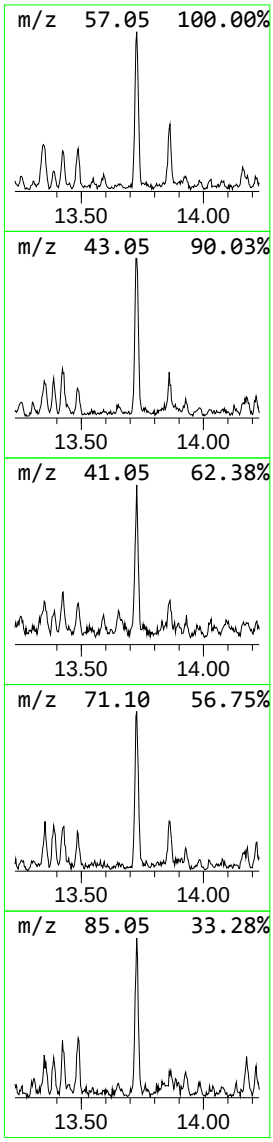
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Peak Number 10 Dodecane Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.727	2.05 ppbv	237426	Chlorobenzene-d5	8.882

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dodecane	170	C12H26	000112-40-3	95
2	Tridecane	184	C13H28	000629-50-5	86
3	Hexadecane	226	C16H34	000544-76-3	86
4	Hexadecane	226	C16H34	000544-76-3	86
5	Undecane	156	C11H24	001120-21-4	72





Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042363.D
Acq On : 17 Apr 2025 18:24
Operator : SY/MD
Sample : Q1668-03
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-3-3252025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Pentane, 2,4-di...	4.049	2.4	ppbv	222391	2	3.959	930875	10.0
Hexane, 3-methyl-	4.266	3.1	ppbv	288179	2	3.959	930875	10.0
Cyclohexanone	9.629	3.0	ppbv	345405	3	8.882	1157960	10.0
Octane, 2-methyl-	9.730	2.1	ppbv	247258	3	8.882	1157960	10.0
Decane	11.752	3.6	ppbv	416809	3	8.882	1157960	10.0
Benzene, 1-meth...	12.225	1.9	ppbv	224174	3	8.882	1157960	10.0
Benzene, 2-ethy...	12.591	2.7	ppbv	313084	3	8.882	1157960	10.0
Undecane	12.827	2.3	ppbv	262228	3	8.882	1157960	10.0
Naphthalene, 1,...	13.332	1.9	ppbv	224548	3	8.882	1157960	10.0
Dodecane	13.727	2.0	ppbv	237426	3	8.882	1157960	10.0

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Fax : 908 789 8922

Report of Analysis

Client:	Woodard & Curran	Date Collected:	03/26/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	03/27/25
Client Sample ID:	IA-B1-3-3252025DL	SDG No.:	Q1668
Lab Sample ID:	Q1668-03DL	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042375.D	4		04/18/25 00:59	VL041725

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.84	4.15	UD	4.15	9.89	ug/m3
74-87-3	Chloromethane	0.78	1.61	JD	0.81	4.13	ug/m3
75-01-4	Vinyl Chloride	0.060	0.15	UD	0.15	0.31	ug/m3
74-83-9	Bromomethane	0.56	2.17	UD	2.17	7.77	ug/m3
75-00-3	Chloroethane	0.68	1.79	UD	1.79	5.28	ug/m3
109-99-9	Tetrahydrofuran	0.52	1.53	UD	1.53	5.90	ug/m3
75-69-4	Trichlorofluoromethane	0.64	3.60	UD	3.60	11.2	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	0.64	4.91	UD	4.91	15.3	ug/m3
76-14-2	Dichlorotetrafluoroethane	0.35	2.45	UD	2.45	14.0	ug/m3
75-65-0	tert-Butyl alcohol	0.76	2.30	UD	2.30	6.06	ug/m3
142-82-5	Heptane	1.70	6.97	JD	1.80	8.20	ug/m3
75-35-4	1,1-Dichloroethene	0.56	2.22	UD	2.22	7.93	ug/m3
67-64-1	Acetone	6.40	15.2	D	2.28	4.75	ug/m3
75-15-0	Carbon Disulfide	0.64	1.99	UD	1.99	6.23	ug/m3
1634-04-4	Methyl tert-Butyl Ether	0.48	1.73	UD	1.73	7.21	ug/m3
75-09-2	Methylene Chloride	2.60	9.03	D	2.64	6.95	ug/m3
156-60-5	trans-1,2-Dichloroethene	0.76	3.01	UD	3.01	7.93	ug/m3
75-34-3	1,1-Dichloroethane	0.52	2.10	UD	2.10	8.09	ug/m3
110-82-7	Cyclohexane	1.90	6.54	JD	3.03	6.88	ug/m3
78-93-3	2-Butanone	0.84	2.48	JD	1.42	5.90	ug/m3
56-23-5	Carbon Tetrachloride	0.040	0.25	UD	0.25	0.75	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.36	1.43	UD	1.43	7.93	ug/m3
67-66-3	Chloroform	0.33	1.61	UD	1.61	9.77	ug/m3
71-55-6	1,1,1-Trichloroethane	0.040	0.22	UD	0.22	0.65	ug/m3
540-84-1	2,2,4-Trimethylpentane	0.40	1.87	UD	1.87	9.34	ug/m3
71-43-2	Benzene	0.67	2.14	JD	1.12	6.39	ug/m3
107-06-2	1,2-Dichloroethane	0.36	1.46	UD	1.46	8.09	ug/m3
79-01-6	Trichloroethene	0.070	0.38	UD	0.38	0.64	ug/m3
78-87-5	1,2-Dichloropropane	0.44	2.03	UD	2.03	9.24	ug/m3
75-27-4	Bromodichloromethane	0.31	2.08	UD	2.08	13.4	ug/m3
108-10-1	4-Methyl-2-Pentanone	16.0	65.6	D	1.52	8.20	ug/m3
108-88-3	Toluene	1.50	5.65	JD	1.66	7.54	ug/m3
10061-02-6	t-1,3-Dichloropropene	0.24	1.09	UD	1.09	9.08	ug/m3
10061-01-5	cis-1,3-Dichloropropene	0.26	1.18	UD	1.18	9.08	ug/m3
79-00-5	1,1,2-Trichloroethane	0.28	1.53	UD	1.53	10.9	ug/m3

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Fax : 908 789 8922

Report of Analysis

Client:	Woodard & Curran	Date Collected:	03/26/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	03/27/25
Client Sample ID:	IA-B1-3-3252025DL	SDG No.:	Q1668
Lab Sample ID:	Q1668-03DL	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042375.D	4		04/18/25 00:59	VL041725

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	0.26	2.22	UD	2.22	17.0	ug/m3
106-93-4	1,2-Dibromoethane	0.29	2.23	UD	2.23	3.07	ug/m3
127-18-4	Tetrachloroethene	0.060	0.41	UD	0.41	0.81	ug/m3
108-90-7	Chlorobenzene	0.30	1.38	UD	1.38	9.21	ug/m3
100-41-4	Ethyl Benzene	1.20	5.21	JD	2.08	8.69	ug/m3
179601-23-1	m/p-Xylene	8.40	36.5	D	3.65	17.4	ug/m3
95-47-6	o-Xylene	2.80	12.2	D	2.08	8.69	ug/m3
100-42-5	Styrene	0.83	3.53	JD	1.87	8.52	ug/m3
75-25-2	Bromoform	0.23	2.38	UD	2.38	20.7	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	0.040	0.27	UD	0.27	0.82	ug/m3
95-49-8	2-Chlorotoluene	0.44	2.28	UD	2.28	10.4	ug/m3
108-67-8	1,3,5-Trimethylbenzene	1.90	9.34	JD	2.16	9.83	ug/m3
95-63-6	1,2,4-Trimethylbenzene	5.70	28.0	D	1.52	9.83	ug/m3
541-73-1	1,3-Dichlorobenzene	0.32	1.92	UD	1.92	12.0	ug/m3
106-46-7	1,4-Dichlorobenzene	0.21	1.26	UD	1.26	12.0	ug/m3
95-50-1	1,2-Dichlorobenzene	0.30	1.80	UD	1.80	12.0	ug/m3
120-82-1	1,2,4-Trichlorobenzene	0.34	2.52	UD	2.52	14.8	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	0.34	3.63	UD	3.63	21.3	ug/m3
106-99-0	1,3-Butadiene	0.52	1.15	UD	1.15	4.42	ug/m3
91-20-3	Naphthalene	0.40	2.10	D	1.57	2.10	ug/m3
622-96-8	4-Ethyltoluene	1.40	6.88	JD	2.36	9.83	ug/m3
110-54-3	Hexane	3.20	11.3	D	1.55	7.05	ug/m3
107-05-1	Allyl Chloride	0.60	1.88	UD	1.88	6.26	ug/m3
123-91-1	1,4-Dioxane	0.84	3.03	UD	3.03	7.21	ug/m3
80-62-6	Methyl Methacrylate	0.34	1.39	UD	1.39	8.19	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	10.2			70 (65) - 130 (135)	102%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	103000		2.787			
540-36-3	1,4-Difluorobenzene	291000		3.955			
3114-55-4	Chlorobenzene-d5	254000		8.878			

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Fax : 908 789 8922

Report of Analysis

Client:	Woodard & Curran	Date Collected:	03/26/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	03/27/25
Client Sample ID:	IA-B1-3-3252025DL	SDG No.:	Q1668
Lab Sample ID:	Q1668-03DL	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042375.D	4		04/18/25 00:59	VL041725

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
RL = Reporting Limit
MDL = Method Detection Limit
E = Value Exceeds Calibration Range
D = Dilution

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
Q = indicates LCS control criteria did not meet requirements

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042375.D
Acq On : 18 Apr 2025 00:59
Operator : SY/MD
Sample : Q1668-03DL 4X
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 18 04:38:48 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-3-3252025DL

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.787	49	102685	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.955	114	291278	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.878	117	253844	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.374	95	212240	10.175	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 101.700%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.499	85	2776	0.153	ppbv		95
4) Chloromethane	1.531	50	1399	0.195	ppbv	#	59
9) Propene	1.486	41	1821	0.231	ppbv		93
10) Heptane	4.978	43	9132	0.413	ppbv		97
13) Ethanol	1.719	45	62213	49.750	ppbv		76
15) Acetone	1.835	43	27092	1.612	ppbv		99
19) Isopropyl Alcohol	1.887	45	6854	0.734	ppbv	#	1
20) Methylene Chloride	2.059	84	4314	0.655	ppbv	#	91
26) Hexane	2.826	57	13454	0.802	ppbv	#	34
30) Cyclohexane	3.852	84	6275	0.463	ppbv	#	89
34) 2-Butanone	2.560	43	4829	0.210	ppbv		92
36) Benzene	3.658	78	5293m	0.168	ppbv		
50) 4-Methyl-2-Pentanone	5.755	43	153256	4.003	ppbv		98
53) Toluene	6.930	91	14415m	0.382	ppbv		
58) Ethyl Benzene	9.354	91	14757	0.293	ppbv		95
59) m/p-Xylene	9.529	91	84682	2.090	ppbv		99
60) o-Xylene	9.963	91	28511	0.699	ppbv		100
61) Styrene	9.869	104	4030m	0.207	ppbv		
64) n-propylbenzene	10.985	120	2319	0.154	ppbv	#	52
70) n-Butylbenzene	12.287	91	8652m	0.125	ppbv		
72) 4-Ethyltoluene	11.121	105	17311	0.347	ppbv	#	56
73) 1,3,5-Trimethylbenzene	11.202	105	20692	0.470	ppbv		100
74) 1,2,4-Trimethylbenzene	11.536	105	73024	1.420	ppbv	#	61
79) Naphthalene	13.510	128	6160	0.100	ppbv	#	96

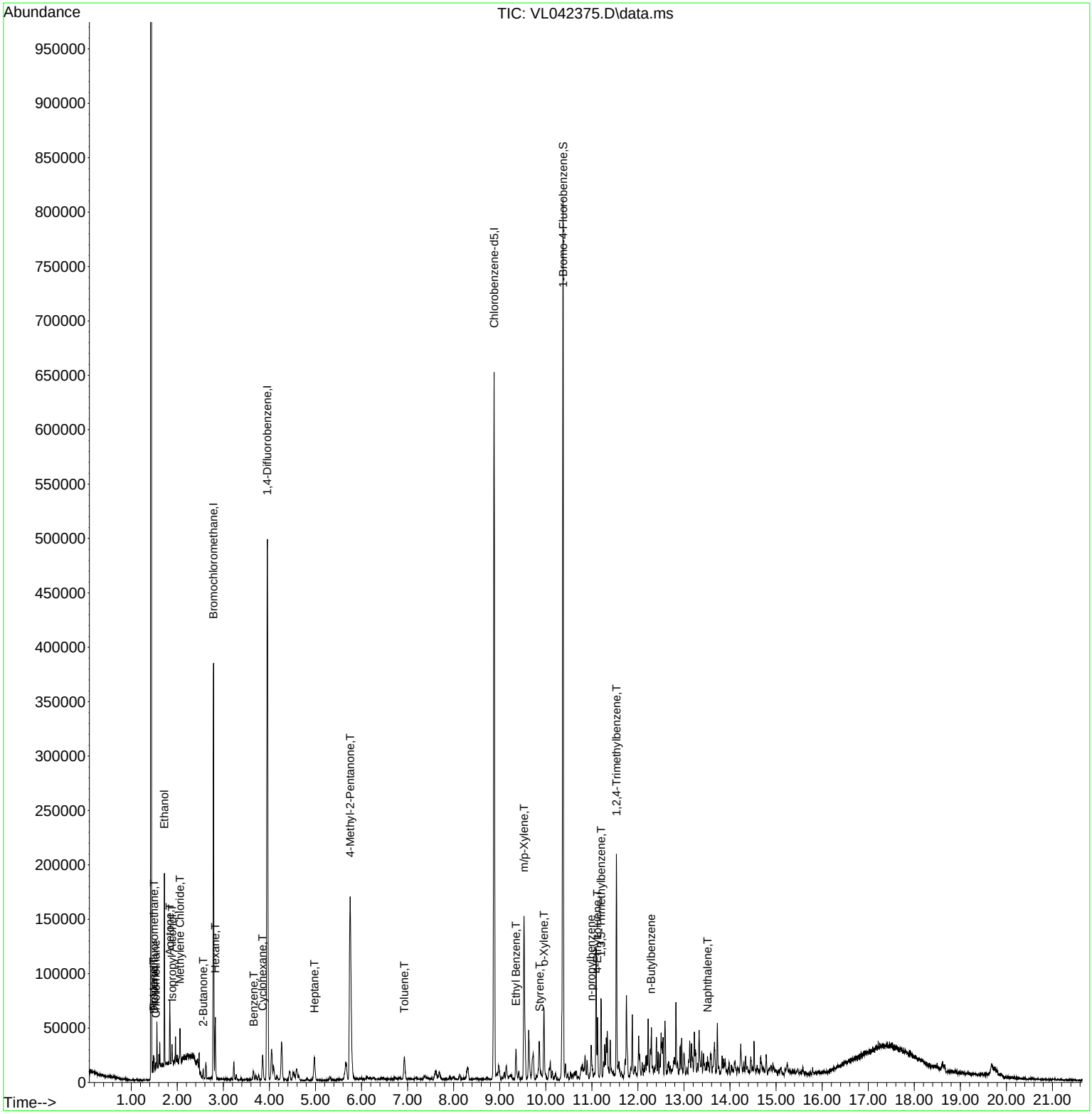
(#) = qualifier out of range (m) = manual integration (+) = signals summed

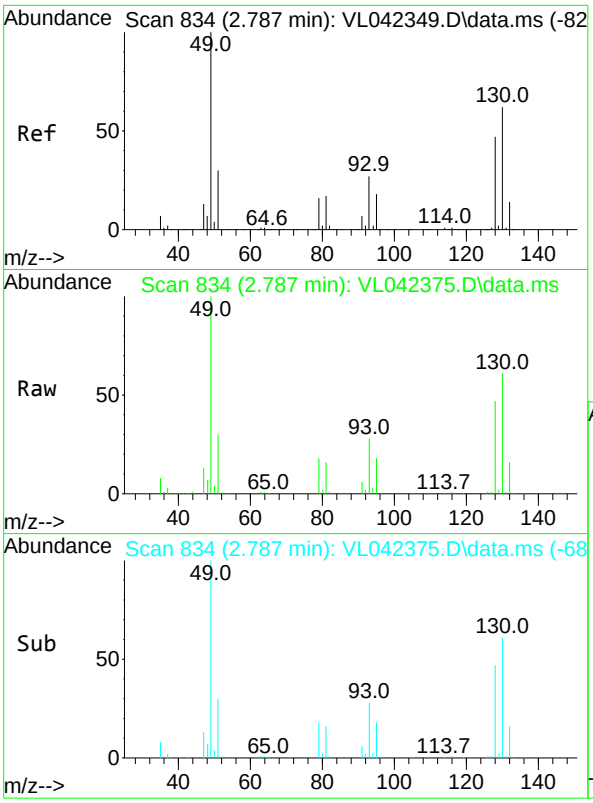
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042375.D
Acq On : 18 Apr 2025 00:59
Operator : SY/MD
Sample : Q1668-03DL 4X
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 18 04:38:48 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-3-3252025DL

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

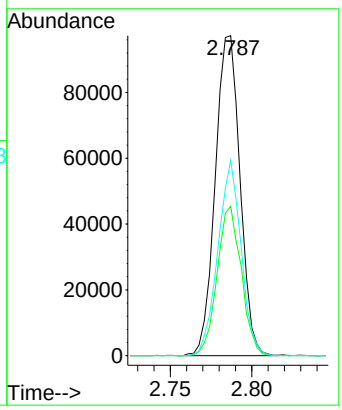




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 8
Delta R.T. 0.000 min
Lab File: VL042375.D
Acq: 18 Apr 2025 00:59

Tgt Ion: 49 Resp: 10268

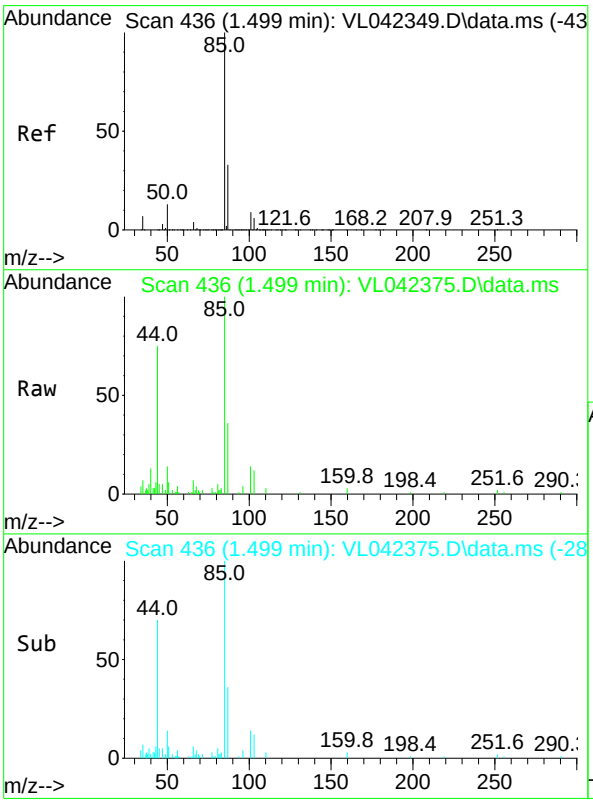
Ion	Ratio	Lower	Upper
49	100		
128	45.4	22.8	68.4
130	57.2	29.3	88.0



Instrument :
MSVOA_L
ClientSampleId :
IA-B1-3-3252025DL

Manual Integrations
APPROVED

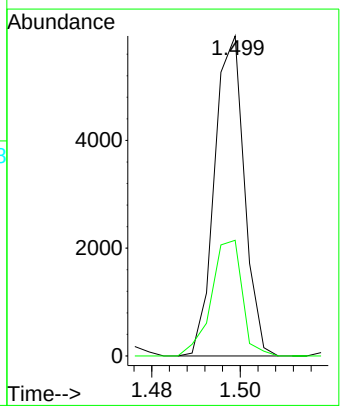
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

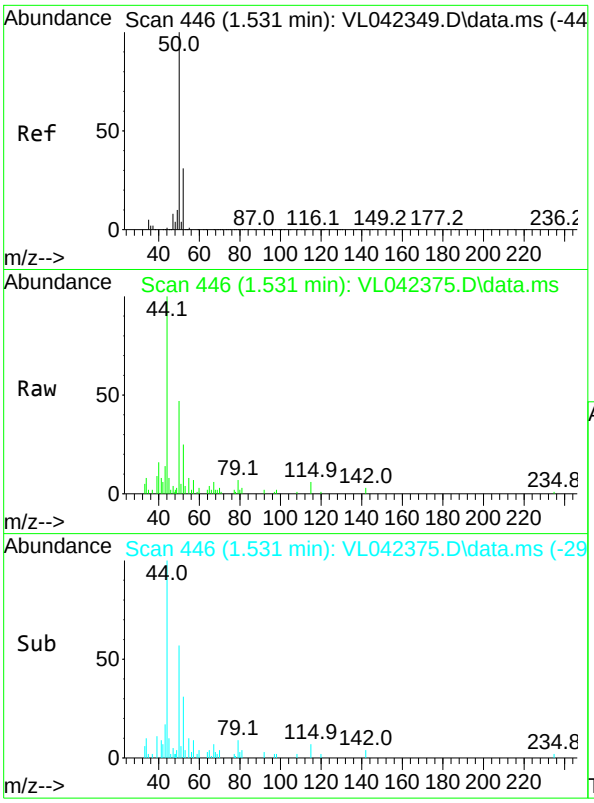


#2
Dichlorodifluoromethane
Concen: 0.153 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.000 min
Lab File: VL042375.D
Acq: 18 Apr 2025 00:59

Tgt Ion: 85 Resp: 2776

Ion	Ratio	Lower	Upper
85	100		
87	36.2	26.6	39.8

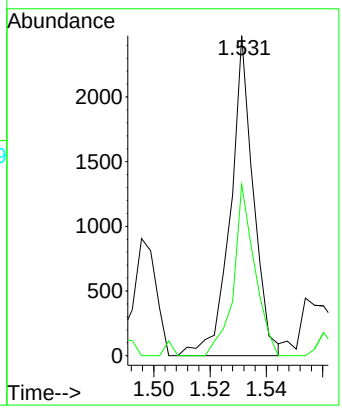




#4
Chloromethane
Concen: 0.195 ppbv
RT: 1.531 min Scan# 44
Delta R.T. 0.000 min
Lab File: VL042375.D
Acq: 18 Apr 2025 00:59

Tgt Ion: 50 Resp: 139

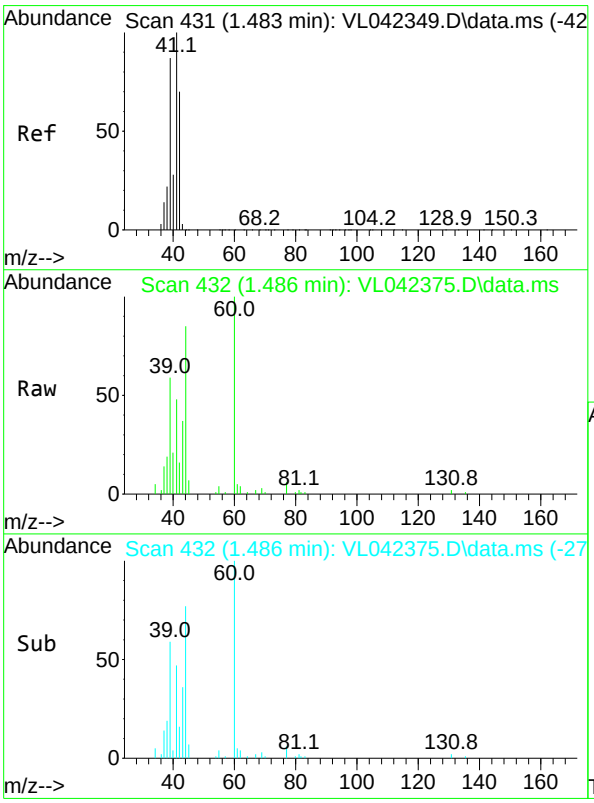
Ion	Ratio	Lower	Upper
50	100		
52	53.5	24.7	37.1



Instrument :
MSVOA_L
ClientSampleId :
IA-B1-3-3252025DL

Manual Integrations
APPROVED

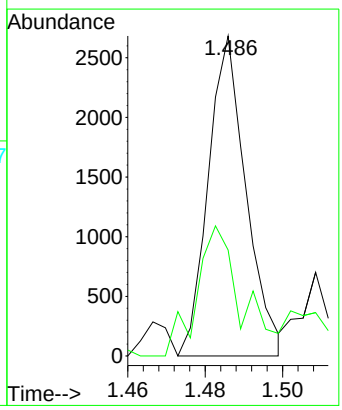
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

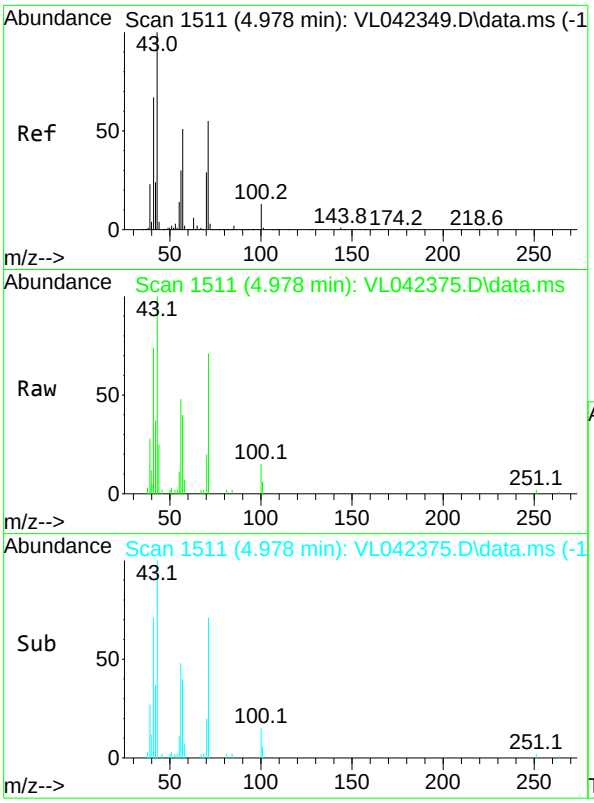


#9
Propene
Concen: 0.231 ppbv
RT: 1.486 min Scan# 432
Delta R.T. 0.003 min
Lab File: VL042375.D
Acq: 18 Apr 2025 00:59

Tgt Ion: 41 Resp: 1821

Ion	Ratio	Lower	Upper
41	100		
42	64.4	56.2	84.4

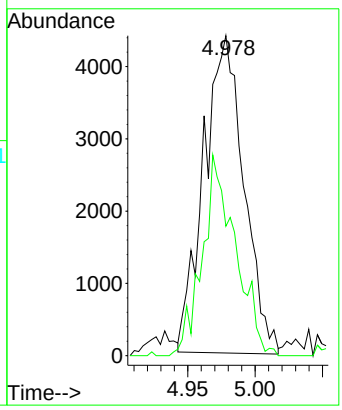




#10
Heptane
Concen: 0.413 ppbv
RT: 4.978 min Scan# 1
Delta R.T. 0.000 min
Lab File: VL042375.D
Acq: 18 Apr 2025 00:59

Tgt Ion: 43 Resp: 913

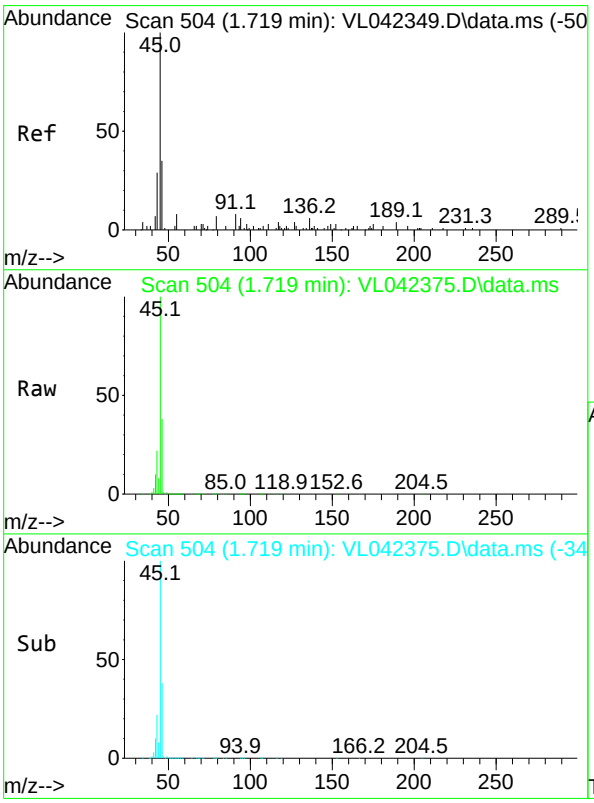
Ion	Ratio	Lower	Upper
43	100		
57	52.1	39.9	59.9



Instrument :
MSVOA_L
ClientSampleId :
IA-B1-3-3252025DL

Manual Integrations
APPROVED

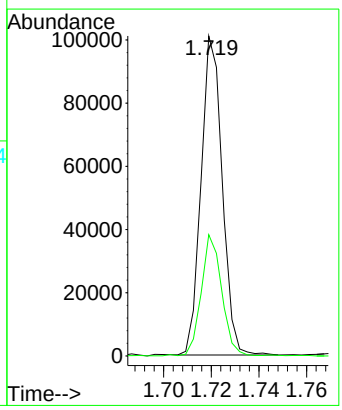
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

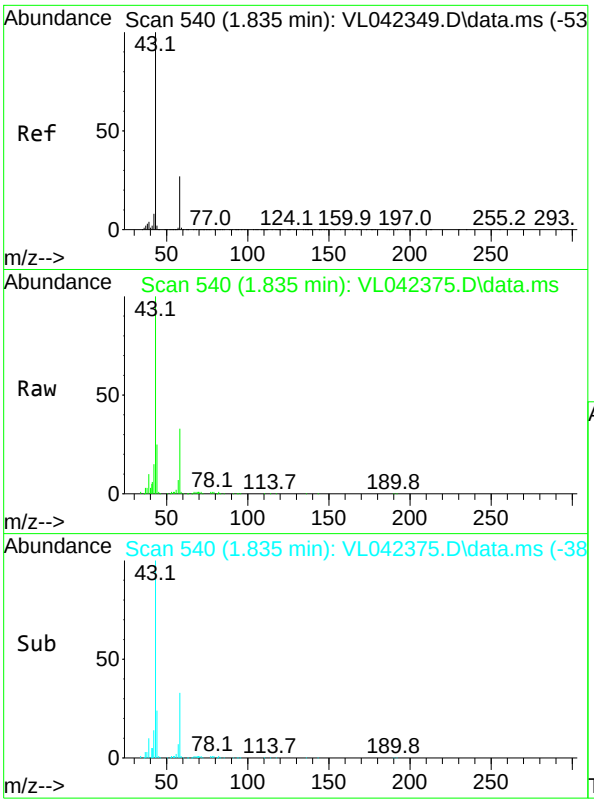


#13
Ethanol
Concen: 49.750 ppbv
RT: 1.719 min Scan# 504
Delta R.T. 0.000 min
Lab File: VL042375.D
Acq: 18 Apr 2025 00:59

Tgt Ion: 45 Resp: 62213

Ion	Ratio	Lower	Upper
45	100		
46	37.6	21.9	87.7

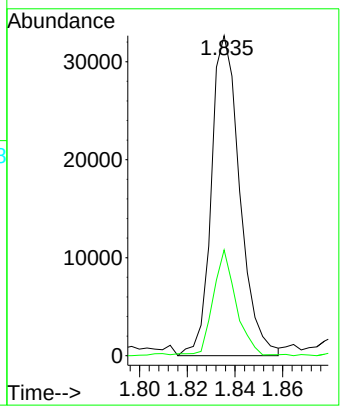




#15
Acetone
Concen: 1.612 ppbv
RT: 1.835 min Scan# 54
Delta R.T. 0.000 min
Lab File: VL042375.D
Acq: 18 Apr 2025 00:59

Tgt Ion: 43 Resp: 2709

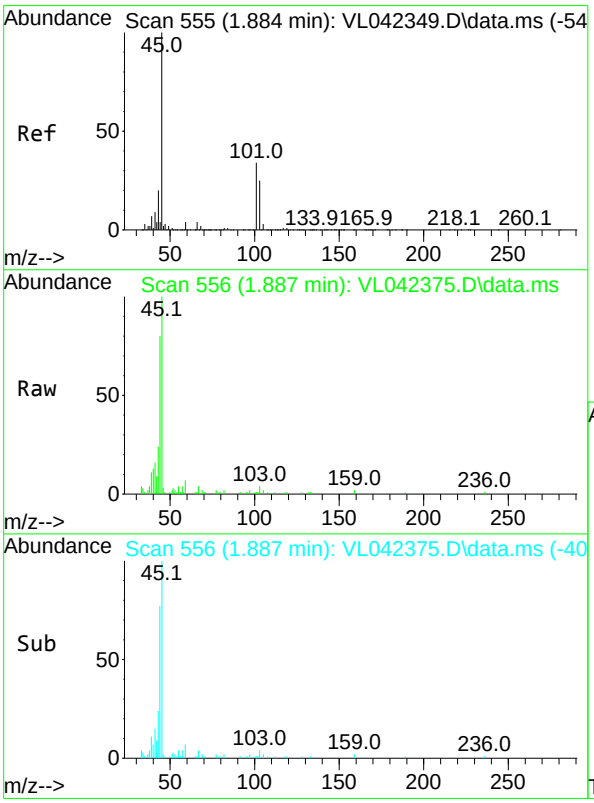
Ion	Ratio	Lower	Upper
43	100		
58	27.4	22.4	33.6



Instrument :
MSVOA_L
ClientSampleId :
IA-B1-3-3252025DL

Manual Integrations
APPROVED

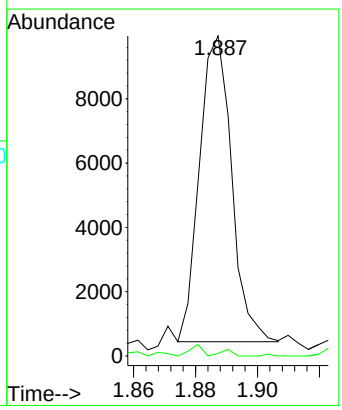
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

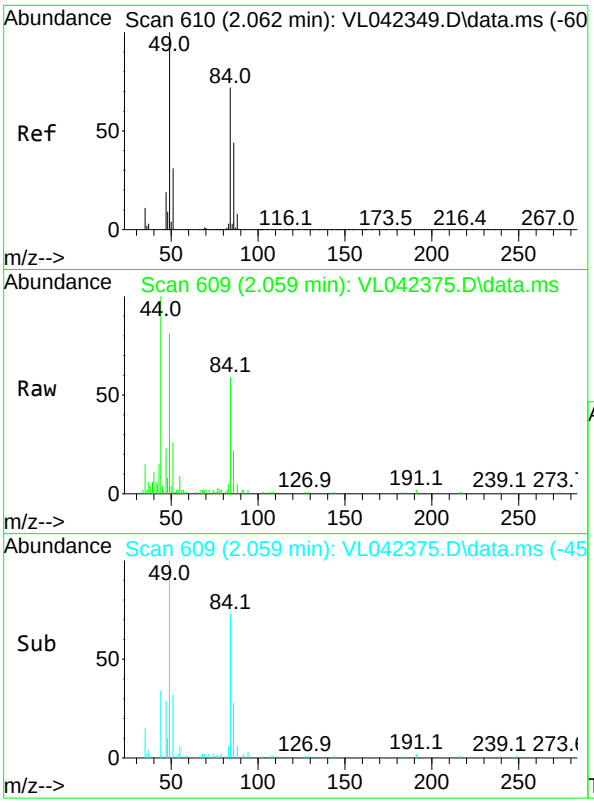


#19
Isopropyl Alcohol
Concen: 0.734 ppbv
RT: 1.887 min Scan# 556
Delta R.T. 0.003 min
Lab File: VL042375.D
Acq: 18 Apr 2025 00:59

Tgt Ion: 45 Resp: 6854

Ion	Ratio	Lower	Upper
45	100		
58	108.5	34.5	51.7#

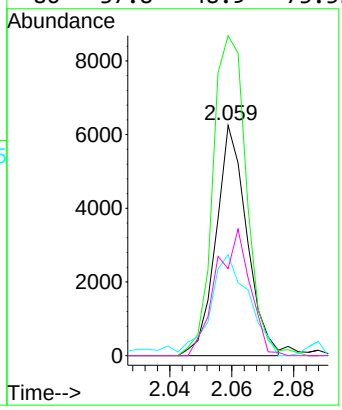




#20
Methylene Chloride
Concen: 0.655 ppbv
RT: 2.059 min Scan# 6
Delta R.T. -0.003 min
Lab File: VL042375.D
Acq: 18 Apr 2025 00:59

Tgt Ion: 84 Resp: 431

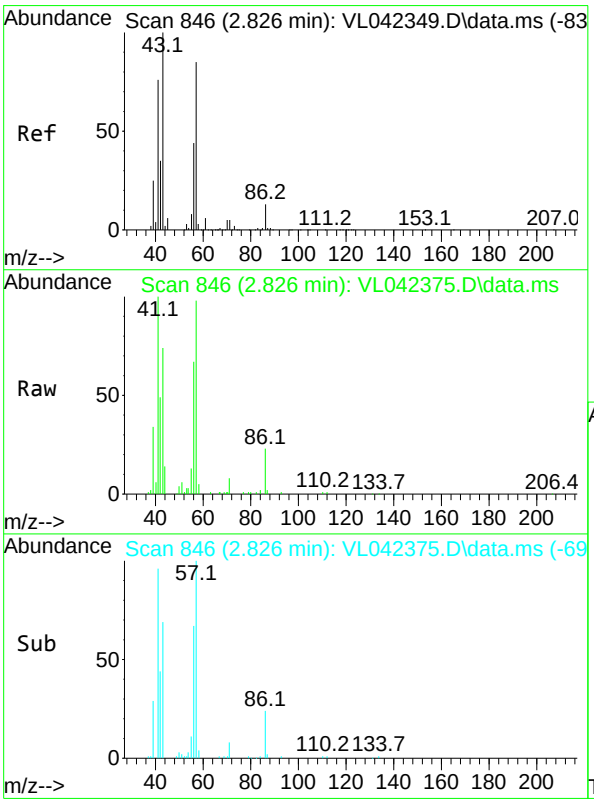
Ion	Ratio	Lower	Upper
84	100		
49	138.9	111.6	167.4
51	41.7	35.1	52.7
86	37.8	48.9	73.3#



Instrument :
MSVOA_L
ClientSampleId :
IA-B1-3-3252025DL

Manual Integrations
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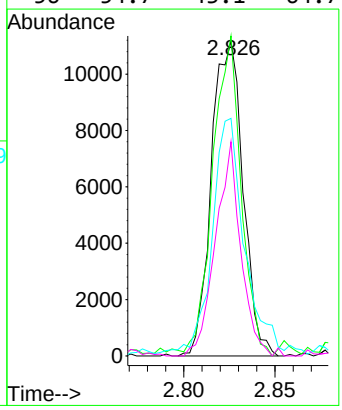
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

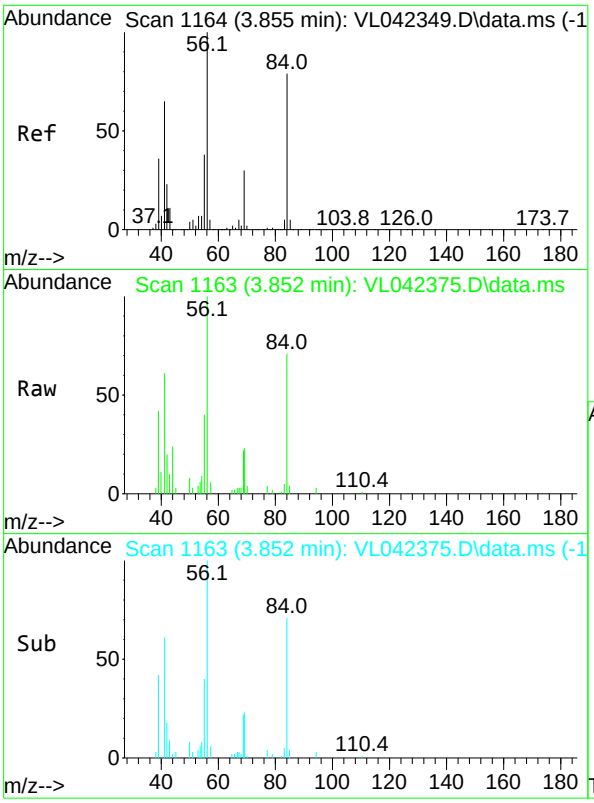


#26
Hexane
Concen: 0.802 ppbv
RT: 2.826 min Scan# 846
Delta R.T. 0.000 min
Lab File: VL042375.D
Acq: 18 Apr 2025 00:59

Tgt Ion: 57 Resp: 13454

Ion	Ratio	Lower	Upper
57	100		
41	91.8	77.9	116.9
43	78.3	208.4	312.6#
56	54.7	43.1	64.7

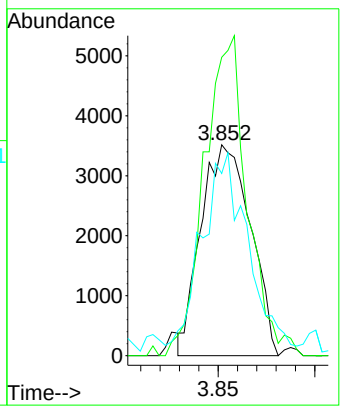




#30
Cyclohexane
Concen: 0.463 ppbv
RT: 3.852 min Scan# 11
Delta R.T. -0.003 min
Lab File: VL042375.D
Acq: 18 Apr 2025 00:59

Tgt Ion: 84 Resp: 627

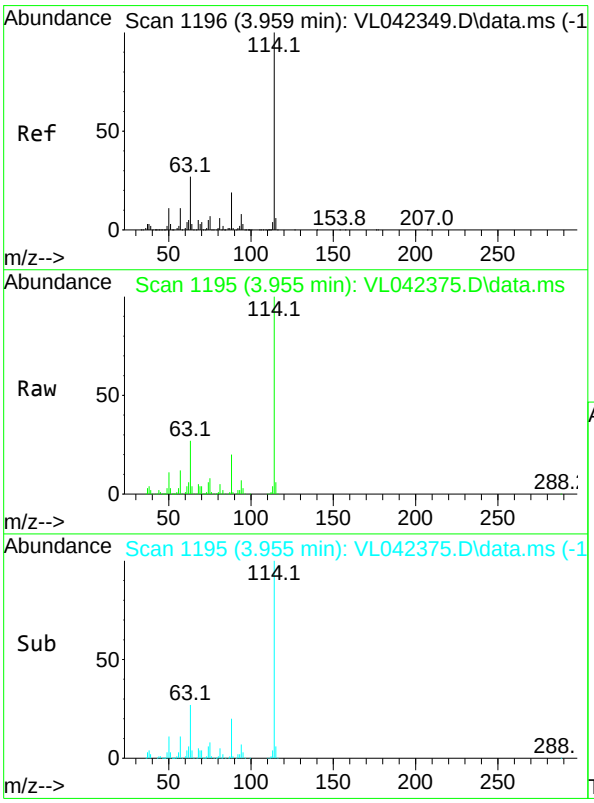
Ion	Ratio	Lower	Upper
84	100		
56	131.3	101.0	151.4
41	103.5	67.4	101.0#



Instrument :
MSVOA_L
ClientSampleId :
IA-B1-3-3252025DL

Manual Integrations
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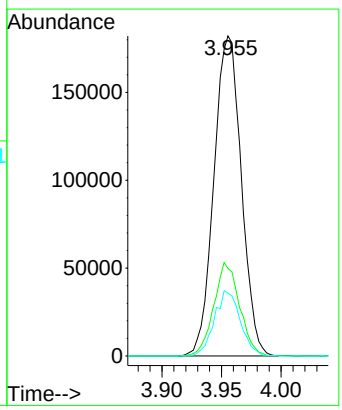
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

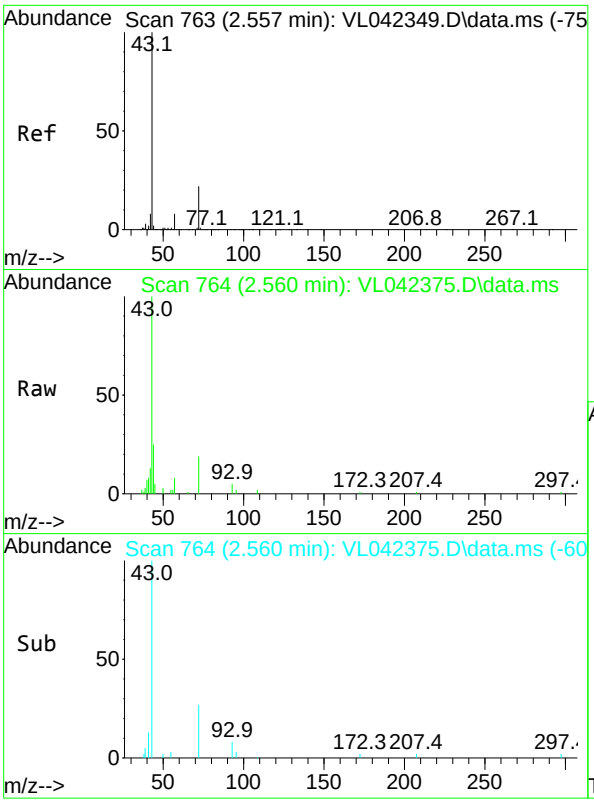


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.955 min Scan# 1195
Delta R.T. -0.003 min
Lab File: VL042375.D
Acq: 18 Apr 2025 00:59

Tgt Ion:114 Resp: 291278

Ion	Ratio	Lower	Upper
114	100		
63	27.5	21.8	32.6
88	19.2	15.5	23.3

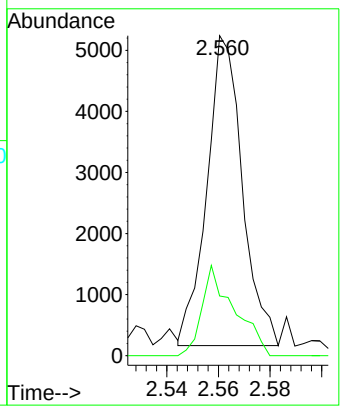




#34
2-Butanone
Concen: 0.210 ppbv
RT: 2.560 min Scan# 7
Delta R.T. 0.003 min
Lab File: VL042375.D
Acq: 18 Apr 2025 00:59

Tgt Ion: 43 Resp: 482

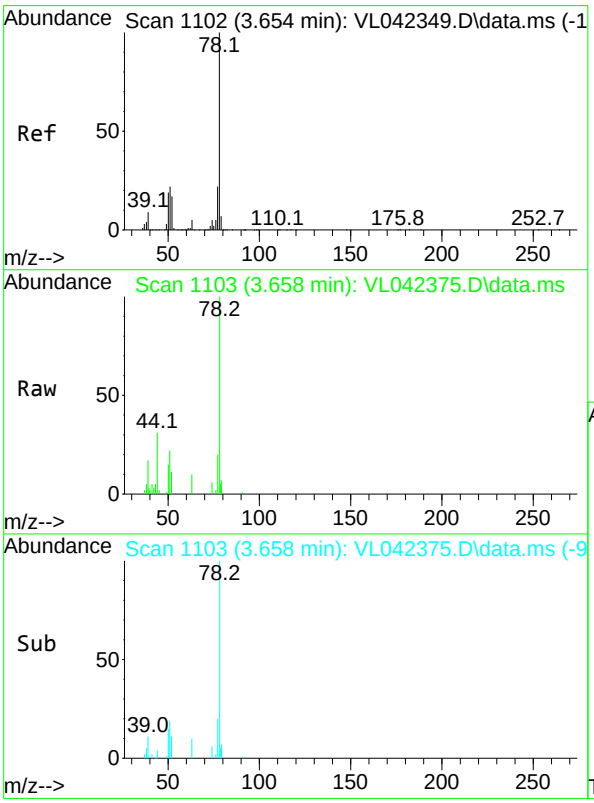
Ion	Ratio	Lower	Upper
43	100		
72	26.7	18.2	27.2



Instrument :
MSVOA_L
ClientSampleId :
IA-B1-3-3252025DL

Manual Integrations
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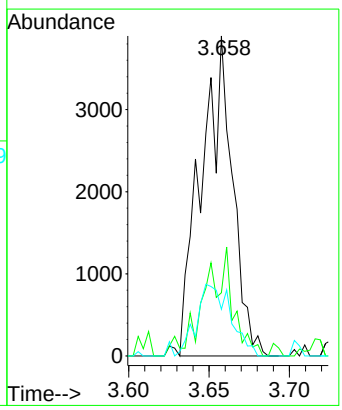
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

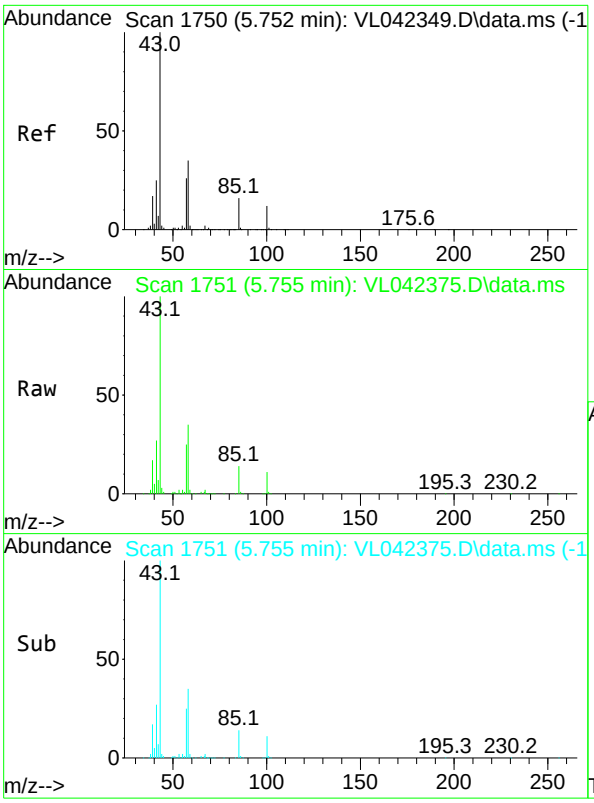


#36
Benzene
Concen: 0.168 ppbv m
RT: 3.658 min Scan# 1103
Delta R.T. 0.003 min
Lab File: VL042375.D
Acq: 18 Apr 2025 00:59

Tgt Ion: 78 Resp: 5293

Ion	Ratio	Lower	Upper
78	100		
77	19.8	17.4	26.0
50	14.6	15.5	23.3#

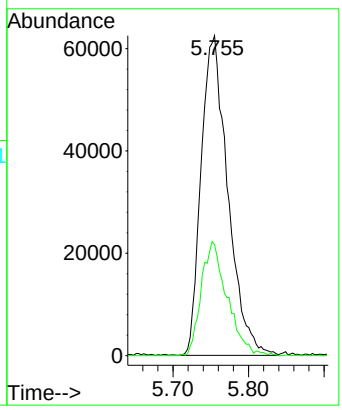




#50
4-Methyl-2-Pentanone
Concen: 4.003 ppbv
RT: 5.755 min Scan# 1
Delta R.T. 0.003 min
Lab File: VL042375.D
Acq: 18 Apr 2025 00:59

Tgt Ion: 43 Resp: 15325

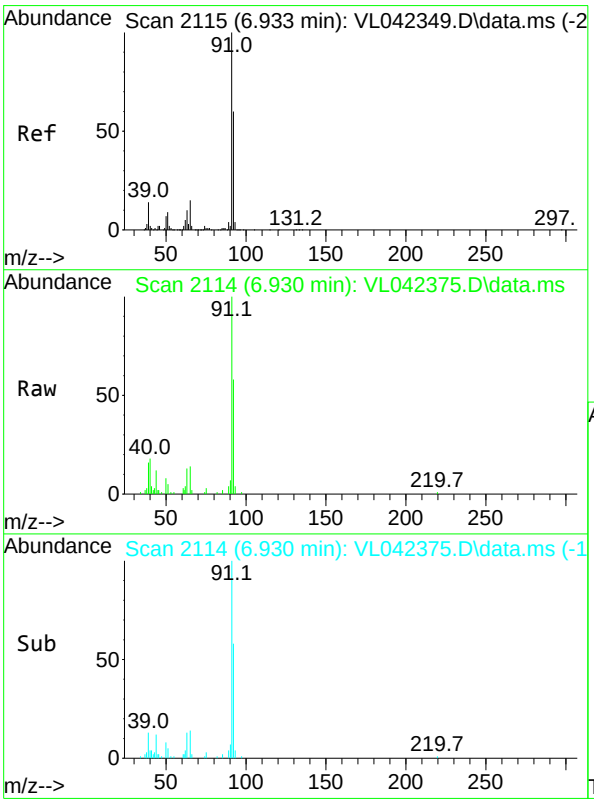
Ion	Ratio	Lower	Upper
43	100		
58	34.9	28.6	43.0



Instrument :
MSVOA_L
ClientSampleId :
IA-B1-3-3252025DL

Manual Integrations
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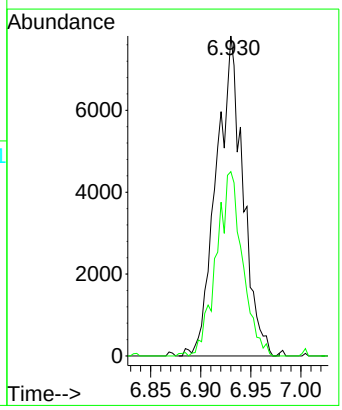
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

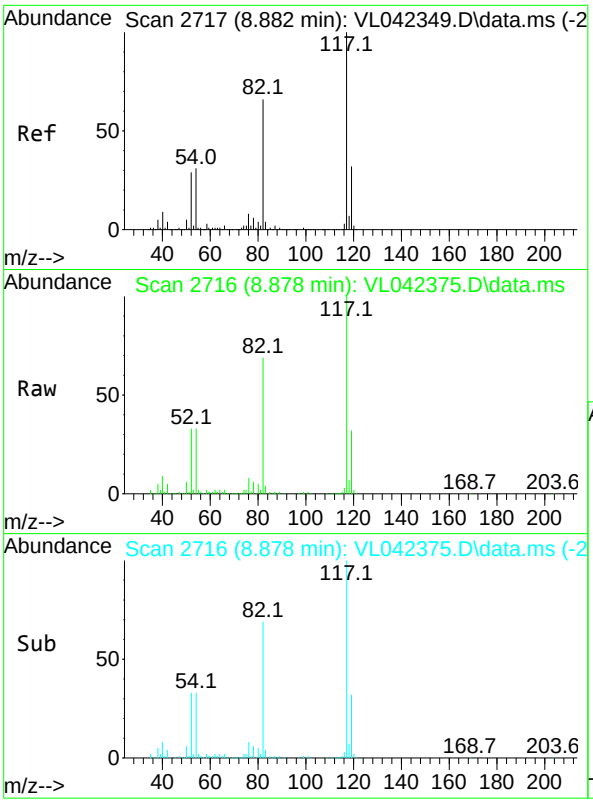


#53
Toluene
Concen: 0.382 ppbv m
RT: 6.930 min Scan# 2114
Delta R.T. -0.003 min
Lab File: VL042375.D
Acq: 18 Apr 2025 00:59

Tgt Ion: 91 Resp: 14415

Ion	Ratio	Lower	Upper
91	100		
92	56.7	48.2	72.4

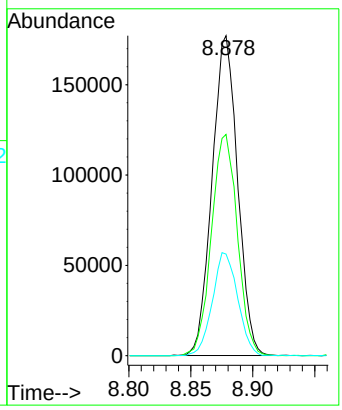




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.878 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL042375.D
Acq: 18 Apr 2025 00:59

Tgt Ion:117 Resp: 25384

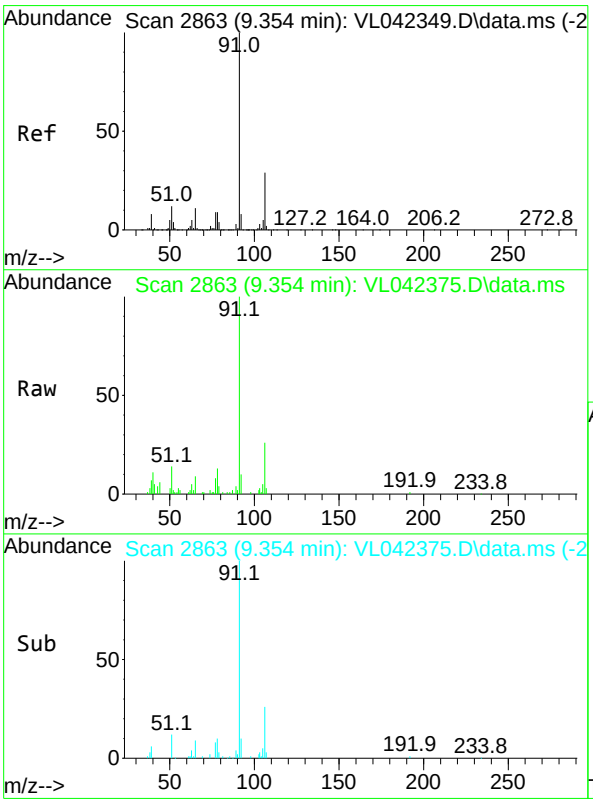
Ion	Ratio	Lower	Upper
117	100		
82	70.3	57.8	86.6
119	32.0	25.2	37.8



Instrument :
MSVOA_L
ClientSampleId :
IA-B1-3-3252025DL

Manual Integrations
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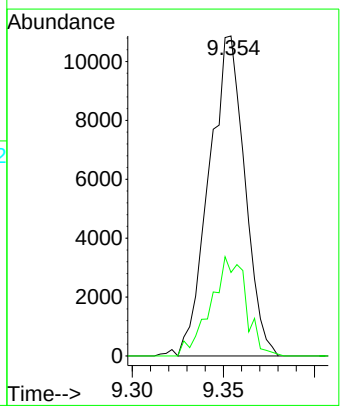
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

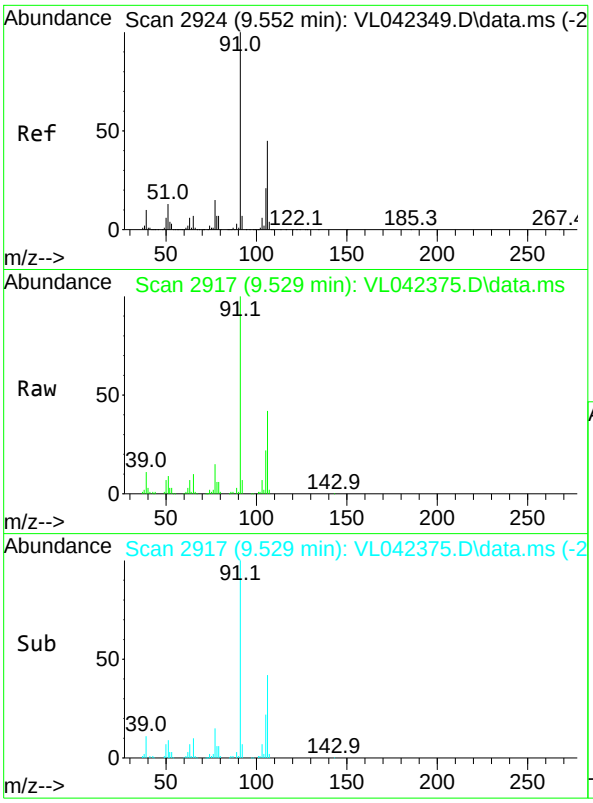


#58
Ethyl Benzene
Concen: 0.293 ppbv
RT: 9.354 min Scan# 2863
Delta R.T. 0.000 min
Lab File: VL042375.D
Acq: 18 Apr 2025 00:59

Tgt Ion: 91 Resp: 14757

Ion	Ratio	Lower	Upper
91	100		
106	26.1	23.0	34.4

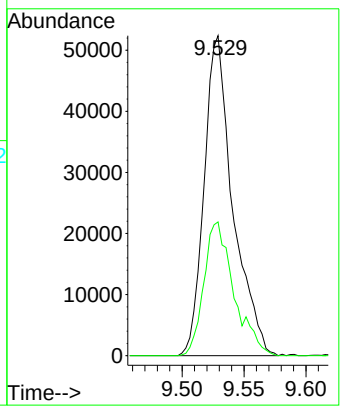




#59
m/p-Xylene
Concen: 2.090 ppbv
RT: 9.529 min Scan# 2
Delta R.T. -0.023 min
Lab File: VL042375.D
Acq: 18 Apr 2025 00:59

Tgt Ion: 91 Resp: 8468

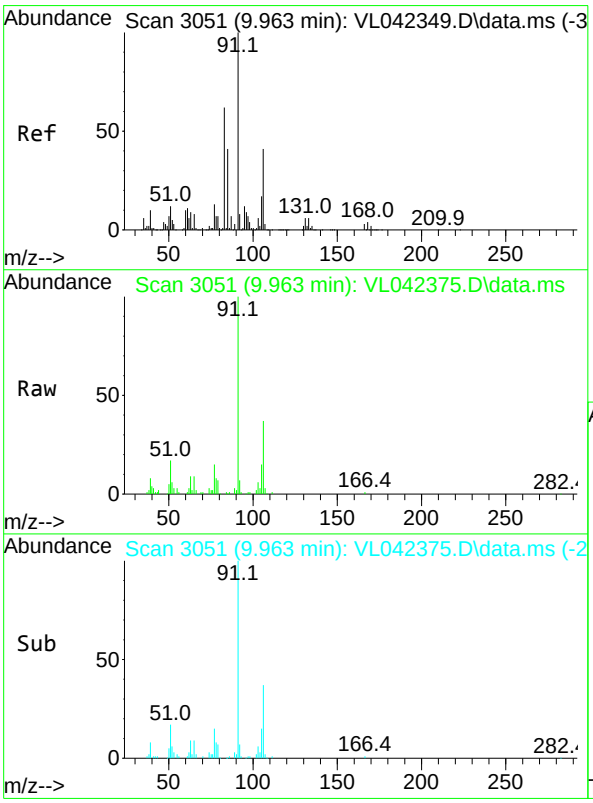
Ion	Ratio	Lower	Upper
91	100		
106	43.6	35.4	53.2



Instrument :
MSVOA_L
ClientSampleId :
IA-B1-3-3252025DL

Manual Integrations
APPROVED

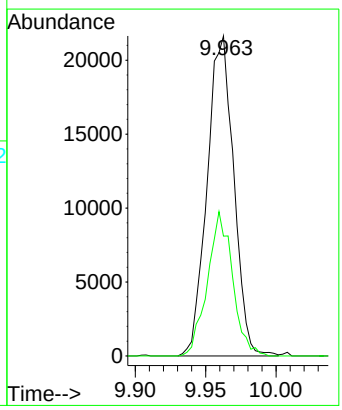
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

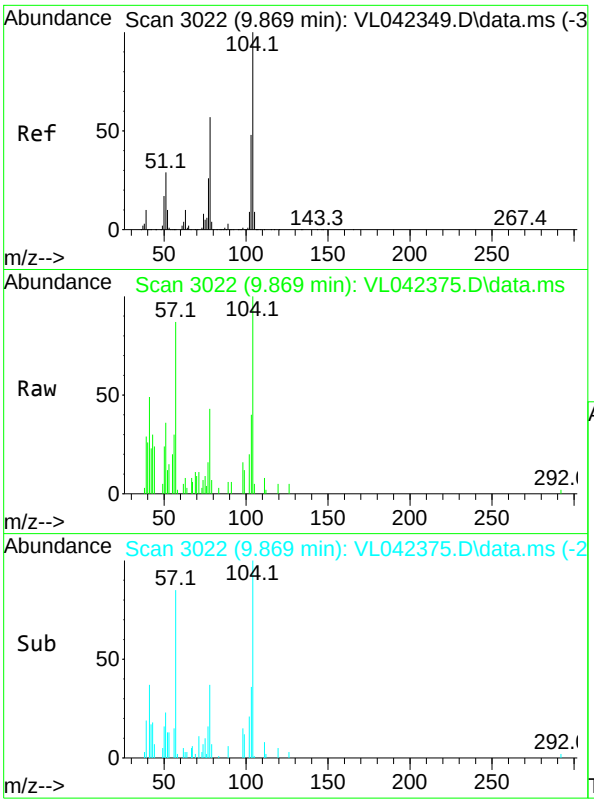


#60
o-Xylene
Concen: 0.699 ppbv
RT: 9.963 min Scan# 3051
Delta R.T. 0.000 min
Lab File: VL042375.D
Acq: 18 Apr 2025 00:59

Tgt Ion: 91 Resp: 28511

Ion	Ratio	Lower	Upper
91	100		
106	42.5	21.1	63.4

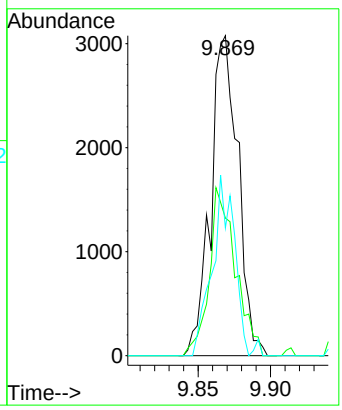




#61
Styrene
Concen: 0.207 ppbv m
RT: 9.869 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042375.D
Acq: 18 Apr 2025 00:59

Tgt Ion:104 Resp: 403

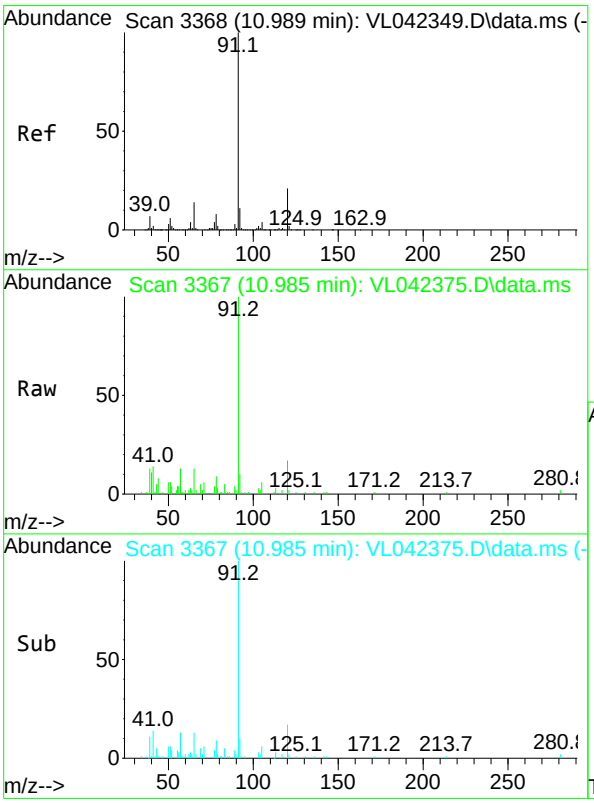
Ion	Ratio	Lower	Upper
104	100		
78	50.5	44.6	66.8
103	46.5	37.4	56.0



Instrument :
MSVOA_L
ClientSampleId :
IA-B1-3-3252025DL

Manual Integrations
APPROVED

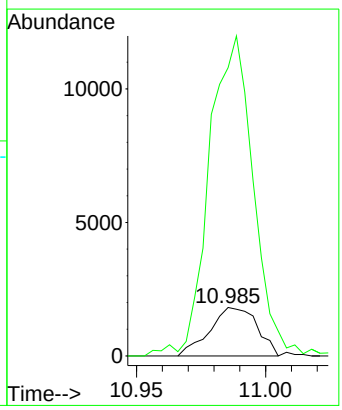
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

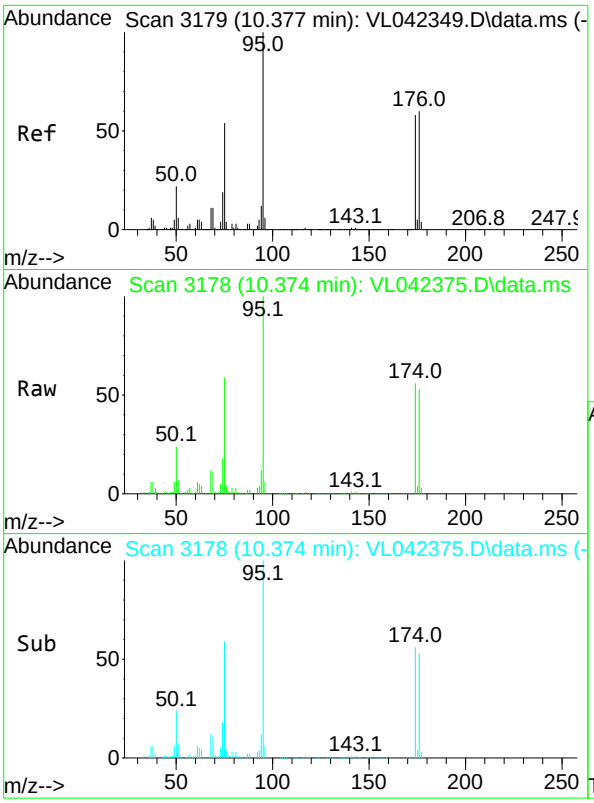


#64
n-propylbenzene
Concen: 0.154 ppbv
RT: 10.985 min Scan# 3367
Delta R.T. -0.003 min
Lab File: VL042375.D
Acq: 18 Apr 2025 00:59

Tgt Ion:120 Resp: 2319

Ion	Ratio	Lower	Upper
120	100		
91	620.8	392.4	588.6#

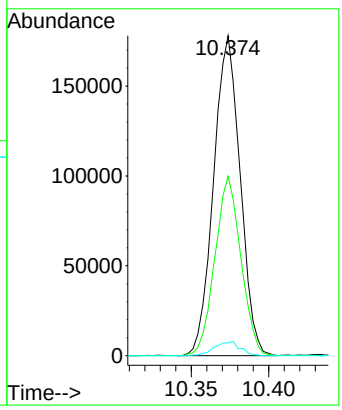




#68
1-Bromo-4-Fluorobenzene
Concen: 10.175 ppbv
RT: 10.374 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042375.D
Acq: 18 Apr 2025 00:59

Tgt Ion: 95 Resp: 21224

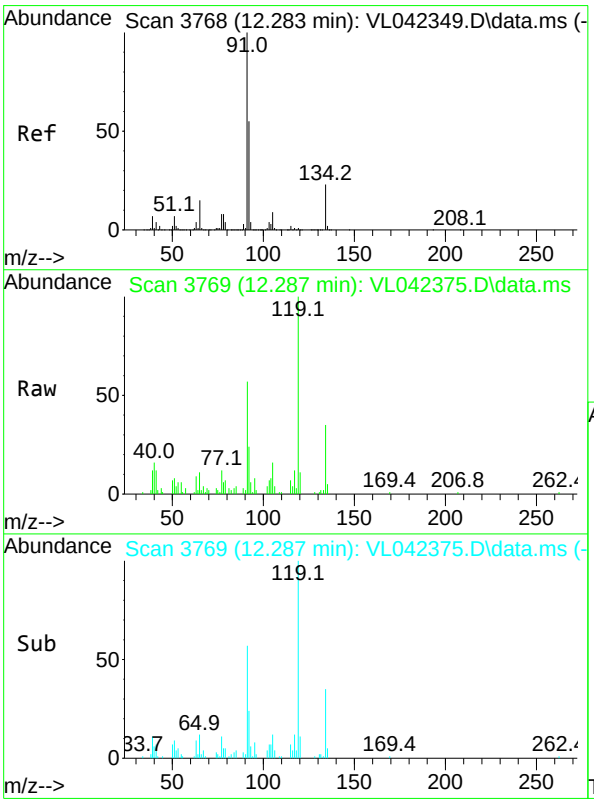
Ion	Ratio	Lower	Upper
95	100		
174	54.8	48.5	72.7
175	4.3	3.7	5.5



Instrument :
MSVOA_L
ClientSampleId :
IA-B1-3-3252025DL

Manual Integrations
APPROVED

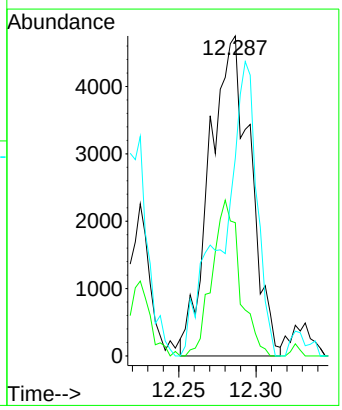
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

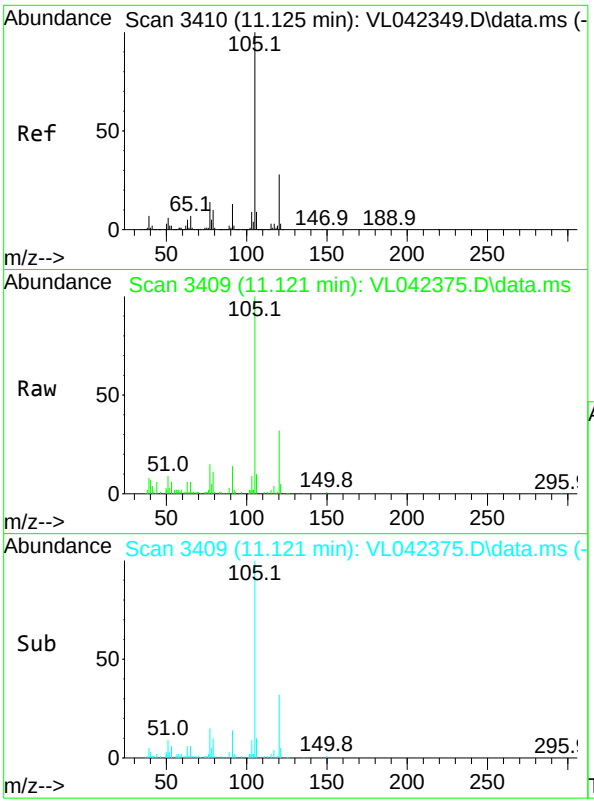


#70
n-Butylbenzene
Concen: 0.125 ppbv m
RT: 12.287 min Scan# 3769
Delta R.T. 0.003 min
Lab File: VL042375.D
Acq: 18 Apr 2025 00:59

Tgt Ion: 91 Resp: 8652

Ion	Ratio	Lower	Upper
91	100		
92	34.0	44.2	66.4#
134	0.0	18.2	27.4#

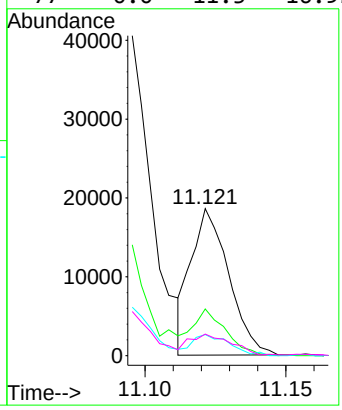




#72
4-Ethyltoluene
Concen: 0.347 ppbv
RT: 11.121 min Scan# 34
Delta R.T. -0.003 min
Lab File: VL042375.D
Acq: 18 Apr 2025 00:59

Tgt Ion:105 Resp: 1731

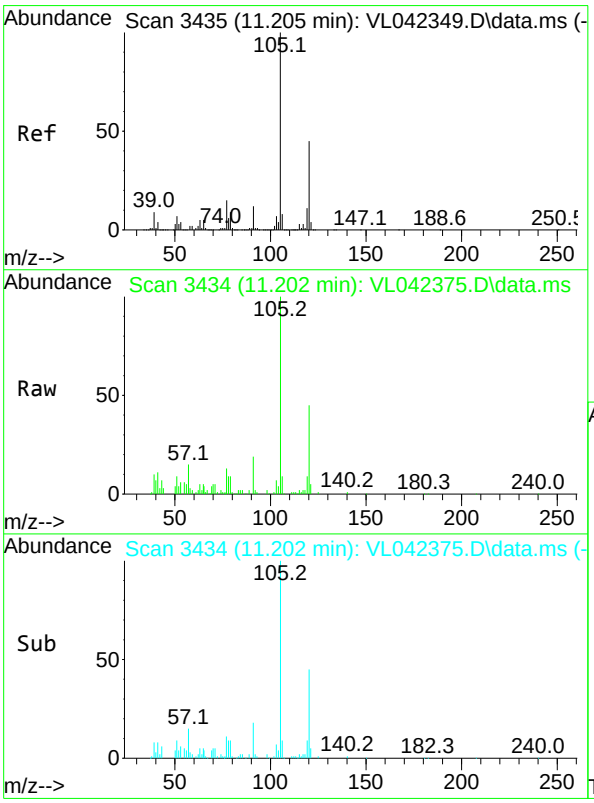
Ion	Ratio	Lower	Upper
105	100		
120	0.0	23.2	34.8#
91	0.0	10.4	15.6#
77	0.0	11.3	16.9#



Instrument :
MSVOA_L
ClientSampleId :
IA-B1-3-3252025DL

Manual Integrations
APPROVED

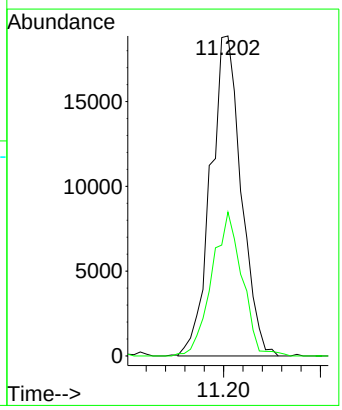
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

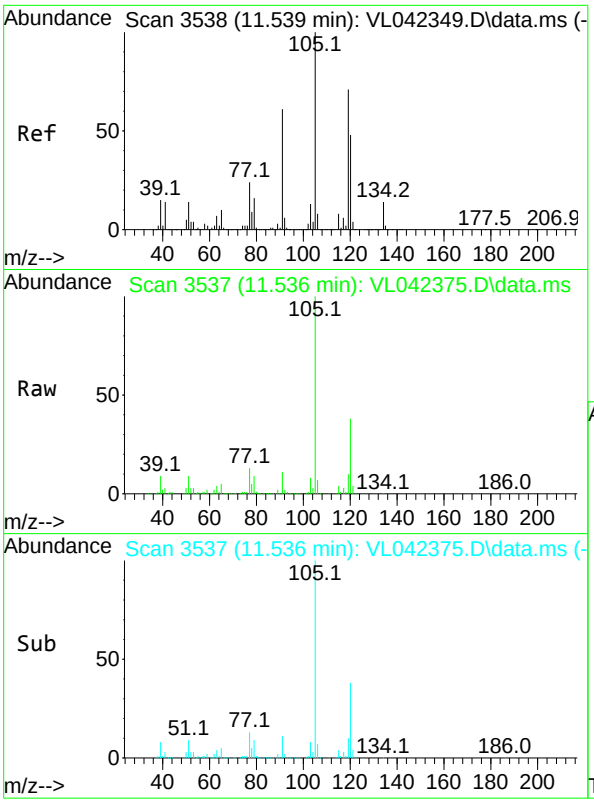


#73
1,3,5-Trimethylbenzene
Concen: 0.470 ppbv
RT: 11.202 min Scan# 3434
Delta R.T. -0.003 min
Lab File: VL042375.D
Acq: 18 Apr 2025 00:59

Tgt Ion:105 Resp: 20692

Ion	Ratio	Lower	Upper
105	100		
120	44.3	35.6	53.4

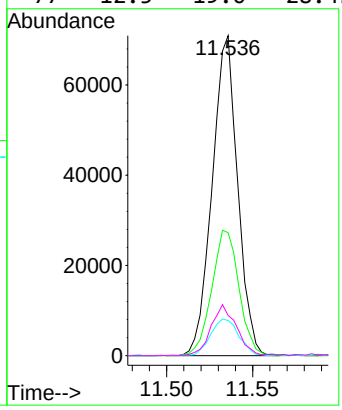




#74
1,2,4-Trimethylbenzene
Concen: 1.420 ppbv
RT: 11.536 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042375.D
Acq: 18 Apr 2025 00:59

Tgt Ion:105 Resp: 7302

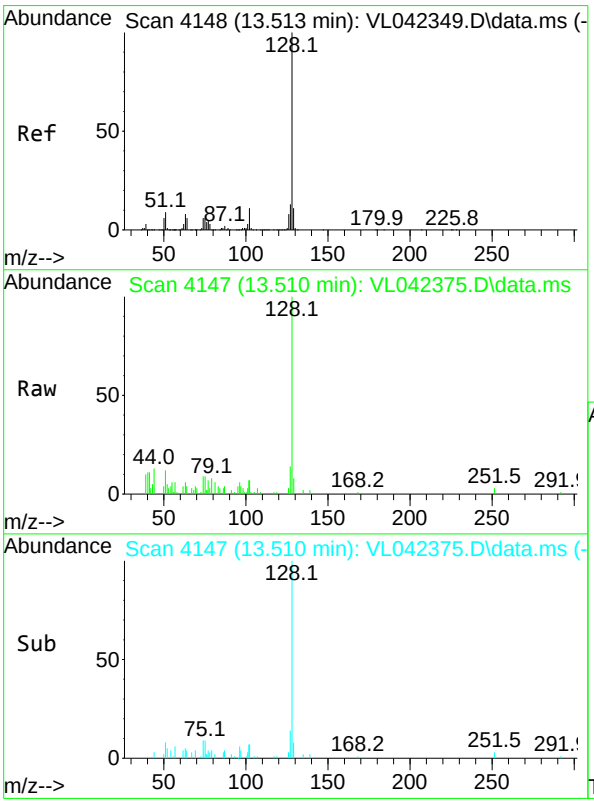
Ion	Ratio	Lower	Upper
105	100		
120	38.5	38.1	57.1
91	10.9	48.8	73.2#
77	12.5	19.0	28.4#



Instrument :
MSVOA_L
ClientSampleId :
IA-B1-3-3252025DL

Manual Integrations
APPROVED

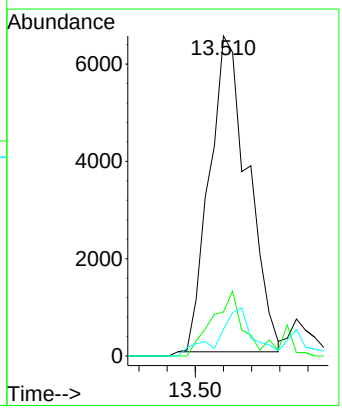
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#79
Naphthalene
Concen: 0.100 ppbv
RT: 13.510 min Scan# 4147
Delta R.T. -0.003 min
Lab File: VL042375.D
Acq: 18 Apr 2025 00:59

Tgt Ion:128 Resp: 6160

Ion	Ratio	Lower	Upper
128	100		
127	14.0	10.6	15.8
129	8.4	8.6	12.8#



284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	Woodard & Curran	Date Collected:	03/26/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	03/27/25
Client Sample ID:	IA-B1-1-3252025	SDG No.:	Q1668
Lab Sample ID:	Q1668-04	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042364.D	1		04/17/25 18:58	VL041725

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.48	2.37	J	1.04	2.47	ug/m3
74-87-3	Chloromethane	0.67	1.38		0.21	1.03	ug/m3
75-01-4	Vinyl Chloride	0.010	0.030	U	0.030	0.080	ug/m3
74-83-9	Bromomethane	0.14	0.54	U	0.54	1.94	ug/m3
75-00-3	Chloroethane	0.17	0.45	U	0.45	1.32	ug/m3
109-99-9	Tetrahydrofuran	0.13	0.38	U	0.38	1.47	ug/m3
75-69-4	Trichlorofluoromethane	0.24	1.35	J	0.90	2.81	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	0.16	1.23	U	1.23	3.83	ug/m3
76-14-2	Dichlorotetrafluoroethane	0.090	0.63	U	0.63	3.49	ug/m3
75-65-0	tert-Butyl alcohol	0.36	1.09	J	0.58	1.52	ug/m3
142-82-5	Heptane	1.90	7.79		0.45	2.05	ug/m3
75-35-4	1,1-Dichloroethene	0.14	0.56	U	0.56	1.98	ug/m3
67-64-1	Acetone	7.30	17.3		0.57	1.19	ug/m3
75-15-0	Carbon Disulfide	0.16	0.50	U	0.50	1.56	ug/m3
1634-04-4	Methyl tert-Butyl Ether	0.12	0.43	U	0.43	1.80	ug/m3
75-09-2	Methylene Chloride	5.20	18.1		0.66	1.74	ug/m3
156-60-5	trans-1,2-Dichloroethene	0.19	0.75	U	0.75	1.98	ug/m3
75-34-3	1,1-Dichloroethane	0.13	0.53	U	0.53	2.02	ug/m3
110-82-7	Cyclohexane	1.80	6.20		0.76	1.72	ug/m3
78-93-3	2-Butanone	0.83	2.45		0.35	1.47	ug/m3
56-23-5	Carbon Tetrachloride	0.070	0.44		0.060	0.19	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.090	0.36	U	0.36	1.98	ug/m3
67-66-3	Chloroform	0.080	0.39	U	0.39	2.44	ug/m3
71-55-6	1,1,1-Trichloroethane	0.010	0.050	U	0.050	0.16	ug/m3
540-84-1	2,2,4-Trimethylpentane	0.37	1.73	J	0.47	2.34	ug/m3
71-43-2	Benzene	0.77	2.46		0.29	1.60	ug/m3
107-06-2	1,2-Dichloroethane	0.090	0.36	U	0.36	2.02	ug/m3
79-01-6	Trichloroethene	0.020	0.11	U	0.11	0.16	ug/m3
78-87-5	1,2-Dichloropropane	0.11	0.51	U	0.51	2.31	ug/m3
75-27-4	Bromodichloromethane	0.080	0.54	U	0.54	3.35	ug/m3
108-10-1	4-Methyl-2-Pentanone	9.80	40.2		0.37	2.05	ug/m3
108-88-3	Toluene	2.70	10.2		0.41	1.88	ug/m3
10061-02-6	t-1,3-Dichloropropene	0.060	0.27	U	0.27	2.27	ug/m3
10061-01-5	cis-1,3-Dichloropropene	0.060	0.27	U	0.27	2.27	ug/m3
79-00-5	1,1,2-Trichloroethane	0.070	0.38	U	0.38	2.73	ug/m3

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	Woodard & Curran	Date Collected:	03/26/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	03/27/25
Client Sample ID:	IA-B1-1-3252025	SDG No.:	Q1668
Lab Sample ID:	Q1668-04	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042364.D	1		04/17/25 18:58	VL041725

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	0.070	0.60	U	0.60	4.26	ug/m3
106-93-4	1,2-Dibromoethane	0.070	0.54	U	0.54	0.77	ug/m3
127-18-4	Tetrachloroethene	0.050	0.34		0.14	0.20	ug/m3
108-90-7	Chlorobenzene	0.080	0.37	U	0.37	2.30	ug/m3
100-41-4	Ethyl Benzene	2.60	11.3		0.52	2.17	ug/m3
179601-23-1	m/p-Xylene	14.6	63.4		0.91	4.34	ug/m3
95-47-6	o-Xylene	6.20	26.9		0.52	2.17	ug/m3
100-42-5	Styrene	0.61	2.60		0.47	2.13	ug/m3
75-25-2	Bromoform	0.060	0.62	U	0.62	5.17	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	0.010	0.070	U	0.070	0.21	ug/m3
95-49-8	2-Chlorotoluene	0.11	0.57	U	0.57	2.59	ug/m3
108-67-8	1,3,5-Trimethylbenzene	4.00	19.7		0.54	2.46	ug/m3
95-63-6	1,2,4-Trimethylbenzene	11.4	56.0		0.39	2.46	ug/m3
541-73-1	1,3-Dichlorobenzene	0.080	0.48	U	0.48	3.01	ug/m3
106-46-7	1,4-Dichlorobenzene	0.050	0.30	U	0.30	3.01	ug/m3
95-50-1	1,2-Dichlorobenzene	0.080	0.48	U	0.48	3.01	ug/m3
120-82-1	1,2,4-Trichlorobenzene	0.090	0.67	U	0.67	3.71	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	0.090	0.96	U	0.96	5.33	ug/m3
106-99-0	1,3-Butadiene	0.13	0.29	U	0.29	1.11	ug/m3
91-20-3	Naphthalene	0.49	2.57		0.42	0.52	ug/m3
622-96-8	4-Ethyltoluene	3.20	15.7		0.59	2.46	ug/m3
110-54-3	Hexane	4.80	16.9		0.39	1.76	ug/m3
107-05-1	Allyl Chloride	0.15	0.47	U	0.47	1.57	ug/m3
123-91-1	1,4-Dioxane	0.21	0.76	U	0.76	1.80	ug/m3
80-62-6	Methyl Methacrylate	0.090	0.37	U	0.37	2.05	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	9.90			70 (65) - 130 (135)	99%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	118000		2.791			
540-36-3	1,4-Difluorobenzene	343000		3.962			
3114-55-4	Chlorobenzene-d5	303000		8.885			
TENTITIVE IDENTIFIED COMPOUNDS							
75-45-6	Chlorodifluoromethane	0.28		J		1.48	ppbv
115-07-1	Propene	0.82		J		1.49	ppbv
64-17-5	Ethanol	180		J		1.72	ppbv

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Report of Analysis

Client:	Woodard & Curran	Date Collected:	03/26/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	03/27/25
Client Sample ID:	IA-B1-1-3252025	SDG No.:	Q1668
Lab Sample ID:	Q1668-04	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042364.D	1		04/17/25 18:58	VL041725

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
67-63-0	Isopropyl Alcohol	3.10		J		1.89	ppbv
000589-34-4	Hexane, 3-methyl-	4.20		J		4.28	ppbv
003221-61-2	Octane, 2-methyl-	5.10		J		9.74	ppbv
98-82-8	Isopropylbenzene	0.36		J		10.5	ppbv
103-65-1	n-propylbenzene	1.50		J		11.0	ppbv
135-98-8	sec-Butylbenzene	0.20		J		11.8	ppbv
99-87-6	p-Isopropyltoluene	0.17		J		11.9	ppbv
000496-11-7	Indane	3.60		J		12.0	ppbv
001074-43-7	Benzene, 1-methyl-3-propyl-	3.90		J		12.2	ppbv
104-51-8	n-Butylbenzene	0.98		J		12.3	ppbv
000933-98-2	Benzene, 1-ethyl-2,3-dimethyl-	5.60		J		12.6	ppbv
001120-21-4	Undecane	4.70		J		12.8	ppbv
000824-90-8	1-Phenyl-1-butene	3.90		J		13.2	ppbv
000119-64-2	Naphthalene, 1,2,3,4-tetrahydro-	4.50		J		13.3	ppbv
000112-40-3	Dodecane	3.70		J		13.7	ppbv
001680-51-9	Naphthalene, 1,2,3,4-tetrahydro-6-	3.40		J		14.2	ppbv
91-57-6	Naphthalene,2-methyl-	0.34		J		14.5	ppbv

U = Not Detected
RL = Reporting Limit
MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Quantitation Report (LSC Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042364.D
Acq On : 17 Apr 2025 18:58
Operator : SY/MD
Sample : Q1668-04
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 18 02:41:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-1-3252025

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.791	49	117691	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.962	114	343133	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.885	117	303219	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.380	95	247615	9.938	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 99.400%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.499	85	10068	0.484	ppbv		96
3) Chlorodifluoromethane	1.476	51	5491m	0.277	ppbv		
4) Chloromethane	1.535	50	5532	0.672	ppbv		95
9) Propene	1.489	41	7365m	0.817	ppbv		
10) Heptane	4.988	43	48989	1.934	ppbv		95
11) Trichlorofluoromethane	1.881	101	4688	0.237	ppbv		90
13) Ethanol	1.722	45	257475	179.643	ppbv		74
15) Acetone	1.839	43	140628	7.299	ppbv		90
17) tert-Butyl alcohol	2.046	59	8687	0.364	ppbv	#	56
19) Isopropyl Alcohol	1.891	45	33526	3.132	ppbv	#	17
20) Methylene Chloride	2.066	84	39273	5.205	ppbv		93
26) Hexane	2.829	57	92595	4.817	ppbv	#	33
30) Cyclohexane	3.865	84	28679	1.845	ppbv		97
34) 2-Butanone	2.564	43	22380	0.825	ppbv		99
35) Carbon Tetrachloride	3.771	117	2263m	0.073	ppbv		
36) Benzene	3.664	78	28409	0.768	ppbv		94
44) 2,2,4-Trimethylpentane	4.648	57	23617m	0.369	ppbv		
50) 4-Methyl-2-Pentanone	5.758	43	441281	9.785	ppbv		99
52) Tetrachloroethene	8.235	164	715m	0.050	ppbv		
53) Toluene	6.940	91	121585	2.738	ppbv		100
58) Ethyl Benzene	9.358	91	156392	2.603	ppbv		98
59) m/p-Xylene	9.536	91	706391	14.596	ppbv		100
60) o-Xylene	9.969	91	301328	6.183	ppbv		100
61) Styrene	9.872	104	14156	0.609	ppbv		93
62) Isopropylbenzene	10.542	105	25514	0.357	ppbv		97
64) n-propylbenzene	10.992	120	27632	1.536	ppbv		98
67) sec-Butylbenzene	11.772	105	18674	0.204	ppbv		94
69) p-Isopropyltoluene	11.931	119	13409	0.169	ppbv		99
70) n-Butylbenzene	12.293	91	80990m	0.978	ppbv		
72) 4-Ethyltoluene	11.128	105	191371	3.212	ppbv	#	56
73) 1,3,5-Trimethylbenzene	11.209	105	207820	3.951	ppbv		98
74) 1,2,4-Trimethylbenzene	11.539	105	701287	11.415	ppbv	#	64
79) Naphthalene	13.517	128	36056	0.491	ppbv		97
80) Naphthalene,2-methyl-	14.462	142	14016	0.335	ppbv	#	58

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

Quantitation Report (LSC Reviewed)

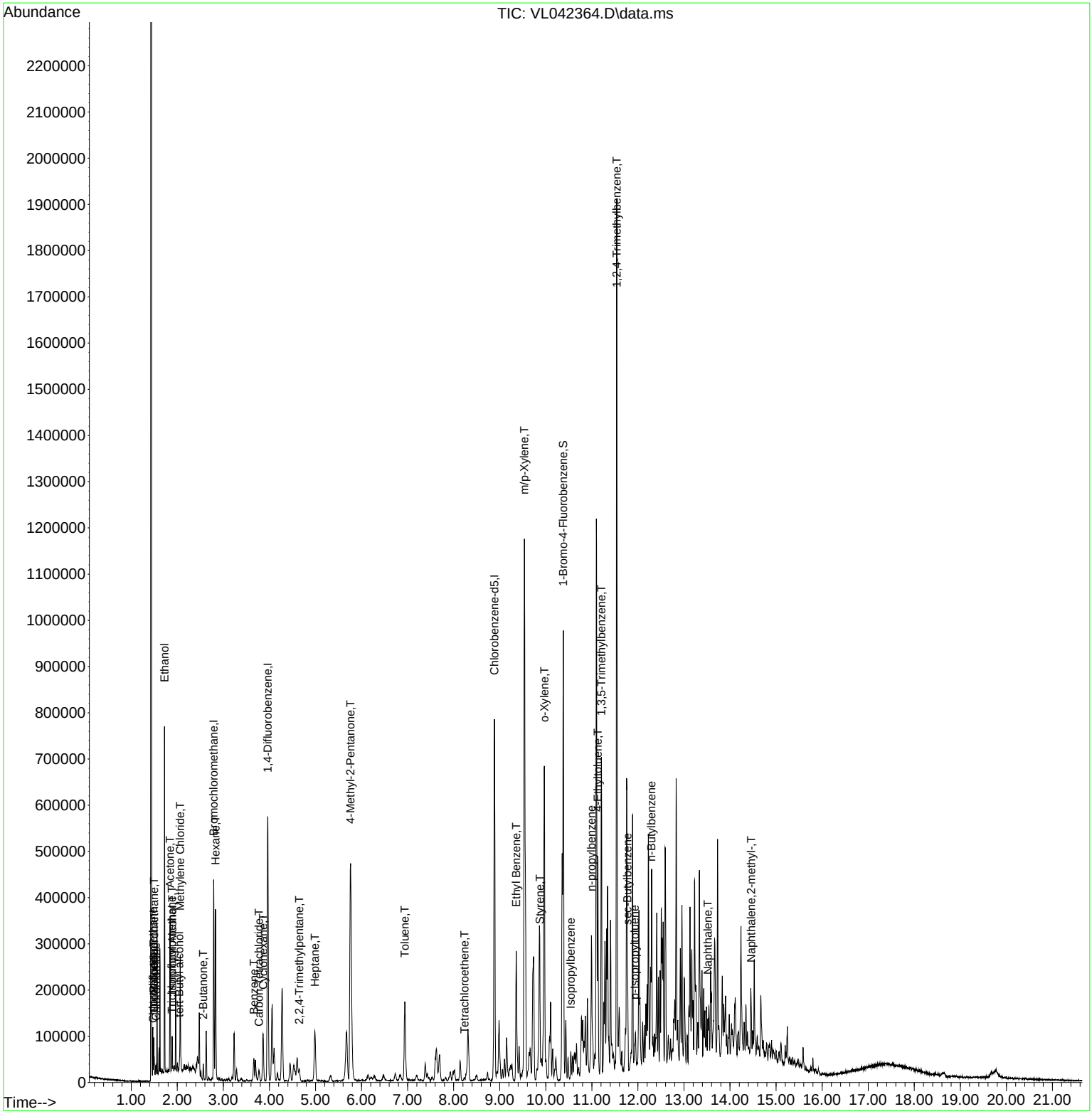
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042364.D
Acq On : 17 Apr 2025 18:58
Operator : SY/MD
Sample : Q1668-04
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

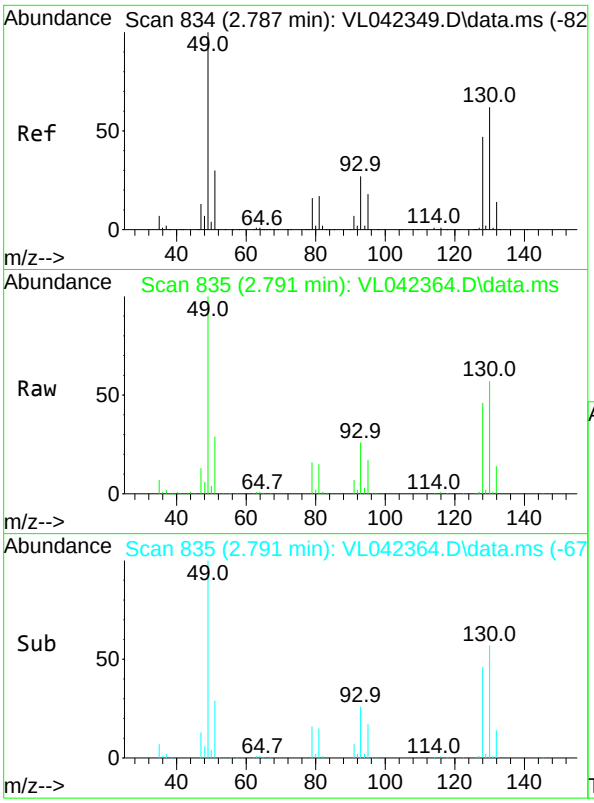
Quant Time: Apr 18 02:41:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-1-3252025

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

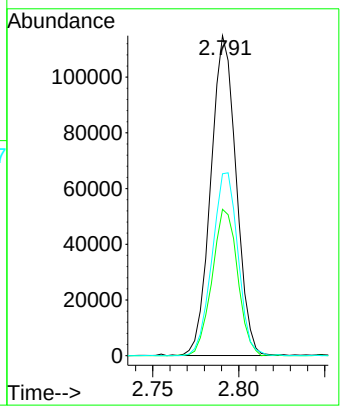




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.791 min Scan# 8
Delta R.T. 0.004 min
Lab File: VL042364.D
Acq: 17 Apr 2025 18:58

Tgt Ion: 49 Resp: 11769

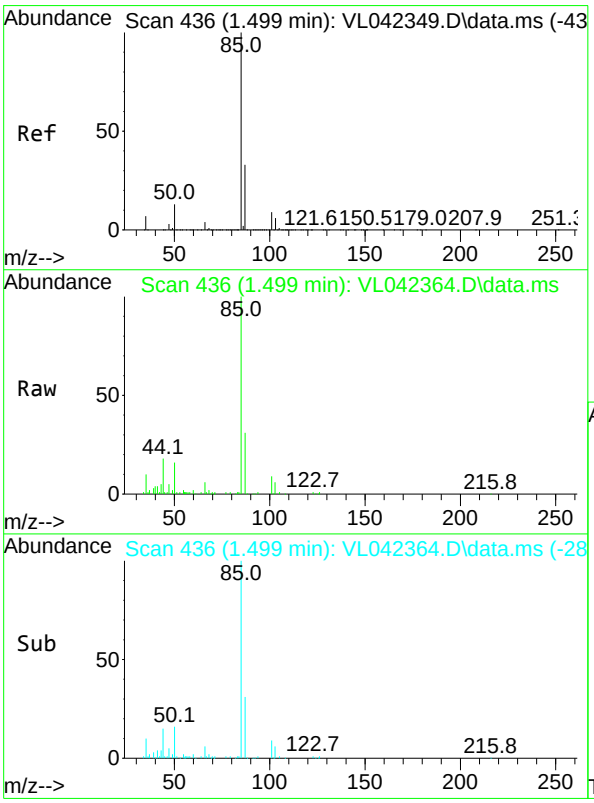
Ion	Ratio	Lower	Upper
49	100		
128	46.1	22.8	68.4
130	58.4	29.3	88.0



Instrument :
MSVOA_L
ClientSampleId :
IA-B1-1-3252025

Manual Integrations
APPROVED

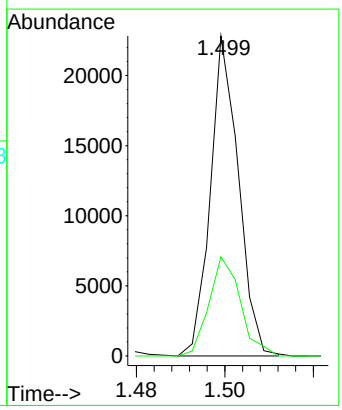
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

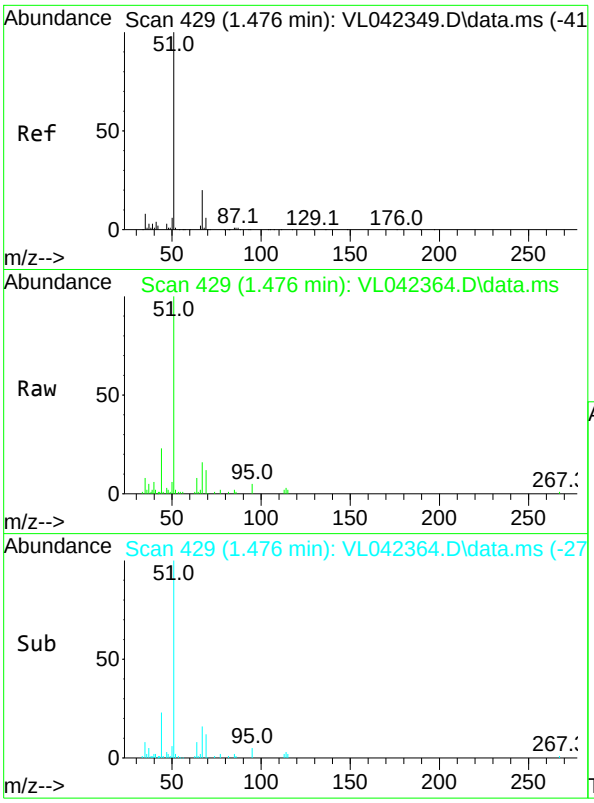


#2
Dichlorodifluoromethane
Concen: 0.484 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.000 min
Lab File: VL042364.D
Acq: 17 Apr 2025 18:58

Tgt Ion: 85 Resp: 10068

Ion	Ratio	Lower	Upper
85	100		
87	31.0	26.6	39.8

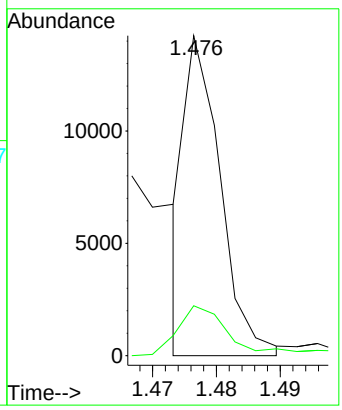




#3
Chlorodifluoromethane
Concen: 0.277 ppbv m
RT: 1.476 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042364.D
Acq: 17 Apr 2025 18:58

Tgt Ion: 51 Resp: 549

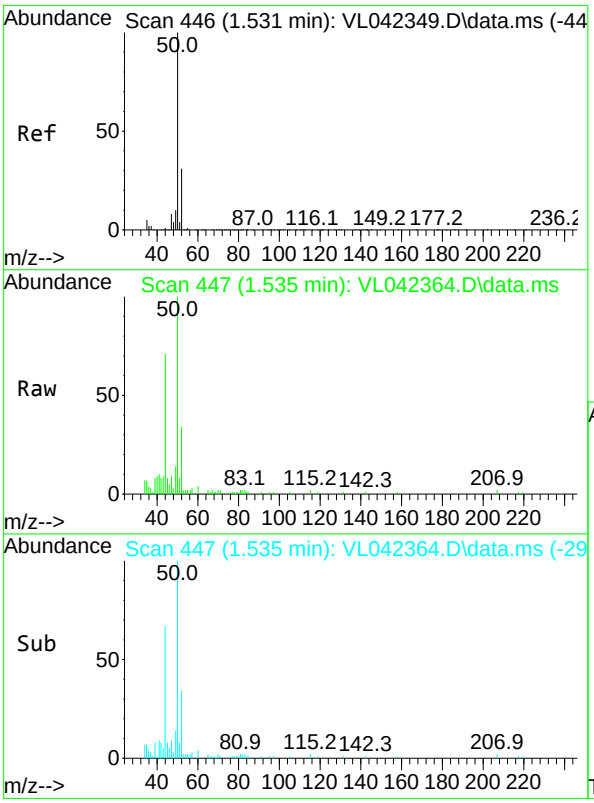
Ion	Ratio	Lower	Upper
51	100		
67	6.1	16.2	24.4



Instrument :
MSVOA_L
ClientSampleId :
IA-B1-1-3252025

Manual Integrations
APPROVED

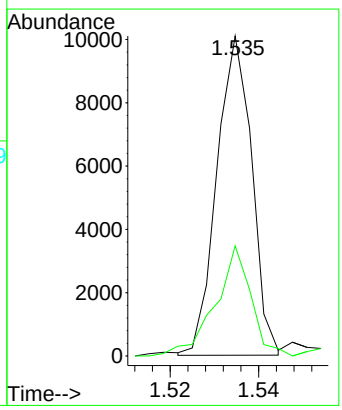
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

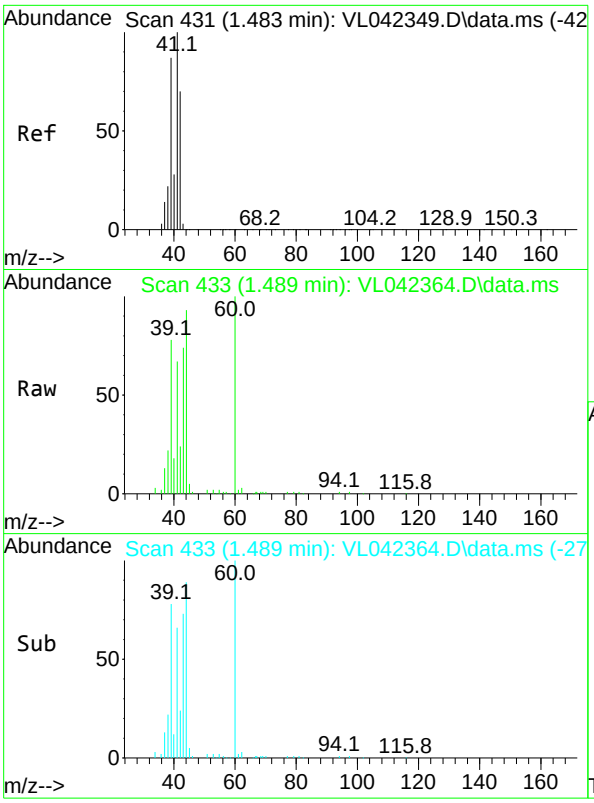


#4
Chloromethane
Concen: 0.672 ppbv
RT: 1.535 min Scan# 447
Delta R.T. 0.004 min
Lab File: VL042364.D
Acq: 17 Apr 2025 18:58

Tgt Ion: 50 Resp: 5532

Ion	Ratio	Lower	Upper
50	100		
52	33.4	24.7	37.1

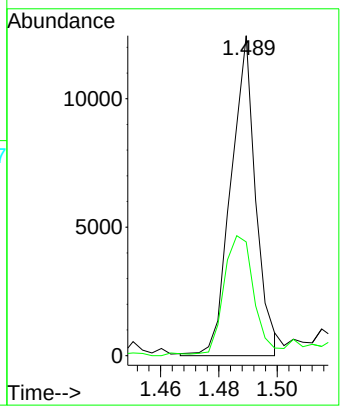




#9
Propene
Concen: 0.817 ppbv m
RT: 1.489 min Scan# 4
Delta R.T. 0.007 min
Lab File: VL042364.D
Acq: 17 Apr 2025 18:58

Tgt Ion: 41 Resp: 736

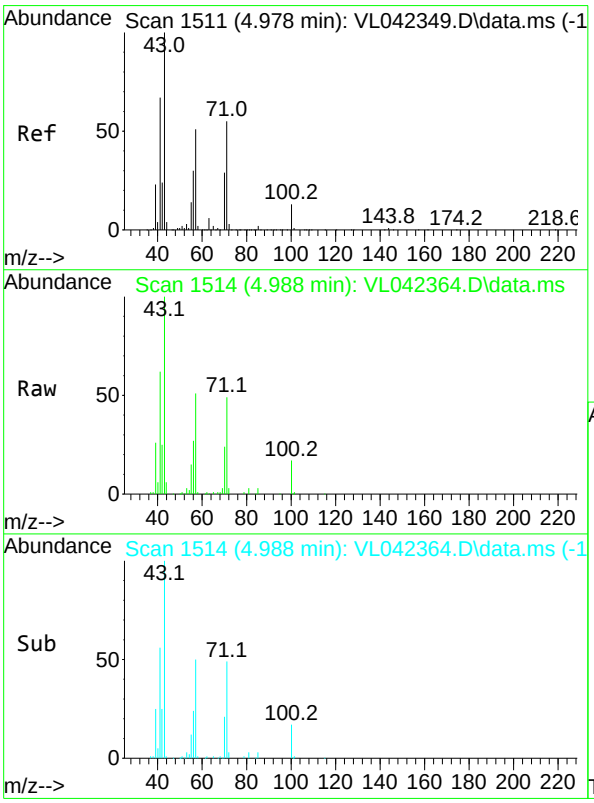
Ion	Ratio	Lower	Upper
41	100		
42	303.3	56.2	84.4



Instrument :
MSVOA_L
ClientSampleId :
IA-B1-1-3252025

Manual Integrations
APPROVED

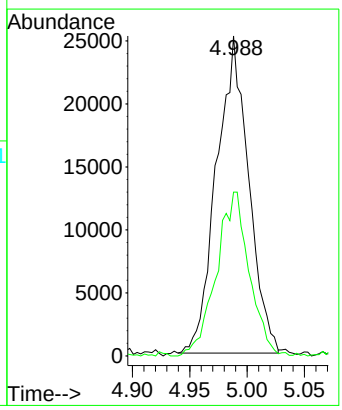
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

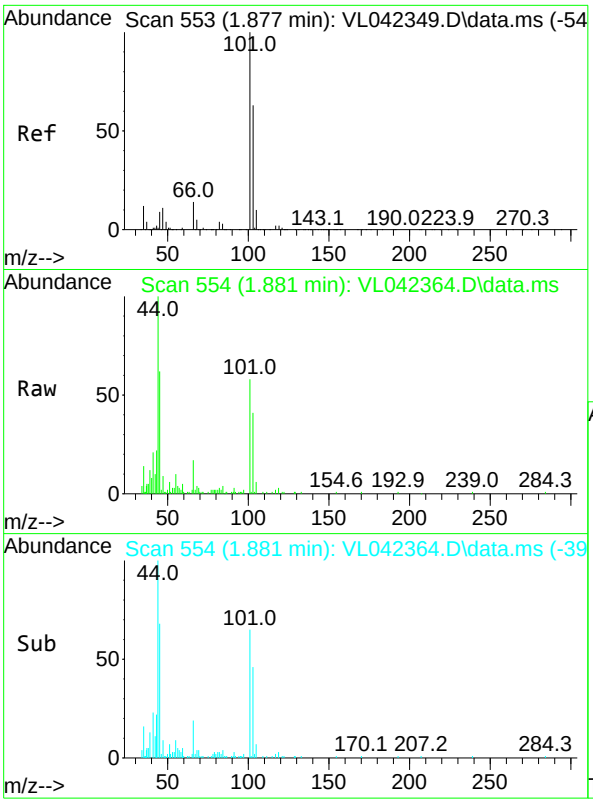


#10
Heptane
Concen: 1.934 ppbv
RT: 4.988 min Scan# 1514
Delta R.T. 0.010 min
Lab File: VL042364.D
Acq: 17 Apr 2025 18:58

Tgt Ion: 43 Resp: 48989

Ion	Ratio	Lower	Upper
43	100		
57	53.3	39.9	59.9

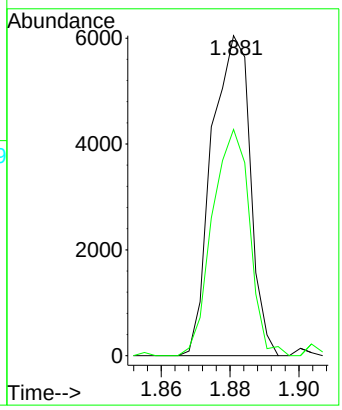




#11
Trichlorofluoromethane
Concen: 0.237 ppbv
RT: 1.881 min Scan# 5
Delta R.T. 0.004 min
Lab File: VL042364.D
Acq: 17 Apr 2025 18:58

Tgt Ion:101 Resp: 468

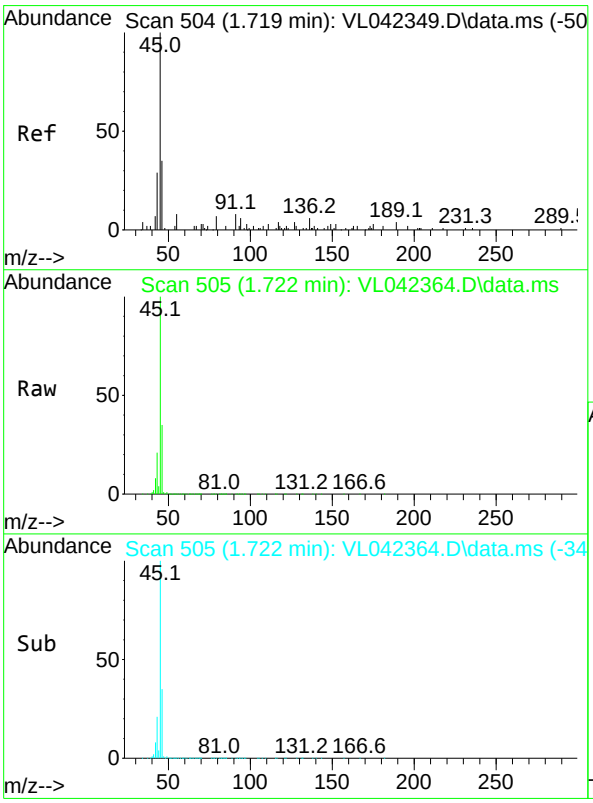
Ion	Ratio	Lower	Upper
101	100		
103	70.7	50.1	75.1



Instrument :
MSVOA_L
ClientSampleId :
IA-B1-1-3252025

Manual Integrations
APPROVED

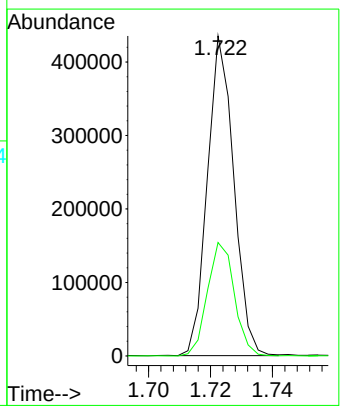
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

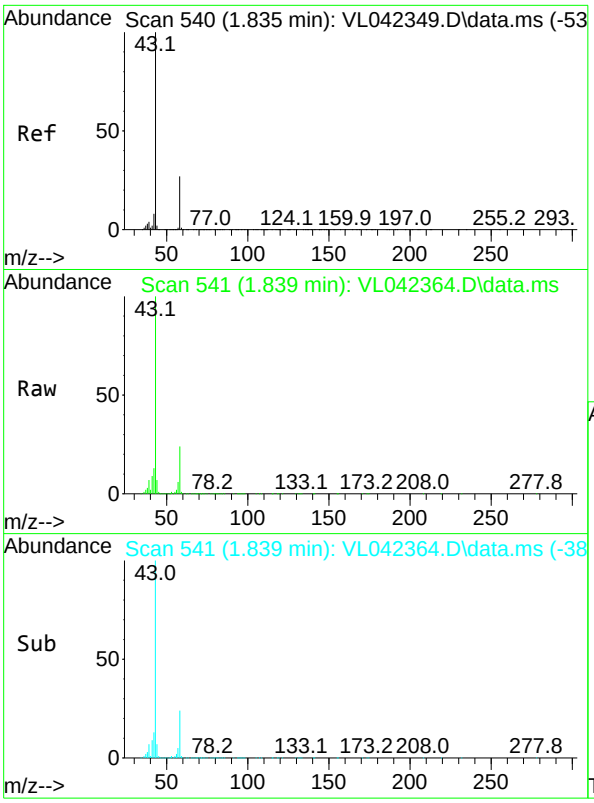


#13
Ethanol
Concen: 179.643 ppbv
RT: 1.722 min Scan# 505
Delta R.T. 0.004 min
Lab File: VL042364.D
Acq: 17 Apr 2025 18:58

Tgt Ion: 45 Resp: 257475

Ion	Ratio	Lower	Upper
45	100		
46	36.4	21.9	87.7

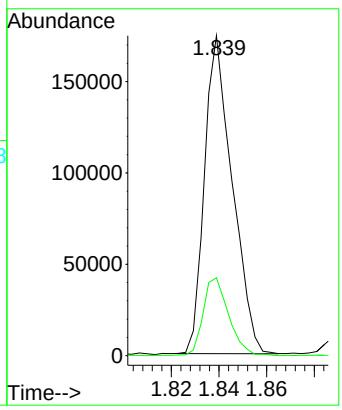




#15
Acetone
Concen: 7.299 ppbv
RT: 1.839 min Scan# 54
Delta R.T. 0.004 min
Lab File: VL042364.D
Acq: 17 Apr 2025 18:58

Tgt Ion: 43 Resp: 14062

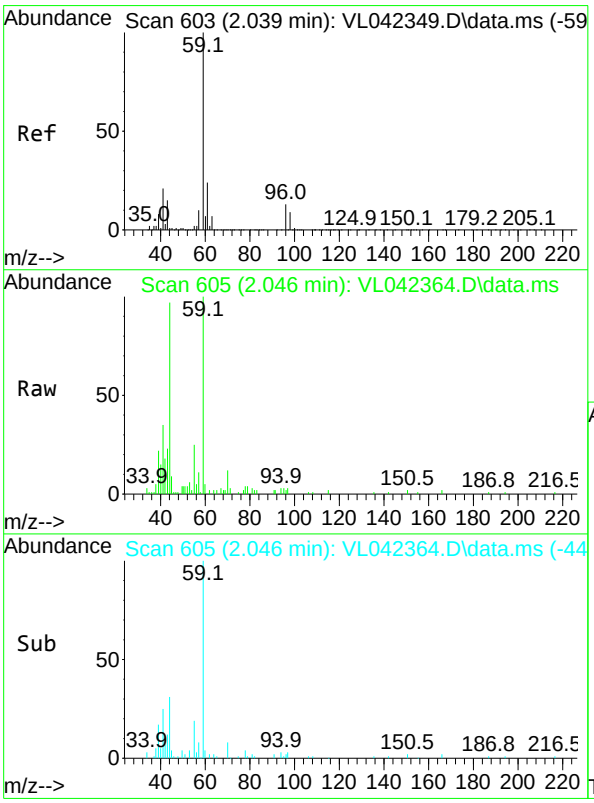
Ion	Ratio	Lower	Upper
43	100		
58	22.9	22.4	33.6



Instrument :
MSVOA_L
ClientSampleId :
IA-B1-1-3252025

Manual Integrations
APPROVED

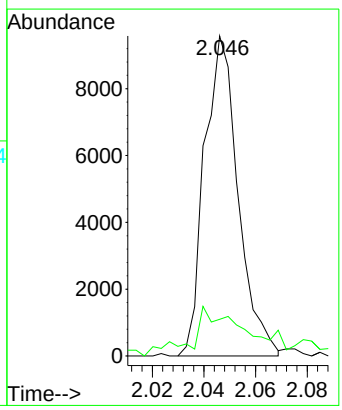
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

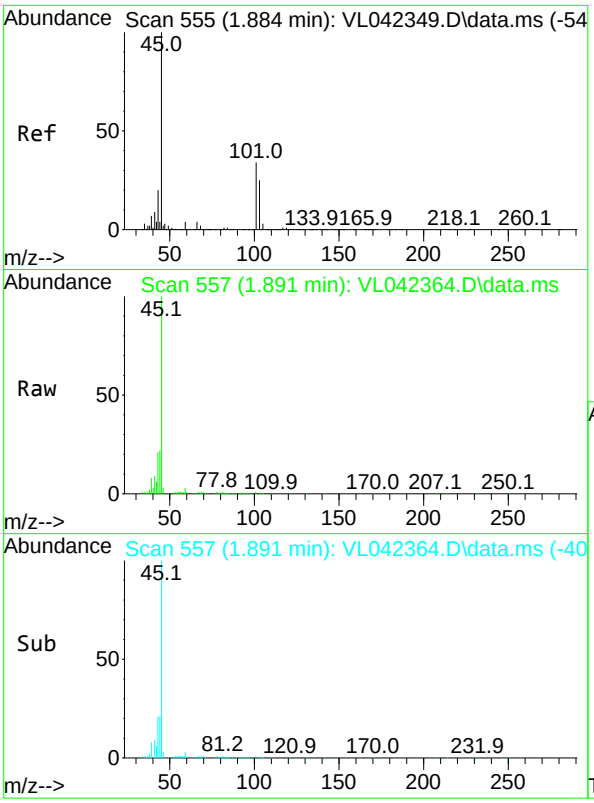


#17
tert-Butyl alcohol
Concen: 0.364 ppbv
RT: 2.046 min Scan# 605
Delta R.T. 0.007 min
Lab File: VL042364.D
Acq: 17 Apr 2025 18:58

Tgt Ion: 59 Resp: 8687

Ion	Ratio	Lower	Upper
59	100		
57	27.5	8.7	13.1#





#19
Isopropyl Alcohol
Concen: 3.132 ppbv
RT: 1.891 min Scan# 5
Delta R.T. 0.007 min
Lab File: VL042364.D
Acq: 17 Apr 2025 18:58

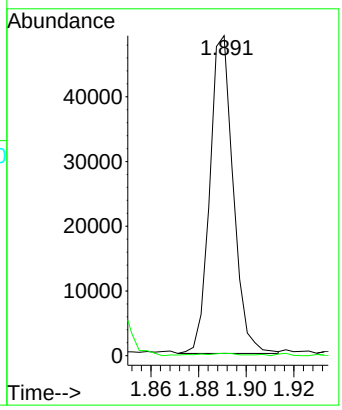
Tgt Ion: 45 Resp: 3352

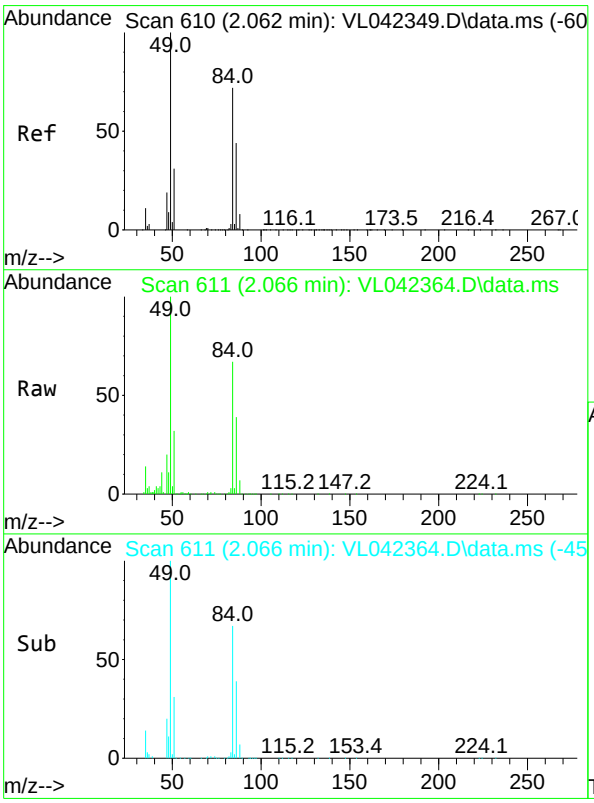
Ion	Ratio	Lower	Upper
45	100		
58	96.1	34.5	51.7

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-1-3252025

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

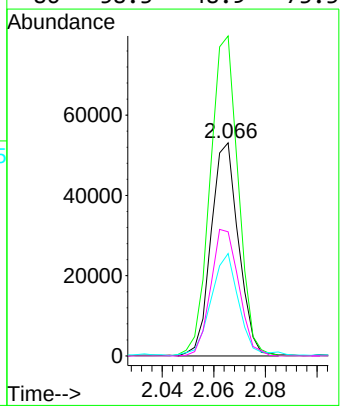


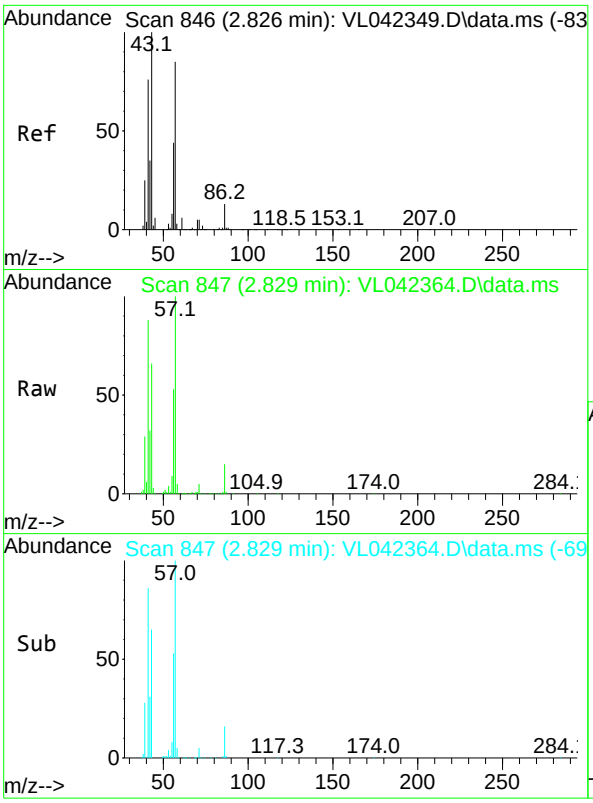


#20
Methylene Chloride
Concen: 5.205 ppbv
RT: 2.066 min Scan# 611
Delta R.T. 0.004 min
Lab File: VL042364.D
Acq: 17 Apr 2025 18:58

Tgt Ion: 84 Resp: 39273

Ion	Ratio	Lower	Upper
84	100		
49	149.8	111.6	167.4
51	47.4	35.1	52.7
86	58.3	48.9	73.3

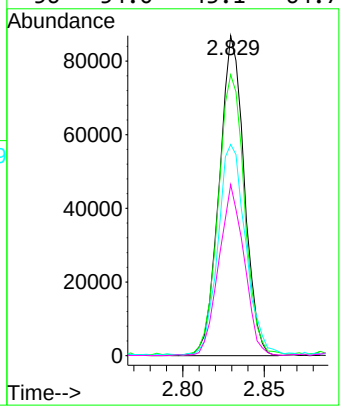




#26
Hexane
Concen: 4.817 ppbv
RT: 2.829 min Scan# 84
Delta R.T. 0.004 min
Lab File: VL042364.D
Acq: 17 Apr 2025 18:58

Tgt Ion: 57 Resp: 9259

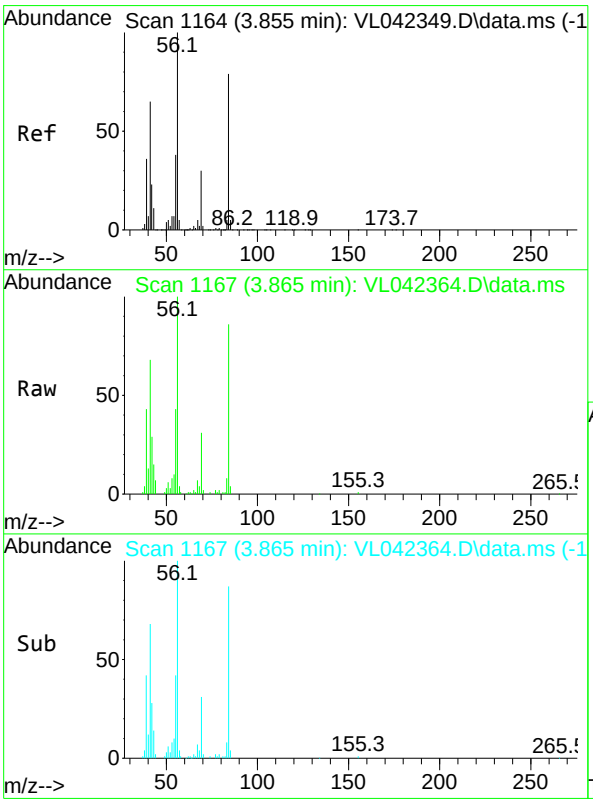
Ion	Ratio	Lower	Upper
57	100		
41	92.9	77.9	116.9
43	73.0	208.4	312.6
56	54.0	43.1	64.7



Instrument :
MSVOA_L
ClientSampleId :
IA-B1-1-3252025

Manual Integrations
APPROVED

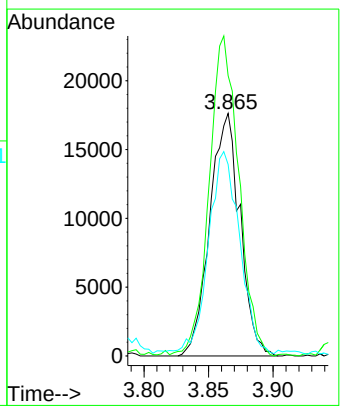
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

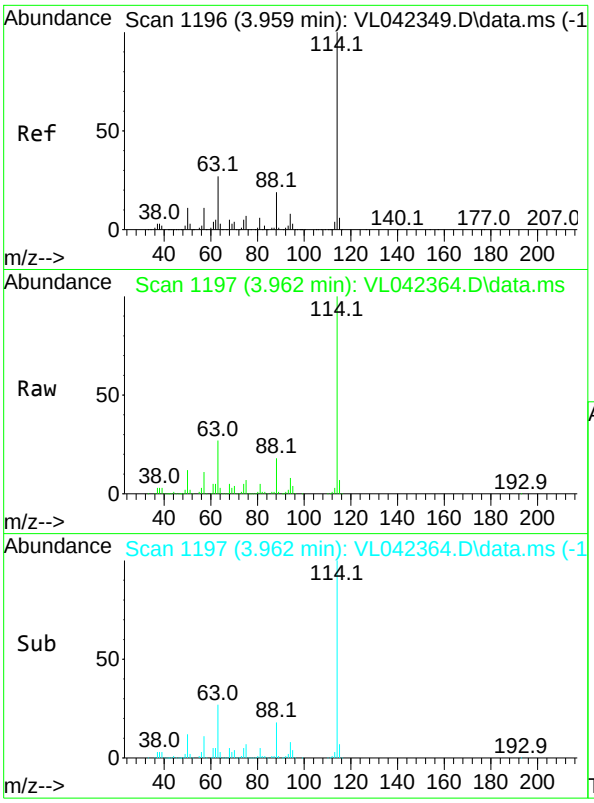


#30
Cyclohexane
Concen: 1.845 ppbv
RT: 3.865 min Scan# 1167
Delta R.T. 0.010 min
Lab File: VL042364.D
Acq: 17 Apr 2025 18:58

Tgt Ion: 84 Resp: 28679

Ion	Ratio	Lower	Upper
84	100		
56	129.9	101.0	151.4
41	86.0	67.4	101.0

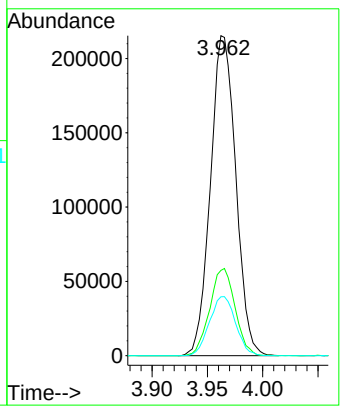




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.962 min Scan# 1
Delta R.T. 0.004 min
Lab File: VL042364.D
Acq: 17 Apr 2025 18:58

Tgt Ion:114 Resp: 34313

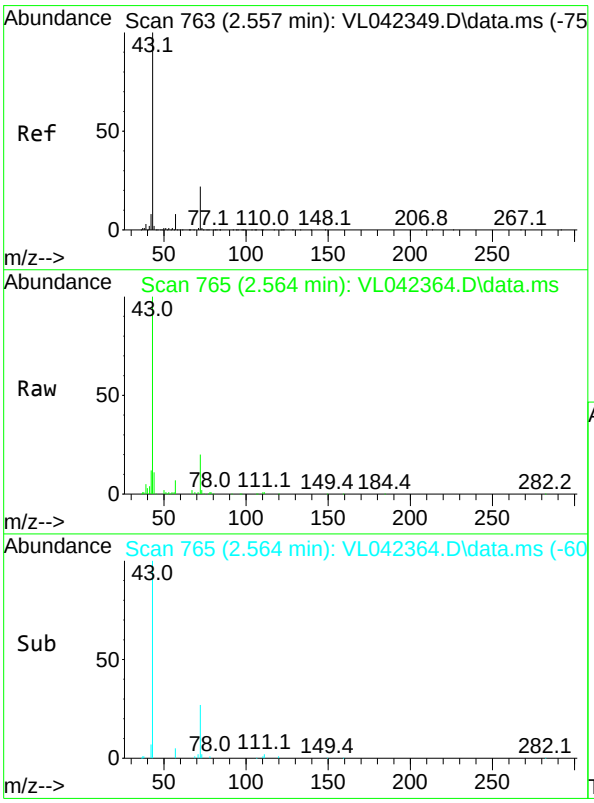
Ion	Ratio	Lower	Upper
114	100		
63	27.3	21.8	32.6
88	19.0	15.5	23.3



Instrument :
MSVOA_L
ClientSampleId :
IA-B1-1-3252025

Manual Integrations
APPROVED

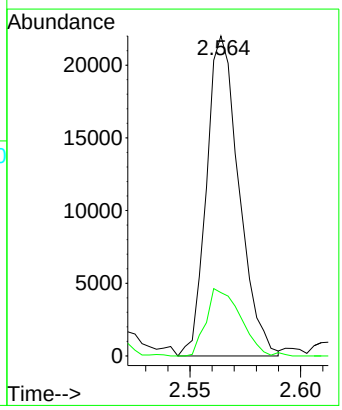
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

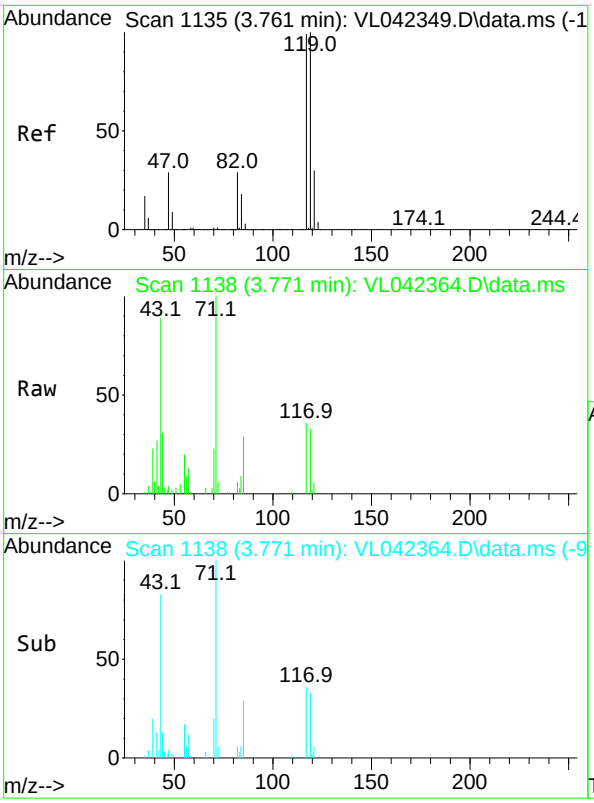


#34
2-Butanone
Concen: 0.825 ppbv
RT: 2.564 min Scan# 765
Delta R.T. 0.007 min
Lab File: VL042364.D
Acq: 17 Apr 2025 18:58

Tgt Ion: 43 Resp: 22380

Ion	Ratio	Lower	Upper
43	100		
72	22.4	18.2	27.2

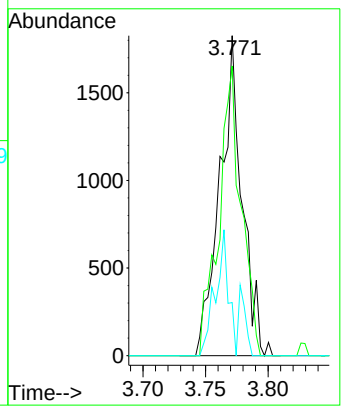




#35
Carbon Tetrachloride
Concen: 0.073 ppbv m
RT: 3.771 min Scan# 1
Delta R.T. 0.010 min
Lab File: VL042364.D
Acq: 17 Apr 2025 18:58

Tgt Ion:117 Resp: 226

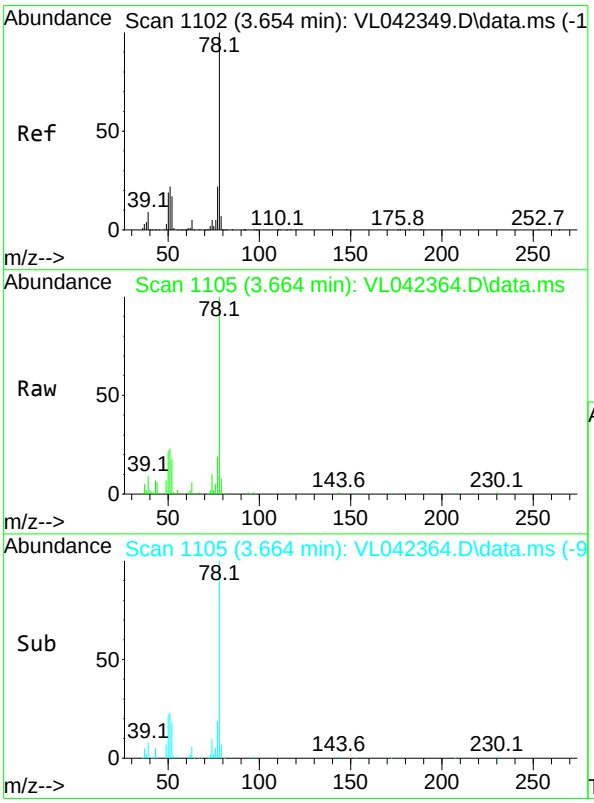
Ion	Ratio	Lower	Upper
117	100		
119	90.5	80.5	120.7
121	16.6	24.2	36.2#



Instrument :
MSVOA_L
ClientSampleId :
IA-B1-1-3252025

Manual Integrations
APPROVED

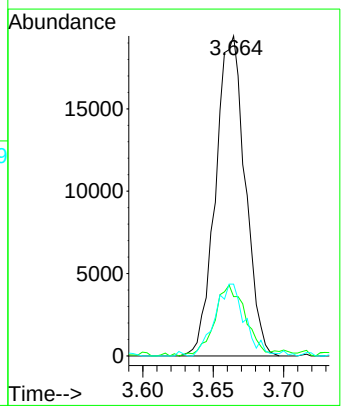
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

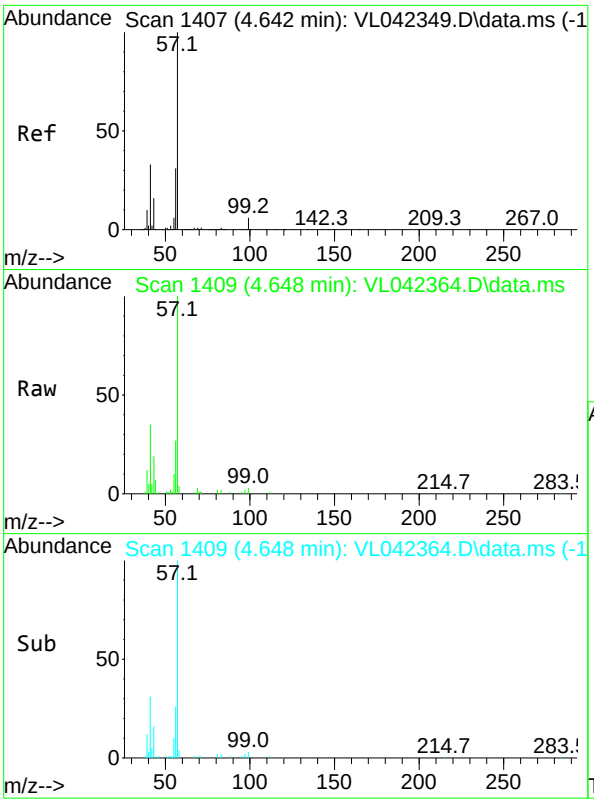


#36
Benzene
Concen: 0.768 ppbv
RT: 3.664 min Scan# 1105
Delta R.T. 0.010 min
Lab File: VL042364.D
Acq: 17 Apr 2025 18:58

Tgt Ion: 78 Resp: 28409

Ion	Ratio	Lower	Upper
78	100		
77	18.5	17.4	26.0
50	21.7	15.5	23.3

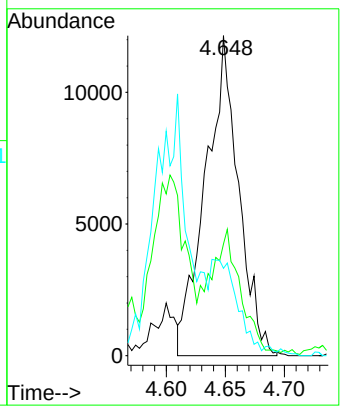




#44
2,2,4-Trimethylpentane
Concen: 0.369 ppbv m
RT: 4.648 min Scan# 14
Delta R.T. 0.007 min
Lab File: VL042364.D
Acq: 17 Apr 2025 18:58

Tgt Ion: 57 Resp: 2361

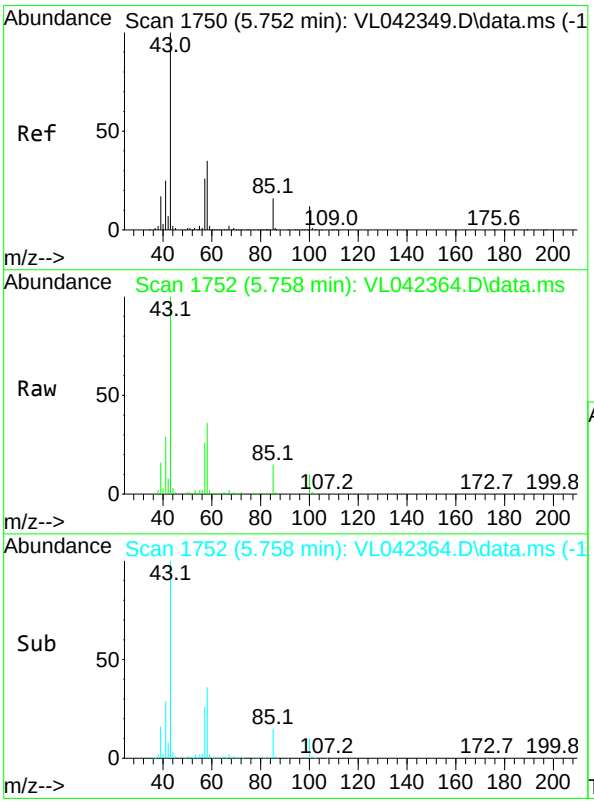
Ion	Ratio	Lower	Upper
57	100		
41	32.4	27.2	40.8
56	0.0	25.7	38.5



Instrument :
MSVOA_L
ClientSampleId :
IA-B1-1-3252025

Manual Integrations
APPROVED

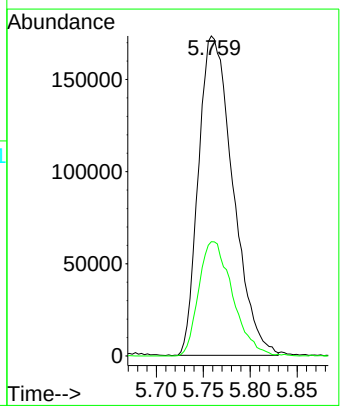
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

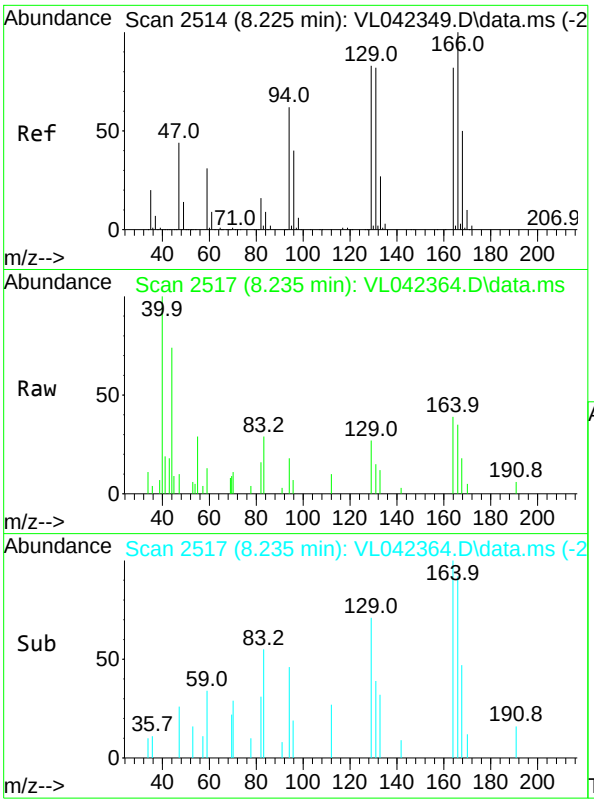


#50
4-Methyl-2-Pentanone
Concen: 9.785 ppbv
RT: 5.758 min Scan# 1752
Delta R.T. 0.007 min
Lab File: VL042364.D
Acq: 17 Apr 2025 18:58

Tgt Ion: 43 Resp: 441281

Ion	Ratio	Lower	Upper
43	100		
58	35.4	28.6	43.0

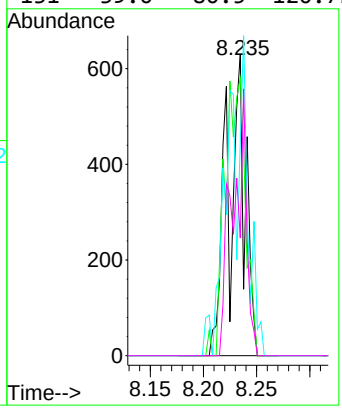




#52
Tetrachloroethene
Concen: 0.050 ppbv m
RT: 8.235 min Scan# 2
Delta R.T. 0.010 min
Lab File: VL042364.D
Acq: 17 Apr 2025 18:58

Tgt Ion:164 Resp: 71

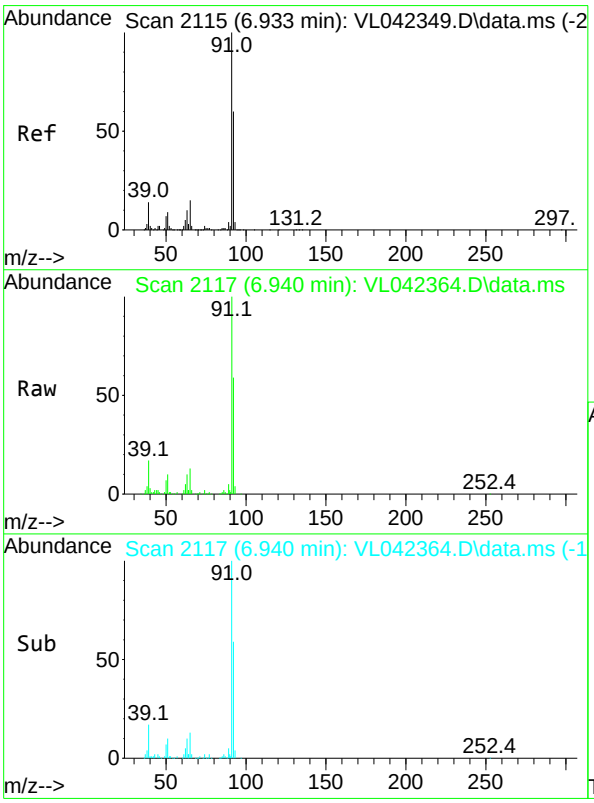
Ion	Ratio	Lower	Upper
164	100		
166	92.1	98.2	147.2#
129	70.8	81.8	122.8#
131	39.0	80.5	120.7#



Instrument :
MSVOA_L
ClientSampleId :
IA-B1-1-3252025

Manual Integrations
APPROVED

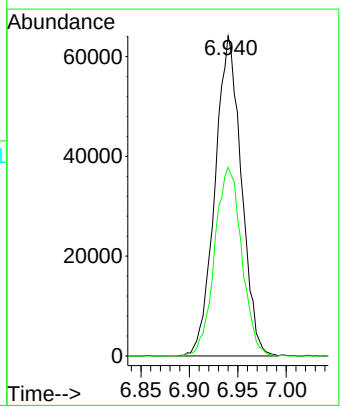
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

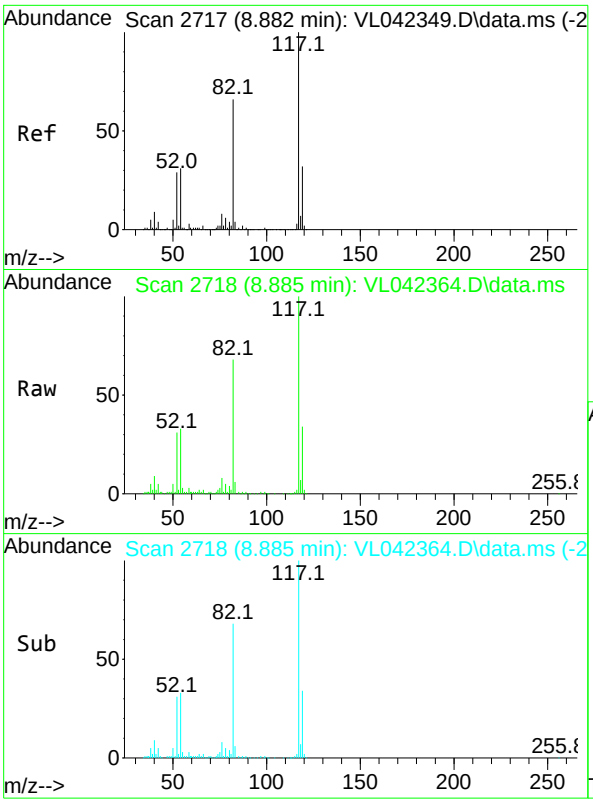


#53
Toluene
Concen: 2.738 ppbv
RT: 6.940 min Scan# 2117
Delta R.T. 0.007 min
Lab File: VL042364.D
Acq: 17 Apr 2025 18:58

Tgt Ion: 91 Resp: 121585

Ion	Ratio	Lower	Upper
91	100		
92	60.5	48.2	72.4

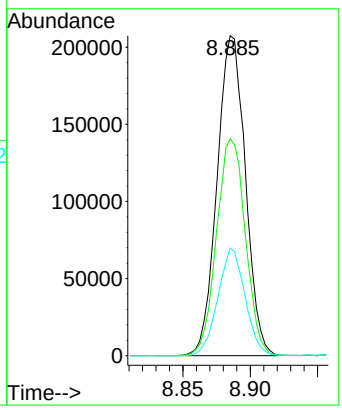




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.885 min Scan# 2
Delta R.T. 0.004 min
Lab File: VL042364.D
Acq: 17 Apr 2025 18:58

Tgt Ion:117 Resp: 30321

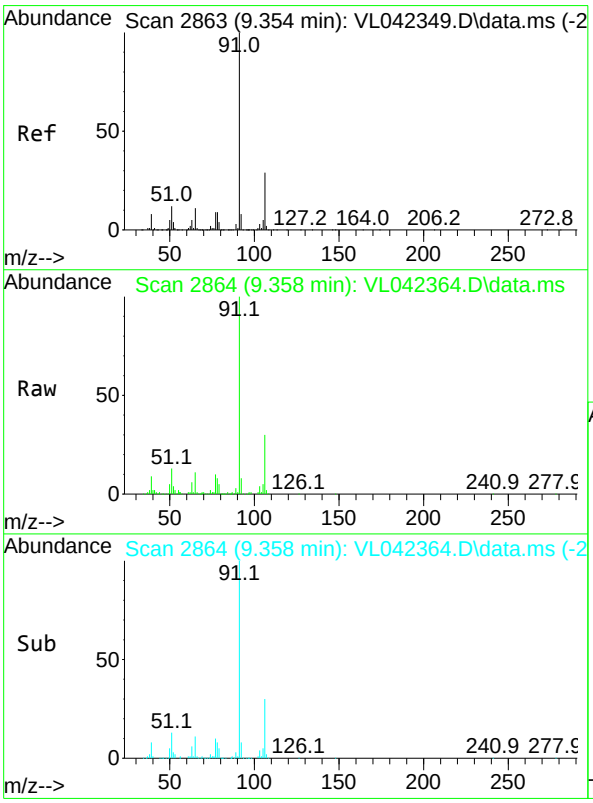
Ion	Ratio	Lower	Upper
117	100		
82	69.1	57.8	86.6
119	32.4	25.2	37.8



Instrument :
MSVOA_L
ClientSampleId :
IA-B1-1-3252025

Manual Integrations
APPROVED

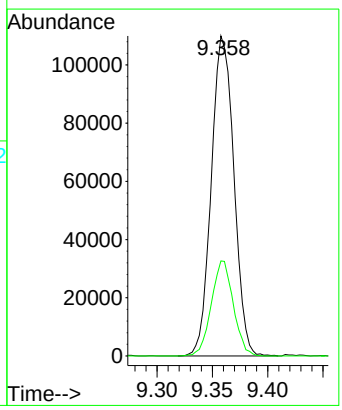
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

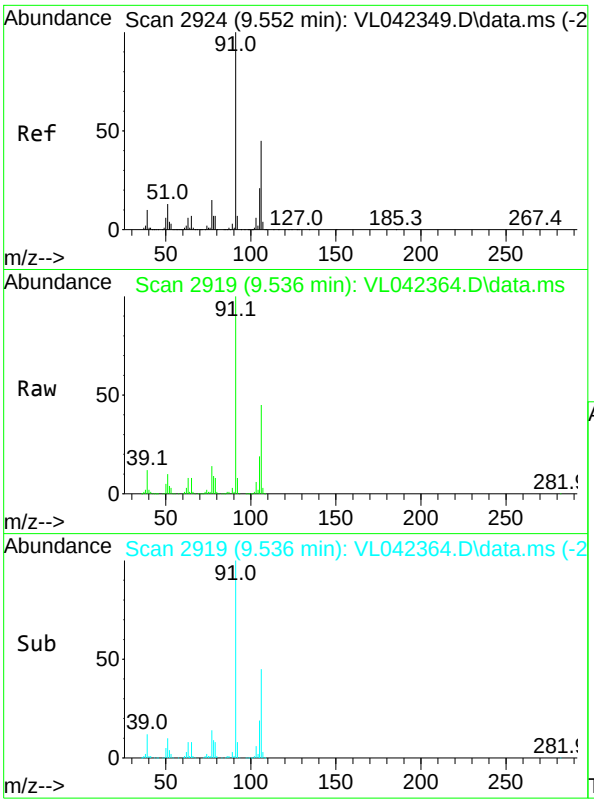


#58
Ethyl Benzene
Concen: 2.603 ppbv
RT: 9.358 min Scan# 2864
Delta R.T. 0.004 min
Lab File: VL042364.D
Acq: 17 Apr 2025 18:58

Tgt Ion: 91 Resp: 156392

Ion	Ratio	Lower	Upper
91	100		
106	29.7	23.0	34.4

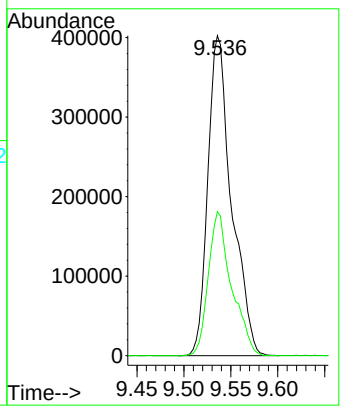




#59
m/p-Xylene
Concen: 14.596 ppbv
RT: 9.536 min Scan# 2
Delta R.T. -0.016 min
Lab File: VL042364.D
Acq: 17 Apr 2025 18:58

Tgt Ion: 91 Resp: 70639

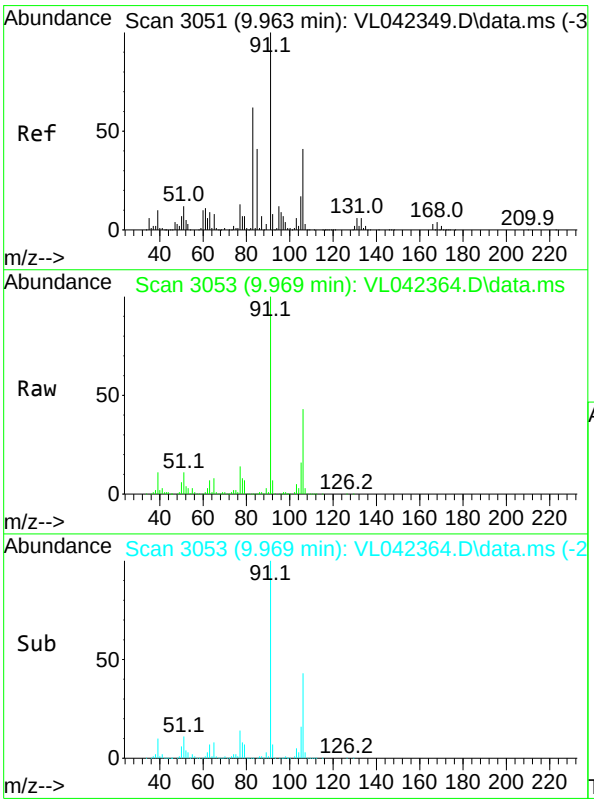
Ion	Ratio	Lower	Upper
91	100		
106	44.2	35.4	53.2



Instrument :
MSVOA_L
ClientSampleId :
IA-B1-1-3252025

Manual Integrations
APPROVED

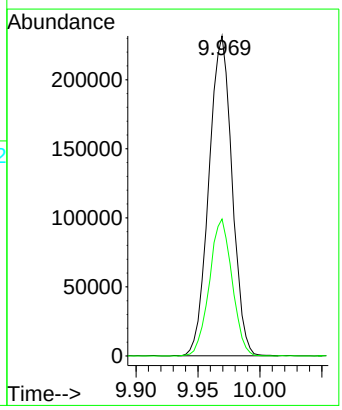
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

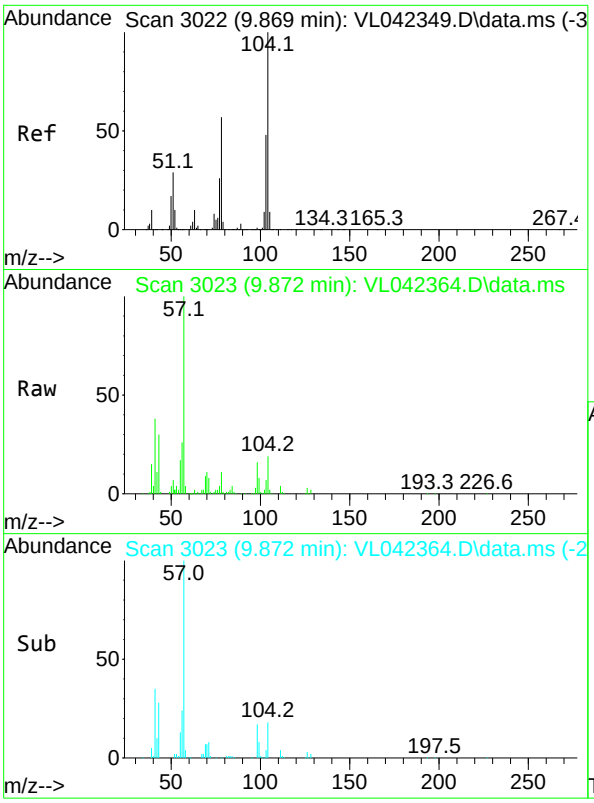


#60
o-Xylene
Concen: 6.183 ppbv
RT: 9.969 min Scan# 3053
Delta R.T. 0.007 min
Lab File: VL042364.D
Acq: 17 Apr 2025 18:58

Tgt Ion: 91 Resp: 301328

Ion	Ratio	Lower	Upper
91	100		
106	42.0	21.1	63.4

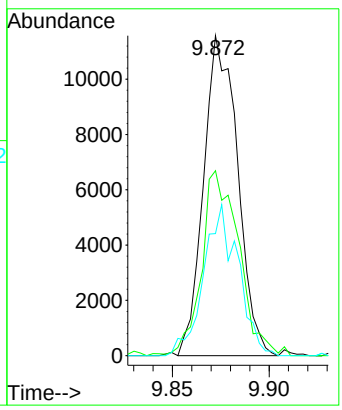




#61
Styrene
Concen: 0.609 ppbv
RT: 9.872 min Scan# 3
Delta R.T. 0.004 min
Lab File: VL042364.D
Acq: 17 Apr 2025 18:58

Tgt Ion:104 Resp: 1415

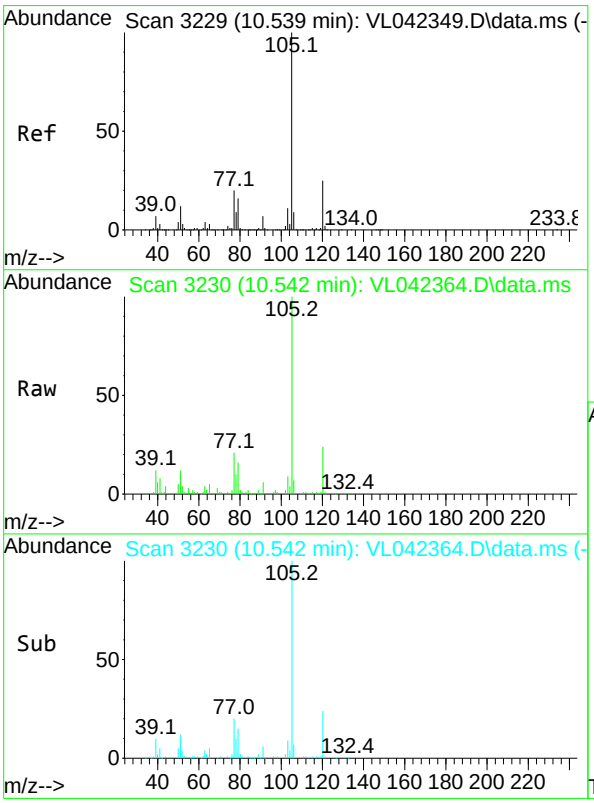
Ion	Ratio	Lower	Upper
104	100		
78	63.7	44.6	66.8
103	48.0	37.4	56.0



Instrument :
MSVOA_L
ClientSampleId :
IA-B1-1-3252025

Manual Integrations
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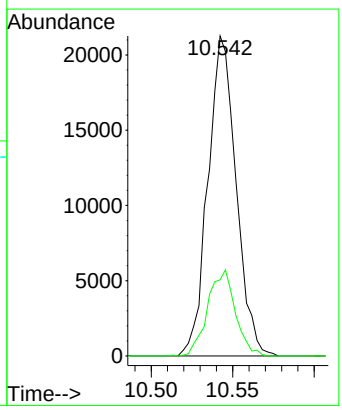
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

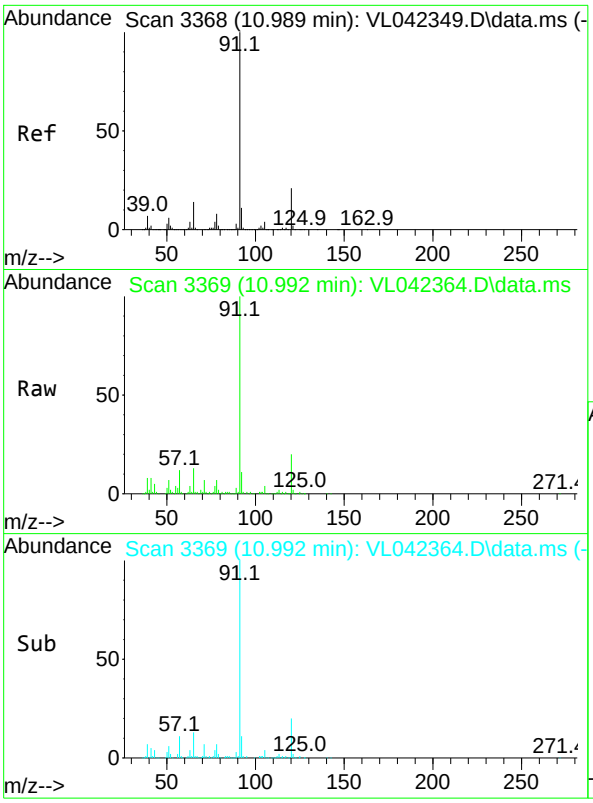


#62
Isopropylbenzene
Concen: 0.357 ppbv
RT: 10.542 min Scan# 3230
Delta R.T. 0.004 min
Lab File: VL042364.D
Acq: 17 Apr 2025 18:58

Tgt Ion:105 Resp: 25514

Ion	Ratio	Lower	Upper
105	100		
120	26.4	19.8	29.8

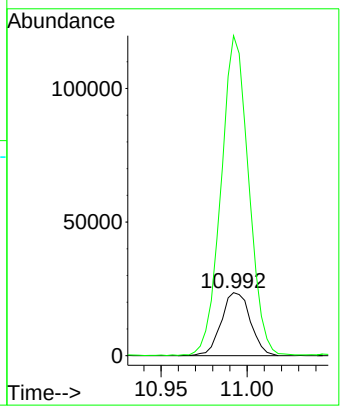




#64
n-propylbenzene
Concen: 1.536 ppbv
RT: 10.992 min Scan# 3
Delta R.T. 0.004 min
Lab File: VL042364.D
Acq: 17 Apr 2025 18:58

Tgt Ion:120 Resp: 2763

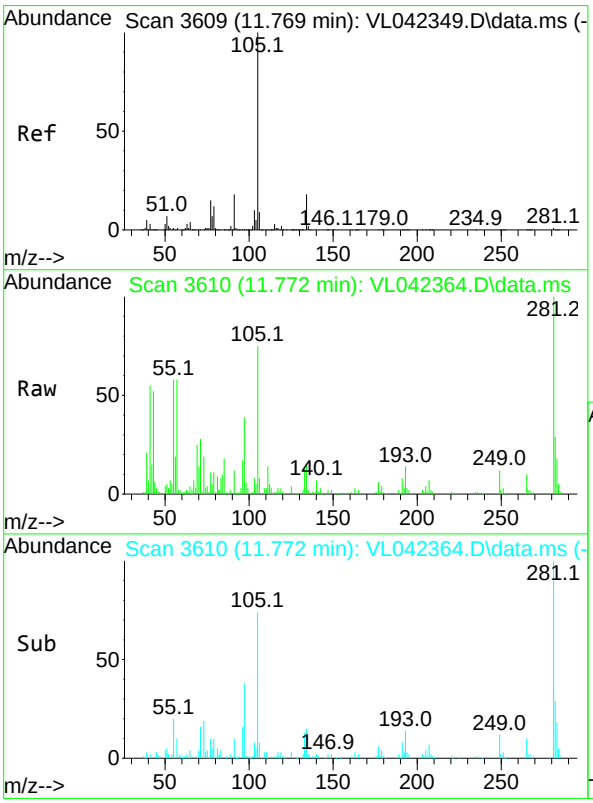
Ion	Ratio	Lower	Upper
120	100		
91	483.8	392.4	588.6



Instrument :
MSVOA_L
ClientSampleId :
IA-B1-1-3252025

Manual Integrations
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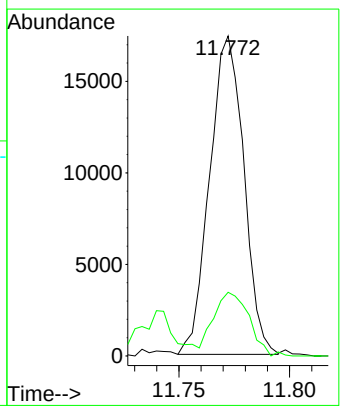
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

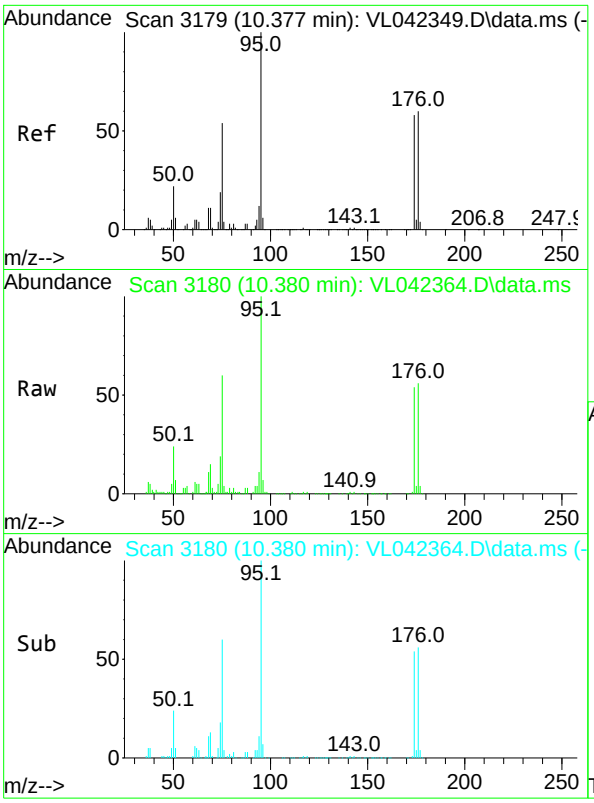


#67
sec-Butylbenzene
Concen: 0.204 ppbv
RT: 11.772 min Scan# 3610
Delta R.T. 0.004 min
Lab File: VL042364.D
Acq: 17 Apr 2025 18:58

Tgt Ion:105 Resp: 18674

Ion	Ratio	Lower	Upper
105	100		
134	20.8	14.6	21.8

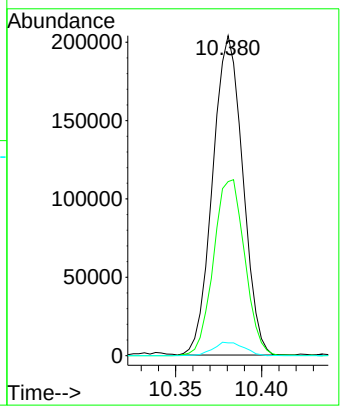




#68
1-Bromo-4-Fluorobenzene
Concen: 9.938 ppbv
RT: 10.380 min Scan# 3
Delta R.T. 0.004 min
Lab File: VL042364.D
Acq: 17 Apr 2025 18:58

Tgt Ion: 95 Resp: 24761

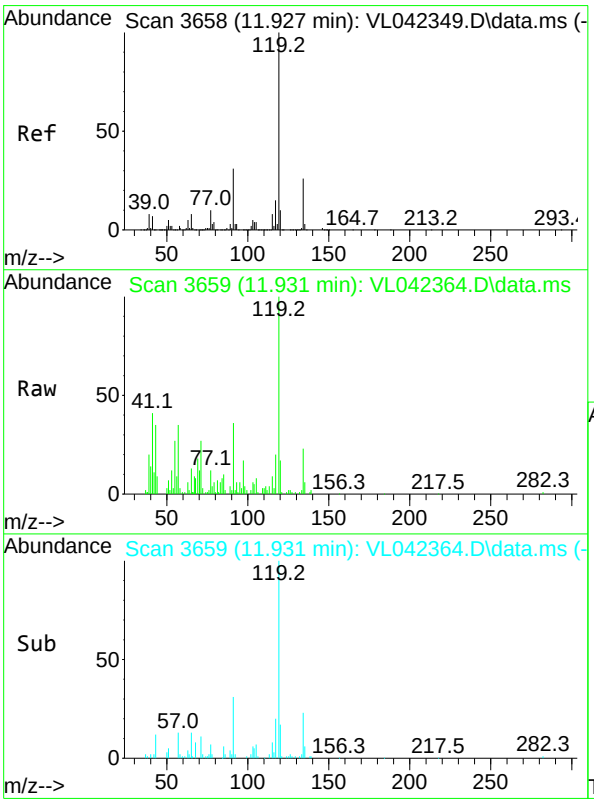
Ion	Ratio	Lower	Upper
95	100		
174	57.3	48.5	72.7
175	4.3	3.7	5.5



Instrument :
MSVOA_L
ClientSampleId :
IA-B1-1-3252025

Manual Integrations
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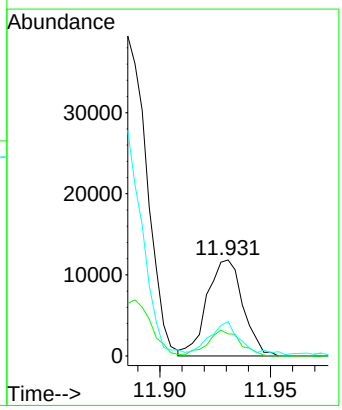
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

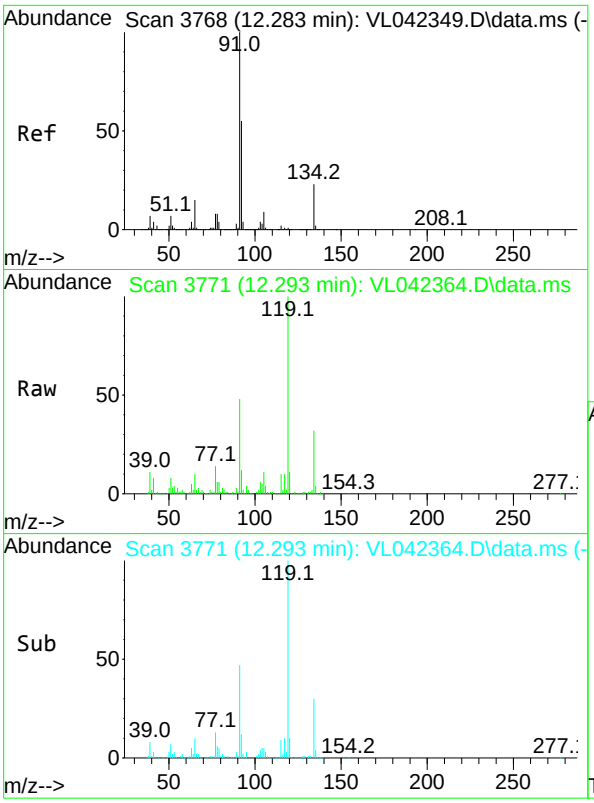


#69
p-Isopropyltoluene
Concen: 0.169 ppbv
RT: 11.931 min Scan# 3659
Delta R.T. 0.004 min
Lab File: VL042364.D
Acq: 17 Apr 2025 18:58

Tgt Ion:119 Resp: 13409

Ion	Ratio	Lower	Upper
119	100		
134	24.4	20.0	30.0
91	31.1	24.4	36.6





#70
n-Butylbenzene
Concen: 0.978 ppbv m
RT: 12.293 min Scan# 3
Delta R.T. 0.010 min
Lab File: VL042364.D
Acq: 17 Apr 2025 18:58

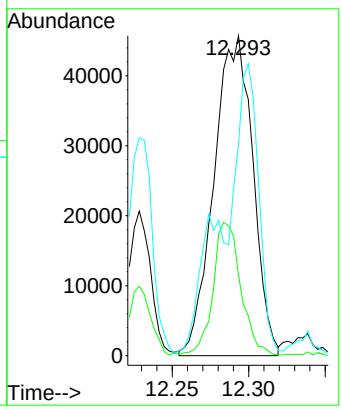
Tgt Ion: 91 Resp: 8099

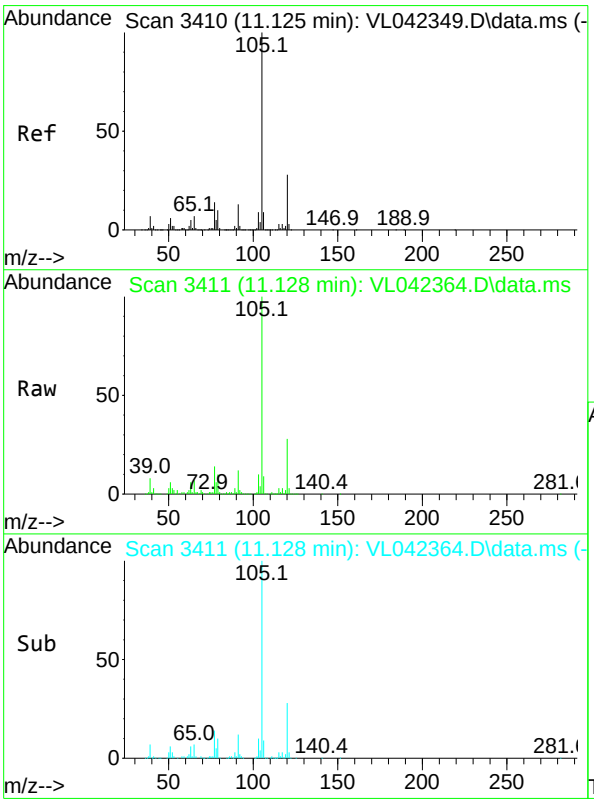
Ion	Ratio	Lower	Upper
91	100		
92	30.4	44.2	66.4#
134	0.0	18.2	27.4#

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-1-3252025

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

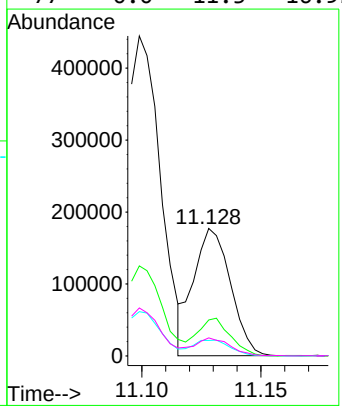


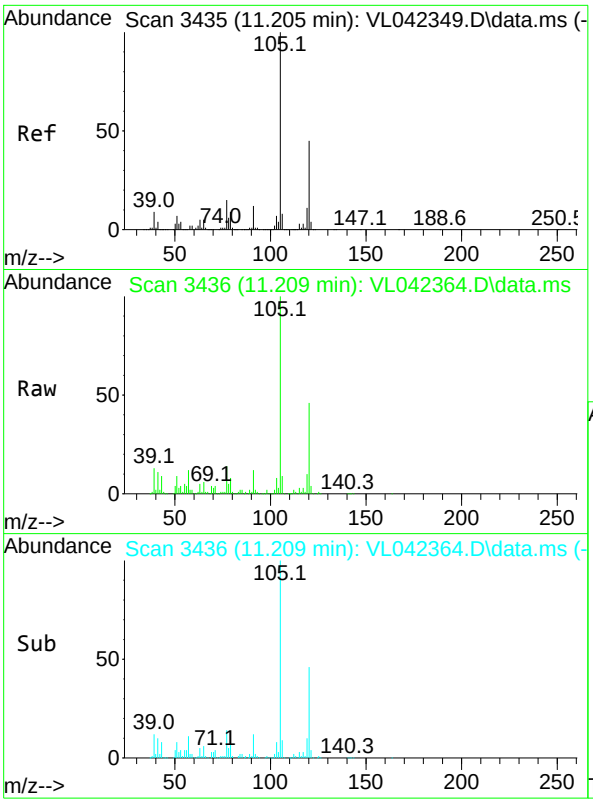


#72
4-Ethyltoluene
Concen: 3.212 ppbv
RT: 11.128 min Scan# 3411
Delta R.T. 0.004 min
Lab File: VL042364.D
Acq: 17 Apr 2025 18:58

Tgt Ion:105 Resp: 191371

Ion	Ratio	Lower	Upper
105	100		
120	0.0	23.2	34.8#
91	0.0	10.4	15.6#
77	0.0	11.3	16.9#

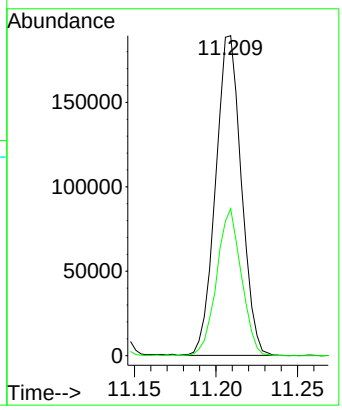




#73
1,3,5-Trimethylbenzene
Concen: 3.951 ppbv
RT: 11.209 min Scan# 34
Delta R.T. 0.004 min
Lab File: VL042364.D
Acq: 17 Apr 2025 18:58

Tgt Ion:105 Resp: 20782

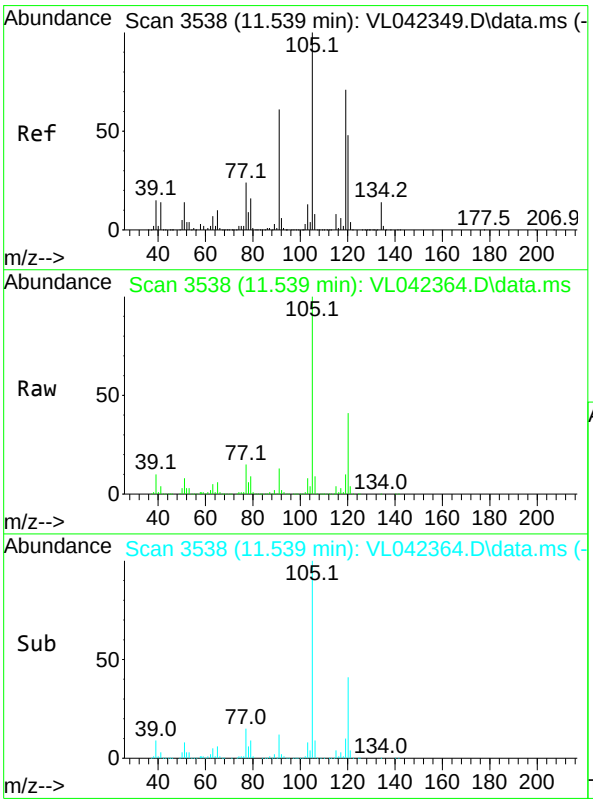
Ion	Ratio	Lower	Upper
105	100		
120	45.9	35.6	53.4



Instrument :
MSVOA_L
ClientSampleId :
IA-B1-1-3252025

Manual Integrations
APPROVED

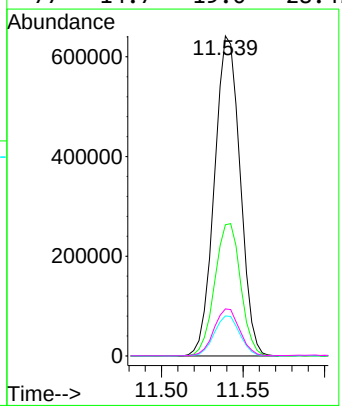
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

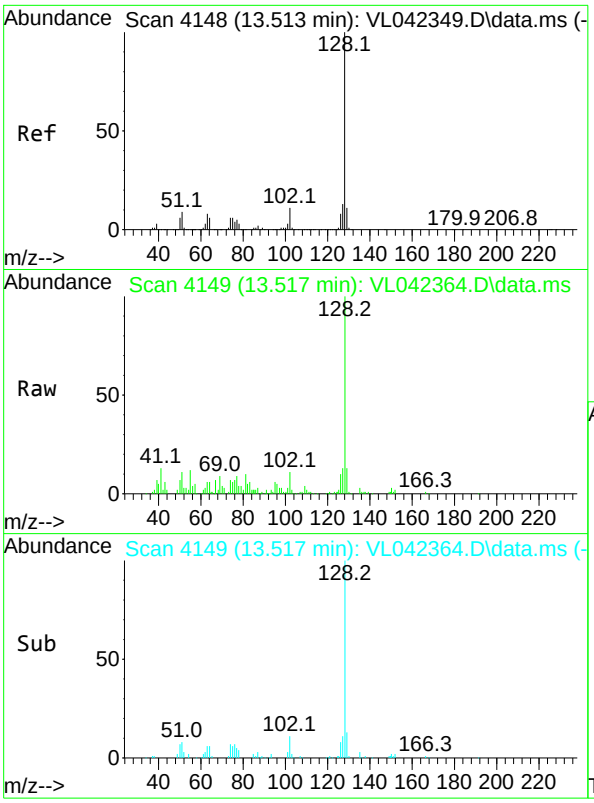


#74
1,2,4-Trimethylbenzene
Concen: 11.415 ppbv
RT: 11.539 min Scan# 3538
Delta R.T. 0.000 min
Lab File: VL042364.D
Acq: 17 Apr 2025 18:58

Tgt Ion:105 Resp: 701287

Ion	Ratio	Lower	Upper
105	100		
120	41.0	38.1	57.1
91	12.5	48.8	73.2#
77	14.7	19.0	28.4#

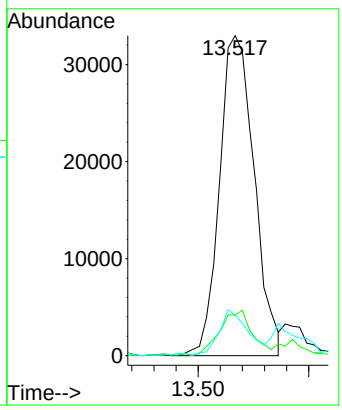




#79
Naphthalene
Concen: 0.491 ppbv
RT: 13.517 min Scan# 4
Delta R.T. 0.004 min
Lab File: VL042364.D
Acq: 17 Apr 2025 18:58

Tgt Ion:128 Resp: 3605

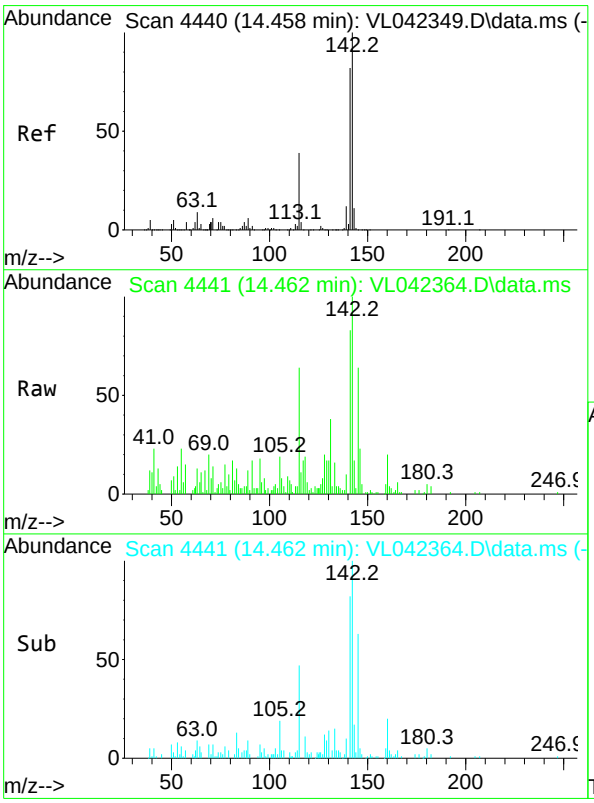
Ion	Ratio	Lower	Upper
128	100		
127	12.5	10.6	15.8
129	12.0	8.6	12.8



Instrument :
MSVOA_L
ClientSampleId :
IA-B1-1-3252025

Manual Integrations
APPROVED

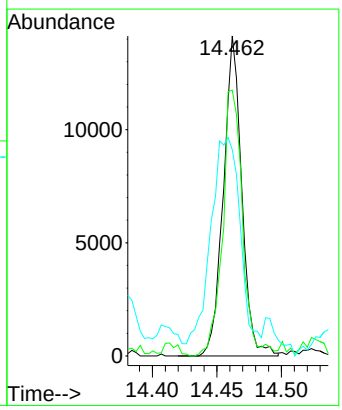
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#80
Naphthalene,2-methyl-
Concen: 0.335 ppbv
RT: 14.462 min Scan# 4441
Delta R.T. 0.004 min
Lab File: VL042364.D
Acq: 17 Apr 2025 18:58

Tgt Ion:142 Resp: 14016

Ion	Ratio	Lower	Upper
142	100		
141	90.0	66.8	100.2
115	113.1	33.4	50.2#



LSC Area Percent Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042364.D
Acq On : 17 Apr 2025 18:58
Operator : SY/MD
Sample : Q1668-04
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument : MSVOA_L
ClientSampleId : IA-B1-1-3252025

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 3 Min Area: 3 % of largest Peak
Start Thrs: 0.001 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 0

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

Signal : TIC: VL042364.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.431	410	415	421	rBV	4149797	4633093	100.00%	10.435%
2	1.470	424	427	430	rBV2	104544	55900	1.21%	0.126%
3	1.561	451	455	460	rVB	325870	164351	3.55%	0.370%
4	1.622	471	474	478	rVB	267365	141899	3.06%	0.320%
5	1.722	501	505	511	rBV	748457	445609	9.62%	1.004%
6	1.845	535	543	548	rBV2	329873	338063	7.30%	0.761%
7	1.887	548	556	560	rBV2	75922	63419	1.37%	0.143%
8	1.965	576	580	586	rVB	172765	116220	2.51%	0.262%
9	2.066	602	611	615	rBV	249554	217788	4.70%	0.491%
10	2.477	733	738	745	rVB	138280	139694	3.02%	0.315%
11	2.629	777	785	793	rVB	106940	112510	2.43%	0.253%
12	2.791	828	835	841	rBV	431863	450687	9.73%	1.015%
13	2.829	841	847	859	rVB	368014	415026	8.96%	0.935%
14	3.234	963	972	981	rVB2	101903	137733	2.97%	0.310%
15	3.664	1093	1105	1110	rBV	46422	72602	1.57%	0.164%
16	3.694	1110	1114	1127	rVB2	43376	61368	1.32%	0.138%
17	3.862	1154	1166	1178	rBV3	102022	173665	3.75%	0.391%
18	3.962	1184	1197	1211	rBV	571622	923144	19.93%	2.079%
19	4.059	1211	1227	1234	rVV2	164939	291971	6.30%	0.658%
20	4.101	1234	1240	1252	rVB	70413	118333	2.55%	0.267%
21	4.276	1281	1294	1309	rVB4	200690	389529	8.41%	0.877%
22	4.448	1335	1347	1360	rBV4	38252	78598	1.70%	0.177%
23	4.529	1360	1372	1377	rBV7	33332	65230	1.41%	0.147%
24	4.600	1386	1394	1403	rBV5	37203	72872	1.57%	0.164%
25	4.648	1403	1409	1423	rVB3	27611	51410	1.11%	0.116%
26	4.988	1498	1514	1527	rBV3	106918	223015	4.81%	0.502%
27	5.678	1703	1727	1741	rBV5	105024	283698	6.12%	0.639%
28	5.762	1741	1753	1781	rVB2	468862	1203007	25.97%	2.709%
29	6.940	2102	2117	2135	rVB2	170021	346999	7.49%	0.782%
30	7.380	2242	2253	2263	rBV4	37248	71468	1.54%	0.161%
31	7.623	2309	2328	2339	rBV9	67933	196349	4.24%	0.442%
32	7.697	2339	2351	2363	rVB6	55829	128625	2.78%	0.290%
33	8.141	2475	2488	2505	rVB6	42865	79432	1.71%	0.179%
34	8.309	2521	2540	2557	rVB6	112011	269748	5.82%	0.608%
35	8.885	2702	2718	2729	rBV	781432	1217152	26.27%	2.741%
36	8.985	2740	2749	2764	rVB6	126336	242099	5.23%	0.545%

LSC Area Percent Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042364.D
Acq On : 17 Apr 2025 18:58
Operator : SY/MD
Sample : Q1668-04
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-1-3252025

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 3 Min Area: 3 % of largest Peak
Start Thrs: 0.001 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 0

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

37	9.102	2777	2785	2792	rBV4	40278	55304	1.19%	0.125%
38	9.151	2792	2800	2812	rVB3	84218	133718	2.89%	0.301%
39	9.358	2854	2864	2877	rBV	280648	463786	10.01%	1.045%
40	9.422	2877	2884	2892	rVB3	69732	95712	2.07%	0.216%
41	9.536	2901	2919	2936	rVV	1164405	2116857	45.69%	4.768%
42	9.636	2936	2950	2954	rVV6	56495	100418	2.17%	0.226%
43	9.659	2954	2957	2966	rVV6	65775	97391	2.10%	0.219%
44	9.736	2966	2981	2993	rVB5	267004	626021	13.51%	1.410%
45	9.863	3008	3020	3029	rBV2	311391	506480	10.93%	1.141%
46	9.969	3038	3053	3061	rBV	655737	1016424	21.94%	2.289%
47	10.002	3061	3063	3073	rVB6	40417	49397	1.07%	0.111%
48	10.083	3078	3088	3090	rBV5	91090	117524	2.54%	0.265%
49	10.105	3090	3095	3102	rVV2	157502	195241	4.21%	0.440%
50	10.151	3102	3109	3116	rVB5	60311	84868	1.83%	0.191%
51	10.219	3123	3130	3140	rVB4	45767	82068	1.77%	0.185%
52	10.358	3157	3173	3175	rBV	490847	590277	12.74%	1.329%
53	10.380	3175	3180	3189	rVV2	963010	1211002	26.14%	2.727%
54	10.435	3189	3197	3205	rVB4	124000	168154	3.63%	0.379%
55	10.484	3205	3212	3223	rVB2	46059	61037	1.32%	0.137%
56	10.546	3223	3231	3237	rBV2	59415	76998	1.66%	0.173%
57	10.620	3247	3254	3257	rBV5	39108	50070	1.08%	0.113%
58	10.668	3264	3269	3276	rVB5	66224	78523	1.69%	0.177%
59	10.775	3290	3302	3306	rBV4	127688	199251	4.30%	0.449%
60	10.801	3306	3310	3316	rVB4	72740	85572	1.85%	0.193%
61	10.859	3322	3328	3334	rVB6	106690	130595	2.82%	0.294%
62	10.905	3334	3342	3354	rVB2	160051	200667	4.33%	0.452%
63	10.992	3354	3369	3383	rBV	296314	516710	11.15%	1.164%
64	11.063	3383	3391	3395	rBV5	32012	49171	1.06%	0.111%
65	11.099	3395	3402	3408	rBV	1169118	1337061	28.86%	3.011%
66	11.128	3408	3411	3423	rVB	471907	523138	11.29%	1.178%
67	11.206	3423	3435	3443	rBV2	686425	846901	18.28%	1.907%
68	11.261	3443	3452	3455	rBV2	151827	172159	3.72%	0.388%
69	11.283	3455	3459	3465	rVV	234651	241062	5.20%	0.543%
70	11.319	3465	3470	3473	rVV2	259775	261073	5.63%	0.588%
71	11.342	3473	3477	3483	rVV2	349729	367602	7.93%	0.828%
72	11.406	3491	3497	3503	rBV	307987	334467	7.22%	0.753%
73	11.539	3530	3538	3548	rBV	1872101	2110344	45.55%	4.753%
74	11.594	3548	3555	3568	rVV6	132128	228622	4.93%	0.515%
75	11.652	3568	3573	3578	rVB3	43425	46638	1.01%	0.105%
76	11.730	3586	3597	3599	rBV5	93777	128576	2.78%	0.290%

LSC Area Percent Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042364.D
Acq On : 17 Apr 2025 18:58
Operator : SY/MD
Sample : Q1668-04
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument : MSVOA_L
ClientSampleId : IA-B1-1-3252025

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 3 Min Area: 3 % of largest Peak
Start Thrs: 0.001 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 0

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

77	11.756	3599	3605	3619	rVB4	633132	920681	19.87%	2.074%
78	11.850	3623	3634	3635	rBV5	37483	47215	1.02%	0.106%
79	11.885	3638	3645	3652	rVB	537515	586531	12.66%	1.321%
80	11.947	3660	3664	3671	rVB5	67259	81107	1.75%	0.183%
81	12.021	3676	3687	3692	rBV	333753	435569	9.40%	0.981%
82	12.044	3692	3694	3705	rVB7	139527	130568	2.82%	0.294%
83	12.102	3705	3712	3719	rBV3	90572	108796	2.35%	0.245%
84	12.138	3719	3723	3728	rBV2	79624	73253	1.58%	0.165%
85	12.174	3728	3734	3738	rBV3	117841	130693	2.82%	0.294%
86	12.199	3738	3742	3746	rVV	143236	141085	3.05%	0.318%
87	12.229	3746	3751	3759	rVB	467234	476714	10.29%	1.074%
88	12.274	3759	3765	3768	rBV	179042	194053	4.19%	0.437%
89	12.300	3768	3773	3779	rVB2	380804	400390	8.64%	0.902%
90	12.410	3801	3807	3813	rVB2	298175	316513	6.83%	0.713%
91	12.445	3813	3818	3823	rVB2	183142	174893	3.77%	0.394%
92	12.481	3823	3829	3833	rBV2	197231	196802	4.25%	0.443%
93	12.510	3833	3838	3841	rVV	313592	347242	7.49%	0.782%
94	12.526	3841	3843	3847	rVV	252288	241485	5.21%	0.544%
95	12.549	3847	3850	3856	rVB2	301391	277853	6.00%	0.626%
96	12.591	3856	3863	3875	rVB2	466121	676215	14.60%	1.523%
97	12.659	3875	3884	3893	rBV6	60639	102007	2.20%	0.230%
98	12.708	3893	3899	3904	rVB4	46781	47360	1.02%	0.107%
99	12.779	3916	3921	3923	rBV4	68935	69048	1.49%	0.156%
100	12.798	3923	3927	3932	rVV3	110336	139085	3.00%	0.313%
101	12.831	3932	3937	3943	rVV	587974	573659	12.38%	1.292%
102	12.866	3943	3948	3957	rVB9	87146	110674	2.39%	0.249%
103	12.921	3957	3965	3970	rBV	242531	271089	5.85%	0.611%
104	12.957	3970	3976	3984	rVB	326239	326847	7.05%	0.736%
105	13.005	3984	3991	4003	rVB8	182555	280271	6.05%	0.631%
106	13.070	4003	4011	4017	rVB5	59101	70192	1.52%	0.158%
107	13.109	4017	4023	4025	rBV2	121761	136125	2.94%	0.307%
108	13.132	4025	4030	4037	rVV2	307754	349809	7.55%	0.788%
109	13.170	4037	4042	4047	rVV3	215301	249142	5.38%	0.561%
110	13.193	4047	4049	4054	rVB3	107681	79356	1.71%	0.179%
111	13.232	4054	4061	4067	rBV2	367868	470558	10.16%	1.060%
112	13.261	4067	4070	4075	rVB	150124	137242	2.96%	0.309%
113	13.300	4075	4082	4087	rBV6	69995	89398	1.93%	0.201%
114	13.335	4087	4093	4105	rVV4	385543	542668	11.71%	1.222%
115	13.391	4105	4110	4115	rVB3	186237	196017	4.23%	0.441%
116	13.429	4115	4122	4126	rBV4	146994	158744	3.43%	0.358%

LSC Area Percent Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042364.D
Acq On : 17 Apr 2025 18:58
Operator : SY/MD
Sample : Q1668-04
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-1-3252025

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 3 Min Area: 3 % of largest Peak
Start Thrs: 0.001 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 0

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

117	13.455	4126	4130	4135	rVV	80751	69670	1.50%	0.157%
118	13.488	4135	4140	4145	rVB2	94425	81797	1.77%	0.184%
119	13.520	4145	4150	4153	rBV3	68492	72156	1.56%	0.163%
120	13.539	4153	4156	4162	rVB3	95753	92681	2.00%	0.209%
121	13.578	4162	4168	4172	rBV3	173093	195963	4.23%	0.441%
122	13.598	4172	4174	4179	rVB3	119430	81756	1.76%	0.184%
123	13.643	4179	4188	4189	rBV6	60364	72165	1.56%	0.163%
124	13.666	4189	4195	4205	rVB6	246716	408512	8.82%	0.920%
125	13.730	4205	4215	4220	rBV	460485	449619	9.70%	1.013%
126	13.756	4220	4223	4232	rVB4	68513	86243	1.86%	0.194%
127	13.834	4232	4247	4252	rBV5	175394	252466	5.45%	0.569%
128	13.863	4252	4256	4260	rVV2	91811	92889	2.00%	0.209%
129	13.905	4260	4269	4274	rVB5	109145	151323	3.27%	0.341%
130	13.983	4289	4293	4300	rVB5	86029	95999	2.07%	0.216%
131	14.035	4300	4309	4311	rVV8	66732	78173	1.69%	0.176%
132	14.051	4311	4314	4322	rVV8	53143	77862	1.68%	0.175%
133	14.099	4322	4329	4330	rVV5	106160	93376	2.02%	0.210%
134	14.112	4330	4333	4345	rVB2	124824	173301	3.74%	0.390%
135	14.239	4362	4372	4386	rVB2	268438	419237	9.05%	0.944%
136	14.306	4386	4393	4399	rBV8	61120	66847	1.44%	0.151%
137	14.345	4399	4405	4411	rBV4	98409	120313	2.60%	0.271%
138	14.452	4430	4438	4446	rBV4	140829	193470	4.18%	0.436%
139	14.491	4446	4450	4455	rVV7	46602	50798	1.10%	0.114%
140	14.527	4455	4461	4473	rVB	206040	238966	5.16%	0.538%
141	14.591	4473	4481	4487	rBV4	40320	55723	1.20%	0.126%
142	14.669	4498	4505	4517	rBV7	132742	229855	4.96%	0.518%
143	14.792	4540	4543	4552	rVB8	38282	48662	1.05%	0.110%
144	15.106	4635	4640	4649	rVB10	42110	61795	1.33%	0.139%
145	15.245	4673	4683	4691	rVB7	78664	109219	2.36%	0.246%
146	15.585	4779	4788	4802	rVB7	49036	73265	1.58%	0.165%

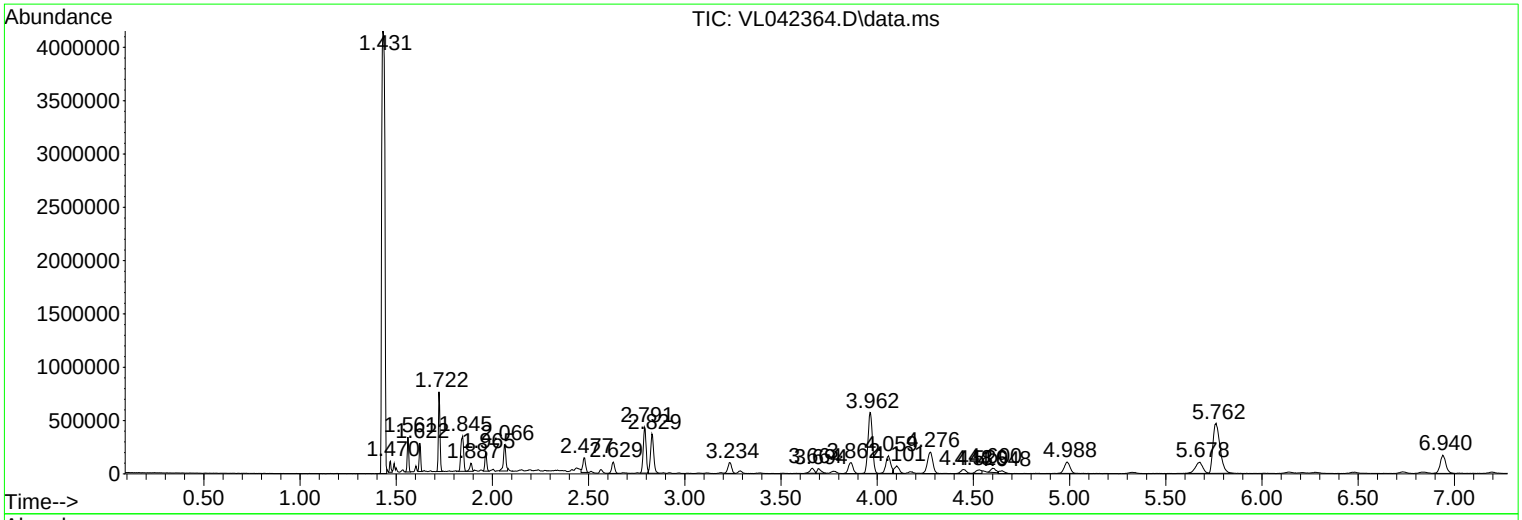
Sum of corrected areas: 44400235

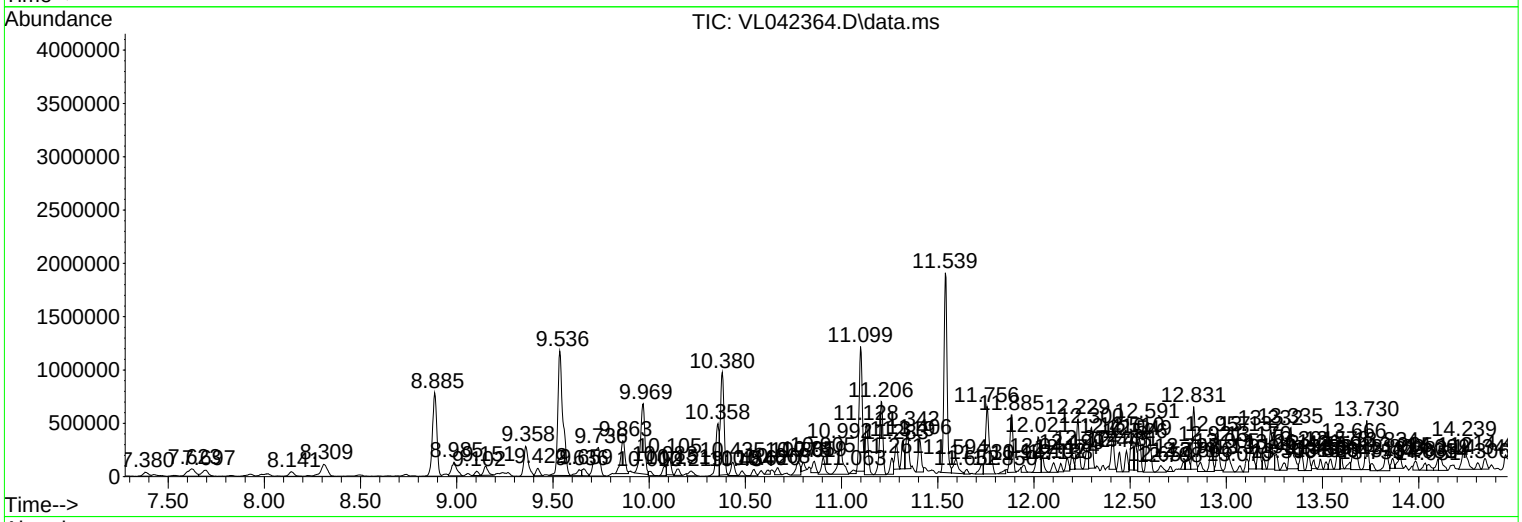
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042364.D
Acq On : 17 Apr 2025 18:58
Operator : SY/MD
Sample : Q1668-04
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

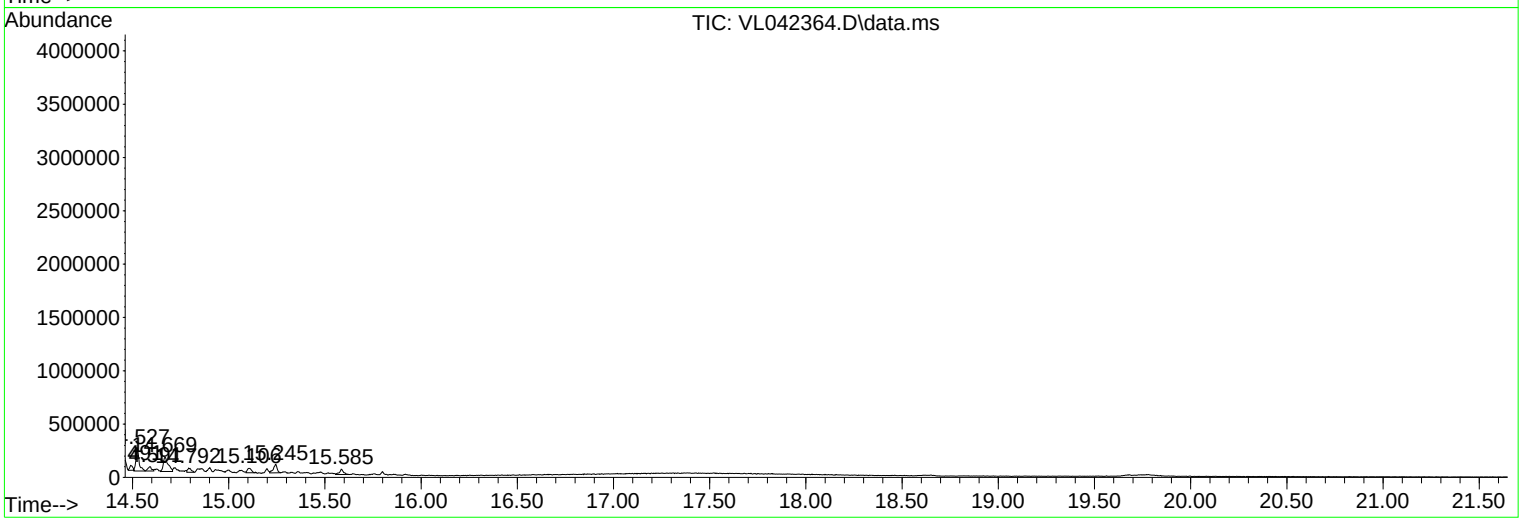
Instrument :
MSVOA_L
ClientSampleId :
IA-B1-1-3252025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P







Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042364.D
Acq On : 17 Apr 2025 18:58
Operator : SY/MD
Sample : Q1668-04
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-1-3252025

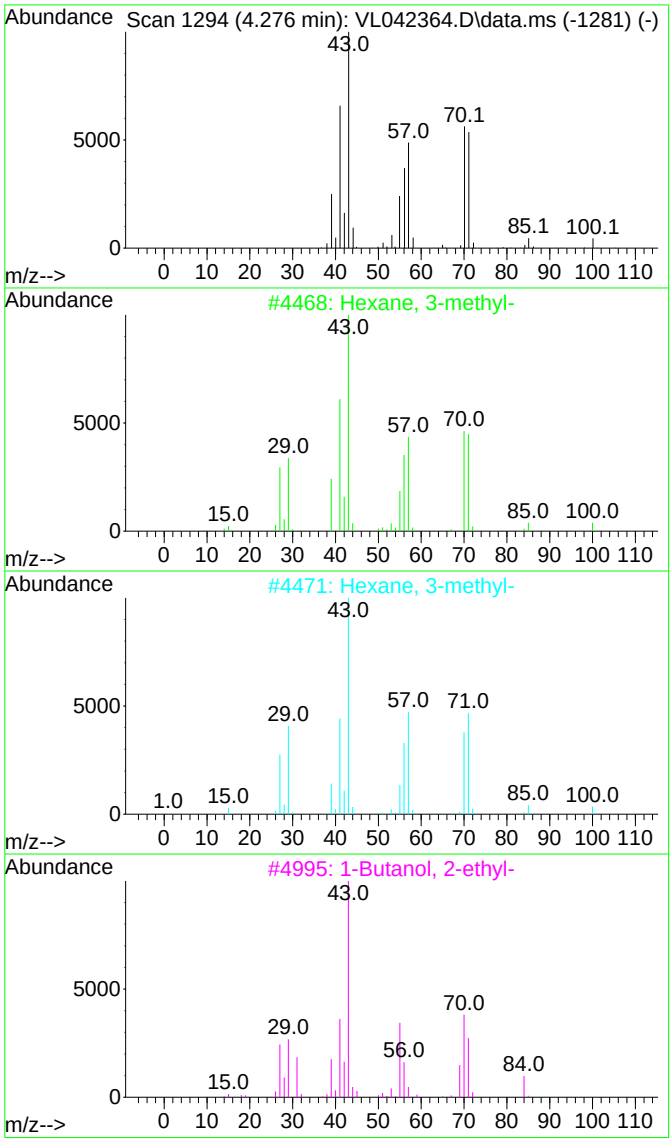
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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

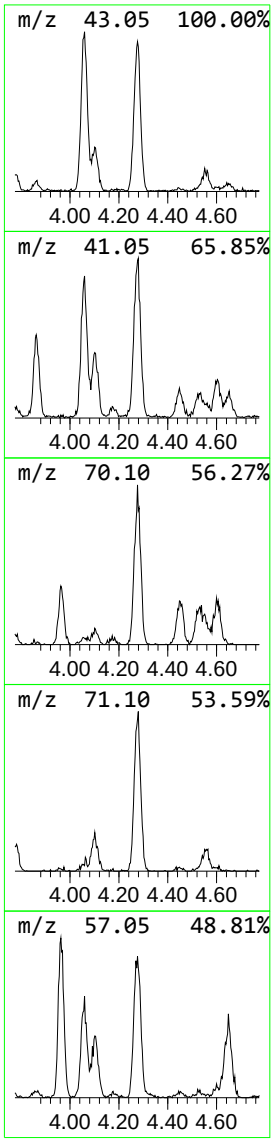
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 1 Hexane, 3-methyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.276	4.22 ppbv	389529	1,4-Difluorobenzene	3.962

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 3-methyl-	100	C7H16	000589-34-4	91
2	Hexane, 3-methyl-	100	C7H16	000589-34-4	90
3	1-Butanol, 2-ethyl-	102	C6H14O	000097-95-0	78
4	Heptane, 4-methyl-	114	C8H18	000589-53-7	64
5	Hexane, 3-methyl-	100	C7H16	000589-34-4	64





Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042364.D
Acq On : 17 Apr 2025 18:58
Operator : SY/MD
Sample : Q1668-04
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-1-3252025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

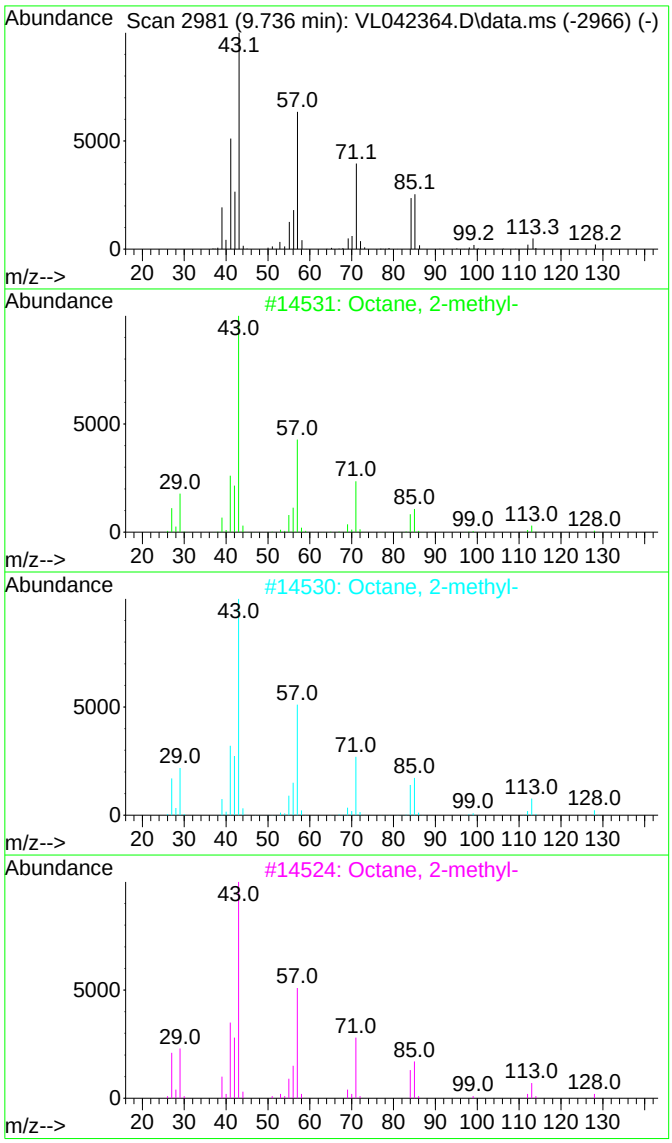
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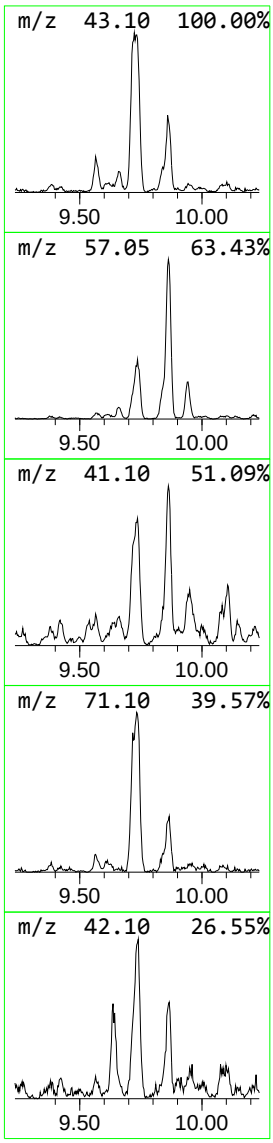
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Peak Number 2 Octane, 2-methyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.736	5.14 ppbv	626021	Chlorobenzene-d5	8.885

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octane, 2-methyl-	128	C9H20	003221-61-2	91
2	Octane, 2-methyl-	128	C9H20	003221-61-2	90
3	Octane, 2-methyl-	128	C9H20	003221-61-2	72
4	Octane, 4-methyl-	128	C9H20	002216-34-4	72
5	Undecane, 5-methyl-	170	C12H26	001632-70-8	72





Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042364.D
Acq On : 17 Apr 2025 18:58
Operator : SY/MD
Sample : Q1668-04
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-1-3252025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

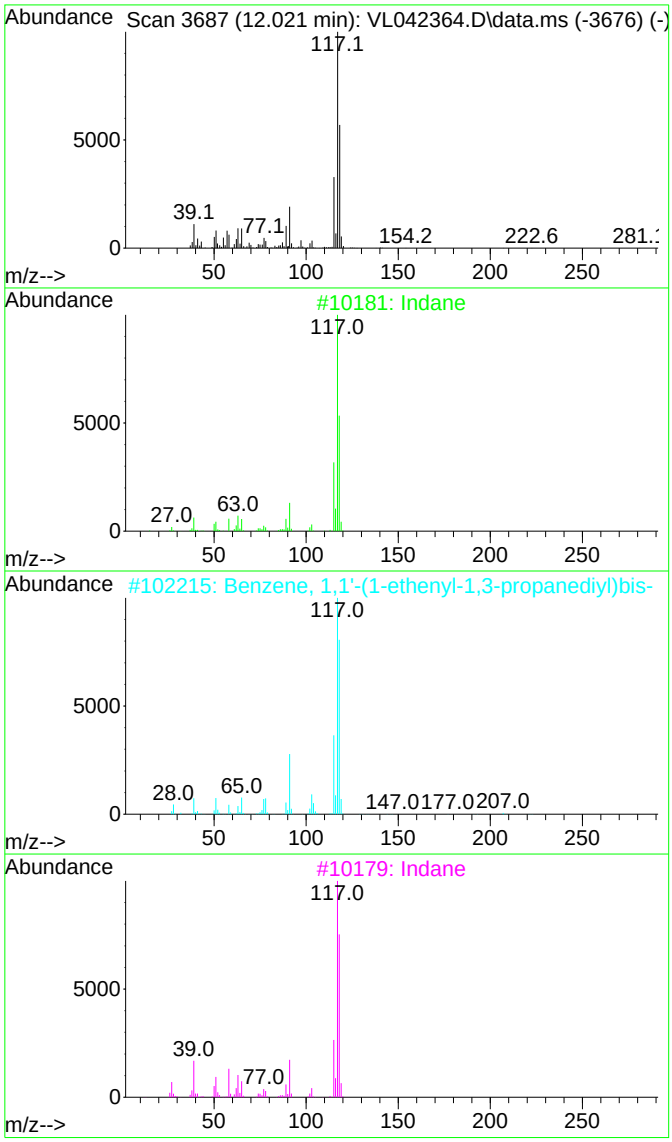
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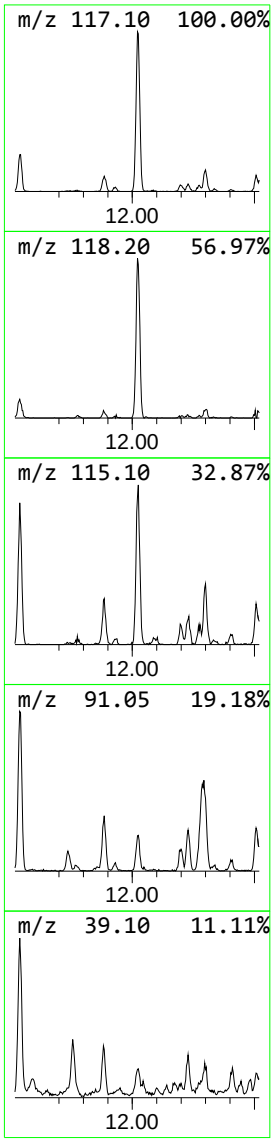
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Peak Number 3 Indane Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.021	3.58 ppbv	435569	Chlorobenzene-d5	8.885

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Indane	118	C9H10	000496-11-7	91
2	Benzene, 1,1'-(1-ethenyl-1,3-pro...	222	C17H18	061141-97-7	91
3	Indane	118	C9H10	000496-11-7	89
4	Benzene, cyclopropyl-	118	C9H10	000873-49-4	81
5	Benzene, 1-ethenyl-2-methyl-	118	C9H10	000611-15-4	76





Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042364.D
Acq On : 17 Apr 2025 18:58
Operator : SY/MD
Sample : Q1668-04
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-1-3252025

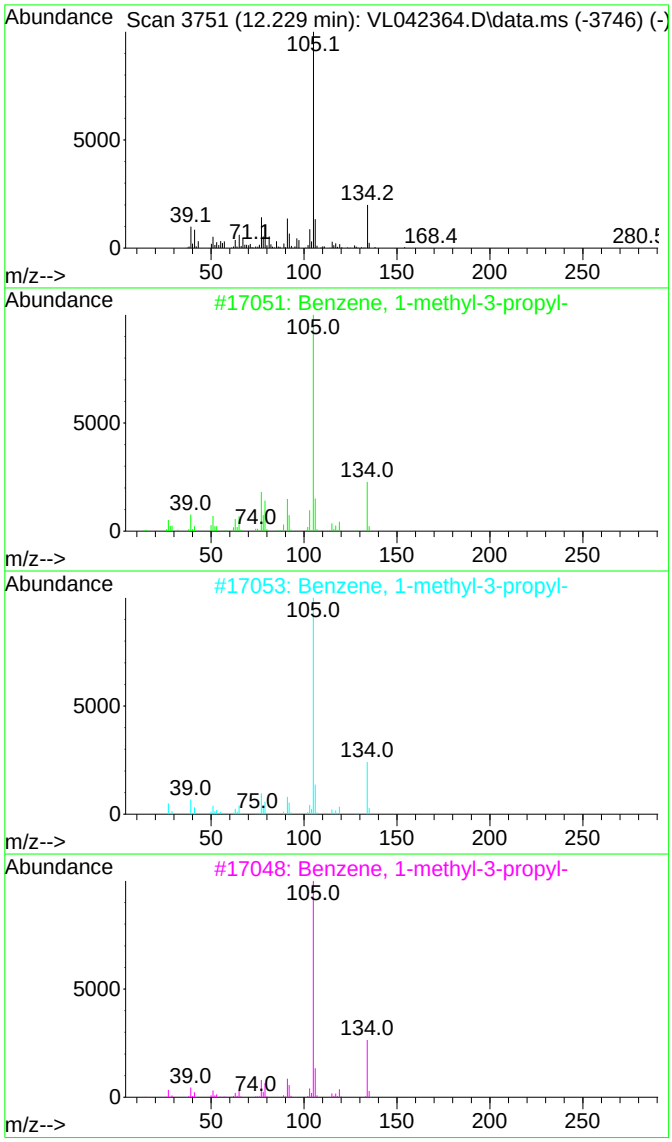
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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

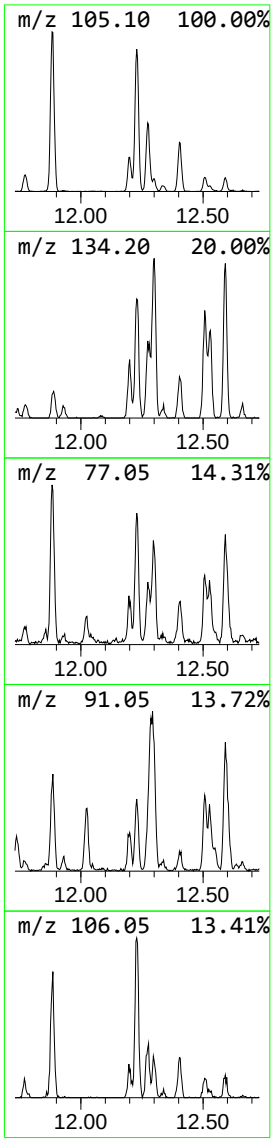
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 4 Benzene, 1-methyl-3-propyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.229	3.92 ppbv	476714	Chlorobenzene-d5	8.885

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-methyl-3-propyl-	134	C10H14	001074-43-7	93
2	Benzene, 1-methyl-3-propyl-	134	C10H14	001074-43-7	90
3	Benzene, 1-methyl-3-propyl-	134	C10H14	001074-43-7	90
4	Benzene, 1-methyl-4-propyl-	134	C10H14	001074-55-1	87
5	Benzene, (1-methylpropyl)-	134	C10H14	000135-98-8	87





Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042364.D
Acq On : 17 Apr 2025 18:58
Operator : SY/MD
Sample : Q1668-04
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-1-3252025

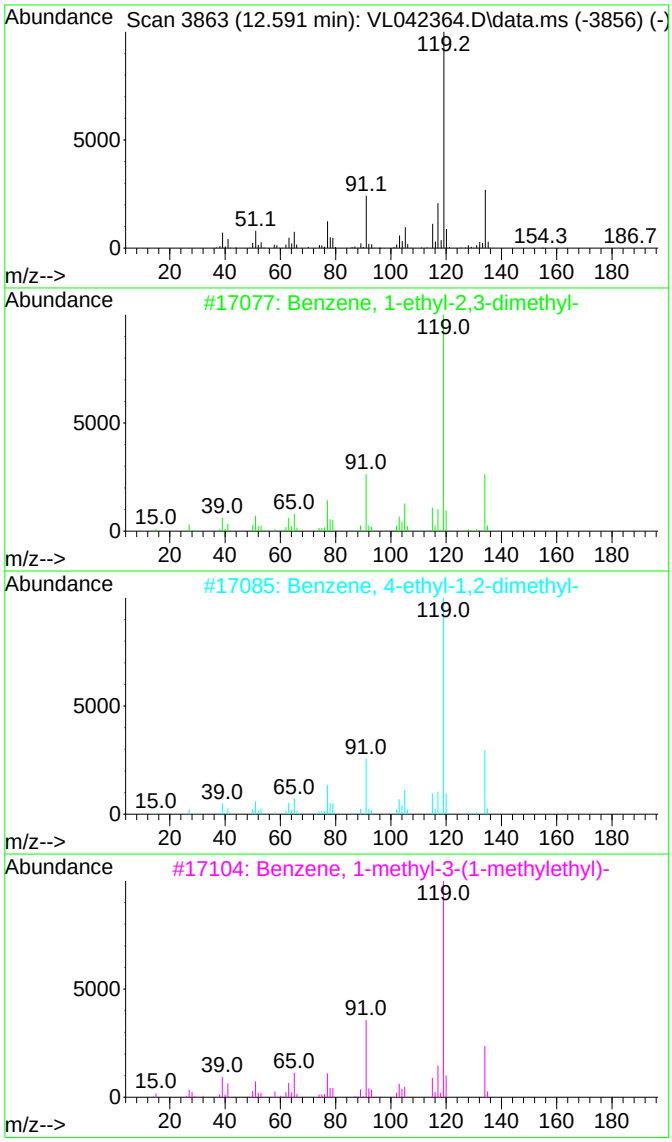
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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

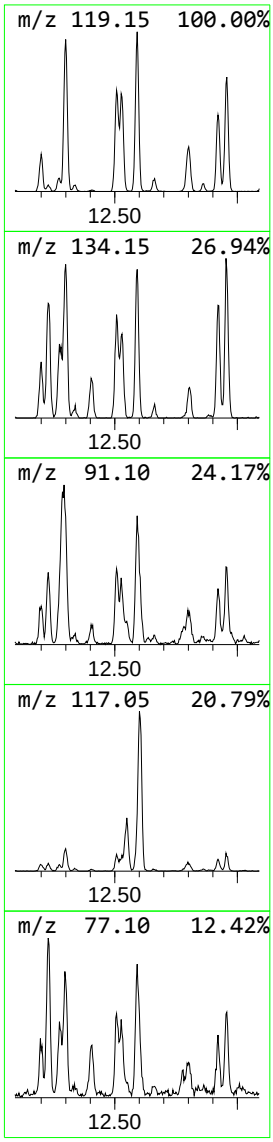
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 5 Benzene, 1-ethyl-2,3-dimethyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.591	5.56 ppbv	676215	Chlorobenzene-d5	8.885

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-ethyl-2,3-dimethyl-	134	C10H14	000933-98-2	94
2	Benzene, 4-ethyl-1,2-dimethyl-	134	C10H14	000934-80-5	94
3	Benzene, 1-methyl-3-(1-methyleth...	134	C10H14	000535-77-3	90
4	Benzene, 1,2,3,5-tetramethyl-	134	C10H14	000527-53-7	87
5	Benzene, 2-ethyl-1,4-dimethyl-	134	C10H14	001758-88-9	87





Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042364.D
Acq On : 17 Apr 2025 18:58
Operator : SY/MD
Sample : Q1668-04
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-1-3252025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

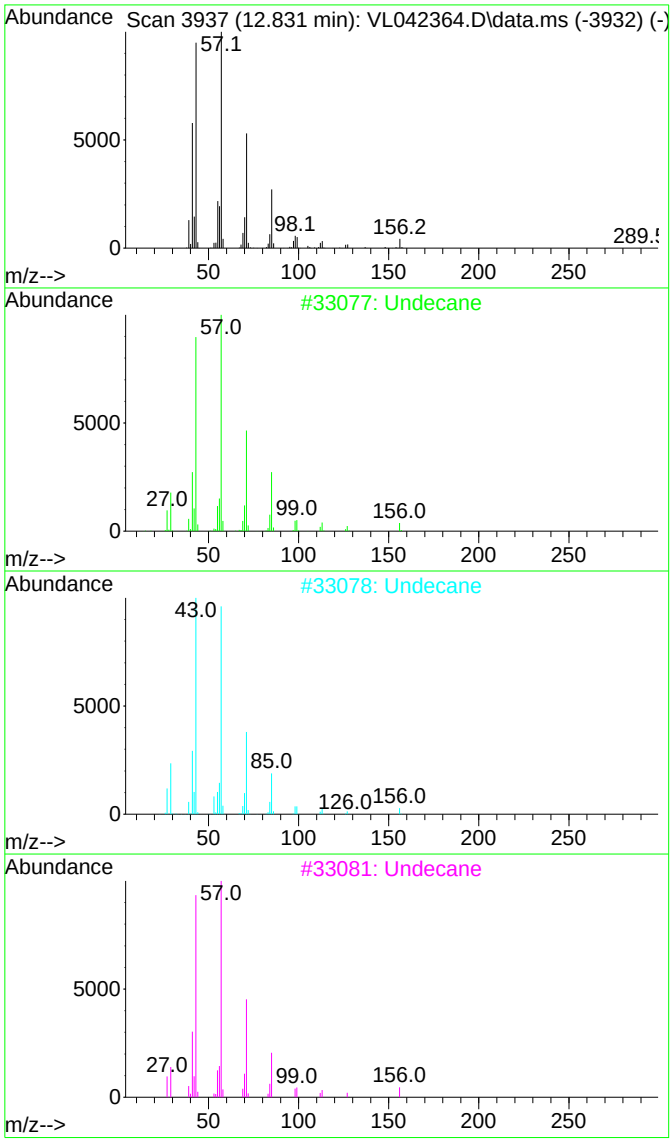
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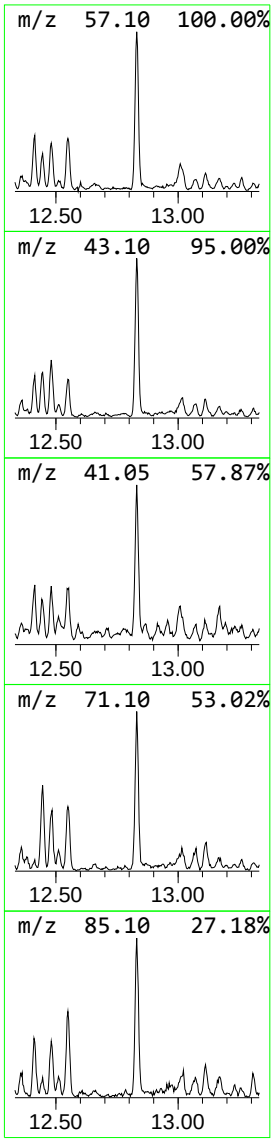
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Peak Number 6 Undecane Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.831	4.71 ppbv	573659	Chlorobenzene-d5	8.885

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Undecane	156	C11H24	001120-21-4	90
2	Undecane	156	C11H24	001120-21-4	90
3	Undecane	156	C11H24	001120-21-4	87
4	Tridecane	184	C13H28	000629-50-5	86
5	Decane	142	C10H22	000124-18-5	72





Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042364.D
Acq On : 17 Apr 2025 18:58
Operator : SY/MD
Sample : Q1668-04
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-1-3252025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

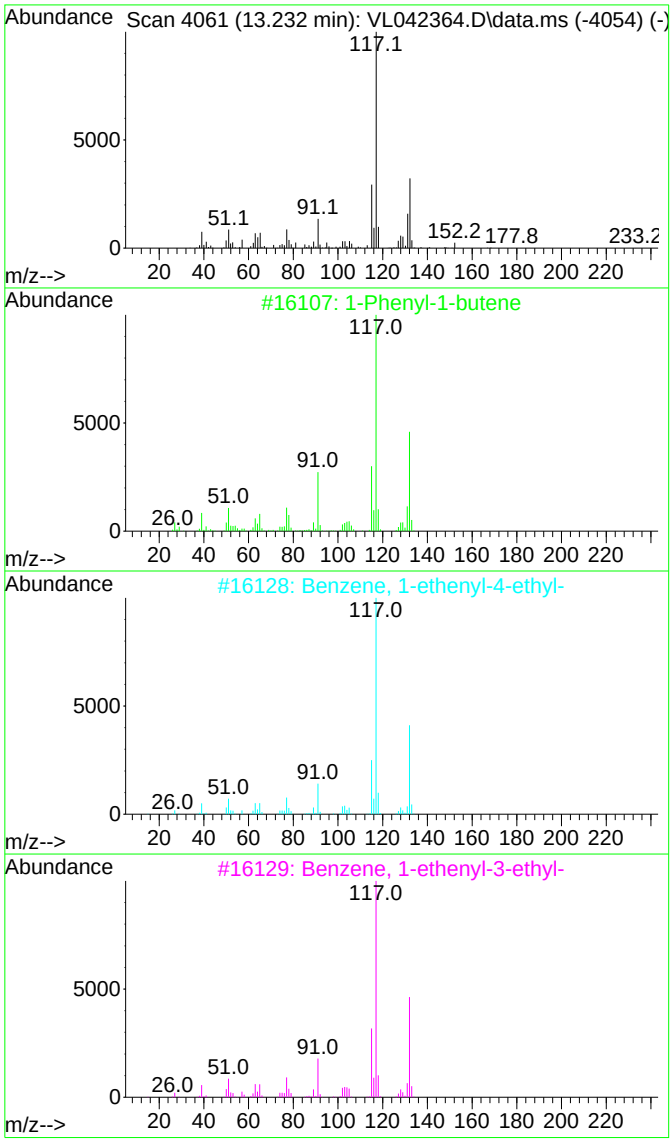
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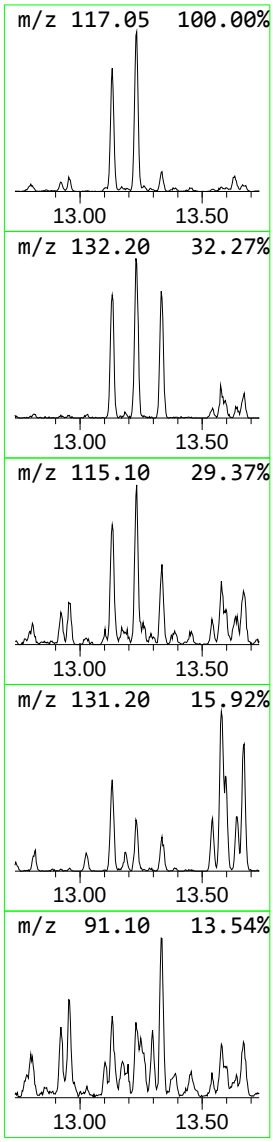
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Peak Number 7 1-Phenyl-1-butene Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.232	3.87 ppbv	470558	Chlorobenzene-d5	8.885

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Phenyl-1-butene	132	C10H12	000824-90-8	94
2	Benzene, 1-ethenyl-4-ethyl-	132	C10H12	003454-07-7	93
3	Benzene, 1-ethenyl-3-ethyl-	132	C10H12	007525-62-4	93
4	Benzene, (2-methyl-1-propenyl)-	132	C10H12	000768-49-0	91
5	Benzene, (1-methyl-1-propenyl)-,...	132	C10H12	000768-00-3	91





Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042364.D
Acq On : 17 Apr 2025 18:58
Operator : SY/MD
Sample : Q1668-04
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-1-3252025

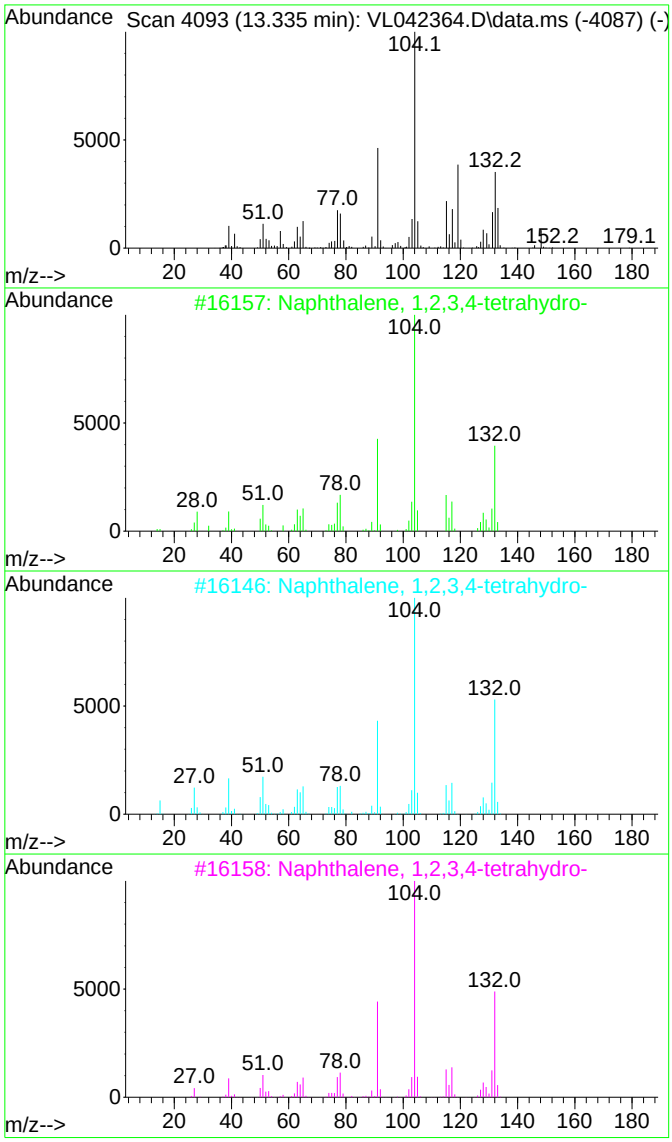
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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

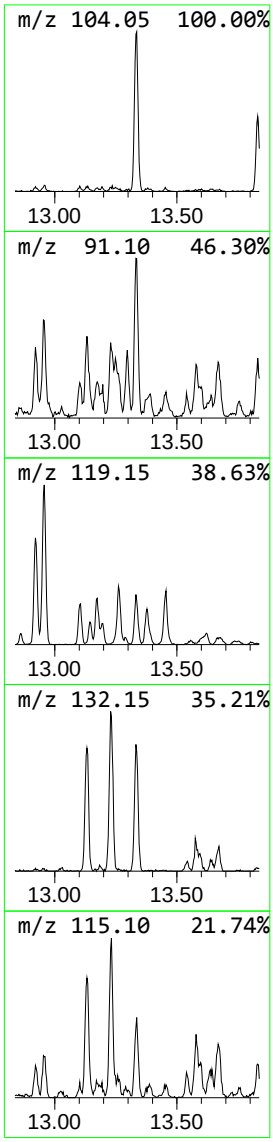
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 8 Naphthalene, 1,2,3,4-tetrah... Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.336	4.46 ppbv	542668	Chlorobenzene-d5	8.885

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1,2,3,4-tetrahydro-	132	C10H12	000119-64-2	95
2	Naphthalene, 1,2,3,4-tetrahydro-	132	C10H12	000119-64-2	70
3	Naphthalene, 1,2,3,4-tetrahydro-	132	C10H12	000119-64-2	70
4	Naphthalene, 1,2,3,4-tetrahydro-	132	C10H12	000119-64-2	70
5	Naphthalene, 1,2,3,4-tetrahydro-	132	C10H12	000119-64-2	70





Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042364.D
Acq On : 17 Apr 2025 18:58
Operator : SY/MD
Sample : Q1668-04
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-1-3252025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

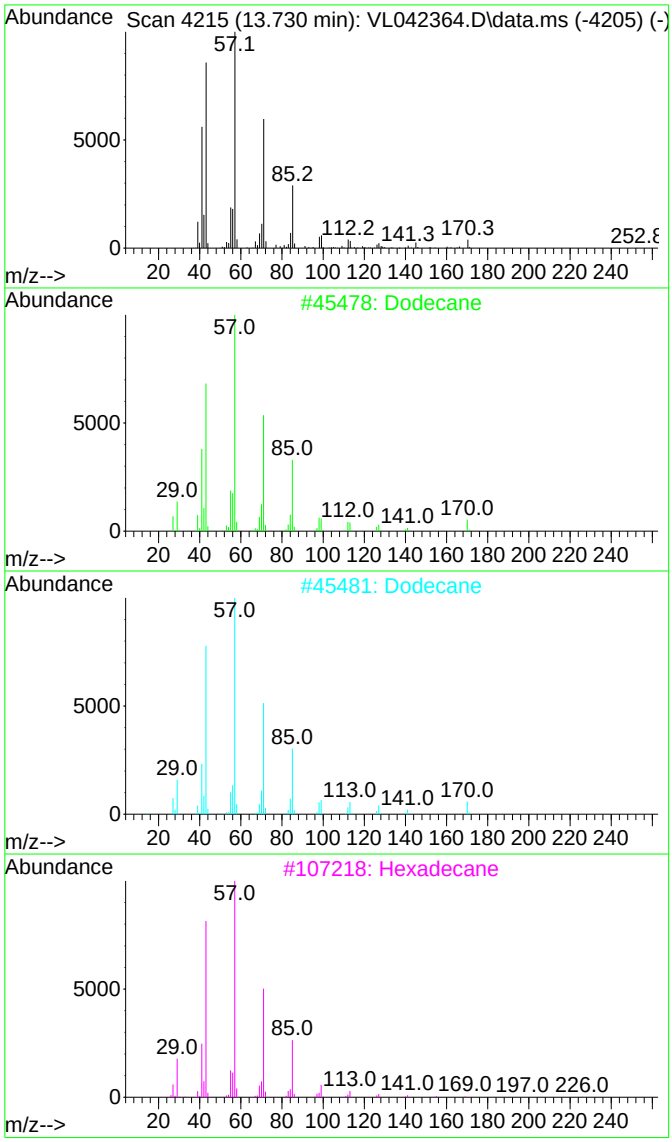
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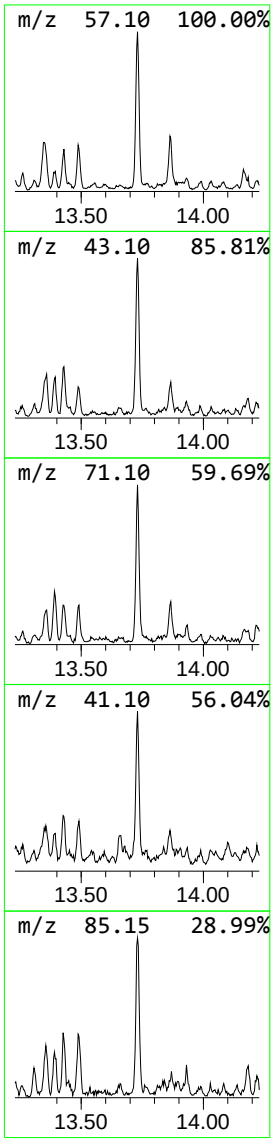
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Peak Number 9 Dodecane Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.730	3.69 ppbv	449619	Chlorobenzene-d5	8.885

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dodecane	170	C12H26	000112-40-3	95
2	Dodecane	170	C12H26	000112-40-3	91
3	Hexadecane	226	C16H34	000544-76-3	86
4	Tetradecane	198	C14H30	000629-59-4	86
5	Tridecane	184	C13H28	000629-50-5	80





Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042364.D
Acq On : 17 Apr 2025 18:58
Operator : SY/MD
Sample : Q1668-04
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-1-3252025

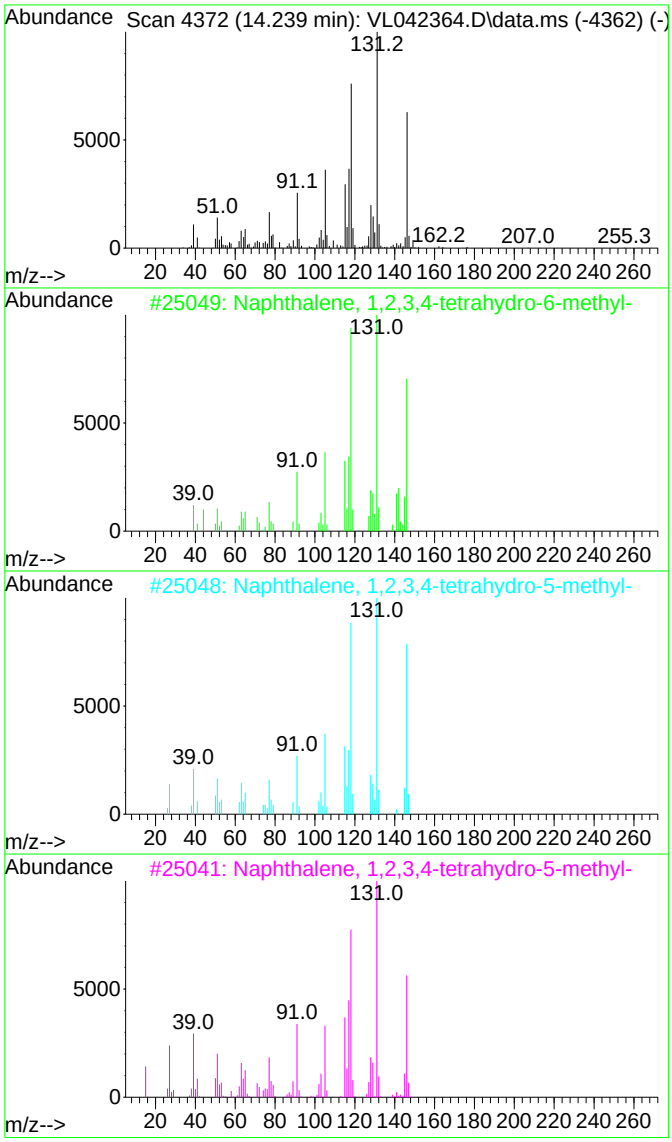
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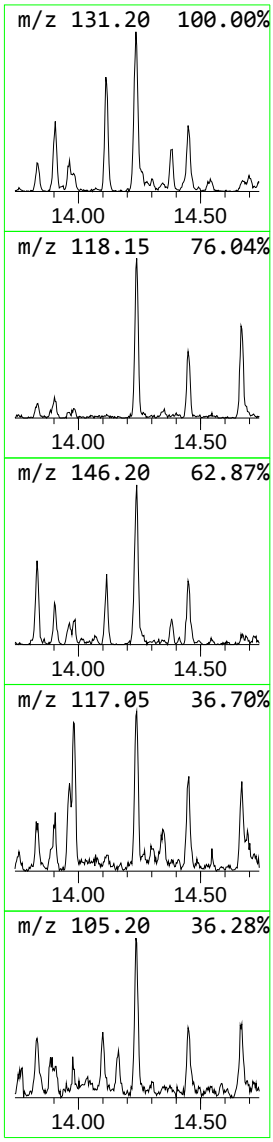
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 10 Naphthalene, 1,2,3,4-tetrah... Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.239	3.44 ppbv	419237	Chlorobenzene-d5	8.885

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1,2,3,4-tetrahydro-...	146	C11H14	001680-51-9	95
2	Naphthalene, 1,2,3,4-tetrahydro-...	146	C11H14	002809-64-5	94
3	Naphthalene, 1,2,3,4-tetrahydro-...	146	C11H14	002809-64-5	94
4	Naphthalene, 1,2,3,4-tetrahydro-...	146	C11H14	002809-64-5	94
5	Naphthalene, 1,2,3,4-tetrahydro-...	146	C11H14	001680-51-9	93





Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042364.D
Acq On : 17 Apr 2025 18:58
Operator : SY/MD
Sample : Q1668-04
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-1-3252025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

					--Internal Standard---		
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Hexane, 3-methyl-	4.276	4.2	ppbv	389529	2	3.962	923144	10.0
Octane, 2-methyl-	9.736	5.1	ppbv	626021	3	8.885	1217150	10.0
Indane	12.021	3.6	ppbv	435569	3	8.885	1217150	10.0
Benzene, 1-meth...	12.229	3.9	ppbv	476714	3	8.885	1217150	10.0
Benzene, 1-ethy...	12.591	5.6	ppbv	676215	3	8.885	1217150	10.0
Undecane	12.831	4.7	ppbv	573659	3	8.885	1217150	10.0
1-Phenyl-1-butene	13.232	3.9	ppbv	470558	3	8.885	1217150	10.0
Naphthalene, 1,...	13.336	4.5	ppbv	542668	3	8.885	1217150	10.0
Dodecane	13.730	3.7	ppbv	449619	3	8.885	1217150	10.0
Naphthalene, 1,...	14.239	3.4	ppbv	419237	3	8.885	1217150	10.0

CALIBRATION SUMMARY

Response Factor Report MSVOA_L

Method Path : Z:\voasrv\HPCHEM1\MSVOA_L\methods\
Method File : VL041725AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
Last Update : Fri Apr 18 02:14:00 2025
Response Via : Initial Calibration

Calibration Files
0.03=VL042354.D 0.1 =VL042353.D 0.5 =VL042352.D 1 =VL042351.D 2 =VL042350.D 10 =VL042349.D 15 =VL042355.D

		Compound	0.03	0.1	0.5	1	2	10	15	Avg	%RSD
1)	I	Bromochloromethane	----------ISTD----------								
2)	T	Dichlorodifluo...			1.831	1.837	1.827	1.658	1.682	1.767	5.05
3)		Chlorodifluoro...			1.876	1.657	1.698	1.573	1.608	1.682	7.01
4)		Chloromethane			0.752	0.725	0.701	0.652	0.665	0.699	5.93
5)	T	Vinyl Chloride	1.002	0.911	0.731	0.709	0.689	0.638	0.647	0.761	18.39
6)	T	Bromomethane			0.397	0.330	0.300	0.304	0.303	0.327	12.56
7)		Chloroethane			0.303	0.287	0.280	0.253	0.255	0.275	7.76
8)	T	Dichlorotetraf...			1.556	1.550	1.581	1.432	1.465	1.517	4.25
9)	T	Propene			0.880	0.797	0.758	0.690	0.707	0.766	9.95
10)	T	Heptane			2.444	2.296	2.209	1.884	1.931	2.153	11.14
11)	T	Trichlorofluor...			1.684	1.806	1.746	1.567	1.597	1.680	5.95
12)	T	1,1,2-Trichlor...			1.389	1.439	1.437	1.281	1.323	1.374	5.11
13)		Ethanol			0.275	0.139	0.123	0.035	0.036	0.122	80.54
14)	T	Bromoethene			0.537	0.545	0.530	0.490	0.487	0.518	5.24
15)	T	Acetone			1.968	1.895	1.743	1.263	1.316	1.637	20.03
16)	T	1,3-Butadiene			1.015	0.836	0.735	0.651	0.678	0.783	18.90
17)		tert-Butyl alc...			2.263	2.132	2.103	1.804	1.841	2.029	9.76
18)	T	1,1-Dichloroet...			0.735	0.635	0.637	0.583	0.618	0.642	8.79
19)	T	Isopropyl Alcohol			1.050	0.980	0.897	0.821	0.798	0.909	11.66
20)	T	Methylene Chlo...			0.875	0.728	0.582	0.498	0.523	0.641	24.71
21)	T	Allyl Chloride			1.276	1.213	1.110	0.973	1.080	1.130	10.44
22)	T	trans-1,2-Dich...			0.814	0.759	0.736	0.664	0.681	0.731	8.32
23)	T	Vinyl Acetate			0.656	0.744	0.749	0.555	0.610	0.663	12.72
24)	T	1,1-Dichloroet...			1.452	1.469	1.383	1.284	1.352	1.388	5.43
25)	T	Ethyl Acetate			4.428	4.147	4.118	3.677	3.812	4.036	7.34
26)	T	Hexane			1.899	1.719	1.625	1.424	1.499	1.633	11.45
27)	T	Carbon Disulfide			1.903	1.670	1.785	1.668	1.718	1.749	5.63
28)	T	Methyl tert-Bu...			1.134	1.141	1.132	0.940	1.004	1.070	8.64
29)	T	Chloroform			2.458	2.333	2.392	2.145	2.215	2.309	5.54
30)	T	Cyclohexane			1.422	1.333	1.347	1.252	1.249	1.320	5.50
31)	T	cis-1,2-Dichlo...			1.588	1.603	1.593	1.459	1.522	1.553	3.95
32)	T	1,1,1-Trichlor...	3.110	2.840	2.557	2.549	2.493	2.274	2.369	2.599	11.03
33)	I	1,4-Difluorobenzene	----------ISTD----------								
34)	T	2-Butanone			0.886	0.826	0.818	0.687	0.737	0.791	9.94
35)	T	Carbon Tetrach...	1.319	0.914	0.832	0.830	0.847	0.770	0.823	0.905	20.70
36)	T	Benzene			1.146	1.075	1.121	1.002	1.048	1.079	5.31
37)	T	1,2-Dichloroet...			0.691	0.647	0.666	0.592	0.641	0.647	5.63
38)	T	Trichloroethene	0.643	0.505	0.443	0.448	0.447	0.395	0.419	0.471	17.59
39)	T	1,2-Dichloropr...			0.441	0.413	0.405	0.370	0.381	0.402	6.97

Method Path : Z:\voasrv\HPCHEM1\MSVOA_L\methods\
Method File : VL041725AIR.M

40)	T	1,4-Dioxane		0.263	0.243	0.232	0.182	0.185	0.221	16.27
41)	T	Tetrahydrofuran		0.518	0.480	0.468	0.409	0.432	0.461	9.20
42)	T	Bromodichlorom...		0.943	0.909	0.912	0.852	0.889	0.901	3.71
43)		Methyl Methacr...		0.545	0.520	0.495	0.430	0.441	0.486	10.21
44)	T	2,2,4-Trimethy...		1.935	1.916	1.962	1.708	1.794	1.863	5.79
45)	T	t-1,3-Dichloro...		0.514	0.510	0.509	0.459	0.491	0.497	4.60
46)	T	cis-1,3-Dichlo...		0.613	0.617	0.637	0.570	0.603	0.608	4.05
47)	T	1,1,2-Trichlor...		0.423	0.429	0.420	0.376	0.399	0.410	5.32
48)	T	Dibromochlorom...		0.743	0.721	0.746	0.679	0.729	0.723	3.70
49)	T	Bromoform		0.622	0.623	0.675	0.616	0.627	0.633	3.82
50)	T	4-Methyl-2-Pen...		1.541	1.382	1.435	1.082	1.132	1.314	15.12
51)	T	2-Hexanone		1.341	1.311	1.411	0.893	0.938	1.179	20.69
52)	T	Tetrachloroethene	0.543	0.452	0.420	0.393	0.391	0.357	0.363	0.417	15.46
53)	T	Toluene		1.371	1.295	1.370	1.193	1.244	1.294	6.03
54)	T	1,2-Dibromoethane	0.621	0.582	0.605	0.606	0.539	0.562	0.586	5.27
55)	I	Chlorobenzene-d5	----------ISTD----------							
56)		1,1,1,2-Tetrac...		0.621	0.640	0.635	0.550	0.581	0.605	6.37
57)	T	Chlorobenzene		1.129	1.067	1.068	0.956	0.981	1.040	6.79
58)	T	Ethyl Benzene		2.029	2.088	2.068	1.832	1.890	1.981	5.73
59)	T	m/p-Xylene		1.685	1.682	1.658	1.456	1.500	1.596	6.86
60)	T	o-Xylene		1.740	1.697	1.668	1.442	1.490	1.607	8.25
61)	T	Styrene		0.792	0.776	0.808	0.726	0.734	0.767	4.68
62)		Isopropylbenzene		2.517	2.470	2.439	2.170	2.202	2.360	6.83
63)	T	1,1,2,2-Tetrac...	1.407	1.176	0.990	0.985	0.968	0.873	0.892	1.042	18.12
64)		n-propylbenzene		0.645	0.605	0.610	0.542	0.564	0.593	6.81
65)		tert-Butylbenzene		2.319	2.358	2.315	1.907	1.945	2.169	10.27
66)	T	Benzyl Chloride		0.241	0.239	0.258	0.246	0.208	0.238	7.84
67)		sec-Butylbenzene		3.242	3.219	3.253	2.662	2.709	3.017	10.05
68)	S	1-Bromo-4-Fluo...	0.819	0.814	0.824	0.818	0.822	0.831	0.825	0.822	0.69
69)		p-Isopropyltol...		2.834	2.818	2.811	2.304	2.338	2.621	10.46
70)		n-Butylbenzene		2.985	2.926	2.953	2.370	2.414	2.730	11.33
71)		2-Chlorotoluene		1.972	1.924	1.920	1.695	1.744	1.851	6.65
72)	T	4-Ethyltoluene		2.055	2.118	2.054	1.765	1.833	1.965	7.92
73)	T	1,3,5-Trimethy...		1.894	1.851	1.841	1.517	1.570	1.735	10.19
74)	T	1,2,4-Trimethy...		2.348	2.245	2.168	1.671	1.698	2.026	15.71
75)	T	1,3-Dichlorobe...		1.119	1.121	1.119	0.948	0.960	1.053	8.64
76)	T	1,4-Dichlorobe...		1.138	1.115	1.122	0.944	0.974	1.059	8.69
77)	T	1,2-Dichlorobe...		1.085	1.093	1.114	0.904	0.924	1.024	9.88
78)	T	Hexachloro-1,3...		1.163	1.136	1.135	0.863	0.874	1.034	14.66
79)	T	Naphthalene	2.433	2.395	2.756	2.909	2.004	2.040	2.423	15.11
80)	T	Naphthalene,2-...		1.311	1.534	1.777	1.115	1.168	1.381	19.88
81)	T	1,2,4-Trichlor...		1.026	1.117	1.224	0.905	0.929	1.040	12.75

(#) = Out of Range

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042349.D
Acq On : 17 Apr 2025 09:44
Operator : SY/MD
Sample : VSTDICCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 18 01:25:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Fri Apr 18 01:24:29 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.787	49	125455	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	366544	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.882	117	338126	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	281013	10.114	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 101.100%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	207962	9.382	ppbv	100
3) Chlorodifluoromethane	1.476	51	197334	9.350	ppbv	100
4) Chloromethane	1.531	50	81843	9.330	ppbv	100
5) Vinyl Chloride	1.580	62	80068	8.385	ppbv	100
6) Bromomethane	1.667	94	38128	9.219	ppbv	100
7) Chloroethane	1.703	64	31705	9.182	ppbv	100
8) Dichlorotetrafluoroethane	1.554	85	179696	9.442	ppbv	100
9) Propene	1.483	41	86530	9.002	ppbv	100
10) Heptane	4.978	43	236341	9.138	ppbv	100
11) Trichlorofluoromethane	1.877	101	196596	9.327	ppbv	100
12) 1,1,2-Trichlorotrifluo...	2.136	101	160682	9.323	ppbv	100
13) Ethanol	1.719	45	4439	5.651	ppbv	100
14) Bromoethene	1.780	108	61493	9.466	ppbv	100
15) Acetone	1.835	43	158490	7.717	ppbv	100
16) 1,3-Butadiene	1.609	39	81688	8.470	ppbv	100
17) tert-Butyl alcohol	2.039	59	226280	8.891	ppbv	100
18) 1,1-Dichloroethene	2.033	96	73186	8.833	ppbv	100
19) Isopropyl Alcohol	1.884	45	103029	9.031	ppbv	100
20) Methylene Chloride	2.062	84	62414	7.760	ppbv	100
21) Allyl Chloride	2.094	41	122115	8.611	ppbv	100
22) trans-1,2-Dichloroethene	2.340	96	83278	9.084	ppbv	100
23) Vinyl Acetate	2.460	43	69649	8.378	ppbv	100
24) 1,1-Dichloroethane	2.408	63	161102	9.251	ppbv	100
25) Ethyl Acetate	2.836	43	461315	9.110	ppbv	100
26) Hexane	2.826	57	178691	8.720	ppbv	100
27) Carbon Disulfide	2.149	76	209297	9.539	ppbv	100
28) Methyl tert-Butyl Ether	2.441	73	117924	8.783	ppbv	100
29) Chloroform	2.848	83	269088	9.290	ppbv	100
30) Cyclohexane	3.855	84	157035	9.517	ppbv	100
31) cis-1,2-Dichloroethene	2.719	61	183082	9.397	ppbv	100
32) 1,1,1-Trichloroethane	3.366	97	285336	9.187	ppbv	100
34) 2-Butanone	2.557	43	251704	8.683	ppbv	100
35) Carbon Tetrachloride	3.761	117	282402	8.513	ppbv	100
36) Benzene	3.654	78	367355	9.292	ppbv	100
37) 1,2-Dichloroethane	3.217	62	216999	9.145	ppbv	100
38) Trichloroethene	4.548	130	144767	8.352	ppbv	100
39) 1,2-Dichloropropane	4.311	63	135605	9.197	ppbv	100
40) 1,4-Dioxane	4.580	88	66662	8.348	ppbv #	100
41) Tetrahydrofuran	3.052	42	149905	8.950	ppbv	100
42) Bromodichloromethane	4.489	83	312268	9.456	ppbv	100
43) Methyl Methacrylate	4.881	69	157501	8.876	ppbv	100
44) 2,2,4-Trimethylpentane	4.642	57	626085	9.157	ppbv	100
45) t-1,3-Dichloropropene	6.415	75	168223	9.233	ppbv	100

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042349.D
Acq On : 17 Apr 2025 09:44
Operator : SY/MD
Sample : VSTDICCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 18 01:25:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Fri Apr 18 01:24:29 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.600	75	208811	9.377	ppbv	100
47) 1,1,2-Trichloroethane	6.580	97	137898	9.181	ppbv	100
48) Dibromochloromethane	7.386	129	248954	9.388	ppbv	100
49) Bromoform	9.480	173	225706	9.734	ppbv	100
50) 4-Methyl-2-Pentanone	5.752	43	396548	8.215	ppbv	100
51) 2-Hexanone	7.435	43	327165	7.511	ppbv	100
52) Tetrachloroethene	8.225	164	130720	8.553	ppbv	100
53) Toluene	6.933	91	437258	9.216	ppbv	100
54) 1,2-Dibromoethane	7.652	107	197665	9.235	ppbv	100
56) 1,1,1,2-Tetrachloroethane	8.927	131	186041	9.091	ppbv	100
57) Chlorobenzene	8.920	112	323084	9.187	ppbv	100
58) Ethyl Benzene	9.354	91	619581	9.248	ppbv	100
59) m/p-Xylene	9.552	91	984458m	18.187	ppbv	
60) o-Xylene	9.963	91	487616	8.972	ppbv	100
61) Styrene	9.869	104	245487	9.464	ppbv	100
62) Isopropylbenzene	10.539	105	733788	9.197	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.963	83	295041	8.355	ppbv	100
64) n-propylbenzene	10.989	120	183390	9.144	ppbv	100
65) tert-Butylbenzene	11.532	119	644953	8.795	ppbv	100
66) Benzyl Chloride	11.617	91	83269	10.333	ppbv	100
67) sec-Butylbenzene	11.769	105	900074	8.824	ppbv	100
69) p-Isopropyltoluene	11.927	119	778987	8.790	ppbv	100
70) n-Butylbenzene	12.283	91	801364	8.682	ppbv	100
71) 2-Chlorotoluene	10.901	91	573039	9.157	ppbv	100
72) 4-Ethyltoluene	11.125	105	596757	8.982	ppbv	100
73) 1,3,5-Trimethylbenzene	11.205	105	512855	8.743	ppbv	100
74) 1,2,4-Trimethylbenzene	11.539	105	565064	8.248	ppbv	100
75) 1,3-Dichlorobenzene	11.607	146	320380	8.997	ppbv	100
76) 1,4-Dichlorobenzene	11.672	146	319089	8.915	ppbv	100
77) 1,2-Dichlorobenzene	11.947	146	305822	8.832	ppbv	100
78) Hexachloro-1,3-Butadiene	13.882	225	291833	8.346	ppbv	100
79) Naphthalene	13.513	128	677578	8.271	ppbv	100
80) Naphthalene,2-methyl-	14.458	142	376995	8.074	ppbv	100
81) 1,2,4-Trichlorobenzene	13.442	180	306119	8.702	ppbv	100

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

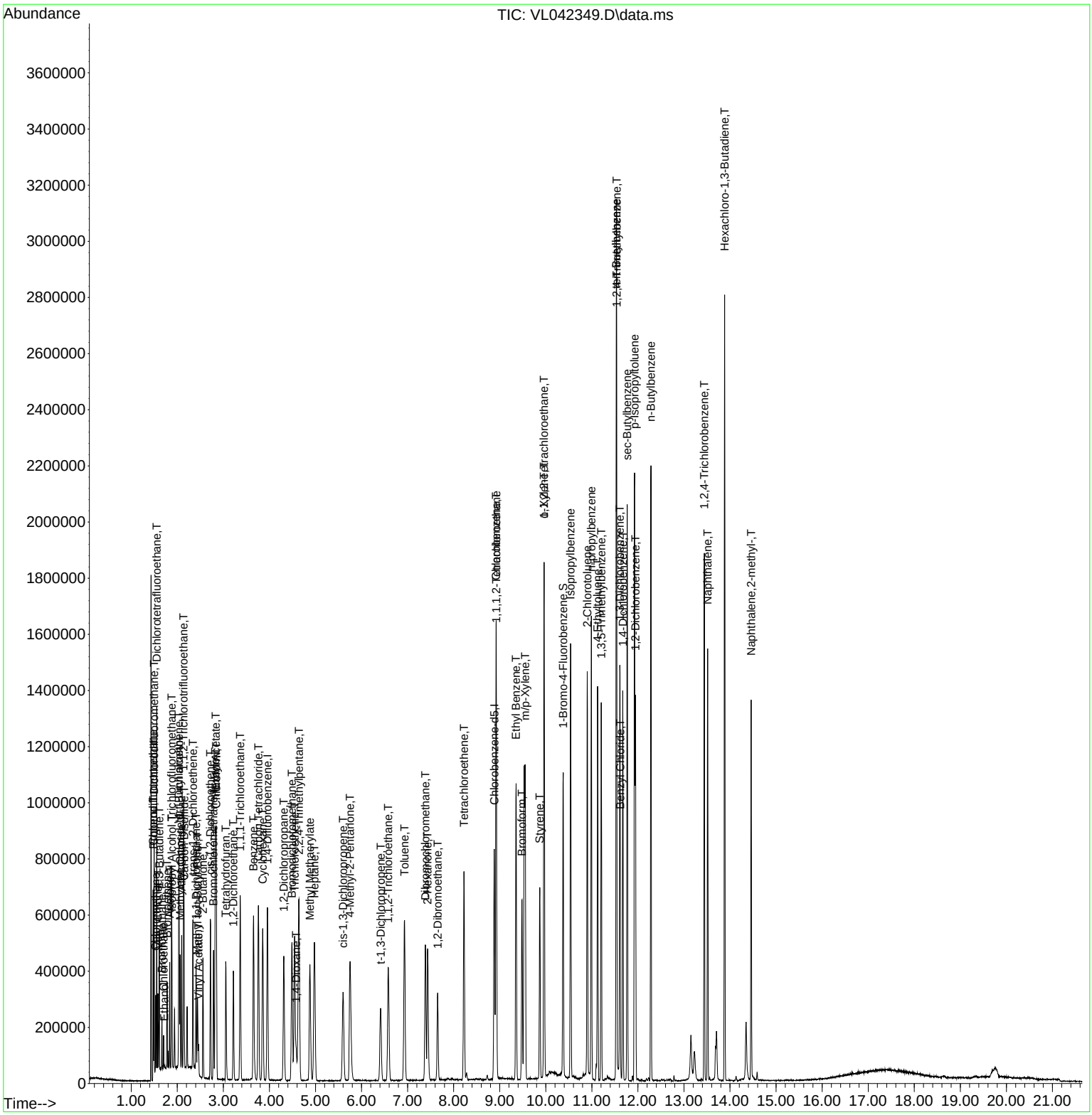
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042349.D
Acq On : 17 Apr 2025 09:44
Operator : SY/MD
Sample : VSTDICCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

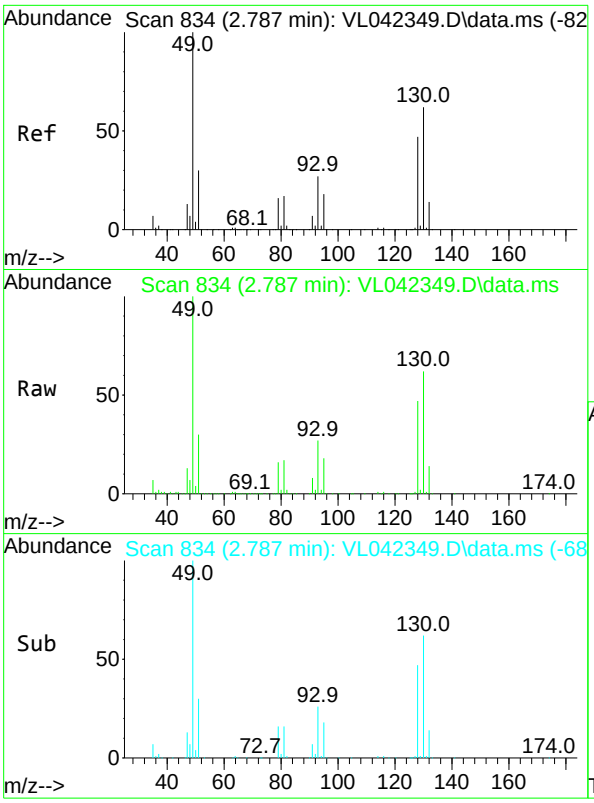
Quant Time: Apr 18 01:25:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Apr 18 01:24:29 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

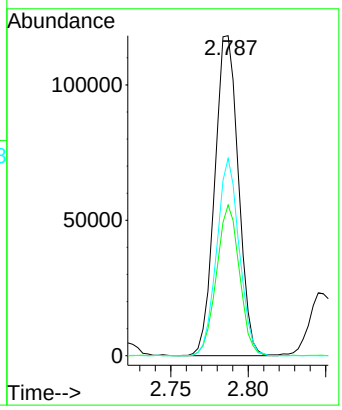




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 49 Resp: 12545

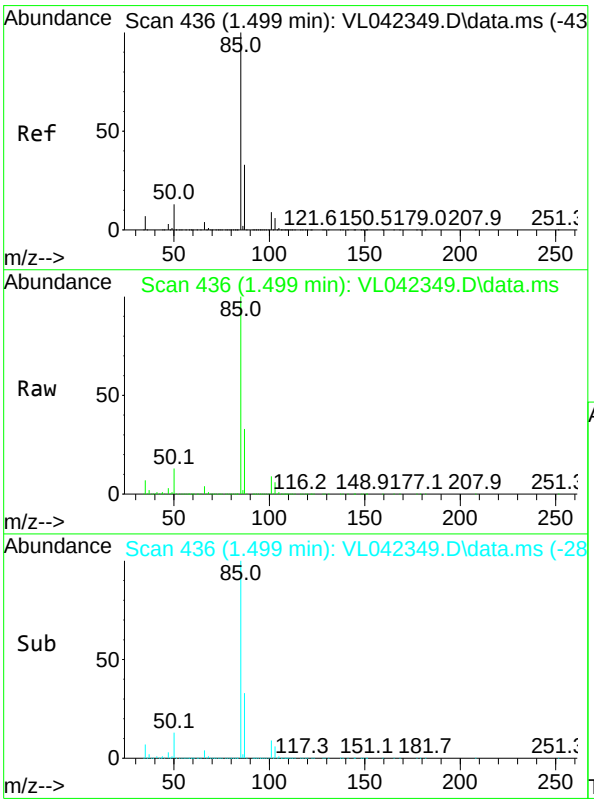
Ion	Ratio	Lower	Upper
49	100		
128	45.6	22.8	68.4
130	58.7	29.3	88.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

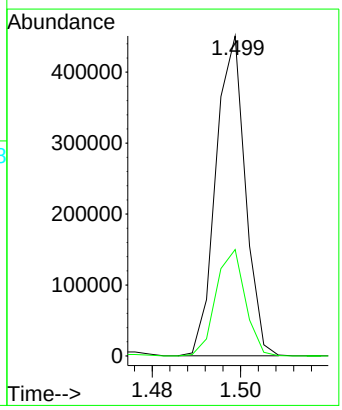
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

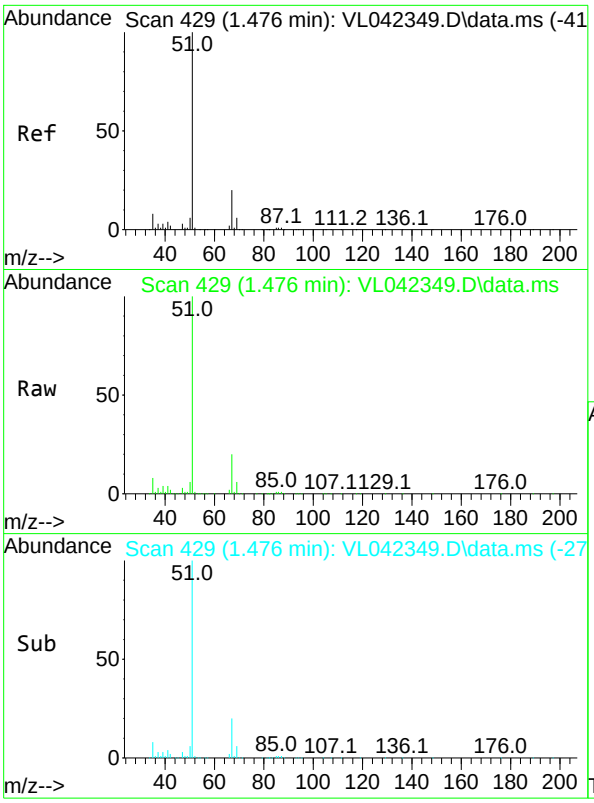


#2
Dichlorodifluoromethane
Concen: 9.382 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 85 Resp: 207962

Ion	Ratio	Lower	Upper
85	100		
87	33.2	26.6	39.8

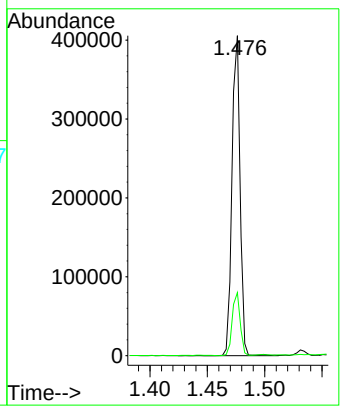




#3
Chlorodifluoromethane
Concen: 9.350 ppbv
RT: 1.476 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 51 Resp: 19733

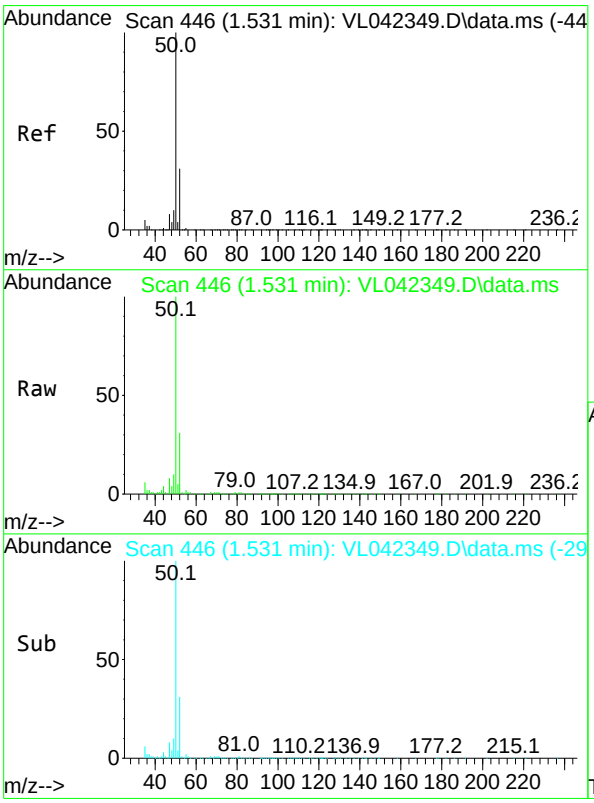
Ion	Ratio	Lower	Upper
51	100		
67	20.3	16.2	24.4



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

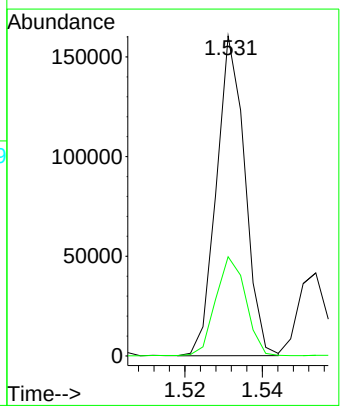
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

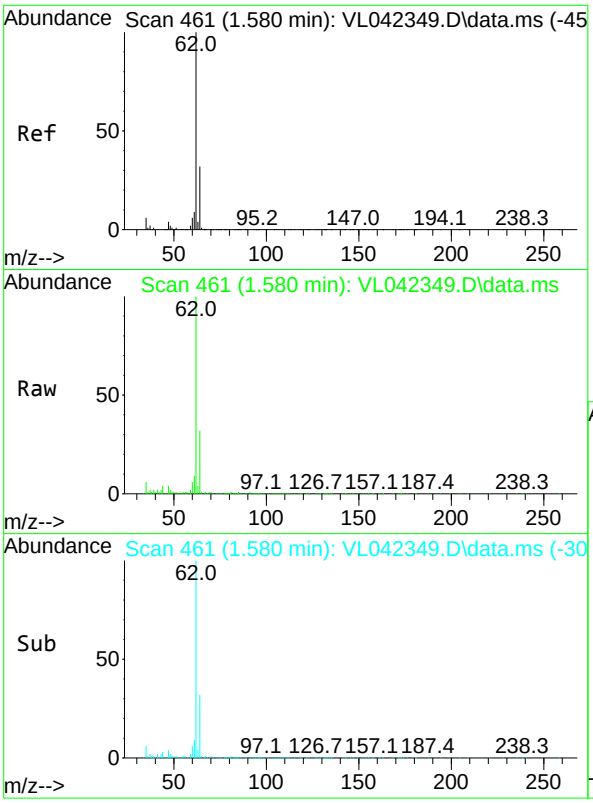


#4
Chloromethane
Concen: 9.330 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 50 Resp: 81843

Ion	Ratio	Lower	Upper
50	100		
52	30.9	24.7	37.1

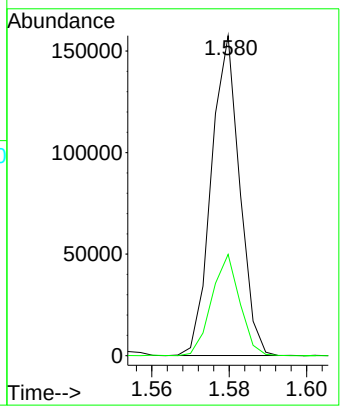




#5
Vinyl Chloride
Concen: 8.385 ppbv
RT: 1.580 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 62 Resp: 8006

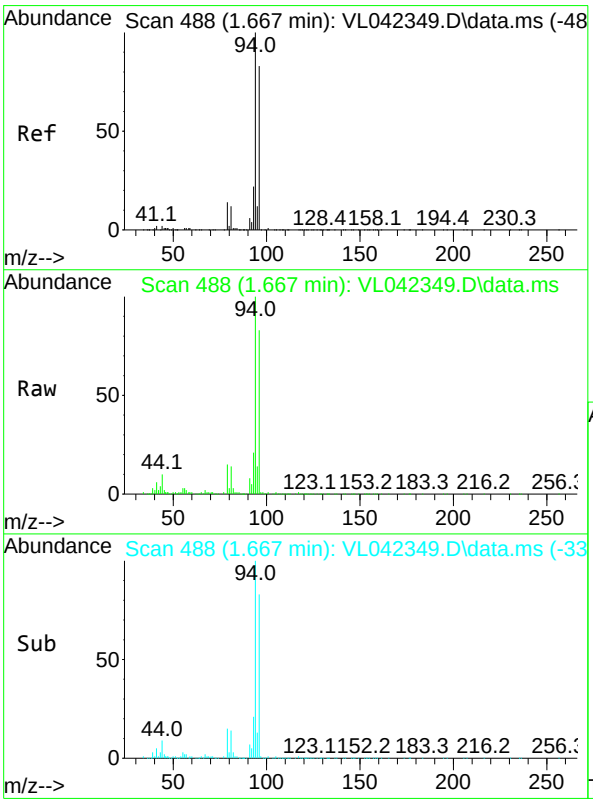
Ion	Ratio	Lower	Upper
62	100		
64	31.7	25.4	38.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

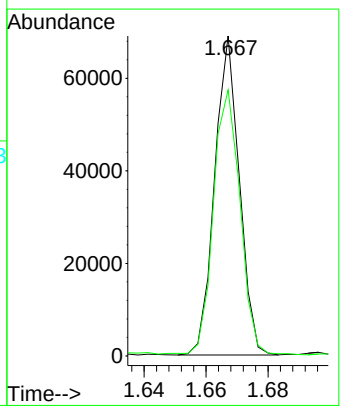
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

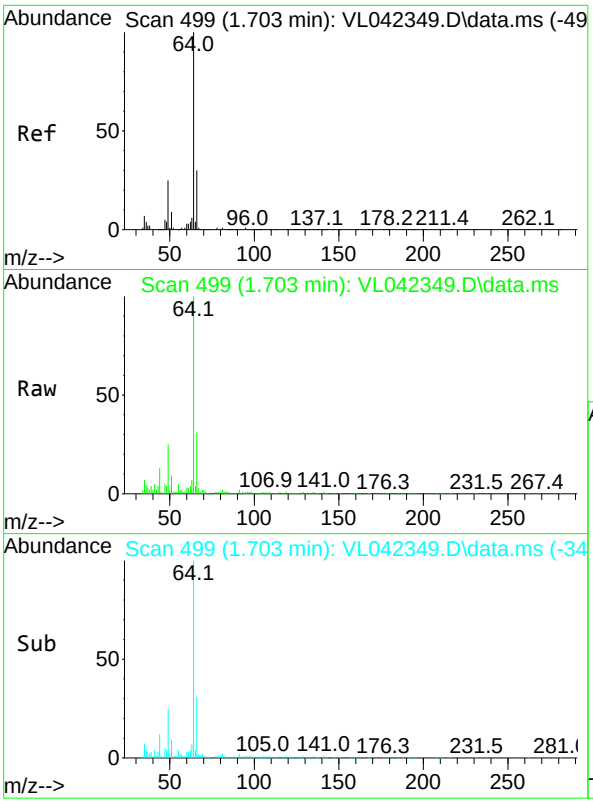


#6
Bromomethane
Concen: 9.219 ppbv
RT: 1.667 min Scan# 488
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 94 Resp: 38128

Ion	Ratio	Lower	Upper
94	100		
96	82.7	66.2	99.2

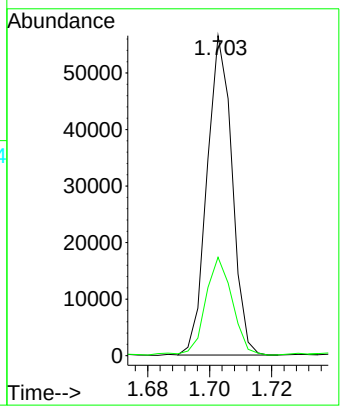




#7
Chloroethane
Concen: 9.182 ppbv
RT: 1.703 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 64 Resp: 3170

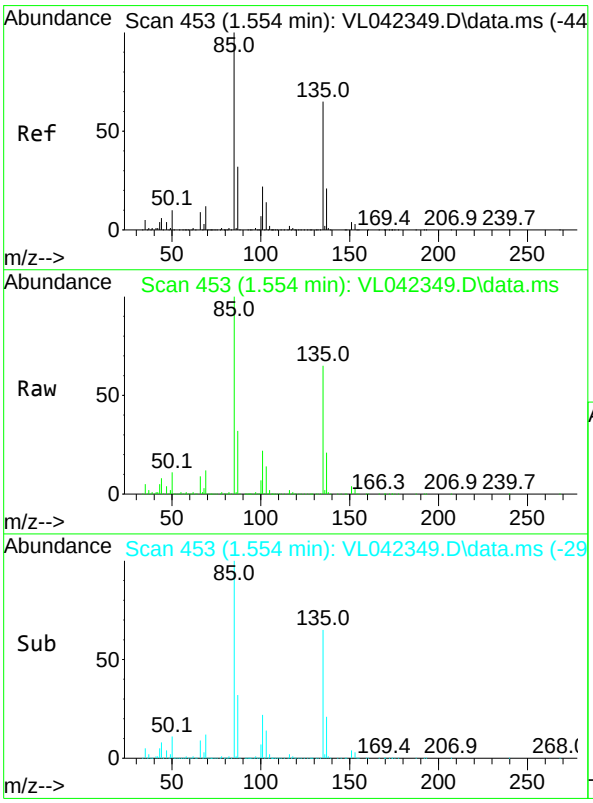
Ion	Ratio	Lower	Upper
64	100		
66	30.8	24.6	37.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

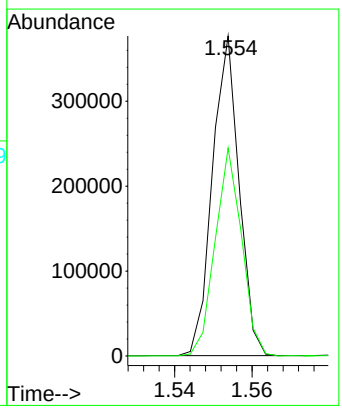
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

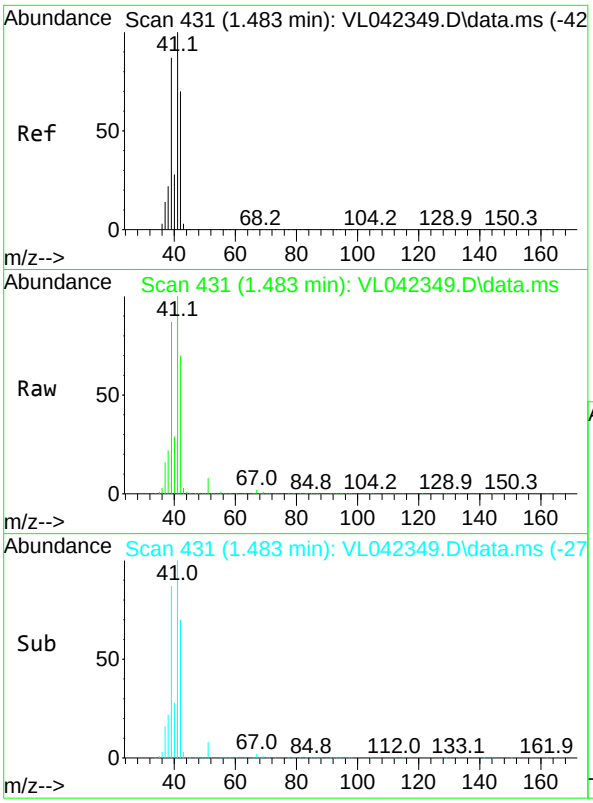


#8
Dichlorotetrafluoroethane
Concen: 9.442 ppbv
RT: 1.554 min Scan# 453
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 85 Resp: 179696

Ion	Ratio	Lower	Upper
85	100		
135	65.2	52.2	78.2

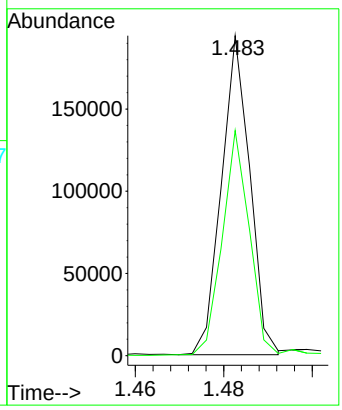




#9
Propene
Concen: 9.002 ppbv
RT: 1.483 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 41 Resp: 8653

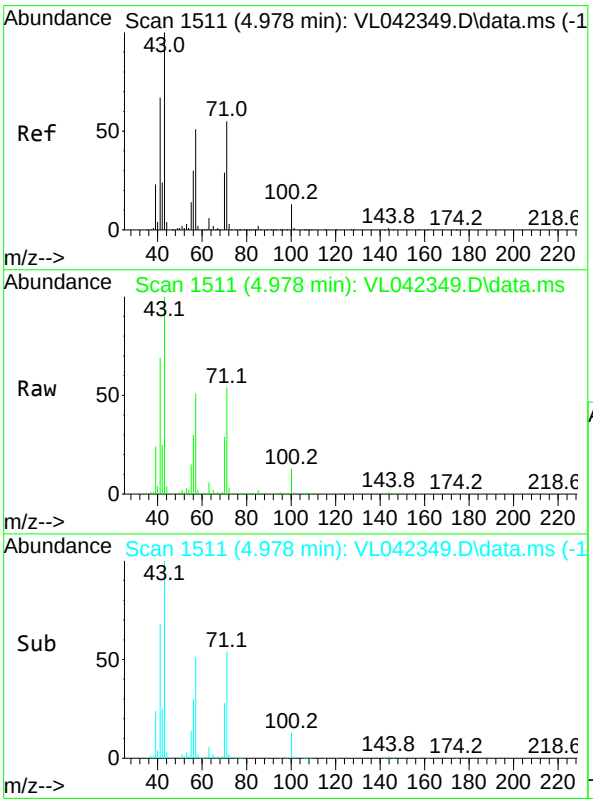
Ion	Ratio	Lower	Upper
41	100		
42	70.3	56.2	84.4



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

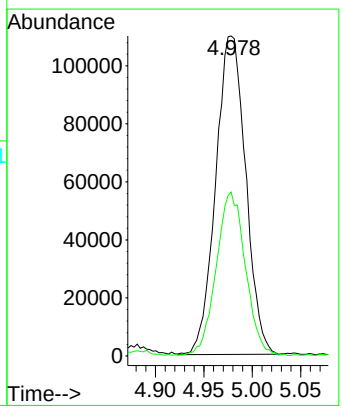
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

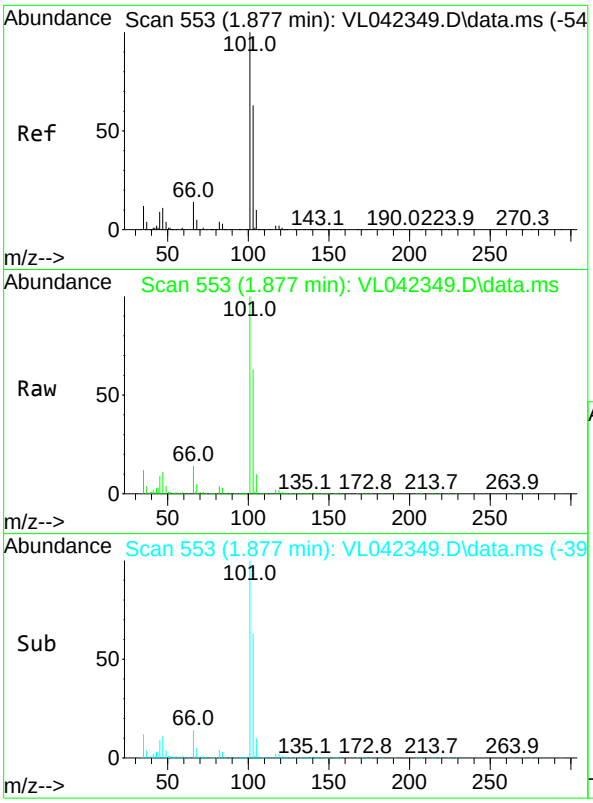


#10
Heptane
Concen: 9.138 ppbv
RT: 4.978 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 43 Resp: 236341

Ion	Ratio	Lower	Upper
43	100		
57	49.9	39.9	59.9

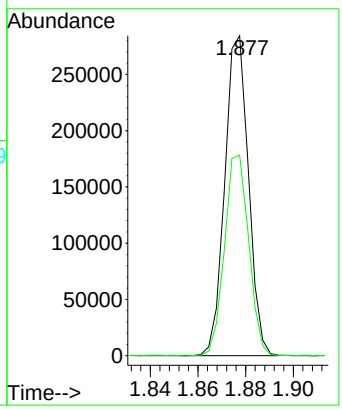




#11
Trichlorofluoromethane
Concen: 9.327 ppbv
RT: 1.877 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion:101 Resp: 19659

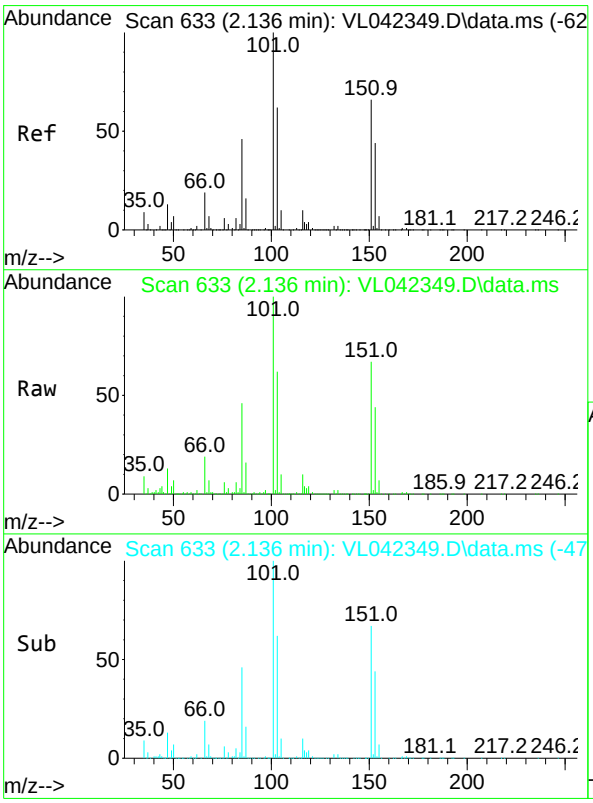
Ion	Ratio	Lower	Upper
101	100		
103	62.6	50.1	75.1



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

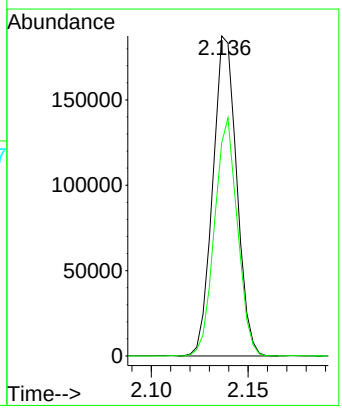
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

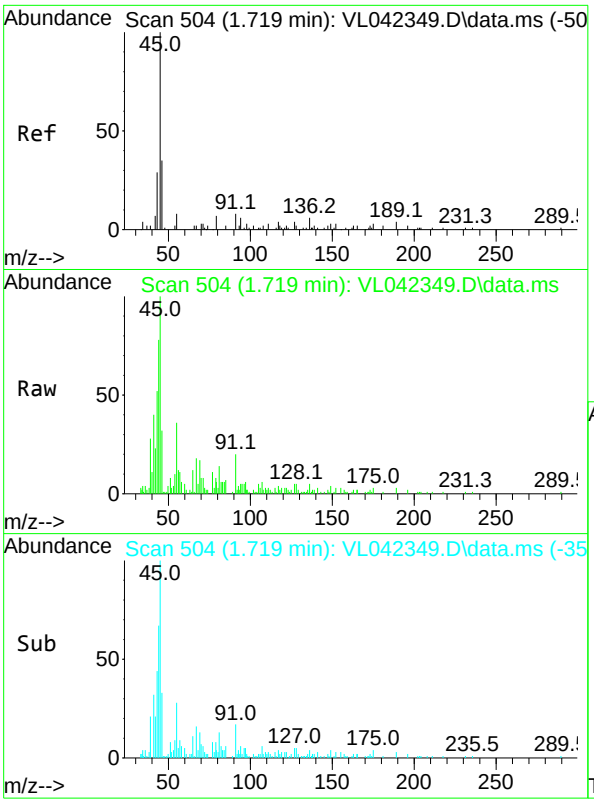


#12
1,1,2-Trichlorotrifluoroethane
Concen: 9.323 ppbv
RT: 2.136 min Scan# 633
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion:101 Resp: 160682

Ion	Ratio	Lower	Upper
101	100		
151	71.3	57.0	85.6

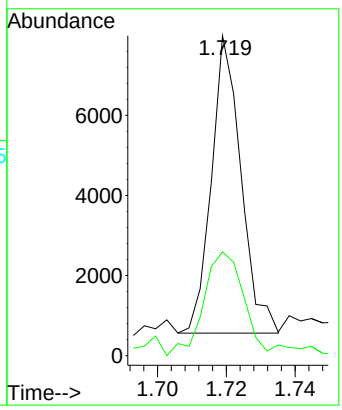




#13
Ethanol
Concen: 5.651 ppbv
RT: 1.719 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 45 Resp: 443

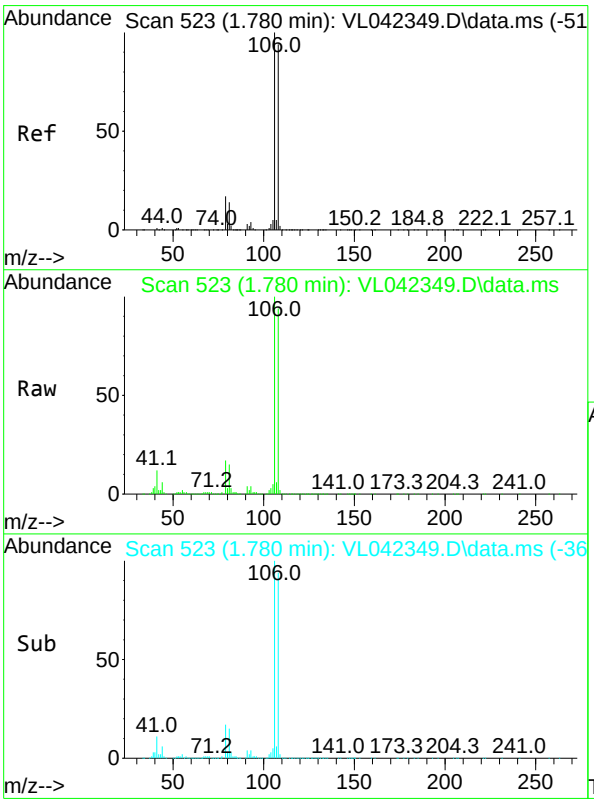
Ion	Ratio	Lower	Upper
45	100		
46	54.8	21.9	87.7



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

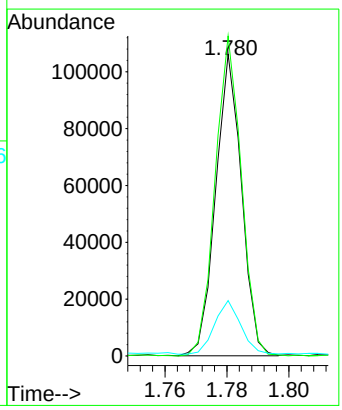
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

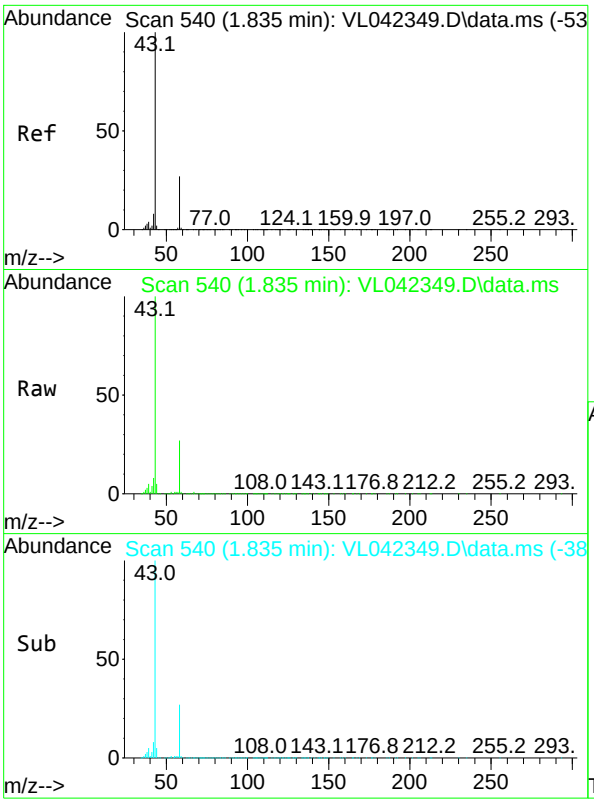


#14
Bromoethene
Concen: 9.466 ppbv
RT: 1.780 min Scan# 523
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion:108 Resp: 61493

Ion	Ratio	Lower	Upper
108	100		
106	107.4	85.9	128.9
79	17.4	13.9	20.9

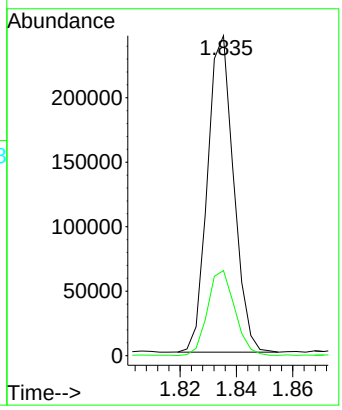




#15
Acetone
Concen: 7.717 ppbv
RT: 1.835 min Scan# 54
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 43 Resp: 15849

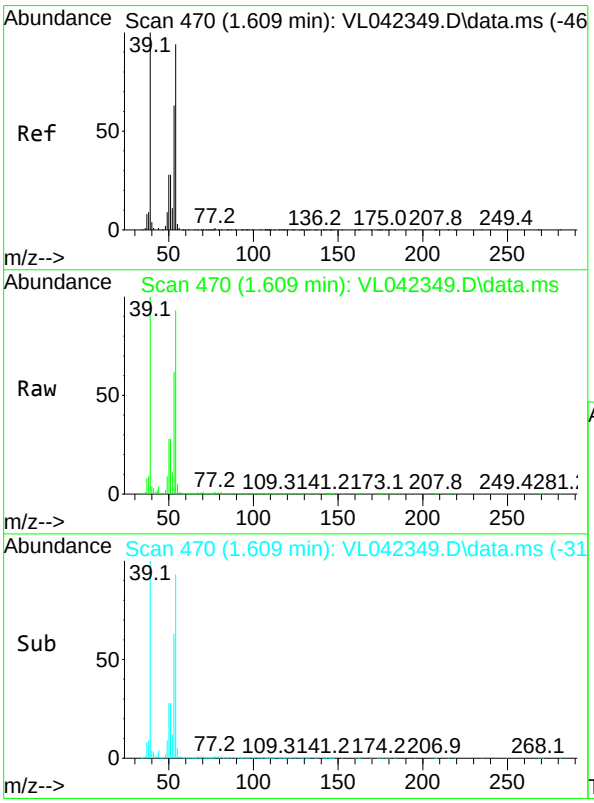
Ion	Ratio	Lower	Upper
43	100		
58	28.0	22.4	33.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

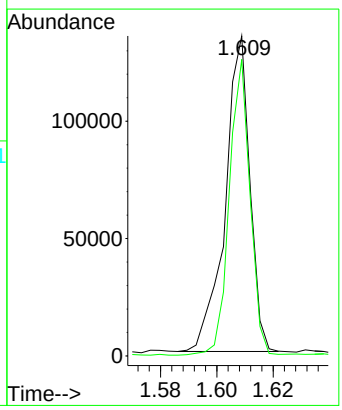
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

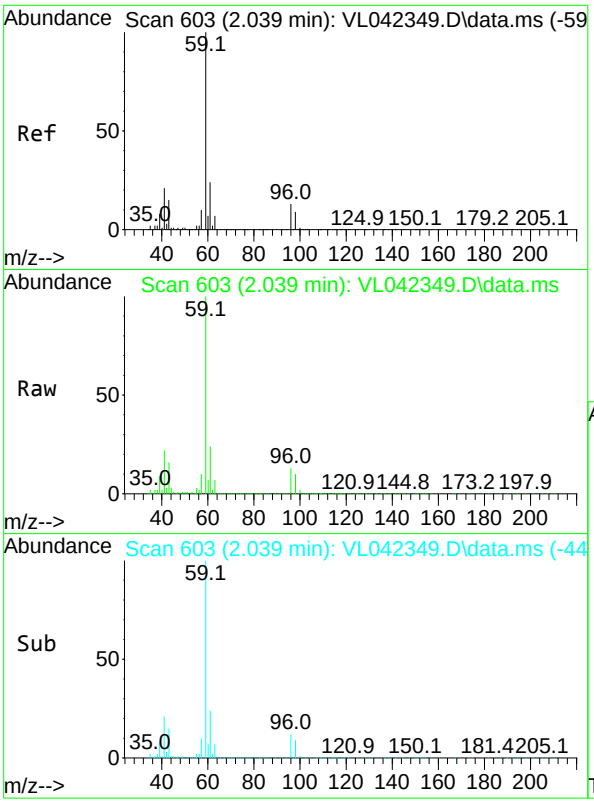


#16
1,3-Butadiene
Concen: 8.470 ppbv
RT: 1.609 min Scan# 470
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 39 Resp: 81688

Ion	Ratio	Lower	Upper
39	100		
54	81.1	64.9	97.3

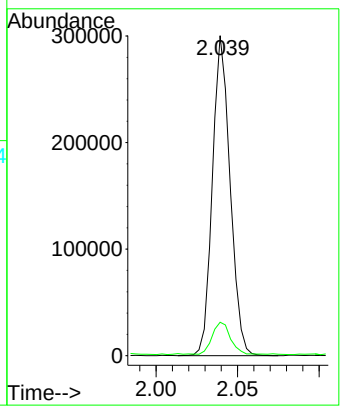




#17
tert-Butyl alcohol
Concen: 8.891 ppbv
RT: 2.039 min Scan# 6
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 59 Resp: 22628

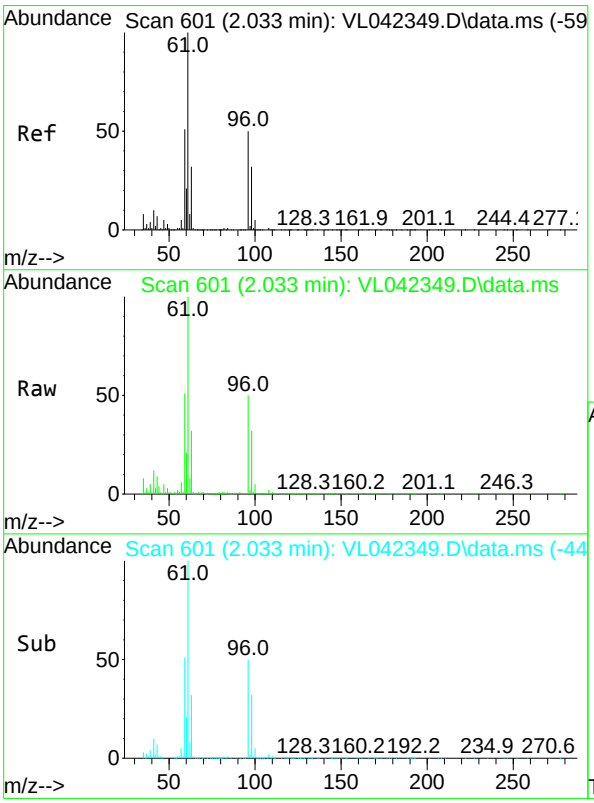
Ion	Ratio	Lower	Upper
59	100		
57	10.9	8.7	13.1



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

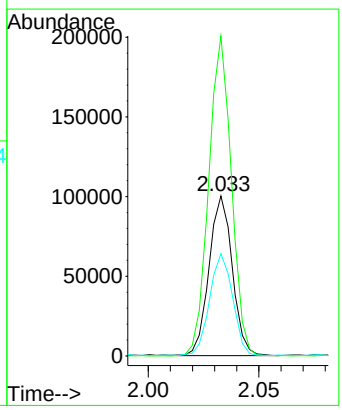
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

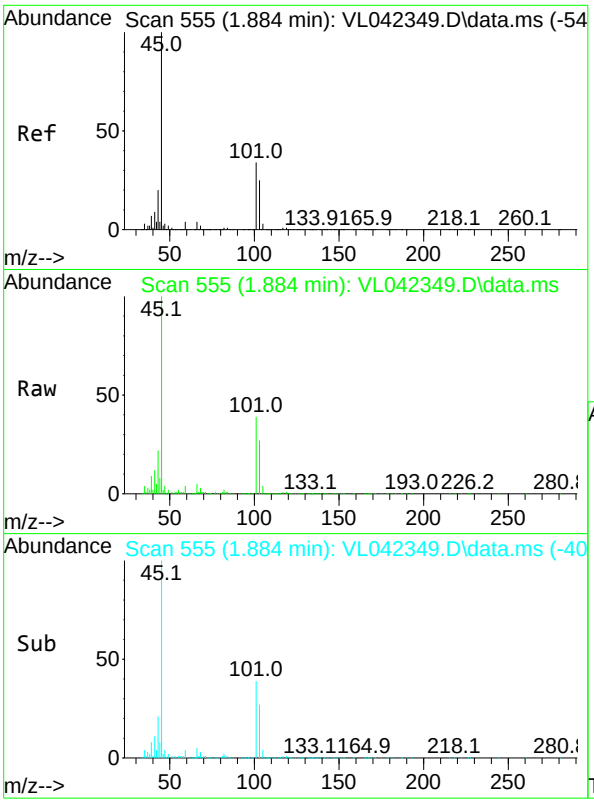


#18
1,1-Dichloroethene
Concen: 8.833 ppbv
RT: 2.033 min Scan# 601
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 96 Resp: 73186

Ion	Ratio	Lower	Upper
96	100		
61	200.2	160.2	240.2
98	63.7	51.0	76.4

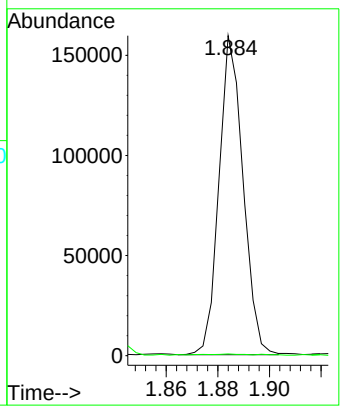




#19
Isopropyl Alcohol
Concen: 9.031 ppbv
RT: 1.884 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 45 Resp: 10302

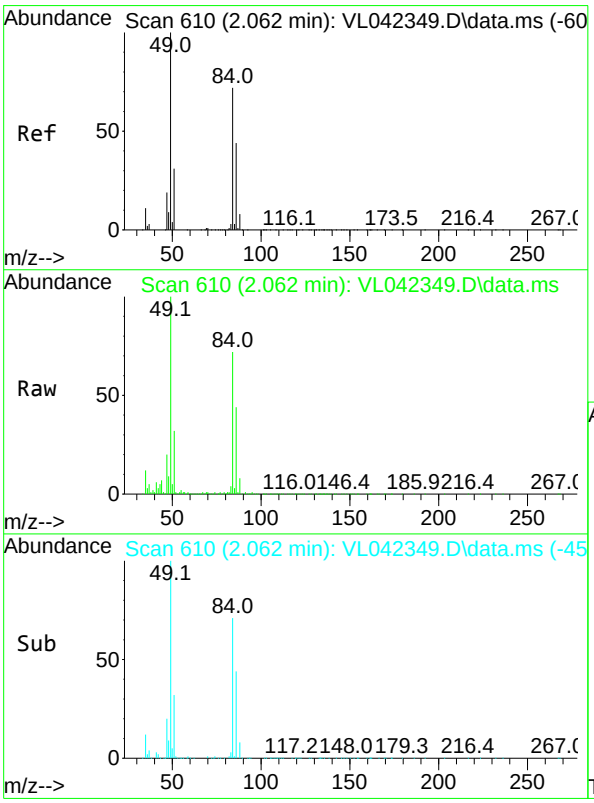
Ion	Ratio	Lower	Upper
45	100		
58	43.1	34.5	51.7



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

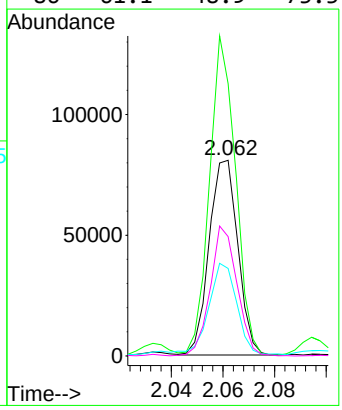
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

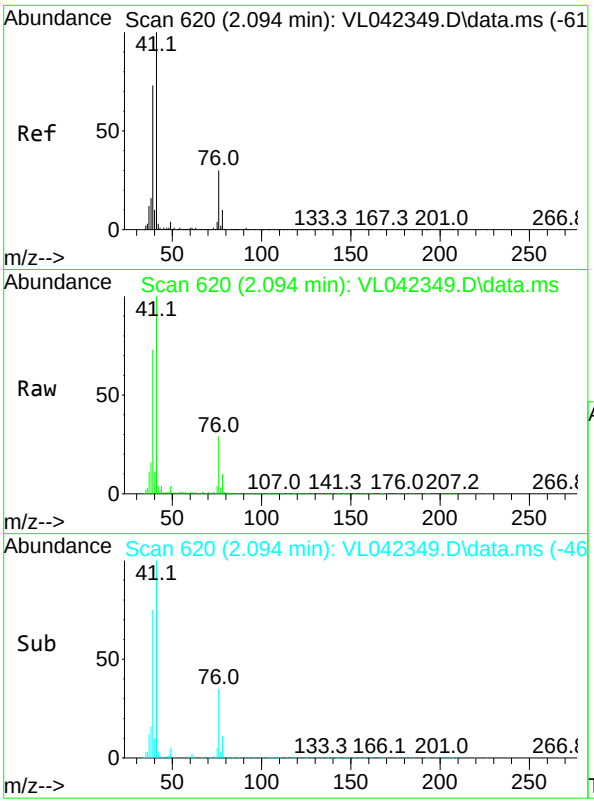


#20
Methylene Chloride
Concen: 7.760 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 84 Resp: 62414

Ion	Ratio	Lower	Upper
84	100		
49	139.5	111.6	167.4
51	43.9	35.1	52.7
86	61.1	48.9	73.3

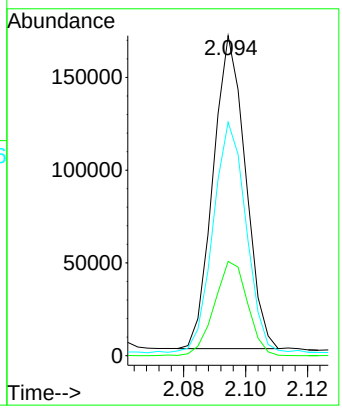




#21
Allyl Chloride
Concen: 8.611 ppbv
RT: 2.094 min Scan# 6
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 41 Resp: 12211

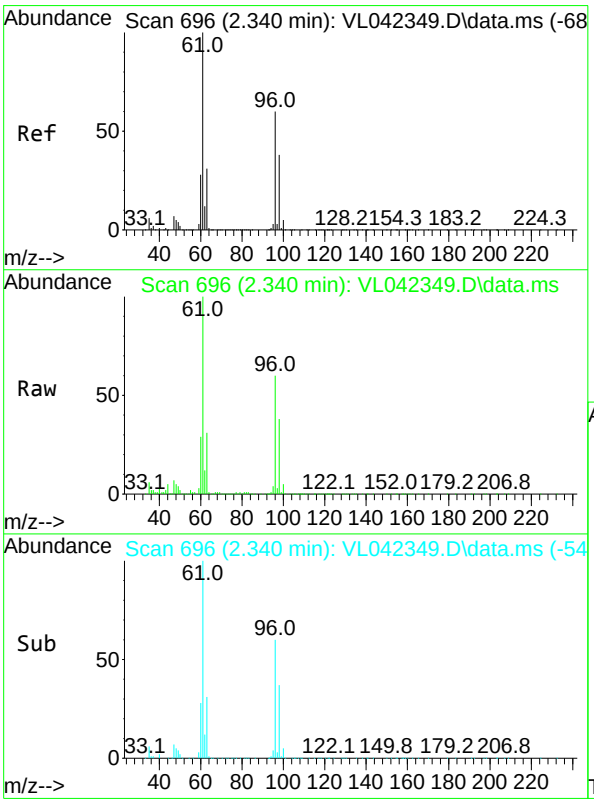
Ion	Ratio	Lower	Upper
41	100		
76	31.0	24.8	37.2
39	75.7	60.6	90.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

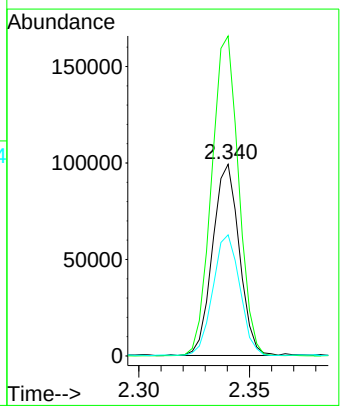
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

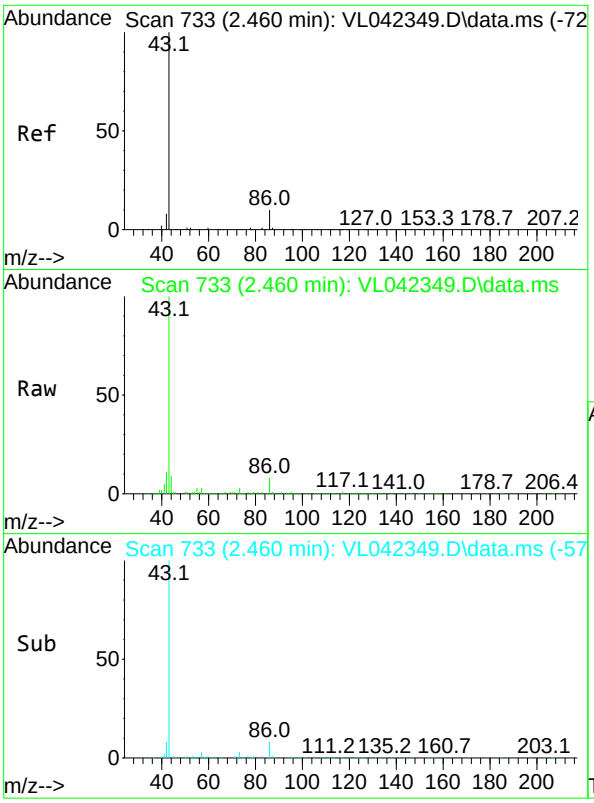


#22
trans-1,2-Dichloroethene
Concen: 9.084 ppbv
RT: 2.340 min Scan# 696
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 96 Resp: 83278

Ion	Ratio	Lower	Upper
96	100		
61	167.1	133.7	200.5
98	62.9	50.3	75.5

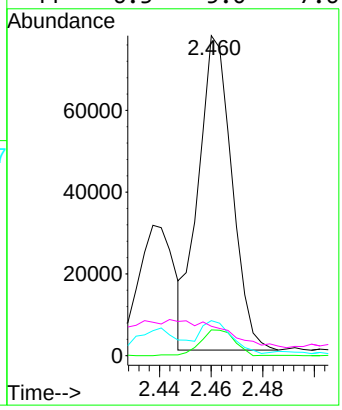




#23
Vinyl Acetate
Concen: 8.378 ppbv
RT: 2.460 min Scan# 7
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 43 Resp: 6964

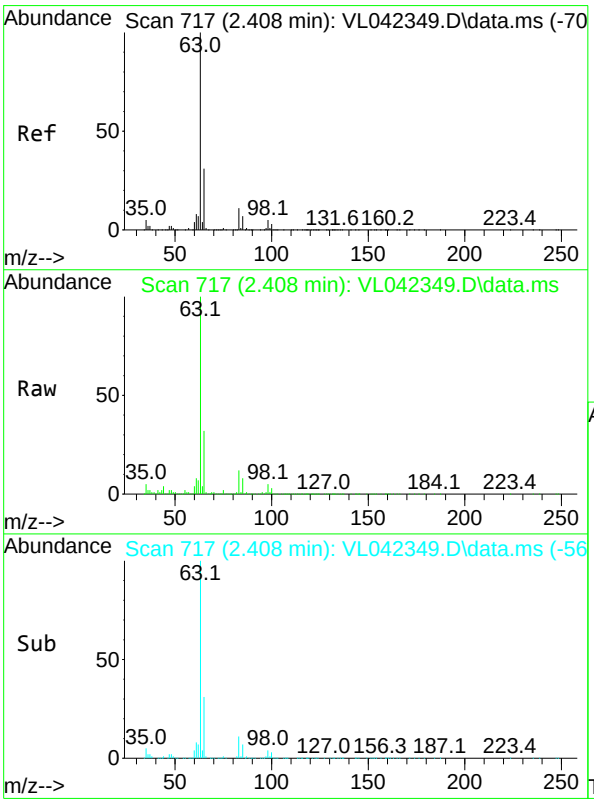
Ion	Ratio	Lower	Upper
43	100		
86	8.1	6.5	9.7
42	9.8	7.8	11.8
44	6.3	5.0	7.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

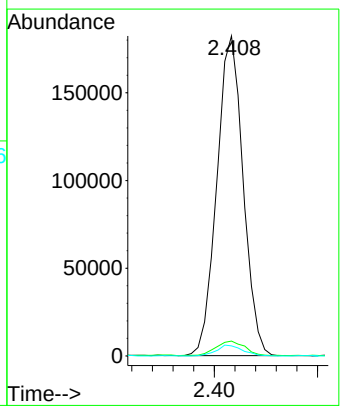
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

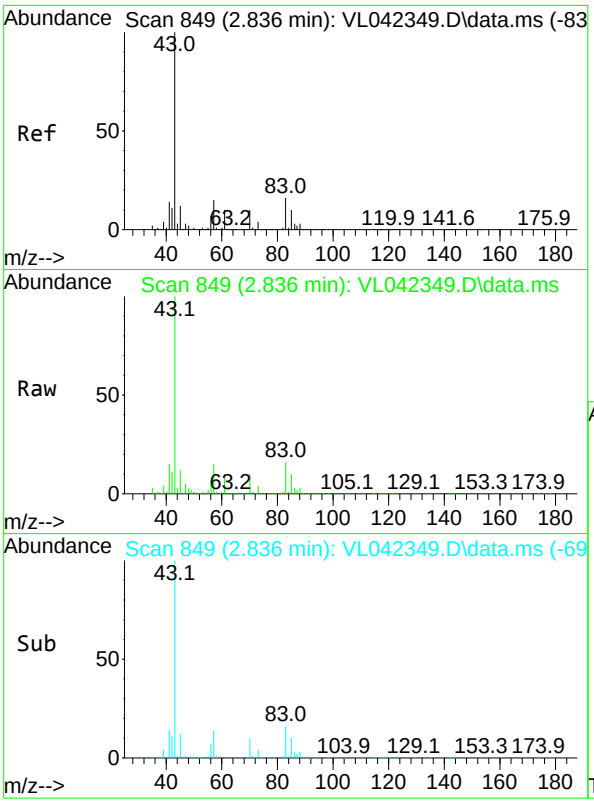


#24
1,1-Dichloroethane
Concen: 9.251 ppbv
RT: 2.408 min Scan# 717
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 63 Resp: 161102

Ion	Ratio	Lower	Upper
63	100		
98	4.5	2.3	6.8
100	3.2	1.6	4.8

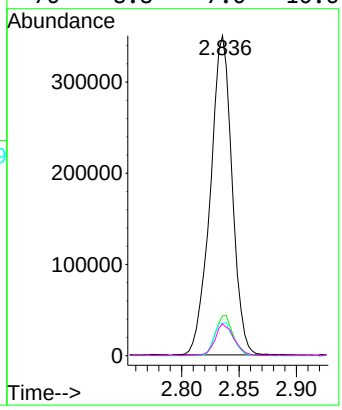




#25
Ethyl Acetate
Concen: 9.110 ppbv
RT: 2.836 min Scan# 84
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 43 Resp: 46131

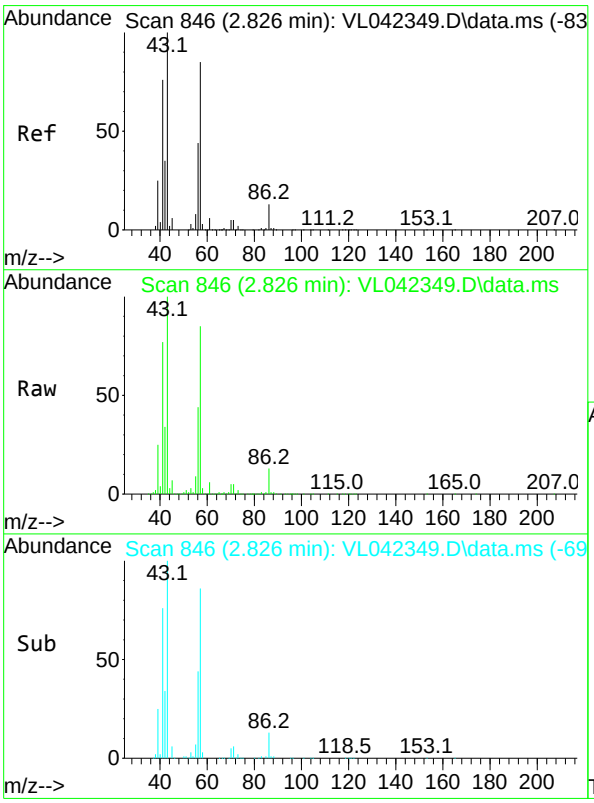
Ion	Ratio	Lower	Upper
43	100		
45	10.4	8.3	12.5
61	9.1	7.3	10.9
70	8.8	7.0	10.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

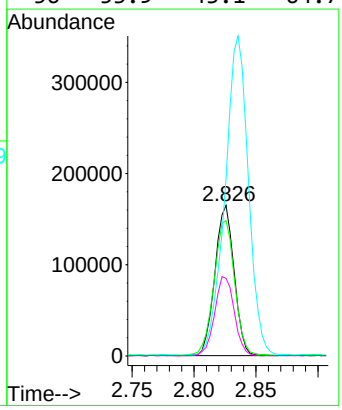
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

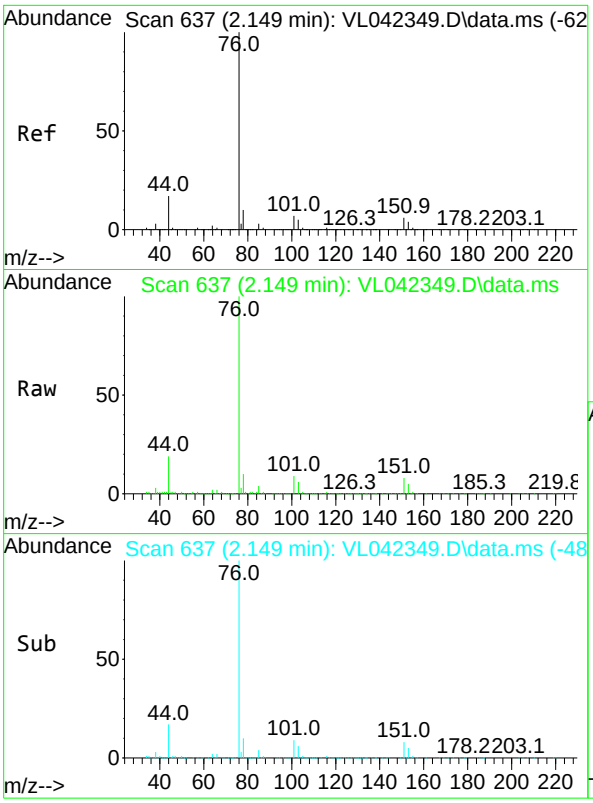


#26
Hexane
Concen: 8.720 ppbv
RT: 2.826 min Scan# 846
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 57 Resp: 178691

Ion	Ratio	Lower	Upper
57	100		
41	97.4	77.9	116.9
43	260.5	208.4	312.6
56	53.9	43.1	64.7

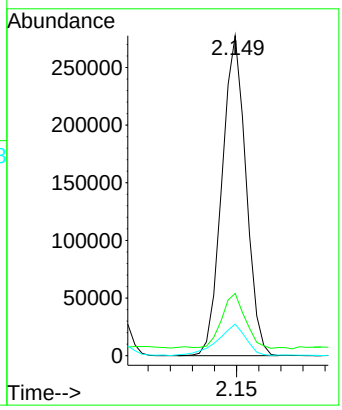




#27
Carbon Disulfide
Concen: 9.539 ppbv
RT: 2.149 min Scan# 6
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 76 Resp: 20929

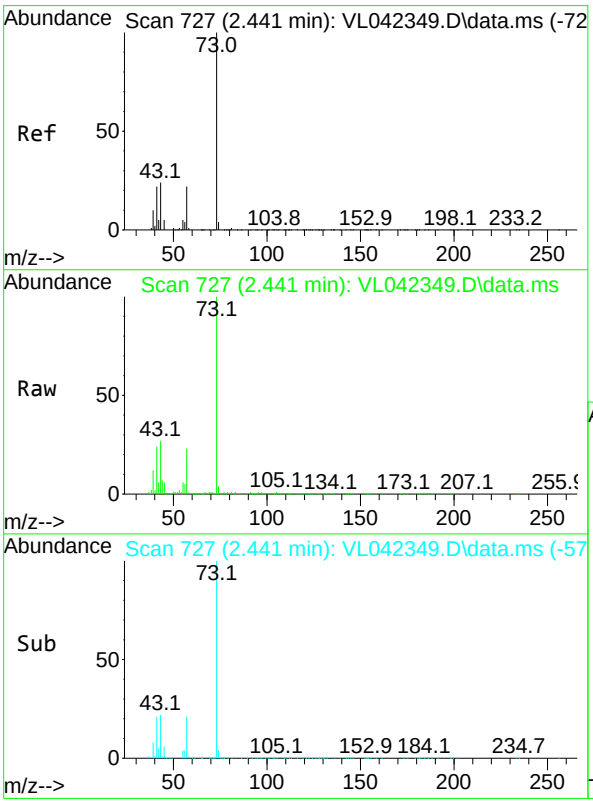
Ion	Ratio	Lower	Upper
76	100		
44	19.4	15.5	23.3
78	11.6	9.3	13.9



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

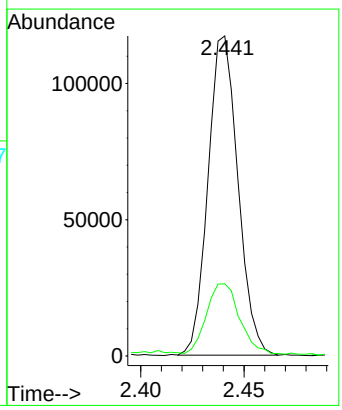
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

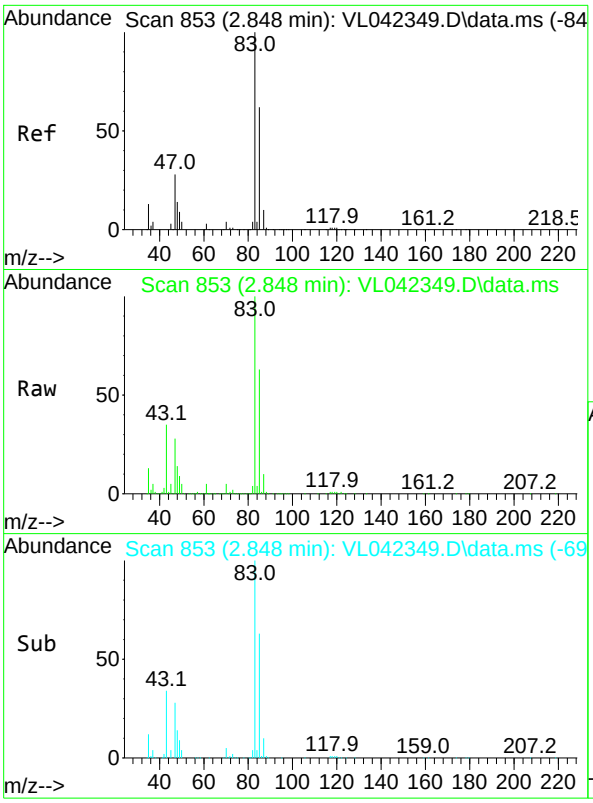


#28
Methyl tert-Butyl Ether
Concen: 8.783 ppbv
RT: 2.441 min Scan# 727
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 73 Resp: 117924

Ion	Ratio	Lower	Upper
73	100		
57	26.6	21.3	31.9

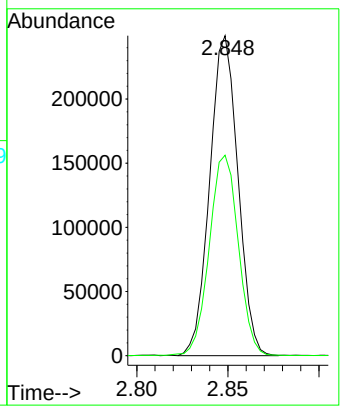




#29
Chloroform
Concen: 9.290 ppbv
RT: 2.848 min Scan# 8
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 83 Resp: 26908

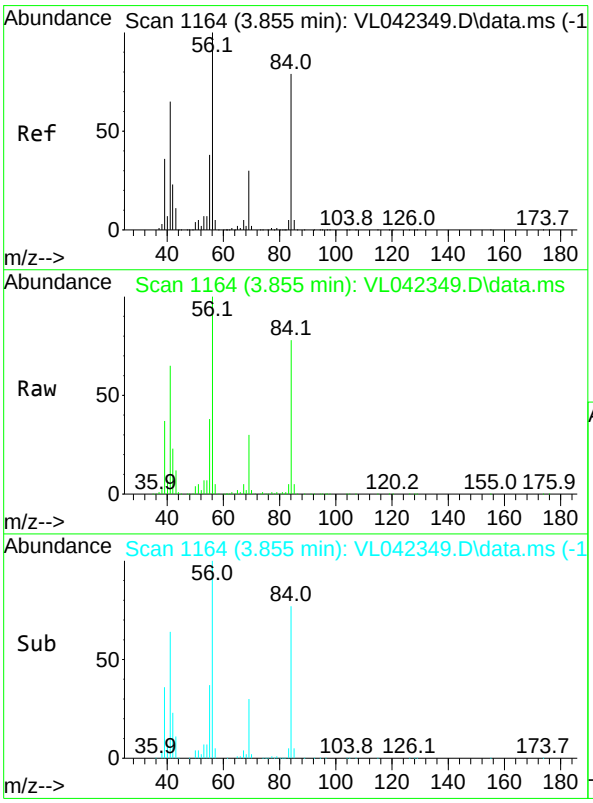
Ion	Ratio	Lower	Upper
83	100		
85	62.5	50.0	75.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

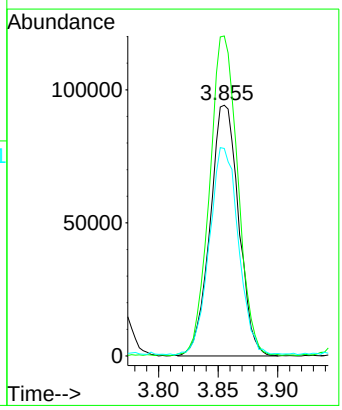
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

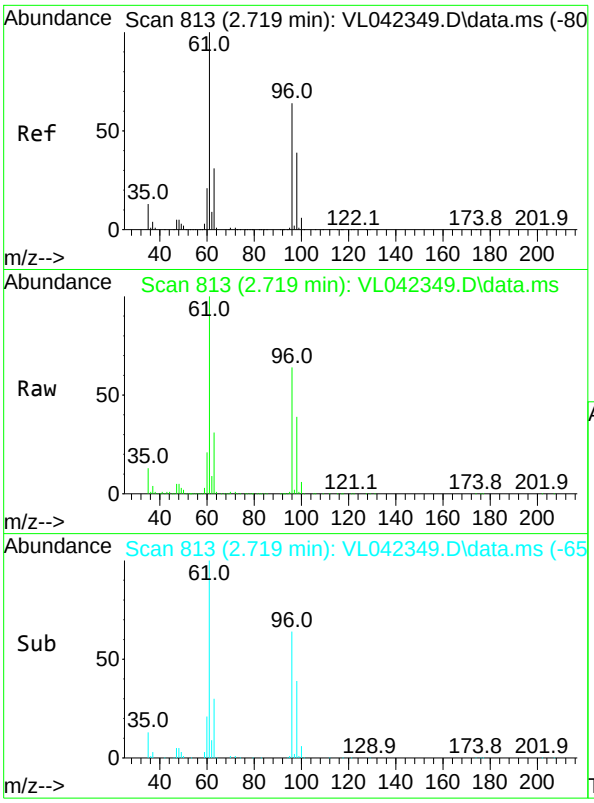


#30
Cyclohexane
Concen: 9.517 ppbv
RT: 3.855 min Scan# 1164
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 84 Resp: 157035

Ion	Ratio	Lower	Upper
84	100		
56	126.2	101.0	151.4
41	84.2	67.4	101.0

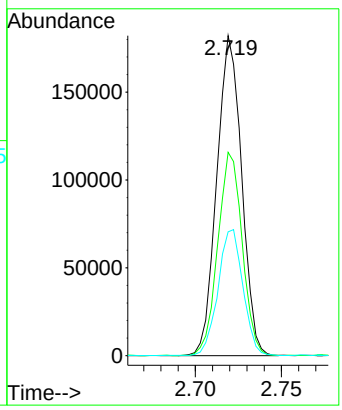




#31
cis-1,2-Dichloroethene
Concen: 9.397 ppbv
RT: 2.719 min Scan# 8
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 61 Resp: 18308

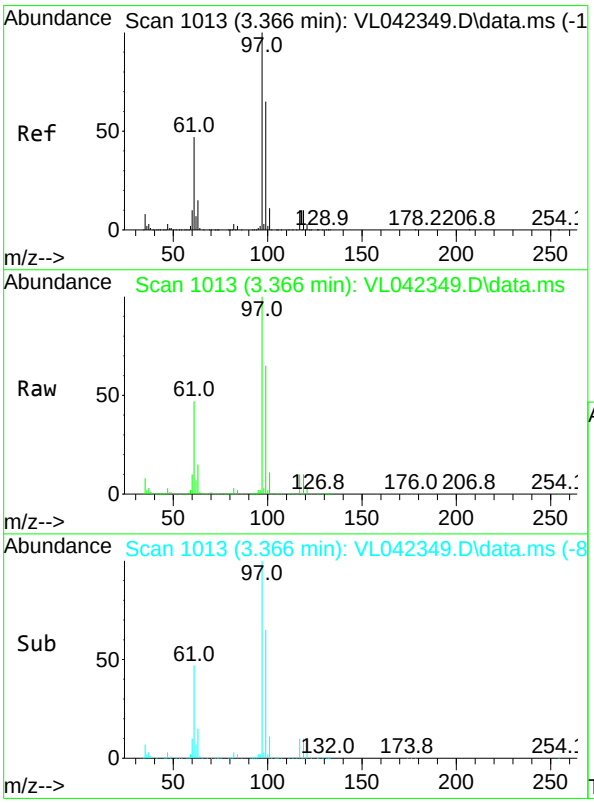
Ion	Ratio	Lower	Upper
61	100		
96	63.5	50.8	76.2
98	38.6	30.9	46.3



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

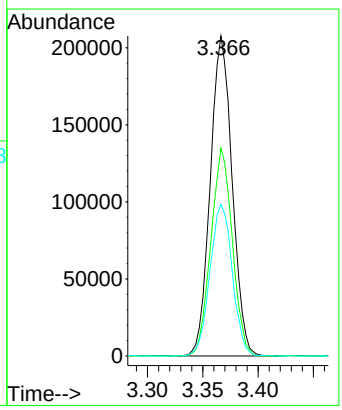
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

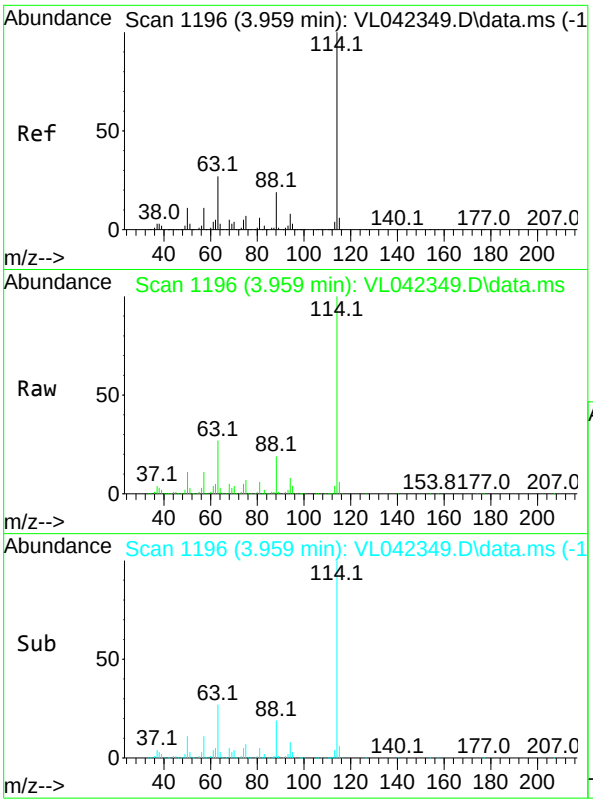


#32
1,1,1-Trichloroethane
Concen: 9.187 ppbv
RT: 3.366 min Scan# 1013
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 97 Resp: 285336

Ion	Ratio	Lower	Upper
97	100		
99	63.7	51.0	76.4
61	48.5	38.8	58.2

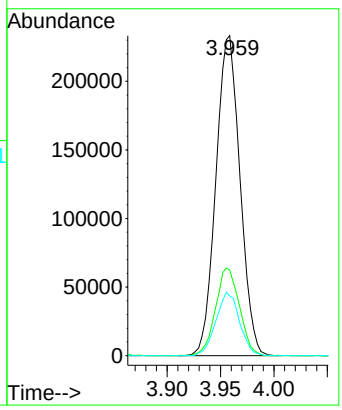




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.959 min Scan# 1
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion:114 Resp: 36654

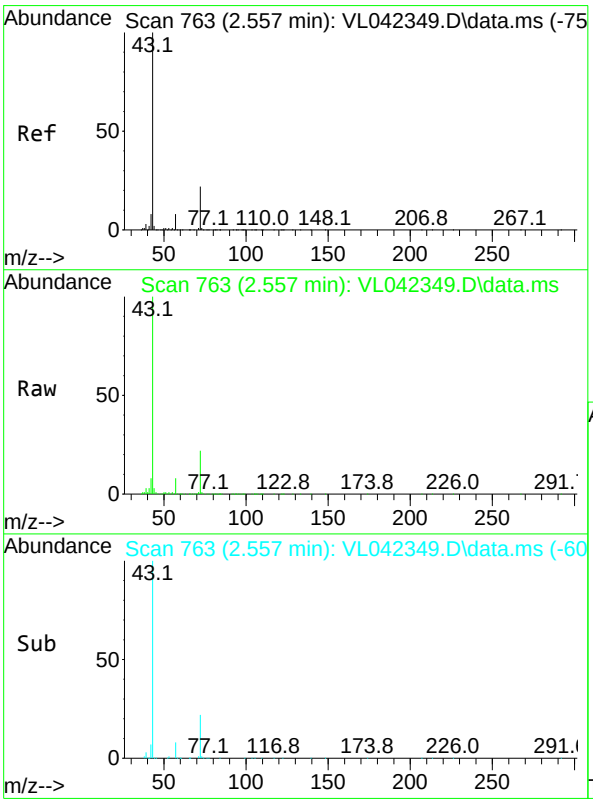
Ion	Ratio	Lower	Upper
114	100		
63	27.2	21.8	32.6
88	19.4	15.5	23.3



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations APPROVED

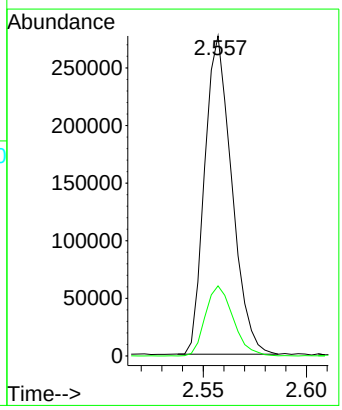
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

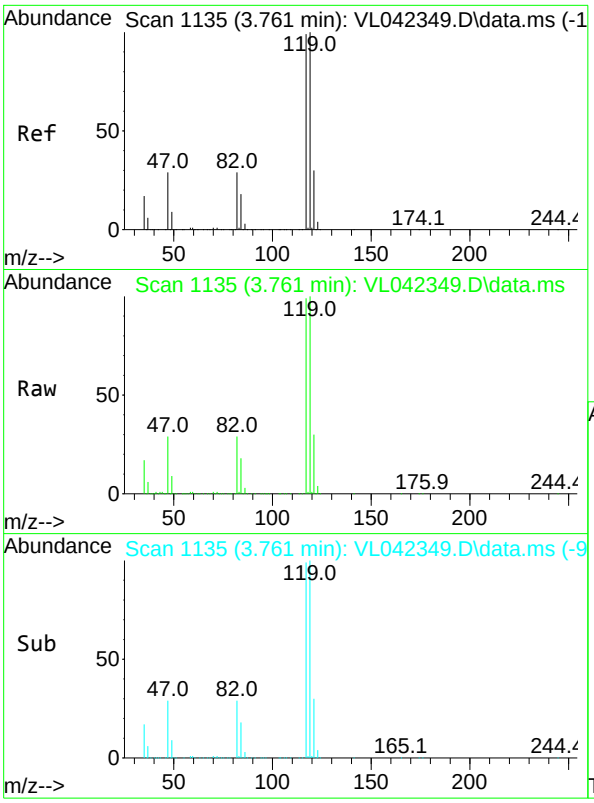


#34
2-Butanone
Concen: 8.683 ppbv
RT: 2.557 min Scan# 763
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 43 Resp: 251704

Ion	Ratio	Lower	Upper
43	100		
72	22.7	18.2	27.2

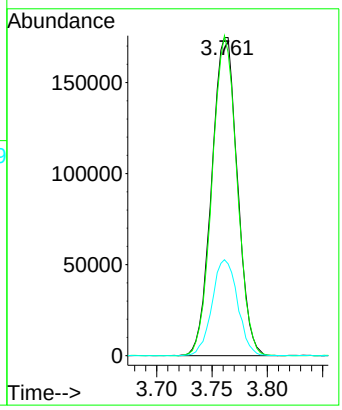




#35
Carbon Tetrachloride
Concen: 8.513 ppbv
RT: 3.761 min Scan# 1
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion:117 Resp: 28240

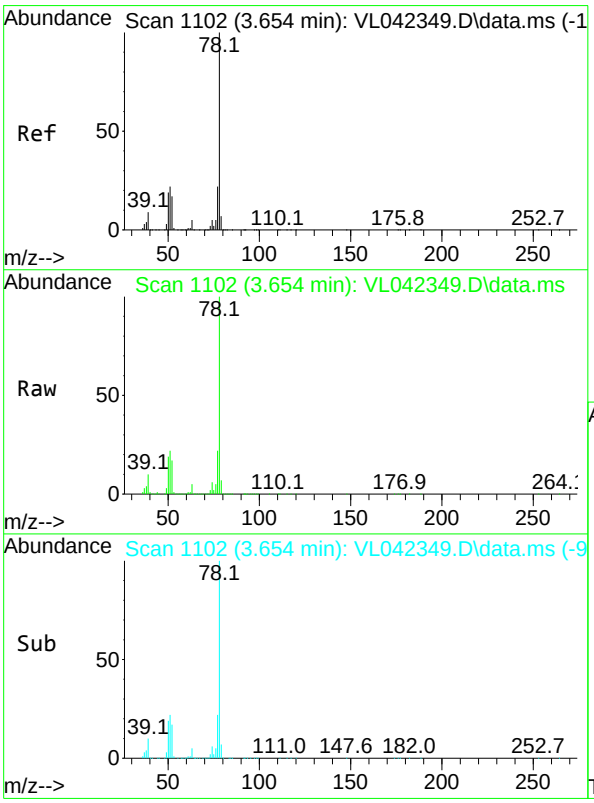
Ion	Ratio	Lower	Upper
117	100		
119	100.6	80.5	120.7
121	30.2	24.2	36.2



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

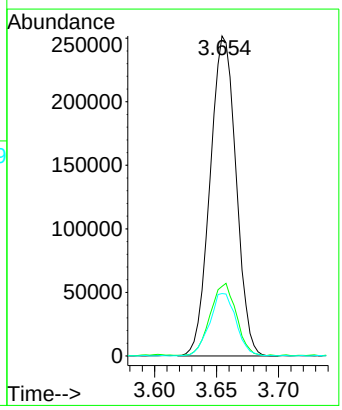
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

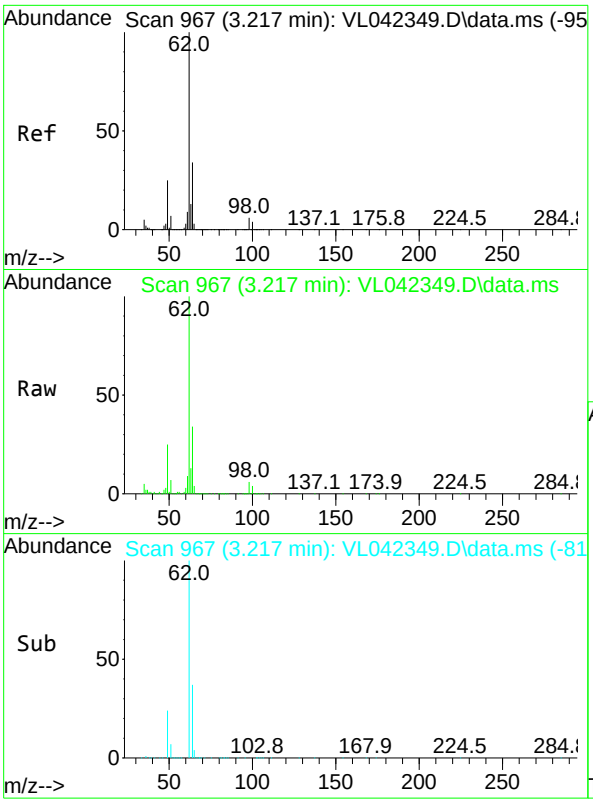


#36
Benzene
Concen: 9.292 ppbv
RT: 3.654 min Scan# 1102
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 78 Resp: 367355

Ion	Ratio	Lower	Upper
78	100		
77	21.7	17.4	26.0
50	19.4	15.5	23.3

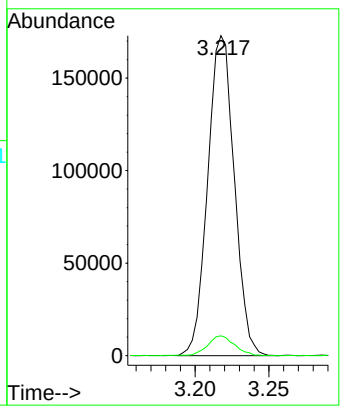




#37
1,2-Dichloroethane
Concen: 9.145 ppbv
RT: 3.217 min Scan# 9
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 62 Resp: 21699

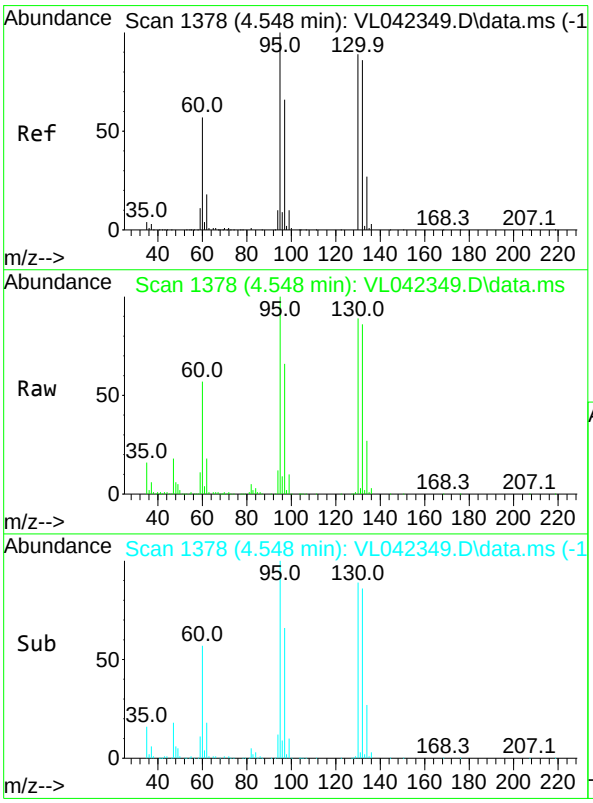
Ion	Ratio	Lower	Upper
62	100		
98	6.4	5.1	7.7



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

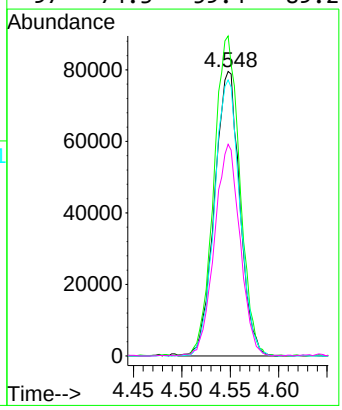
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

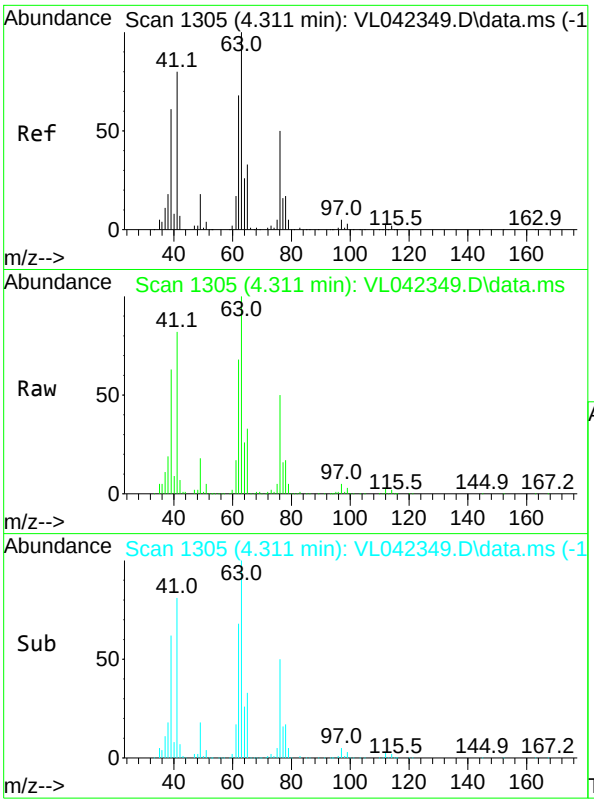


#38
Trichloroethene
Concen: 8.352 ppbv
RT: 4.548 min Scan# 1378
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion:130 Resp: 144767

Ion	Ratio	Lower	Upper
130	100		
95	112.2	89.8	134.6
132	97.1	77.7	116.5
97	74.3	59.4	89.2

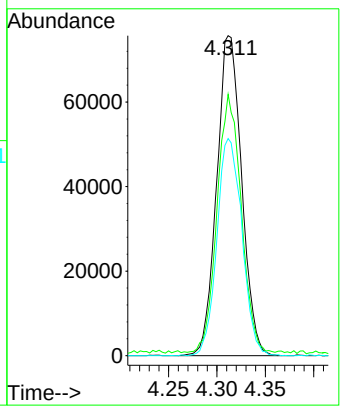




#39
1,2-Dichloropropane
Concen: 9.197 ppbv
RT: 4.311 min Scan# 1
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 63 Resp: 13560

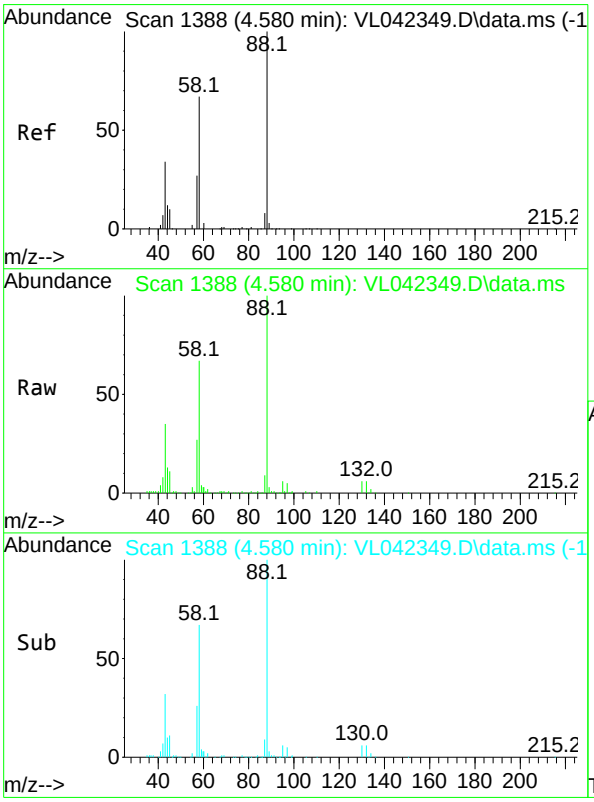
Ion	Ratio	Lower	Upper
63	100		
41	80.2	64.2	96.2
62	67.9	54.3	81.5



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

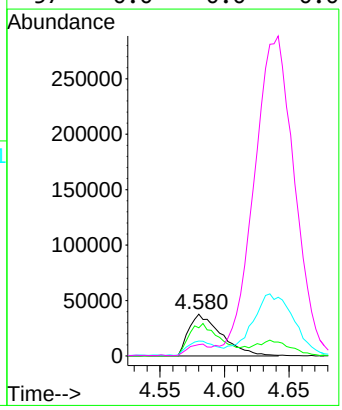
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

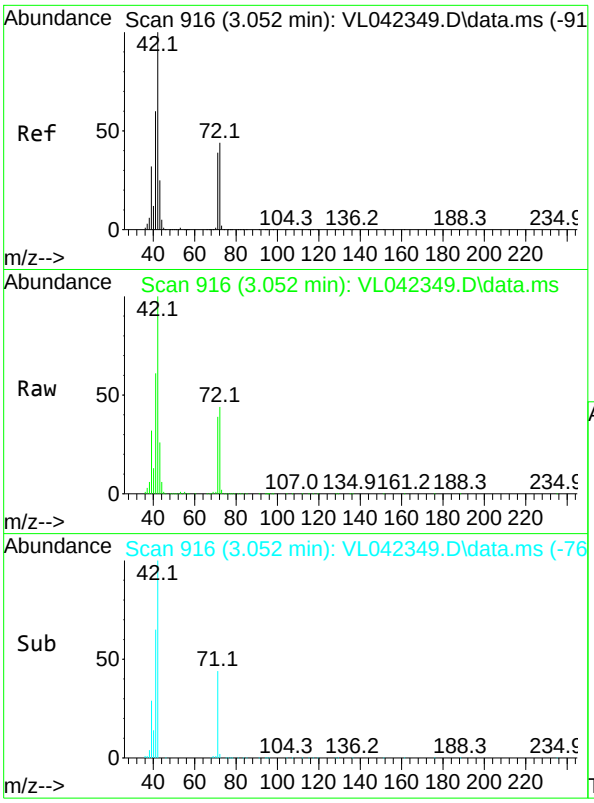


#40
1,4-Dioxane
Concen: 8.348 ppbv
RT: 4.580 min Scan# 1388
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 88 Resp: 66662

Ion	Ratio	Lower	Upper
88	100		
58	76.7	61.4	92.0
43	29.0	23.2	34.8
57	0.0	0.0	0.0

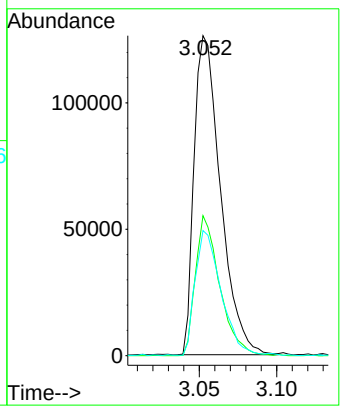




#41
Tetrahydrofuran
Concen: 8.950 ppbv
RT: 3.052 min Scan# 9
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 42 Resp: 14990

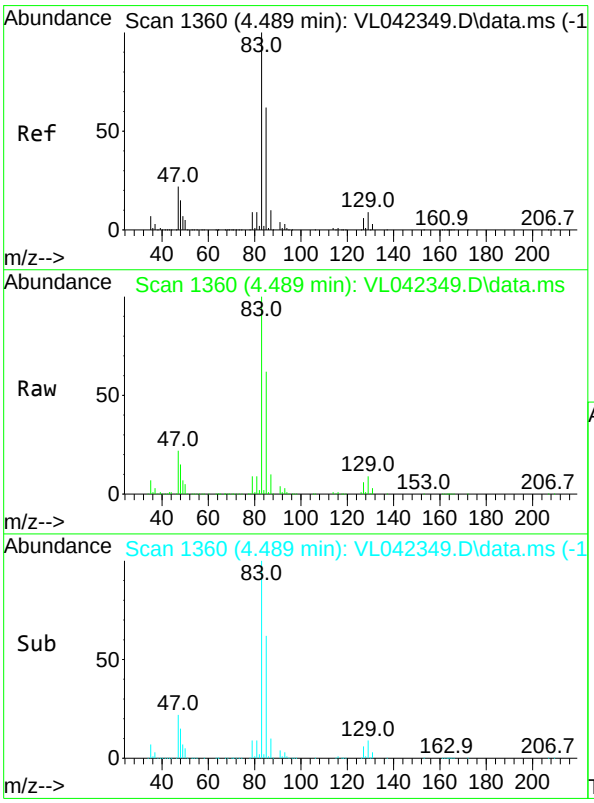
Ion	Ratio	Lower	Upper
42	100		
72	40.4	32.3	48.5
71	39.3	31.4	47.2



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

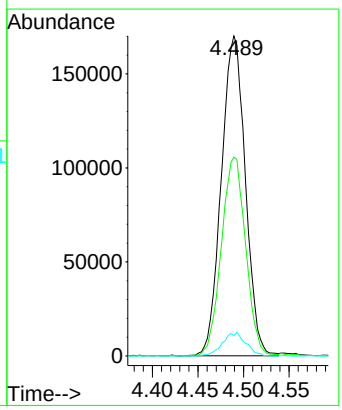
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

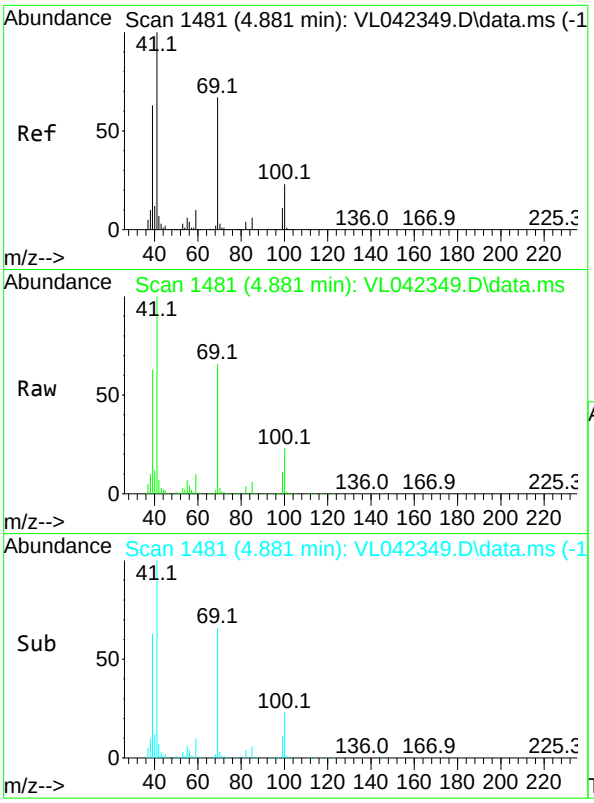


#42
Bromodichloromethane
Concen: 9.456 ppbv
RT: 4.489 min Scan# 1360
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 83 Resp: 312268

Ion	Ratio	Lower	Upper
83	100		
85	62.1	49.7	74.5
127	6.4	5.1	7.7

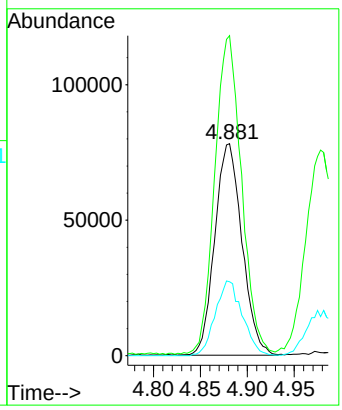




#43
Methyl Methacrylate
Concen: 8.876 ppbv
RT: 4.881 min Scan# 14
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 69 Resp: 15750

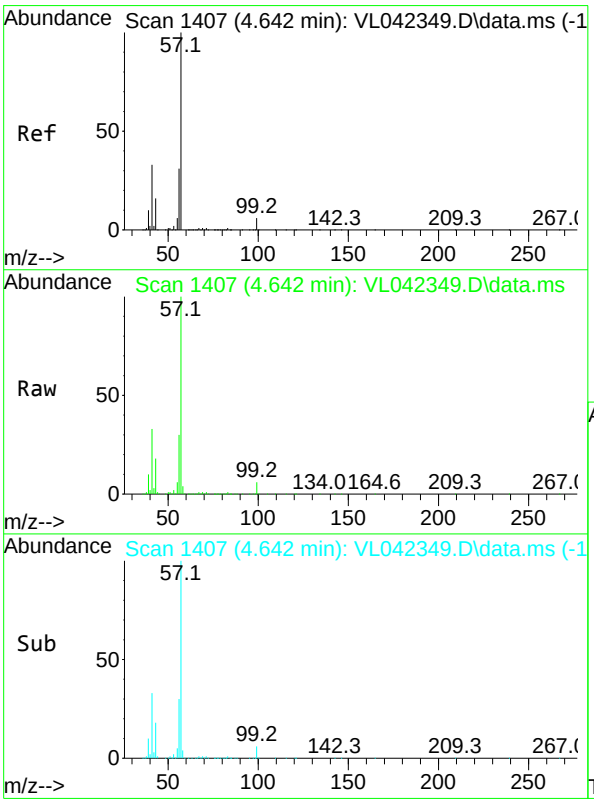
Ion	Ratio	Lower	Upper
69	100		
41	148.2	118.6	177.8
100	35.2	28.2	42.2



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations APPROVED

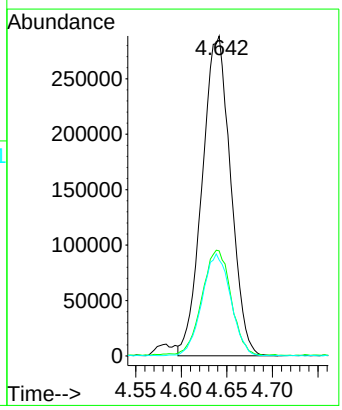
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

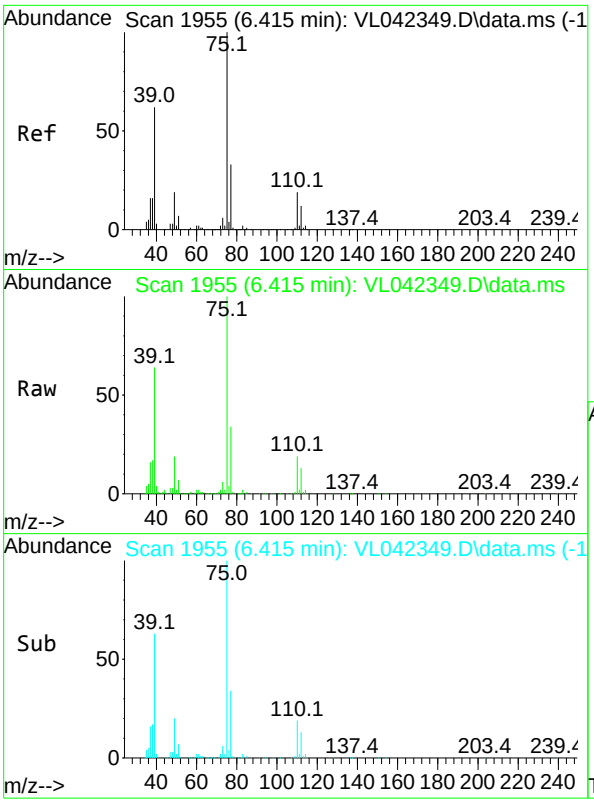


#44
2,2,4-Trimethylpentane
Concen: 9.157 ppbv
RT: 4.642 min Scan# 1407
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 57 Resp: 626085

Ion	Ratio	Lower	Upper
57	100		
41	34.0	27.2	40.8
56	32.1	25.7	38.5

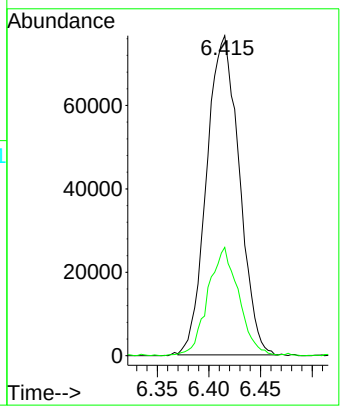




#45
t-1,3-Dichloropropene
Concen: 9.233 ppbv
RT: 6.415 min Scan# 1
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 75 Resp: 16822

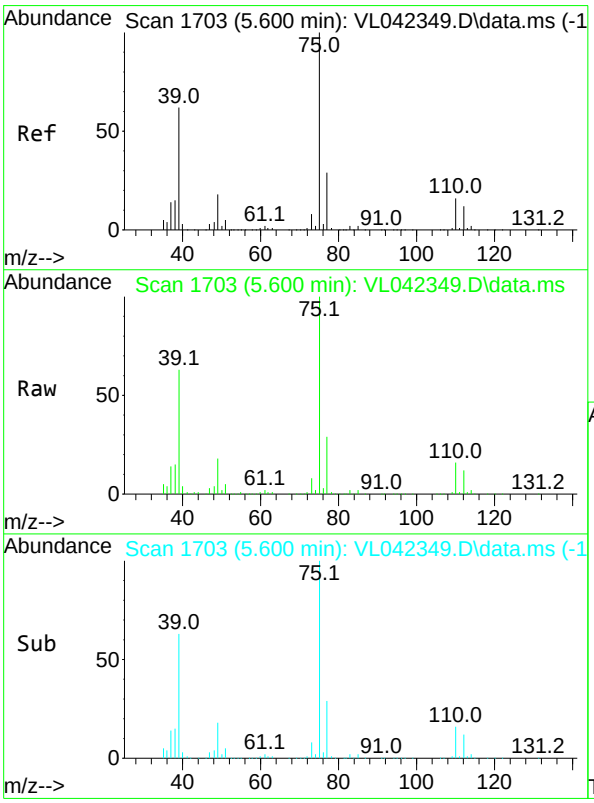
Ion	Ratio	Lower	Upper
75	100		
77	33.8	27.0	40.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

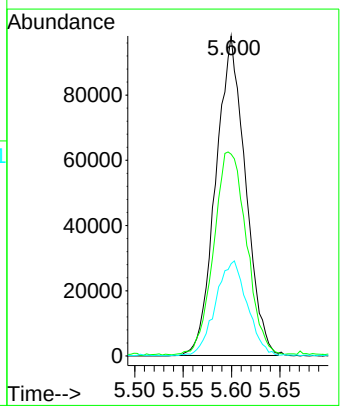
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

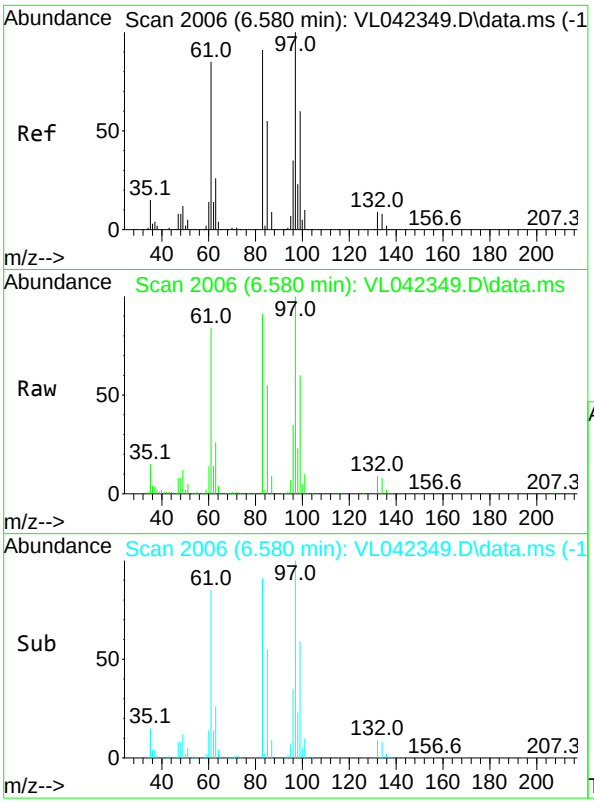


#46
cis-1,3-Dichloropropene
Concen: 9.377 ppbv
RT: 5.600 min Scan# 1703
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 75 Resp: 208811

Ion	Ratio	Lower	Upper
75	100		
39	62.5	50.0	75.0
77	28.8	23.0	34.6

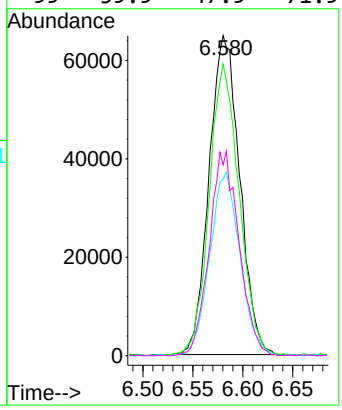




#47
1,1,2-Trichloroethane
Concen: 9.181 ppbv
RT: 6.580 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 97 Resp: 13789

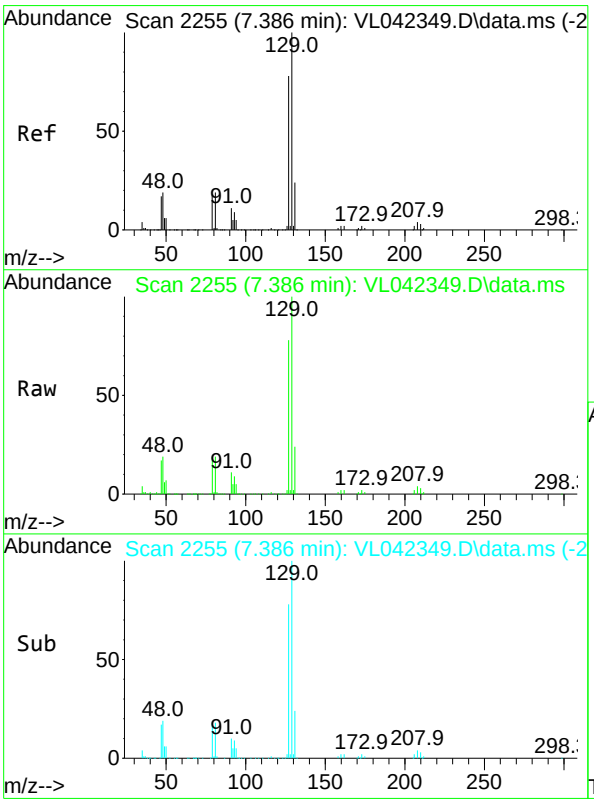
Ion	Ratio	Lower	Upper
97	100		
83	91.0	72.8	109.2
85	55.3	44.2	66.4
99	59.9	47.9	71.9



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

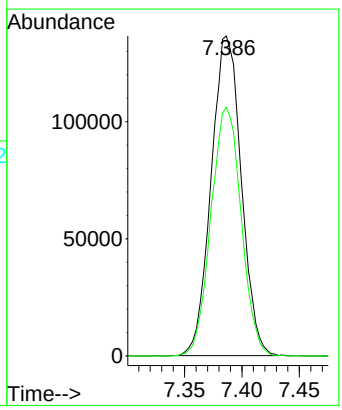
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

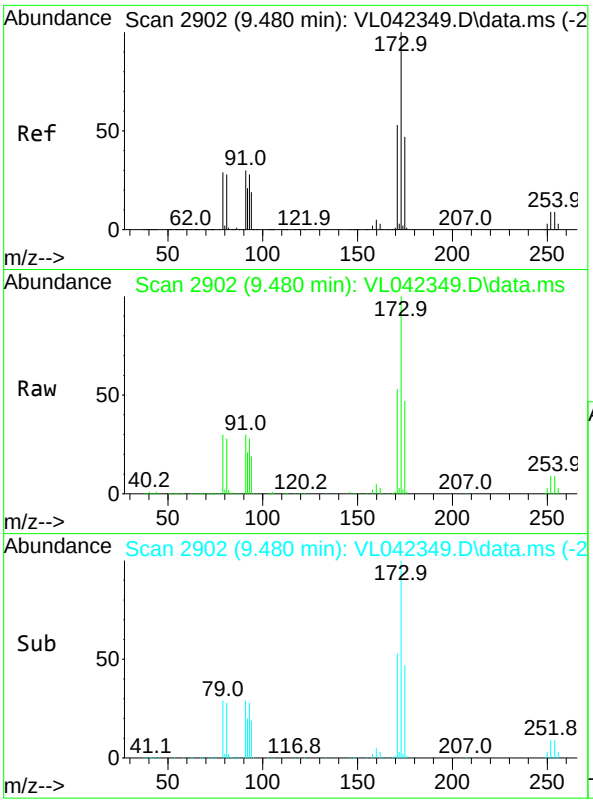


#48
Dibromochloromethane
Concen: 9.388 ppbv
RT: 7.386 min Scan# 2255
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion:129 Resp: 248954

Ion	Ratio	Lower	Upper
129	100		
127	78.2	39.1	117.3

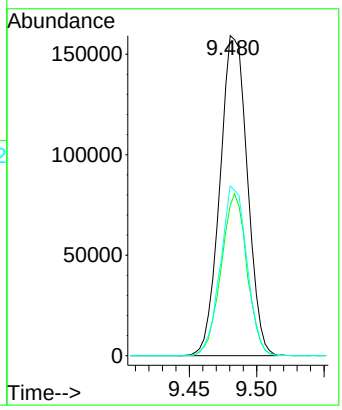




#49
Bromoform
Concen: 9.734 ppbv
RT: 9.480 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion:173 Resp: 22570

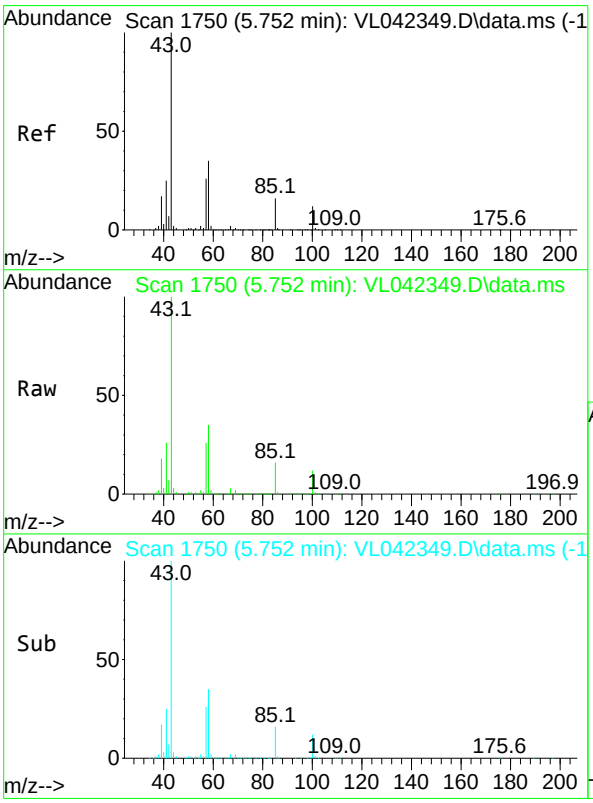
Ion	Ratio	Lower	Upper
173	100		
175	47.7	38.2	57.2
171	51.1	40.9	61.3



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

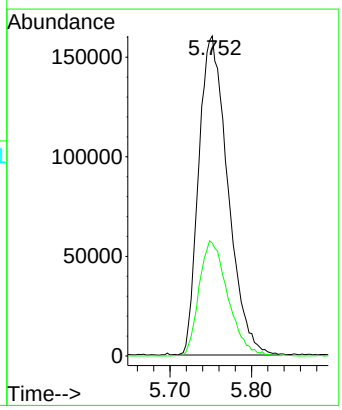
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

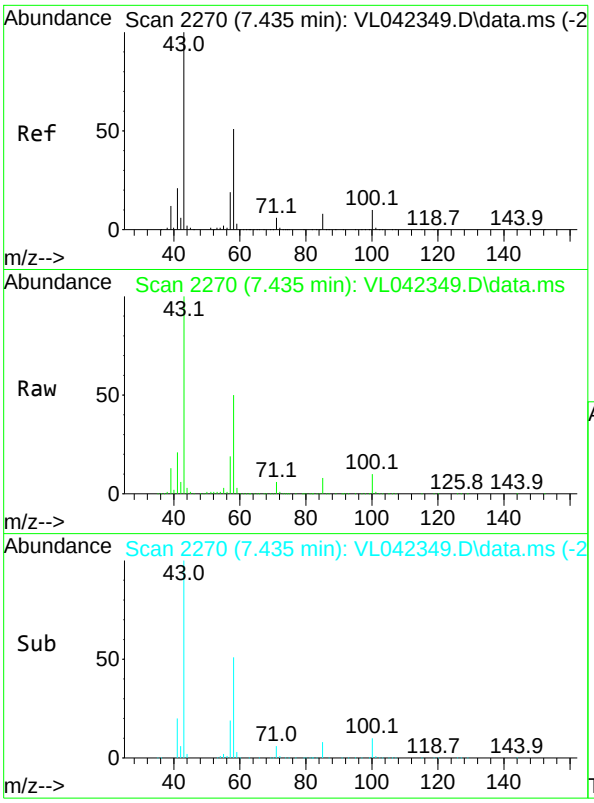


#50
4-Methyl-2-Pentanone
Concen: 8.215 ppbv
RT: 5.752 min Scan# 1750
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 43 Resp: 396548

Ion	Ratio	Lower	Upper
43	100		
58	35.8	28.6	43.0





#51
2-Hexanone
Concen: 7.511 ppbv
RT: 7.435 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

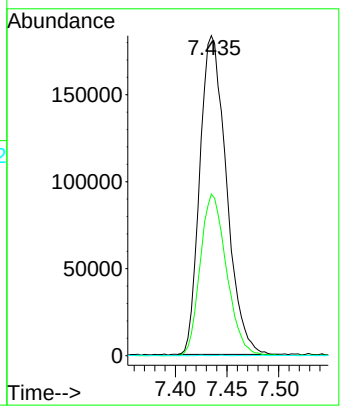
Tgt Ion: 43 Resp: 32716

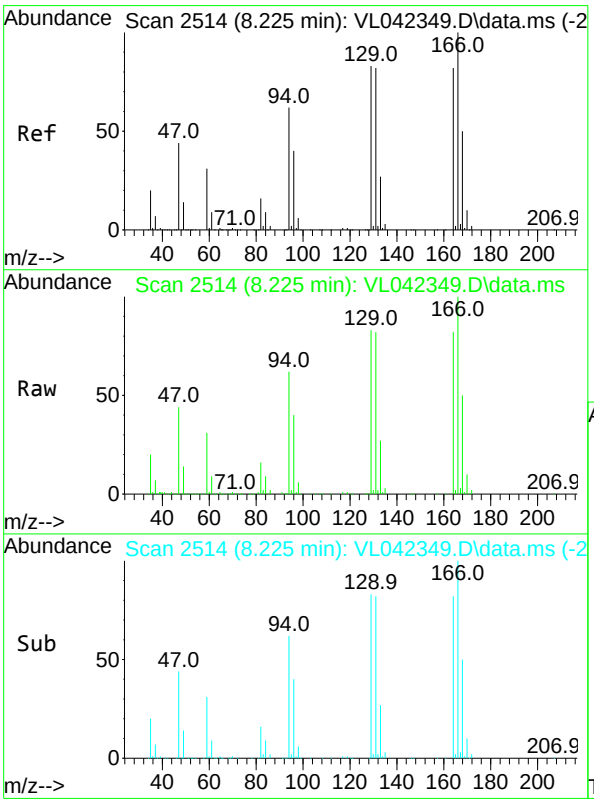
Ion	Ratio	Lower	Upper
43	100		
58	50.3	40.2	60.4
98	0.1	0.1	0.1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

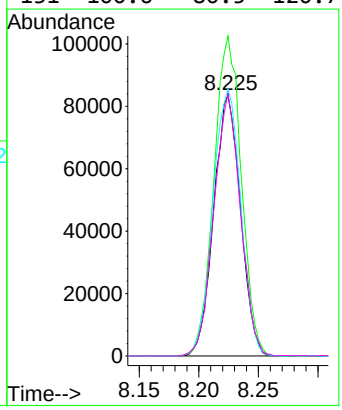


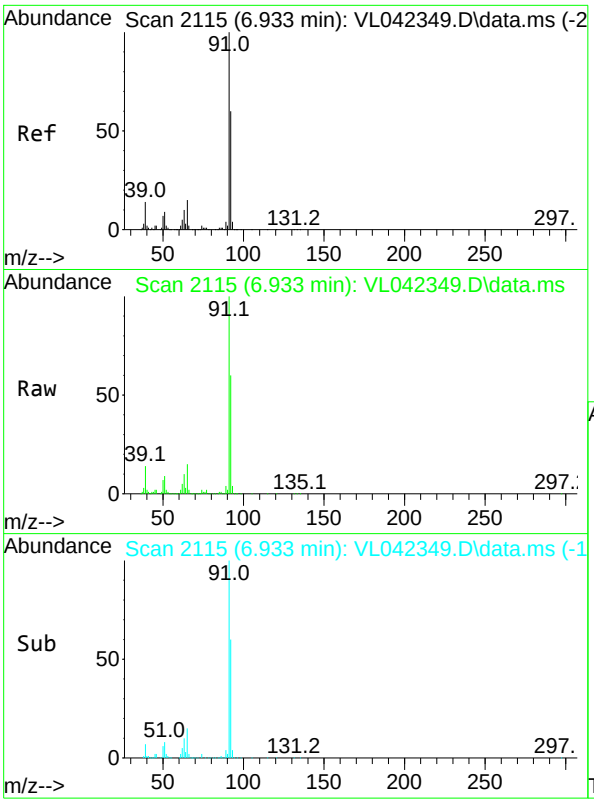


#52
Tetrachloroethene
Concen: 8.553 ppbv
RT: 8.225 min Scan# 2514
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion:164 Resp: 130720

Ion	Ratio	Lower	Upper
164	100		
166	122.7	98.2	147.2
129	102.3	81.8	122.8
131	100.6	80.5	120.7

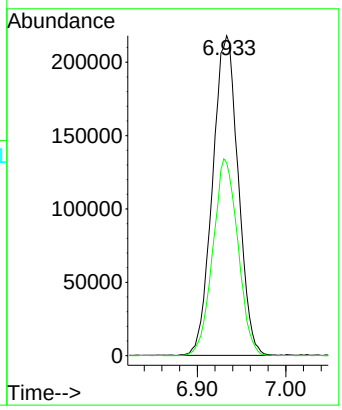




#53
Toluene
Concen: 9.216 ppbv
RT: 6.933 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 91 Resp: 43725

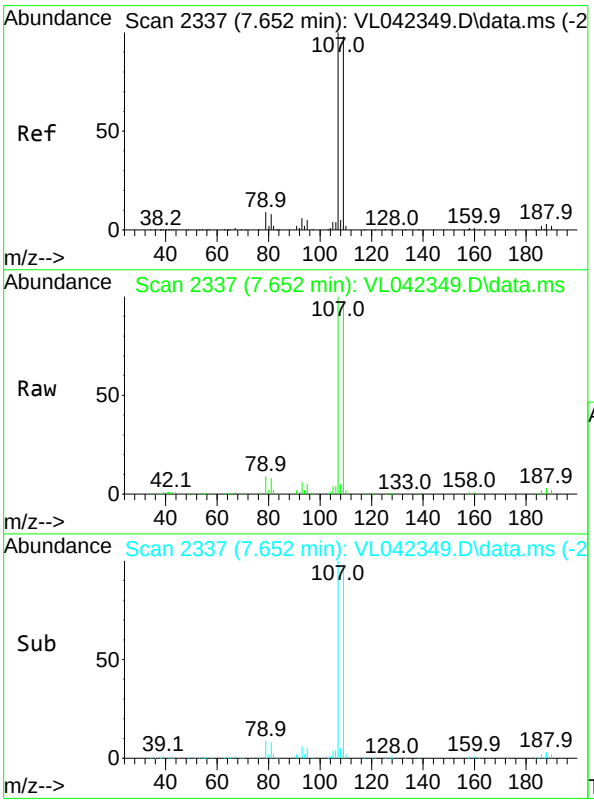
Ion	Ratio	Lower	Upper
91	100		
92	60.3	48.2	72.4



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

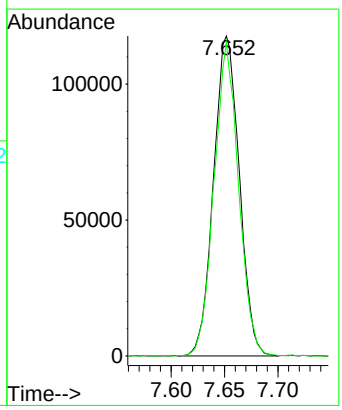
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

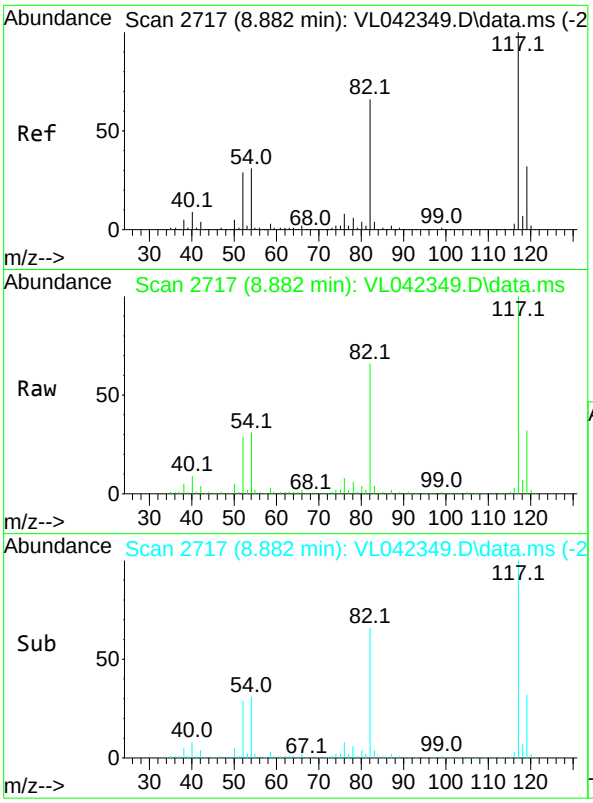


#54
1,2-Dibromoethane
Concen: 9.235 ppbv
RT: 7.652 min Scan# 2337
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion:107 Resp: 197665

Ion	Ratio	Lower	Upper
107	100		
109	97.8	78.2	117.4

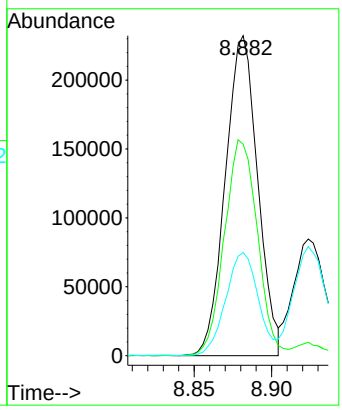




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.882 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion:117 Resp: 33812

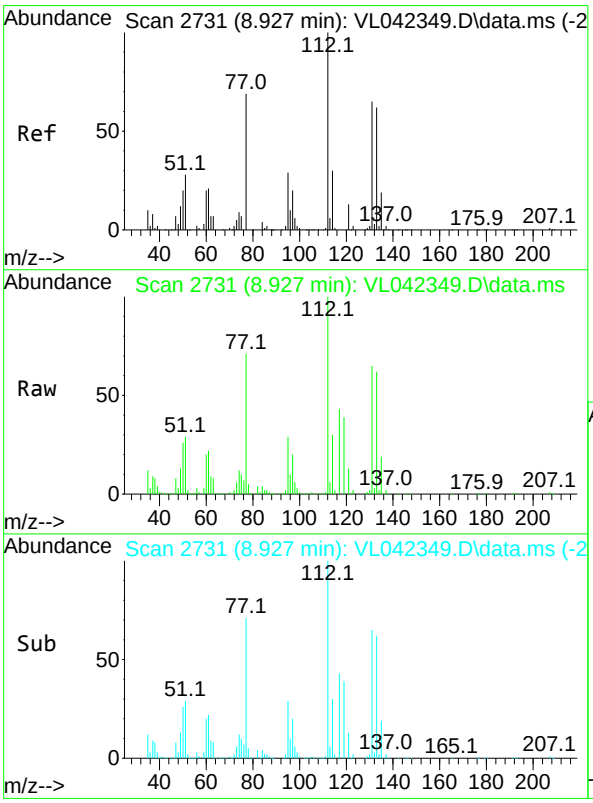
Ion	Ratio	Lower	Upper
117	100		
82	72.2	57.8	86.6
119	31.5	25.2	37.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

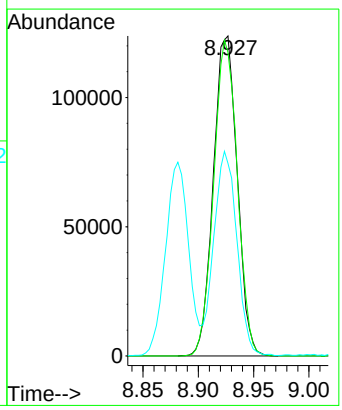
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

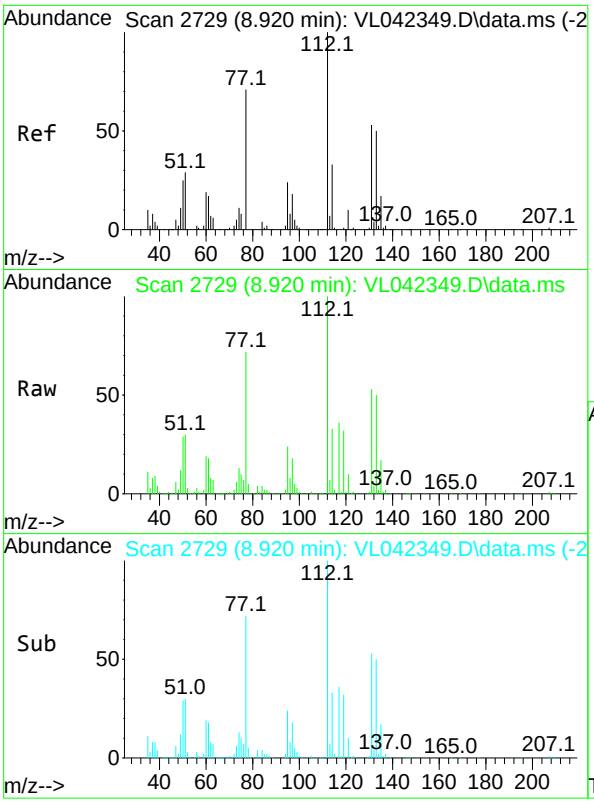


#56
1,1,1,2-Tetrachloroethane
Concen: 9.091 ppbv
RT: 8.927 min Scan# 2731
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion:131 Resp: 186041

Ion	Ratio	Lower	Upper
131	100		
133	97.9	78.3	117.5
119	60.9	48.7	73.1

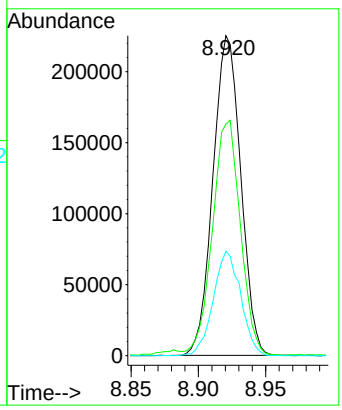




#57
Chlorobenzene
Concen: 9.187 ppbv
RT: 8.920 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion:112 Resp: 32308

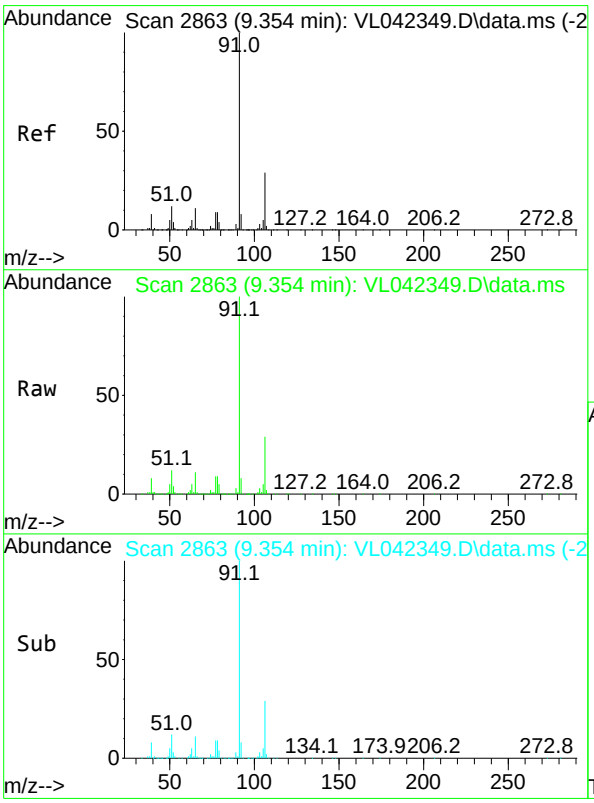
Ion	Ratio	Lower	Upper
112	100		
77	72.2	57.8	86.6
114	32.6	29.3	35.9



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

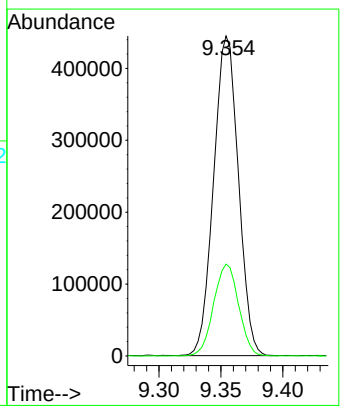
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

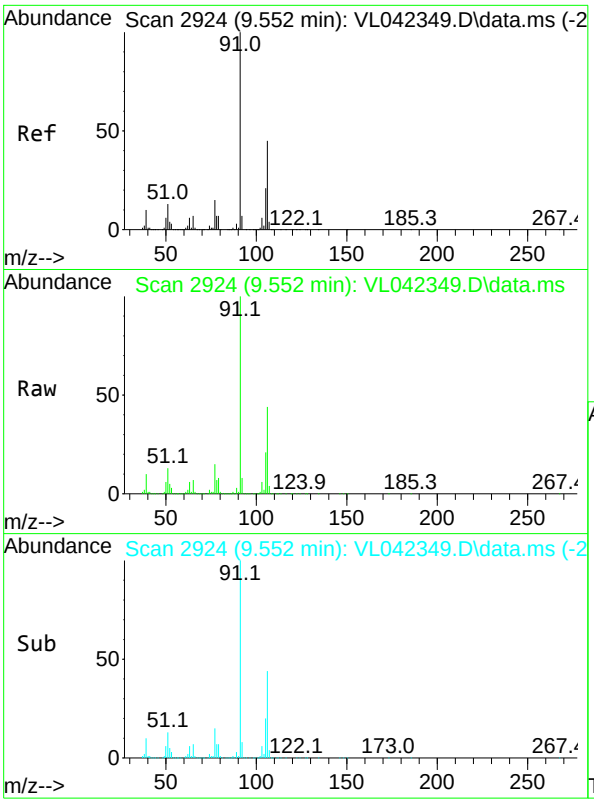


#58
Ethyl Benzene
Concen: 9.248 ppbv
RT: 9.354 min Scan# 2863
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 91 Resp: 619581

Ion	Ratio	Lower	Upper
91	100		
106	28.7	23.0	34.4

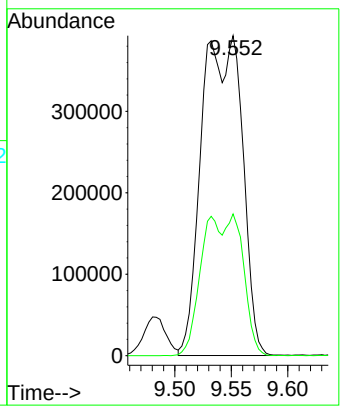




#59
m/p-Xylene
Concen: 18.187 ppbv m
RT: 9.552 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 91 Resp: 98445

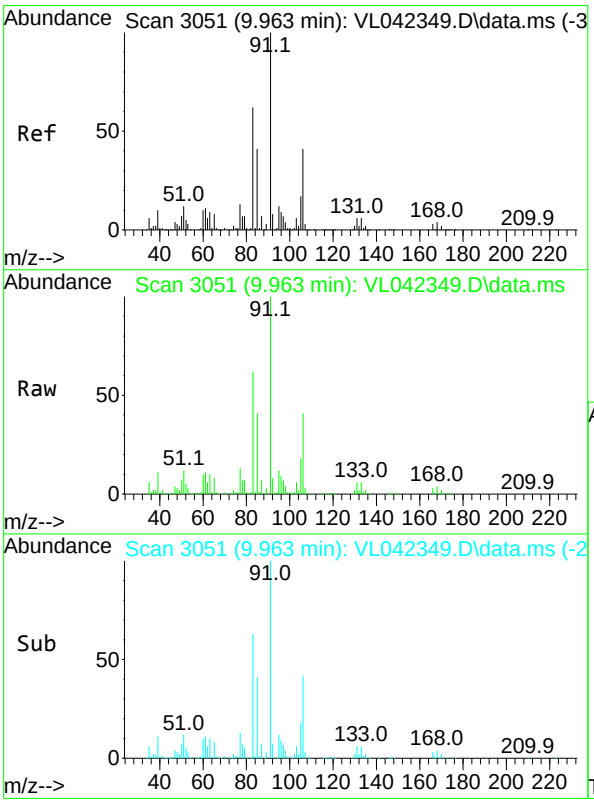
Ion	Ratio	Lower	Upper
91	100		
106	44.3	35.4	53.2



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
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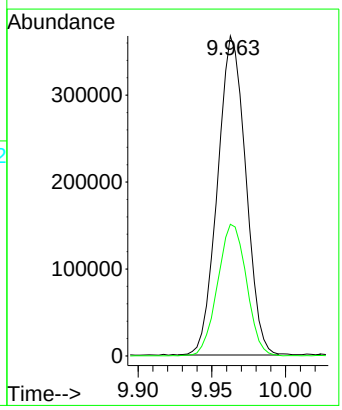
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

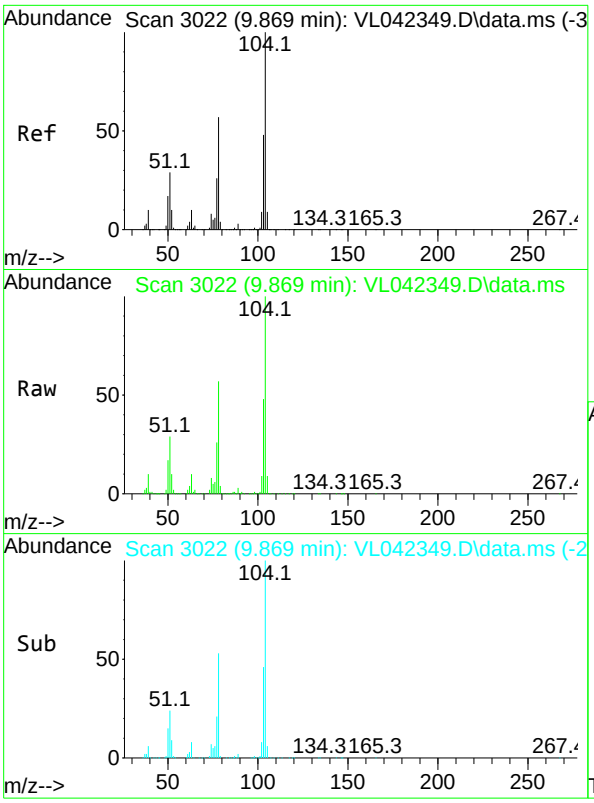


#60
o-Xylene
Concen: 8.972 ppbv
RT: 9.963 min Scan# 3051
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 91 Resp: 487616

Ion	Ratio	Lower	Upper
91	100		
106	42.3	21.1	63.4

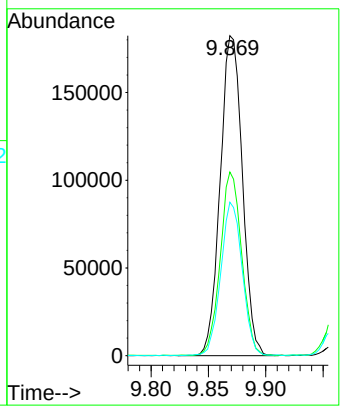




#61
Styrene
Concen: 9.464 ppbv
RT: 9.869 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion:104 Resp: 24548

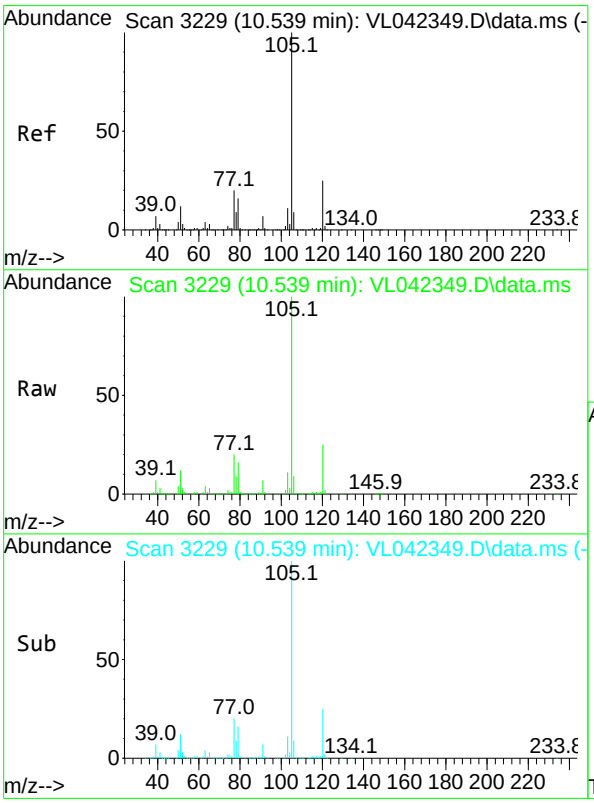
Ion	Ratio	Lower	Upper
104	100		
78	55.7	44.6	66.8
103	46.7	37.4	56.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

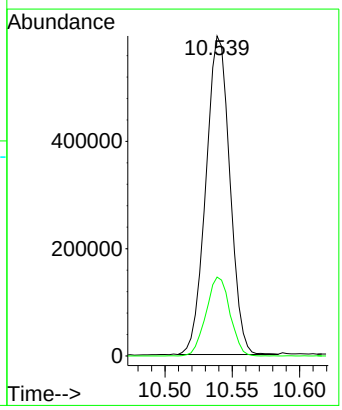
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

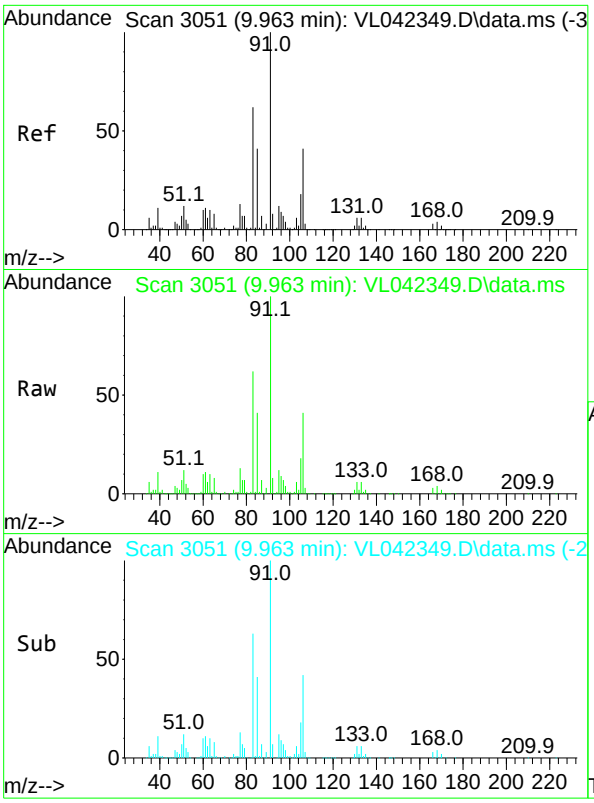


#62
Isopropylbenzene
Concen: 9.197 ppbv
RT: 10.539 min Scan# 3229
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion:105 Resp: 733788

Ion	Ratio	Lower	Upper
105	100		
120	24.8	19.8	29.8

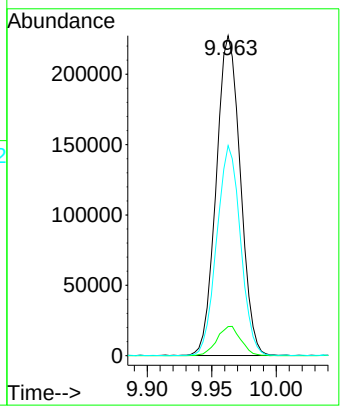




#63
1,1,2,2-Tetrachloroethane
Concen: 8.355 ppbv
RT: 9.963 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 83 Resp: 29504

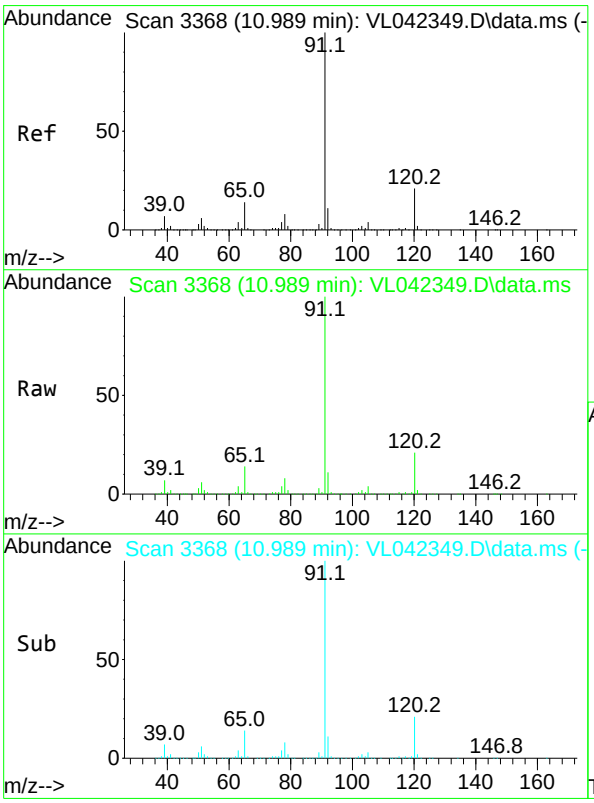
Ion	Ratio	Lower	Upper
83	100		
131	9.1	4.5	13.7
85	64.7	32.4	97.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

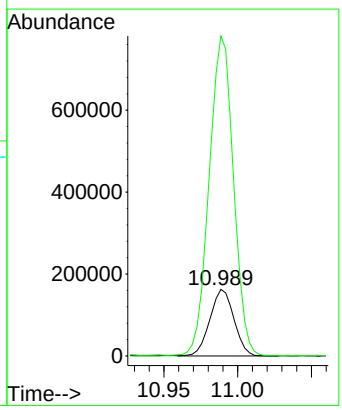
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

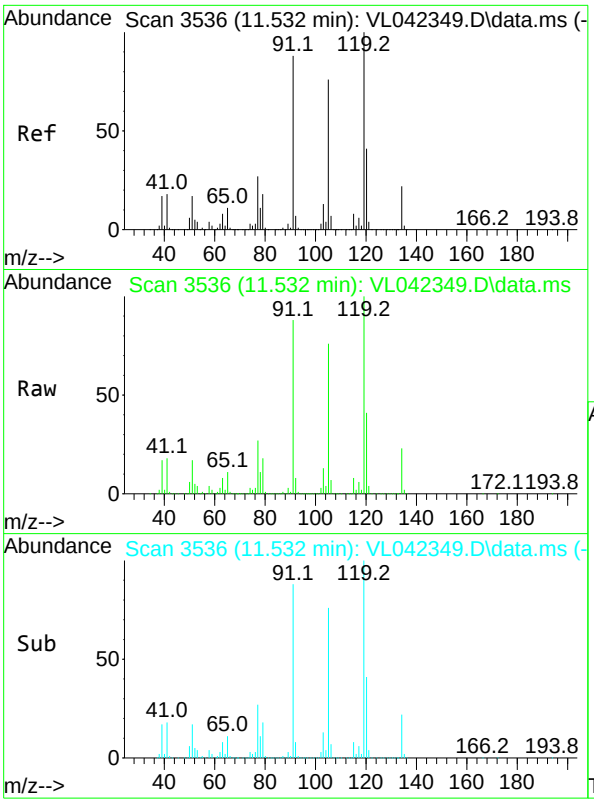


#64
n-propylbenzene
Concen: 9.144 ppbv
RT: 10.989 min Scan# 3368
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion:120 Resp: 183390

Ion	Ratio	Lower	Upper
120	100		
91	490.5	392.4	588.6

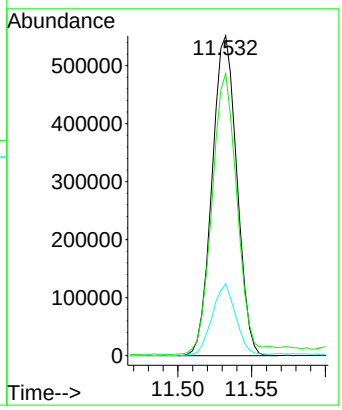




#65
tert-Butylbenzene
Concen: 8.795 ppbv
RT: 11.532 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion:119 Resp: 64495

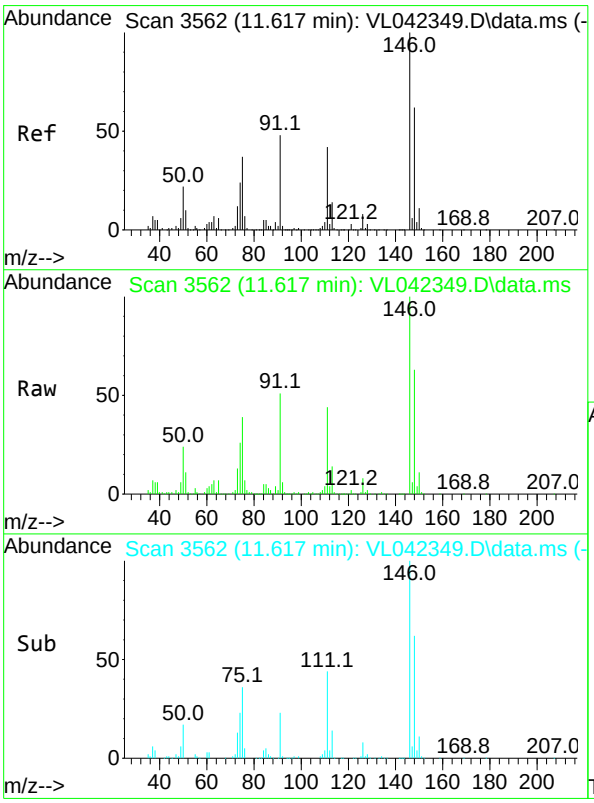
Ion	Ratio	Lower	Upper
119	100		
91	93.2	74.6	111.8
134	23.5	18.8	28.2



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

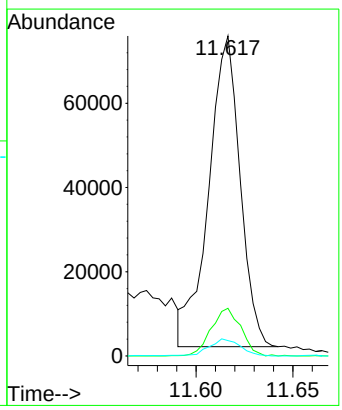
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

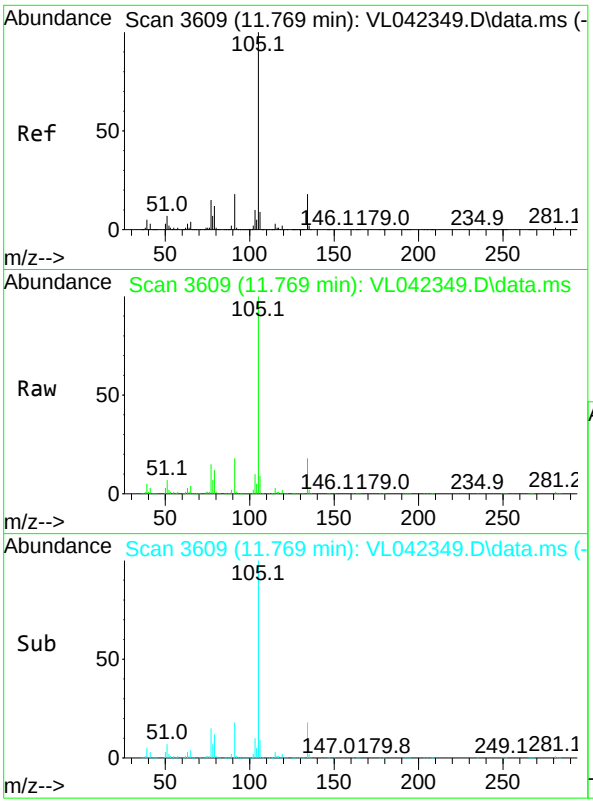


#66
Benzyl Chloride
Concen: 10.333 ppbv
RT: 11.617 min Scan# 3562
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 91 Resp: 83269

Ion	Ratio	Lower	Upper
91	100		
126	14.7	11.8	17.6
128	5.6	4.5	6.7

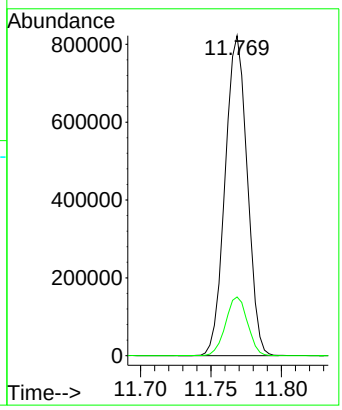




#67
sec-Butylbenzene
Concen: 8.824 ppbv
RT: 11.769 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion:105 Resp: 90007

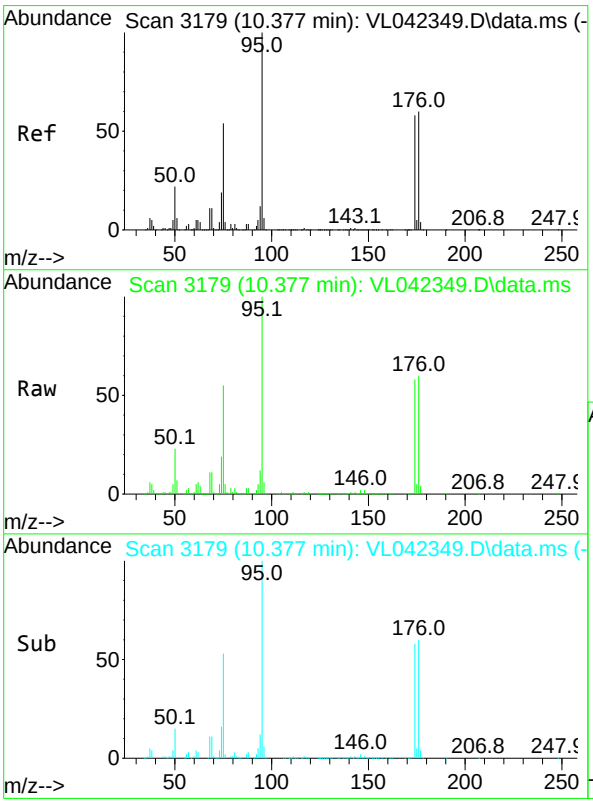
Ion	Ratio	Lower	Upper
105	100		
134	18.2	14.6	21.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

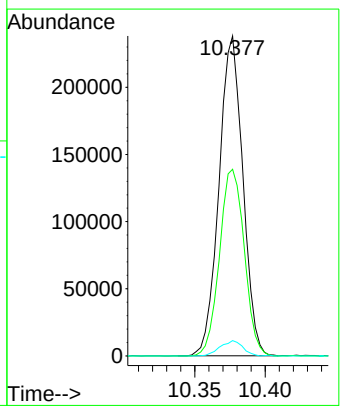
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

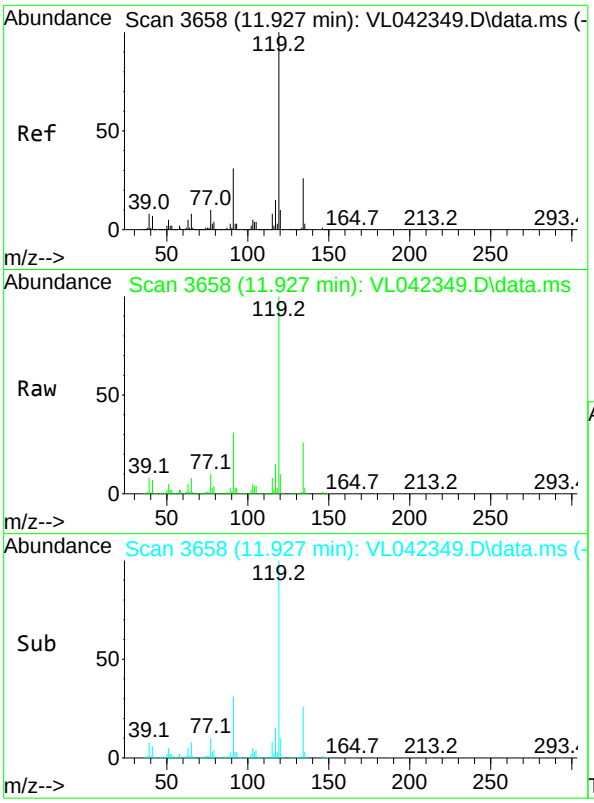


#68
1-Bromo-4-Fluorobenzene
Concen: 10.114 ppbv
RT: 10.377 min Scan# 3179
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 95 Resp: 281013

Ion	Ratio	Lower	Upper
95	100		
174	60.6	48.5	72.7
175	4.6	3.7	5.5

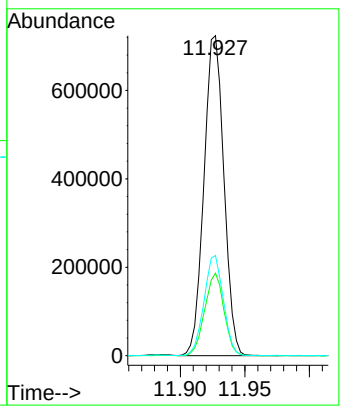




#69
p-Isopropyltoluene
Concen: 8.790 ppbv
RT: 11.927 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion:119 Resp: 77898

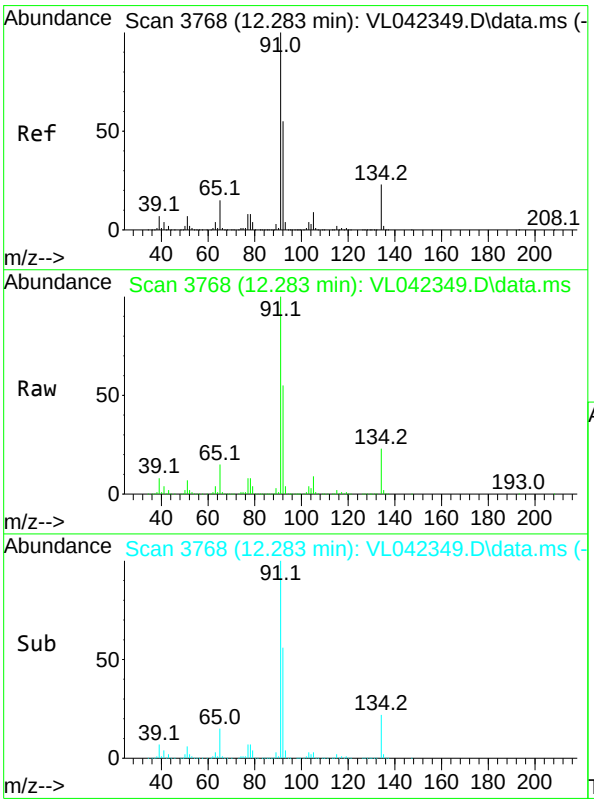
Ion	Ratio	Lower	Upper
119	100		
134	25.0	20.0	30.0
91	30.5	24.4	36.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

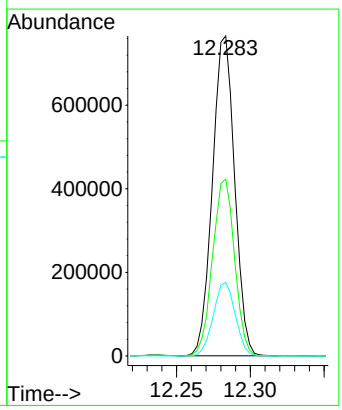
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

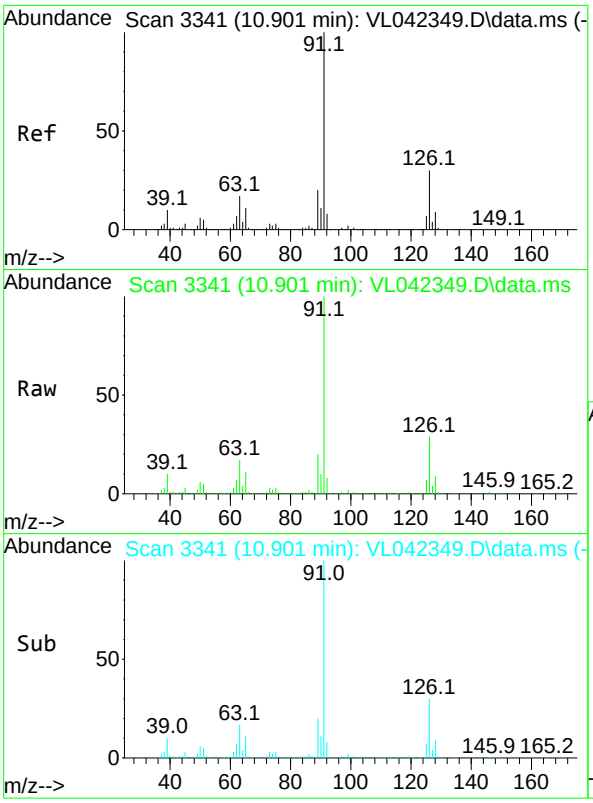


#70
n-Butylbenzene
Concen: 8.682 ppbv
RT: 12.283 min Scan# 3768
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 91 Resp: 801364

Ion	Ratio	Lower	Upper
91	100		
92	55.3	44.2	66.4
134	22.8	18.2	27.4

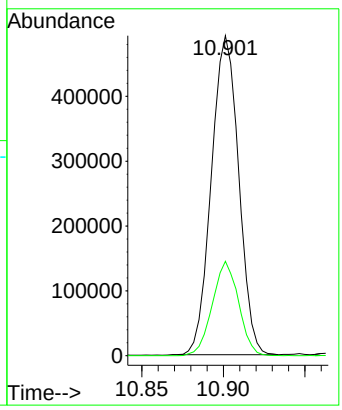




#71
2-Chlorotoluene
Concen: 9.157 ppbv
RT: 10.901 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 91 Resp: 57303

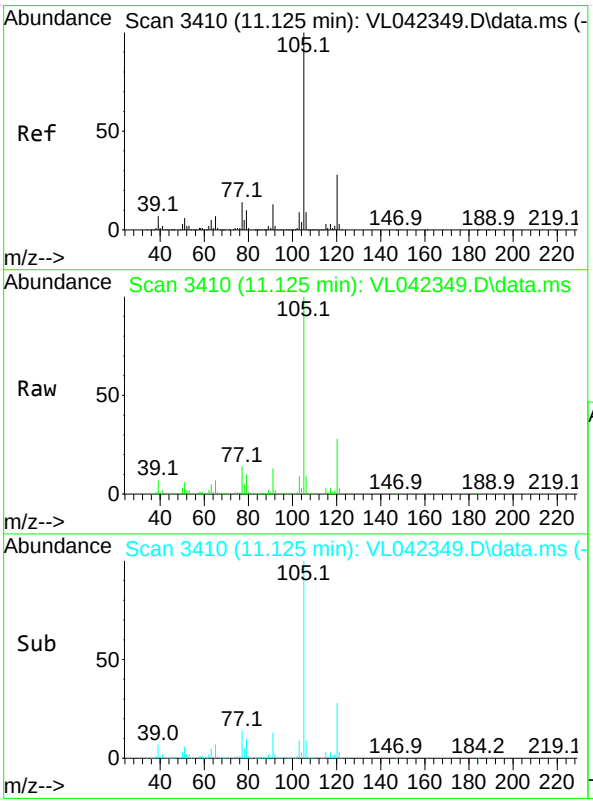
Ion	Ratio	Lower	Upper
91	100		
126	28.4	11.4	45.4



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

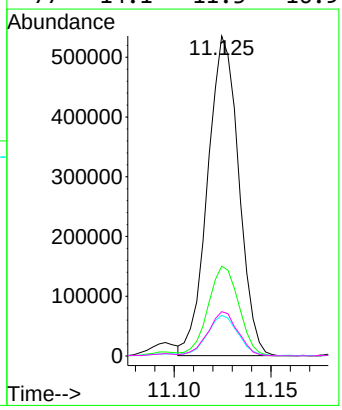
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

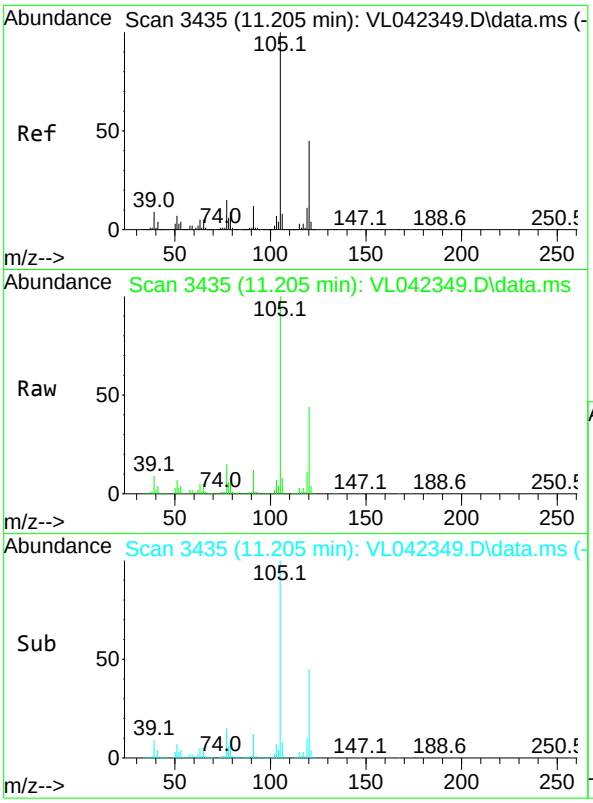


#72
4-Ethyltoluene
Concen: 8.982 ppbv
RT: 11.125 min Scan# 3410
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion:105 Resp: 596757

Ion	Ratio	Lower	Upper
105	100		
120	29.0	23.2	34.8
91	13.0	10.4	15.6
77	14.1	11.3	16.9

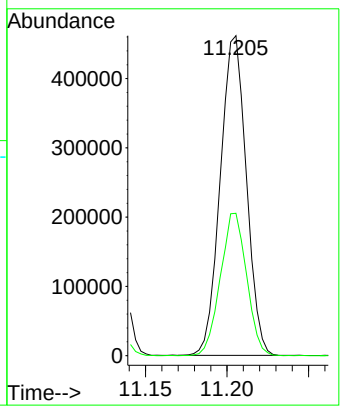




#73
1,3,5-Trimethylbenzene
Concen: 8.743 ppbv
RT: 11.205 min Scan# 34
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion:105 Resp: 51285

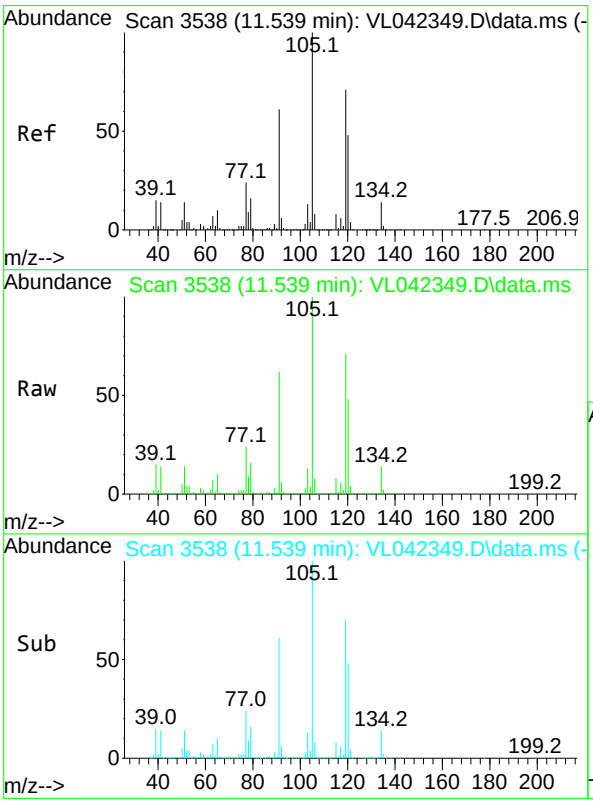
Ion	Ratio	Lower	Upper
105	100		
120	44.5	35.6	53.4



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

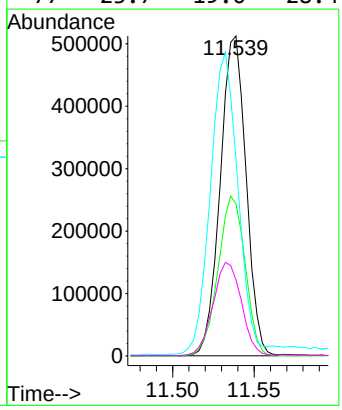
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

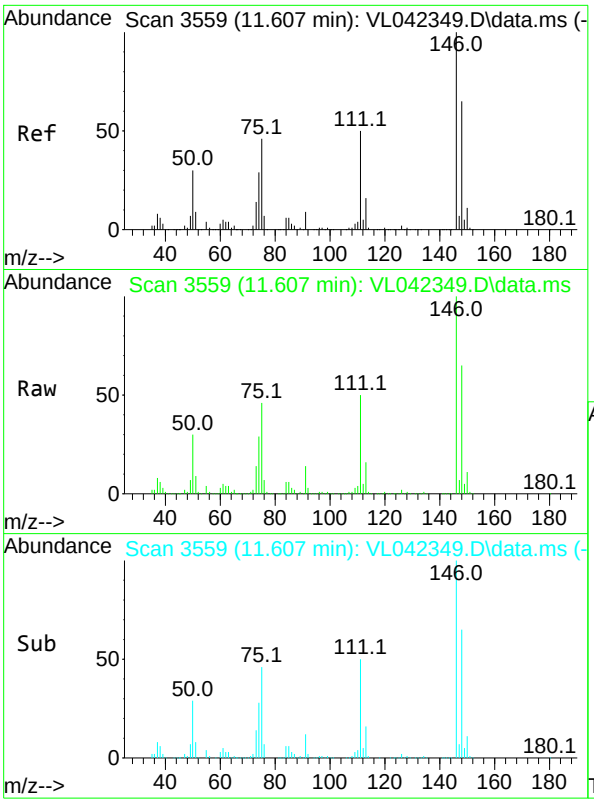


#74
1,2,4-Trimethylbenzene
Concen: 8.248 ppbv
RT: 11.539 min Scan# 3538
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion:105 Resp: 565064

Ion	Ratio	Lower	Upper
105	100		
120	47.6	38.1	57.1
91	61.0	48.8	73.2
77	23.7	19.0	28.4

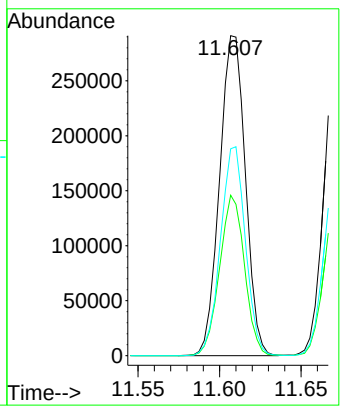




#75
1,3-Dichlorobenzene
Concen: 8.997 ppbv
RT: 11.607 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion:146 Resp: 32038

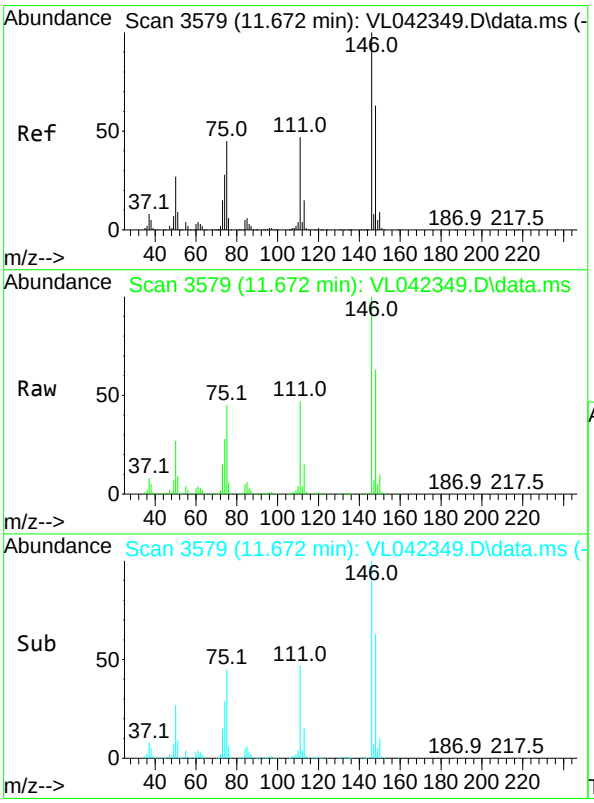
Ion	Ratio	Lower	Upper
146	100		
111	48.5	24.3	72.8
148	63.2	31.6	94.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations APPROVED

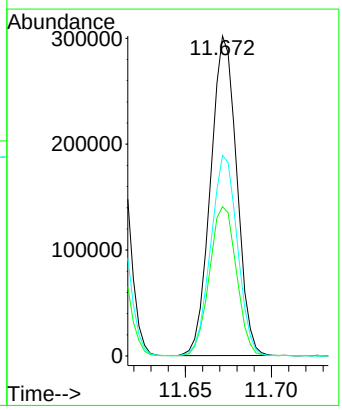
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

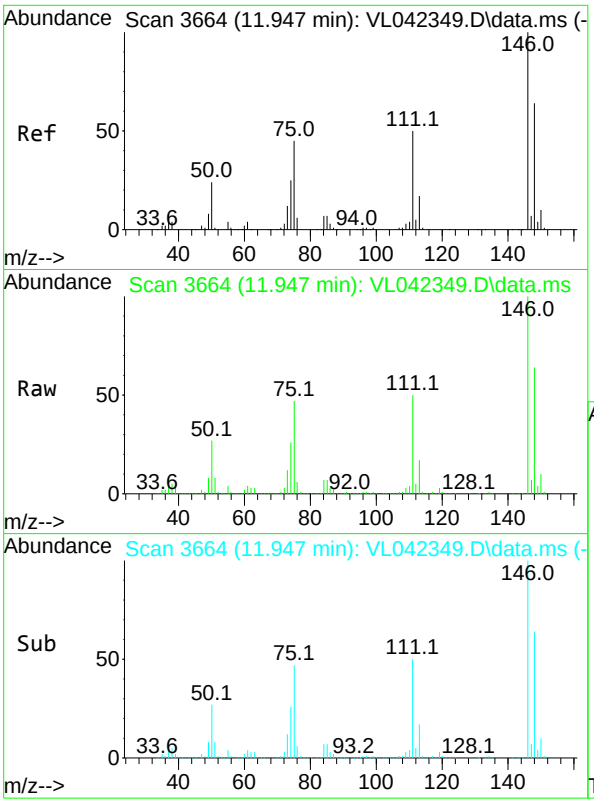


#76
1,4-Dichlorobenzene
Concen: 8.915 ppbv
RT: 11.672 min Scan# 3579
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion:146 Resp: 319089

Ion	Ratio	Lower	Upper
146	100		
111	48.4	24.2	72.6
148	64.3	32.1	96.5

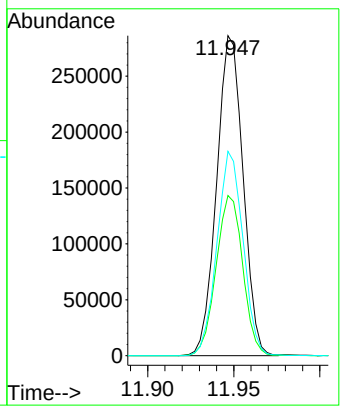




#77
1,2-Dichlorobenzene
Concen: 8.832 ppbv
RT: 11.947 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion:146 Resp: 30582

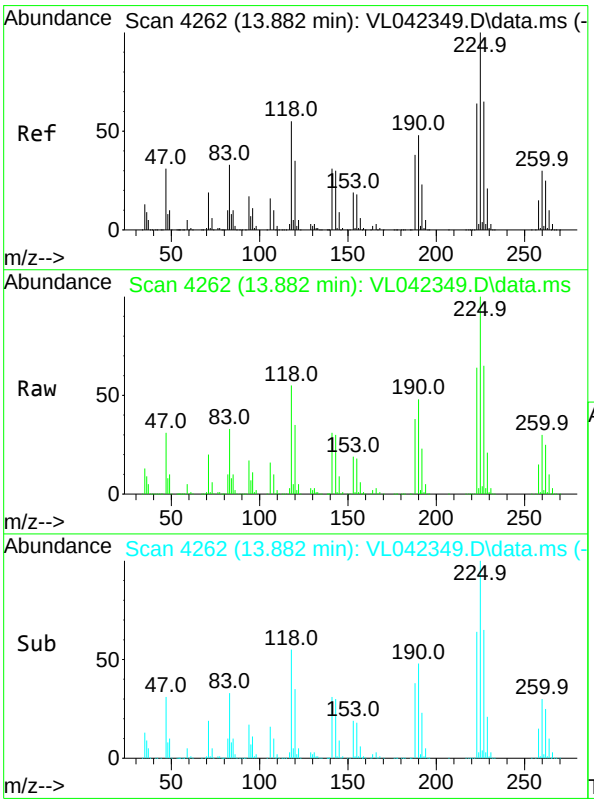
Ion	Ratio	Lower	Upper
146	100		
111	50.6	25.3	75.9
148	63.0	31.5	94.5



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

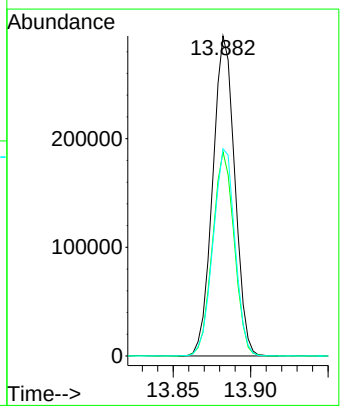
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

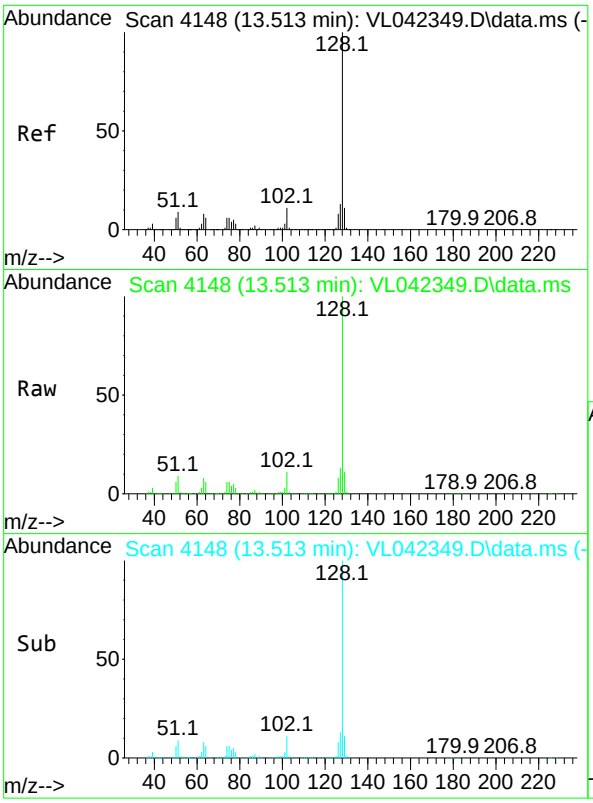


#78
Hexachloro-1,3-Butadiene
Concen: 8.346 ppbv
RT: 13.882 min Scan# 4262
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion:225 Resp: 291833

Ion	Ratio	Lower	Upper
225	100		
223	62.9	50.3	75.5
227	64.4	51.5	77.3

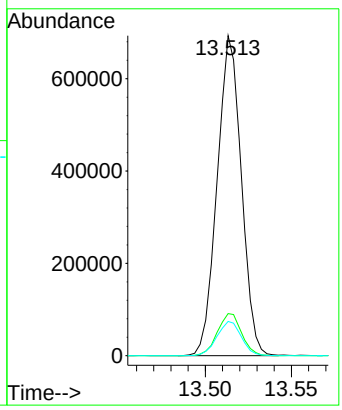




#79
Naphthalene
Concen: 8.271 ppbv
RT: 13.513 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion:128 Resp: 67757

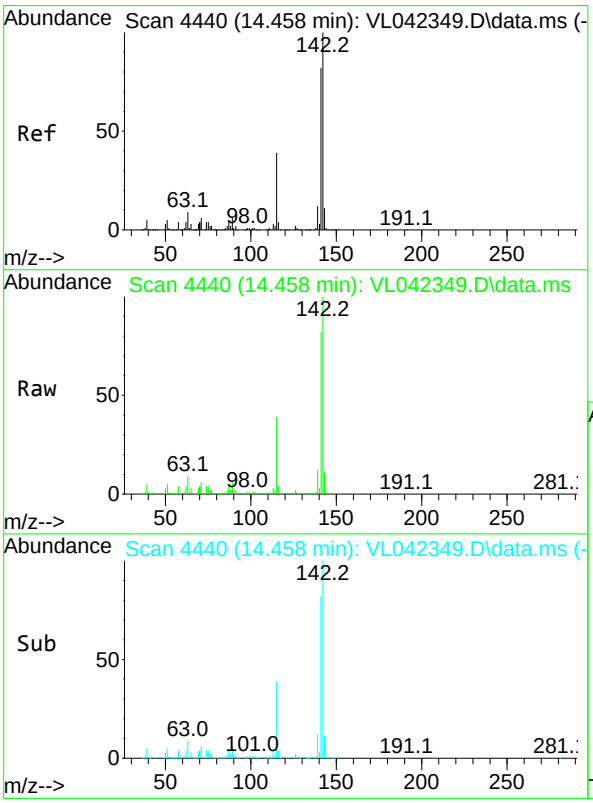
Ion	Ratio	Lower	Upper
128	100		
127	13.2	10.6	15.8
129	10.7	8.6	12.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

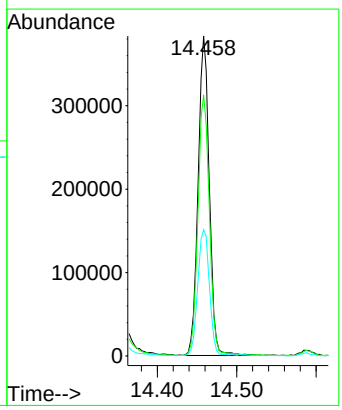
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

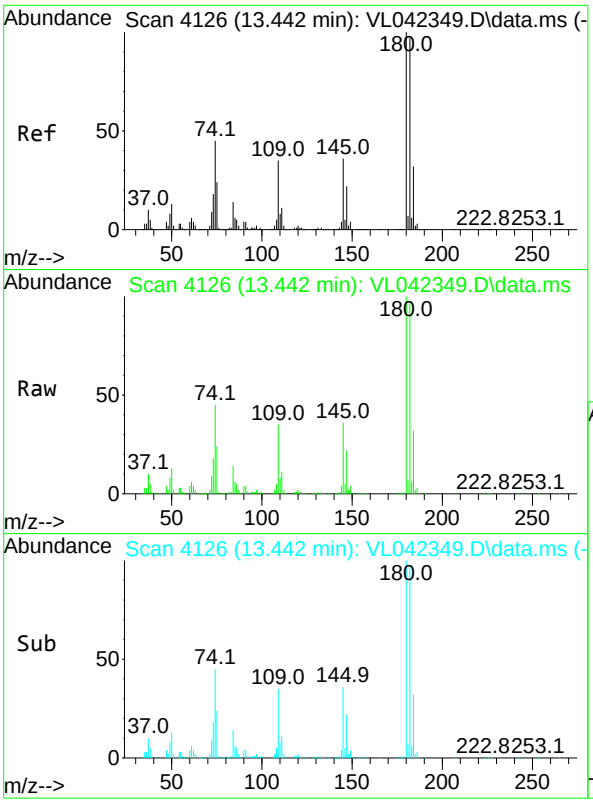


#80
Naphthalene,2-methyl-
Concen: 8.074 ppbv
RT: 14.458 min Scan# 4440
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion:142 Resp: 376995

Ion	Ratio	Lower	Upper
142	100		
141	83.5	66.8	100.2
115	41.8	33.4	50.2

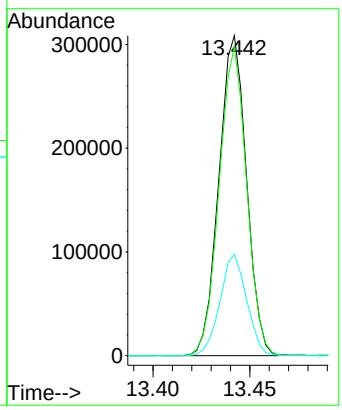




#81
1,2,4-Trichlorobenzene
Concen: 8.702 ppbv
RT: 13.442 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion:180 Resp: 30611

Ion	Ratio	Lower	Upper
180	100		
182	96.0	76.8	115.2
184	30.7	24.6	36.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042350.D
Acq On : 17 Apr 2025 10:17
Operator : SY/MD
Sample : VSTDICC002
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 18 01:26:23 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Fri Apr 18 01:24:29 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.787	49	123206	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.959	114	355918	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.881	117	335603	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.377	95	275715	9.998	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 100.000%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.499	85	45008	2.068	ppbv		95
3) Chlorodifluoromethane	1.476	51	41853	2.019	ppbv		97
4) Chloromethane	1.534	50	17272	2.005	ppbv		93
5) Vinyl Chloride	1.580	62	16979	1.811	ppbv		92
6) Bromomethane	1.667	94	7398	1.821	ppbv	#	80
7) Chloroethane	1.706	64	6889	2.031	ppbv		98
8) Dichlorotetrafluoroethane	1.554	85	38955	2.084	ppbv		98
9) Propene	1.483	41	18671	1.978	ppbv		97
10) Heptane	4.978	43	54438m	2.143	ppbv		
11) Trichlorofluoromethane	1.877	101	43035	2.079	ppbv		99
12) 1,1,2-Trichlorotrifluo...	2.140	101	35415	2.092	ppbv		100
13) Ethanol	1.722	45	3034m	3.933	ppbv		
14) Bromoethene	1.780	108	13049	2.045	ppbv	#	92
15) Acetone	1.835	43	42949	2.129	ppbv		93
16) 1,3-Butadiene	1.609	39	18110	1.912	ppbv		96
17) tert-Butyl alcohol	2.042	59	51829	2.074	ppbv	#	94
18) 1,1-Dichloroethene	2.036	96	15690	1.928	ppbv		87
19) Isopropyl Alcohol	1.887	45	22106	1.973	ppbv	#	38
20) Methylene Chloride	2.062	84	14329	1.814	ppbv	#	82
21) Allyl Chloride	2.098	41	27340	1.963	ppbv		95
22) trans-1,2-Dichloroethene	2.340	96	18142	2.015	ppbv		97
23) Vinyl Acetate	2.463	43	18454	2.260	ppbv	#	91
24) 1,1-Dichloroethane	2.411	63	34077	1.993	ppbv		96
25) Ethyl Acetate	2.835	43	101467	2.040	ppbv		99
26) Hexane	2.826	57	40046	1.990	ppbv		99
27) Carbon Disulfide	2.149	76	43975	2.041	ppbv	#	64
28) Methyl tert-Butyl Ether	2.441	73	27905	2.116	ppbv		97
29) Chloroform	2.848	83	58946	2.072	ppbv		100
30) Cyclohexane	3.858	84	33195	2.048	ppbv		94
31) cis-1,2-Dichloroethene	2.722	61	39249	2.051	ppbv		98
32) 1,1,1-Trichloroethane	3.366	97	61442	2.014	ppbv		99
34) 2-Butanone	2.560	43	58249	2.069	ppbv		100
35) Carbon Tetrachloride	3.761	117	60291	1.872	ppbv		88
36) Benzene	3.658	78	79814	2.079	ppbv		98
37) 1,2-Dichloroethane	3.217	62	47398	2.057	ppbv		100
38) Trichloroethene	4.544	130	31826m	1.891	ppbv		
39) 1,2-Dichloropropane	4.315	63	28806	2.012	ppbv		96
40) 1,4-Dioxane	4.593	88	16536m	2.133	ppbv		
41) Tetrahydrofuran	3.059	42	33298	2.047	ppbv		98
42) Bromodichloromethane	4.489	83	64941	2.025	ppbv		97
43) Methyl Methacrylate	4.881	69	35256	2.046	ppbv		97
44) 2,2,4-Trimethylpentane	4.645	57	139641	2.103	ppbv		99
45) t-1,3-Dichloropropene	6.415	75	36265	2.050	ppbv		94

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042350.D
Acq On : 17 Apr 2025 10:17
Operator : SY/MD
Sample : VSTDICC002
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 18 01:26:23 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Fri Apr 18 01:24:29 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.600	75	45327m	2.096	ppbv	
47) 1,1,2-Trichloroethane	6.590	97	29879	2.049	ppbv	88
48) Dibromochloromethane	7.389	129	53069	2.061	ppbv	100
49) Bromoform	9.483	173	48069	2.135	ppbv	97
50) 4-Methyl-2-Pentanone	5.758	43	102182	2.180	ppbv	99
51) 2-Hexanone	7.441	43	100443	2.375	ppbv	98
52) Tetrachloroethene	8.228	164	27854	1.877	ppbv	96
53) Toluene	6.933	91	97493	2.116	ppbv	98
54) 1,2-Dibromoethane	7.655	107	43153	2.076	ppbv	87
56) 1,1,1,2-Tetrachloroethane	8.924	131	42601	2.097	ppbv	95
57) Chlorobenzene	8.924	112	71685	2.054	ppbv	98
58) Ethyl Benzene	9.357	91	138810	2.088	ppbv	98
59) m/p-Xylene	9.532	91	222542m	4.142	ppbv	
60) o-Xylene	9.963	91	111972	2.076	ppbv	98
61) Styrene	9.872	104	54229	2.106	ppbv	98
62) Isopropylbenzene	10.539	105	163716	2.067	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.963	83	64952	1.853	ppbv	99
64) n-propylbenzene	10.989	120	40956	2.058	ppbv	96
65) tert-Butylbenzene	11.532	119	155401	2.135	ppbv	92
66) Benzyl Chloride	11.616	91	17300	2.163	ppbv	98
67) sec-Butylbenzene	11.769	105	218327	2.156	ppbv	100
69) p-Isopropyltoluene	11.927	119	188657	2.145	ppbv	99
70) n-Butylbenzene	12.283	91	198221	2.164	ppbv	99
71) 2-Chlorotoluene	10.901	91	128858	2.075	ppbv	98
72) 4-Ethyltoluene	11.124	105	137872	2.091	ppbv	97
73) 1,3,5-Trimethylbenzene	11.205	105	123580	2.123	ppbv	98
74) 1,2,4-Trimethylbenzene	11.539	105	145510	2.140	ppbv	92
75) 1,3-Dichlorobenzene	11.607	146	75082	2.124	ppbv	98
76) 1,4-Dichlorobenzene	11.671	146	75323	2.120	ppbv	99
77) 1,2-Dichlorobenzene	11.947	146	74786	2.176	ppbv	98
78) Hexachloro-1,3-Butadiene	13.882	225	76158	2.194	ppbv	100
79) Naphthalene	13.513	128	195233	2.401	ppbv	99
80) Naphthalene,2-methyl-	14.458	142	119262	2.574	ppbv	99
81) 1,2,4-Trichlorobenzene	13.442	180	82156	2.353	ppbv	99

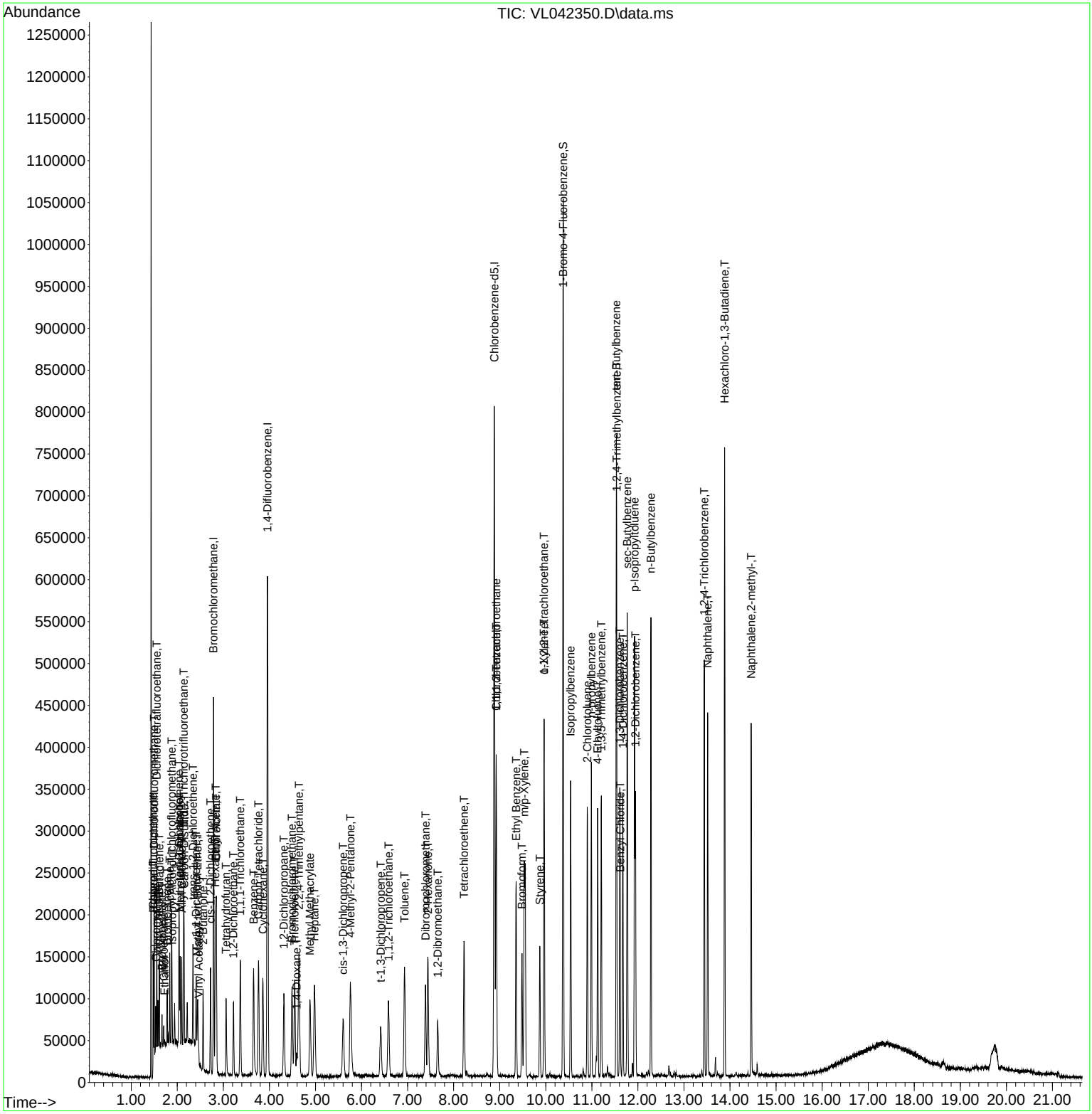
(#) = qualifier out of range (m) = manual integration (+) = signals summed

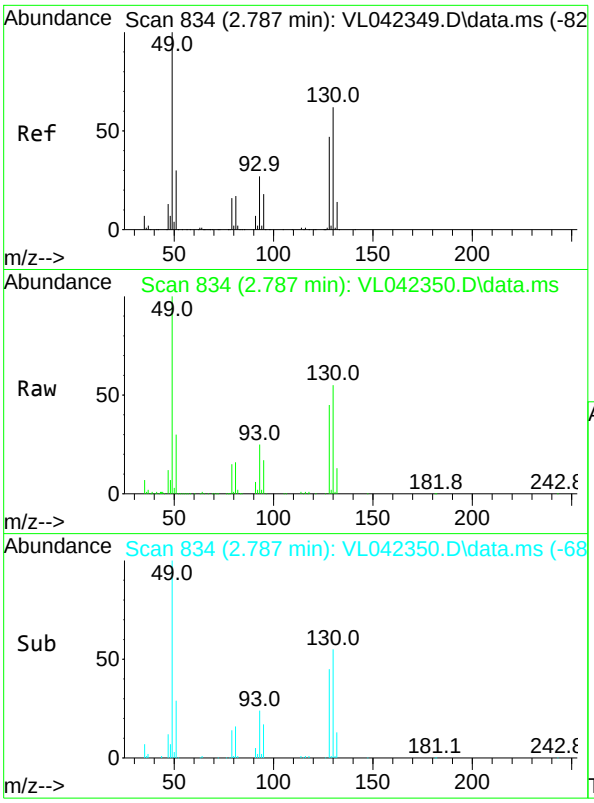
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042350.D
Acq On : 17 Apr 2025 10:17
Operator : SY/MD
Sample : VSTDICC002
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 18 01:26:23 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Apr 18 01:24:29 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

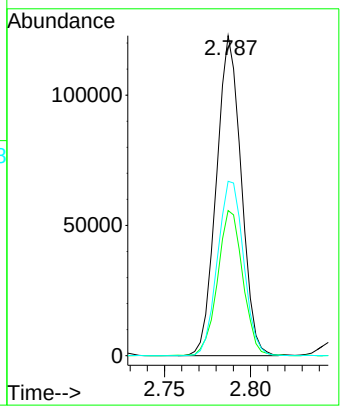




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 49 Resp: 12320

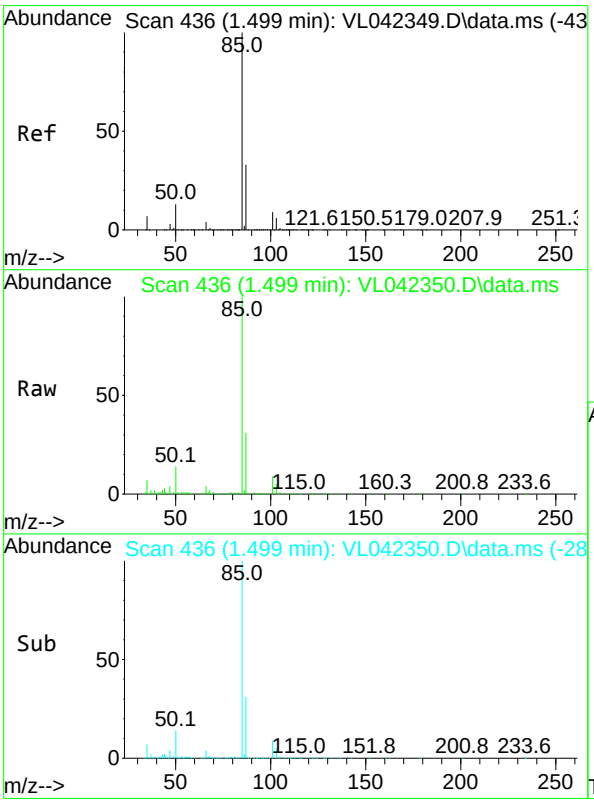
Ion	Ratio	Lower	Upper
49	100		
128	46.2	22.8	68.4
130	57.3	29.3	88.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

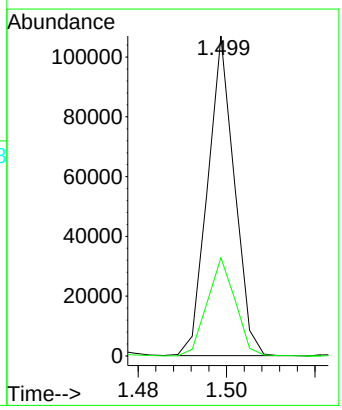
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

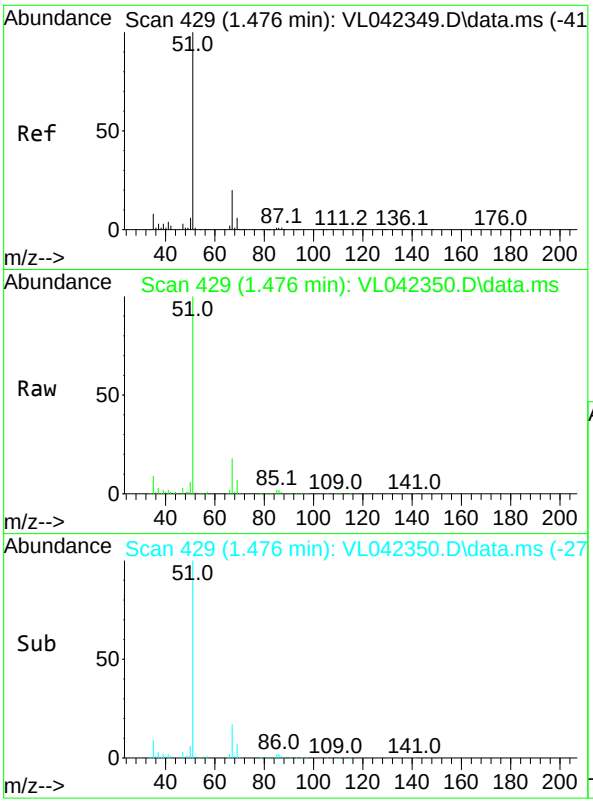


#2
Dichlorodifluoromethane
Concen: 2.068 ppbv
RT: 1.499 min Scan# 436
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 85 Resp: 45008

Ion	Ratio	Lower	Upper
85	100		
87	30.6	26.6	39.8

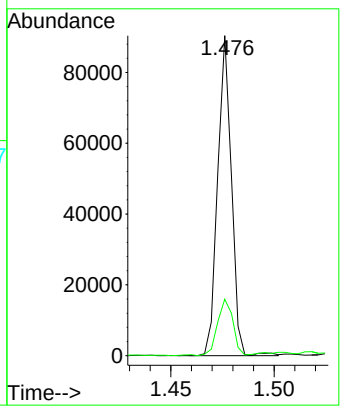




#3
Chlorodifluoromethane
Concen: 2.019 ppbv
RT: 1.476 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 51 Resp: 4185

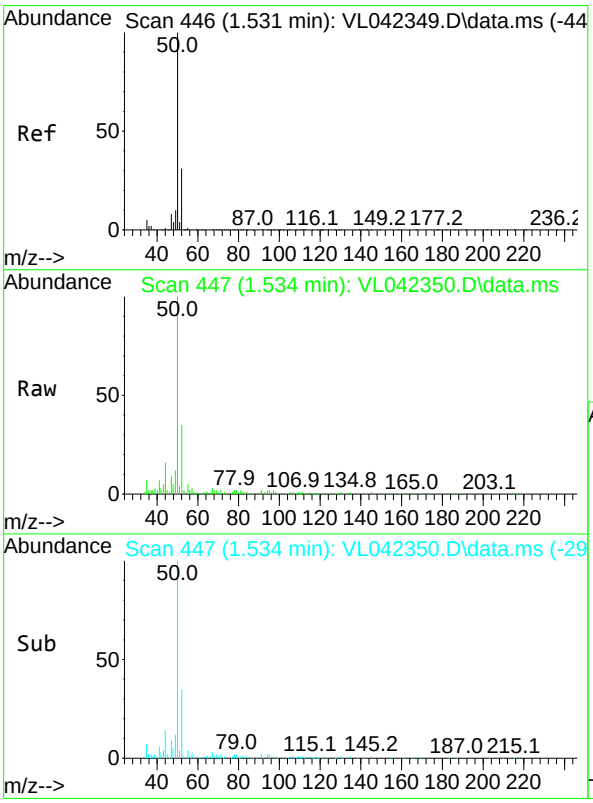
Ion	Ratio	Lower	Upper
51	100		
67	21.7	16.2	24.4



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

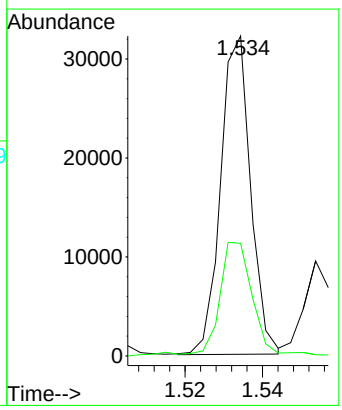
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

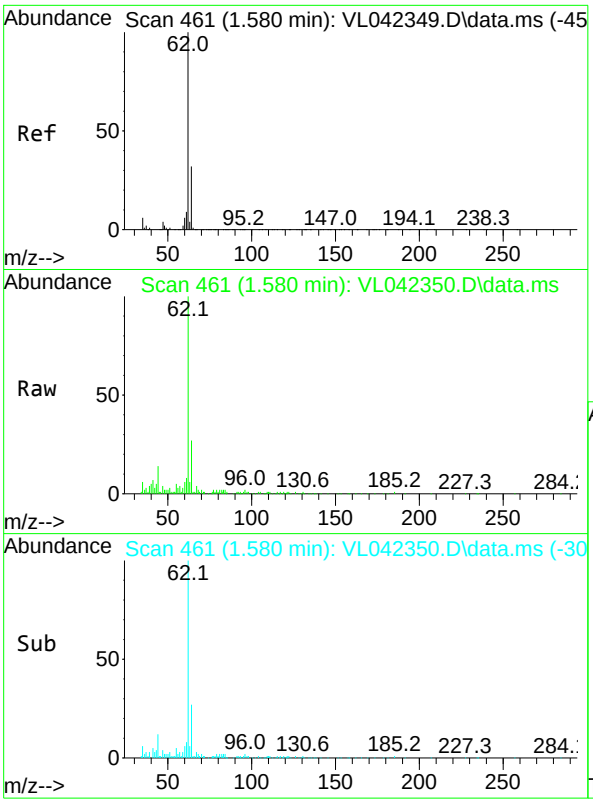


#4
Chloromethane
Concen: 2.005 ppbv
RT: 1.534 min Scan# 447
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 50 Resp: 17272

Ion	Ratio	Lower	Upper
50	100		
52	34.9	24.7	37.1

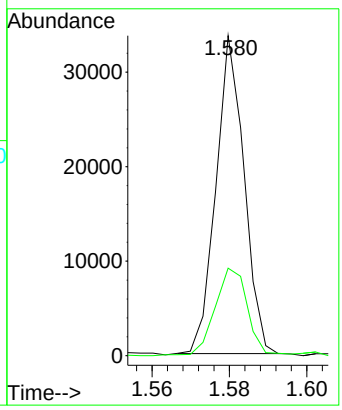




#5
Vinyl Chloride
Concen: 1.811 ppbv
RT: 1.580 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 62 Resp: 1697

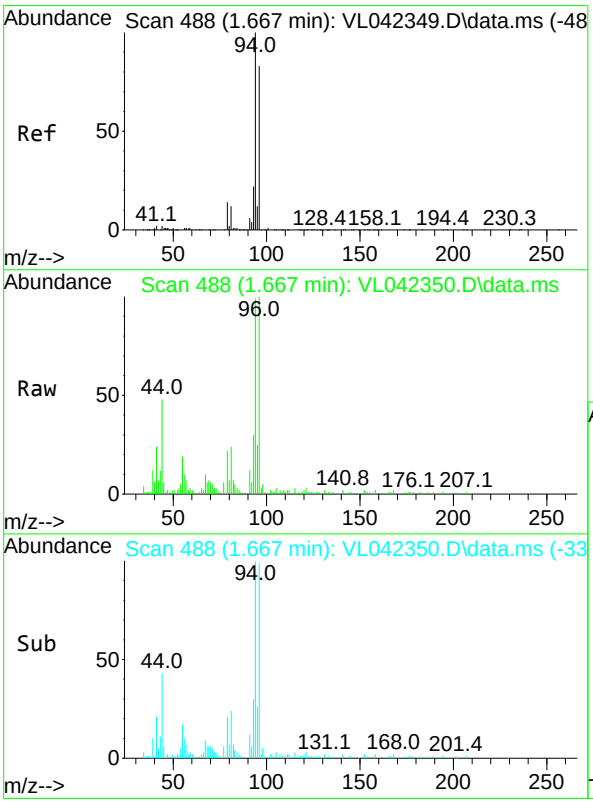
Ion	Ratio	Lower	Upper
62	100		
64	27.2	25.4	38.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

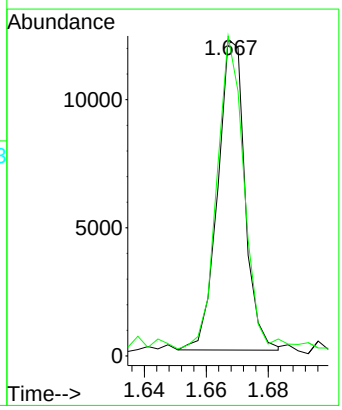
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

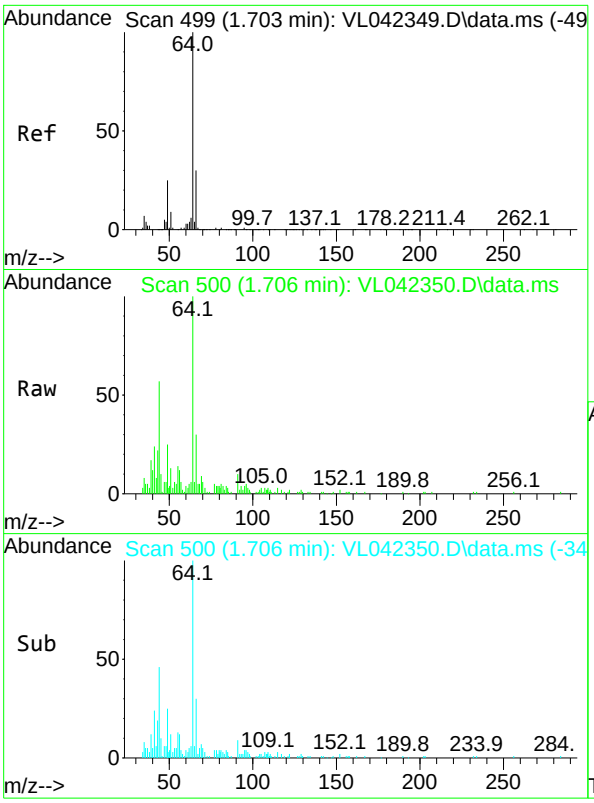


#6
Bromomethane
Concen: 1.821 ppbv
RT: 1.667 min Scan# 488
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 94 Resp: 7398

Ion	Ratio	Lower	Upper
94	100		
96	100.8	66.2	99.2#

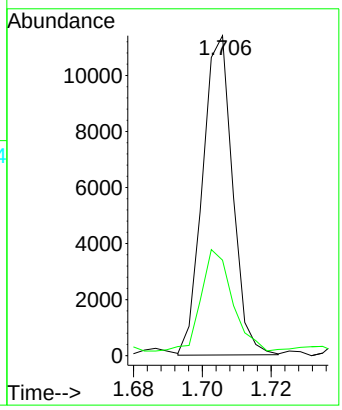




#7
Chloroethane
Concen: 2.031 ppbv
RT: 1.706 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 64 Resp: 688

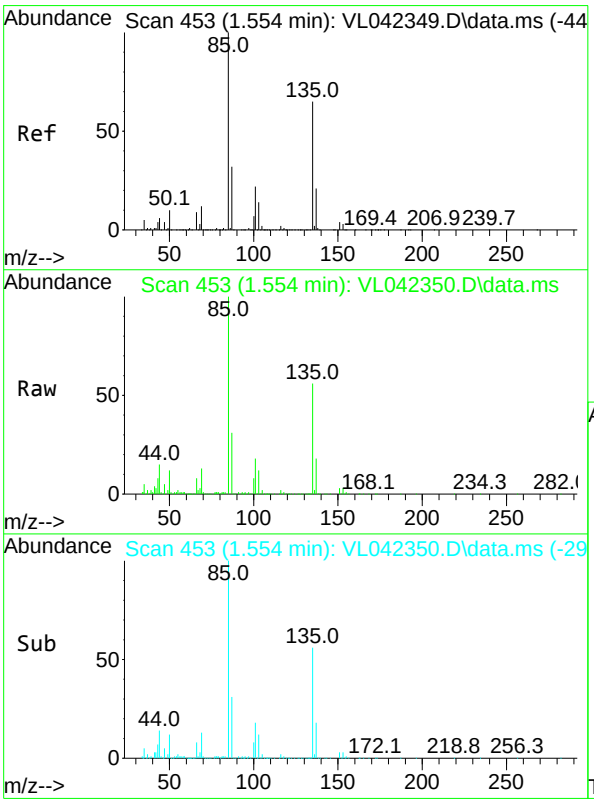
Ion	Ratio	Lower	Upper
64	100		
66	29.8	24.6	37.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
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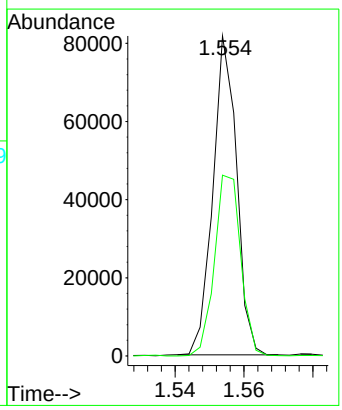
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

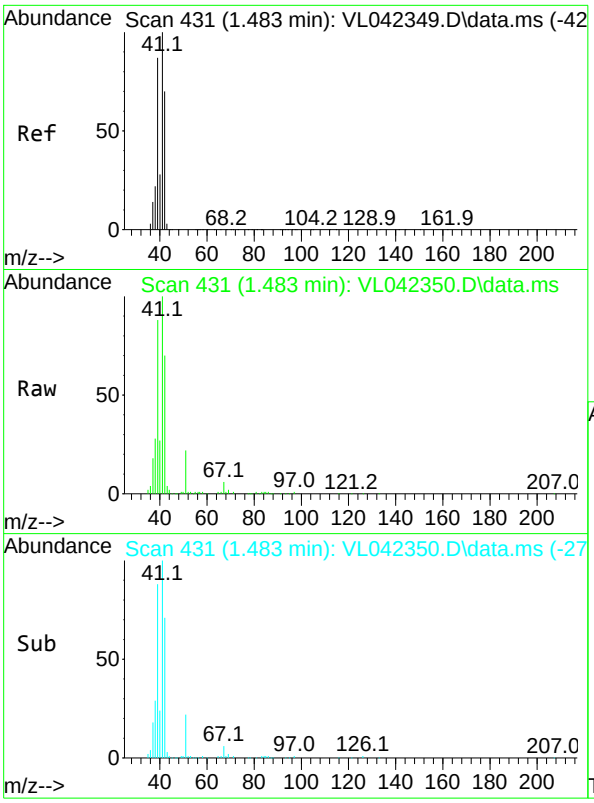


#8
Dichlorotetrafluoroethane
Concen: 2.084 ppbv
RT: 1.554 min Scan# 453
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 85 Resp: 38955

Ion	Ratio	Lower	Upper
85	100		
135	63.3	52.2	78.2





#9
Propene
Concen: 1.978 ppbv
RT: 1.483 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

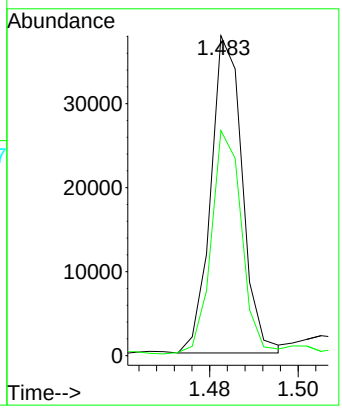
Tgt Ion: 41 Resp: 1867

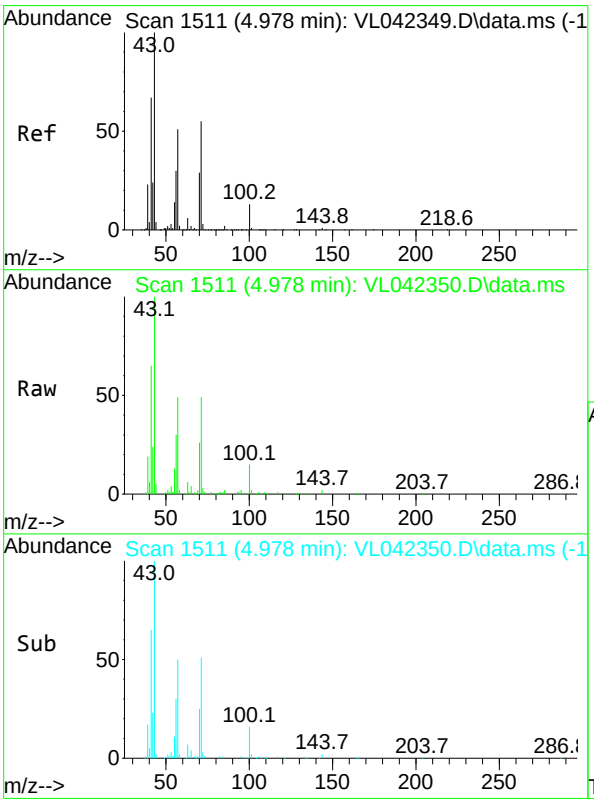
Ion	Ratio	Lower	Upper
41	100		
42	72.7	56.2	84.4

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

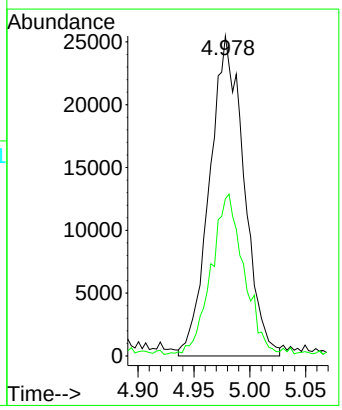


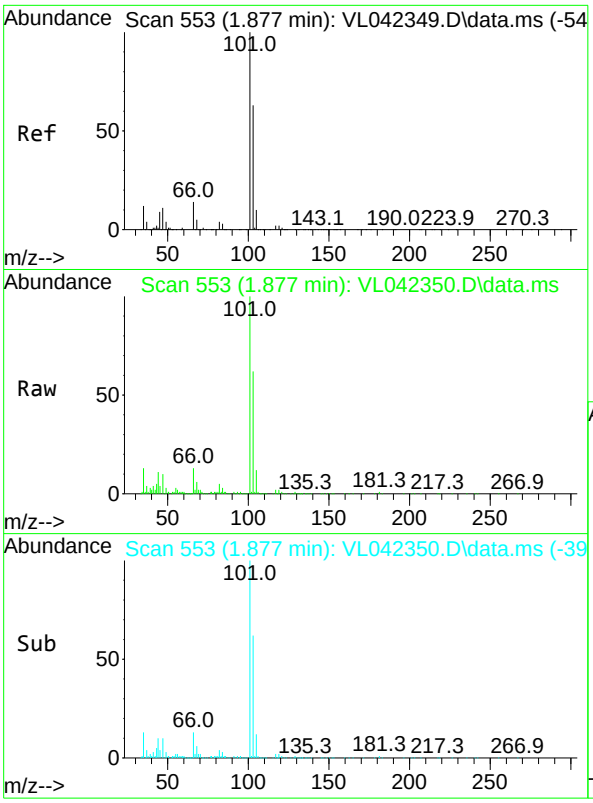


#10
Heptane
Concen: 2.143 ppbv m
RT: 4.978 min Scan# 1511
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 43 Resp: 54438

Ion	Ratio	Lower	Upper
43	100		
57	48.3	39.9	59.9

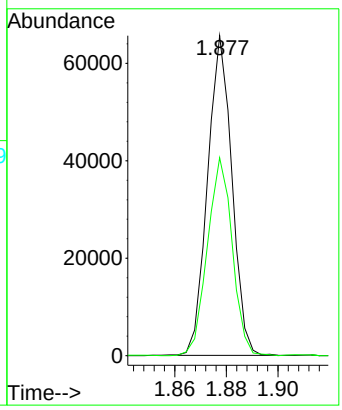




#11
Trichlorofluoromethane
Concen: 2.079 ppbv
RT: 1.877 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion:101 Resp: 4303

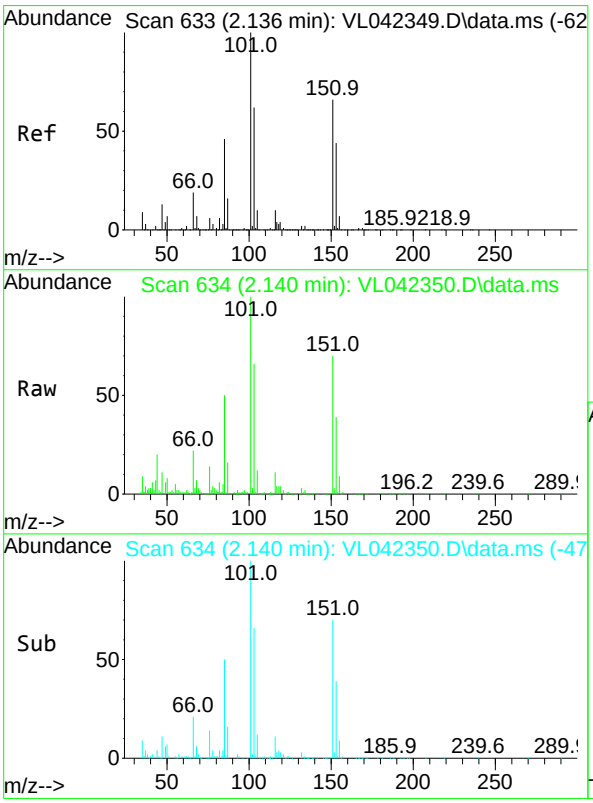
Ion	Ratio	Lower	Upper
101	100		
103	61.9	50.1	75.1



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

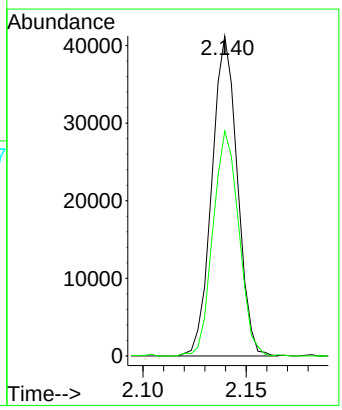
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

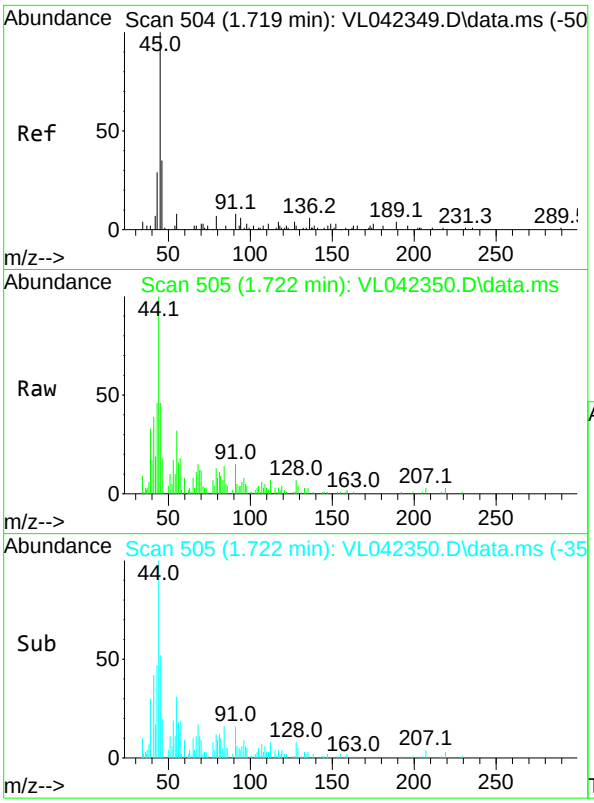


#12
1,1,2-Trichlorotrifluoroethane
Concen: 2.092 ppbv
RT: 2.140 min Scan# 634
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion:101 Resp: 35415

Ion	Ratio	Lower	Upper
101	100		
151	71.5	57.0	85.6

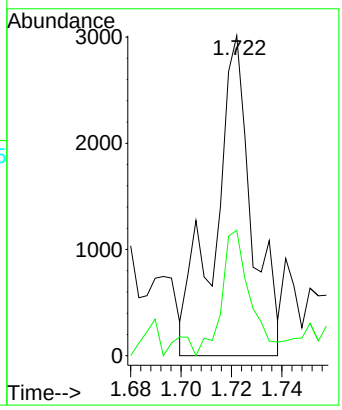




#13
Ethanol
Concen: 3.933 ppbv m
RT: 1.722 min Scan# 5(
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 45 Resp: 303

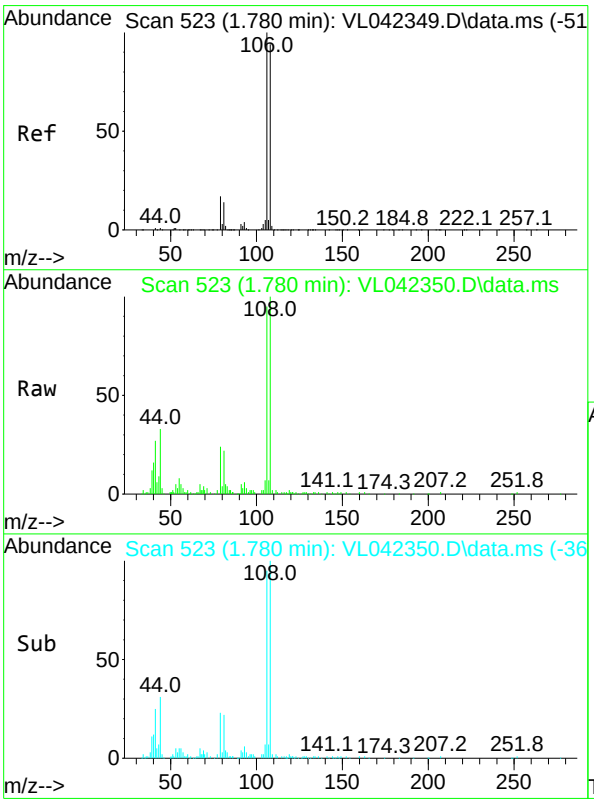
Ion	Ratio	Lower	Upper
45	100		
46	39.3	21.9	87.7



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations APPROVED

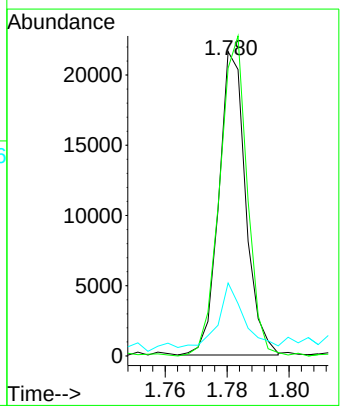
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

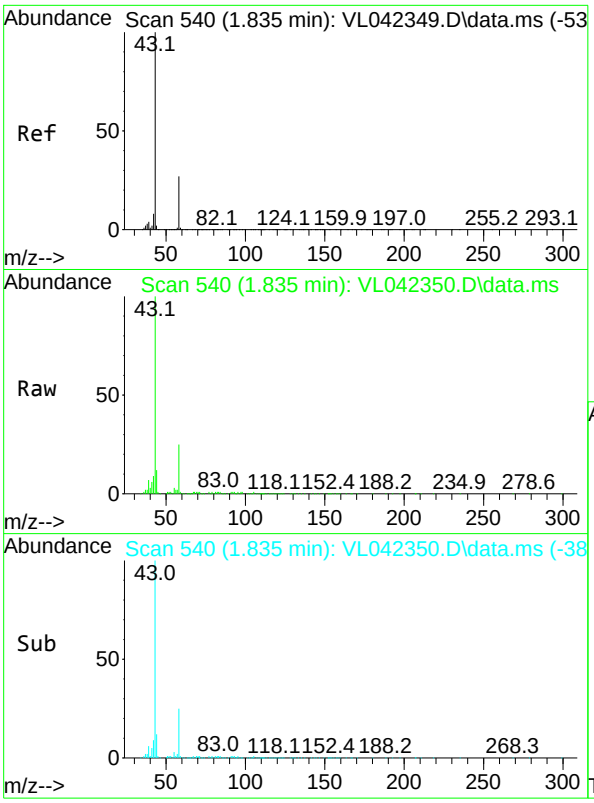


#14
Bromoethene
Concen: 2.045 ppbv
RT: 1.780 min Scan# 523
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion:108 Resp: 13049

Ion	Ratio	Lower	Upper
108	100		
106	110.2	85.9	128.9
79	34.0	13.9	20.9#

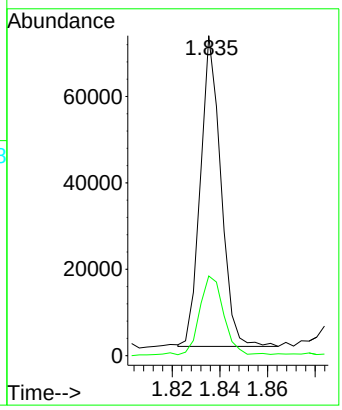




#15
Acetone
Concen: 2.129 ppbv
RT: 1.835 min Scan# 54
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 43 Resp: 4294

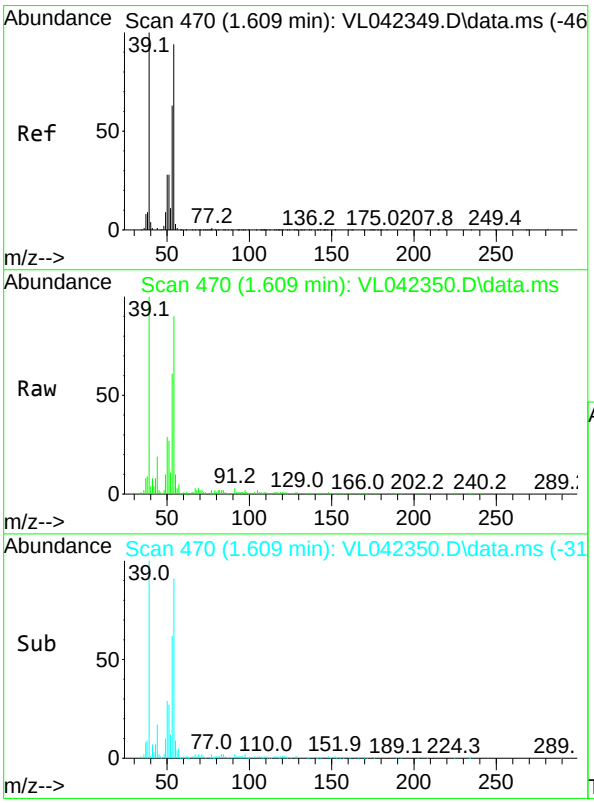
Ion	Ratio	Lower	Upper
43	100		
58	31.4	22.4	33.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

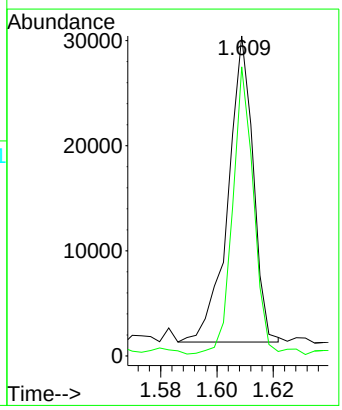
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

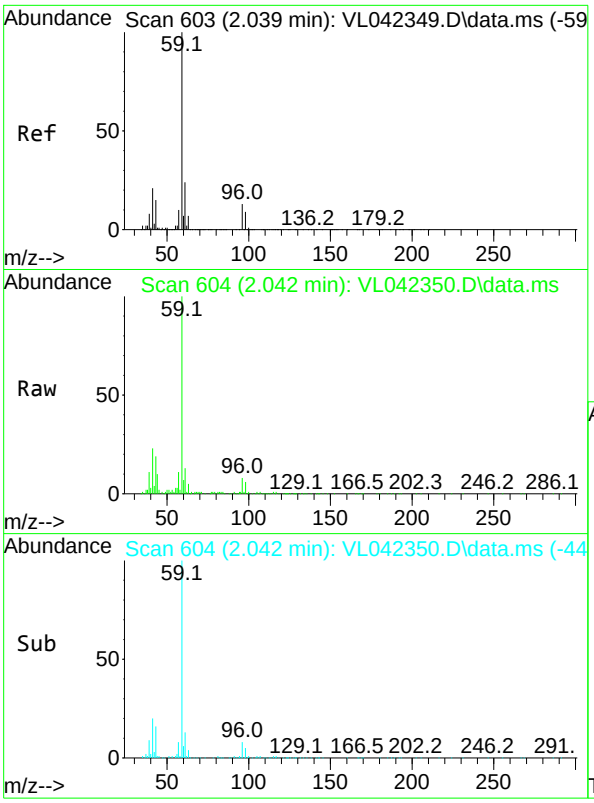


#16
1,3-Butadiene
Concen: 1.912 ppbv
RT: 1.609 min Scan# 470
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 39 Resp: 18110

Ion	Ratio	Lower	Upper
39	100		
54	77.2	64.9	97.3

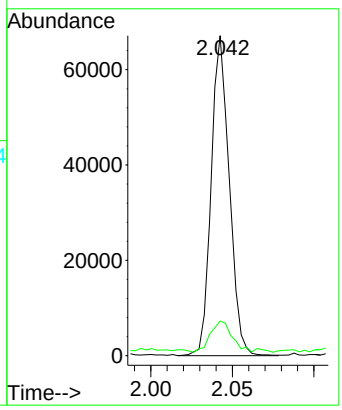




#17
tert-Butyl alcohol
Concen: 2.074 ppbv
RT: 2.042 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 59 Resp: 5182

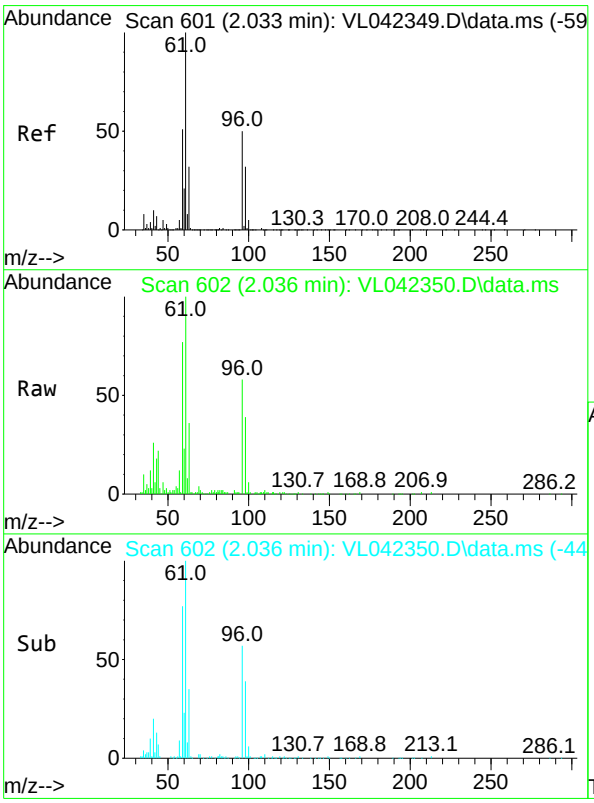
Ion	Ratio	Lower	Upper
59	100		
57	13.2	8.7	13.1



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

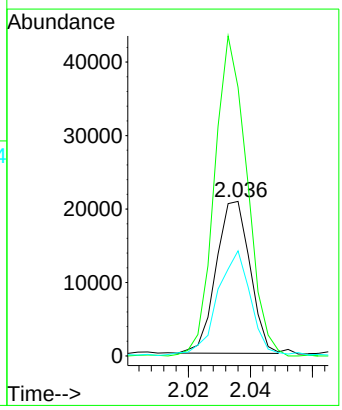
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

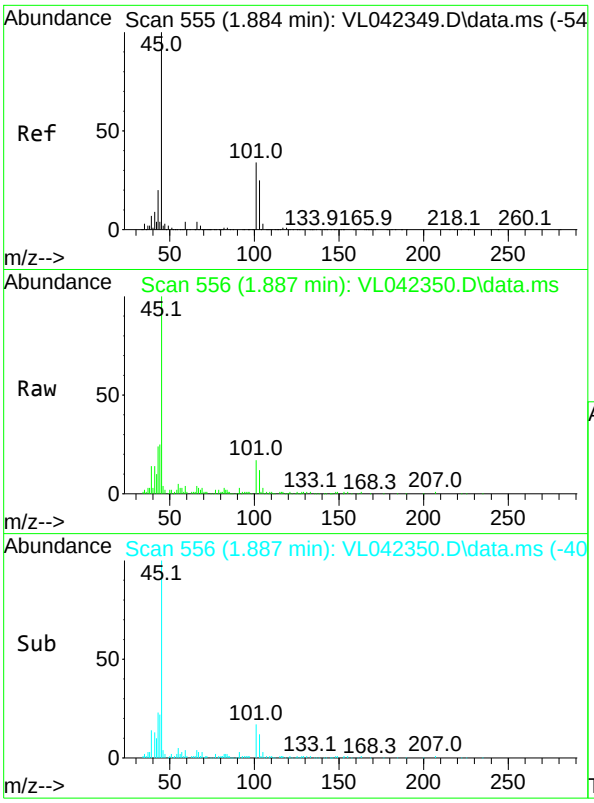


#18
1,1-Dichloroethene
Concen: 1.928 ppbv
RT: 2.036 min Scan# 602
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 96 Resp: 15690

Ion	Ratio	Lower	Upper
96	100		
61	176.1	160.2	240.2
98	67.2	51.0	76.4

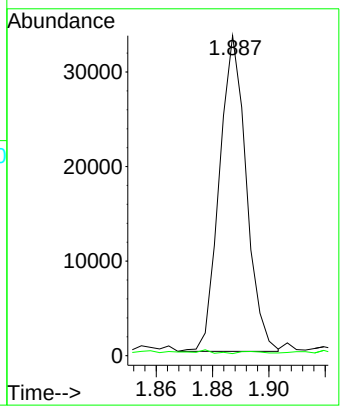




#19
Isopropyl Alcohol
Concen: 1.973 ppbv
RT: 1.887 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 45 Resp: 2210

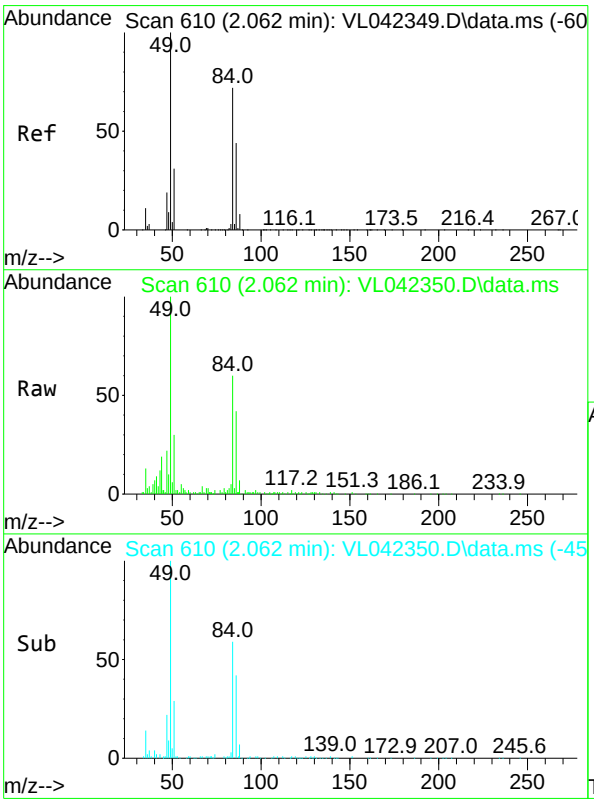
Ion	Ratio	Lower	Upper
45	100		
58	3.6	34.5	51.7#



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

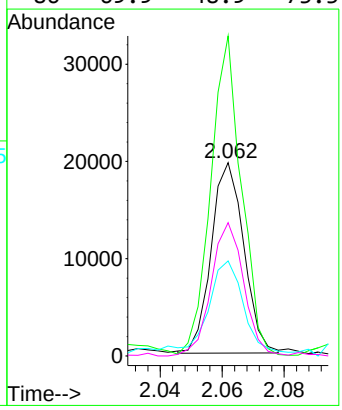
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

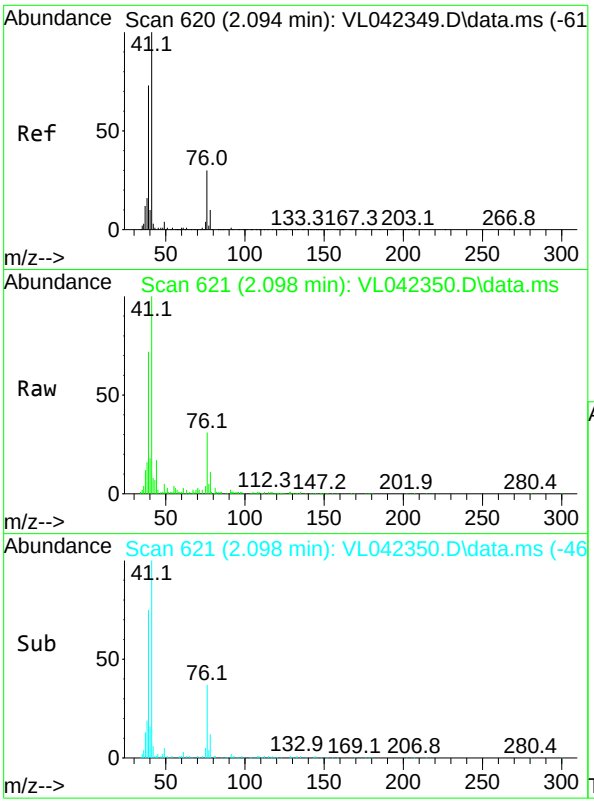


#20
Methylene Chloride
Concen: 1.814 ppbv
RT: 2.062 min Scan# 610
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 84 Resp: 14329

Ion	Ratio	Lower	Upper
84	100		
49	169.1	111.6	167.4#
51	47.9	35.1	52.7
86	69.9	48.9	73.3

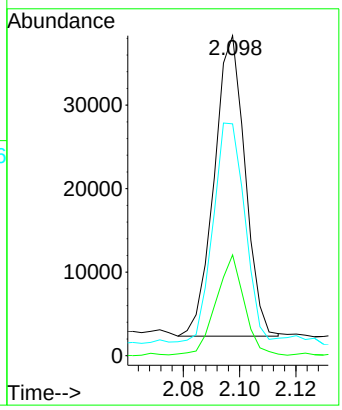




#21
Allyl Chloride
Concen: 1.963 ppbv
RT: 2.098 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 41 Resp: 2734

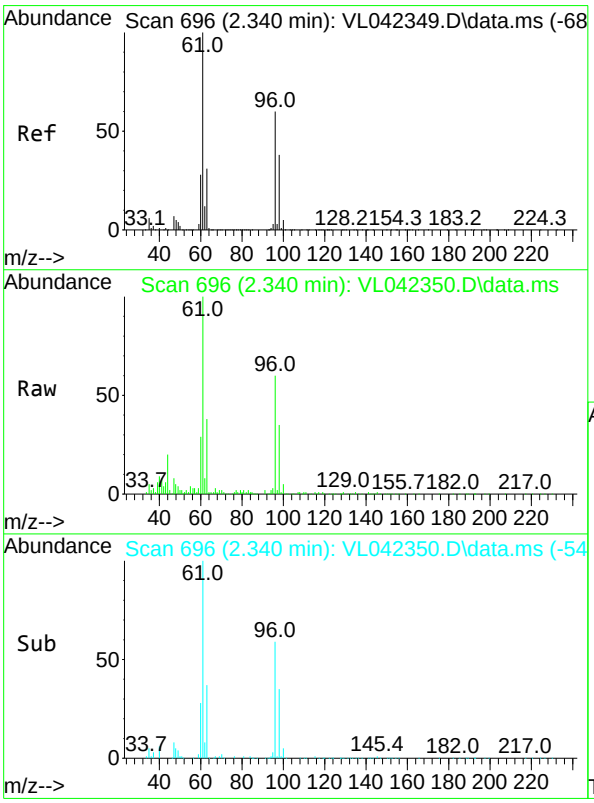
Ion	Ratio	Lower	Upper
41	100		
76	31.9	24.8	37.2
39	81.2	60.6	90.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

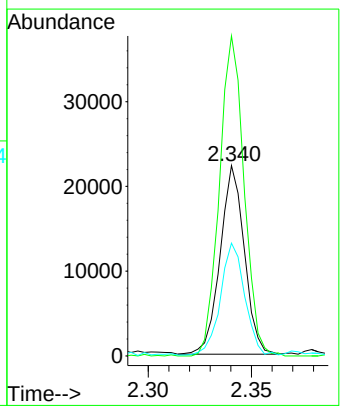
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

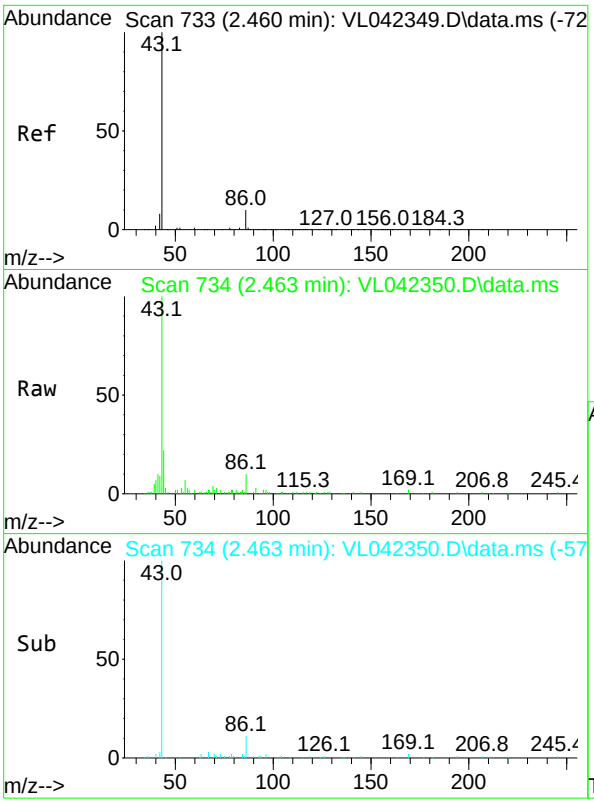


#22
trans-1,2-Dichloroethene
Concen: 2.015 ppbv
RT: 2.340 min Scan# 696
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 96 Resp: 18142

Ion	Ratio	Lower	Upper
96	100		
61	169.6	133.7	200.5
98	59.3	50.3	75.5

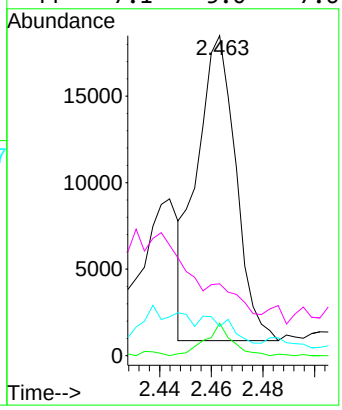




#23
Vinyl Acetate
Concen: 2.260 ppbv
RT: 2.463 min Scan# 7
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 43 Resp: 1845

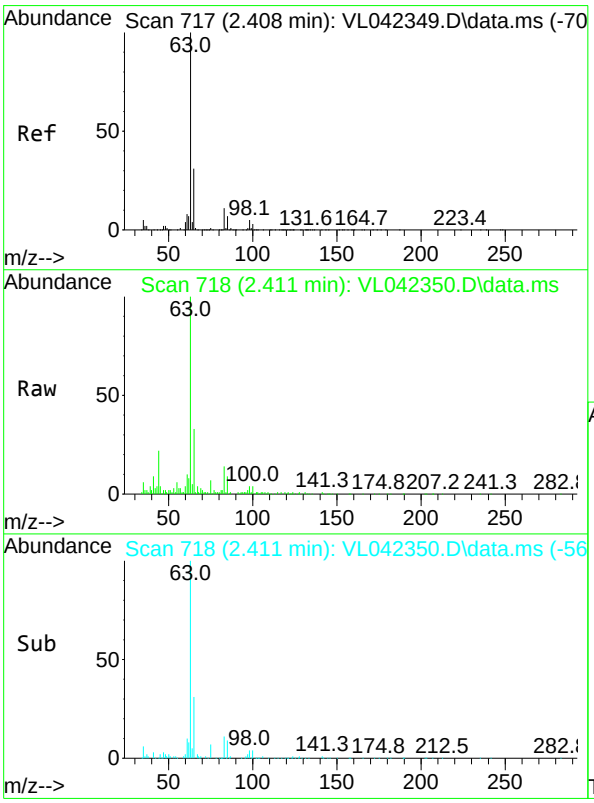
Ion	Ratio	Lower	Upper
43	100		
86	10.2	6.5	9.7#
42	3.7	7.8	11.8#
44	7.1	5.0	7.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

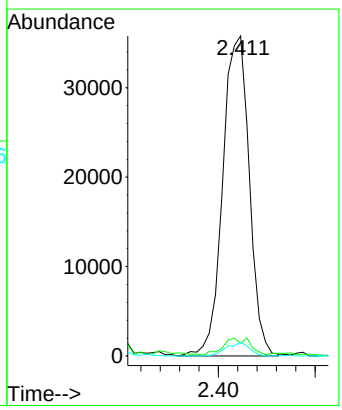
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

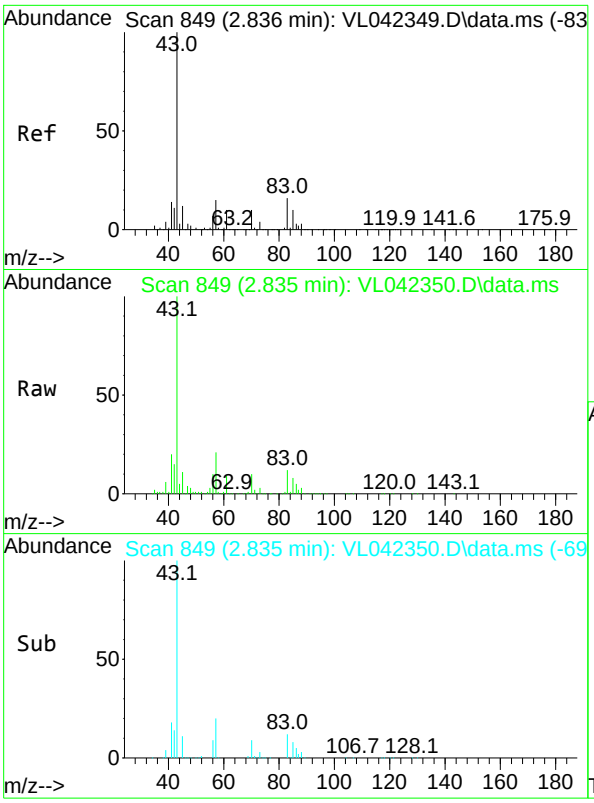


#24
1,1-Dichloroethane
Concen: 1.993 ppbv
RT: 2.411 min Scan# 718
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 63 Resp: 34077

Ion	Ratio	Lower	Upper
63	100		
98	3.1	2.3	6.8
100	4.2	1.6	4.8

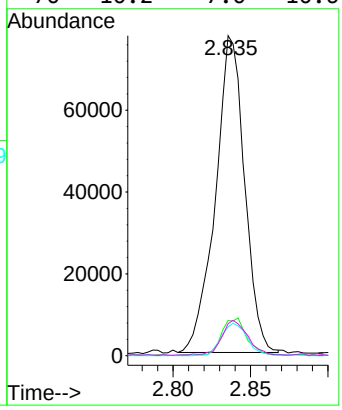




#25
Ethyl Acetate
Concen: 2.040 ppbv
RT: 2.835 min Scan# 84
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 43 Resp: 10146

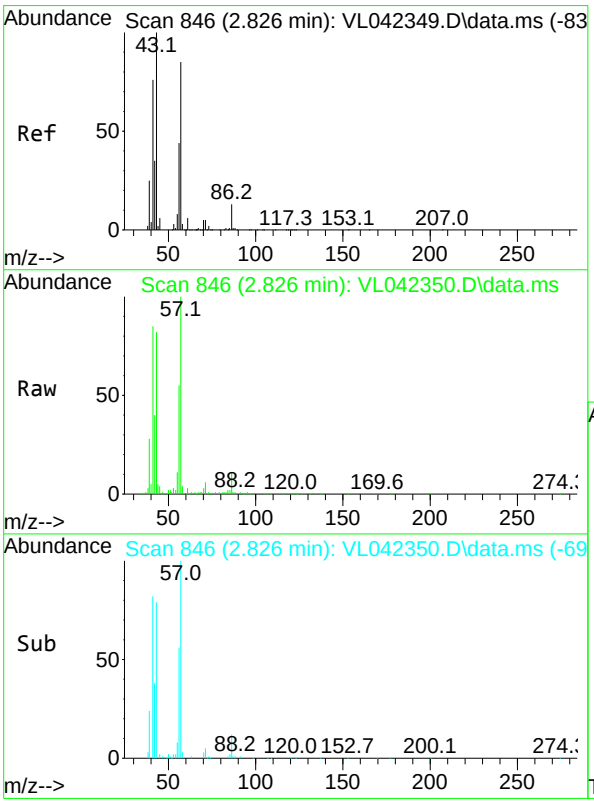
Ion	Ratio	Lower	Upper
43	100		
45	10.4	8.3	12.5
61	9.2	7.3	10.9
70	10.2	7.0	10.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

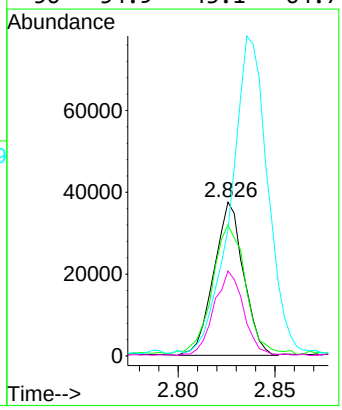
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

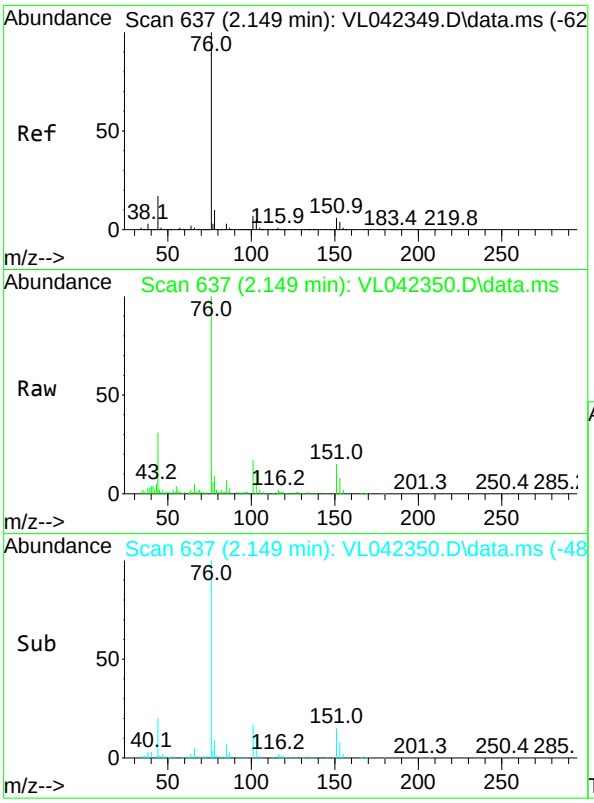


#26
Hexane
Concen: 1.990 ppbv
RT: 2.826 min Scan# 846
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 57 Resp: 40046

Ion	Ratio	Lower	Upper
57	100		
41	94.1	77.9	116.9
43	260.7	208.4	312.6
56	54.9	43.1	64.7

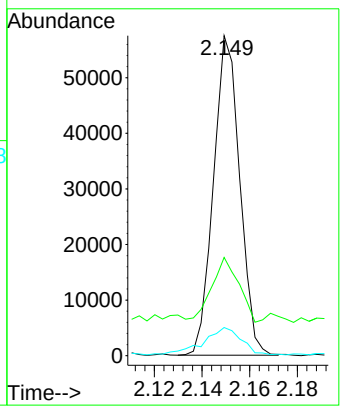




#27
Carbon Disulfide
Concen: 2.041 ppbv
RT: 2.149 min Scan# 6
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 76 Resp: 4397

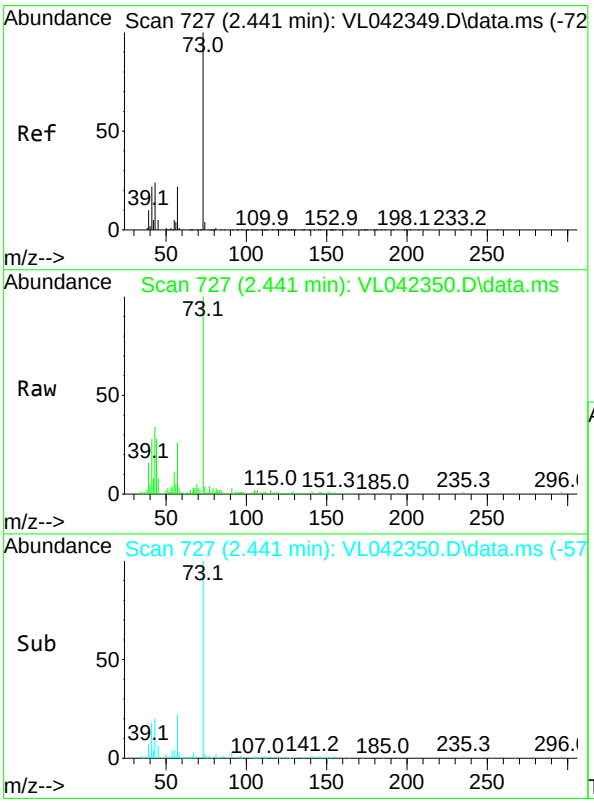
Ion	Ratio	Lower	Upper
76	100		
44	44.3	15.5	23.3#
78	13.6	9.3	13.9



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
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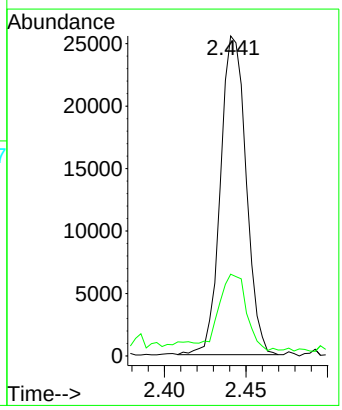
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

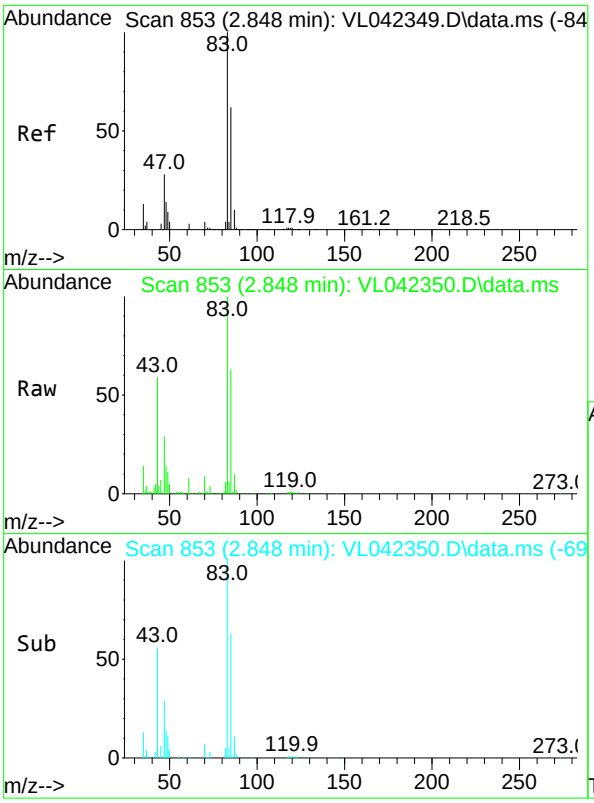


#28
Methyl tert-Butyl Ether
Concen: 2.116 ppbv
RT: 2.441 min Scan# 727
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 73 Resp: 27905

Ion	Ratio	Lower	Upper
73	100		
57	28.1	21.3	31.9

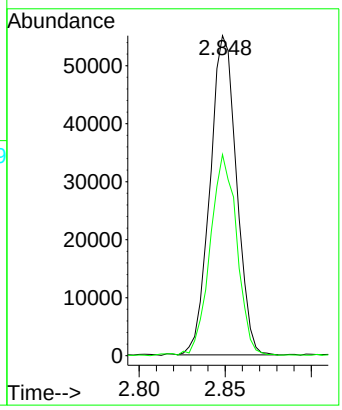




#29
Chloroform
Concen: 2.072 ppbv
RT: 2.848 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 83 Resp: 5894

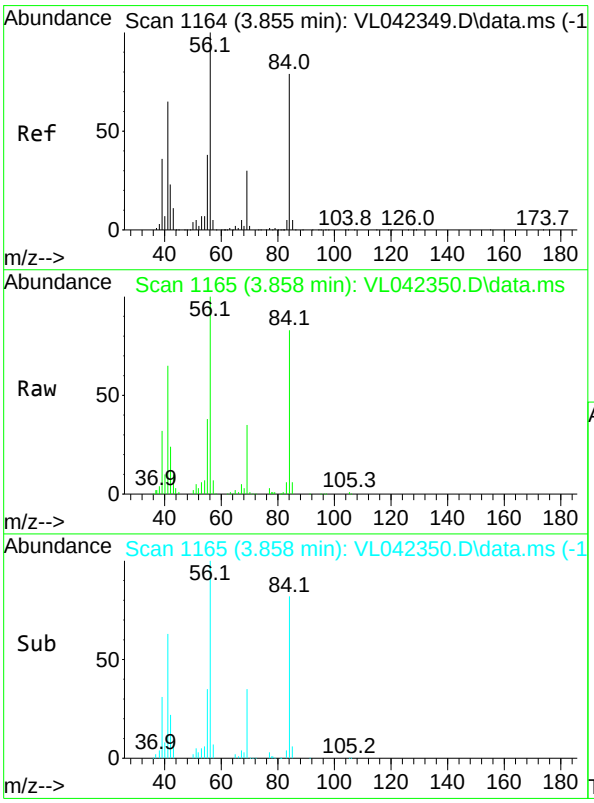
Ion	Ratio	Lower	Upper
83	100		
85	62.9	50.0	75.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

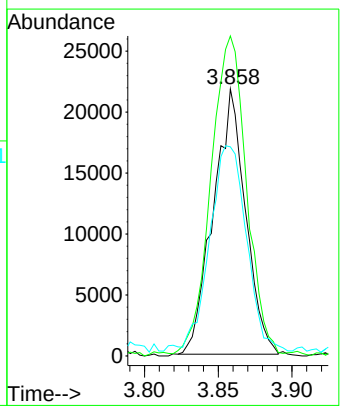
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

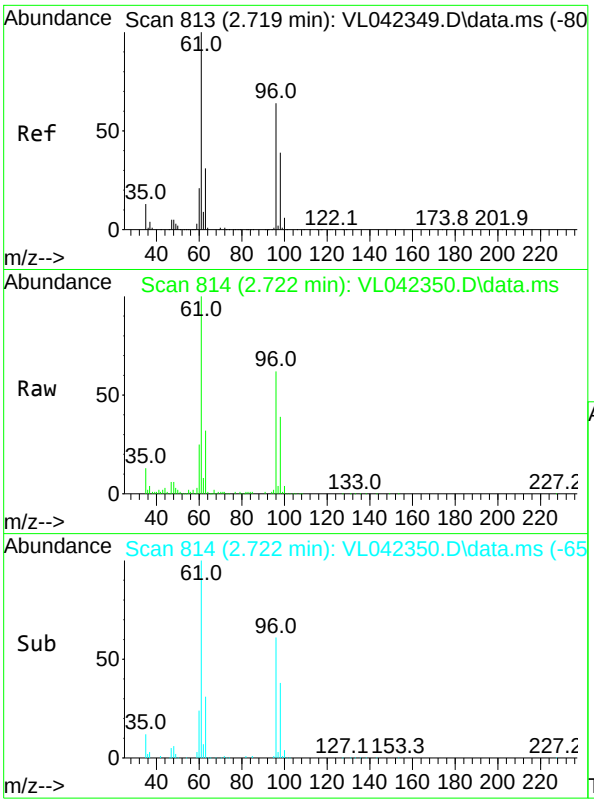


#30
Cyclohexane
Concen: 2.048 ppbv
RT: 3.858 min Scan# 1165
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 84 Resp: 33195

Ion	Ratio	Lower	Upper
84	100		
56	134.5	101.0	151.4
41	88.1	67.4	101.0

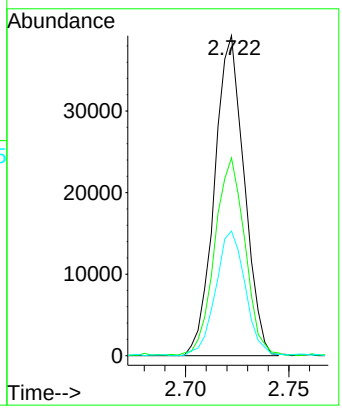




#31
cis-1,2-Dichloroethene
Concen: 2.051 ppbv
RT: 2.722 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 61 Resp: 3924

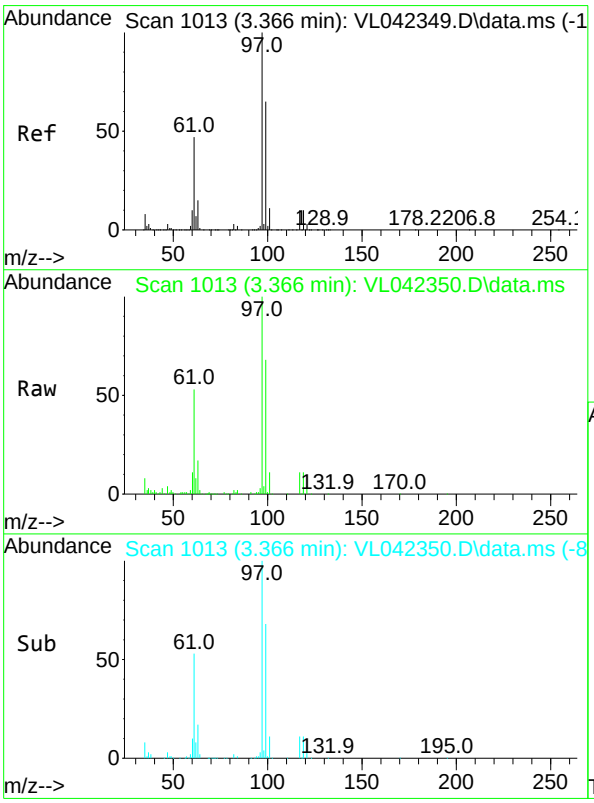
Ion	Ratio	Lower	Upper
61	100		
96	61.6	50.8	76.2
98	39.0	30.9	46.3



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

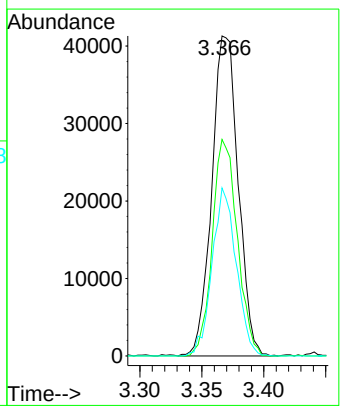
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

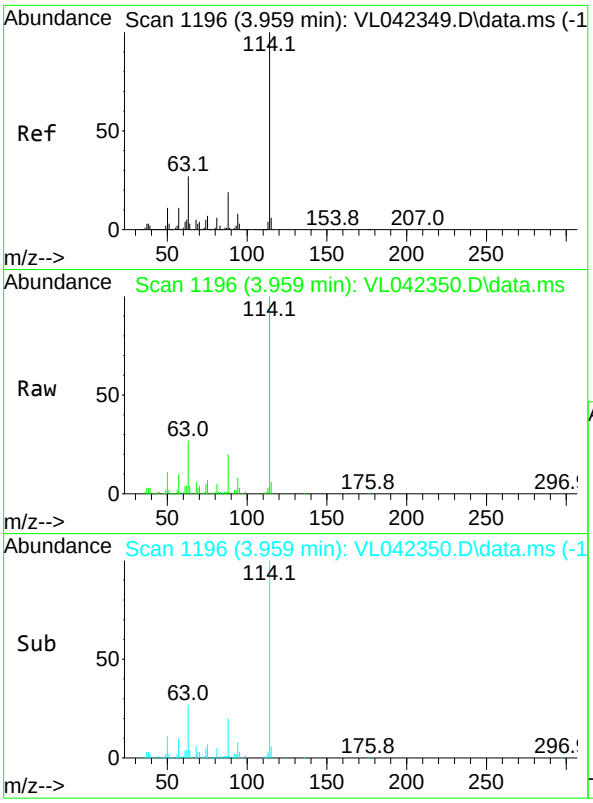


#32
1,1,1-Trichloroethane
Concen: 2.014 ppbv
RT: 3.366 min Scan# 1013
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 97 Resp: 61442

Ion	Ratio	Lower	Upper
97	100		
99	64.0	51.0	76.4
61	48.0	38.8	58.2

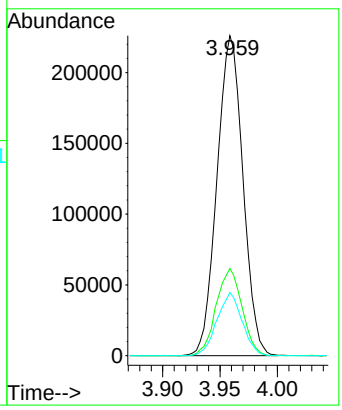




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.959 min Scan# 1
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion:114 Resp: 35591

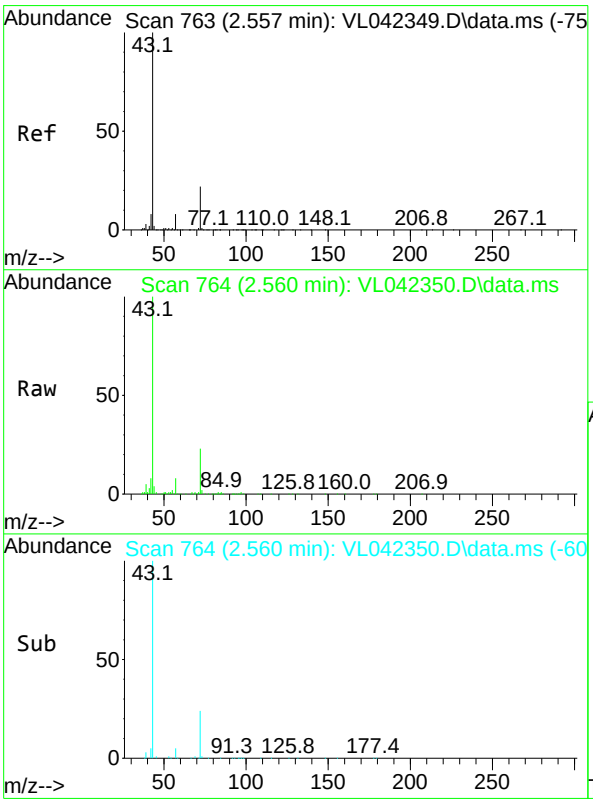
Ion	Ratio	Lower	Upper
114	100		
63	27.1	21.8	32.6
88	19.0	15.5	23.3



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

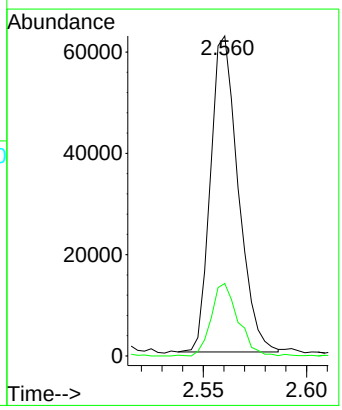
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

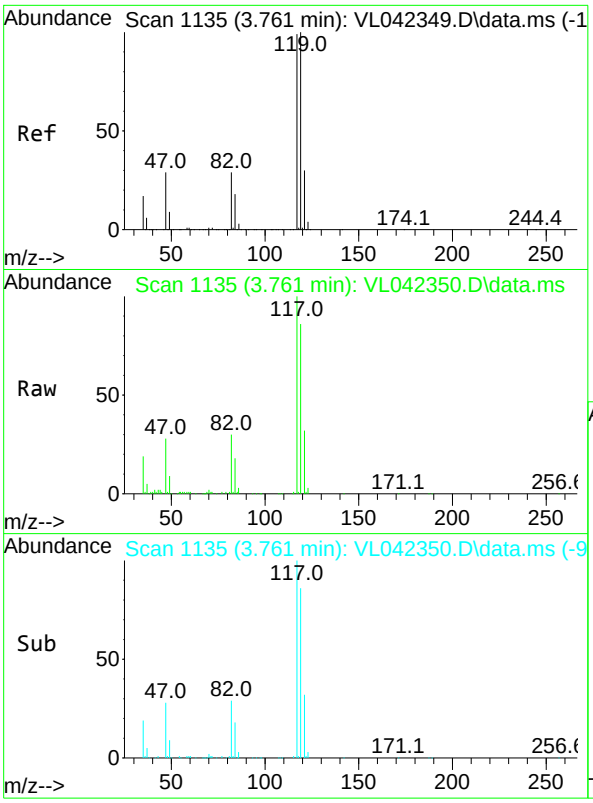


#34
2-Butanone
Concen: 2.069 ppbv
RT: 2.560 min Scan# 764
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 43 Resp: 58249

Ion	Ratio	Lower	Upper
43	100		
72	22.5	18.2	27.2

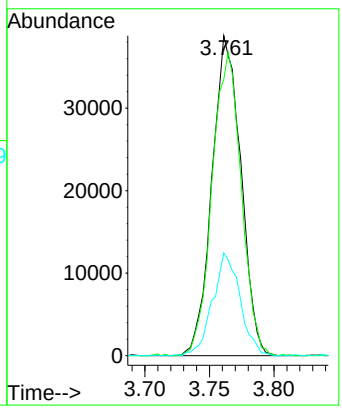




#35
Carbon Tetrachloride
Concen: 1.872 ppbv
RT: 3.761 min Scan# 1
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion:117 Resp: 6029

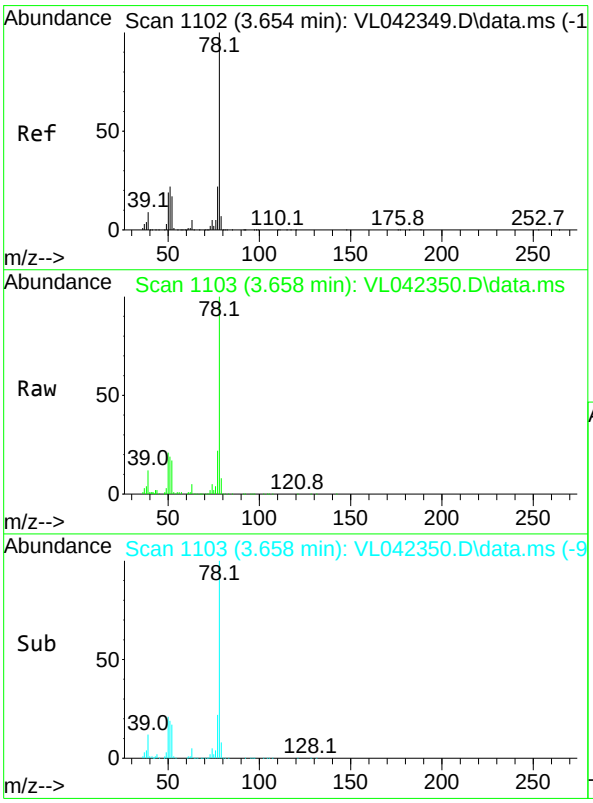
Ion	Ratio	Lower	Upper
117	100		
119	86.4	80.5	120.7
121	32.1	24.2	36.2



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

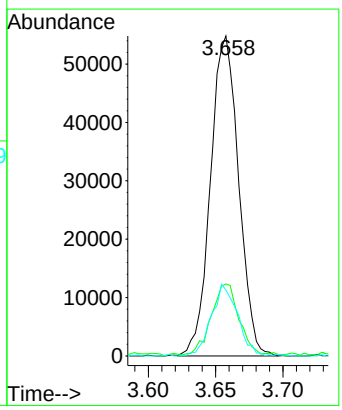
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

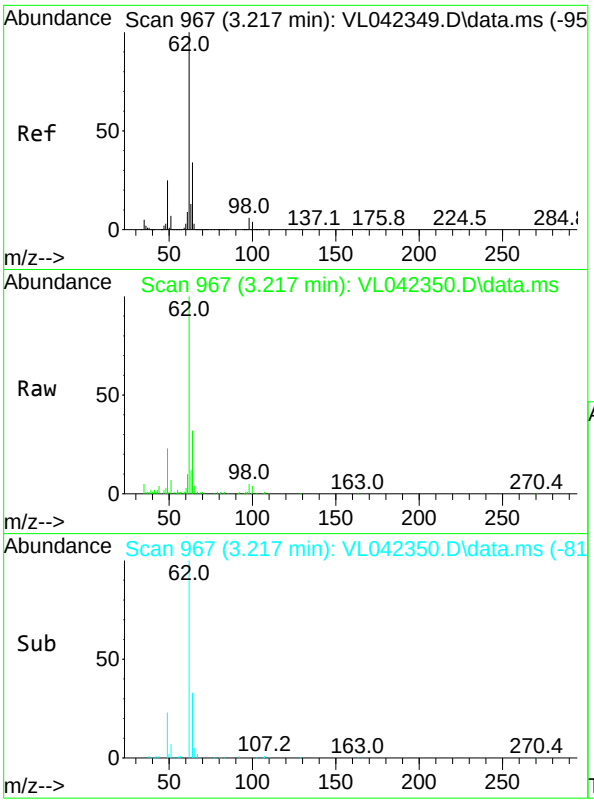


#36
Benzene
Concen: 2.079 ppbv
RT: 3.658 min Scan# 1103
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 78 Resp: 79814

Ion	Ratio	Lower	Upper
78	100		
77	22.0	17.4	26.0
50	20.6	15.5	23.3





#37
1,2-Dichloroethane
Concen: 2.057 ppbv
RT: 3.217 min Scan# 9
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

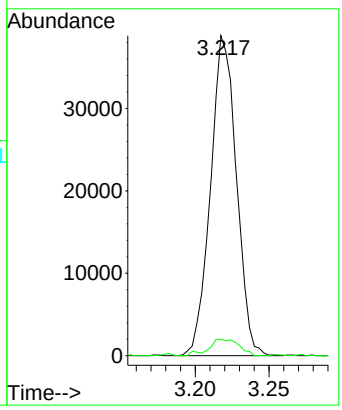
Tgt Ion: 62 Resp: 4739

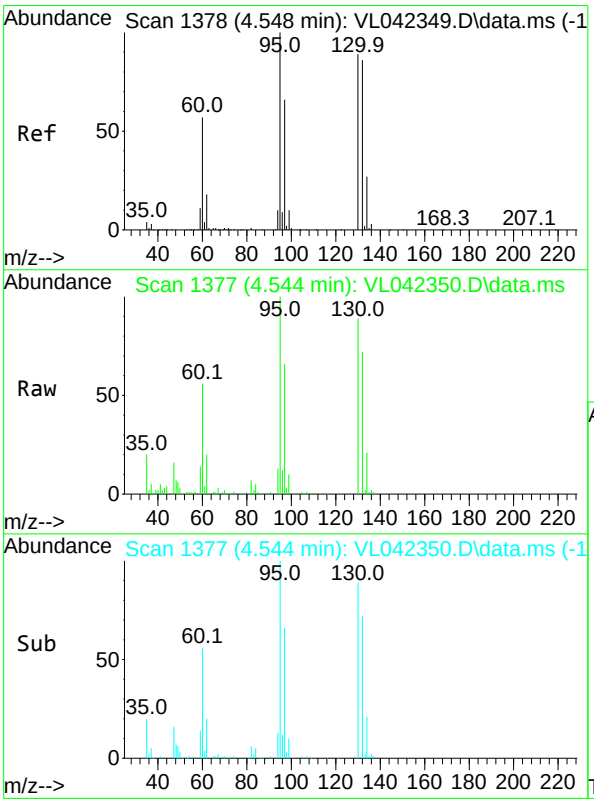
Ion	Ratio	Lower	Upper
62	100		
98	6.4	5.1	7.7

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

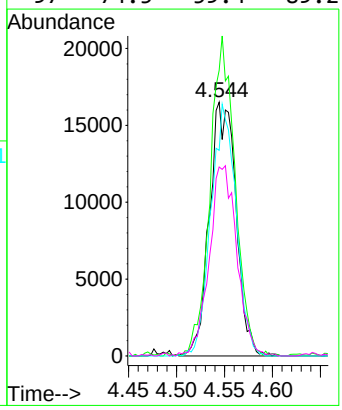


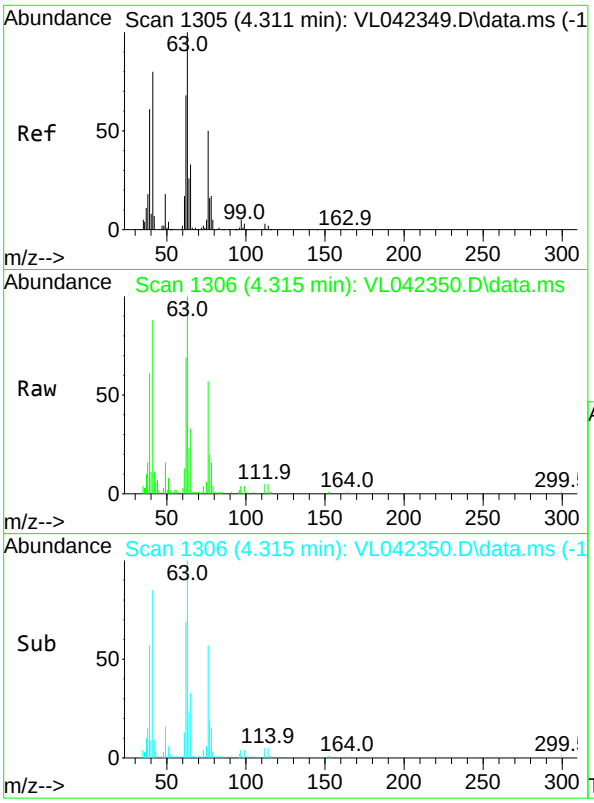


#38
Trichloroethene
Concen: 1.891 ppbv m
RT: 4.544 min Scan# 1377
Delta R.T. -0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion:130 Resp: 31826

Ion	Ratio	Lower	Upper
130	100		
95	112.6	89.8	134.6
132	81.1	77.7	116.5
97	74.5	59.4	89.2

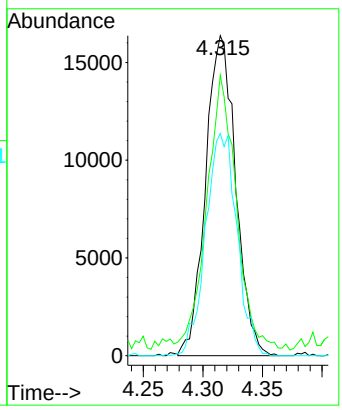




#39
1,2-Dichloropropane
Concen: 2.012 ppbv
RT: 4.315 min Scan# 1
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 63 Resp: 2880

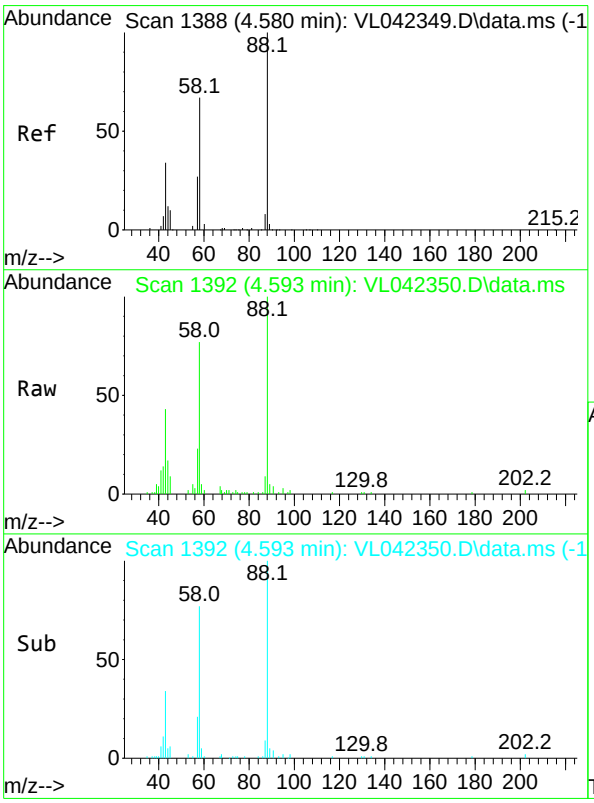
Ion	Ratio	Lower	Upper
63	100		
41	85.2	64.2	96.2
62	69.4	54.3	81.5



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

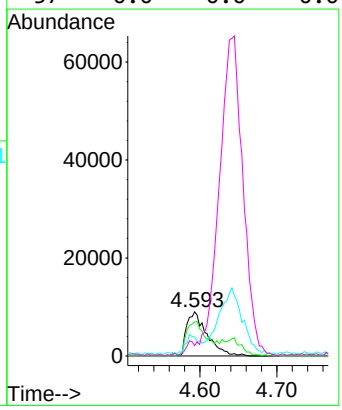
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

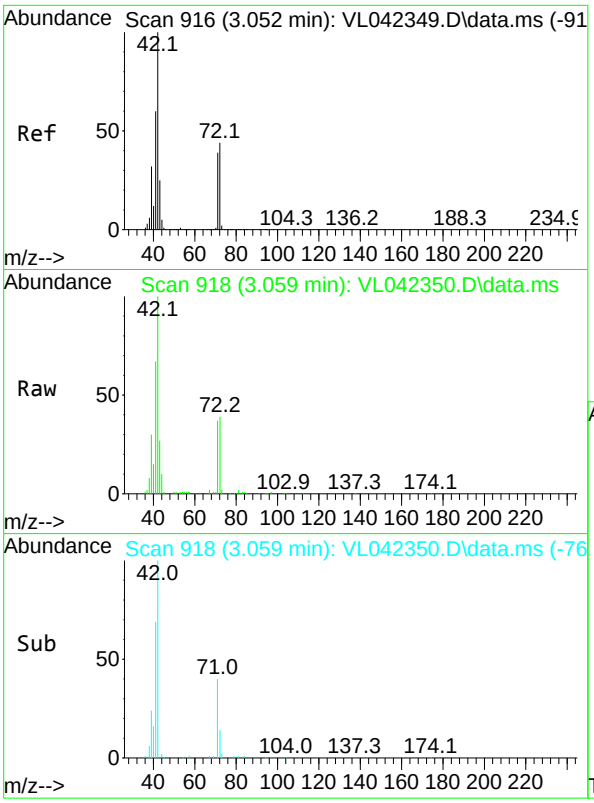


#40
1,4-Dioxane
Concen: 2.133 ppbv m
RT: 4.593 min Scan# 1392
Delta R.T. 0.013 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 88 Resp: 16536

Ion	Ratio	Lower	Upper
88	100		
58	82.3	61.4	92.0
43	6.1	23.2	34.8#
57	0.0	0.0	0.0

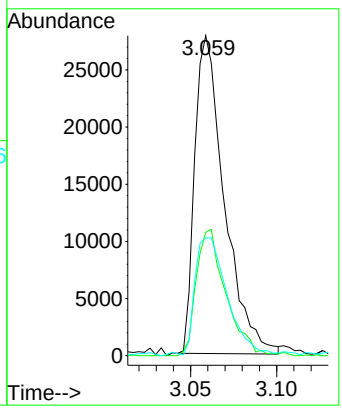




#41
Tetrahydrofuran
Concen: 2.047 ppbv
RT: 3.059 min Scan# 9
Delta R.T. 0.006 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 42 Resp: 3329

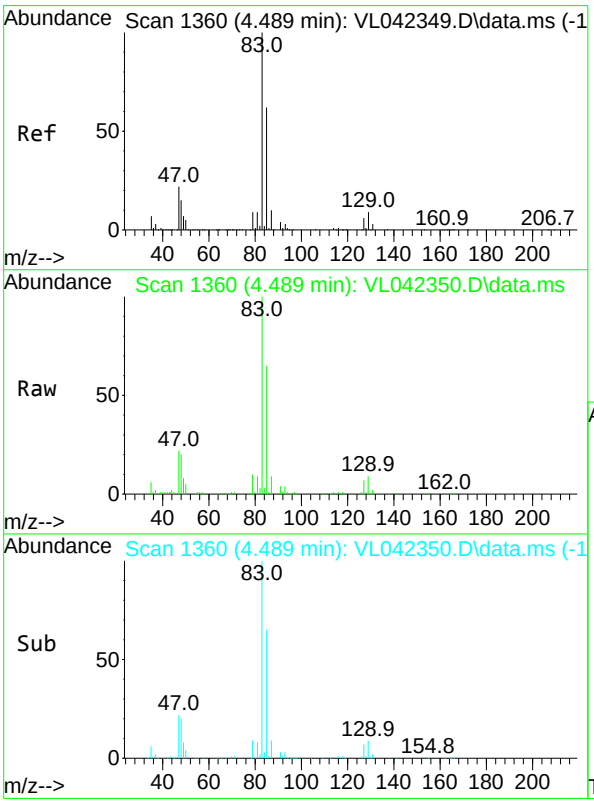
Ion	Ratio	Lower	Upper
42	100		
72	39.9	32.3	48.5
71	41.5	31.4	47.2



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations APPROVED

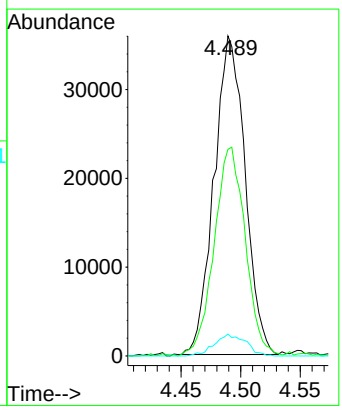
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

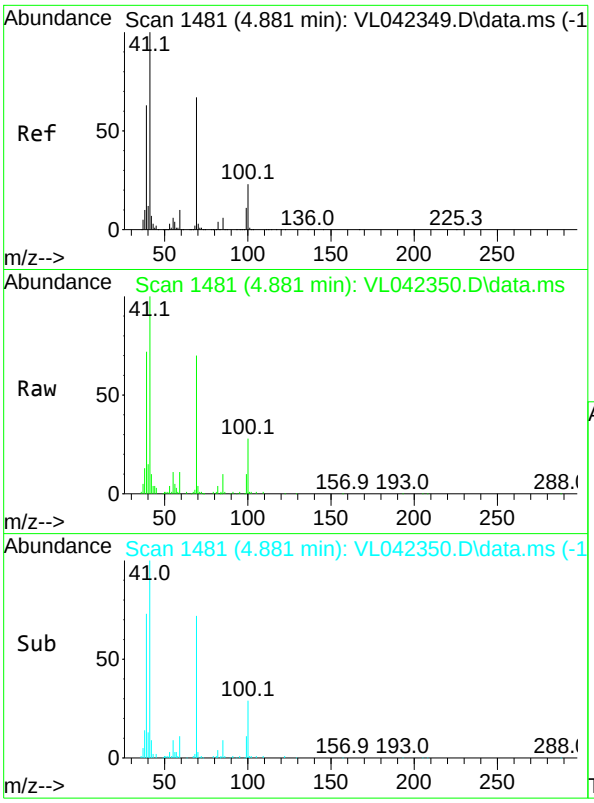


#42
Bromodichloromethane
Concen: 2.025 ppbv
RT: 4.489 min Scan# 1360
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 83 Resp: 64941

Ion	Ratio	Lower	Upper
83	100		
85	64.9	49.7	74.5
127	6.9	5.1	7.7

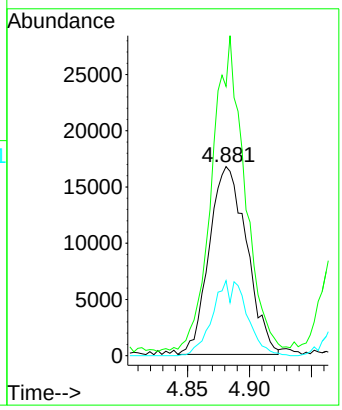




#43
Methyl Methacrylate
Concen: 2.046 ppbv
RT: 4.881 min Scan# 14
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 69 Resp: 3525(

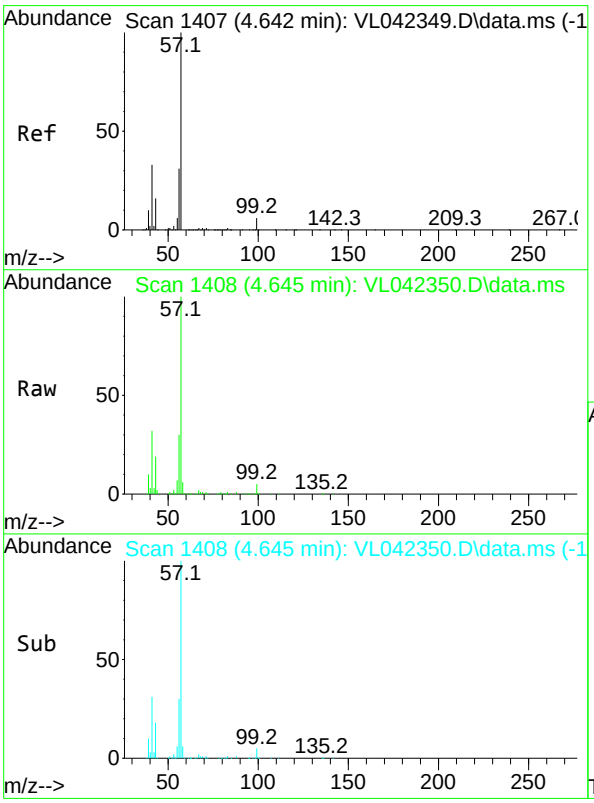
Ion	Ratio	Lower	Upper
69	100		
41	144.4	118.6	177.8
100	36.5	28.2	42.2



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

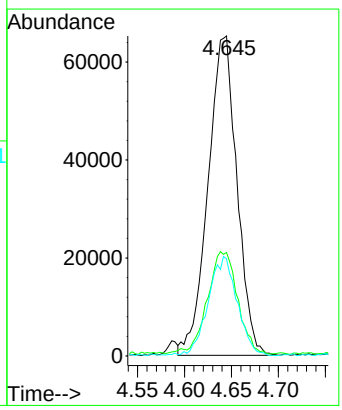
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

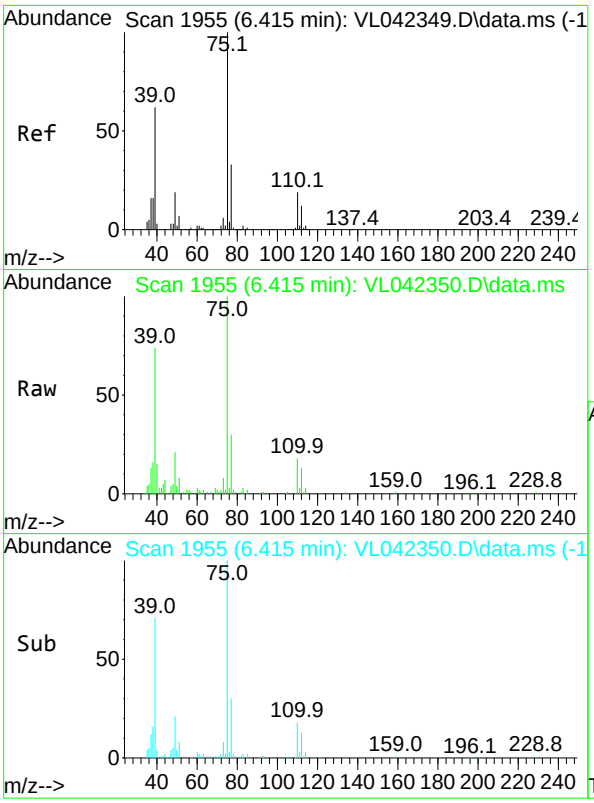


#44
2,2,4-Trimethylpentane
Concen: 2.103 ppbv
RT: 4.645 min Scan# 1408
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 57 Resp: 139641

Ion	Ratio	Lower	Upper
57	100		
41	34.4	27.2	40.8
56	31.3	25.7	38.5

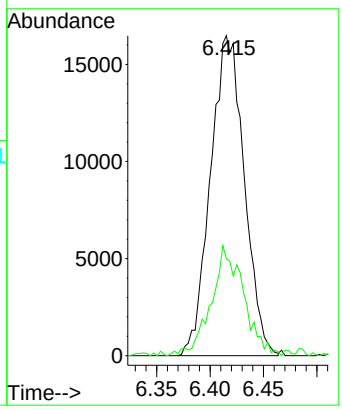




#45
t-1,3-Dichloropropene
Concen: 2.050 ppbv
RT: 6.415 min Scan# 1
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 75 Resp: 3626

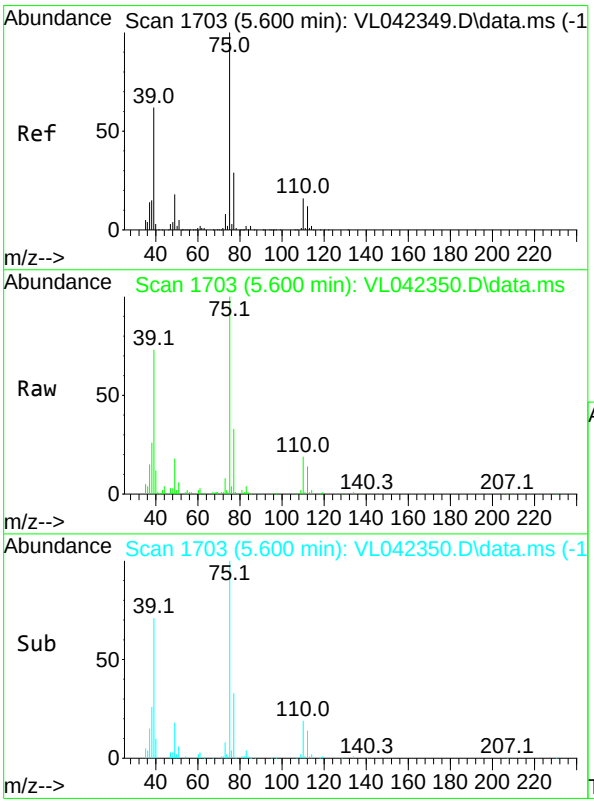
Ion	Ratio	Lower	Upper
75	100		
77	30.4	27.0	40.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

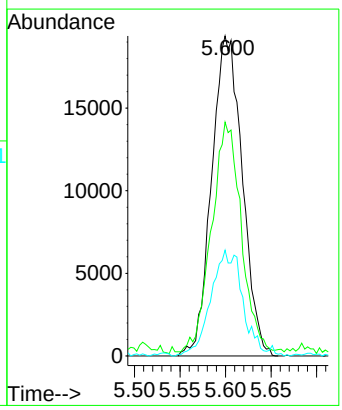
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

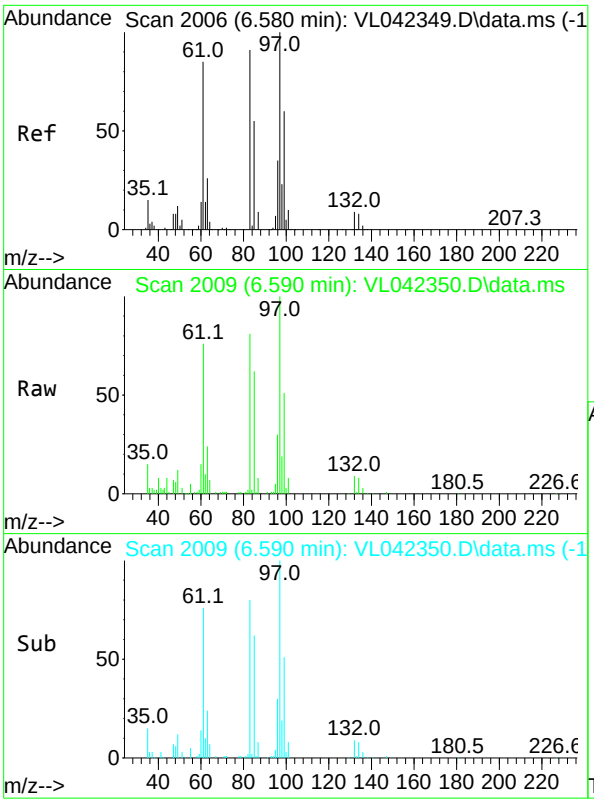


#46
cis-1,3-Dichloropropene
Concen: 2.096 ppbv m
RT: 5.600 min Scan# 1703
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 75 Resp: 45327

Ion	Ratio	Lower	Upper
75	100		
39	73.0	50.0	75.0
77	33.1	23.0	34.6

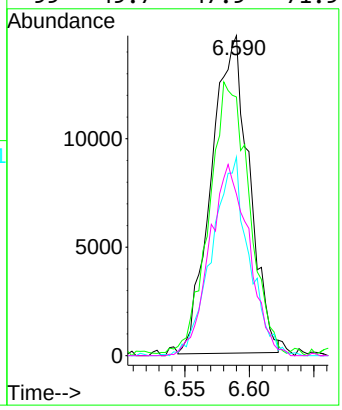




#47
1,1,2-Trichloroethane
Concen: 2.049 ppbv
RT: 6.590 min Scan# 2
Delta R.T. 0.010 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 97 Resp: 2987

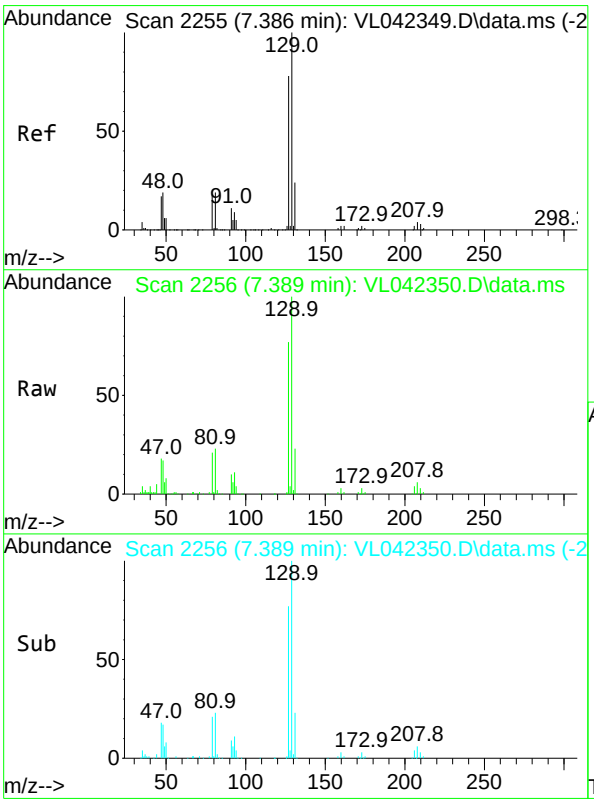
Ion	Ratio	Lower	Upper
97	100		
83	78.8	72.8	109.2
85	61.7	44.2	66.4
99	49.7	47.9	71.9



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

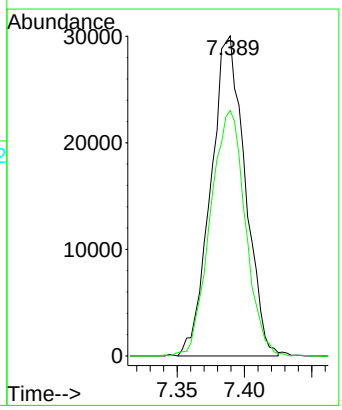
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

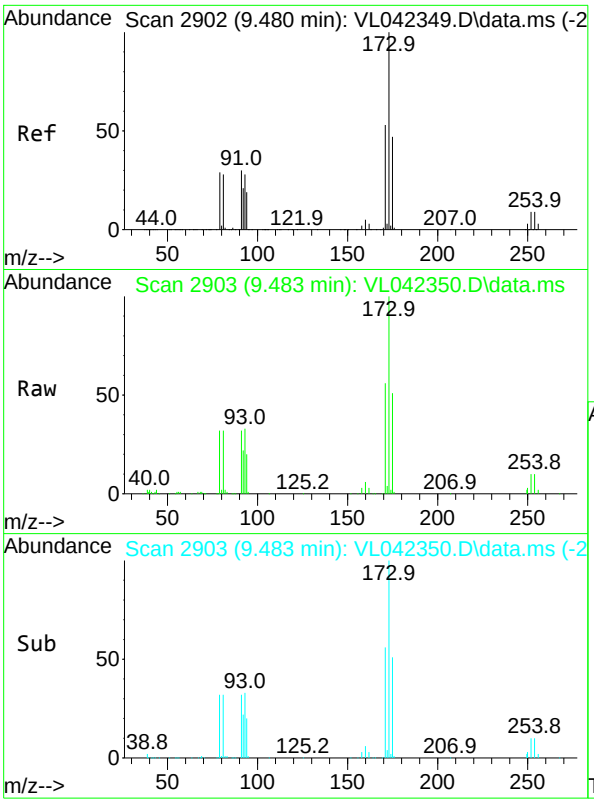


#48
Dibromochloromethane
Concen: 2.061 ppbv
RT: 7.389 min Scan# 2256
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion:129 Resp: 53069

Ion	Ratio	Lower	Upper
129	100		
127	78.4	39.1	117.3

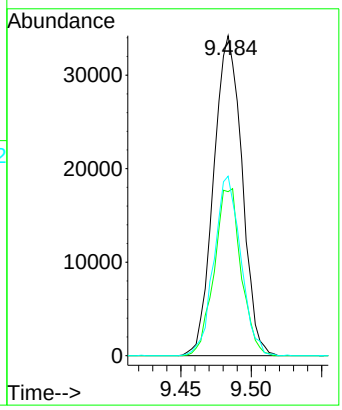




#49
Bromoform
Concen: 2.135 ppbv
RT: 9.483 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion:173 Resp: 4806

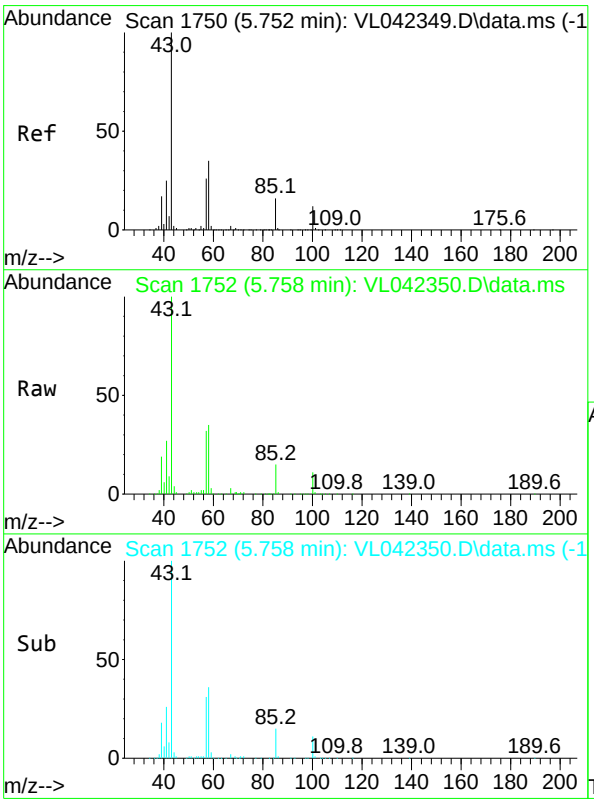
Ion	Ratio	Lower	Upper
173	100		
175	49.4	38.2	57.2
171	53.0	40.9	61.3



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

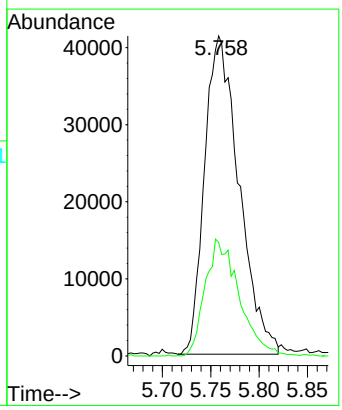
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

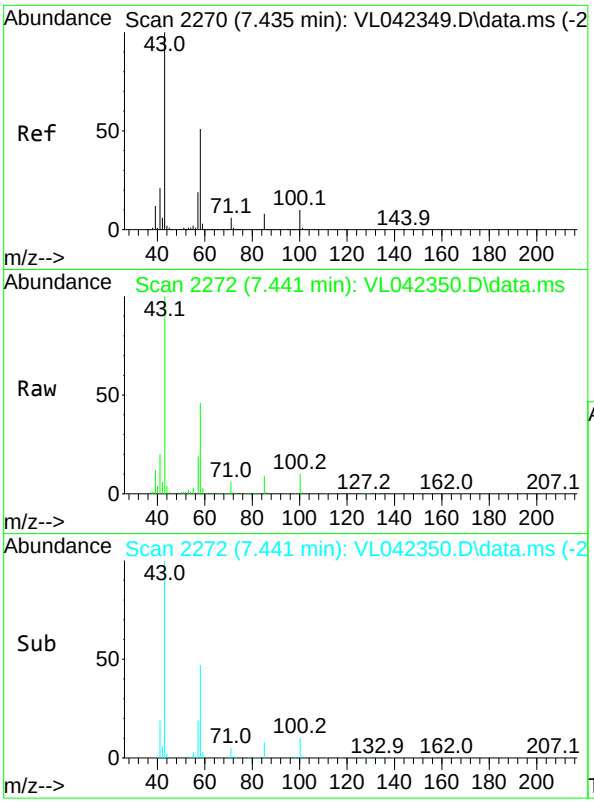


#50
4-Methyl-2-Pentanone
Concen: 2.180 ppbv
RT: 5.758 min Scan# 1752
Delta R.T. 0.006 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 43 Resp: 102182

Ion	Ratio	Lower	Upper
43	100		
58	36.3	28.6	43.0

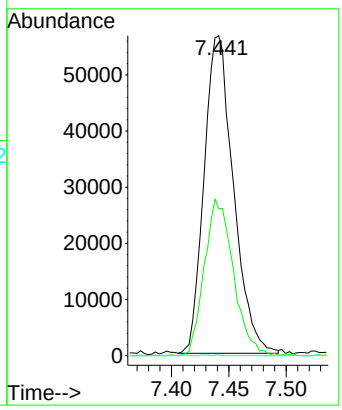




#51
2-Hexanone
Concen: 2.375 ppbv
RT: 7.441 min Scan# 2
Delta R.T. 0.006 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 43 Resp: 10044

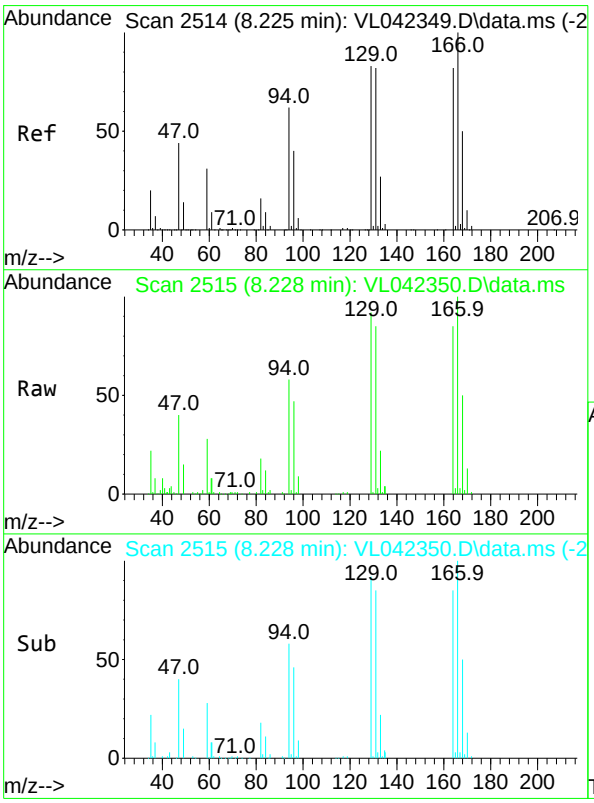
Ion	Ratio	Lower	Upper
43	100		
58	49.0	40.2	60.4
98	0.1	0.1	0.1



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

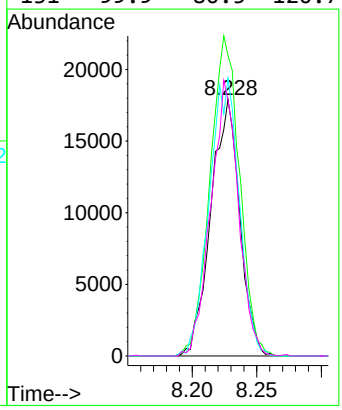
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

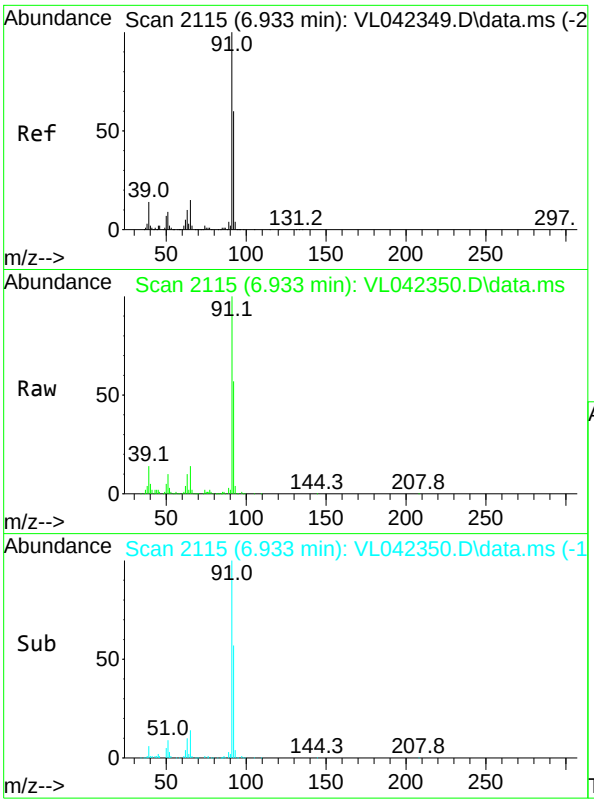


#52
Tetrachloroethene
Concen: 1.877 ppbv
RT: 8.228 min Scan# 2515
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion:164 Resp: 27854

Ion	Ratio	Lower	Upper
164	100		
166	117.2	98.2	147.2
129	108.2	81.8	122.8
131	99.9	80.5	120.7

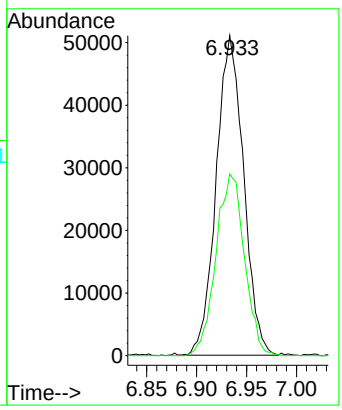




#53
Toluene
Concen: 2.116 ppbv
RT: 6.933 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 91 Resp: 9749

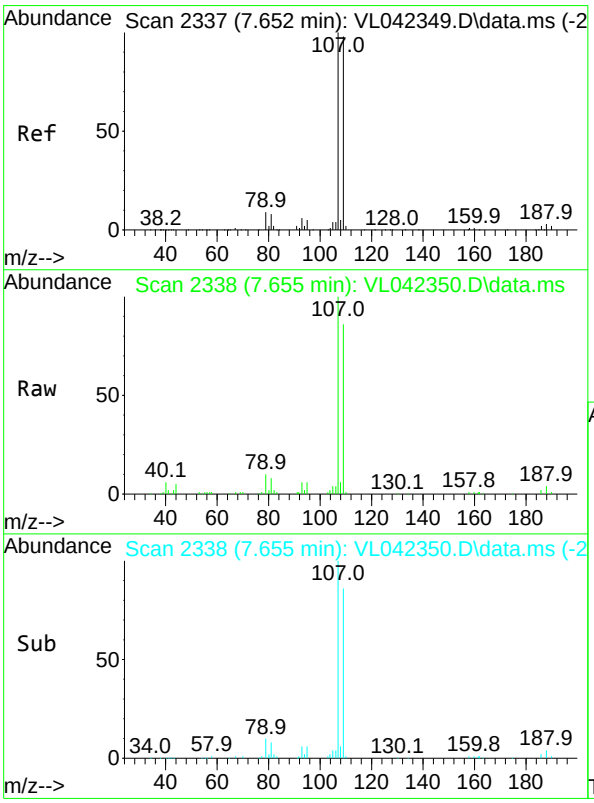
Ion	Ratio	Lower	Upper
91	100		
92	59.1	48.2	72.4



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

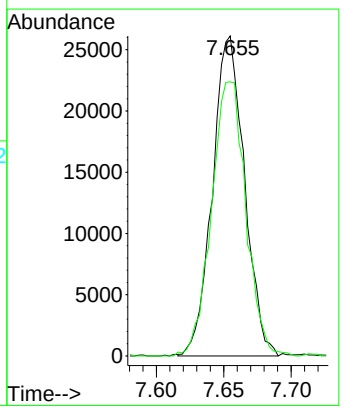
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

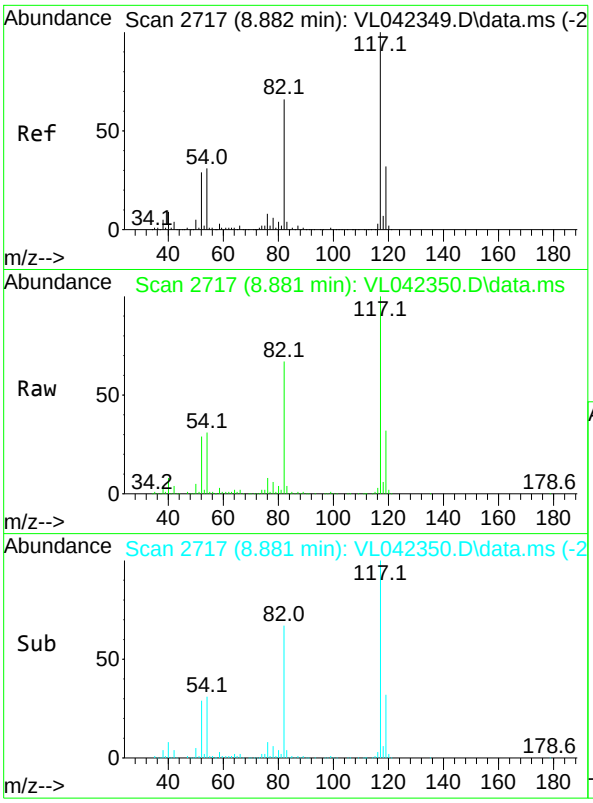


#54
1,2-Dibromoethane
Concen: 2.076 ppbv
RT: 7.655 min Scan# 2338
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion:107 Resp: 43153

Ion	Ratio	Lower	Upper
107	100		
109	84.5	78.2	117.4

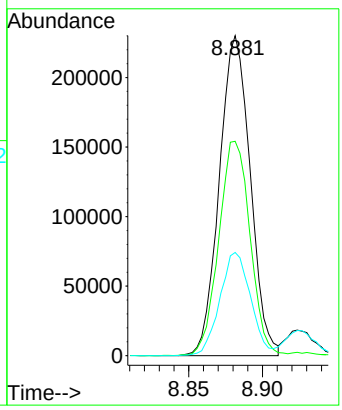




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.881 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion:117 Resp: 33560

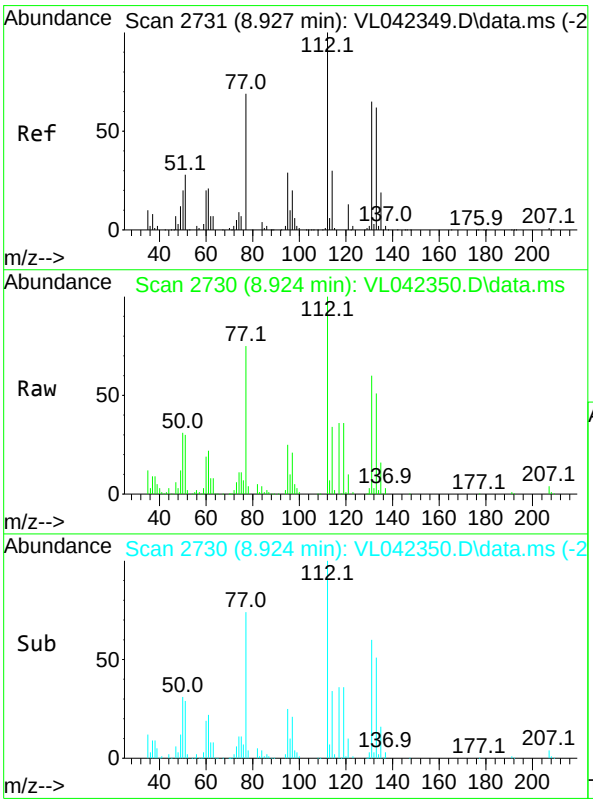
Ion	Ratio	Lower	Upper
117	100		
82	68.8	57.8	86.6
119	32.2	25.2	37.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

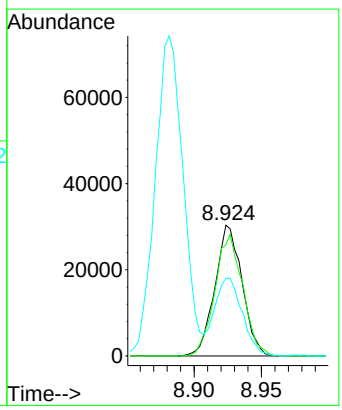
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

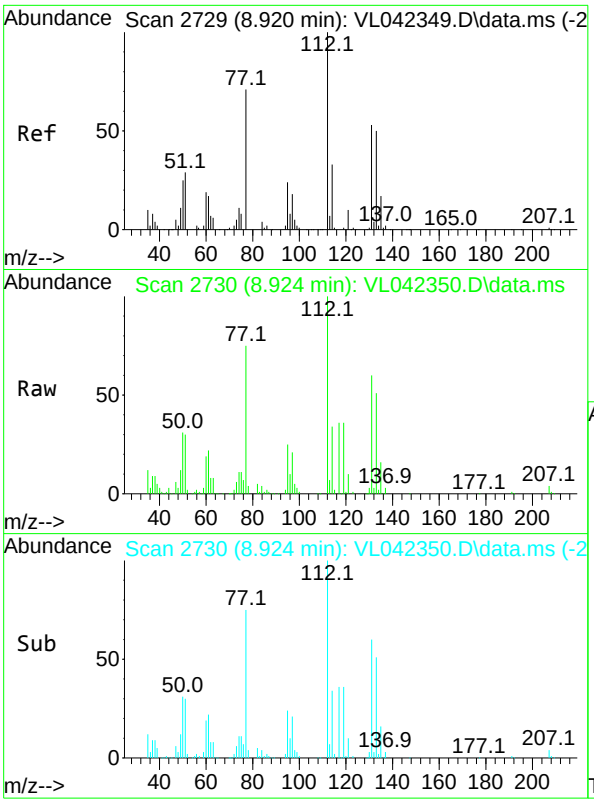


#56
1,1,1,2-Tetrachloroethane
Concen: 2.097 ppbv
RT: 8.924 min Scan# 2730
Delta R.T. -0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion:131 Resp: 42601

Ion	Ratio	Lower	Upper
131	100		
133	95.3	78.3	117.5
119	53.8	48.7	73.1

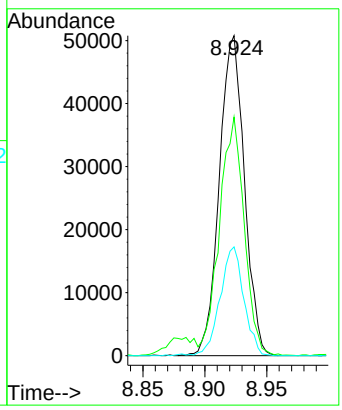




#57
Chlorobenzene
Concen: 2.054 ppbv
RT: 8.924 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion:112 Resp: 7168

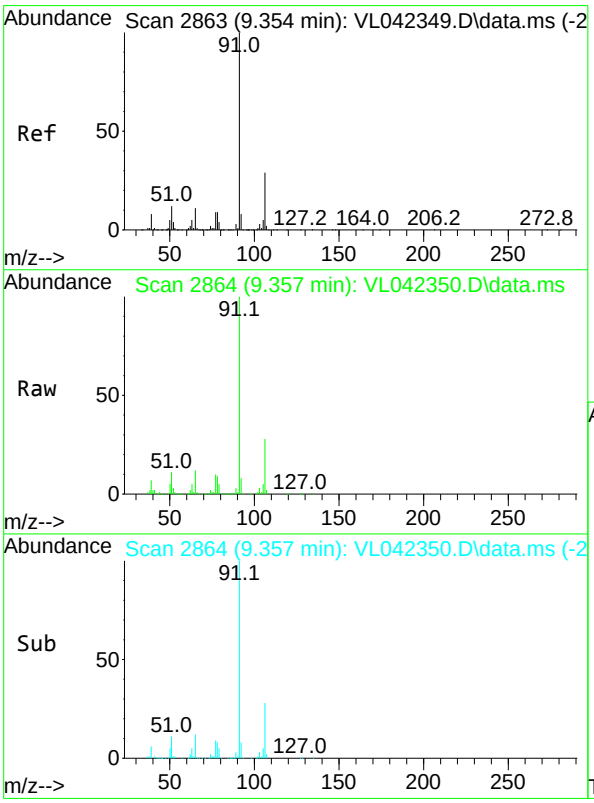
Ion	Ratio	Lower	Upper
112	100		
77	74.0	57.8	86.6
114	34.0	29.3	35.9



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

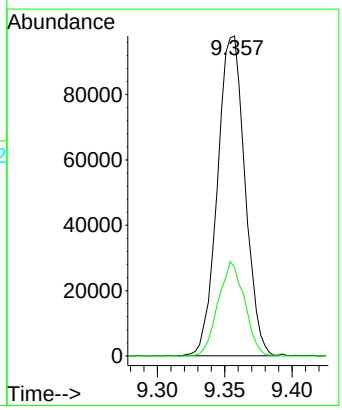
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

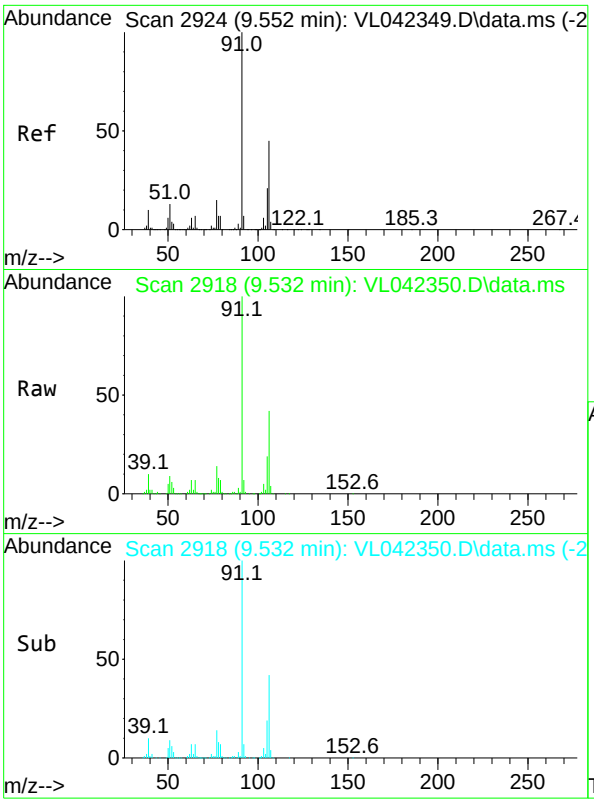


#58
Ethyl Benzene
Concen: 2.088 ppbv
RT: 9.357 min Scan# 2864
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 91 Resp: 138810

Ion	Ratio	Lower	Upper
91	100		
106	27.7	23.0	34.4





#59
m/p-Xylene
Concen: 4.142 ppbv m
RT: 9.532 min Scan# 2
Delta R.T. -0.019 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

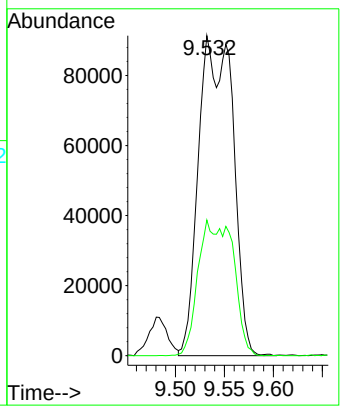
Tgt Ion: 91 Resp: 22254

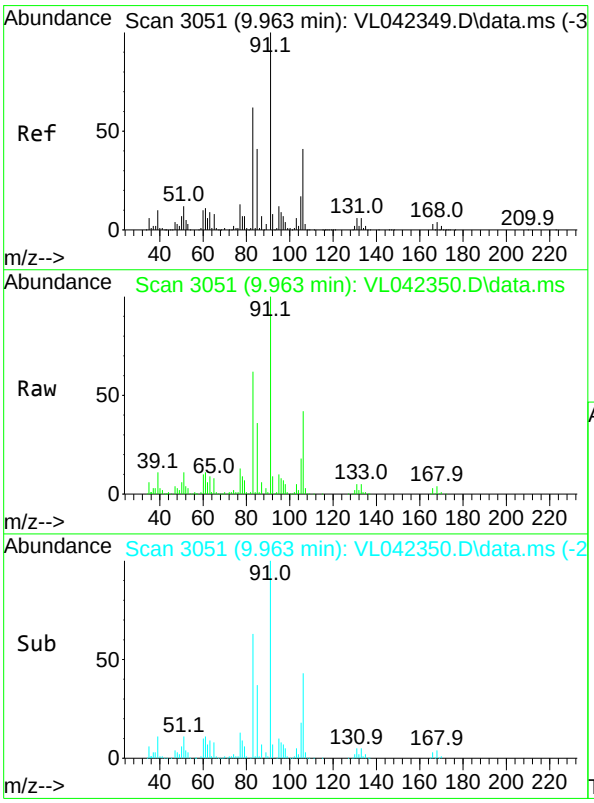
Ion	Ratio	Lower	Upper
91	100		
106	0.0	35.4	53.2

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

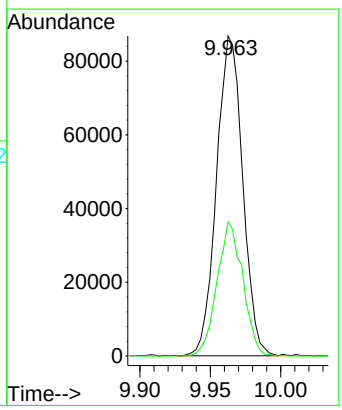


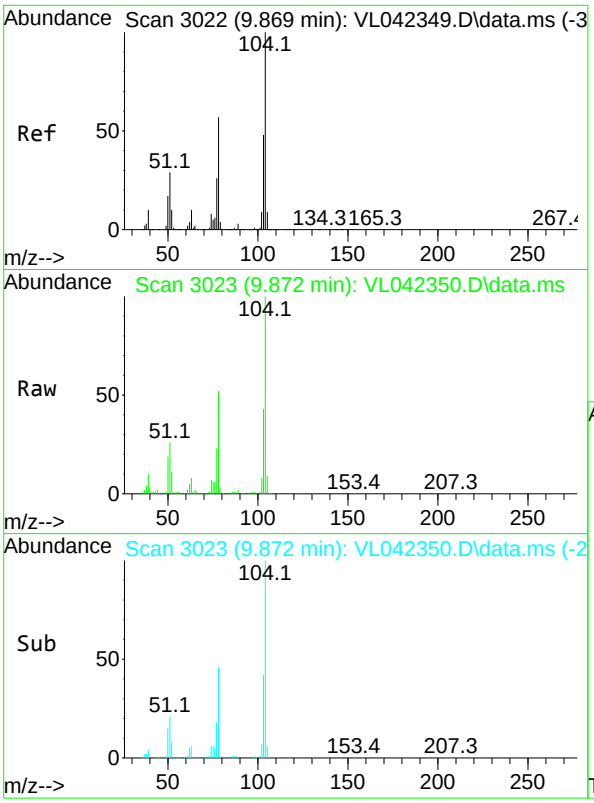


#60
o-Xylene
Concen: 2.076 ppbv
RT: 9.963 min Scan# 3051
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 91 Resp: 111972

Ion	Ratio	Lower	Upper
91	100		
106	41.2	21.1	63.4

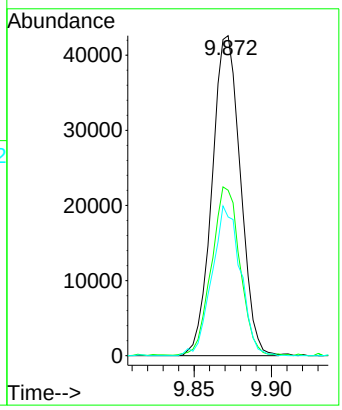




#61
Styrene
Concen: 2.106 ppbv
RT: 9.872 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion:104 Resp: 5422

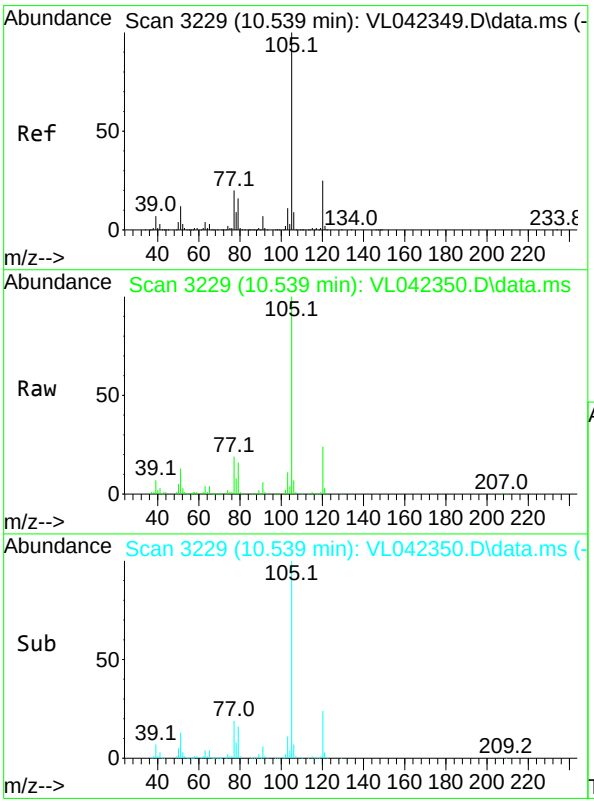
Ion	Ratio	Lower	Upper
104	100		
78	53.4	44.6	66.8
103	47.1	37.4	56.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

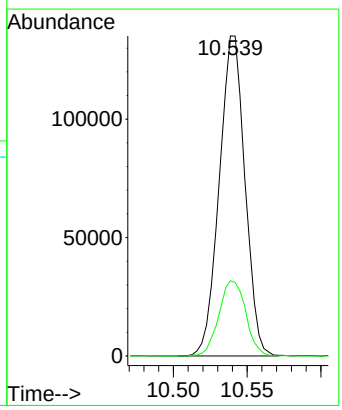
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

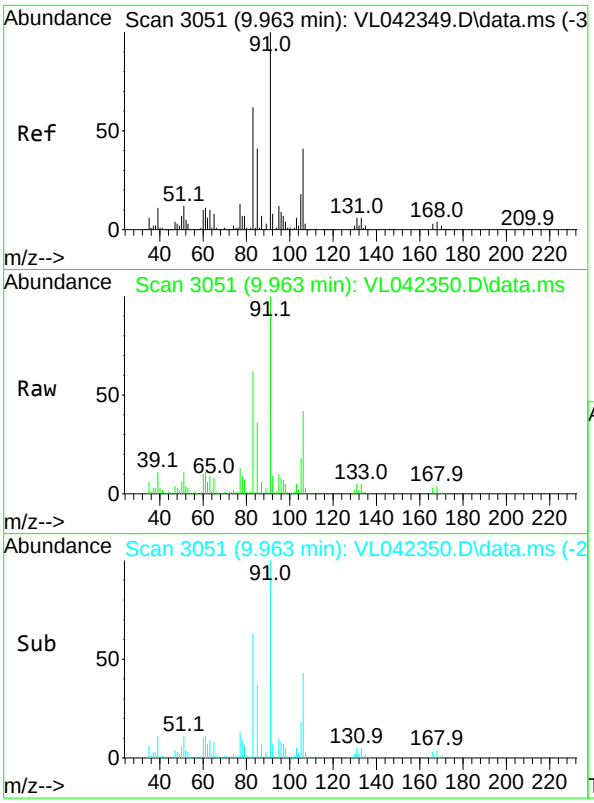


#62
Isopropylbenzene
Concen: 2.067 ppbv
RT: 10.539 min Scan# 3229
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion:105 Resp: 163716

Ion	Ratio	Lower	Upper
105	100		
120	24.6	19.8	29.8

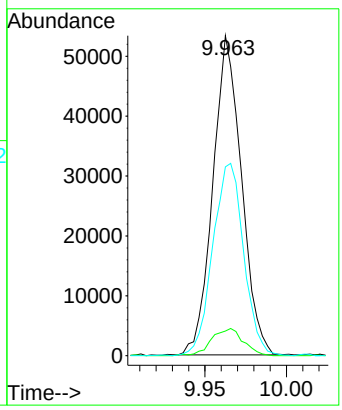




#63
1,1,2,2-Tetrachloroethane
Concen: 1.853 ppbv
RT: 9.963 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 83 Resp: 6495

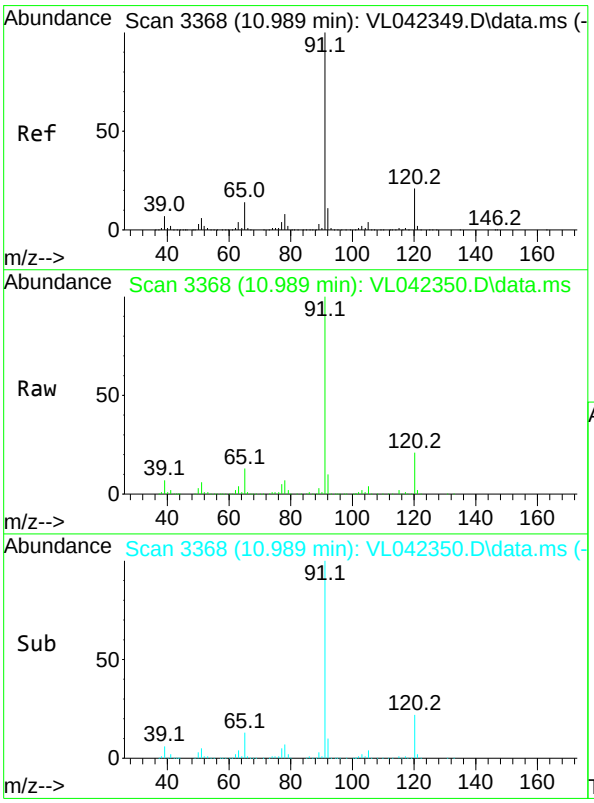
Ion	Ratio	Lower	Upper
83	100		
131	9.6	4.5	13.7
85	65.4	32.4	97.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

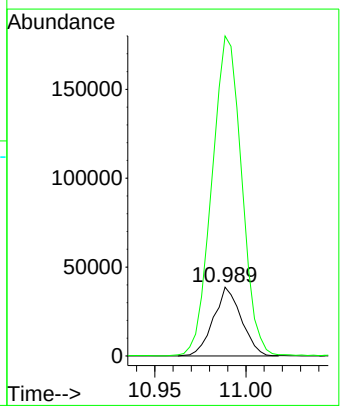
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

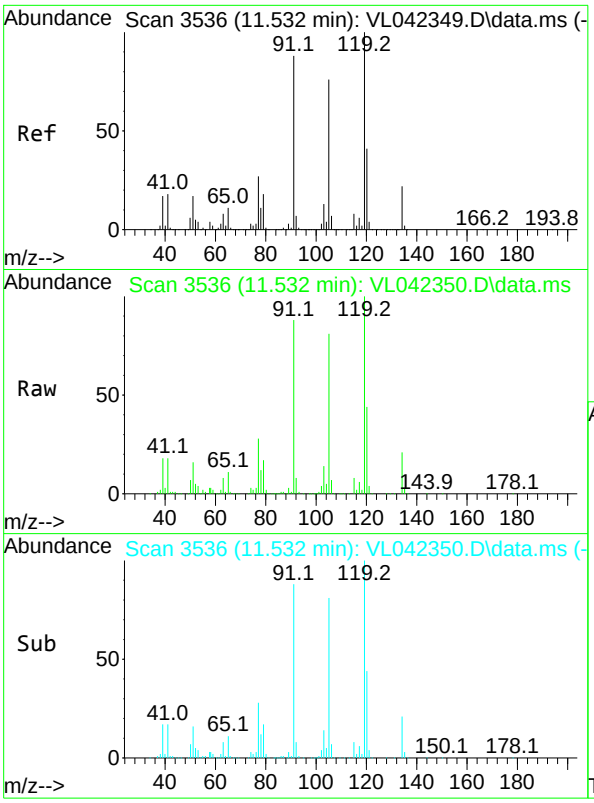


#64
n-propylbenzene
Concen: 2.058 ppbv
RT: 10.989 min Scan# 3368
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion:120 Resp: 40956

Ion	Ratio	Lower	Upper
120	100		
91	502.0	392.4	588.6

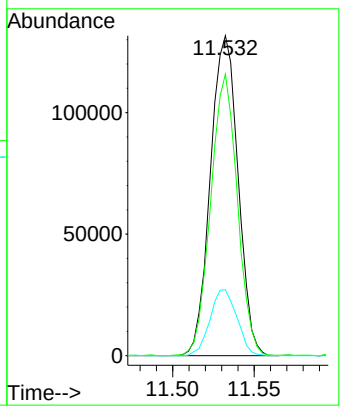




#65
tert-Butylbenzene
Concen: 2.135 ppbv
RT: 11.532 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion:119 Resp: 15540

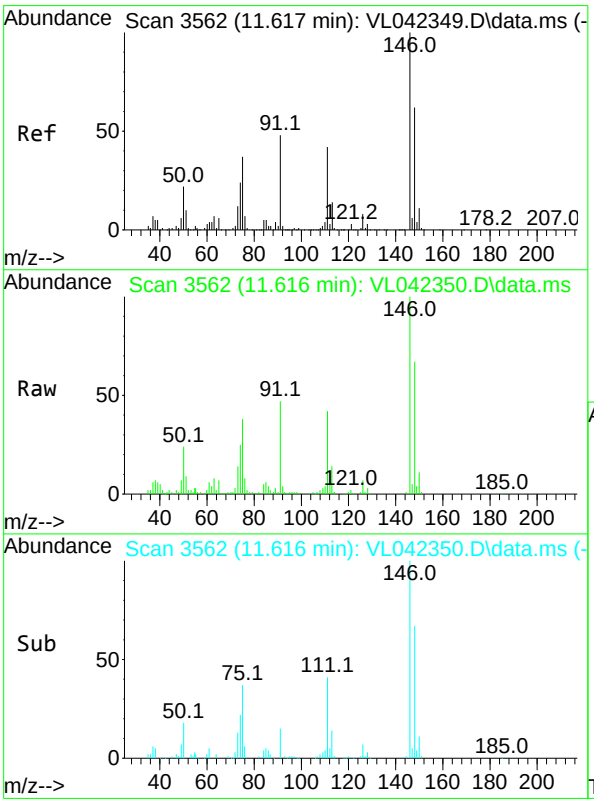
Ion	Ratio	Lower	Upper
119	100		
91	85.0	74.6	111.8
134	20.1	18.8	28.2



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

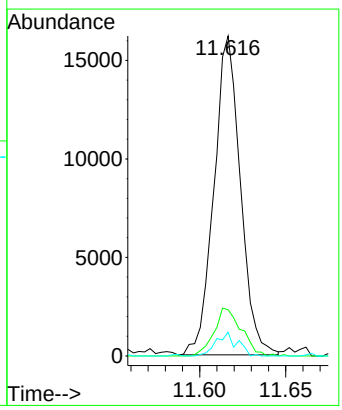
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

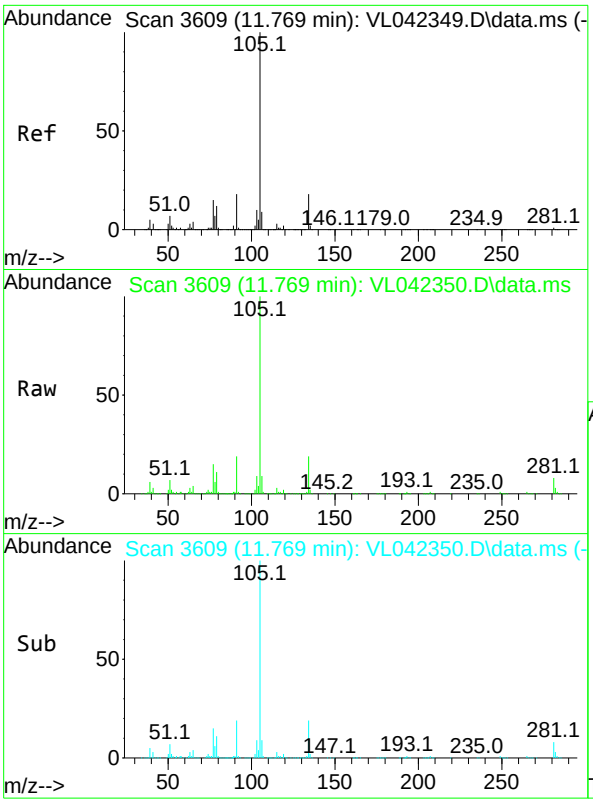


#66
Benzyl Chloride
Concen: 2.163 ppbv
RT: 11.616 min Scan# 3562
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 91 Resp: 17300

Ion	Ratio	Lower	Upper
91	100		
126	15.6	11.8	17.6
128	6.1	4.5	6.7

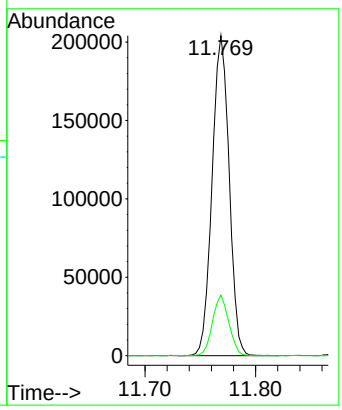




#67
sec-Butylbenzene
Concen: 2.156 ppbv
RT: 11.769 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion:105 Resp: 21832

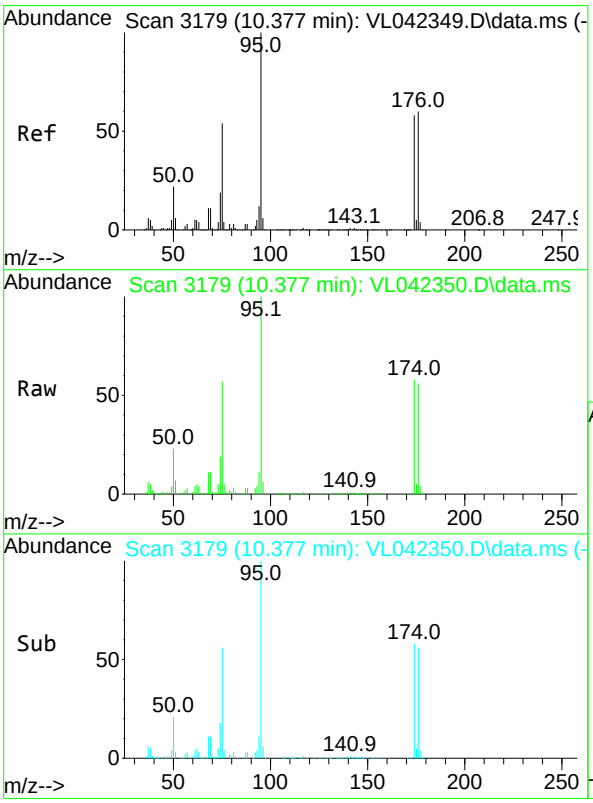
Ion	Ratio	Lower	Upper
105	100		
134	18.1	14.6	21.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

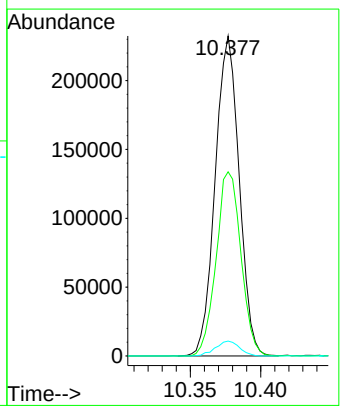
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

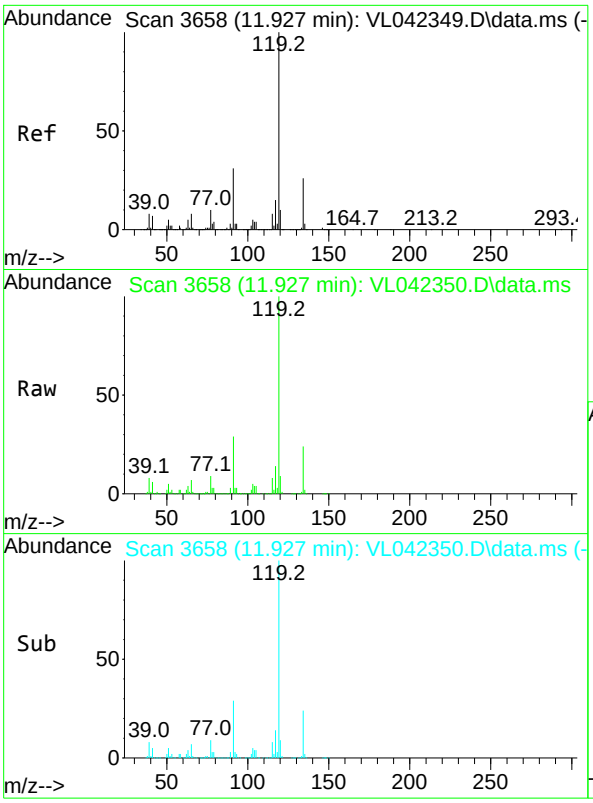


#68
1-Bromo-4-Fluorobenzene
Concen: 9.998 ppbv
RT: 10.377 min Scan# 3179
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 95 Resp: 275715

Ion	Ratio	Lower	Upper
95	100		
174	59.6	48.5	72.7
175	4.7	3.7	5.5

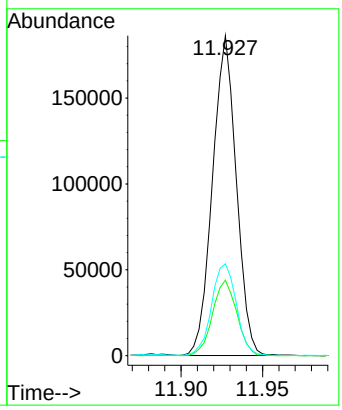




#69
p-Isopropyltoluene
Concen: 2.145 ppbv
RT: 11.927 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion:119 Resp: 18865

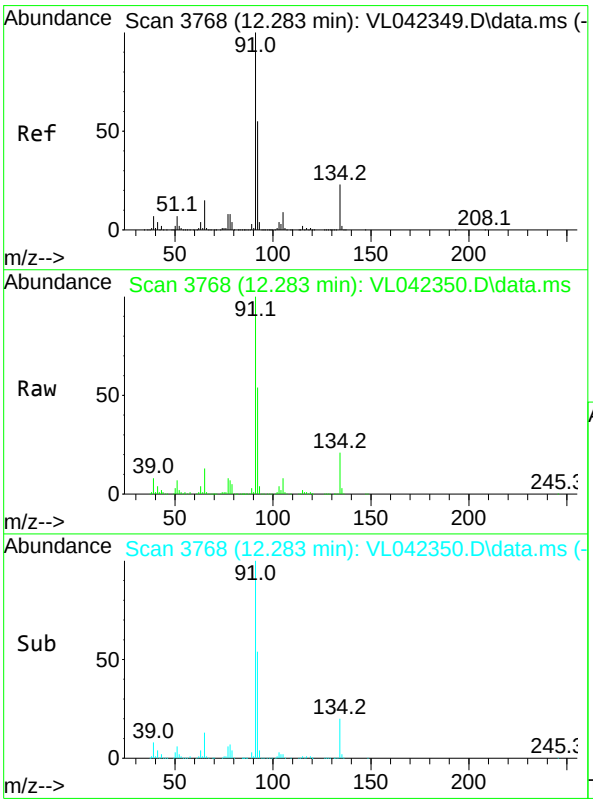
Ion	Ratio	Lower	Upper
119	100		
134	24.2	20.0	30.0
91	30.8	24.4	36.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

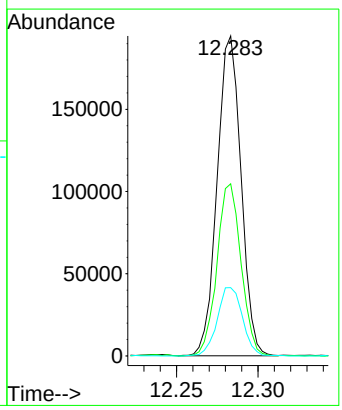
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

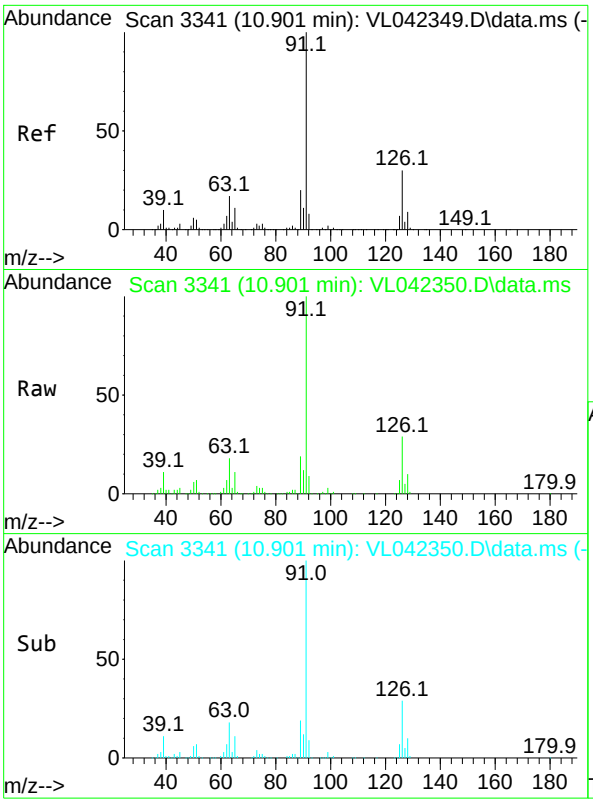


#70
n-Butylbenzene
Concen: 2.164 ppbv
RT: 12.283 min Scan# 3768
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 91 Resp: 198221

Ion	Ratio	Lower	Upper
91	100		
92	54.4	44.2	66.4
134	22.6	18.2	27.4

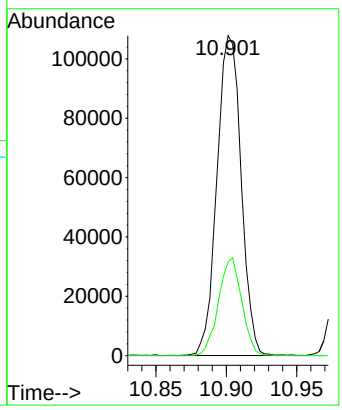




#71
2-Chlorotoluene
Concen: 2.075 ppbv
RT: 10.901 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 91 Resp: 12885

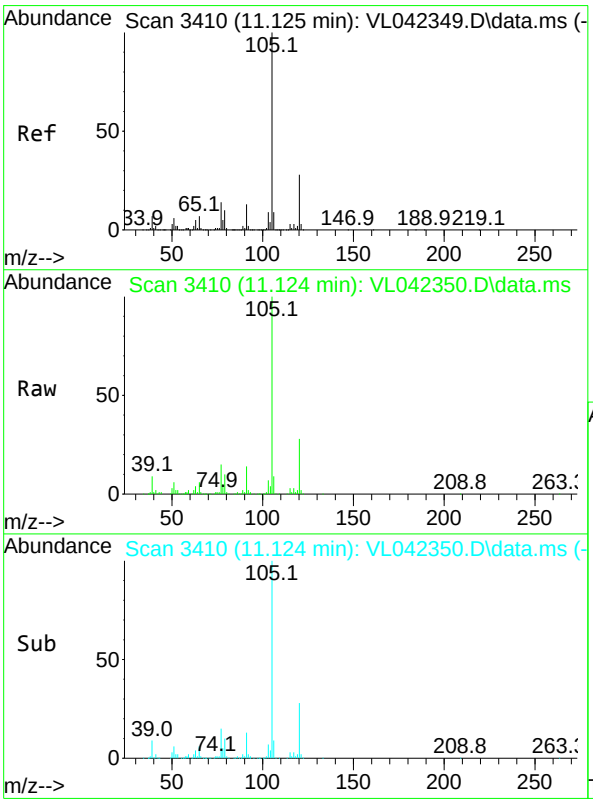
Ion	Ratio	Lower	Upper
91	100		
126	29.5	11.4	45.4



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

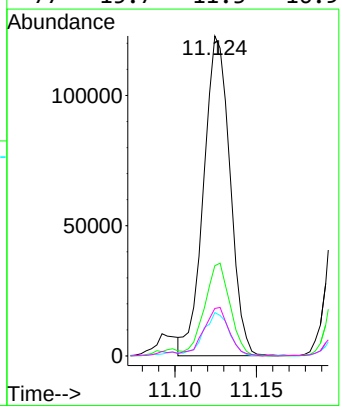
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

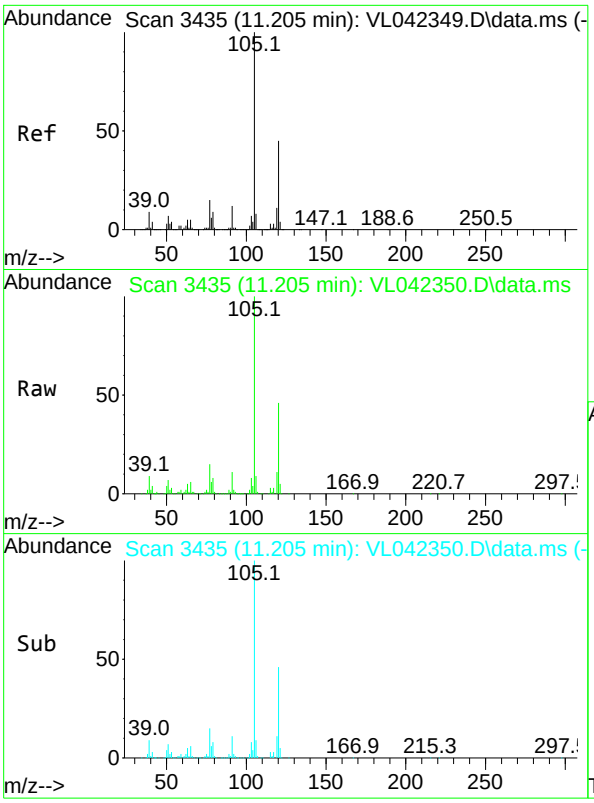


#72
4-Ethyltoluene
Concen: 2.091 ppbv
RT: 11.124 min Scan# 3410
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion:105 Resp: 137872

Ion	Ratio	Lower	Upper
105	100		
120	30.1	23.2	34.8
91	14.4	10.4	15.6
77	15.7	11.3	16.9

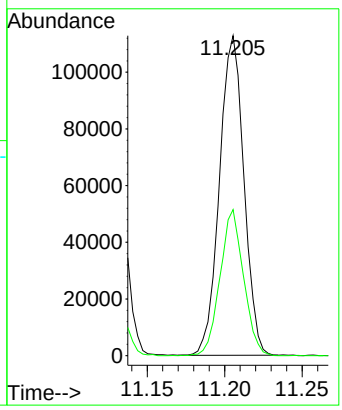




#73
1,3,5-Trimethylbenzene
Concen: 2.123 ppbv
RT: 11.205 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion:105 Resp: 12358

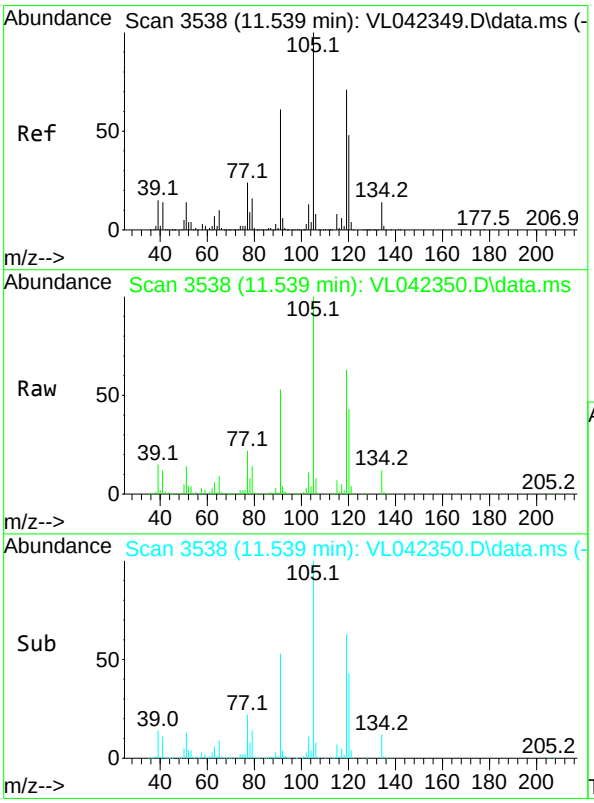
Ion	Ratio	Lower	Upper
105	100		
120	45.7	35.6	53.4



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

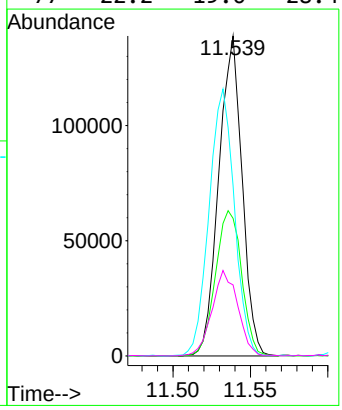
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

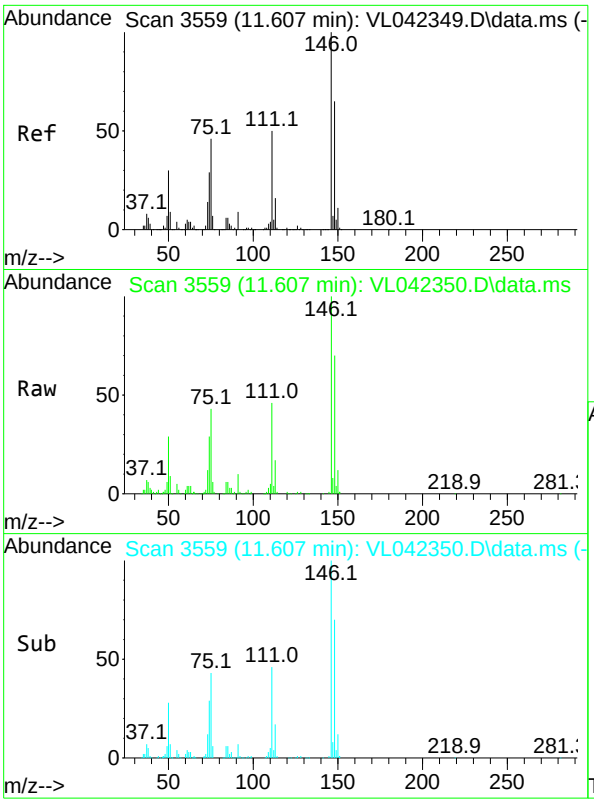


#74
1,2,4-Trimethylbenzene
Concen: 2.140 ppbv
RT: 11.539 min Scan# 3538
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion:105 Resp: 145510

Ion	Ratio	Lower	Upper
105	100		
120	43.0	38.1	57.1
91	53.1	48.8	73.2
77	22.2	19.0	28.4

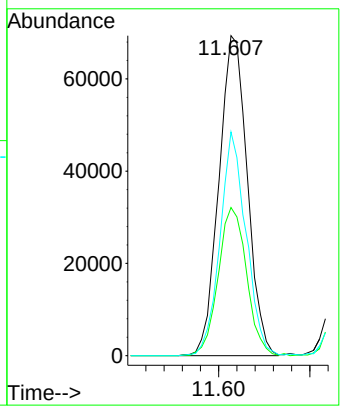




#75
1,3-Dichlorobenzene
Concen: 2.124 ppbv
RT: 11.607 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion:146 Resp: 7508

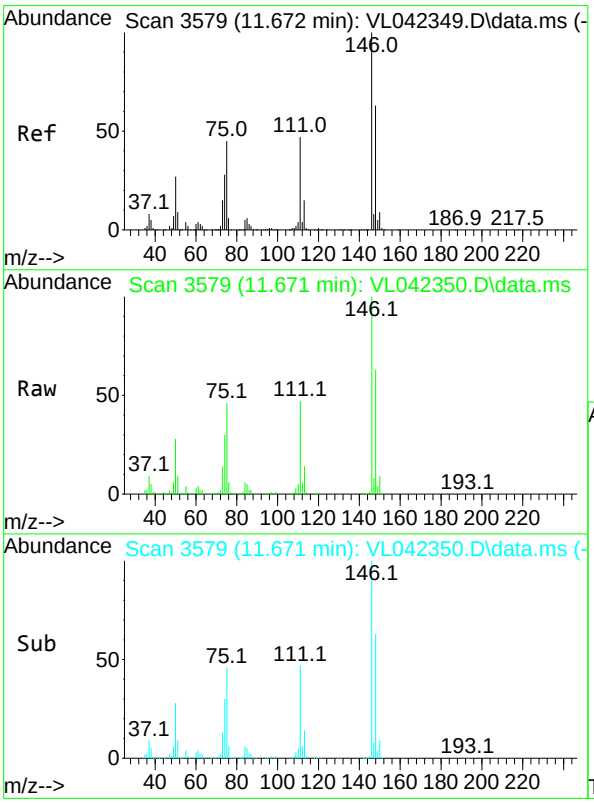
Ion	Ratio	Lower	Upper
146	100		
111	46.3	24.3	72.8
148	64.3	31.6	94.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

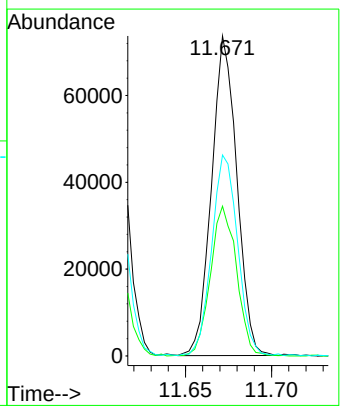
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

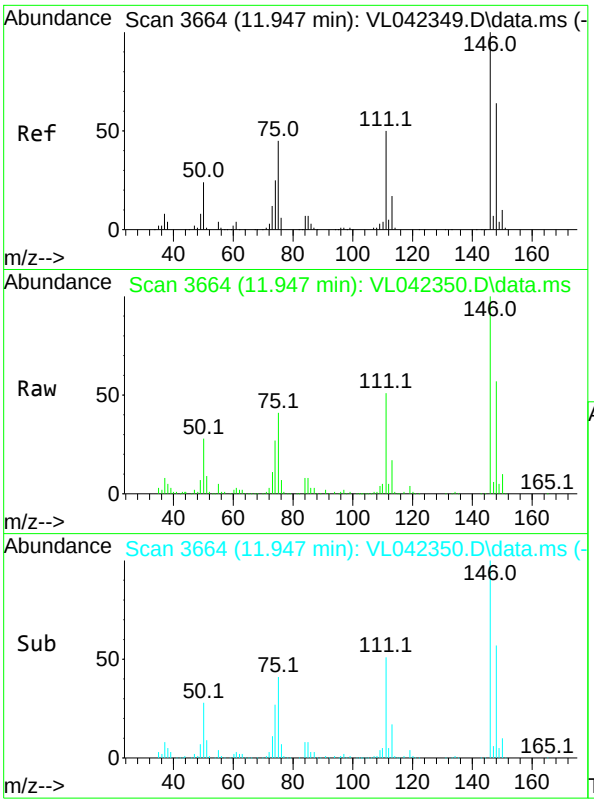


#76
1,4-Dichlorobenzene
Concen: 2.120 ppbv
RT: 11.671 min Scan# 3579
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion:146 Resp: 75323

Ion	Ratio	Lower	Upper
146	100		
111	48.4	24.2	72.6
148	65.1	32.1	96.5

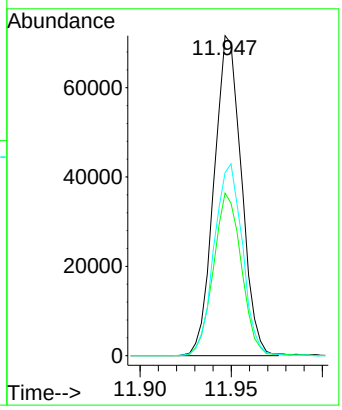




#77
1,2-Dichlorobenzene
Concen: 2.176 ppbv
RT: 11.947 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion:146 Resp: 7478

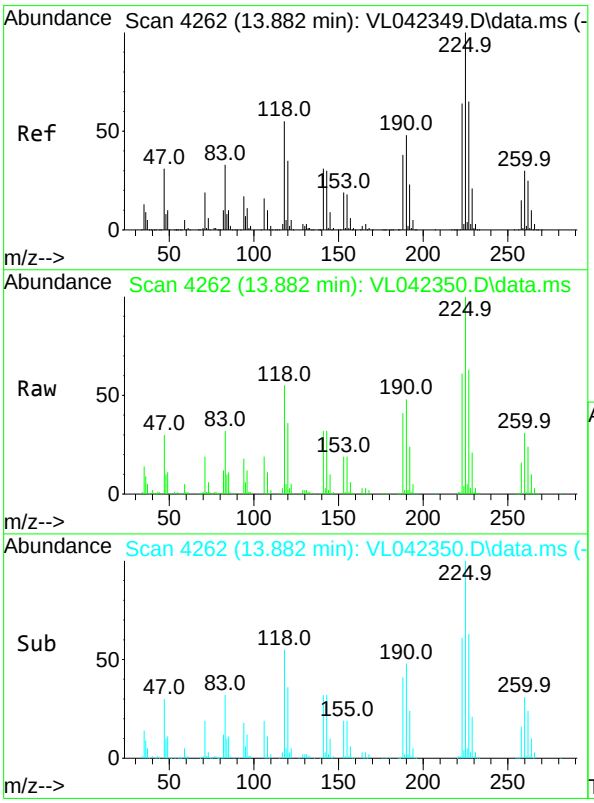
Ion	Ratio	Lower	Upper
146	100		
111	52.0	25.3	75.9
148	61.8	31.5	94.5



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

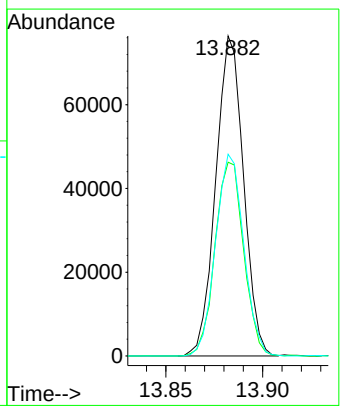
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

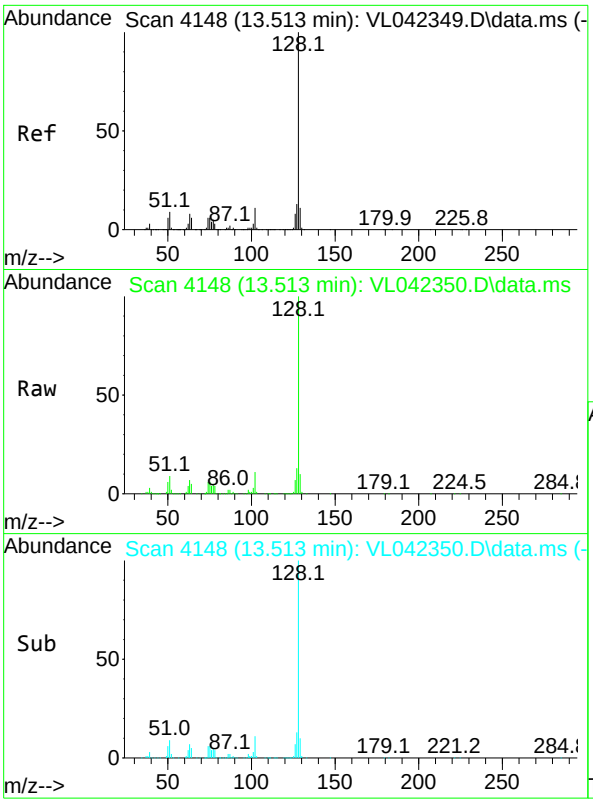


#78
Hexachloro-1,3-Butadiene
Concen: 2.194 ppbv
RT: 13.882 min Scan# 4262
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion:225 Resp: 76158

Ion	Ratio	Lower	Upper
225	100		
223	62.6	50.3	75.5
227	64.1	51.5	77.3





#79
Naphthalene
Concen: 2.401 ppbv
RT: 13.513 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

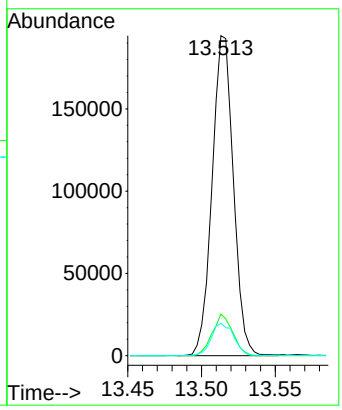
Tgt Ion:128 Resp: 19523

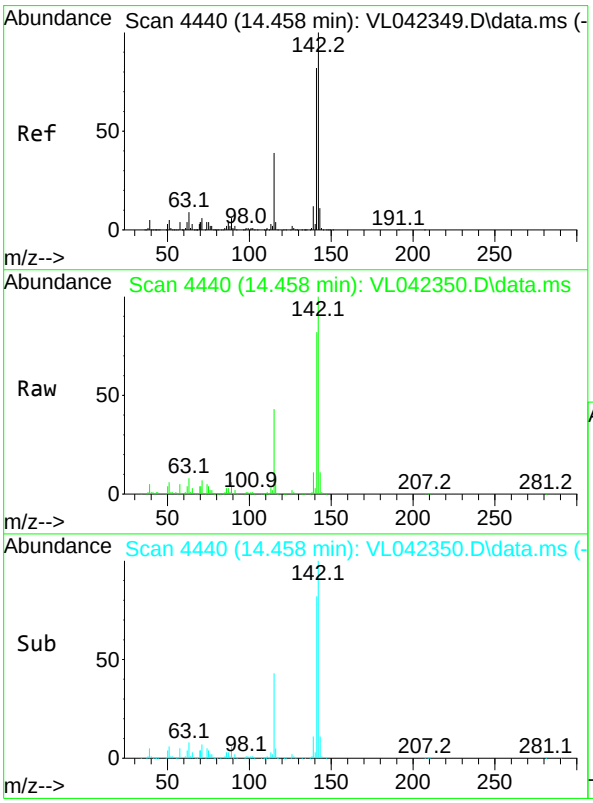
Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.6	15.8
129	10.1	8.6	12.8

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

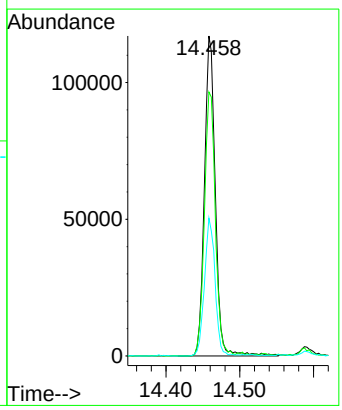


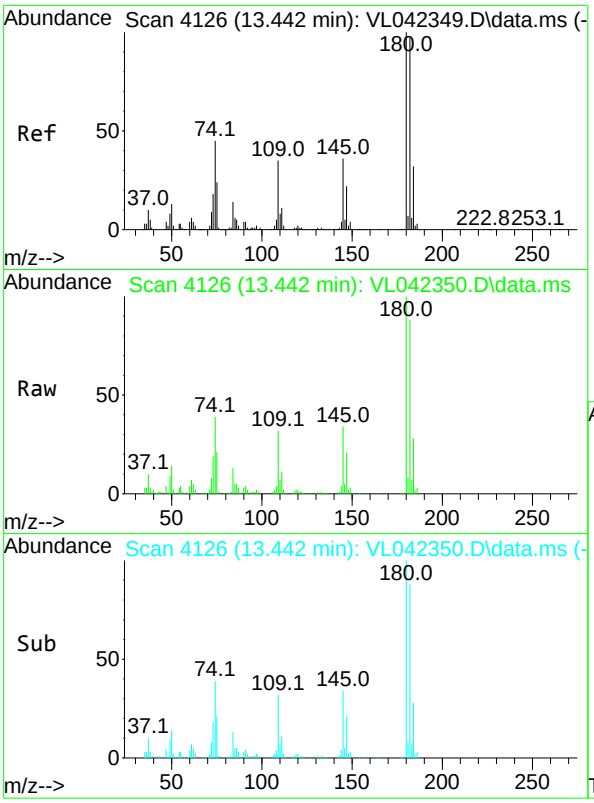


#80
Naphthalene,2-methyl-
Concen: 2.574 ppbv
RT: 14.458 min Scan# 4440
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion:142 Resp: 119262

Ion	Ratio	Lower	Upper
142	100		
141	84.7	66.8	100.2
115	42.2	33.4	50.2

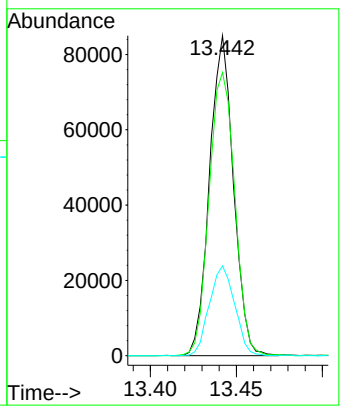




#81
1,2,4-Trichlorobenzene
Concen: 2.353 ppbv
RT: 13.442 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion:180 Resp: 8215

Ion	Ratio	Lower	Upper
180	100		
182	95.1	76.8	115.2
184	29.8	24.6	36.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042351.D
Acq On : 17 Apr 2025 10:48
Operator : SY/MD
Sample : VSTDICC001
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 18 01:27:33 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Fri Apr 18 01:24:29 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.791	49	124177	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.962	114	359907	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.885	117	329090	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.377	95	269087	9.950	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 99.500%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.499	85	22816	1.040	ppbv		93
3) Chlorodifluoromethane	1.476	51	20573	0.985	ppbv		97
4) Chloromethane	1.535	50	9008	1.038	ppbv		99
5) Vinyl Chloride	1.580	62	8807	0.932	ppbv		98
6) Bromomethane	1.671	94	4099	1.001	ppbv		91
7) Chloroethane	1.706	64	3559	1.041	ppbv		90
8) Dichlorotetrafluoroethane	1.554	85	19251	1.022	ppbv		100
9) Propene	1.486	41	9892	1.040	ppbv		92
10) Heptane	4.982	43	28507m	1.114	ppbv		
11) Trichlorofluoromethane	1.878	101	22428	1.075	ppbv		99
12) 1,1,2-Trichlorotrifluo...	2.140	101	17865	1.047	ppbv		98
13) Ethanol	1.722	45	1730m	2.225	ppbv		
14) Bromoethene	1.784	108	6766	1.052	ppbv	#	89
15) Acetone	1.839	43	23537	1.158	ppbv		97
16) 1,3-Butadiene	1.609	39	10377m	1.087	ppbv		
17) tert-Butyl alcohol	2.043	59	26477	1.051	ppbv	#	90
18) 1,1-Dichloroethene	2.036	96	7890	0.962	ppbv		94
19) Isopropyl Alcohol	1.888	45	12175	1.078	ppbv	#	39
20) Methylene Chloride	2.062	84	9046	1.136	ppbv		87
21) Allyl Chloride	2.098	41	15057	1.073	ppbv		91
22) trans-1,2-Dichloroethene	2.344	96	9421	1.038	ppbv		96
23) Vinyl Acetate	2.467	43	9234	1.122	ppbv	#	90
24) 1,1-Dichloroethane	2.409	63	18236	1.058	ppbv		99
25) Ethyl Acetate	2.842	43	51494	1.027	ppbv	#	97
26) Hexane	2.826	57	21350	1.053	ppbv		95
27) Carbon Disulfide	2.153	76	20739	0.955	ppbv	#	1
28) Methyl tert-Butyl Ether	2.444	73	14164	1.066	ppbv	#	85
29) Chloroform	2.852	83	28973	1.011	ppbv		100
30) Cyclohexane	3.862	84	16547m	1.013	ppbv		
31) cis-1,2-Dichloroethene	2.723	61	19904	1.032	ppbv		97
32) 1,1,1-Trichloroethane	3.376	97	31653	1.030	ppbv		98
34) 2-Butanone	2.564	43	29735	1.045	ppbv		99
35) Carbon Tetrachloride	3.768	117	29875	0.917	ppbv		94
36) Benzene	3.661	78	38707	0.997	ppbv		95
37) 1,2-Dichloroethane	3.224	62	23284	0.999	ppbv		97
38) Trichloroethene	4.551	130	16119	0.947	ppbv		96
39) 1,2-Dichloropropane	4.318	63	14866	1.027	ppbv		96
40) 1,4-Dioxane	4.597	88	8737m	1.114	ppbv		
41) Tetrahydrofuran	3.062	42	17259	1.049	ppbv		96
42) Bromodichloromethane	4.490	83	32721	1.009	ppbv	#	98
43) Methyl Methacrylate	4.885	69	18699m	1.073	ppbv		
44) 2,2,4-Trimethylpentane	4.642	57	68946m	1.027	ppbv		
45) t-1,3-Dichloropropene	6.416	75	18347m	1.026	ppbv		

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042351.D
Acq On : 17 Apr 2025 10:48
Operator : SY/MD
Sample : VSTDICC001
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 18 01:27:33 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Apr 18 01:24:29 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) cis-1,3-Dichloropropene	5.603	75	22189m	1.015	ppbv		
47) 1,1,2-Trichloroethane	6.587	97	15457m	1.048	ppbv		
48) Dibromochloromethane	7.390	129	25948	0.997	ppbv		100
49) Bromoform	9.484	173	22413	0.984	ppbv		98
50) 4-Methyl-2-Pentanone	5.765	43	49725	1.049	ppbv		97
51) 2-Hexanone	7.445	43	47178	1.103	ppbv		99
52) Tetrachloroethene	8.228	164	14154	0.943	ppbv		93
53) Toluene	6.940	91	46611	1.001	ppbv		100
54) 1,2-Dibromoethane	7.658	107	21780	1.036	ppbv		93
56) 1,1,1,2-Tetrachloroethane	8.927	131	21052	1.057	ppbv		95
57) Chlorobenzene	8.921	112	35113	1.026	ppbv	#	95
58) Ethyl Benzene	9.354	91	68703	1.054	ppbv		96
59) m/p-Xylene	9.552	91	110702m	2.101	ppbv		
60) o-Xylene	9.966	91	55831	1.056	ppbv		99
61) Styrene	9.872	104	25544	1.012	ppbv		100
62) Isopropylbenzene	10.542	105	81286	1.047	ppbv		100
63) 1,1,2,2-Tetrachloroethane	9.966	83	32410	0.943	ppbv		99
64) n-propylbenzene	10.989	120	19898	1.019	ppbv		90
65) tert-Butylbenzene	11.533	119	77598	1.087	ppbv		92
66) Benzyl Chloride	11.617	91	7864	1.003	ppbv	#	91
67) sec-Butylbenzene	11.769	105	105919	1.067	ppbv		97
69) p-Isopropyltoluene	11.928	119	92733	1.075	ppbv		97
70) n-Butylbenzene	12.284	91	96306	1.072	ppbv		99
71) 2-Chlorotoluene	10.905	91	63321	1.040	ppbv		99
72) 4-Ethyltoluene	11.128	105	69698	1.078	ppbv		99
73) 1,3,5-Trimethylbenzene	11.206	105	60927	1.067	ppbv		99
74) 1,2,4-Trimethylbenzene	11.539	105	73888	1.108	ppbv		95
75) 1,3-Dichlorobenzene	11.610	146	36877	1.064	ppbv		98
76) 1,4-Dichlorobenzene	11.675	146	36692	1.053	ppbv		98
77) 1,2-Dichlorobenzene	11.950	146	35977	1.068	ppbv		97
78) Hexachloro-1,3-Butadiene	13.886	225	37377	1.098	ppbv		99
79) Naphthalene	13.517	128	90710	1.138	ppbv		99
80) Naphthalene,2-methyl-	14.462	142	50487	1.111	ppbv		98
81) 1,2,4-Trichlorobenzene	13.442	180	36764	1.074	ppbv		99

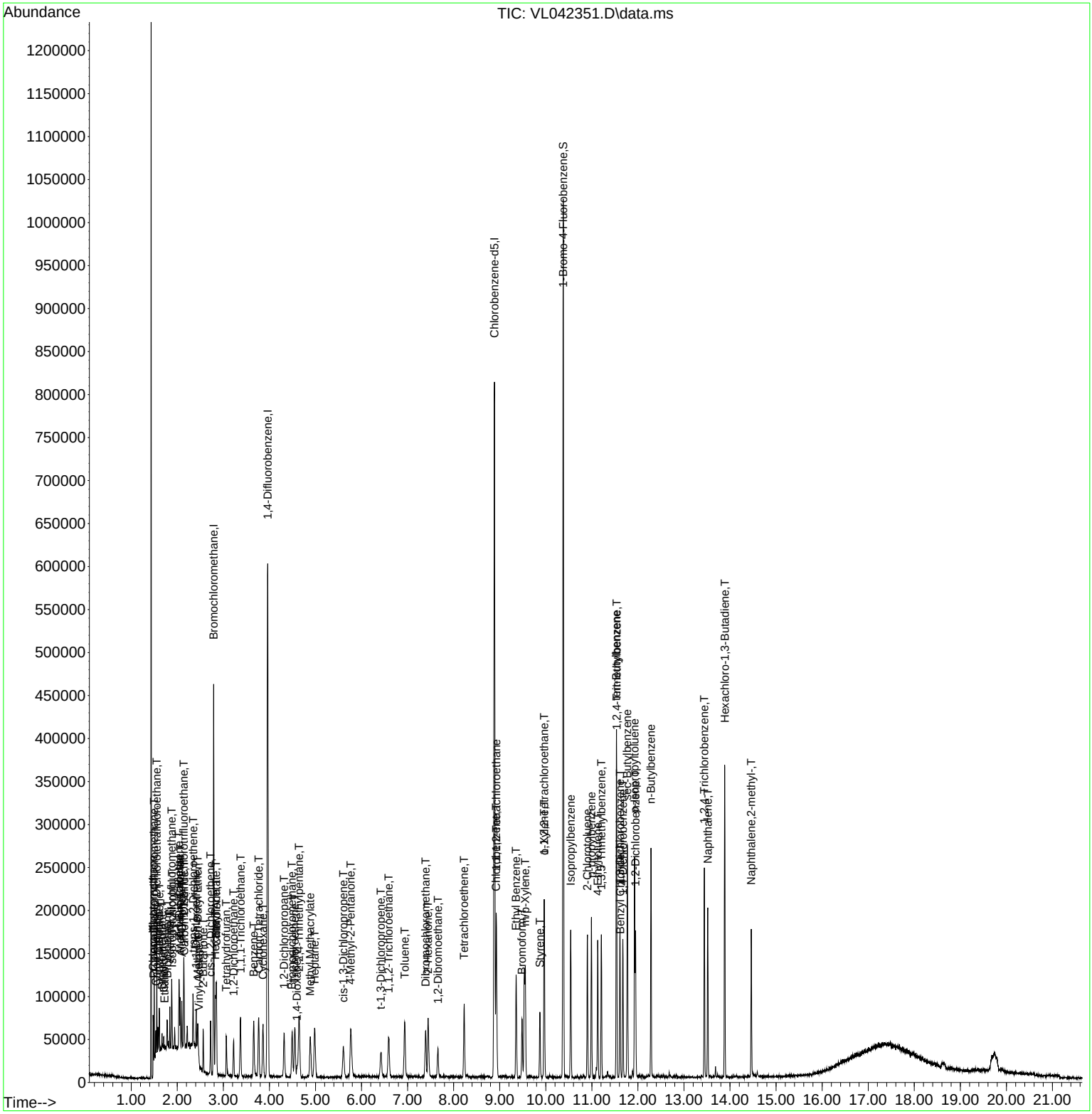
(#) = qualifier out of range (m) = manual integration (+) = signals summed

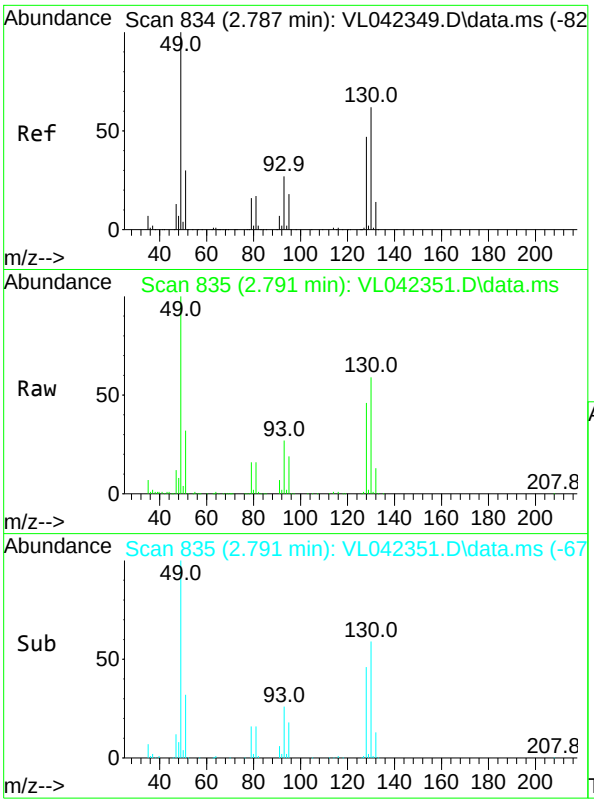
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Data File : VL042351.D
Acq On : 17 Apr 2025 10:48
Operator : SY/MD
Sample : VSTDICC001
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 18 01:27:33 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Apr 18 01:24:29 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

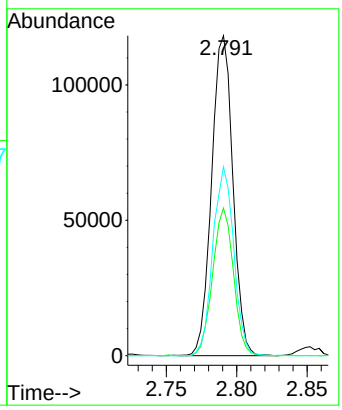




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.791 min Scan# 8
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 49 Resp: 12417

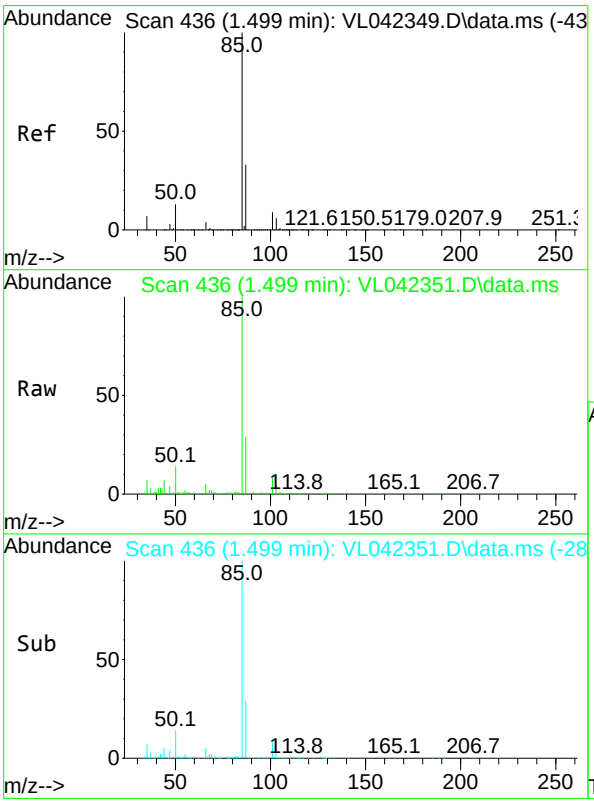
Ion	Ratio	Lower	Upper
49	100		
128	45.2	22.8	68.4
130	58.1	29.3	88.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

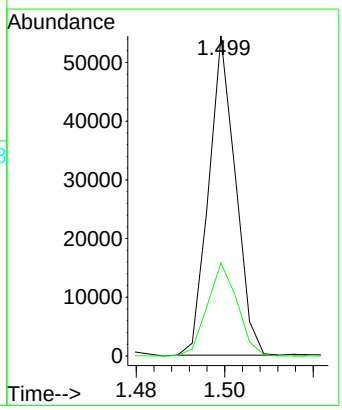
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

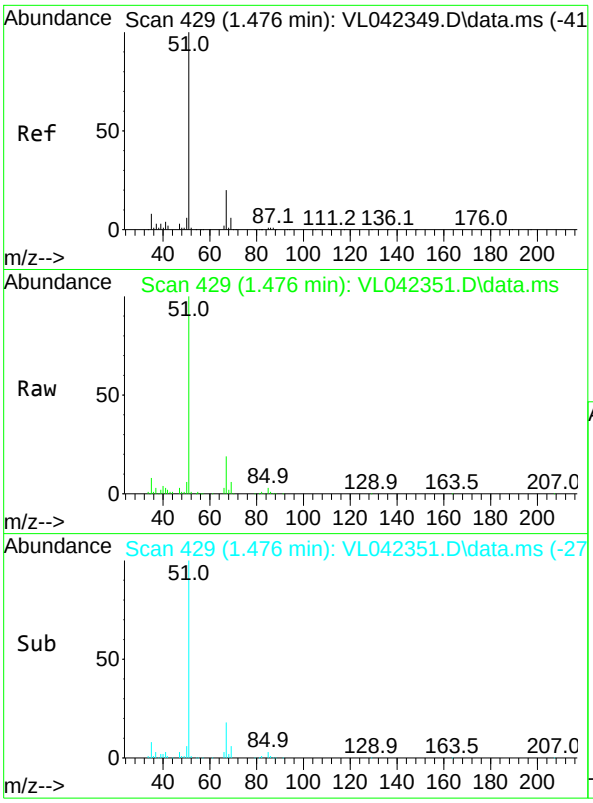


#2
Dichlorodifluoromethane
Concen: 1.040 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 85 Resp: 22816

Ion	Ratio	Lower	Upper
85	100		
87	29.1	26.6	39.8

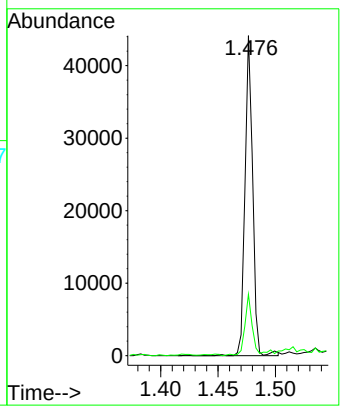




#3
Chlorodifluoromethane
Concen: 0.985 ppbv
RT: 1.476 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 51 Resp: 2057

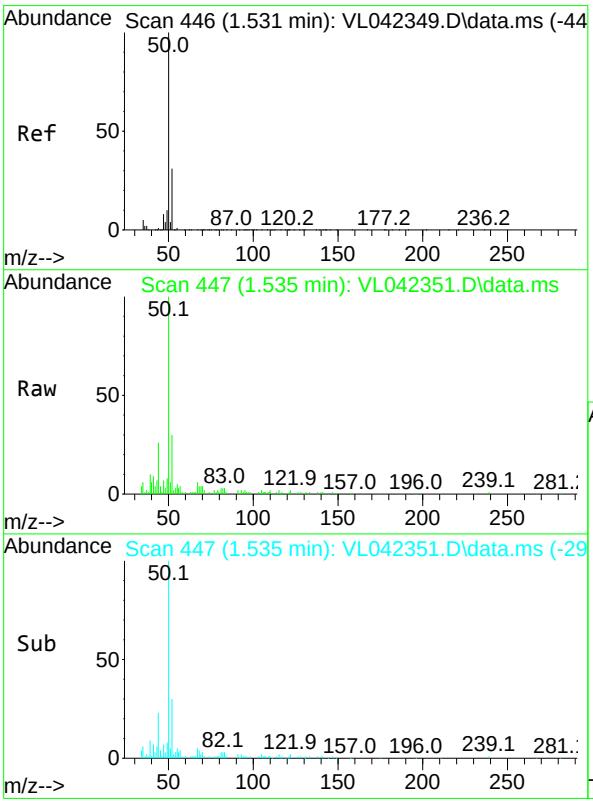
Ion	Ratio	Lower	Upper
51	100		
67	19.1	16.2	24.4



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

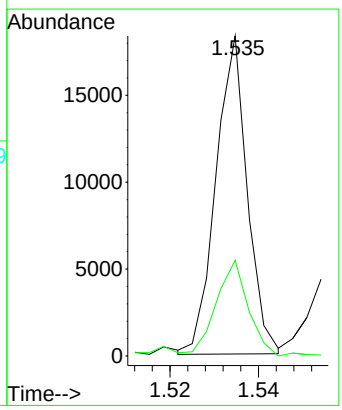
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

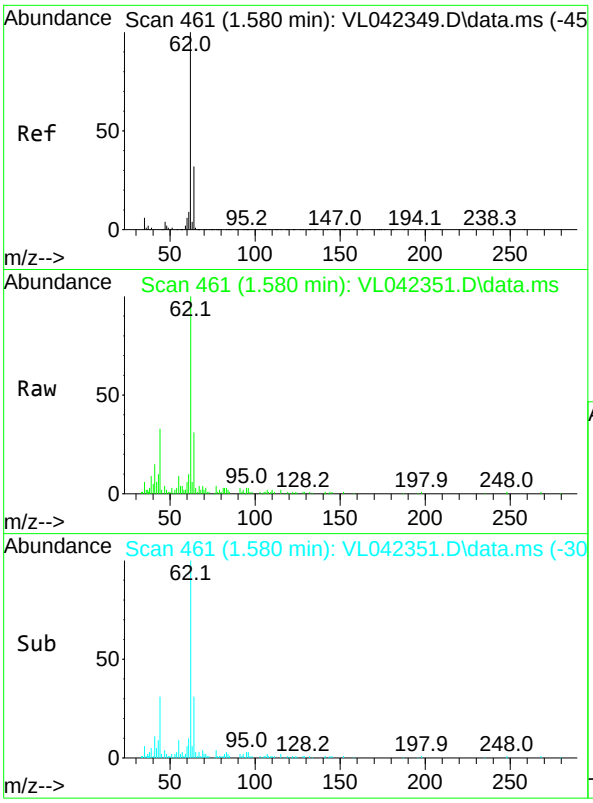


#4
Chloromethane
Concen: 1.038 ppbv
RT: 1.535 min Scan# 447
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 50 Resp: 9008

Ion	Ratio	Lower	Upper
50	100		
52	30.4	24.7	37.1

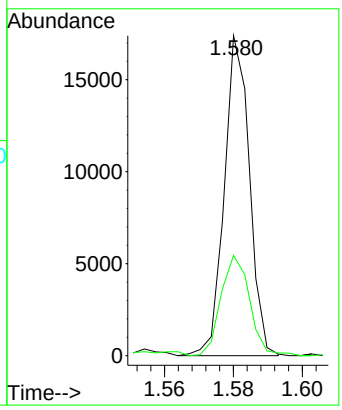




#5
Vinyl Chloride
Concen: 0.932 ppbv
RT: 1.580 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 62 Resp: 880

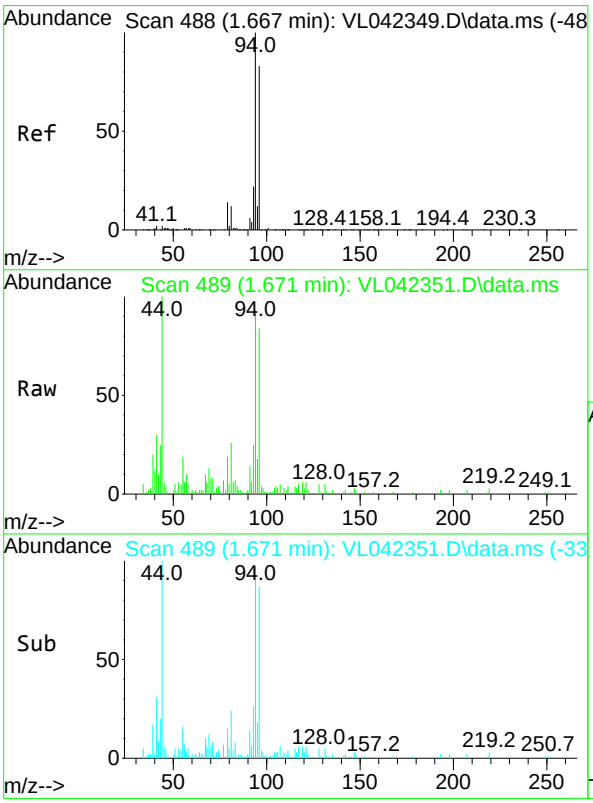
Ion	Ratio	Lower	Upper
62	100		
64	30.5	25.4	38.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

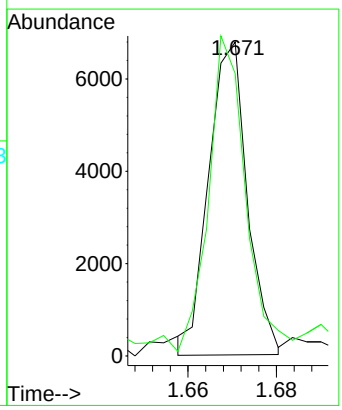
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

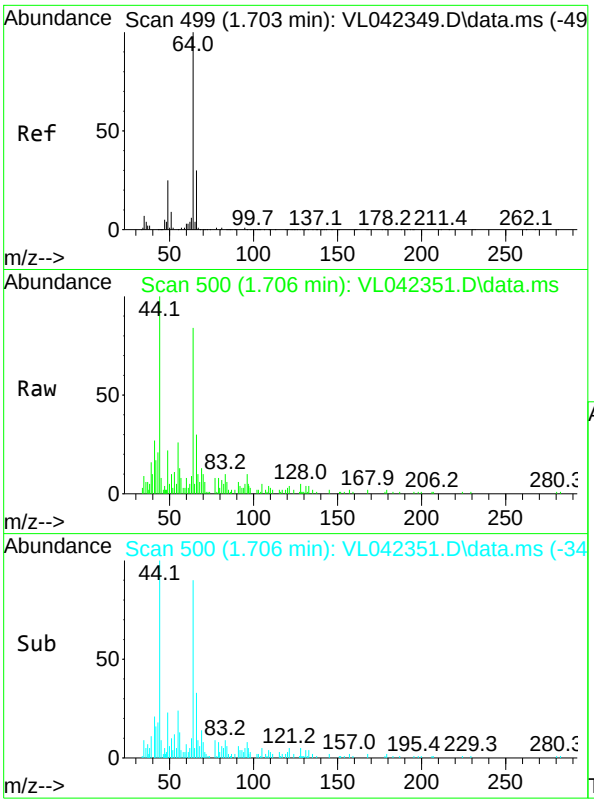


#6
Bromomethane
Concen: 1.001 ppbv
RT: 1.671 min Scan# 489
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 94 Resp: 4099

Ion	Ratio	Lower	Upper
94	100		
96	91.0	66.2	99.2

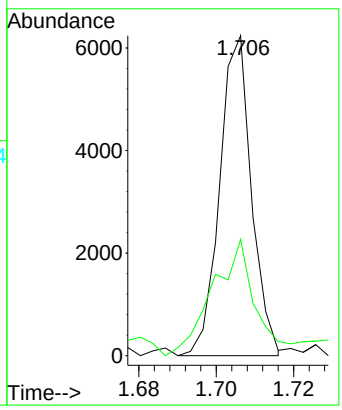




#7
Chloroethane
Concen: 1.041 ppbv
RT: 1.706 min Scan# 5
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 64 Resp: 355

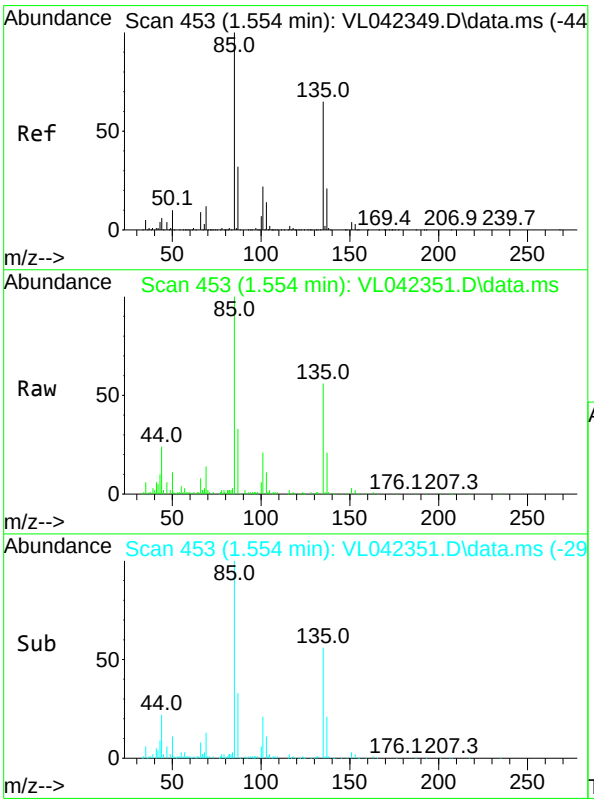
Ion	Ratio	Lower	Upper
64	100		
66	36.3	24.6	37.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

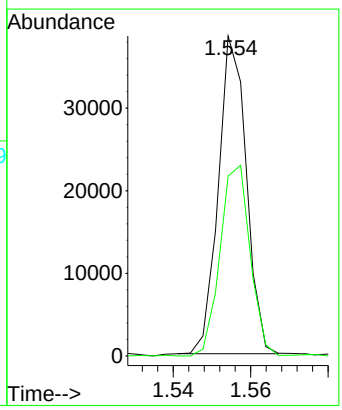
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

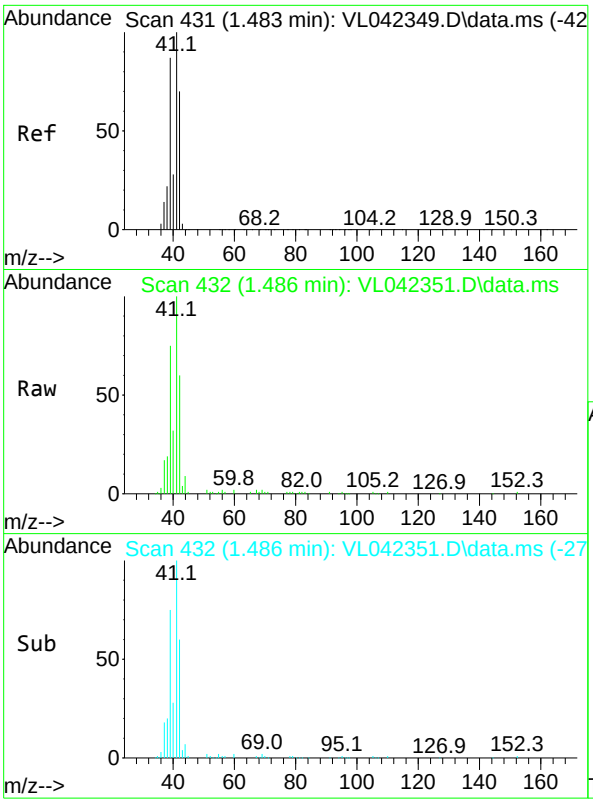


#8
Dichlorotetrafluoroethane
Concen: 1.022 ppbv
RT: 1.554 min Scan# 453
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 85 Resp: 19251

Ion	Ratio	Lower	Upper
85	100		
135	65.2	52.2	78.2

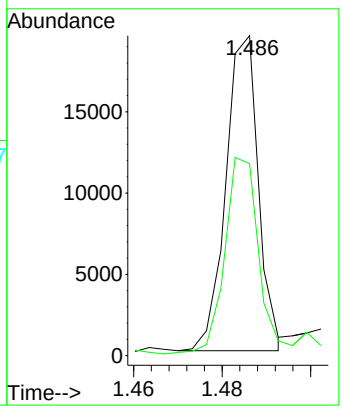




#9
Propene
Concen: 1.040 ppbv
RT: 1.486 min Scan# 4
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 41 Resp: 989

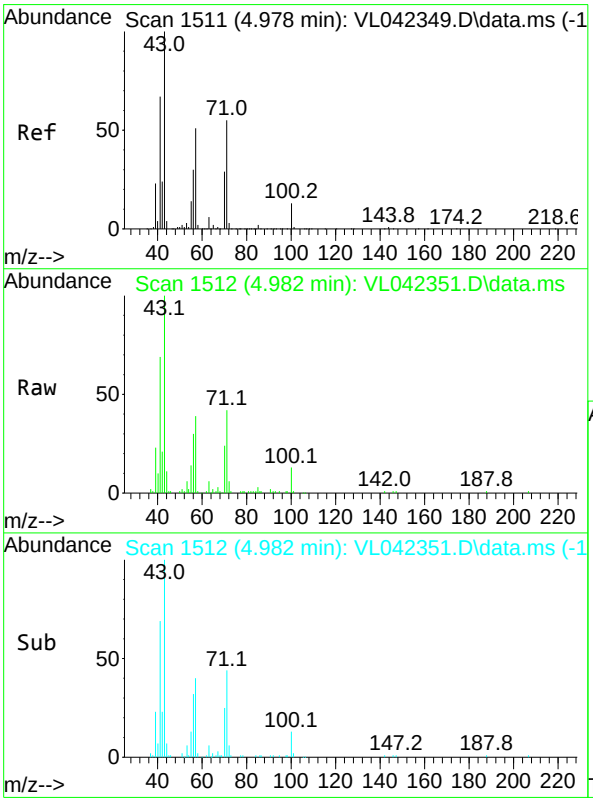
Ion	Ratio	Lower	Upper
41	100		
42	77.2	56.2	84.4



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

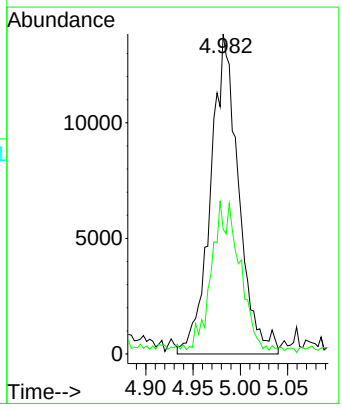
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

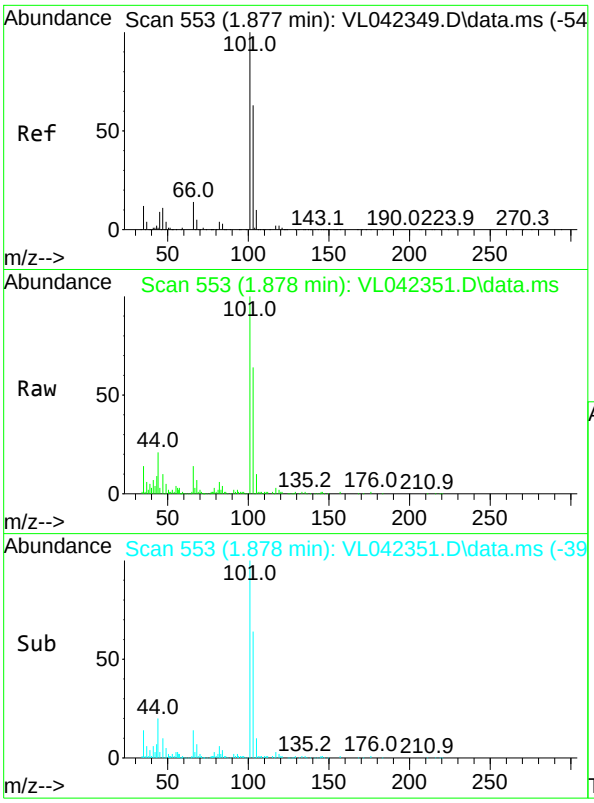


#10
Heptane
Concen: 1.114 ppbv m
RT: 4.982 min Scan# 1512
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 43 Resp: 28507

Ion	Ratio	Lower	Upper
43	100		
57	48.1	39.9	59.9





#11
Trichlorofluoromethane
Concen: 1.075 ppbv
RT: 1.878 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

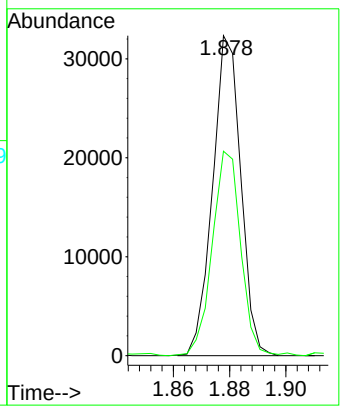
Tgt Ion:101 Resp: 2242

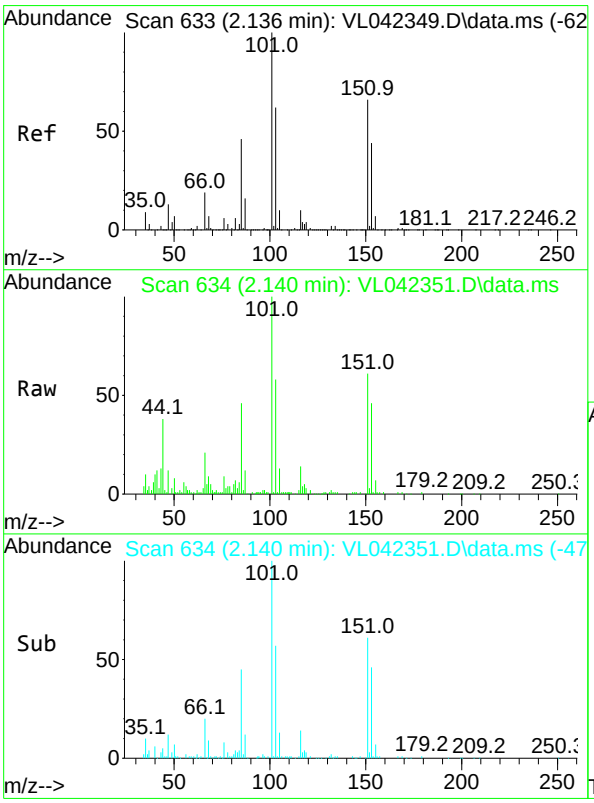
Ion	Ratio	Lower	Upper
101	100		
103	63.6	50.1	75.1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

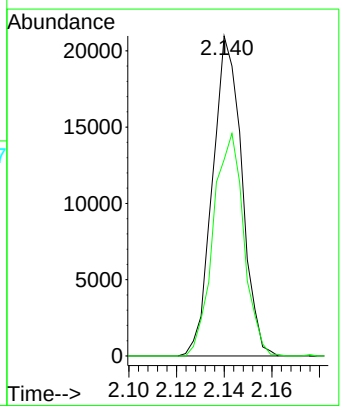


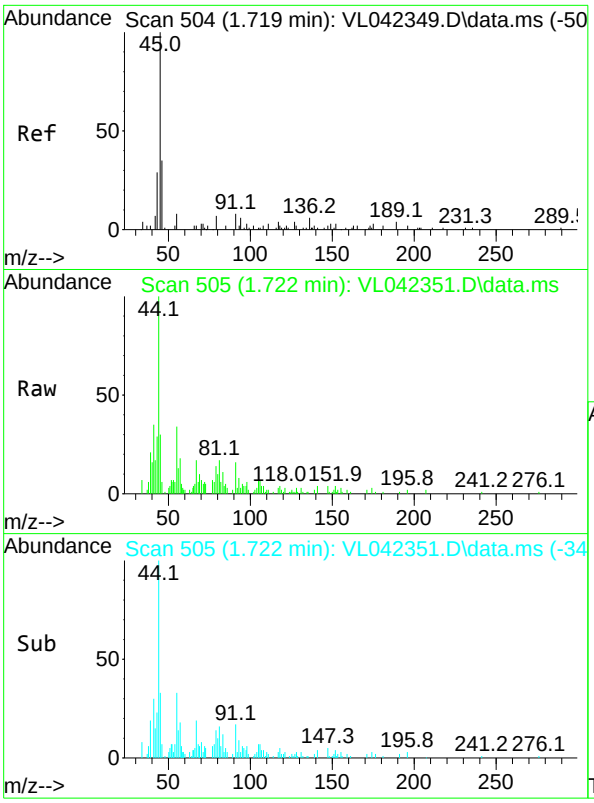


#12
1,1,2-Trichlorotrifluoroethane
Concen: 1.047 ppbv
RT: 2.140 min Scan# 634
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion:101 Resp: 17865

Ion	Ratio	Lower	Upper
101	100		
151	72.6	57.0	85.6

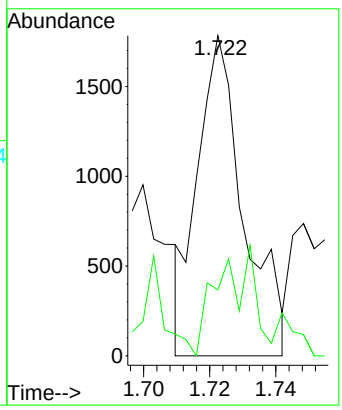




#13
Ethanol
Concen: 2.225 ppbv m
RT: 1.722 min Scan# 5(
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 45 Resp: 173(

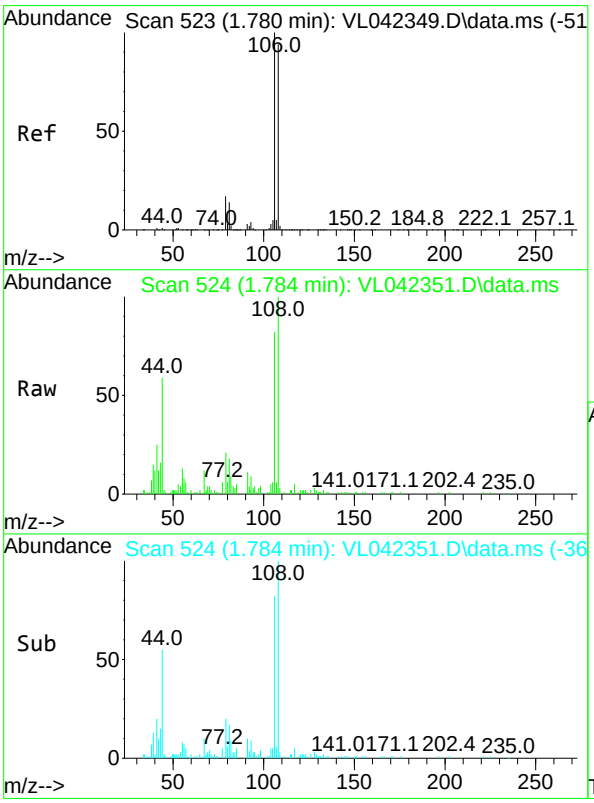
Ion	Ratio	Lower	Upper
45	100		
46	44.9	21.9	87.7



Instrument :
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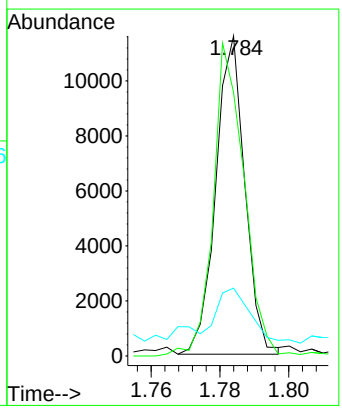
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

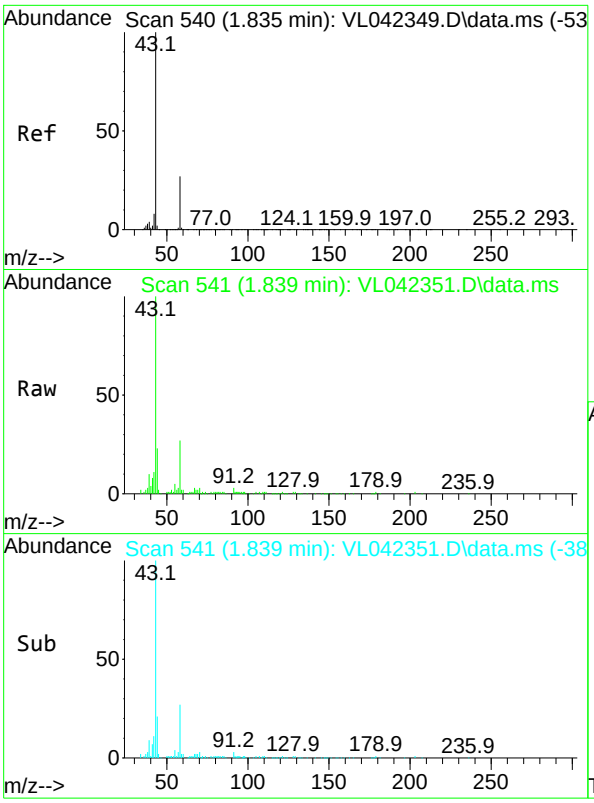


#14
Bromoethene
Concen: 1.052 ppbv
RT: 1.784 min Scan# 524
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion:108 Resp: 6766

Ion	Ratio	Lower	Upper
108	100		
106	104.7	85.9	128.9
79	45.4	13.9	20.9#

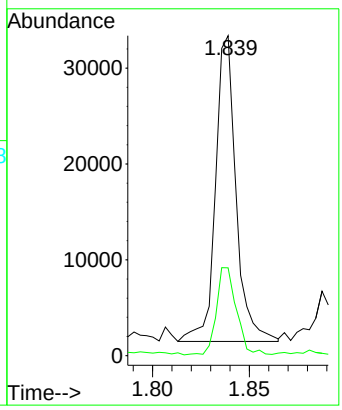




#15
Acetone
Concen: 1.158 ppbv
RT: 1.839 min Scan# 54
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 43 Resp: 2353

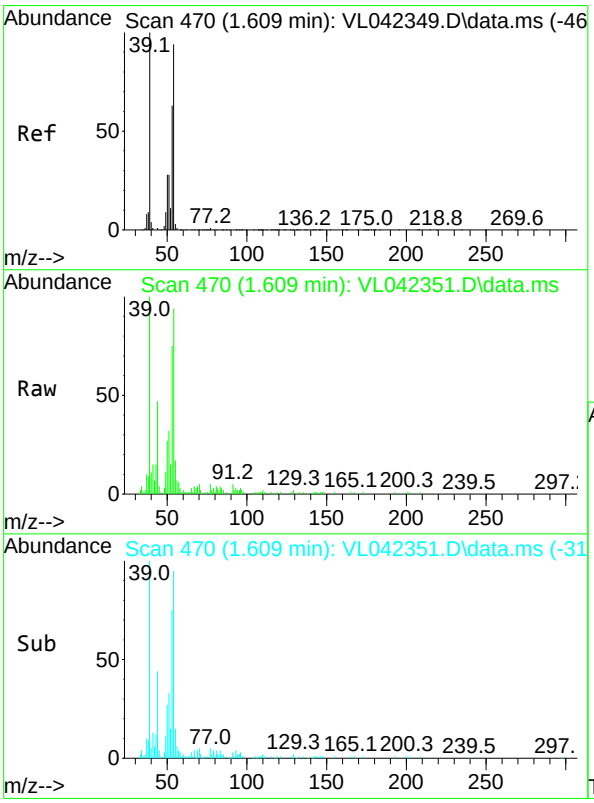
Ion	Ratio	Lower	Upper
43	100		
58	29.4	22.4	33.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
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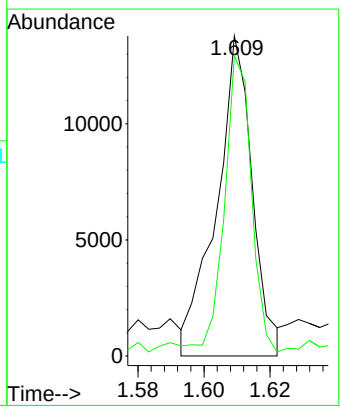
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

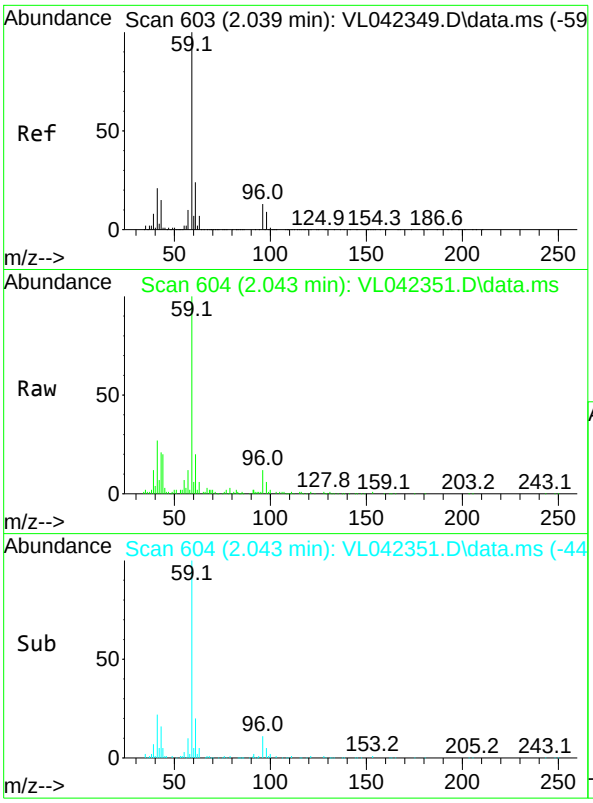


#16
1,3-Butadiene
Concen: 1.087 ppbv m
RT: 1.609 min Scan# 470
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 39 Resp: 10377

Ion	Ratio	Lower	Upper
39	100		
54	71.0	64.9	97.3





#17
tert-Butyl alcohol
Concen: 1.051 ppbv
RT: 2.043 min Scan# 6
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

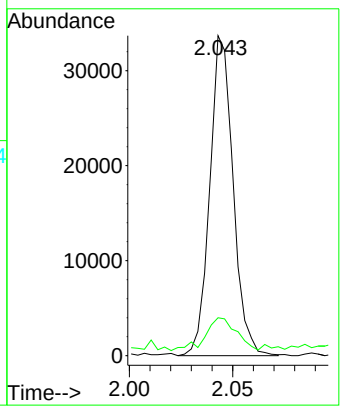
Tgt Ion: 59 Resp: 2647

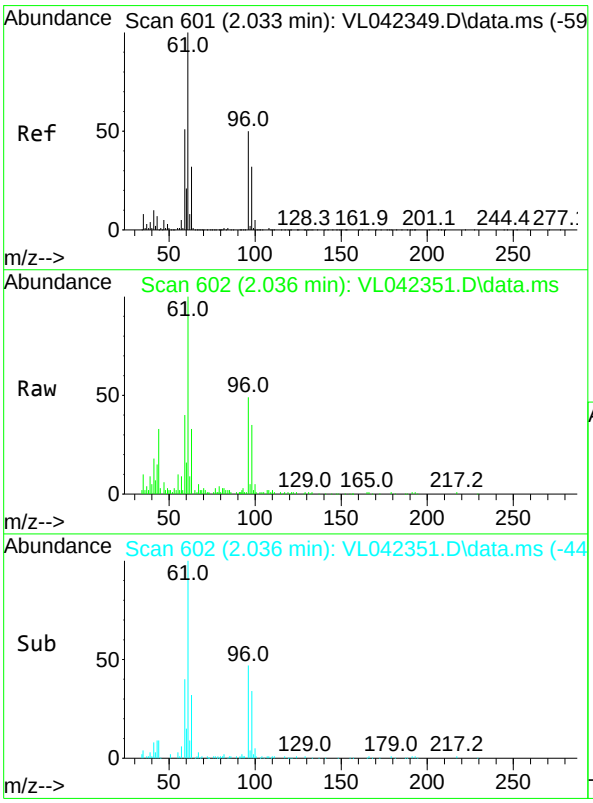
Ion	Ratio	Lower	Upper
59	100		
57	14.6	8.7	13.1#

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

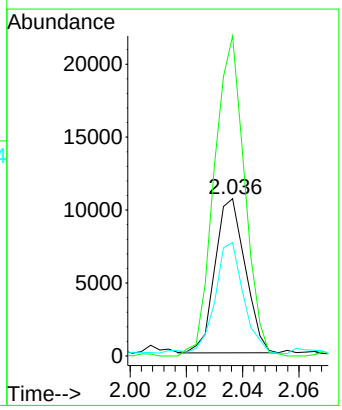


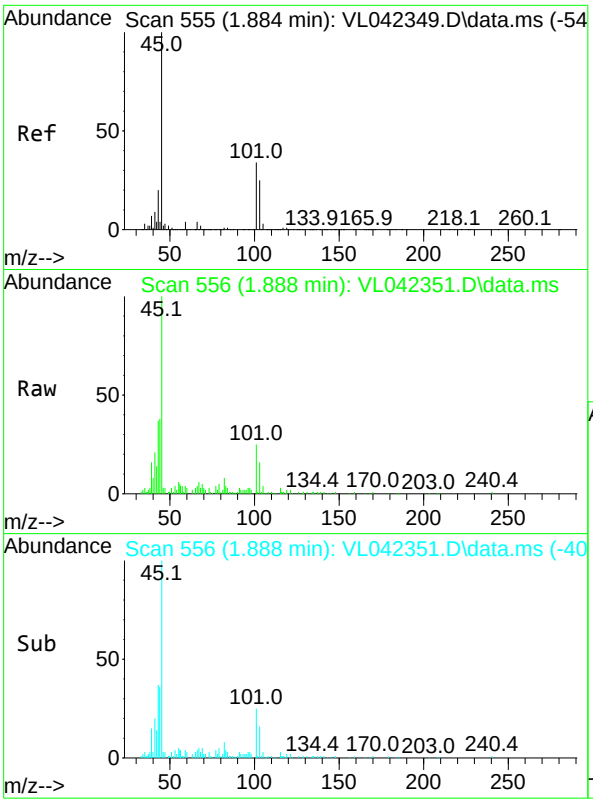


#18
1,1-Dichloroethene
Concen: 0.962 ppbv
RT: 2.036 min Scan# 602
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 96 Resp: 7890

Ion	Ratio	Lower	Upper
96	100		
61	207.8	160.2	240.2
98	71.9	51.0	76.4

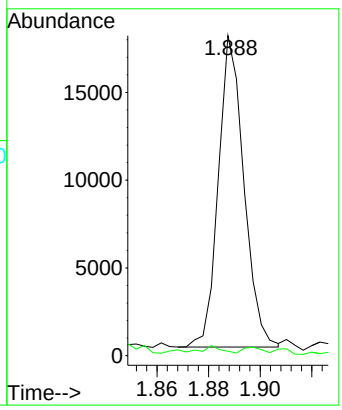




#19
Isopropyl Alcohol
Concen: 1.078 ppbv
RT: 1.888 min Scan# 5
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 45 Resp: 1217

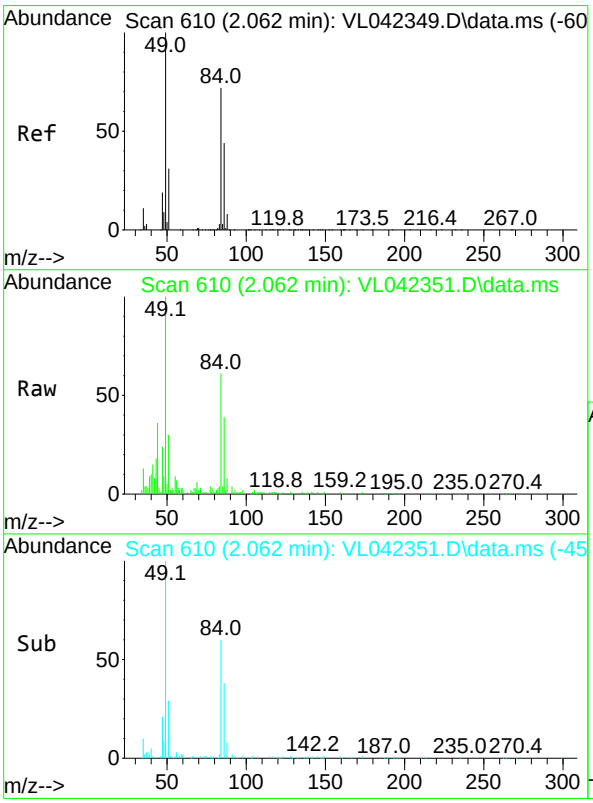
Ion	Ratio	Lower	Upper
45	100		
58	3.8	34.5	51.7#



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

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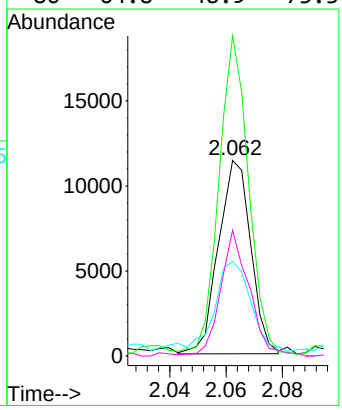
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

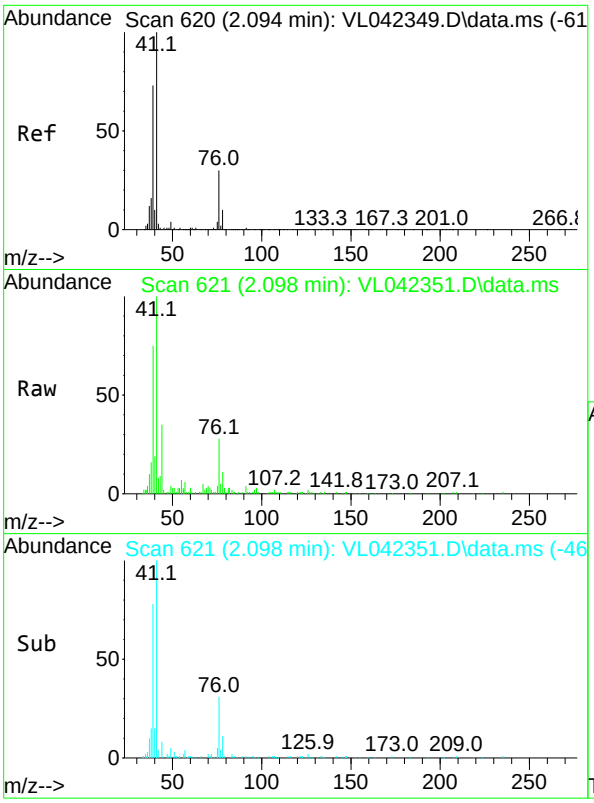


#20
Methylene Chloride
Concen: 1.136 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 84 Resp: 9046

Ion	Ratio	Lower	Upper
84	100		
49	164.4	111.6	167.4
51	44.4	35.1	52.7
86	64.8	48.9	73.3

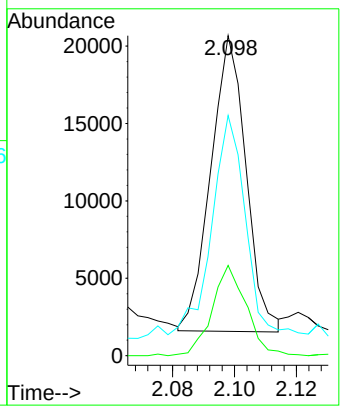




#21
Allyl Chloride
Concen: 1.073 ppbv
RT: 2.098 min Scan# 6
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 41 Resp: 1505

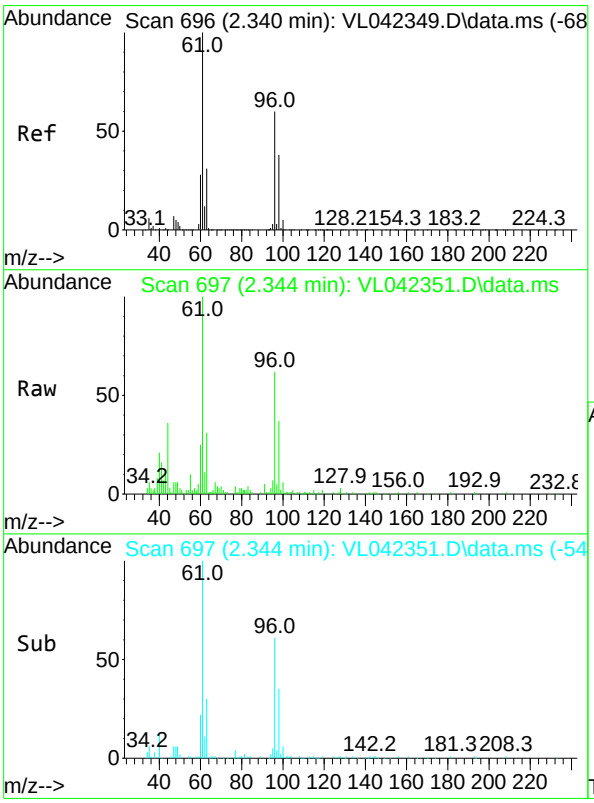
Ion	Ratio	Lower	Upper
41	100		
76	29.8	24.8	37.2
39	86.1	60.6	90.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
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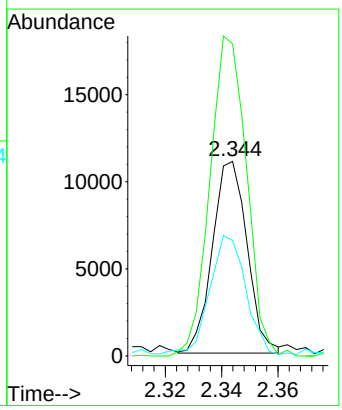
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

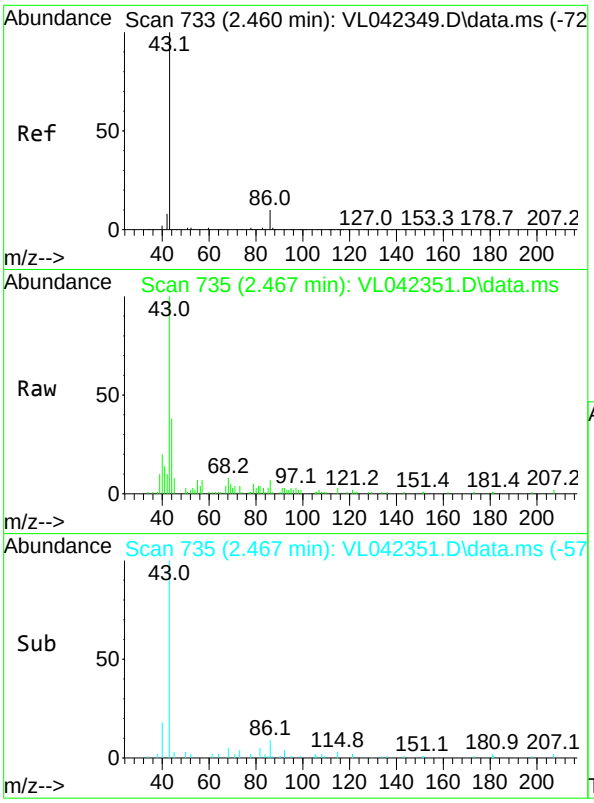


#22
trans-1,2-Dichloroethene
Concen: 1.038 ppbv
RT: 2.344 min Scan# 697
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 96 Resp: 9421

Ion	Ratio	Lower	Upper
96	100		
61	161.7	133.7	200.5
98	59.8	50.3	75.5

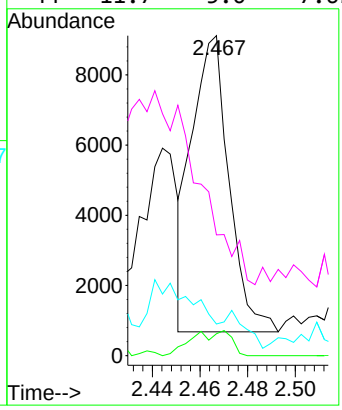




#23
Vinyl Acetate
Concen: 1.122 ppbv
RT: 2.467 min Scan# 7
Delta R.T. 0.007 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 43 Resp: 923

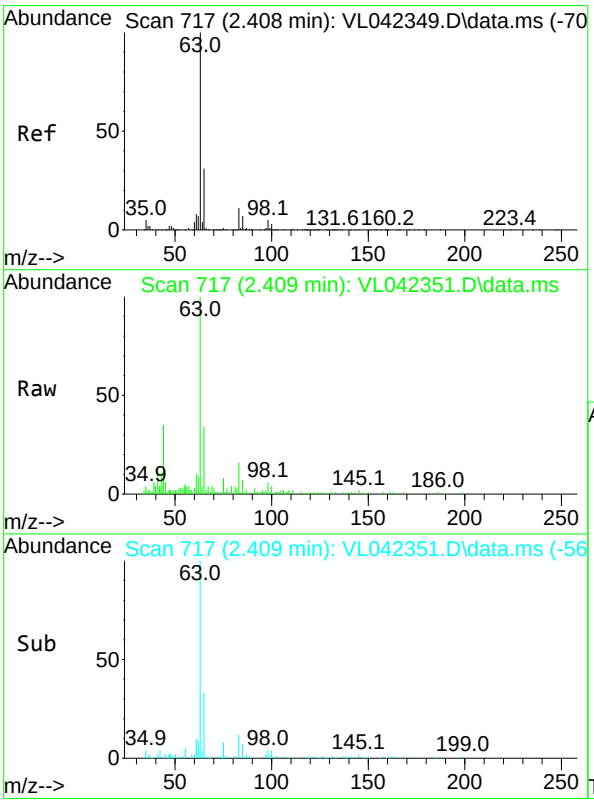
Ion	Ratio	Lower	Upper
43	100		
86	7.4	6.5	9.7
42	4.6	7.8	11.8#
44	11.7	5.0	7.6#



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
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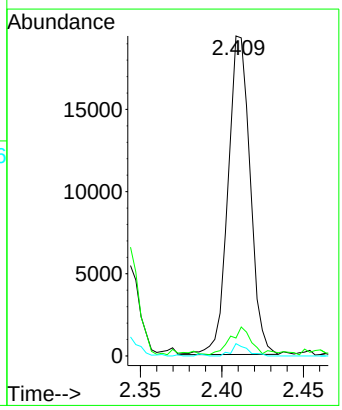
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

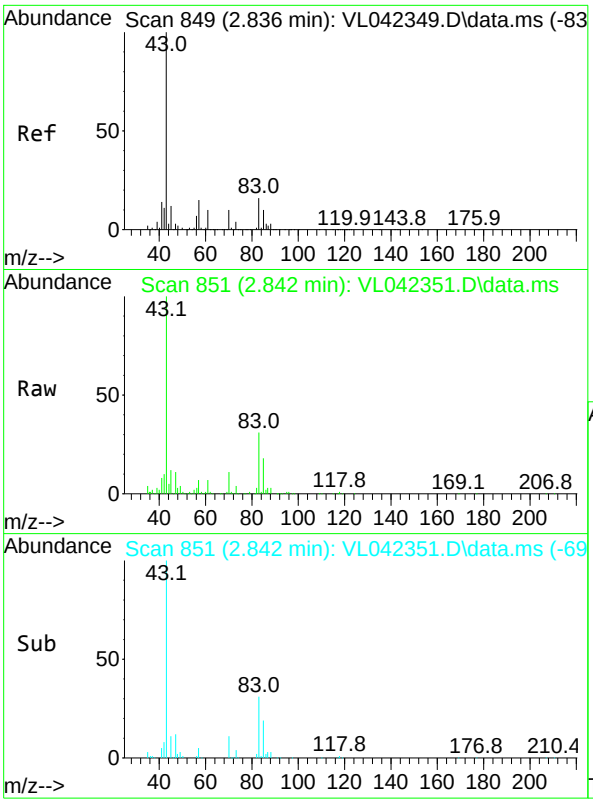


#24
1,1-Dichloroethane
Concen: 1.058 ppbv
RT: 2.409 min Scan# 717
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 63 Resp: 18236

Ion	Ratio	Lower	Upper
63	100		
98	4.7	2.3	6.8
100	3.9	1.6	4.8

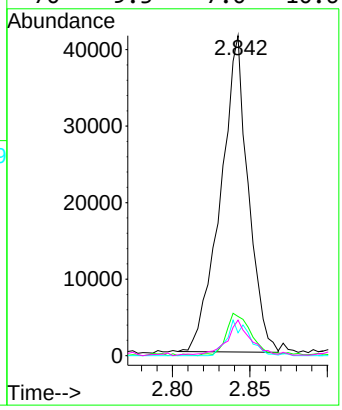




#25
Ethyl Acetate
Concen: 1.027 ppbv
RT: 2.842 min Scan# 8
Delta R.T. 0.007 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 43 Resp: 5149

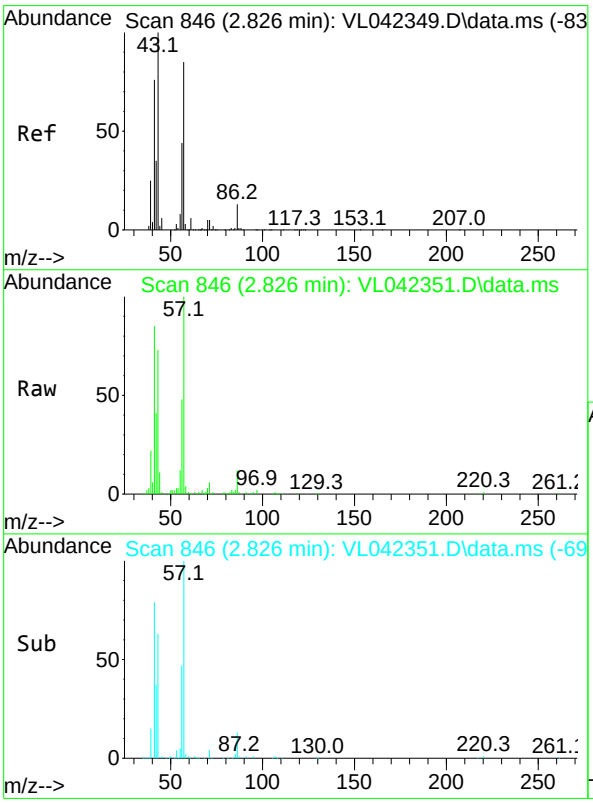
Ion	Ratio	Lower	Upper
43	100		
45	13.1	8.3	12.5
61	9.0	7.3	10.9
70	9.3	7.0	10.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
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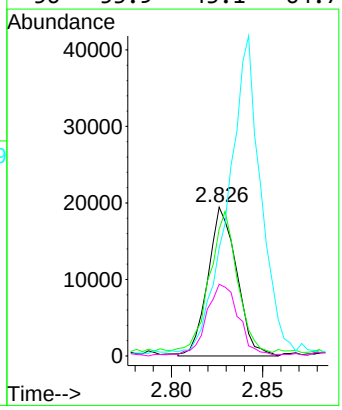
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

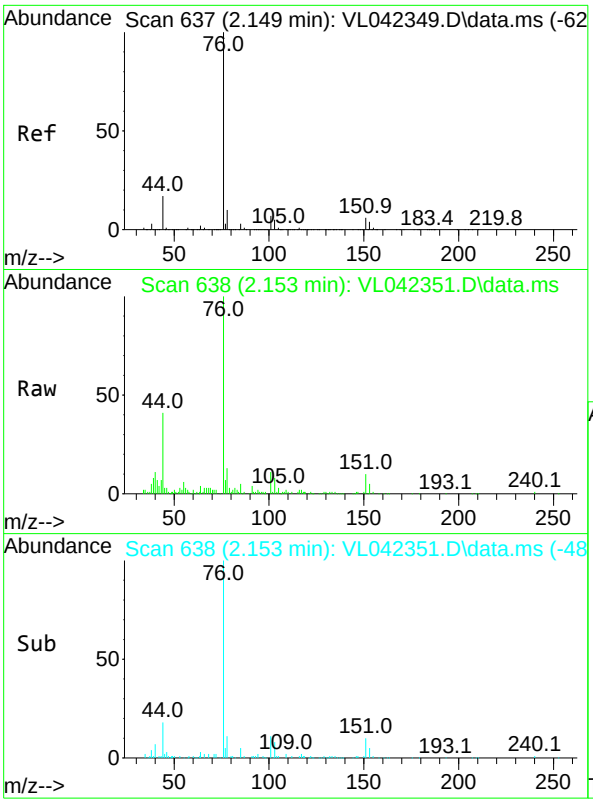


#26
Hexane
Concen: 1.053 ppbv
RT: 2.826 min Scan# 846
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 57 Resp: 21350

Ion	Ratio	Lower	Upper
57	100		
41	95.3	77.9	116.9
43	247.5	208.4	312.6
56	53.9	43.1	64.7

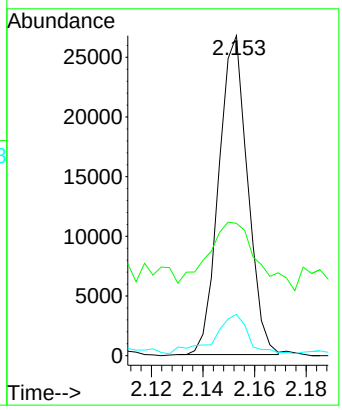




#27
Carbon Disulfide
Concen: 0.955 ppbv
RT: 2.153 min Scan# 6
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 76 Resp: 2073

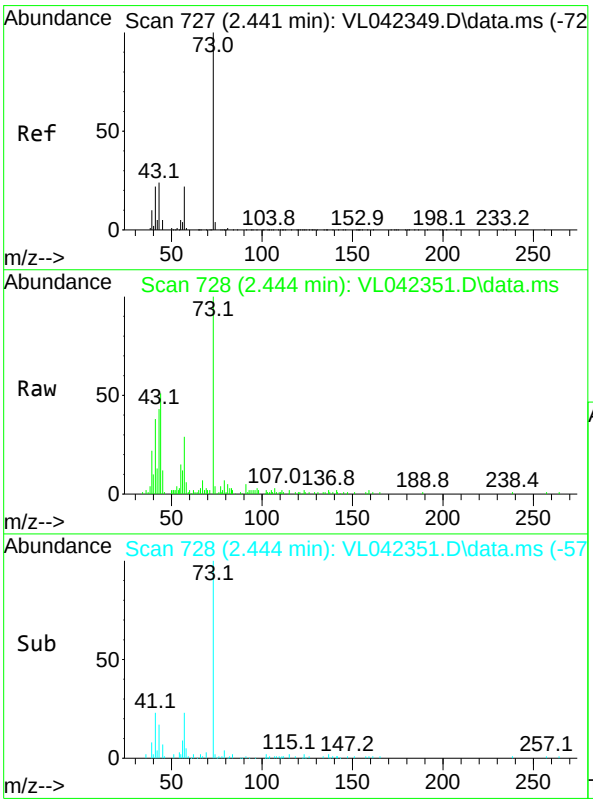
Ion	Ratio	Lower	Upper
76	100		
44	93.1	15.5	23.3#
78	19.8	9.3	13.9#



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
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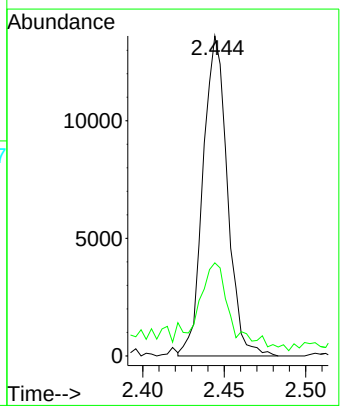
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

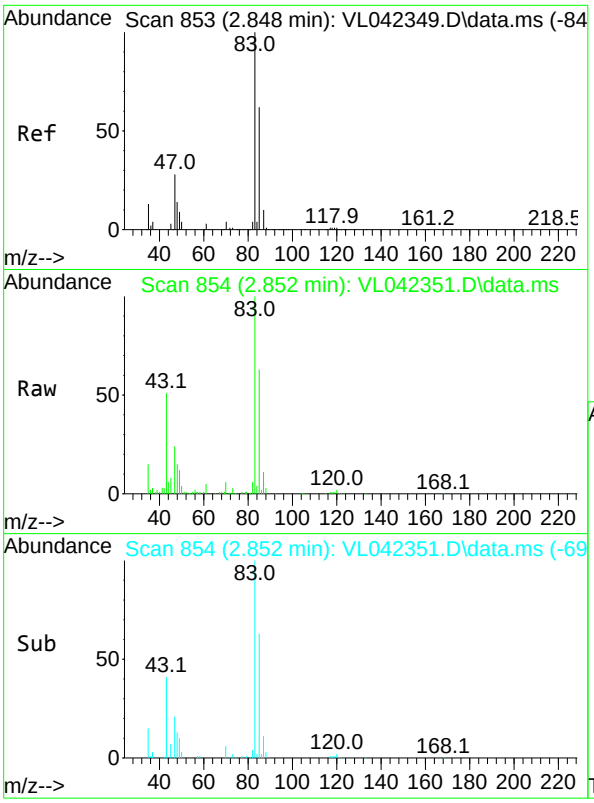


#28
Methyl tert-Butyl Ether
Concen: 1.066 ppbv
RT: 2.444 min Scan# 728
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 73 Resp: 14164

Ion	Ratio	Lower	Upper
73	100		
57	34.2	21.3	31.9#

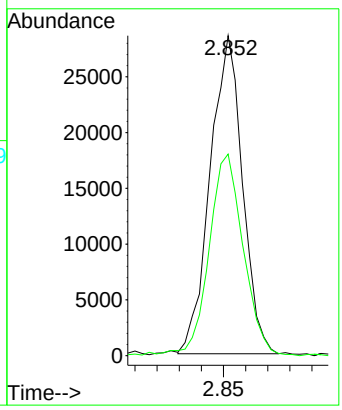




#29
Chloroform
Concen: 1.011 ppbv
RT: 2.852 min Scan# 8
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 83 Resp: 2897

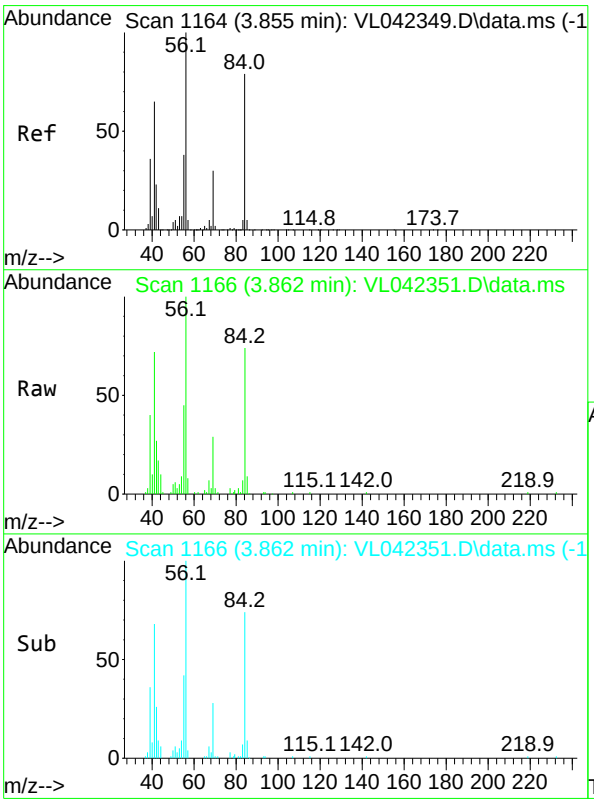
Ion	Ratio	Lower	Upper
83	100		
85	62.6	50.0	75.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
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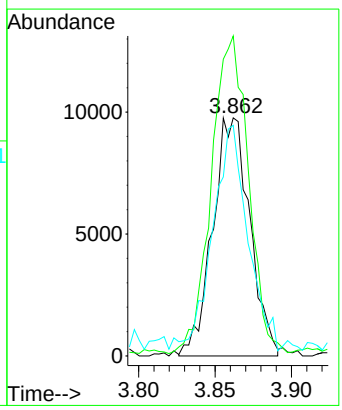
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

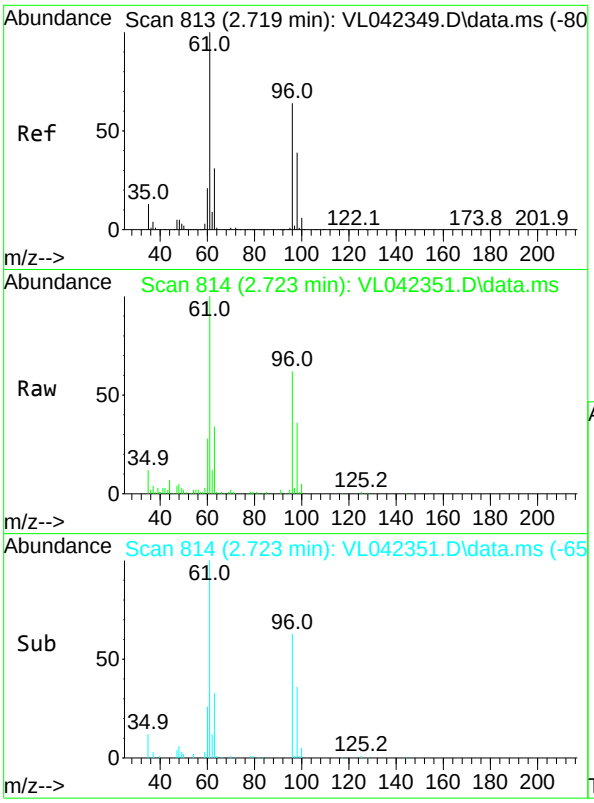


#30
Cyclohexane
Concen: 1.013 ppbv m
RT: 3.862 min Scan# 1166
Delta R.T. 0.007 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 84 Resp: 16547

Ion	Ratio	Lower	Upper
84	100		
56	134.2	101.0	151.4
41	85.1	67.4	101.0

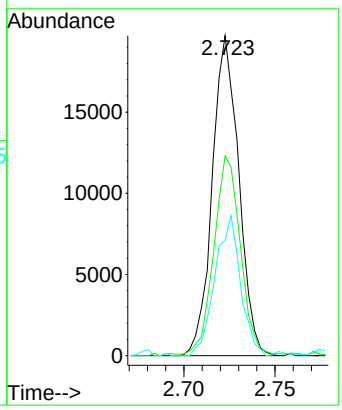




#31
cis-1,2-Dichloroethene
Concen: 1.032 ppbv
RT: 2.723 min Scan# 8
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 61 Resp: 1990

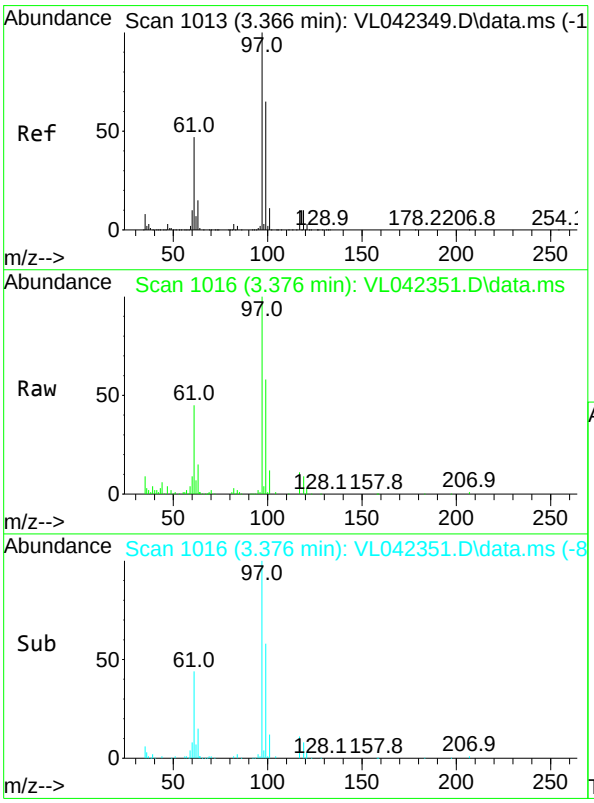
Ion	Ratio	Lower	Upper
61	100		
96	61.9	50.8	76.2
98	35.9	30.9	46.3



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

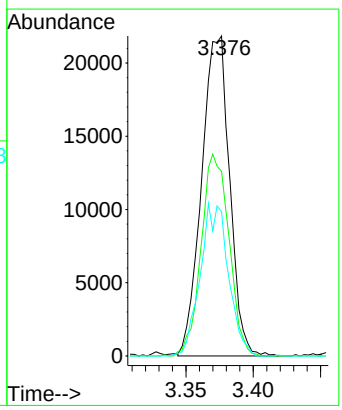
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

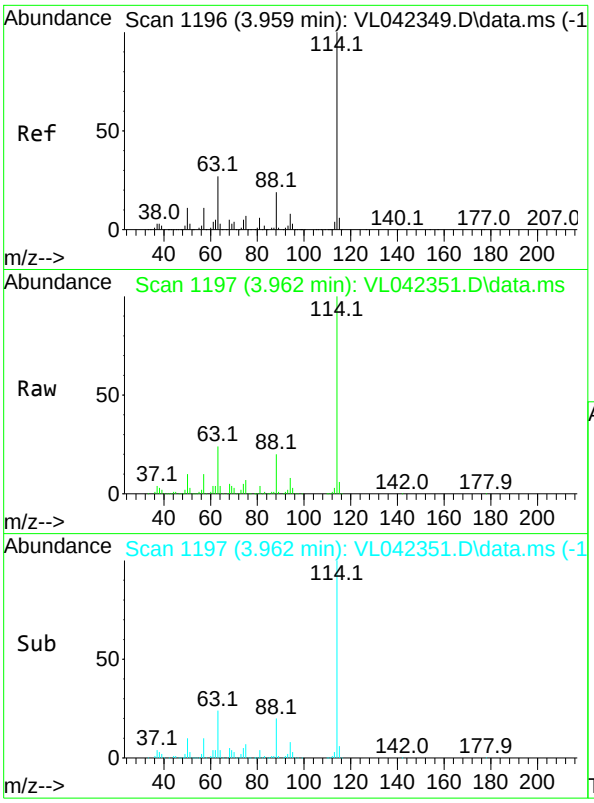


#32
1,1,1-Trichloroethane
Concen: 1.030 ppbv
RT: 3.376 min Scan# 1016
Delta R.T. 0.010 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 97 Resp: 31653

Ion	Ratio	Lower	Upper
97	100		
99	62.4	51.0	76.4
61	47.6	38.8	58.2

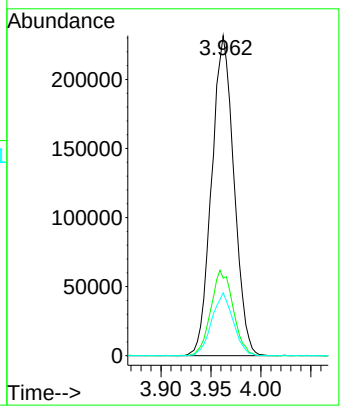




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.962 min Scan# 1
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion:114 Resp: 35990

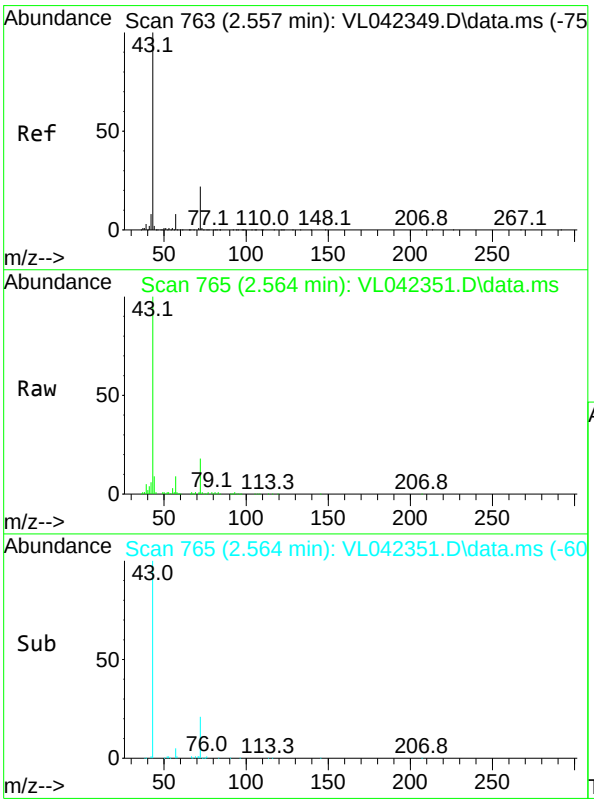
Ion	Ratio	Lower	Upper
114	100		
63	26.7	21.8	32.6
88	18.8	15.5	23.3



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

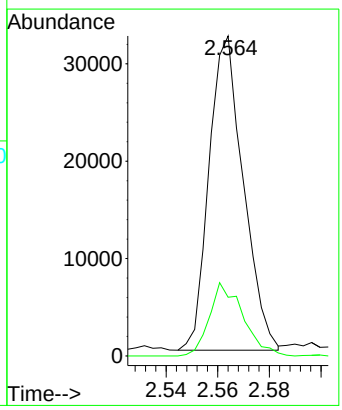
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

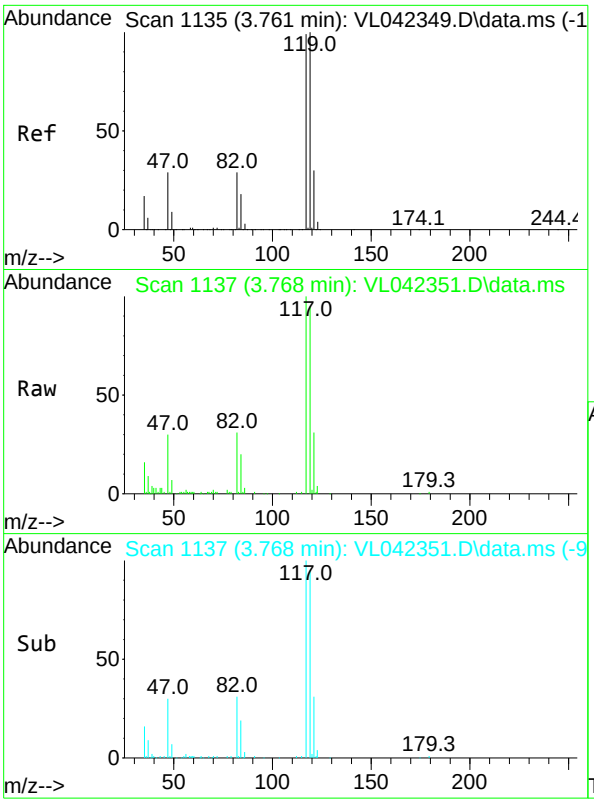


#34
2-Butanone
Concen: 1.045 ppbv
RT: 2.564 min Scan# 765
Delta R.T. 0.007 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 43 Resp: 29735

Ion	Ratio	Lower	Upper
43	100		
72	23.1	18.2	27.2

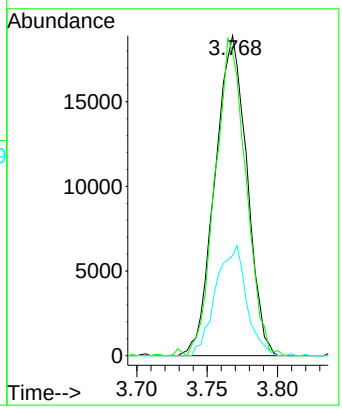




#35
Carbon Tetrachloride
Concen: 0.917 ppbv
RT: 3.768 min Scan# 1
Delta R.T. 0.007 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion:117 Resp: 2987

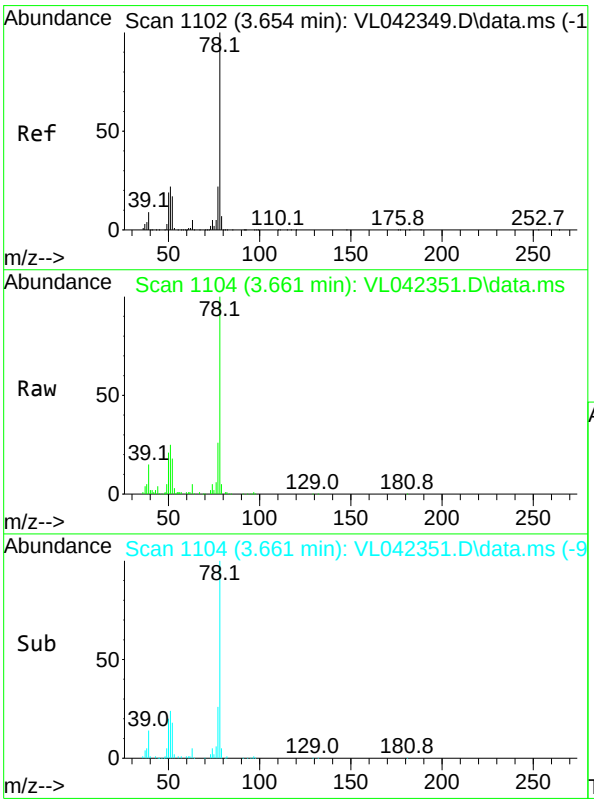
Ion	Ratio	Lower	Upper
117	100		
119	93.3	80.5	120.7
121	31.3	24.2	36.2



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

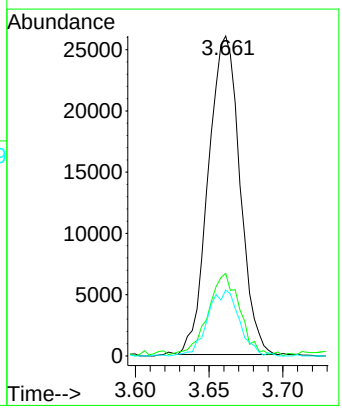
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

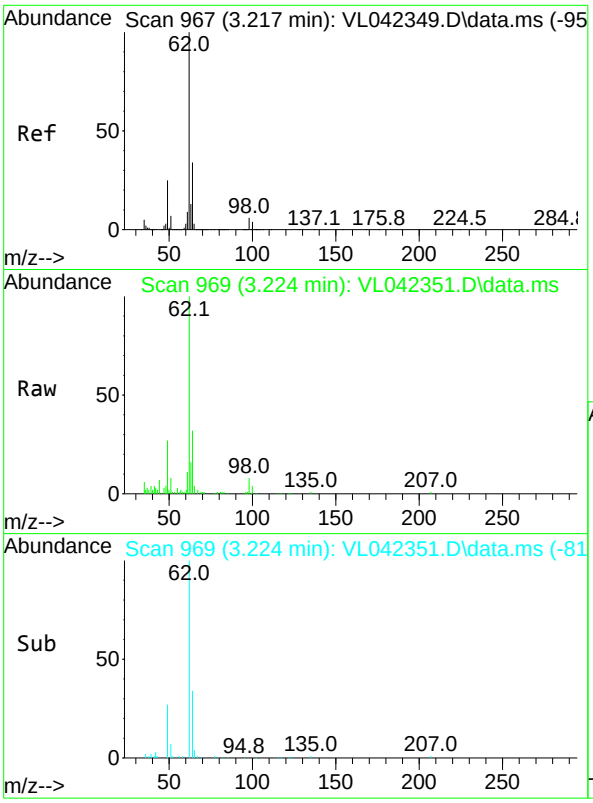


#36
Benzene
Concen: 0.997 ppbv
RT: 3.661 min Scan# 1104
Delta R.T. 0.007 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 78 Resp: 38707

Ion	Ratio	Lower	Upper
78	100		
77	24.7	17.4	26.0
50	20.7	15.5	23.3

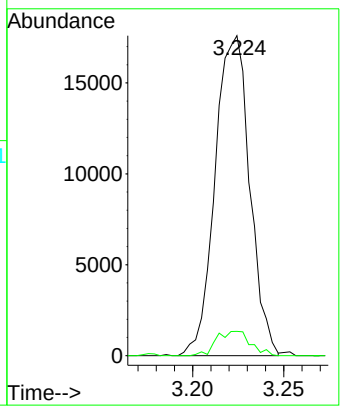




#37
1,2-Dichloroethane
Concen: 0.999 ppbv
RT: 3.224 min Scan# 9
Delta R.T. 0.007 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 62 Resp: 2328

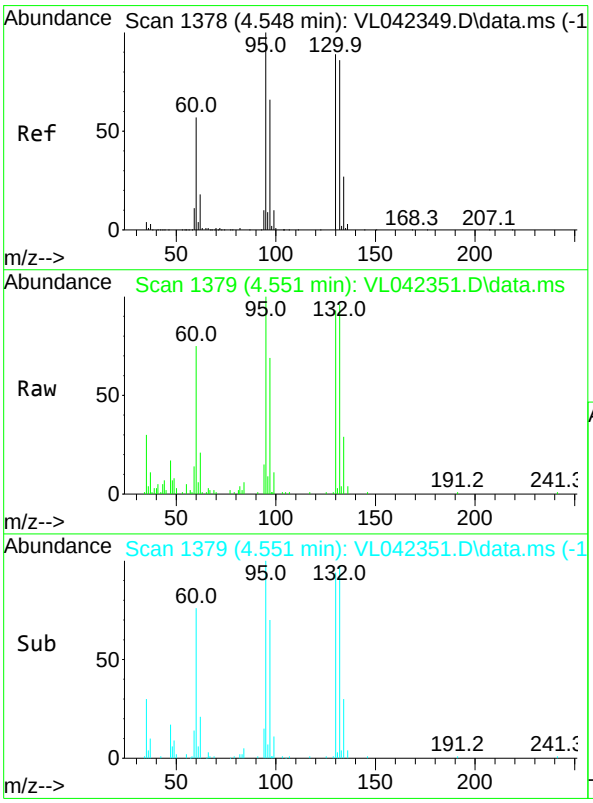
Ion	Ratio	Lower	Upper
62	100		
98	7.5	5.1	7.7



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

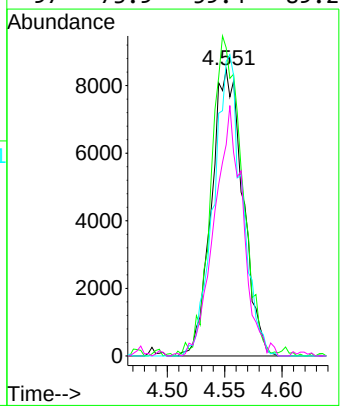
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

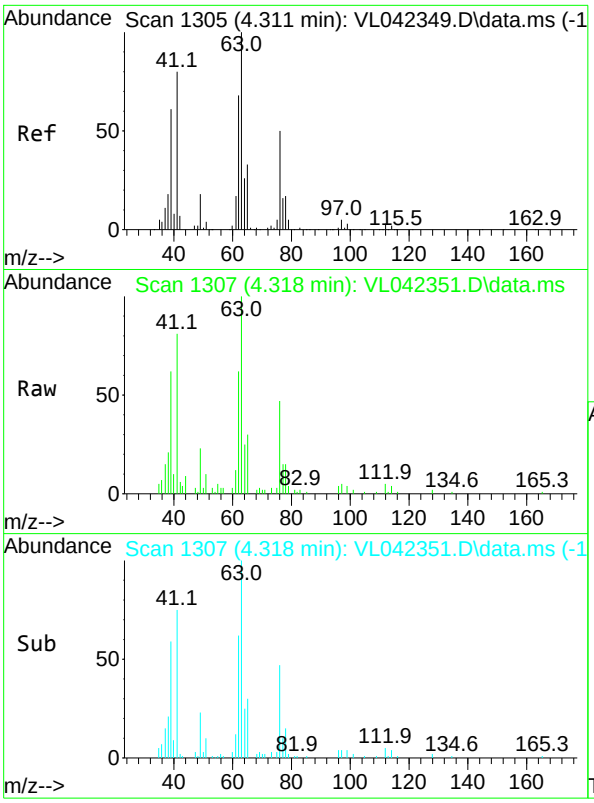


#38
Trichloroethene
Concen: 0.947 ppbv
RT: 4.551 min Scan# 1379
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion:130 Resp: 16119

Ion	Ratio	Lower	Upper
130	100		
95	106.6	89.8	134.6
132	102.9	77.7	116.5
97	73.9	59.4	89.2

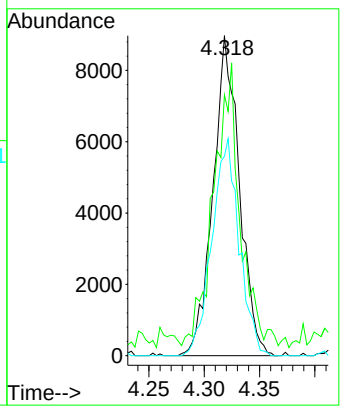




#39
1,2-Dichloropropane
Concen: 1.027 ppbv
RT: 4.318 min Scan# 1
Delta R.T. 0.007 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 63 Resp: 1486

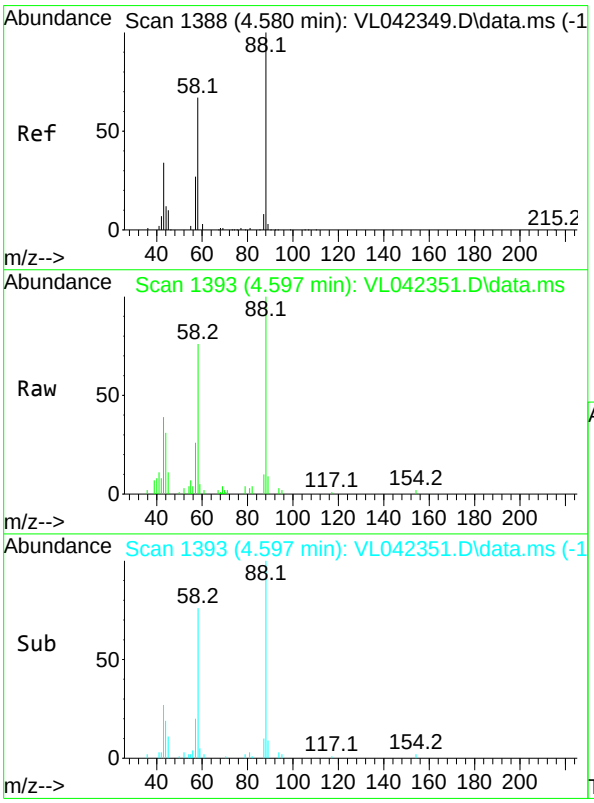
Ion	Ratio	Lower	Upper
63	100		
41	78.3	64.2	96.2
62	62.3	54.3	81.5



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

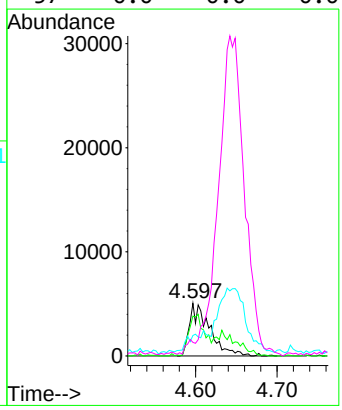
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

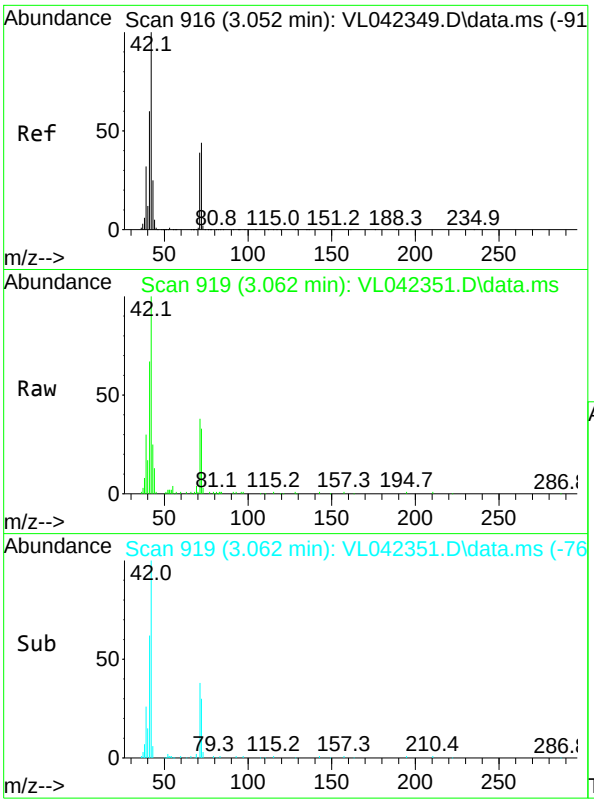


#40
1,4-Dioxane
Concen: 1.114 ppbv m
RT: 4.597 min Scan# 1393
Delta R.T. 0.017 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 88 Resp: 8737

Ion	Ratio	Lower	Upper
88	100		
58	110.6	61.4	92.0#
43	0.0	23.2	34.8#
57	0.0	0.0	0.0

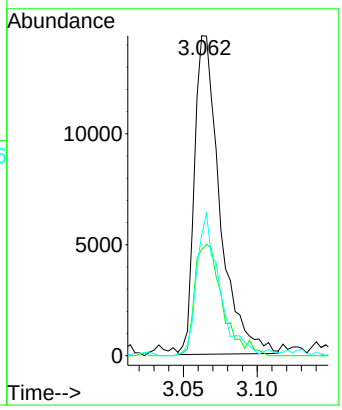




#41
Tetrahydrofuran
Concen: 1.049 ppbv
RT: 3.062 min Scan# 91
Delta R.T. 0.010 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 42 Resp: 1725

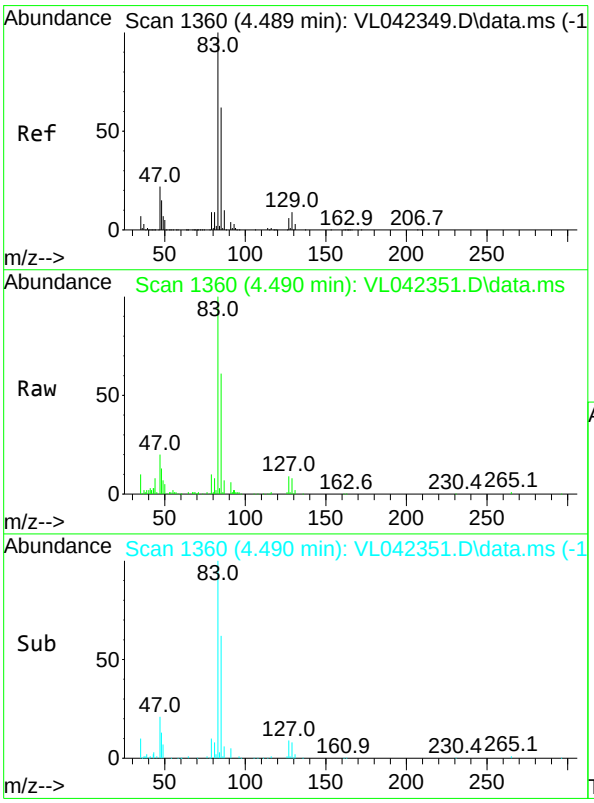
Ion	Ratio	Lower	Upper
42	100		
72	38.1	32.3	48.5
71	42.3	31.4	47.2



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

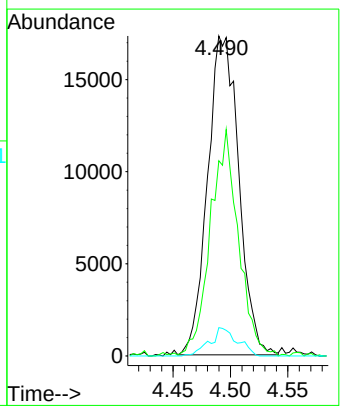
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

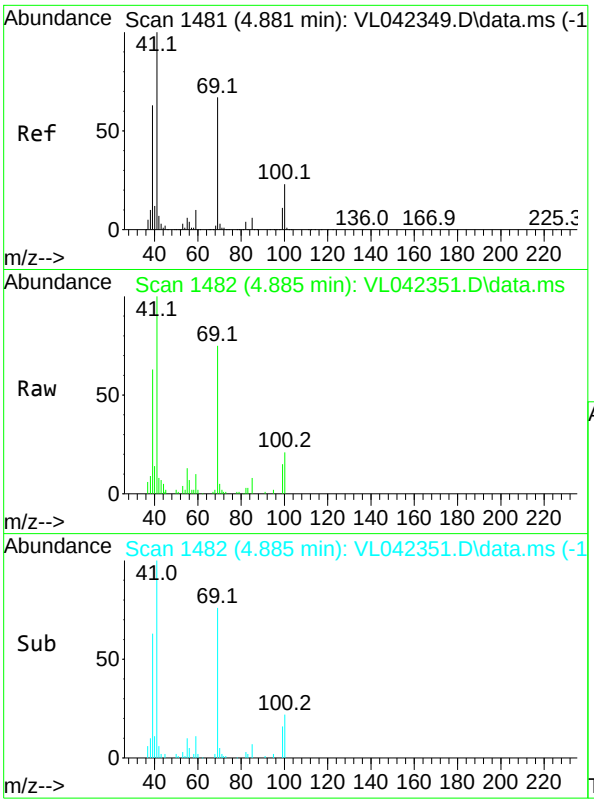


#42
Bromodichloromethane
Concen: 1.009 ppbv
RT: 4.490 min Scan# 1360
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 83 Resp: 32721

Ion	Ratio	Lower	Upper
83	100		
85	61.2	49.7	74.5
127	8.9	5.1	7.7#

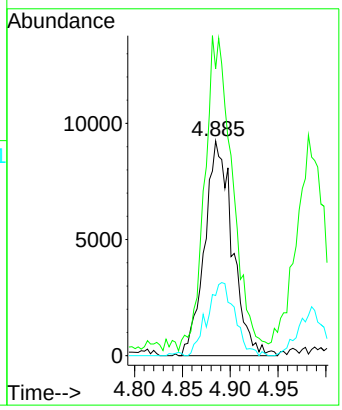




#43
Methyl Methacrylate
Concen: 1.073 ppbv m
RT: 4.885 min Scan# 14
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 69 Resp: 1869

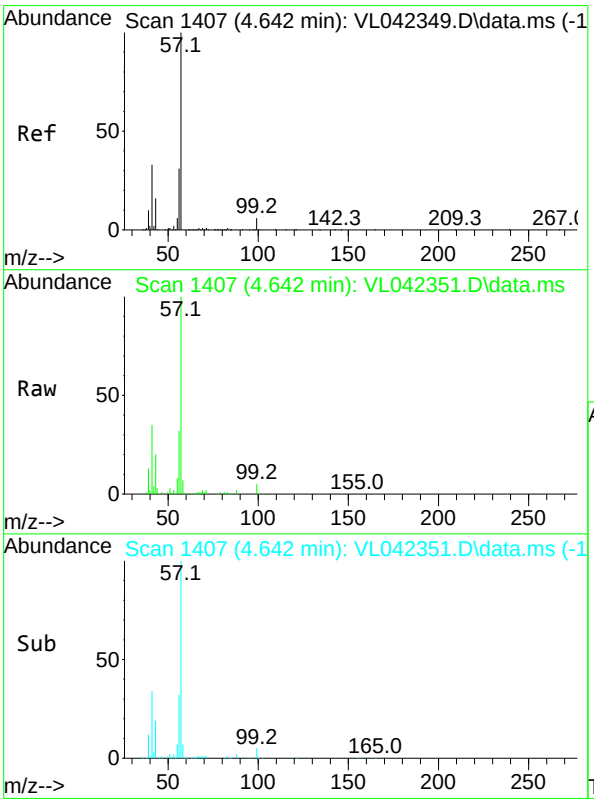
Ion	Ratio	Lower	Upper
69	100		
41	149.3	118.6	177.8
100	0.0	28.2	42.2#



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

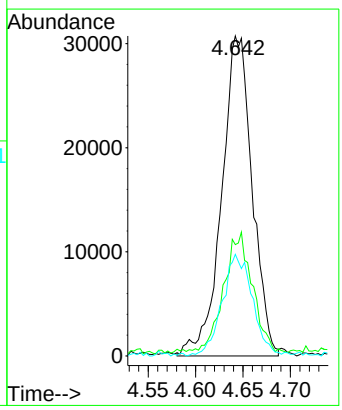
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

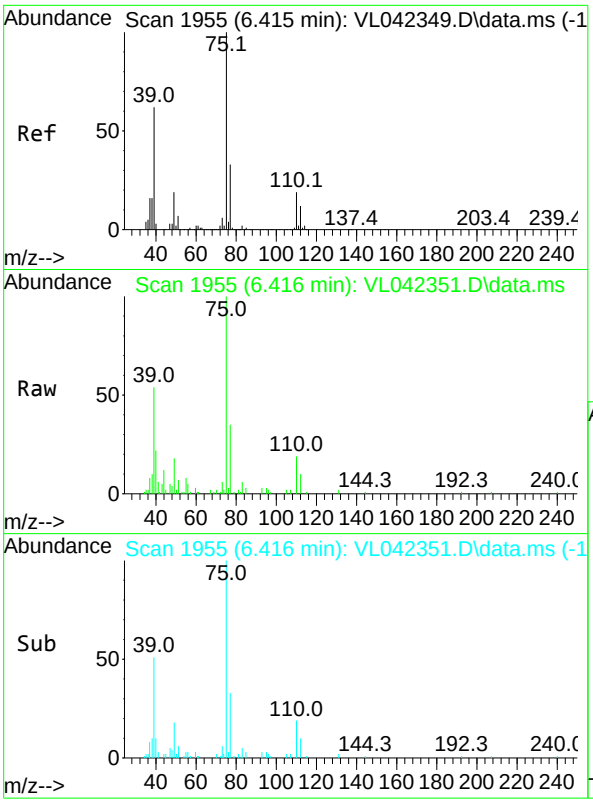


#44
2,2,4-Trimethylpentane
Concen: 1.027 ppbv m
RT: 4.642 min Scan# 1407
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 57 Resp: 68946

Ion	Ratio	Lower	Upper
57	100		
41	37.9	27.2	40.8
56	0.0	25.7	38.5#

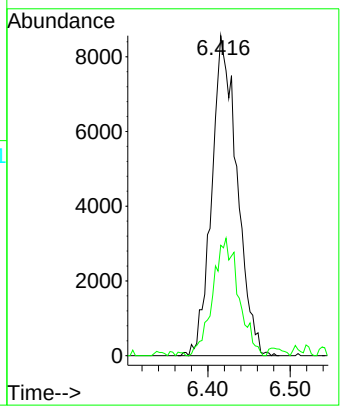




#45
t-1,3-Dichloropropene
Concen: 1.026 ppbv m
RT: 6.416 min Scan# 1
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 75 Resp: 1834

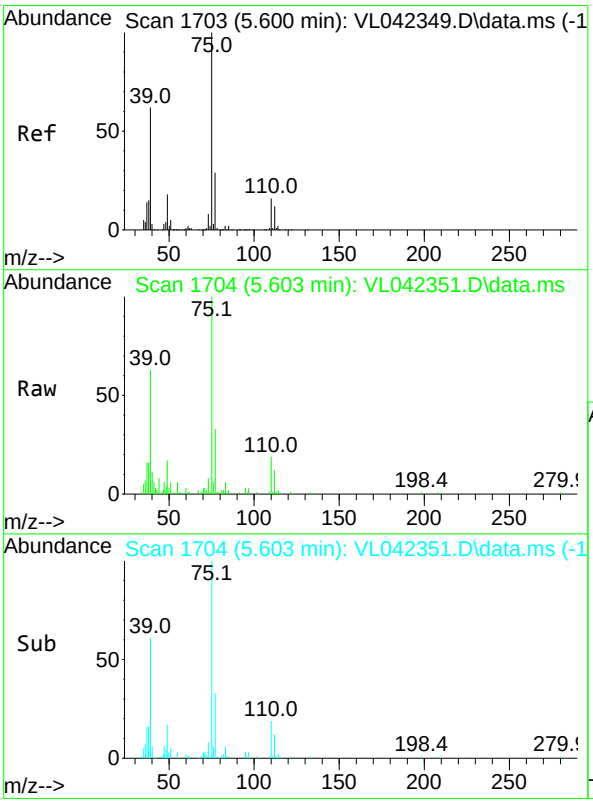
Ion	Ratio	Lower	Upper
75	100		
77	34.5	27.0	40.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

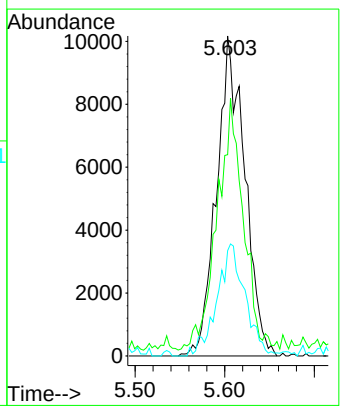
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

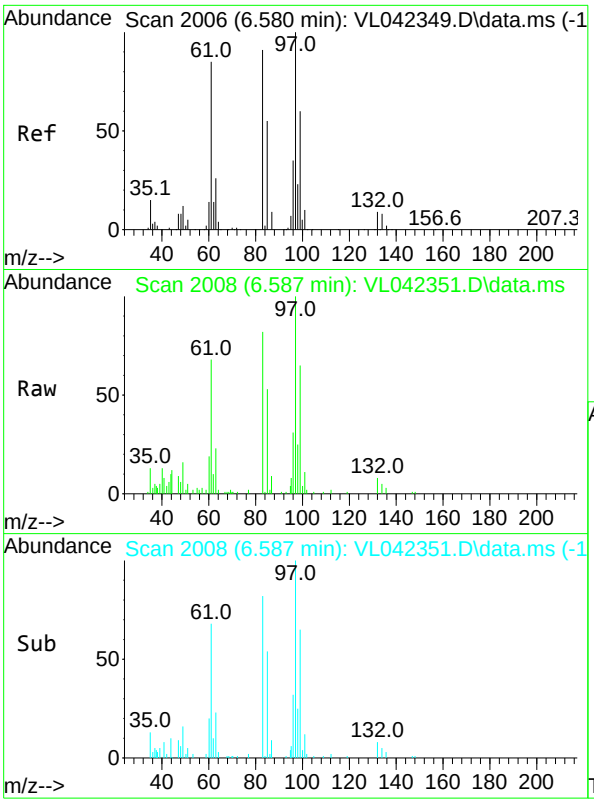


#46
cis-1,3-Dichloropropene
Concen: 1.015 ppbv m
RT: 5.603 min Scan# 1704
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 75 Resp: 22189

Ion	Ratio	Lower	Upper
75	100		
39	62.9	50.0	75.0
77	32.9	23.0	34.6

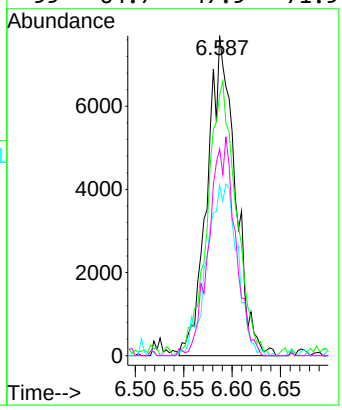




#47
1,1,2-Trichloroethane
Concen: 1.048 ppbv m
RT: 6.587 min Scan# 2
Delta R.T. 0.007 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 97 Resp: 1545

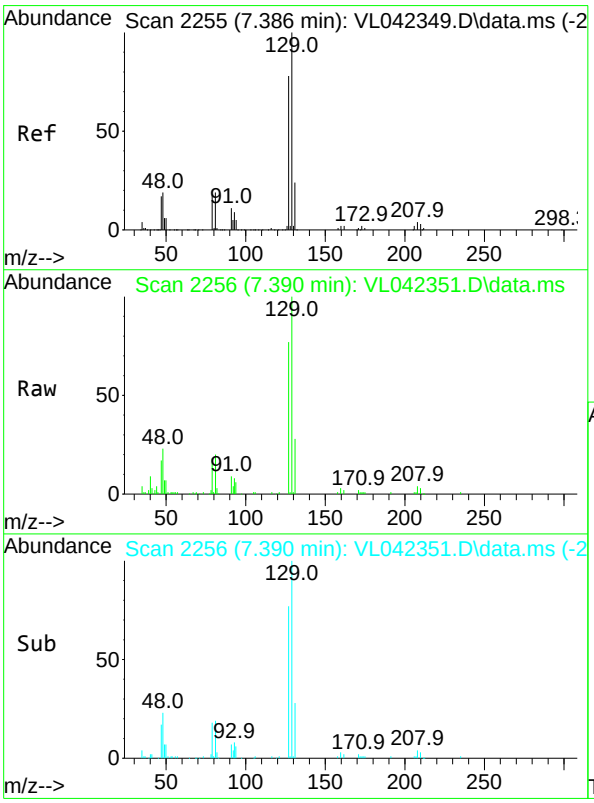
Ion	Ratio	Lower	Upper
97	100		
83	81.5	72.8	109.2
85	53.2	44.2	66.4
99	64.7	47.9	71.9



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

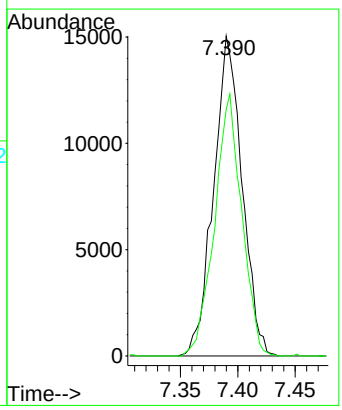
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

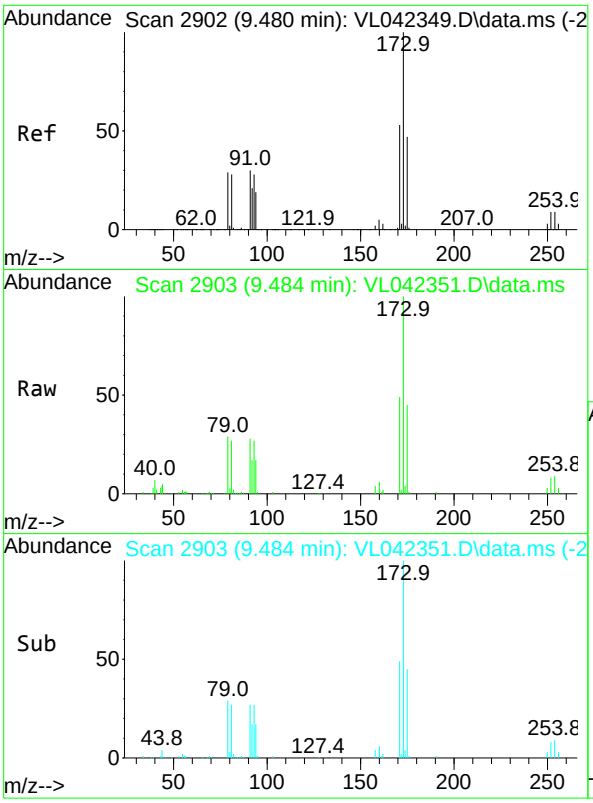


#48
Dibromochloromethane
Concen: 0.997 ppbv
RT: 7.390 min Scan# 2256
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion:129 Resp: 25948

Ion	Ratio	Lower	Upper
129	100		
127	78.4	39.1	117.3

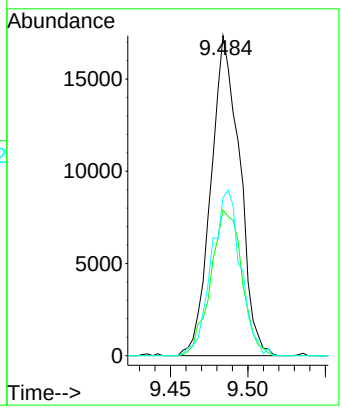




#49
Bromoform
Concen: 0.984 ppbv
RT: 9.484 min Scan# 2
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion:173 Resp: 2241

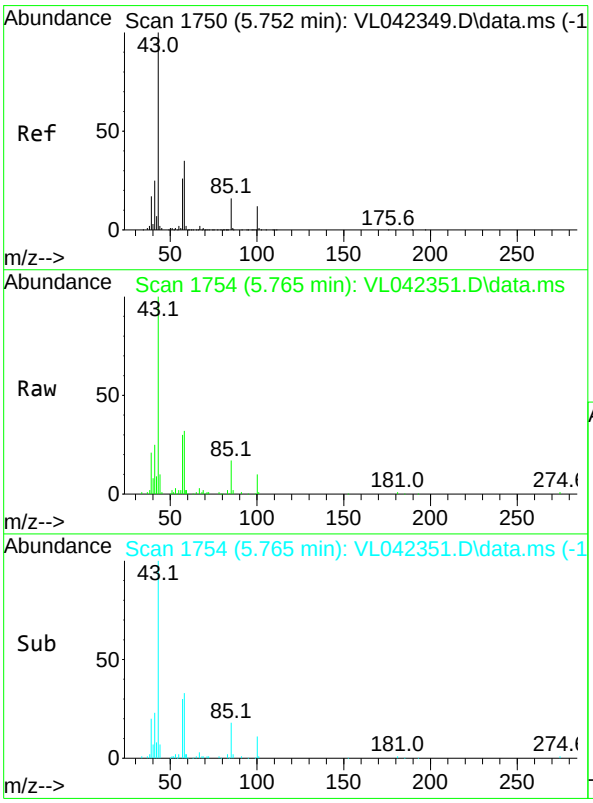
Ion	Ratio	Lower	Upper
173	100		
175	49.3	38.2	57.2
171	52.7	40.9	61.3



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

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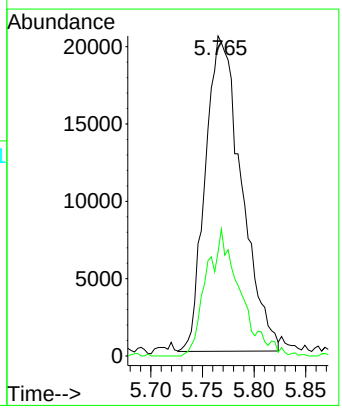
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

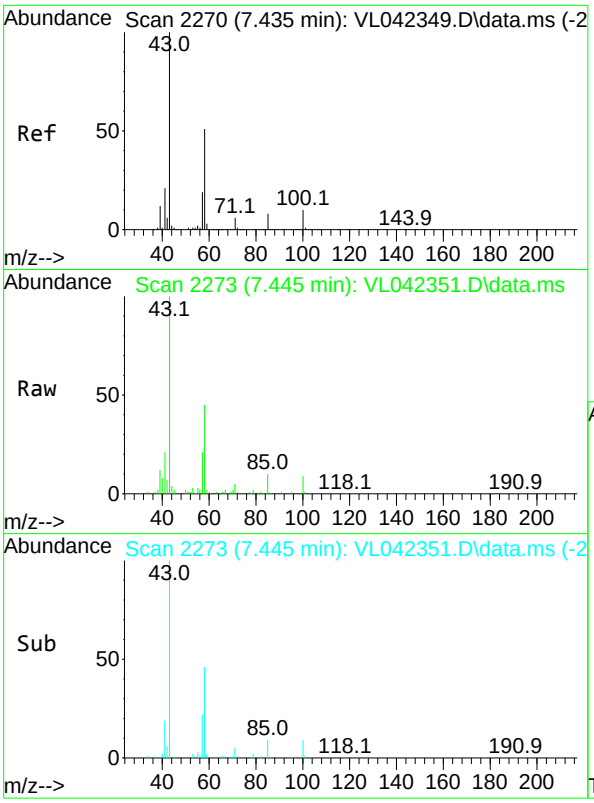


#50
4-Methyl-2-Pentanone
Concen: 1.049 ppbv
RT: 5.765 min Scan# 1754
Delta R.T. 0.013 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 43 Resp: 49725

Ion	Ratio	Lower	Upper
43	100		
58	37.7	28.6	43.0

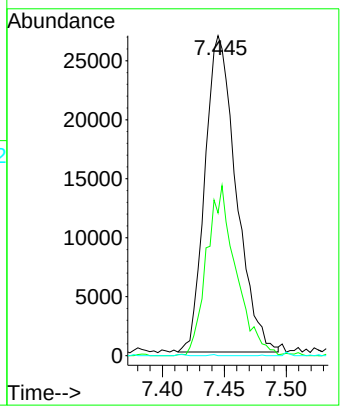




#51
2-Hexanone
Concen: 1.103 ppbv
RT: 7.445 min Scan# 2
Delta R.T. 0.010 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 43 Resp: 4717

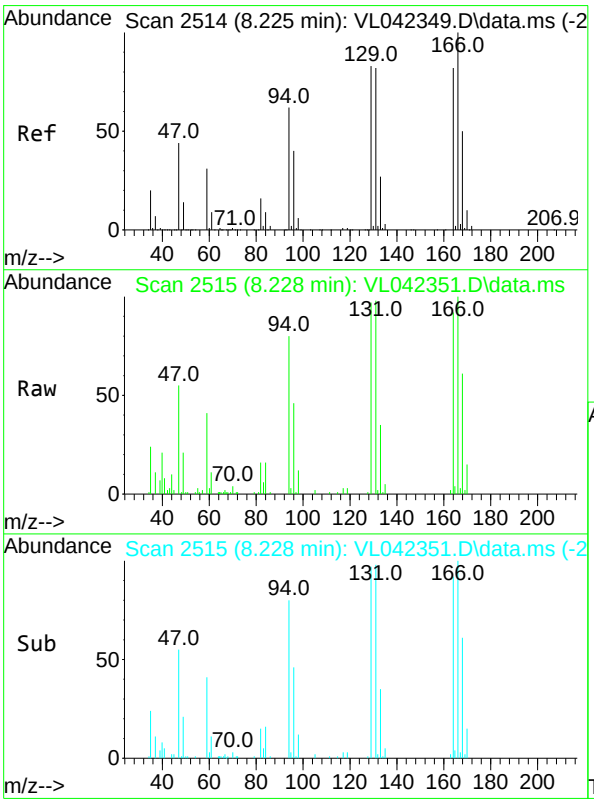
Ion	Ratio	Lower	Upper
43	100		
58	50.8	40.2	60.4
98	0.1	0.1	0.1



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
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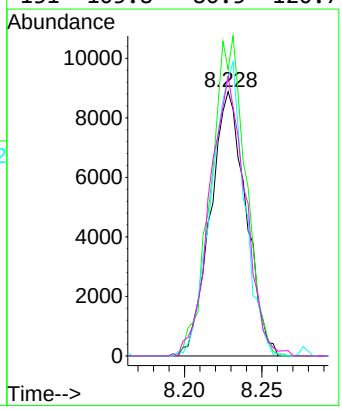
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

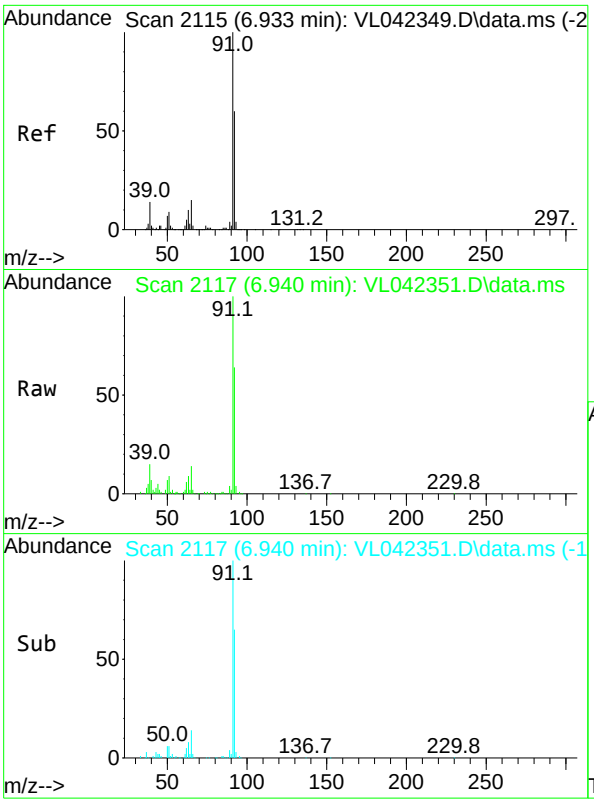


#52
Tetrachloroethene
Concen: 0.943 ppbv
RT: 8.228 min Scan# 2515
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion:164 Resp: 14154

Ion	Ratio	Lower	Upper
164	100		
166	107.7	98.2	147.2
129	104.2	81.8	122.8
131	105.8	80.5	120.7

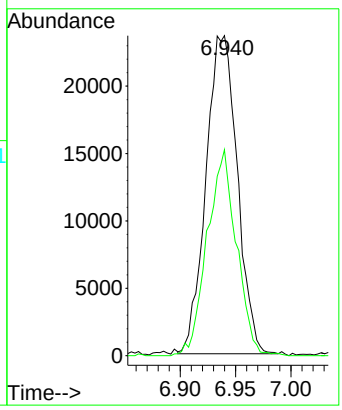




#53
Toluene
Concen: 1.001 ppbv
RT: 6.940 min Scan# 21
Delta R.T. 0.007 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 91 Resp: 4661

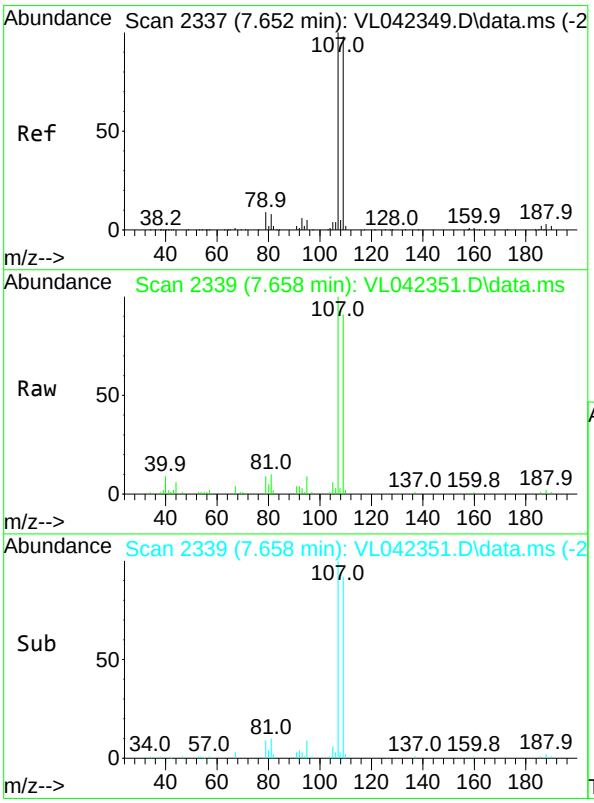
Ion	Ratio	Lower	Upper
91	100		
92	60.4	48.2	72.4



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
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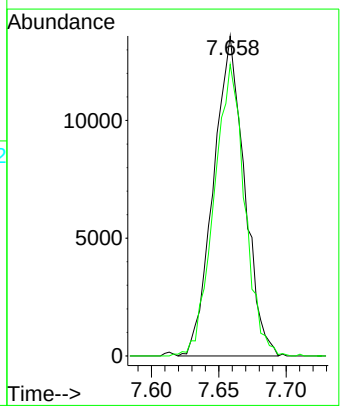
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

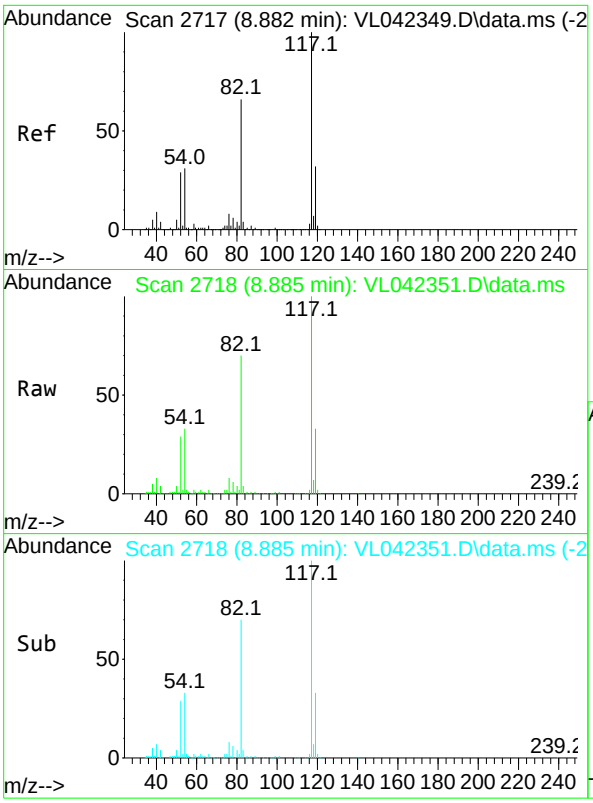


#54
1,2-Dibromoethane
Concen: 1.036 ppbv
RT: 7.658 min Scan# 2339
Delta R.T. 0.007 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion:107 Resp: 21780

Ion	Ratio	Lower	Upper
107	100		
109	90.7	78.2	117.4

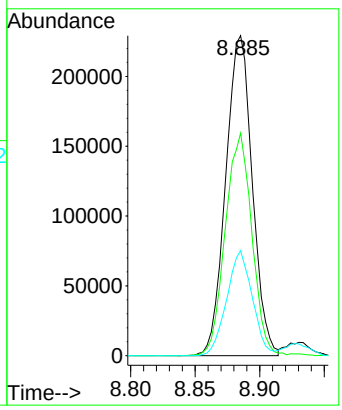




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.885 min Scan# 2
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion:117 Resp: 32909

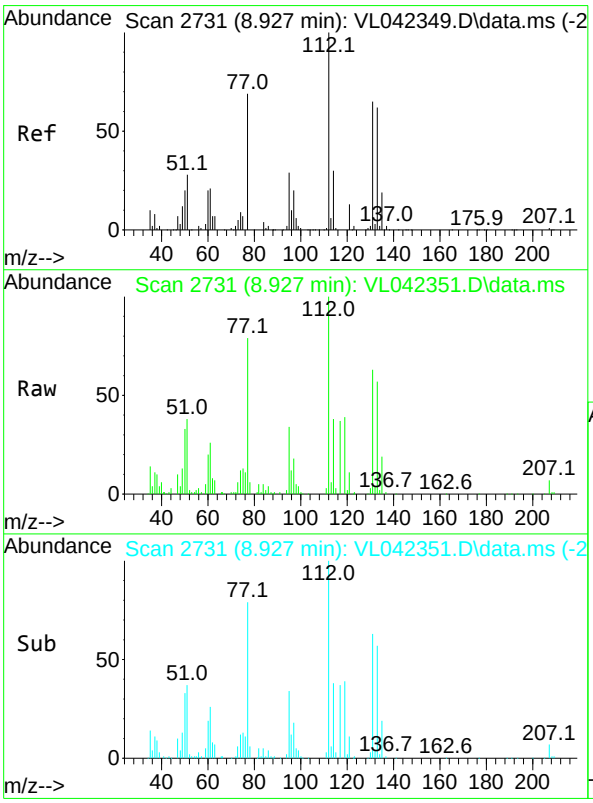
Ion	Ratio	Lower	Upper
117	100		
82	69.7	57.8	86.6
119	31.8	25.2	37.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
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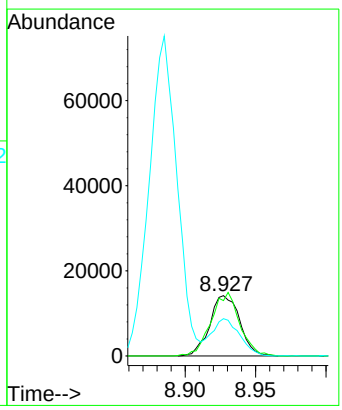
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

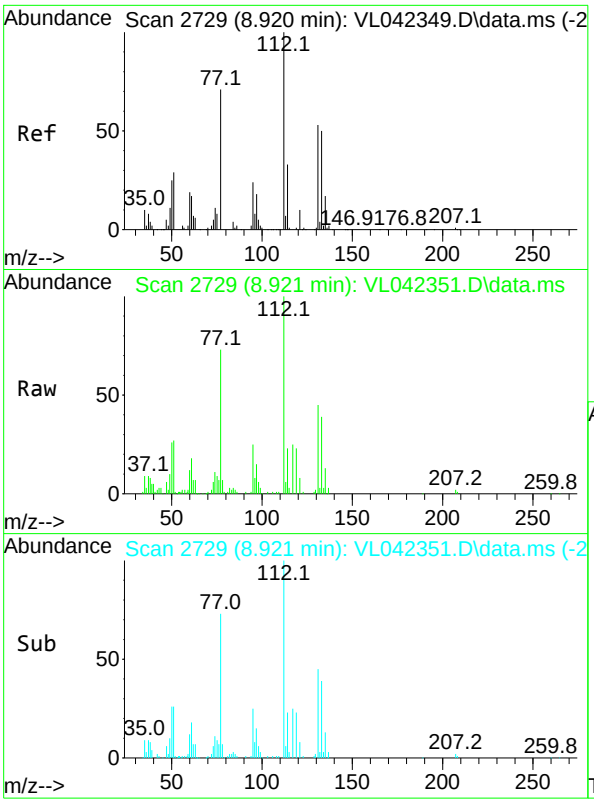


#56
1,1,1,2-Tetrachloroethane
Concen: 1.057 ppbv
RT: 8.927 min Scan# 2731
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion:131 Resp: 21052

Ion	Ratio	Lower	Upper
131	100		
133	100.5	78.3	117.5
119	55.1	48.7	73.1

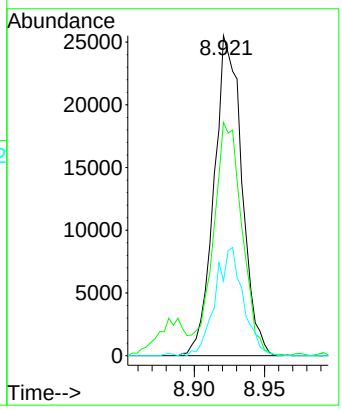




#57
Chlorobenzene
Concen: 1.026 ppbv
RT: 8.921 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion:112 Resp: 3511

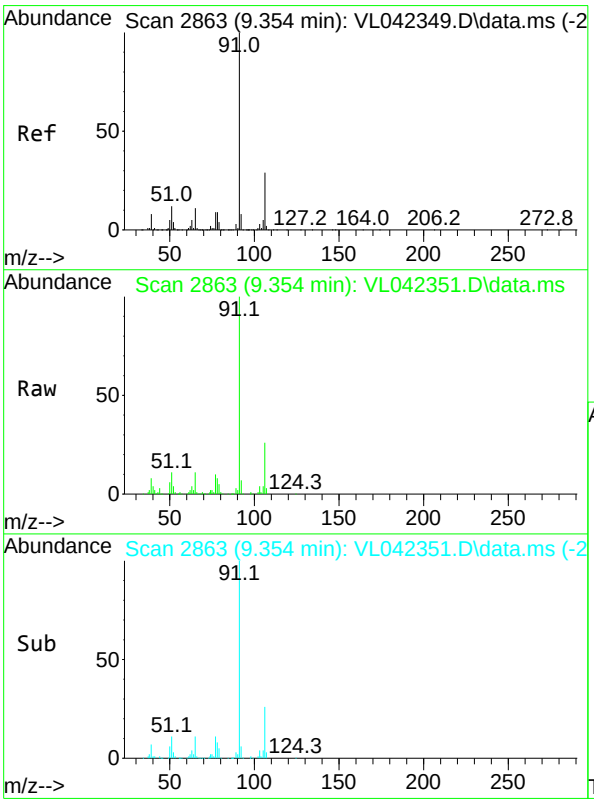
Ion	Ratio	Lower	Upper
112	100		
77	72.4	57.8	86.6
114	23.3	29.3	35.9



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
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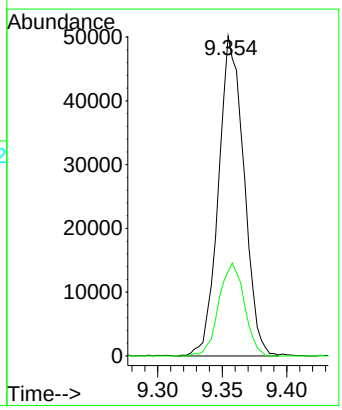
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

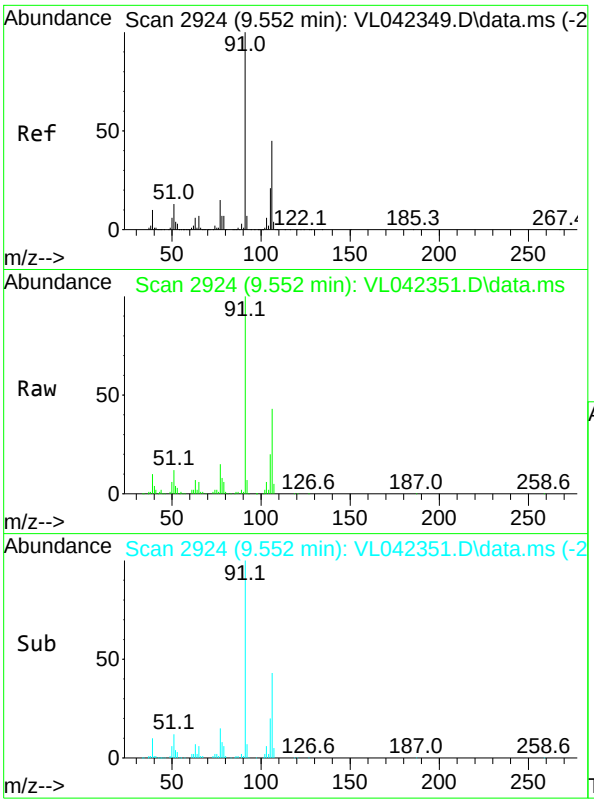


#58
Ethyl Benzene
Concen: 1.054 ppbv
RT: 9.354 min Scan# 2863
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 91 Resp: 68703

Ion	Ratio	Lower	Upper
91	100		
106	26.5	23.0	34.4





#59
m/p-Xylene
Concen: 2.101 ppbv m
RT: 9.552 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

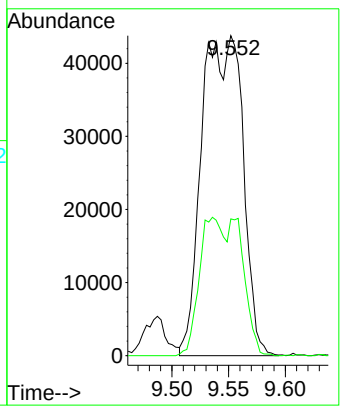
Tgt Ion: 91 Resp: 11070

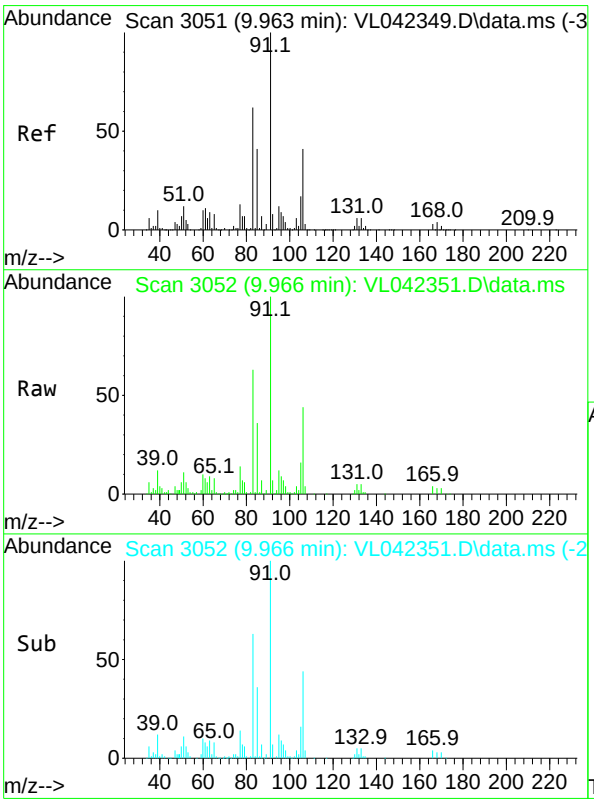
Ion	Ratio	Lower	Upper
91	100		
106	0.0	35.4	53.2

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

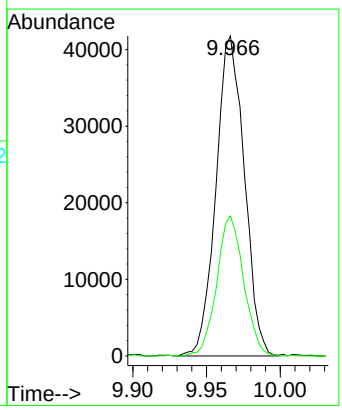


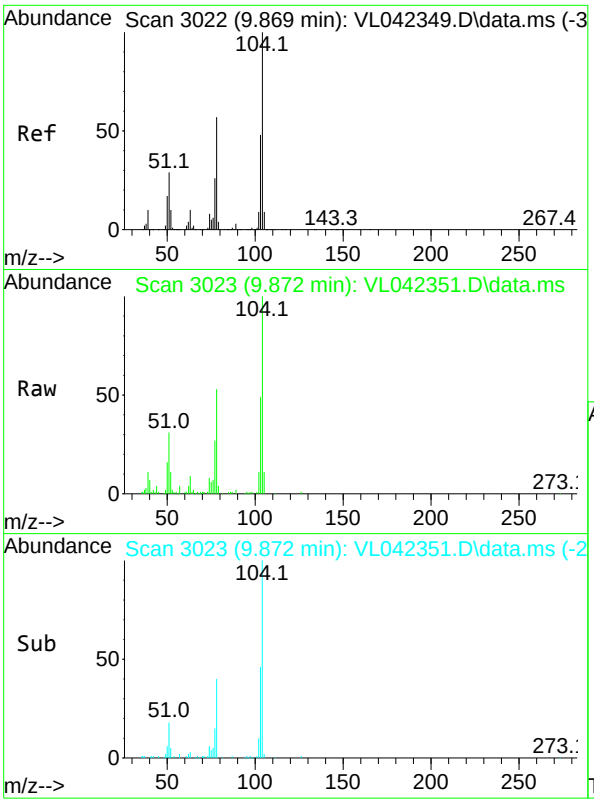


#60
o-Xylene
Concen: 1.056 ppbv
RT: 9.966 min Scan# 3052
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 91 Resp: 55831

Ion	Ratio	Lower	Upper
91	100		
106	41.6	21.1	63.4

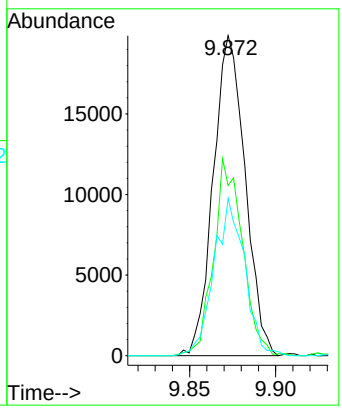




#61
Styrene
Concen: 1.012 ppbv
RT: 9.872 min Scan# 3
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion:104 Resp: 2554

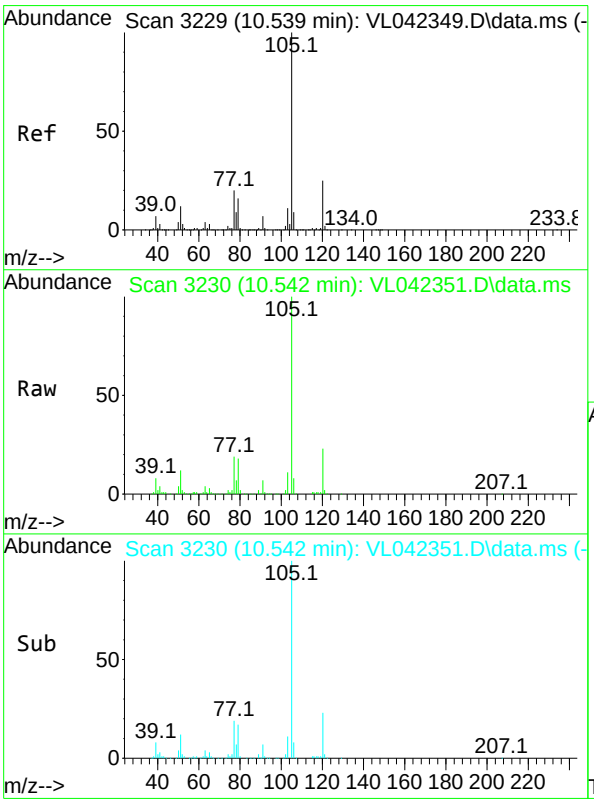
Ion	Ratio	Lower	Upper
104	100		
78	55.7	44.6	66.8
103	47.2	37.4	56.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
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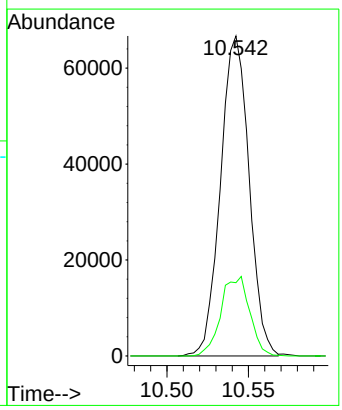
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

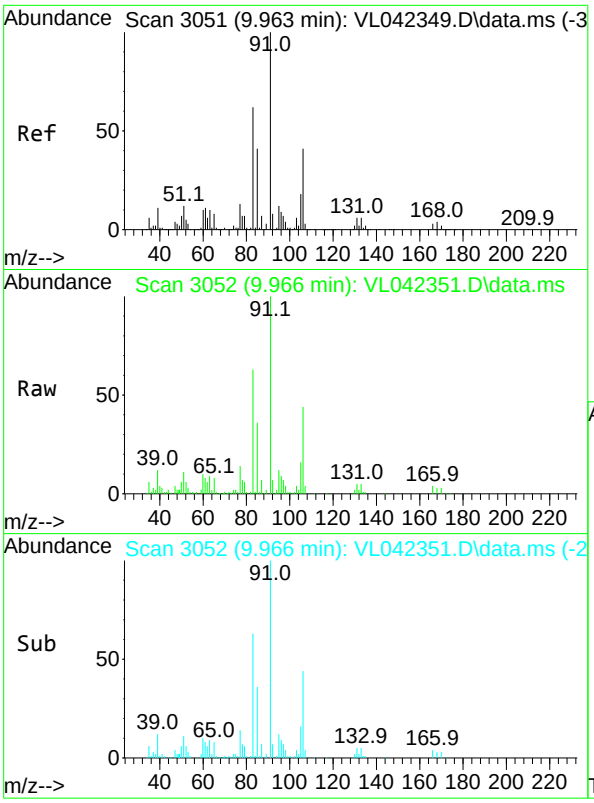


#62
Isopropylbenzene
Concen: 1.047 ppbv
RT: 10.542 min Scan# 3230
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion:105 Resp: 81286

Ion	Ratio	Lower	Upper
105	100		
120	25.0	19.8	29.8





#63
1,1,2,2-Tetrachloroethane
Concen: 0.943 ppbv
RT: 9.966 min Scan# 3
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

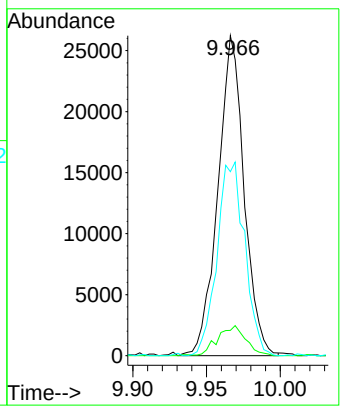
Tgt Ion: 83 Resp: 3241

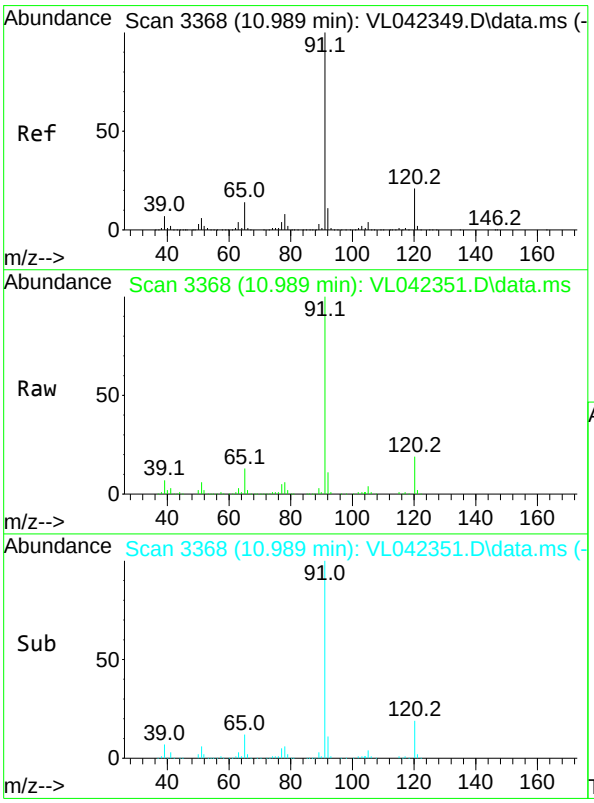
Ion	Ratio	Lower	Upper
83	100		
131	10.2	4.5	13.7
85	64.4	32.4	97.0

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

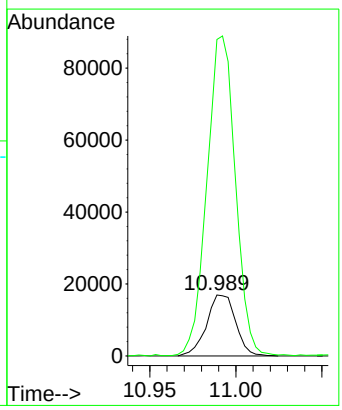


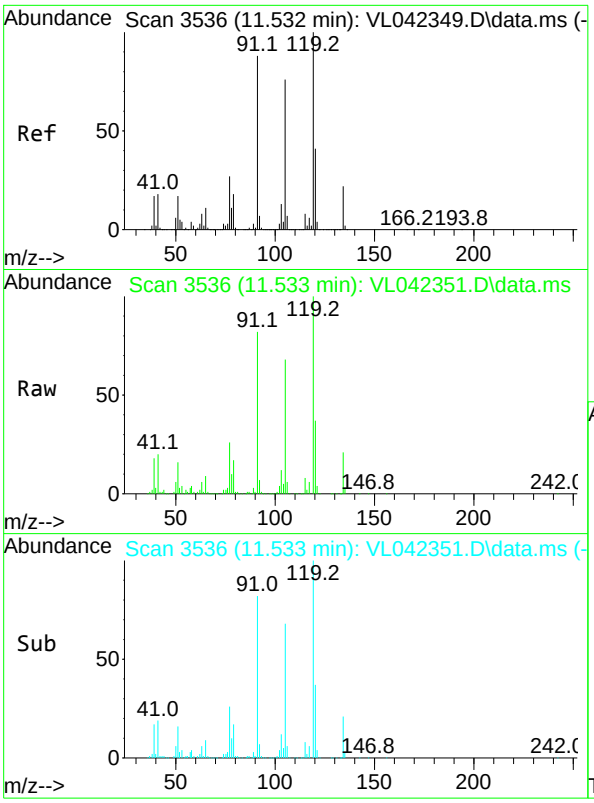


#64
n-propylbenzene
Concen: 1.019 ppbv
RT: 10.989 min Scan# 3368
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion:120 Resp: 19898

Ion	Ratio	Lower	Upper
120	100		
91	517.6	392.4	588.6

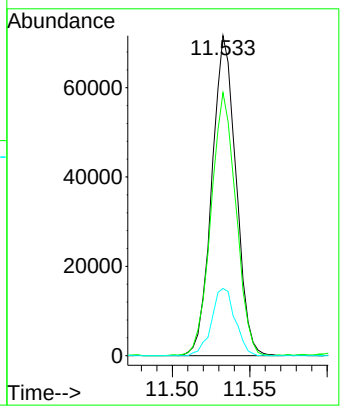




#65
tert-Butylbenzene
Concen: 1.087 ppbv
RT: 11.533 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion:119 Resp: 7759

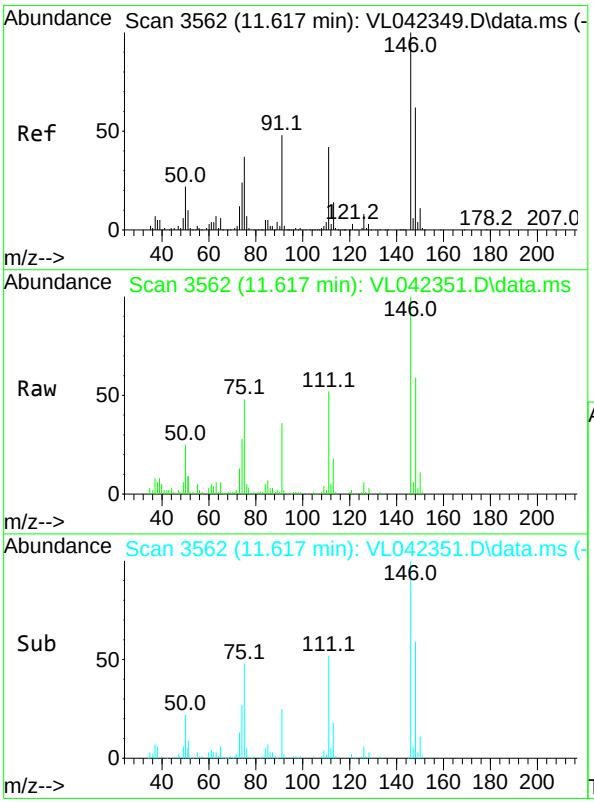
Ion	Ratio	Lower	Upper
119	100		
91	85.0	74.6	111.8
134	20.5	18.8	28.2



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
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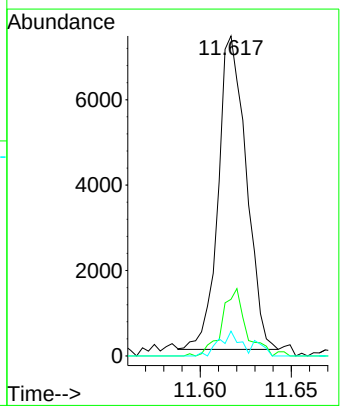
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

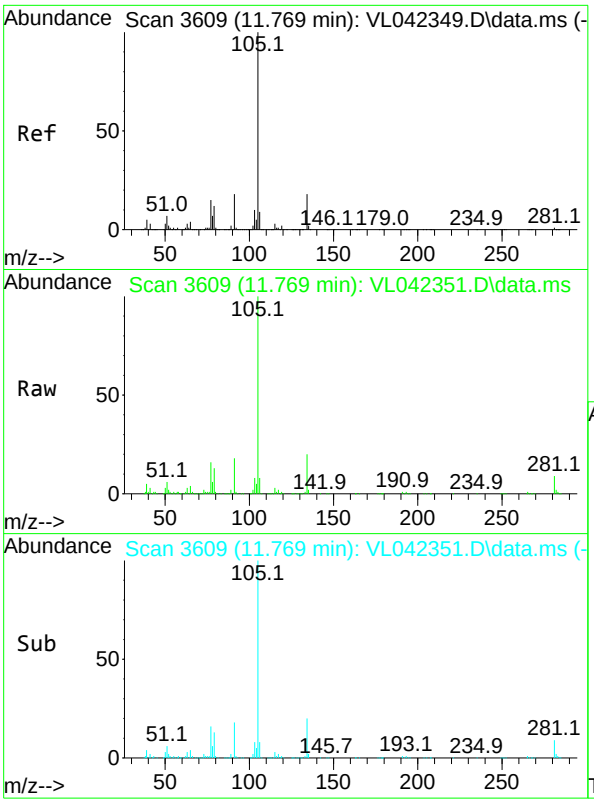


#66
Benzyl Chloride
Concen: 1.003 ppbv
RT: 11.617 min Scan# 3562
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 91 Resp: 7864

Ion	Ratio	Lower	Upper
91	100		
126	18.6	11.8	17.6#
128	7.7	4.5	6.7#

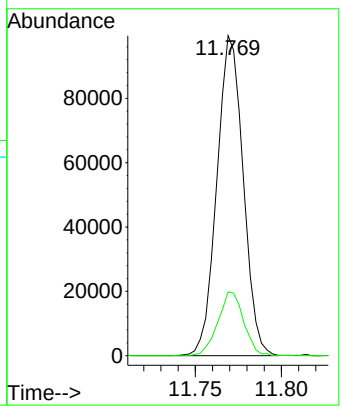




#67
sec-Butylbenzene
Concen: 1.067 ppbv
RT: 11.769 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion:105 Resp: 10591

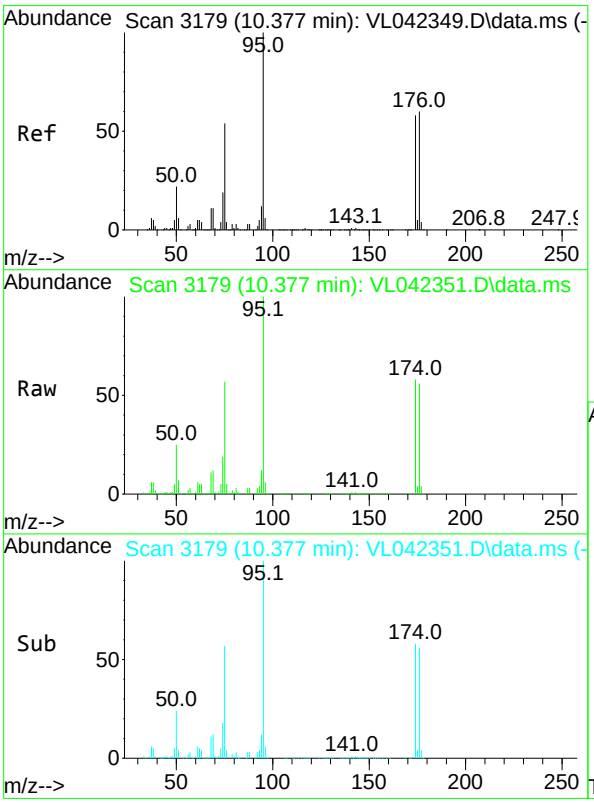
Ion	Ratio	Lower	Upper
105	100		
134	19.6	14.6	21.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

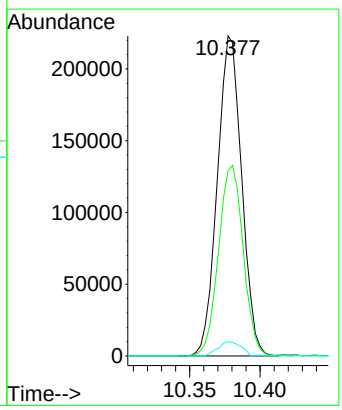
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

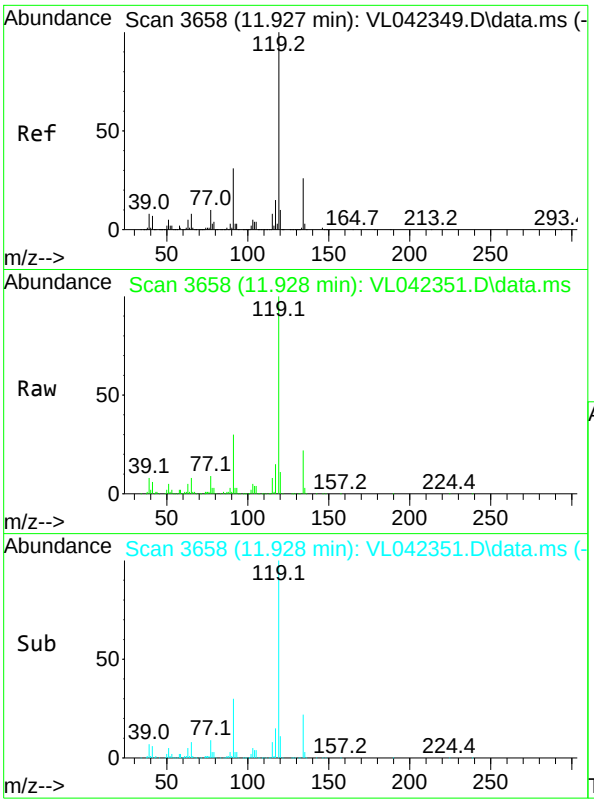


#68
1-Bromo-4-Fluorobenzene
Concen: 9.950 ppbv
RT: 10.377 min Scan# 3179
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 95 Resp: 269087

Ion	Ratio	Lower	Upper
95	100		
174	60.4	48.5	72.7
175	4.3	3.7	5.5

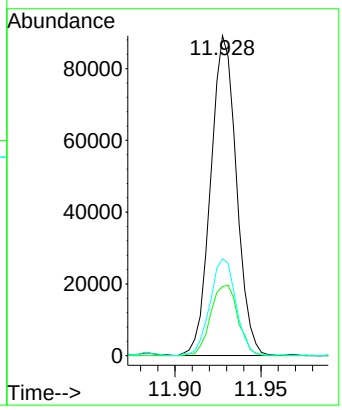




#69
p-Isopropyltoluene
Concen: 1.075 ppbv
RT: 11.928 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion:119 Resp: 9273

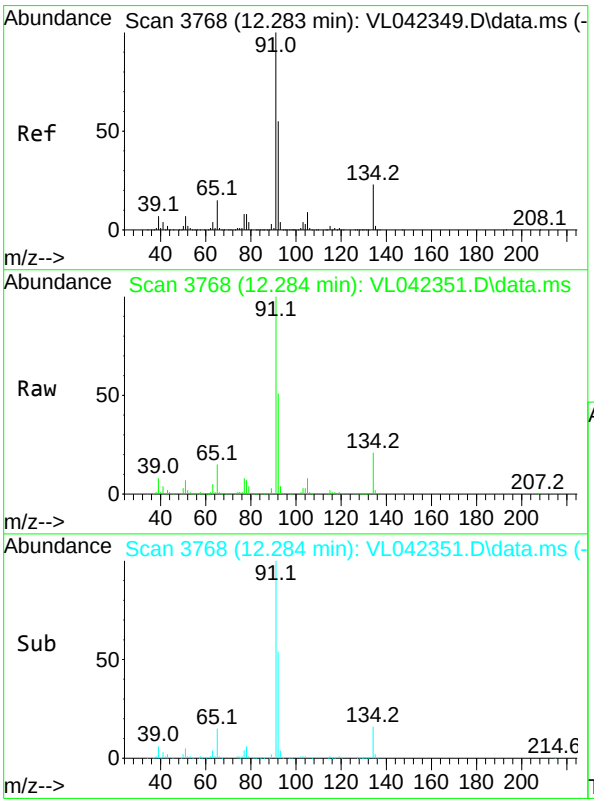
Ion	Ratio	Lower	Upper
119	100		
134	23.5	20.0	30.0
91	32.1	24.4	36.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

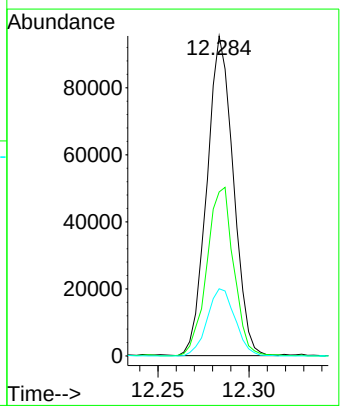
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

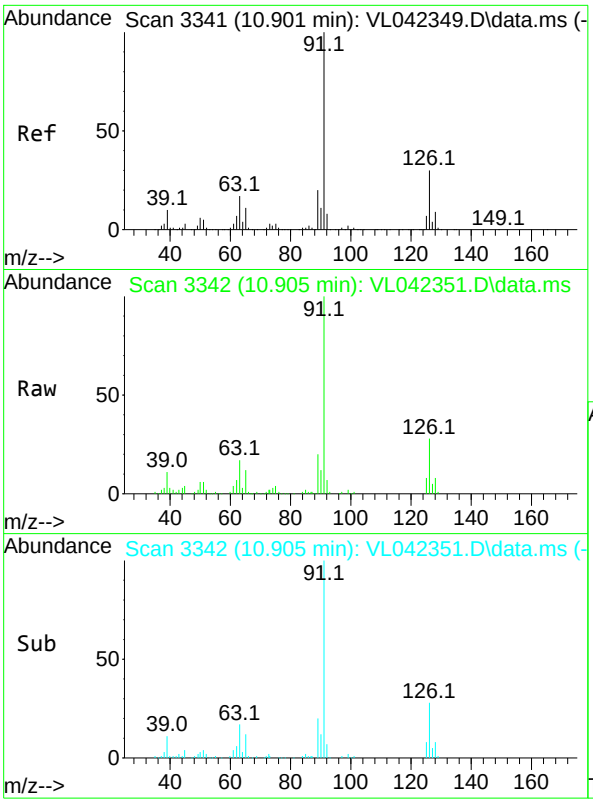


#70
n-Butylbenzene
Concen: 1.072 ppbv
RT: 12.284 min Scan# 3768
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 91 Resp: 96306

Ion	Ratio	Lower	Upper
91	100		
92	54.2	44.2	66.4
134	22.1	18.2	27.4

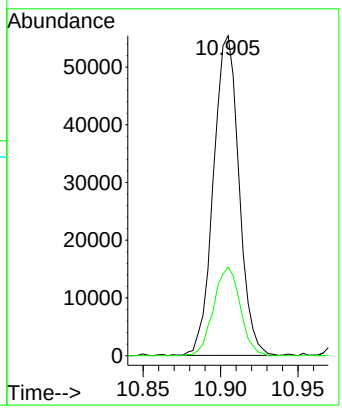




#71
2-Chlorotoluene
Concen: 1.040 ppbv
RT: 10.905 min Scan# 3
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 91 Resp: 6332

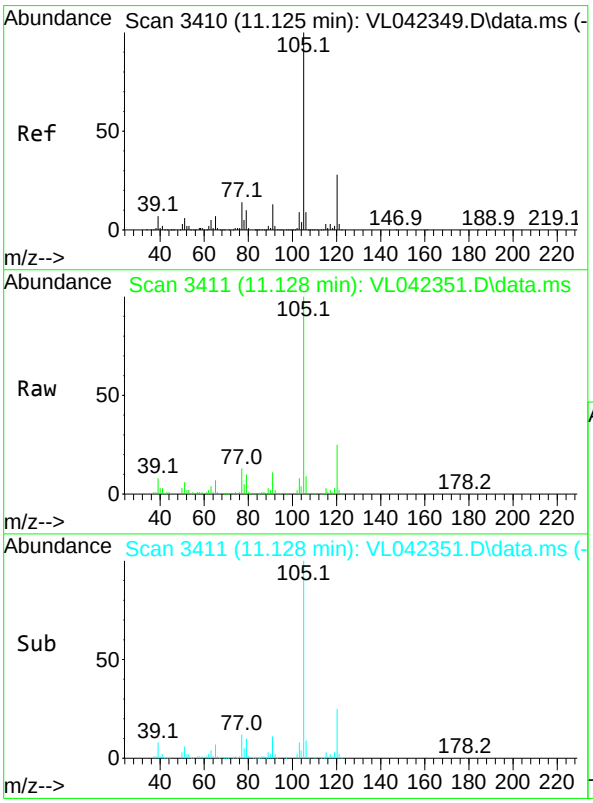
Ion	Ratio	Lower	Upper
91	100		
126	28.9	11.4	45.4



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

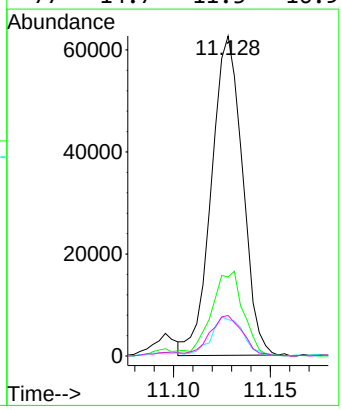
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

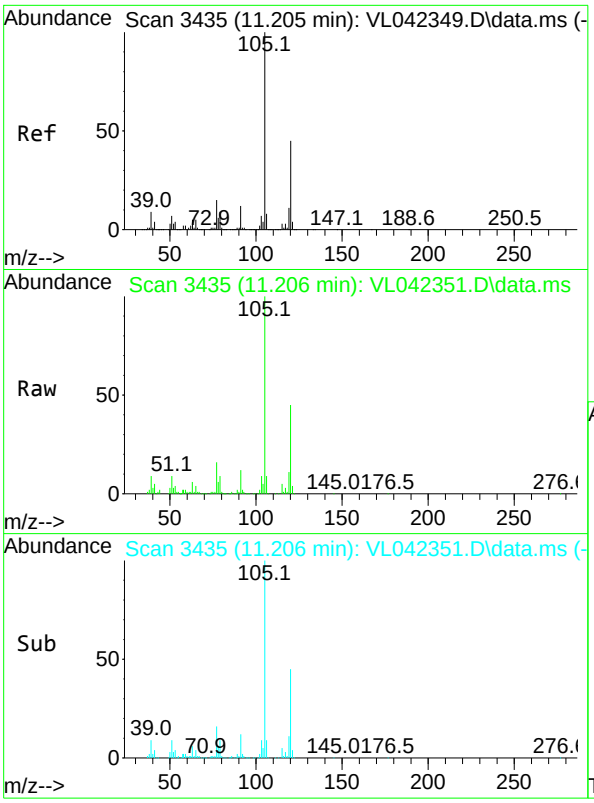


#72
4-Ethyltoluene
Concen: 1.078 ppbv
RT: 11.128 min Scan# 3411
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion:105 Resp: 69698

Ion	Ratio	Lower	Upper
105	100		
120	29.2	23.2	34.8
91	13.5	10.4	15.6
77	14.7	11.3	16.9

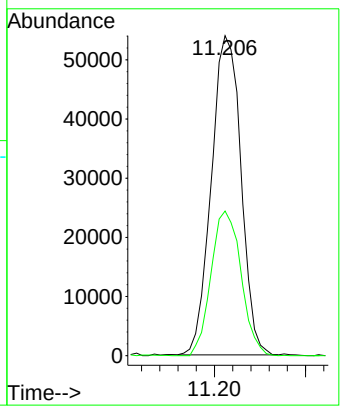




#73
1,3,5-Trimethylbenzene
Concen: 1.067 ppbv
RT: 11.206 min Scan# 34
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion:105 Resp: 6092

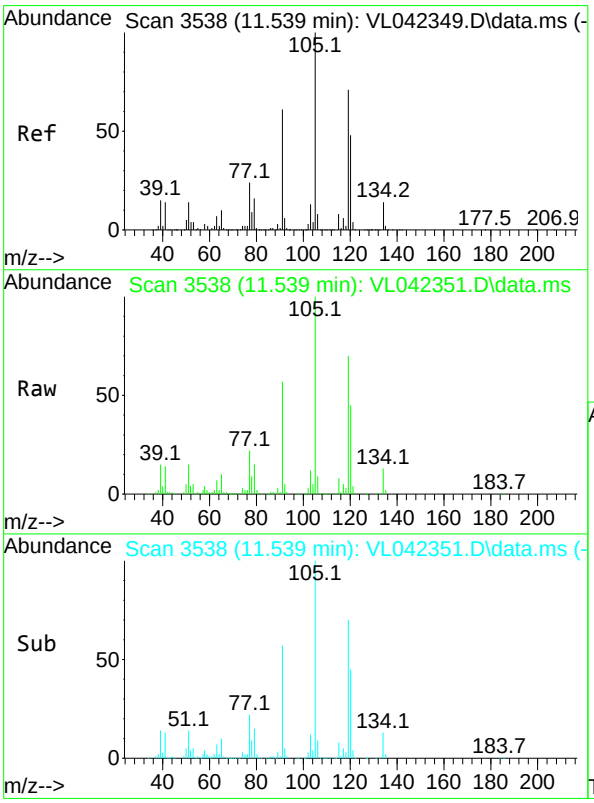
Ion	Ratio	Lower	Upper
105	100		
120	45.3	35.6	53.4



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

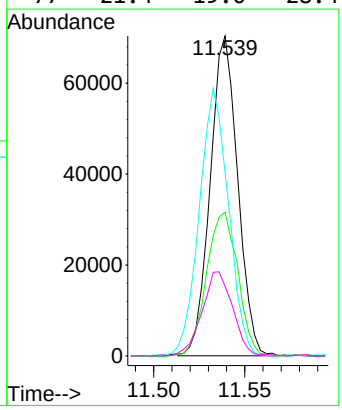
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

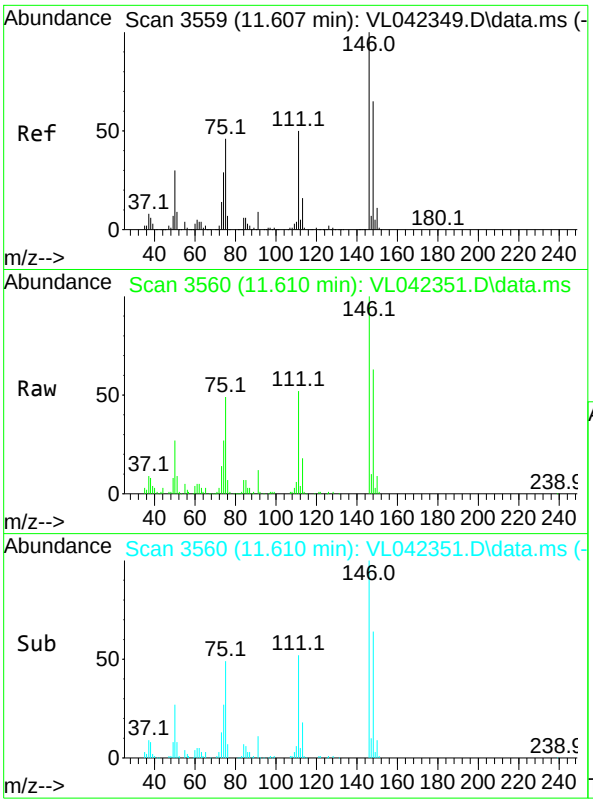


#74
1,2,4-Trimethylbenzene
Concen: 1.108 ppbv
RT: 11.539 min Scan# 3538
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion:105 Resp: 73888

Ion	Ratio	Lower	Upper
105	100		
120	45.0	38.1	57.1
91	57.0	48.8	73.2
77	21.4	19.0	28.4

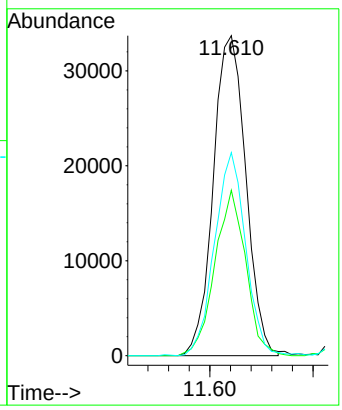




#75
1,3-Dichlorobenzene
Concen: 1.064 ppbv
RT: 11.610 min Scan# 3
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion:146 Resp: 3687

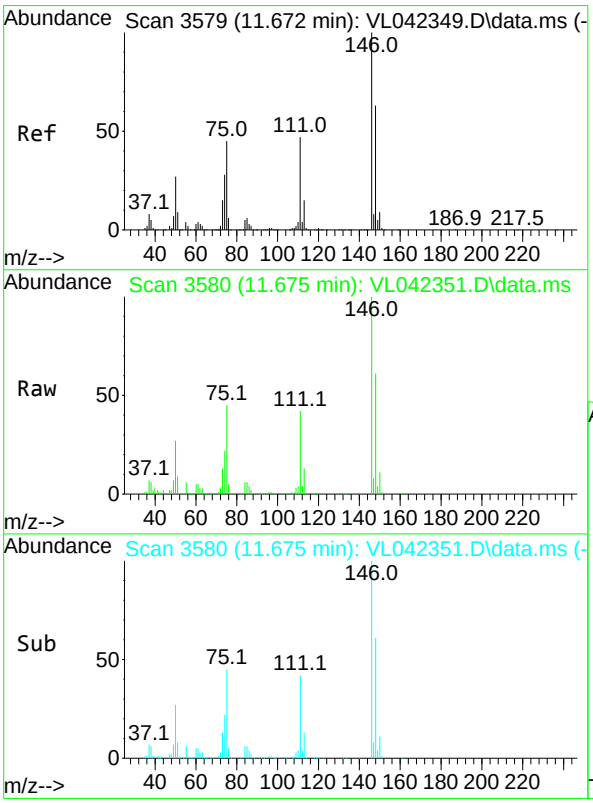
Ion	Ratio	Lower	Upper
146	100		
111	48.9	24.3	72.8
148	60.8	31.6	94.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

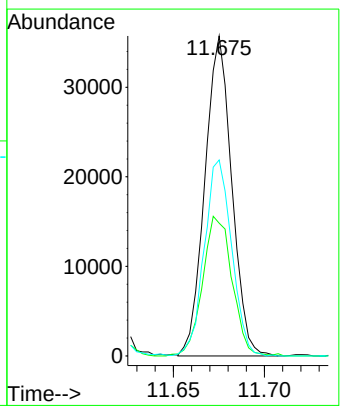
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

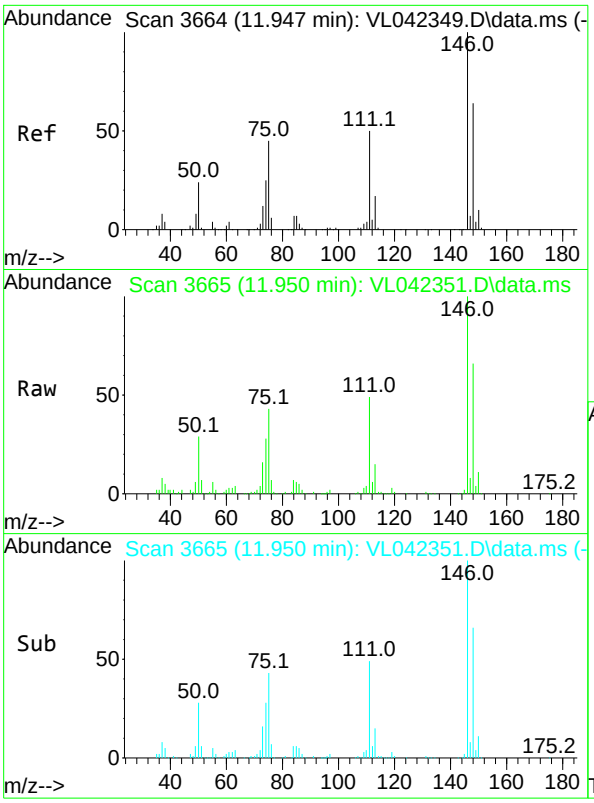


#76
1,4-Dichlorobenzene
Concen: 1.053 ppbv
RT: 11.675 min Scan# 3580
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion:146 Resp: 36692

Ion	Ratio	Lower	Upper
146	100		
111	47.7	24.2	72.6
148	62.3	32.1	96.5

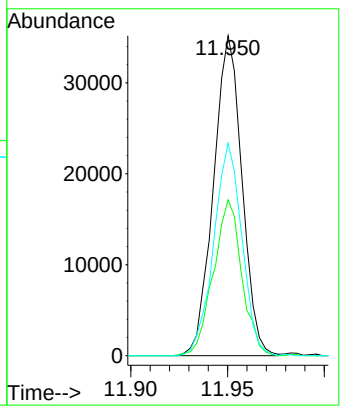




#77
1,2-Dichlorobenzene
Concen: 1.068 ppbv
RT: 11.950 min Scan# 3
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion:146 Resp: 3597

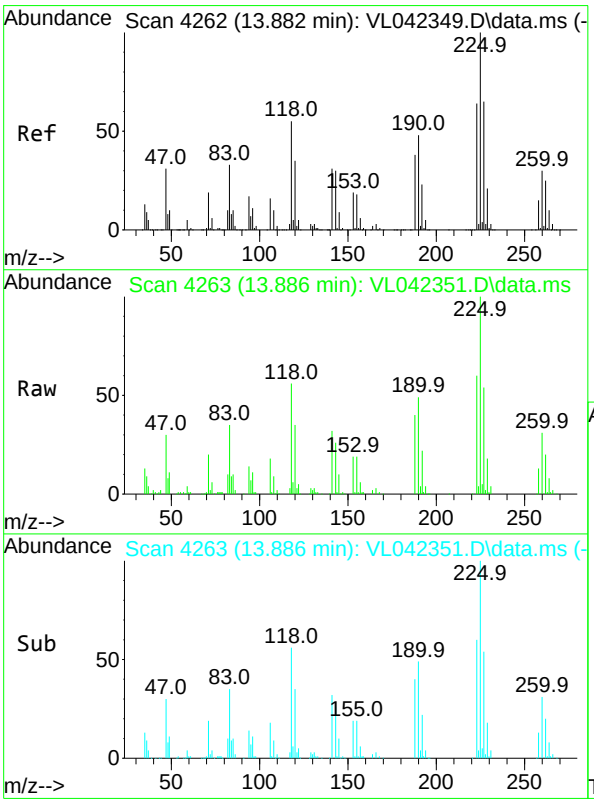
Ion	Ratio	Lower	Upper
146	100		
111	48.7	25.3	75.9
148	65.9	31.5	94.5



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

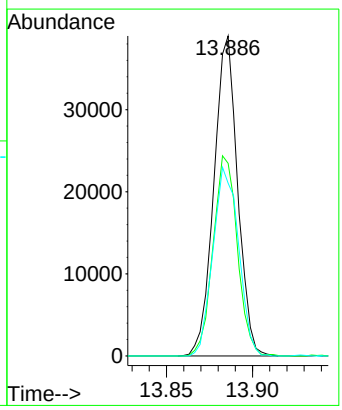
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

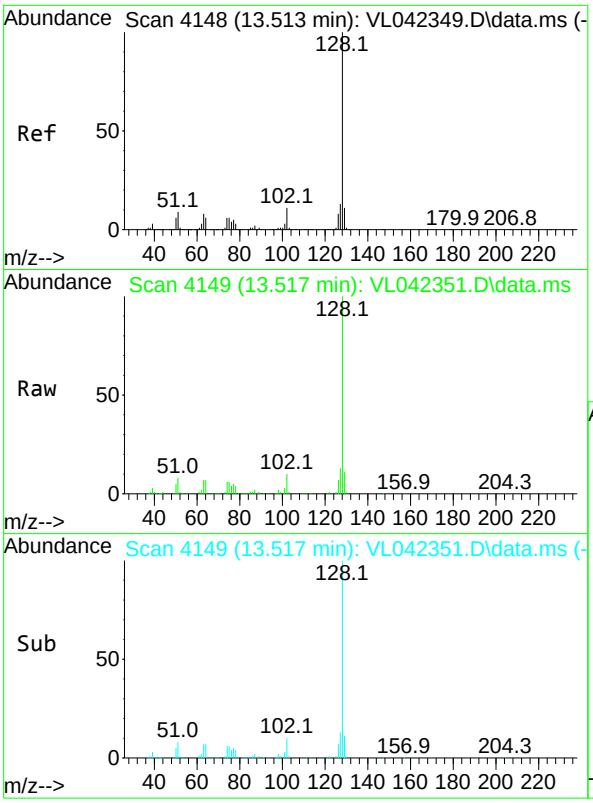


#78
Hexachloro-1,3-Butadiene
Concen: 1.098 ppbv
RT: 13.886 min Scan# 4263
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion:225 Resp: 37377

Ion	Ratio	Lower	Upper
225	100		
223	64.1	50.3	75.5
227	63.6	51.5	77.3

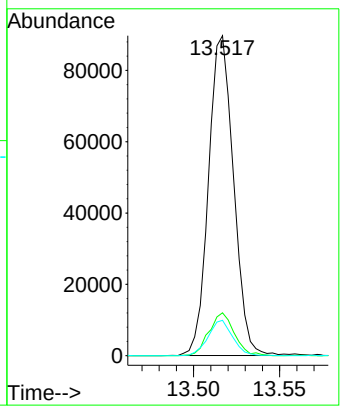




#79
Naphthalene
Concen: 1.138 ppbv
RT: 13.517 min Scan# 4
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion:128 Resp: 9071

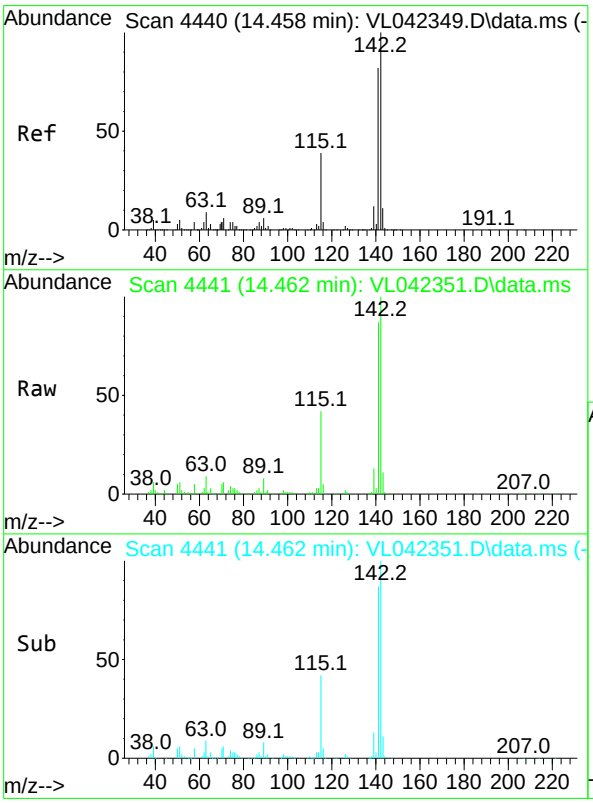
Ion	Ratio	Lower	Upper
128	100		
127	13.4	10.6	15.8
129	11.1	8.6	12.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

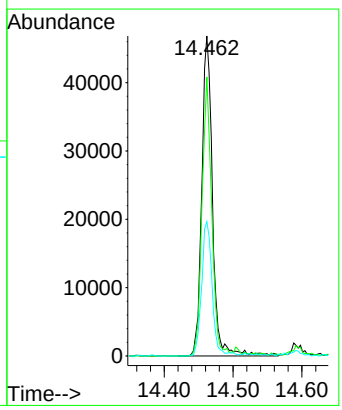
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

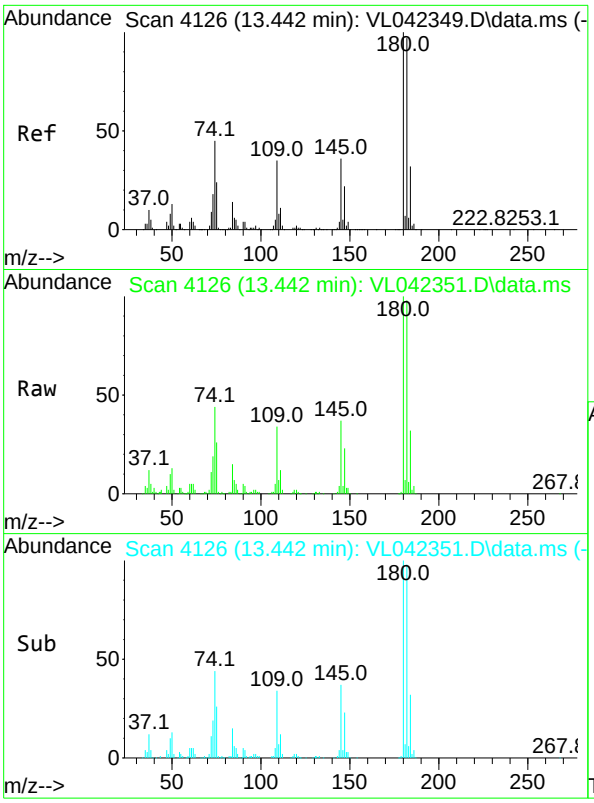


#80
Naphthalene,2-methyl-
Concen: 1.111 ppbv
RT: 14.462 min Scan# 4441
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion:142 Resp: 50487

Ion	Ratio	Lower	Upper
142	100		
141	80.9	66.8	100.2
115	41.2	33.4	50.2

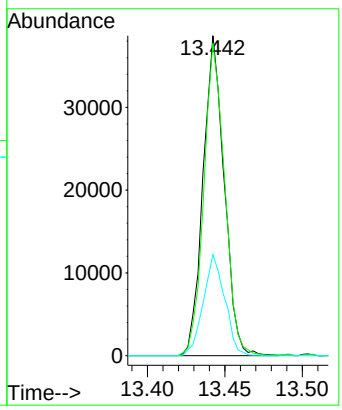




#81
1,2,4-Trichlorobenzene
Concen: 1.074 ppbv
RT: 13.442 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion:180 Resp: 3676

Ion	Ratio	Lower	Upper
180	100		
182	97.0	76.8	115.2
184	32.0	24.6	36.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042352.D
Acq On : 17 Apr 2025 11:19
Operator : SY/MD
Sample : VSTDICC0.5
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 18 01:28:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Fri Apr 18 01:24:29 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.784	49	120542	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.952	114	353137	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.878	117	321644	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.374	95	265161	10.032	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 100.300%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.499	85	11036	0.518	ppbv		92
3) Chlorodifluoromethane	1.476	51	11304	0.557	ppbv	#	84
4) Chloromethane	1.531	50	4534	0.538	ppbv		97
5) Vinyl Chloride	1.580	62	4406	0.480	ppbv		97
6) Bromomethane	1.667	94	2394	0.602	ppbv		95
7) Chloroethane	1.703	64	1824	0.550	ppbv	#	87
8) Dichlorotetrafluoroethane	1.554	85	9381	0.513	ppbv		99
9) Propene	1.483	41	5303	0.574	ppbv		93
10) Heptane	4.978	43	14728m	0.593	ppbv		
11) Trichlorofluoromethane	1.877	101	10150	0.501	ppbv		97
12) 1,1,2-Trichlorotrifluo...	2.136	101	8371	0.506	ppbv		93
13) Ethanol	1.719	45	1656m	2.194	ppbv		
14) Bromoethene	1.780	108	3238	0.519	ppbv	#	93
15) Acetone	1.835	43	11859	0.601	ppbv	#	74
16) 1,3-Butadiene	1.609	39	6120	0.660	ppbv	#	82
17) tert-Butyl alcohol	2.043	59	13640	0.558	ppbv	#	85
18) 1,1-Dichloroethene	2.033	96	4430	0.556	ppbv	#	87
19) Isopropyl Alcohol	1.884	45	6327	0.577	ppbv	#	39
20) Methylene Chloride	2.059	84	5273	0.682	ppbv		93
21) Allyl Chloride	2.094	41	7692	0.565	ppbv	#	81
22) trans-1,2-Dichloroethene	2.340	96	4908	0.557	ppbv		92
23) Vinyl Acetate	2.460	43	3953	0.495	ppbv	#	57
24) 1,1-Dichloroethane	2.408	63	8753	0.523	ppbv	#	94
25) Ethyl Acetate	2.835	43	26686	0.548	ppbv	#	93
26) Hexane	2.823	57	11448	0.581	ppbv		91
27) Carbon Disulfide	2.149	76	11472	0.544	ppbv	#	1
28) Methyl tert-Butyl Ether	2.441	73	6833	0.530	ppbv	#	32
29) Chloroform	2.848	83	14815	0.532	ppbv		93
30) Cyclohexane	3.852	84	8572	0.541	ppbv		94
31) cis-1,2-Dichloroethene	2.722	61	9571	0.511	ppbv		96
32) 1,1,1-Trichloroethane	3.370	97	15413	0.516	ppbv		97
34) 2-Butanone	2.560	43	15640	0.560	ppbv		97
35) Carbon Tetrachloride	3.761	117	14683	0.459	ppbv		87
36) Benzene	3.651	78	20233	0.531	ppbv		97
37) 1,2-Dichloroethane	3.217	62	12194	0.533	ppbv	#	95
38) Trichloroethene	4.551	130	7819	0.468	ppbv	#	78
39) 1,2-Dichloropropane	4.308	63	7790m	0.548	ppbv		
40) 1,4-Dioxane	4.599	88	4637m	0.603	ppbv		
41) Tetrahydrofuran	3.062	42	9144m	0.567	ppbv		
42) Bromodichloromethane	4.489	83	16642	0.523	ppbv	#	91
43) Methyl Methacrylate	4.881	69	9620m	0.563	ppbv		
44) 2,2,4-Trimethylpentane	4.635	57	34170	0.519	ppbv		91
45) t-1,3-Dichloropropene	6.415	75	9073m	0.517	ppbv		

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042352.D
Acq On : 17 Apr 2025 11:19
Operator : SY/MD
Sample : VSTDICC0.5
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 18 01:28:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Fri Apr 18 01:24:29 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46)	cis-1,3-Dichloropropene	5.596	75	10827m	0.505	ppbv		
47)	1,1,2-Trichloroethane	6.577	97	7466m	0.516	ppbv		
48)	Dibromochloromethane	7.386	129	13122	0.514	ppbv		97
49)	Bromoform	9.477	173	10988	0.492	ppbv		99
50)	4-Methyl-2-Pentanone	5.761	43	27206m	0.585	ppbv		
51)	2-Hexanone	7.441	43	23684	0.564	ppbv		98
52)	Tetrachloroethene	8.221	164	7412	0.503	ppbv	#	88
53)	Toluene	6.927	91	24200	0.529	ppbv		97
54)	1,2-Dibromoethane	7.645	107	10282	0.499	ppbv		84
56)	1,1,1,2-Tetrachloroethane	8.930	131	9987	0.513	ppbv	#	1
57)	Chlorobenzene	8.917	112	18149m	0.543	ppbv		
58)	Ethyl Benzene	9.351	91	32624	0.512	ppbv		97
59)	m/p-Xylene	9.532	91	54197m	1.053	ppbv		
60)	o-Xylene	9.963	91	27983	0.541	ppbv		99
61)	Styrene	9.869	104	12736	0.516	ppbv		96
62)	Isopropylbenzene	10.539	105	40481	0.533	ppbv		100
63)	1,1,2,2-Tetrachloroethane	9.959	83	15920	0.474	ppbv		99
64)	n-propylbenzene	10.985	120	10369	0.544	ppbv		97
65)	tert-Butylbenzene	11.529	119	37294	0.535	ppbv		93
66)	Benzyl Chloride	11.613	91	3878	0.506	ppbv	#	91
67)	sec-Butylbenzene	11.765	105	52139	0.537	ppbv		97
69)	p-Isopropyltoluene	11.924	119	45574	0.541	ppbv		98
70)	n-Butylbenzene	12.280	91	48004	0.547	ppbv		99
71)	2-Chlorotoluene	10.898	91	31709	0.533	ppbv		100
72)	4-Ethyltoluene	11.125	105	33048	0.523	ppbv	#	95
73)	1,3,5-Trimethylbenzene	11.202	105	30464	0.546	ppbv		99
74)	1,2,4-Trimethylbenzene	11.536	105	37765	0.579	ppbv	#	90
75)	1,3-Dichlorobenzene	11.607	146	18003	0.531	ppbv		99
76)	1,4-Dichlorobenzene	11.668	146	18300	0.537	ppbv		96
77)	1,2-Dichlorobenzene	11.947	146	17446	0.530	ppbv		95
78)	Hexachloro-1,3-Butadiene	13.879	225	18705	0.562	ppbv		98
79)	Naphthalene	13.513	128	38521	0.494	ppbv	#	92
80)	Naphthalene,2-methyl-	14.458	142	21076	0.475	ppbv		96
81)	1,2,4-Trichlorobenzene	13.442	180	16504	0.493	ppbv		97

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

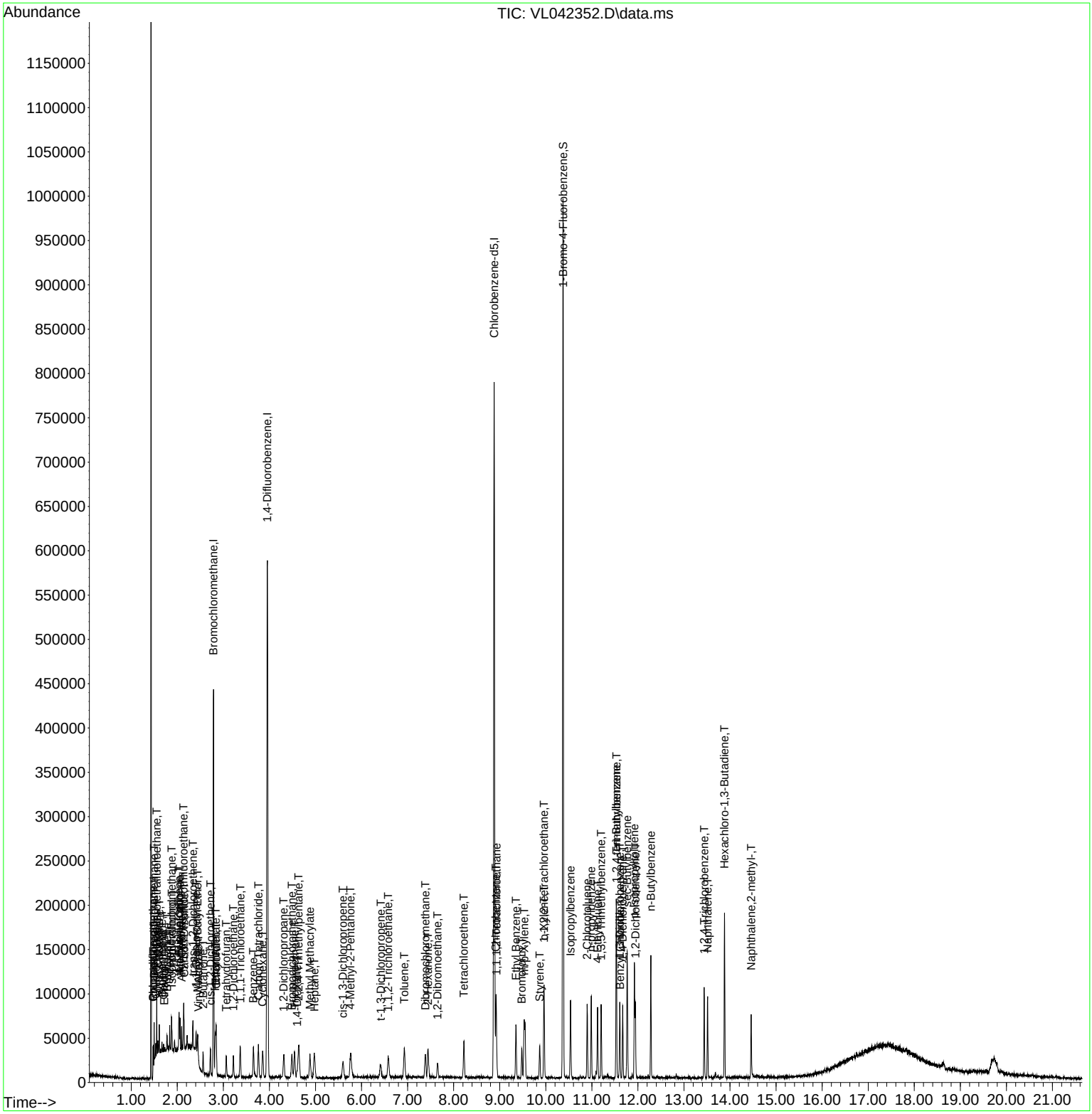
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042352.D
Acq On : 17 Apr 2025 11:19
Operator : SY/MD
Sample : VSTDICC0.5
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

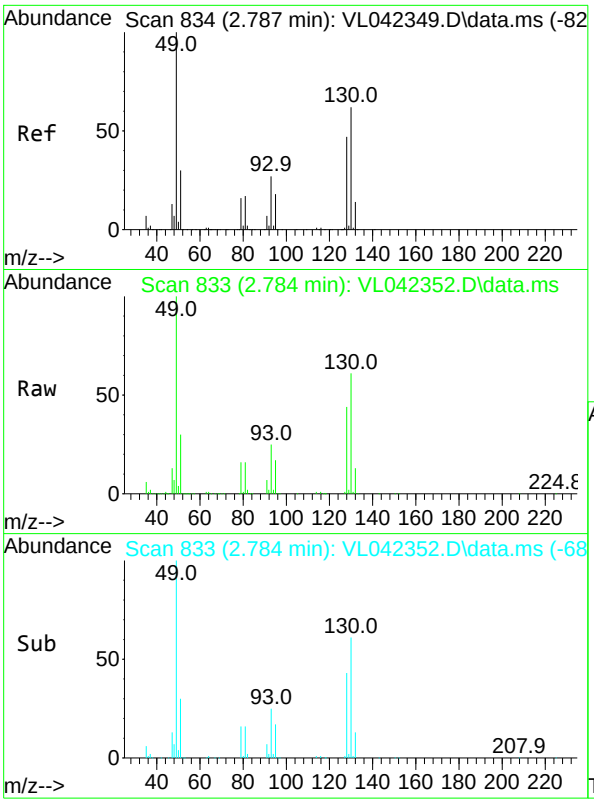
Quant Time: Apr 18 01:28:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Apr 18 01:24:29 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

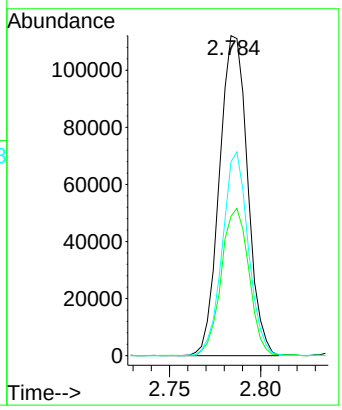




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 8
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 49 Resp: 12054

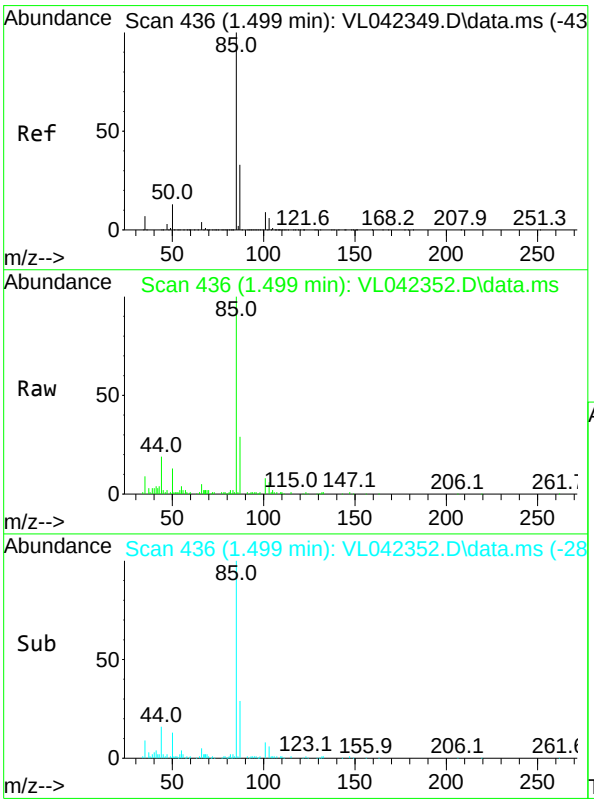
Ion	Ratio	Lower	Upper
49	100		
128	45.3	22.8	68.4
130	59.0	29.3	88.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

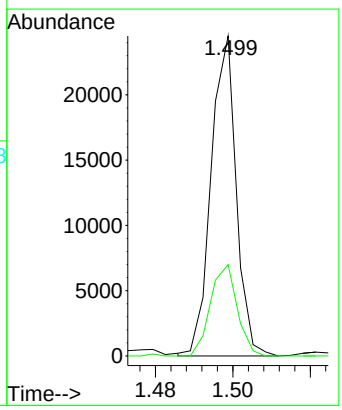
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

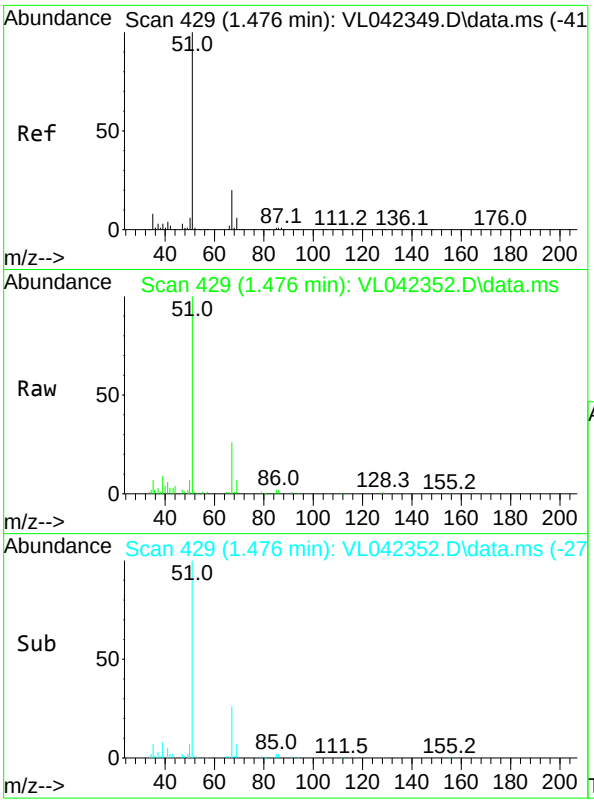


#2
Dichlorodifluoromethane
Concen: 0.518 ppbv
RT: 1.499 min Scan# 436
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 85 Resp: 11036

Ion	Ratio	Lower	Upper
85	100		
87	28.6	26.6	39.8

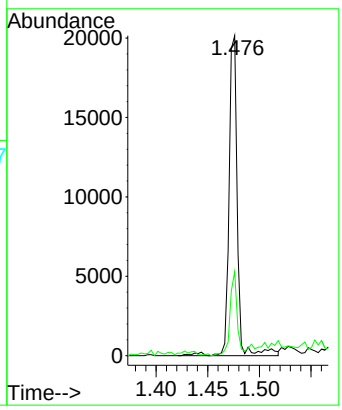




#3
Chlorodifluoromethane
Concen: 0.557 ppbv
RT: 1.476 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 51 Resp: 1130

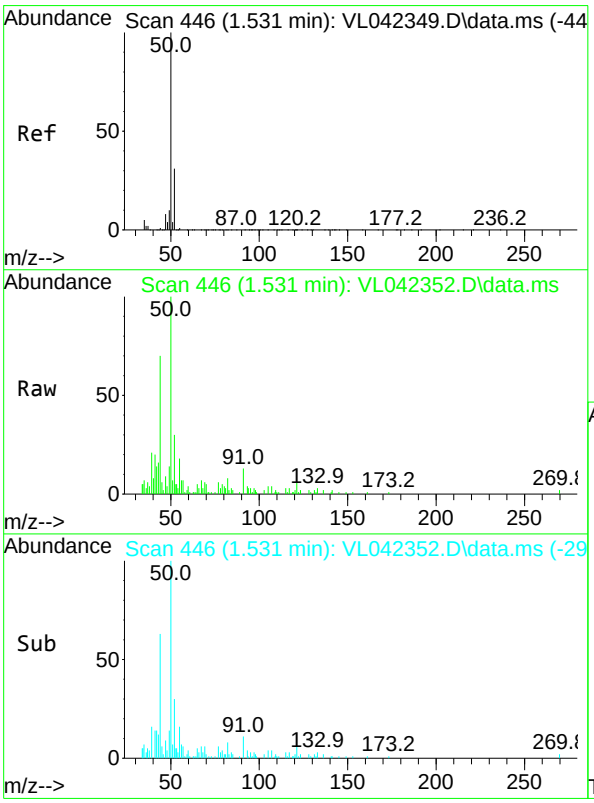
Ion	Ratio	Lower	Upper
51	100		
67	27.8	16.2	24.4



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

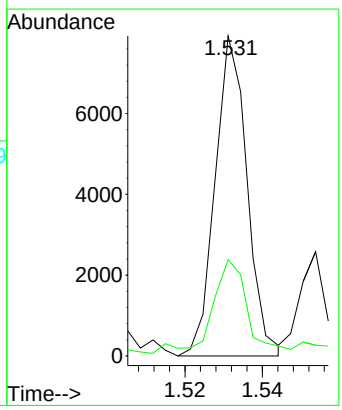
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

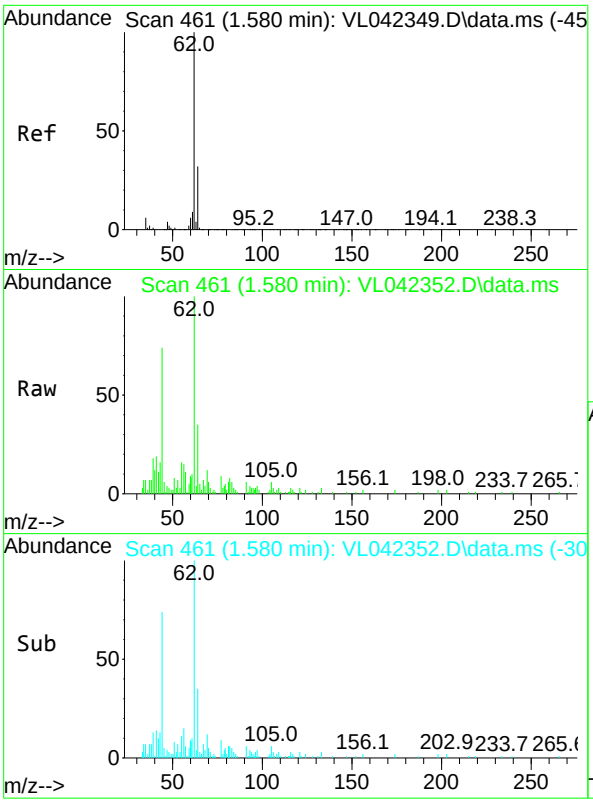


#4
Chloromethane
Concen: 0.538 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 50 Resp: 4534

Ion	Ratio	Lower	Upper
50	100		
52	32.8	24.7	37.1

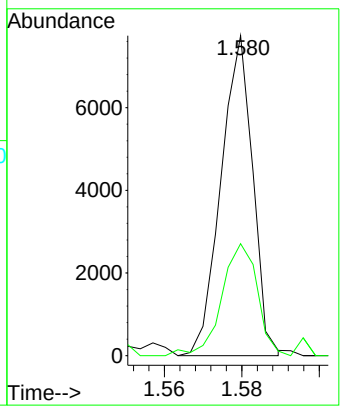




#5
Vinyl Chloride
Concen: 0.480 ppbv
RT: 1.580 min Scan# 4(
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 62 Resp: 440(

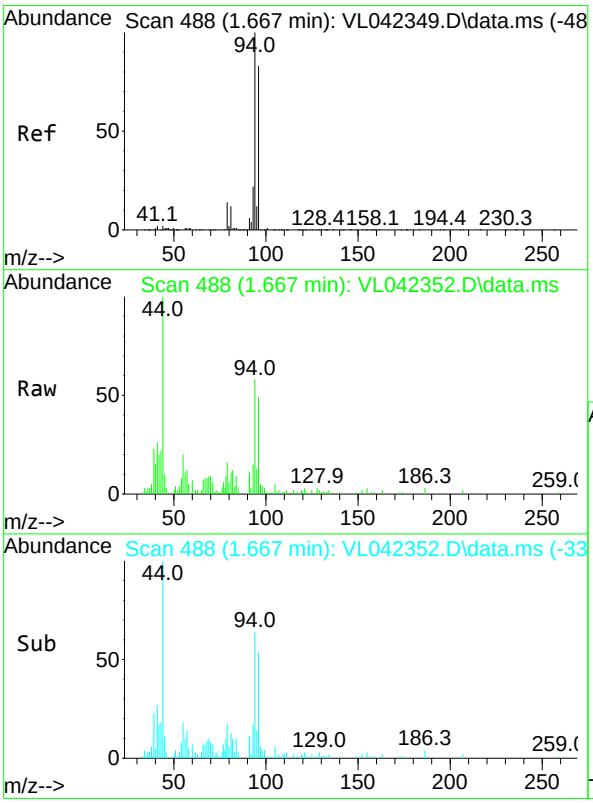
Ion	Ratio	Lower	Upper
62	100		
64	33.5	25.4	38.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

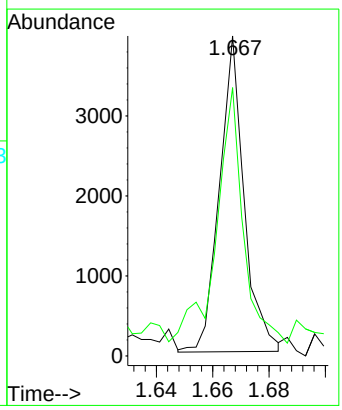
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

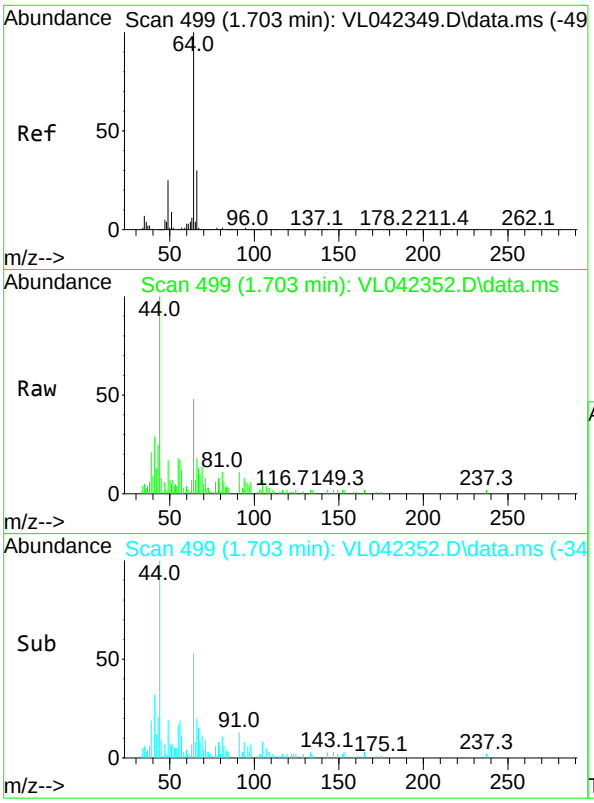


#6
Bromomethane
Concen: 0.602 ppbv
RT: 1.667 min Scan# 488
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 94 Resp: 2394

Ion	Ratio	Lower	Upper
94	100		
96	78.1	66.2	99.2

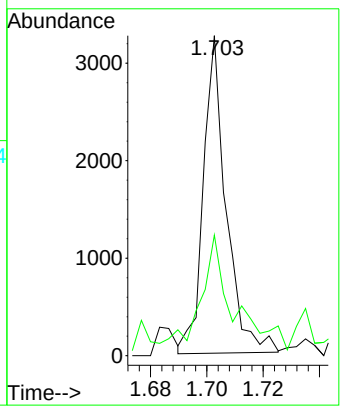




#7
Chloroethane
Concen: 0.550 ppbv
RT: 1.703 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 64 Resp: 182

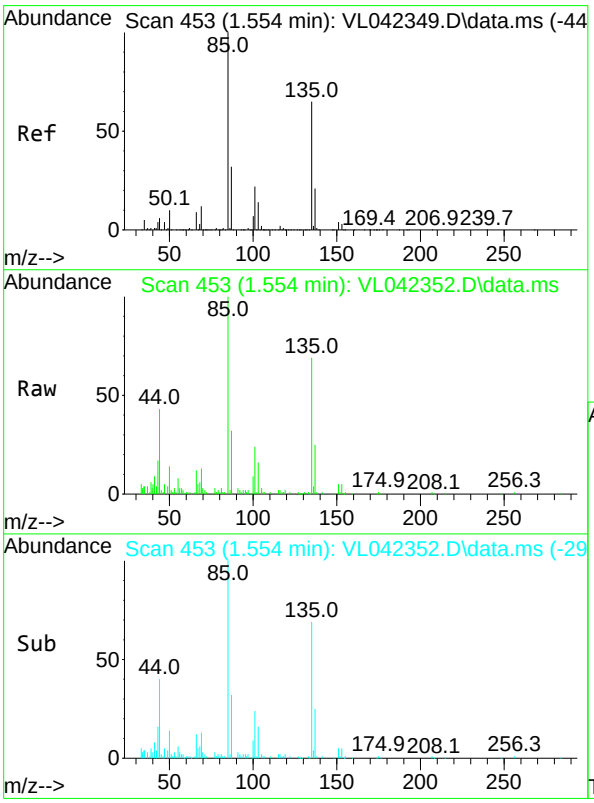
Ion	Ratio	Lower	Upper
64	100		
66	37.7	24.6	37.0#



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

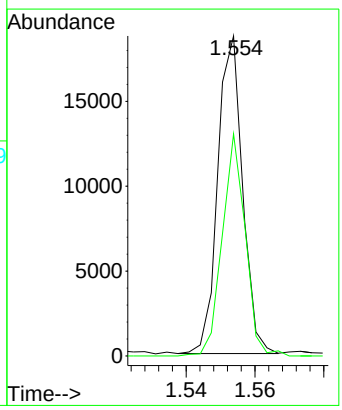
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

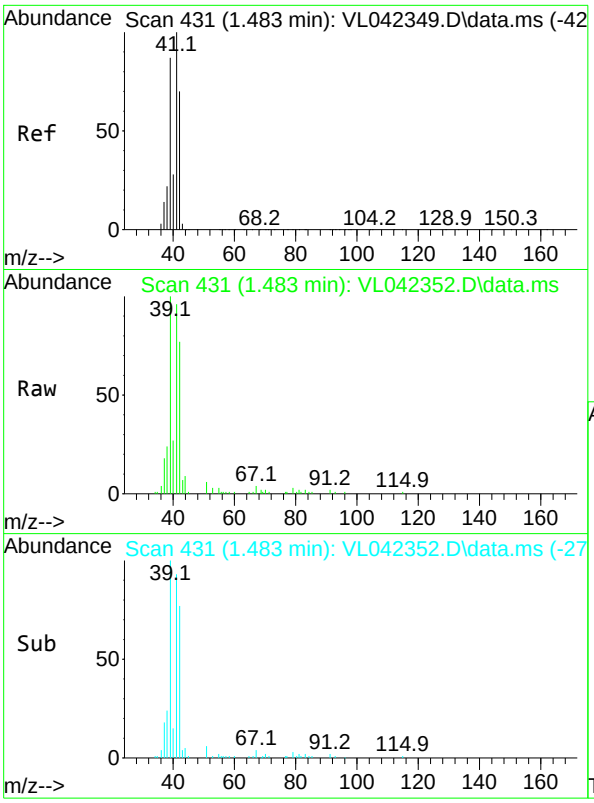


#8
Dichlorotetrafluoroethane
Concen: 0.513 ppbv
RT: 1.554 min Scan# 453
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 85 Resp: 9381

Ion	Ratio	Lower	Upper
85	100		
135	66.2	52.2	78.2

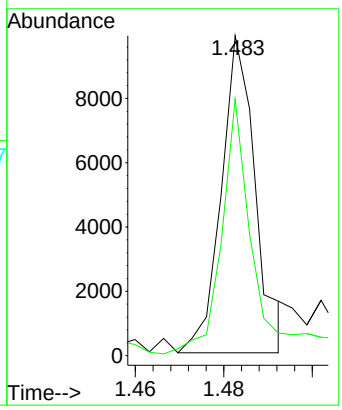




#9
Propene
Concen: 0.574 ppbv
RT: 1.483 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 41 Resp: 530

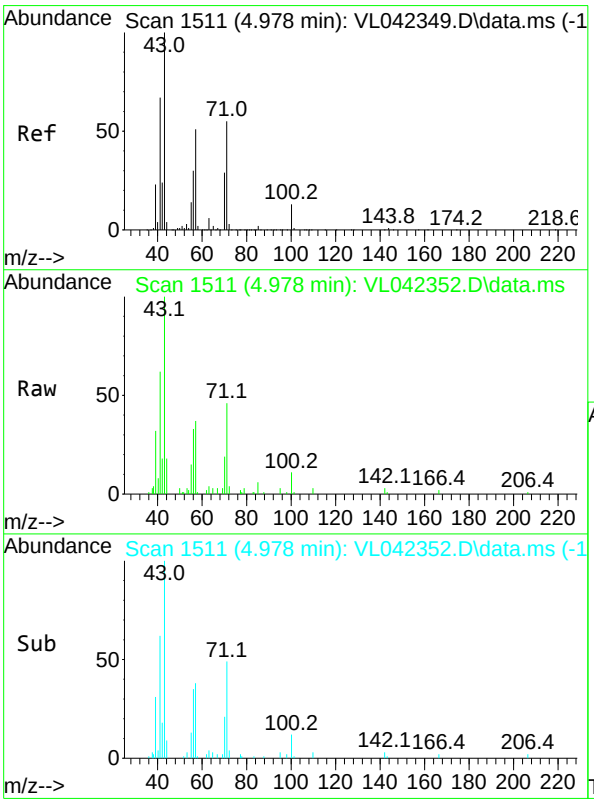
Ion	Ratio	Lower	Upper
41	100		
42	64.8	56.2	84.4



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

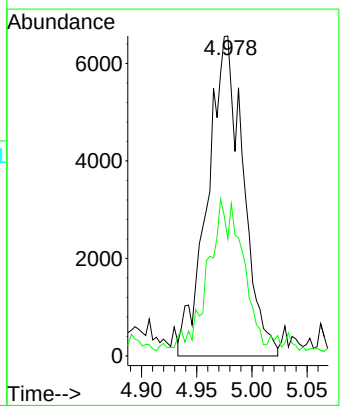
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

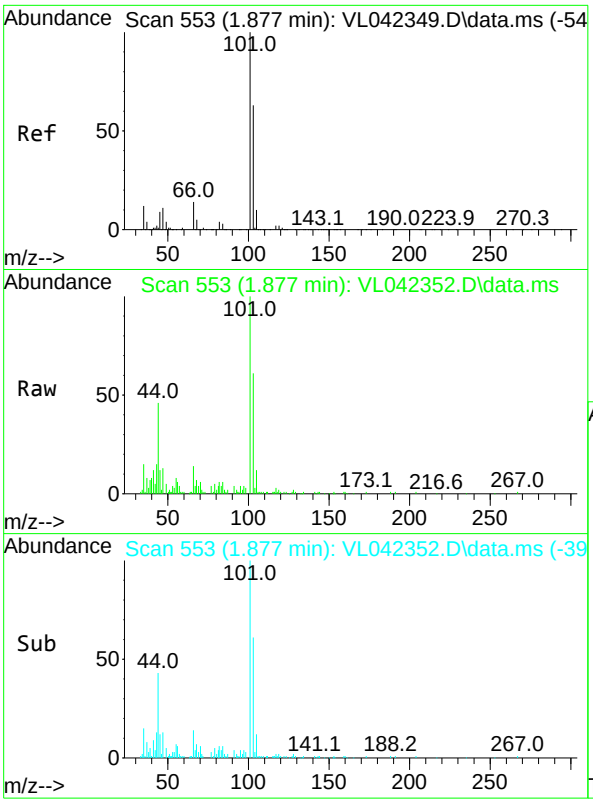


#10
Heptane
Concen: 0.593 ppbv m
RT: 4.978 min Scan# 1511
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 43 Resp: 14728

Ion	Ratio	Lower	Upper
43	100		
57	51.1	39.9	59.9





#11
Trichlorofluoromethane
Concen: 0.501 ppbv
RT: 1.877 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

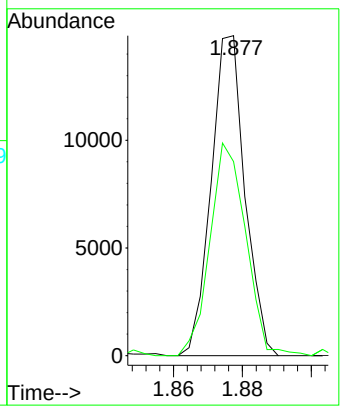
Tgt Ion:101 Resp: 1015

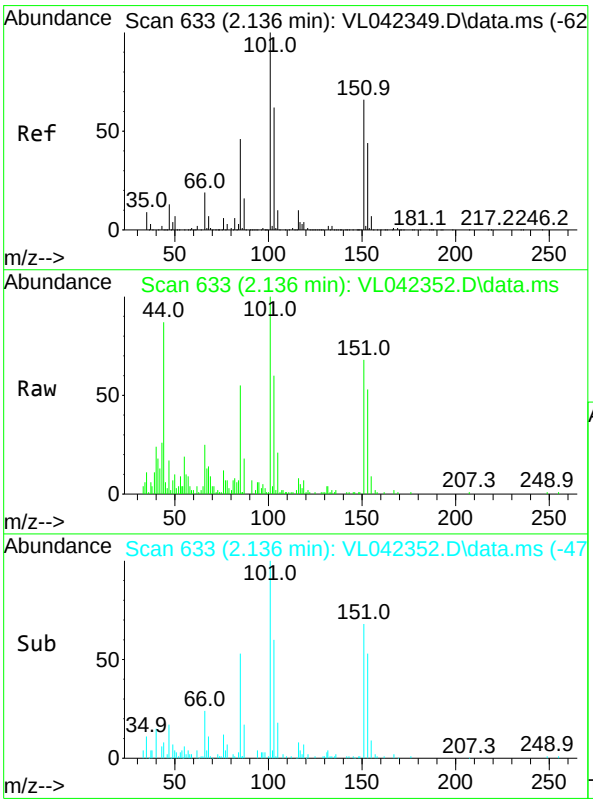
Ion	Ratio	Lower	Upper
101	100		
103	60.6	50.1	75.1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

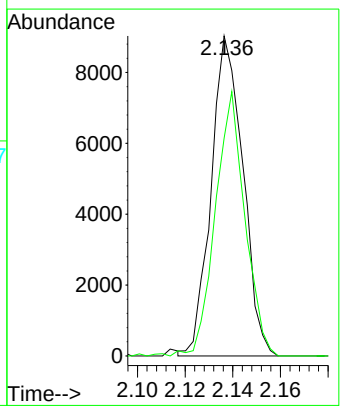


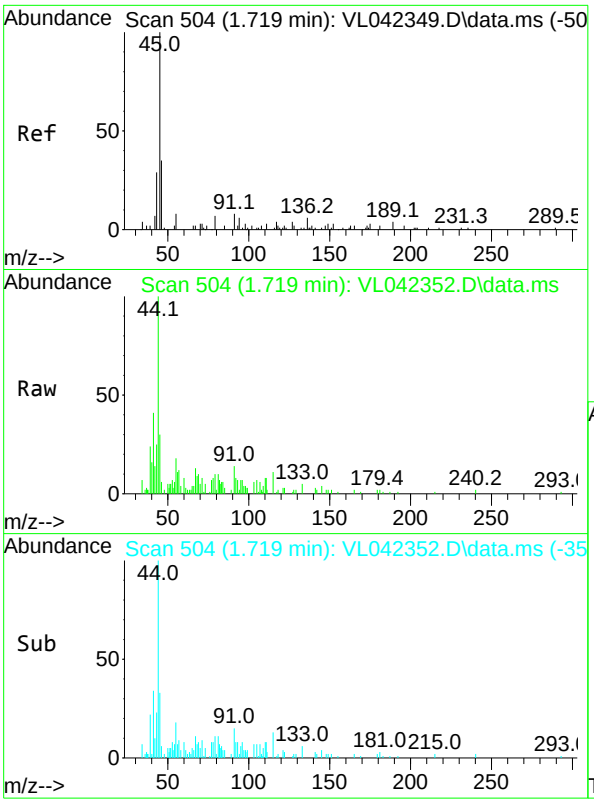


#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.506 ppbv
RT: 2.136 min Scan# 633
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion:101 Resp: 8371

Ion	Ratio	Lower	Upper
101	100		
151	77.4	57.0	85.6

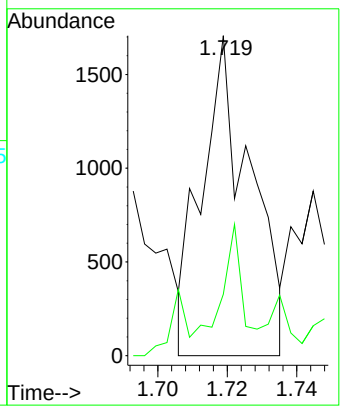




#13
Ethanol
Concen: 2.194 ppbv m
RT: 1.719 min Scan# 5(
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 45 Resp: 165(

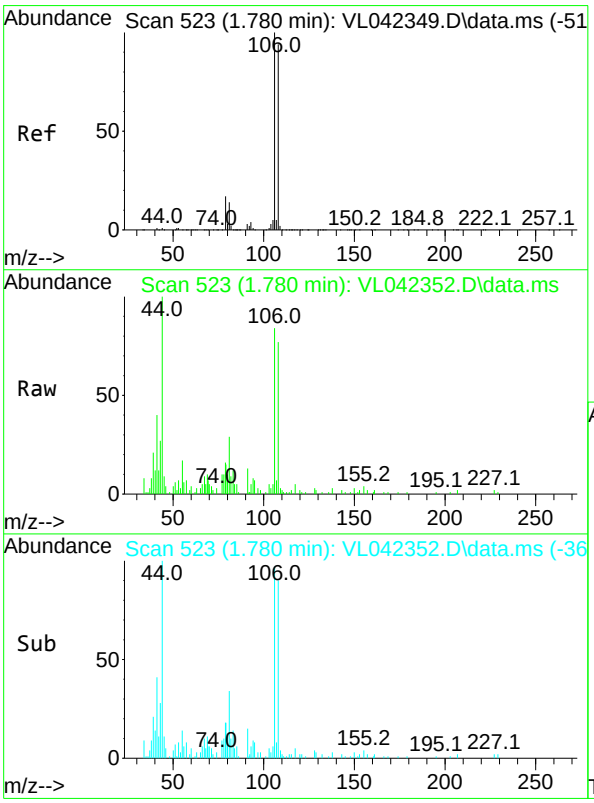
Ion	Ratio	Lower	Upper
45	100		
46	0.0	21.9	87.7#



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

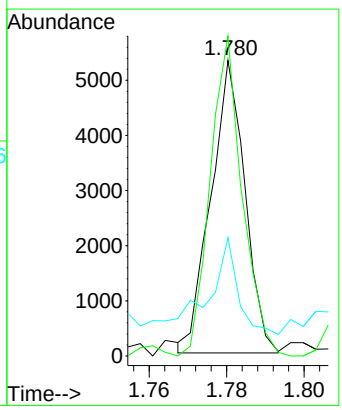
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

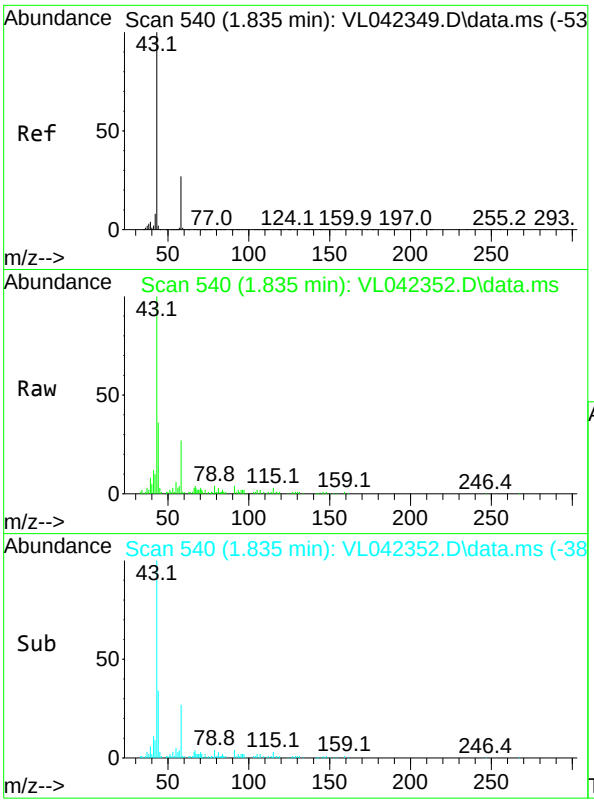


#14
Bromoethene
Concen: 0.519 ppbv
RT: 1.780 min Scan# 523
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion:108 Resp: 3238

Ion	Ratio	Lower	Upper
108	100		
106	110.3	85.9	128.9
79	33.0	13.9	20.9#

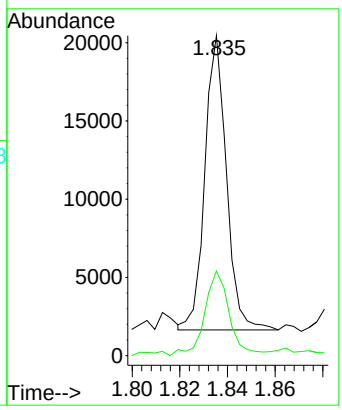




#15
Acetone
Concen: 0.601 ppbv
RT: 1.835 min Scan# 54
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 43 Resp: 1185

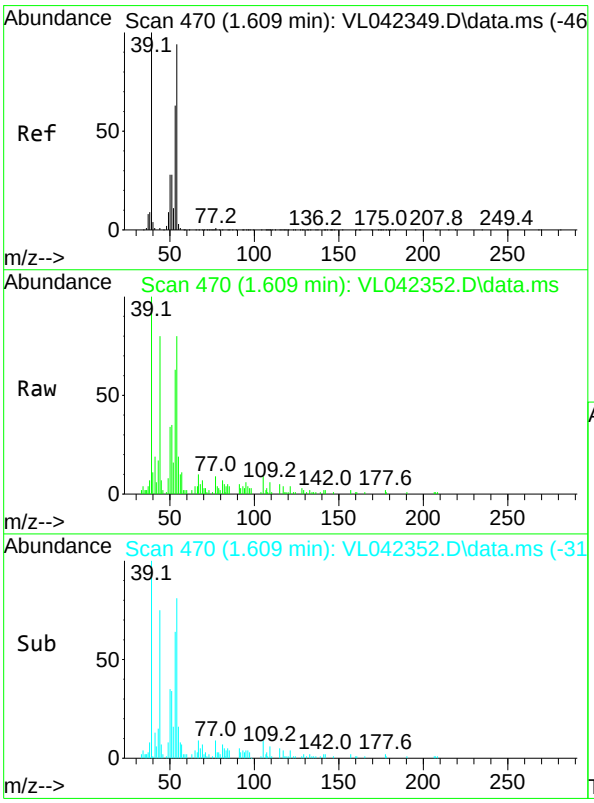
Ion	Ratio	Lower	Upper
43	100		
58	41.7	22.4	33.6#



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

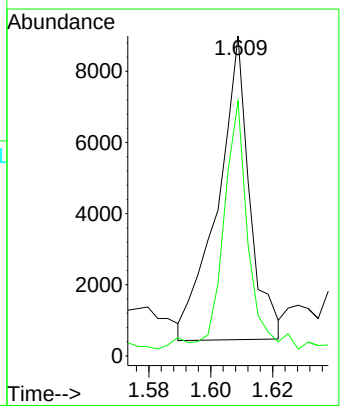
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

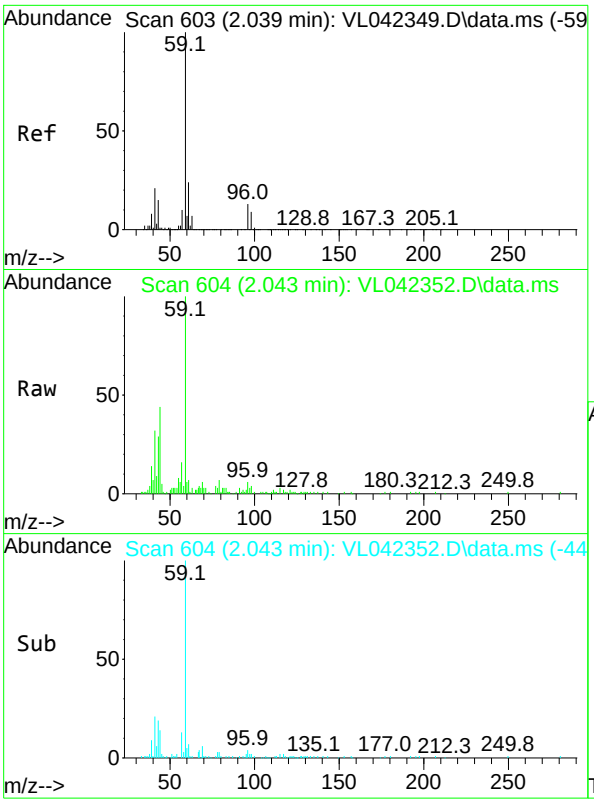


#16
1,3-Butadiene
Concen: 0.660 ppbv
RT: 1.609 min Scan# 470
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 39 Resp: 6120

Ion	Ratio	Lower	Upper
39	100		
54	64.7	64.9	97.3#

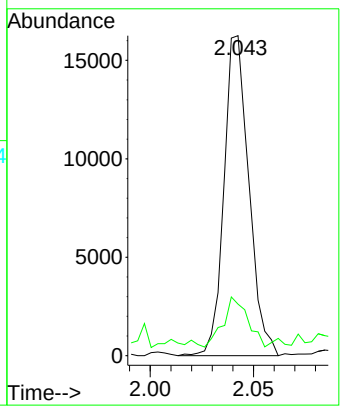




#17
tert-Butyl alcohol
Concen: 0.558 ppbv
RT: 2.043 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 59 Resp: 1364

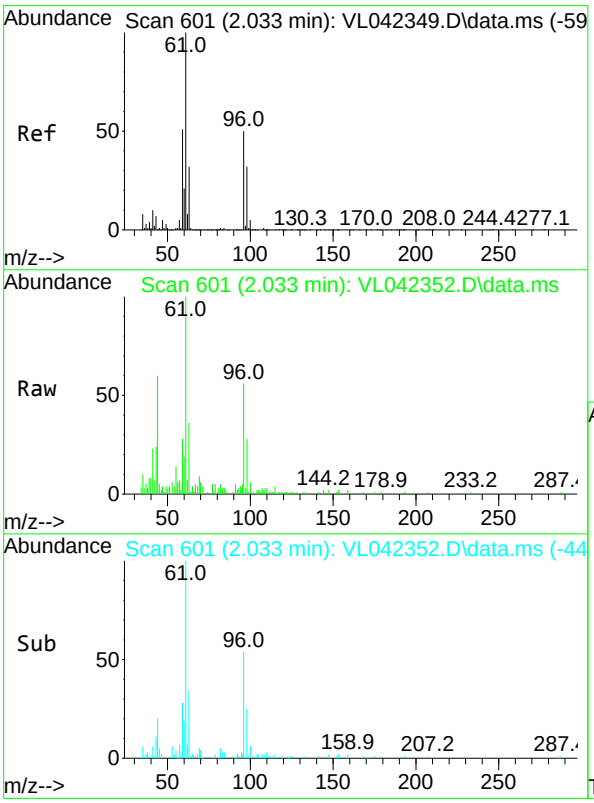
Ion	Ratio	Lower	Upper
59	100		
57	16.5	8.7	13.1#



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
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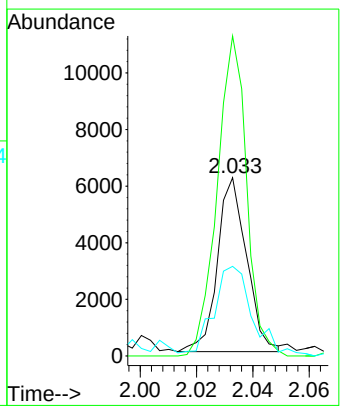
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

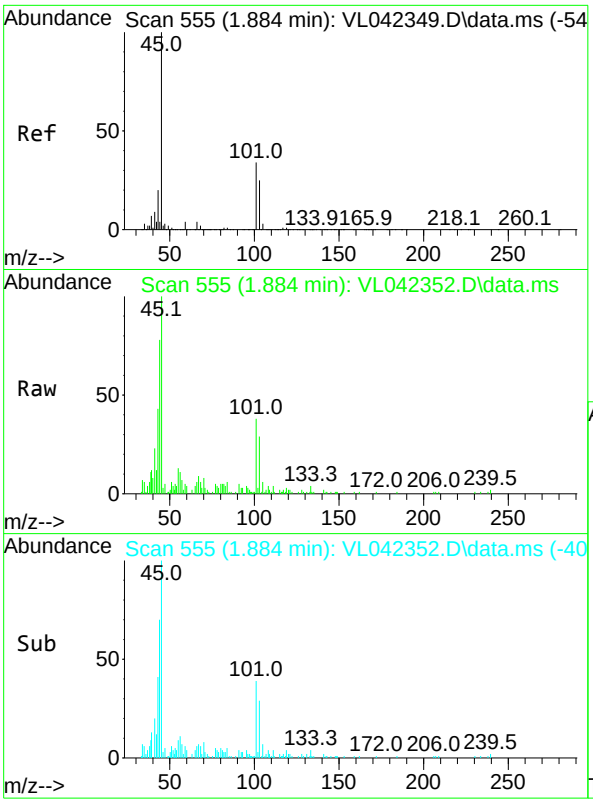


#18
1,1-Dichloroethene
Concen: 0.556 ppbv
RT: 2.033 min Scan# 601
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 96 Resp: 4430

Ion	Ratio	Lower	Upper
96	100		
61	183.9	160.2	240.2
98	49.7	51.0	76.4#





#19
Isopropyl Alcohol
Concen: 0.577 ppbv
RT: 1.884 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

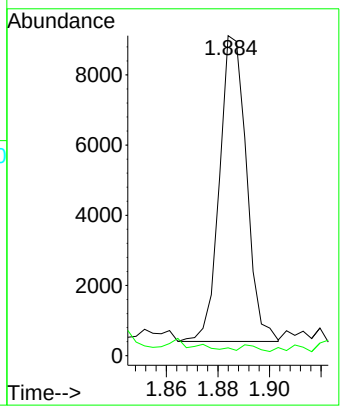
Tgt Ion: 45 Resp: 632

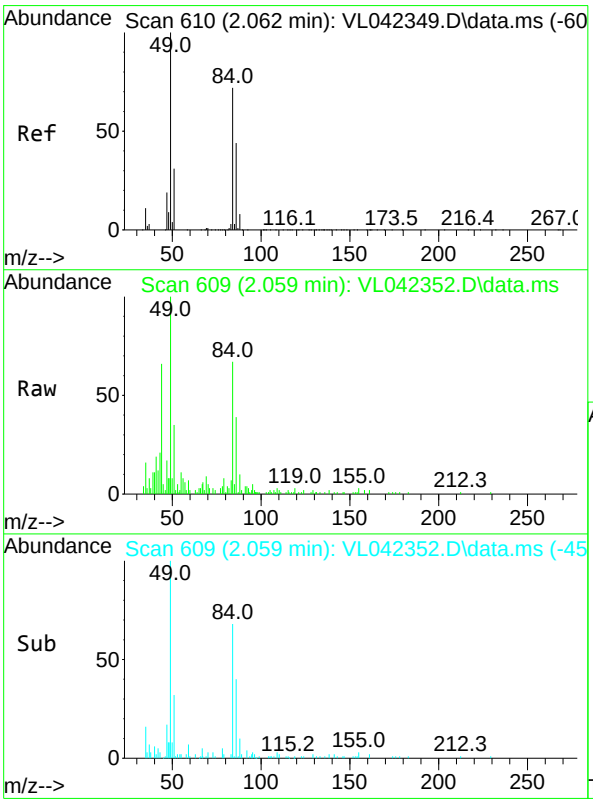
Ion	Ratio	Lower	Upper
45	100		
58	3.8	34.5	51.7#

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

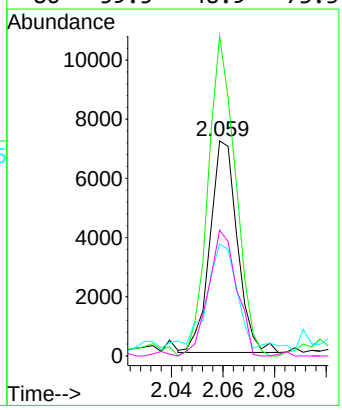


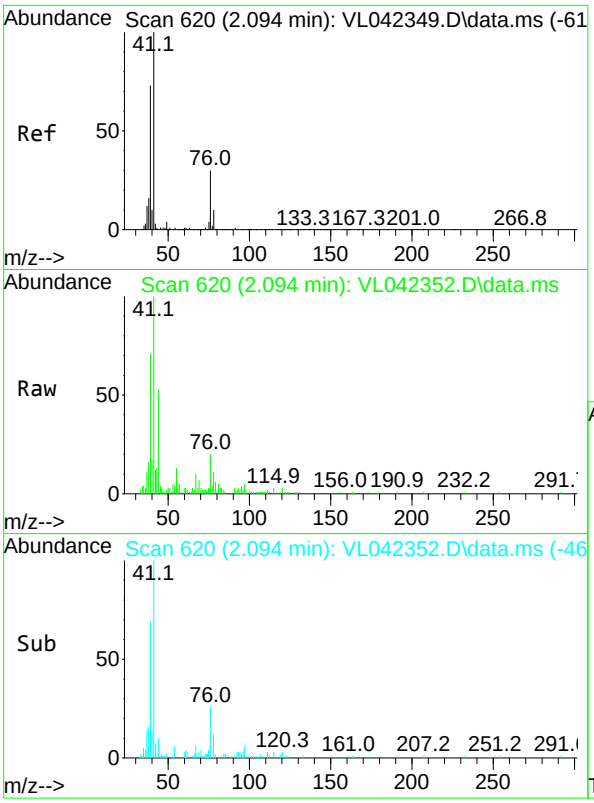


#20
Methylene Chloride
Concen: 0.682 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 84 Resp: 5273

Ion	Ratio	Lower	Upper
84	100		
49	151.3	111.6	167.4
51	48.1	35.1	52.7
86	59.5	48.9	73.3

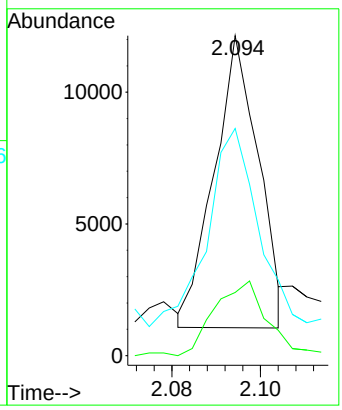




#21
Allyl Chloride
Concen: 0.565 ppbv
RT: 2.094 min Scan# 6
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 41 Resp: 769

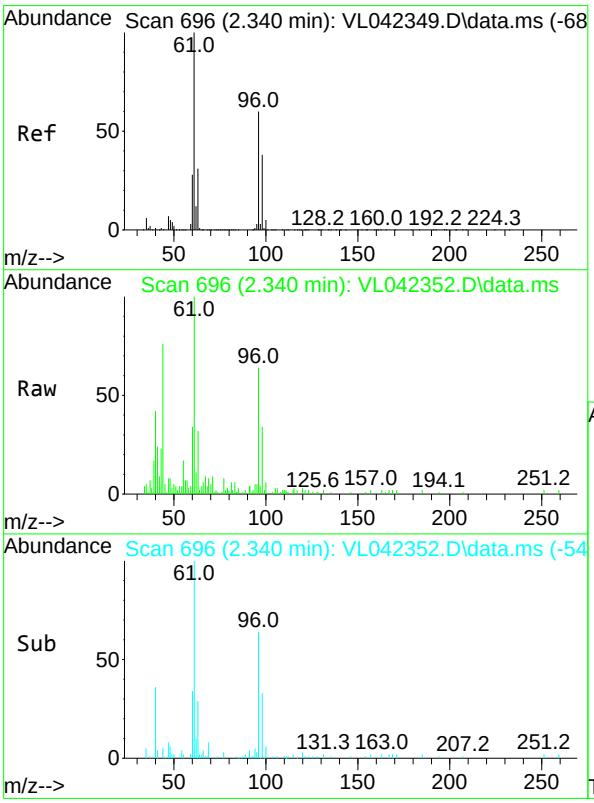
Ion	Ratio	Lower	Upper
41	100		
76	31.1	24.8	37.2
39	98.8	60.6	90.8#



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

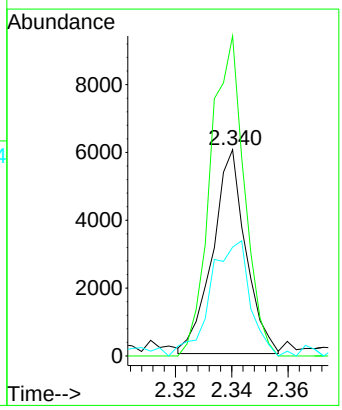
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

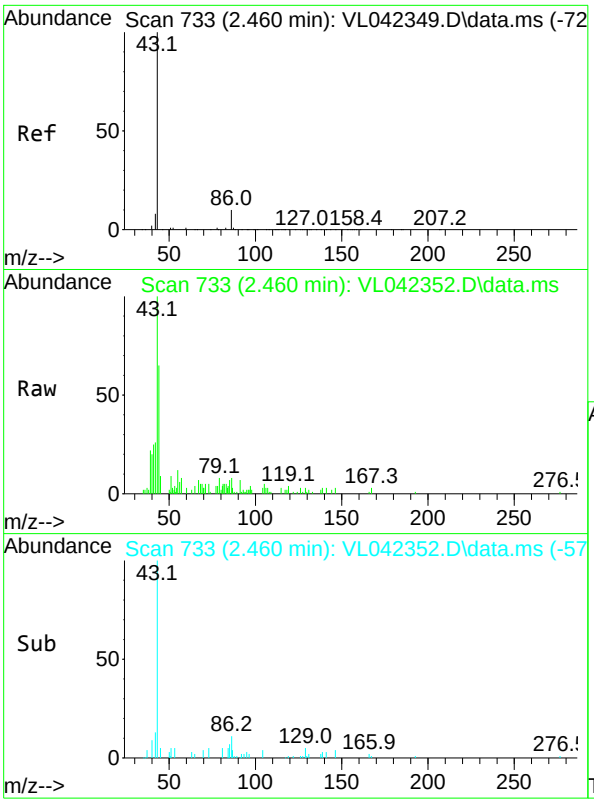


#22
trans-1,2-Dichloroethene
Concen: 0.557 ppbv
RT: 2.340 min Scan# 696
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 96 Resp: 4908

Ion	Ratio	Lower	Upper
96	100		
61	158.7	133.7	200.5
98	54.0	50.3	75.5

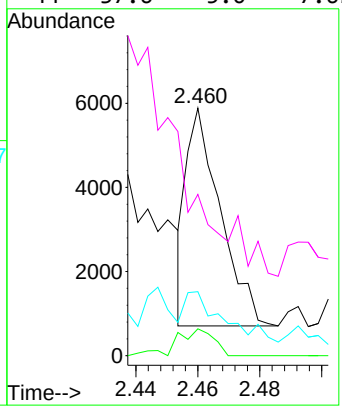




#23
Vinyl Acetate
Concen: 0.495 ppbv
RT: 2.460 min Scan# 7
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 43 Resp: 395

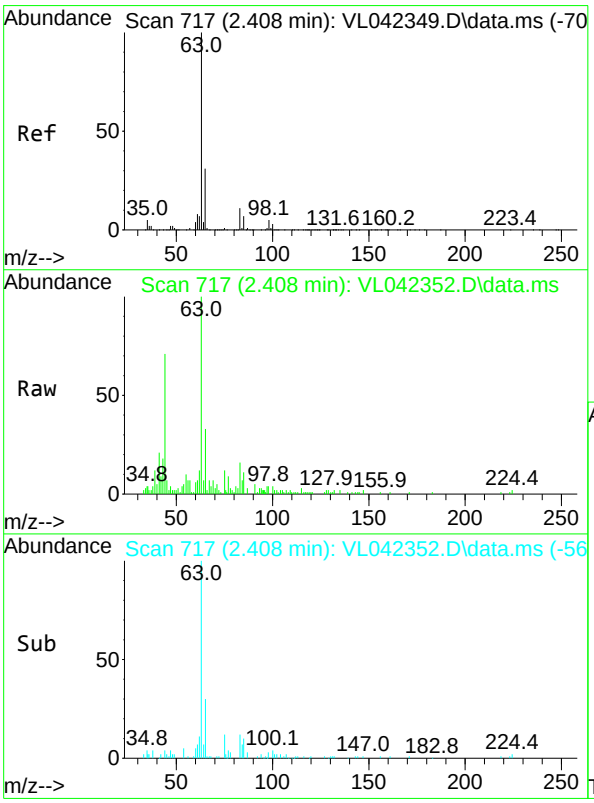
Ion	Ratio	Lower	Upper
43	100		
86	12.4	6.5	9.7#
42	23.2	7.8	11.8#
44	37.6	5.0	7.6#



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

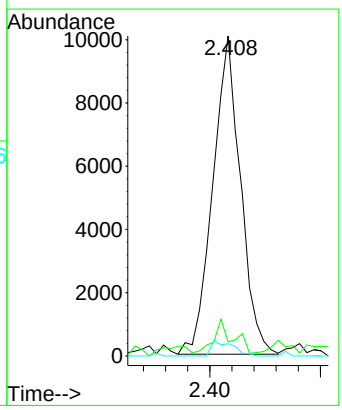
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

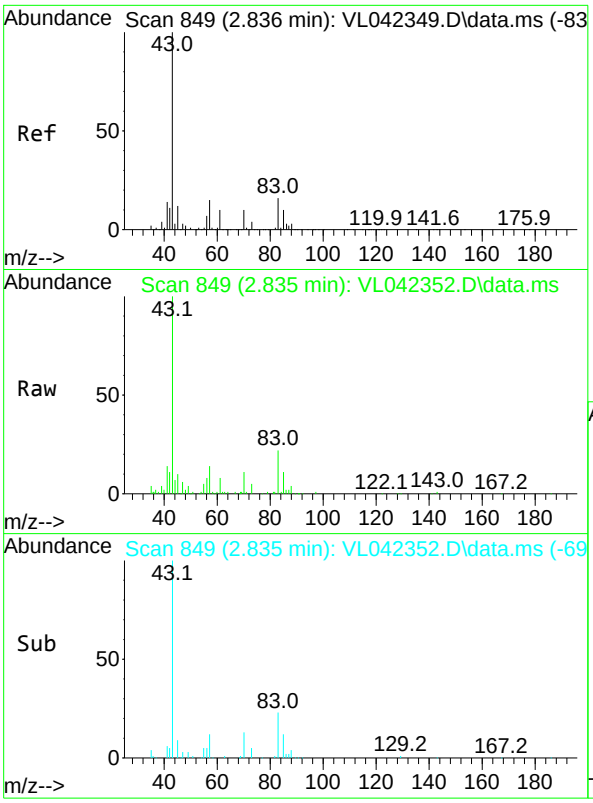


#24
1,1-Dichloroethane
Concen: 0.523 ppbv
RT: 2.408 min Scan# 717
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 63 Resp: 8753

Ion	Ratio	Lower	Upper
63	100		
98	1.4	2.3	6.8#
100	3.8	1.6	4.8

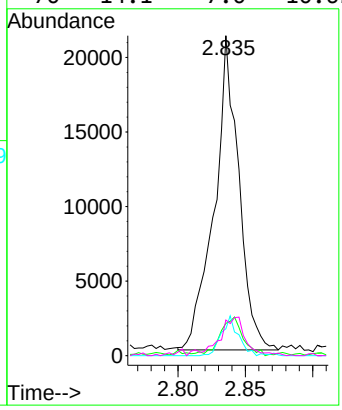




#25
Ethyl Acetate
Concen: 0.548 ppbv
RT: 2.835 min Scan# 84
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 43 Resp: 2668

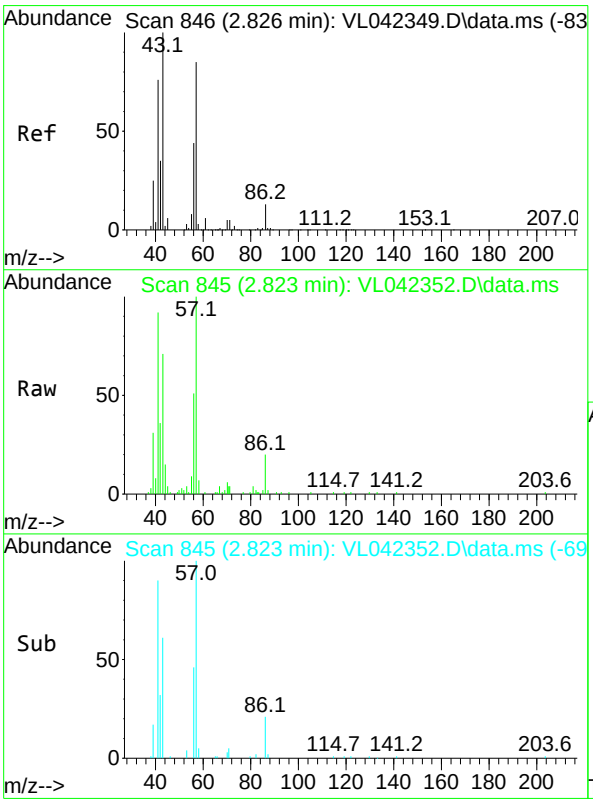
Ion	Ratio	Lower	Upper
43	100		
45	13.3	8.3	12.5#
61	9.0	7.3	10.9
70	14.1	7.0	10.6#



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

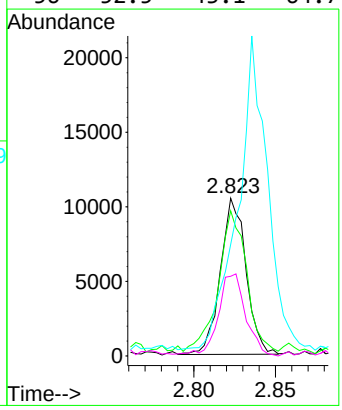
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

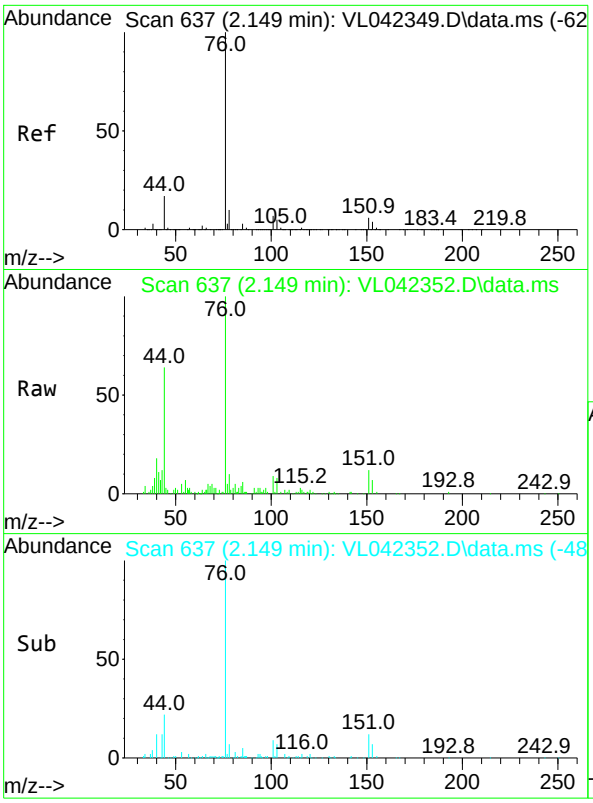


#26
Hexane
Concen: 0.581 ppbv
RT: 2.823 min Scan# 845
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 57 Resp: 11448

Ion	Ratio	Lower	Upper
57	100		
41	103.5	77.9	116.9
43	240.0	208.4	312.6
56	52.5	43.1	64.7

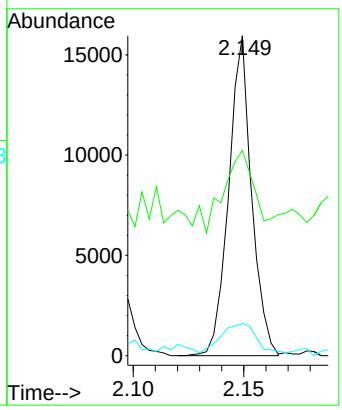




#27
Carbon Disulfide
Concen: 0.544 ppbv
RT: 2.149 min Scan# 6
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 76 Resp: 1147

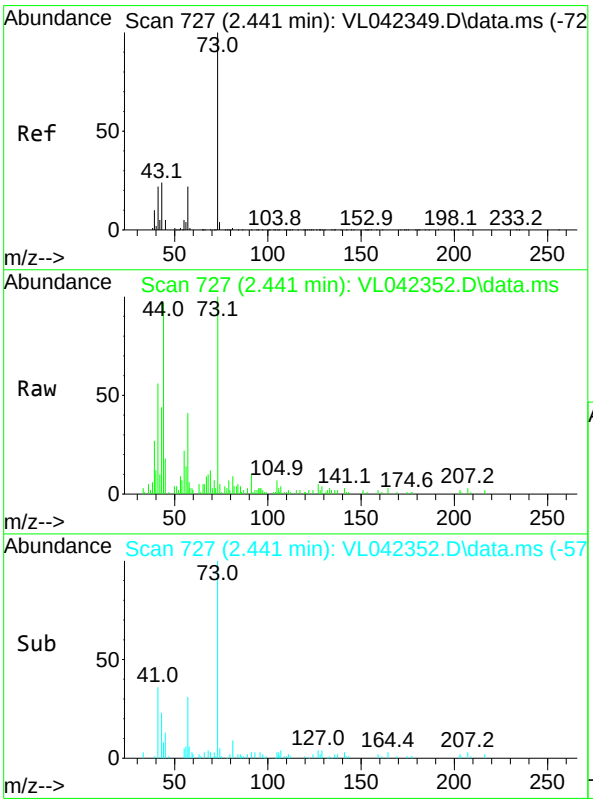
Ion	Ratio	Lower	Upper
76	100		
44	123.7	15.5	23.3#
78	18.8	9.3	13.9#



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

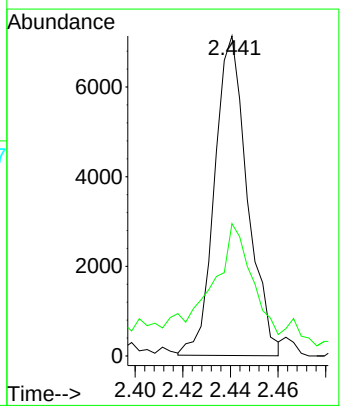
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

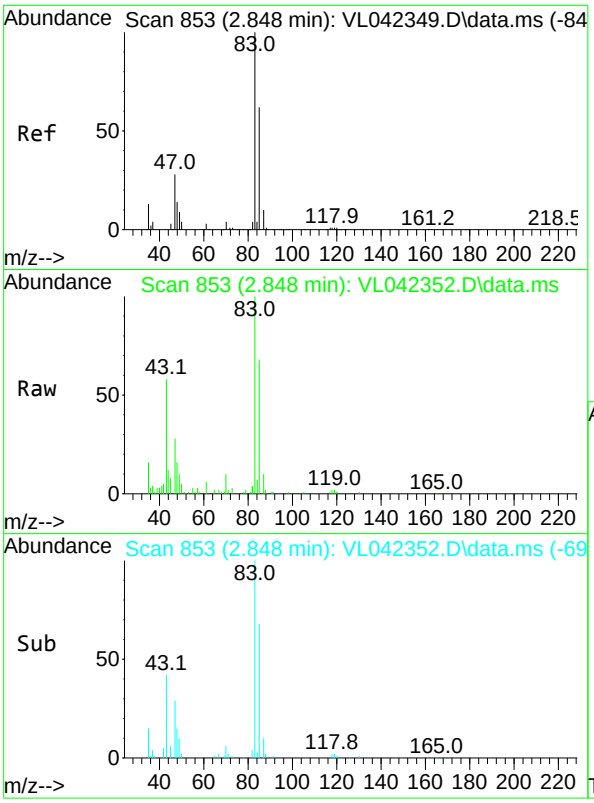


#28
Methyl tert-Butyl Ether
Concen: 0.530 ppbv
RT: 2.441 min Scan# 727
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 73 Resp: 6833

Ion	Ratio	Lower	Upper
73	100		
57	61.8	21.3	31.9#





#29
Chloroform
Concen: 0.532 ppbv
RT: 2.848 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

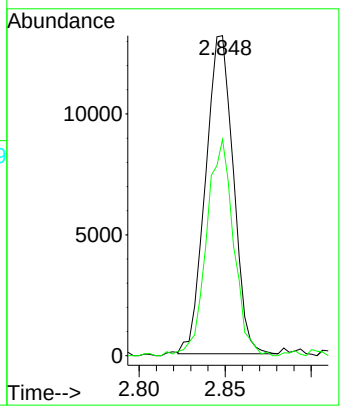
Tgt Ion: 83 Resp: 1481

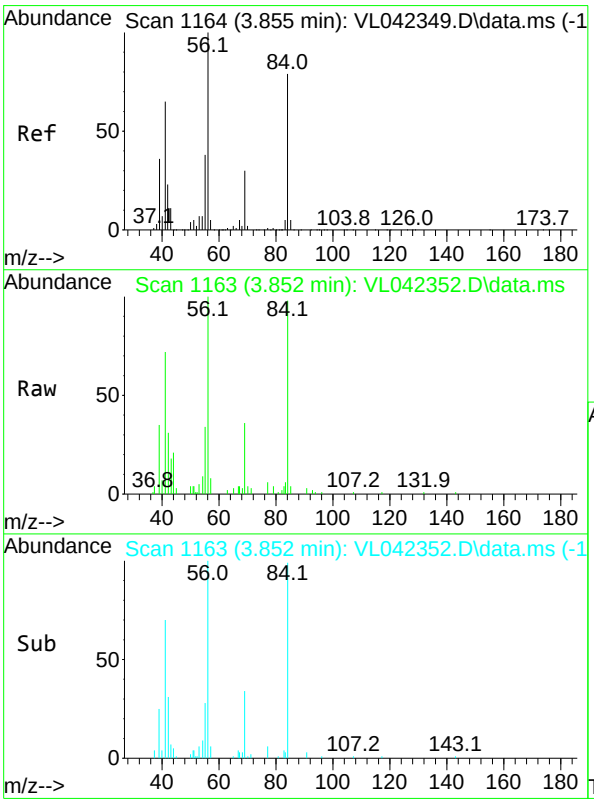
Ion	Ratio	Lower	Upper
83	100		
85	68.0	50.0	75.0

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

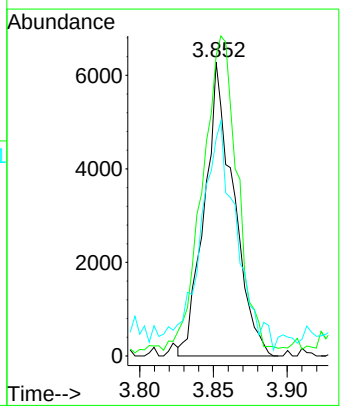


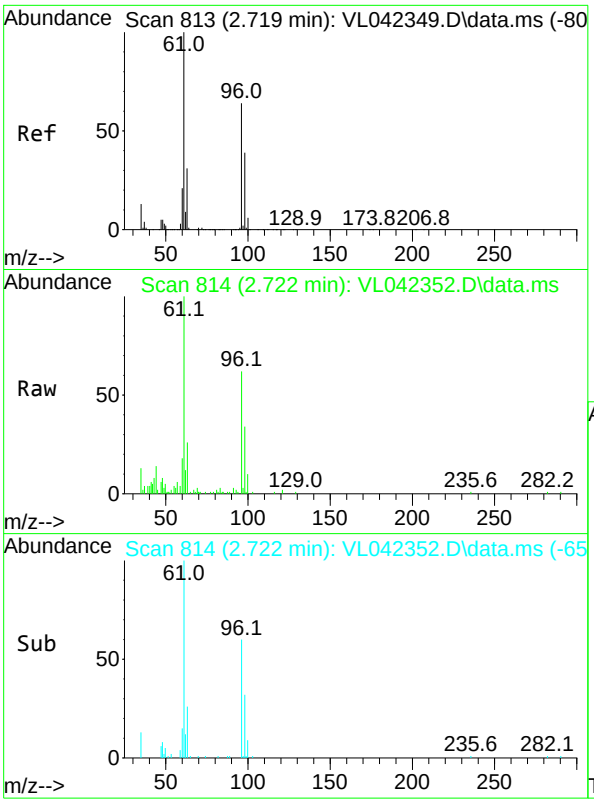


#30
Cyclohexane
Concen: 0.541 ppbv
RT: 3.852 min Scan# 1163
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 84 Resp: 8572

Ion	Ratio	Lower	Upper
84	100		
56	132.8	101.0	151.4
41	89.8	67.4	101.0

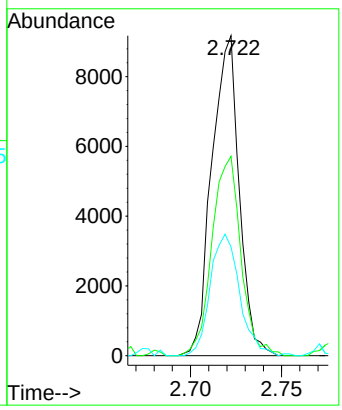




#31
cis-1,2-Dichloroethene
Concen: 0.511 ppbv
RT: 2.722 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 61 Resp: 957

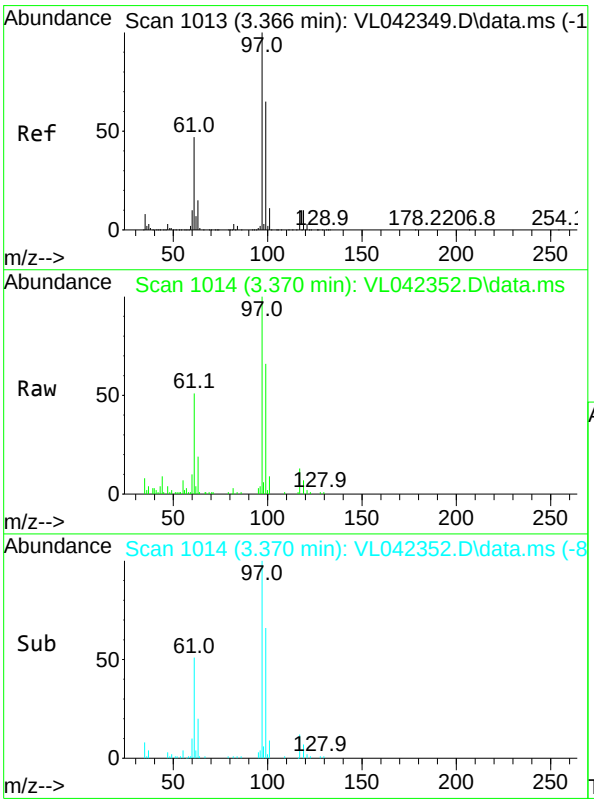
Ion	Ratio	Lower	Upper
61	100		
96	62.3	50.8	76.2
98	34.0	30.9	46.3



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

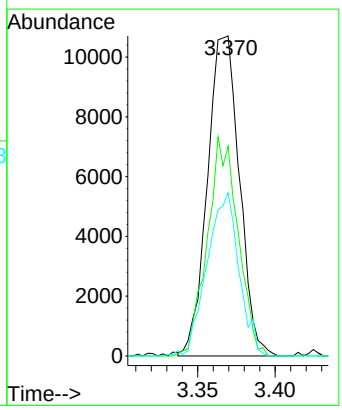
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

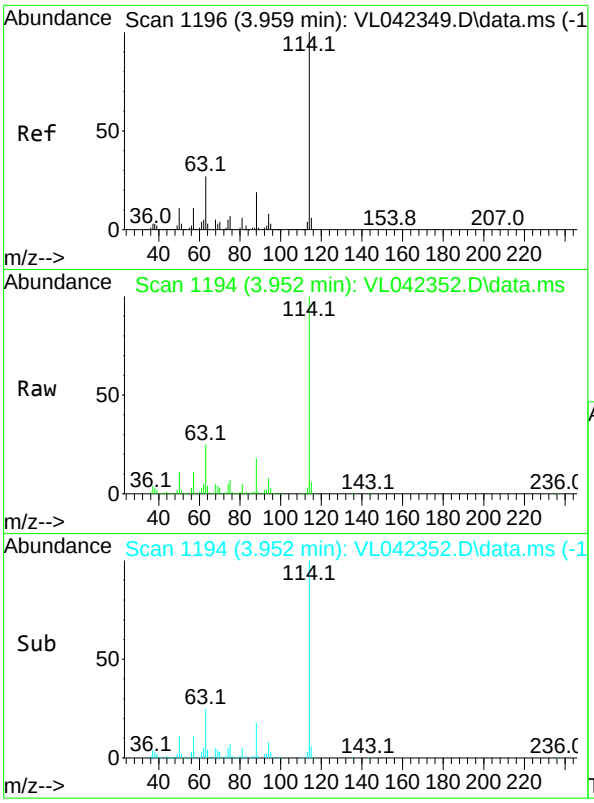


#32
1,1,1-Trichloroethane
Concen: 0.516 ppbv
RT: 3.370 min Scan# 1014
Delta R.T. 0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 97 Resp: 15413

Ion	Ratio	Lower	Upper
97	100		
99	65.6	51.0	76.4
61	50.8	38.8	58.2

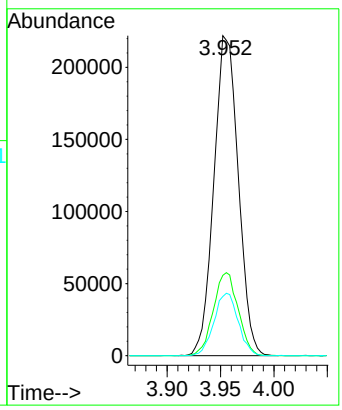




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.952 min Scan# 1
Delta R.T. -0.006 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion:114 Resp: 35313

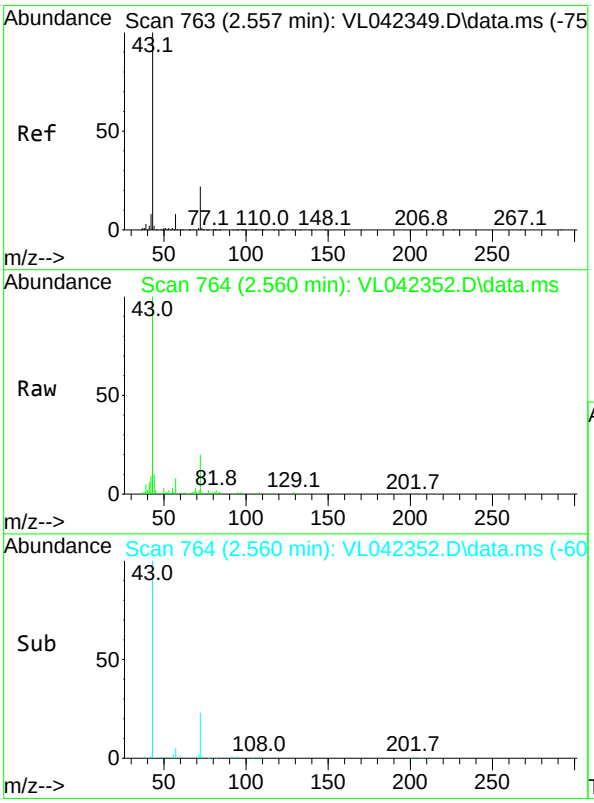
Ion	Ratio	Lower	Upper
114	100		
63	26.3	21.8	32.6
88	19.4	15.5	23.3



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

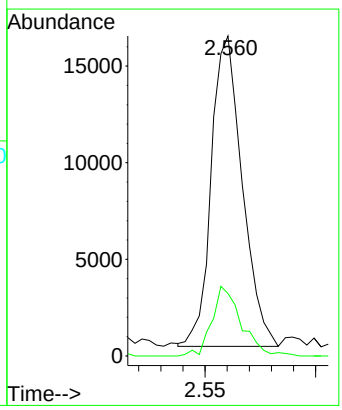
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

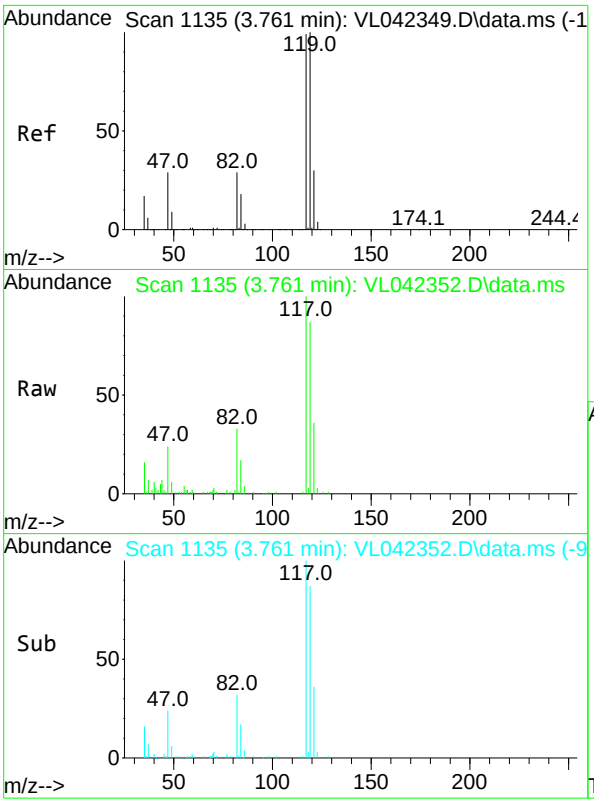


#34
2-Butanone
Concen: 0.560 ppbv
RT: 2.560 min Scan# 764
Delta R.T. 0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 43 Resp: 15640

Ion	Ratio	Lower	Upper
43	100		
72	21.3	18.2	27.2

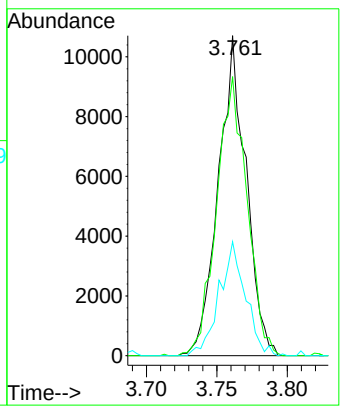




#35
Carbon Tetrachloride
Concen: 0.459 ppbv
RT: 3.761 min Scan# 1
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion:117 Resp: 1468

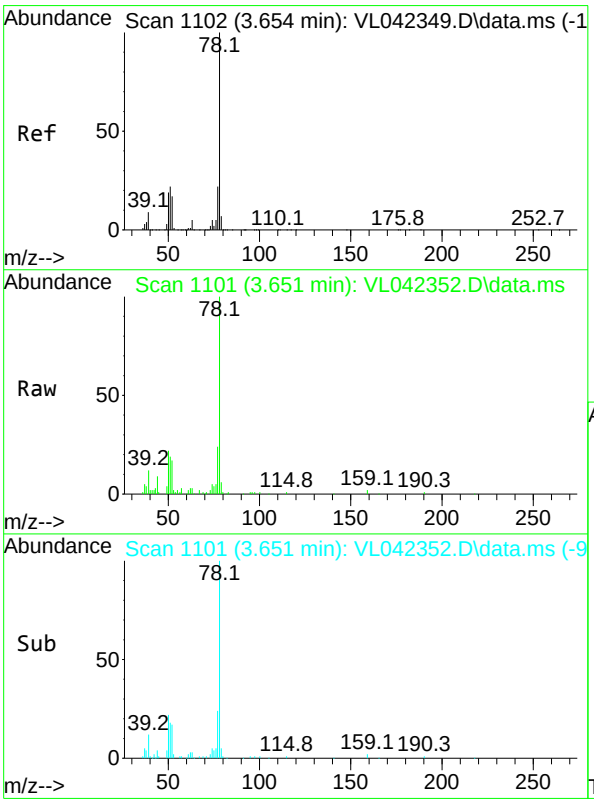
Ion	Ratio	Lower	Upper
117	100		
119	87.2	80.5	120.7
121	35.6	24.2	36.2



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

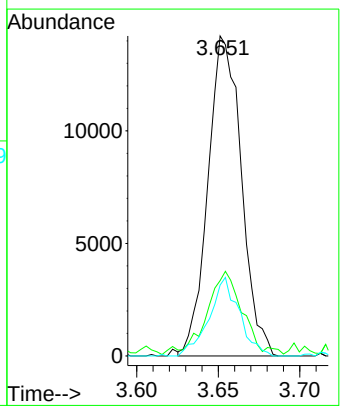
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

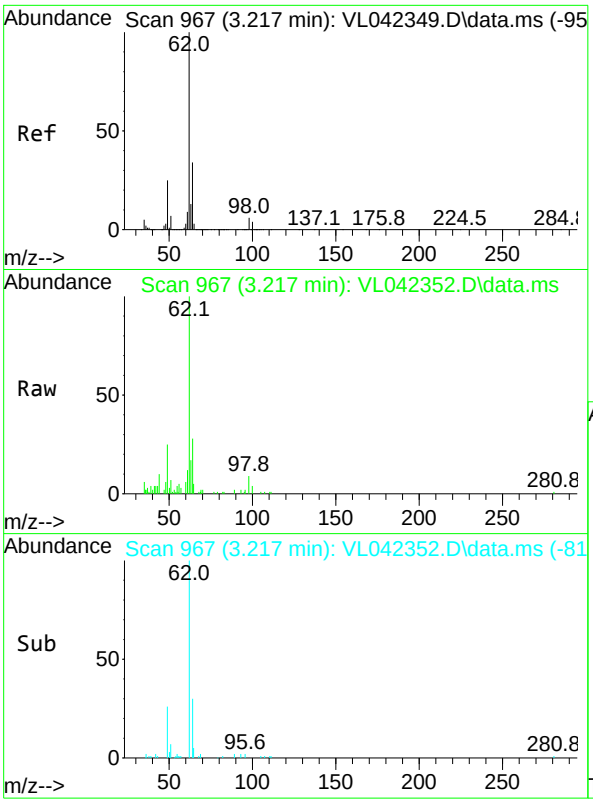


#36
Benzene
Concen: 0.531 ppbv
RT: 3.651 min Scan# 1101
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 78 Resp: 20233

Ion	Ratio	Lower	Upper
78	100		
77	21.7	17.4	26.0
50	22.1	15.5	23.3

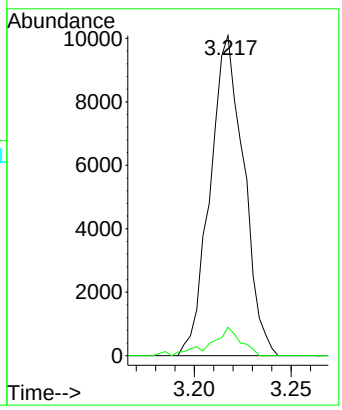




#37
1,2-Dichloroethane
Concen: 0.533 ppbv
RT: 3.217 min Scan# 9
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 62 Resp: 1219

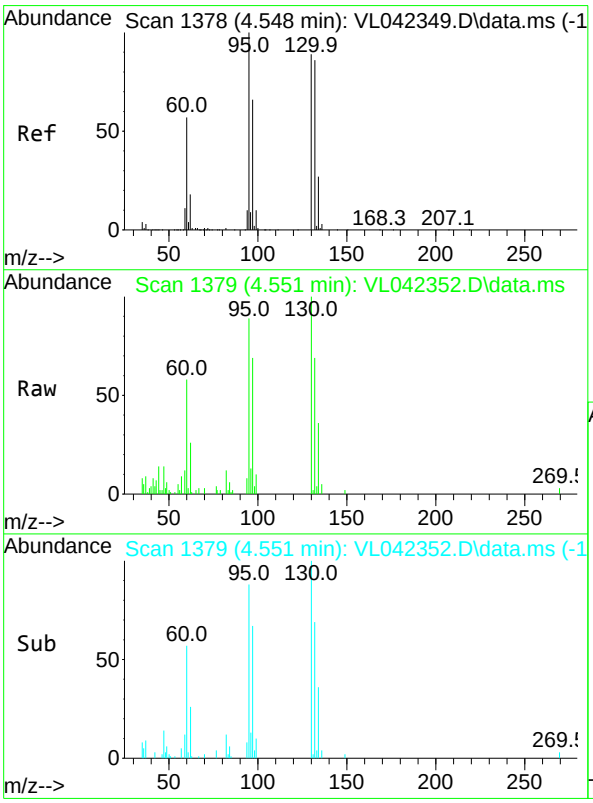
Ion	Ratio	Lower	Upper
62	100		
98	8.1	5.1	7.7#



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

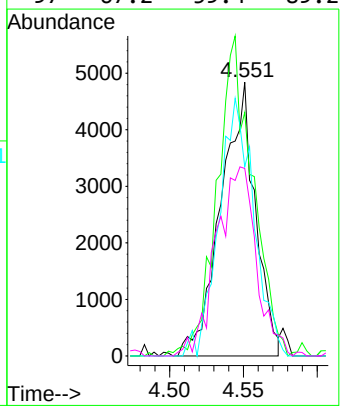
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

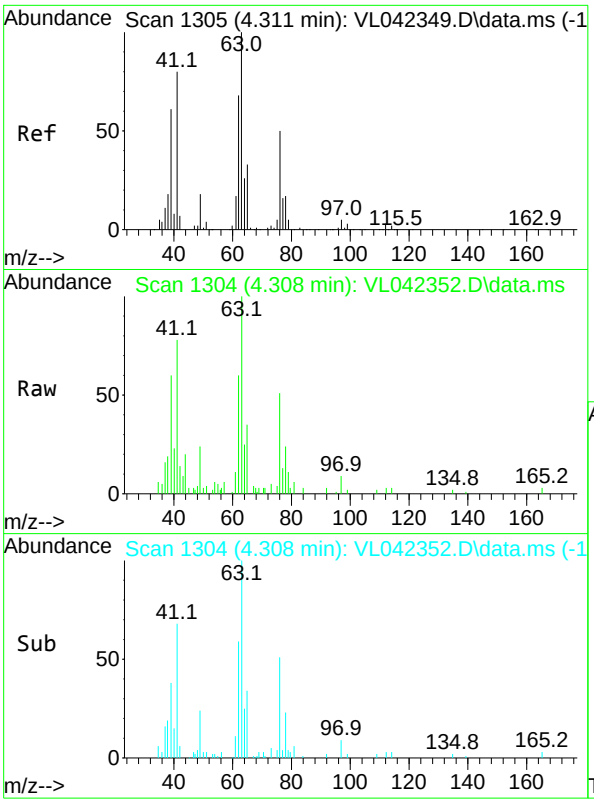


#38
Trichloroethene
Concen: 0.468 ppbv
RT: 4.551 min Scan# 1379
Delta R.T. 0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion:130 Resp: 7819

Ion	Ratio	Lower	Upper
130	100		
95	86.2	89.8	134.6#
132	69.1	77.7	116.5#
97	67.2	59.4	89.2

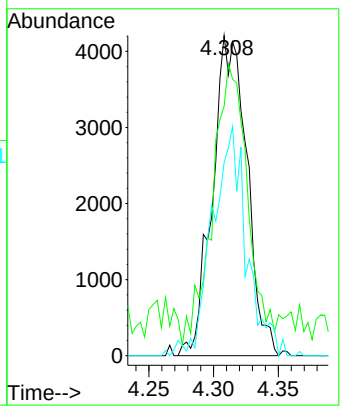




#39
1,2-Dichloropropane
Concen: 0.548 ppbv m
RT: 4.308 min Scan# 1
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 63 Resp: 779

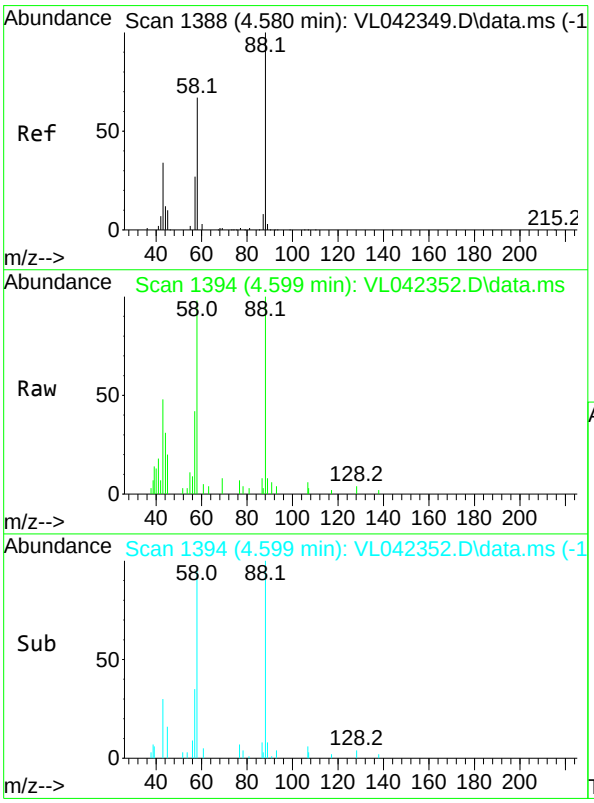
Ion	Ratio	Lower	Upper
63	100		
41	78.0	64.2	96.2
62	60.4	54.3	81.5



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

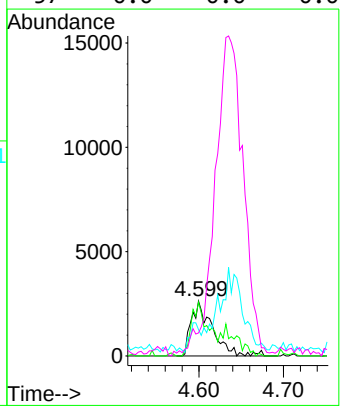
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

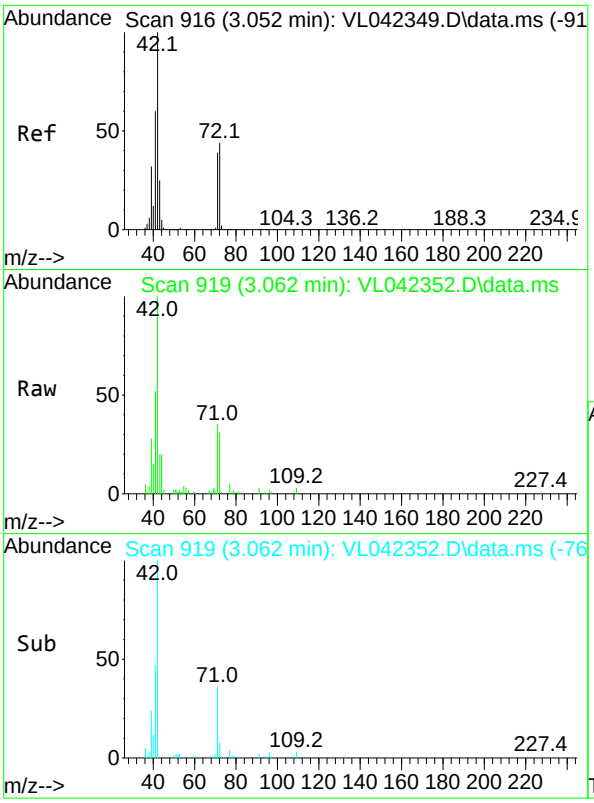


#40
1,4-Dioxane
Concen: 0.603 ppbv m
RT: 4.599 min Scan# 1394
Delta R.T. 0.019 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 88 Resp: 4637

Ion	Ratio	Lower	Upper
88	100		
58	118.1	61.4	92.0#
43	0.0	23.2	34.8#
57	0.0	0.0	0.0

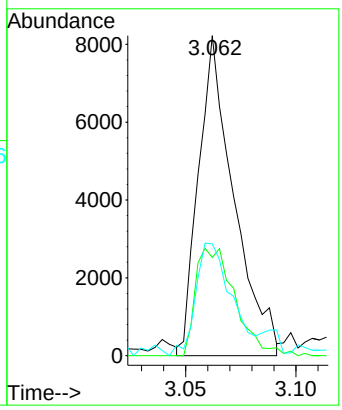




#41
Tetrahydrofuran
Concen: 0.567 ppbv m
RT: 3.062 min Scan# 91
Delta R.T. 0.010 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 42 Resp: 9144

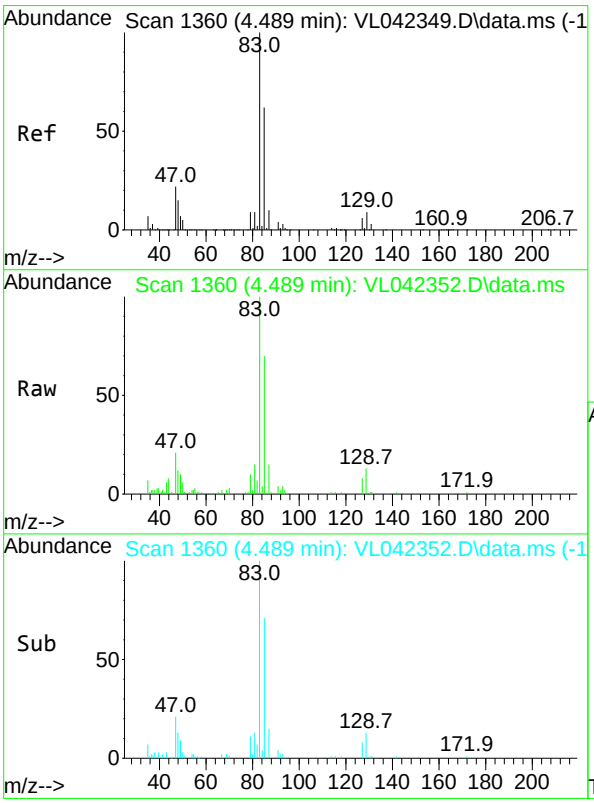
Ion	Ratio	Lower	Upper
42	100		
72	37.7	32.3	48.5
71	43.1	31.4	47.2



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

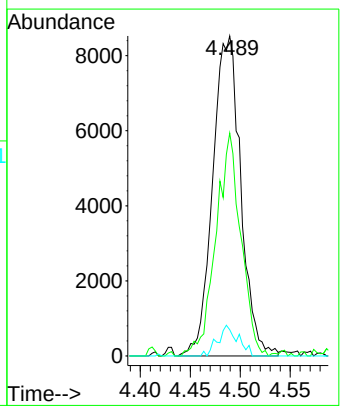
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

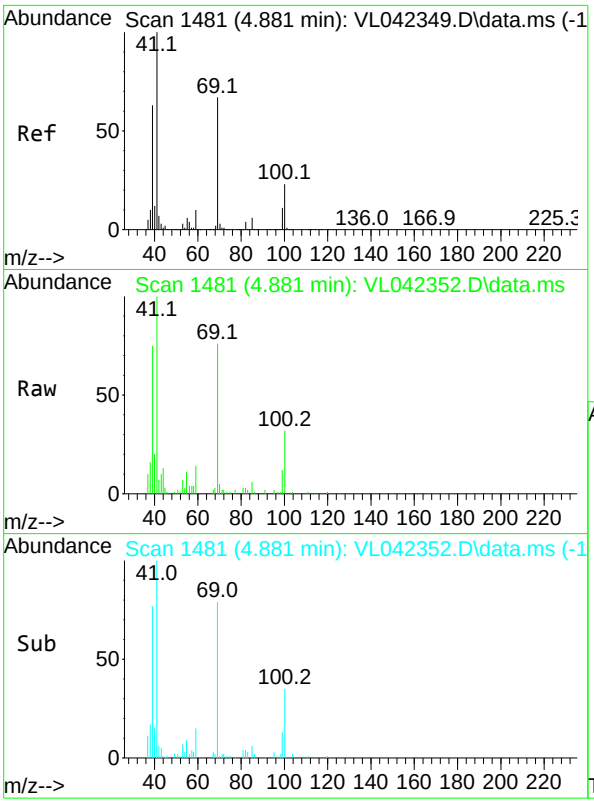


#42
Bromodichloromethane
Concen: 0.523 ppbv
RT: 4.489 min Scan# 1360
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 83 Resp: 16642

Ion	Ratio	Lower	Upper
83	100		
85	69.6	49.7	74.5
127	8.2	5.1	7.7#

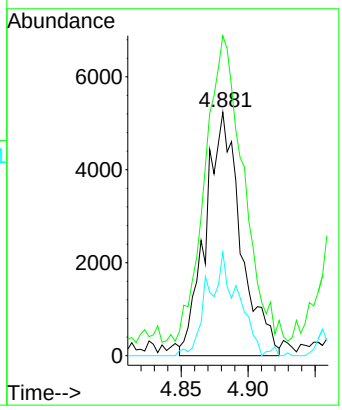




#43
Methyl Methacrylate
Concen: 0.563 ppbv m
RT: 4.881 min Scan# 14
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 69 Resp: 962(

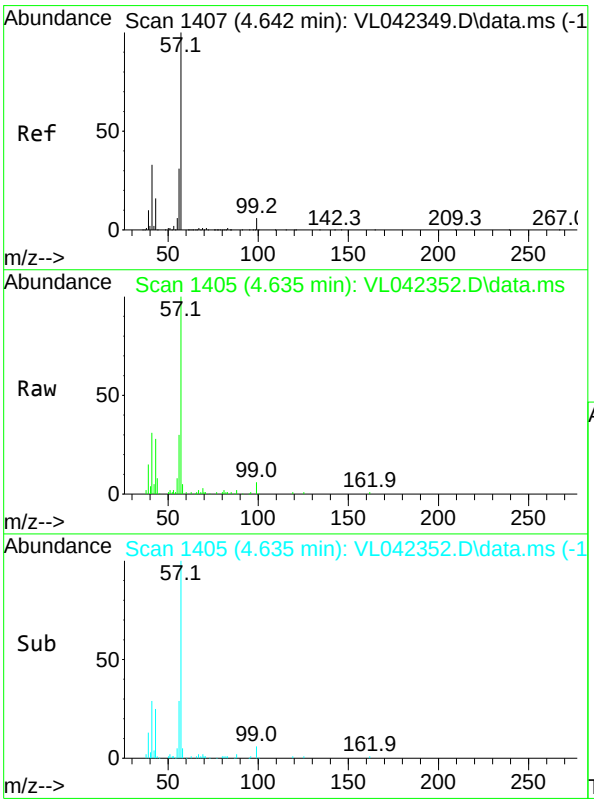
Ion	Ratio	Lower	Upper
69	100		
41	0.0	118.6	177.8#
100	0.0	28.2	42.2#



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

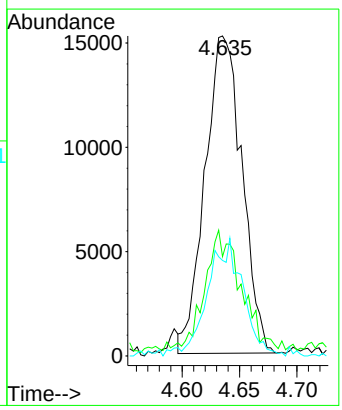
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

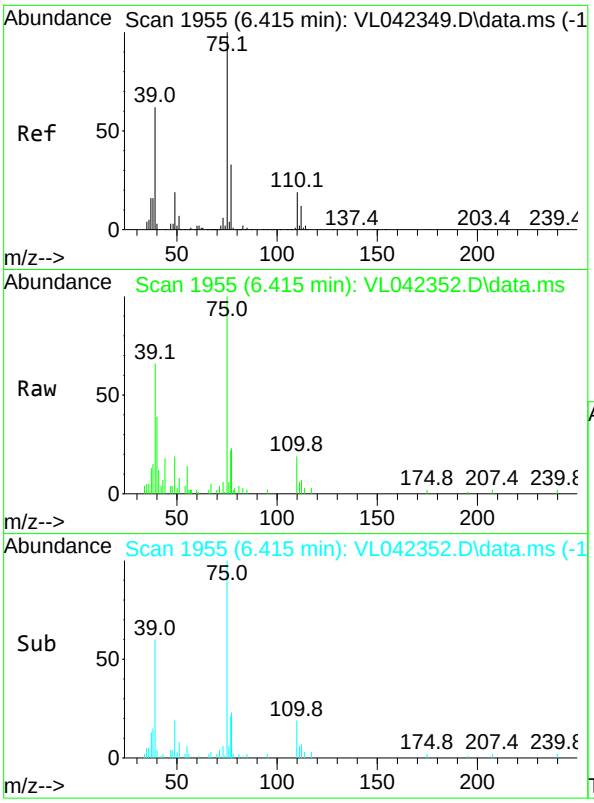


#44
2,2,4-Trimethylpentane
Concen: 0.519 ppbv
RT: 4.635 min Scan# 1405
Delta R.T. -0.006 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 57 Resp: 34170

Ion	Ratio	Lower	Upper
57	100		
41	39.1	27.2	40.8
56	37.1	25.7	38.5





#45
t-1,3-Dichloropropene
Concen: 0.517 ppbv m
RT: 6.415 min Scan# 1
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

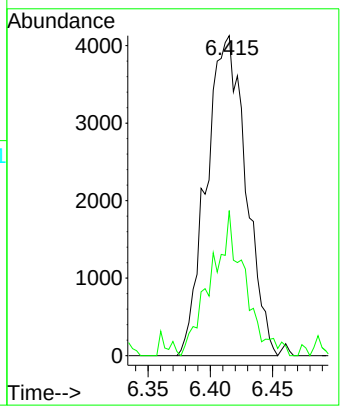
Tgt Ion: 75 Resp: 907

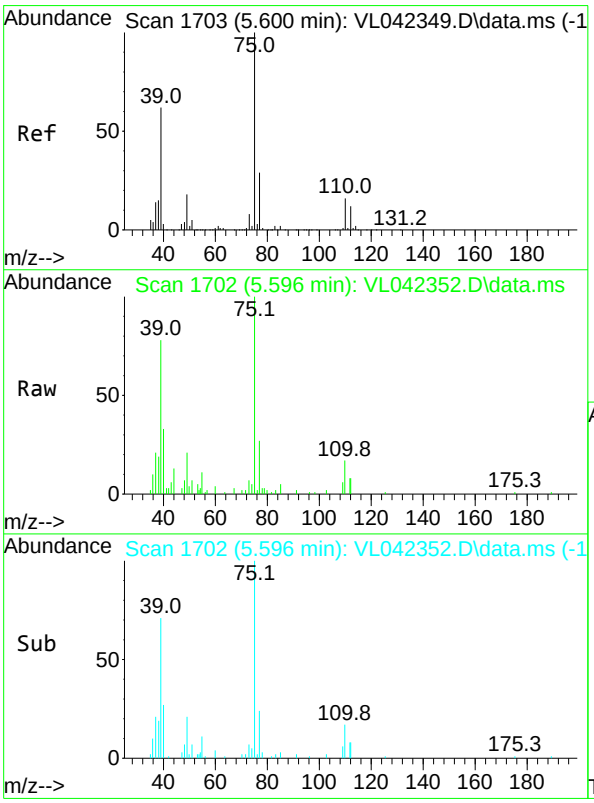
Ion	Ratio	Lower	Upper
75	100		
77	23.1	27.0	40.6#

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

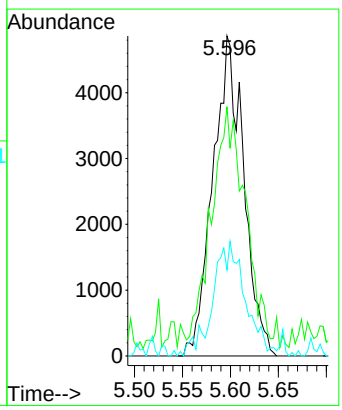


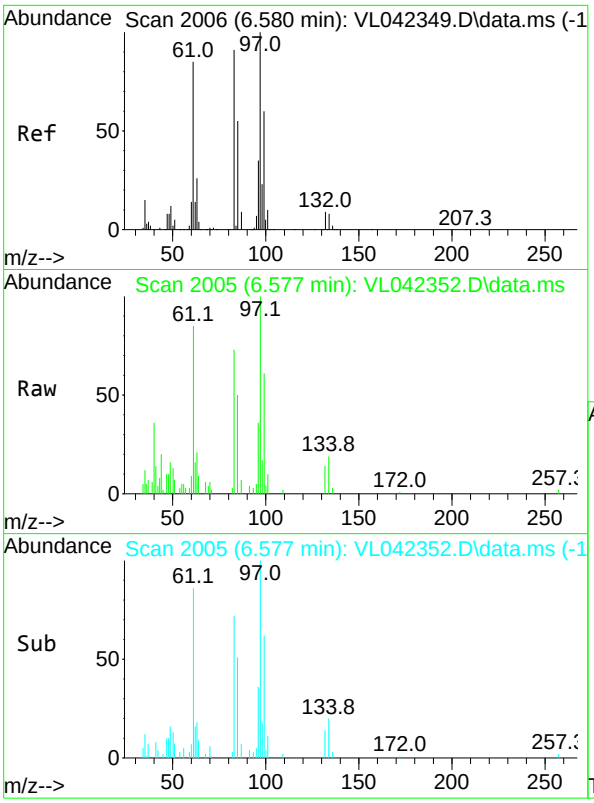


#46
cis-1,3-Dichloropropene
Concen: 0.505 ppbv m
RT: 5.596 min Scan# 1702
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 75 Resp: 10827

Ion	Ratio	Lower	Upper
75	100		
39	77.9	50.0	75.0#
77	26.9	23.0	34.6

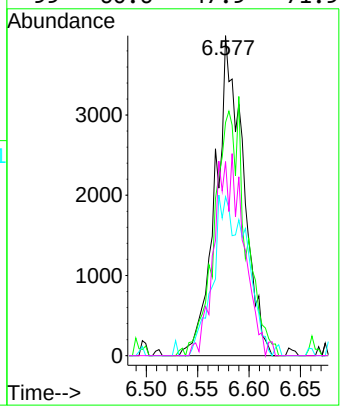




#47
1,1,2-Trichloroethane
Concen: 0.516 ppbv m
RT: 6.577 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 97 Resp: 746

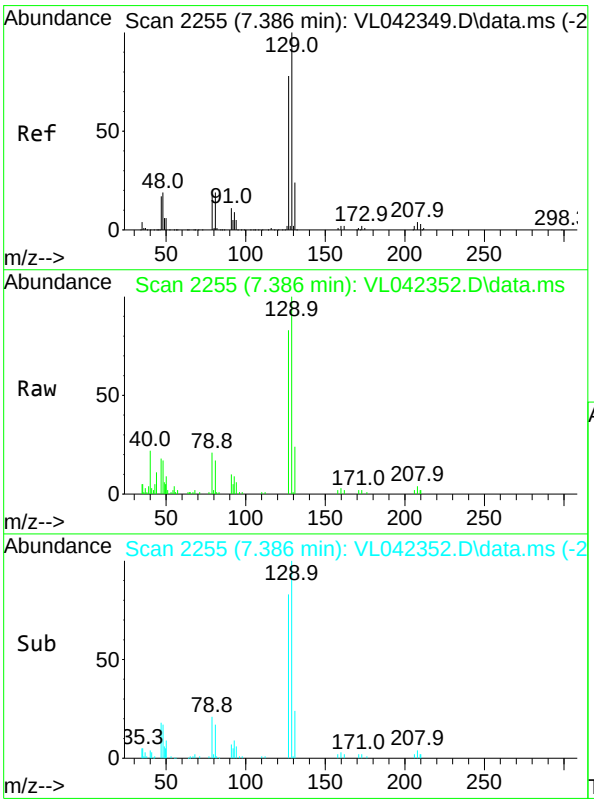
Ion	Ratio	Lower	Upper
97	100		
83	72.9	72.8	109.2
85	49.6	44.2	66.4
99	60.6	47.9	71.9



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

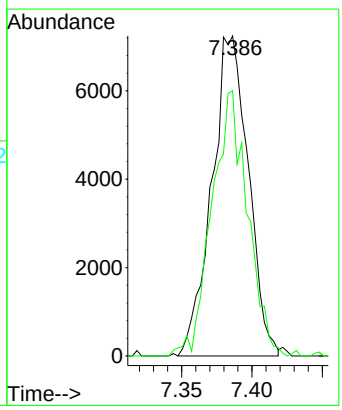
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

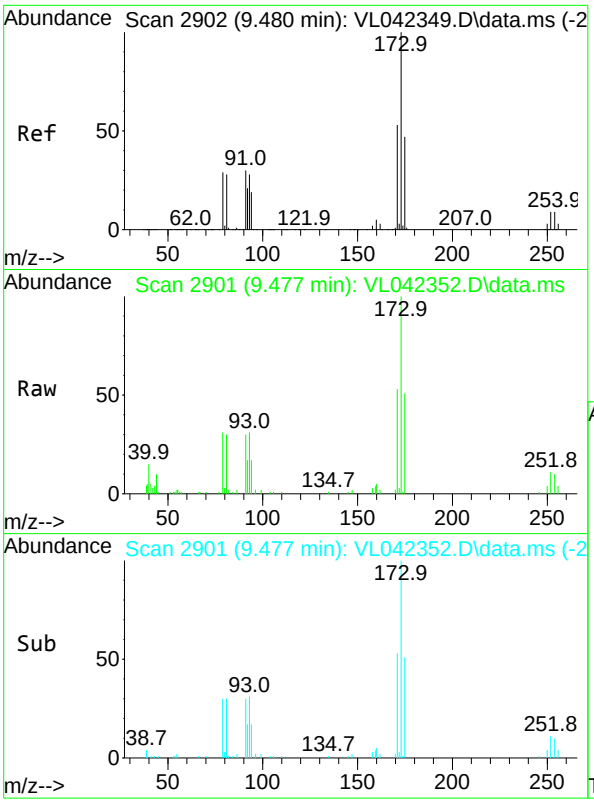


#48
Dibromochloromethane
Concen: 0.514 ppbv
RT: 7.386 min Scan# 2255
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion:129 Resp: 13122

Ion	Ratio	Lower	Upper
129	100		
127	80.9	39.1	117.3

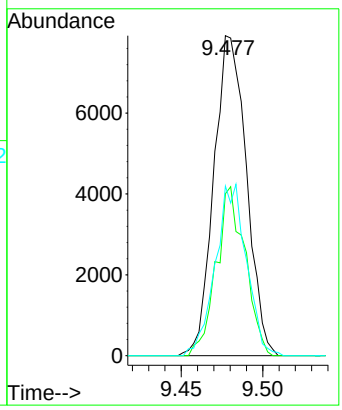




#49
Bromoform
Concen: 0.492 ppbv
RT: 9.477 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion:173 Resp: 1098

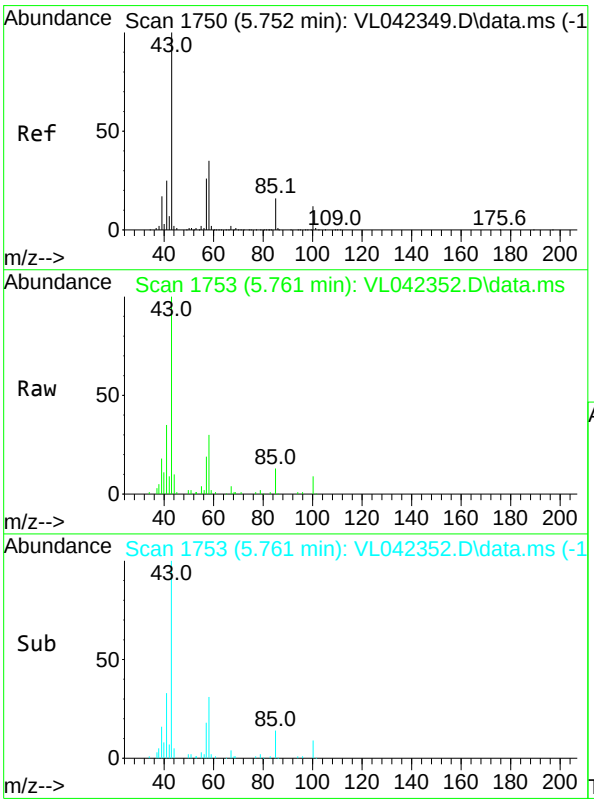
Ion	Ratio	Lower	Upper
173	100		
175	46.8	38.2	57.2
171	51.2	40.9	61.3



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

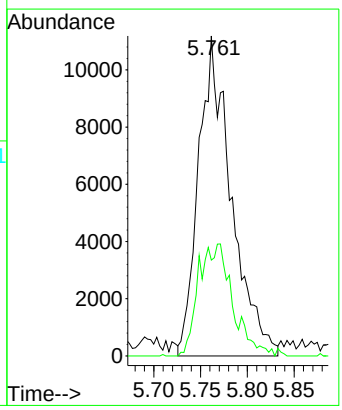
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

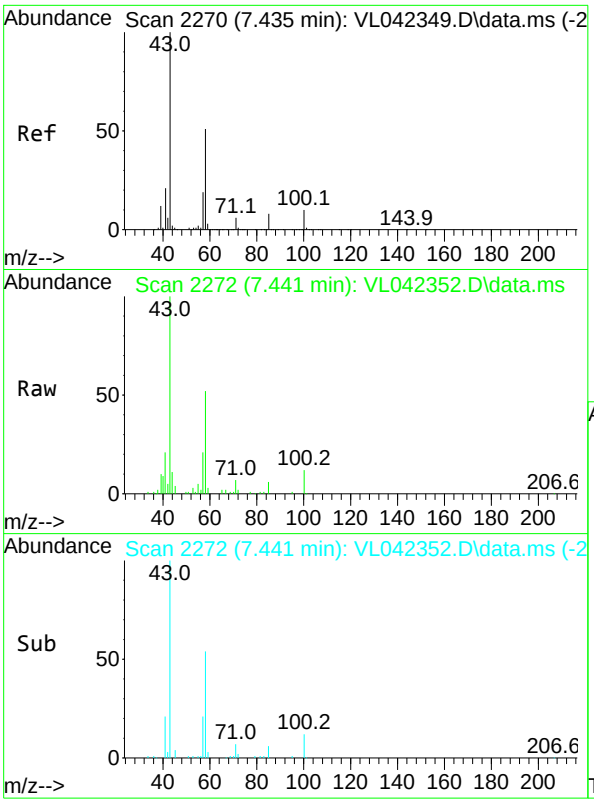


#50
4-Methyl-2-Pentanone
Concen: 0.585 ppbv m
RT: 5.761 min Scan# 1753
Delta R.T. 0.010 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 43 Resp: 27206

Ion	Ratio	Lower	Upper
43	100		
58	0.0	28.6	43.0#

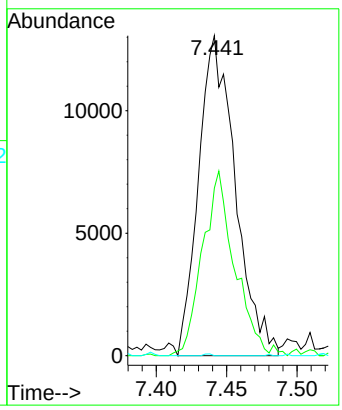




#51
2-Hexanone
Concen: 0.564 ppbv
RT: 7.441 min Scan# 2
Delta R.T. 0.006 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 43 Resp: 2368

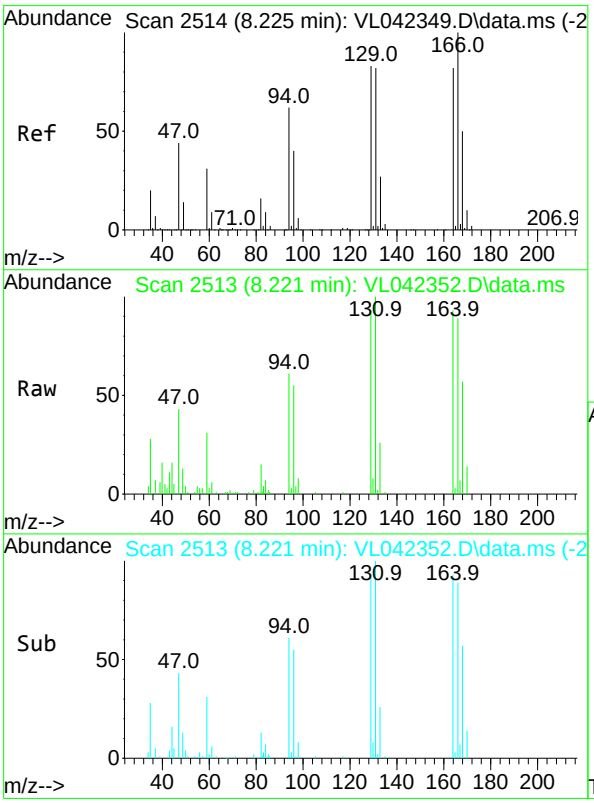
Ion	Ratio	Lower	Upper
43	100		
58	51.7	40.2	60.4
98	0.1	0.1	0.1



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

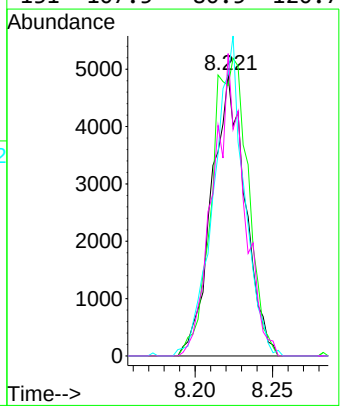
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

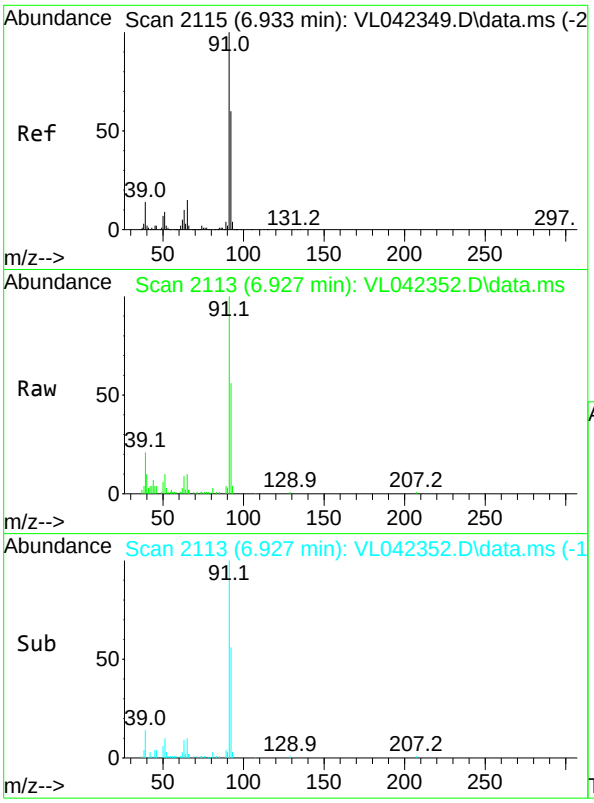


#52
Tetrachloroethene
Concen: 0.503 ppbv
RT: 8.221 min Scan# 2513
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion:164 Resp: 7412

Ion	Ratio	Lower	Upper
164	100		
166	96.1	98.2	147.2#
129	97.8	81.8	122.8
131	107.5	80.5	120.7

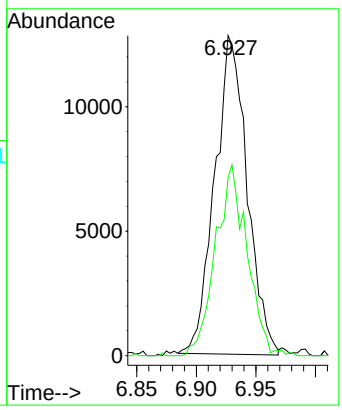




#53
Toluene
Concen: 0.529 ppbv
RT: 6.927 min Scan# 21
Delta R.T. -0.006 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 91 Resp: 2420

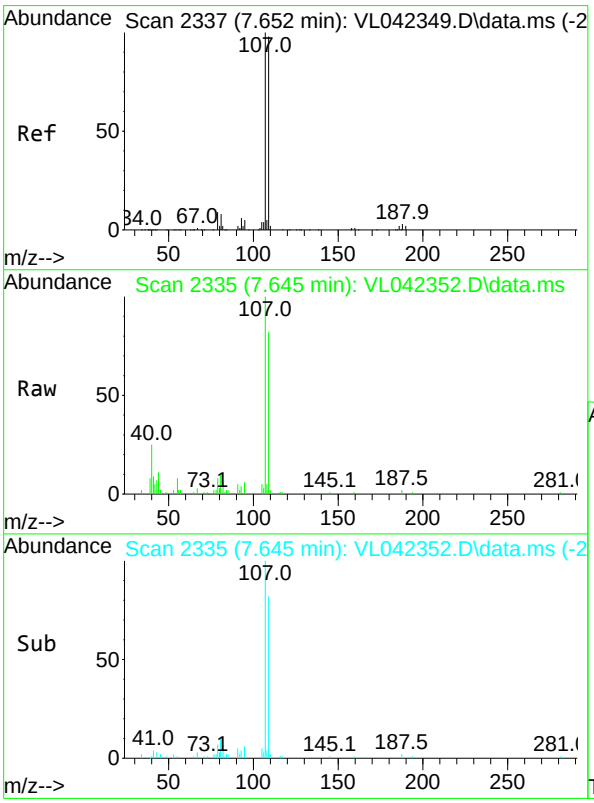
Ion	Ratio	Lower	Upper
91	100		
92	58.4	48.2	72.4



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

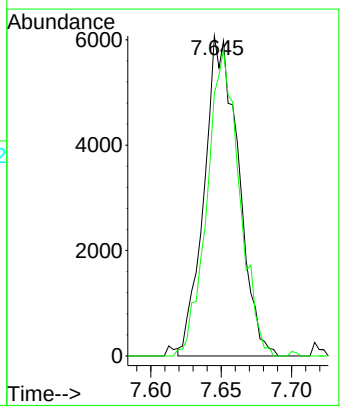
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

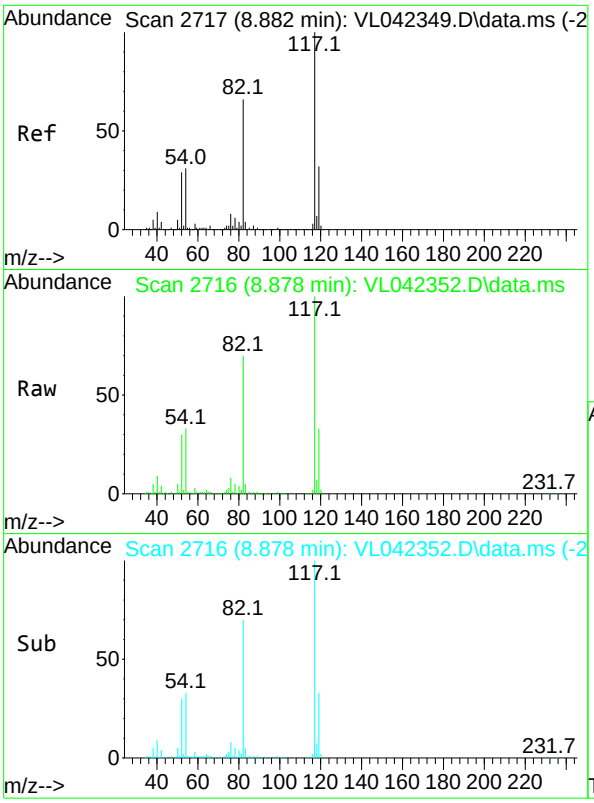


#54
1,2-Dibromoethane
Concen: 0.499 ppbv
RT: 7.645 min Scan# 2335
Delta R.T. -0.006 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion:107 Resp: 10282

Ion	Ratio	Lower	Upper
107	100		
109	82.1	78.2	117.4

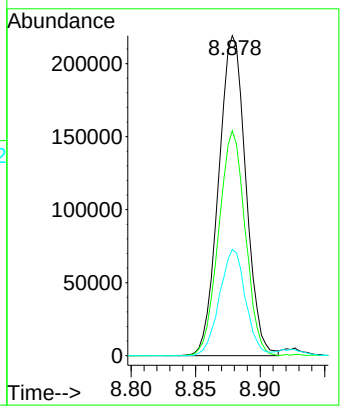




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.878 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion:117 Resp: 32164

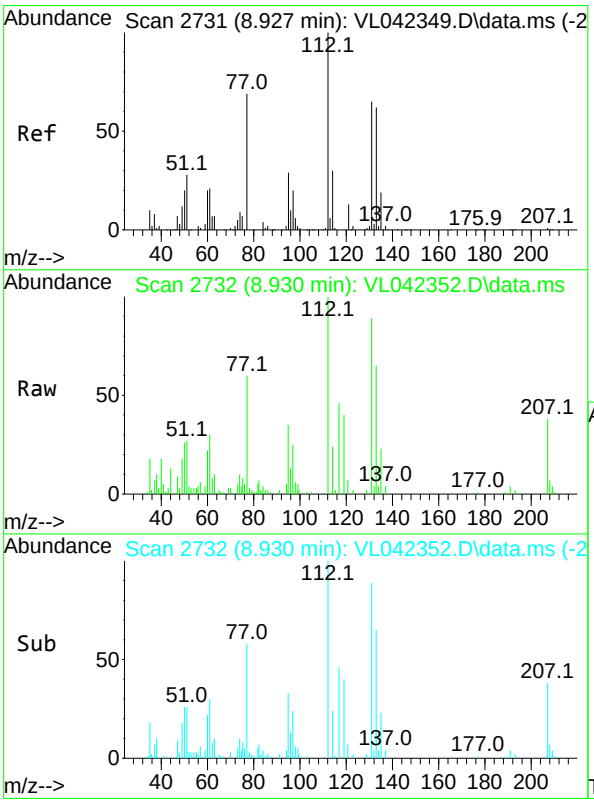
Ion	Ratio	Lower	Upper
117	100		
82	69.0	57.8	86.6
119	33.8	25.2	37.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

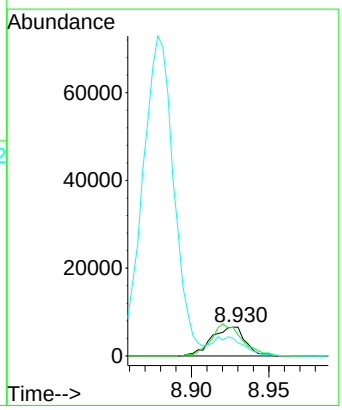
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

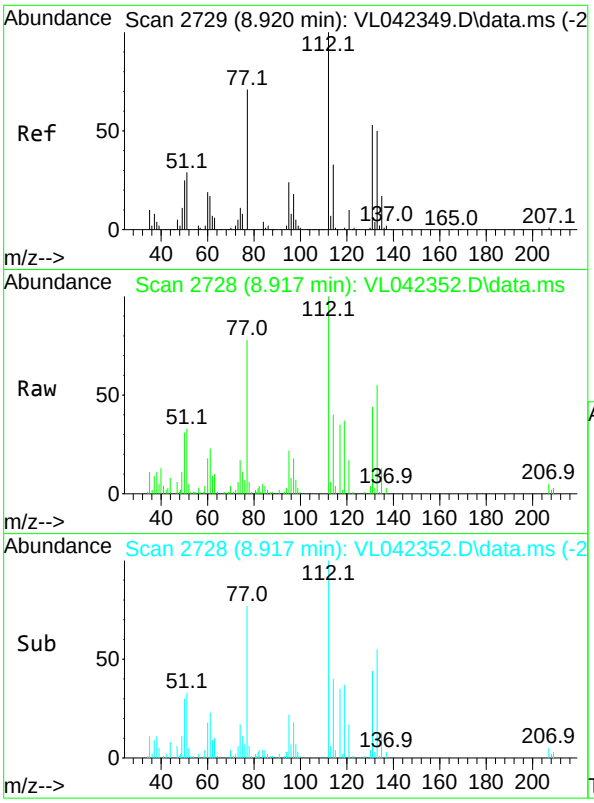


#56
1,1,1,2-Tetrachloroethane
Concen: 0.513 ppbv
RT: 8.930 min Scan# 2732
Delta R.T. 0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion:131 Resp: 9987

Ion	Ratio	Lower	Upper
131	100		
133	102.0	78.3	117.5
119	1087.9	48.7	73.1#

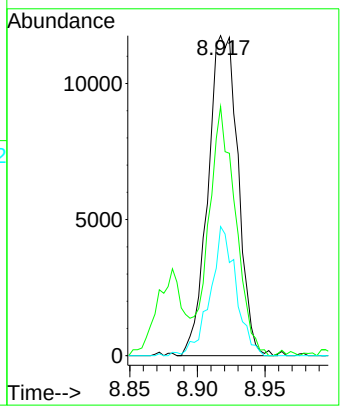




#57
Chlorobenzene
Concen: 0.543 ppbv m
RT: 8.917 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion:112 Resp: 1814

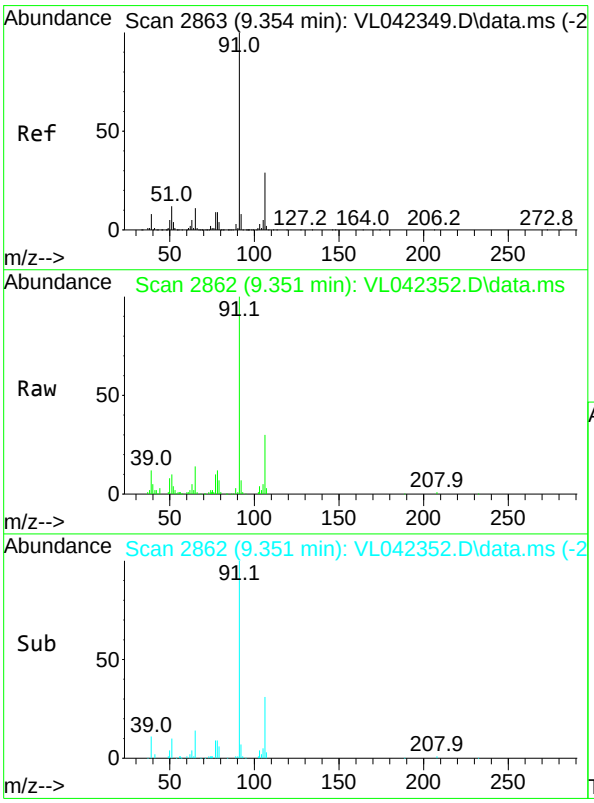
Ion	Ratio	Lower	Upper
112	100		
77	77.8	57.8	86.6
114	40.4	29.3	35.9



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

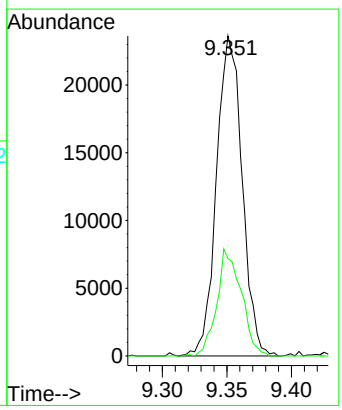
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

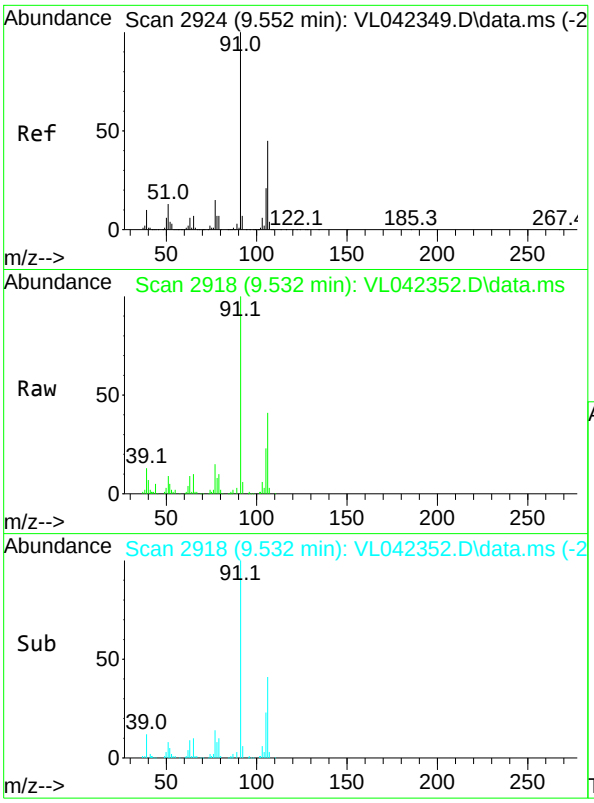


#58
Ethyl Benzene
Concen: 0.512 ppbv
RT: 9.351 min Scan# 2862
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 91 Resp: 32624

Ion	Ratio	Lower	Upper
91	100		
106	30.5	23.0	34.4

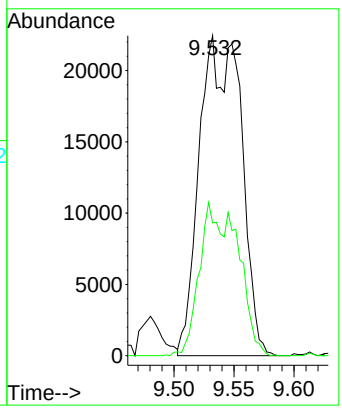




#59
m/p-Xylene
Concen: 1.053 ppbv m
RT: 9.532 min Scan# 2
Delta R.T. -0.019 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 91 Resp: 5419

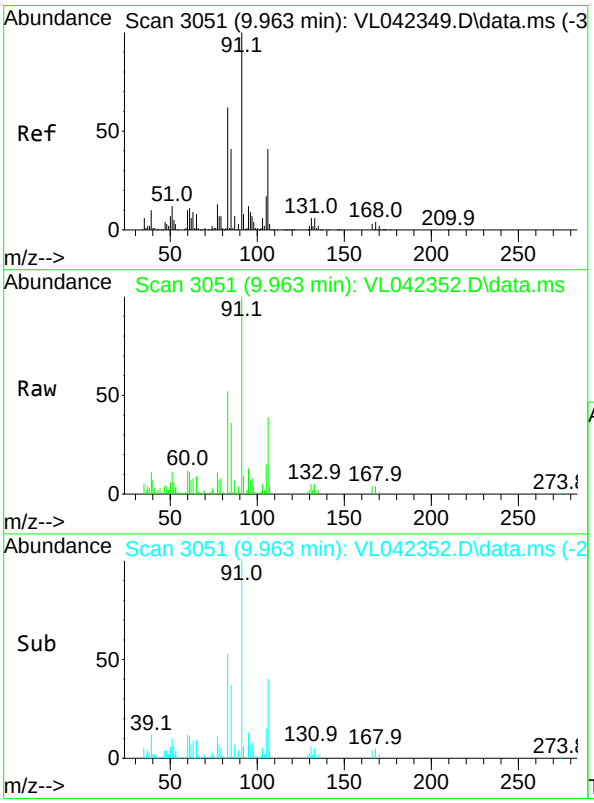
Ion	Ratio	Lower	Upper
91	100		
106	0.0	35.4	53.2



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

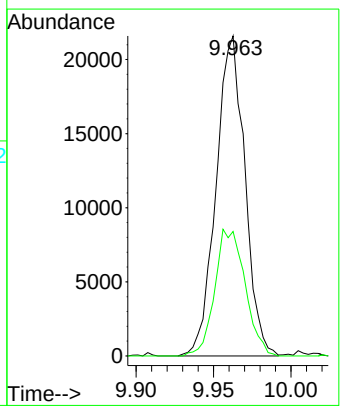
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

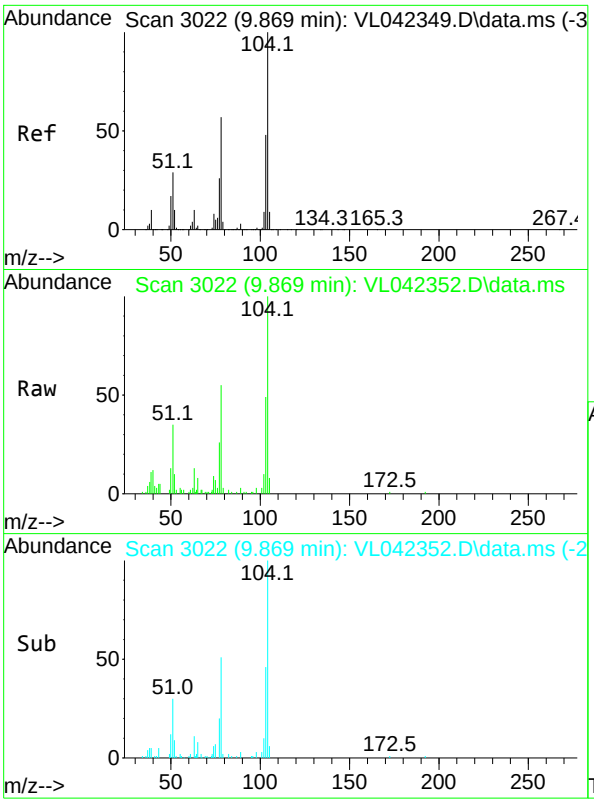


#60
o-Xylene
Concen: 0.541 ppbv
RT: 9.963 min Scan# 3051
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 91 Resp: 27983

Ion	Ratio	Lower	Upper
91	100		
106	41.6	21.1	63.4

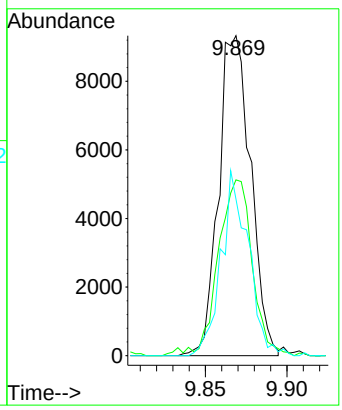




#61
Styrene
Concen: 0.516 ppbv
RT: 9.869 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion:104 Resp: 1273

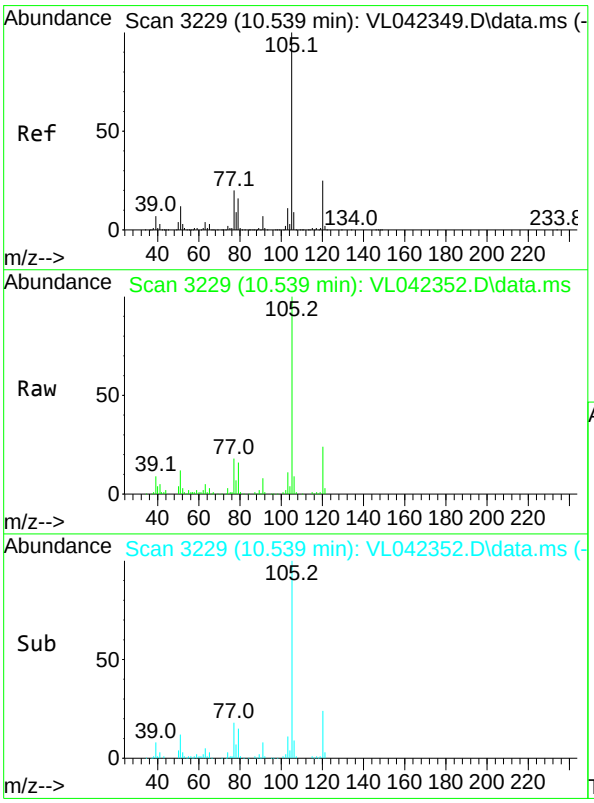
Ion	Ratio	Lower	Upper
104	100		
78	58.6	44.6	66.8
103	49.2	37.4	56.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

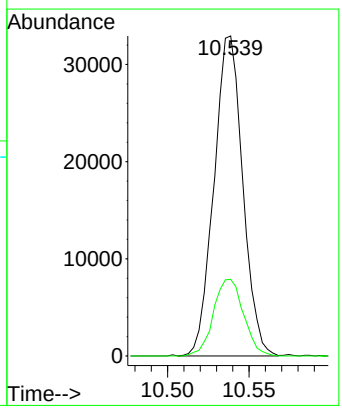
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

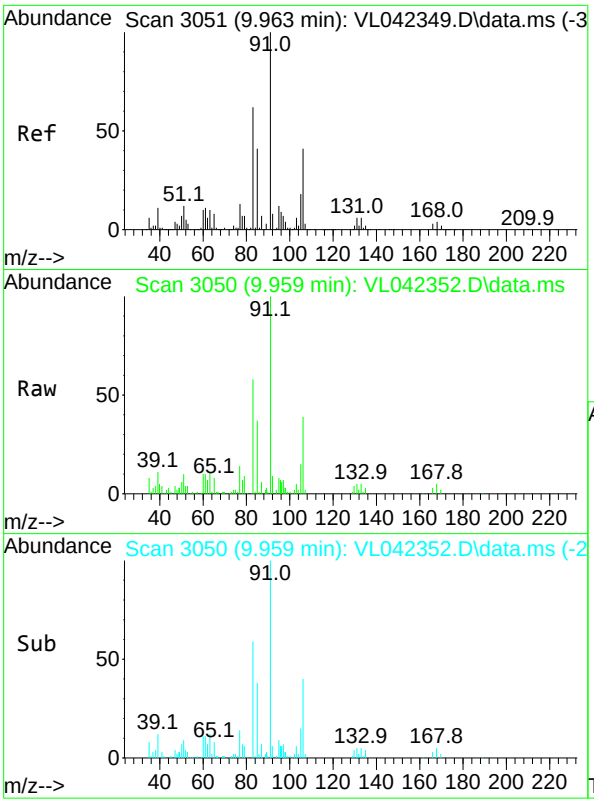


#62
Isopropylbenzene
Concen: 0.533 ppbv
RT: 10.539 min Scan# 3229
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion:105 Resp: 40481

Ion	Ratio	Lower	Upper
105	100		
120	24.9	19.8	29.8





#63
1,1,2,2-Tetrachloroethane
Concen: 0.474 ppbv
RT: 9.959 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

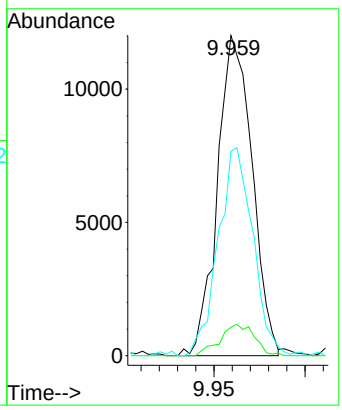
Tgt Ion: 83 Resp: 1592

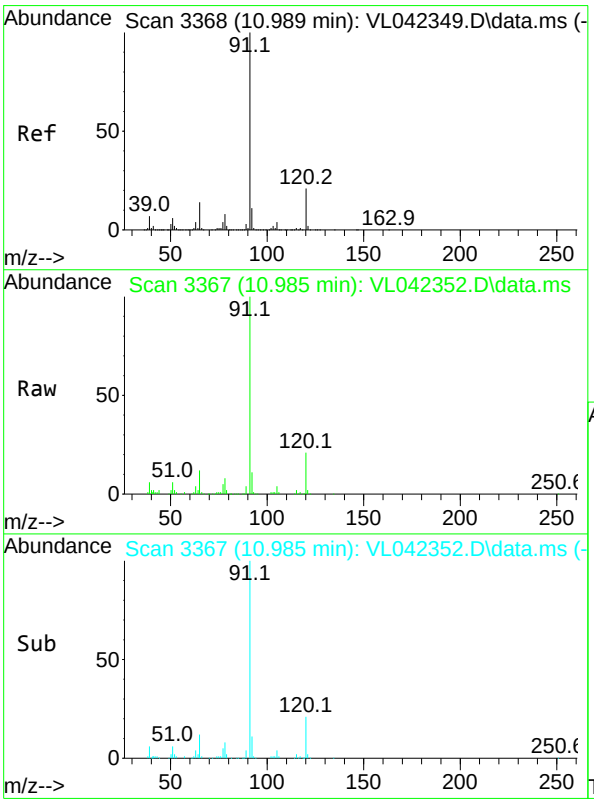
Ion	Ratio	Lower	Upper
83	100		
131	9.8	4.5	13.7
85	65.6	32.4	97.0

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

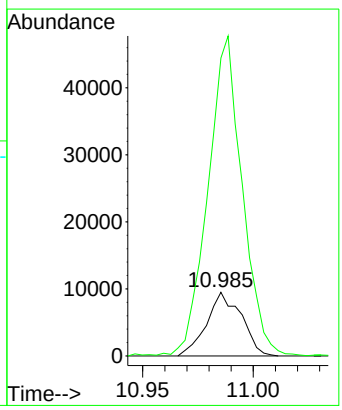


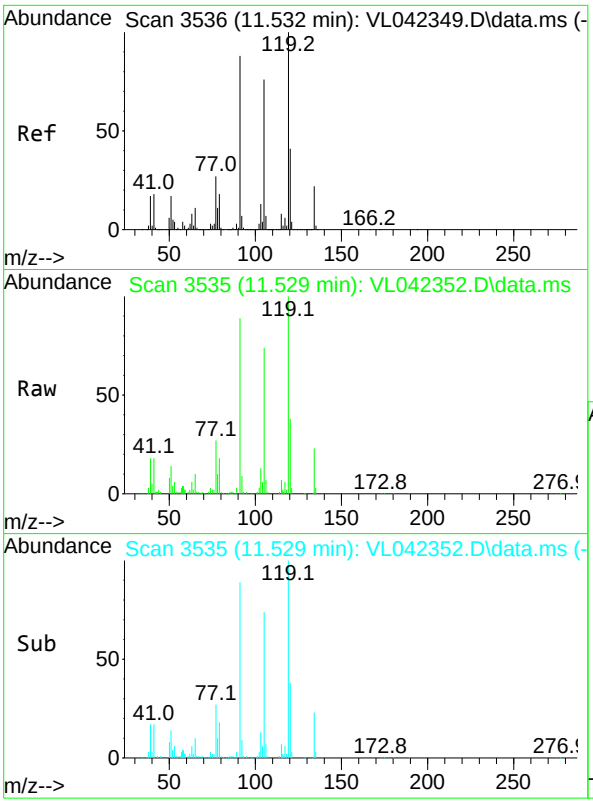


#64
n-propylbenzene
Concen: 0.544 ppbv
RT: 10.985 min Scan# 3367
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion:120 Resp: 10369

Ion	Ratio	Lower	Upper
120	100		
91	499.6	392.4	588.6

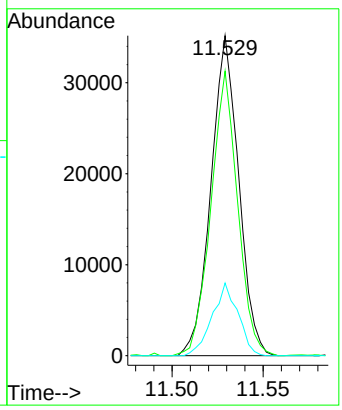




#65
tert-Butylbenzene
Concen: 0.535 ppbv
RT: 11.529 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion:119 Resp: 3729

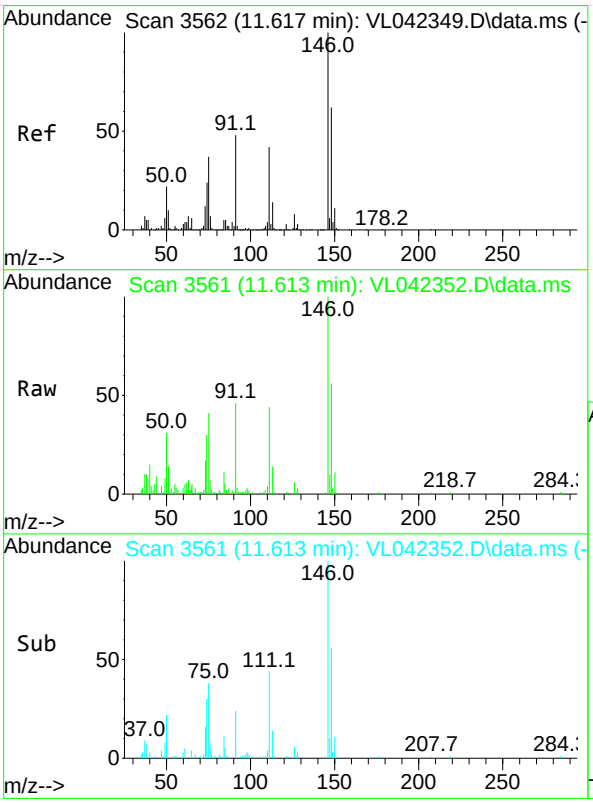
Ion	Ratio	Lower	Upper
119	100		
91	85.8	74.6	111.8
134	21.1	18.8	28.2



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

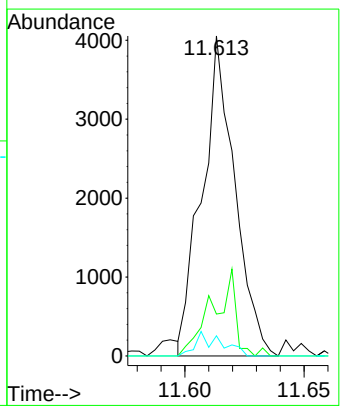
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

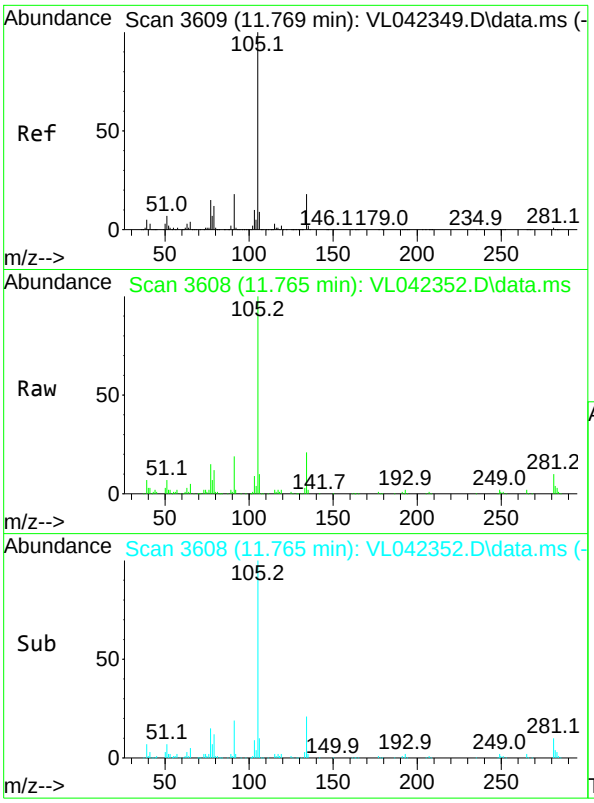


#66
Benzyl Chloride
Concen: 0.506 ppbv
RT: 11.613 min Scan# 3561
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 91 Resp: 3878

Ion	Ratio	Lower	Upper
91	100		
126	19.8	11.8	17.6#
128	5.8	4.5	6.7

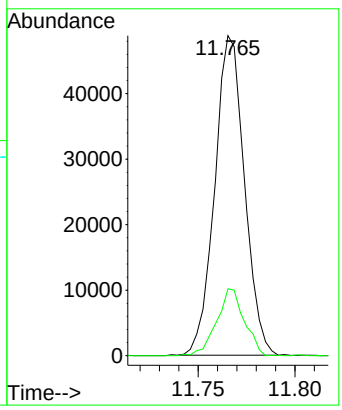




#67
sec-Butylbenzene
Concen: 0.537 ppbv
RT: 11.765 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion:105 Resp: 5213

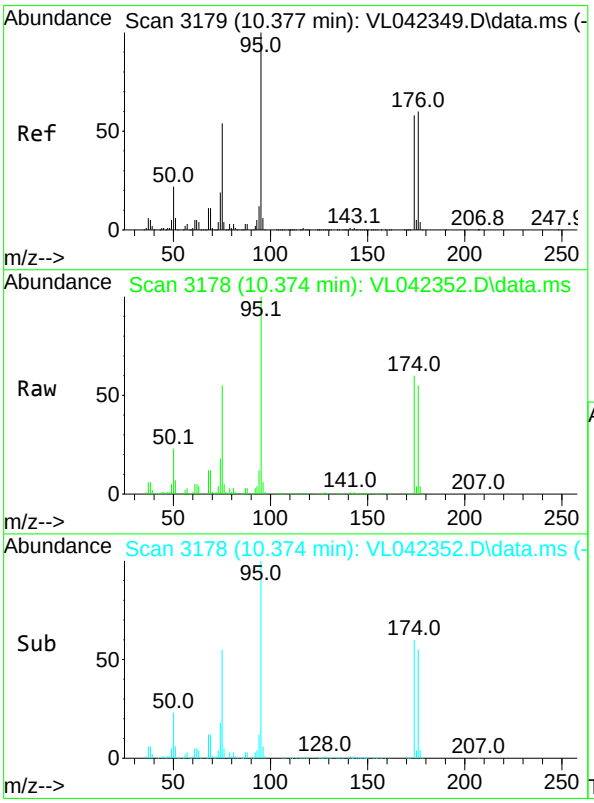
Ion	Ratio	Lower	Upper
105	100		
134	19.5	14.6	21.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

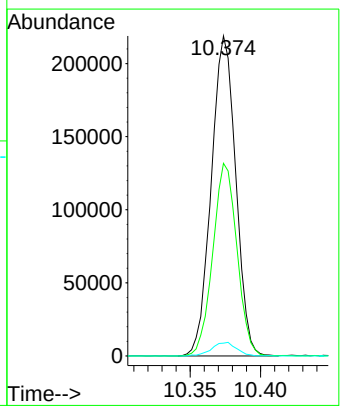
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

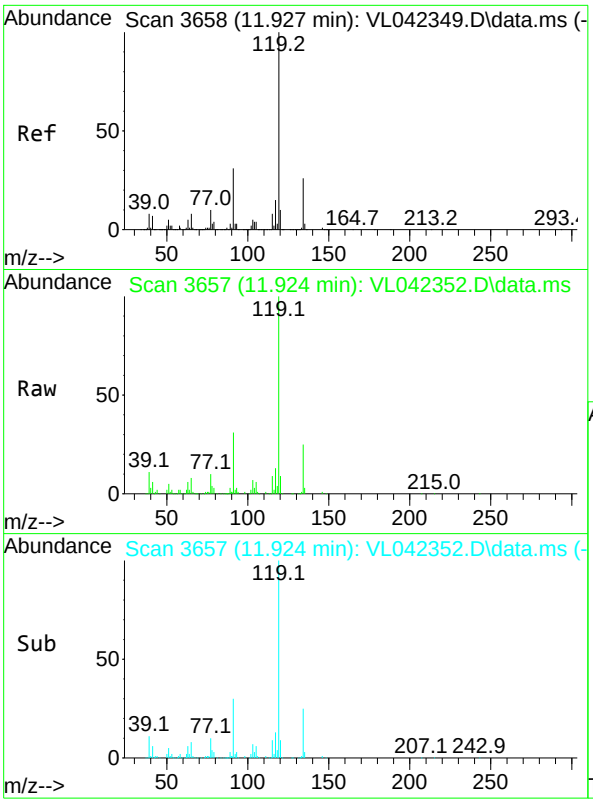


#68
1-Bromo-4-Fluorobenzene
Concen: 10.032 ppbv
RT: 10.374 min Scan# 3178
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 95 Resp: 265161

Ion	Ratio	Lower	Upper
95	100		
174	59.4	48.5	72.7
175	4.3	3.7	5.5

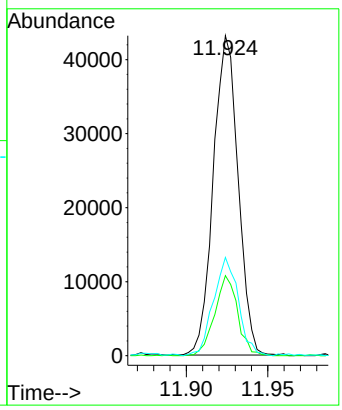




#69
p-Isopropyltoluene
Concen: 0.541 ppbv
RT: 11.924 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion:119 Resp: 4557

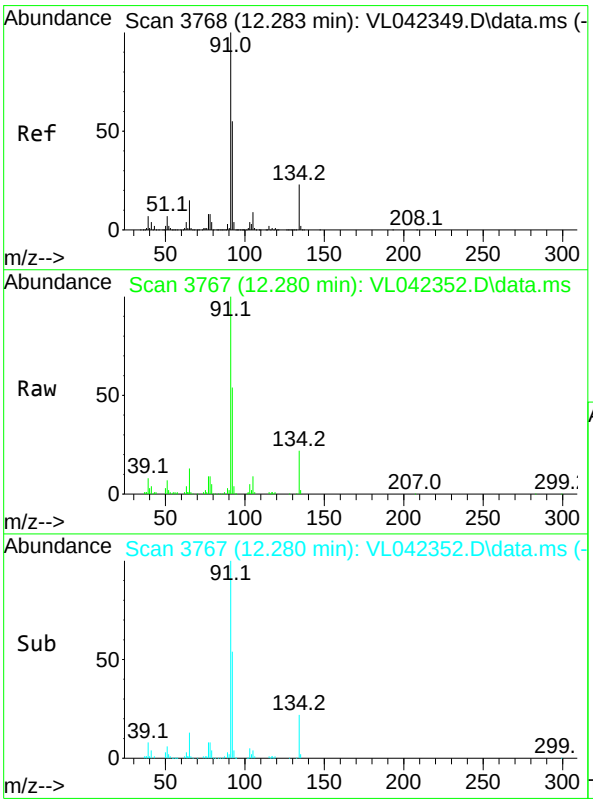
Ion	Ratio	Lower	Upper
119	100		
134	23.3	20.0	30.0
91	31.4	24.4	36.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

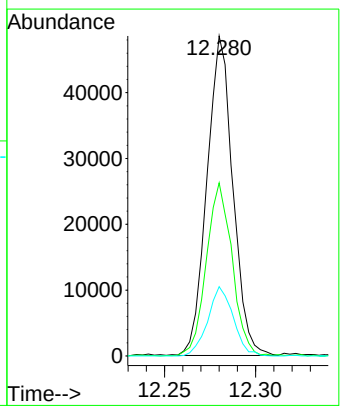
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

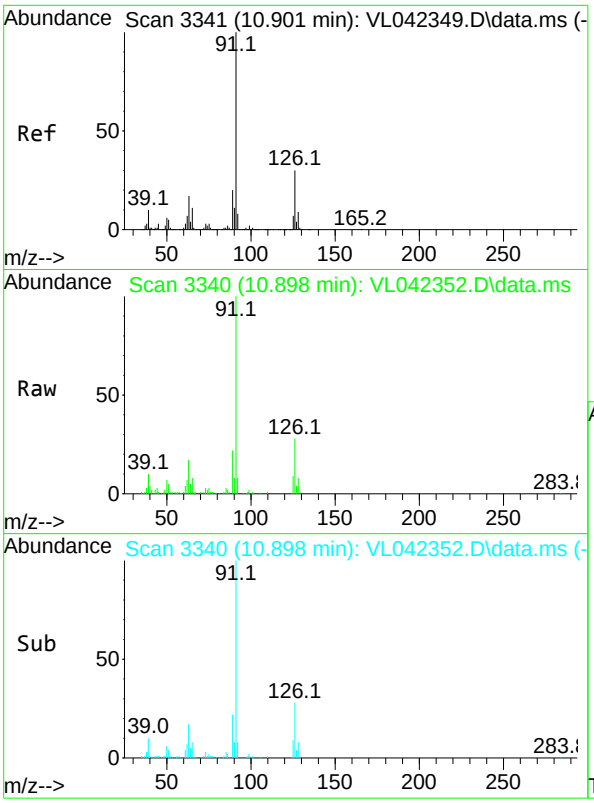


#70
n-Butylbenzene
Concen: 0.547 ppbv
RT: 12.280 min Scan# 3767
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 91 Resp: 48004

Ion	Ratio	Lower	Upper
91	100		
92	54.7	44.2	66.4
134	21.4	18.2	27.4

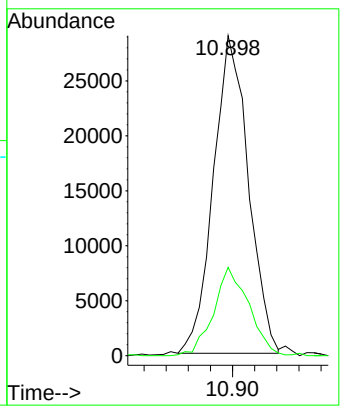




#71
2-Chlorotoluene
Concen: 0.533 ppbv
RT: 10.898 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 91 Resp: 3170

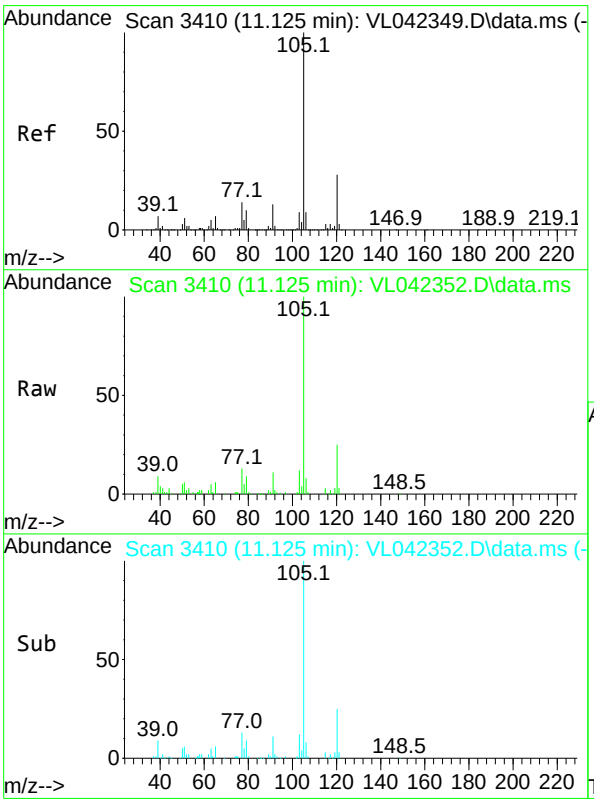
Ion	Ratio	Lower	Upper
91	100		
126	28.3	11.4	45.4



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

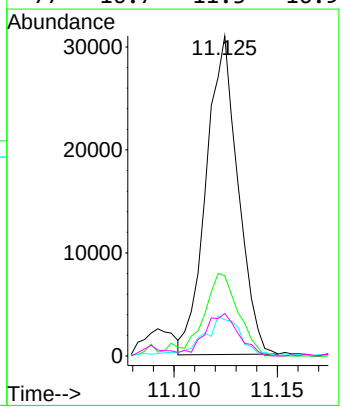
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

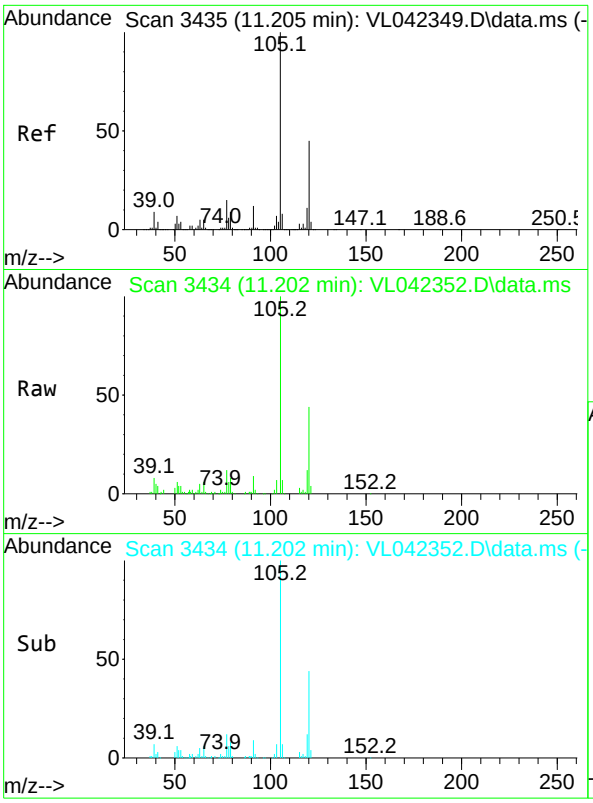


#72
4-Ethyltoluene
Concen: 0.523 ppbv
RT: 11.125 min Scan# 3410
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion:105 Resp: 33048

Ion	Ratio	Lower	Upper
105	100		
120	30.5	23.2	34.8
91	15.7	10.4	15.6#
77	16.7	11.3	16.9

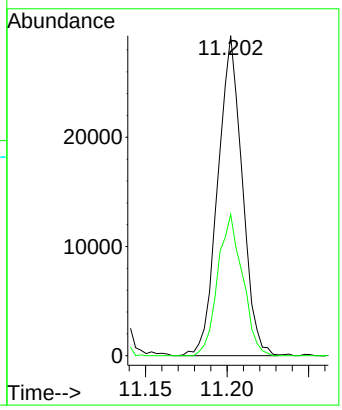




#73
1,3,5-Trimethylbenzene
Concen: 0.546 ppbv
RT: 11.202 min Scan# 34
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion:105 Resp: 3046

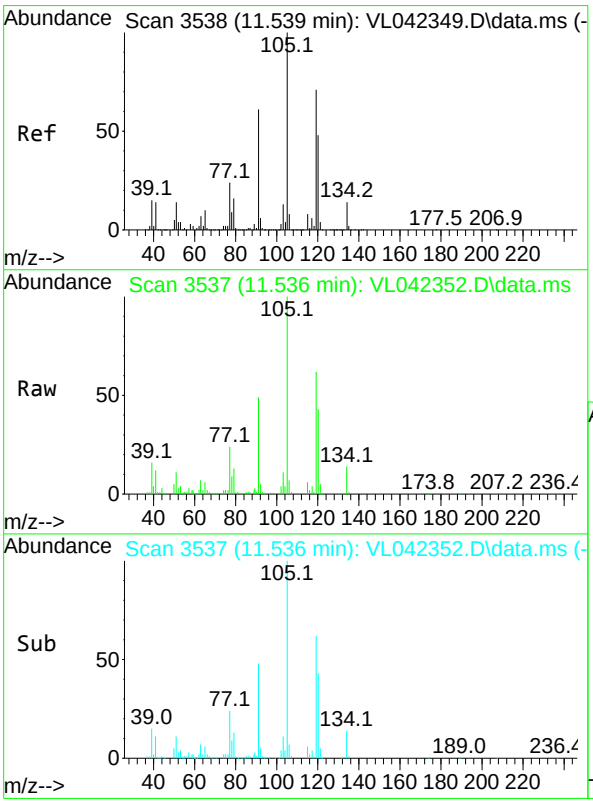
Ion	Ratio	Lower	Upper
105	100		
120	44.1	35.6	53.4



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

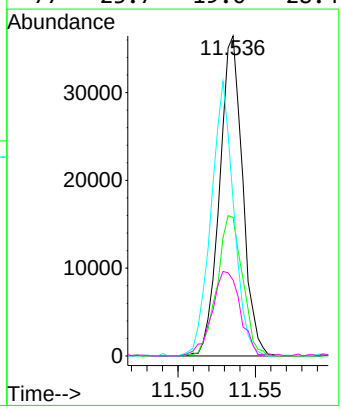
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

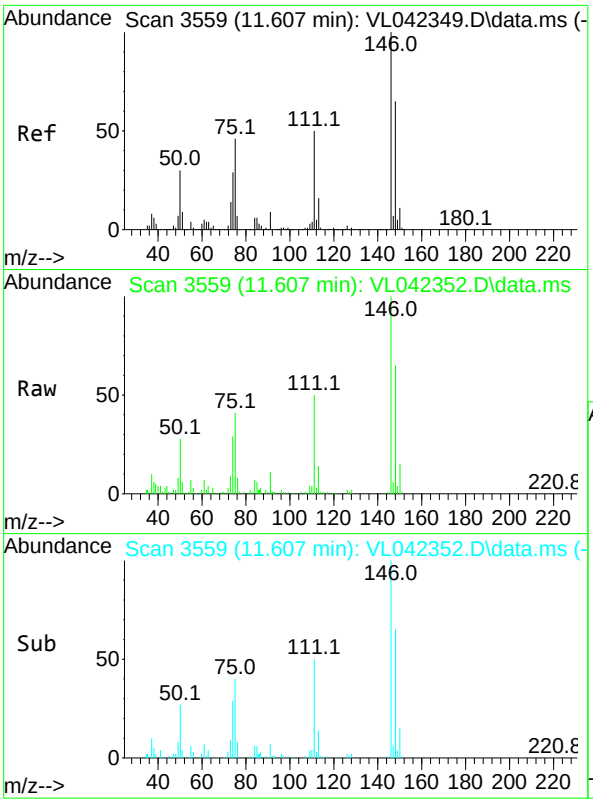


#74
1,2,4-Trimethylbenzene
Concen: 0.579 ppbv
RT: 11.536 min Scan# 3537
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion:105 Resp: 37765

Ion	Ratio	Lower	Upper
105	100		
120	43.3	38.1	57.1
91	48.7	48.8	73.2#
77	23.7	19.0	28.4

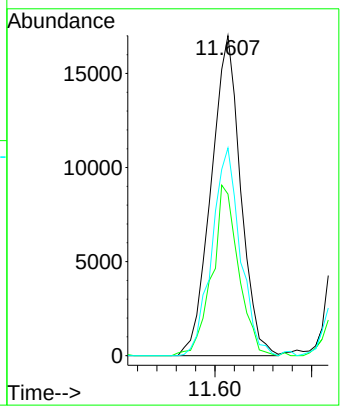




#75
1,3-Dichlorobenzene
Concen: 0.531 ppbv
RT: 11.607 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion:146 Resp: 1800

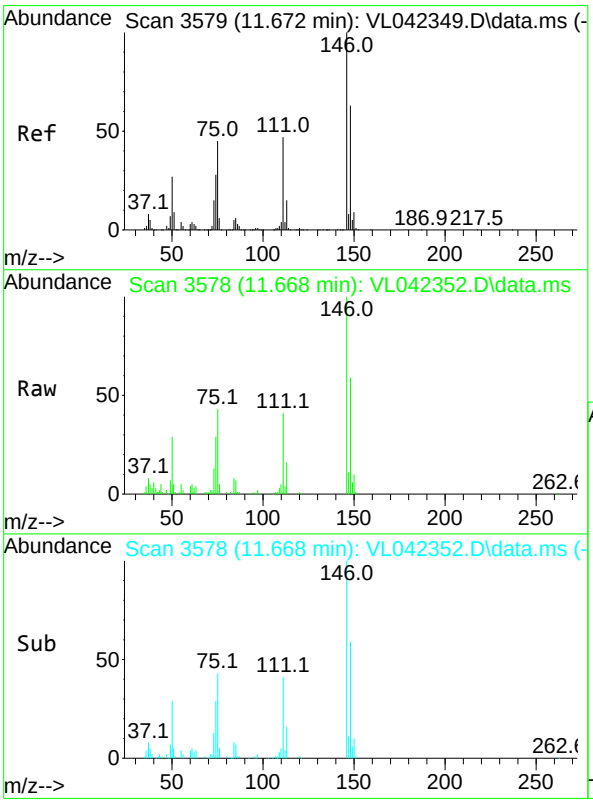
Ion	Ratio	Lower	Upper
146	100		
111	47.9	24.3	72.8
148	62.9	31.6	94.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

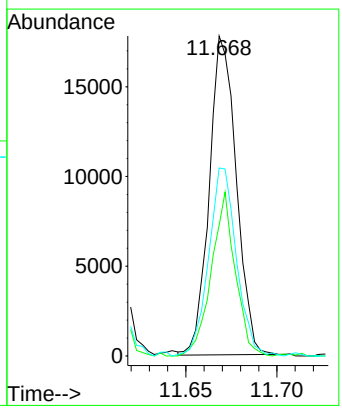
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

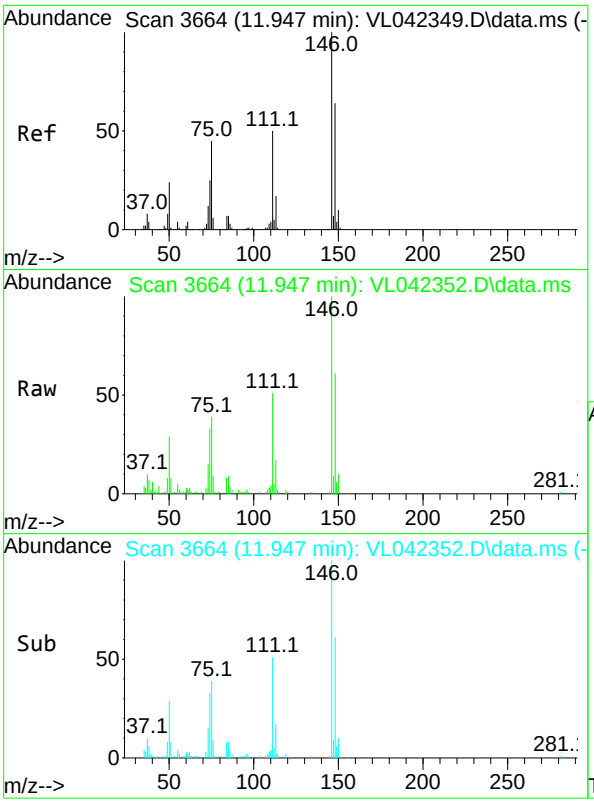


#76
1,4-Dichlorobenzene
Concen: 0.537 ppbv
RT: 11.668 min Scan# 3578
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion:146 Resp: 18300

Ion	Ratio	Lower	Upper
146	100		
111	45.9	24.2	72.6
148	61.2	32.1	96.5

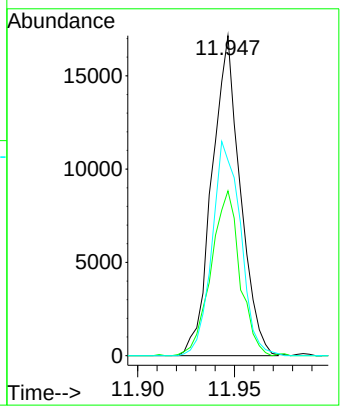




#77
1,2-Dichlorobenzene
Concen: 0.530 ppbv
RT: 11.947 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion:146 Resp: 1744

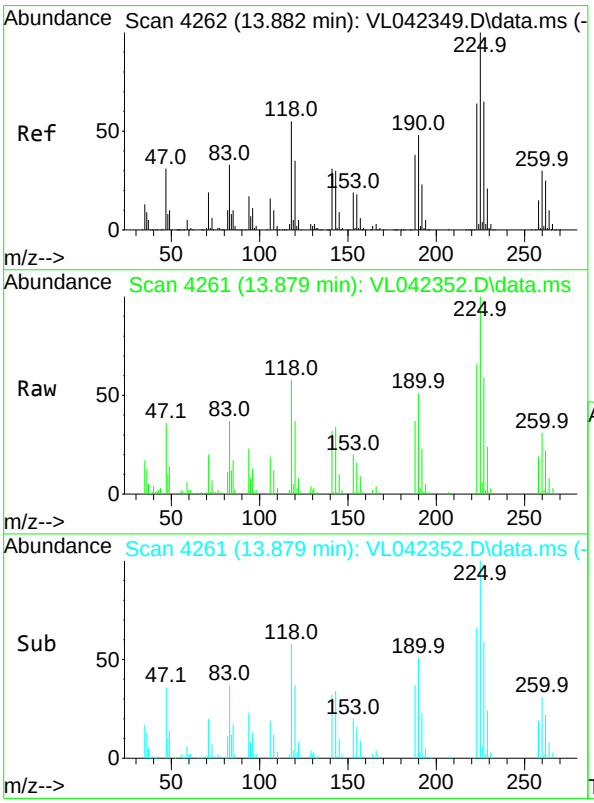
Ion	Ratio	Lower	Upper
146	100		
111	52.6	25.3	75.9
148	67.5	31.5	94.5



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

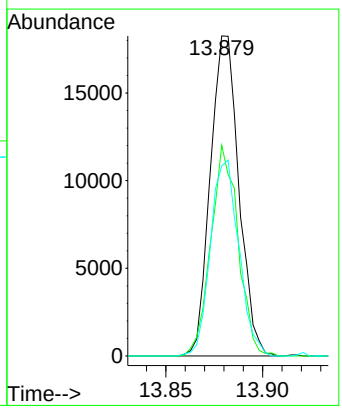
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

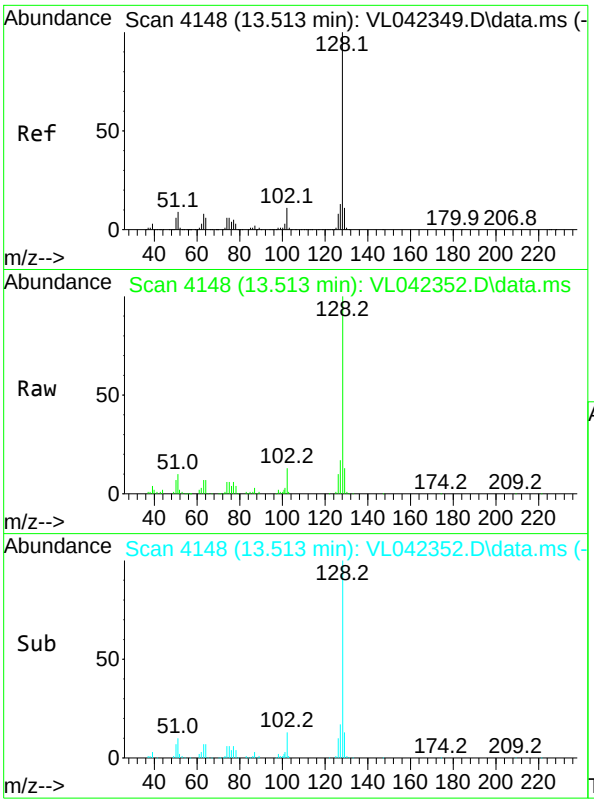


#78
Hexachloro-1,3-Butadiene
Concen: 0.562 ppbv
RT: 13.879 min Scan# 4261
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion:225 Resp: 18705

Ion	Ratio	Lower	Upper
225	100		
223	62.8	50.3	75.5
227	61.1	51.5	77.3

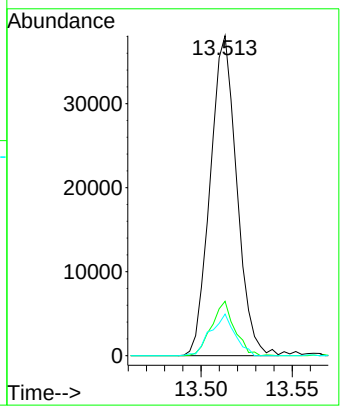




#79
Naphthalene
Concen: 0.494 ppbv
RT: 13.513 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion:128 Resp: 3852

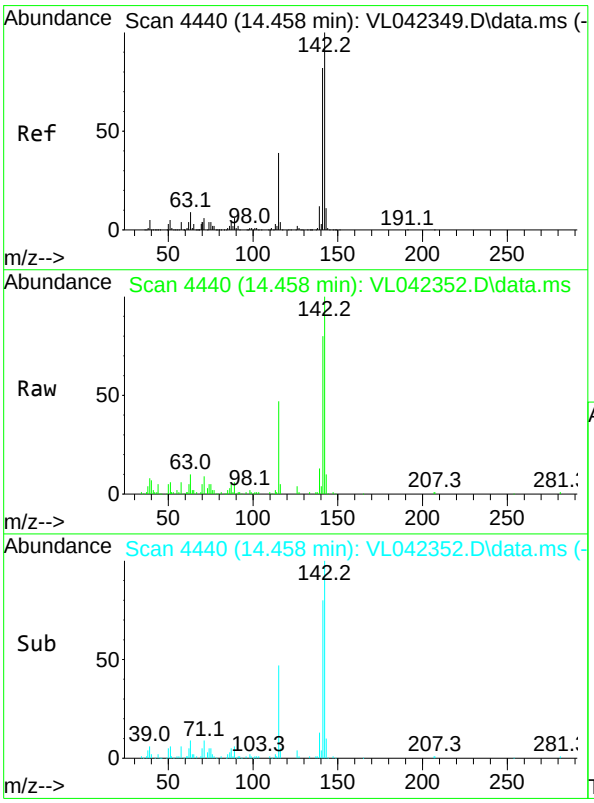
Ion	Ratio	Lower	Upper
128	100		
127	17.0	10.6	15.8#
129	13.0	8.6	12.8#



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

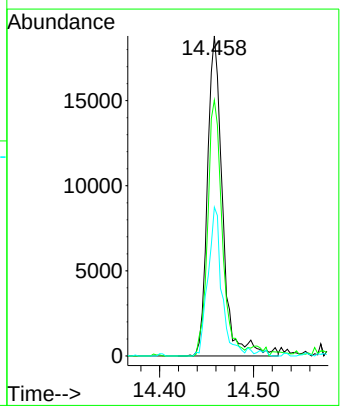
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

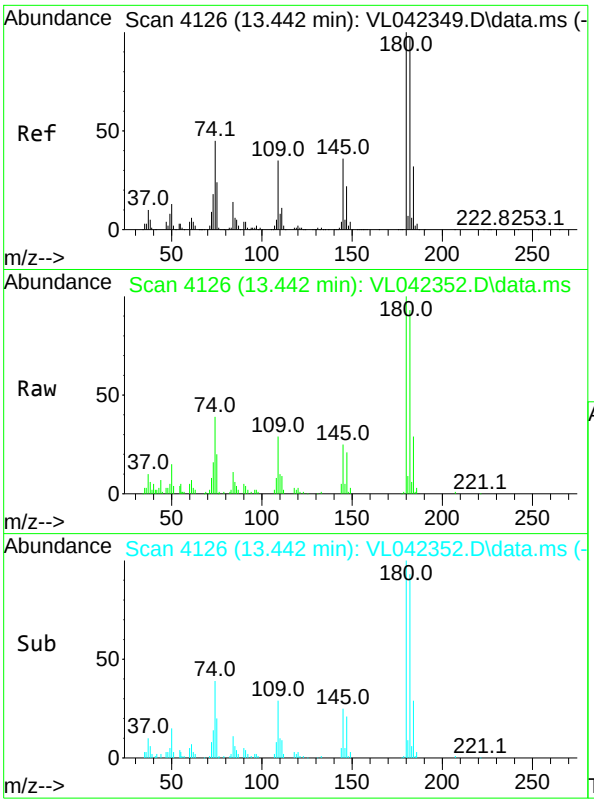


#80
Naphthalene,2-methyl-
Concen: 0.475 ppbv
RT: 14.458 min Scan# 4440
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion:142 Resp: 21076

Ion	Ratio	Lower	Upper
142	100		
141	79.2	66.8	100.2
115	44.1	33.4	50.2

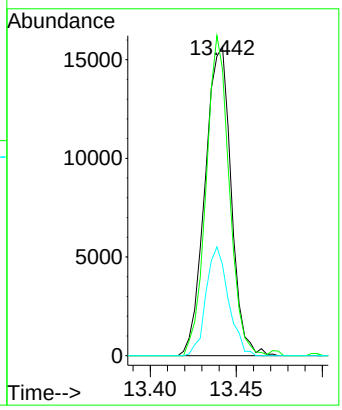




#81
1,2,4-Trichlorobenzene
Concen: 0.493 ppbv
RT: 13.442 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion:180 Resp: 1650

Ion	Ratio	Lower	Upper
180	100		
182	92.4	76.8	115.2
184	30.2	24.6	36.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042353.D
Acq On : 17 Apr 2025 11:50
Operator : SY/MD
Sample : VSTDICC0.1
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 18 01:29:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Fri Apr 18 01:24:29 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.791	49	119461	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	350484	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	315004	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.381	95	256417	9.906	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 99.100%			
Target Compounds						Qvalue
5) Vinyl Chloride	1.580	62	1088	0.120	ppbv	# 74
32) 1,1,1-Trichloroethane	3.367	97	3393m	0.115	ppbv	
35) Carbon Tetrachloride	3.771	117	3204	0.101	ppbv	# 94
38) Trichloroethene	4.551	130	1771m	0.107	ppbv	
52) Tetrachloroethene	8.222	164	1583m	0.108	ppbv	
54) 1,2-Dibromoethane	7.662	107	2177m	0.106	ppbv	
63) 1,1,2,2-Tetrachloroethane	9.966	83	3706m	0.113	ppbv	
79) Naphthalene	13.517	128	7664	0.100	ppbv	# 92

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

Quantitation Report (QT Reviewed)

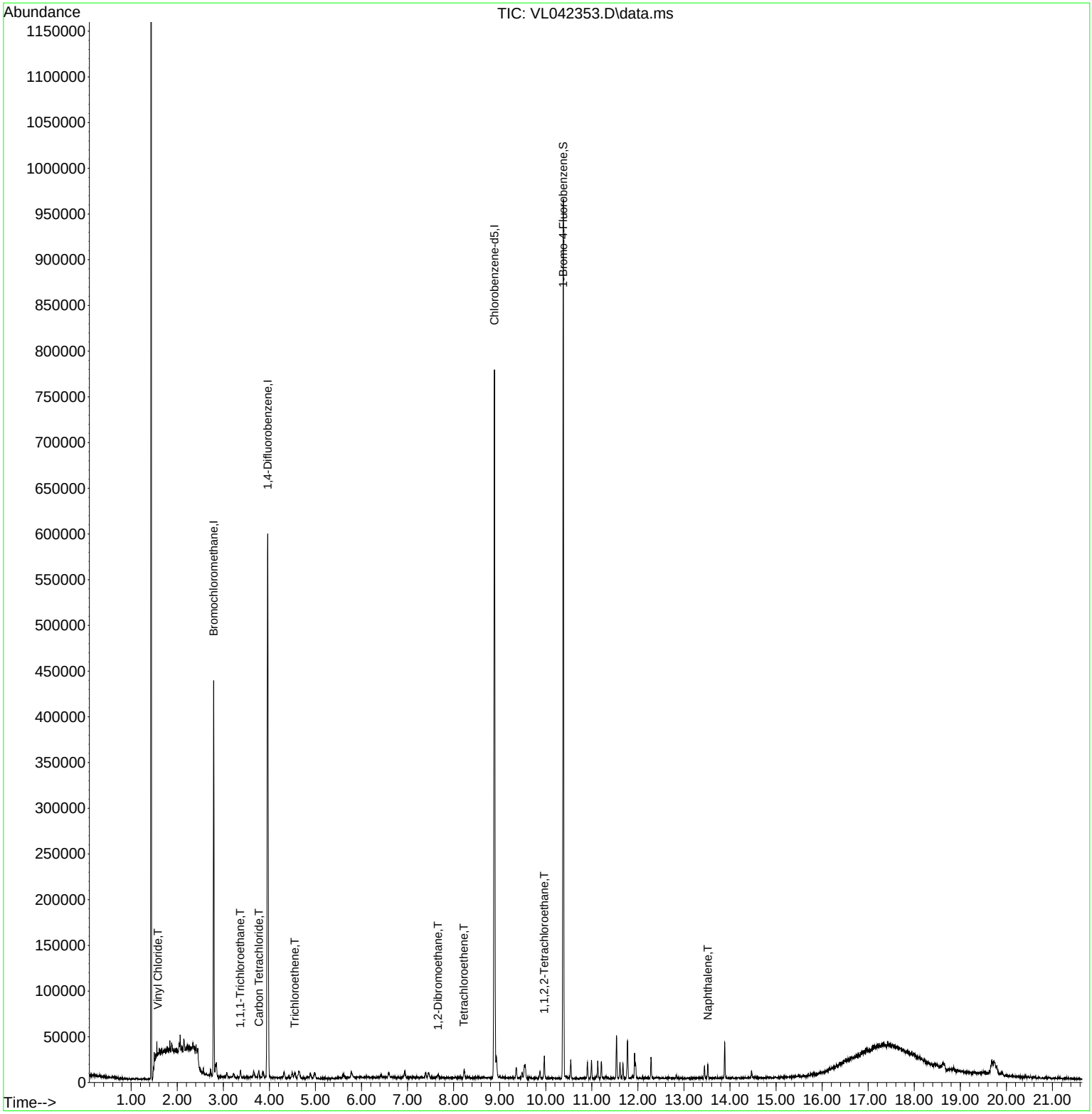
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042353.D
Acq On : 17 Apr 2025 11:50
Operator : SY/MD
Sample : VSTDICC0.1
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

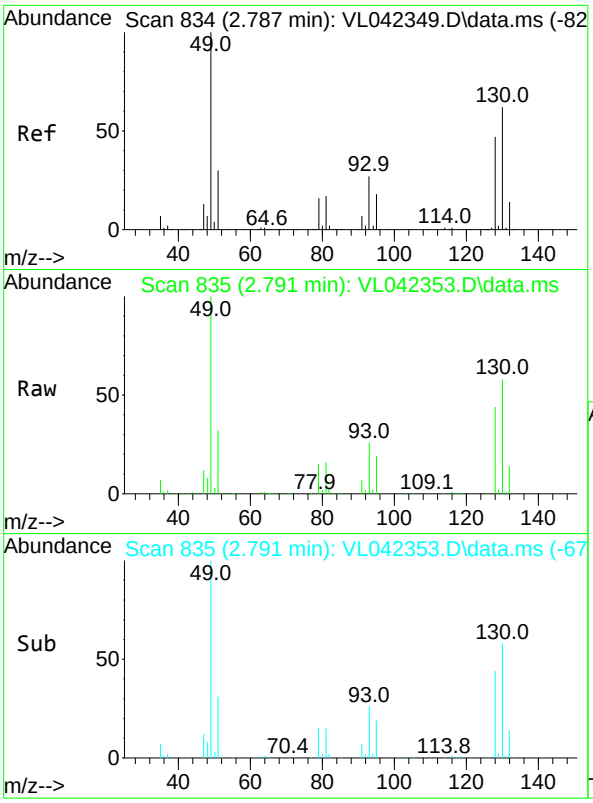
Quant Time: Apr 18 01:29:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Apr 18 01:24:29 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

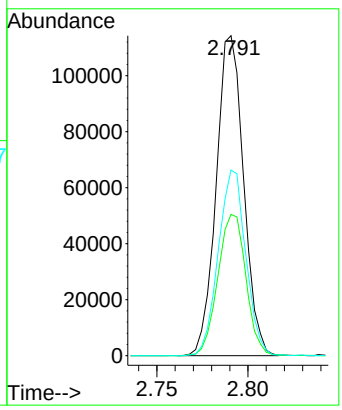




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.791 min Scan# 8
Delta R.T. 0.004 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Tgt Ion: 49 Resp: 11946

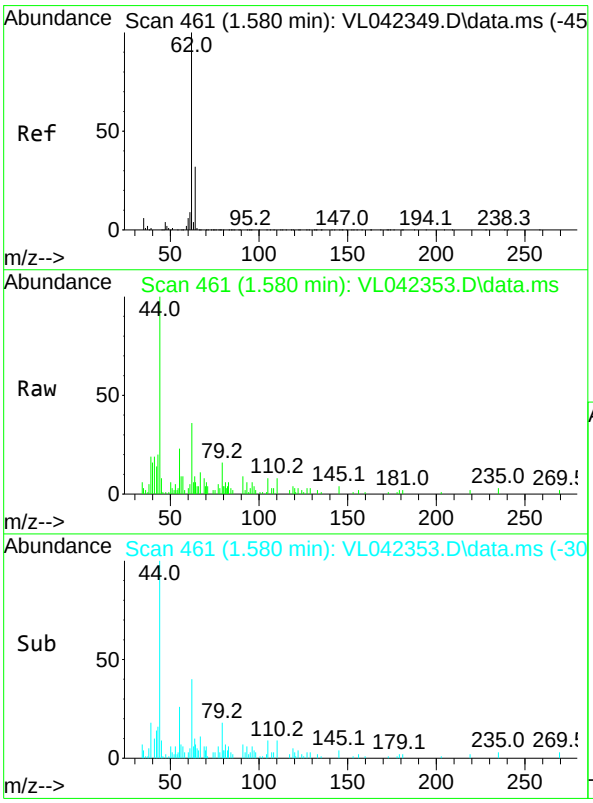
Ion	Ratio	Lower	Upper
49	100		
128	45.3	22.8	68.4
130	58.3	29.3	88.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Manual Integrations
APPROVED

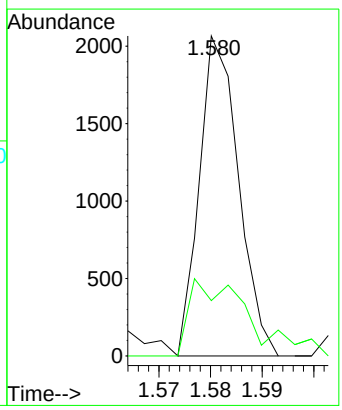
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

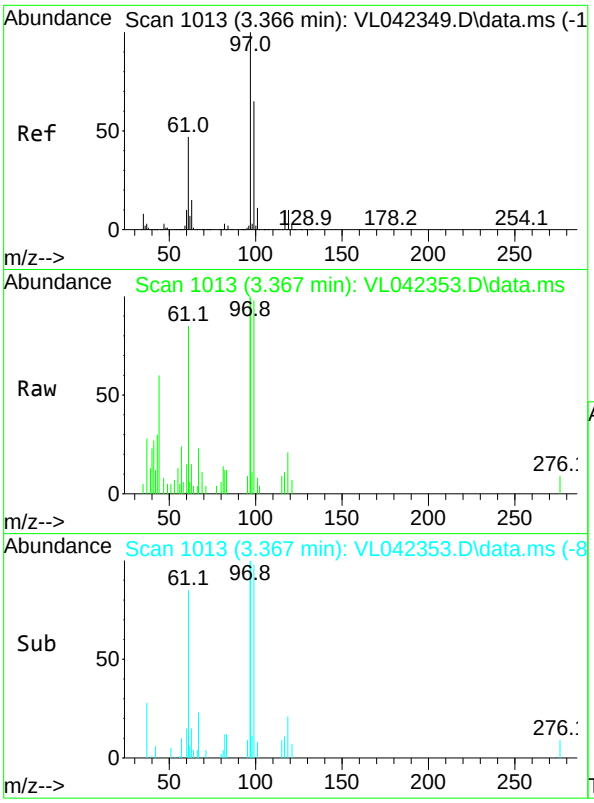


#5
Vinyl Chloride
Concen: 0.120 ppbv
RT: 1.580 min Scan# 461
Delta R.T. 0.000 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Tgt Ion: 62 Resp: 1088

Ion	Ratio	Lower	Upper
62	100		
64	17.3	25.4	38.0#

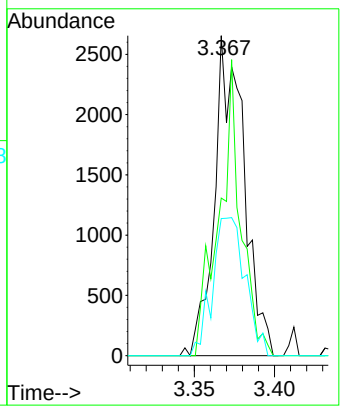




#32
1,1,1-Trichloroethane
Concen: 0.115 ppbv m
RT: 3.367 min Scan# 1
Delta R.T. 0.000 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Tgt Ion: 97 Resp: 339

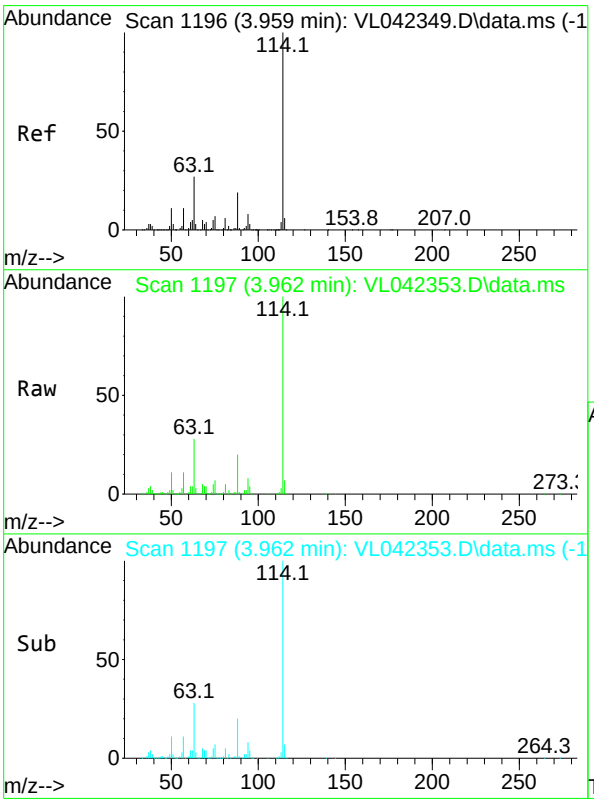
Ion	Ratio	Lower	Upper
97	100		
99	68.2	51.0	76.4
61	47.9	38.8	58.2



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Manual Integrations
APPROVED

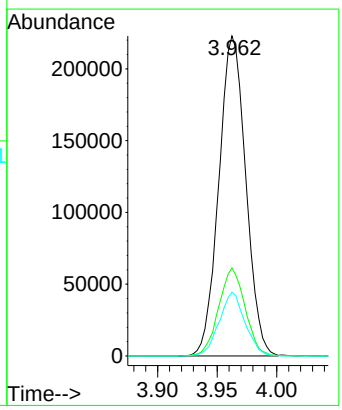
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

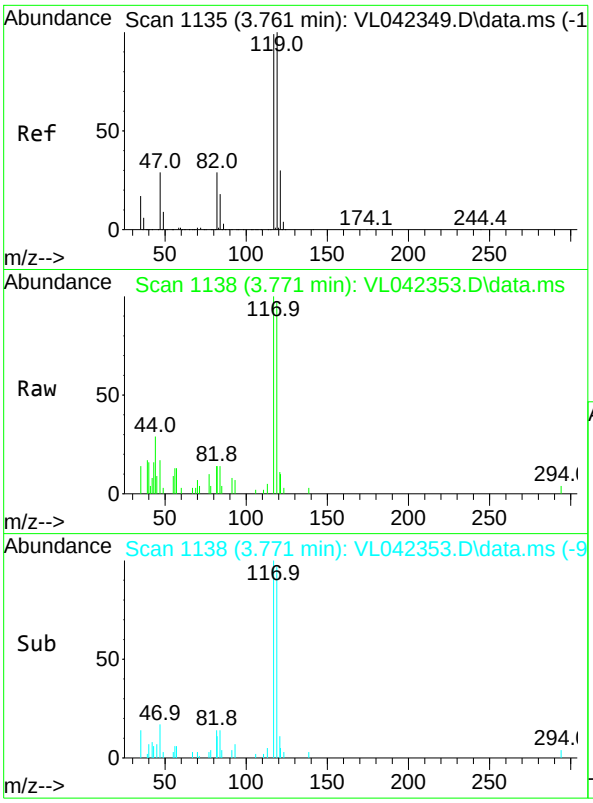


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.962 min Scan# 1197
Delta R.T. 0.004 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Tgt Ion:114 Resp: 350484

Ion	Ratio	Lower	Upper
114	100		
63	26.9	21.8	32.6
88	19.1	15.5	23.3

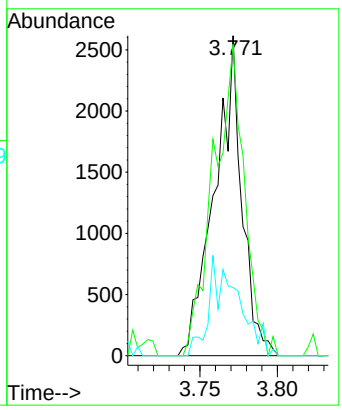




#35
Carbon Tetrachloride
Concen: 0.101 ppbv
RT: 3.771 min Scan# 1
Delta R.T. 0.010 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Tgt Ion:117 Resp: 320

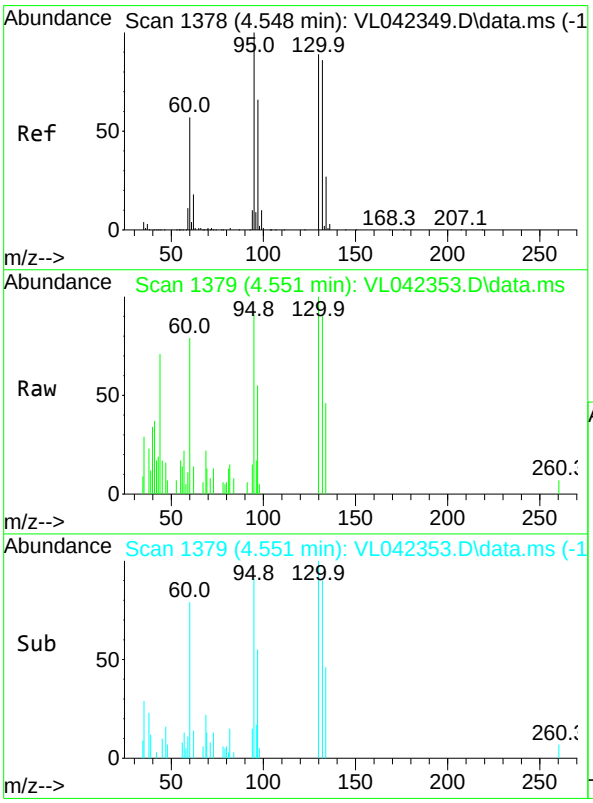
Ion	Ratio	Lower	Upper
117	100		
119	97.3	80.5	120.7
121	21.3	24.2	36.2#



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Manual Integrations
APPROVED

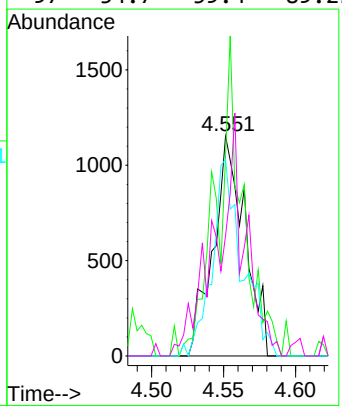
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

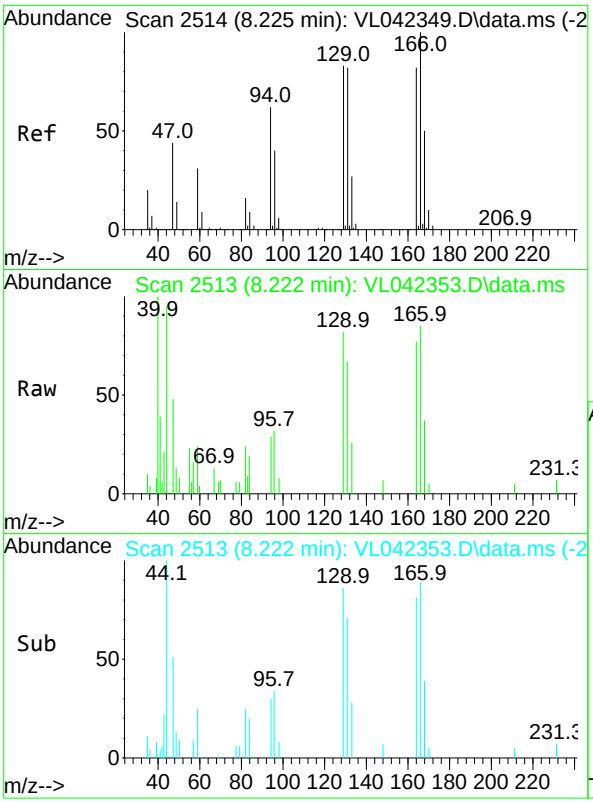


#38
Trichloroethene
Concen: 0.107 ppbv m
RT: 4.551 min Scan# 1379
Delta R.T. 0.004 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Tgt Ion:130 Resp: 1771

Ion	Ratio	Lower	Upper
130	100		
95	90.9	89.8	134.6
132	89.6	77.7	116.5
97	54.7	59.4	89.2#

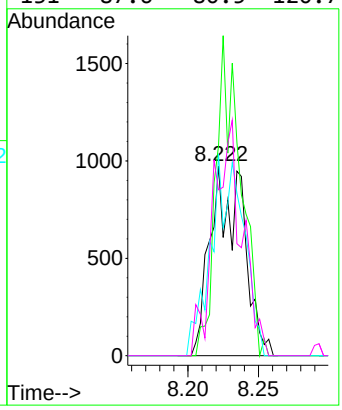




#52
Tetrachloroethene
Concen: 0.108 ppbv m
RT: 8.222 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Tgt Ion:164 Resp: 158

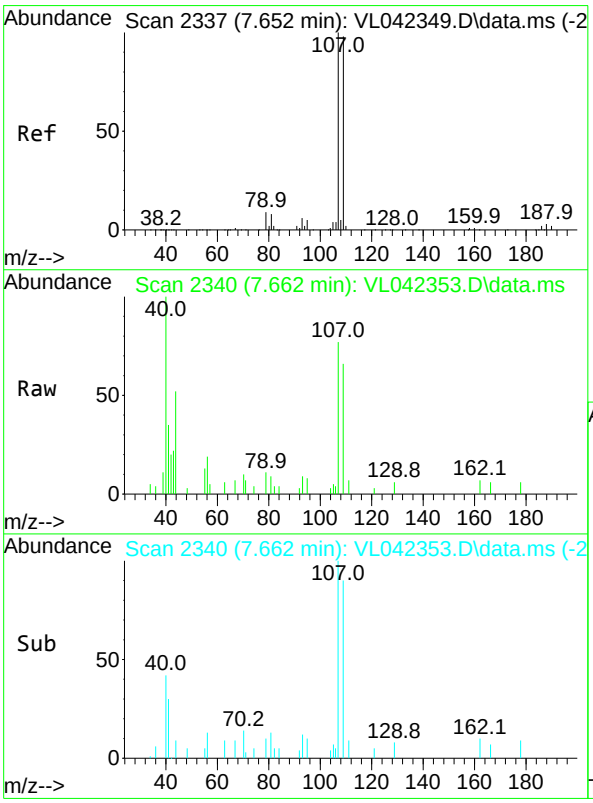
Ion	Ratio	Lower	Upper
164	100		
166	110.6	98.2	147.2
129	106.5	81.8	122.8
131	87.6	80.5	120.7



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Manual Integrations
APPROVED

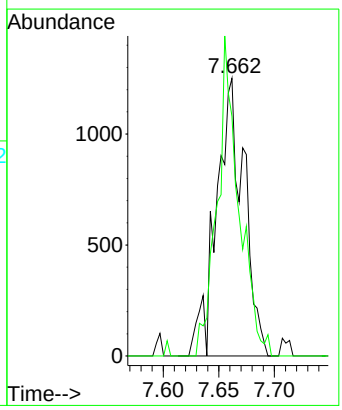
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

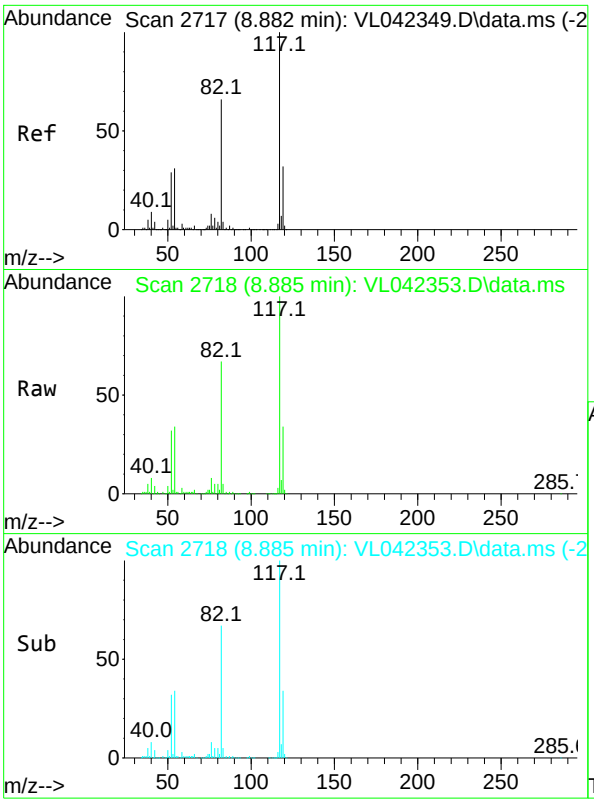


#54
1,2-Dibromoethane
Concen: 0.106 ppbv m
RT: 7.662 min Scan# 2340
Delta R.T. 0.010 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Tgt Ion:107 Resp: 2177

Ion	Ratio	Lower	Upper
107	100		
109	86.3	78.2	117.4

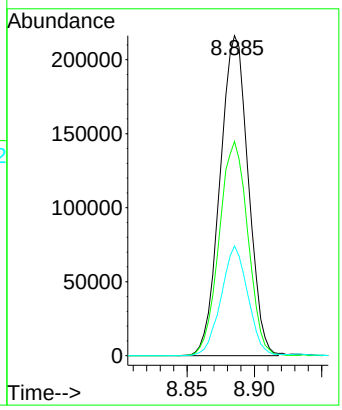




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.885 min Scan# 2
Delta R.T. 0.004 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Tgt Ion:117 Resp: 31500

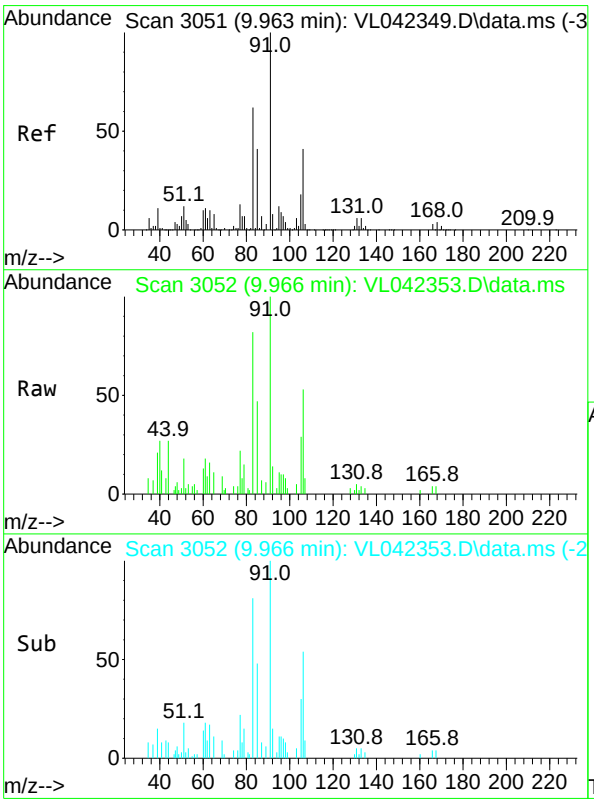
Ion	Ratio	Lower	Upper
117	100		
82	68.1	57.8	86.6
119	33.0	25.2	37.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Manual Integrations
APPROVED

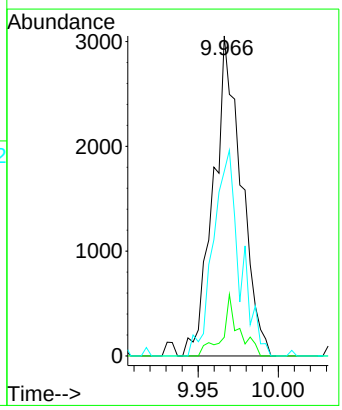
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

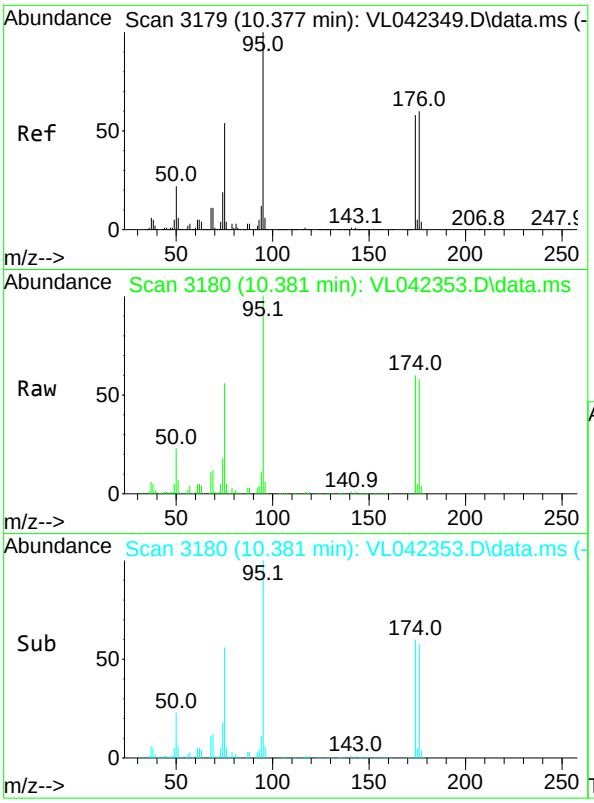


#63
1,1,2,2-Tetrachloroethane
Concen: 0.113 ppbv m
RT: 9.966 min Scan# 3052
Delta R.T. 0.004 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Tgt Ion: 83 Resp: 3706

Ion	Ratio	Lower	Upper
83	100		
131	11.2	4.5	13.7
85	61.7	32.4	97.0

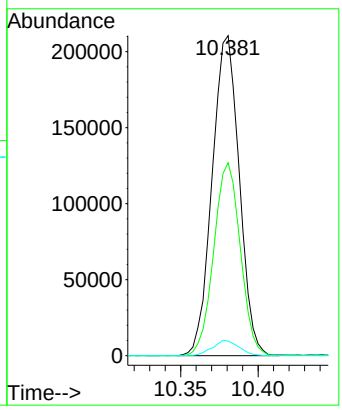




#68
1-Bromo-4-Fluorobenzene
Concen: 9.906 ppbv
RT: 10.381 min Scan# 3
Delta R.T. 0.004 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Tgt Ion: 95 Resp: 25641

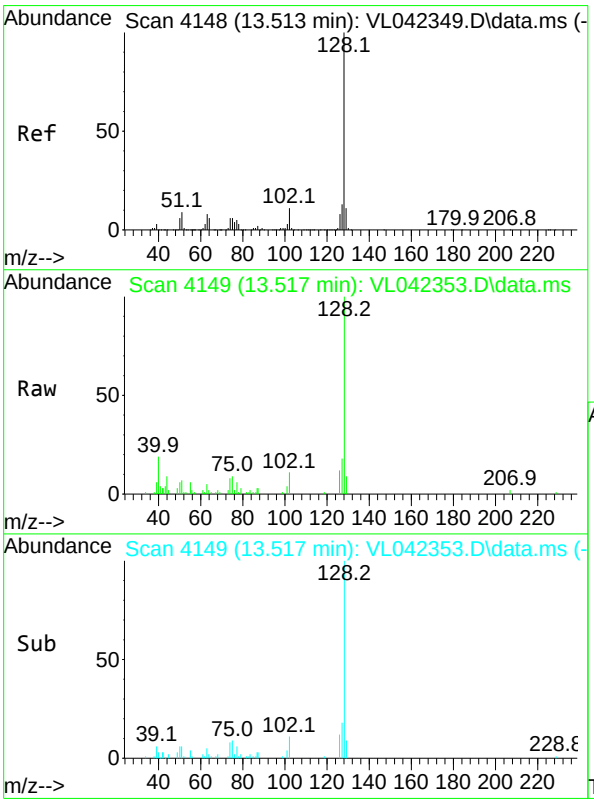
Ion	Ratio	Lower	Upper
95	100		
174	59.3	48.5	72.7
175	4.7	3.7	5.5



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Manual Integrations
APPROVED

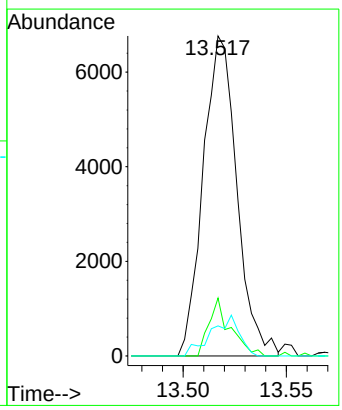
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#79
Naphthalene
Concen: 0.100 ppbv
RT: 13.517 min Scan# 4149
Delta R.T. 0.004 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Tgt Ion:128 Resp: 7664

Ion	Ratio	Lower	Upper
128	100		
127	18.1	10.6	15.8#
129	9.4	8.6	12.8



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042354.D
Acq On : 17 Apr 2025 12:22
Operator : SY/MD
Sample : VSTDICC0.03
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 18 02:07:48 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Apr 18 01:24:29 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.790	49	120042	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	349264	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	312999	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.380	95	256230	9.962	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 99.600%			
Target Compounds						Qvalue
5) Vinyl Chloride	1.583	62	361	0.040	ppbv	# 76
32) 1,1,1-Trichloroethane	3.373	97	1120m	0.038	ppbv	
35) Carbon Tetrachloride	3.768	117	1382m	0.044	ppbv	
38) Trichloroethene	4.538	130	674m	0.041	ppbv	
52) Tetrachloroethene	8.228	164	569m	0.039	ppbv	
63) 1,1,2,2-Tetrachloroethane	9.972	83	1321m	0.040	ppbv	

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

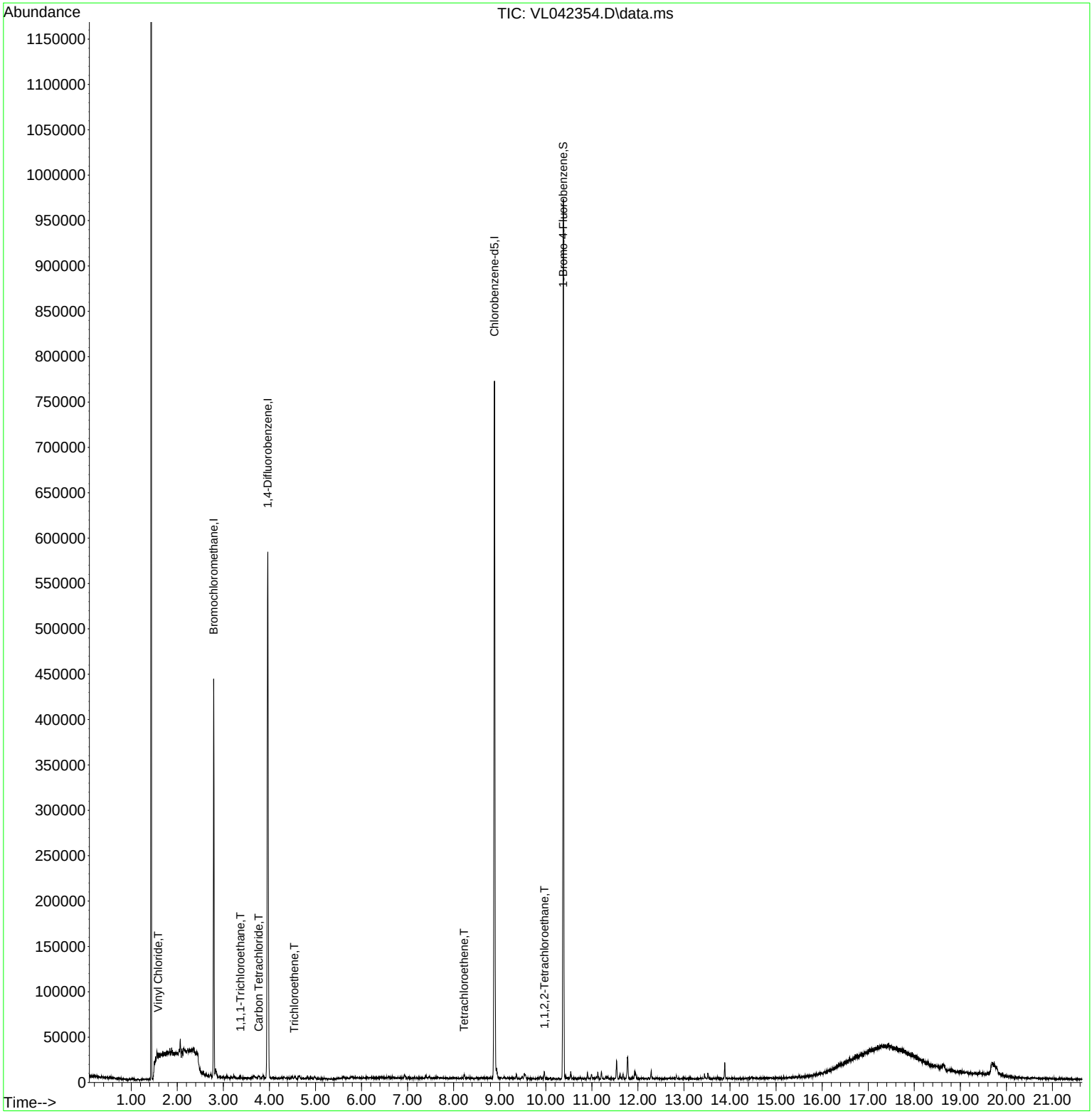
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042354.D
Acq On : 17 Apr 2025 12:22
Operator : SY/MD
Sample : VSTDICC0.03
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

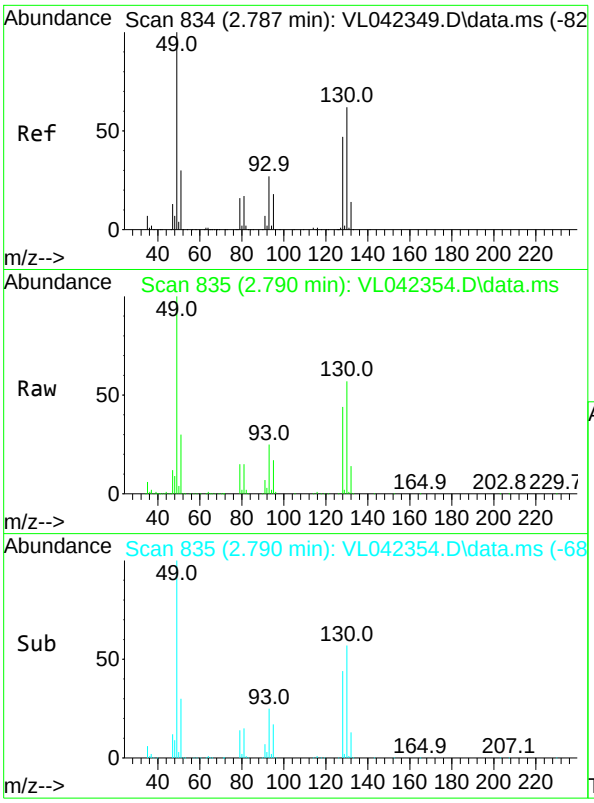
Quant Time: Apr 18 02:07:48 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Apr 18 01:24:29 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

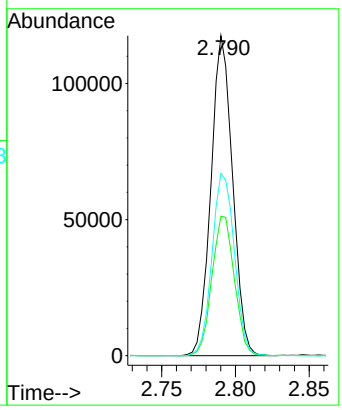




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Tgt Ion: 49 Resp: 12004

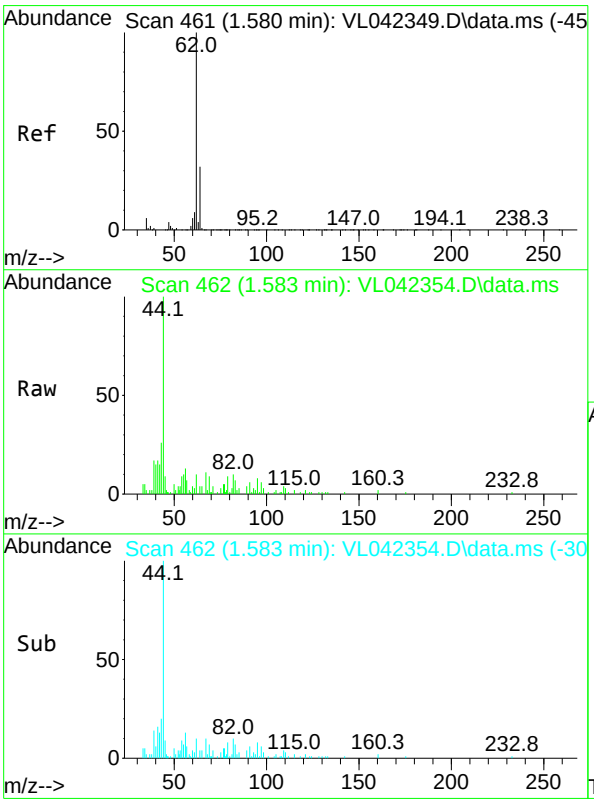
Ion	Ratio	Lower	Upper
49	100		
128	45.3	22.8	68.4
130	59.0	29.3	88.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Manual Integrations
APPROVED

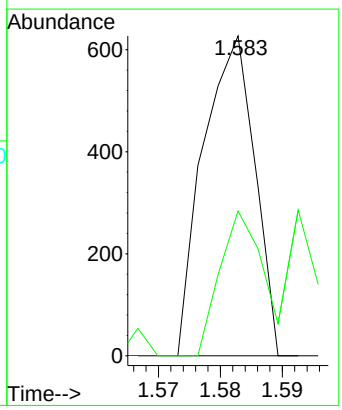
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

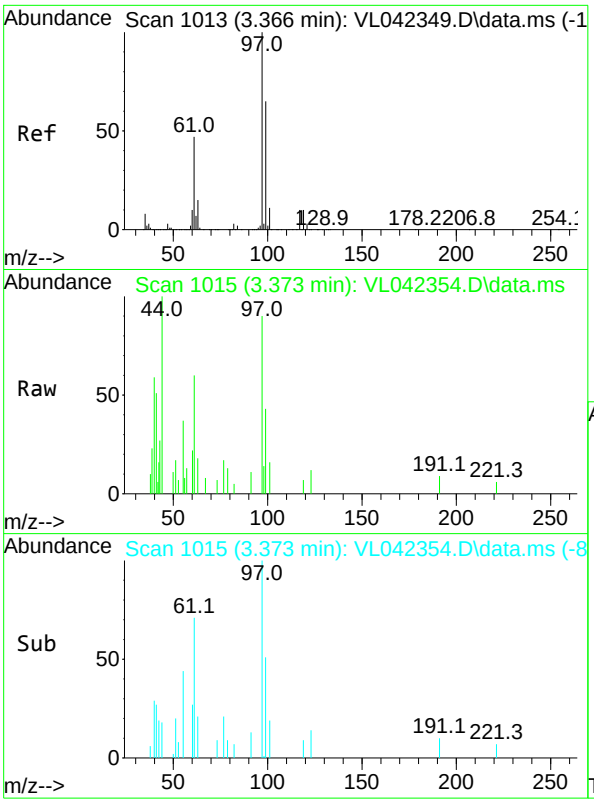


#5
Vinyl Chloride
Concen: 0.040 ppbv
RT: 1.583 min Scan# 462
Delta R.T. 0.003 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Tgt Ion: 62 Resp: 361

Ion	Ratio	Lower	Upper
62	100		
64	45.3	25.4	38.0#

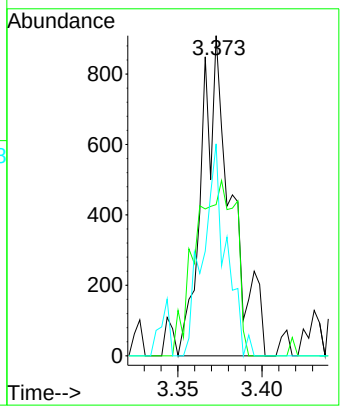




#32
1,1,1-Trichloroethane
Concen: 0.038 ppbv m
RT: 3.373 min Scan# 1
Delta R.T. 0.006 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Tgt Ion: 97 Resp: 112

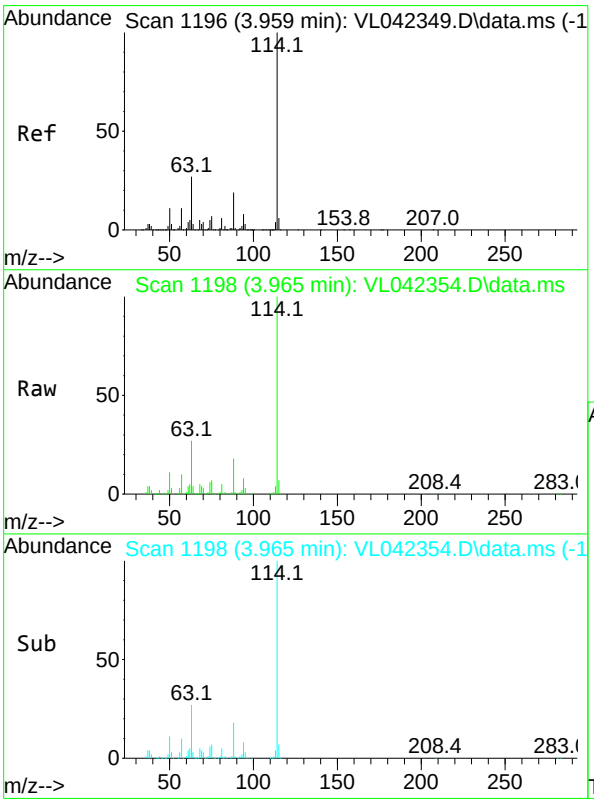
Ion	Ratio	Lower	Upper
97	100		
99	74.4	51.0	76.4
61	56.9	38.8	58.2



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Manual Integrations APPROVED

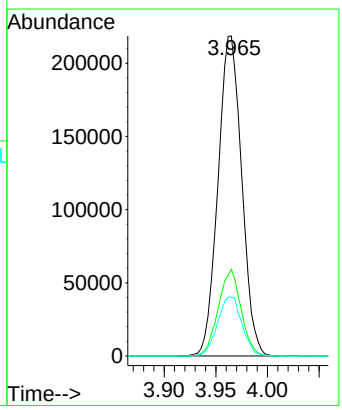
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

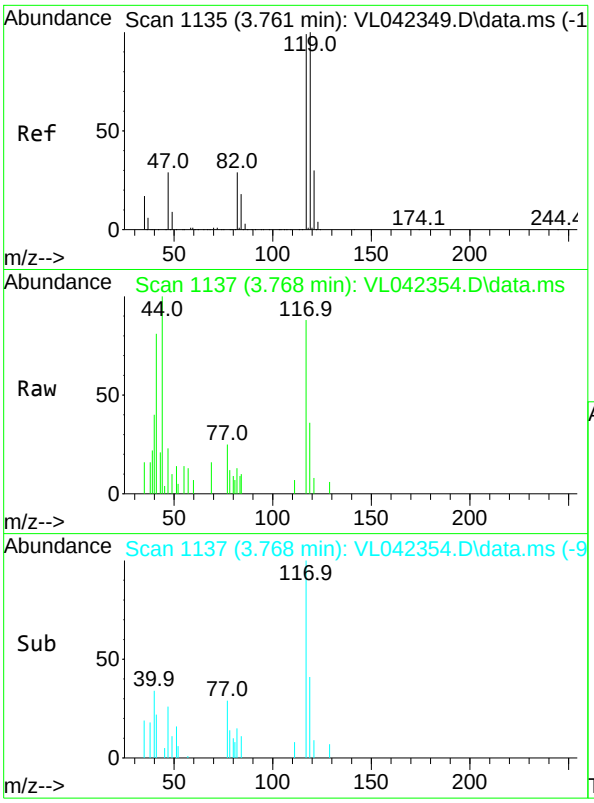


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.965 min Scan# 1198
Delta R.T. 0.006 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Tgt Ion:114 Resp: 349264

Ion	Ratio	Lower	Upper
114	100		
63	26.0	21.8	32.6
88	19.0	15.5	23.3

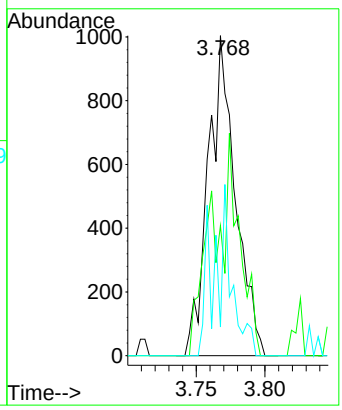




#35
Carbon Tetrachloride
Concen: 0.044 ppbv m
RT: 3.768 min Scan# 1
Delta R.T. 0.006 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Tgt Ion:117 Resp: 138

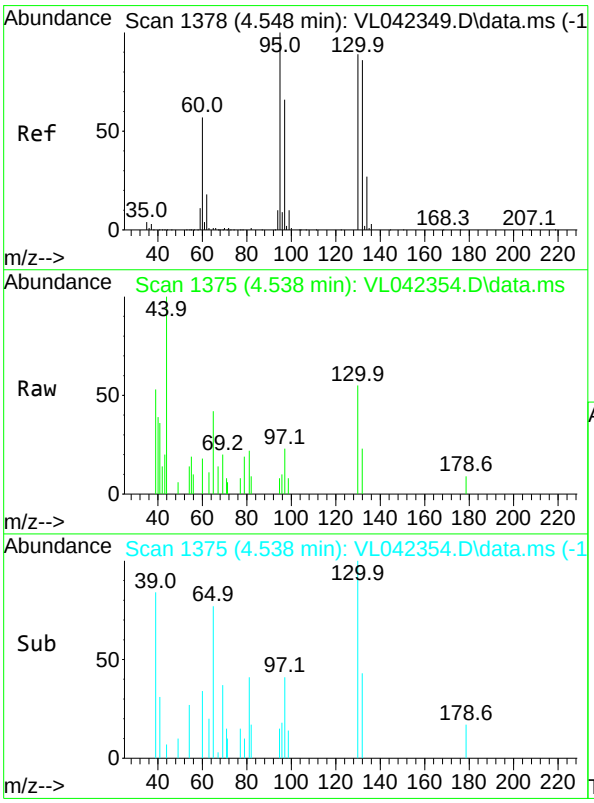
Ion	Ratio	Lower	Upper
117	100		
119	40.6	80.5	120.7#
121	9.0	24.2	36.2#



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Manual Integrations
APPROVED

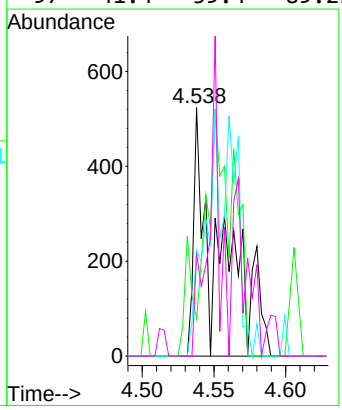
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

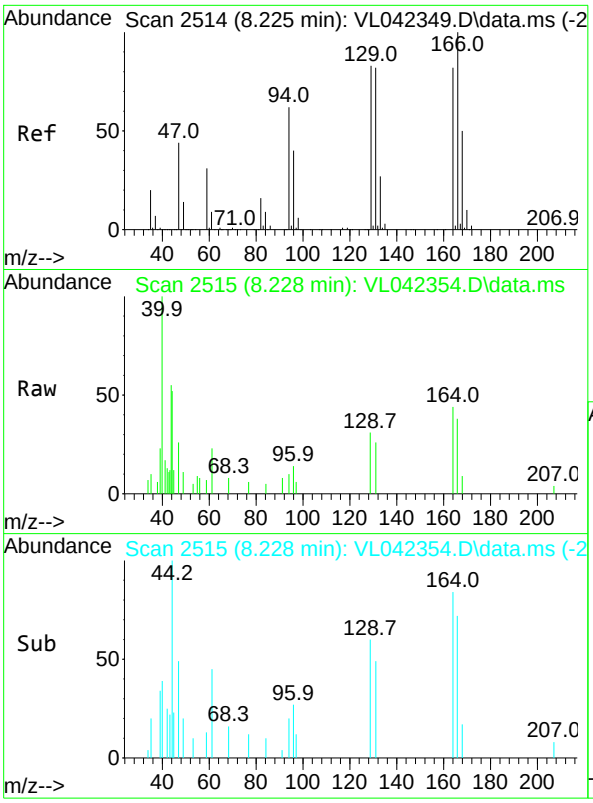


#38
Trichloroethene
Concen: 0.041 ppbv m
RT: 4.538 min Scan# 1375
Delta R.T. -0.010 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Tgt Ion:130 Resp: 674

Ion	Ratio	Lower	Upper
130	100		
95	15.1	89.8	134.6#
132	42.6	77.7	116.5#
97	41.4	59.4	89.2#

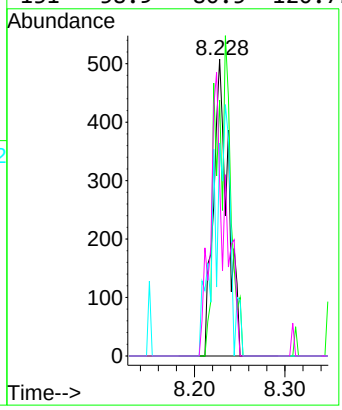




#52
Tetrachloroethene
Concen: 0.039 ppbv m
RT: 8.228 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Tgt Ion:164 Resp: 56

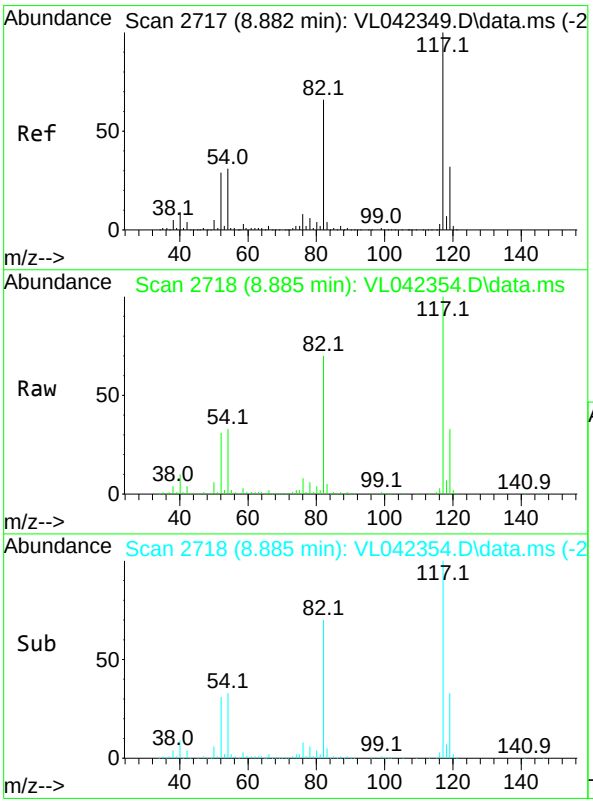
Ion	Ratio	Lower	Upper
164	100		
166	86.2	98.2	147.2#
129	71.7	81.8	122.8#
131	58.9	80.5	120.7#



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Manual Integrations
APPROVED

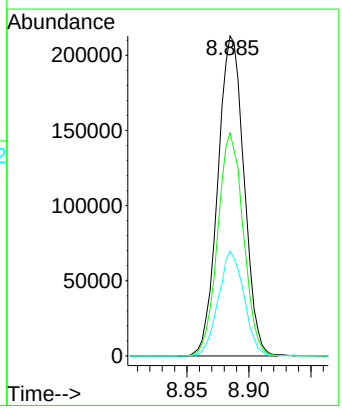
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

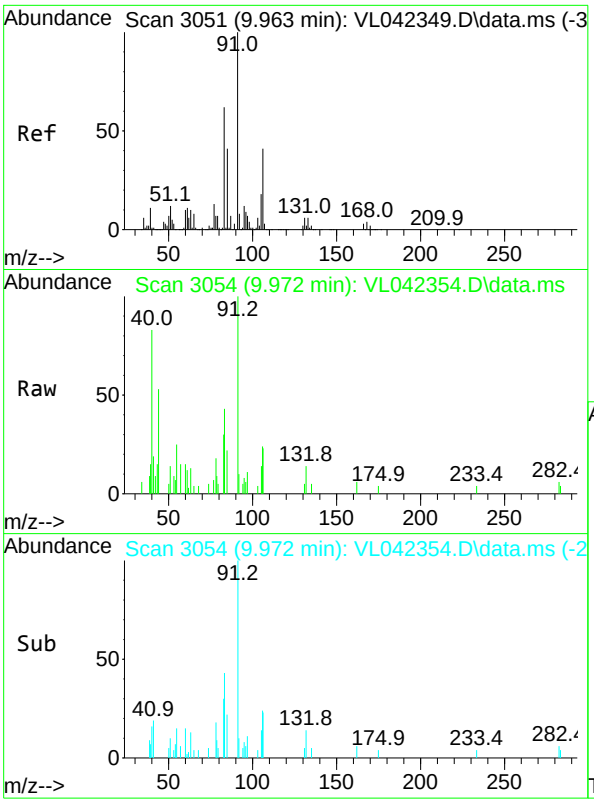


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.885 min Scan# 2718
Delta R.T. 0.003 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Tgt Ion:117 Resp: 312999

Ion	Ratio	Lower	Upper
117	100		
82	68.5	57.8	86.6
119	32.2	25.2	37.8

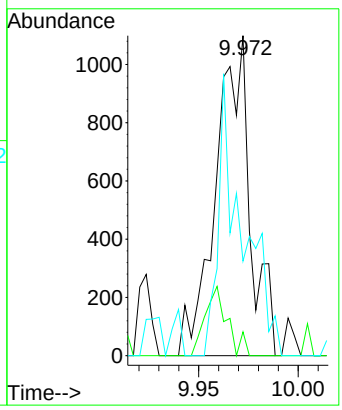




#63
1,1,2,2-Tetrachloroethane
Concen: 0.040 ppbv m
RT: 9.972 min Scan# 3
Delta R.T. 0.010 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Tgt Ion: 83 Resp: 132

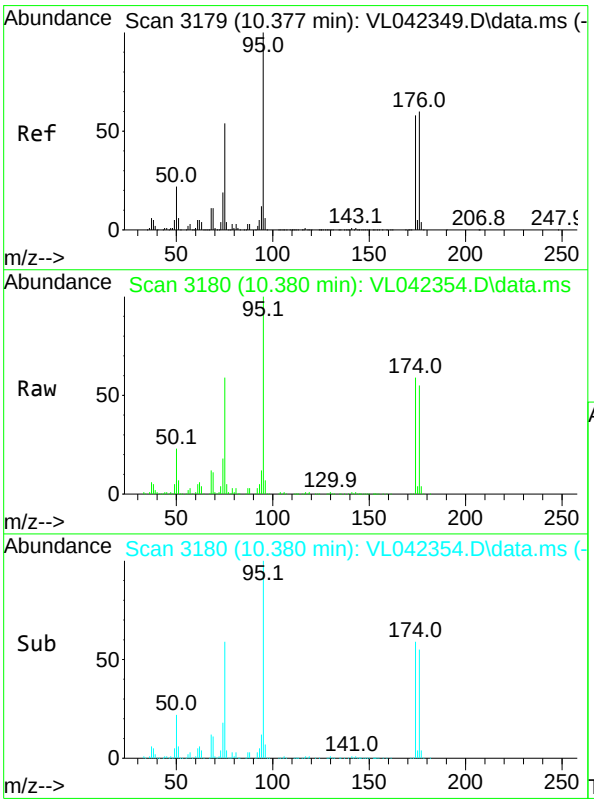
Ion	Ratio	Lower	Upper
83	100		
131	13.9	4.5	13.7
85	61.4	32.4	97.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Manual Integrations
APPROVED

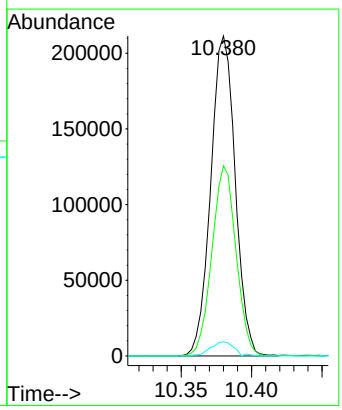
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#68
1-Bromo-4-Fluorobenzene
Concen: 9.962 ppbv
RT: 10.380 min Scan# 3180
Delta R.T. 0.003 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Tgt Ion: 95 Resp: 256230

Ion	Ratio	Lower	Upper
95	100		
174	58.6	48.5	72.7
175	4.3	3.7	5.5



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042355.D
Acq On : 17 Apr 2025 12:54
Operator : SY/MD
Sample : VSTDICC015
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 18 01:31:10 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Fri Apr 18 01:24:29 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.787	49	116071	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	332080	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.882	117	308463	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	254437	10.038	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 100.400%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	292784	14.277	ppbv	99
3) Chlorodifluoromethane	1.477	51	280042	14.341	ppbv	98
4) Chloromethane	1.532	50	115775	14.266	ppbv	99
5) Vinyl Chloride	1.580	62	112650	12.752	ppbv	100
6) Bromomethane	1.667	94	52805	13.800	ppbv	88
7) Chloroethane	1.703	64	44347	13.881	ppbv	98
8) Dichlorotetrafluoroethane	1.554	85	255029	14.484	ppbv	98
9) Propene	1.483	41	123102	13.842	ppbv	95
10) Heptane	4.979	43	336134	14.047	ppbv	100
11) Trichlorofluoromethane	1.875	101	278059	14.258	ppbv	99
12) 1,1,2-Trichlorotrifluo...	2.137	101	230366	14.447	ppbv	99
13) Ethanol	1.719	45	6324	8.702	ppbv	76
14) Bromoethene	1.781	108	84851	14.117	ppbv	99
15) Acetone	1.833	43	229086	12.056	ppbv	99
16) 1,3-Butadiene	1.609	39	117997	13.224	ppbv	96
17) tert-Butyl alcohol	2.040	59	320605	13.615	ppbv	99
18) 1,1-Dichloroethene	2.033	96	107666	14.045	ppbv	99
19) Isopropyl Alcohol	1.884	45	139004	13.169	ppbv	94
20) Methylene Chloride	2.059	84	91093	12.241	ppbv	90
21) Allyl Chloride	2.095	41	187995	14.329	ppbv	99
22) trans-1,2-Dichloroethene	2.341	96	118492	13.970	ppbv	94
23) Vinyl Acetate	2.460	43	106135	13.799	ppbv #	98
24) 1,1-Dichloroethane	2.409	63	235466	14.615	ppbv	99
25) Ethyl Acetate	2.836	43	663644	14.166	ppbv	100
26) Hexane	2.826	57	260975	13.765	ppbv	97
27) Carbon Disulfide	2.150	76	299098	14.734	ppbv	97
28) Methyl tert-Butyl Ether	2.438	73	174855	14.076	ppbv	95
29) Chloroform	2.849	83	385686	14.393	ppbv	99
30) Cyclohexane	3.855	84	217375	14.238	ppbv	98
31) cis-1,2-Dichloroethene	2.719	61	264972	14.700	ppbv	98
32) 1,1,1-Trichloroethane	3.367	97	412537	14.357	ppbv	99
34) 2-Butanone	2.558	43	367315	13.986	ppbv	100
35) Carbon Tetrachloride	3.762	117	409916	13.639	ppbv	94
36) Benzene	3.655	78	522156	14.578	ppbv	97
37) 1,2-Dichloroethane	3.218	62	319517	14.863	ppbv	100
38) Trichloroethene	4.548	130	208508	13.278	ppbv	98
39) 1,2-Dichloropropane	4.312	63	189697	14.201	ppbv	97
40) 1,4-Dioxane	4.580	88	92114	12.733	ppbv #	95
41) Tetrahydrofuran	3.053	42	214949	14.166	ppbv	98
42) Bromodichloromethane	4.490	83	442735	14.798	ppbv	95
43) Methyl Methacrylate	4.878	69	219757	13.670	ppbv	95
44) 2,2,4-Trimethylpentane	4.642	57	893529	14.425	ppbv	99
45) t-1,3-Dichloropropene	6.412	75	244470	14.810	ppbv	94

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042355.D
Acq On : 17 Apr 2025 12:54
Operator : SY/MD
Sample : VSTDICC015
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 18 01:31:10 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Fri Apr 18 01:24:29 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46)	cis-1,3-Dichloropropene	5.600	75	300145	14.878	ppbv		90
47)	1,1,2-Trichloroethane	6.581	97	198874	14.615	ppbv		98
48)	Dibromochloromethane	7.390	129	362887	15.105	ppbv		98
49)	Bromoform	9.484	173	312282	14.865	ppbv		99
50)	4-Methyl-2-Pentanone	5.749	43	563658	12.889	ppbv		99
51)	2-Hexanone	7.435	43	467001	11.834	ppbv	#	98
52)	Tetrachloroethene	8.225	164	180631	13.046	ppbv		97
53)	Toluene	6.933	91	619420	14.411	ppbv		99
54)	1,2-Dibromoethane	7.652	107	280071	14.442	ppbv		92
56)	1,1,1,2-Tetrachloroethane	8.927	131	268626	14.389	ppbv		97
57)	Chlorobenzene	8.921	112	454017	14.151	ppbv		97
58)	Ethyl Benzene	9.354	91	874424	14.308	ppbv		100
59)	m/p-Xylene	9.552	91	1388086m	28.109	ppbv		
60)	o-Xylene	9.963	91	689246	13.902	ppbv		99
61)	Styrene	9.872	104	339508	14.347	ppbv		99
62)	Isopropylbenzene	10.539	105	1018968	13.999	ppbv		100
63)	1,1,2,2-Tetrachloroethane	9.963	83	412898	12.816	ppbv		100
64)	n-propylbenzene	10.989	120	260812	14.255	ppbv		94
65)	tert-Butylbenzene	11.533	119	899720	13.449	ppbv		93
66)	Benzyl Chloride	11.617	91	96016	13.061	ppbv		96
67)	sec-Butylbenzene	11.769	105	1253263	13.468	ppbv		100
69)	p-Isopropyltoluene	11.928	119	1081850	13.382	ppbv		99
70)	n-Butylbenzene	12.284	91	1117042	13.266	ppbv		100
71)	2-Chlorotoluene	10.902	91	806728	14.131	ppbv		100
72)	4-Ethyltoluene	11.125	105	848077	13.992	ppbv		99
73)	1,3,5-Trimethylbenzene	11.206	105	726558	13.578	ppbv		99
74)	1,2,4-Trimethylbenzene	11.539	105	785772	12.572	ppbv		97
75)	1,3-Dichlorobenzene	11.610	146	444086	13.670	ppbv		99
76)	1,4-Dichlorobenzene	11.672	146	450662	13.802	ppbv		98
77)	1,2-Dichlorobenzene	11.947	146	427372	13.529	ppbv		99
78)	Hexachloro-1,3-Butadiene	13.883	225	404441	12.679	ppbv		100
79)	Naphthalene	13.514	128	944085	12.632	ppbv		98
80)	Naphthalene,2-methyl-	14.459	142	540339	12.686	ppbv		99
81)	1,2,4-Trichlorobenzene	13.442	180	429982	13.398	ppbv		98

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

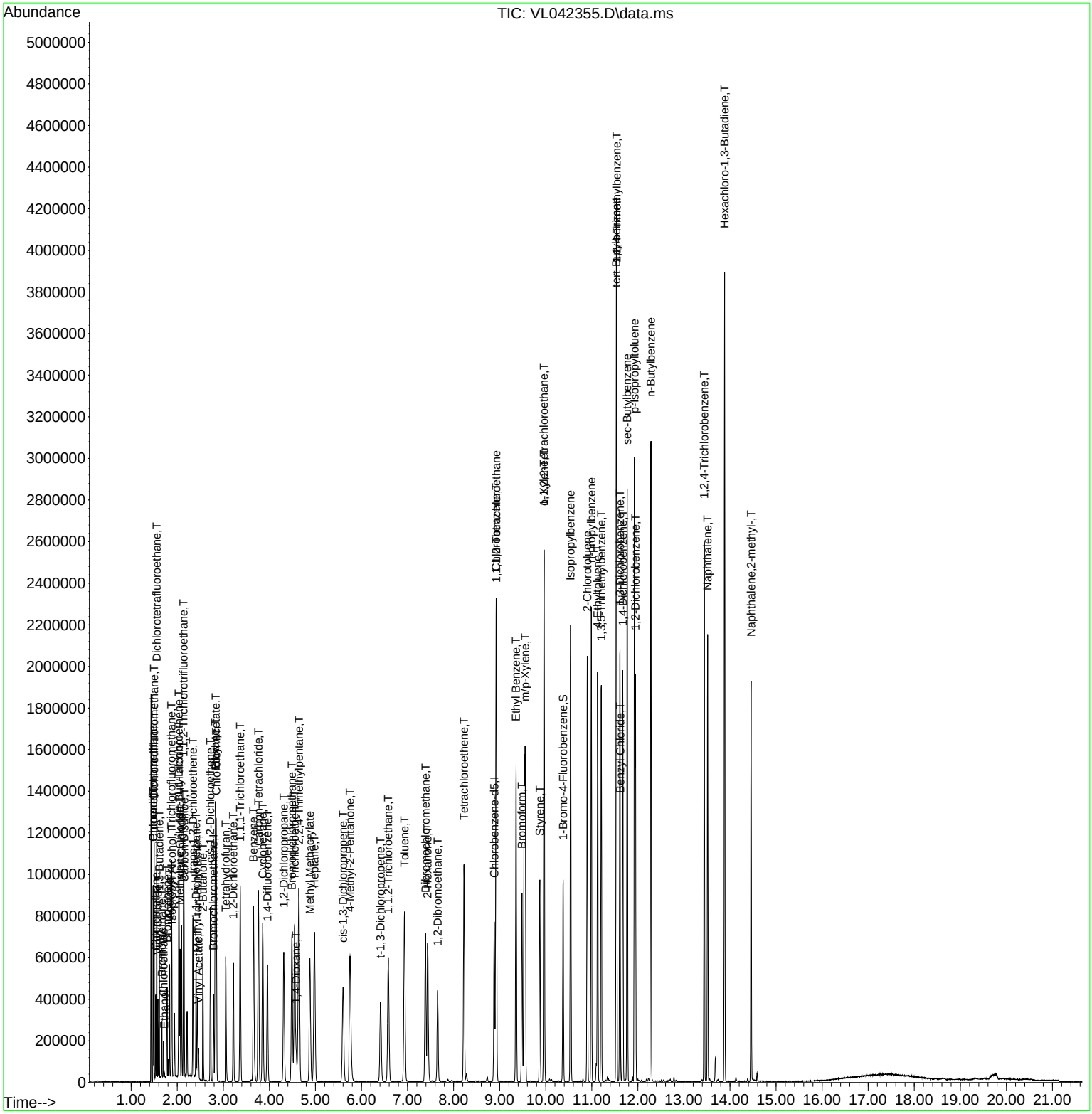
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Data File : VL042355.D
Acq On : 17 Apr 2025 12:54
Operator : SY/MD
Sample : VSTDICC015
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

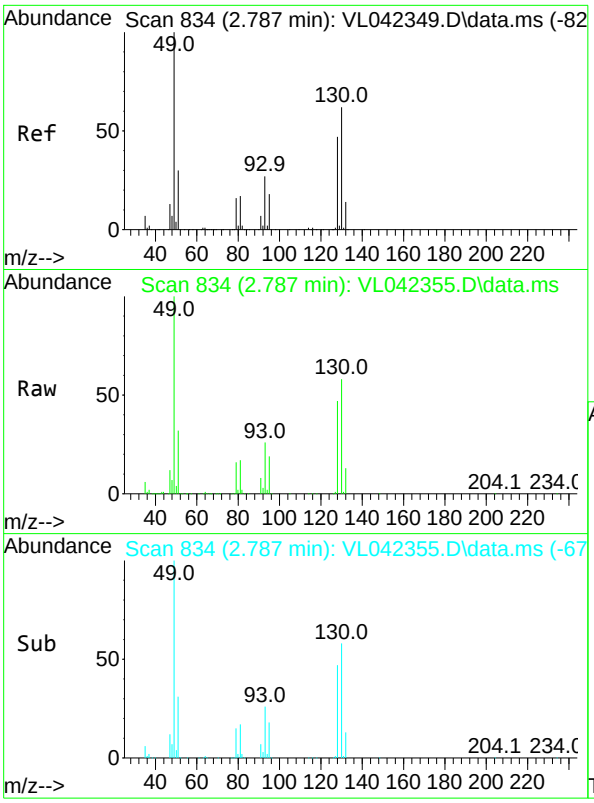
Quant Time: Apr 18 01:31:10 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Apr 18 01:24:29 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

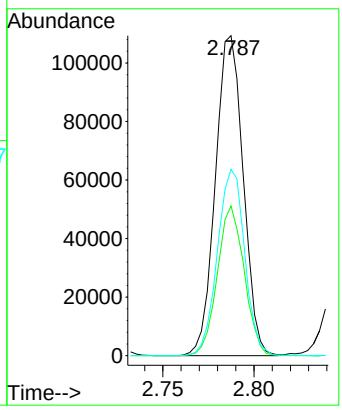




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 8
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 49 Resp: 11607

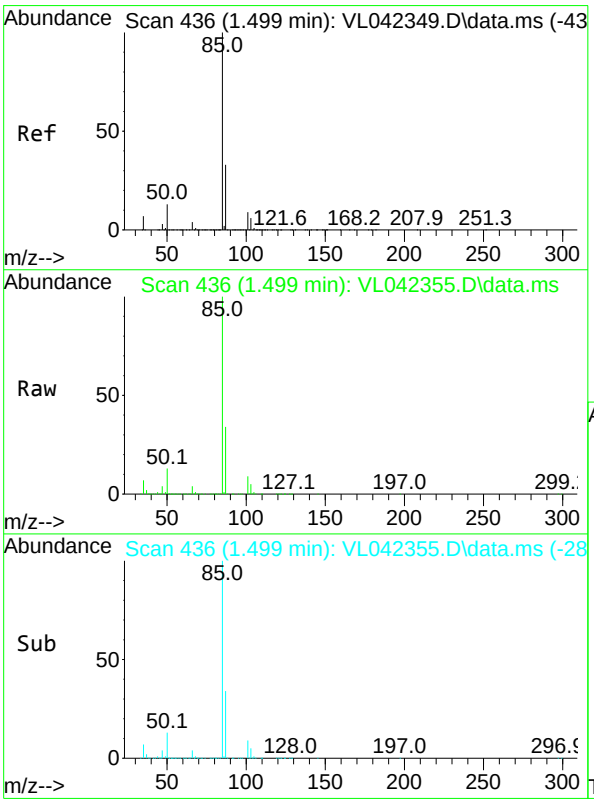
Ion	Ratio	Lower	Upper
49	100		
128	45.1	22.8	68.4
130	57.1	29.3	88.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

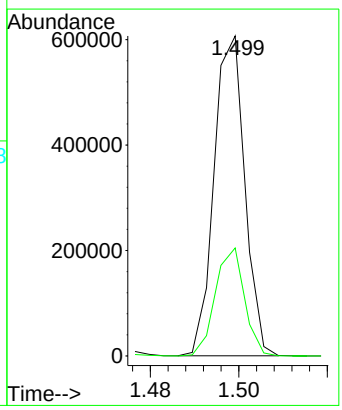
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

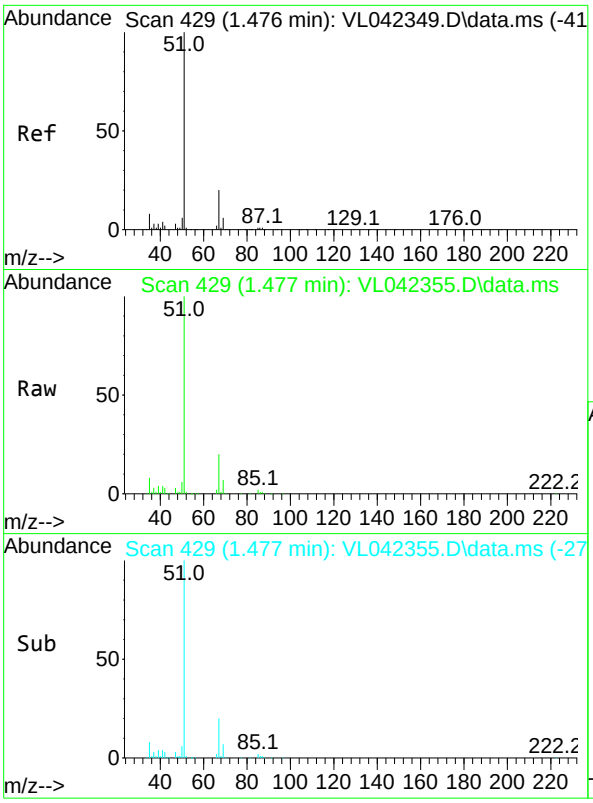


#2
Dichlorodifluoromethane
Concen: 14.277 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 85 Resp: 292784

Ion	Ratio	Lower	Upper
85	100		
87	33.8	26.6	39.8

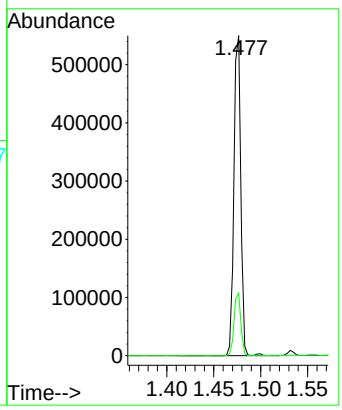




#3
Chlorodifluoromethane
Concen: 14.341 ppbv
RT: 1.477 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 51 Resp: 28004

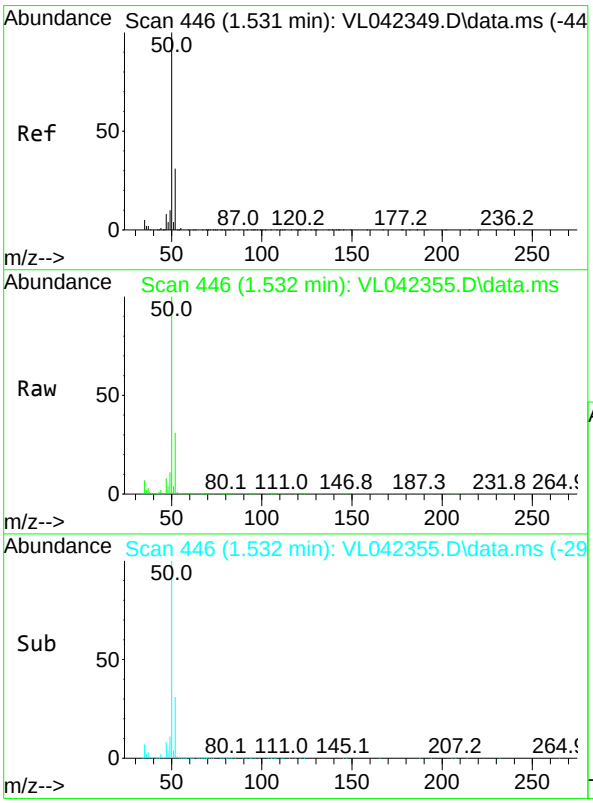
Ion	Ratio	Lower	Upper
51	100		
67	19.5	16.2	24.4



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

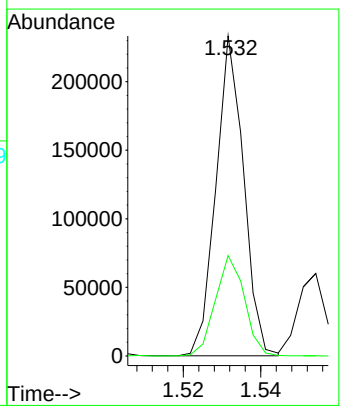
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

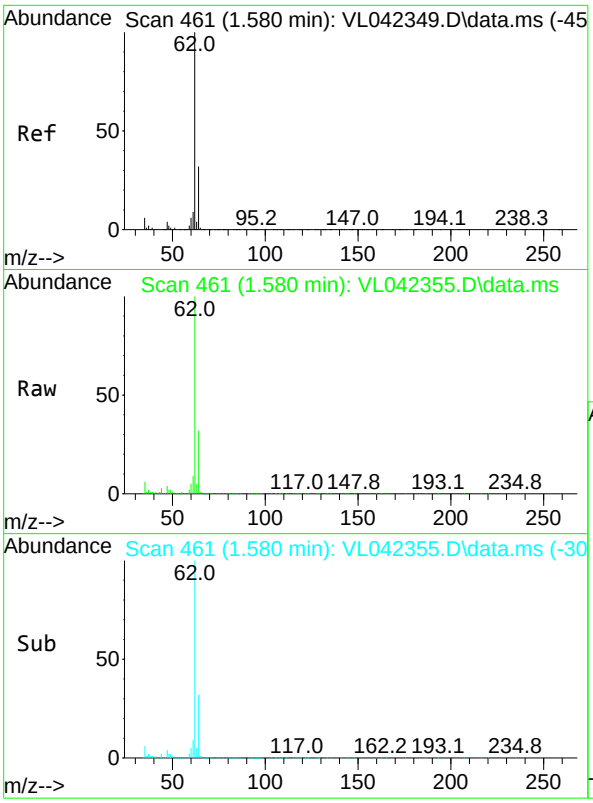


#4
Chloromethane
Concen: 14.266 ppbv
RT: 1.532 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 50 Resp: 115775

Ion	Ratio	Lower	Upper
50	100		
52	31.3	24.7	37.1

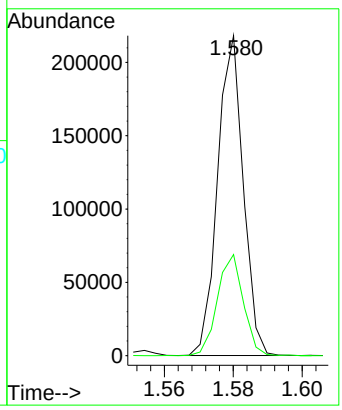




#5
Vinyl Chloride
Concen: 12.752 ppbv
RT: 1.580 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 62 Resp: 11265

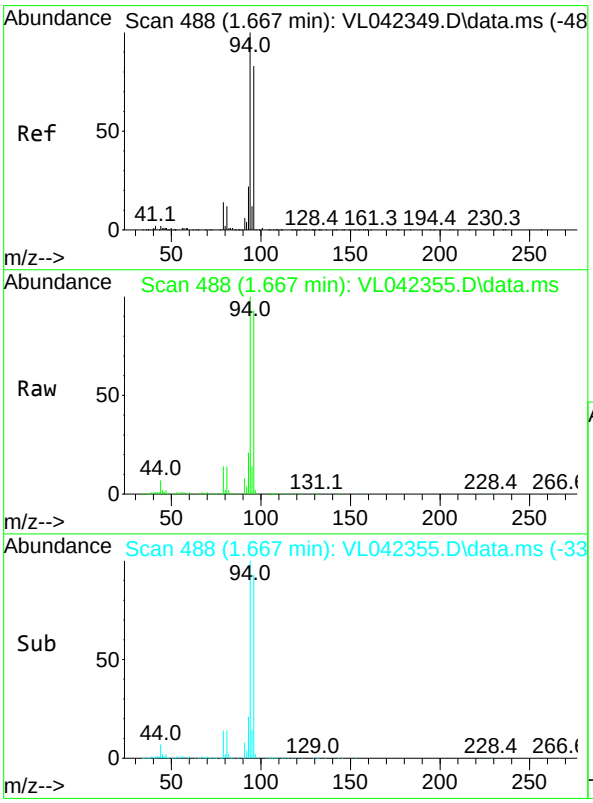
Ion	Ratio	Lower	Upper
62	100		
64	31.6	25.4	38.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

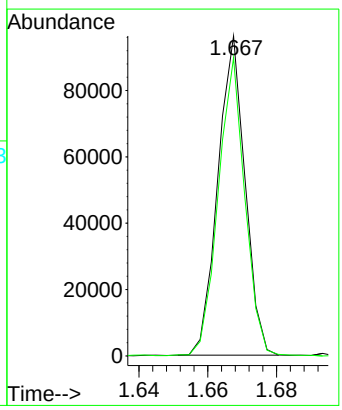
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

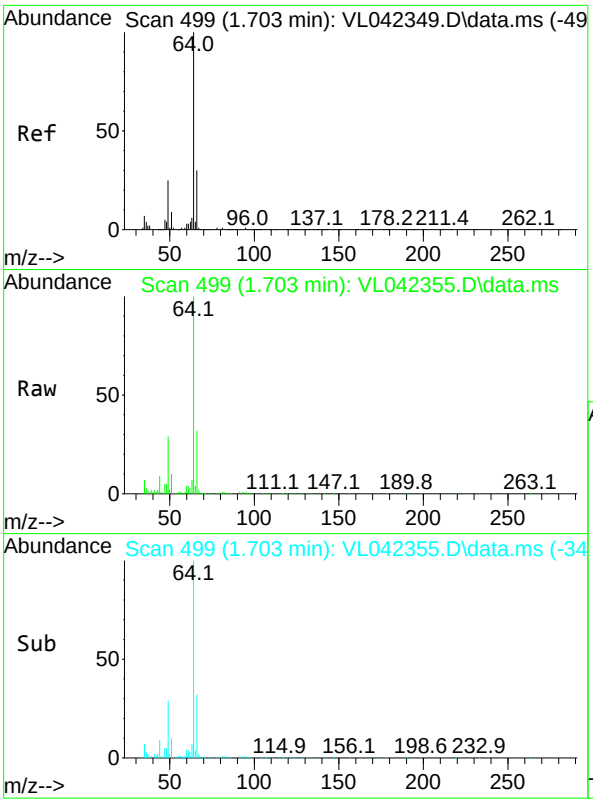


#6
Bromomethane
Concen: 13.800 ppbv
RT: 1.667 min Scan# 488
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 94 Resp: 52805

Ion	Ratio	Lower	Upper
94	100		
96	93.1	66.2	99.2

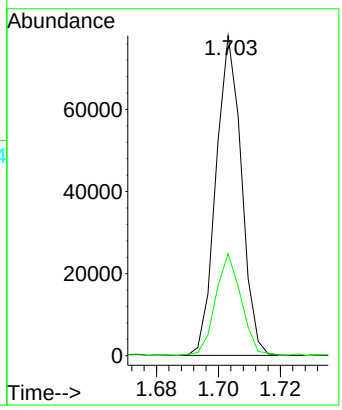




#7
Chloroethane
Concen: 13.881 ppbv
RT: 1.703 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 64 Resp: 4434

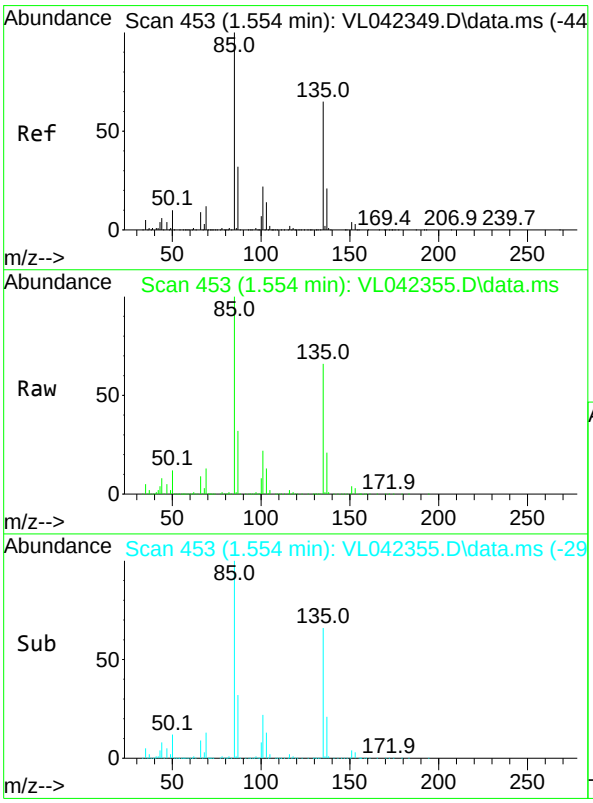
Ion	Ratio	Lower	Upper
64	100		
66	31.9	24.6	37.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

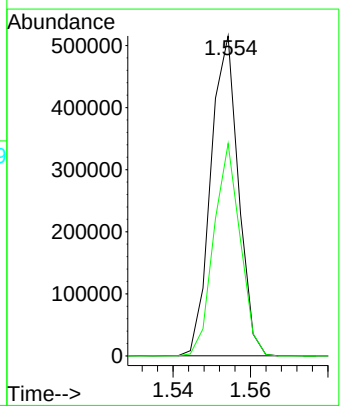
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

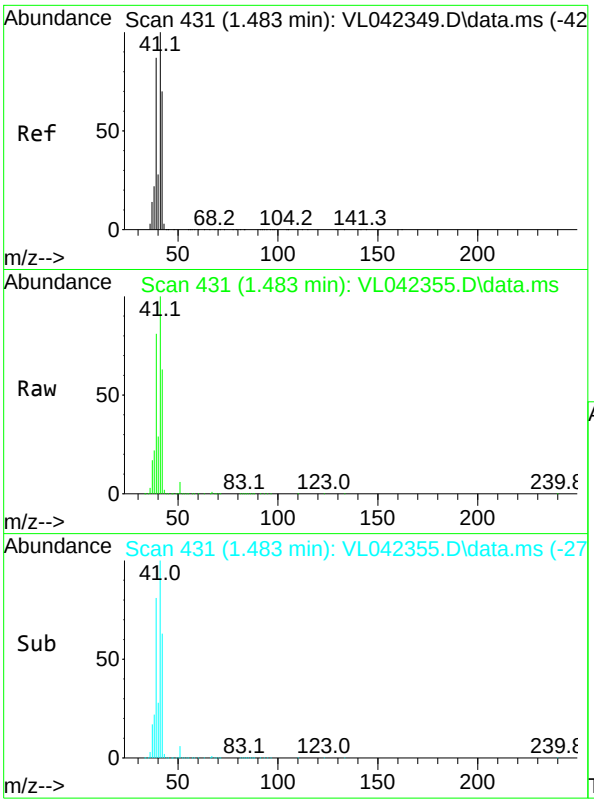


#8
Dichlorotetrafluoroethane
Concen: 14.484 ppbv
RT: 1.554 min Scan# 453
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 85 Resp: 255029

Ion	Ratio	Lower	Upper
85	100		
135	63.6	52.2	78.2

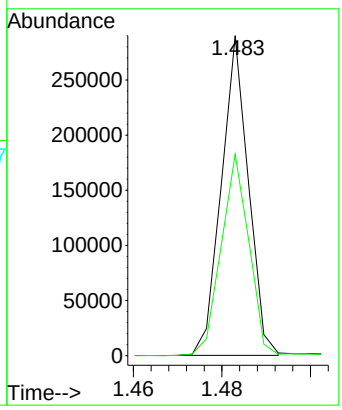




#9
Propene
Concen: 13.842 ppbv
RT: 1.483 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 41 Resp: 12310

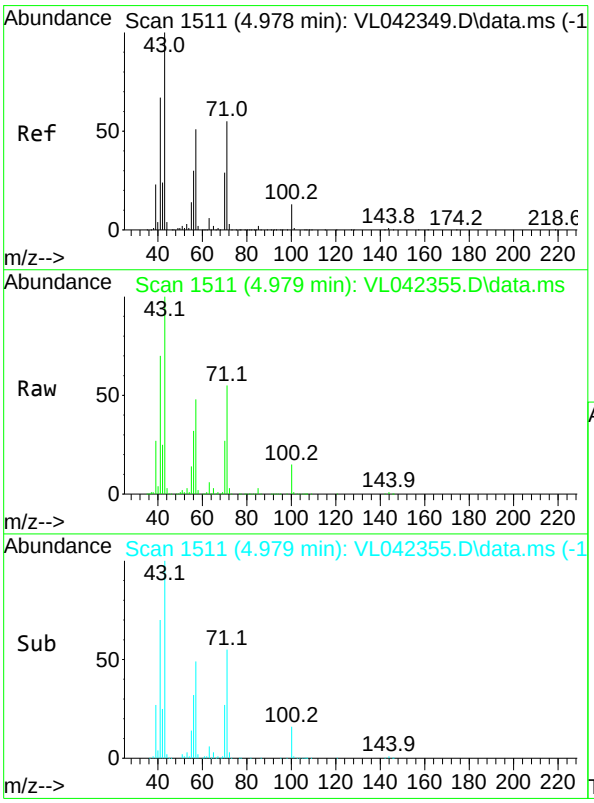
Ion	Ratio	Lower	Upper
41	100		
42	66.0	56.2	84.4



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

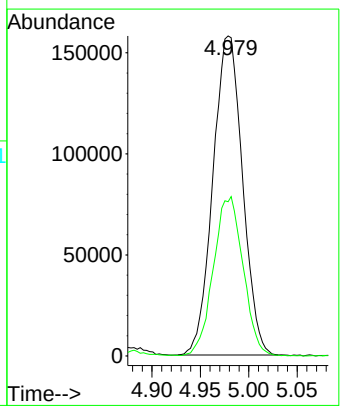
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

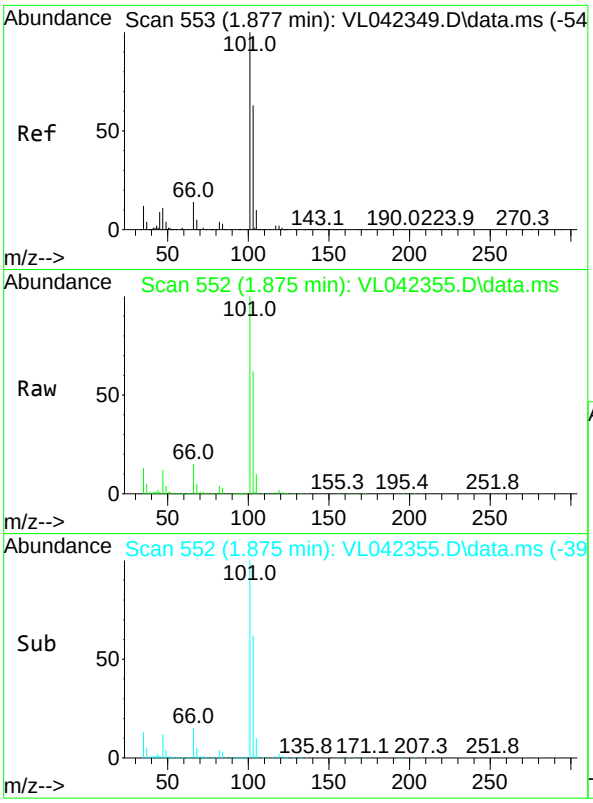


#10
Heptane
Concen: 14.047 ppbv
RT: 4.979 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 43 Resp: 336134

Ion	Ratio	Lower	Upper
43	100		
57	50.0	39.9	59.9





#11
Trichlorofluoromethane
Concen: 14.258 ppbv
RT: 1.875 min Scan# 5
Delta R.T. -0.003 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

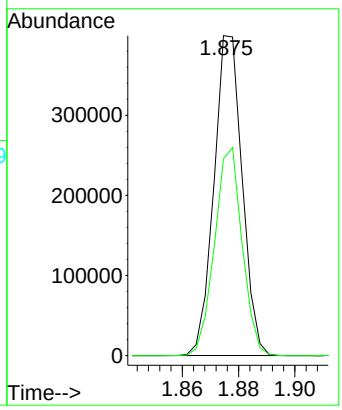
Tgt Ion:101 Resp: 27805

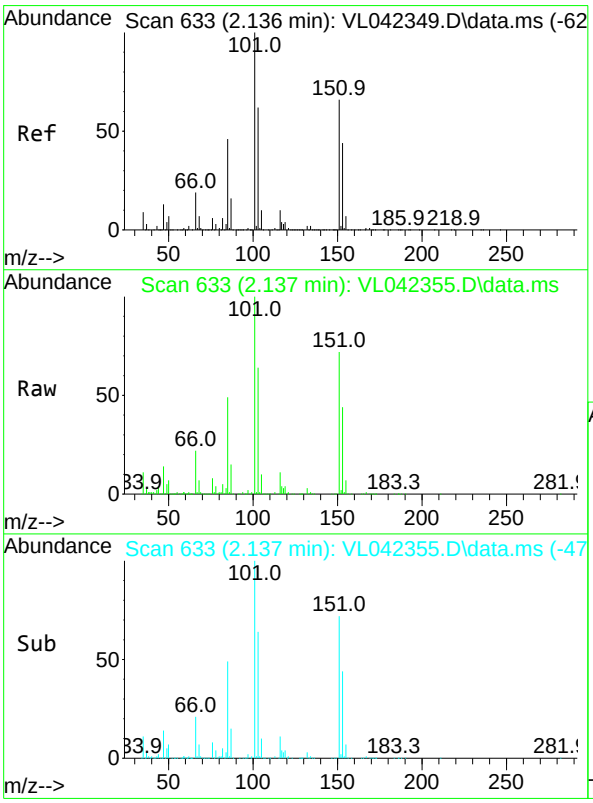
Ion	Ratio	Lower	Upper
101	100		
103	61.6	50.1	75.1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

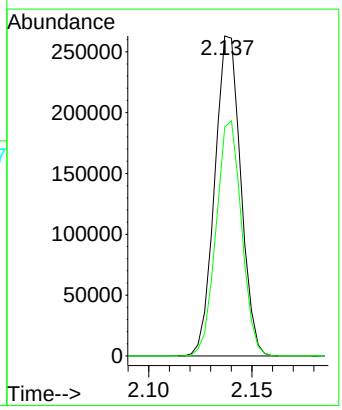


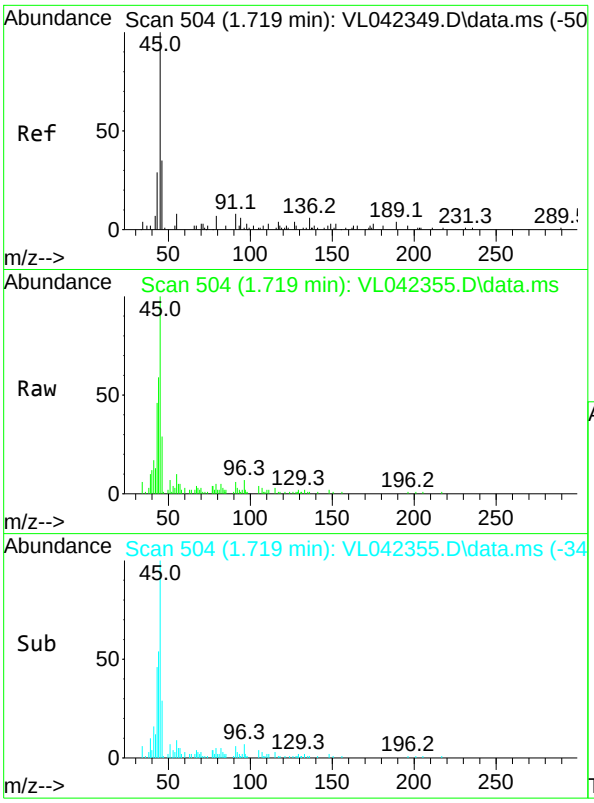


#12
1,1,2-Trichlorotrifluoroethane
Concen: 14.447 ppbv
RT: 2.137 min Scan# 633
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion:101 Resp: 230366

Ion	Ratio	Lower	Upper
101	100		
151	71.8	57.0	85.6

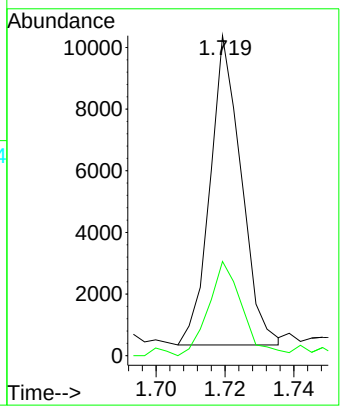




#13
Ethanol
Concen: 8.702 ppbv
RT: 1.719 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 45 Resp: 632

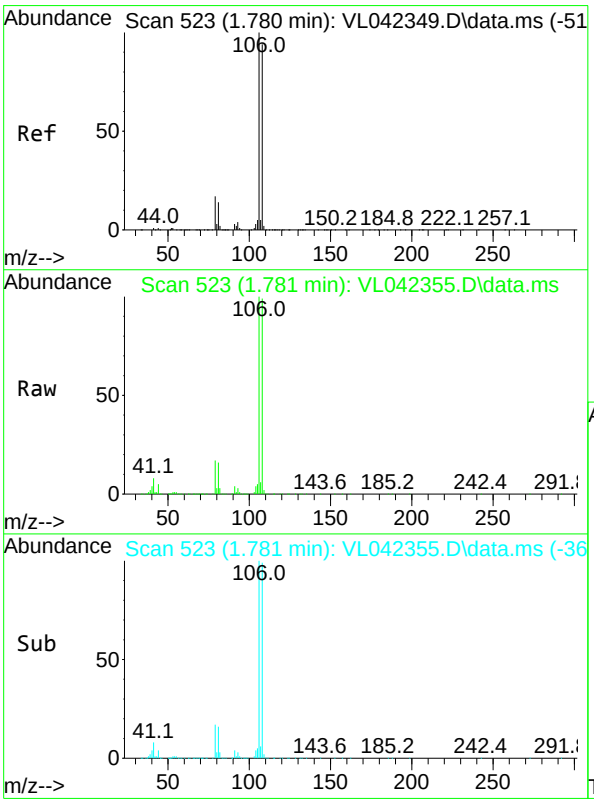
Ion	Ratio	Lower	Upper
45	100		
46	37.6	21.9	87.7



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
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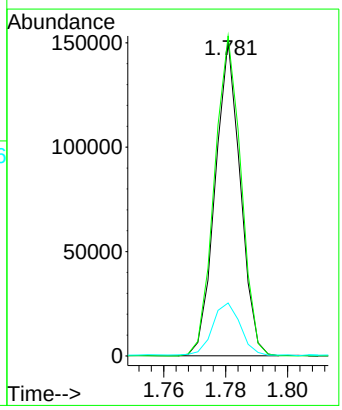
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

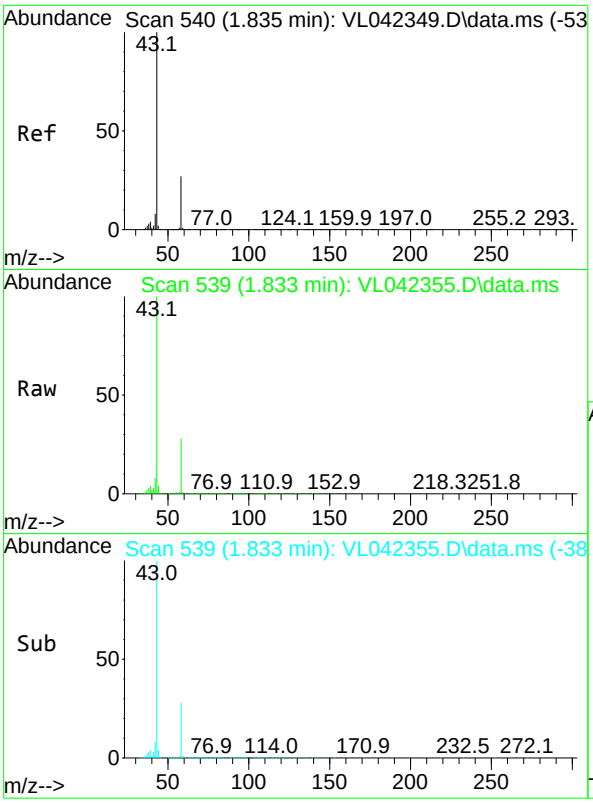


#14
Bromoethene
Concen: 14.117 ppbv
RT: 1.781 min Scan# 523
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion:108 Resp: 84851

Ion	Ratio	Lower	Upper
108	100		
106	107.5	85.9	128.9
79	19.3	13.9	20.9

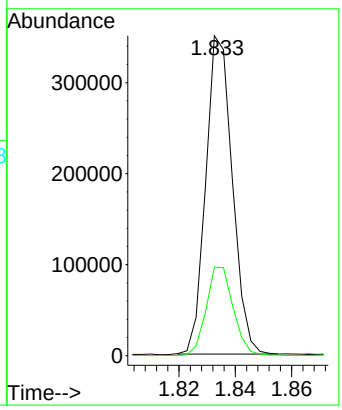




#15
Acetone
Concen: 12.056 ppbv
RT: 1.833 min Scan# 5
Delta R.T. -0.003 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 43 Resp: 22908

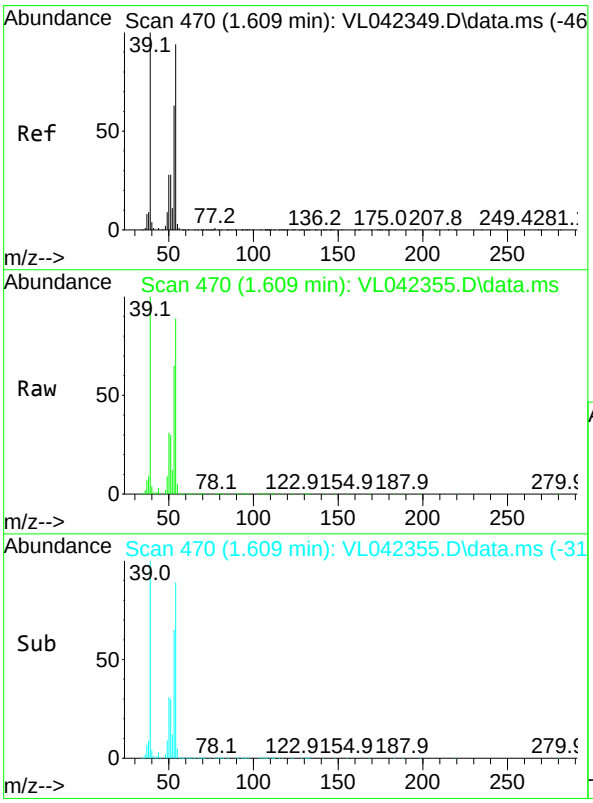
Ion	Ratio	Lower	Upper
43	100		
58	28.4	22.4	33.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
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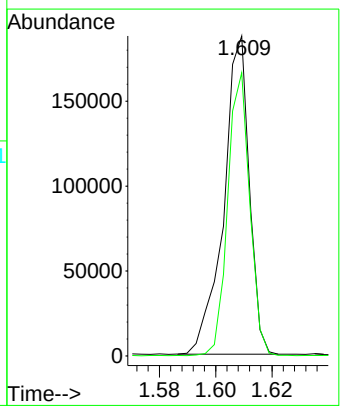
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

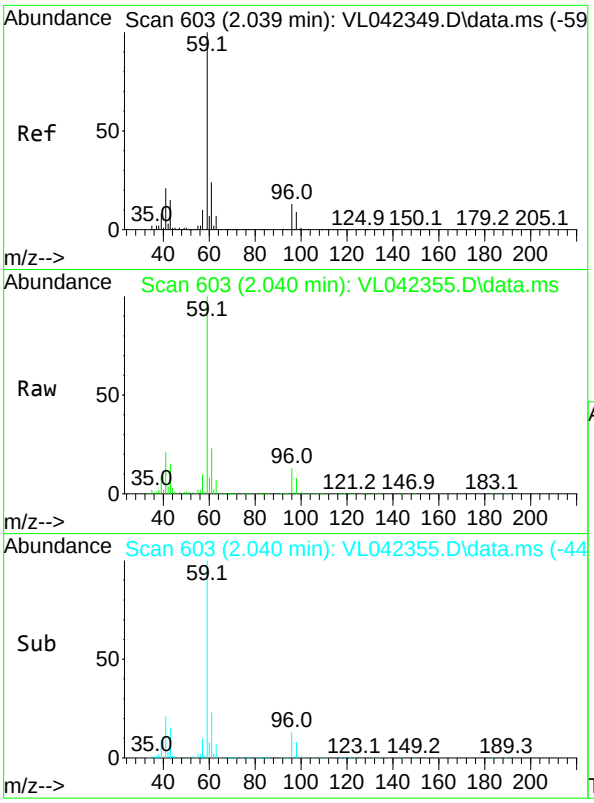


#16
1,3-Butadiene
Concen: 13.224 ppbv
RT: 1.609 min Scan# 470
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 39 Resp: 117997

Ion	Ratio	Lower	Upper
39	100		
54	77.2	64.9	97.3

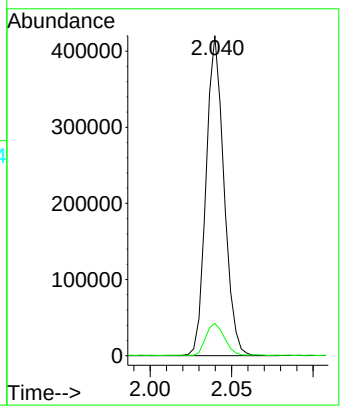




#17
tert-Butyl alcohol
Concen: 13.615 ppbv
RT: 2.040 min Scan# 6
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 59 Resp: 32060

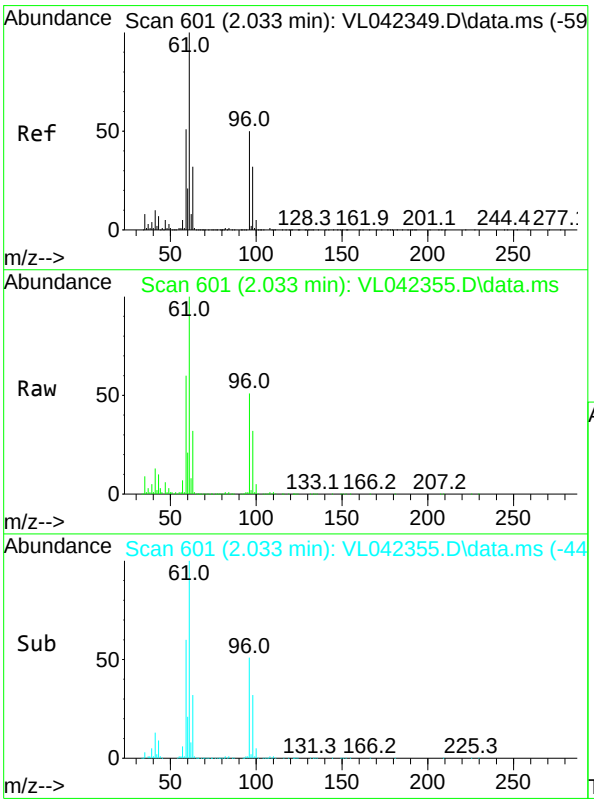
Ion	Ratio	Lower	Upper
59	100		
57	10.6	8.7	13.1



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
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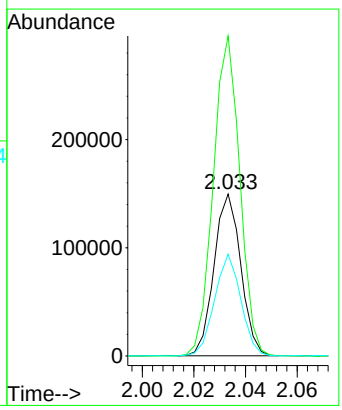
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

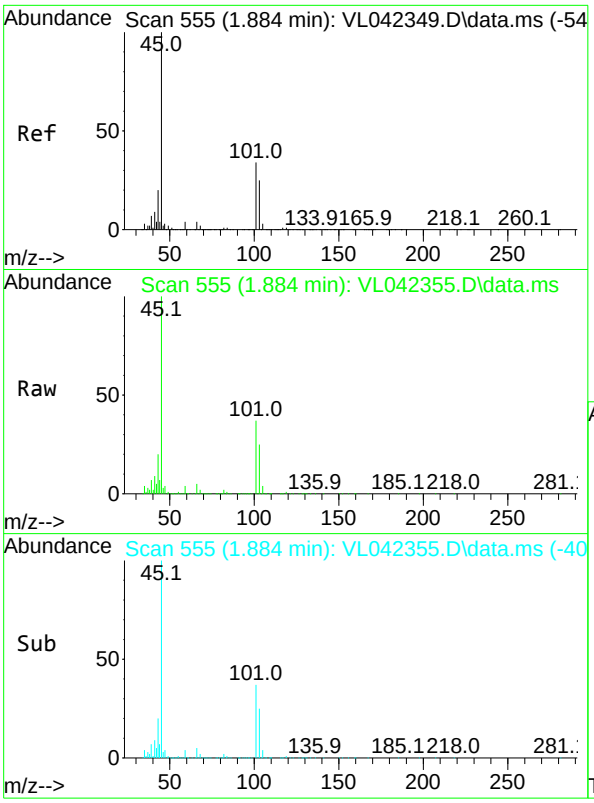


#18
1,1-Dichloroethene
Concen: 14.045 ppbv
RT: 2.033 min Scan# 601
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 96 Resp: 107666

Ion	Ratio	Lower	Upper
96	100		
61	197.8	160.2	240.2
98	62.9	51.0	76.4

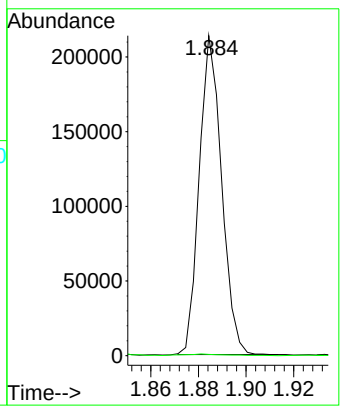




#19
Isopropyl Alcohol
Concen: 13.169 ppbv
RT: 1.884 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 45 Resp: 13900

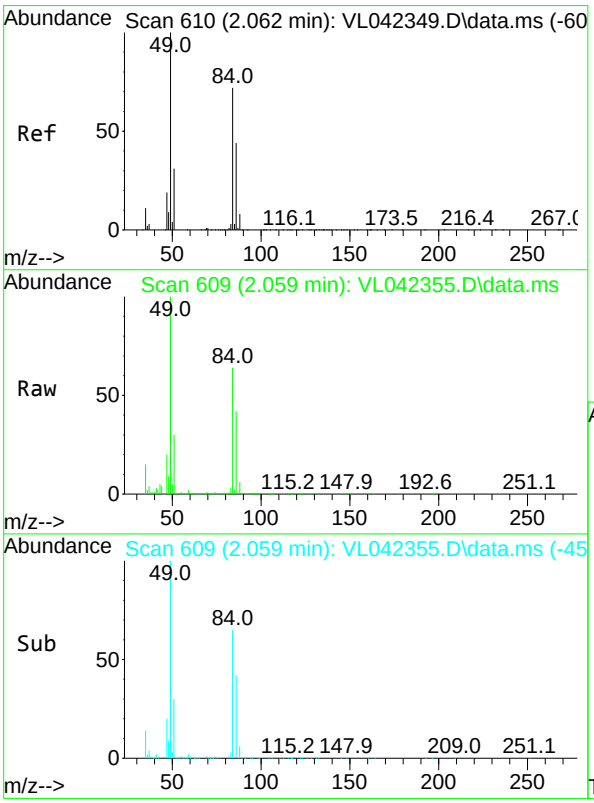
Ion	Ratio	Lower	Upper
45	100		
58	46.9	34.5	51.7



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
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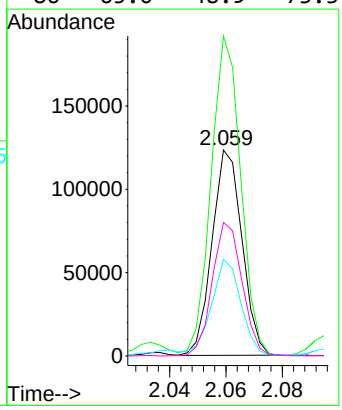
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

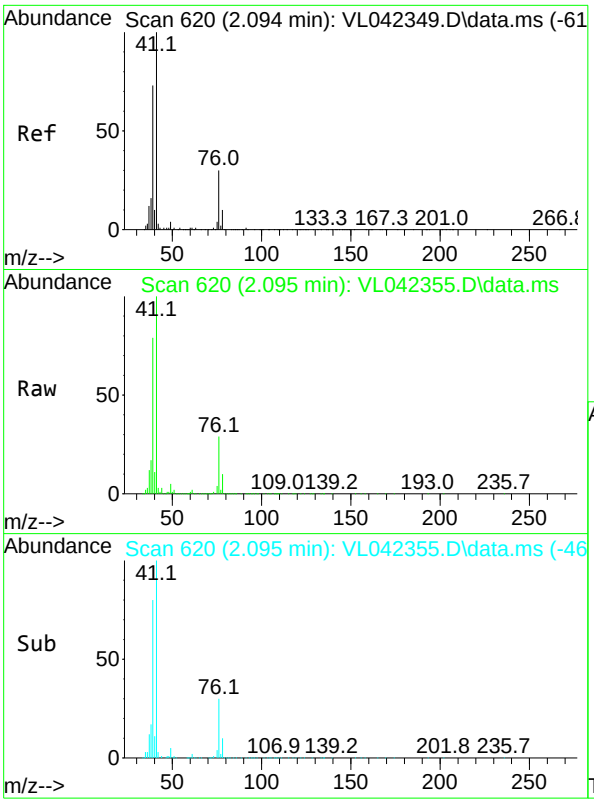


#20
Methylene Chloride
Concen: 12.241 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.003 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 84 Resp: 91093

Ion	Ratio	Lower	Upper
84	100		
49	155.7	111.6	167.4
51	46.8	35.1	52.7
86	65.0	48.9	73.3





#21
Allyl Chloride
Concen: 14.329 ppbv
RT: 2.095 min Scan# 6
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

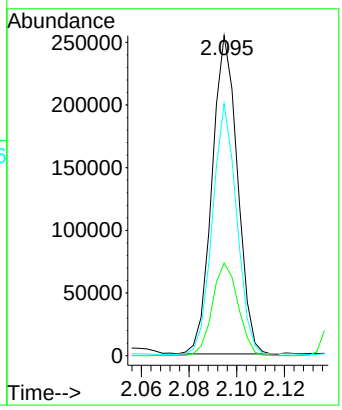
Tgt Ion: 41 Resp: 18799

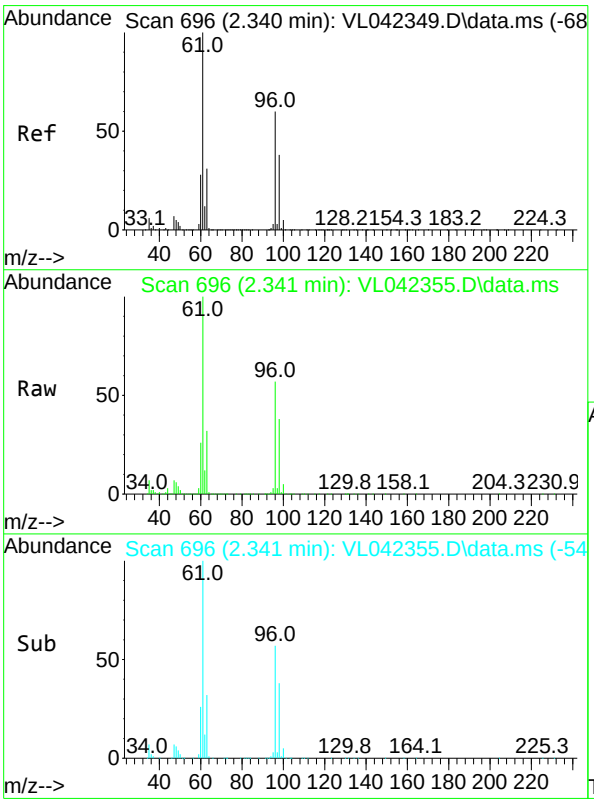
Ion	Ratio	Lower	Upper
41	100		
76	29.3	24.8	37.2
39	75.2	60.6	90.8

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

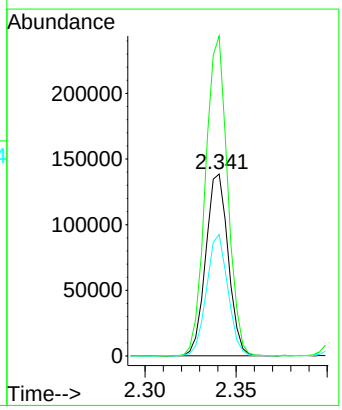


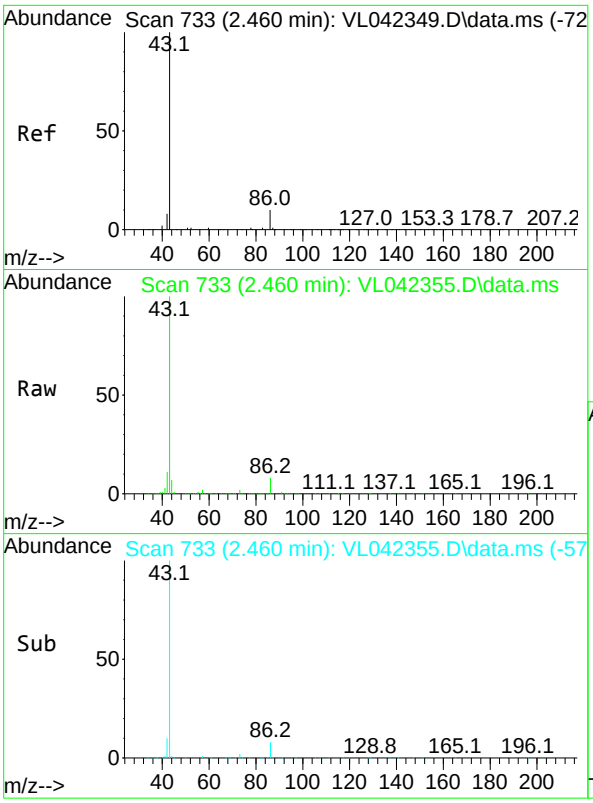


#22
trans-1,2-Dichloroethene
Concen: 13.970 ppbv
RT: 2.341 min Scan# 696
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 96 Resp: 118492

Ion	Ratio	Lower	Upper
96	100		
61	176.1	133.7	200.5
98	66.8	50.3	75.5

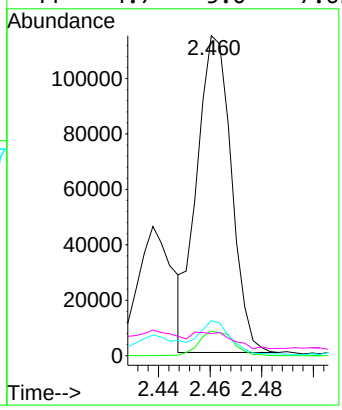




#23
Vinyl Acetate
Concen: 13.799 ppbv
RT: 2.460 min Scan# 7
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 43 Resp: 10613

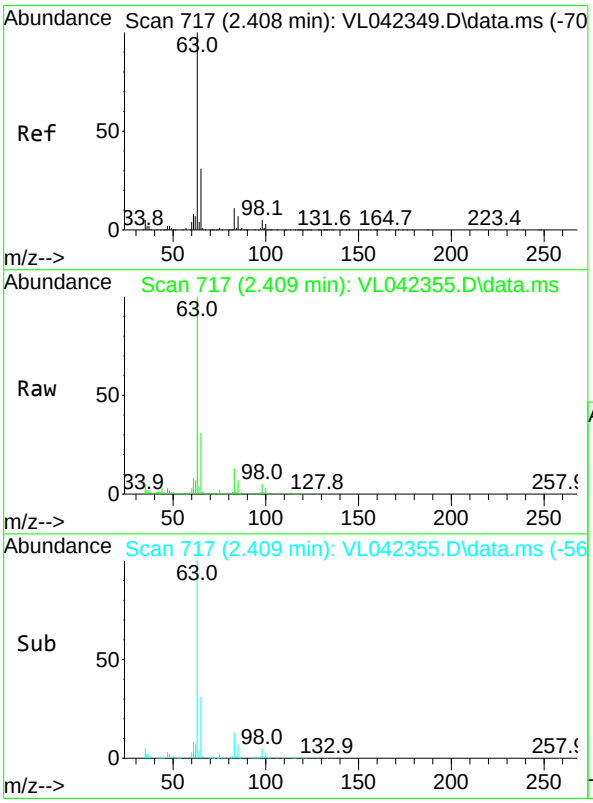
Ion	Ratio	Lower	Upper
43	100		
86	7.8	6.5	9.7
42	10.4	7.8	11.8
44	4.7	5.0	7.6#



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

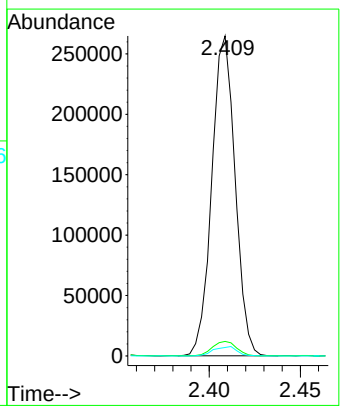
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

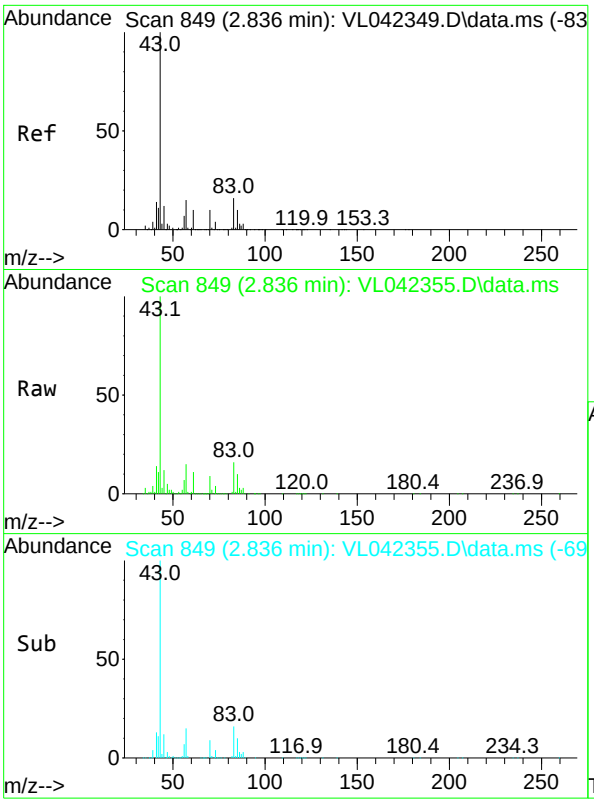


#24
1,1-Dichloroethane
Concen: 14.615 ppbv
RT: 2.409 min Scan# 717
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 63 Resp: 235466

Ion	Ratio	Lower	Upper
63	100		
98	4.5	2.3	6.8
100	2.6	1.6	4.8

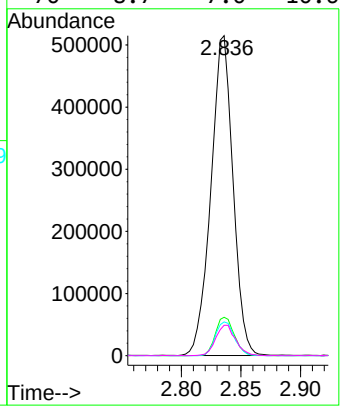




#25
Ethyl Acetate
Concen: 14.166 ppbv
RT: 2.836 min Scan# 84
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 43 Resp: 66364

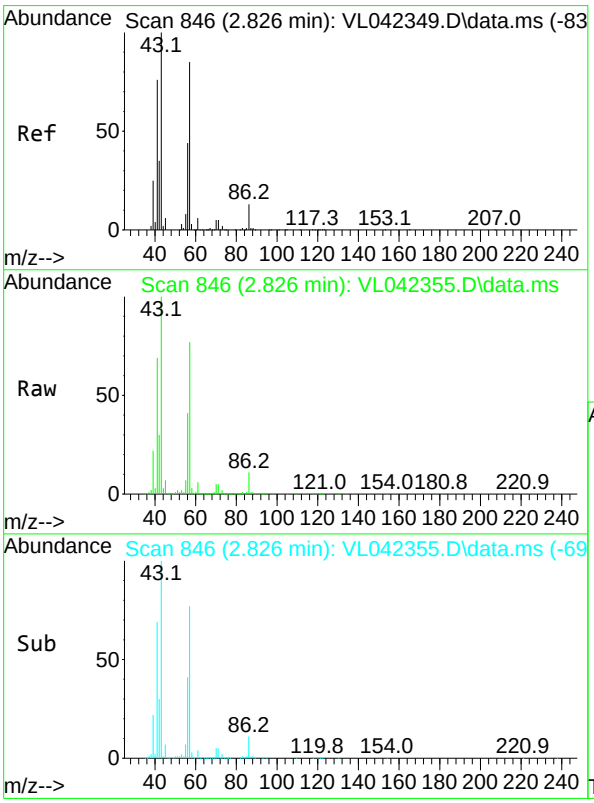
Ion	Ratio	Lower	Upper
43	100		
45	10.4	8.3	12.5
61	9.2	7.3	10.9
70	8.7	7.0	10.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

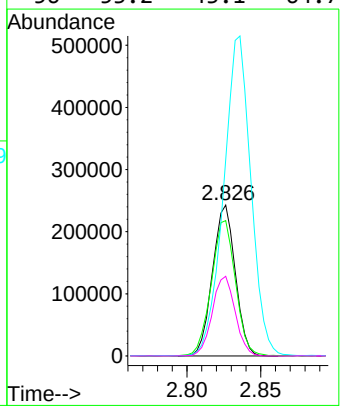
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

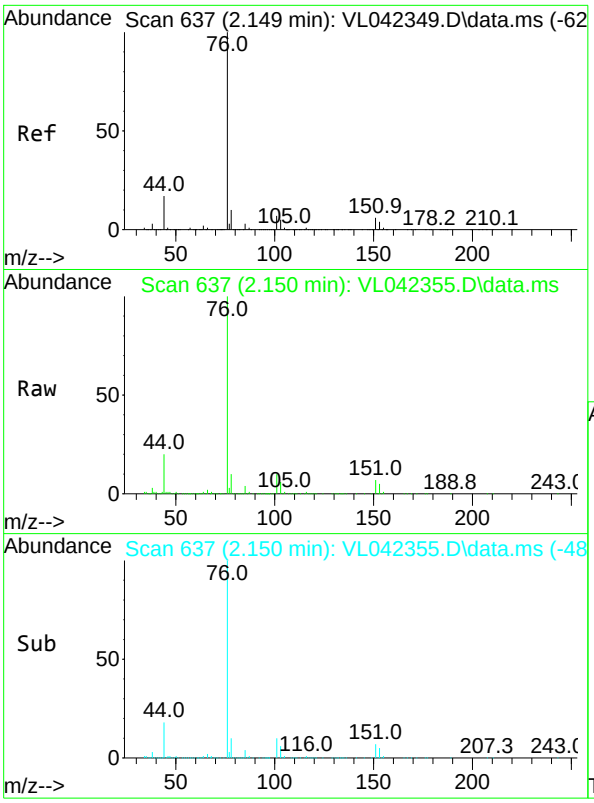


#26
Hexane
Concen: 13.765 ppbv
RT: 2.826 min Scan# 846
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 57 Resp: 260975

Ion	Ratio	Lower	Upper
57	100		
41	95.3	77.9	116.9
43	254.5	208.4	312.6
56	53.2	43.1	64.7

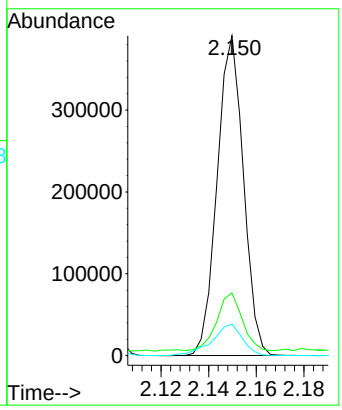




#27
Carbon Disulfide
Concen: 14.734 ppbv
RT: 2.150 min Scan# 6
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 76 Resp: 29909

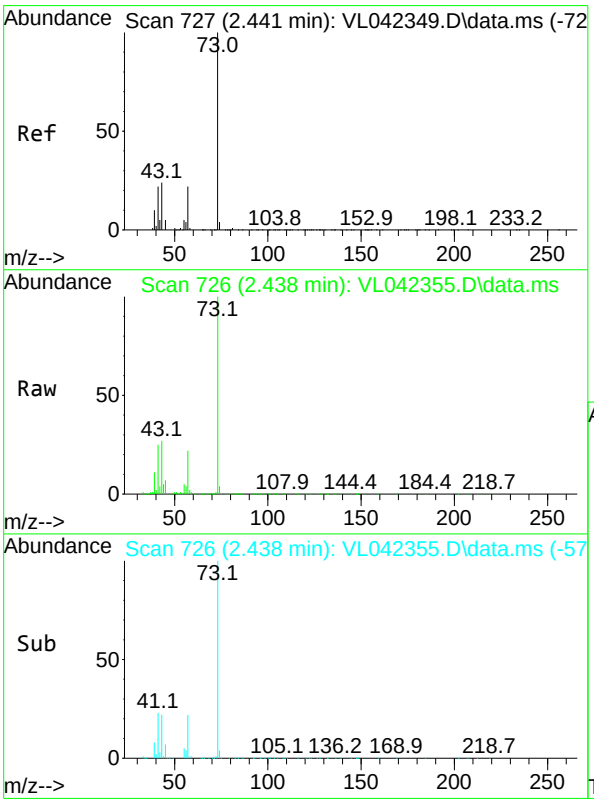
Ion	Ratio	Lower	Upper
76	100		
44	17.3	15.5	23.3
78	11.4	9.3	13.9



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

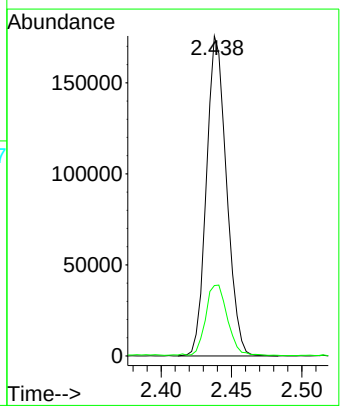
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

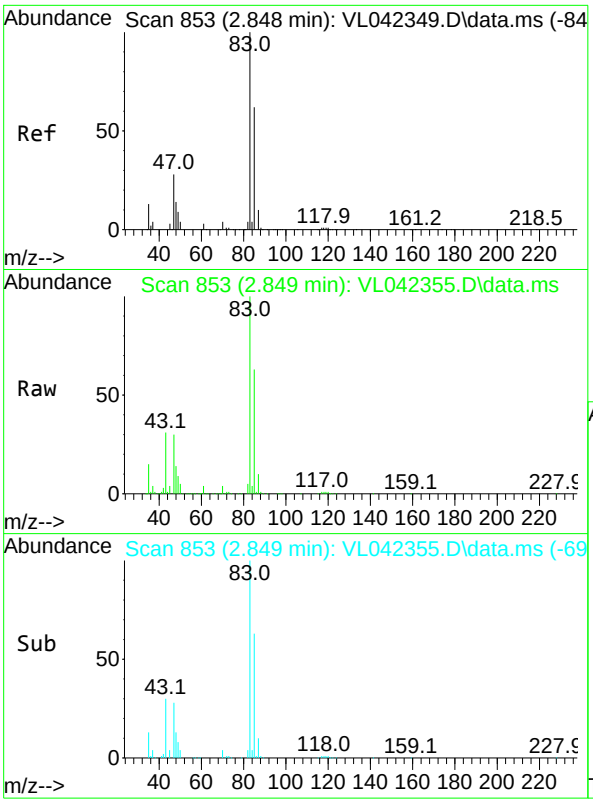


#28
Methyl tert-Butyl Ether
Concen: 14.076 ppbv
RT: 2.438 min Scan# 726
Delta R.T. -0.003 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 73 Resp: 174855

Ion	Ratio	Lower	Upper
73	100		
57	24.3	21.3	31.9

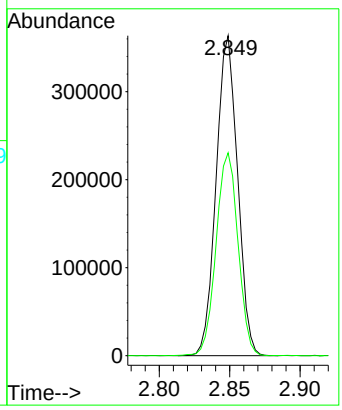




#29
Chloroform
Concen: 14.393 ppbv
RT: 2.849 min Scan# 8
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 83 Resp: 38568

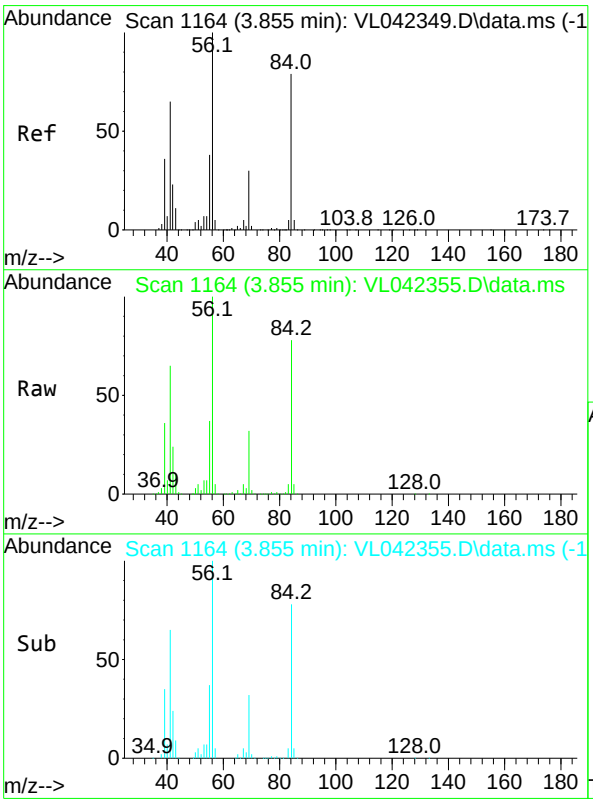
Ion	Ratio	Lower	Upper
83	100		
85	63.4	50.0	75.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
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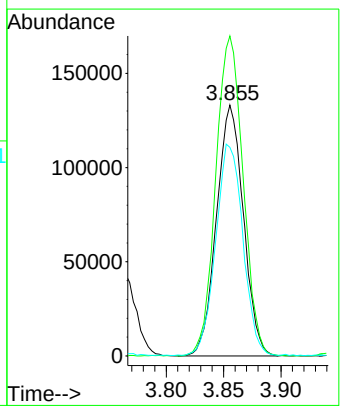
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

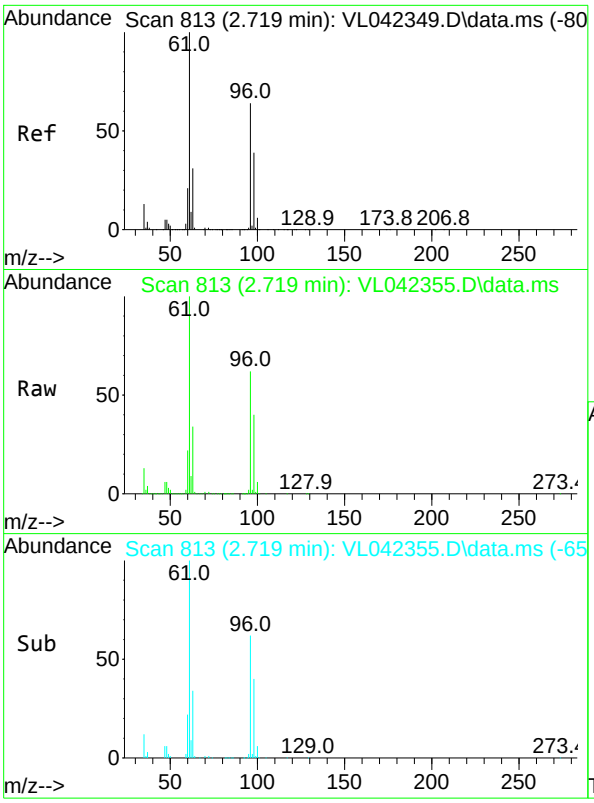


#30
Cyclohexane
Concen: 14.238 ppbv
RT: 3.855 min Scan# 1164
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 84 Resp: 217375

Ion	Ratio	Lower	Upper
84	100		
56	129.4	101.0	151.4
41	85.3	67.4	101.0

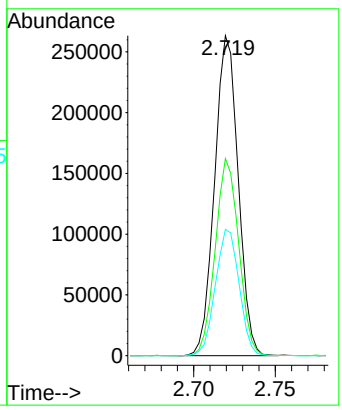




#31
cis-1,2-Dichloroethene
Concen: 14.700 ppbv
RT: 2.719 min Scan# 8
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 61 Resp: 26497

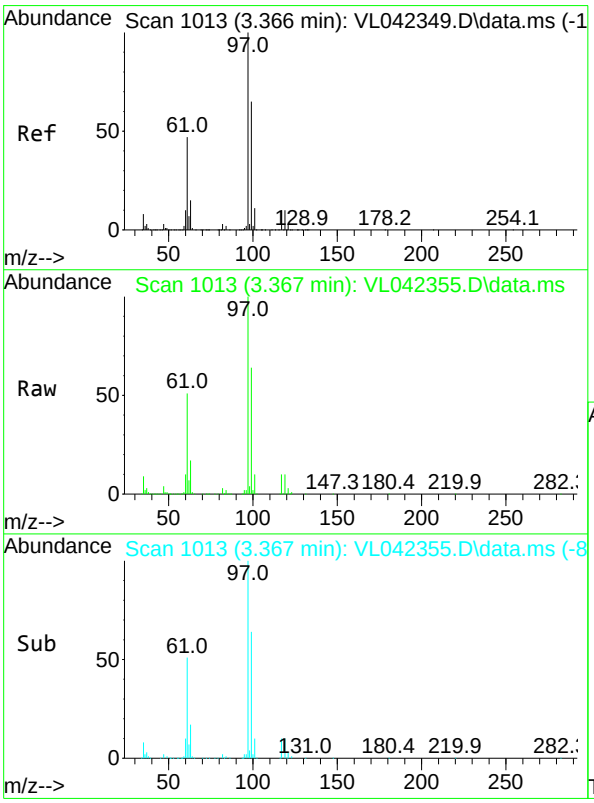
Ion	Ratio	Lower	Upper
61	100		
96	61.6	50.8	76.2
98	39.5	30.9	46.3



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

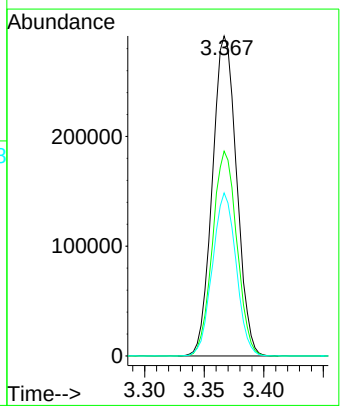
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

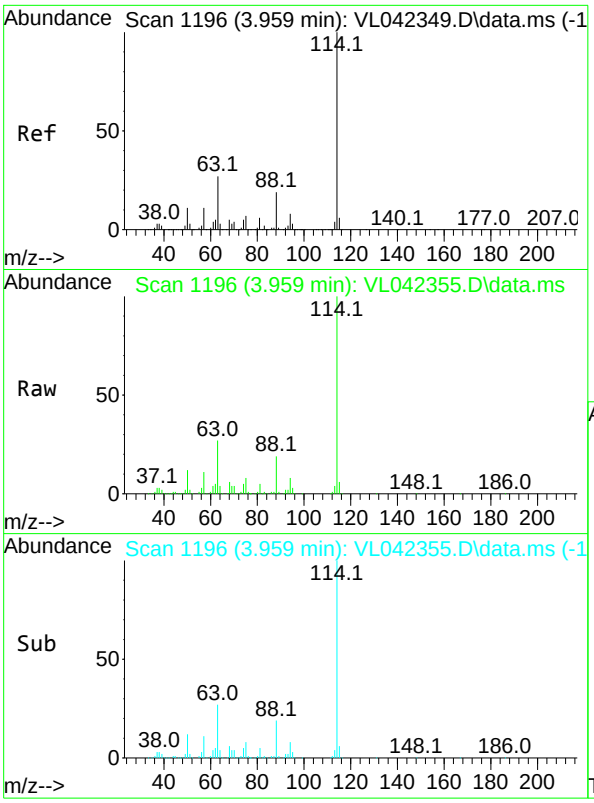


#32
1,1,1-Trichloroethane
Concen: 14.357 ppbv
RT: 3.367 min Scan# 1013
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 97 Resp: 412537

Ion	Ratio	Lower	Upper
97	100		
99	64.1	51.0	76.4
61	49.8	38.8	58.2

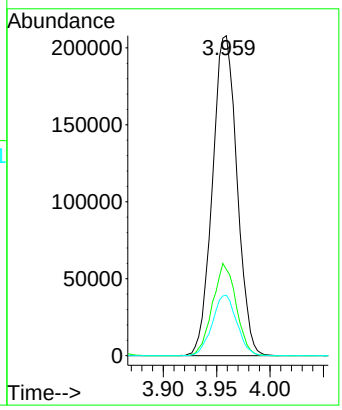




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.959 min Scan# 1
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion:114 Resp: 33208

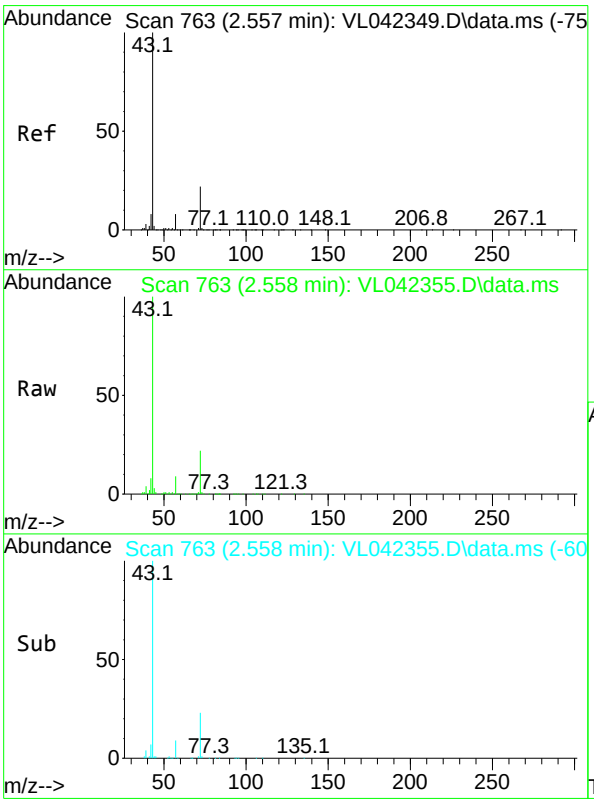
Ion	Ratio	Lower	Upper
114	100		
63	27.7	21.8	32.6
88	18.9	15.5	23.3



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

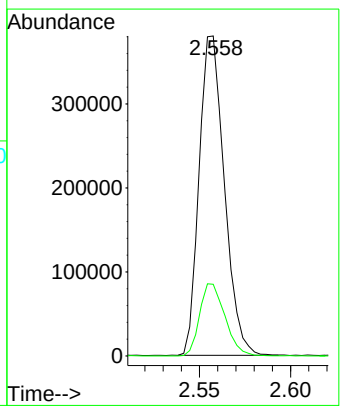
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

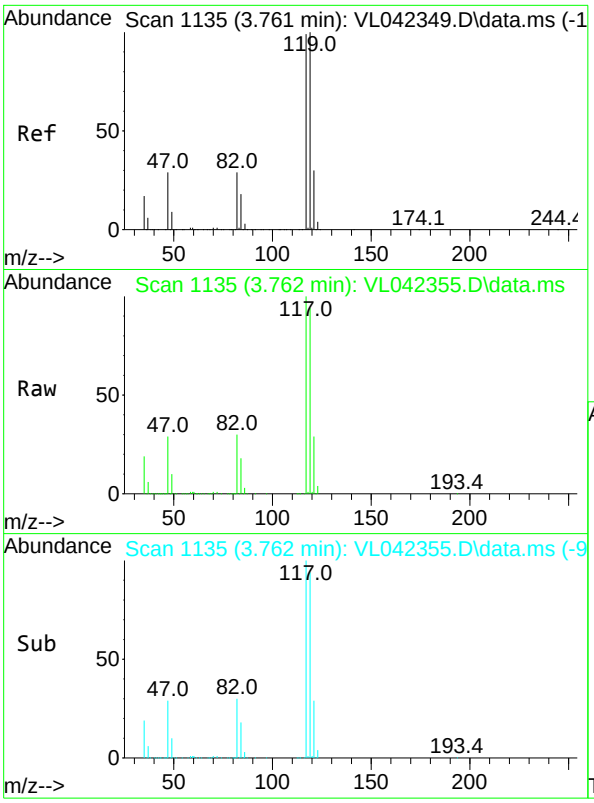


#34
2-Butanone
Concen: 13.986 ppbv
RT: 2.558 min Scan# 763
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 43 Resp: 367315

Ion	Ratio	Lower	Upper
43	100		
72	22.7	18.2	27.2

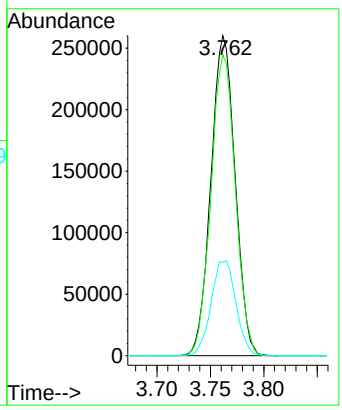




#35
Carbon Tetrachloride
Concen: 13.639 ppbv
RT: 3.762 min Scan# 1
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion:117 Resp: 40991

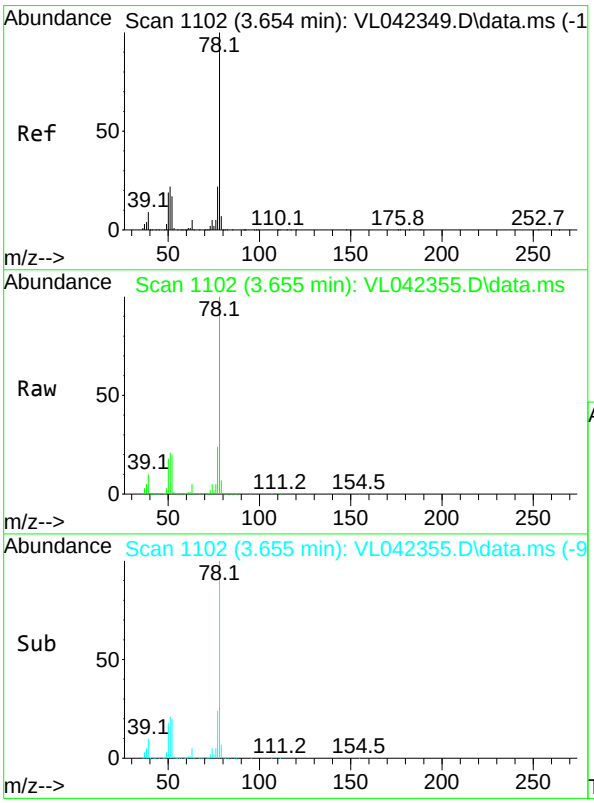
Ion	Ratio	Lower	Upper
117	100		
119	94.0	80.5	120.7
121	29.2	24.2	36.2



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

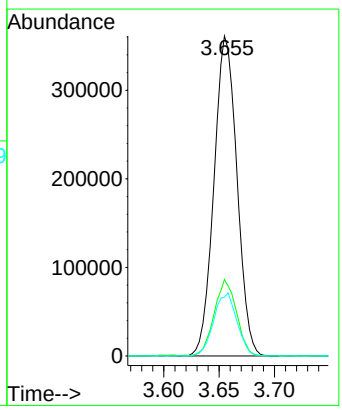
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

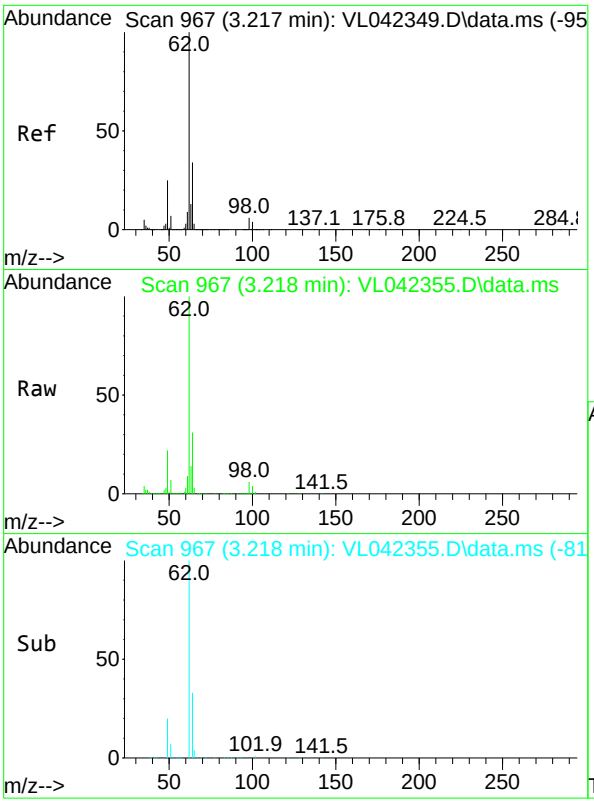


#36
Benzene
Concen: 14.578 ppbv
RT: 3.655 min Scan# 1102
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 78 Resp: 522156

Ion	Ratio	Lower	Upper
78	100		
77	23.8	17.4	26.0
50	18.3	15.5	23.3

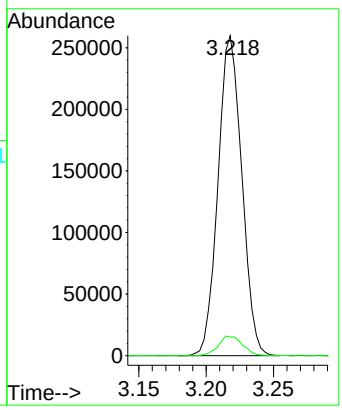




#37
1,2-Dichloroethane
Concen: 14.863 ppbv
RT: 3.218 min Scan# 9
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 62 Resp: 31951

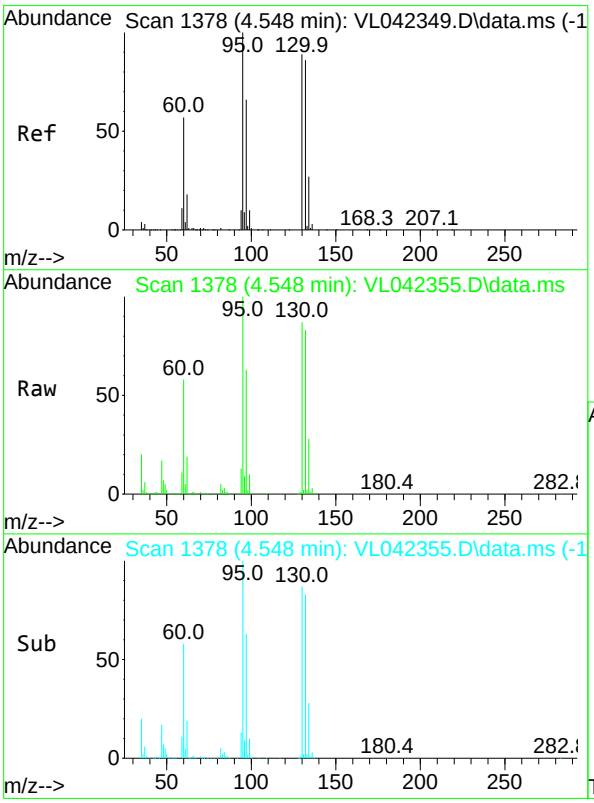
Ion	Ratio	Lower	Upper
62	100		
98	6.3	5.1	7.7



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

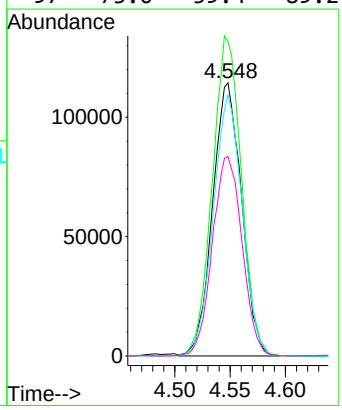
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

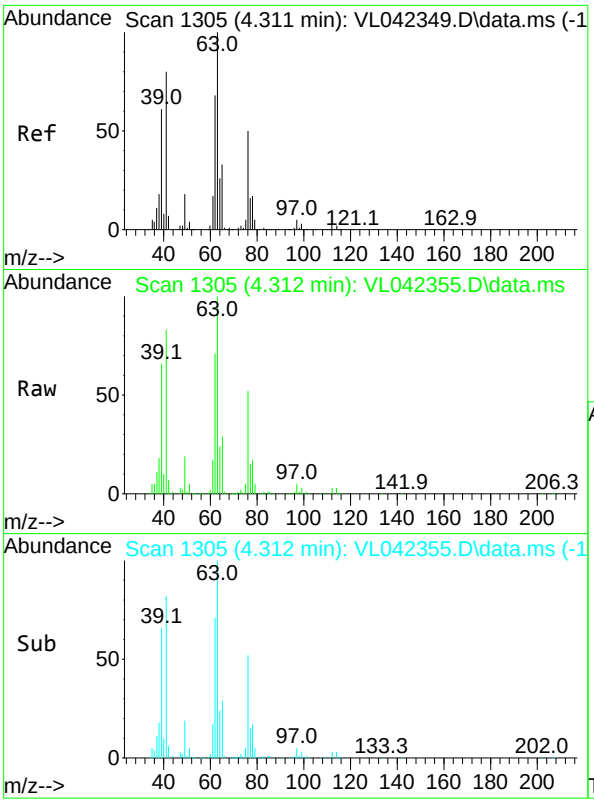


#38
Trichloroethene
Concen: 13.278 ppbv
RT: 4.548 min Scan# 1378
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion:130 Resp: 208508

Ion	Ratio	Lower	Upper
130	100		
95	115.0	89.8	134.6
132	95.3	77.7	116.5
97	73.0	59.4	89.2

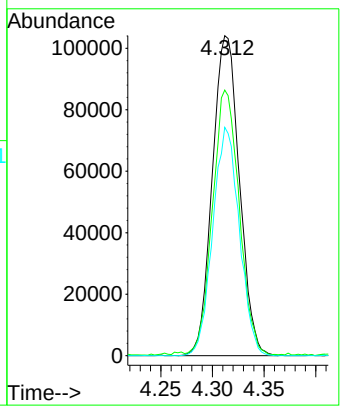




#39
1,2-Dichloropropane
Concen: 14.201 ppbv
RT: 4.312 min Scan# 1
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 63 Resp: 18969

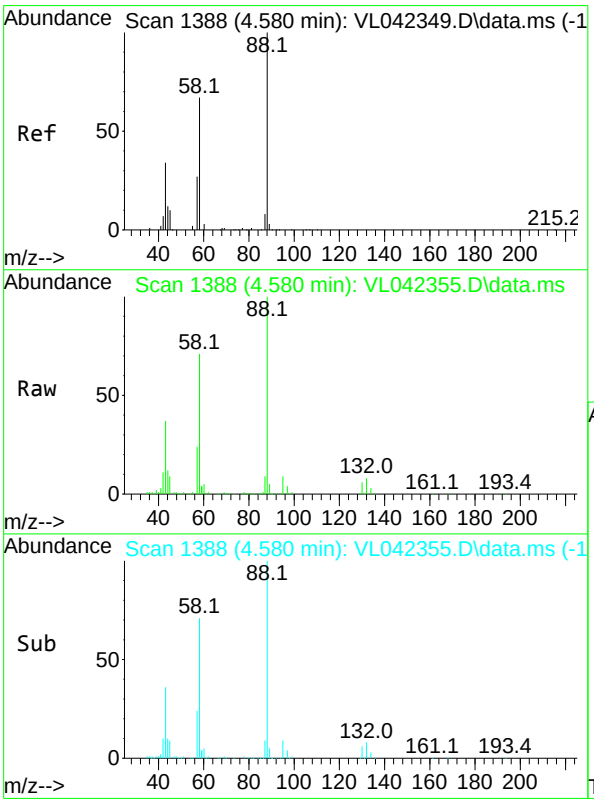
Ion	Ratio	Lower	Upper
63	100		
41	82.7	64.2	96.2
62	71.4	54.3	81.5



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

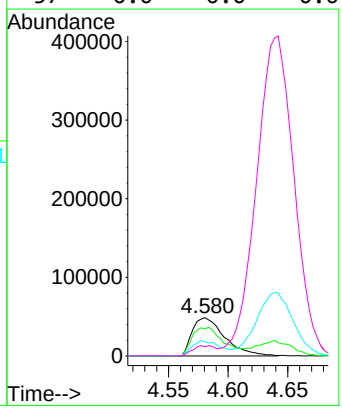
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

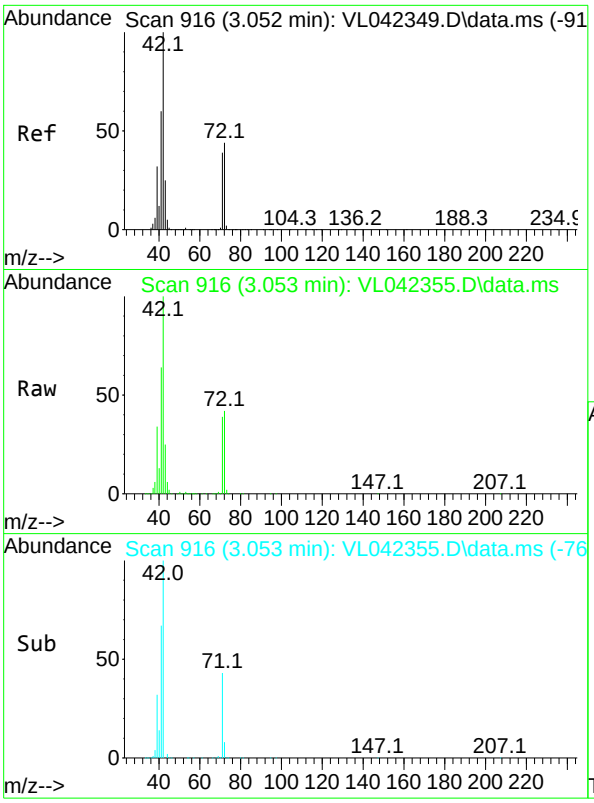


#40
1,4-Dioxane
Concen: 12.733 ppbv
RT: 4.580 min Scan# 1388
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 88 Resp: 92114

Ion	Ratio	Lower	Upper
88	100		
58	75.2	61.4	92.0
43	36.8	23.2	34.8#
57	0.0	0.0	0.0

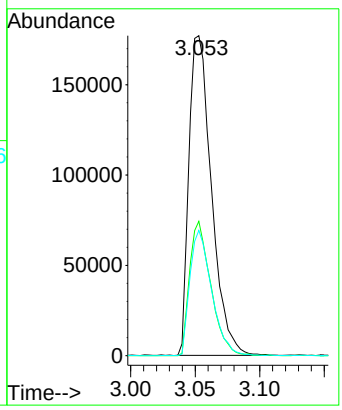




#41
Tetrahydrofuran
Concen: 14.166 ppbv
RT: 3.053 min Scan# 9
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 42 Resp: 21494

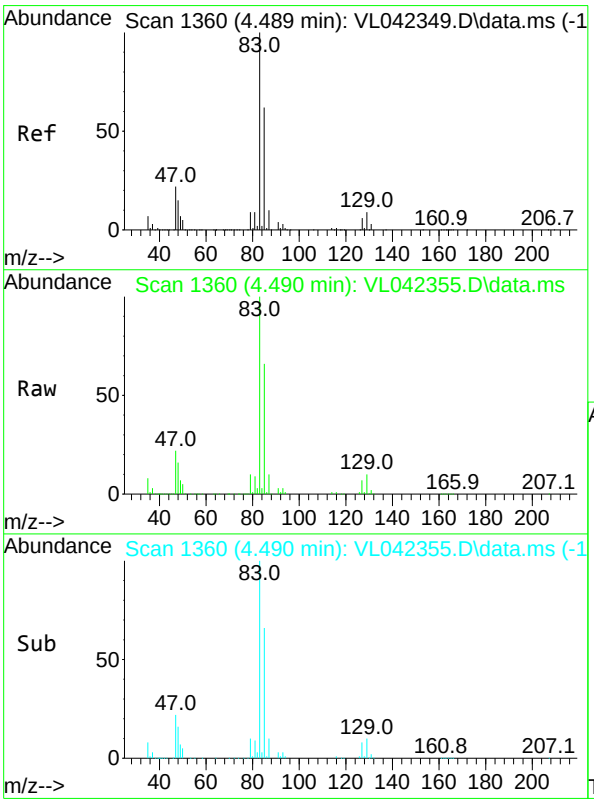
Ion	Ratio	Lower	Upper
42	100		
72	39.7	32.3	48.5
71	37.9	31.4	47.2



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

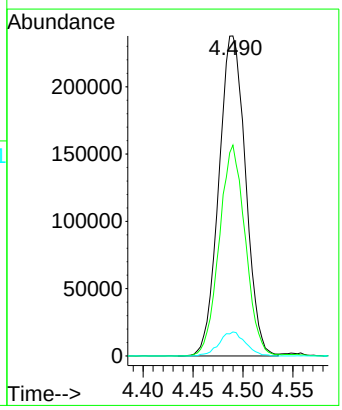
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

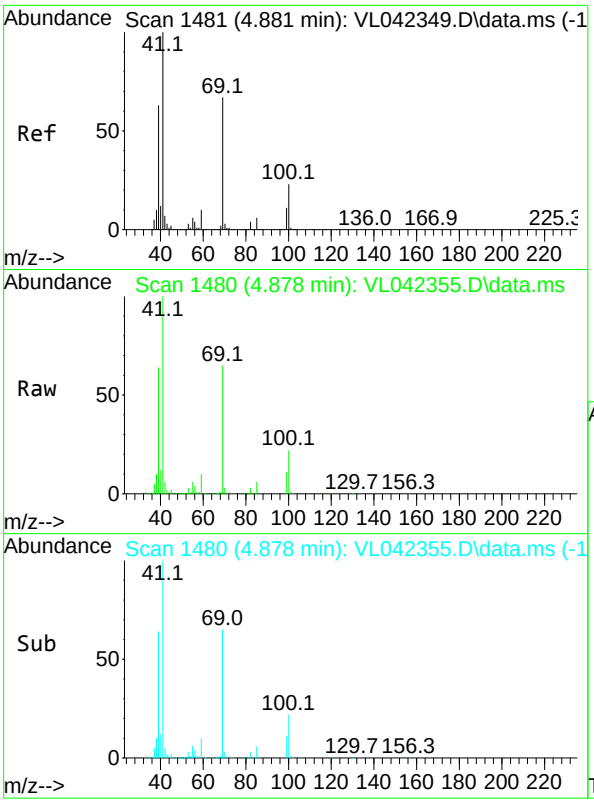


#42
Bromodichloromethane
Concen: 14.798 ppbv
RT: 4.490 min Scan# 1360
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 83 Resp: 442735

Ion	Ratio	Lower	Upper
83	100		
85	65.9	49.7	74.5
127	7.5	5.1	7.7

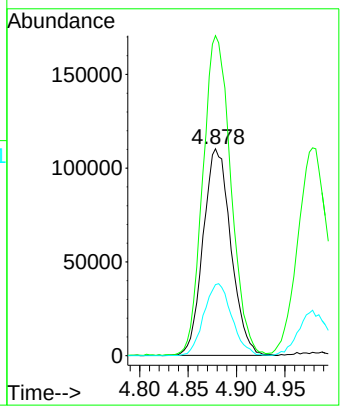




#43
Methyl Methacrylate
Concen: 13.670 ppbv
RT: 4.878 min Scan# 14
Delta R.T. -0.003 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 69 Resp: 21975

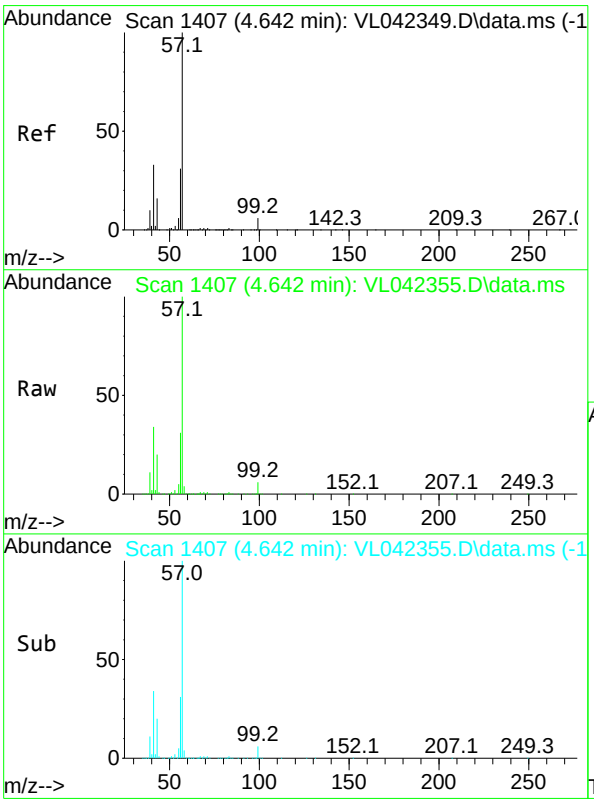
Ion	Ratio	Lower	Upper
69	100		
41	156.6	118.6	177.8
100	35.2	28.2	42.2



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

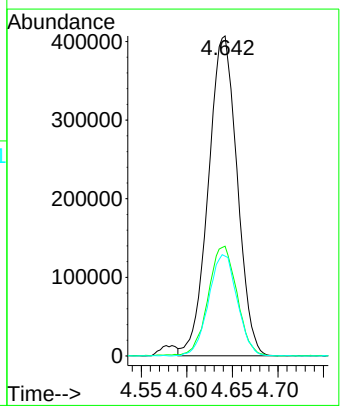
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

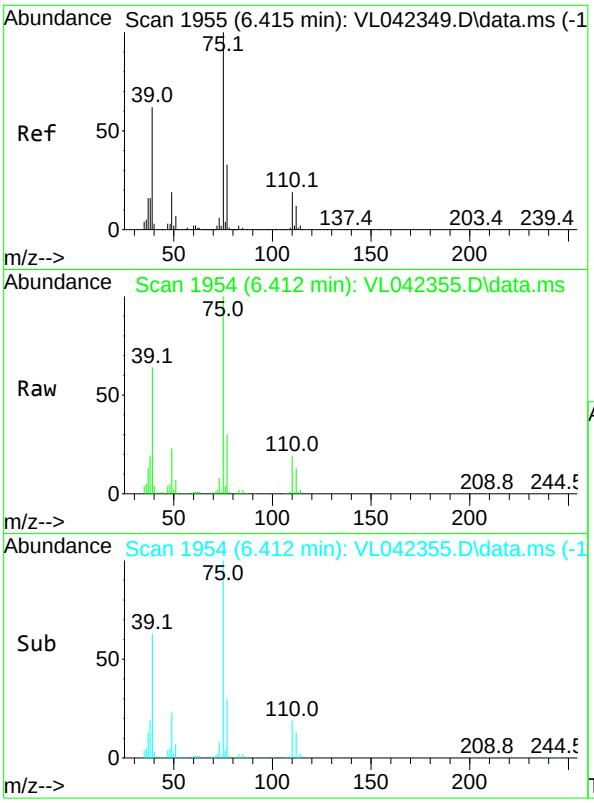


#44
2,2,4-Trimethylpentane
Concen: 14.425 ppbv
RT: 4.642 min Scan# 1407
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 57 Resp: 893529

Ion	Ratio	Lower	Upper
57	100		
41	34.4	27.2	40.8
56	31.6	25.7	38.5

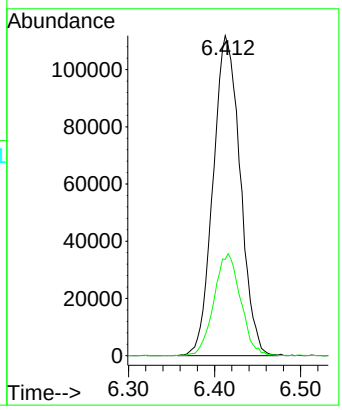




#45
t-1,3-Dichloropropene
Concen: 14.810 ppbv
RT: 6.412 min Scan# 1
Delta R.T. -0.003 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 75 Resp: 24447

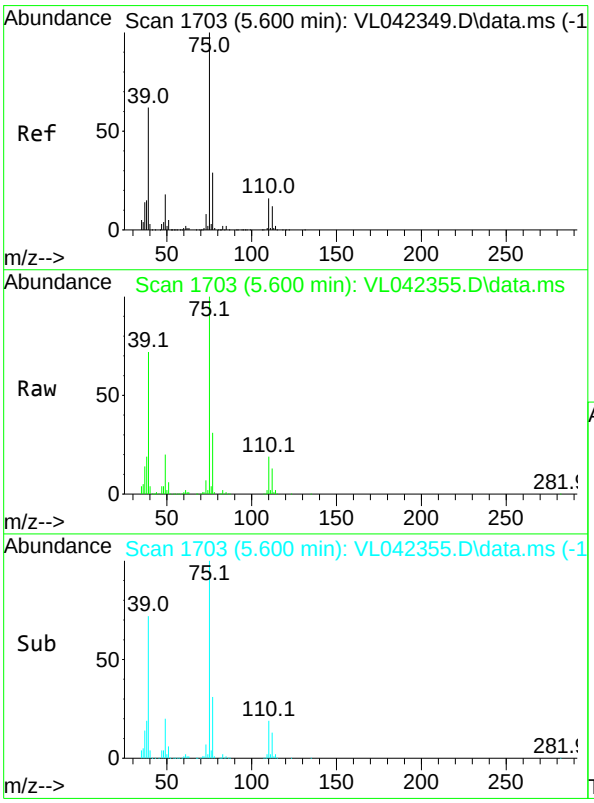
Ion	Ratio	Lower	Upper
75	100		
77	30.1	27.0	40.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

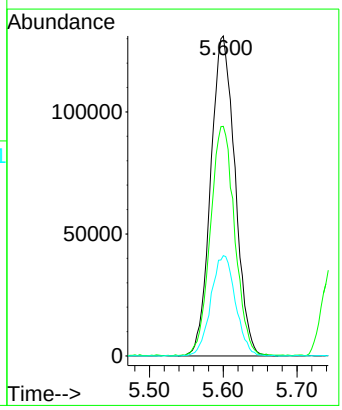
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

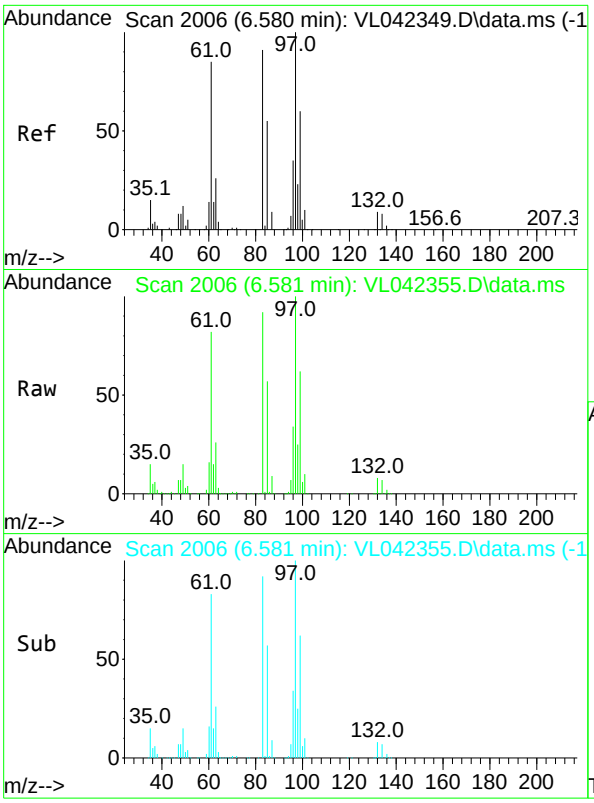


#46
cis-1,3-Dichloropropene
Concen: 14.878 ppbv
RT: 5.600 min Scan# 1703
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 75 Resp: 300145

Ion	Ratio	Lower	Upper
75	100		
39	71.6	50.0	75.0
77	31.3	23.0	34.6

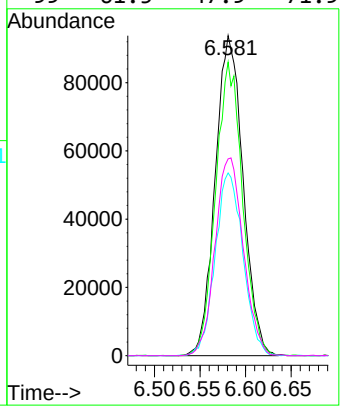




#47
1,1,2-Trichloroethane
Concen: 14.615 ppbv
RT: 6.581 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 97 Resp: 19887

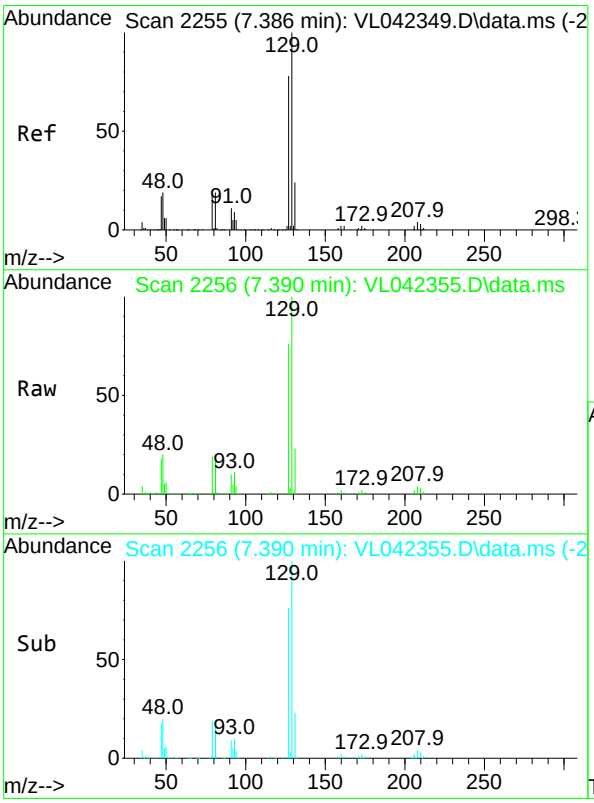
Ion	Ratio	Lower	Upper
97	100		
83	91.7	72.8	109.2
85	57.0	44.2	66.4
99	61.5	47.9	71.9



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations APPROVED

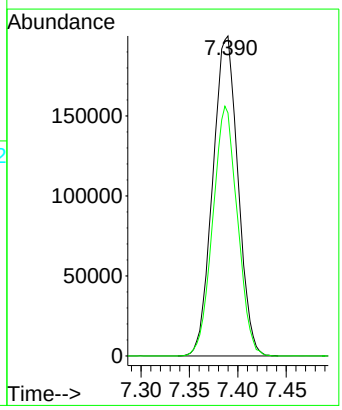
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

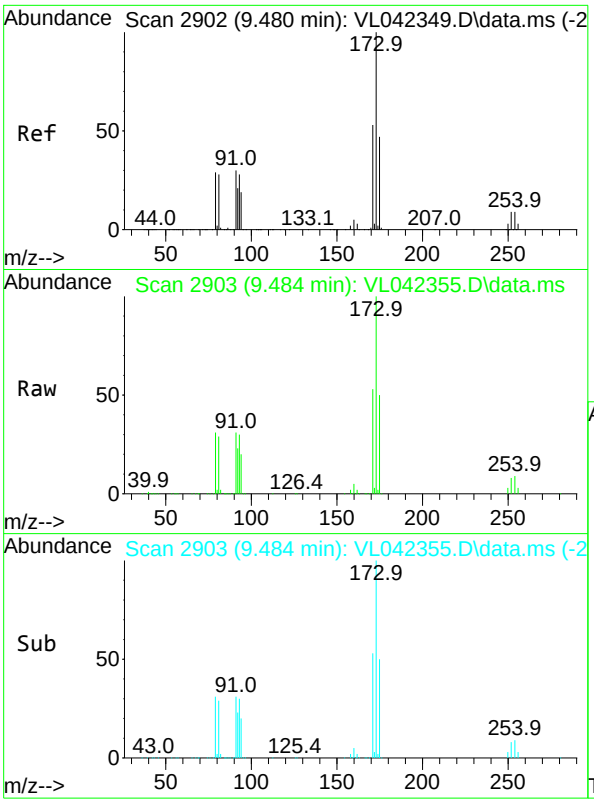


#48
Dibromochloromethane
Concen: 15.105 ppbv
RT: 7.390 min Scan# 2256
Delta R.T. 0.004 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion:129 Resp: 362887

Ion	Ratio	Lower	Upper
129	100		
127	76.3	39.1	117.3

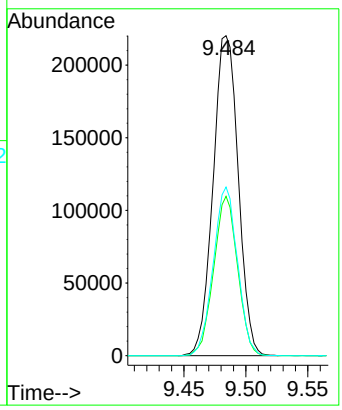




#49
Bromoform
Concen: 14.865 ppbv
RT: 9.484 min Scan# 2
Delta R.T. 0.004 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion:173 Resp: 31228

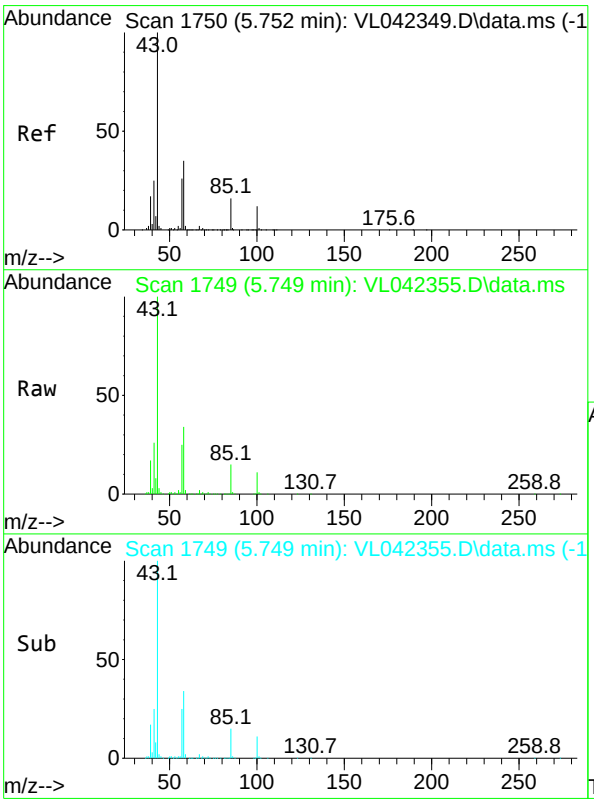
Ion	Ratio	Lower	Upper
173	100		
175	47.3	38.2	57.2
171	50.6	40.9	61.3



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
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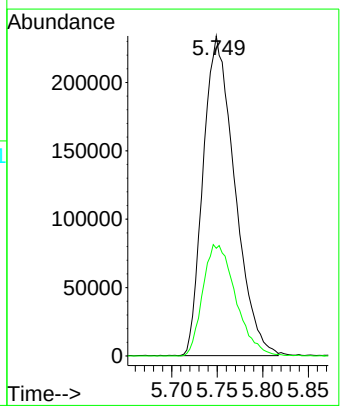
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

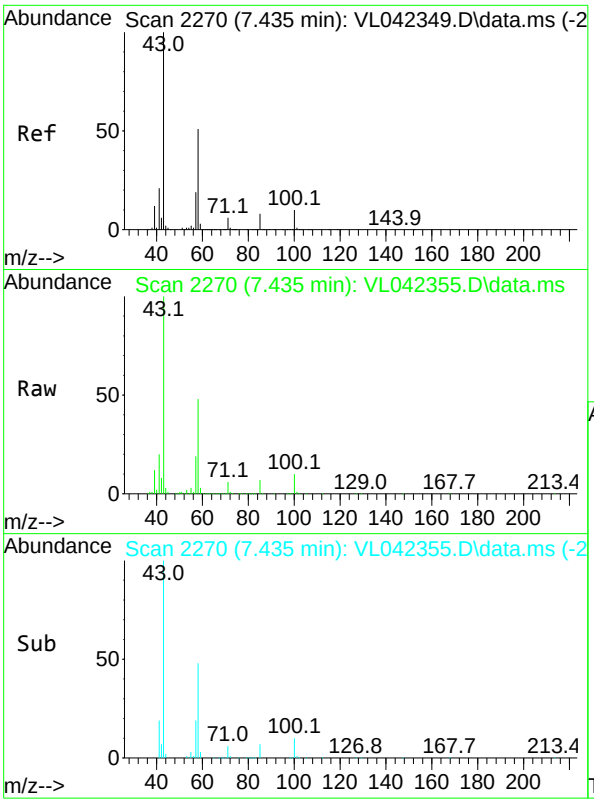


#50
4-Methyl-2-Pentanone
Concen: 12.889 ppbv
RT: 5.749 min Scan# 1749
Delta R.T. -0.003 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 43 Resp: 563658

Ion	Ratio	Lower	Upper
43	100		
58	36.3	28.6	43.0

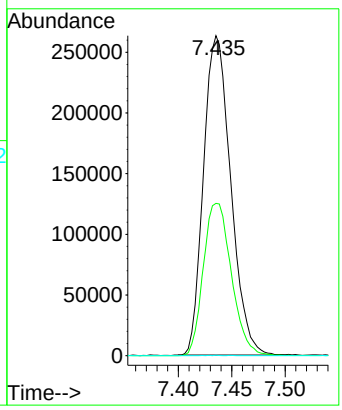




#51
2-Hexanone
Concen: 11.834 ppbv
RT: 7.435 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 43 Resp: 46700

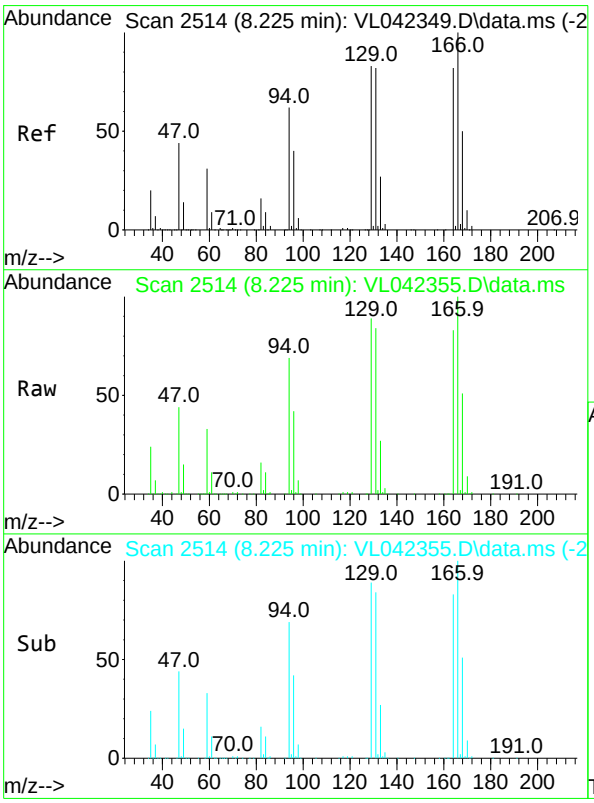
Ion	Ratio	Lower	Upper
43	100		
58	49.2	40.2	60.4
98	0.0	0.1	0.1



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
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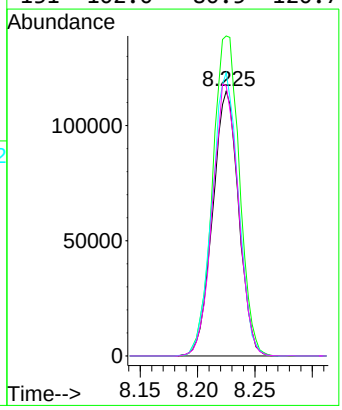
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

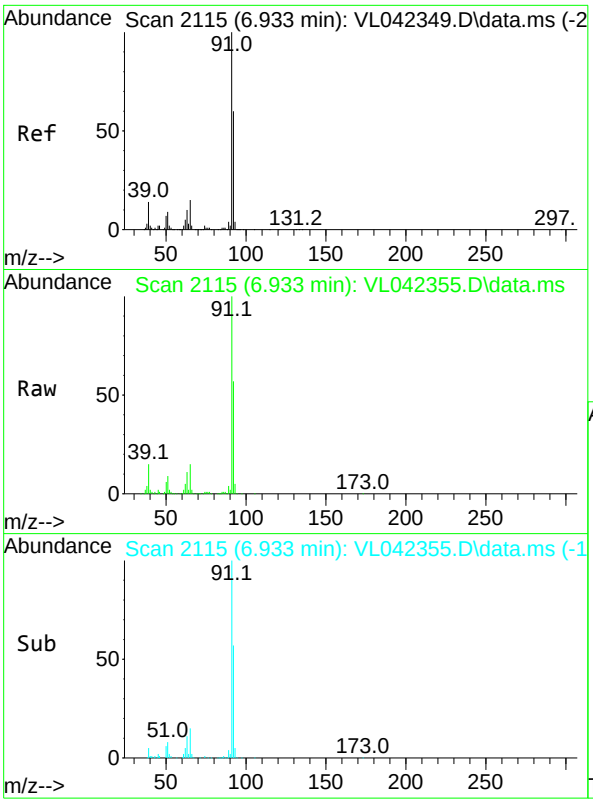


#52
Tetrachloroethene
Concen: 13.046 ppbv
RT: 8.225 min Scan# 2514
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion:164 Resp: 180631

Ion	Ratio	Lower	Upper
164	100		
166	120.8	98.2	147.2
129	107.0	81.8	122.8
131	102.0	80.5	120.7

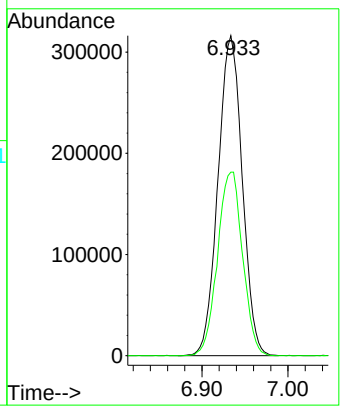




#53
Toluene
Concen: 14.411 ppbv
RT: 6.933 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 91 Resp: 61942

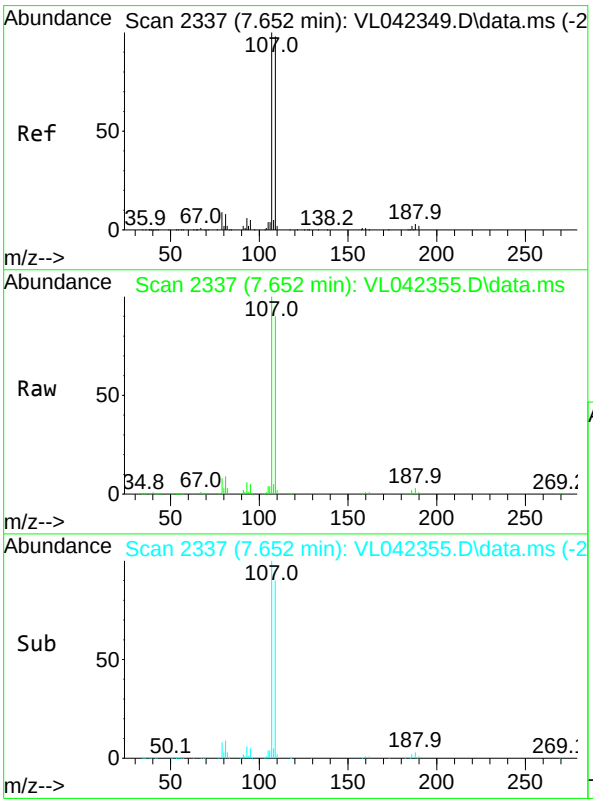
Ion	Ratio	Lower	Upper
91	100		
92	59.3	48.2	72.4



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
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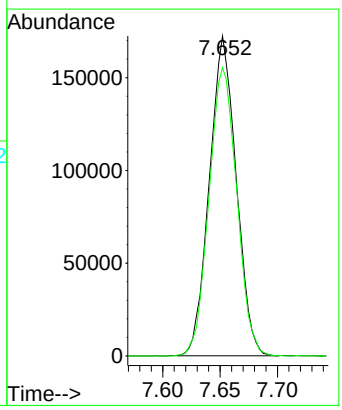
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

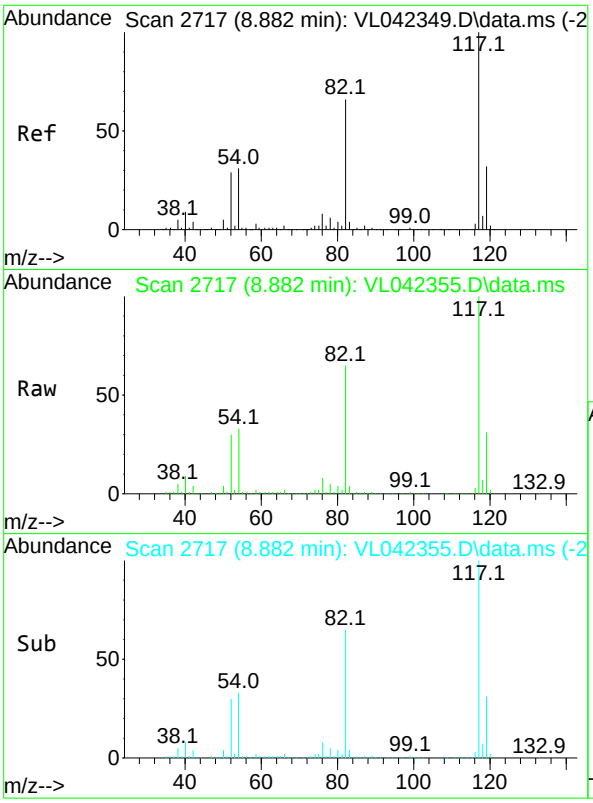


#54
1,2-Dibromoethane
Concen: 14.442 ppbv
RT: 7.652 min Scan# 2337
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion:107 Resp: 280071

Ion	Ratio	Lower	Upper
107	100		
109	89.9	78.2	117.4

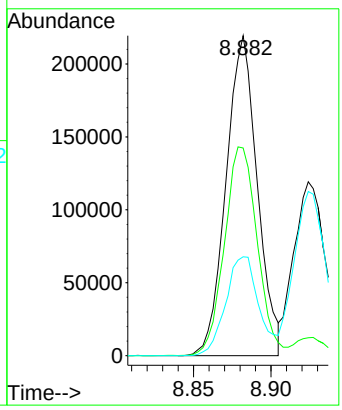




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.882 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion:117 Resp: 30846

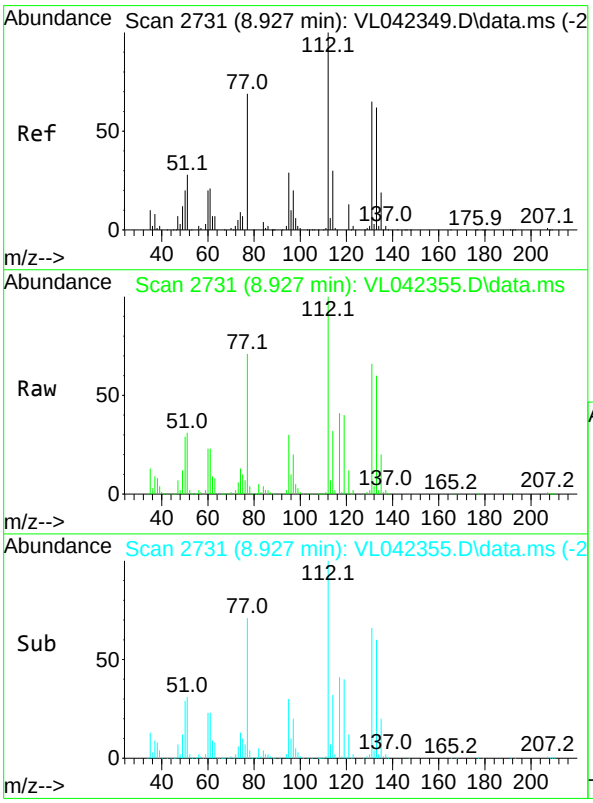
Ion	Ratio	Lower	Upper
117	100		
82	74.2	57.8	86.6
119	31.4	25.2	37.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
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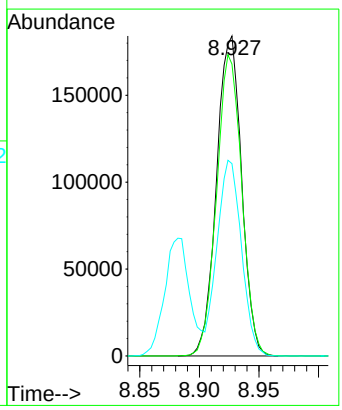
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

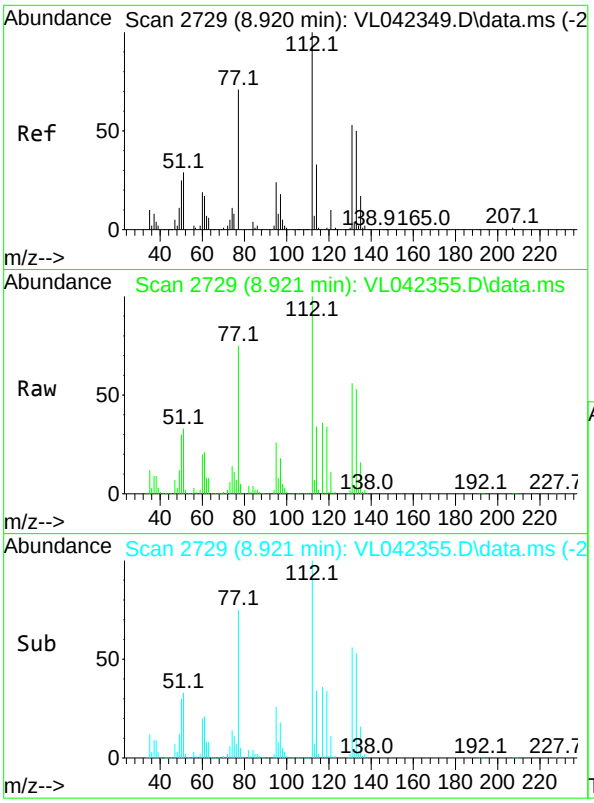


#56
1,1,1,2-Tetrachloroethane
Concen: 14.389 ppbv
RT: 8.927 min Scan# 2731
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion:131 Resp: 268626

Ion	Ratio	Lower	Upper
131	100		
133	94.6	78.3	117.5
119	59.4	48.7	73.1





#57
Chlorobenzene
Concen: 14.151 ppbv
RT: 8.921 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

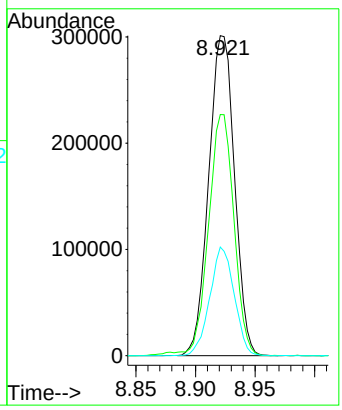
Tgt Ion:112 Resp: 45401

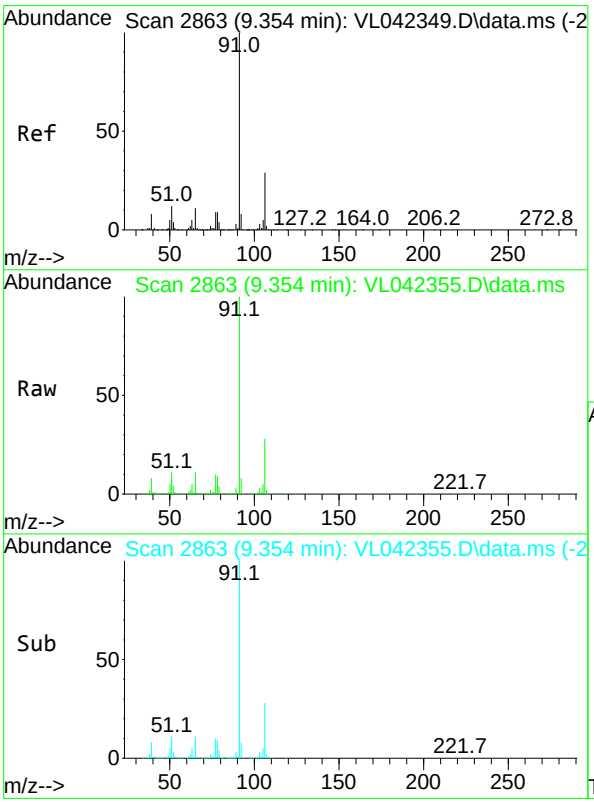
Ion	Ratio	Lower	Upper
112	100		
77	75.3	57.8	86.6
114	33.9	29.3	35.9

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

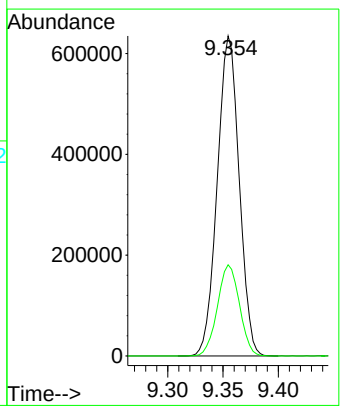


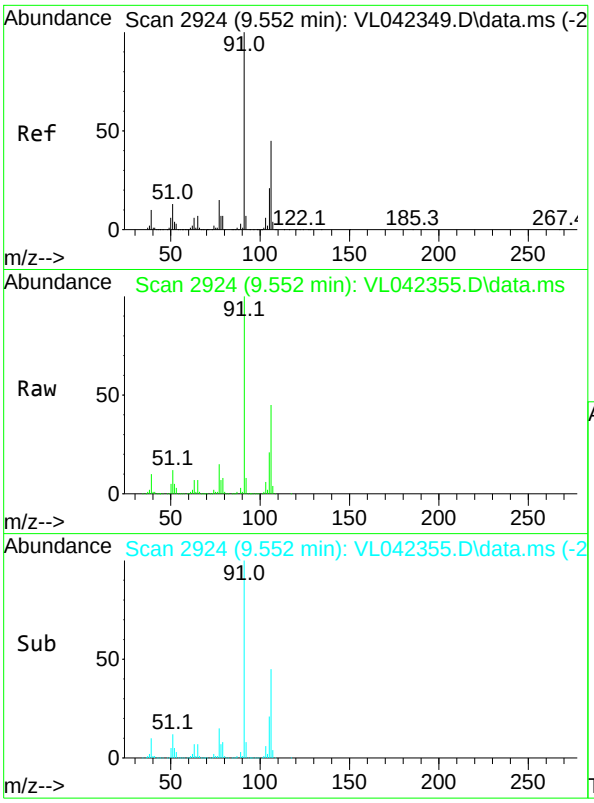


#58
Ethyl Benzene
Concen: 14.308 ppbv
RT: 9.354 min Scan# 2863
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 91 Resp: 874424

Ion	Ratio	Lower	Upper
91	100		
106	28.5	23.0	34.4

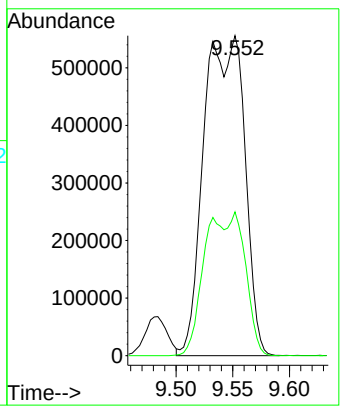




#59
m/p-Xylene
Concen: 28.109 ppbv m
RT: 9.552 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 91 Resp: 138808

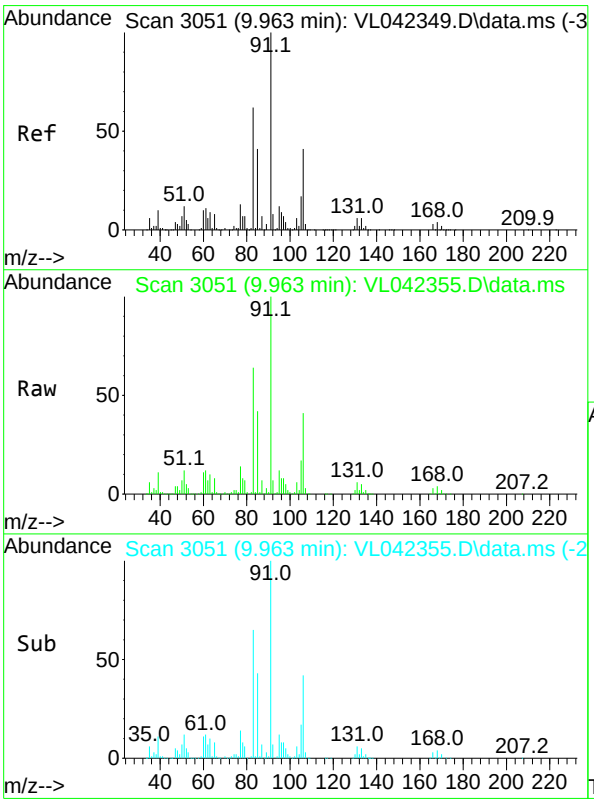
Ion	Ratio	Lower	Upper
91	100		
106	44.5	35.4	53.2



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
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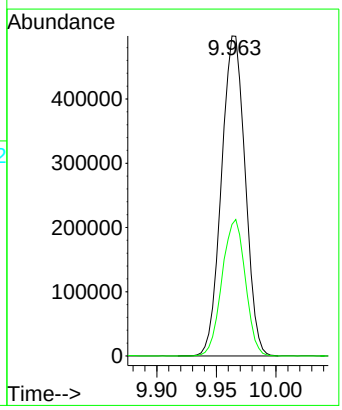
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

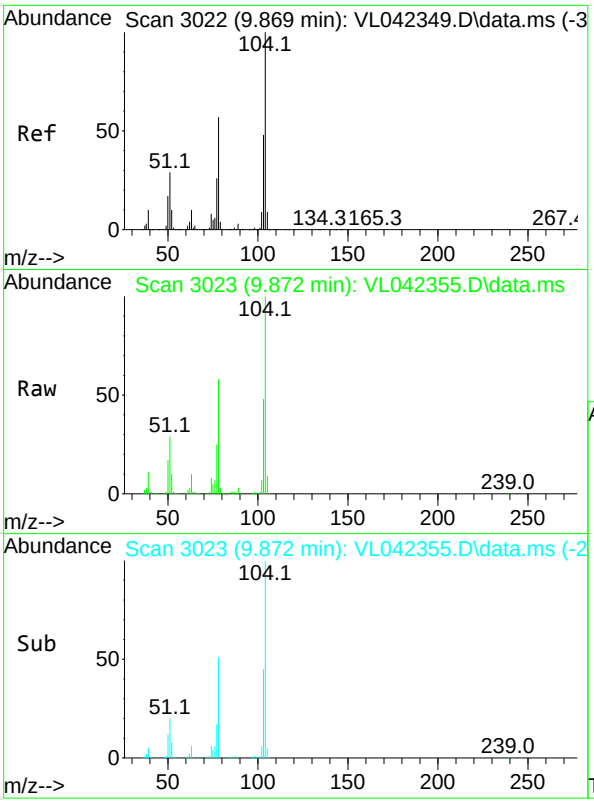


#60
o-Xylene
Concen: 13.902 ppbv
RT: 9.963 min Scan# 3051
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 91 Resp: 689246

Ion	Ratio	Lower	Upper
91	100		
106	41.9	21.1	63.4

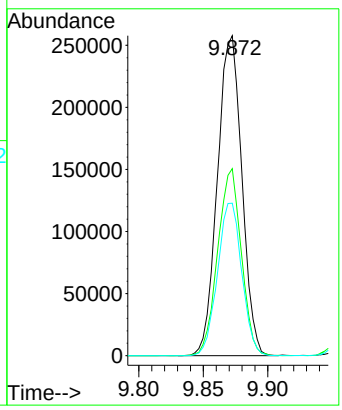




#61
Styrene
Concen: 14.347 ppbv
RT: 9.872 min Scan# 3
Delta R.T. 0.004 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion:104 Resp: 33950

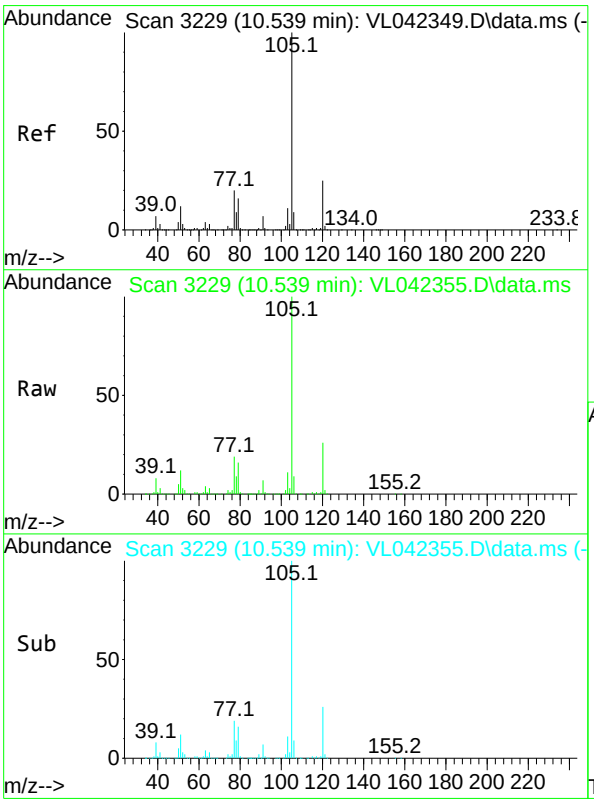
Ion	Ratio	Lower	Upper
104	100		
78	56.4	44.6	66.8
103	47.3	37.4	56.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
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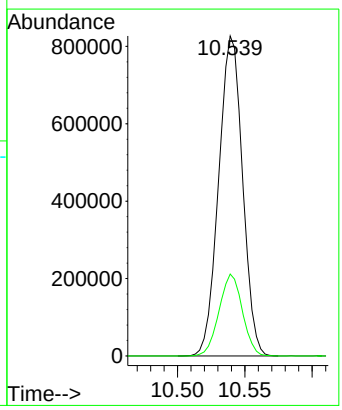
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

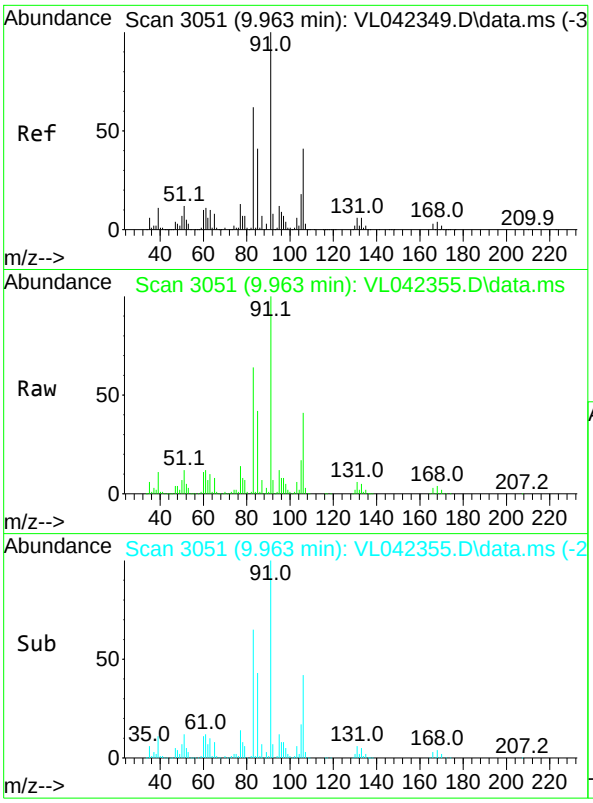


#62
Isopropylbenzene
Concen: 13.999 ppbv
RT: 10.539 min Scan# 3229
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion:105 Resp: 1018968

Ion	Ratio	Lower	Upper
105	100		
120	25.0	19.8	29.8

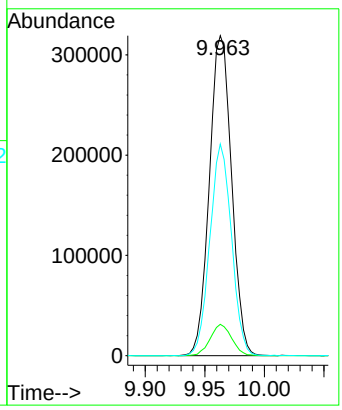




#63
1,1,2,2-Tetrachloroethane
Concen: 12.816 ppbv
RT: 9.963 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 83 Resp: 41289

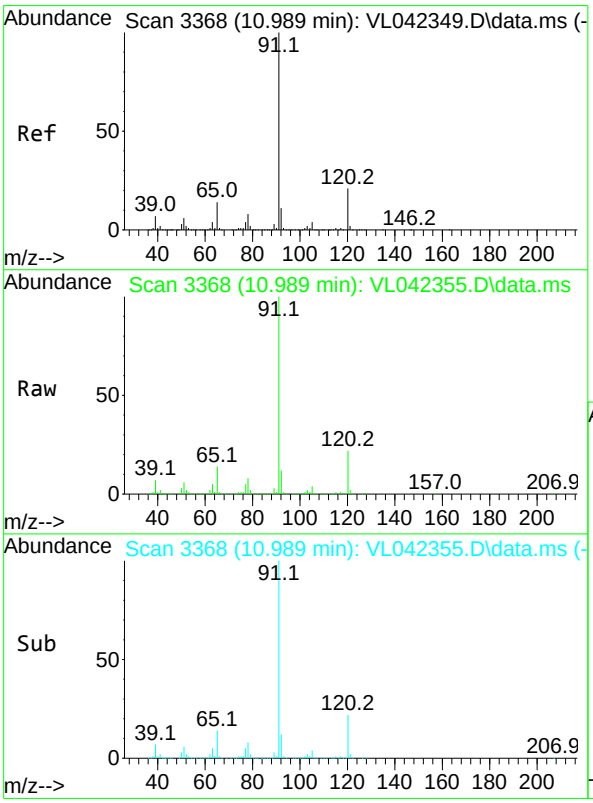
Ion	Ratio	Lower	Upper
83	100		
131	9.5	4.5	13.7
85	64.5	32.4	97.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
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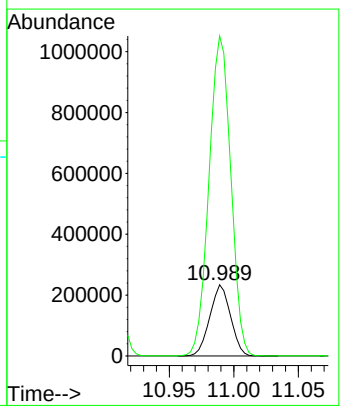
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

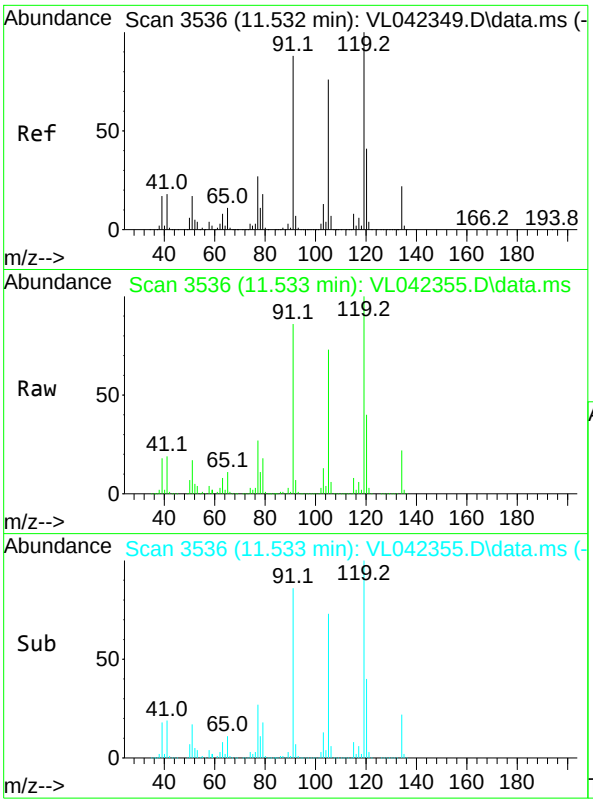


#64
n-propylbenzene
Concen: 14.255 ppbv
RT: 10.989 min Scan# 3368
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion:120 Resp: 260812

Ion	Ratio	Lower	Upper
120	100		
91	473.2	392.4	588.6

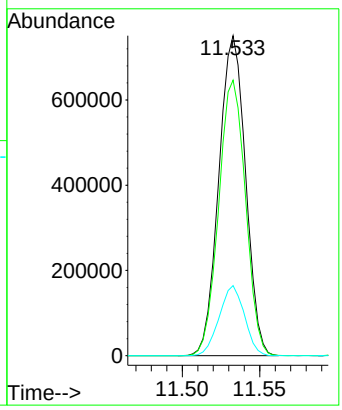




#65
tert-Butylbenzene
Concen: 13.449 ppbv
RT: 11.533 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion:119 Resp: 89972

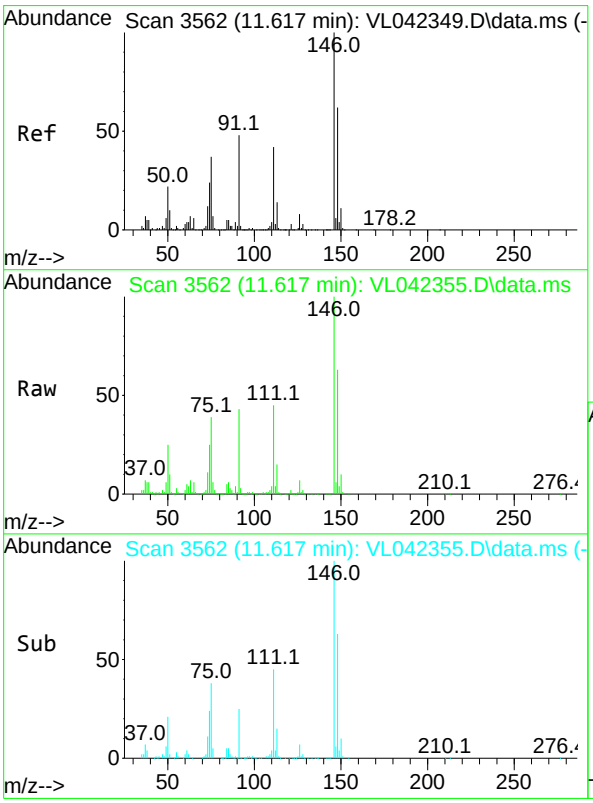
Ion	Ratio	Lower	Upper
119	100		
91	86.2	74.6	111.8
134	20.8	18.8	28.2



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations APPROVED

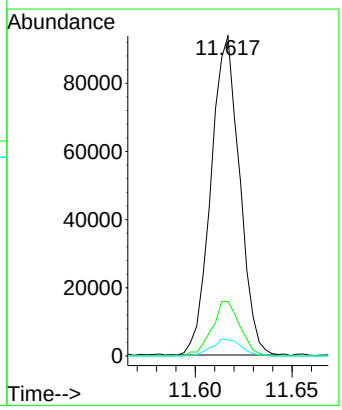
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

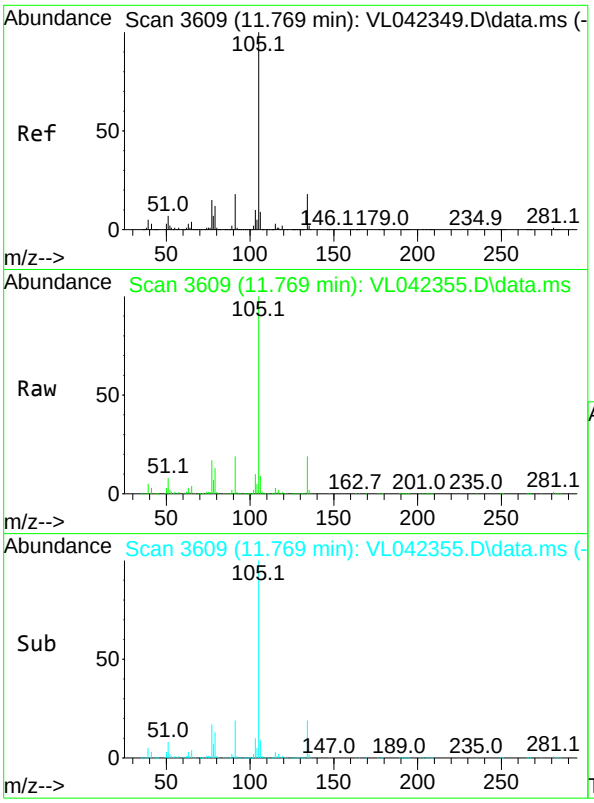


#66
Benzyl Chloride
Concen: 13.061 ppbv
RT: 11.617 min Scan# 3562
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 91 Resp: 96016

Ion	Ratio	Lower	Upper
91	100		
126	16.8	11.8	17.6
128	5.5	4.5	6.7

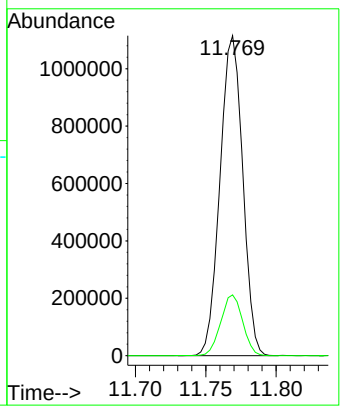




#67
sec-Butylbenzene
Concen: 13.468 ppbv
RT: 11.769 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion:105 Resp: 125326

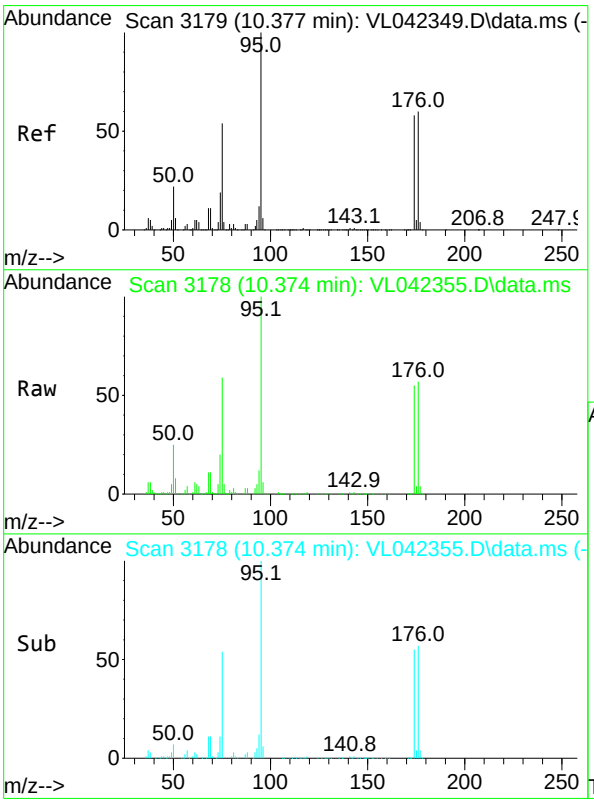
Ion	Ratio	Lower	Upper
105	100		
134	18.4	14.6	21.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations APPROVED

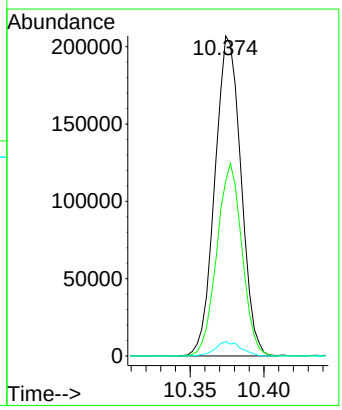
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

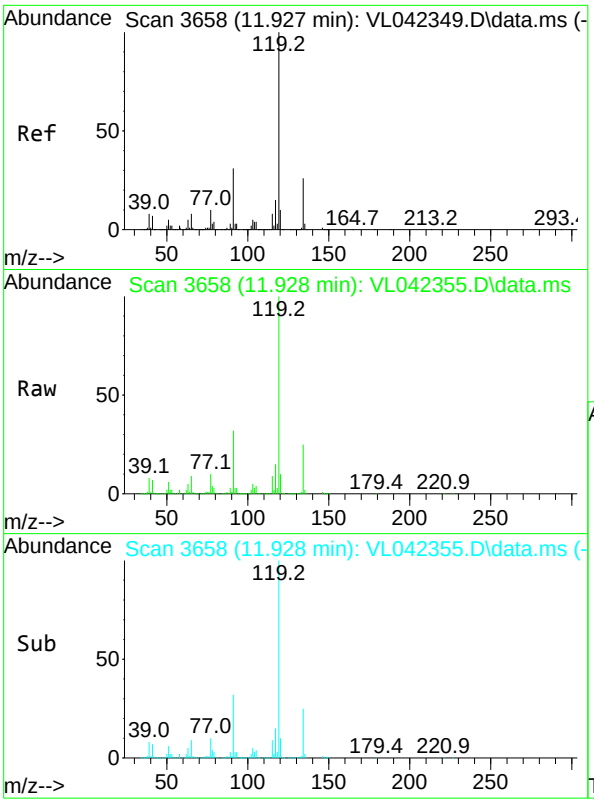


#68
1-Bromo-4-Fluorobenzene
Concen: 10.038 ppbv
RT: 10.374 min Scan# 3178
Delta R.T. -0.003 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 95 Resp: 254437

Ion	Ratio	Lower	Upper
95	100		
174	58.1	48.5	72.7
175	4.4	3.7	5.5

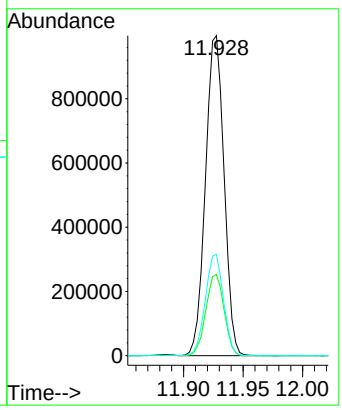




#69
p-Isopropyltoluene
Concen: 13.382 ppbv
RT: 11.928 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion:119 Resp: 108185

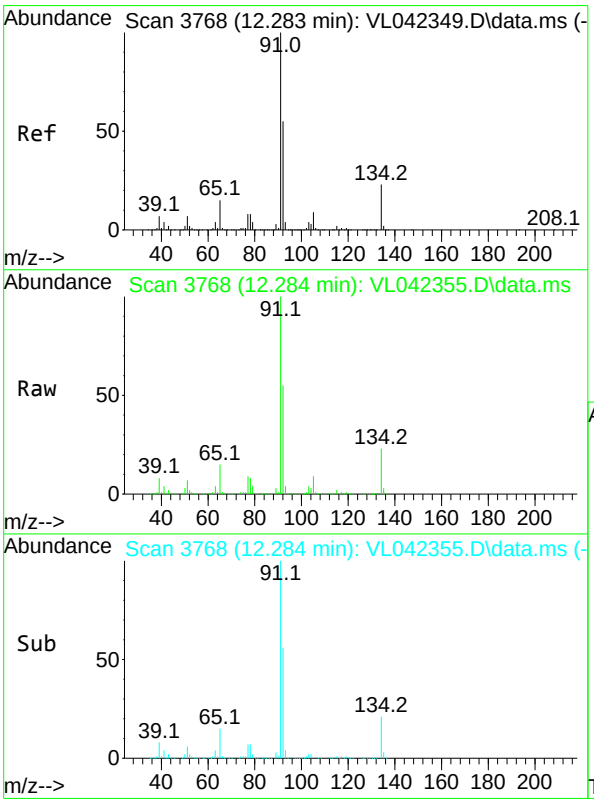
Ion	Ratio	Lower	Upper
119	100		
134	25.0	20.0	30.0
91	31.1	24.4	36.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

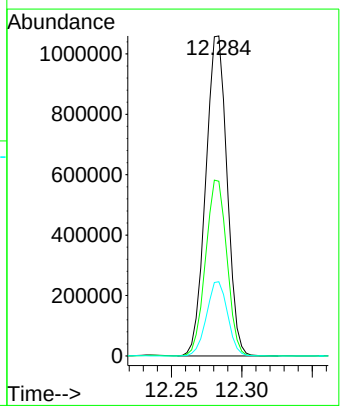
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

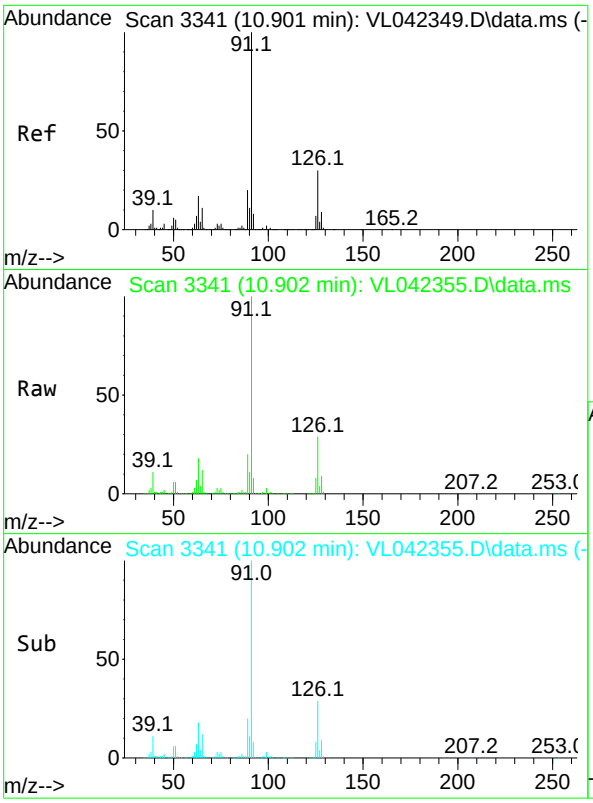


#70
n-Butylbenzene
Concen: 13.266 ppbv
RT: 12.284 min Scan# 3768
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 91 Resp: 1117042

Ion	Ratio	Lower	Upper
91	100		
92	55.3	44.2	66.4
134	23.0	18.2	27.4

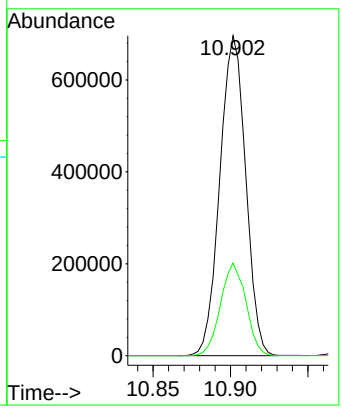




#71
2-Chlorotoluene
Concen: 14.131 ppbv
RT: 10.902 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 91 Resp: 80672

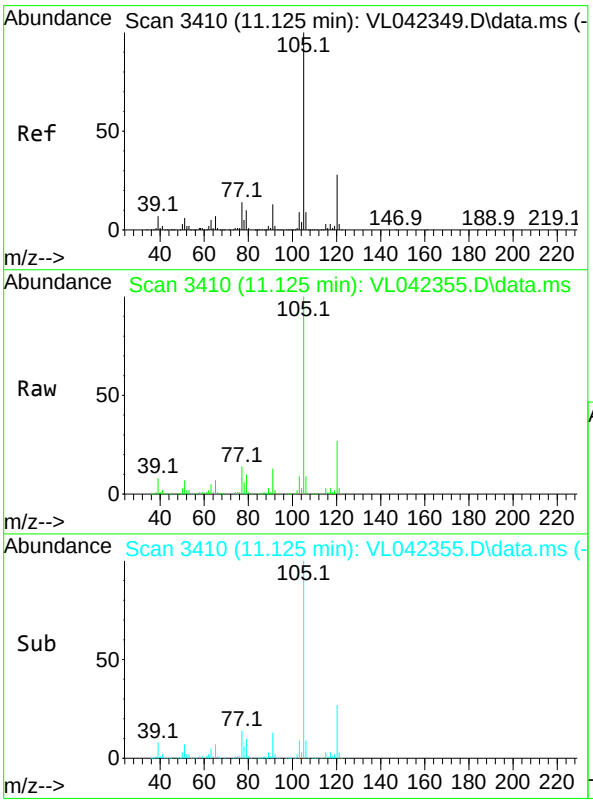
Ion	Ratio	Lower	Upper
91	100		
126	28.4	11.4	45.4



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

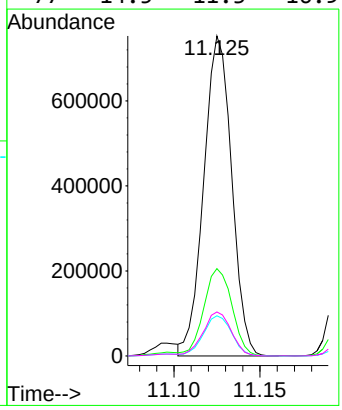
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

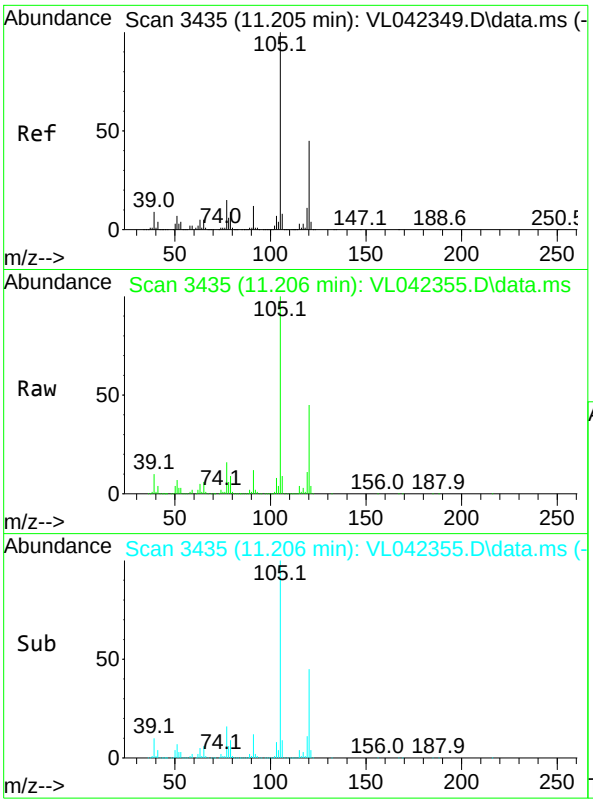


#72
4-Ethyltoluene
Concen: 13.992 ppbv
RT: 11.125 min Scan# 3410
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion:105 Resp: 848077

Ion	Ratio	Lower	Upper
105	100		
120	28.7	23.2	34.8
91	13.5	10.4	15.6
77	14.5	11.3	16.9

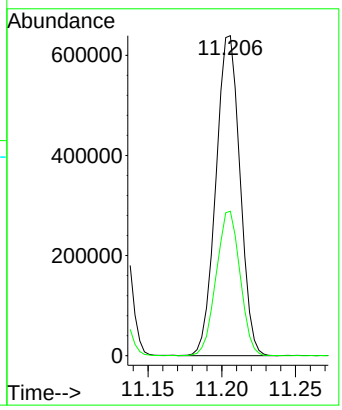




#73
1,3,5-Trimethylbenzene
Concen: 13.578 ppbv
RT: 11.206 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion:105 Resp: 72655

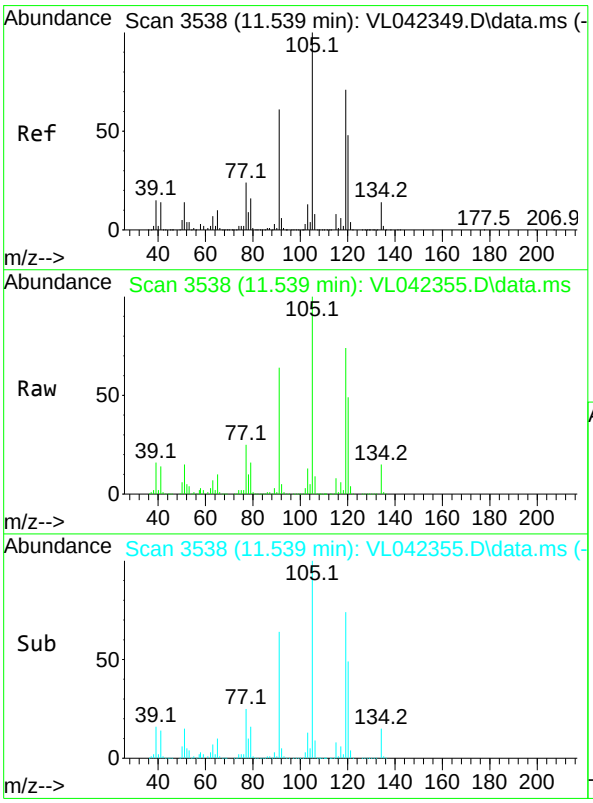
Ion	Ratio	Lower	Upper
105	100		
120	45.1	35.6	53.4



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

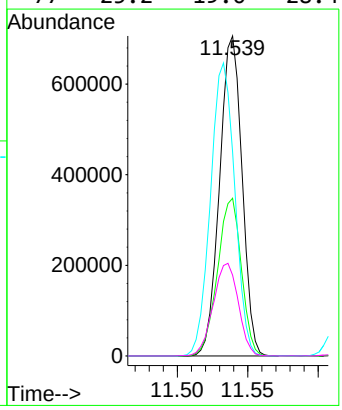
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

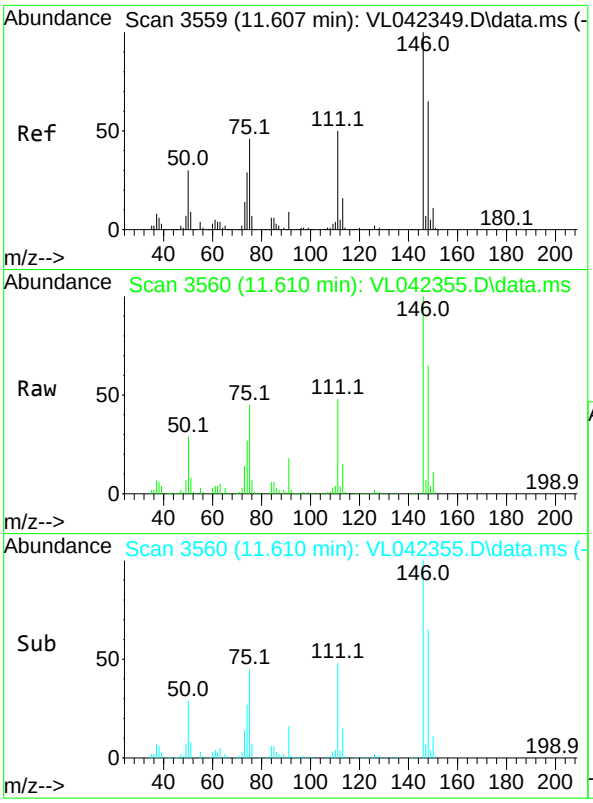


#74
1,2,4-Trimethylbenzene
Concen: 12.572 ppbv
RT: 11.539 min Scan# 3538
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion:105 Resp: 785772

Ion	Ratio	Lower	Upper
105	100		
120	49.3	38.1	57.1
91	63.7	48.8	73.2
77	25.2	19.0	28.4

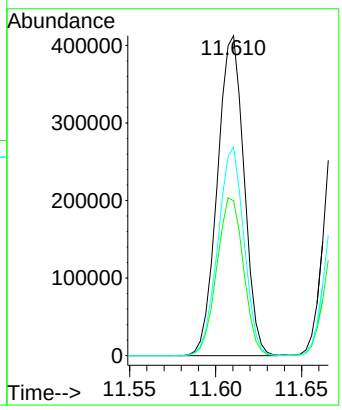




#75
1,3-Dichlorobenzene
Concen: 13.670 ppbv
RT: 11.610 min Scan# 3
Delta R.T. 0.004 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion:146 Resp: 44408

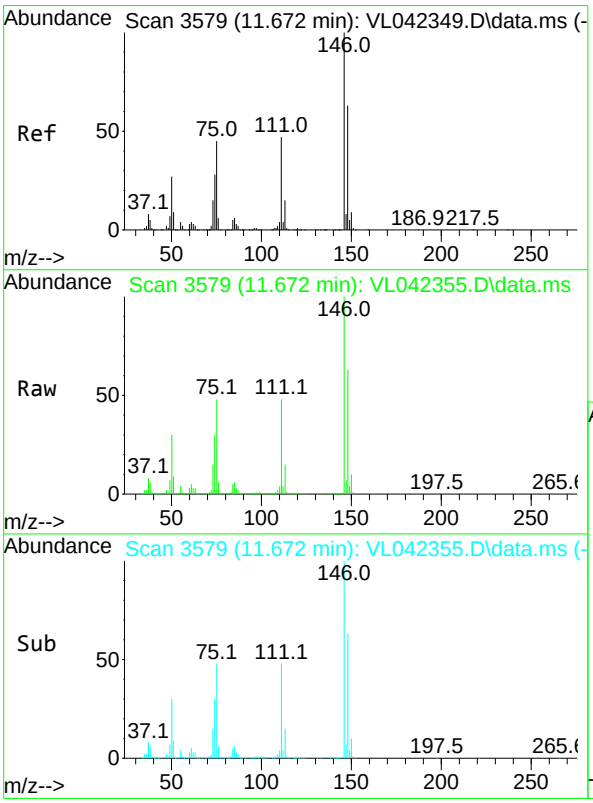
Ion	Ratio	Lower	Upper
146	100		
111	49.6	24.3	72.8
148	63.9	31.6	94.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

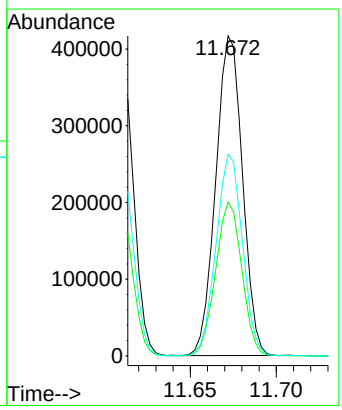
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

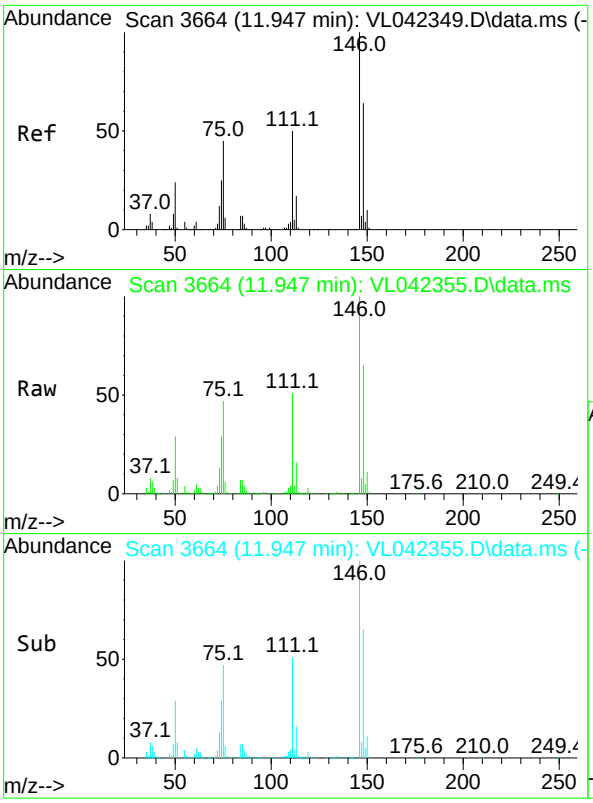


#76
1,4-Dichlorobenzene
Concen: 13.802 ppbv
RT: 11.672 min Scan# 3579
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion:146 Resp: 450662

Ion	Ratio	Lower	Upper
146	100		
111	47.4	24.2	72.6
148	62.6	32.1	96.5

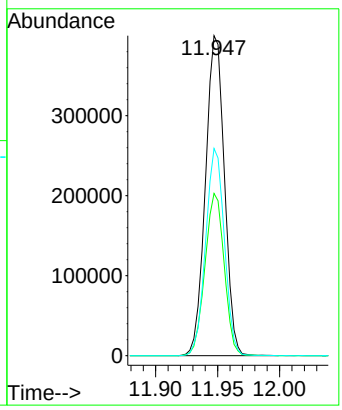




#77
1,2-Dichlorobenzene
Concen: 13.529 ppbv
RT: 11.947 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion:146 Resp: 42737

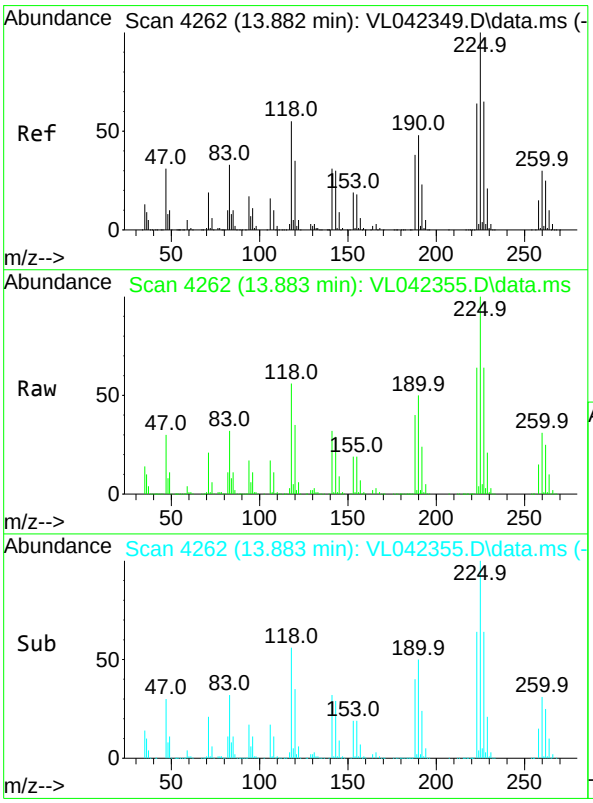
Ion	Ratio	Lower	Upper
146	100		
111	51.3	25.3	75.9
148	63.8	31.5	94.5



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

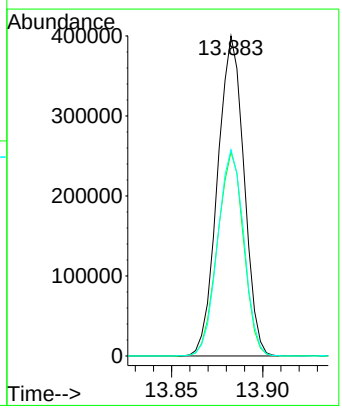
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

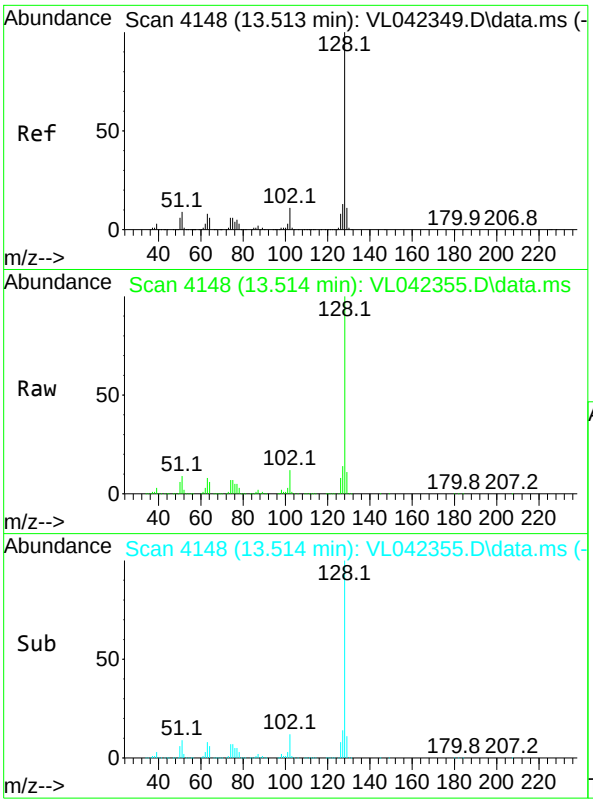


#78
Hexachloro-1,3-Butadiene
Concen: 12.679 ppbv
RT: 13.883 min Scan# 4262
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion:225 Resp: 404441

Ion	Ratio	Lower	Upper
225	100		
223	62.8	50.3	75.5
227	63.8	51.5	77.3

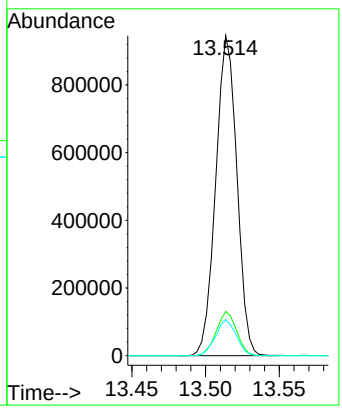




#79
Naphthalene
Concen: 12.632 ppbv
RT: 13.514 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion:128 Resp: 94408

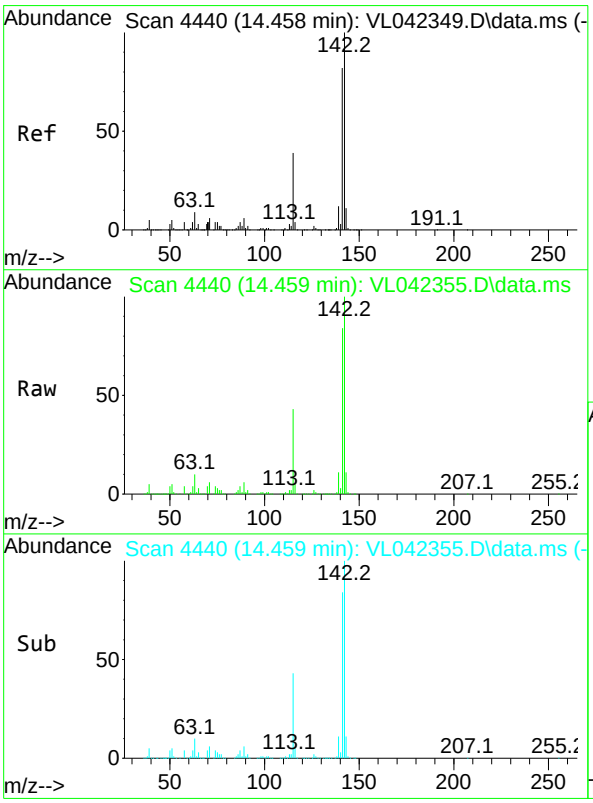
Ion	Ratio	Lower	Upper
128	100		
127	13.9	10.6	15.8
129	11.3	8.6	12.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

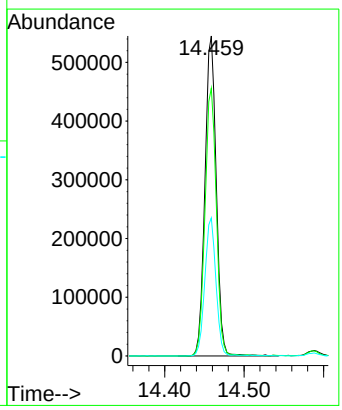
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

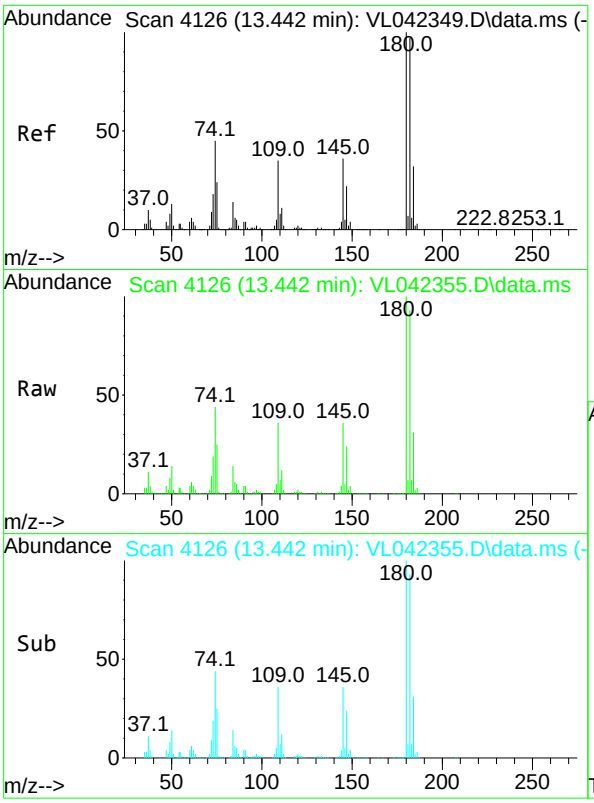


#80
Naphthalene,2-methyl-
Concen: 12.686 ppbv
RT: 14.459 min Scan# 4440
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion:142 Resp: 540339

Ion	Ratio	Lower	Upper
142	100		
141	84.3	66.8	100.2
115	43.0	33.4	50.2

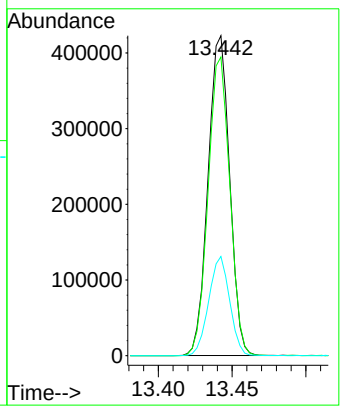




#81
1,2,4-Trichlorobenzene
Concen: 13.398 ppbv
RT: 13.442 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion:180 Resp: 42998

Ion	Ratio	Lower	Upper
180	100		
182	94.3	76.8	115.2
184	30.2	24.6	36.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042356.D
Acq On : 17 Apr 2025 13:43
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 18 02:15:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.787	49	113992	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.958	114	324528	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.881	117	305357	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	250149	9.969	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 99.700%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	197623	9.812	ppbv	100
3) Chlorodifluoromethane	1.476	51	191010	9.960	ppbv	99
4) Chloromethane	1.531	50	78080	9.796	ppbv	98
5) Vinyl Chloride	1.580	62	75628	8.717	ppbv	97
6) Bromomethane	1.667	94	35115	9.422	ppbv	84
7) Chloroethane	1.703	64	30158	9.612	ppbv	99
8) Dichlorotetrafluoroethane	1.554	85	172863	9.997	ppbv	98
9) Propene	1.482	41	84636	9.690	ppbv	95
10) Heptane	4.978	43	221840	9.041	ppbv	98
11) Trichlorofluoromethane	1.877	101	187827	9.807	ppbv	99
12) 1,1,2-Trichlorotrifluo...	2.140	101	148485	9.482	ppbv	100
13) Ethanol	1.722	45	4171	3.005	ppbv	97
14) Bromoethene	1.780	108	58320	9.880	ppbv	99
15) Acetone	1.835	43	158708	8.505	ppbv	100
16) 1,3-Butadiene	1.609	39	78804	8.829	ppbv	95
17) tert-Butyl alcohol	2.039	59	218954	9.468	ppbv	99
18) 1,1-Dichloroethene	2.033	96	67940	9.287	ppbv	94
19) Isopropyl Alcohol	1.887	45	96365	9.296	ppbv	95
20) Methylene Chloride	2.062	84	59203	8.101	ppbv	91
21) Allyl Chloride	2.094	41	120704	9.368	ppbv	98
22) trans-1,2-Dichloroethene	2.340	96	78070	9.373	ppbv	99
23) Vinyl Acetate	2.463	43	73373	9.714	ppbv	99
24) 1,1-Dichloroethane	2.408	63	155571	9.832	ppbv	100
25) Ethyl Acetate	2.835	43	449014	9.759	ppbv	99
26) Hexane	2.826	57	175752	9.439	ppbv	98
27) Carbon Disulfide	2.149	76	191117	9.587	ppbv	100
28) Methyl tert-Butyl Ether	2.441	73	115190	9.442	ppbv	94
29) Chloroform	2.848	83	260855	9.912	ppbv	98
30) Cyclohexane	3.855	84	148246	9.849	ppbv	99
31) cis-1,2-Dichloroethene	2.719	61	179993	10.167	ppbv	99
32) 1,1,1-Trichloroethane	3.369	97	276599	9.336	ppbv	98
34) 2-Butanone	2.557	43	248969	9.700	ppbv	99
35) Carbon Tetrachloride	3.764	117	271862	9.256	ppbv	98
36) Benzene	3.657	78	350545	10.014	ppbv	99
37) 1,2-Dichloroethane	3.217	62	211790	10.081	ppbv	99
38) Trichloroethene	4.551	130	139872	9.143	ppbv	96
39) 1,2-Dichloropropane	4.315	63	129239	9.908	ppbv	99
40) 1,4-Dioxane	4.583	88	61587	8.591	ppbv #	96
41) Tetrahydrofuran	3.052	42	141861	9.479	ppbv	99
42) Bromodichloromethane	4.489	83	296946	10.156	ppbv	96
43) Methyl Methacrylate	4.878	69	149209	9.458	ppbv	96
44) 2,2,4-Trimethylpentane	4.641	57	606376	10.030	ppbv	99
45) t-1,3-Dichloropropene	6.412	75	160750	9.975	ppbv	99

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042356.D
Acq On : 17 Apr 2025 13:43
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 18 02:15:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) cis-1,3-Dichloropropene	5.599	75	200144	10.148	ppbv		88
47) 1,1,2-Trichloroethane	6.583	97	135575	10.202	ppbv		95
48) Dibromochloromethane	7.389	129	237206	10.103	ppbv		100
49) Bromoform	9.483	173	205630	10.016	ppbv		99
50) 4-Methyl-2-Pentanone	5.748	43	376145	8.819	ppbv		99
51) 2-Hexanone	7.435	43	310521	8.118	ppbv	#	99
52) Tetrachloroethene	8.224	164	119424	8.827	ppbv		94
53) Toluene	6.933	91	419462	9.986	ppbv		99
54) 1,2-Dibromoethane	7.652	107	186231	9.792	ppbv		98
56) 1,1,1,2-Tetrachloroethane	8.927	131	182712	9.886	ppbv		97
57) Chlorobenzene	8.920	112	304533	9.589	ppbv		96
58) Ethyl Benzene	9.354	91	583515	9.645	ppbv		99
59) m/p-Xylene	9.532	91	932801m	19.139	ppbv		
60) o-Xylene	9.966	91	464522	9.465	ppbv		99
61) Styrene	9.872	104	229869	9.813	ppbv		98
62) Isopropylbenzene	10.539	105	685965	9.520	ppbv		100
63) 1,1,2,2-Tetrachloroethane	9.962	83	279007	8.773	ppbv		100
64) n-propylbenzene	10.992	120	172654	9.533	ppbv		99
65) tert-Butylbenzene	11.532	119	609500	9.203	ppbv		93
66) Benzyl Chloride	11.613	91	63051	8.664	ppbv		95
67) sec-Butylbenzene	11.769	105	853807	9.268	ppbv		99
69) p-Isopropyltoluene	11.927	119	737861	9.220	ppbv		99
70) n-Butylbenzene	12.283	91	771461	9.255	ppbv		100
71) 2-Chlorotoluene	10.901	91	543794	9.622	ppbv		98
72) 4-Ethyltoluene	11.124	105	563136	9.385	ppbv		100
73) 1,3,5-Trimethylbenzene	11.205	105	486583	9.186	ppbv		99
74) 1,2,4-Trimethylbenzene	11.539	105	531576	8.592	ppbv		97
75) 1,3-Dichlorobenzene	11.610	146	297157	9.240	ppbv		99
76) 1,4-Dichlorobenzene	11.671	146	297697	9.210	ppbv		98
77) 1,2-Dichlorobenzene	11.950	146	289284	9.251	ppbv		100
78) Hexachloro-1,3-Butadiene	13.882	225	276960	8.771	ppbv		100
79) Naphthalene	13.513	128	647349	8.750	ppbv		99
80) Naphthalene,2-methyl-	14.458	142	350259	8.307	ppbv		99
81) 1,2,4-Trichlorobenzene	13.442	180	290260	9.136	ppbv		99

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

Quantitation Report (QT Reviewed)

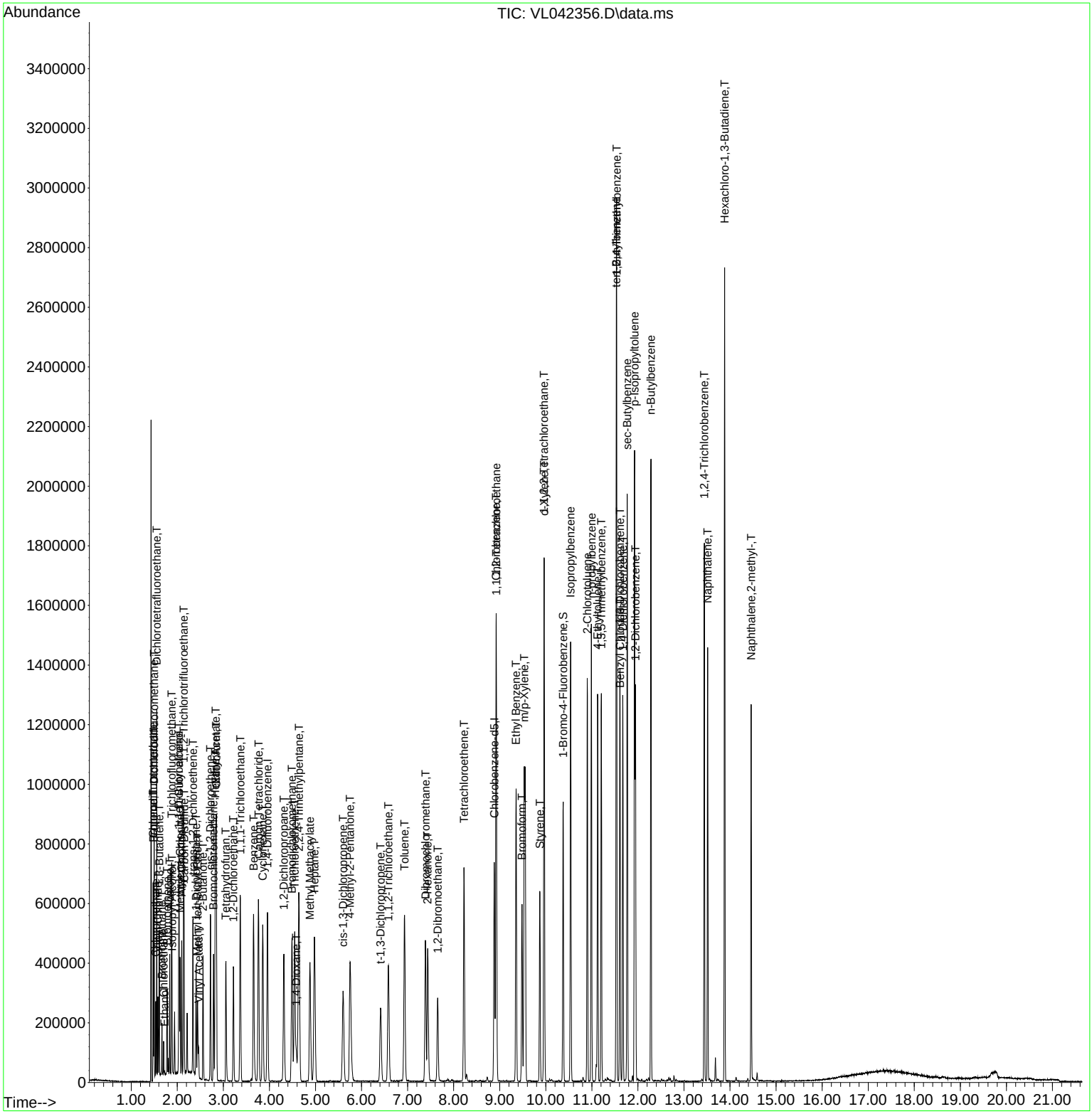
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042356.D
Acq On : 17 Apr 2025 13:43
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

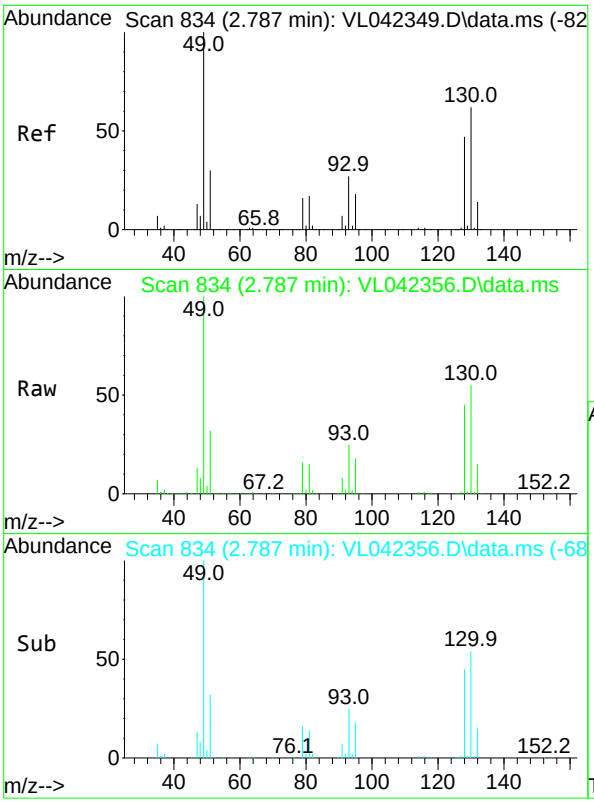
Quant Time: Apr 18 02:15:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

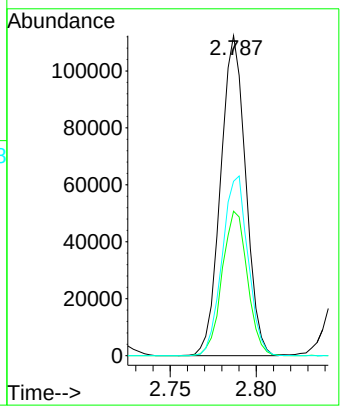




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 49 Resp: 11399

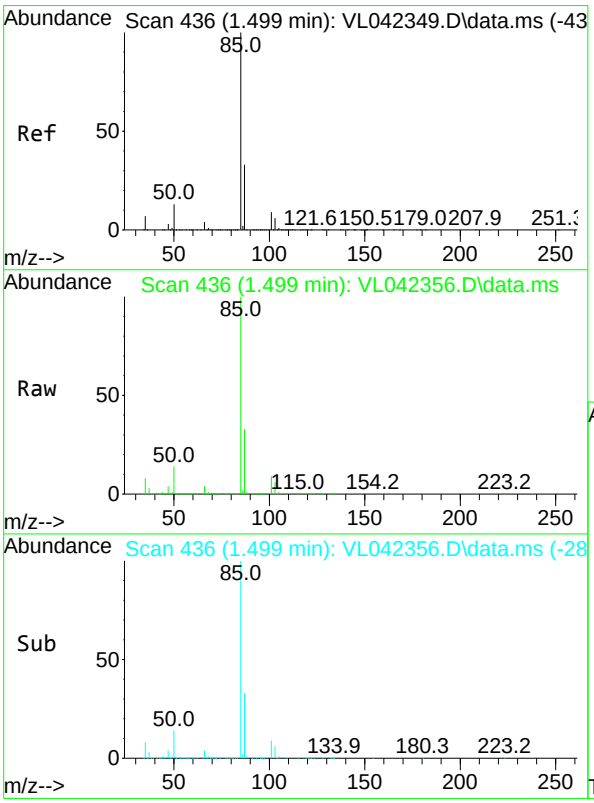
Ion	Ratio	Lower	Upper
49	100		
128	45.5	22.8	68.4
130	57.8	29.3	88.0



Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

Manual Integrations
APPROVED

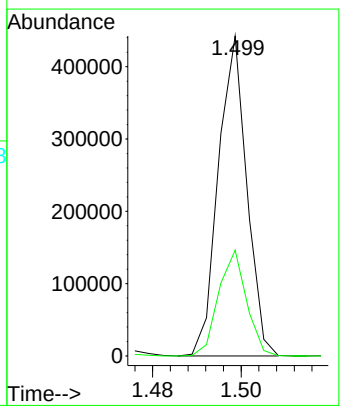
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

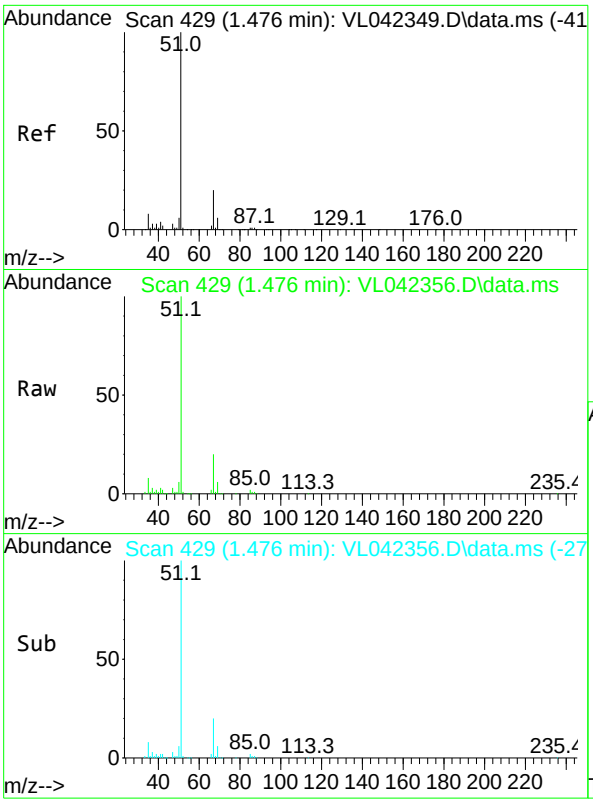


#2
Dichlorodifluoromethane
Concen: 9.812 ppbv
RT: 1.499 min Scan# 436
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 85 Resp: 197623

Ion	Ratio	Lower	Upper
85	100		
87	33.1	26.6	39.8

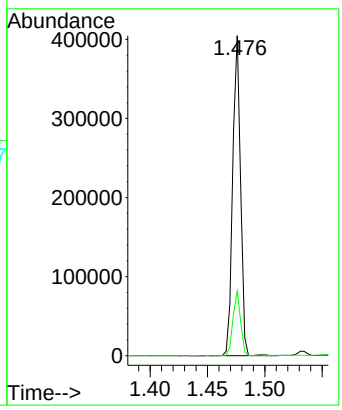




#3
Chlorodifluoromethane
Concen: 9.960 ppbv
RT: 1.476 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 51 Resp: 19101

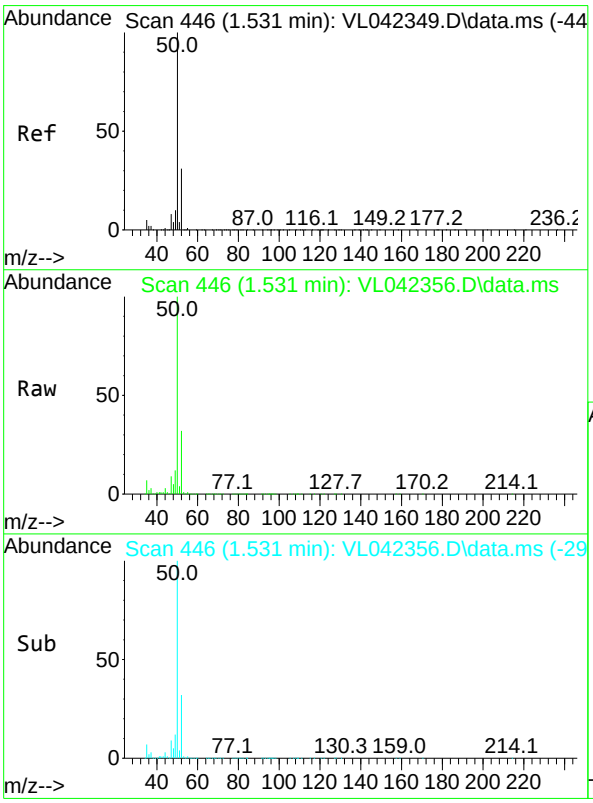
Ion	Ratio	Lower	Upper
51	100		
67	19.6	16.2	24.4



Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

Manual Integrations
APPROVED

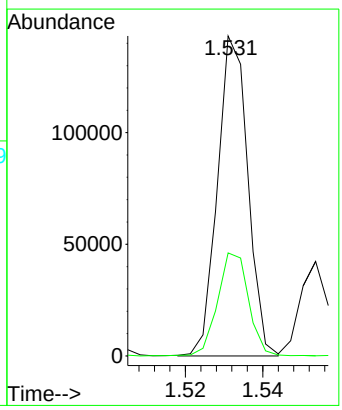
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

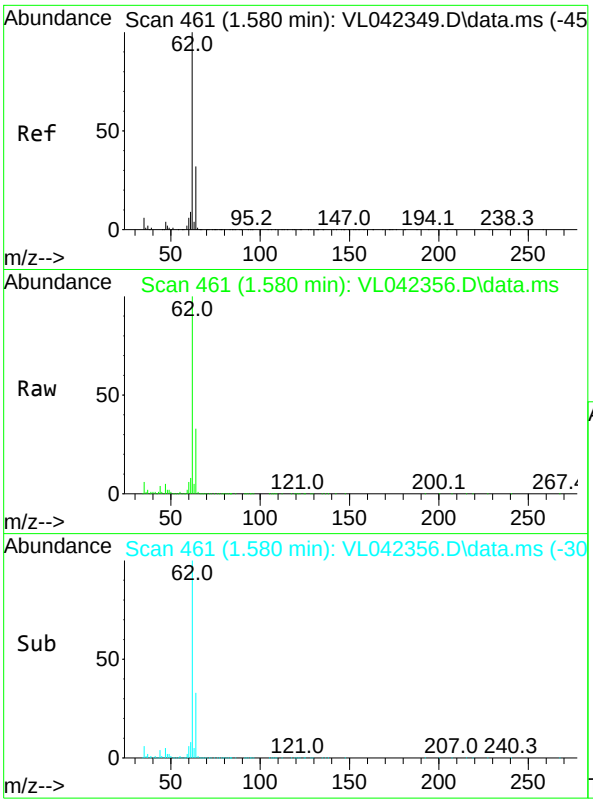


#4
Chloromethane
Concen: 9.796 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 50 Resp: 78080

Ion	Ratio	Lower	Upper
50	100		
52	32.0	24.7	37.1

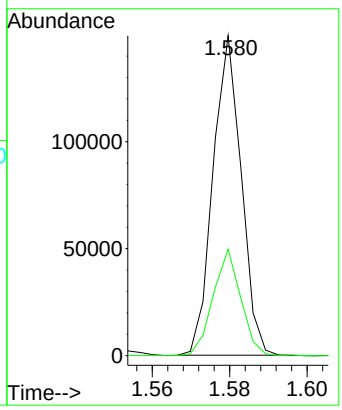




#5
Vinyl Chloride
Concen: 8.717 ppbv
RT: 1.580 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 62 Resp: 7562

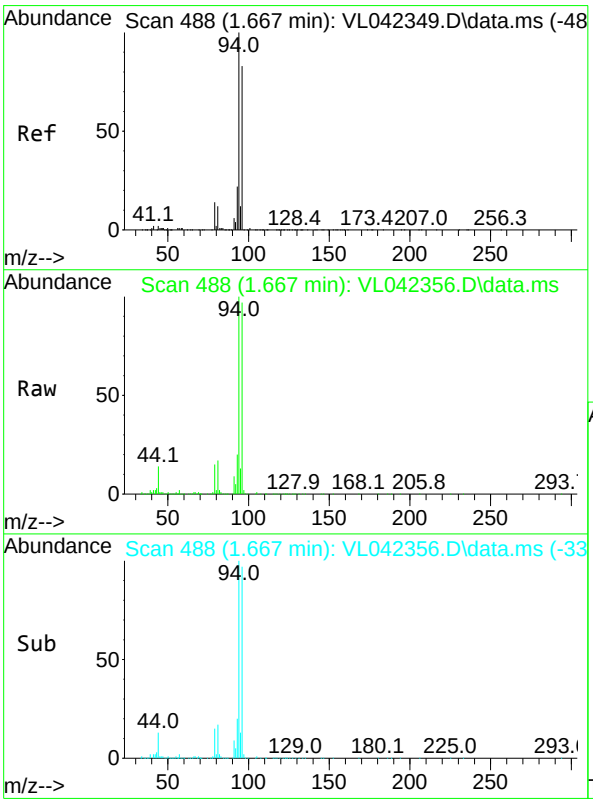
Ion	Ratio	Lower	Upper
62	100		
64	33.3	25.4	38.0



Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

Manual Integrations
APPROVED

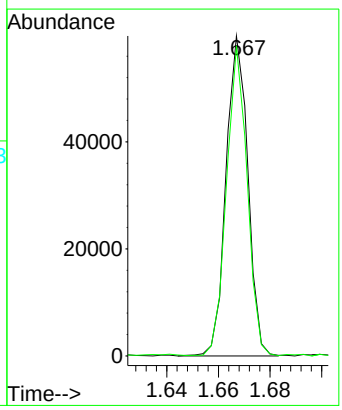
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

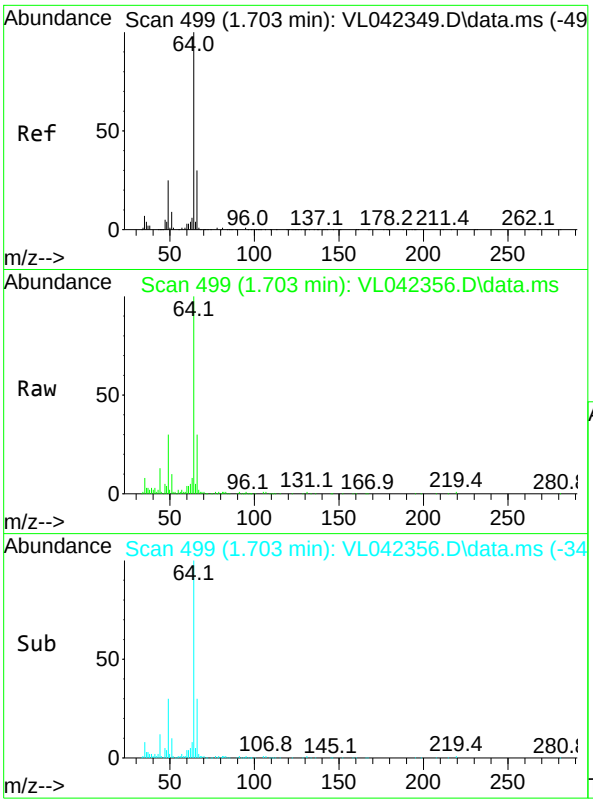


#6
Bromomethane
Concen: 9.422 ppbv
RT: 1.667 min Scan# 488
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 94 Resp: 35115

Ion	Ratio	Lower	Upper
94	100		
96	96.8	66.2	99.2

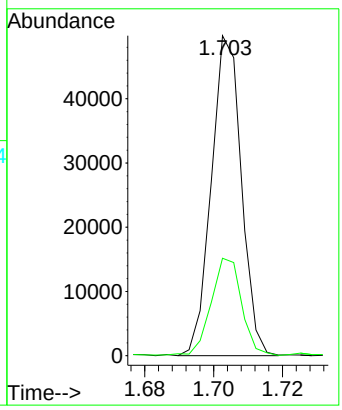




#7
Chloroethane
Concen: 9.612 ppbv
RT: 1.703 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 64 Resp: 3015

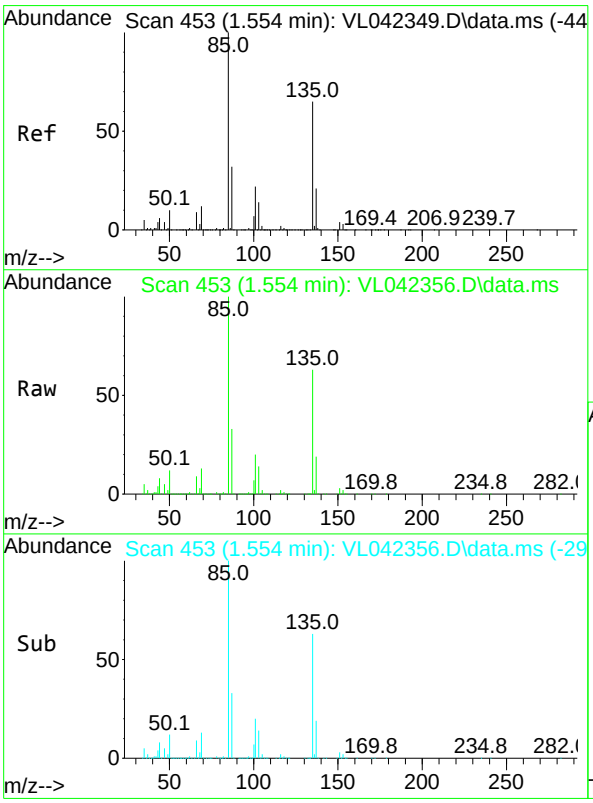
Ion	Ratio	Lower	Upper
64	100		
66	30.4	24.6	37.0



Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

Manual Integrations
APPROVED

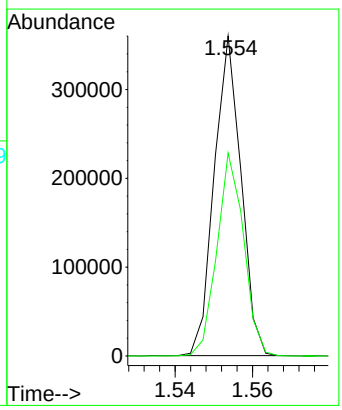
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

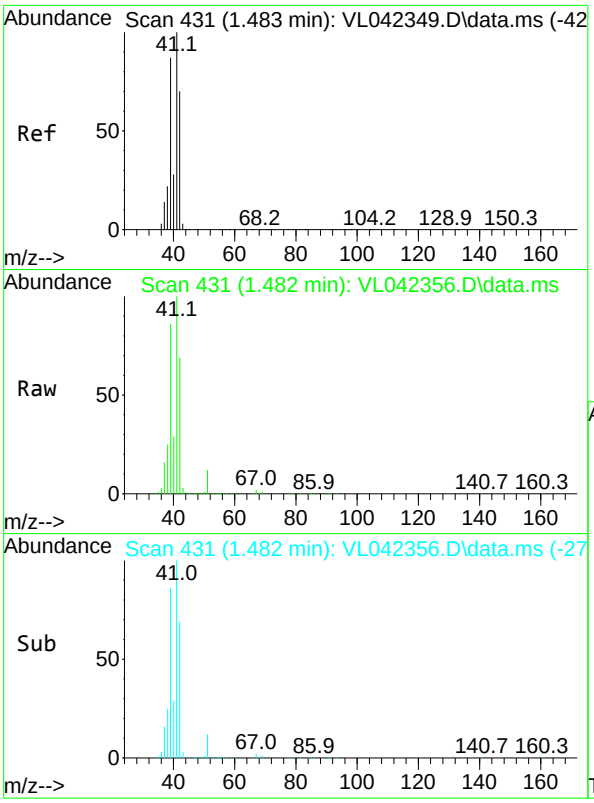


#8
Dichlorotetrafluoroethane
Concen: 9.997 ppbv
RT: 1.554 min Scan# 453
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 85 Resp: 172863

Ion	Ratio	Lower	Upper
85	100		
135	63.5	52.2	78.2

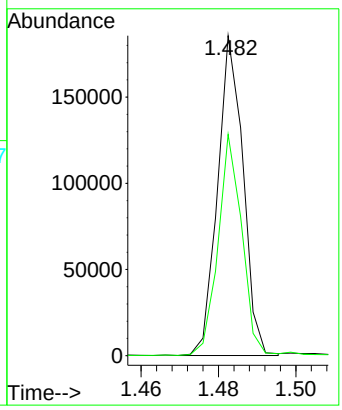




#9
Propene
Concen: 9.690 ppbv
RT: 1.482 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 41 Resp: 8463

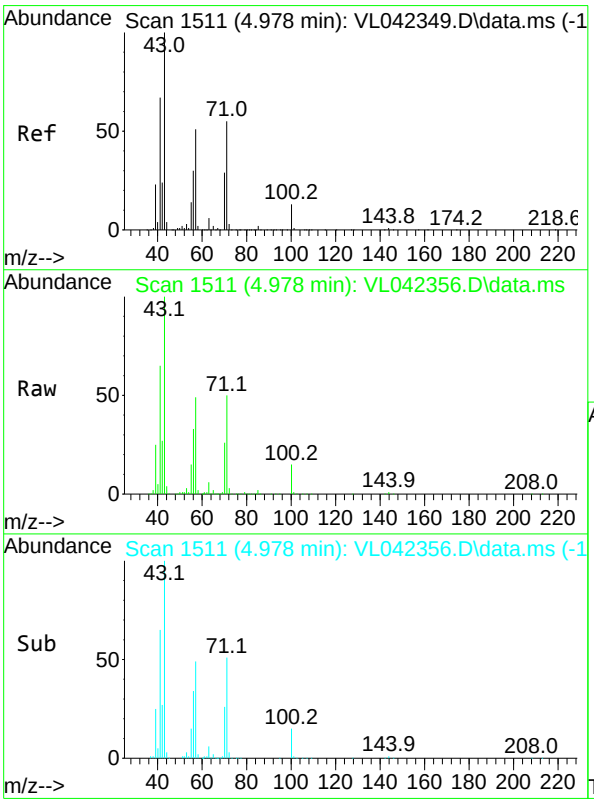
Ion	Ratio	Lower	Upper
41	100		
42	65.8	56.2	84.4



Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

Manual Integrations
APPROVED

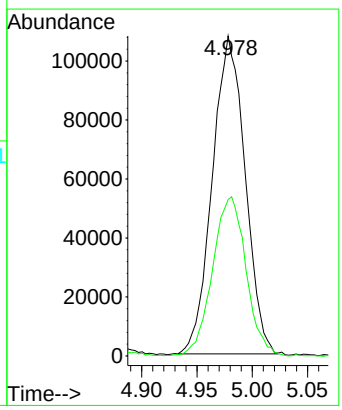
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

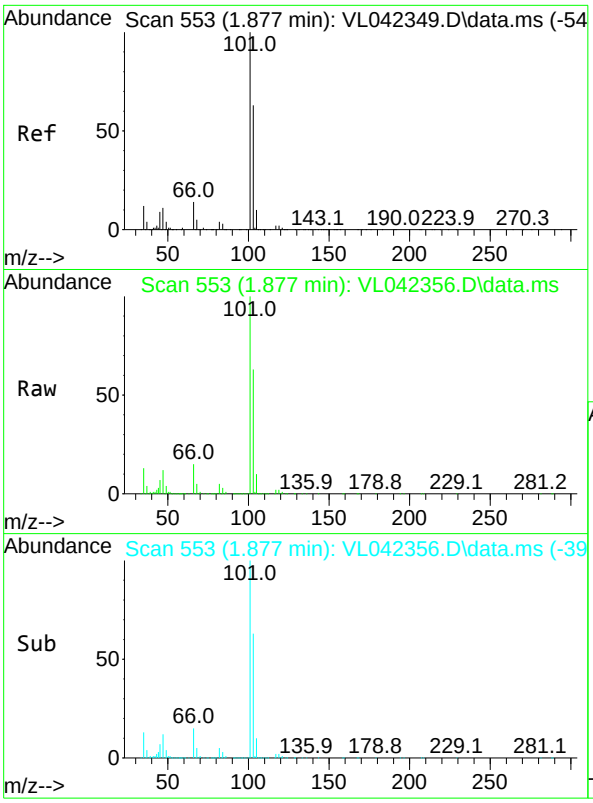


#10
Heptane
Concen: 9.041 ppbv
RT: 4.978 min Scan# 1511
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 43 Resp: 221840

Ion	Ratio	Lower	Upper
43	100		
57	51.4	39.9	59.9

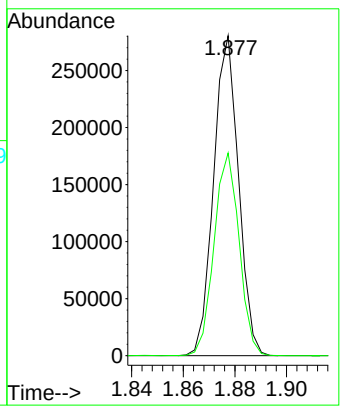




#11
Trichlorofluoromethane
Concen: 9.807 ppbv
RT: 1.877 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion:101 Resp: 18782

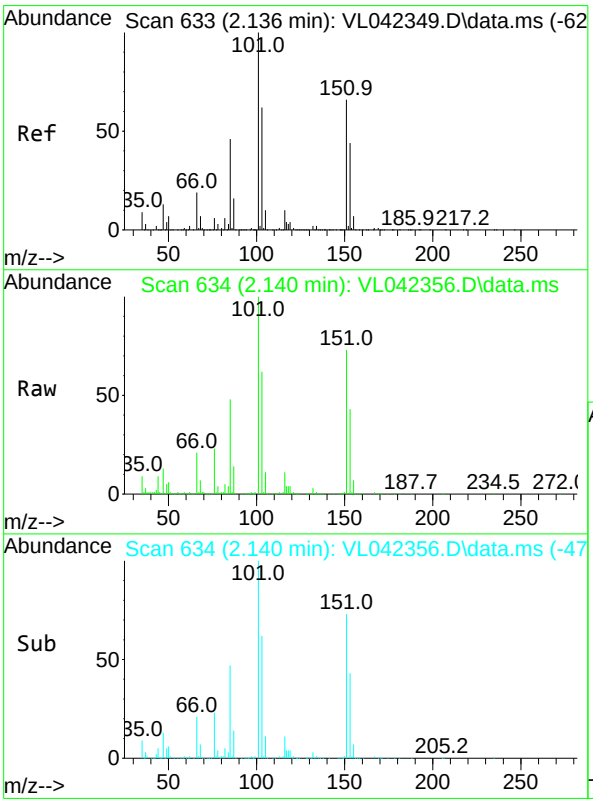
Ion	Ratio	Lower	Upper
101	100		
103	63.3	50.1	75.1



Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

Manual Integrations
APPROVED

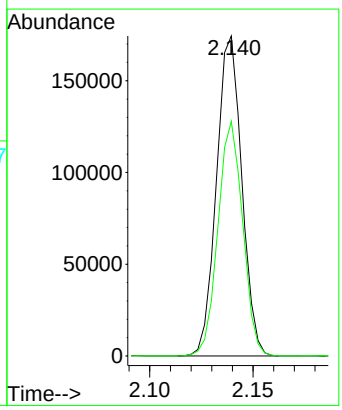
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

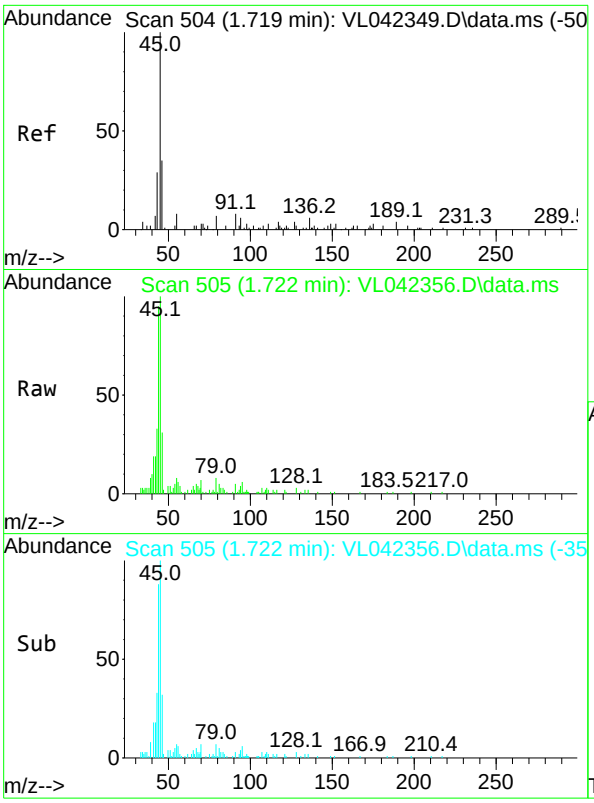


#12
1,1,2-Trichlorotrifluoroethane
Concen: 9.482 ppbv
RT: 2.140 min Scan# 634
Delta R.T. 0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion:101 Resp: 148485

Ion	Ratio	Lower	Upper
101	100		
151	71.7	57.0	85.6

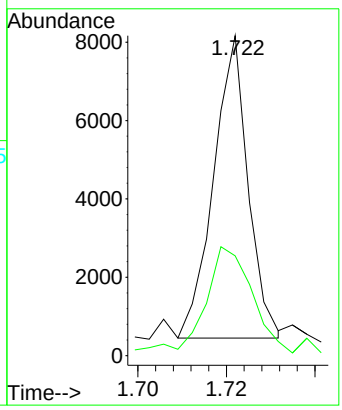




#13
Ethanol
Concen: 3.005 ppbv
RT: 1.722 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 45 Resp: 417

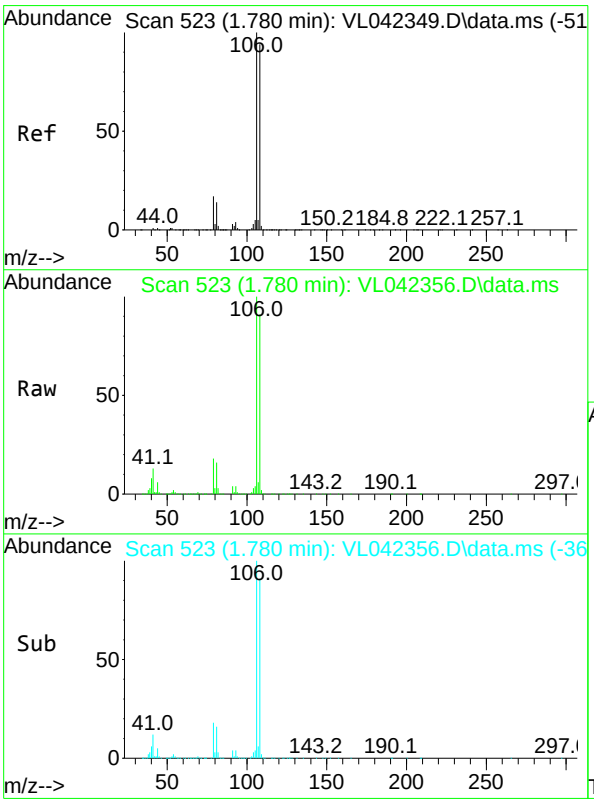
Ion	Ratio	Lower	Upper
45	100		
46	57.0	21.9	87.7



Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

Manual Integrations
APPROVED

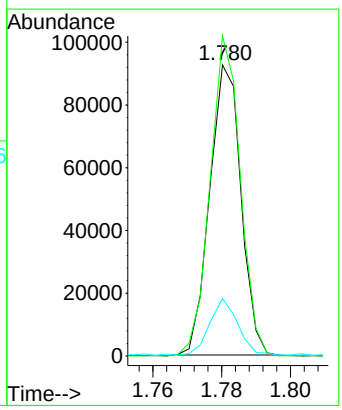
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

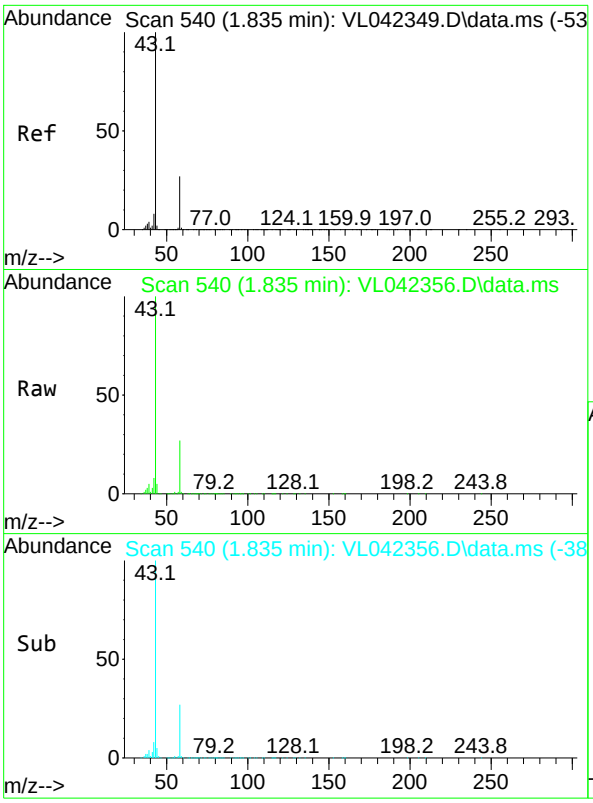


#14
Bromoethene
Concen: 9.880 ppbv
RT: 1.780 min Scan# 523
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion:108 Resp: 58320

Ion	Ratio	Lower	Upper
108	100		
106	107.1	85.9	128.9
79	18.4	13.9	20.9

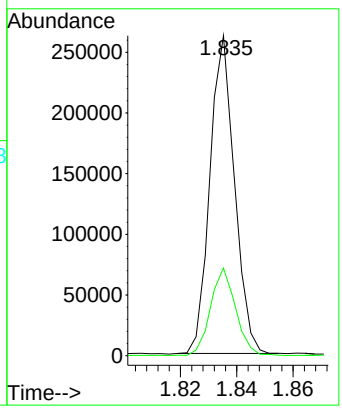




#15
Acetone
Concen: 8.505 ppbv
RT: 1.835 min Scan# 54
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 43 Resp: 15870

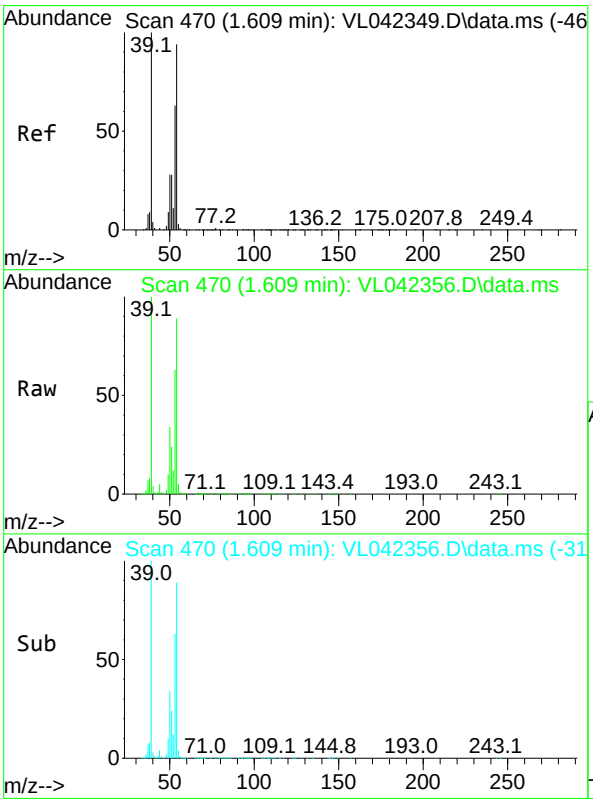
Ion	Ratio	Lower	Upper
43	100		
58	28.0	22.4	33.6



Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

Manual Integrations
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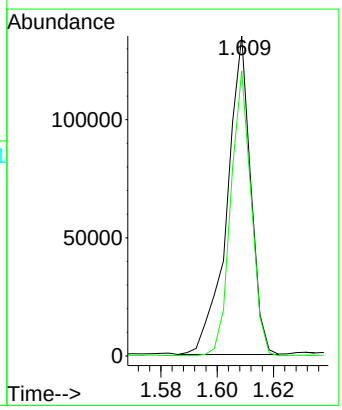
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

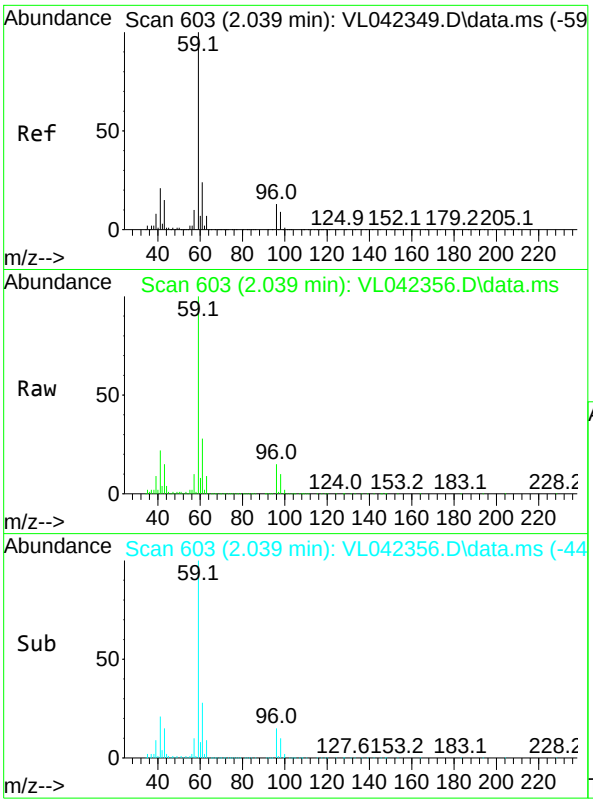


#16
1,3-Butadiene
Concen: 8.829 ppbv
RT: 1.609 min Scan# 470
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 39 Resp: 78804

Ion	Ratio	Lower	Upper
39	100		
54	77.1	64.9	97.3

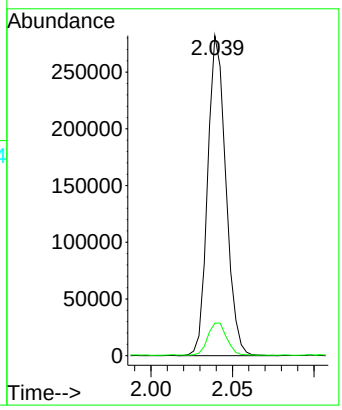




#17
tert-Butyl alcohol
Concen: 9.468 ppbv
RT: 2.039 min Scan# 6
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 59 Resp: 21895

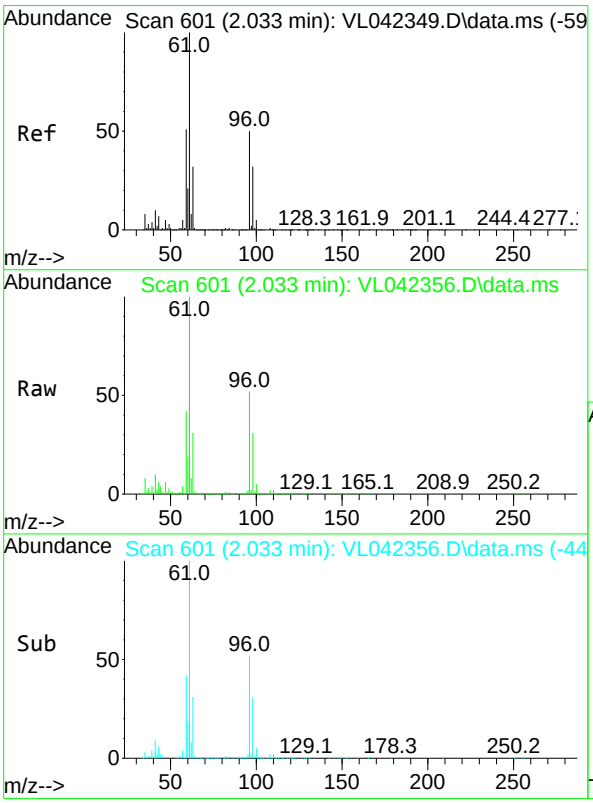
Ion	Ratio	Lower	Upper
59	100		
57	10.6	8.7	13.1



Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

Manual Integrations
APPROVED

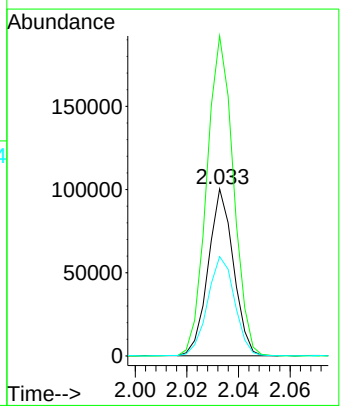
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

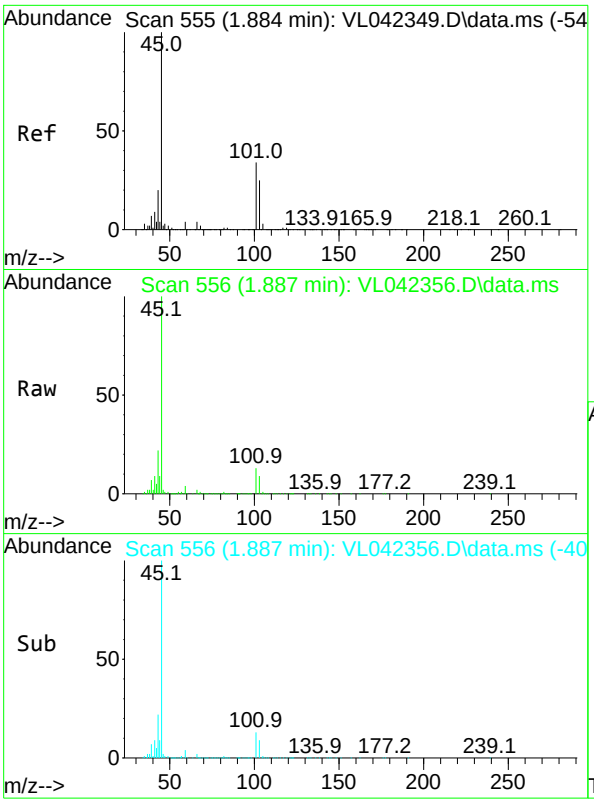


#18
1,1-Dichloroethene
Concen: 9.287 ppbv
RT: 2.033 min Scan# 601
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 96 Resp: 67940

Ion	Ratio	Lower	Upper
96	100		
61	191.6	160.2	240.2
98	59.4	51.0	76.4

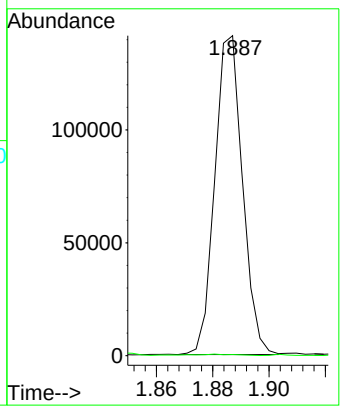




#19
Isopropyl Alcohol
Concen: 9.296 ppbv
RT: 1.887 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 45 Resp: 9636

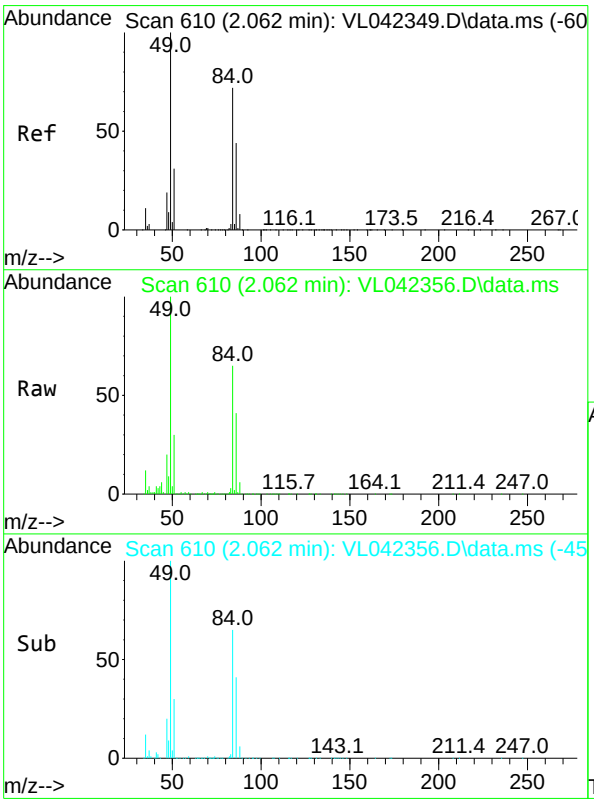
Ion	Ratio	Lower	Upper
45	100		
58	46.1	34.5	51.7



Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

Manual Integrations
APPROVED

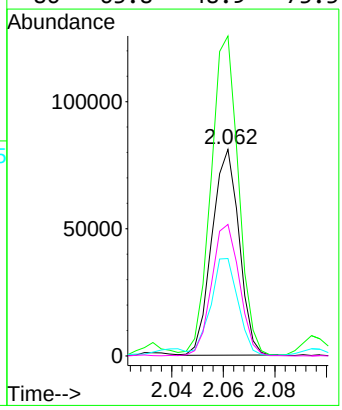
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

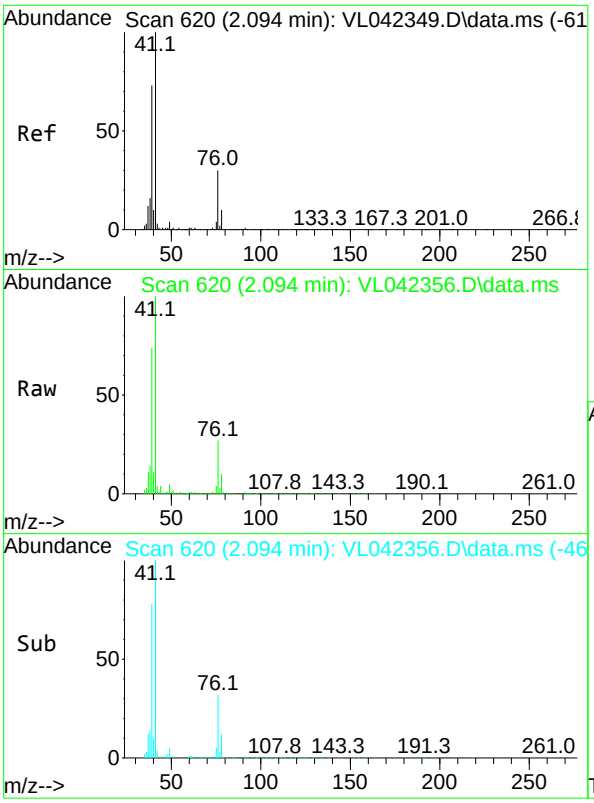


#20
Methylene Chloride
Concen: 8.101 ppbv
RT: 2.062 min Scan# 610
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 84 Resp: 59203

Ion	Ratio	Lower	Upper
84	100		
49	155.3	111.6	167.4
51	47.0	35.1	52.7
86	63.8	48.9	73.3

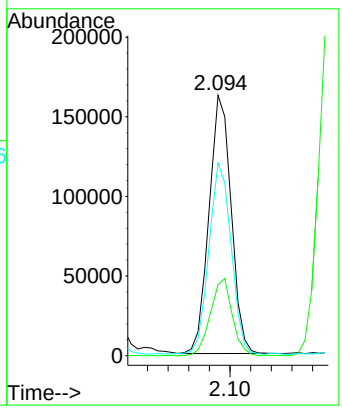




#21
Allyl Chloride
Concen: 9.368 ppbv
RT: 2.094 min Scan# 6
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 41 Resp: 12070

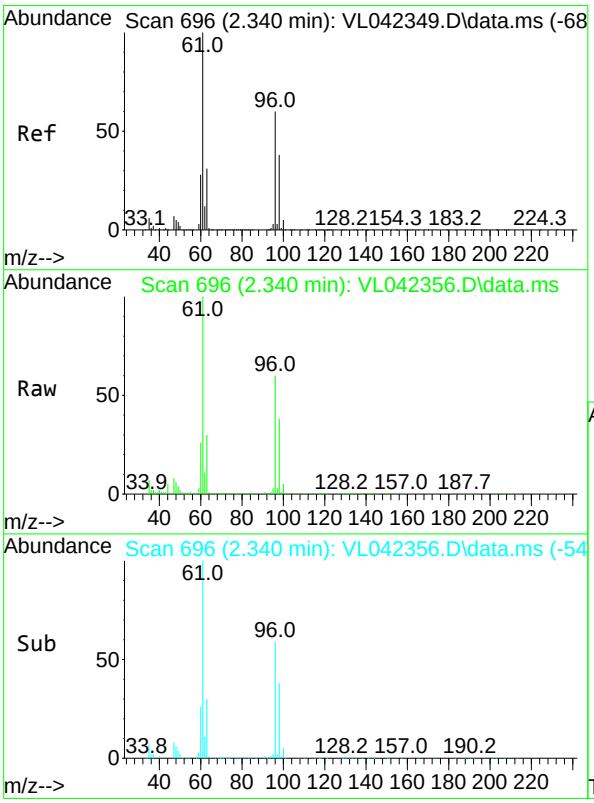
Ion	Ratio	Lower	Upper
41	100		
76	29.5	24.8	37.2
39	74.5	60.6	90.8



Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

Manual Integrations APPROVED

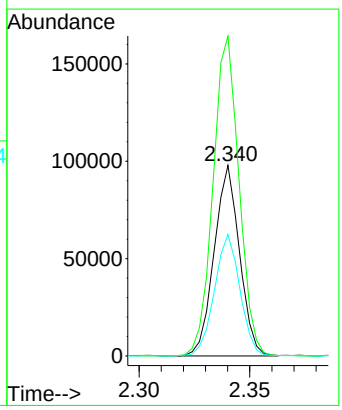
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

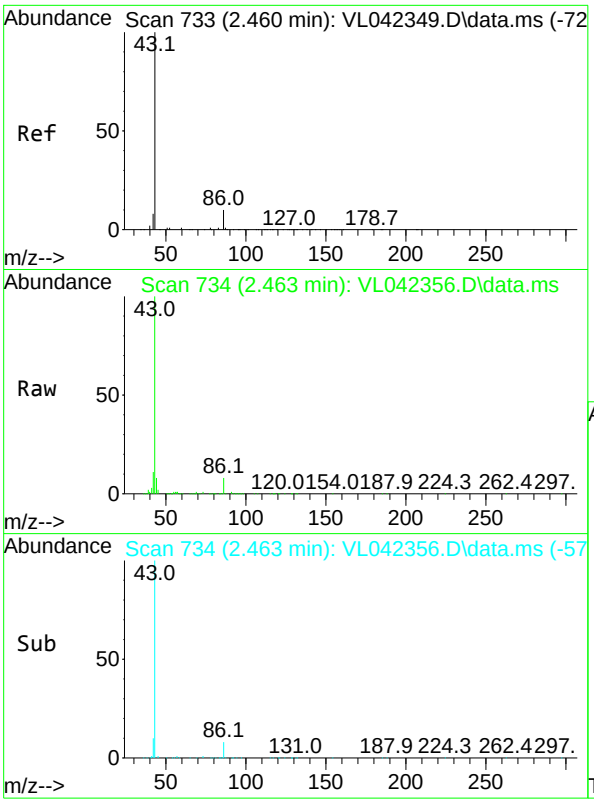


#22
trans-1,2-Dichloroethene
Concen: 9.373 ppbv
RT: 2.340 min Scan# 696
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 96 Resp: 78070

Ion	Ratio	Lower	Upper
96	100		
61	167.7	133.7	200.5
98	63.5	50.3	75.5

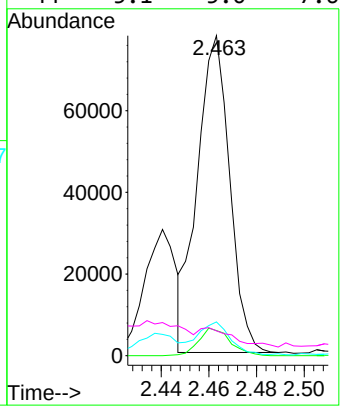




#23
Vinyl Acetate
Concen: 9.714 ppbv
RT: 2.463 min Scan# 7
Delta R.T. 0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 43 Resp: 7337

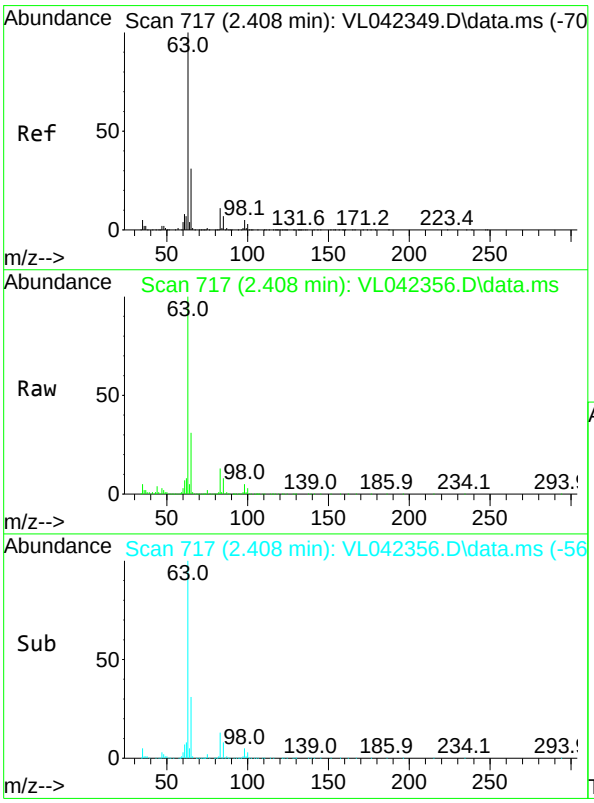
Ion	Ratio	Lower	Upper
43	100		
86	8.0	6.5	9.7
42	10.0	7.8	11.8
44	5.1	5.0	7.6



Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

Manual Integrations
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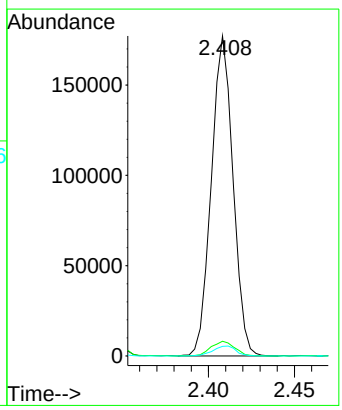
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

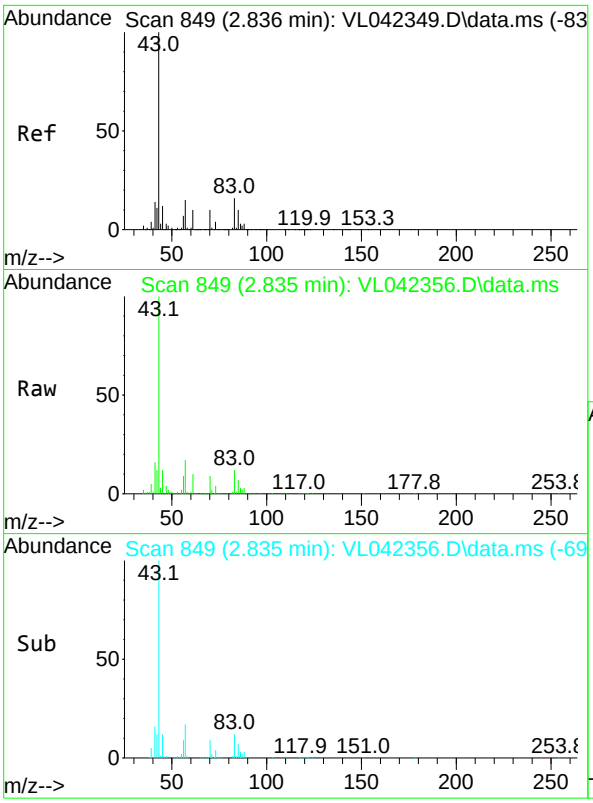


#24
1,1-Dichloroethane
Concen: 9.832 ppbv
RT: 2.408 min Scan# 717
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 63 Resp: 155571

Ion	Ratio	Lower	Upper
63	100		
98	4.6	2.3	6.8
100	3.0	1.6	4.8

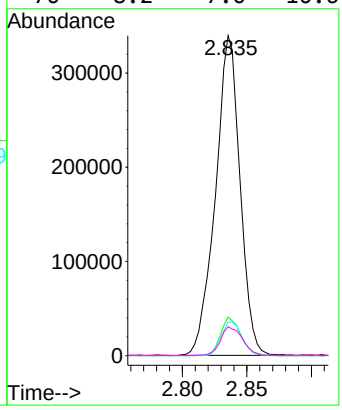




#25
Ethyl Acetate
Concen: 9.759 ppbv
RT: 2.835 min Scan# 84
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 43 Resp: 449014

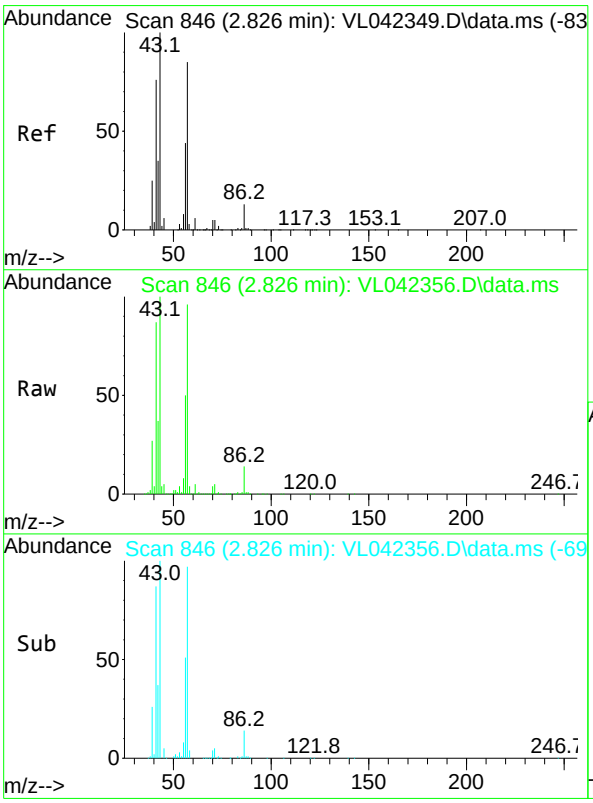
Ion	Ratio	Lower	Upper
43	100		
45	9.9	8.3	12.5
61	9.0	7.3	10.9
70	8.2	7.0	10.6



Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

Manual Integrations
APPROVED

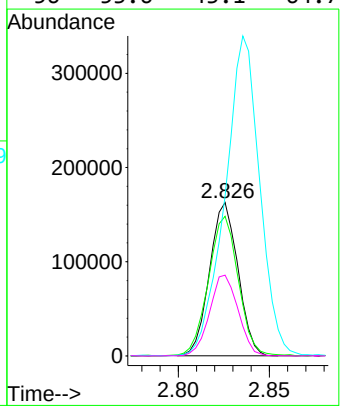
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

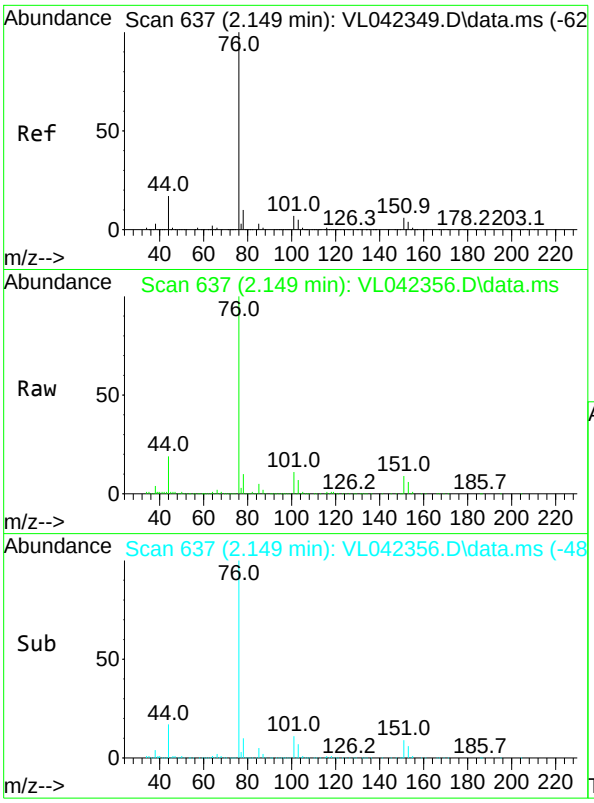


#26
Hexane
Concen: 9.439 ppbv
RT: 2.826 min Scan# 846
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 57 Resp: 175752

Ion	Ratio	Lower	Upper
57	100		
41	96.6	77.9	116.9
43	256.0	208.4	312.6
56	53.6	43.1	64.7

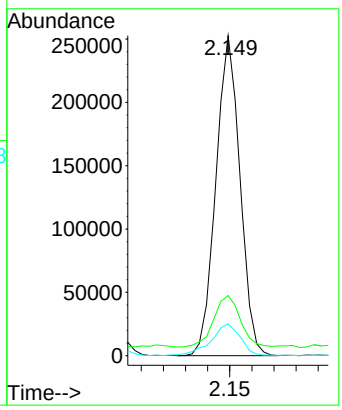




#27
Carbon Disulfide
Concen: 9.587 ppbv
RT: 2.149 min Scan# 6
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 76 Resp: 19111

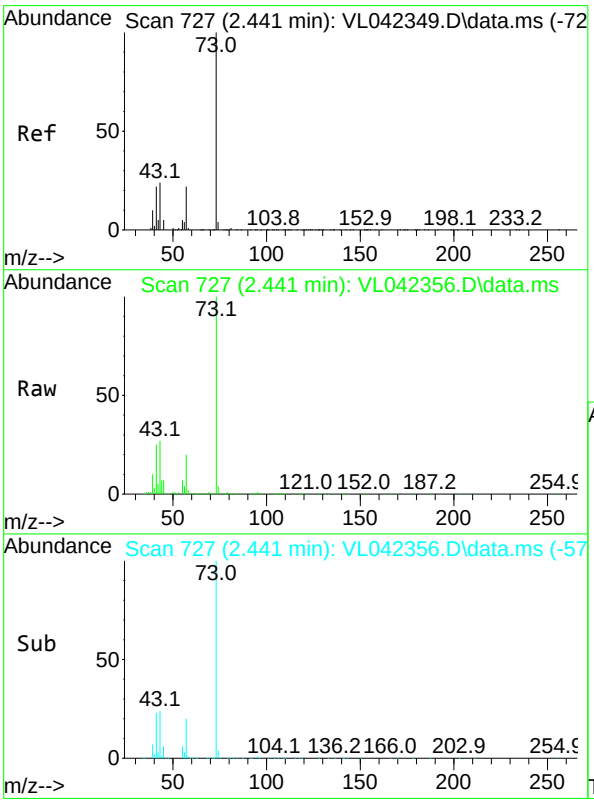
Ion	Ratio	Lower	Upper
76	100		
44	19.3	15.5	23.3
78	11.9	9.3	13.9



Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

Manual Integrations
APPROVED

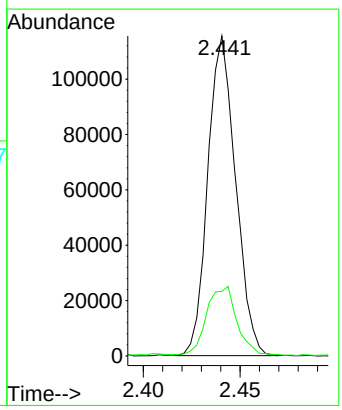
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

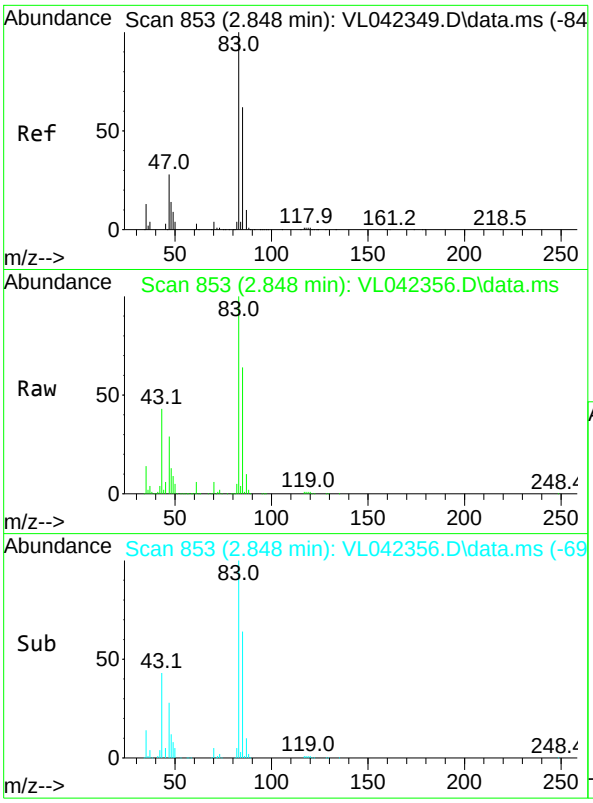


#28
Methyl tert-Butyl Ether
Concen: 9.442 ppbv
RT: 2.441 min Scan# 727
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 73 Resp: 115190

Ion	Ratio	Lower	Upper
73	100		
57	23.4	21.3	31.9

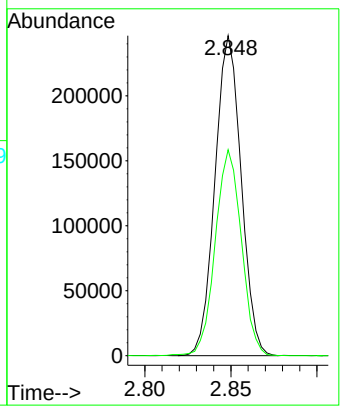




#29
Chloroform
Concen: 9.912 ppbv
RT: 2.848 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 83 Resp: 26085

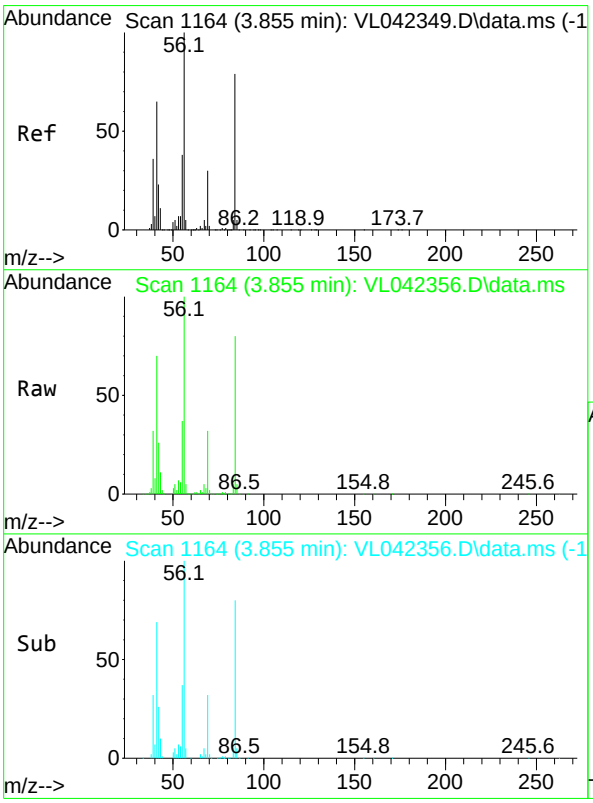
Ion	Ratio	Lower	Upper
83	100		
85	64.3	50.0	75.0



Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

Manual Integrations
APPROVED

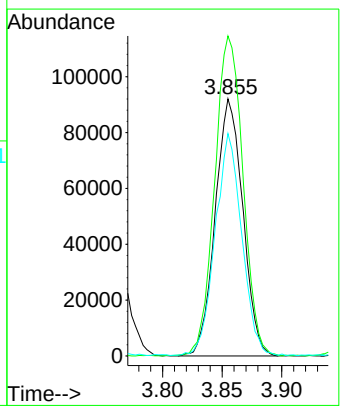
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

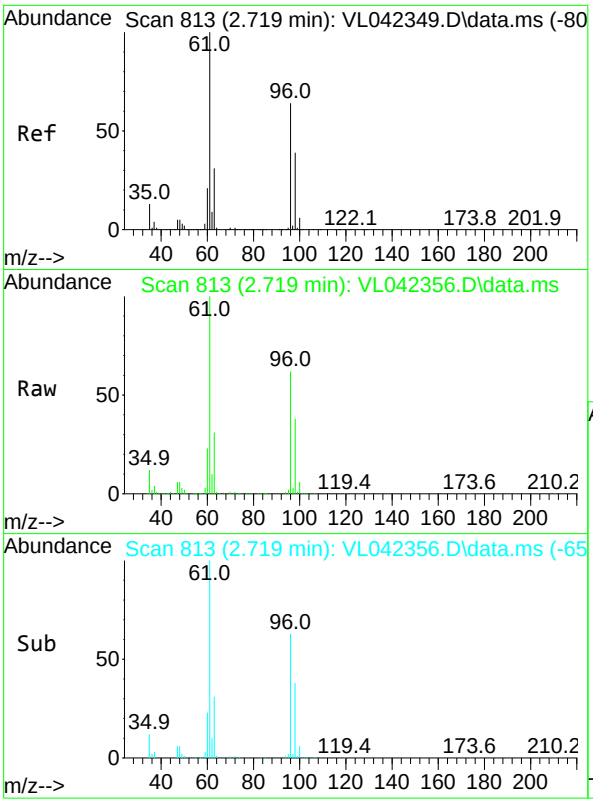


#30
Cyclohexane
Concen: 9.849 ppbv
RT: 3.855 min Scan# 1164
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 84 Resp: 148246

Ion	Ratio	Lower	Upper
84	100		
56	127.7	101.0	151.4
41	83.2	67.4	101.0

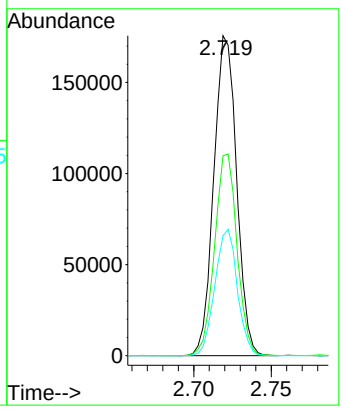




#31
cis-1,2-Dichloroethene
Concen: 10.167 ppbv
RT: 2.719 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 61 Resp: 17999

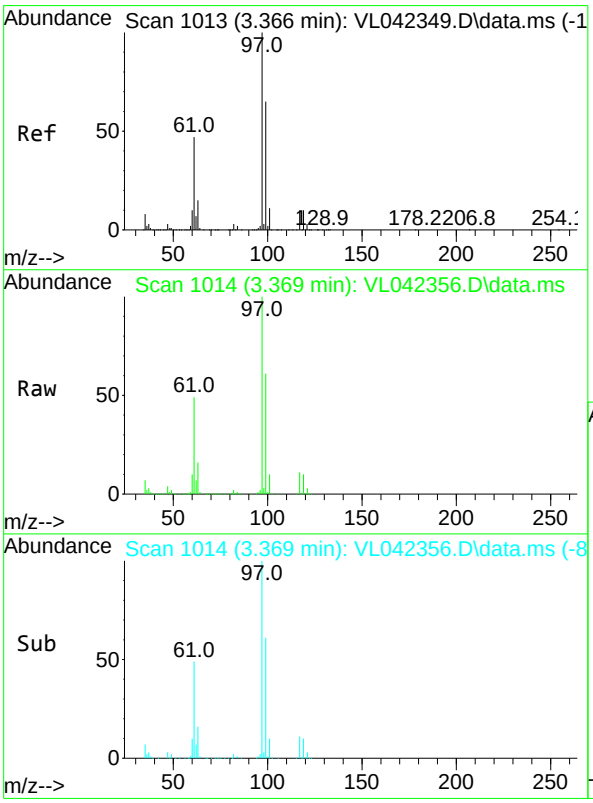
Ion	Ratio	Lower	Upper
61	100		
96	62.5	50.8	76.2
98	37.5	30.9	46.3



Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

Manual Integrations
APPROVED

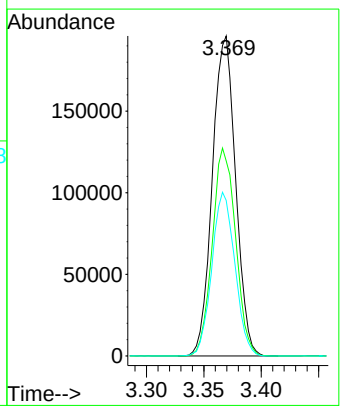
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

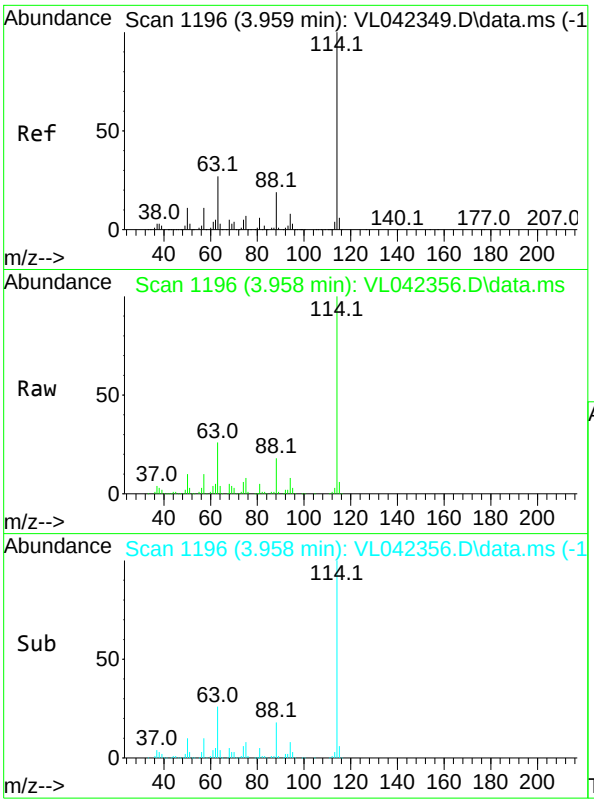


#32
1,1,1-Trichloroethane
Concen: 9.336 ppbv
RT: 3.369 min Scan# 1014
Delta R.T. 0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 97 Resp: 276599

Ion	Ratio	Lower	Upper
97	100		
99	65.0	51.0	76.4
61	50.7	38.8	58.2

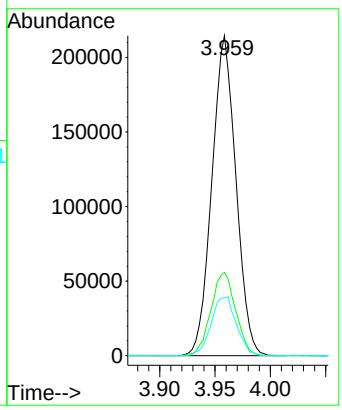




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.958 min Scan# 1
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion:114 Resp: 32452

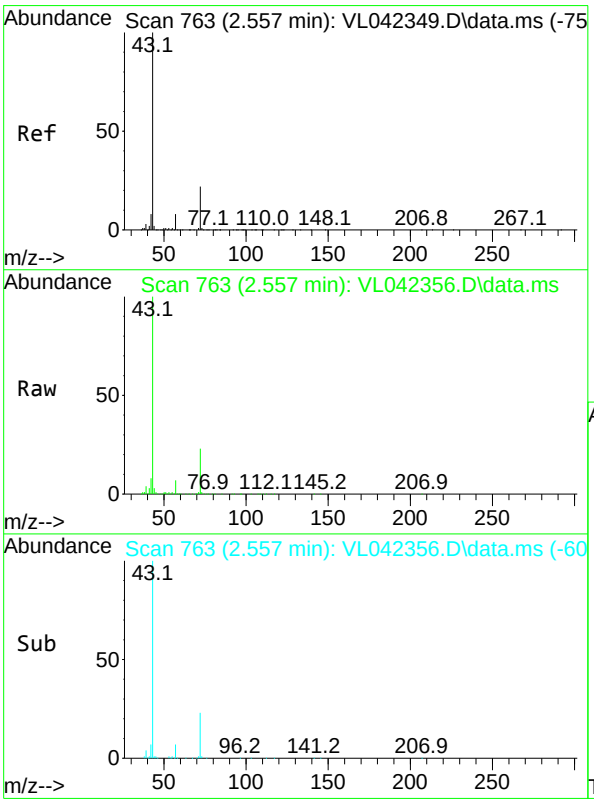
Ion	Ratio	Lower	Upper
114	100		
63	26.8	21.8	32.6
88	19.2	15.5	23.3



Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

Manual Integrations
APPROVED

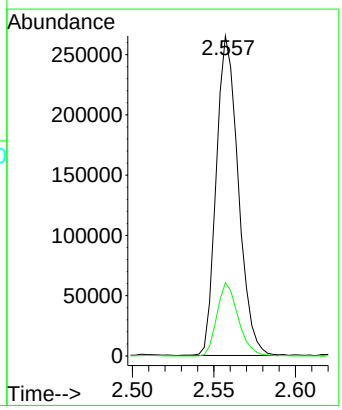
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

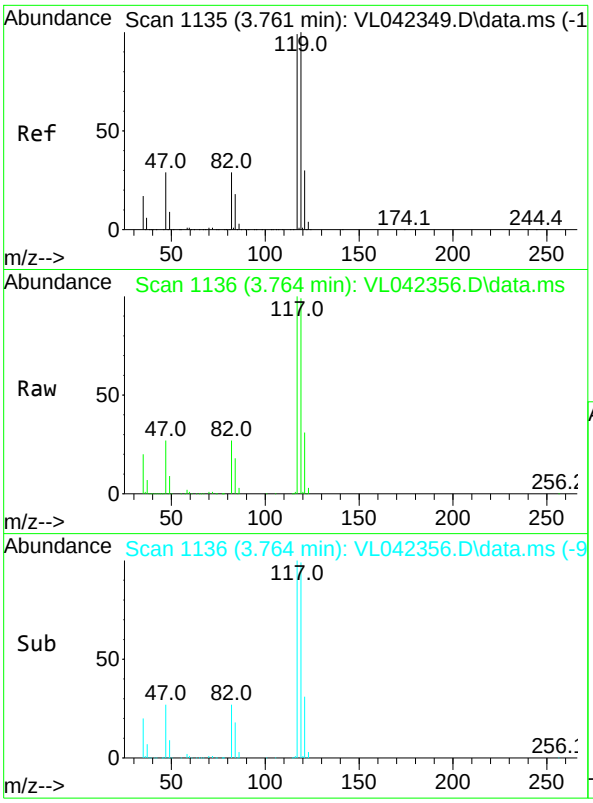


#34
2-Butanone
Concen: 9.700 ppbv
RT: 2.557 min Scan# 763
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 43 Resp: 248969

Ion	Ratio	Lower	Upper
43	100		
72	22.1	18.2	27.2

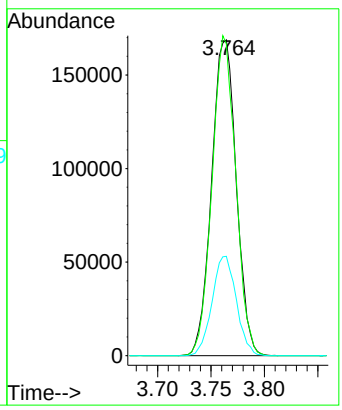




#35
Carbon Tetrachloride
Concen: 9.256 ppbv
RT: 3.764 min Scan# 1
Delta R.T. 0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion:117 Resp: 27186

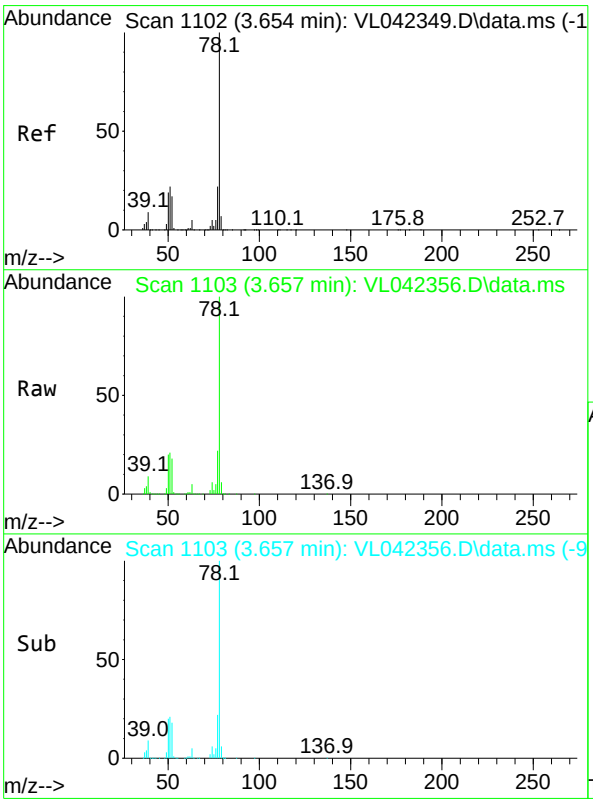
Ion	Ratio	Lower	Upper
117	100		
119	98.7	80.5	120.7
121	31.5	24.2	36.2



Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

Manual Integrations
APPROVED

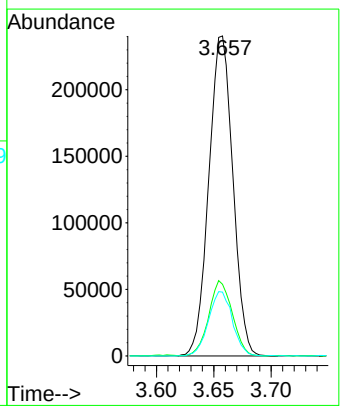
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

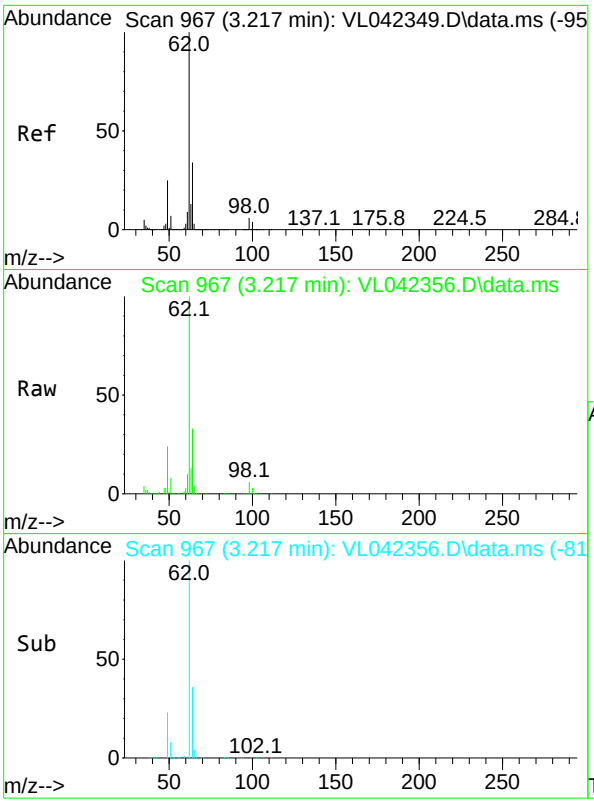


#36
Benzene
Concen: 10.014 ppbv
RT: 3.657 min Scan# 1103
Delta R.T. 0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 78 Resp: 350545

Ion	Ratio	Lower	Upper
78	100		
77	22.3	17.4	26.0
50	19.9	15.5	23.3

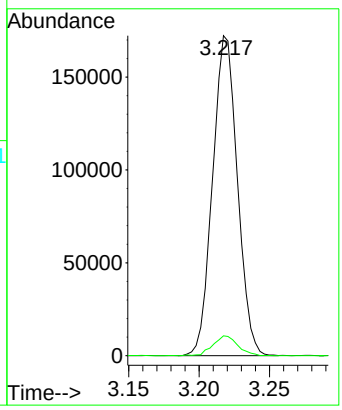




#37
1,2-Dichloroethane
Concen: 10.081 ppbv
RT: 3.217 min Scan# 9
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 62 Resp: 21179

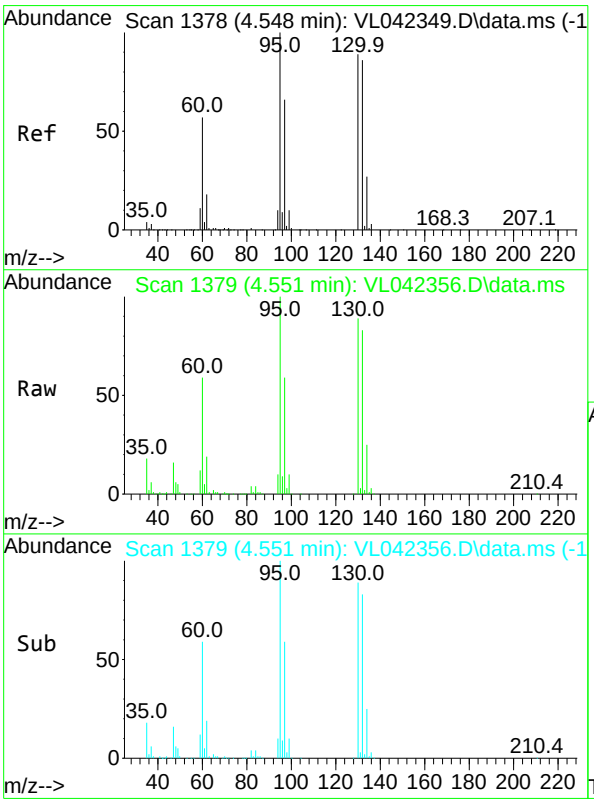
Ion	Ratio	Lower	Upper
62	100		
98	6.2	5.1	7.7



Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

Manual Integrations
APPROVED

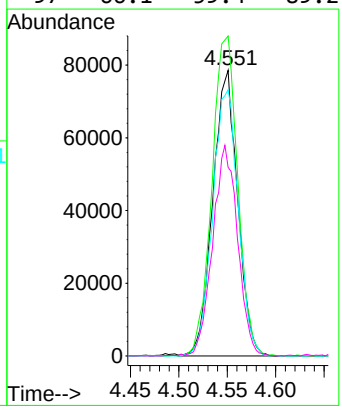
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

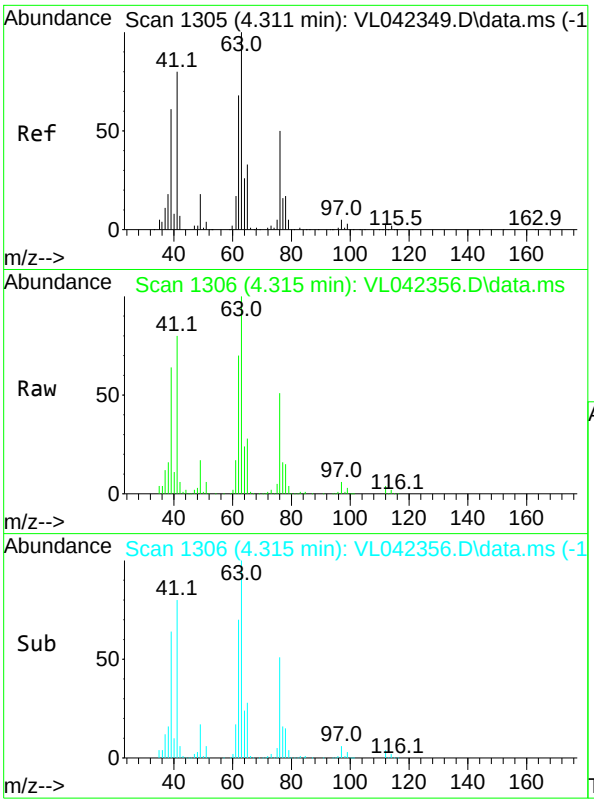


#38
Trichloroethene
Concen: 9.143 ppbv
RT: 4.551 min Scan# 1379
Delta R.T. 0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion:130 Resp: 139872

Ion	Ratio	Lower	Upper
130	100		
95	112.0	89.8	134.6
132	93.2	77.7	116.5
97	66.1	59.4	89.2

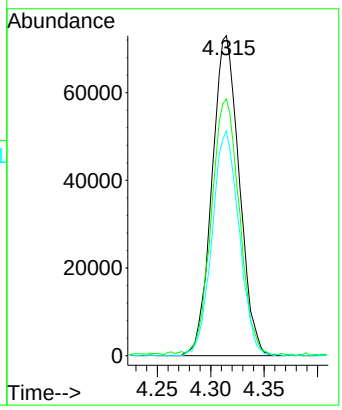




#39
1,2-Dichloropropane
Concen: 9.908 ppbv
RT: 4.315 min Scan# 1
Delta R.T. 0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 63 Resp: 12923

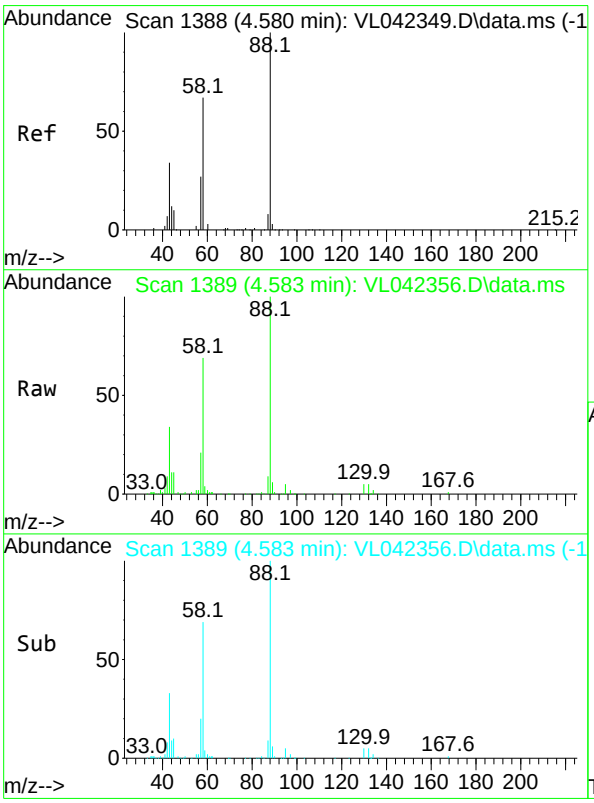
Ion	Ratio	Lower	Upper
63	100		
41	79.9	64.2	96.2
62	70.2	54.3	81.5



Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

Manual Integrations
APPROVED

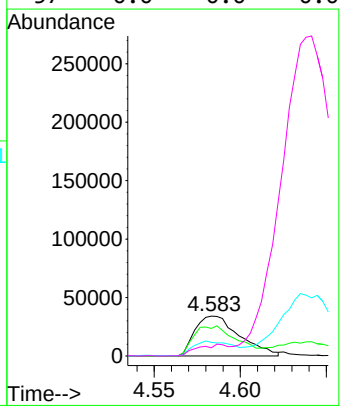
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

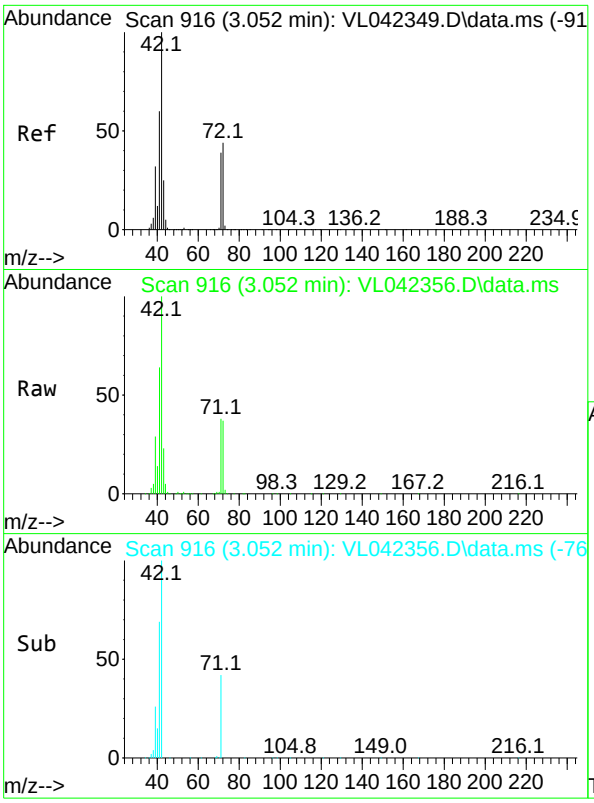


#40
1,4-Dioxane
Concen: 8.591 ppbv
RT: 4.583 min Scan# 1389
Delta R.T. 0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 88 Resp: 61587

Ion	Ratio	Lower	Upper
88	100		
58	76.1	61.4	92.0
43	35.9	23.2	34.8#
57	0.0	0.0	0.0

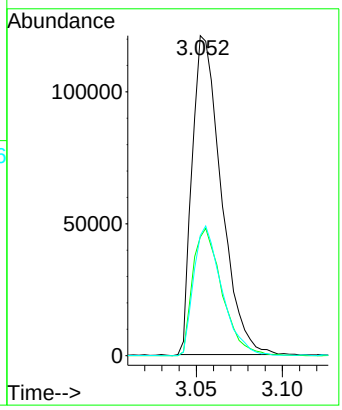




#41
Tetrahydrofuran
Concen: 9.479 ppbv
RT: 3.052 min Scan# 9
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 42 Resp: 14186

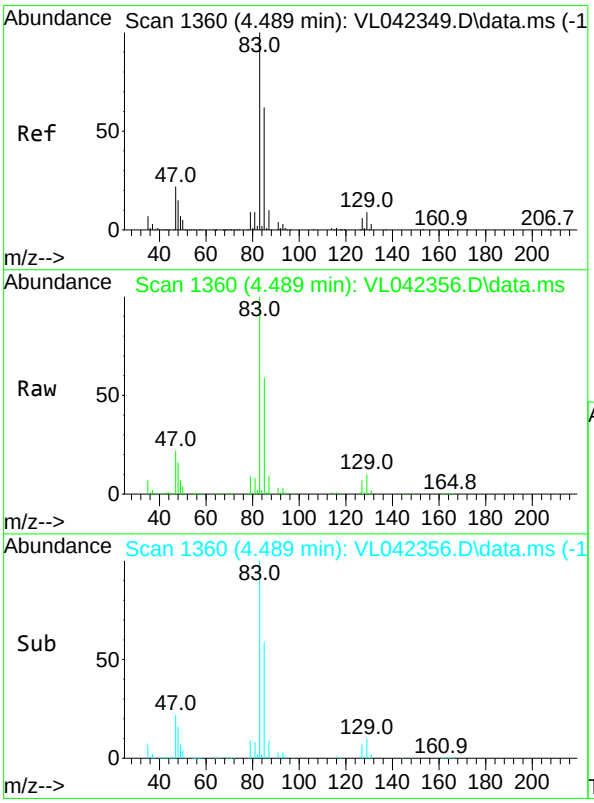
Ion	Ratio	Lower	Upper
42	100		
72	40.2	32.3	48.5
71	39.8	31.4	47.2



Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

Manual Integrations
APPROVED

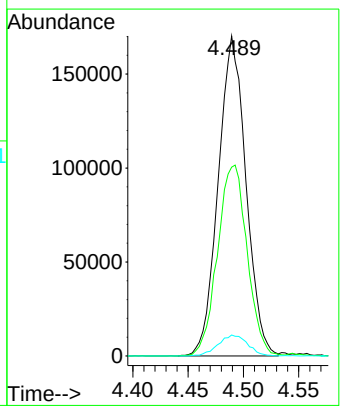
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

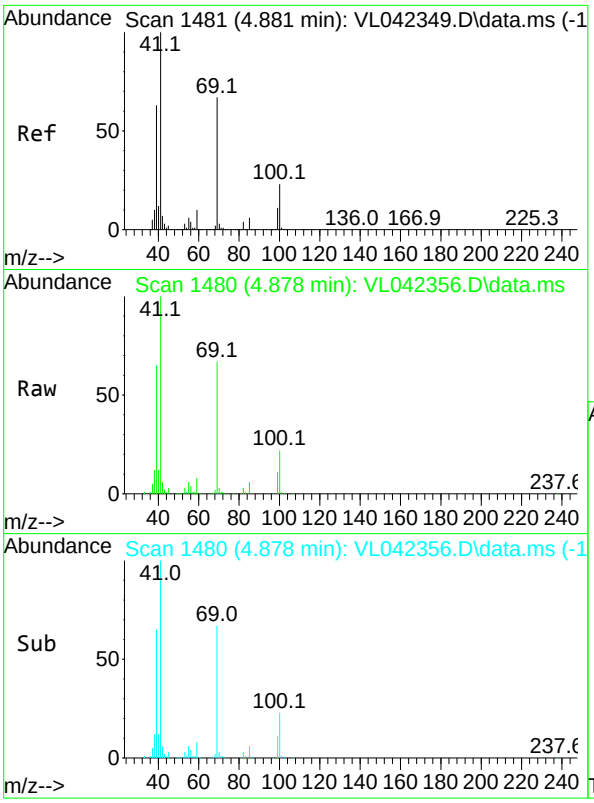


#42
Bromodichloromethane
Concen: 10.156 ppbv
RT: 4.489 min Scan# 1360
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 83 Resp: 296946

Ion	Ratio	Lower	Upper
83	100		
85	59.0	49.7	74.5
127	6.6	5.1	7.7

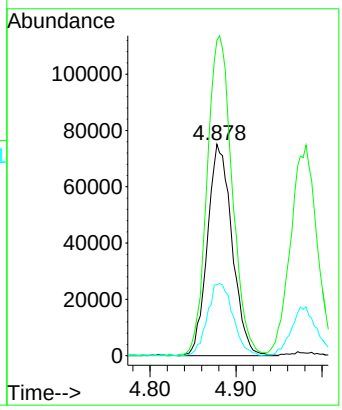




#43
Methyl Methacrylate
Concen: 9.458 ppbv
RT: 4.878 min Scan# 14
Delta R.T. -0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 69 Resp: 14920

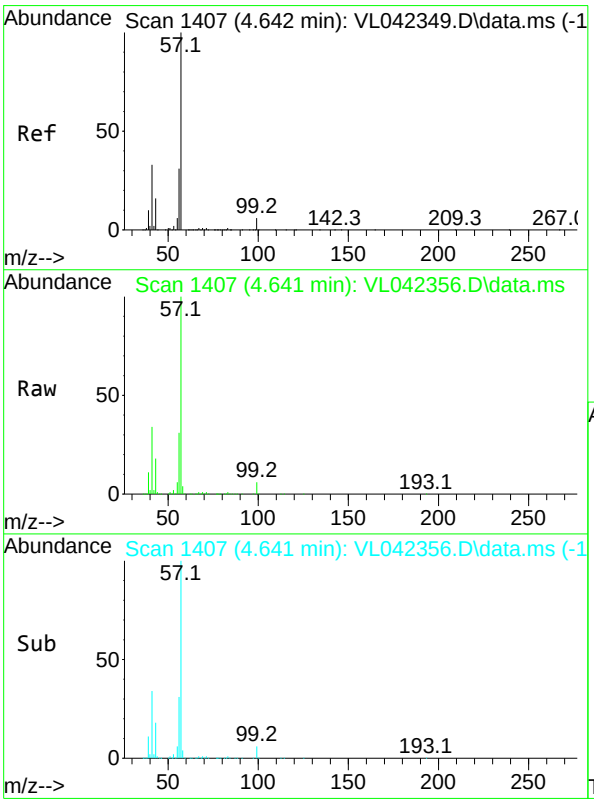
Ion	Ratio	Lower	Upper
69	100		
41	154.1	118.6	177.8
100	35.5	28.2	42.2



Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

Manual Integrations
APPROVED

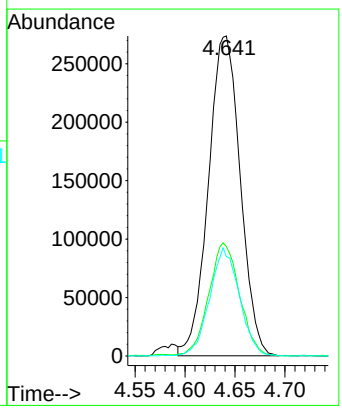
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

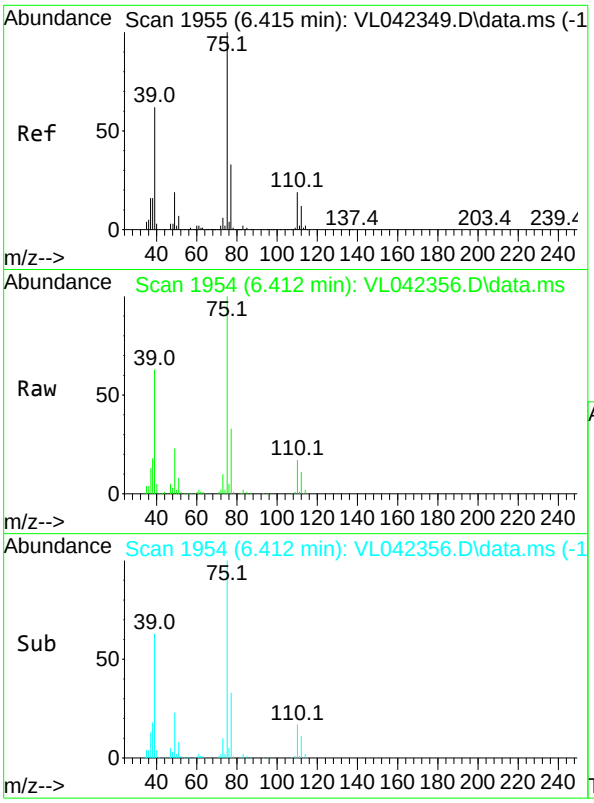


#44
2,2,4-Trimethylpentane
Concen: 10.030 ppbv
RT: 4.641 min Scan# 1407
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 57 Resp: 606376

Ion	Ratio	Lower	Upper
57	100		
41	34.3	27.2	40.8
56	31.6	25.7	38.5

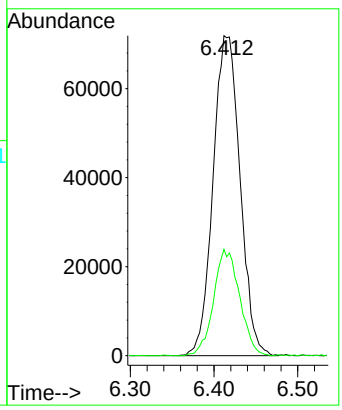




#45
t-1,3-Dichloropropene
Concen: 9.975 ppbv
RT: 6.412 min Scan# 1
Delta R.T. -0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 75 Resp: 16075

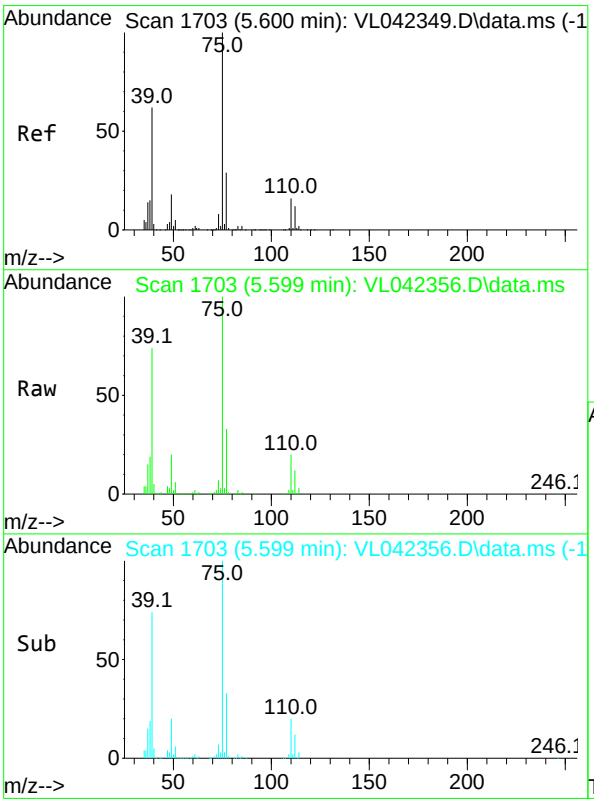
Ion	Ratio	Lower	Upper
75	100		
77	33.2	27.0	40.6



Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

Manual Integrations
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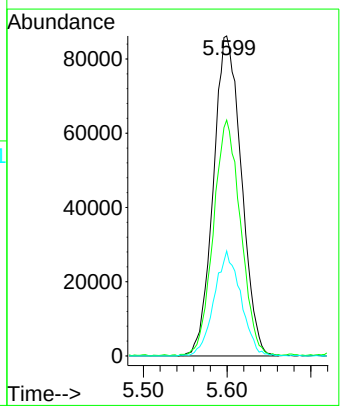
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

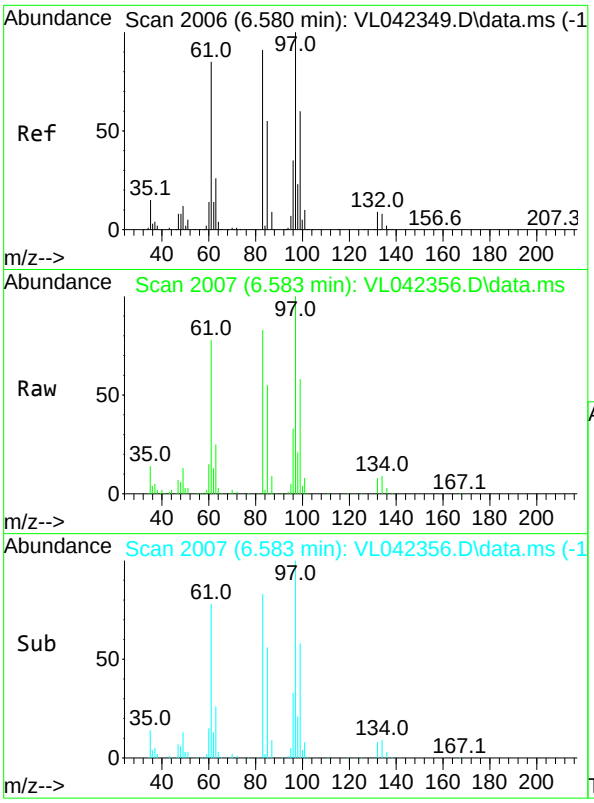


#46
cis-1,3-Dichloropropene
Concen: 10.148 ppbv
RT: 5.599 min Scan# 1703
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 75 Resp: 200144

Ion	Ratio	Lower	Upper
75	100		
39	73.7	50.0	75.0
77	32.7	23.0	34.6

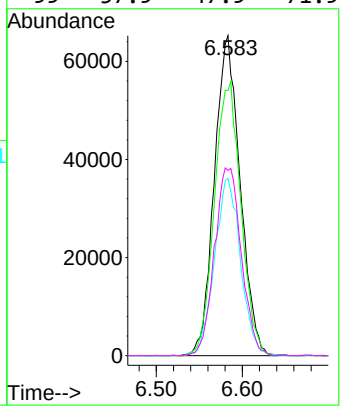




#47
1,1,2-Trichloroethane
Concen: 10.202 ppbv
RT: 6.583 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 97 Resp: 13557

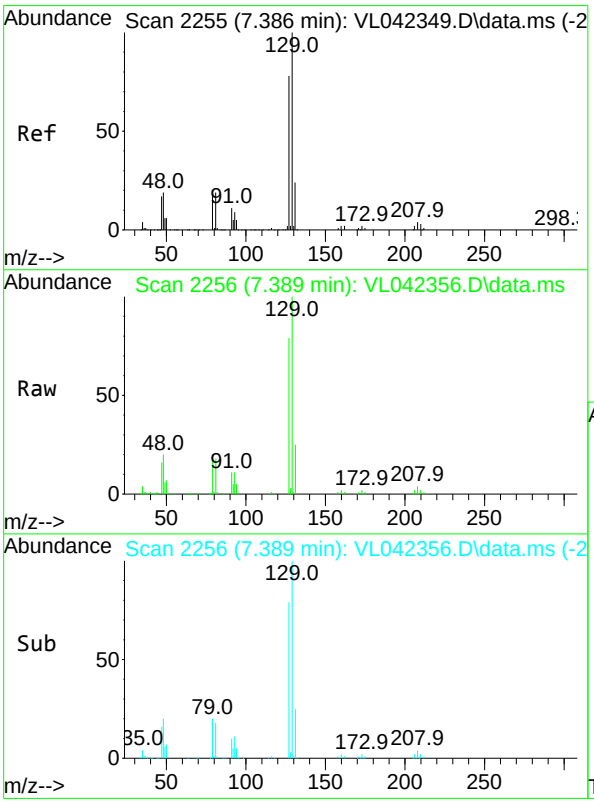
Ion	Ratio	Lower	Upper
97	100		
83	82.8	72.8	109.2
85	55.5	44.2	66.4
99	57.9	47.9	71.9



Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

Manual Integrations
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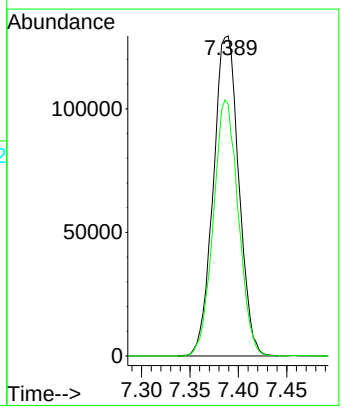
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

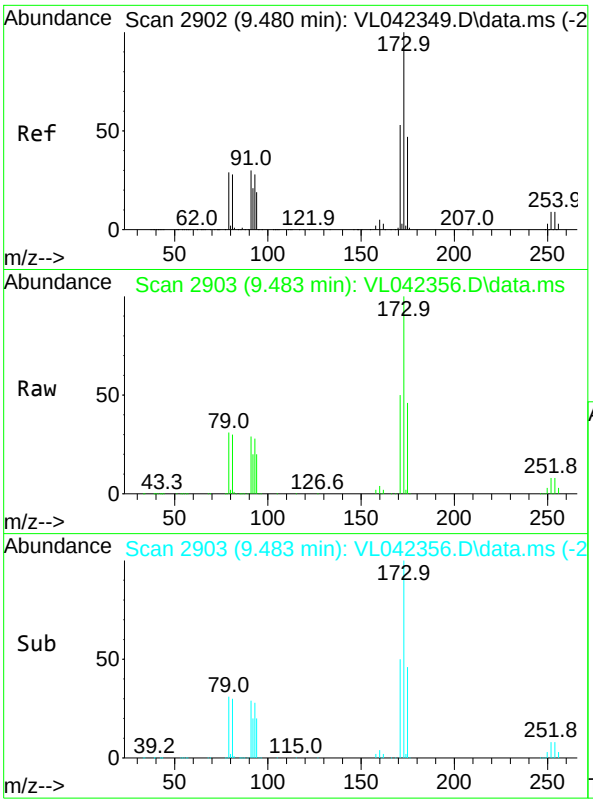


#48
Dibromochloromethane
Concen: 10.103 ppbv
RT: 7.389 min Scan# 2256
Delta R.T. 0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion:129 Resp: 237206

Ion	Ratio	Lower	Upper
129	100		
127	78.4	39.1	117.3

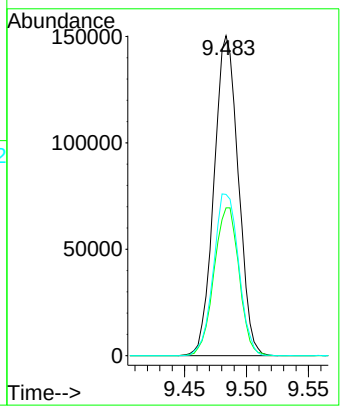




#49
Bromoform
Concen: 10.016 ppbv
RT: 9.483 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion:173 Resp: 20563

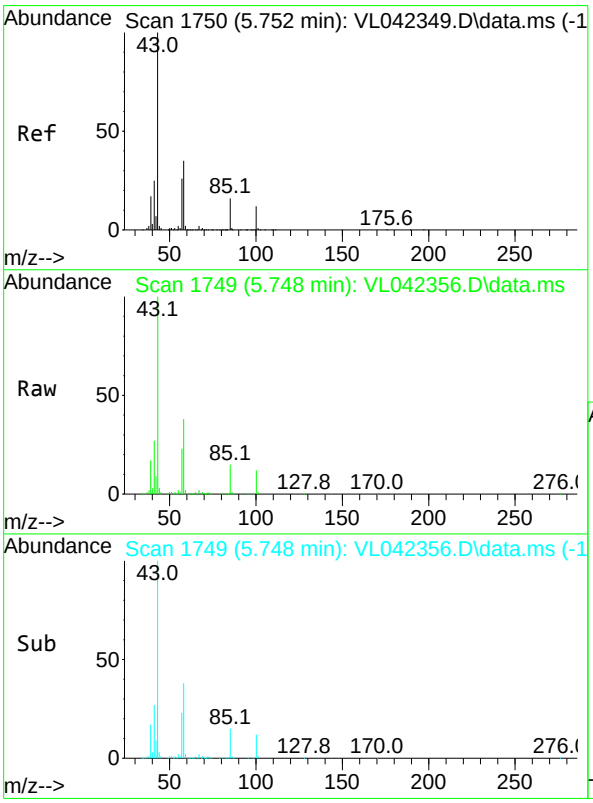
Ion	Ratio	Lower	Upper
173	100		
175	47.6	38.2	57.2
171	52.5	40.9	61.3



Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

Manual Integrations
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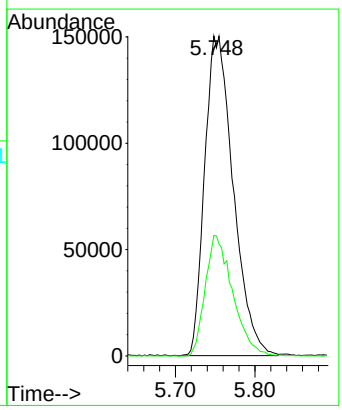
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

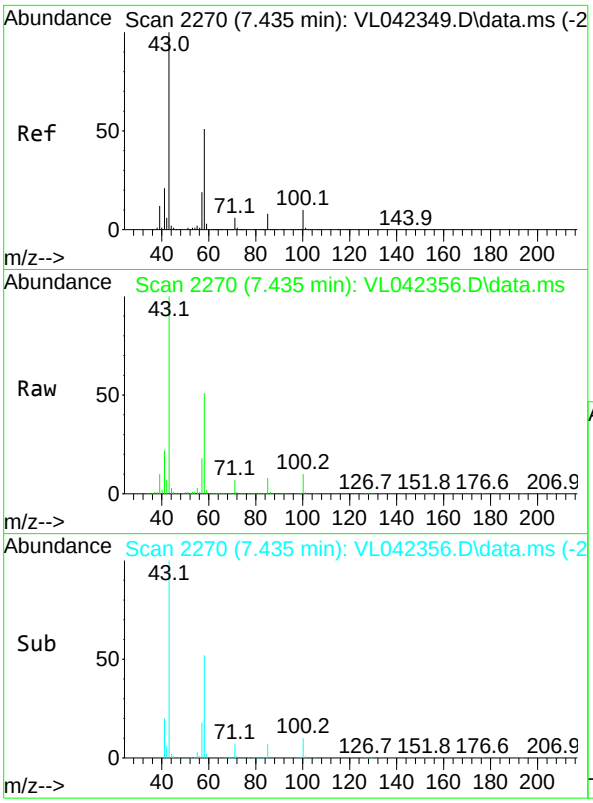


#50
4-Methyl-2-Pentanone
Concen: 8.819 ppbv
RT: 5.748 min Scan# 1749
Delta R.T. -0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 43 Resp: 376145

Ion	Ratio	Lower	Upper
43	100		
58	36.2	28.6	43.0





#51
2-Hexanone
Concen: 8.118 ppbv
RT: 7.435 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

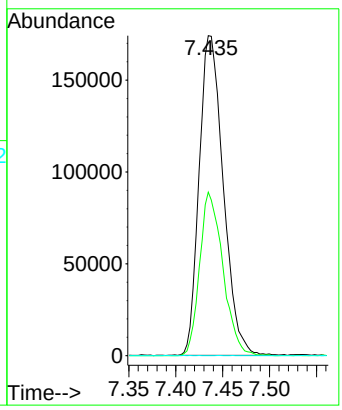
Tgt Ion: 43 Resp: 31052

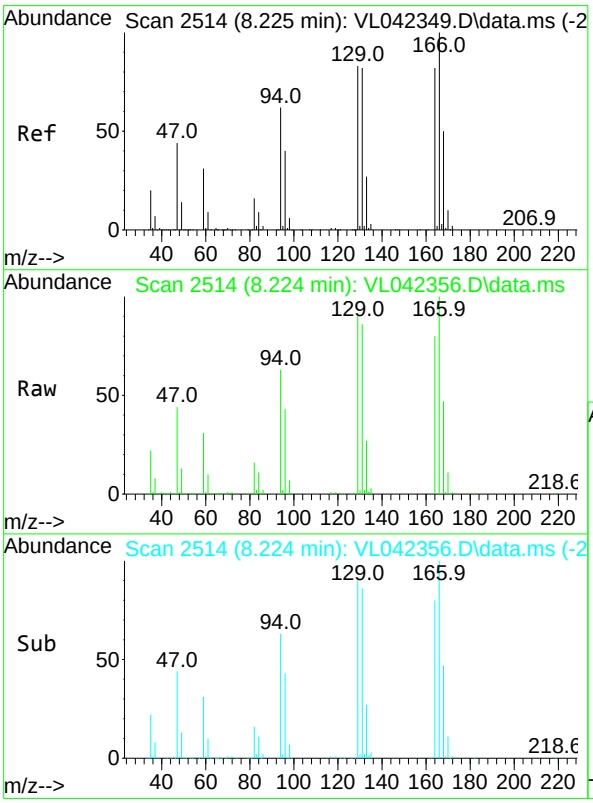
Ion	Ratio	Lower	Upper
43	100		
58	49.3	40.2	60.4
98	0.0	0.1	0.1

Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

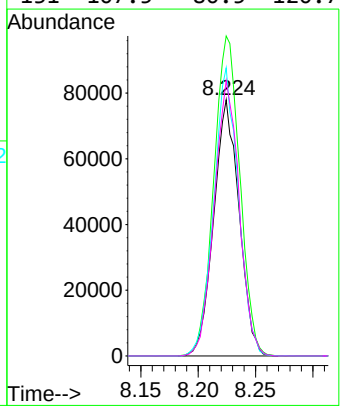


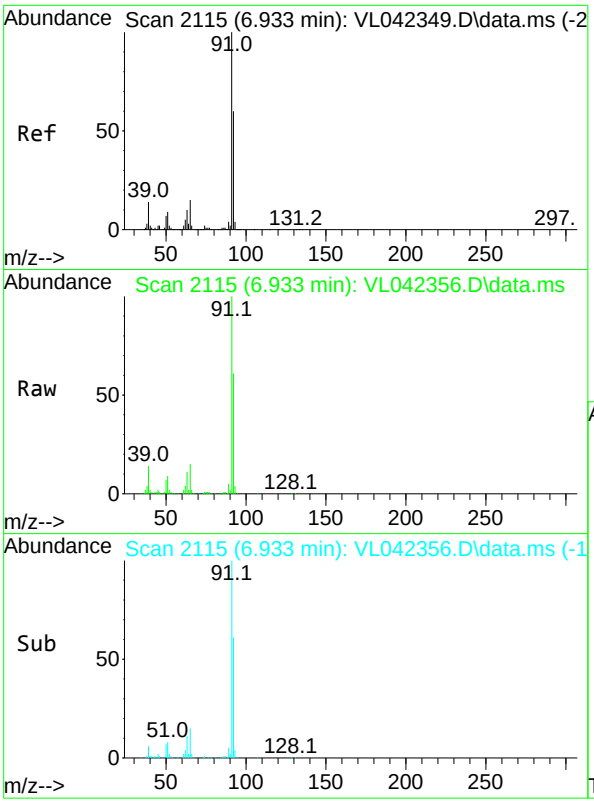


#52
Tetrachloroethene
Concen: 8.827 ppbv
RT: 8.224 min Scan# 2514
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion:164 Resp: 119424

Ion	Ratio	Lower	Upper
164	100		
166	124.9	98.2	147.2
129	112.5	81.8	122.8
131	107.5	80.5	120.7

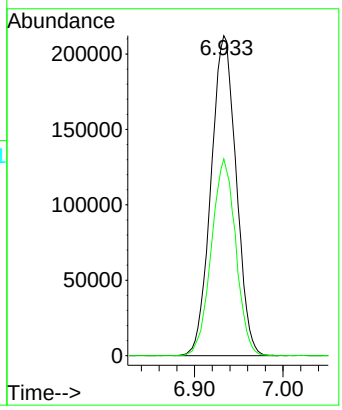




#53
Toluene
Concen: 9.986 ppbv
RT: 6.933 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 91 Resp: 41946

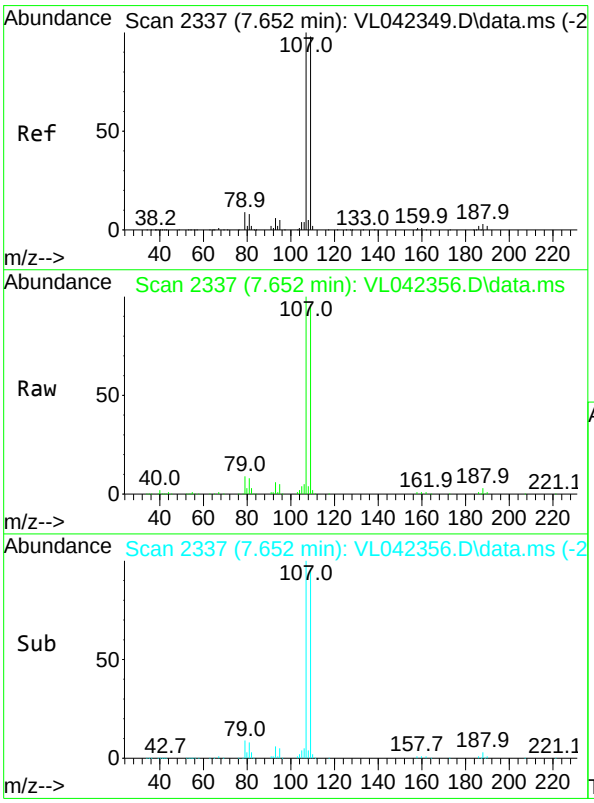
Ion	Ratio	Lower	Upper
91	100		
92	59.6	48.2	72.4



Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

Manual Integrations
APPROVED

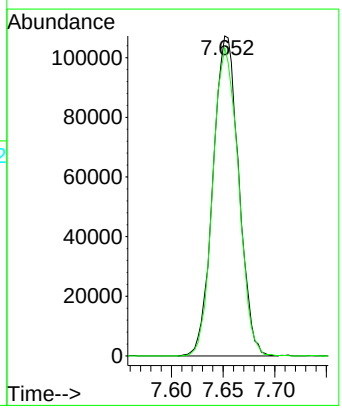
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

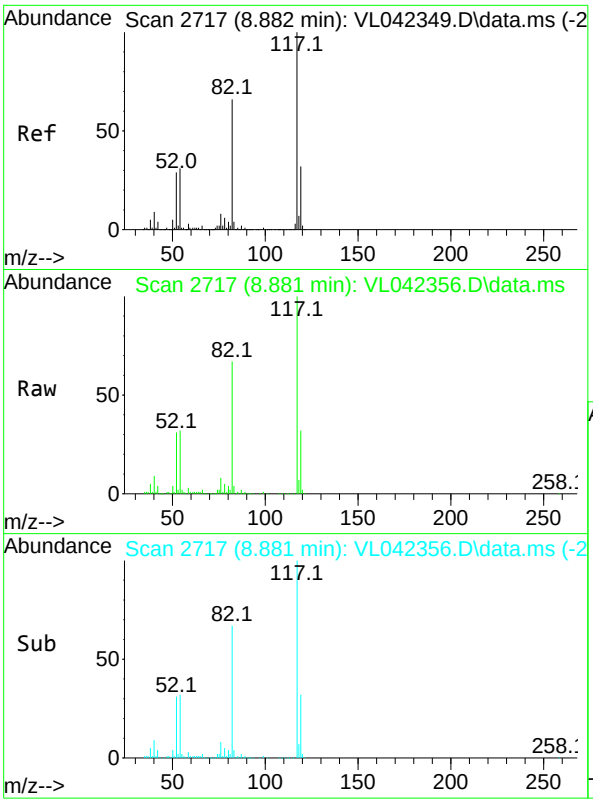


#54
1,2-Dibromoethane
Concen: 9.792 ppbv
RT: 7.652 min Scan# 2337
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion:107 Resp: 186231

Ion	Ratio	Lower	Upper
107	100		
109	96.3	78.2	117.4

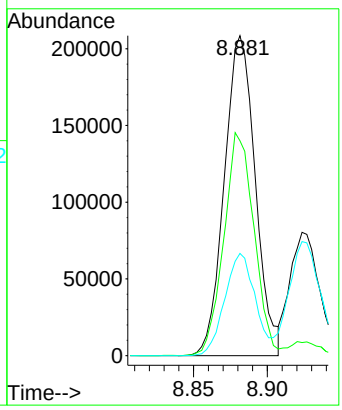




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.881 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion:117 Resp: 30535

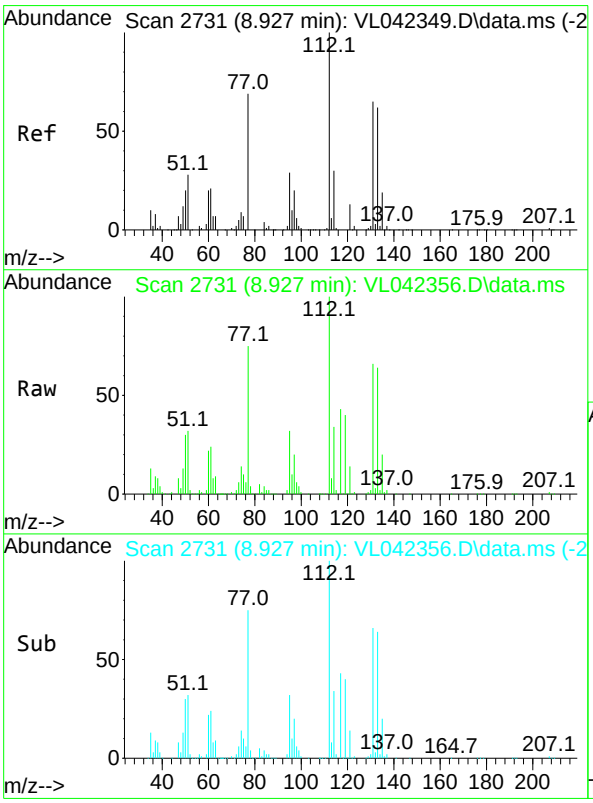
Ion	Ratio	Lower	Upper
117	100		
82	68.3	57.8	86.6
119	31.8	25.2	37.8



Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

Manual Integrations
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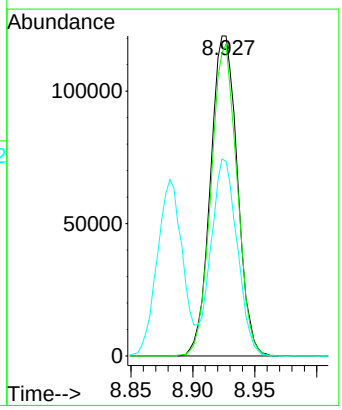
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

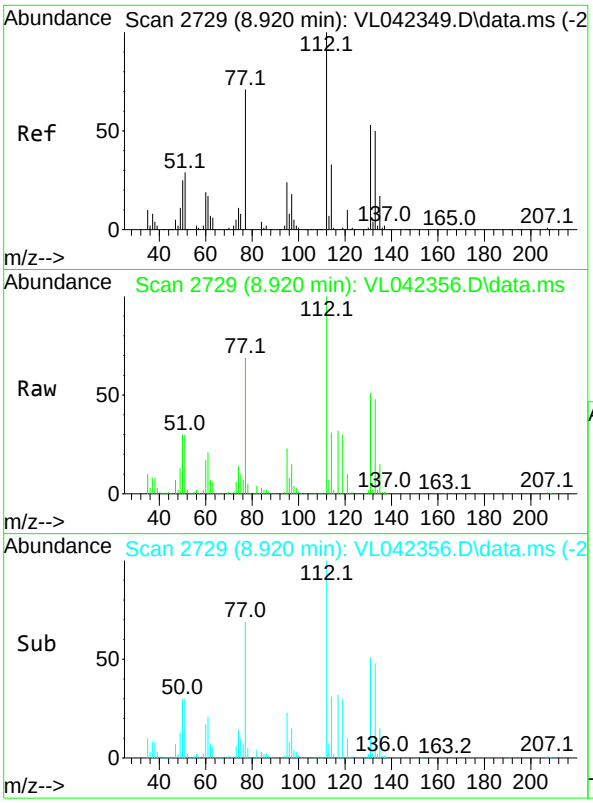


#56
1,1,1,2-Tetrachloroethane
Concen: 9.886 ppbv
RT: 8.927 min Scan# 2731
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion:131 Resp: 182712

Ion	Ratio	Lower	Upper
131	100		
133	93.9	78.3	117.5
119	59.4	48.7	73.1

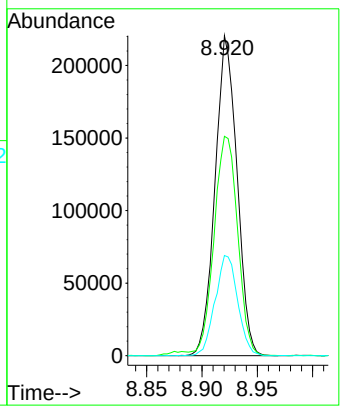




#57
Chlorobenzene
Concen: 9.589 ppbv
RT: 8.920 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion:112 Resp: 30453

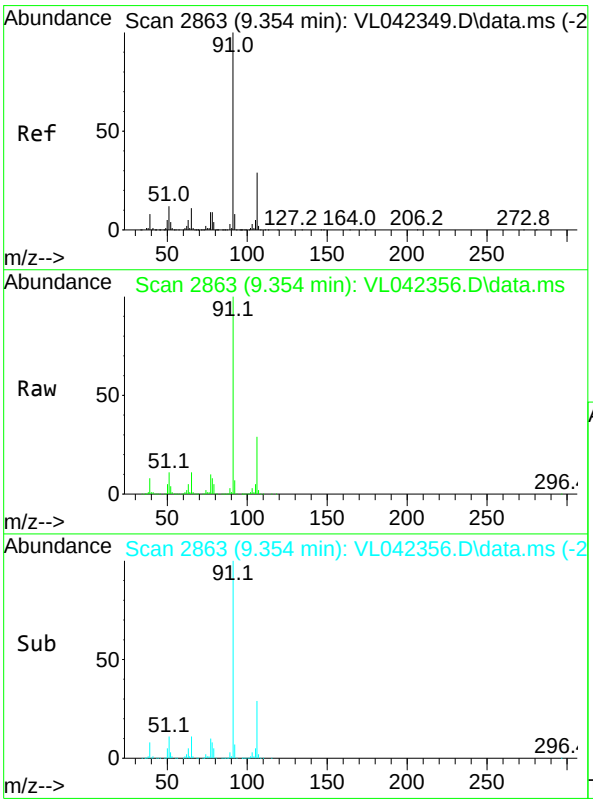
Ion	Ratio	Lower	Upper
112	100		
77	68.5	57.8	86.6
114	31.3	29.3	35.9



Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

Manual Integrations
APPROVED

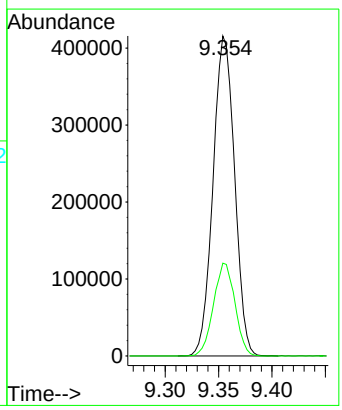
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

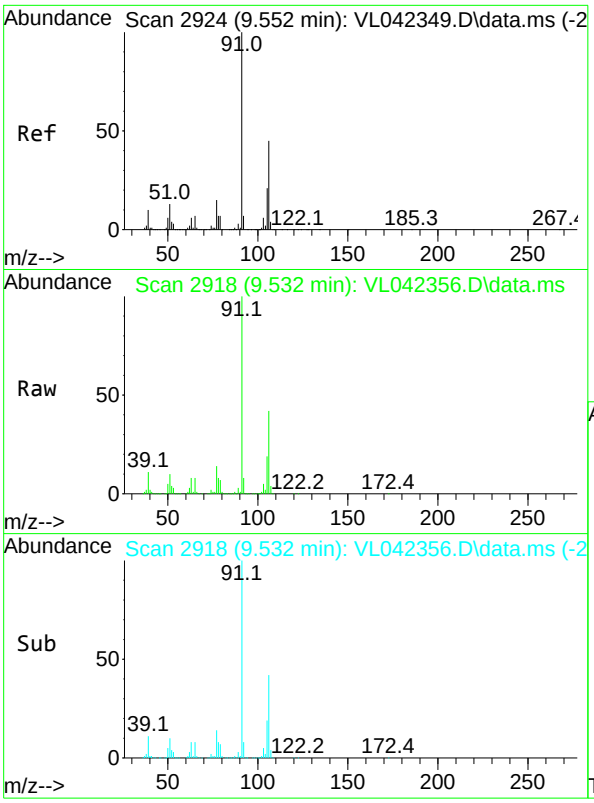


#58
Ethyl Benzene
Concen: 9.645 ppbv
RT: 9.354 min Scan# 2863
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 91 Resp: 583515

Ion	Ratio	Lower	Upper
91	100		
106	29.0	23.0	34.4

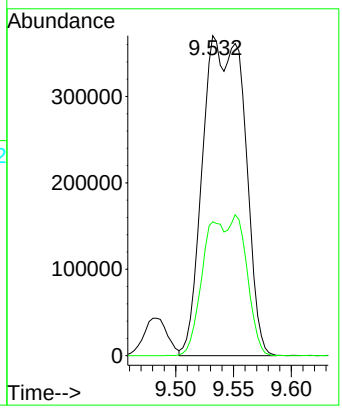




#59
m/p-Xylene
Concen: 19.139 ppbv m
RT: 9.532 min Scan# 2
Delta R.T. -0.020 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 91 Resp: 93280

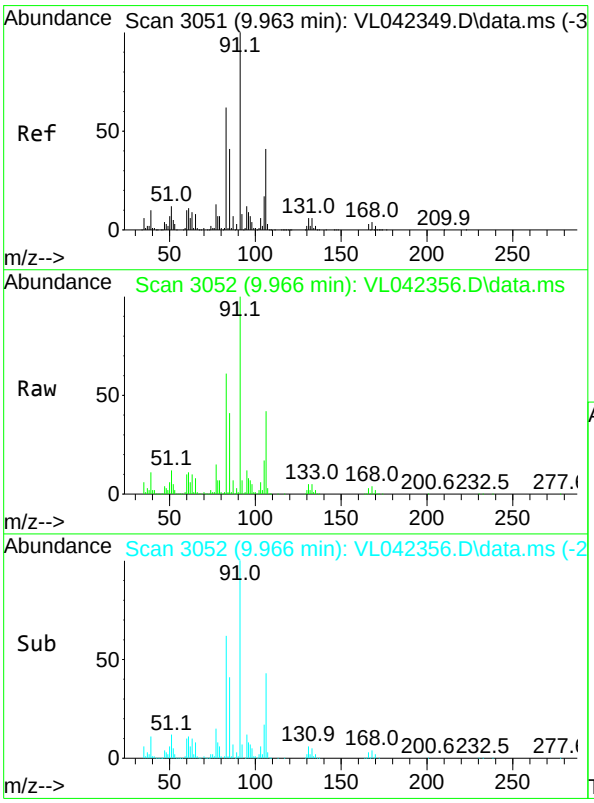
Ion	Ratio	Lower	Upper
91	100		
106	43.7	35.4	53.2



Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

Manual Integrations
APPROVED

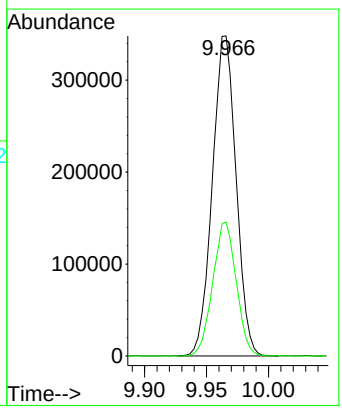
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

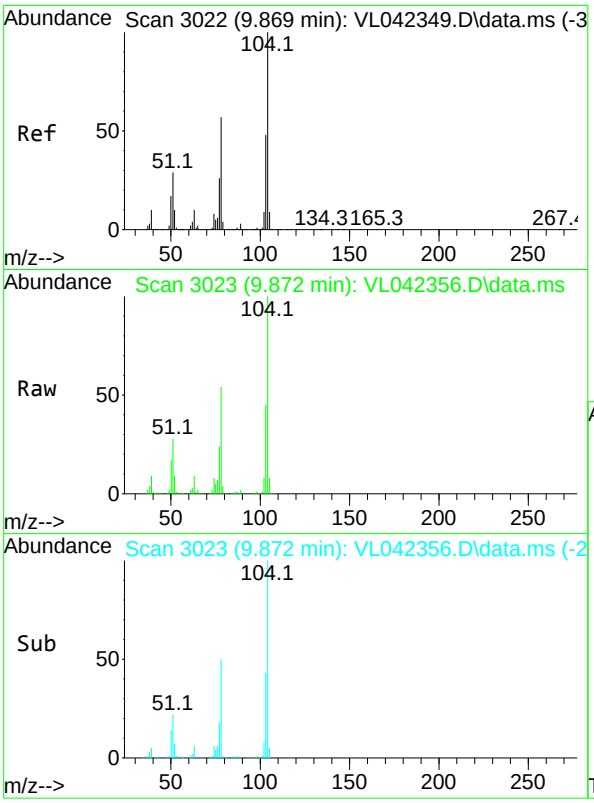


#60
o-Xylene
Concen: 9.465 ppbv
RT: 9.966 min Scan# 3052
Delta R.T. 0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 91 Resp: 464522

Ion	Ratio	Lower	Upper
91	100		
106	41.4	21.1	63.4

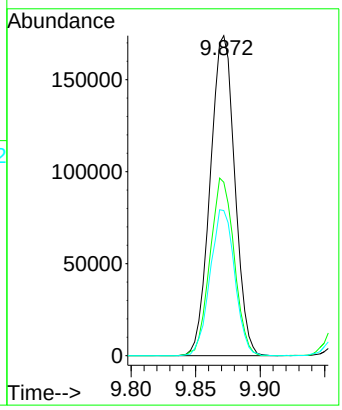




#61
Styrene
Concen: 9.813 ppbv
RT: 9.872 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion:104 Resp: 22986

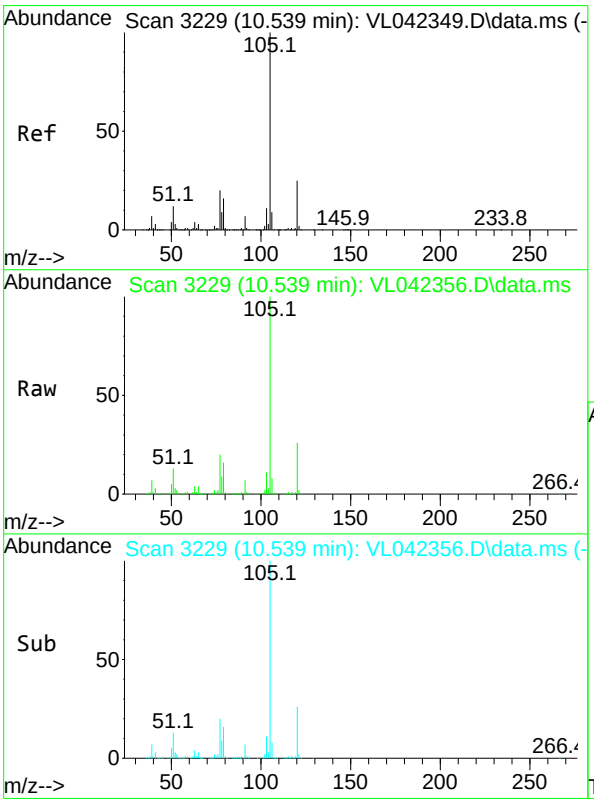
Ion	Ratio	Lower	Upper
104	100		
78	54.5	44.6	66.8
103	45.7	37.4	56.0



Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

Manual Integrations
APPROVED

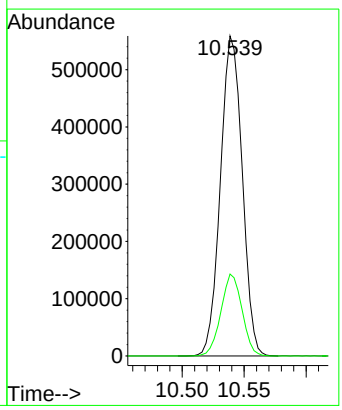
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

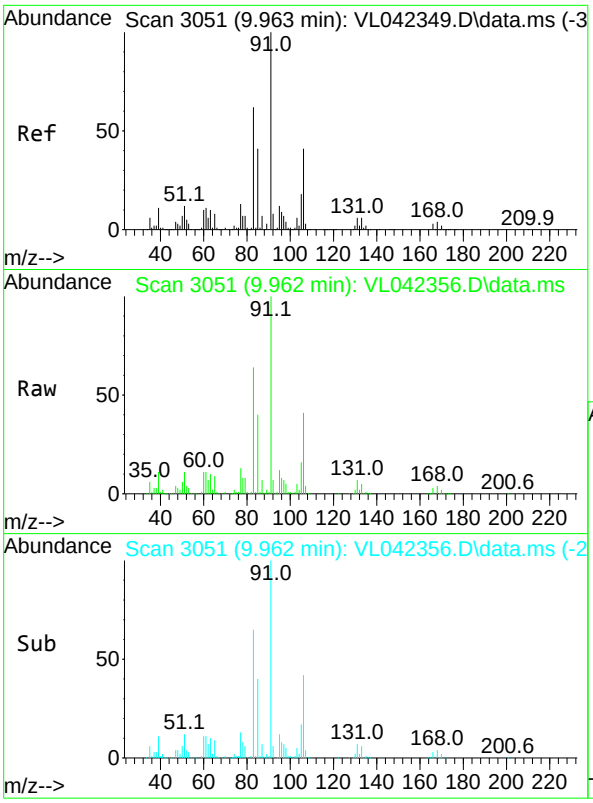


#62
Isopropylbenzene
Concen: 9.520 ppbv
RT: 10.539 min Scan# 3229
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion:105 Resp: 685965

Ion	Ratio	Lower	Upper
105	100		
120	24.8	19.8	29.8





#63
1,1,2,2-Tetrachloroethane
Concen: 8.773 ppbv
RT: 9.962 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

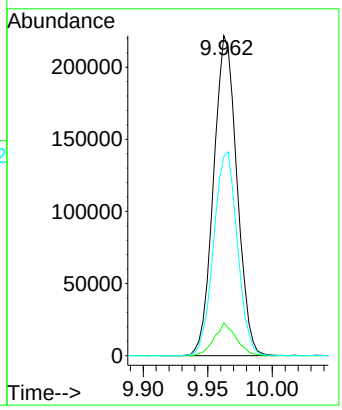
Tgt Ion: 83 Resp: 27900

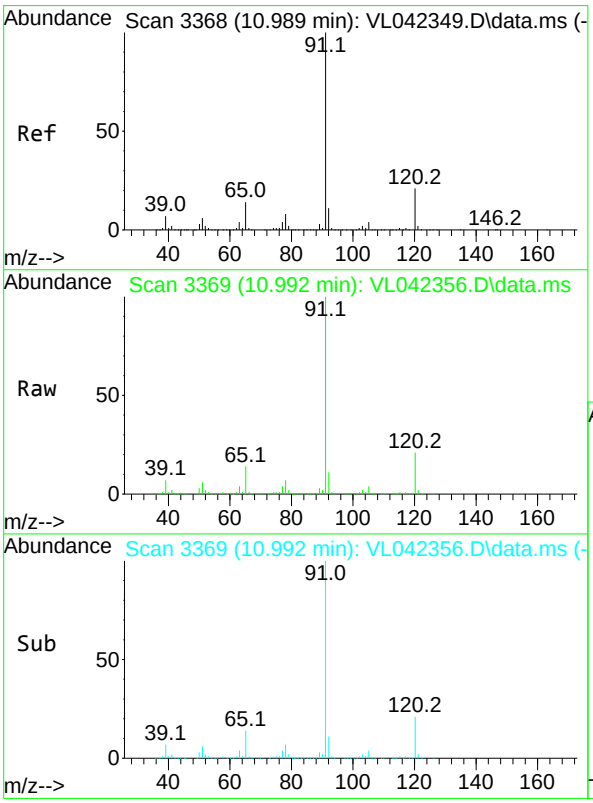
Ion	Ratio	Lower	Upper
83	100		
131	9.6	4.5	13.7
85	64.6	32.4	97.0

Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

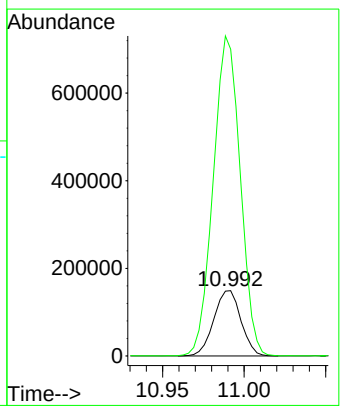


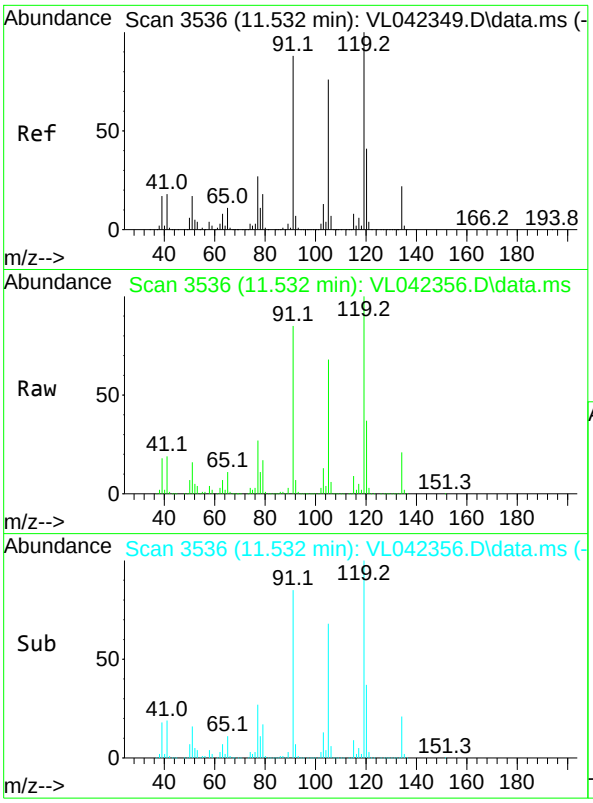


#64
n-propylbenzene
Concen: 9.533 ppbv
RT: 10.992 min Scan# 3369
Delta R.T. 0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion:120 Resp: 172654

Ion	Ratio	Lower	Upper
120	100		
91	487.7	392.4	588.6

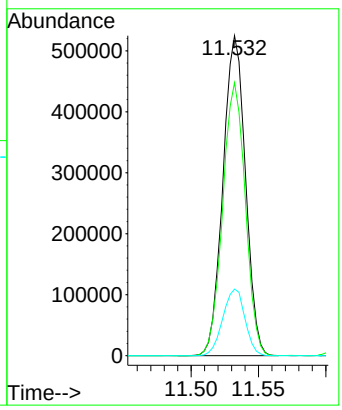




#65
tert-Butylbenzene
Concen: 9.203 ppbv
RT: 11.532 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion:119 Resp: 60950

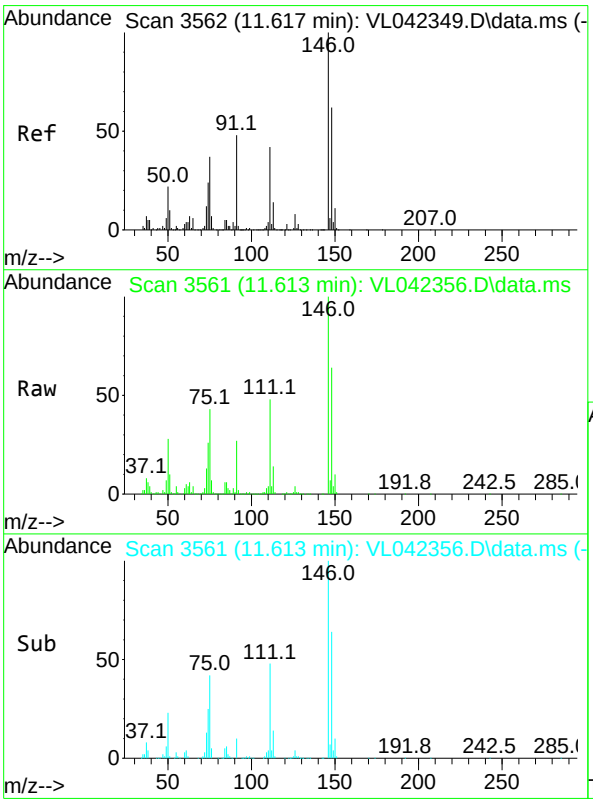
Ion	Ratio	Lower	Upper
119	100		
91	85.8	74.6	111.8
134	20.5	18.8	28.2



Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

Manual Integrations
APPROVED

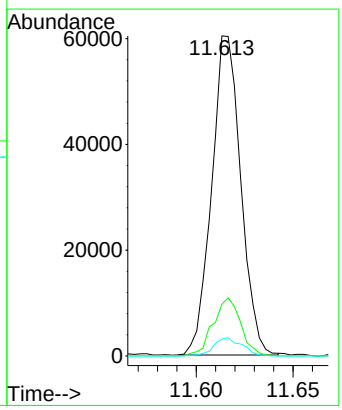
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

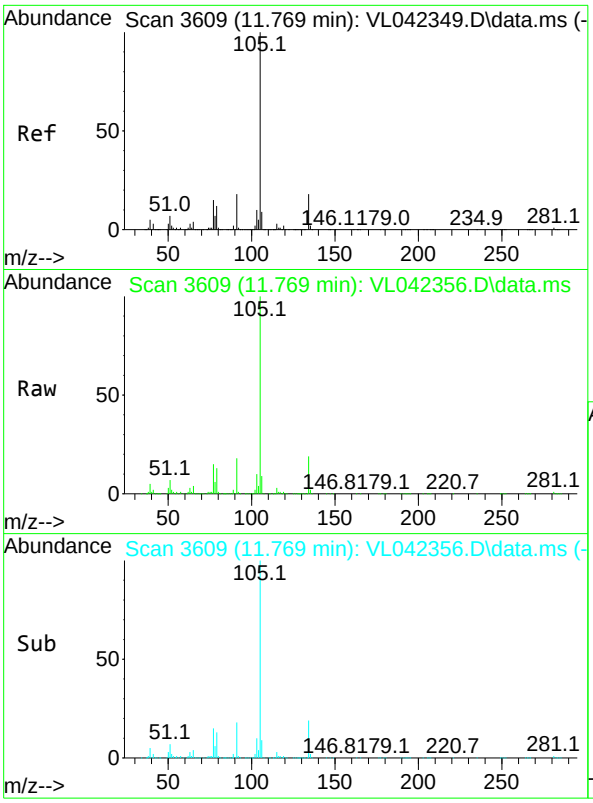


#66
Benzyl Chloride
Concen: 8.664 ppbv
RT: 11.613 min Scan# 3561
Delta R.T. -0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 91 Resp: 63051

Ion	Ratio	Lower	Upper
91	100		
126	17.3	11.8	17.6
128	5.6	4.5	6.7

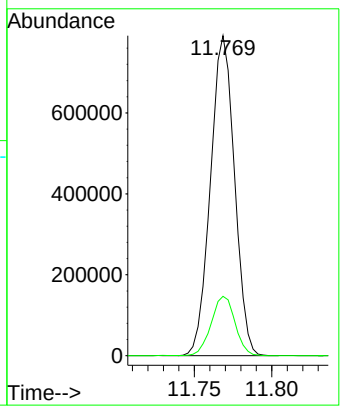




#67
sec-Butylbenzene
Concen: 9.268 ppbv
RT: 11.769 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion:105 Resp: 85380

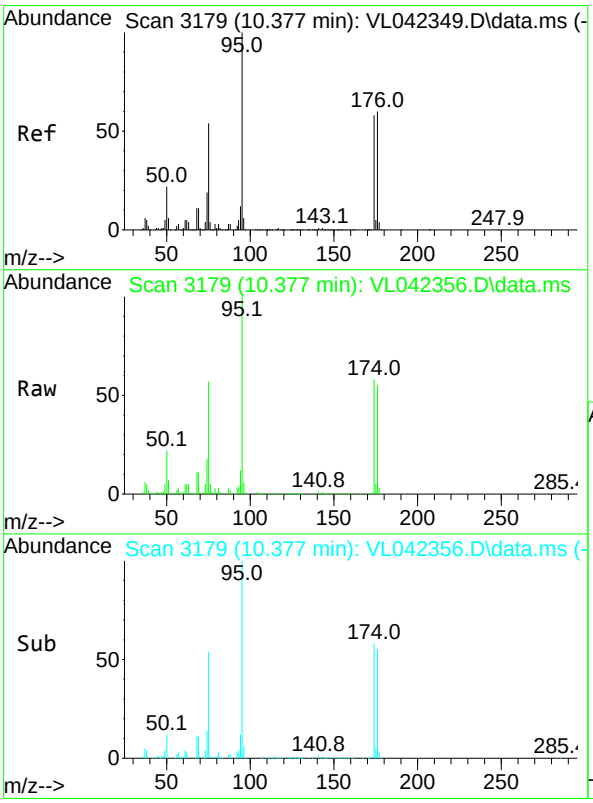
Ion	Ratio	Lower	Upper
105	100		
134	18.5	14.6	21.8



Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

Manual Integrations
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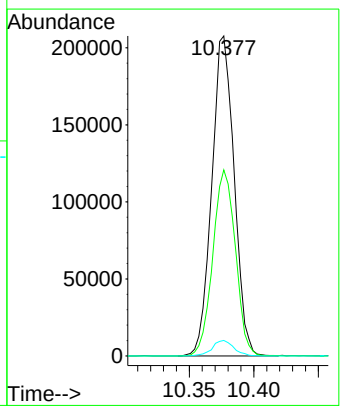
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

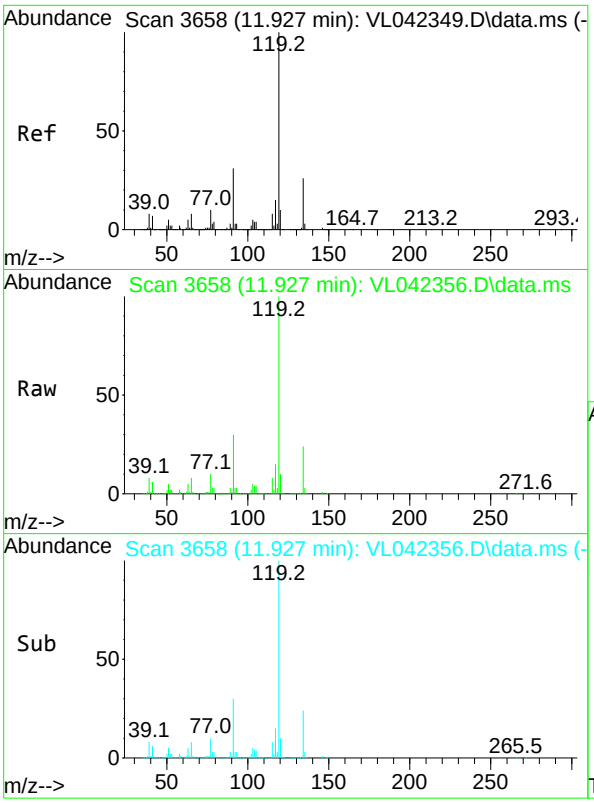


#68
1-Bromo-4-Fluorobenzene
Concen: 9.969 ppbv
RT: 10.377 min Scan# 3179
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 95 Resp: 250149

Ion	Ratio	Lower	Upper
95	100		
174	58.7	48.5	72.7
175	4.7	3.7	5.5

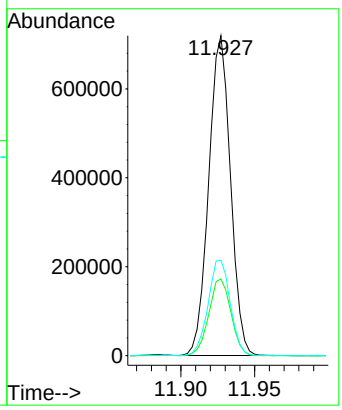




#69
p-Isopropyltoluene
Concen: 9.220 ppbv
RT: 11.927 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion:119 Resp: 73786

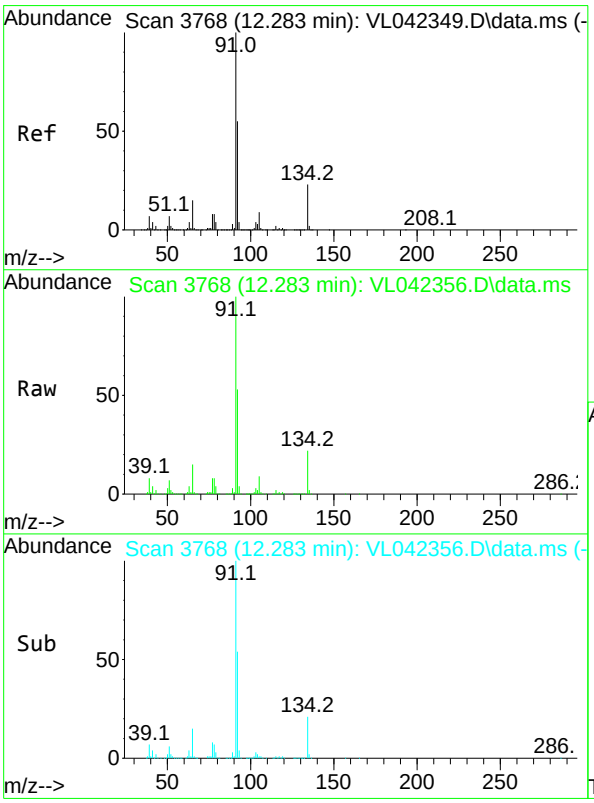
Ion	Ratio	Lower	Upper
119	100		
134	24.5	20.0	30.0
91	30.6	24.4	36.6



Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

Manual Integrations
APPROVED

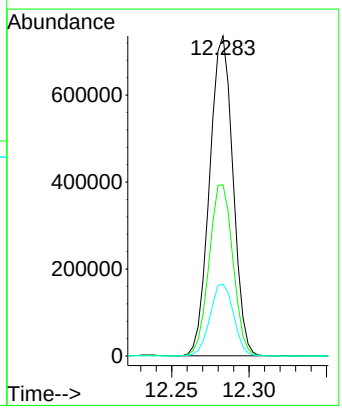
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

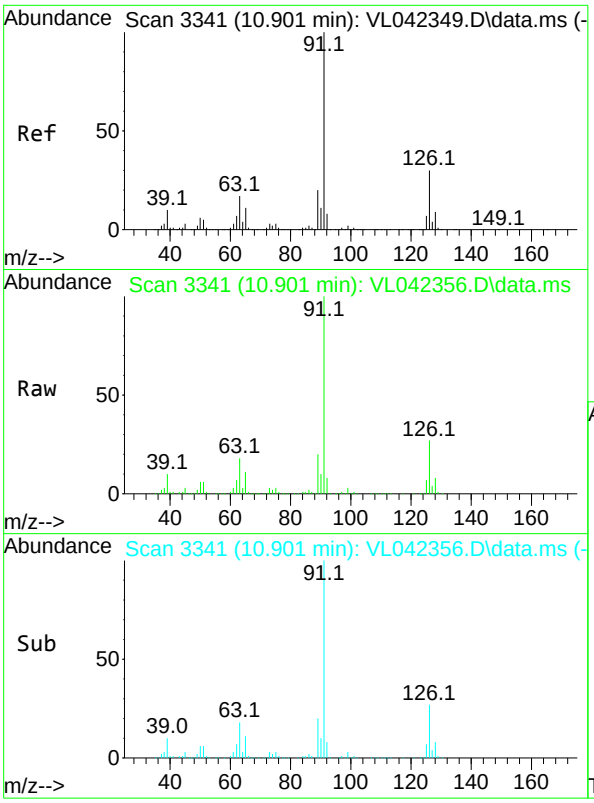


#70
n-Butylbenzene
Concen: 9.255 ppbv
RT: 12.283 min Scan# 3768
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 91 Resp: 771461

Ion	Ratio	Lower	Upper
91	100		
92	54.9	44.2	66.4
134	22.7	18.2	27.4

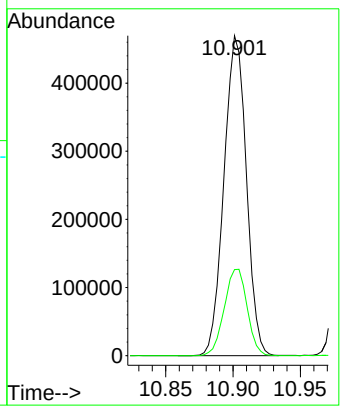




#71
2-Chlorotoluene
Concen: 9.622 ppbv
RT: 10.901 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 91 Resp: 54379

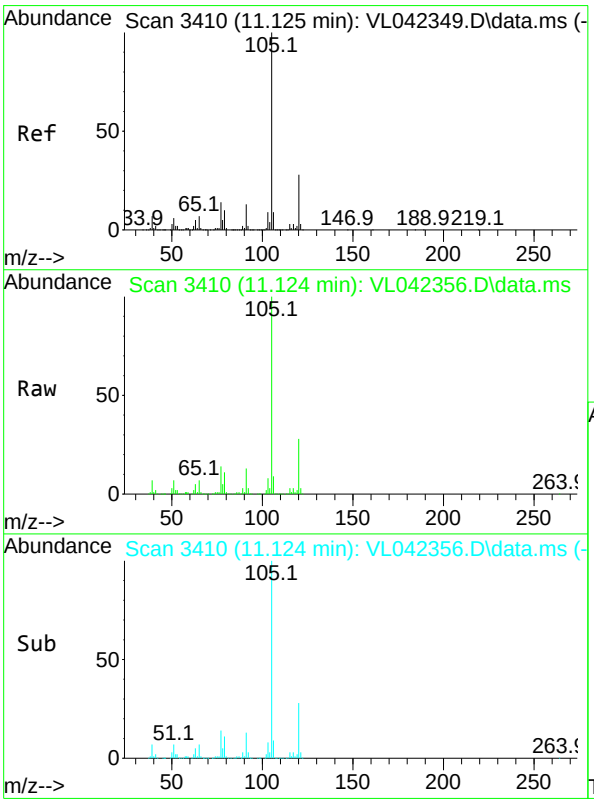
Ion	Ratio	Lower	Upper
91	100		
126	27.5	11.4	45.4



Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

Manual Integrations
APPROVED

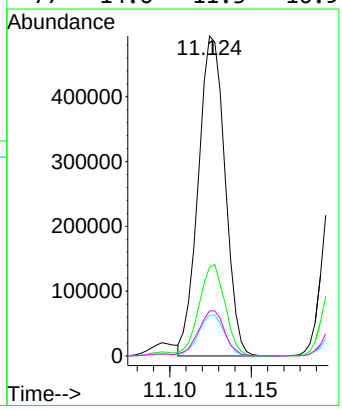
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

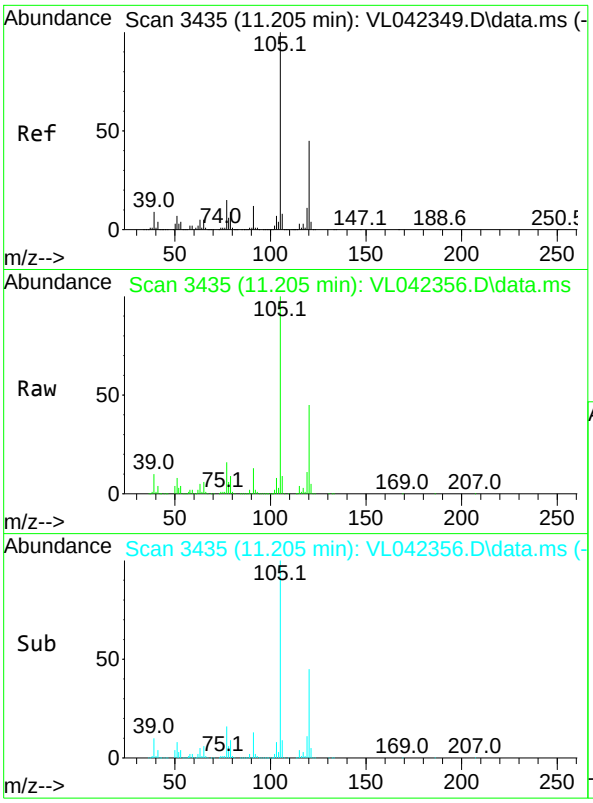


#72
4-Ethyltoluene
Concen: 9.385 ppbv
RT: 11.124 min Scan# 3410
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion:105 Resp: 563136

Ion	Ratio	Lower	Upper
105	100		
120	28.9	23.2	34.8
91	13.2	10.4	15.6
77	14.6	11.3	16.9

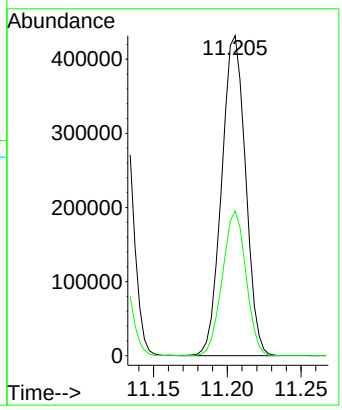




#73
1,3,5-Trimethylbenzene
Concen: 9.186 ppbv
RT: 11.205 min Scan# 34
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion:105 Resp: 48658

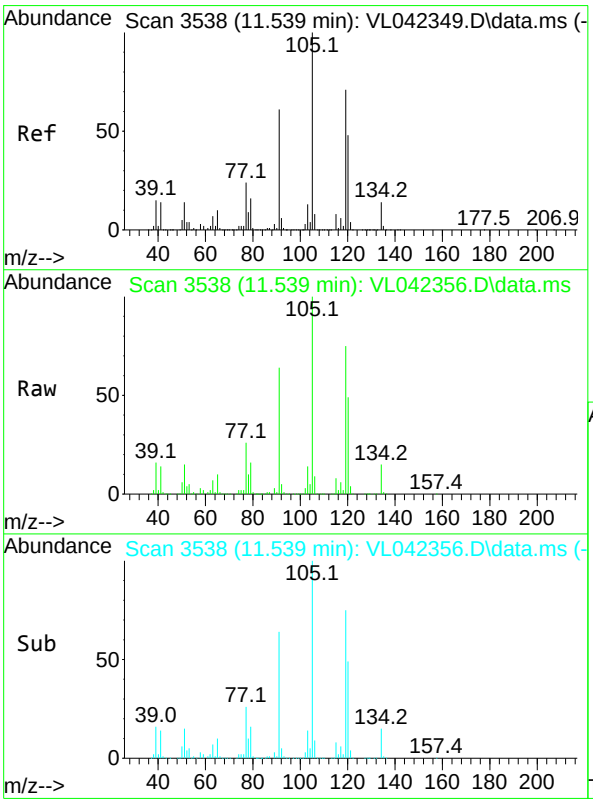
Ion	Ratio	Lower	Upper
105	100		
120	45.2	35.6	53.4



Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

Manual Integrations
APPROVED

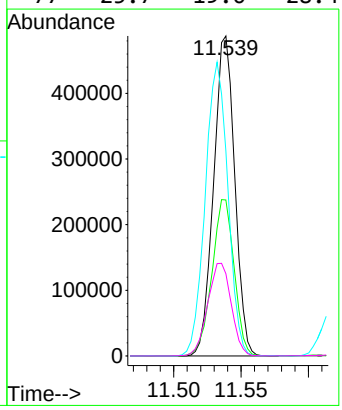
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

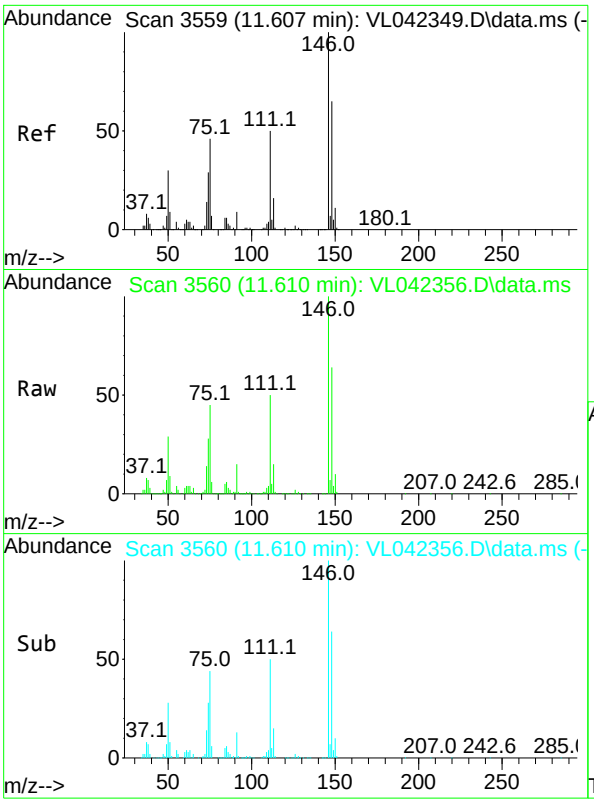


#74
1,2,4-Trimethylbenzene
Concen: 8.592 ppbv
RT: 11.539 min Scan# 3538
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion:105 Resp: 531576

Ion	Ratio	Lower	Upper
105	100		
120	48.7	38.1	57.1
91	64.0	48.8	73.2
77	25.7	19.0	28.4

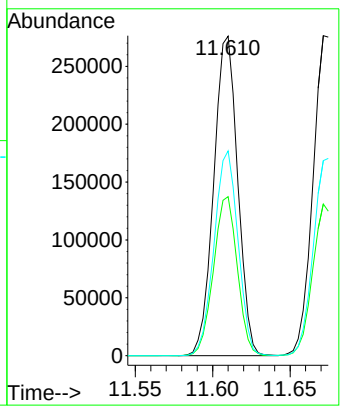




#75
1,3-Dichlorobenzene
Concen: 9.240 ppbv
RT: 11.610 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion:146 Resp: 29715

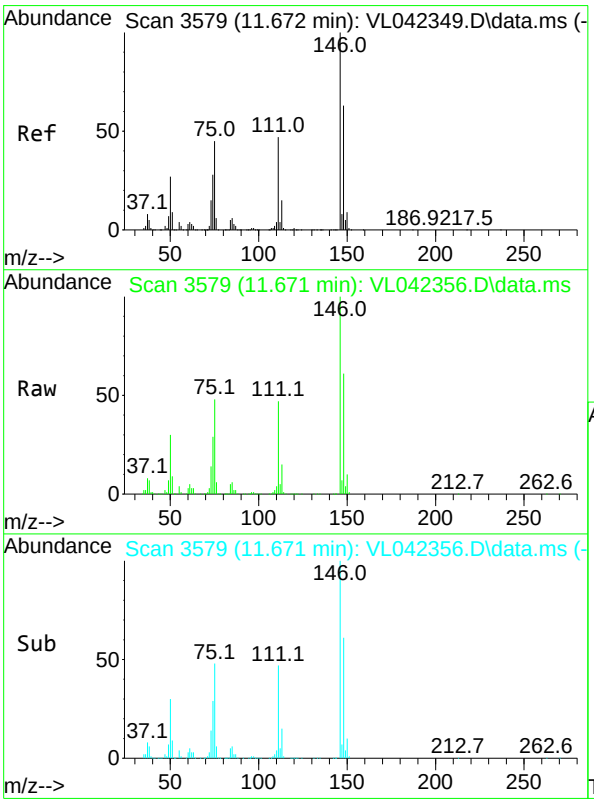
Ion	Ratio	Lower	Upper
146	100		
111	49.5	24.3	72.8
148	64.1	31.6	94.8



Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

Manual Integrations APPROVED

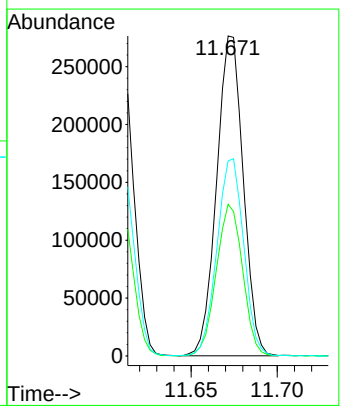
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

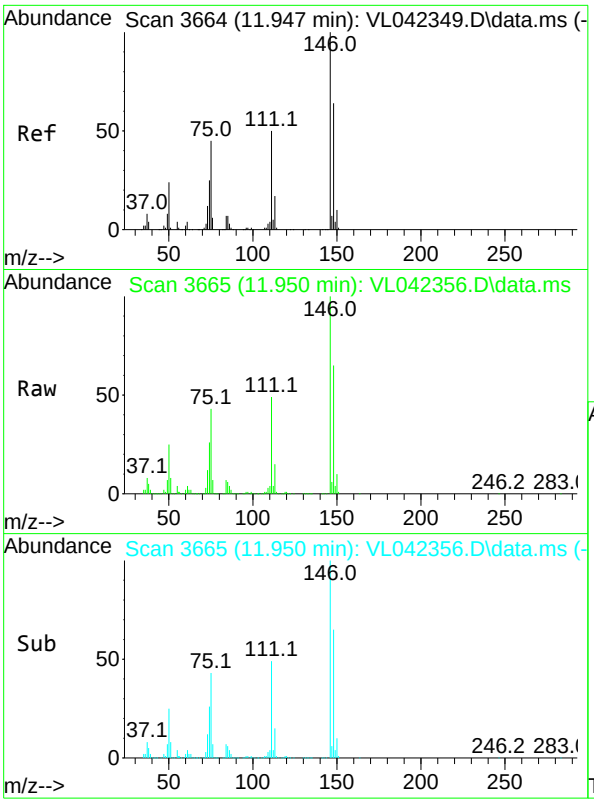


#76
1,4-Dichlorobenzene
Concen: 9.210 ppbv
RT: 11.671 min Scan# 3579
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion:146 Resp: 297697

Ion	Ratio	Lower	Upper
146	100		
111	47.1	24.2	72.6
148	62.3	32.1	96.5

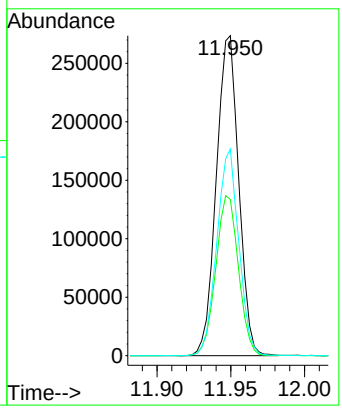




#77
1,2-Dichlorobenzene
Concen: 9.251 ppbv
RT: 11.950 min Scan# 3(
Delta R.T. 0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion:146 Resp: 28928(

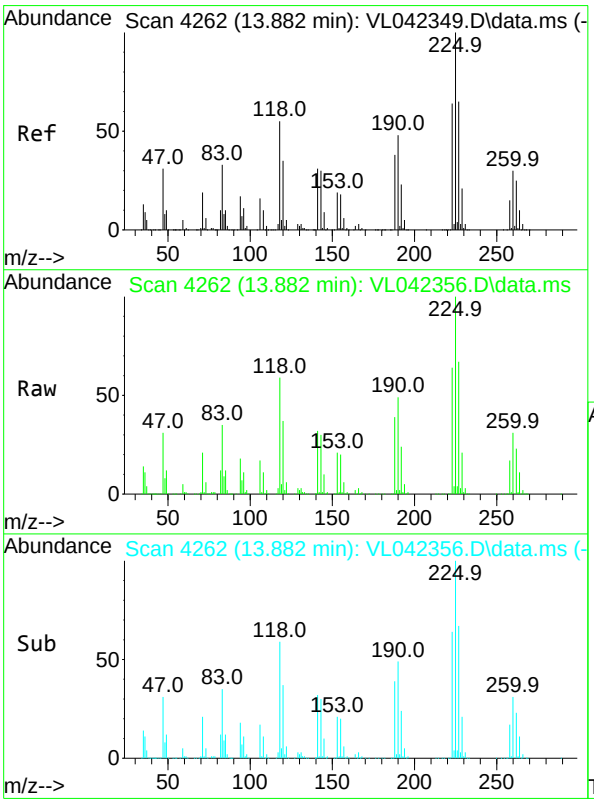
Ion	Ratio	Lower	Upper
146	100		
111	50.8	25.3	75.9
148	63.4	31.5	94.5



Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

Manual Integrations
APPROVED

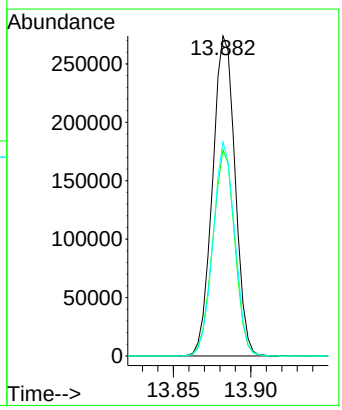
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

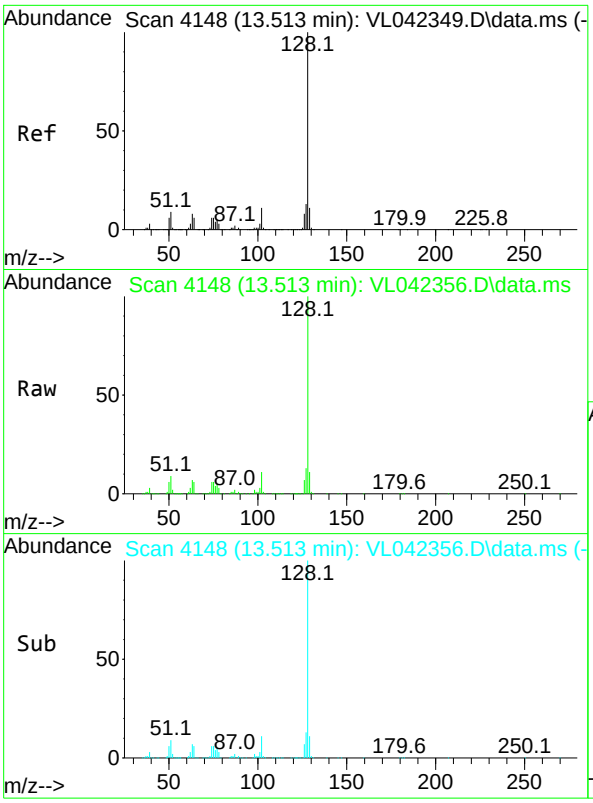


#78
Hexachloro-1,3-Butadiene
Concen: 8.771 ppbv
RT: 13.882 min Scan# 4262
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion:225 Resp: 276960

Ion	Ratio	Lower	Upper
225	100		
223	63.0	50.3	75.5
227	64.5	51.5	77.3

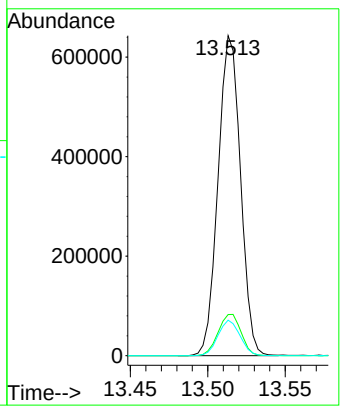




#79
Naphthalene
Concen: 8.750 ppbv
RT: 13.513 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion:128 Resp: 64734

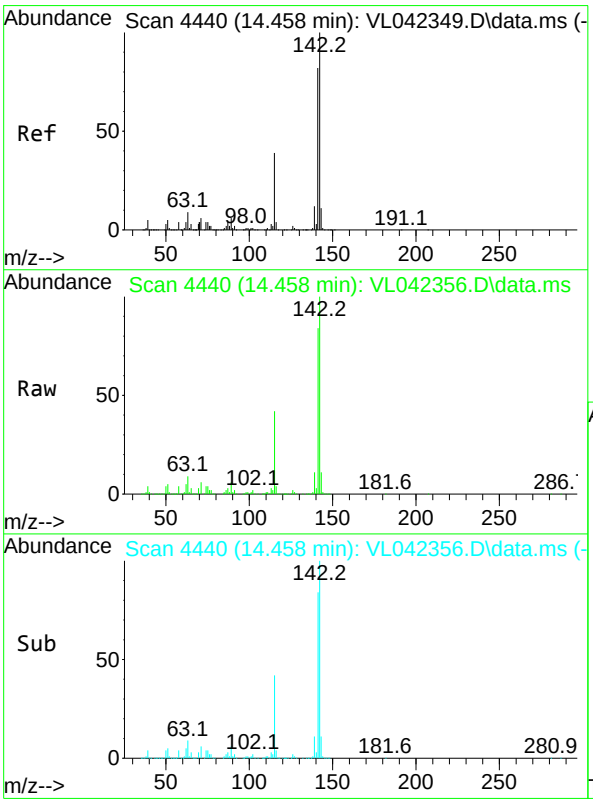
Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.6	15.8
129	11.1	8.6	12.8



Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

Manual Integrations
APPROVED

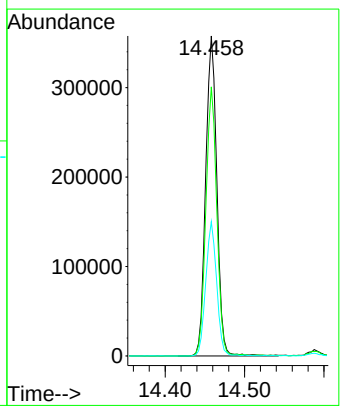
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

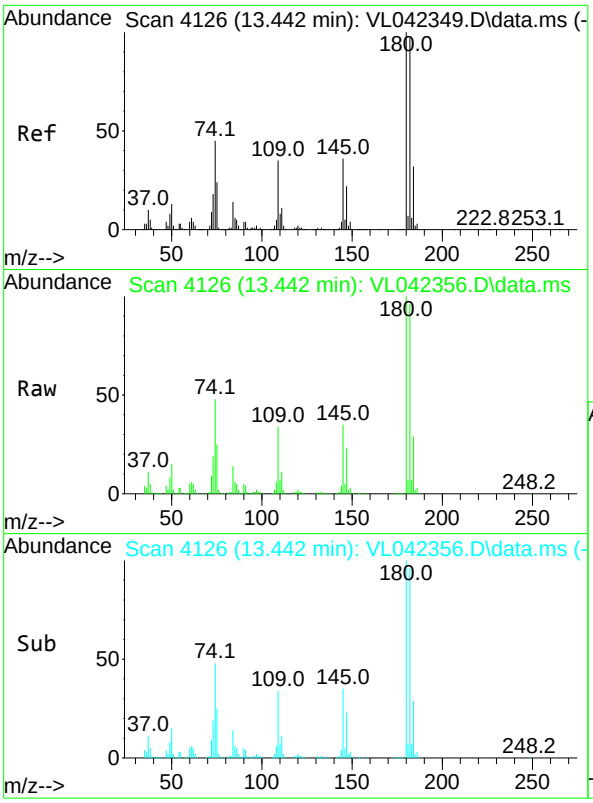


#80
Naphthalene,2-methyl-
Concen: 8.307 ppbv
RT: 14.458 min Scan# 4440
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion:142 Resp: 350259

Ion	Ratio	Lower	Upper
142	100		
141	83.0	66.8	100.2
115	41.4	33.4	50.2

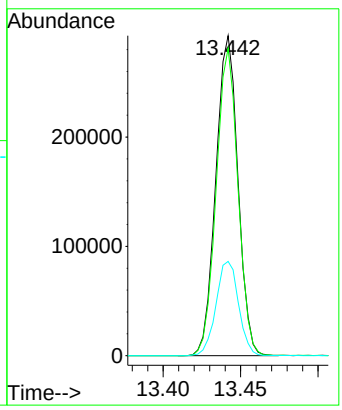




#81
1,2,4-Trichlorobenzene
Concen: 9.136 ppbv
RT: 13.442 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion:180 Resp: 29026

Ion	Ratio	Lower	Upper
180	100		
182	94.7	76.8	115.2
184	30.1	24.6	36.8



Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042356.D
Acq On : 17 Apr 2025 13:43
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

Quant Time: Apr 18 02:15:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Bromochloromethane	1.000	1.000	0.0	91	0.00
2	T	Dichlorodifluoromethane	1.767	1.734	1.9	95	0.00
3		Chlorodifluoromethane	1.682	1.676	0.4	97	0.00
4		Chloromethane	0.699	0.685	2.0	95	0.00
5	T	Vinyl Chloride	0.761	0.663	12.9	94	0.00
6	T	Bromomethane	0.327	0.308	5.8	92	0.00
7		Chloroethane	0.275	0.265	3.6	95	0.00
8	T	Dichlorotetrafluoroethane	1.517	1.516	0.1	96	0.00
9	T	Propene	0.766	0.742	3.1	98	0.00
10	T	Heptane	2.153	1.946	9.6	94	0.00
11	T	Trichlorofluoromethane	1.680	1.648	1.9	96	0.00
12	T	1,1,2-Trichlorotrifluoroeth	1.374	1.303	5.2	92	0.00
13		Ethanol	0.122	0.037#	69.7#	94	0.00
14	T	Bromoethene	0.518	0.512	1.2	95	0.00
15	T	Acetone	1.637	1.392	15.0	100	0.00
16	T	1,3-Butadiene	0.783	0.691	11.7	96	0.00
17		tert-Butyl alcohol	2.029	1.921	5.3	97	0.00
18	T	1,1-Dichloroethene	0.642	0.596	7.2	93	0.00
19	T	Isopropyl Alcohol	0.909	0.845	7.0	94	0.00
20	T	Methylene Chloride	0.641	0.519	19.0	95	0.00
21	T	Allyl Chloride	1.130	1.059	6.3	99	0.00
22	T	trans-1,2-Dichloroethene	0.731	0.685	6.3	94	0.00
23	T	Vinyl Acetate	0.663	0.644	2.9	105	0.00
24	T	1,1-Dichloroethane	1.388	1.365	1.7	97	0.00
25	T	Ethyl Acetate	4.036	3.939	2.4	97	0.00
26	T	Hexane	1.633	1.542	5.6	98	0.00
27	T	Carbon Disulfide	1.749	1.677	4.1	91	0.00
28	T	Methyl tert-Butyl Ether	1.070	1.011	5.5	98	0.00
29	T	Chloroform	2.309	2.288	0.9	97	0.00
30	T	Cyclohexane	1.320	1.300	1.5	94	0.00
31	T	cis-1,2-Dichloroethene	1.553	1.579	-1.7	98	0.00
32	T	1,1,1-Trichloroethane	2.599	2.426	6.7	97	0.00
33	I	1,4-Difluorobenzene	1.000	1.000	0.0	89	0.00
34	T	2-Butanone	0.791	0.767	3.0	99	0.00
35	T	Carbon Tetrachloride	0.905	0.838	7.4	96	0.00
36	T	Benzene	1.079	1.080	-0.1	95	0.00
37	T	1,2-Dichloroethane	0.647	0.653	-0.9	98	0.00
38	T	Trichloroethene	0.471	0.431	8.5	97	0.00
39	T	1,2-Dichloropropane	0.402	0.398	1.0	95	0.00
40	T	1,4-Dioxane	0.221	0.190	14.0	92	0.00
41	T	Tetrahydrofuran	0.461	0.437	5.2	95	0.00
42	T	Bromodichloromethane	0.901	0.915	-1.6	95	0.00
43		Methyl Methacrylate	0.486	0.460	5.3	95	0.00
44	T	2,2,4-Trimethylpentane	1.863	1.868	-0.3	97	0.00
45	T	t-1,3-Dichloropropene	0.497	0.495	0.4	96	0.00
46	T	cis-1,3-Dichloropropene	0.608	0.617	-1.5	96	0.00
47	T	1,1,2-Trichloroethane	0.410	0.418	-2.0	98	0.00
48	T	Dibromochloromethane	0.723	0.731	-1.1	95	0.00

Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042356.D
Acq On : 17 Apr 2025 13:43
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

Quant Time: Apr 18 02:15:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49	T	Bromoform	0.633	0.634	-0.2	91	0.00
50	T	4-Methyl-2-Pentanone	1.314	1.159	11.8	95	0.00
51	T	2-Hexanone	1.179	0.957	18.8	95	0.00
52	T	Tetrachloroethene	0.417	0.368	11.8	91	0.00
53	T	Toluene	1.294	1.293	0.1	96	0.00
54	T	1,2-Dibromoethane	0.586	0.574	2.0	94	0.00
55	I	Chlorobenzene-d5	1.000	1.000	0.0	90	0.00
56		1,1,1,2-Tetrachloroethane	0.605	0.598	1.2	98	0.00
57	T	Chlorobenzene	1.040	0.997	4.1	94	0.00
58	T	Ethyl Benzene	1.981	1.911	3.5	94	0.00
59	T	m/p-Xylene	1.596	1.527	4.3	95	-0.02
60	T	o-Xylene	1.607	1.521	5.4	95	0.00
61	T	Styrene	0.767	0.753	1.8	94	0.00
62		Isopropylbenzene	2.360	2.246	4.8	93	0.00
63	T	1,1,2,2-Tetrachloroethane	1.042	0.914	12.3	95	0.00
64		n-propylbenzene	0.593	0.565	4.7	94	0.00
65		tert-Butylbenzene	2.169	1.996	8.0	95	0.00
66	T	Benzyl Chloride	0.238	0.206	13.4	76	0.00
67		sec-Butylbenzene	3.017	2.796	7.3	95	0.00
68	S	1-Bromo-4-Fluorobenzene	0.822	0.819	0.4	89	0.00
69		p-Isopropyltoluene	2.621	2.416	7.8	95	0.00
70		n-Butylbenzene	2.730	2.526	7.5	96	0.00
71		2-Chlorotoluene	1.851	1.781	3.8	95	0.00
72	T	4-Ethyltoluene	1.965	1.844	6.2	94	0.00
73	T	1,3,5-Trimethylbenzene	1.735	1.593	8.2	95	0.00
74	T	1,2,4-Trimethylbenzene	2.026	1.741	14.1	94	0.00
75	T	1,3-Dichlorobenzene	1.053	0.973	7.6	93	0.00
76	T	1,4-Dichlorobenzene	1.059	0.975	7.9	93	0.00
77	T	1,2-Dichlorobenzene	1.024	0.947	7.5	95	0.00
78	T	Hexachloro-1,3-Butadiene	1.034	0.907	12.3	95	0.00
79	T	Naphthalene	2.423	2.120	12.5	96	0.00
80	T	Naphthalene,2-methyl-	1.381	1.147	16.9	93	0.00
81	T	1,2,4-Trichlorobenzene	1.040	0.951	8.6	95	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

QC SAMPLE DATA

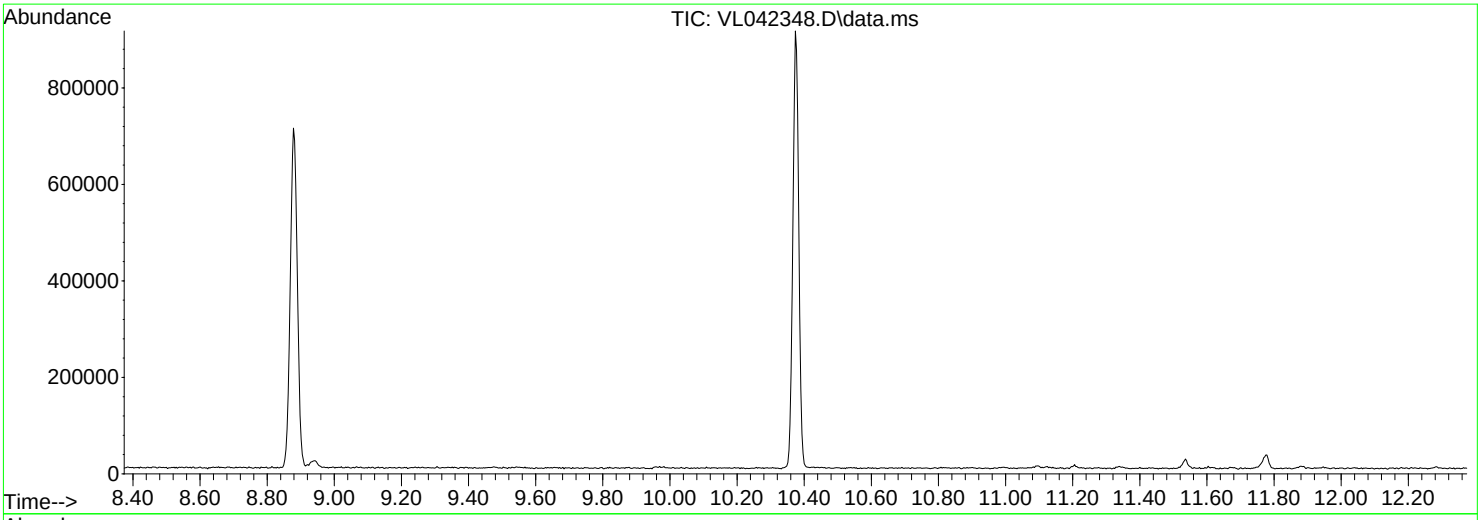
BFB

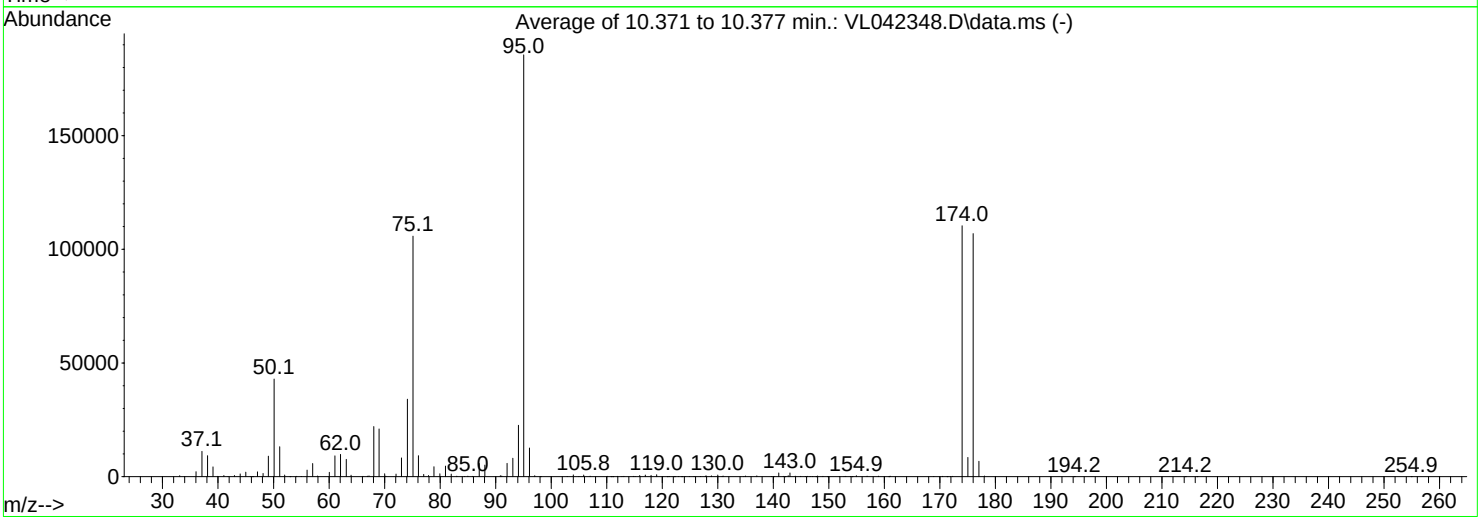
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042348.D
Acq On : 17 Apr 2025 07:50
Operator : SY/MD
Sample : BFB
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
Last Update : Fri Apr 18 02:14:00 2025





AutoFind: Scans 3177, 3178, 3179; Background Corrected with Scan 3162

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	23.1	42933	PASS
75	95	30	66	57.0	105781	PASS
95	95	100	100	100.0	185564	PASS
96	95	5	9	6.8	12627	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	59.5	110360	PASS
175	174	4	9	7.6	8420	PASS
176	174	93	101	96.9	106933	PASS
177	176	5	9	6.3	6744	PASS

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Report of Analysis

Client:	Woodard & Curran	Date Collected:	
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	
Client Sample ID:	VL0417ABL01	SDG No.:	Q1668
Lab Sample ID:	VL0417ABL01	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042357.D	1		04/17/25 14:23	VL041725

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.21	1.04	U	1.04	2.47	ug/m3
74-87-3	Chloromethane	0.10	0.21	U	0.21	1.03	ug/m3
75-01-4	Vinyl Chloride	0.010	0.030	U	0.030	0.080	ug/m3
74-83-9	Bromomethane	0.14	0.54	U	0.54	1.94	ug/m3
75-00-3	Chloroethane	0.17	0.45	U	0.45	1.32	ug/m3
109-99-9	Tetrahydrofuran	0.13	0.38	U	0.38	1.47	ug/m3
75-69-4	Trichlorofluoromethane	0.16	0.90	U	0.90	2.81	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	0.16	1.23	U	1.23	3.83	ug/m3
76-14-2	Dichlorotetrafluoroethane	0.090	0.63	U	0.63	3.49	ug/m3
75-65-0	tert-Butyl alcohol	0.19	0.58	U	0.58	1.52	ug/m3
142-82-5	Heptane	0.11	0.45	U	0.45	2.05	ug/m3
75-35-4	1,1-Dichloroethene	0.14	0.56	U	0.56	1.98	ug/m3
67-64-1	Acetone	0.24	0.57	U	0.57	1.19	ug/m3
75-15-0	Carbon Disulfide	0.16	0.50	U	0.50	1.56	ug/m3
1634-04-4	Methyl tert-Butyl Ether	0.12	0.43	U	0.43	1.80	ug/m3
75-09-2	Methylene Chloride	0.19	0.66	U	0.66	1.74	ug/m3
156-60-5	trans-1,2-Dichloroethene	0.19	0.75	U	0.75	1.98	ug/m3
75-34-3	1,1-Dichloroethane	0.13	0.53	U	0.53	2.02	ug/m3
110-82-7	Cyclohexane	0.22	0.76	U	0.76	1.72	ug/m3
78-93-3	2-Butanone	0.12	0.35	U	0.35	1.47	ug/m3
56-23-5	Carbon Tetrachloride	0.010	0.060	U	0.060	0.19	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.090	0.36	U	0.36	1.98	ug/m3
67-66-3	Chloroform	0.080	0.39	U	0.39	2.44	ug/m3
71-55-6	1,1,1-Trichloroethane	0.010	0.050	U	0.050	0.16	ug/m3
540-84-1	2,2,4-Trimethylpentane	0.10	0.47	U	0.47	2.34	ug/m3
71-43-2	Benzene	0.090	0.29	U	0.29	1.60	ug/m3
107-06-2	1,2-Dichloroethane	0.090	0.36	U	0.36	2.02	ug/m3
79-01-6	Trichloroethene	0.020	0.11	U	0.11	0.16	ug/m3
78-87-5	1,2-Dichloropropane	0.11	0.51	U	0.51	2.31	ug/m3
75-27-4	Bromodichloromethane	0.080	0.54	U	0.54	3.35	ug/m3
108-10-1	4-Methyl-2-Pentanone	0.090	0.37	U	0.37	2.05	ug/m3
108-88-3	Toluene	0.11	0.41	U	0.41	1.88	ug/m3
10061-02-6	t-1,3-Dichloropropene	0.060	0.27	U	0.27	2.27	ug/m3
10061-01-5	cis-1,3-Dichloropropene	0.060	0.27	U	0.27	2.27	ug/m3
79-00-5	1,1,2-Trichloroethane	0.070	0.38	U	0.38	2.73	ug/m3

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Report of Analysis

Client:	Woodard & Curran	Date Collected:	
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	
Client Sample ID:	VL0417ABL01	SDG No.:	Q1668
Lab Sample ID:	VL0417ABL01	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042357.D	1		04/17/25 14:23	VL041725

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	0.070	0.60	U	0.60	4.26	ug/m3
106-93-4	1,2-Dibromoethane	0.070	0.54	U	0.54	0.77	ug/m3
127-18-4	Tetrachloroethene	0.020	0.14	U	0.14	0.20	ug/m3
108-90-7	Chlorobenzene	0.080	0.37	U	0.37	2.30	ug/m3
100-41-4	Ethyl Benzene	0.12	0.52	U	0.52	2.17	ug/m3
179601-23-1	m/p-Xylene	0.21	0.91	U	0.91	4.34	ug/m3
95-47-6	o-Xylene	0.12	0.52	U	0.52	2.17	ug/m3
100-42-5	Styrene	0.11	0.47	U	0.47	2.13	ug/m3
75-25-2	Bromoform	0.060	0.62	U	0.62	5.17	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	0.010	0.070	U	0.070	0.21	ug/m3
95-49-8	2-Chlorotoluene	0.11	0.57	U	0.57	2.59	ug/m3
108-67-8	1,3,5-Trimethylbenzene	0.11	0.54	U	0.54	2.46	ug/m3
95-63-6	1,2,4-Trimethylbenzene	0.080	0.39	U	0.39	2.46	ug/m3
541-73-1	1,3-Dichlorobenzene	0.080	0.48	U	0.48	3.01	ug/m3
106-46-7	1,4-Dichlorobenzene	0.050	0.30	U	0.30	3.01	ug/m3
95-50-1	1,2-Dichlorobenzene	0.080	0.48	U	0.48	3.01	ug/m3
120-82-1	1,2,4-Trichlorobenzene	0.090	0.67	U	0.67	3.71	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	0.090	0.96	U	0.96	5.33	ug/m3
106-99-0	1,3-Butadiene	0.13	0.29	U	0.29	1.11	ug/m3
91-20-3	Naphthalene	0.080	0.42	U	0.42	0.52	ug/m3
622-96-8	4-Ethyltoluene	0.12	0.59	U	0.59	2.46	ug/m3
110-54-3	Hexane	0.11	0.39	U	0.39	1.76	ug/m3
107-05-1	Allyl Chloride	0.15	0.47	U	0.47	1.57	ug/m3
123-91-1	1,4-Dioxane	0.21	0.76	U	0.76	1.80	ug/m3
80-62-6	Methyl Methacrylate	0.090	0.37	U	0.37	2.05	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	10.1			70 (65) - 130 (135)	101%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	114000		2.79			
540-36-3	1,4-Difluorobenzene	329000		3.965			
3114-55-4	Chlorobenzene-d5	298000		8.885			

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Report of Analysis

Client:	Woodard & Curran	Date Collected:	
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	
Client Sample ID:	VL0417ABL01	SDG No.:	Q1668
Lab Sample ID:	VL0417ABL01	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042357.D	1		04/17/25 14:23	VL041725

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
RL = Reporting Limit
MDL = Method Detection Limit
E = Value Exceeds Calibration Range
D = Dilution

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
Q = indicates LCS control criteria did not meet requirements

Quantitation Report (LSC Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042357.D
Acq On : 17 Apr 2025 14:23
Operator : SY/MD
Sample : VL0417ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0417ABL01

Quant Time: Apr 18 02:36:32 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration

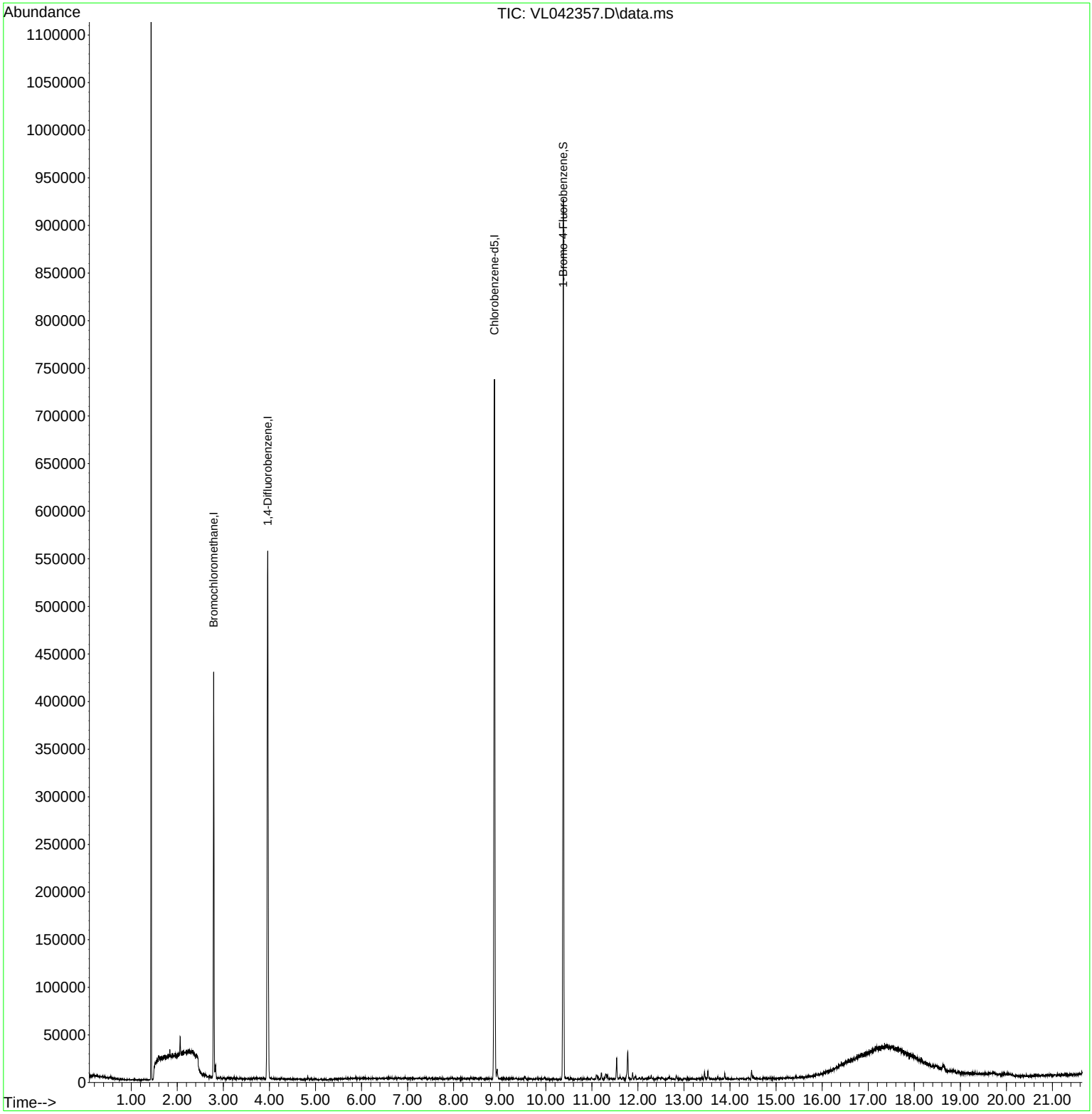
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.790	49	113566	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	328716	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	297633	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.380	95	247968	10.139	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 101.400%			
Target Compounds						Qvalue

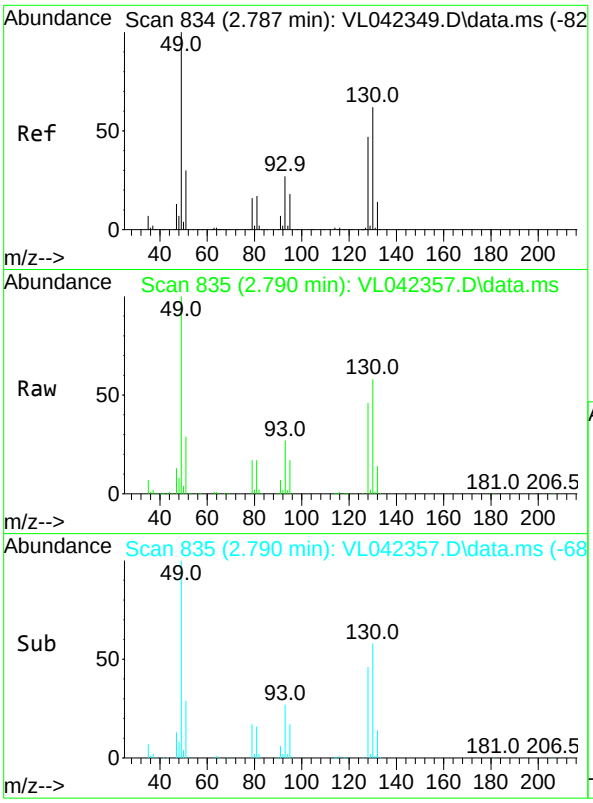
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042357.D
Acq On : 17 Apr 2025 14:23
Operator : SY/MD
Sample : VL0417ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0417ABL01

Quant Time: Apr 18 02:36:32 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration



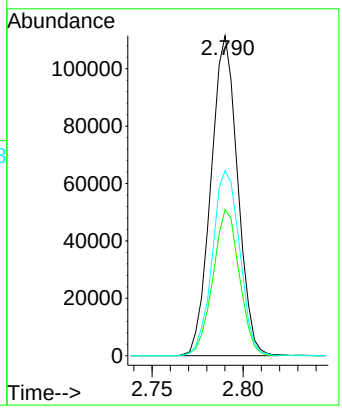


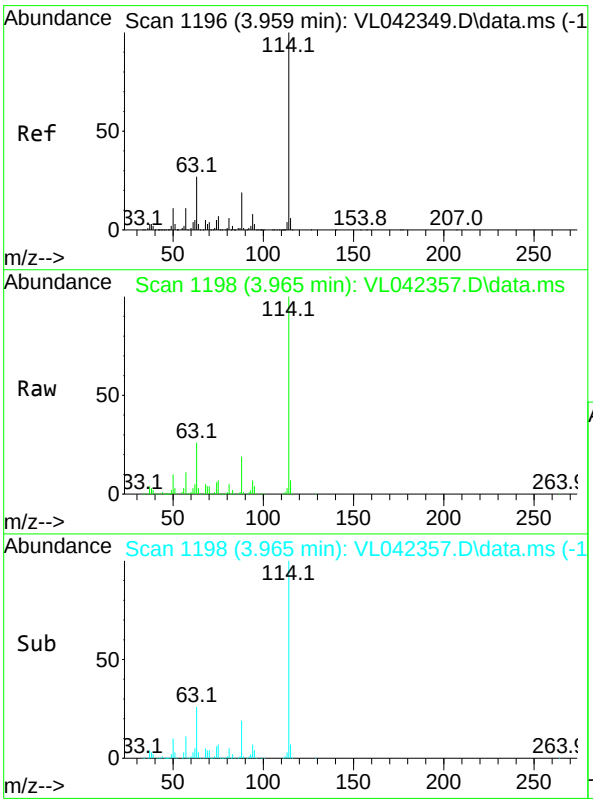
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042357.D
Acq: 17 Apr 2025 14:23

Instrument :
MSVOA_L
ClientSampleId :
VL0417ABL01

Tgt Ion: 49 Resp: 113566

Ion	Ratio	Lower	Upper
49	100		
128	45.4	22.8	68.4
130	59.4	29.3	88.0

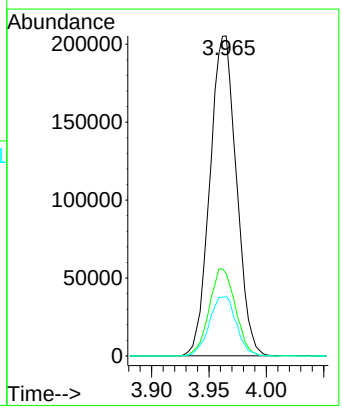


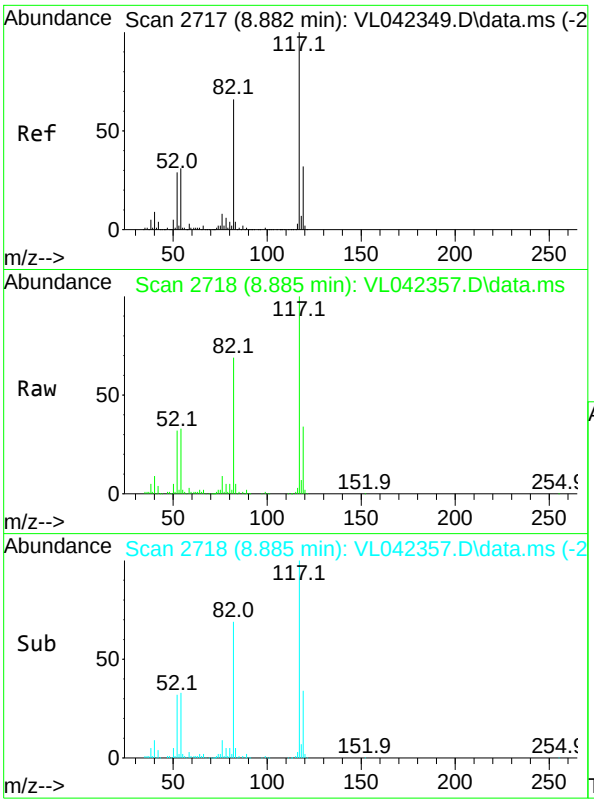


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.965 min Scan# 1198
Delta R.T. 0.006 min
Lab File: VL042357.D
Acq: 17 Apr 2025 14:23

Tgt Ion:114 Resp: 328716

Ion	Ratio	Lower	Upper
114	100		
63	27.0	21.8	32.6
88	18.9	15.5	23.3



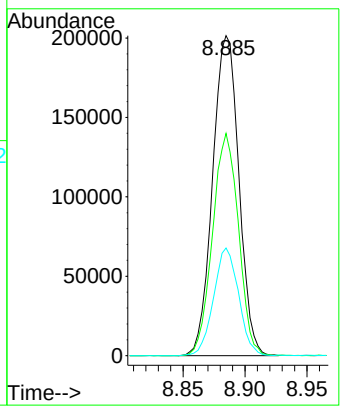


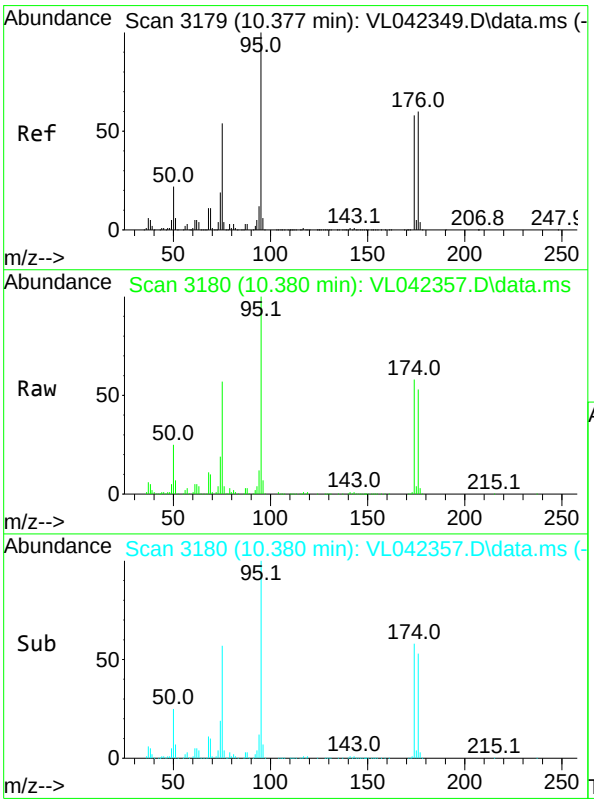
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.885 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042357.D
Acq: 17 Apr 2025 14:23

Instrument :
MSVOA_L
ClientSampleId :
VL0417ABL01

Tgt Ion:117 Resp: 297633

Ion	Ratio	Lower	Upper
117	100		
82	68.6	57.8	86.6
119	32.2	25.2	37.8

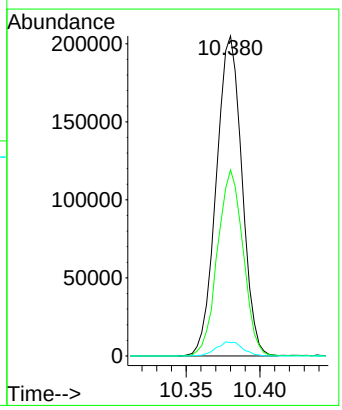




#68
1-Bromo-4-Fluorobenzene
Concen: 10.139 ppbv
RT: 10.380 min Scan# 3180
Delta R.T. 0.003 min
Lab File: VL042357.D
Acq: 17 Apr 2025 14:23

Tgt Ion: 95 Resp: 247968

Ion	Ratio	Lower	Upper
95	100		
174	58.2	48.5	72.7
175	4.5	3.7	5.5



LSC Area Percent Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042357.D
Acq On : 17 Apr 2025 14:23
Operator : SY/MD
Sample : VL0417ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0417ABL01

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 3 Min Area: 3 % of largest Peak
Start Thrs: 0.001 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 0

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

Signal : TIC: VL042357.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.431	411	415	420	rBV	1858765	1108891	96.98%	23.258%
2	1.515	427	441	442	rBV8	17527	27664	2.42%	0.580%
3	2.437	724	726	736	rVB6	14850	19624	1.72%	0.412%
4	2.790	826	835	842	rBV	426285	437188	38.23%	9.169%
5	3.962	1184	1197	1210	rBV2	554736	884344	77.34%	18.548%
6	8.885	2707	2718	2730	rBV	733994	1074923	94.01%	22.545%
7	10.380	3166	3180	3191	rBV	925373	1143427	100.00%	23.982%
8	11.539	3527	3538	3547	rBV3	22959	29990	2.62%	0.629%
9	11.778	3599	3612	3619	rBV4	29173	41816	3.66%	0.877%

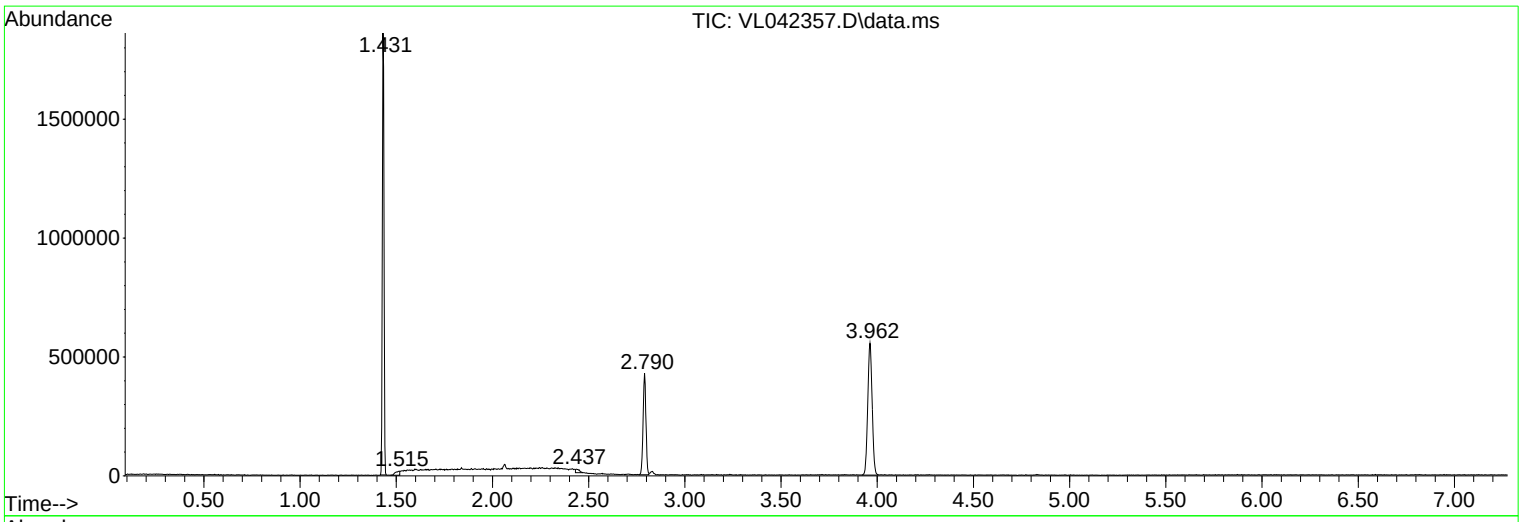
Sum of corrected areas: 4767867

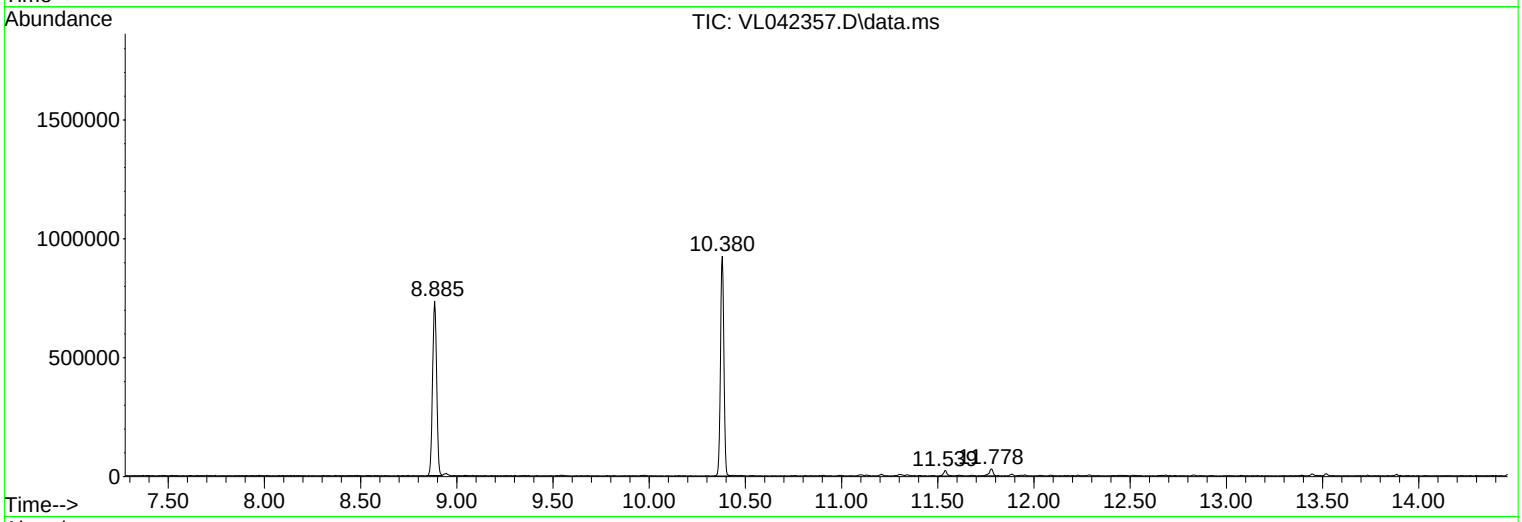
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042357.D
Acq On : 17 Apr 2025 14:23
Operator : SY/MD
Sample : VL0417ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

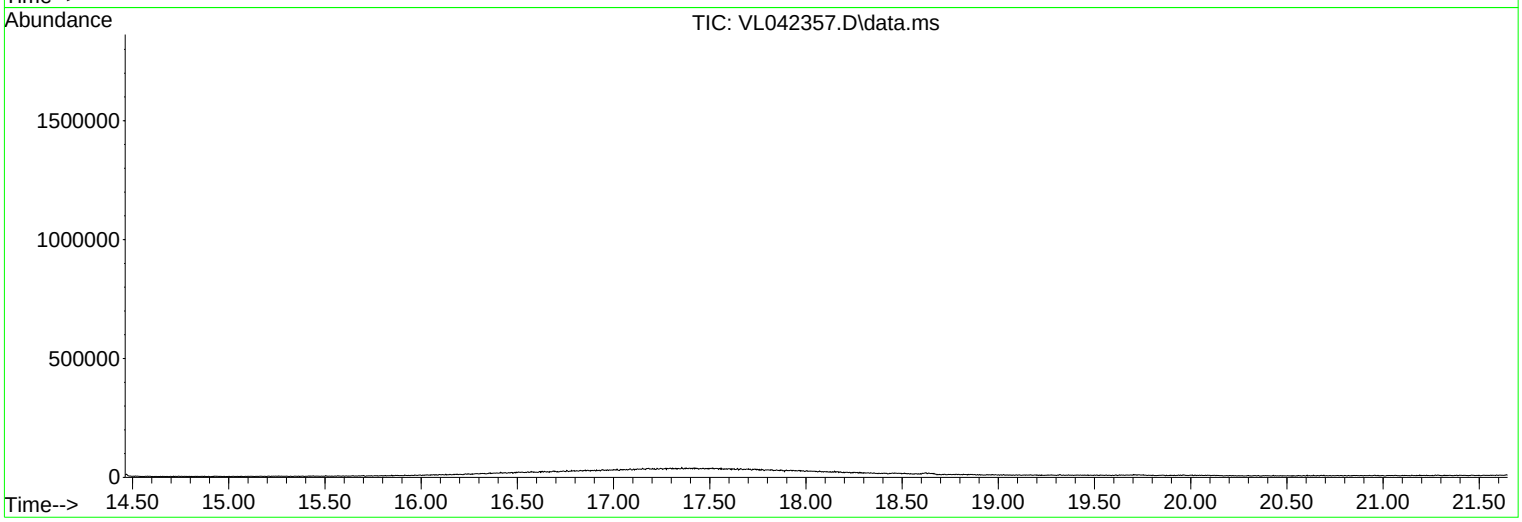
Instrument :
MSVOA_L
ClientSampleId :
VL0417ABL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P







Library Search Compound Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042357.D
Acq On : 17 Apr 2025 14:23
Operator : SY/MD
Sample : VL0417ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0417ABL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042357.D
Acq On : 17 Apr 2025 14:23
Operator : SY/MD
Sample : VL0417ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0417ABL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	Woodard & Curran	Date Collected:	
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	
Client Sample ID:	VL0417ABS01	SDG No.:	Q1668
Lab Sample ID:	VL0417ABS01	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042358.D	1		04/17/25 15:39	VL041725

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	10.3	50.9		1.04	2.47	ug/m3
74-87-3	Chloromethane	10.1	20.9		0.21	1.03	ug/m3
75-01-4	Vinyl Chloride	9.00	23.0		0.030	0.080	ug/m3
74-83-9	Bromomethane	9.20	35.7		0.54	1.94	ug/m3
75-00-3	Chloroethane	10.1	26.6		0.45	1.32	ug/m3
109-99-9	Tetrahydrofuran	9.70	28.6		0.38	1.47	ug/m3
75-69-4	Trichlorofluoromethane	10.1	56.8		0.90	2.81	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	10.1	77.4		1.23	3.83	ug/m3
76-14-2	Dichlorotetrafluoroethane	10.2	71.3		0.63	3.49	ug/m3
75-65-0	tert-Butyl alcohol	9.80	29.7		0.58	1.52	ug/m3
142-82-5	Heptane	9.20	37.7		0.45	2.05	ug/m3
75-35-4	1,1-Dichloroethene	9.80	38.9		0.56	1.98	ug/m3
67-64-1	Acetone	8.70	20.7		0.57	1.19	ug/m3
75-15-0	Carbon Disulfide	10.2	31.8		0.50	1.56	ug/m3
1634-04-4	Methyl tert-Butyl Ether	9.50	34.3		0.43	1.80	ug/m3
75-09-2	Methylene Chloride	8.90	30.9		0.66	1.74	ug/m3
156-60-5	trans-1,2-Dichloroethene	9.70	38.5		0.75	1.98	ug/m3
75-34-3	1,1-Dichloroethane	10.2	41.3		0.53	2.02	ug/m3
110-82-7	Cyclohexane	10.1	34.8		0.76	1.72	ug/m3
78-93-3	2-Butanone	9.80	28.9		0.35	1.47	ug/m3
56-23-5	Carbon Tetrachloride	9.60	60.4		0.060	0.19	ug/m3
156-59-2	cis-1,2-Dichloroethene	10.4	41.2		0.36	1.98	ug/m3
67-66-3	Chloroform	10.2	49.8		0.39	2.44	ug/m3
71-55-6	1,1,1-Trichloroethane	9.70	52.9		0.050	0.16	ug/m3
540-84-1	2,2,4-Trimethylpentane	10.0	46.7		0.47	2.34	ug/m3
71-43-2	Benzene	10.1	32.3		0.29	1.60	ug/m3
107-06-2	1,2-Dichloroethane	10.4	42.1		0.36	2.02	ug/m3
79-01-6	Trichloroethene	9.30	50.0		0.11	0.16	ug/m3
78-87-5	1,2-Dichloropropane	9.90	45.8		0.51	2.31	ug/m3
75-27-4	Bromodichloromethane	10.3	69.0		0.54	3.35	ug/m3
108-10-1	4-Methyl-2-Pentanone	8.80	36.1		0.37	2.05	ug/m3
108-88-3	Toluene	9.80	36.9		0.41	1.88	ug/m3
10061-02-6	t-1,3-Dichloropropene	9.90	44.9		0.27	2.27	ug/m3
10061-01-5	cis-1,3-Dichloropropene	10.1	45.9		0.27	2.27	ug/m3
79-00-5	1,1,2-Trichloroethane	10.2	55.6		0.38	2.73	ug/m3

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	Woodard & Curran	Date Collected:	
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	
Client Sample ID:	VL0417ABS01	SDG No.:	Q1668
Lab Sample ID:	VL0417ABS01	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042358.D	1		04/17/25 15:39	VL041725

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	10.3	87.8		0.60	4.26	ug/m3
106-93-4	1,2-Dibromoethane	9.90	76.1		0.54	0.77	ug/m3
127-18-4	Tetrachloroethene	8.80	59.7		0.14	0.20	ug/m3
108-90-7	Chlorobenzene	10.0	46.0		0.37	2.30	ug/m3
100-41-4	Ethyl Benzene	10.0	43.4		0.52	2.17	ug/m3
179601-23-1	m/p-Xylene	19.8	86.0		0.91	4.34	ug/m3
95-47-6	o-Xylene	9.80	42.6		0.52	2.17	ug/m3
100-42-5	Styrene	10.1	43.0		0.47	2.13	ug/m3
75-25-2	Bromoform	9.90	102		0.62	5.17	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	8.90	61.1		0.070	0.21	ug/m3
95-49-8	2-Chlorotoluene	9.90	51.3		0.57	2.59	ug/m3
108-67-8	1,3,5-Trimethylbenzene	9.60	47.2		0.54	2.46	ug/m3
95-63-6	1,2,4-Trimethylbenzene	9.00	44.3		0.39	2.46	ug/m3
541-73-1	1,3-Dichlorobenzene	9.50	57.1		0.48	3.01	ug/m3
106-46-7	1,4-Dichlorobenzene	9.40	56.5		0.30	3.01	ug/m3
95-50-1	1,2-Dichlorobenzene	9.50	57.1		0.48	3.01	ug/m3
120-82-1	1,2,4-Trichlorobenzene	9.40	69.8		0.67	3.71	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	9.10	97.1		0.96	5.33	ug/m3
106-99-0	1,3-Butadiene	9.10	20.1		0.29	1.11	ug/m3
91-20-3	Naphthalene	9.00	47.2		0.42	0.52	ug/m3
622-96-8	4-Ethyltoluene	9.60	47.2		0.59	2.46	ug/m3
110-54-3	Hexane	9.80	34.5		0.39	1.76	ug/m3
107-05-1	Allyl Chloride	9.70	30.4		0.47	1.57	ug/m3
123-91-1	1,4-Dioxane	8.70	31.4		0.76	1.80	ug/m3
80-62-6	Methyl Methacrylate	9.30	38.1		0.37	2.05	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	10.1			70 (65) - 130 (135)	101%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	122000	2.79				
540-36-3	1,4-Difluorobenzene	352000	3.965				
3114-55-4	Chlorobenzene-d5	322000	8.888				

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Report of Analysis

Client:	Woodard & Curran	Date Collected:	
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	
Client Sample ID:	VL0417ABS01	SDG No.:	Q1668
Lab Sample ID:	VL0417ABS01	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042358.D	1		04/17/25 15:39	VL041725

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
RL = Reporting Limit
MDL = Method Detection Limit
E = Value Exceeds Calibration Range
D = Dilution

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
Q = indicates LCS control criteria did not meet requirements

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042358.D
Acq On : 17 Apr 2025 15:39
Operator : SY/MD
Sample : VL0417ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 18 02:36:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.790	49	122375	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	352201	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.888	117	321521	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.380	95	266757	10.096	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 101.000%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	223505	10.337	ppbv	97
3) Chlorodifluoromethane	1.476	51	206172	10.014	ppbv	100
4) Chloromethane	1.535	50	86675	10.130	ppbv	98
5) Vinyl Chloride	1.583	62	83419	8.956	ppbv	98
6) Bromomethane	1.670	94	36951	9.235	ppbv	83
7) Chloroethane	1.706	64	33936	10.075	ppbv	100
8) Dichlorotetrafluoroethane	1.557	85	189924	10.231	ppbv	95
9) Propene	1.486	41	88088	9.395	ppbv	98
10) Heptane	4.985	43	243501	9.244	ppbv	99
11) Trichlorofluoromethane	1.881	101	206645	10.050	ppbv	98
12) 1,1,2-Trichlorotrifluo...	2.140	101	169501	10.083	ppbv	98
13) Ethanol	1.722	45	4837	3.246	ppbv	88
14) Bromoethene	1.784	108	62214	9.818	ppbv	98
15) Acetone	1.836	43	175153	8.743	ppbv	100
16) 1,3-Butadiene	1.609	39	86965	9.076	ppbv	96
17) tert-Butyl alcohol	2.043	59	242154	9.754	ppbv	100
18) 1,1-Dichloroethene	2.036	96	77247	9.836	ppbv	99
19) Isopropyl Alcohol	1.887	45	104123	9.356	ppbv	94
20) Methylene Chloride	2.062	84	69548	8.865	ppbv	91
21) Allyl Chloride	2.098	41	134221	9.704	ppbv	99
22) trans-1,2-Dichloroethene	2.344	96	86323	9.653	ppbv	97
23) Vinyl Acetate	2.467	43	68337	8.427	ppbv #	97
24) 1,1-Dichloroethane	2.412	63	173238	10.199	ppbv	99
25) Ethyl Acetate	2.839	43	488686	9.894	ppbv	100
26) Hexane	2.829	57	195124	9.761	ppbv	97
27) Carbon Disulfide	2.153	76	218345	10.202	ppbv	97
28) Methyl tert-Butyl Ether	2.444	73	124554	9.510	ppbv	96
29) Chloroform	2.852	83	289294	10.239	ppbv	99
30) Cyclohexane	3.862	84	163017	10.088	ppbv	100
31) cis-1,2-Dichloroethene	2.726	61	198108	10.424	ppbv	98
32) 1,1,1-Trichloroethane	3.373	97	309460	9.729	ppbv	99
34) 2-Butanone	2.561	43	272600	9.787	ppbv	99
35) Carbon Tetrachloride	3.768	117	305245	9.576	ppbv	92
36) Benzene	3.661	78	383239	10.088	ppbv	98
37) 1,2-Dichloroethane	3.224	62	236611	10.377	ppbv	99
38) Trichloroethene	4.558	130	153596	9.251	ppbv	98
39) 1,2-Dichloropropane	4.321	63	139669	9.866	ppbv	95
40) 1,4-Dioxane	4.590	88	67808	8.716	ppbv #	95
41) Tetrahydrofuran	3.059	42	157777	9.715	ppbv	99
42) Bromodichloromethane	4.496	83	327652	10.326	ppbv	98
43) Methyl Methacrylate	4.888	69	159292	9.304	ppbv	95
44) 2,2,4-Trimethylpentane	4.648	57	657377	10.019	ppbv	99
45) t-1,3-Dichloropropene	6.422	75	172514	9.864	ppbv	91

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042358.D
Acq On : 17 Apr 2025 15:39
Operator : SY/MD
Sample : VL0417ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 18 02:36:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) cis-1,3-Dichloropropene	5.606	75	216901	10.133	ppbv		91
47) 1,1,2-Trichloroethane	6.590	97	146547	10.161	ppbv		96
48) Dibromochloromethane	7.396	129	261470	10.261	ppbv		100
49) Bromoform	9.487	173	221372	9.936	ppbv		99
50) 4-Methyl-2-Pentanone	5.758	43	407804	8.810	ppbv		99
51) 2-Hexanone	7.441	43	332646	8.013	ppbv	#	98
52) Tetrachloroethene	8.231	164	128670	8.763	ppbv		96
53) Toluene	6.943	91	447581	9.818	ppbv		100
54) 1,2-Dibromoethane	7.658	107	204328	9.899	ppbv		97
56) 1,1,1,2-Tetrachloroethane	8.930	131	199945	10.275	ppbv		96
57) Chlorobenzene	8.927	112	335143	10.022	ppbv		99
58) Ethyl Benzene	9.361	91	635446	9.975	ppbv		97
59) m/p-Xylene	9.555	91	1016404m	19.806	ppbv		
60) o-Xylene	9.969	91	506535	9.802	ppbv		99
61) Styrene	9.875	104	248022	10.055	ppbv		99
62) Isopropylbenzene	10.545	105	745571	9.827	ppbv		99
63) 1,1,2,2-Tetrachloroethane	9.969	83	298581	8.916	ppbv		100
64) n-propylbenzene	10.995	120	188310	9.875	ppbv		95
65) tert-Butylbenzene	11.536	119	668687	9.589	ppbv		93
66) Benzyl Chloride	11.620	91	69058	9.012	ppbv		96
67) sec-Butylbenzene	11.772	105	930426	9.592	ppbv		100
69) p-Isopropyltoluene	11.931	119	795532	9.441	ppbv		99
70) n-Butylbenzene	12.287	91	846427	9.644	ppbv		100
71) 2-Chlorotoluene	10.905	91	591154	9.934	ppbv		99
72) 4-Ethyltoluene	11.131	105	606879	9.606	ppbv		99
73) 1,3,5-Trimethylbenzene	11.209	105	533060	9.557	ppbv		98
74) 1,2,4-Trimethylbenzene	11.542	105	584747	8.976	ppbv		96
75) 1,3-Dichlorobenzene	11.613	146	320811	9.474	ppbv		99
76) 1,4-Dichlorobenzene	11.675	146	319376	9.384	ppbv		100
77) 1,2-Dichlorobenzene	11.953	146	311460	9.459	ppbv		99
78) Hexachloro-1,3-Butadiene	13.886	225	303379	9.124	ppbv		99
79) Naphthalene	13.517	128	701010	8.999	ppbv		99
80) Naphthalene,2-methyl-	14.462	142	369891	8.331	ppbv		98
81) 1,2,4-Trichlorobenzene	13.445	180	315002	9.417	ppbv		99

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

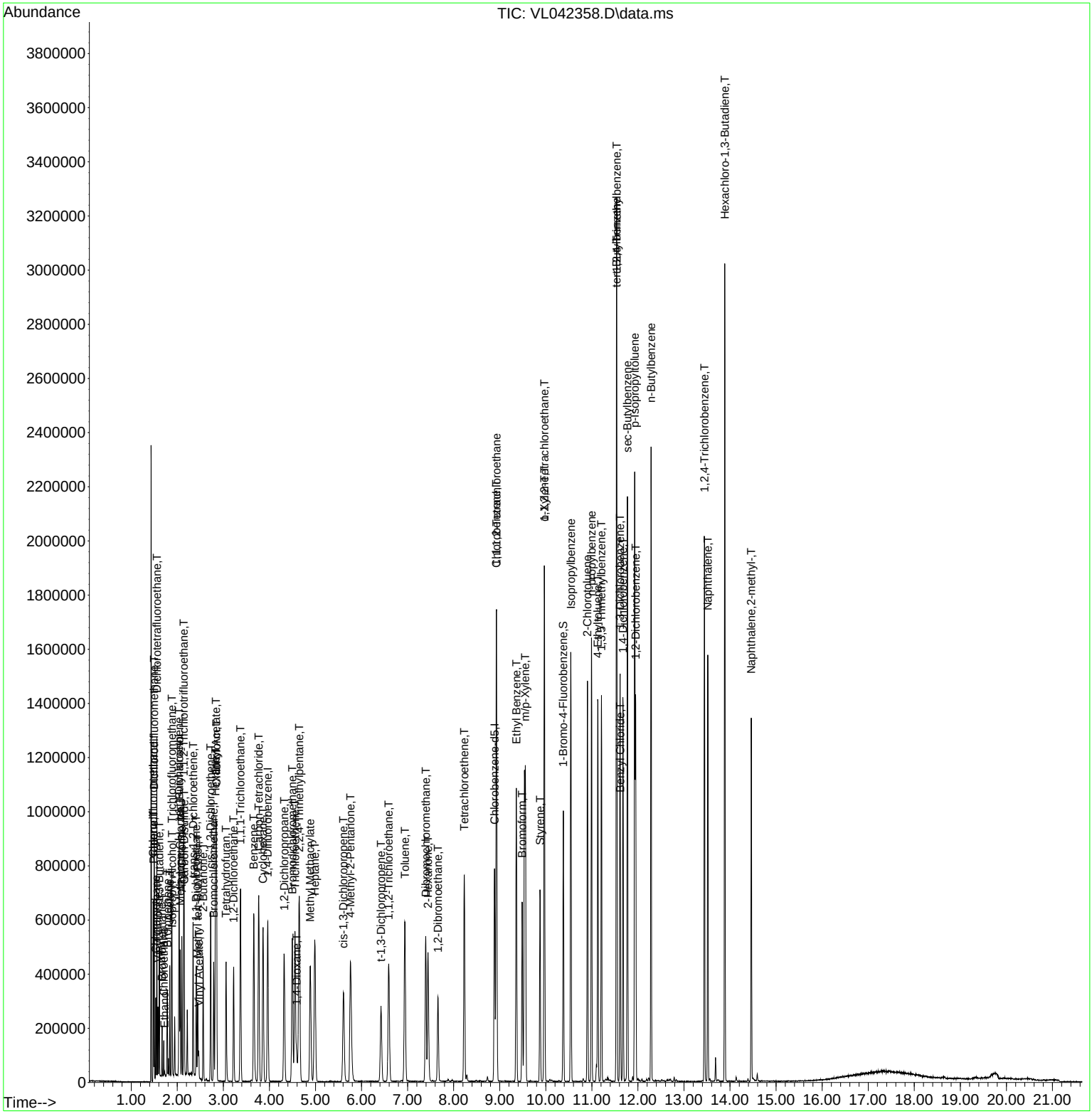
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042358.D
Acq On : 17 Apr 2025 15:39
Operator : SY/MD
Sample : VL0417ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

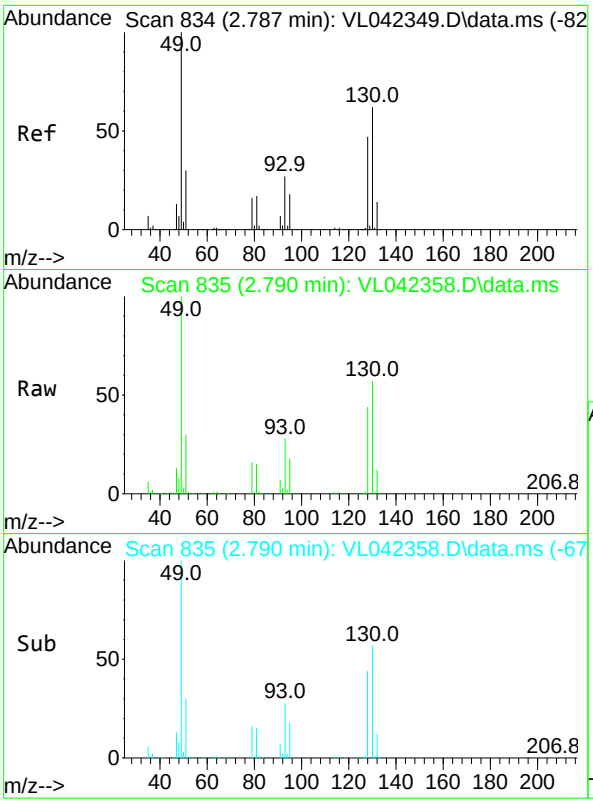
Quant Time: Apr 18 02:36:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

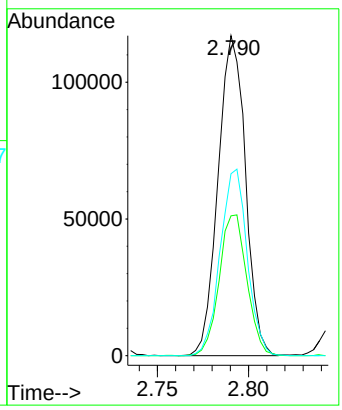




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 49 Resp: 12237

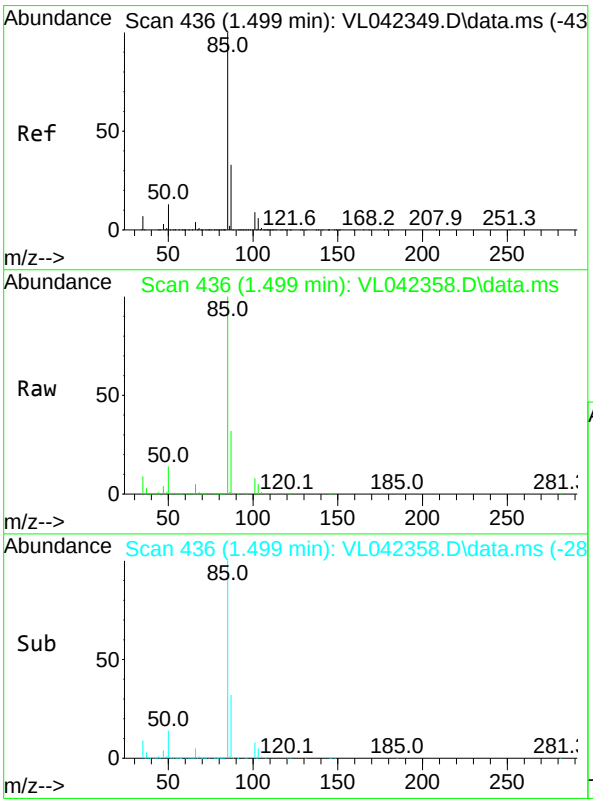
Ion	Ratio	Lower	Upper
49	100		
128	44.5	22.8	68.4
130	57.6	29.3	88.0



Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01

Manual Integrations
APPROVED

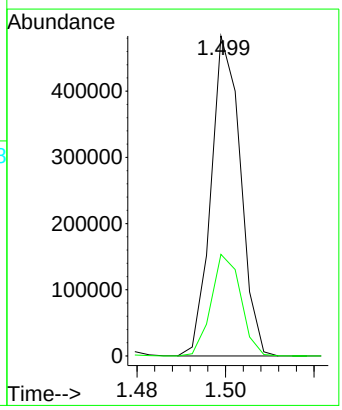
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

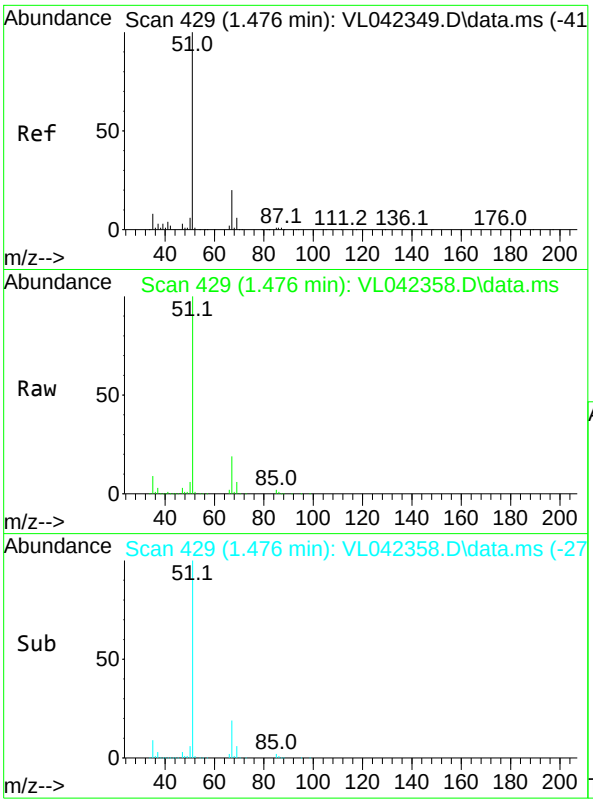


#2
Dichlorodifluoromethane
Concen: 10.337 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.000 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 85 Resp: 223505

Ion	Ratio	Lower	Upper
85	100		
87	31.7	26.6	39.8

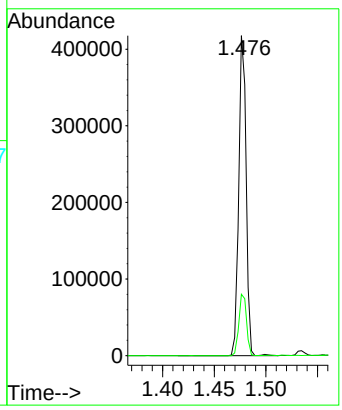




#3
Chlorodifluoromethane
Concen: 10.014 ppbv
RT: 1.476 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 51 Resp: 20617

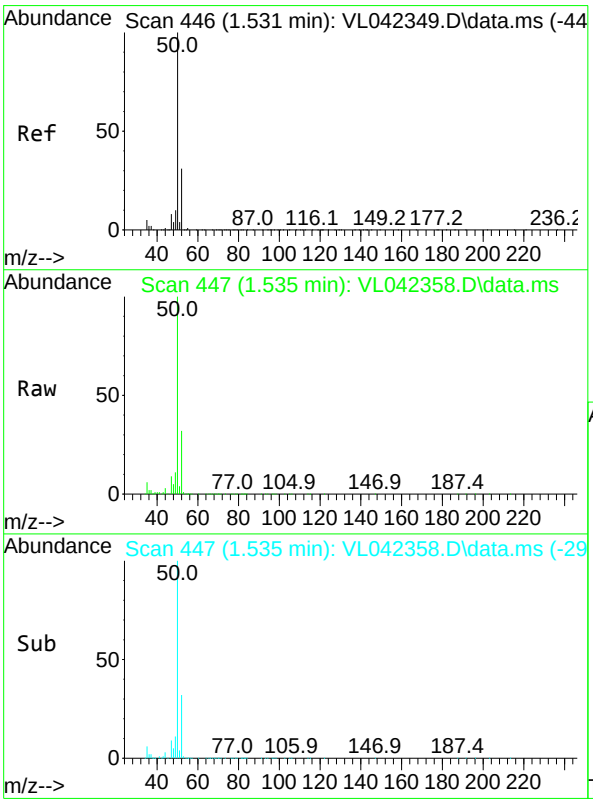
Ion	Ratio	Lower	Upper
51	100		
67	20.2	16.2	24.4



Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01

Manual Integrations
APPROVED

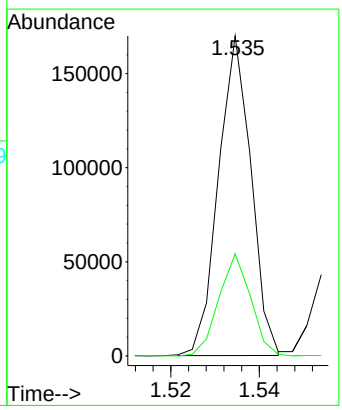
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

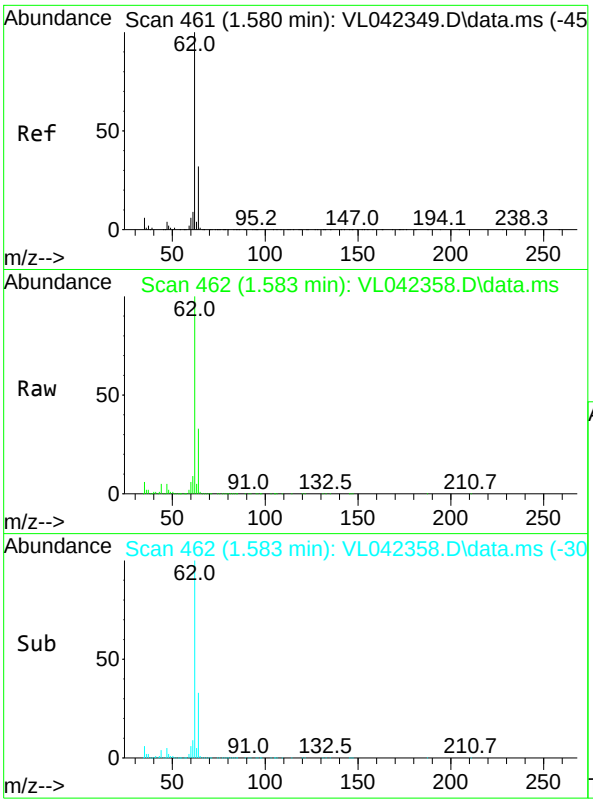


#4
Chloromethane
Concen: 10.130 ppbv
RT: 1.535 min Scan# 447
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 50 Resp: 86675

Ion	Ratio	Lower	Upper
50	100		
52	32.1	24.7	37.1

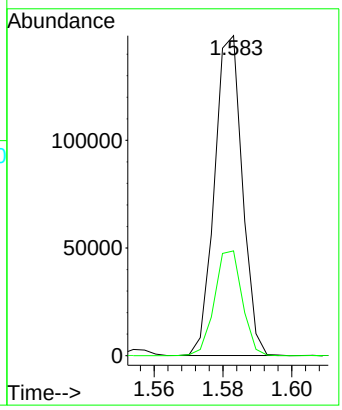




#5
Vinyl Chloride
Concen: 8.956 ppbv
RT: 1.583 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 62 Resp: 8341

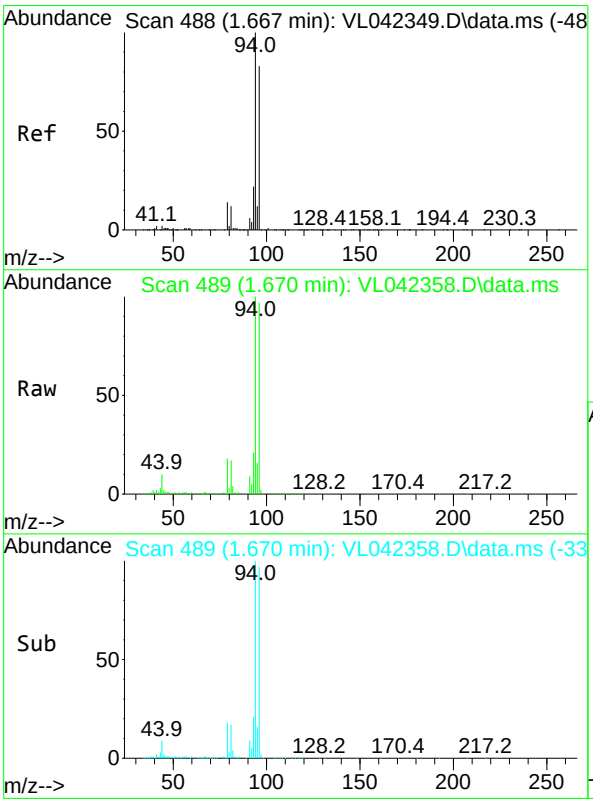
Ion	Ratio	Lower	Upper
62	100		
64	32.8	25.4	38.0



Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01

Manual Integrations
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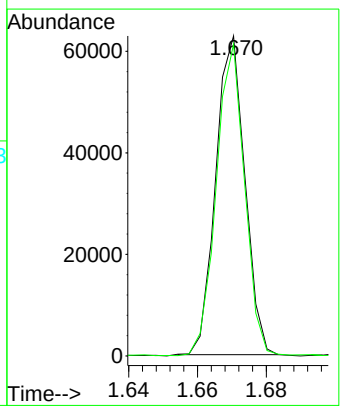
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

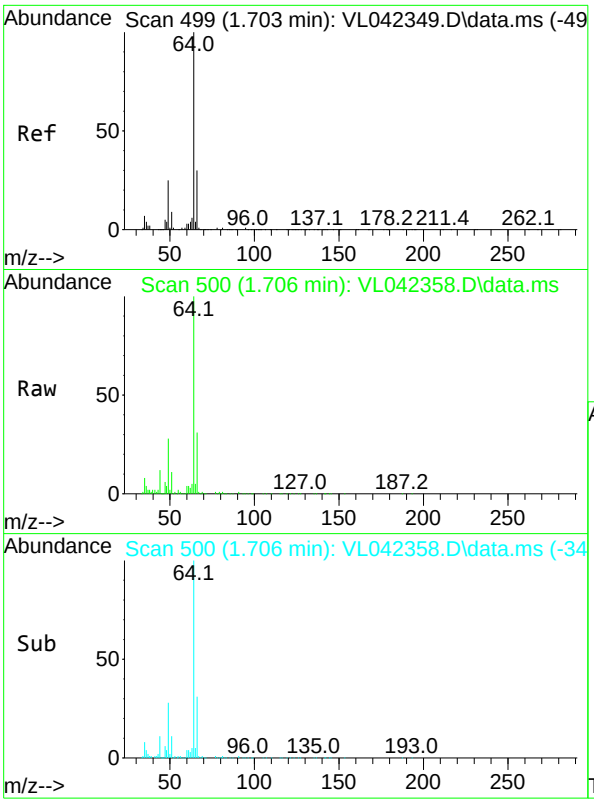


#6
Bromomethane
Concen: 9.235 ppbv
RT: 1.670 min Scan# 489
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 94 Resp: 36951

Ion	Ratio	Lower	Upper
94	100		
96	97.7	66.2	99.2

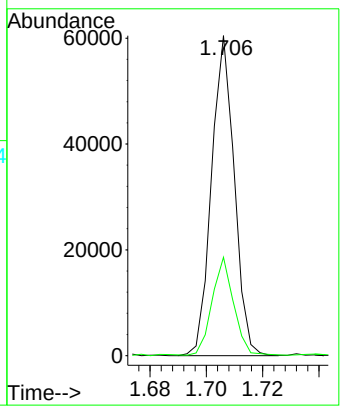




#7
Chloroethane
Concen: 10.075 ppbv
RT: 1.706 min Scan# 5(
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 64 Resp: 3393(

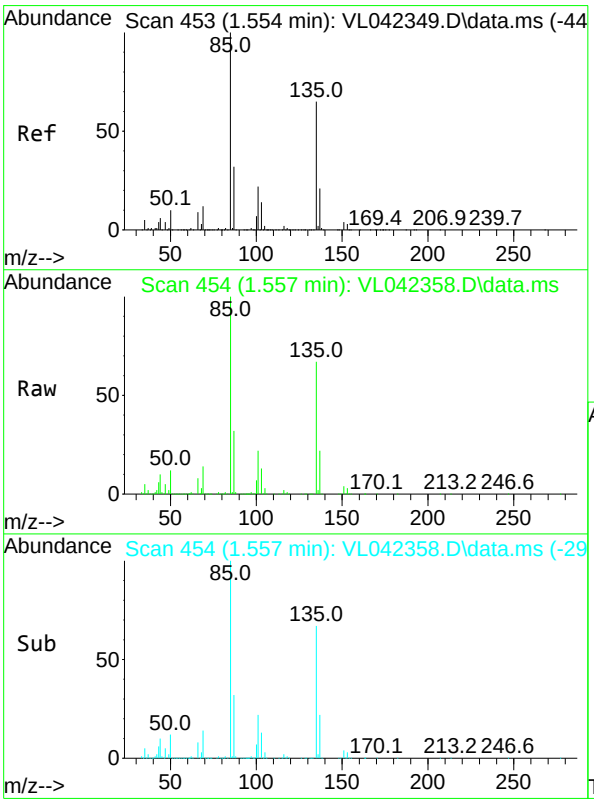
Ion	Ratio	Lower	Upper
64	100		
66	30.7	24.6	37.0



Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01

Manual Integrations
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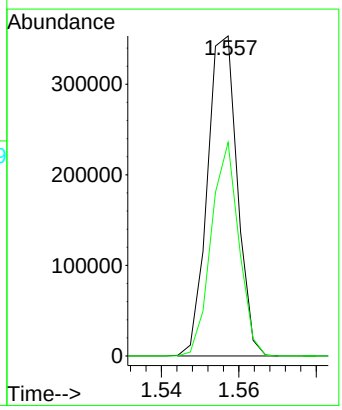
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

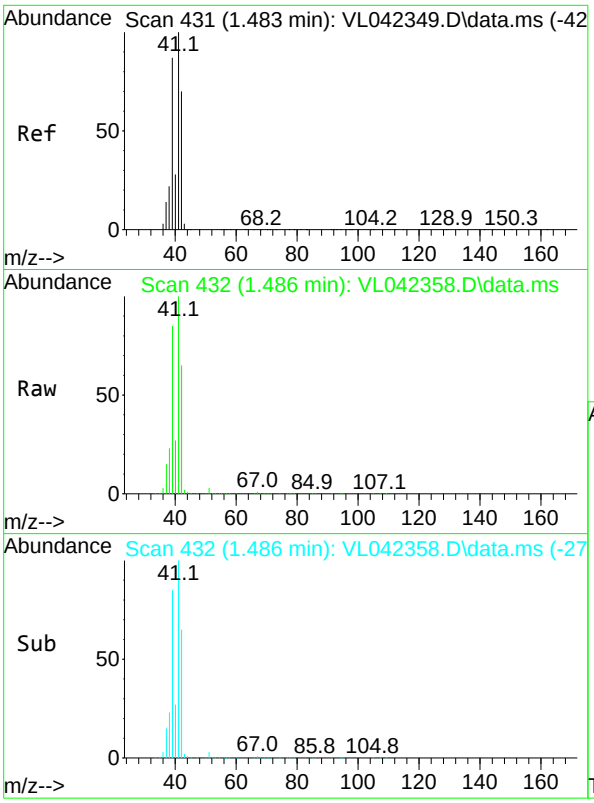


#8
Dichlorotetrafluoroethane
Concen: 10.231 ppbv
RT: 1.557 min Scan# 454
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 85 Resp: 189924

Ion	Ratio	Lower	Upper
85	100		
135	61.4	52.2	78.2

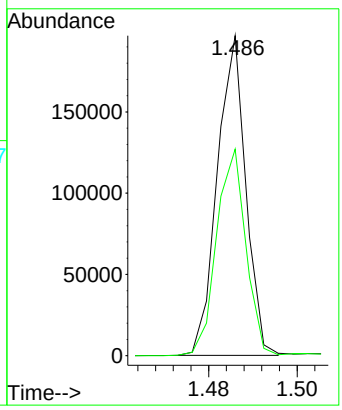




#9
Propene
Concen: 9.395 ppbv
RT: 1.486 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 41 Resp: 8808

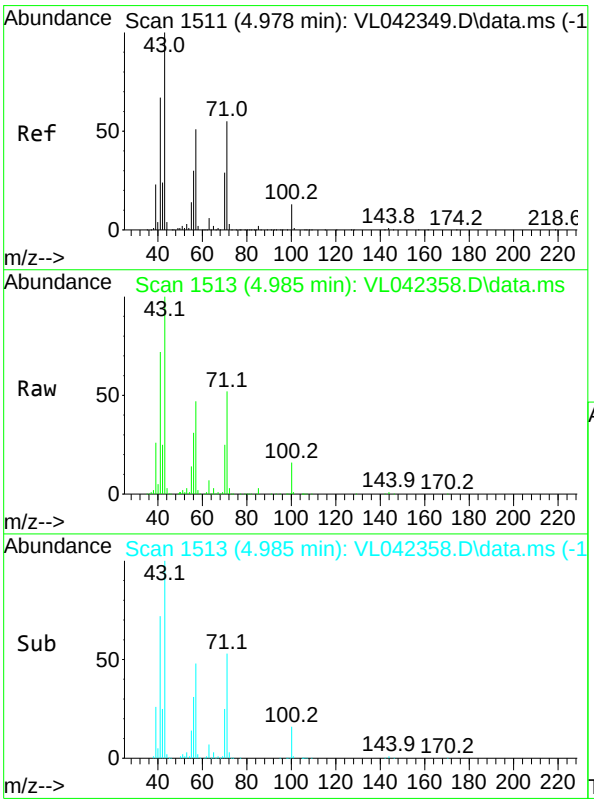
Ion	Ratio	Lower	Upper
41	100		
42	68.4	56.2	84.4



Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01

Manual Integrations
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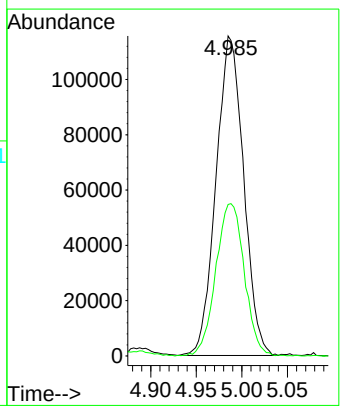
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

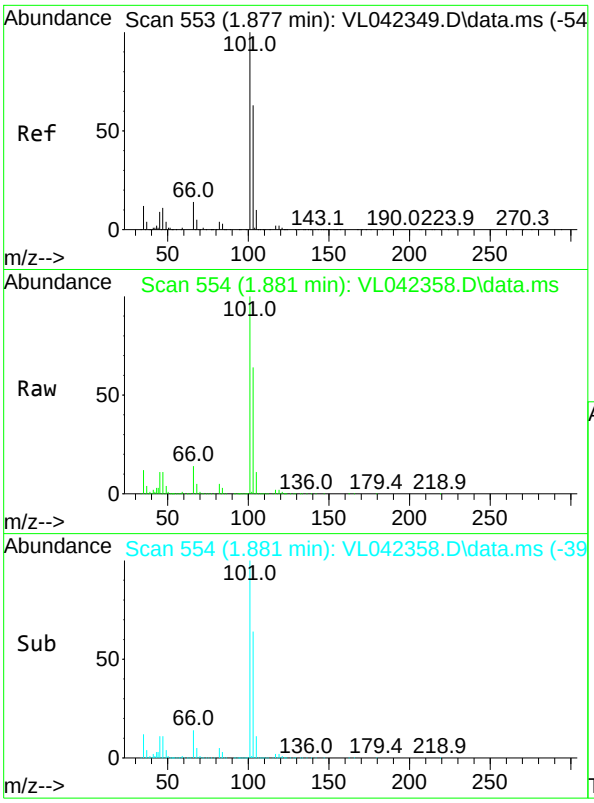


#10
Heptane
Concen: 9.244 ppbv
RT: 4.985 min Scan# 1513
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 43 Resp: 243501

Ion	Ratio	Lower	Upper
43	100		
57	49.4	39.9	59.9

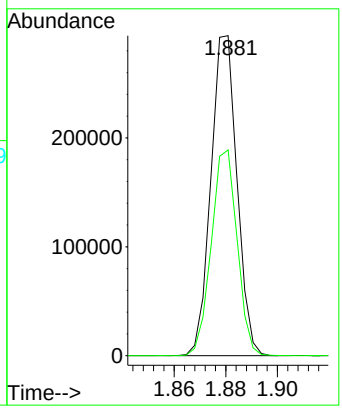




#11
Trichlorofluoromethane
Concen: 10.050 ppbv
RT: 1.881 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion:101 Resp: 20664

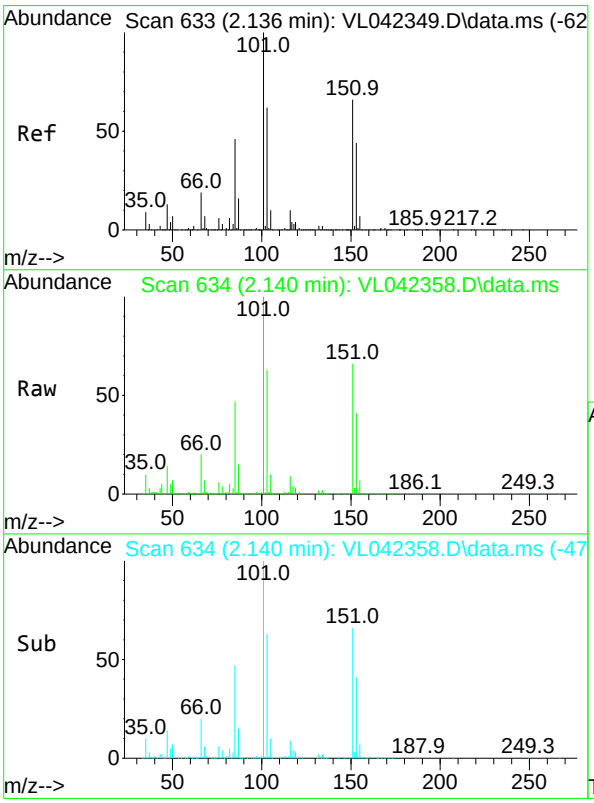
Ion	Ratio	Lower	Upper
101	100		
103	64.3	50.1	75.1



Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01

Manual Integrations
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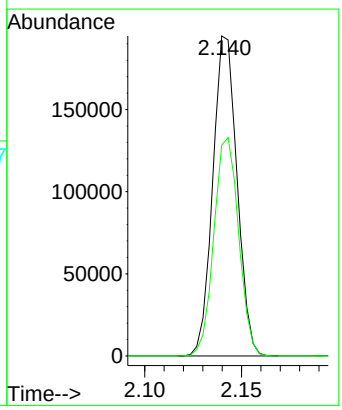
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

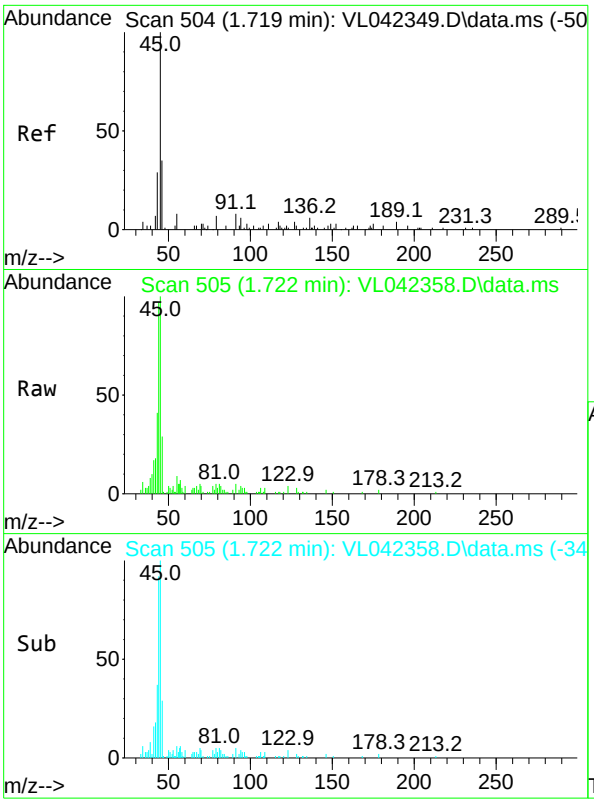


#12
1,1,2-Trichlorotrifluoroethane
Concen: 10.083 ppbv
RT: 2.140 min Scan# 634
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion:101 Resp: 169501

Ion	Ratio	Lower	Upper
101	100		
151	69.6	57.0	85.6





#13
Ethanol
Concen: 3.246 ppbv
RT: 1.722 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

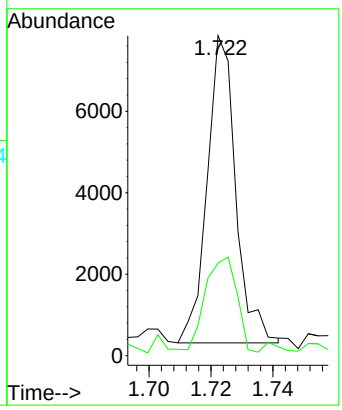
Tgt Ion: 45 Resp: 483

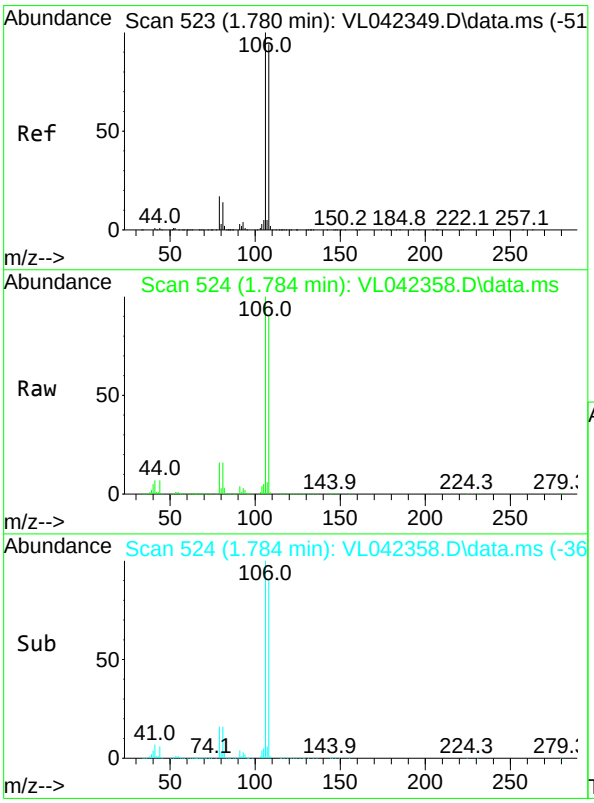
Ion	Ratio	Lower	Upper
45	100		
46	45.8	21.9	87.7

Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01

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Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

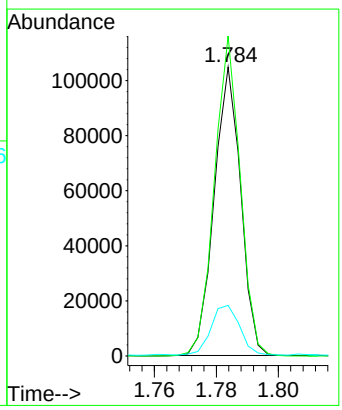


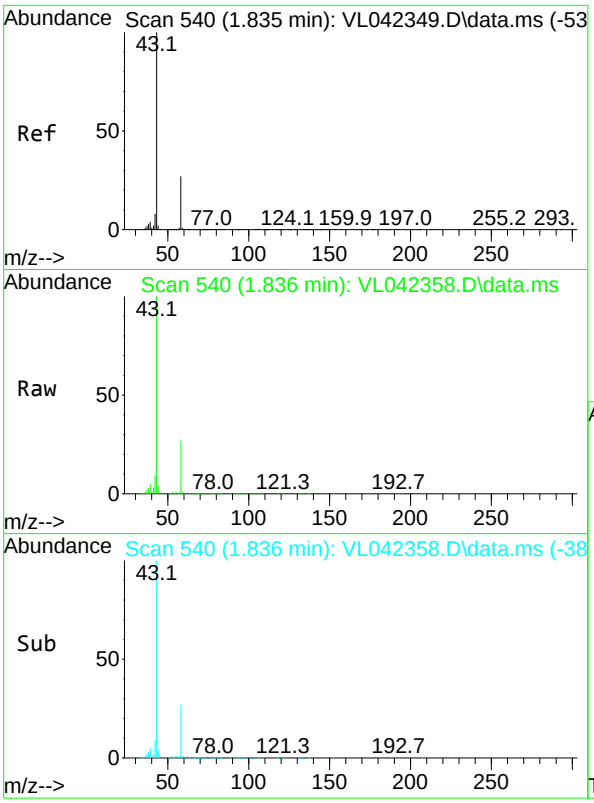


#14
Bromoethene
Concen: 9.818 ppbv
RT: 1.784 min Scan# 524
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion:108 Resp: 62214

Ion	Ratio	Lower	Upper
108	100		
106	108.2	85.9	128.9
79	20.6	13.9	20.9

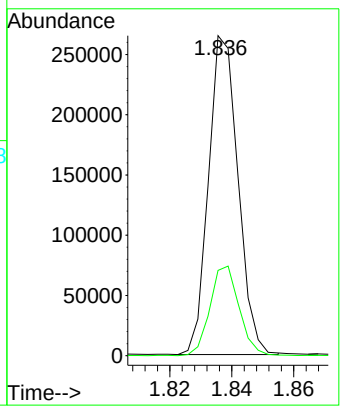




#15
Acetone
Concen: 8.743 ppbv
RT: 1.836 min Scan# 54
Delta R.T. 0.000 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 43 Resp: 17515

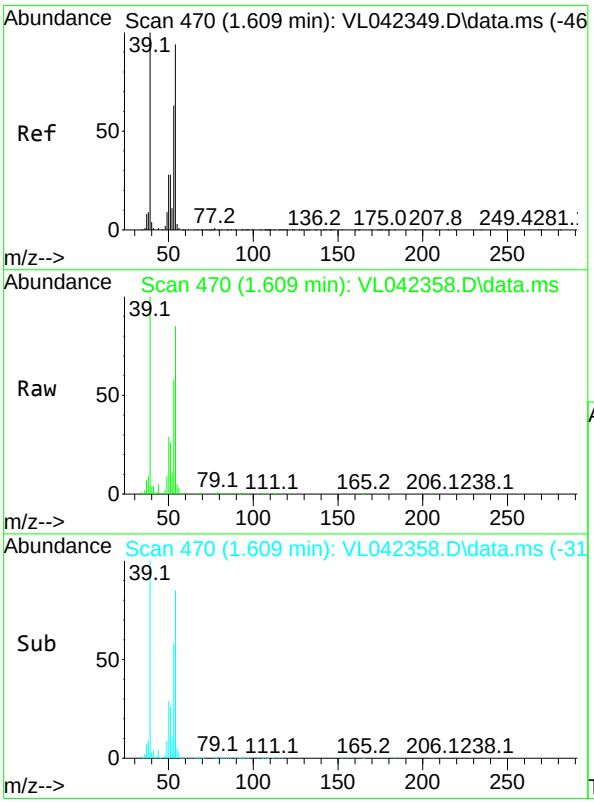
Ion	Ratio	Lower	Upper
43	100		
58	27.9	22.4	33.6



Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01

Manual Integrations
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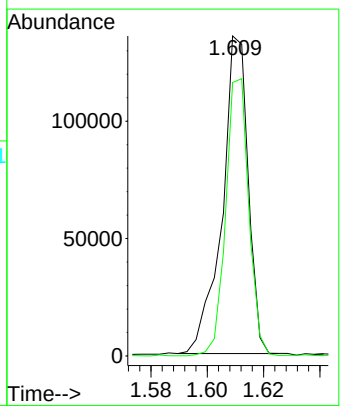
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

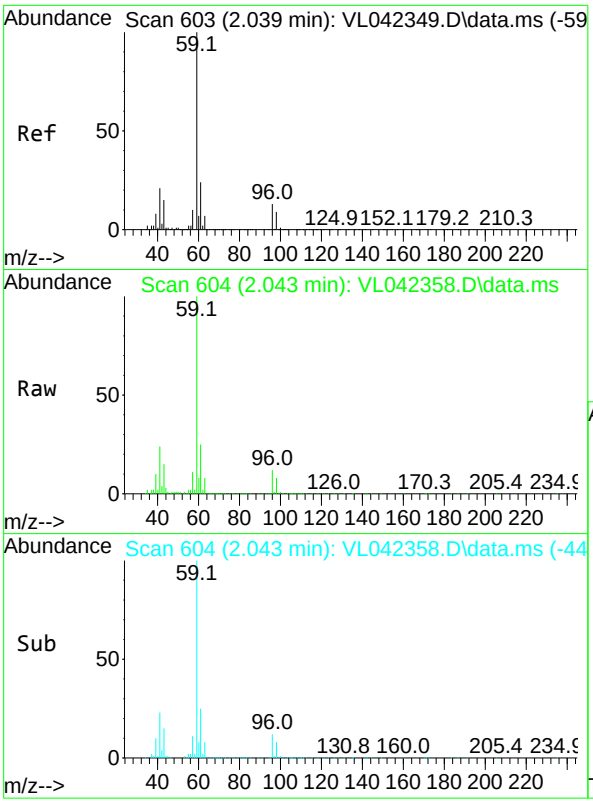


#16
1,3-Butadiene
Concen: 9.076 ppbv
RT: 1.609 min Scan# 470
Delta R.T. 0.000 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 39 Resp: 86965

Ion	Ratio	Lower	Upper
39	100		
54	77.9	64.9	97.3

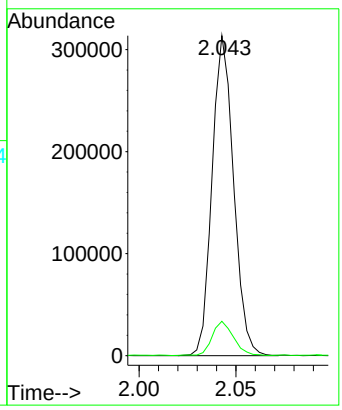




#17
tert-Butyl alcohol
Concen: 9.754 ppbv
RT: 2.043 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 59 Resp: 24215

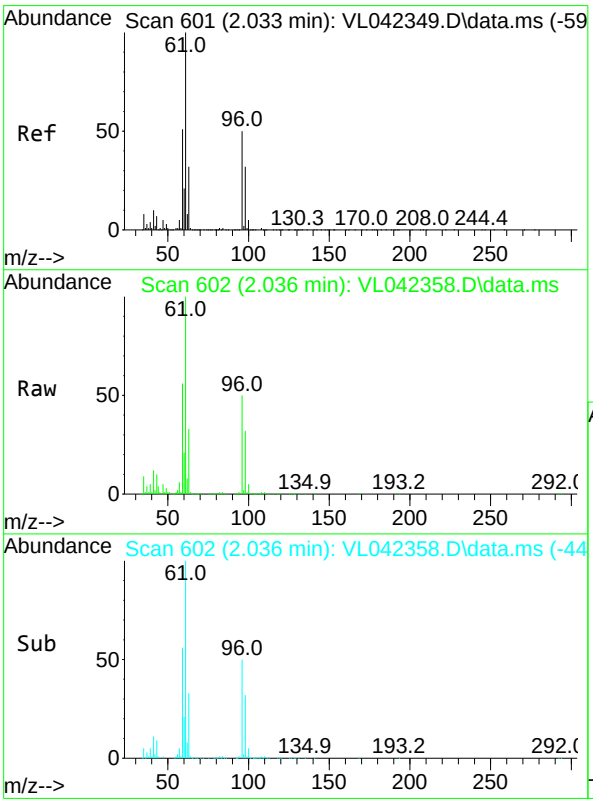
Ion	Ratio	Lower	Upper
59	100		
57	10.9	8.7	13.1



Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01

Manual Integrations
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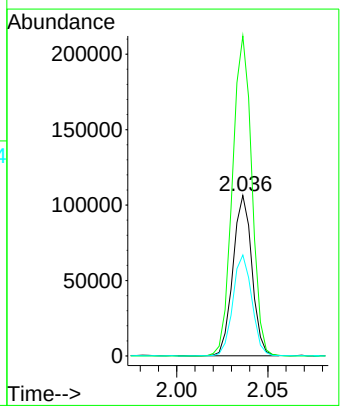
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

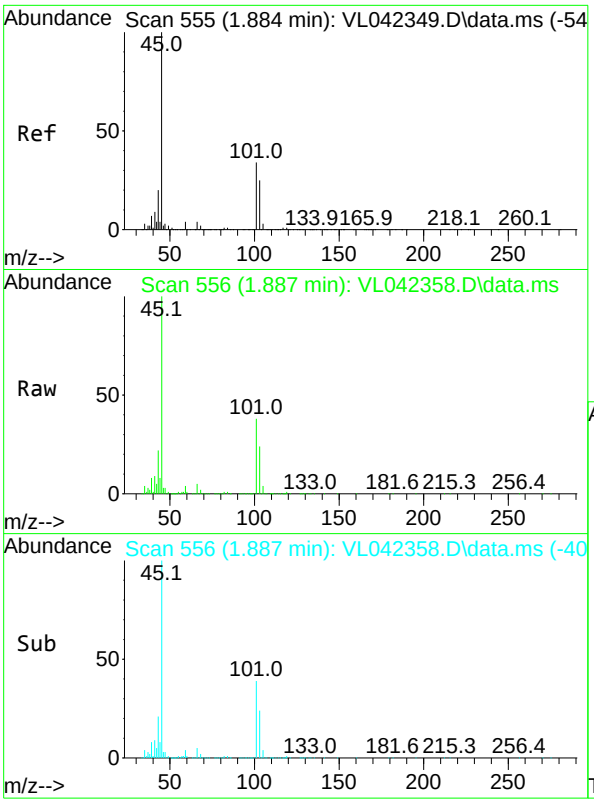


#18
1,1-Dichloroethene
Concen: 9.836 ppbv
RT: 2.036 min Scan# 602
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 96 Resp: 77247

Ion	Ratio	Lower	Upper
96	100		
61	199.6	160.2	240.2
98	63.0	51.0	76.4

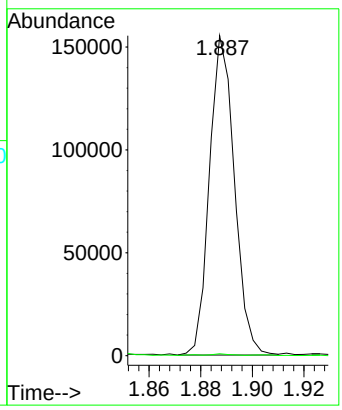




#19
Isopropyl Alcohol
Concen: 9.356 ppbv
RT: 1.887 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 45 Resp: 10412

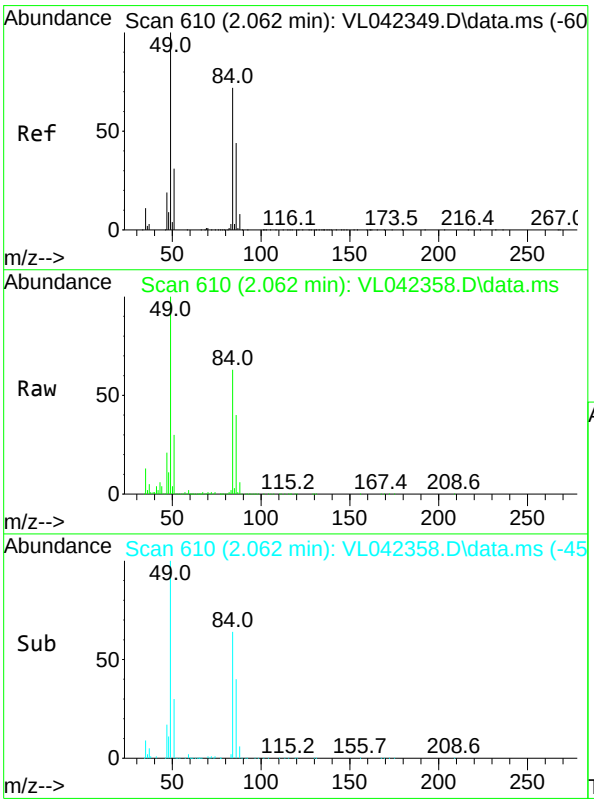
Ion	Ratio	Lower	Upper
45	100		
58	46.9	34.5	51.7



Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01

Manual Integrations
APPROVED

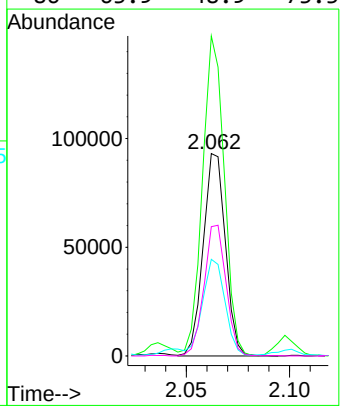
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

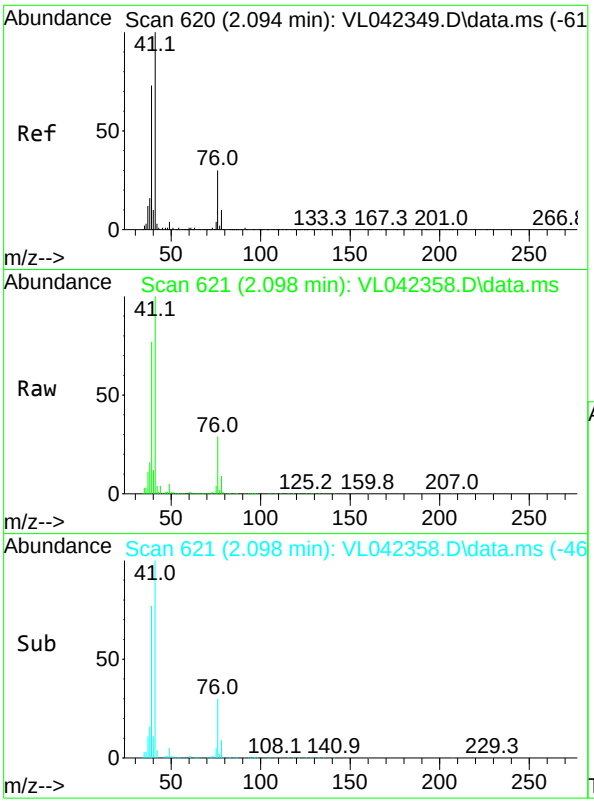


#20
Methylene Chloride
Concen: 8.865 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.000 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 84 Resp: 69548

Ion	Ratio	Lower	Upper
84	100		
49	156.3	111.6	167.4
51	45.9	35.1	52.7
86	63.9	48.9	73.3

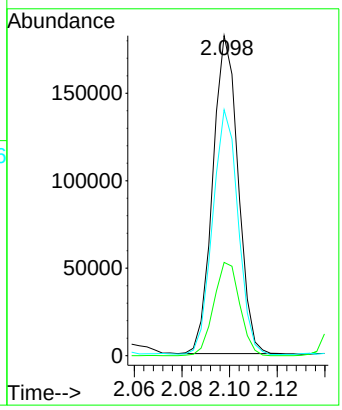




#21
Allyl Chloride
Concen: 9.704 ppbv
RT: 2.098 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 41 Resp: 13422

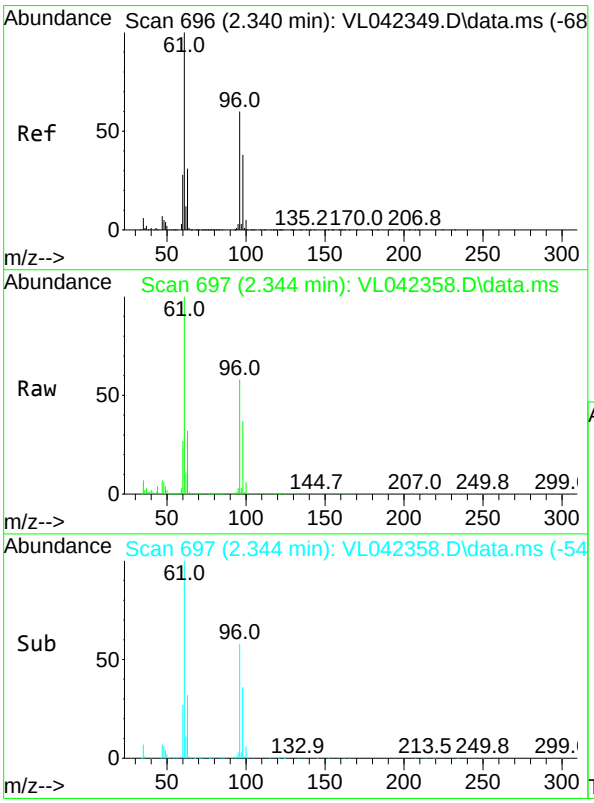
Ion	Ratio	Lower	Upper
41	100		
76	30.1	24.8	37.2
39	76.8	60.6	90.8



Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01

Manual Integrations
APPROVED

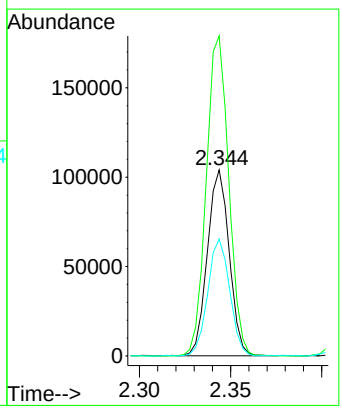
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

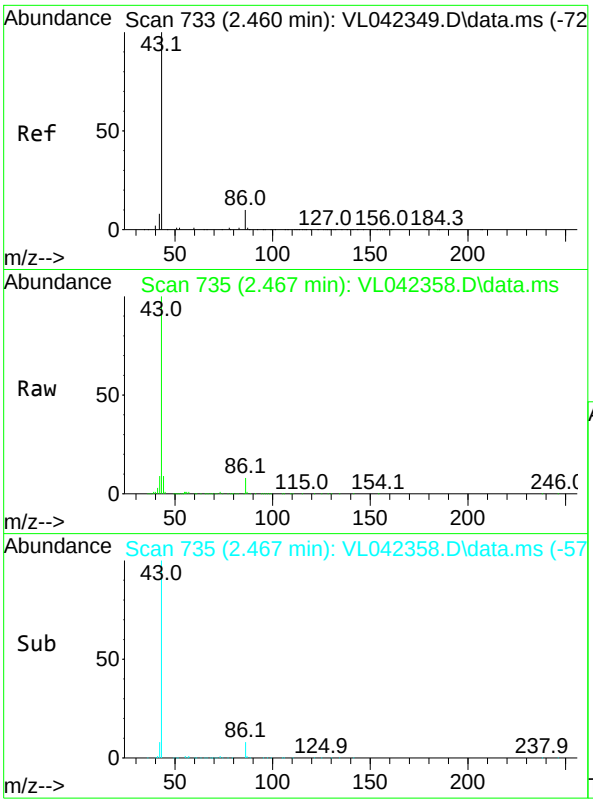


#22
trans-1,2-Dichloroethene
Concen: 9.653 ppbv
RT: 2.344 min Scan# 697
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 96 Resp: 86323

Ion	Ratio	Lower	Upper
96	100		
61	172.1	133.7	200.5
98	62.9	50.3	75.5

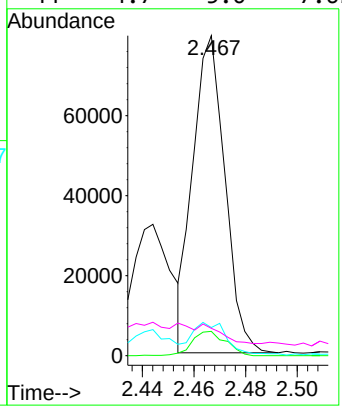




#23
Vinyl Acetate
Concen: 8.427 ppbv
RT: 2.467 min Scan# 7
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 43 Resp: 6833

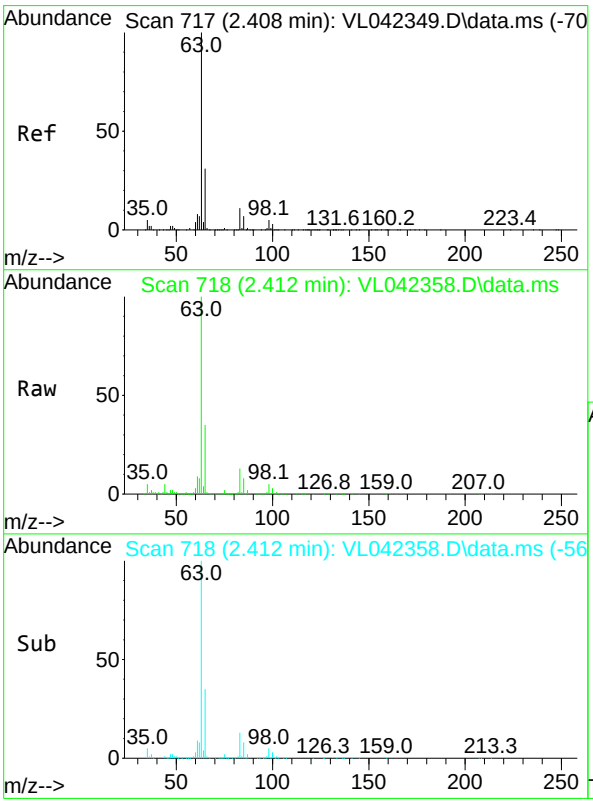
Ion	Ratio	Lower	Upper
43	100		
86	7.7	6.5	9.7
42	8.3	7.8	11.8
44	4.7	5.0	7.6#



Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01

Manual Integrations
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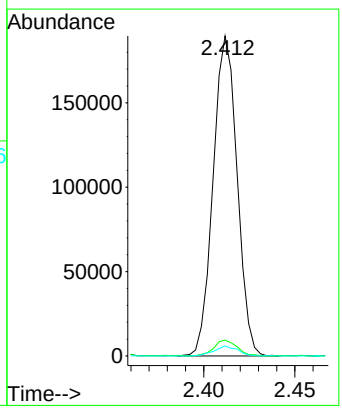
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

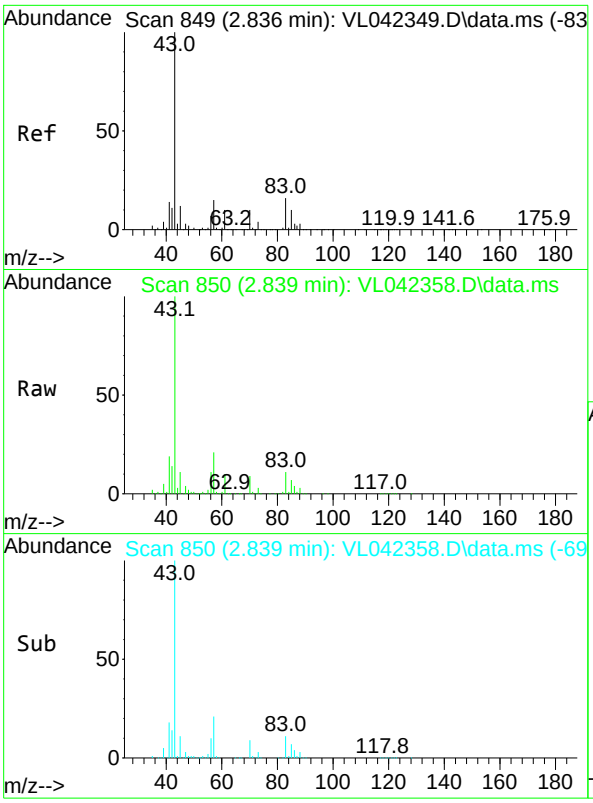


#24
1,1-Dichloroethane
Concen: 10.199 ppbv
RT: 2.412 min Scan# 718
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 63 Resp: 173238

Ion	Ratio	Lower	Upper
63	100		
98	4.9	2.3	6.8
100	3.1	1.6	4.8

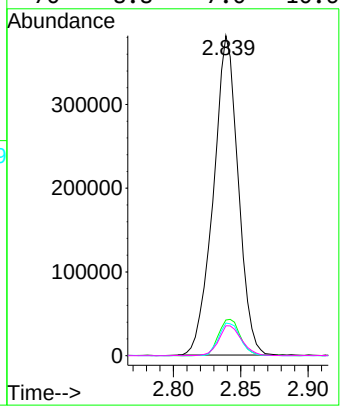




#25
Ethyl Acetate
Concen: 9.894 ppbv
RT: 2.839 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 43 Resp: 48868

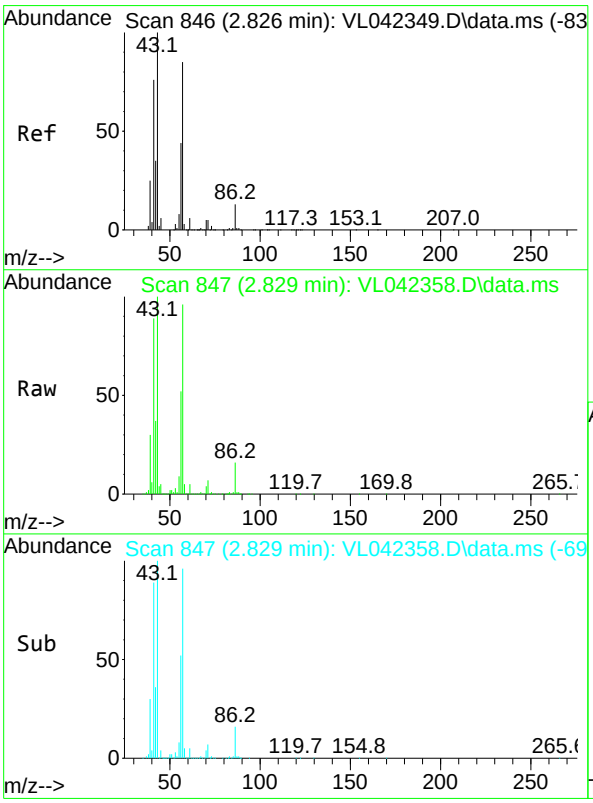
Ion	Ratio	Lower	Upper
43	100		
45	10.1	8.3	12.5
61	9.0	7.3	10.9
70	8.8	7.0	10.6



Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01

Manual Integrations
APPROVED

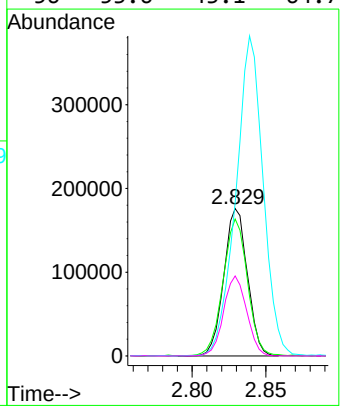
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

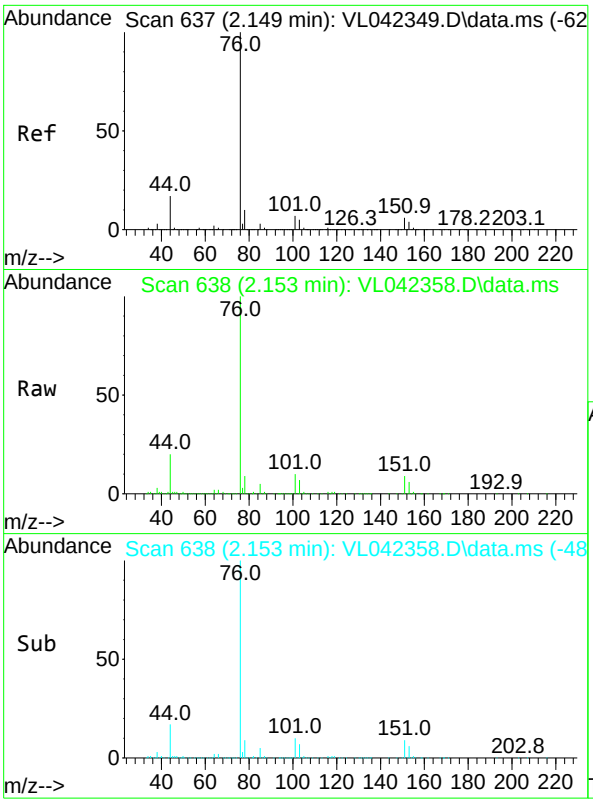


#26
Hexane
Concen: 9.761 ppbv
RT: 2.829 min Scan# 847
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 57 Resp: 195124

Ion	Ratio	Lower	Upper
57	100		
41	96.9	77.9	116.9
43	251.9	208.4	312.6
56	53.6	43.1	64.7

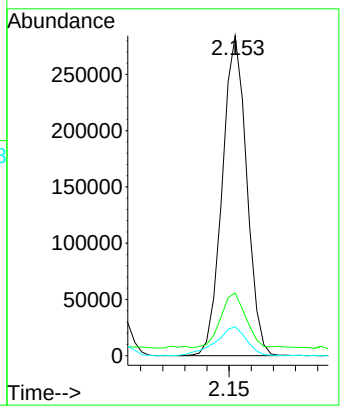




#27
Carbon Disulfide
Concen: 10.202 ppbv
RT: 2.153 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 76 Resp: 21834

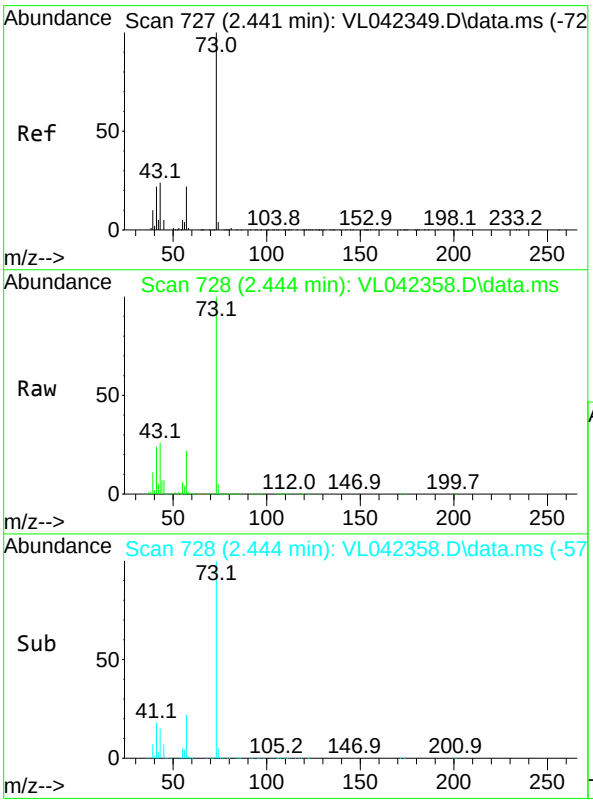
Ion	Ratio	Lower	Upper
76	100		
44	21.6	15.5	23.3
78	11.4	9.3	13.9



Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01

Manual Integrations
APPROVED

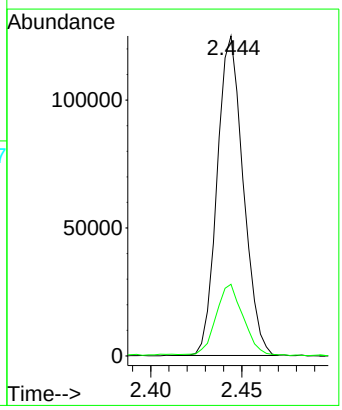
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

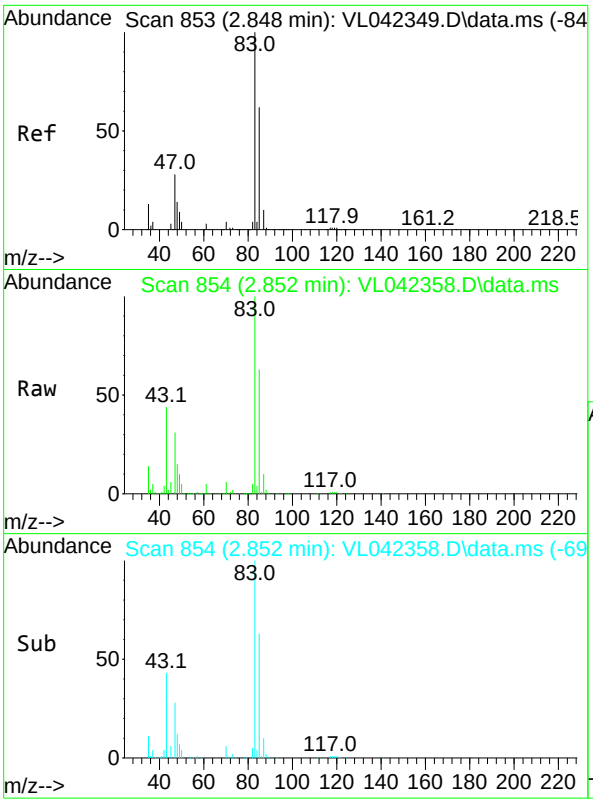


#28
Methyl tert-Butyl Ether
Concen: 9.510 ppbv
RT: 2.444 min Scan# 728
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 73 Resp: 124554

Ion	Ratio	Lower	Upper
73	100		
57	24.5	21.3	31.9





#29
Chloroform
Concen: 10.239 ppbv
RT: 2.852 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

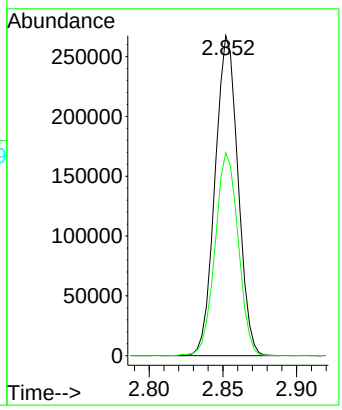
Tgt Ion: 83 Resp: 28929

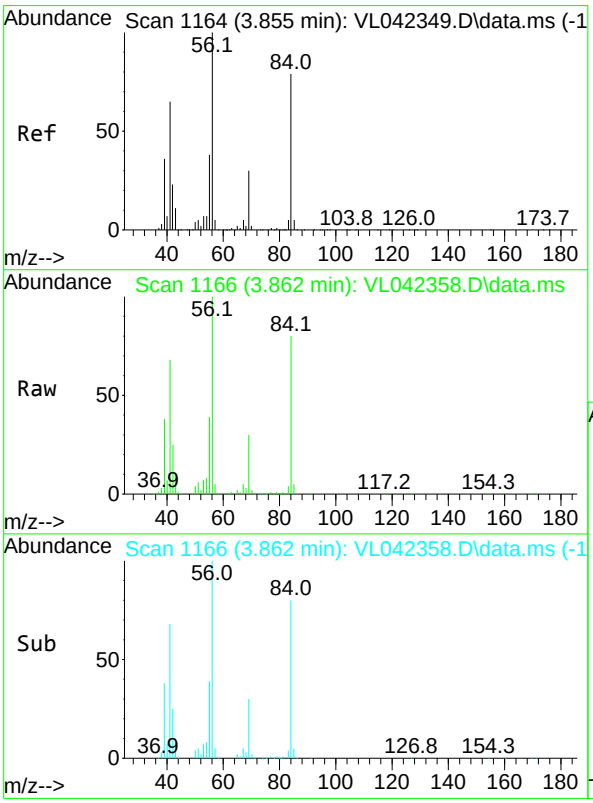
Ion	Ratio	Lower	Upper
83	100		
85	63.4	50.0	75.0

Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

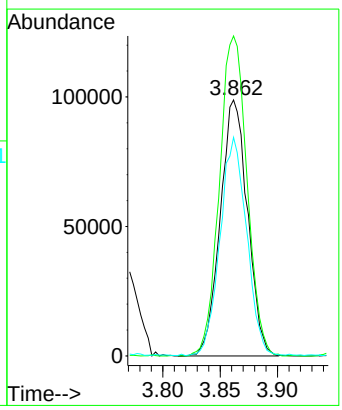


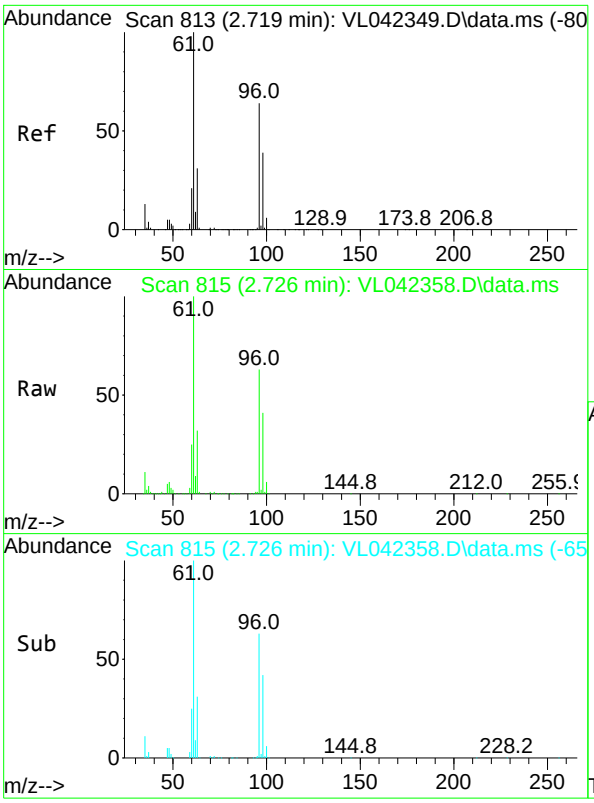


#30
Cyclohexane
Concen: 10.088 ppbv
RT: 3.862 min Scan# 1166
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 84 Resp: 163017

Ion	Ratio	Lower	Upper
84	100		
56	126.7	101.0	151.4
41	83.8	67.4	101.0

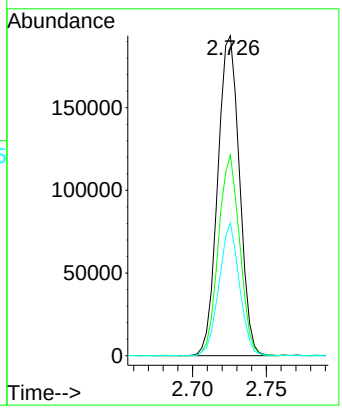




#31
cis-1,2-Dichloroethene
Concen: 10.424 ppbv
RT: 2.726 min Scan# 8
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 61 Resp: 19810

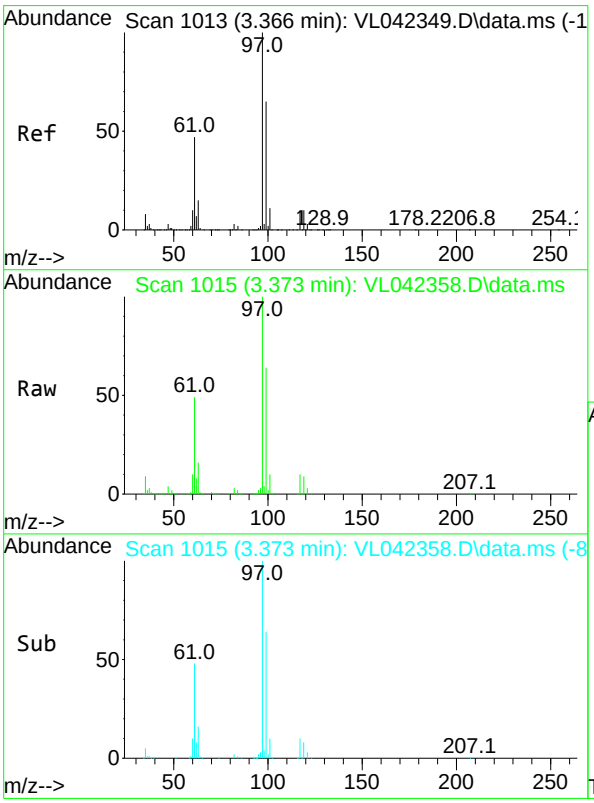
Ion	Ratio	Lower	Upper
61	100		
96	62.8	50.8	76.2
98	41.4	30.9	46.3



Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01

Manual Integrations
APPROVED

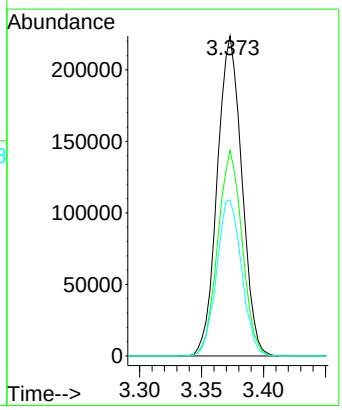
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

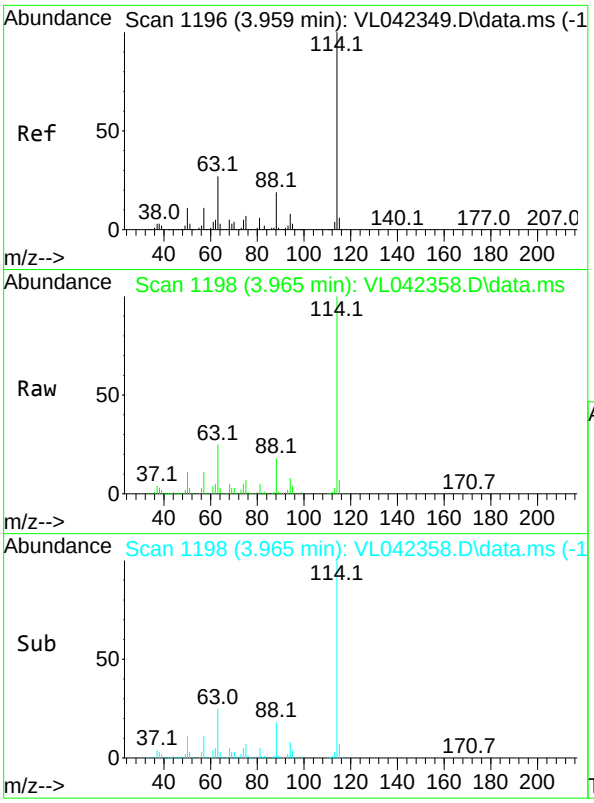


#32
1,1,1-Trichloroethane
Concen: 9.729 ppbv
RT: 3.373 min Scan# 1015
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 97 Resp: 309460

Ion	Ratio	Lower	Upper
97	100		
99	63.7	51.0	76.4
61	49.5	38.8	58.2

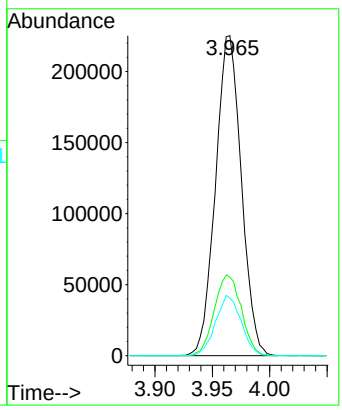




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.965 min Scan# 1
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion:114 Resp: 35220

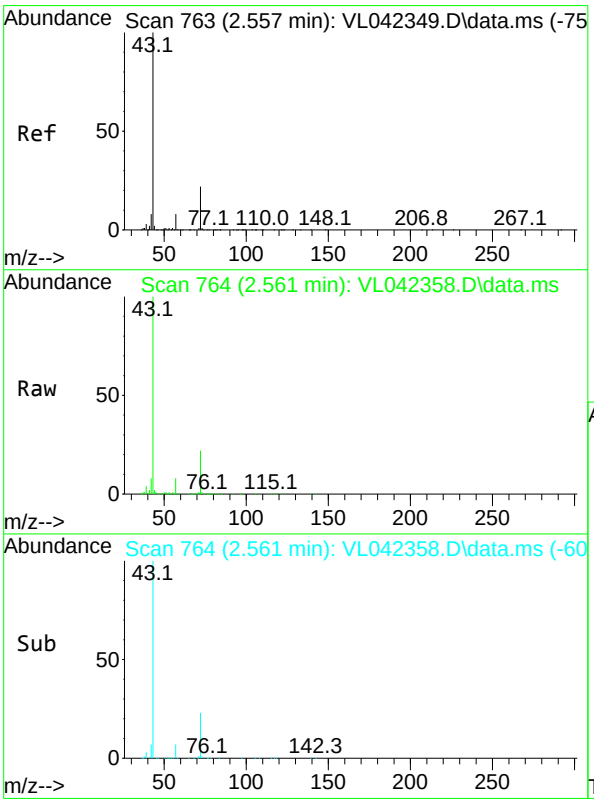
Ion	Ratio	Lower	Upper
114	100		
63	26.4	21.8	32.6
88	18.6	15.5	23.3



Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01

Manual Integrations
APPROVED

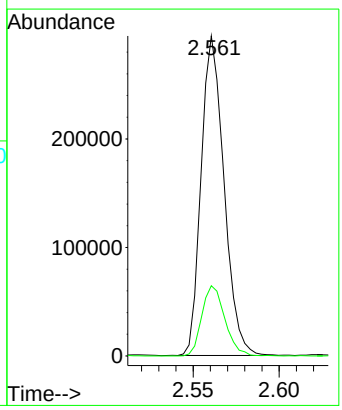
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

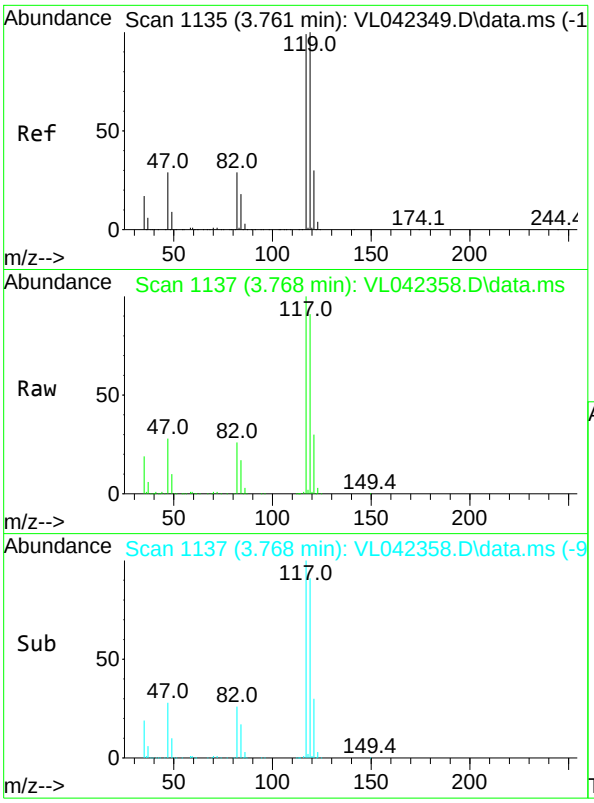


#34
2-Butanone
Concen: 9.787 ppbv
RT: 2.561 min Scan# 764
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 43 Resp: 272600

Ion	Ratio	Lower	Upper
43	100		
72	22.2	18.2	27.2

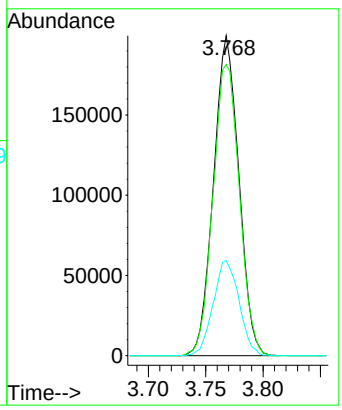




#35
Carbon Tetrachloride
Concen: 9.576 ppbv
RT: 3.768 min Scan# 1
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion:117 Resp: 30524

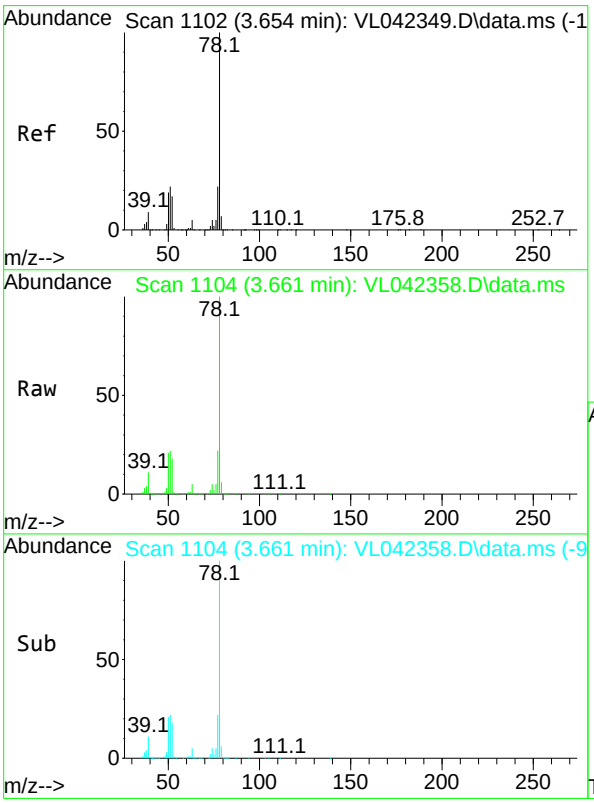
Ion	Ratio	Lower	Upper
117	100		
119	91.0	80.5	120.7
121	29.8	24.2	36.2



Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01

Manual Integrations
APPROVED

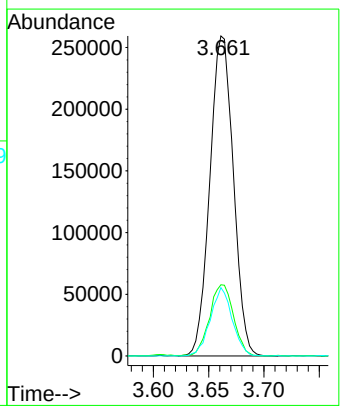
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

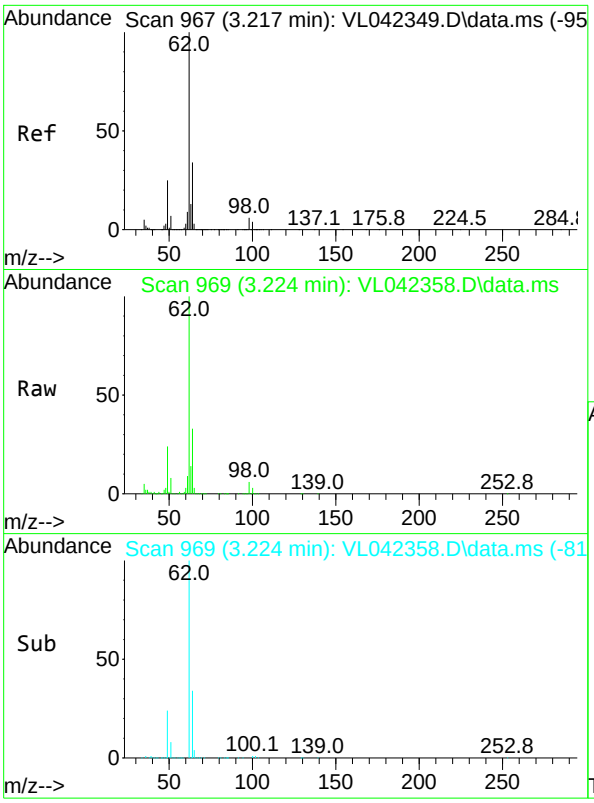


#36
Benzene
Concen: 10.088 ppbv
RT: 3.661 min Scan# 1104
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 78 Resp: 383239

Ion	Ratio	Lower	Upper
78	100		
77	22.1	17.4	26.0
50	21.3	15.5	23.3

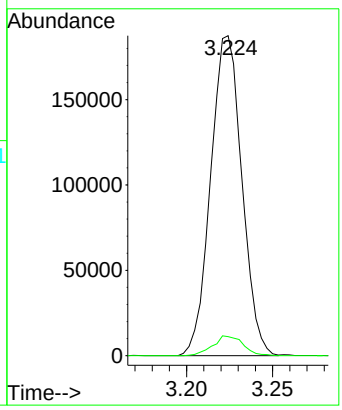




#37
1,2-Dichloroethane
Concen: 10.377 ppbv
RT: 3.224 min Scan# 9
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 62 Resp: 23661

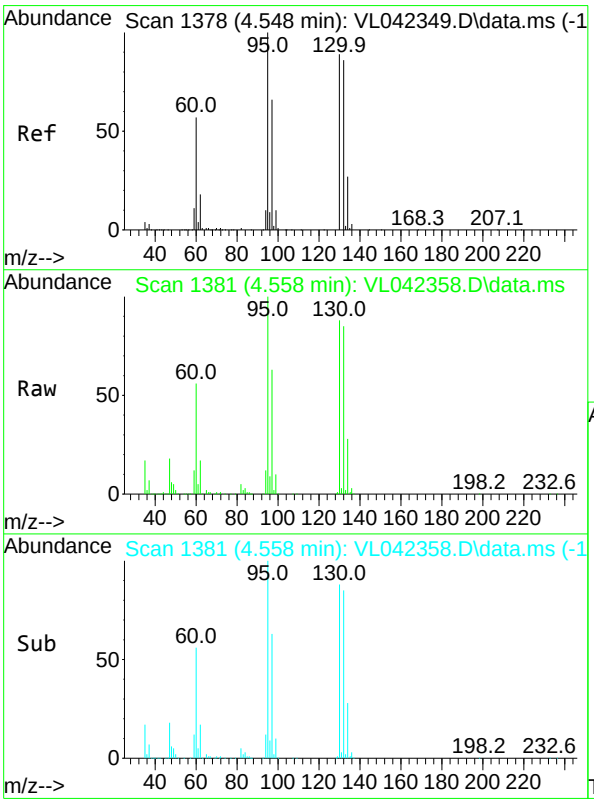
Ion	Ratio	Lower	Upper
62	100		
98	6.0	5.1	7.7



Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01

Manual Integrations
APPROVED

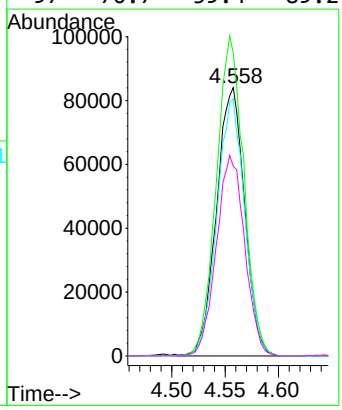
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

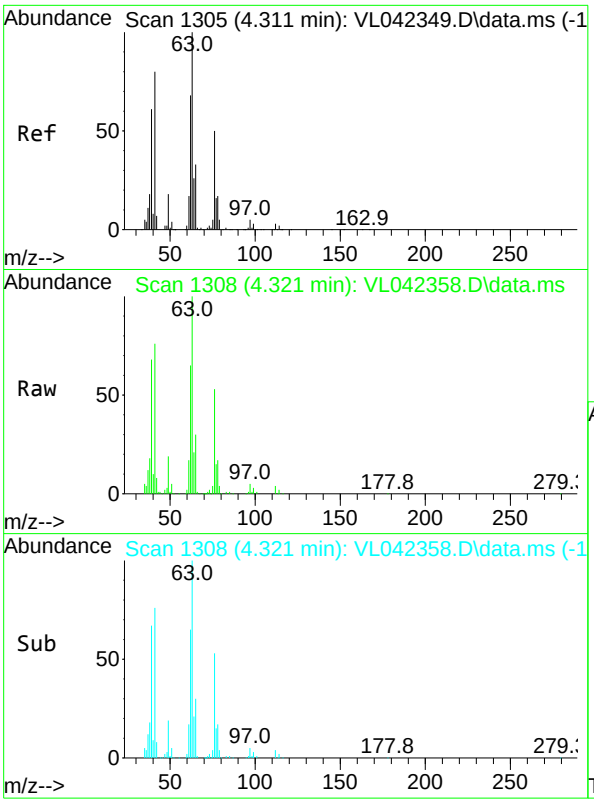


#38
Trichloroethene
Concen: 9.251 ppbv
RT: 4.558 min Scan# 1381
Delta R.T. 0.010 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion:130 Resp: 153596

Ion	Ratio	Lower	Upper
130	100		
95	113.0	89.8	134.6
132	95.8	77.7	116.5
97	70.7	59.4	89.2

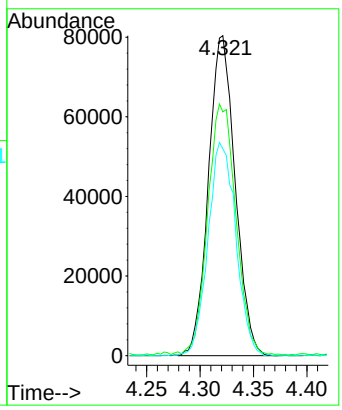




#39
1,2-Dichloropropane
Concen: 9.866 ppbv
RT: 4.321 min Scan# 1
Delta R.T. 0.010 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 63 Resp: 13966

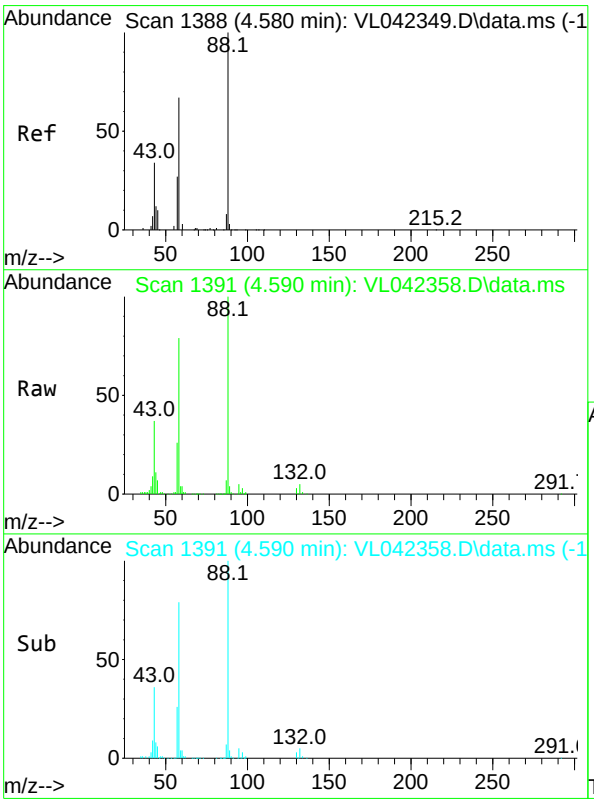
Ion	Ratio	Lower	Upper
63	100		
41	75.7	64.2	96.2
62	64.6	54.3	81.5



Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01

Manual Integrations
APPROVED

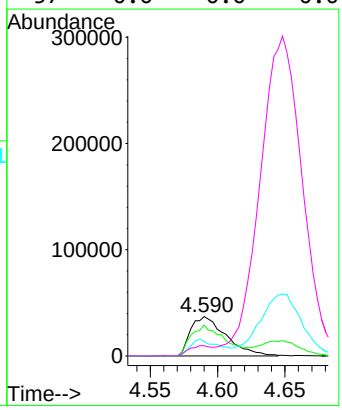
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

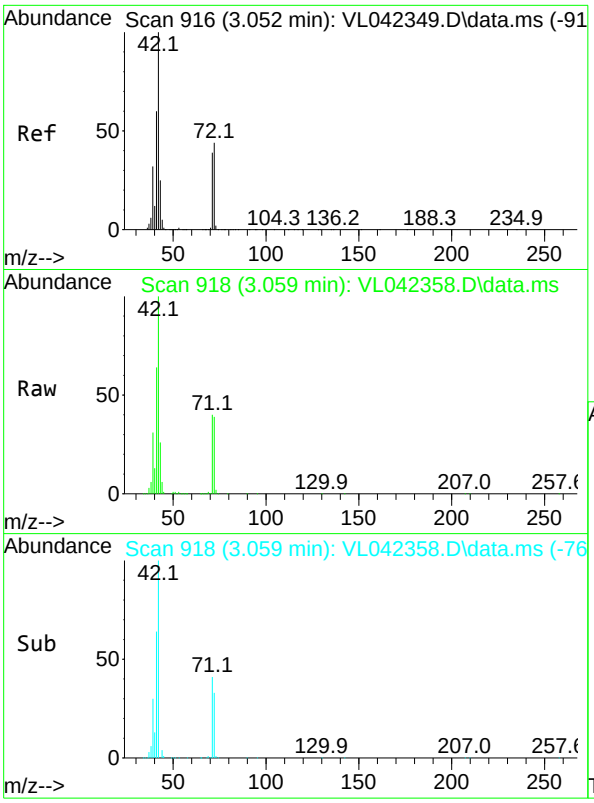


#40
1,4-Dioxane
Concen: 8.716 ppbv
RT: 4.590 min Scan# 1391
Delta R.T. 0.010 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 88 Resp: 67808

Ion	Ratio	Lower	Upper
88	100		
58	75.4	61.4	92.0
43	37.1	23.2	34.8#
57	0.0	0.0	0.0

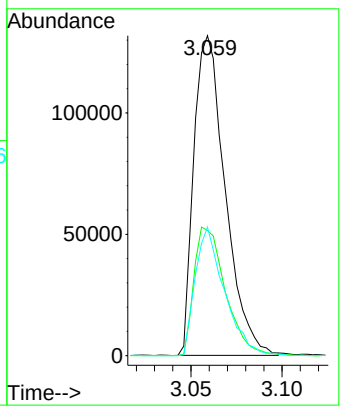




#41
Tetrahydrofuran
Concen: 9.715 ppbv
RT: 3.059 min Scan# 9
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 42 Resp: 15777

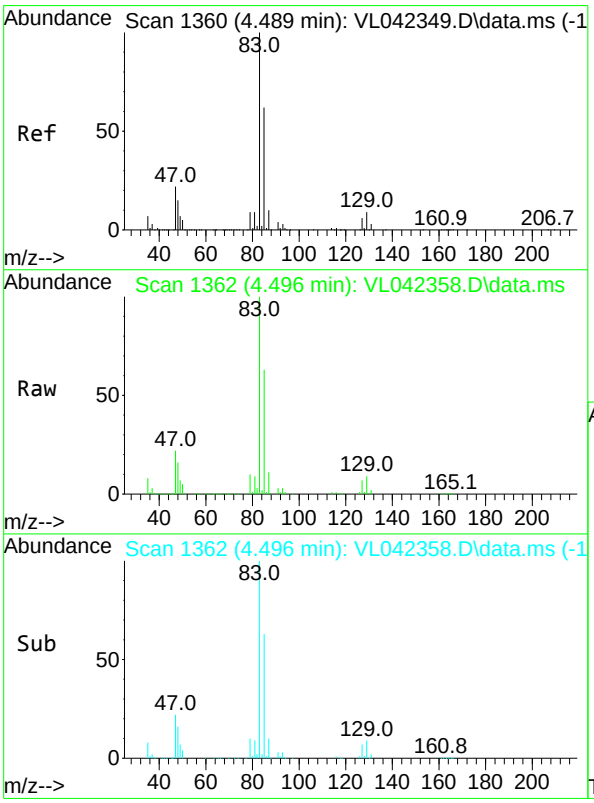
Ion	Ratio	Lower	Upper
42	100		
72	40.3	32.3	48.5
71	37.7	31.4	47.2



Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01

Manual Integrations
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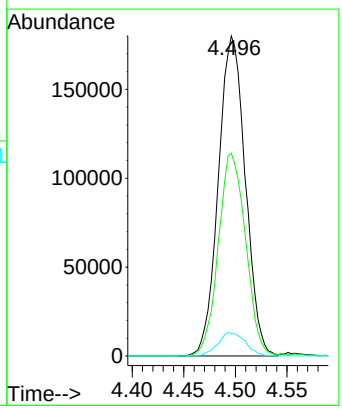
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

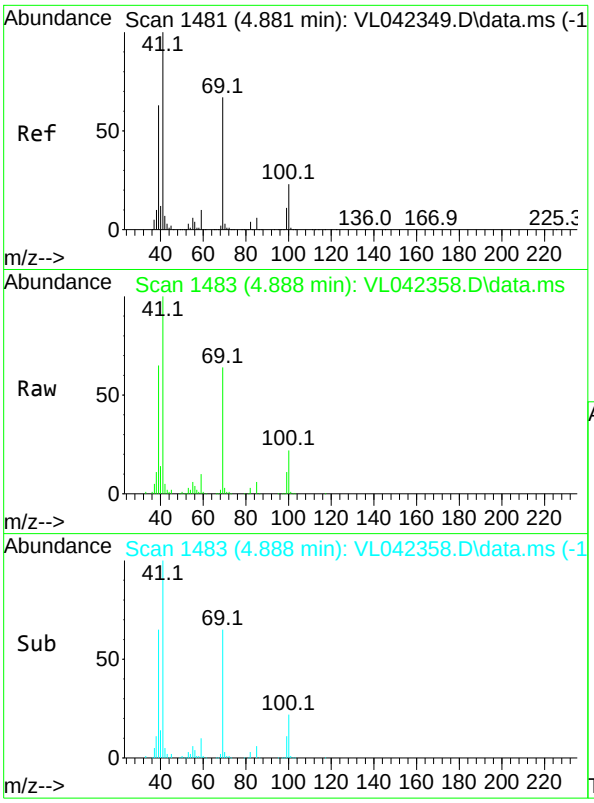


#42
Bromodichloromethane
Concen: 10.326 ppbv
RT: 4.496 min Scan# 1362
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 83 Resp: 327652

Ion	Ratio	Lower	Upper
83	100		
85	63.3	49.7	74.5
127	7.0	5.1	7.7

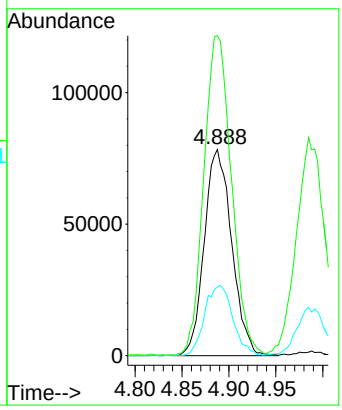




#43
Methyl Methacrylate
Concen: 9.304 ppbv
RT: 4.888 min Scan# 14
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 69 Resp: 15929

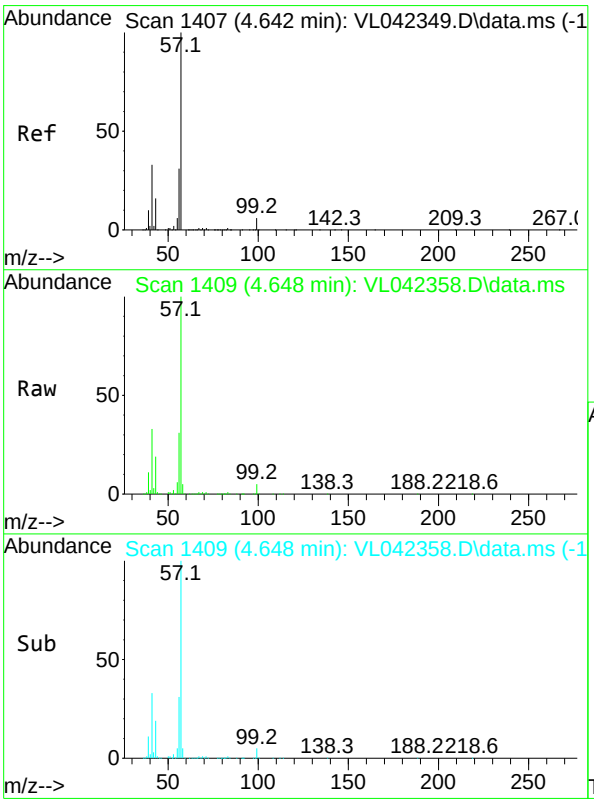
Ion	Ratio	Lower	Upper
69	100		
41	155.9	118.6	177.8
100	35.1	28.2	42.2



Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01

Manual Integrations
APPROVED

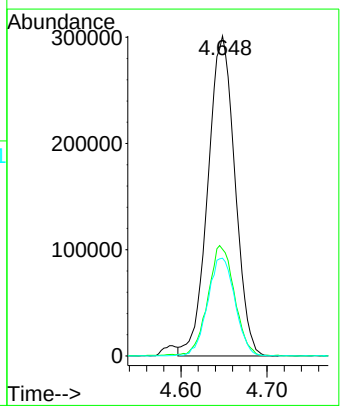
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

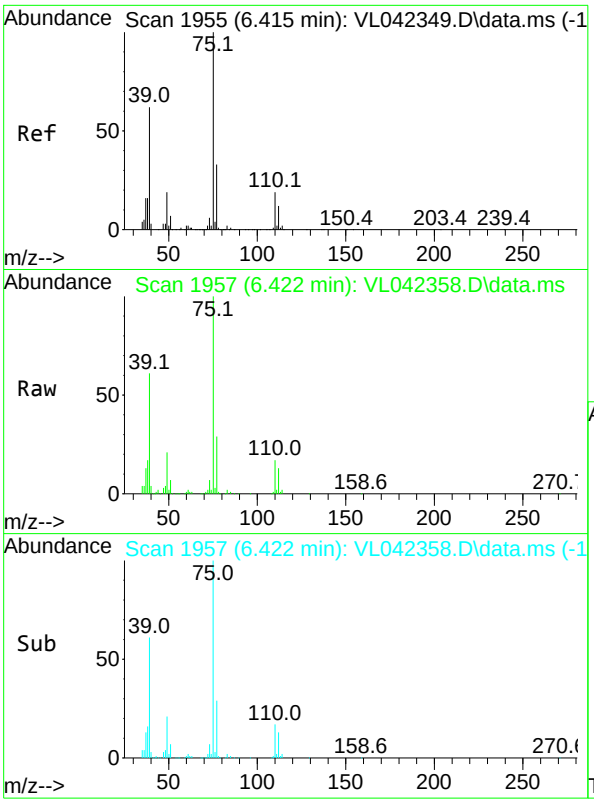


#44
2,2,4-Trimethylpentane
Concen: 10.019 ppbv
RT: 4.648 min Scan# 1409
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 57 Resp: 657377

Ion	Ratio	Lower	Upper
57	100		
41	34.2	27.2	40.8
56	31.1	25.7	38.5

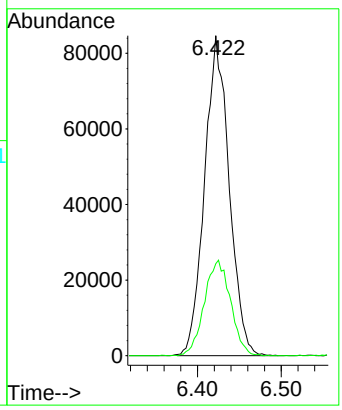




#45
t-1,3-Dichloropropene
Concen: 9.864 ppbv
RT: 6.422 min Scan# 1
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 75 Resp: 17251

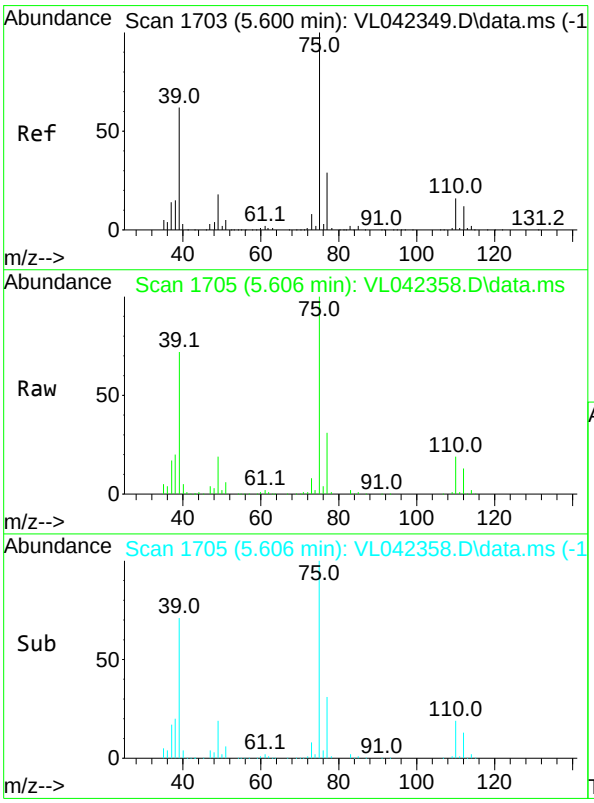
Ion	Ratio	Lower	Upper
75	100		
77	28.7	27.0	40.6



Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01

Manual Integrations
APPROVED

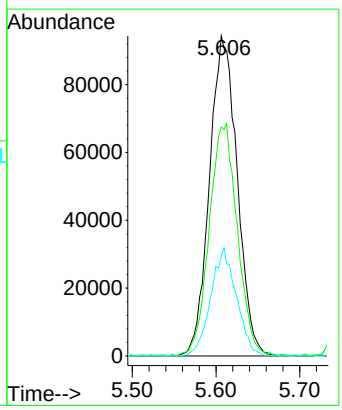
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

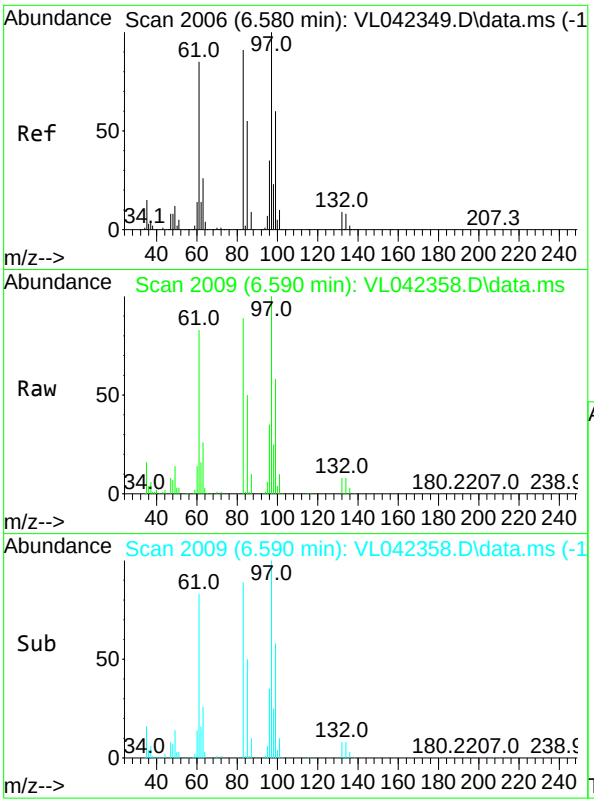


#46
cis-1,3-Dichloropropene
Concen: 10.133 ppbv
RT: 5.606 min Scan# 1705
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 75 Resp: 216901

Ion	Ratio	Lower	Upper
75	100		
39	71.3	50.0	75.0
77	31.1	23.0	34.6

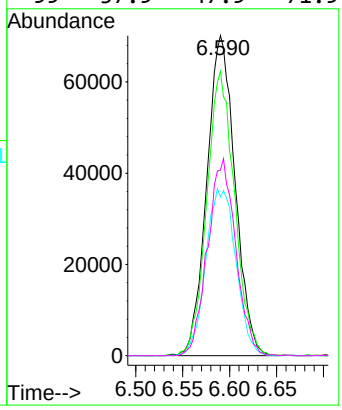




#47
1,1,2-Trichloroethane
Concen: 10.161 ppbv
RT: 6.590 min Scan# 2
Delta R.T. 0.010 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 97 Resp: 14654

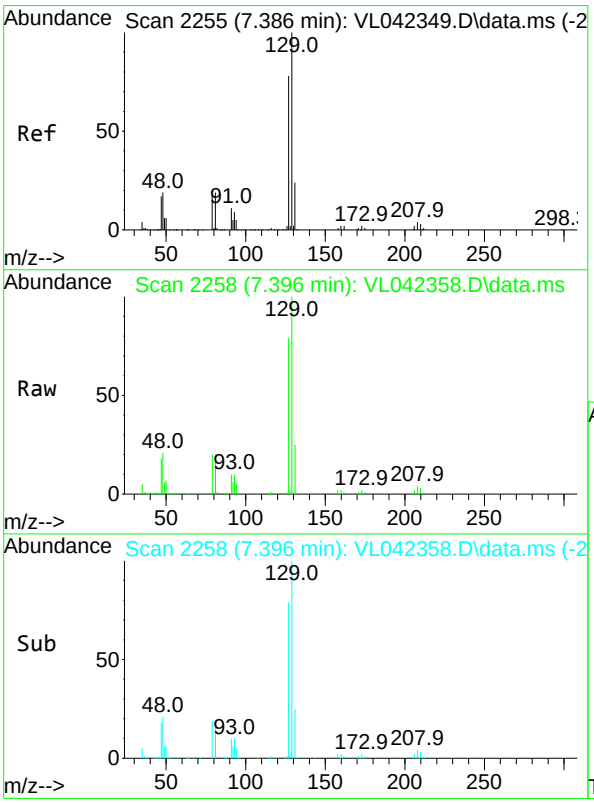
Ion	Ratio	Lower	Upper
97	100		
83	88.7	72.8	109.2
85	49.6	44.2	66.4
99	57.9	47.9	71.9



Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01

Manual Integrations
APPROVED

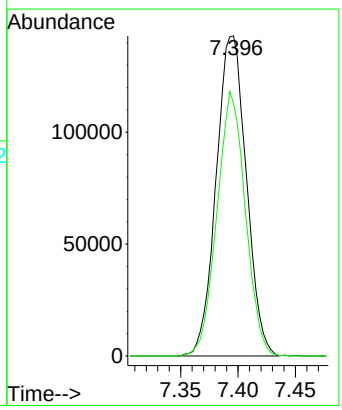
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

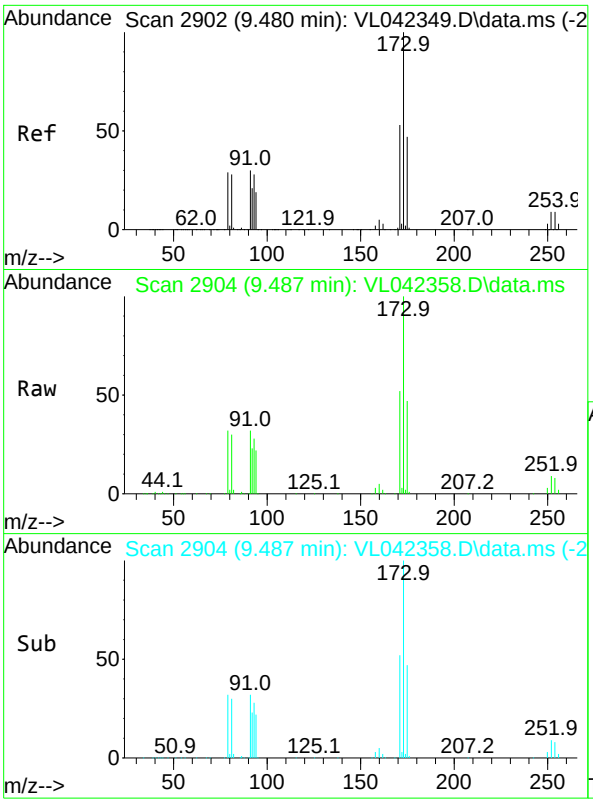


#48
Dibromochloromethane
Concen: 10.261 ppbv
RT: 7.396 min Scan# 2258
Delta R.T. 0.010 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion:129 Resp: 261470

Ion	Ratio	Lower	Upper
129	100		
127	77.9	39.1	117.3

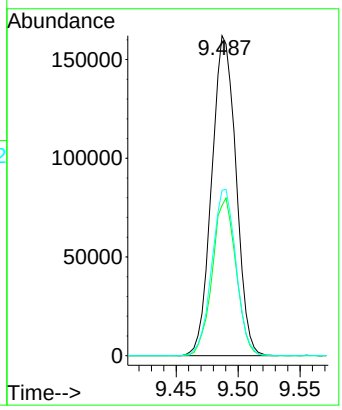




#49
Bromoform
Concen: 9.936 ppbv
RT: 9.487 min Scan# 2
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion:173 Resp: 22137

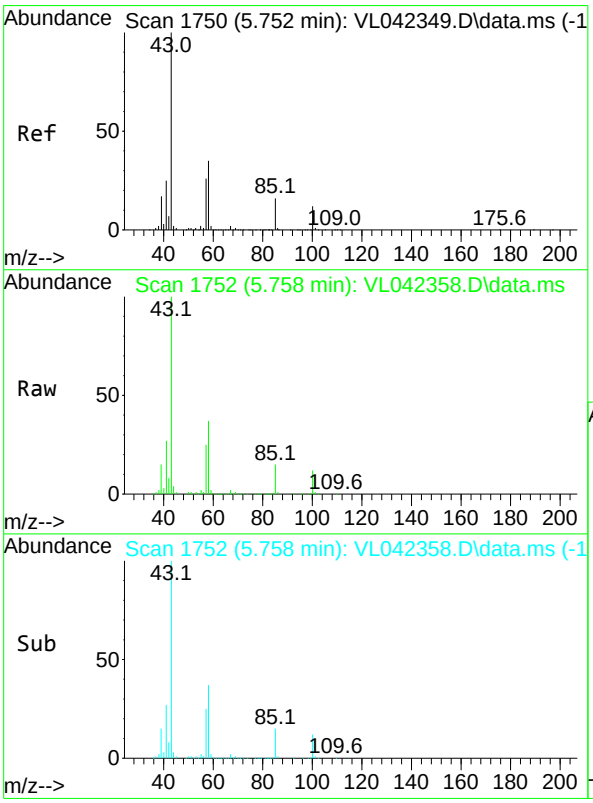
Ion	Ratio	Lower	Upper
173	100		
175	48.0	38.2	57.2
171	51.7	40.9	61.3



Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01

Manual Integrations
APPROVED

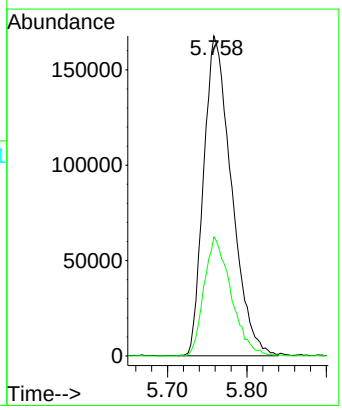
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

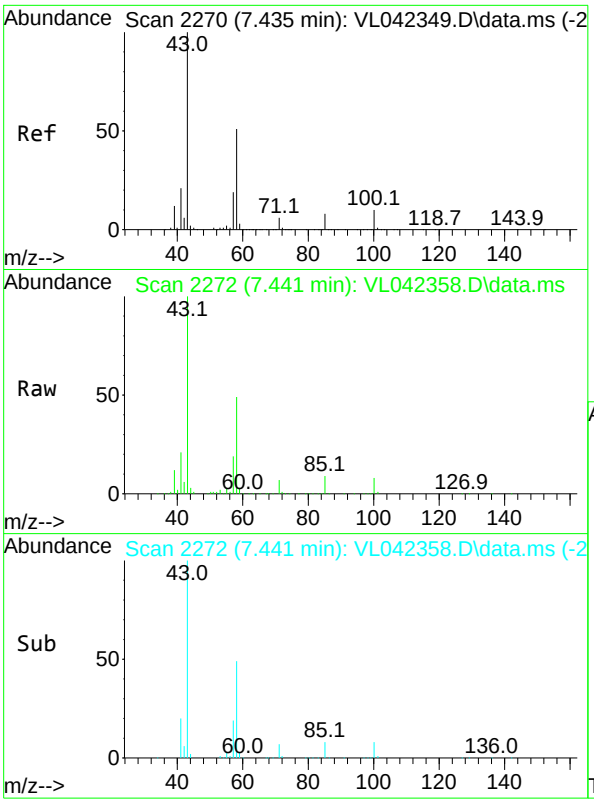


#50
4-Methyl-2-Pentanone
Concen: 8.810 ppbv
RT: 5.758 min Scan# 1752
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 43 Resp: 407804

Ion	Ratio	Lower	Upper
43	100		
58	36.2	28.6	43.0

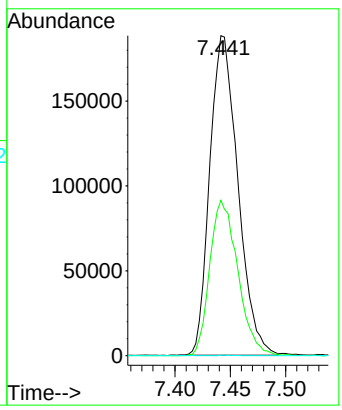




#51
2-Hexanone
Concen: 8.013 ppbv
RT: 7.441 min Scan# 2
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 43 Resp: 33264

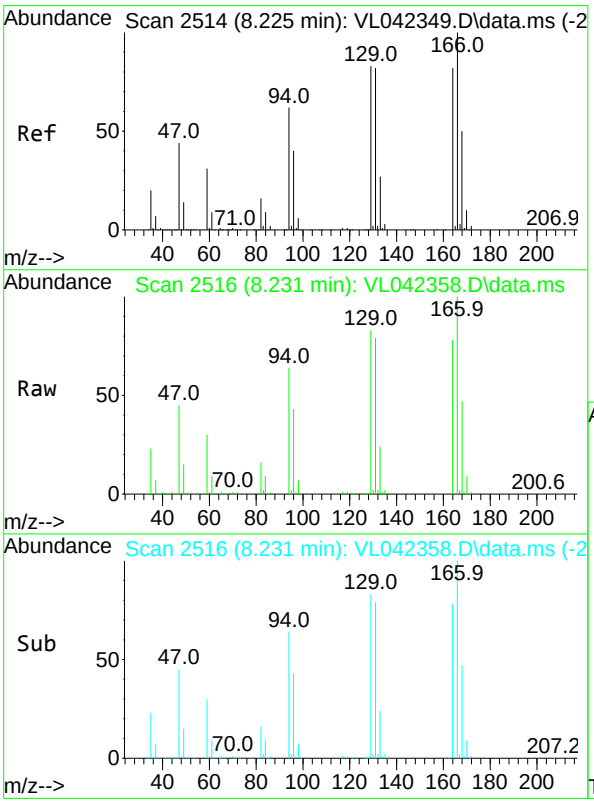
Ion	Ratio	Lower	Upper
43	100		
58	48.6	40.2	60.4
98	0.1	0.1	0.1



Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01

Manual Integrations
APPROVED

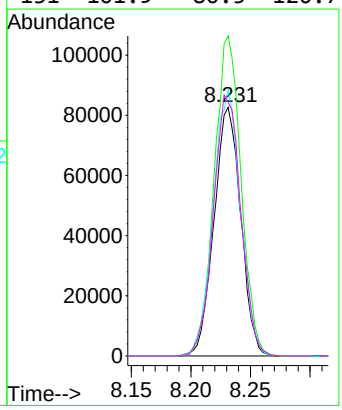
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

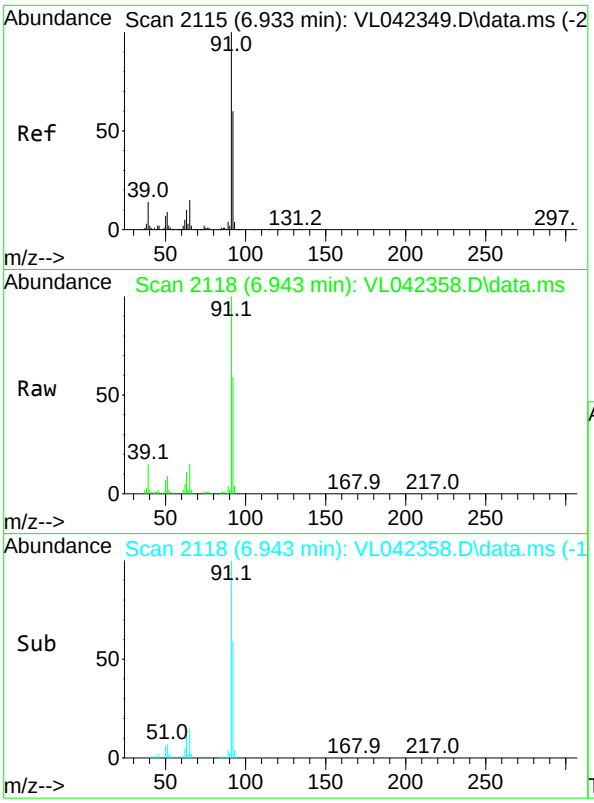


#52
Tetrachloroethene
Concen: 8.763 ppbv
RT: 8.231 min Scan# 2516
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion:164 Resp: 128670

Ion	Ratio	Lower	Upper
164	100		
166	128.7	98.2	147.2
129	106.9	81.8	122.8
131	101.9	80.5	120.7

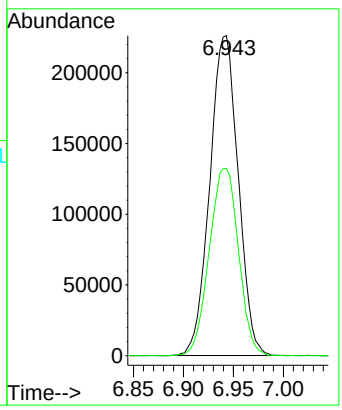




#53
Toluene
Concen: 9.818 ppbv
RT: 6.943 min Scan# 2
Delta R.T. 0.010 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 91 Resp: 44758

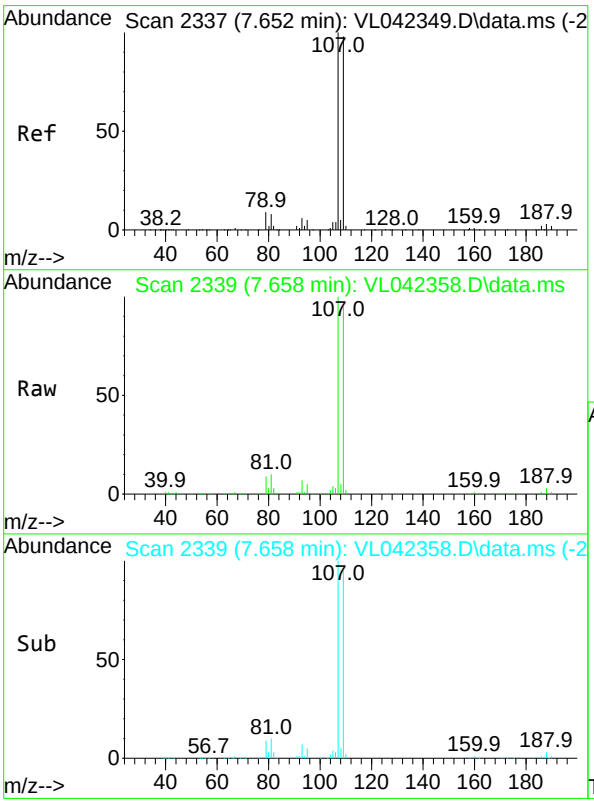
Ion	Ratio	Lower	Upper
91	100		
92	60.3	48.2	72.4



Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01

Manual Integrations
APPROVED

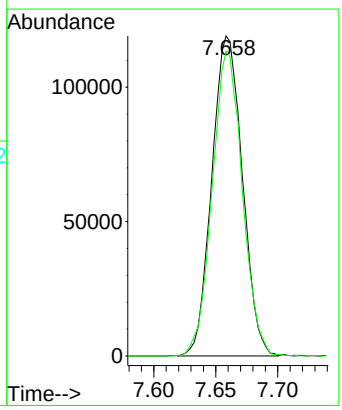
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

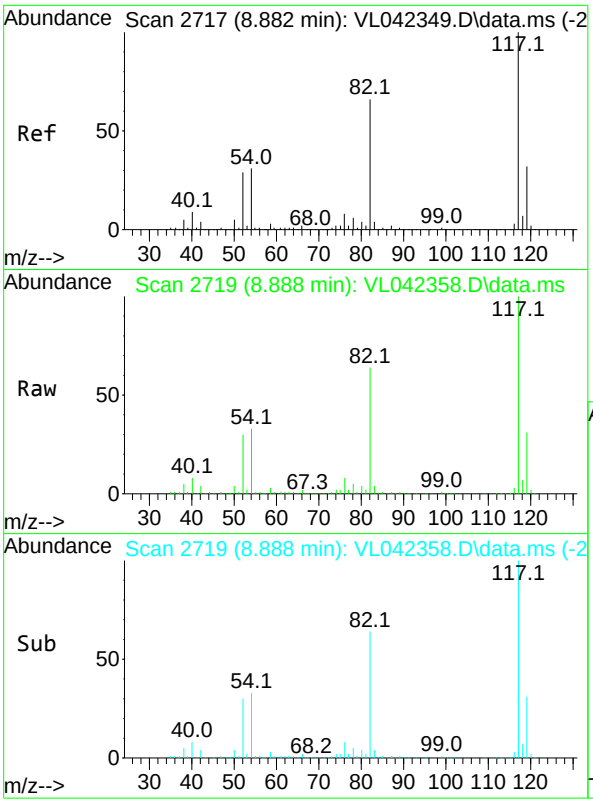


#54
1,2-Dibromoethane
Concen: 9.899 ppbv
RT: 7.658 min Scan# 2339
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion:107 Resp: 204328

Ion	Ratio	Lower	Upper
107	100		
109	95.1	78.2	117.4

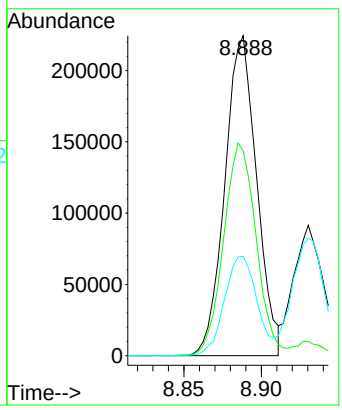




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.888 min Scan# 2
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion:117 Resp: 32152

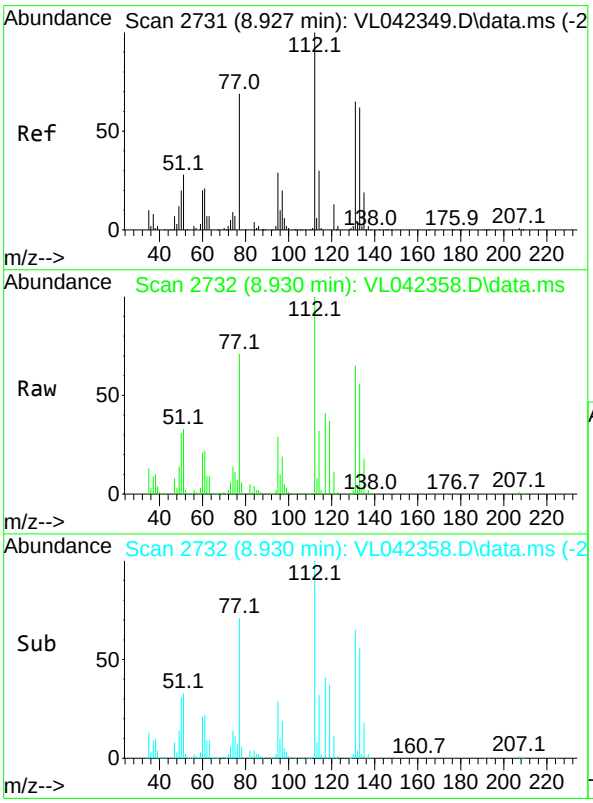
Ion	Ratio	Lower	Upper
117	100		
82	71.8	57.8	86.6
119	32.5	25.2	37.8



Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01

Manual Integrations
APPROVED

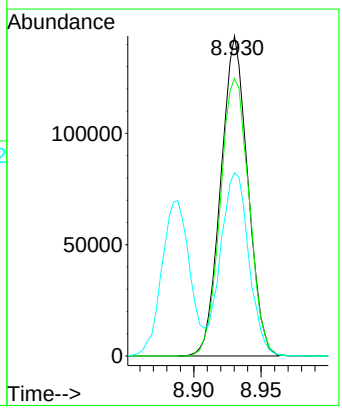
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

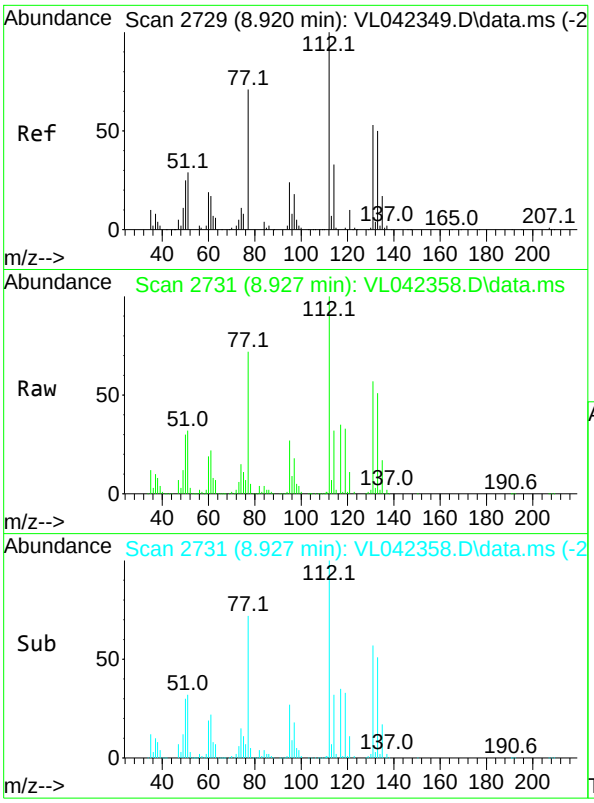


#56
1,1,1,2-Tetrachloroethane
Concen: 10.275 ppbv
RT: 8.930 min Scan# 2732
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion:131 Resp: 199945

Ion	Ratio	Lower	Upper
131	100		
133	92.5	78.3	117.5
119	60.2	48.7	73.1

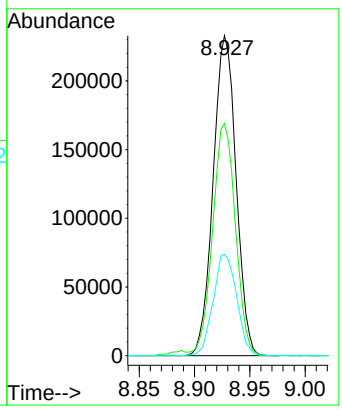




#57
Chlorobenzene
Concen: 10.022 ppbv
RT: 8.927 min Scan# 2
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion:112 Resp: 33514

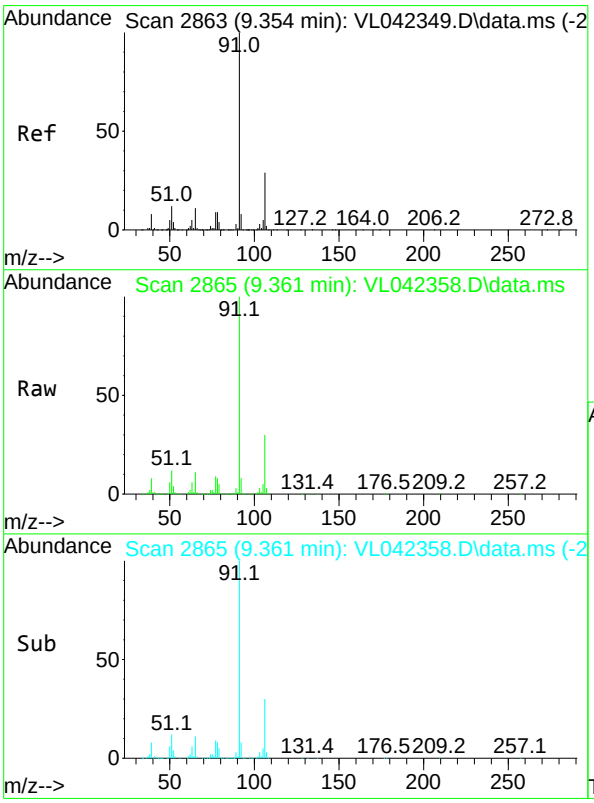
Ion	Ratio	Lower	Upper
112	100		
77	72.4	57.8	86.6
114	31.7	29.3	35.9



Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01

Manual Integrations
APPROVED

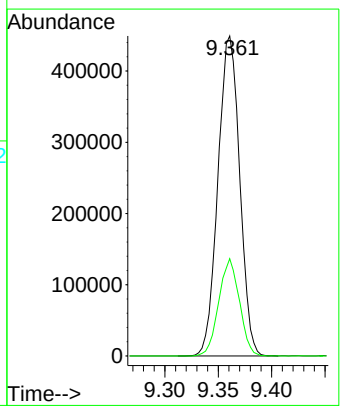
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

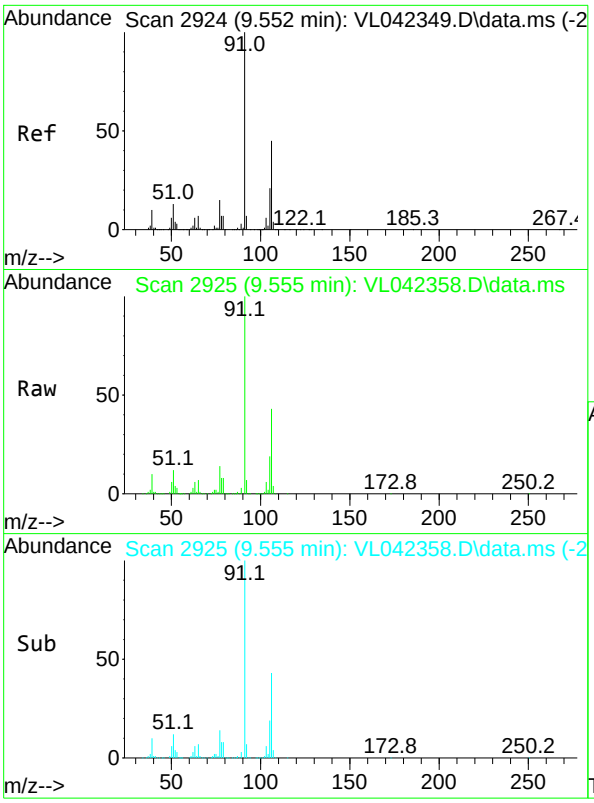


#58
Ethyl Benzene
Concen: 9.975 ppbv
RT: 9.361 min Scan# 2865
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 91 Resp: 635446

Ion	Ratio	Lower	Upper
91	100		
106	30.4	23.0	34.4





#59
m/p-Xylene
Concen: 19.806 ppbv m
RT: 9.555 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

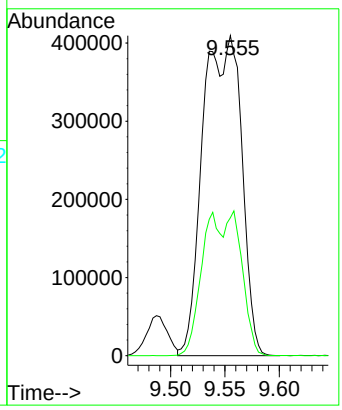
Tgt Ion: 91 Resp: 101640

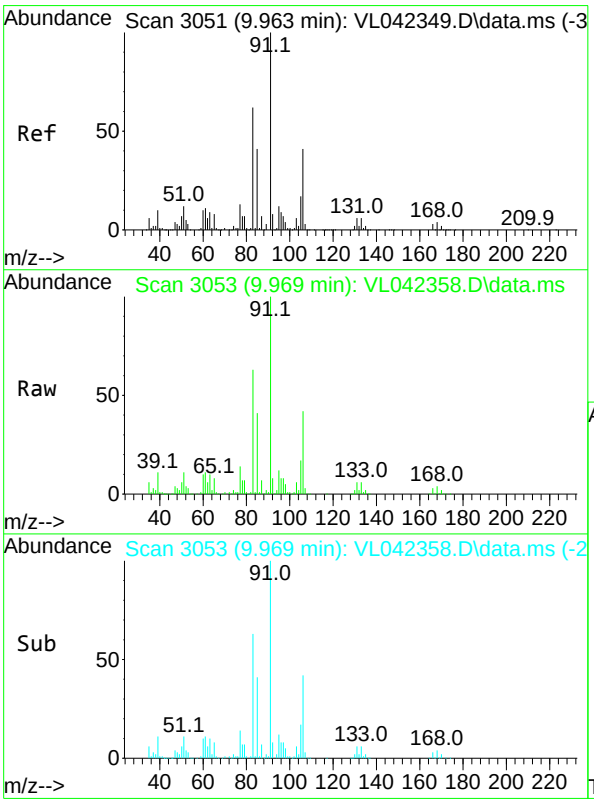
Ion	Ratio	Lower	Upper
91	100		
106	44.3	35.4	53.2

Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

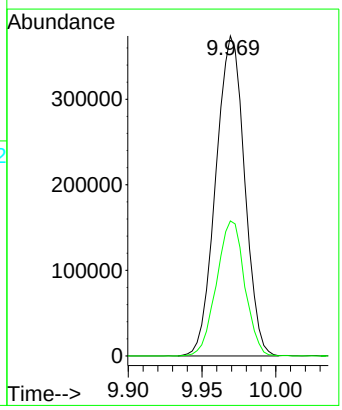


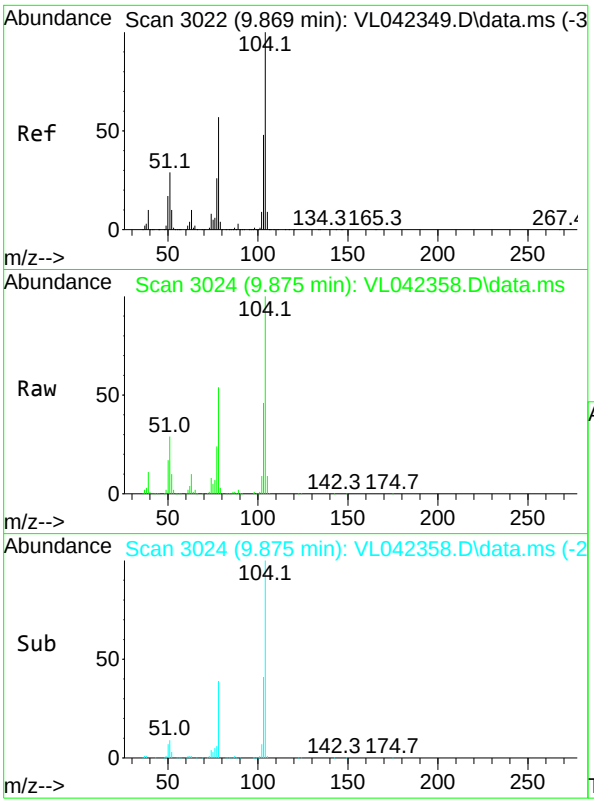


#60
o-Xylene
Concen: 9.802 ppbv
RT: 9.969 min Scan# 3053
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 91 Resp: 506535

Ion	Ratio	Lower	Upper
91	100		
106	41.4	21.1	63.4

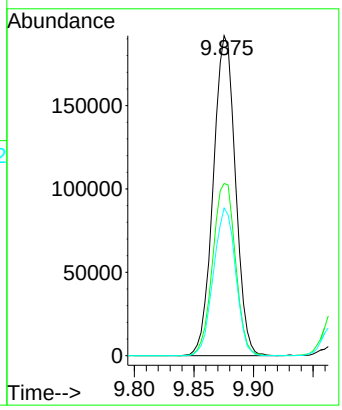




#61
Styrene
Concen: 10.055 ppbv
RT: 9.875 min Scan# 3
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion:104 Resp: 24802

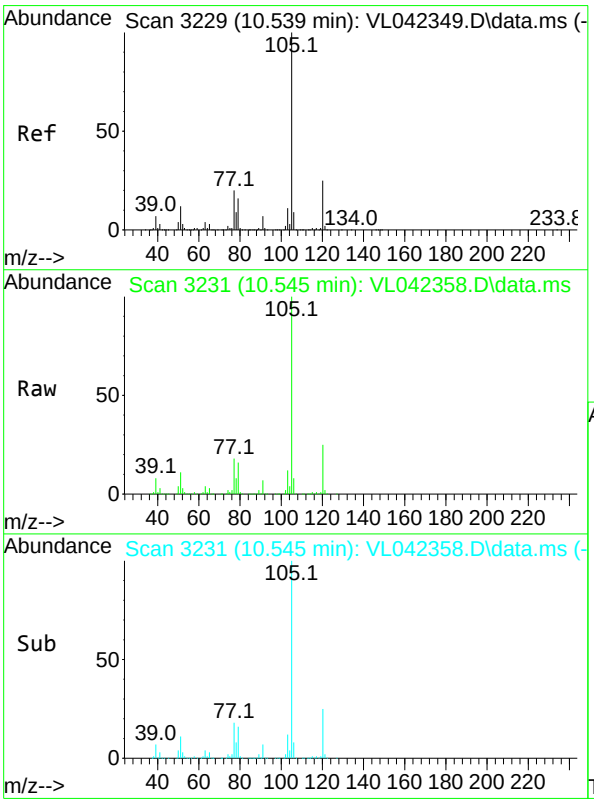
Ion	Ratio	Lower	Upper
104	100		
78	55.3	44.6	66.8
103	46.2	37.4	56.0



Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01

Manual Integrations
APPROVED

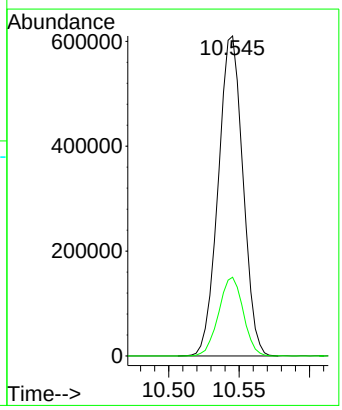
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

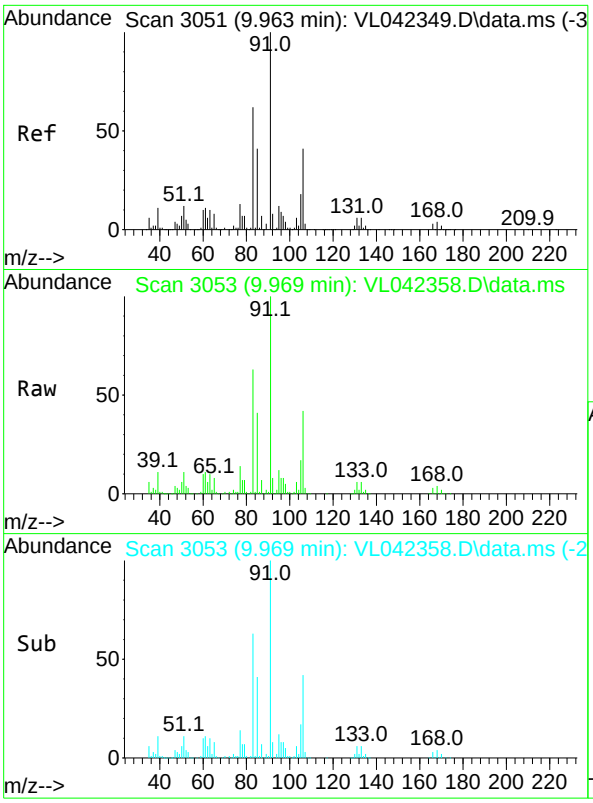


#62
Isopropylbenzene
Concen: 9.827 ppbv
RT: 10.545 min Scan# 3231
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion:105 Resp: 745571

Ion	Ratio	Lower	Upper
105	100		
120	24.5	19.8	29.8

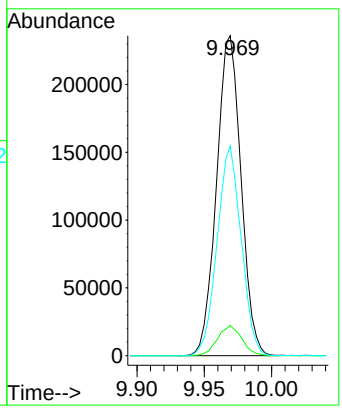




#63
1,1,2,2-Tetrachloroethane
Concen: 8.916 ppbv
RT: 9.969 min Scan# 3
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 83 Resp: 29858

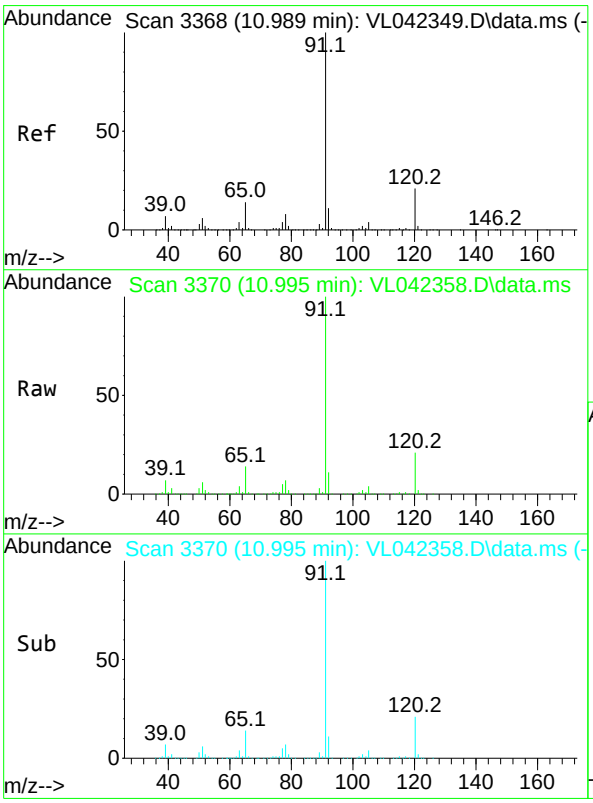
Ion	Ratio	Lower	Upper
83	100		
131	9.4	4.5	13.7
85	64.5	32.4	97.0



Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01

Manual Integrations
APPROVED

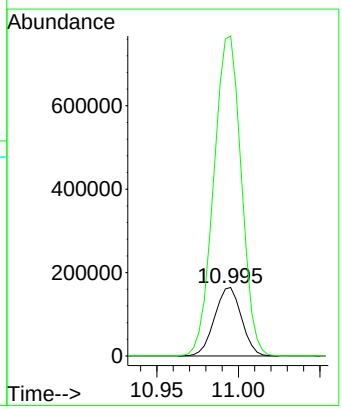
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

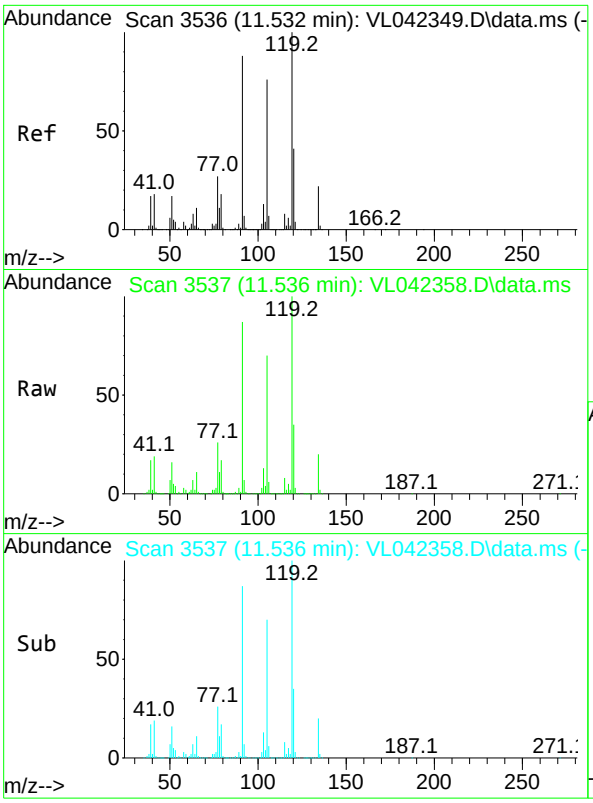


#64
n-propylbenzene
Concen: 9.875 ppbv
RT: 10.995 min Scan# 3370
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion:120 Resp: 188310

Ion	Ratio	Lower	Upper
120	100		
91	478.2	392.4	588.6

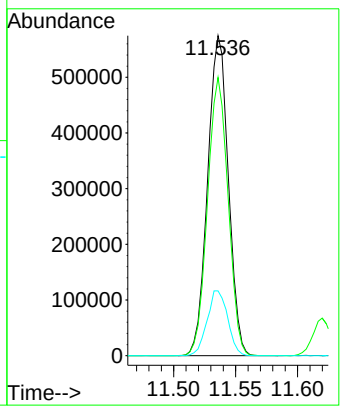




#65
tert-Butylbenzene
Concen: 9.589 ppbv
RT: 11.536 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion:119 Resp: 66868

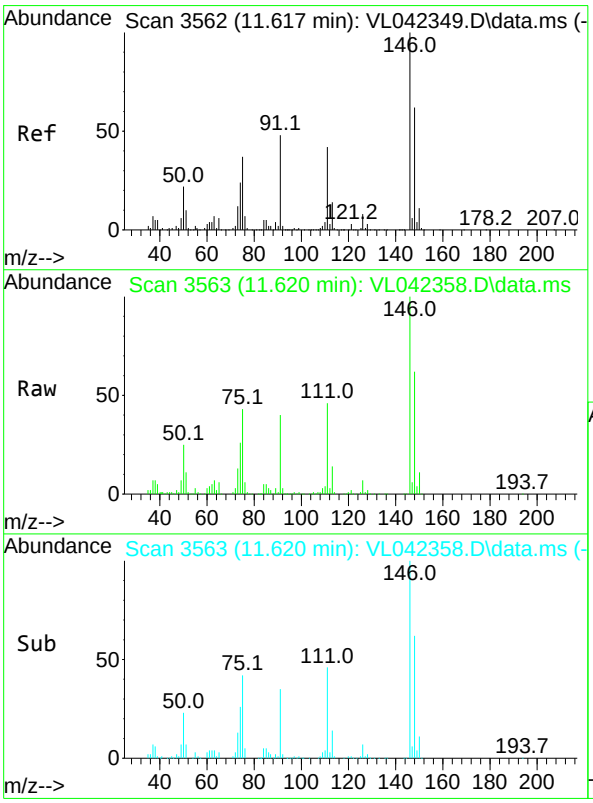
Ion	Ratio	Lower	Upper
119	100		
91	86.7	74.6	111.8
134	20.2	18.8	28.2



Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01

Manual Integrations
APPROVED

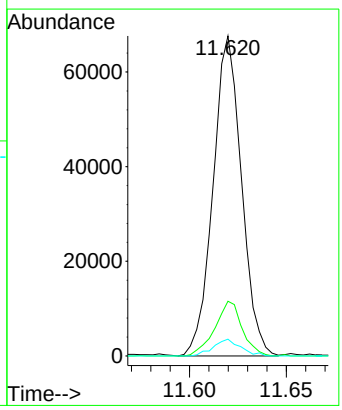
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

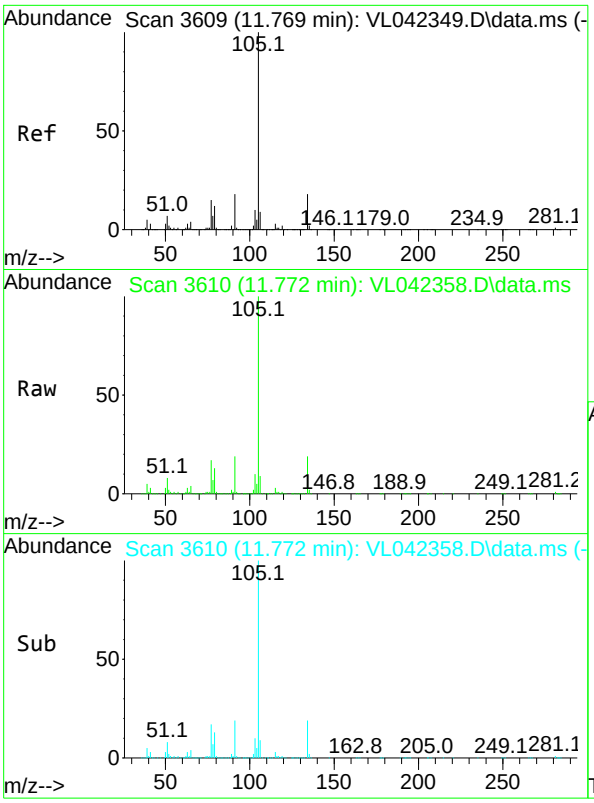


#66
Benzyl Chloride
Concen: 9.012 ppbv
RT: 11.620 min Scan# 3563
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 91 Resp: 69058

Ion	Ratio	Lower	Upper
91	100		
126	16.5	11.8	17.6
128	5.0	4.5	6.7

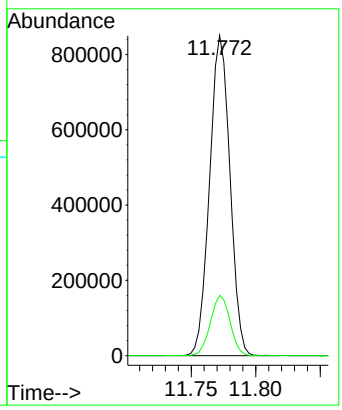




#67
sec-Butylbenzene
Concen: 9.592 ppbv
RT: 11.772 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion:105 Resp: 93042

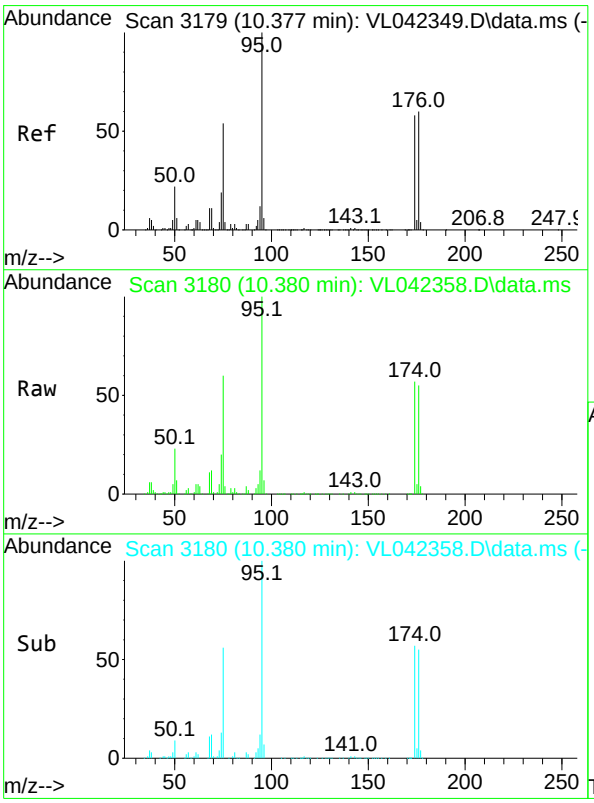
Ion	Ratio	Lower	Upper
105	100		
134	18.3	14.6	21.8



Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01

Manual Integrations
APPROVED

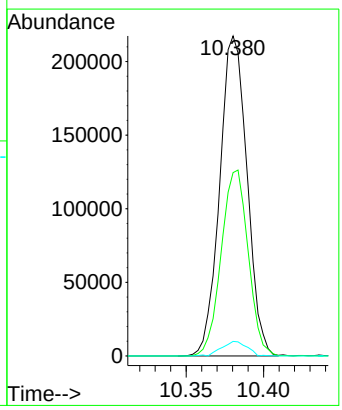
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

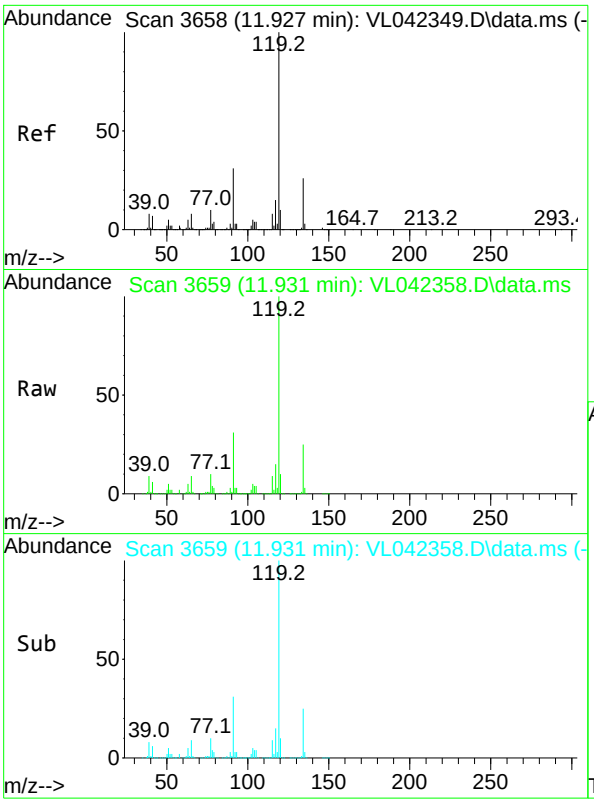


#68
1-Bromo-4-Fluorobenzene
Concen: 10.096 ppbv
RT: 10.380 min Scan# 3180
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 95 Resp: 266757

Ion	Ratio	Lower	Upper
95	100		
174	57.3	48.5	72.7
175	4.3	3.7	5.5

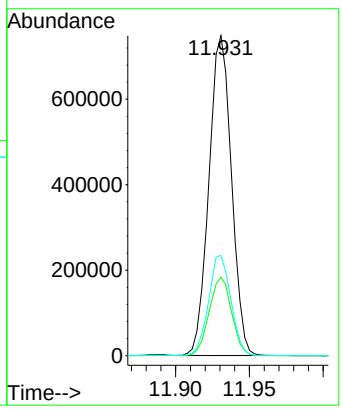




#69
p-Isopropyltoluene
Concen: 9.441 ppbv
RT: 11.931 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion:119 Resp: 79553

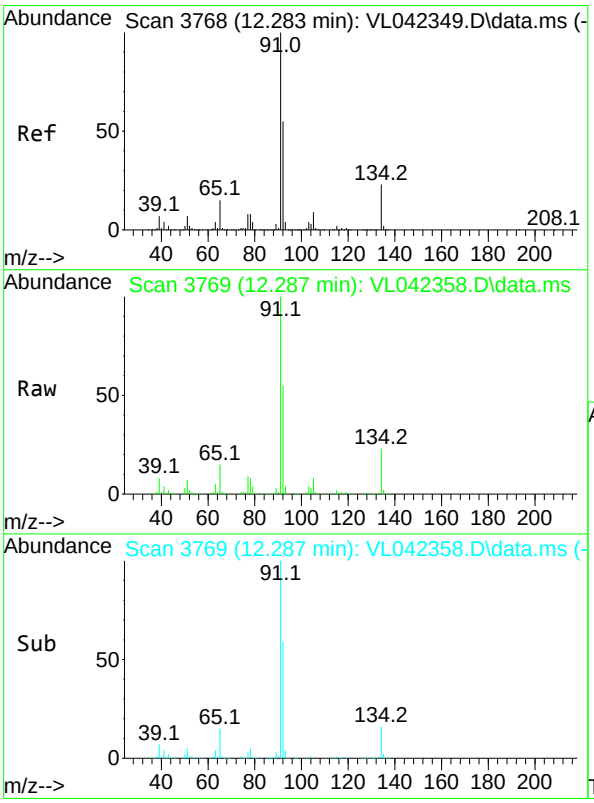
Ion	Ratio	Lower	Upper
119	100		
134	24.5	20.0	30.0
91	31.2	24.4	36.6



Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01

Manual Integrations
APPROVED

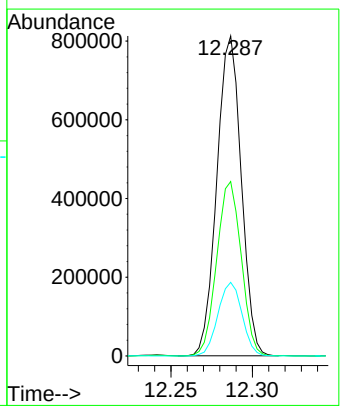
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

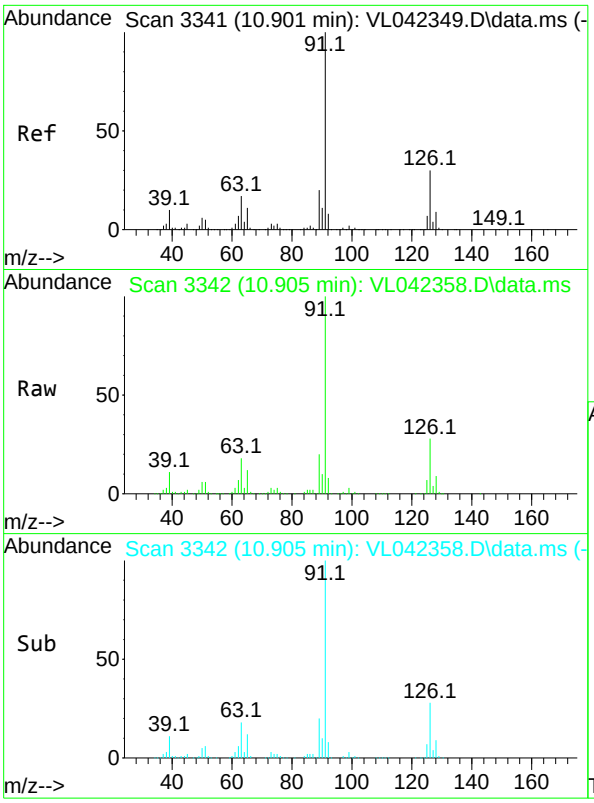


#70
n-Butylbenzene
Concen: 9.644 ppbv
RT: 12.287 min Scan# 3769
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 91 Resp: 846427

Ion	Ratio	Lower	Upper
91	100		
92	54.9	44.2	66.4
134	22.7	18.2	27.4

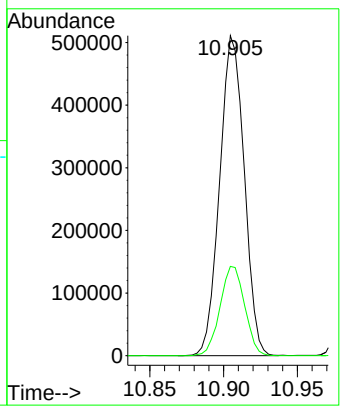




#71
2-Chlorotoluene
Concen: 9.934 ppbv
RT: 10.905 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 91 Resp: 59115

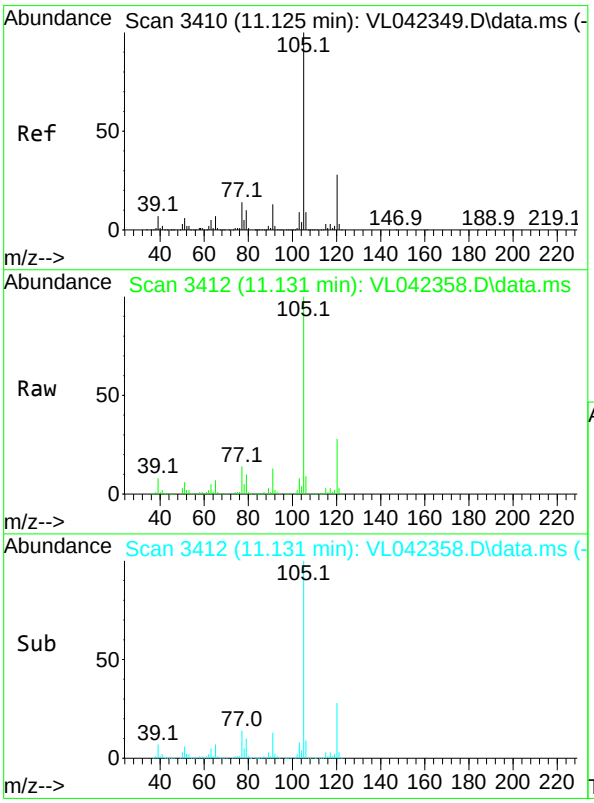
Ion	Ratio	Lower	Upper
91	100		
126	27.9	11.4	45.4



Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01

Manual Integrations
APPROVED

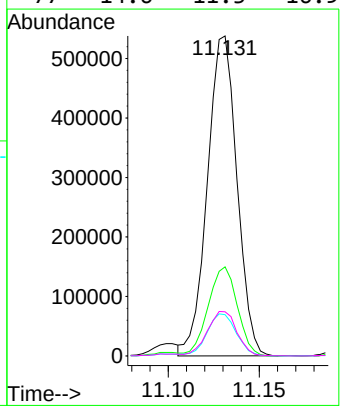
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

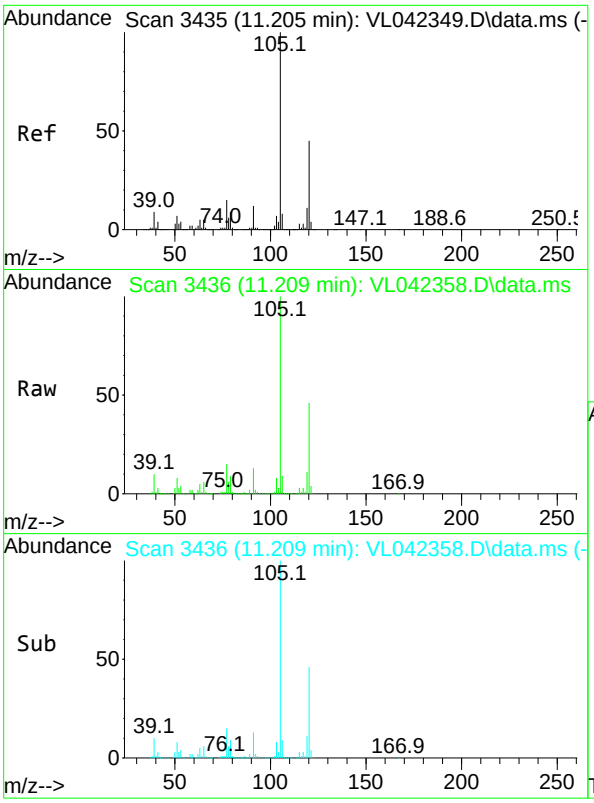


#72
4-Ethyltoluene
Concen: 9.606 ppbv
RT: 11.131 min Scan# 3412
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion:105 Resp: 606879

Ion	Ratio	Lower	Upper
105	100		
120	28.6	23.2	34.8
91	13.5	10.4	15.6
77	14.6	11.3	16.9

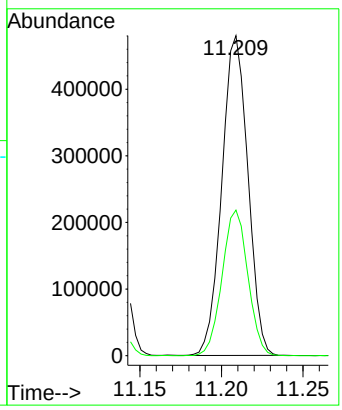




#73
1,3,5-Trimethylbenzene
Concen: 9.557 ppbv
RT: 11.209 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion:105 Resp: 53306

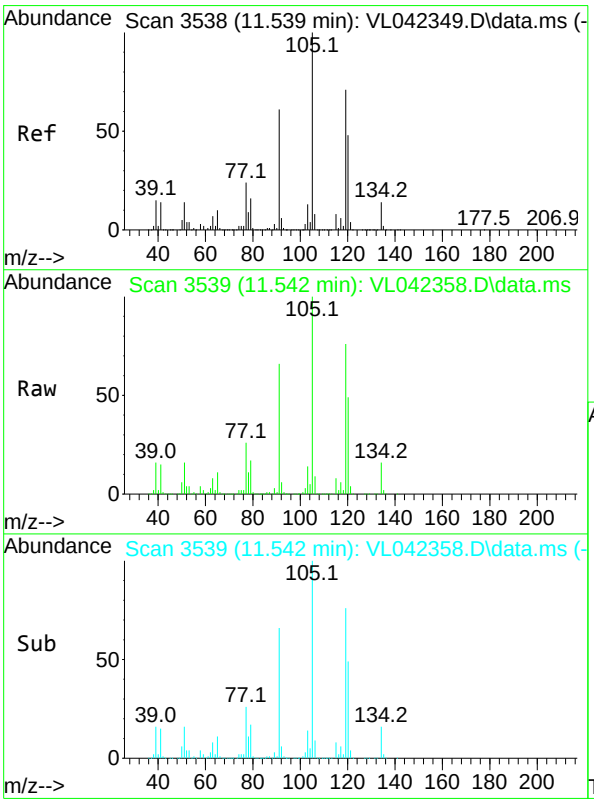
Ion	Ratio	Lower	Upper
105	100		
120	45.6	35.6	53.4



Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01

Manual Integrations
APPROVED

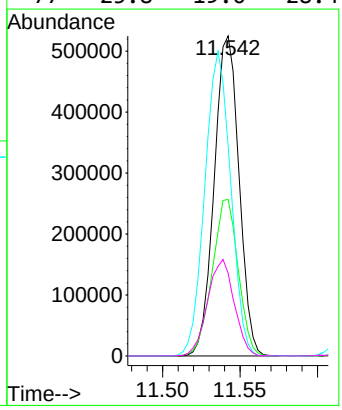
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

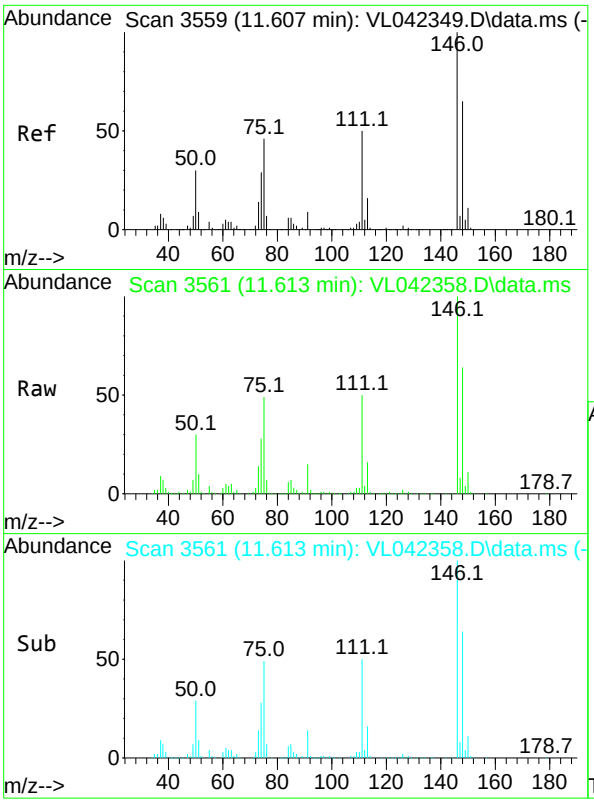


#74
1,2,4-Trimethylbenzene
Concen: 8.976 ppbv
RT: 11.542 min Scan# 3539
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion:105 Resp: 584747

Ion	Ratio	Lower	Upper
105	100		
120	48.9	38.1	57.1
91	65.8	48.8	73.2
77	25.8	19.0	28.4

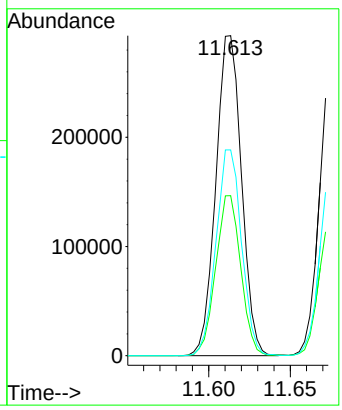




#75
1,3-Dichlorobenzene
Concen: 9.474 ppbv
RT: 11.613 min Scan# 3
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion:146 Resp: 32081

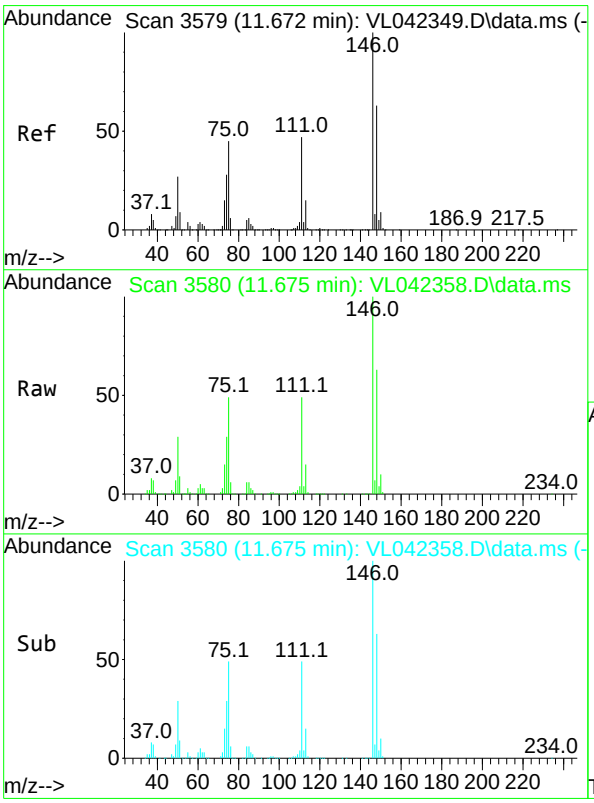
Ion	Ratio	Lower	Upper
146	100		
111	48.8	24.3	72.8
148	64.0	31.6	94.8



Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01

Manual Integrations
APPROVED

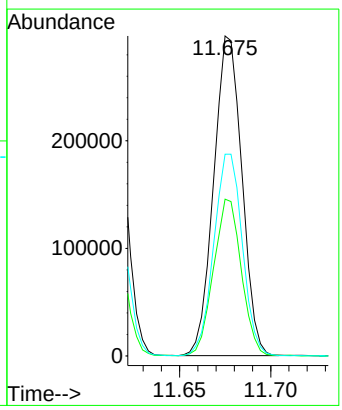
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

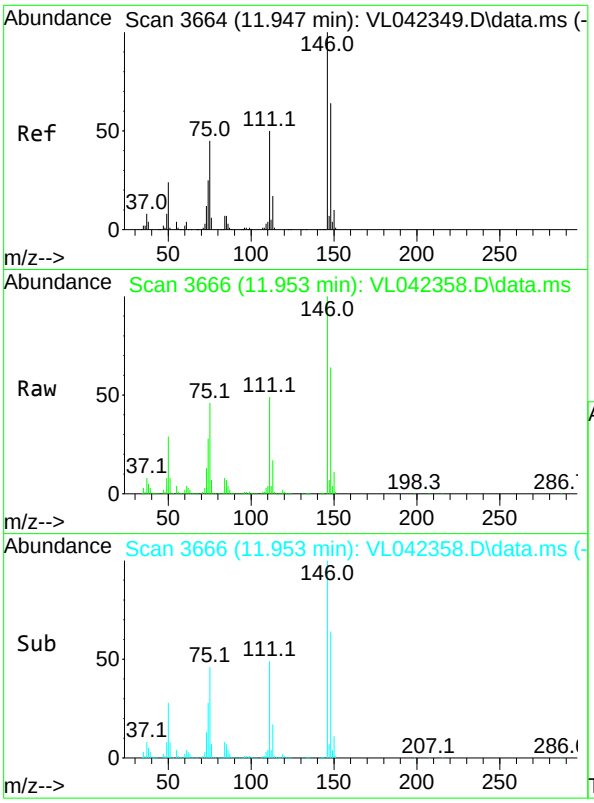


#76
1,4-Dichlorobenzene
Concen: 9.384 ppbv
RT: 11.675 min Scan# 3580
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion:146 Resp: 319376

Ion	Ratio	Lower	Upper
146	100		
111	48.6	24.2	72.6
148	64.1	32.1	96.5

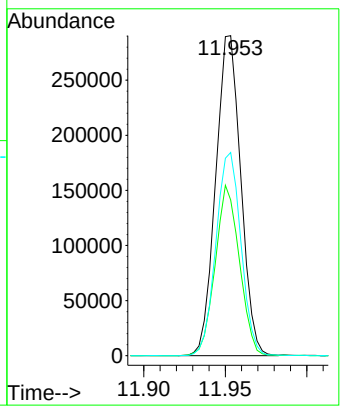




#77
1,2-Dichlorobenzene
Concen: 9.459 ppbv
RT: 11.953 min Scan# 3
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion:146 Resp: 31146

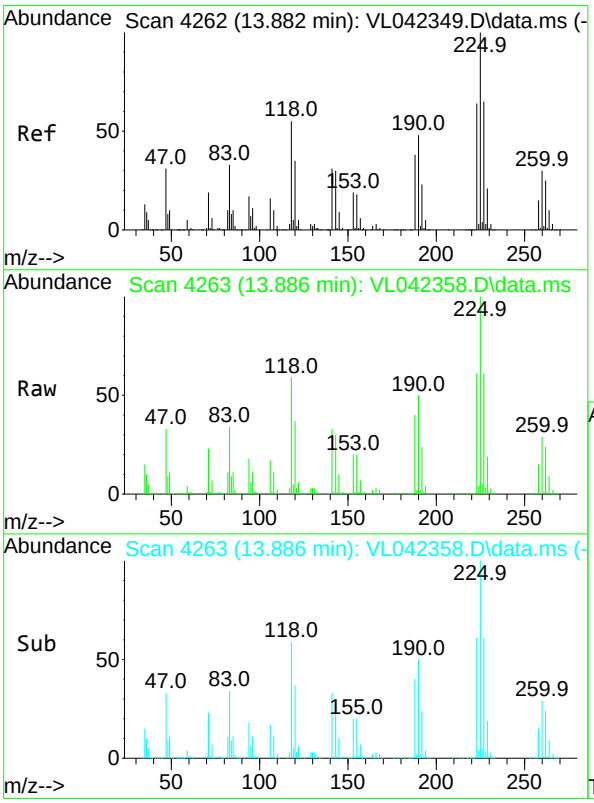
Ion	Ratio	Lower	Upper
146	100		
111	51.4	25.3	75.9
148	63.4	31.5	94.5



Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01

Manual Integrations
APPROVED

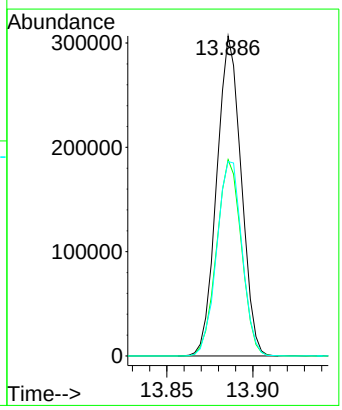
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

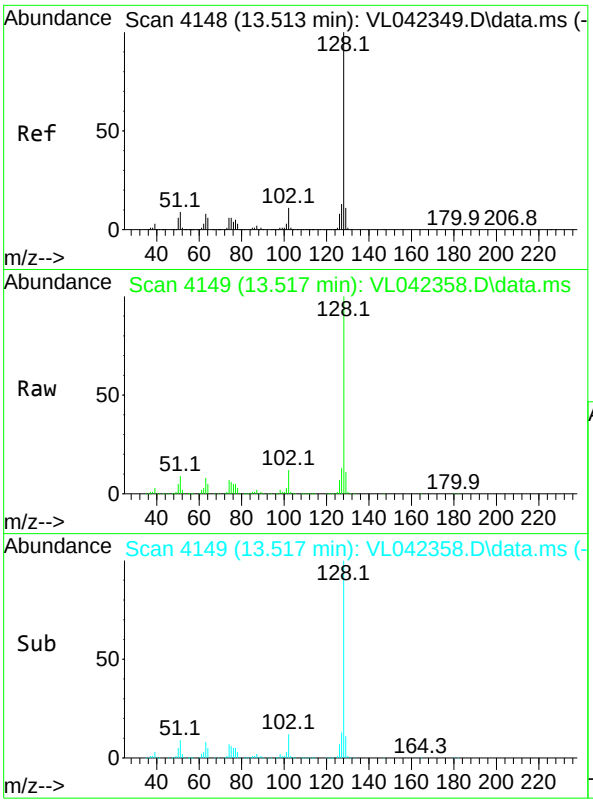


#78
Hexachloro-1,3-Butadiene
Concen: 9.124 ppbv
RT: 13.886 min Scan# 4263
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion:225 Resp: 303379

Ion	Ratio	Lower	Upper
225	100		
223	62.3	50.3	75.5
227	62.9	51.5	77.3

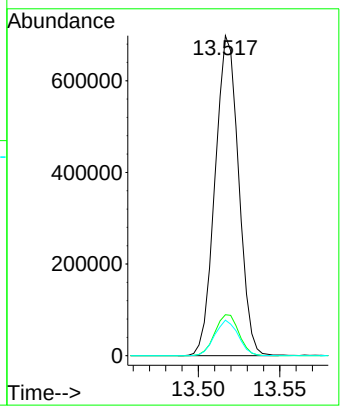




#79
Naphthalene
Concen: 8.999 ppbv
RT: 13.517 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion:128 Resp: 70101

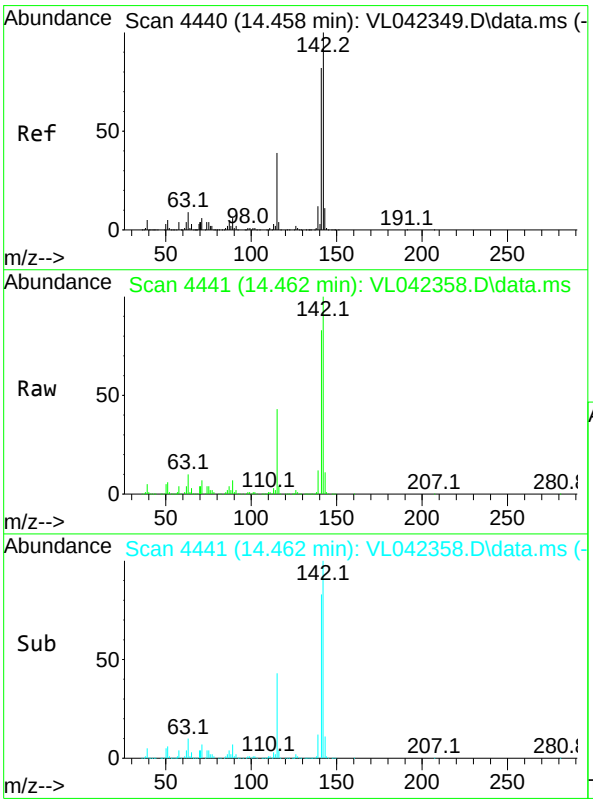
Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.6	15.8
129	11.1	8.6	12.8



Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01

Manual Integrations
APPROVED

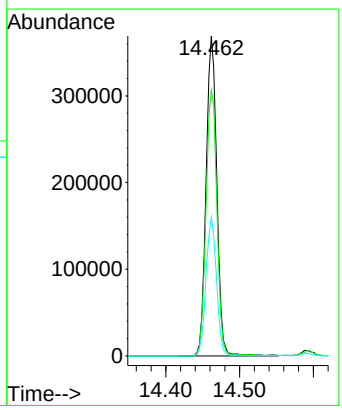
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

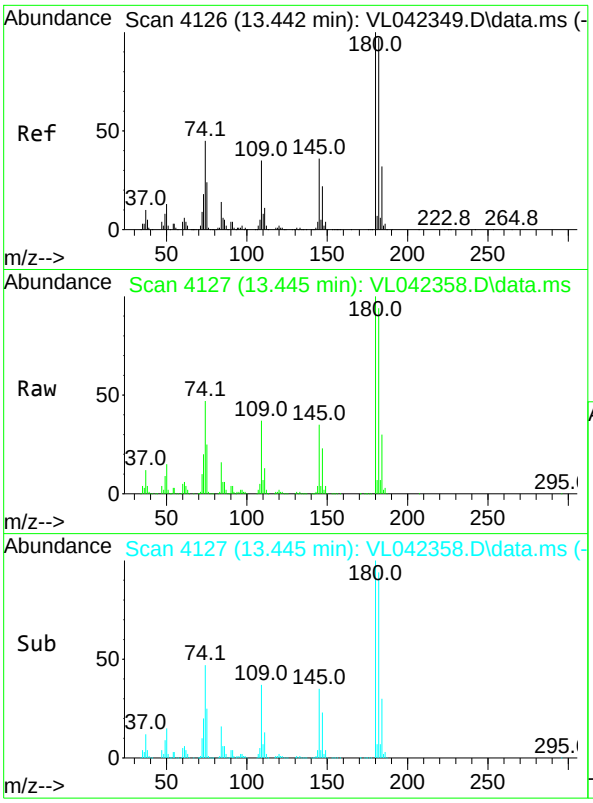


#80
Naphthalene,2-methyl-
Concen: 8.331 ppbv
RT: 14.462 min Scan# 4441
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion:142 Resp: 369891

Ion	Ratio	Lower	Upper
142	100		
141	85.0	66.8	100.2
115	42.8	33.4	50.2

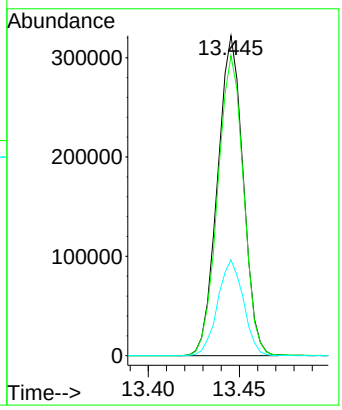




#81
1,2,4-Trichlorobenzene
Concen: 9.417 ppbv
RT: 13.445 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion:180 Resp: 31500

Ion	Ratio	Lower	Upper
180	100		
182	94.8	76.8	115.2
184	30.1	24.6	36.8



Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042362.D
Acq On : 17 Apr 2025 17:51
Operator : SY/MD
Sample : Q1668-01DUP
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 18 02:39:37 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025DUP

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.787	49	122226	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.959	114	344143	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.881	117	303859	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.377	95	251359	10.067	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 100.700%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.499	85	9771	0.452	ppbv		92
3) Chlorodifluoromethane	1.476	51	5731m	0.279	ppbv		
4) Chloromethane	1.534	50	4015	0.470	ppbv		99
9) Propene	1.486	41	5149	0.550	ppbv		92
10) Heptane	4.981	43	50613	1.924	ppbv		99
11) Trichlorofluoromethane	1.877	101	4655	0.227	ppbv		97
13) Ethanol	1.722	45	362837	243.762	ppbv		75
15) Acetone	1.835	43	104810	5.238	ppbv		94
19) Isopropyl Alcohol	1.887	45	25172	2.265	ppbv	#	6
20) Methylene Chloride	2.062	84	21791	2.781	ppbv		98
26) Hexane	2.826	57	56908	2.850	ppbv	#	34
27) Carbon Disulfide	2.149	76	12830	0.600	ppbv	#	1
30) Cyclohexane	3.861	84	54578	3.382	ppbv		100
34) 2-Butanone	2.560	43	18869	0.693	ppbv		96
35) Carbon Tetrachloride	3.764	117	2628m	0.084	ppbv		
36) Benzene	3.654	78	19730	0.532	ppbv	#	91
44) 2,2,4-Trimethylpentane	4.645	57	11077m	0.173	ppbv		
50) 4-Methyl-2-Pentanone	5.755	43	876965	19.389	ppbv		99
52) Tetrachloroethene	8.224	164	574m	0.040	ppbv		
53) Toluene	6.936	91	69352	1.557	ppbv		99
58) Ethyl Benzene	9.354	91	57094	0.948	ppbv		99
59) m/p-Xylene	9.532	91	448533	9.248	ppbv		100
60) o-Xylene	9.966	91	96845	1.983	ppbv		100
61) Styrene	9.872	104	37632	1.614	ppbv		98
62) Isopropylbenzene	10.539	105	10762	0.150	ppbv		97
64) n-propylbenzene	10.989	120	9965	0.553	ppbv		95
69) p-Isopropyltoluene	11.927	119	12725	0.160	ppbv		93
70) n-Butylbenzene	12.283	91	29311	0.353	ppbv	#	44
72) 4-Ethyltoluene	11.124	105	64934	1.088	ppbv	#	56
73) 1,3,5-Trimethylbenzene	11.205	105	70431	1.336	ppbv		97
74) 1,2,4-Trimethylbenzene	11.539	105	242011	3.931	ppbv	#	61
79) Naphthalene	13.513	128	46070	0.626	ppbv	#	96
80) Naphthalene,2-methyl-	14.458	142	10505m	0.250	ppbv		

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

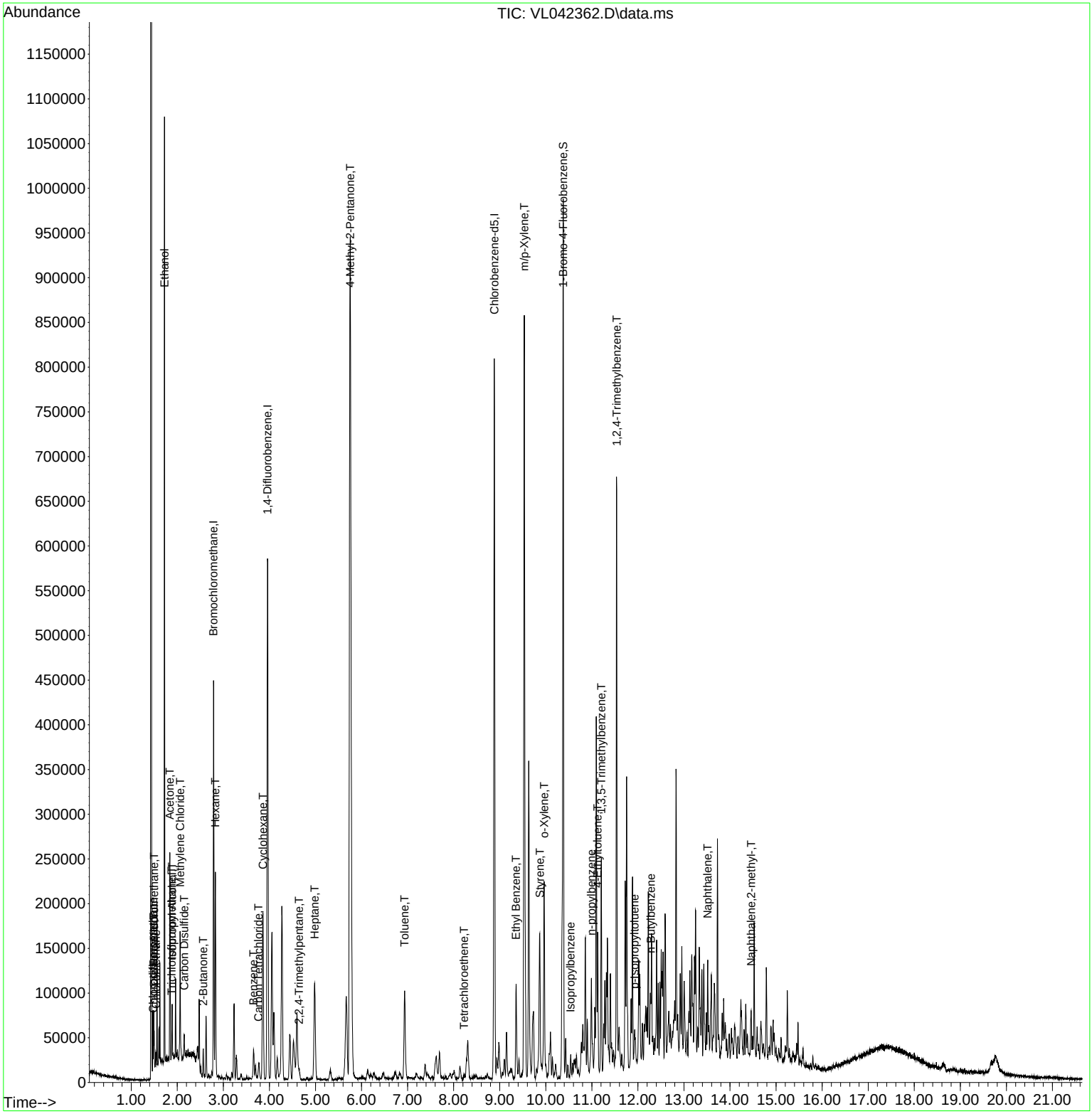
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042362.D
Acq On : 17 Apr 2025 17:51
Operator : SY/MD
Sample : Q1668-01DUP
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

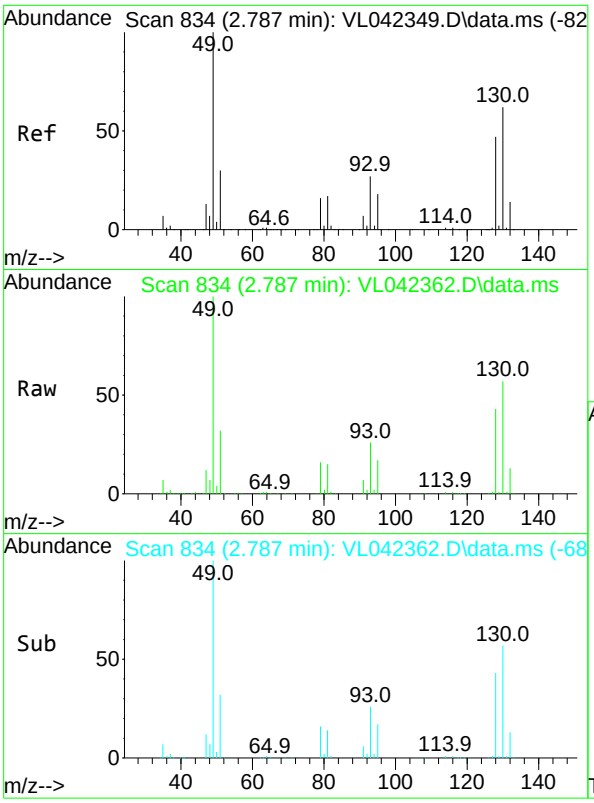
Quant Time: Apr 18 02:39:37 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025DUP

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

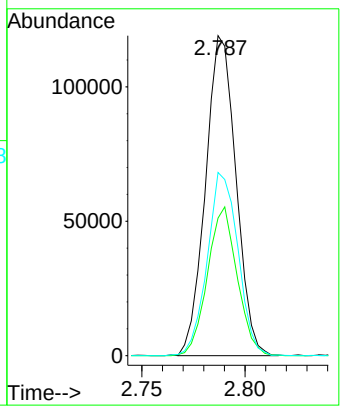




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL042362.D
Acq: 17 Apr 2025 17:51

Tgt Ion: 49 Resp: 12222

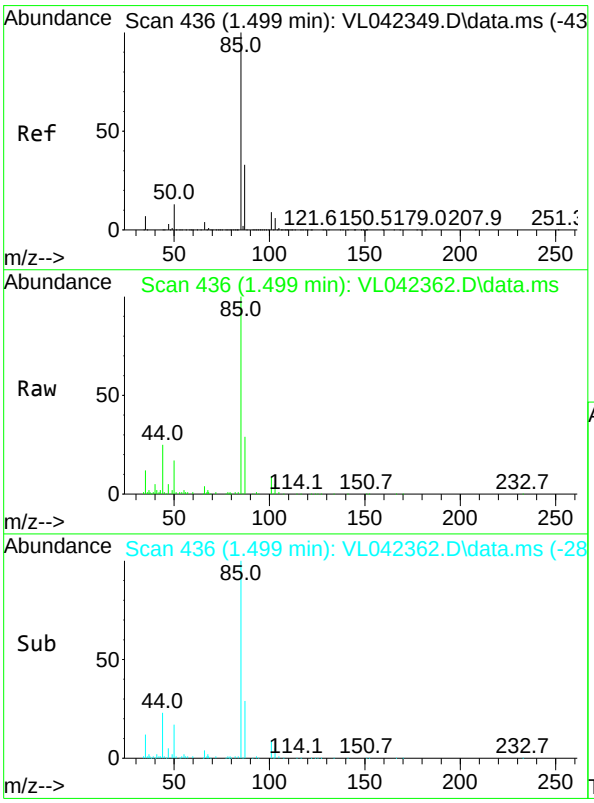
Ion	Ratio	Lower	Upper
49	100		
128	45.2	22.8	68.4
130	57.7	29.3	88.0



Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025DUP

Manual Integrations
APPROVED

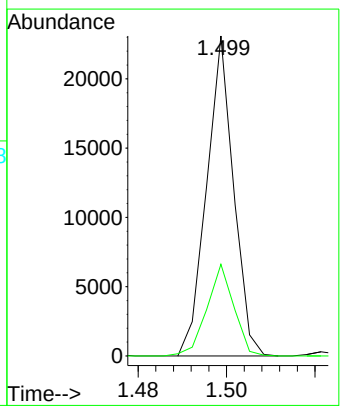
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

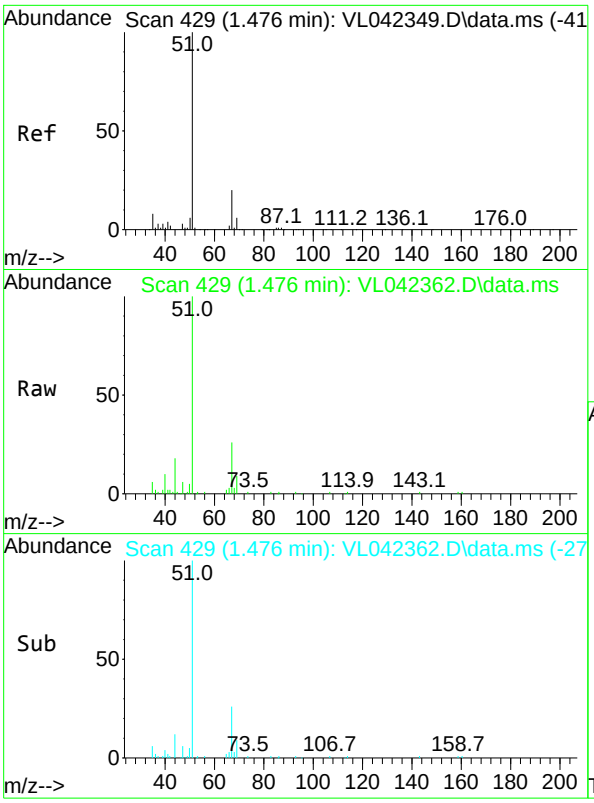


#2
Dichlorodifluoromethane
Concen: 0.452 ppbv
RT: 1.499 min Scan# 436
Delta R.T. -0.000 min
Lab File: VL042362.D
Acq: 17 Apr 2025 17:51

Tgt Ion: 85 Resp: 9771

Ion	Ratio	Lower	Upper
85	100		
87	28.7	26.6	39.8

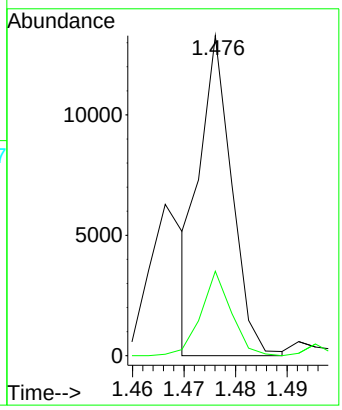




#3
Chlorodifluoromethane
Concen: 0.279 ppbv m
RT: 1.476 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042362.D
Acq: 17 Apr 2025 17:51

Tgt Ion: 51 Resp: 573

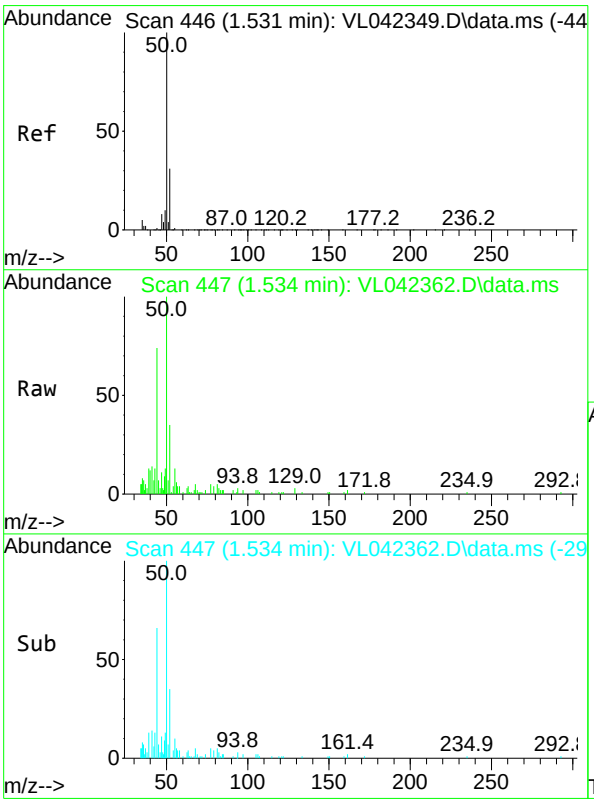
Ion	Ratio	Lower	Upper
51	100		
67	28.1	16.2	24.4



Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025DUP

Manual Integrations
APPROVED

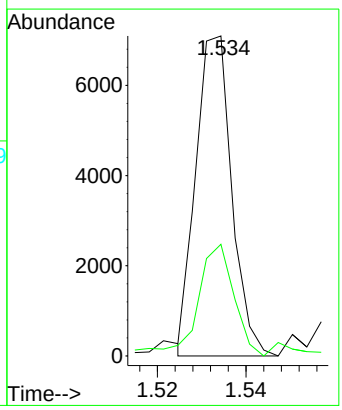
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

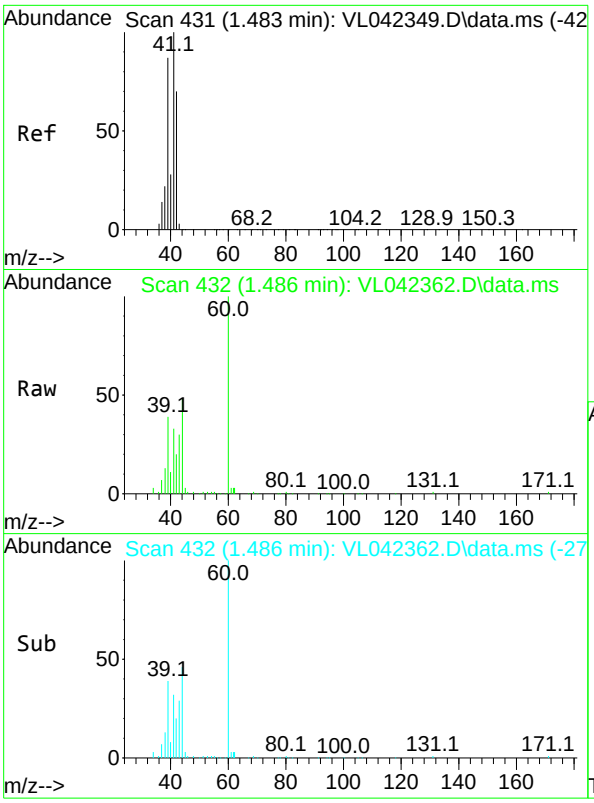


#4
Chloromethane
Concen: 0.470 ppbv
RT: 1.534 min Scan# 447
Delta R.T. 0.003 min
Lab File: VL042362.D
Acq: 17 Apr 2025 17:51

Tgt Ion: 50 Resp: 4015

Ion	Ratio	Lower	Upper
50	100		
52	31.6	24.7	37.1

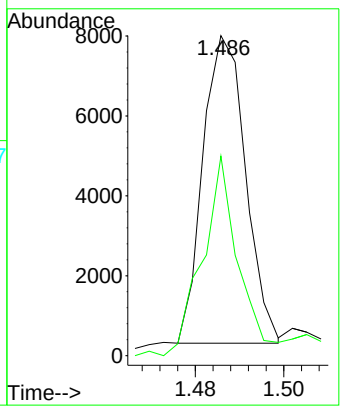




#9
Propene
Concen: 0.550 ppbv
RT: 1.486 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL042362.D
Acq: 17 Apr 2025 17:51

Tgt Ion: 41 Resp: 514

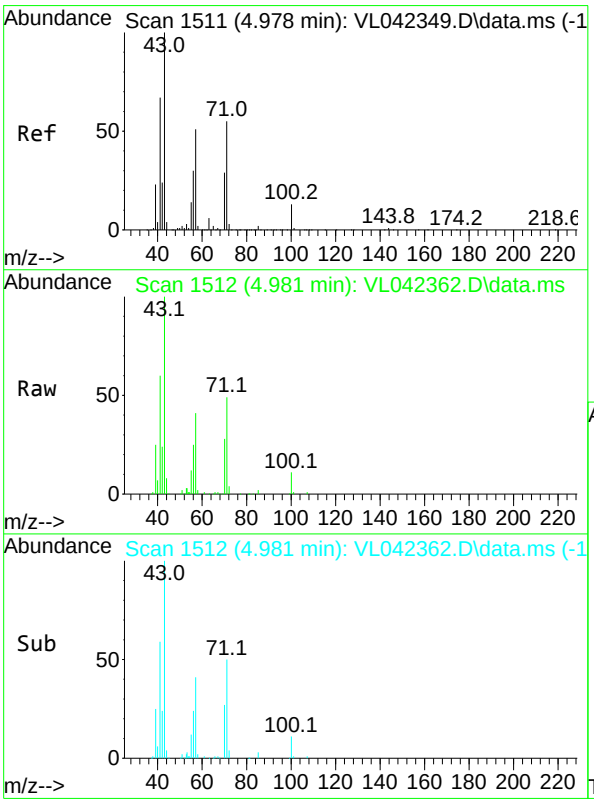
Ion	Ratio	Lower	Upper
41	100		
42	63.7	56.2	84.4



Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025DUP

Manual Integrations
APPROVED

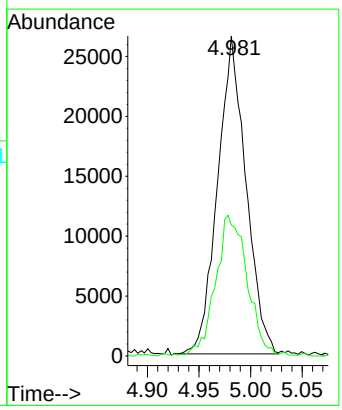
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

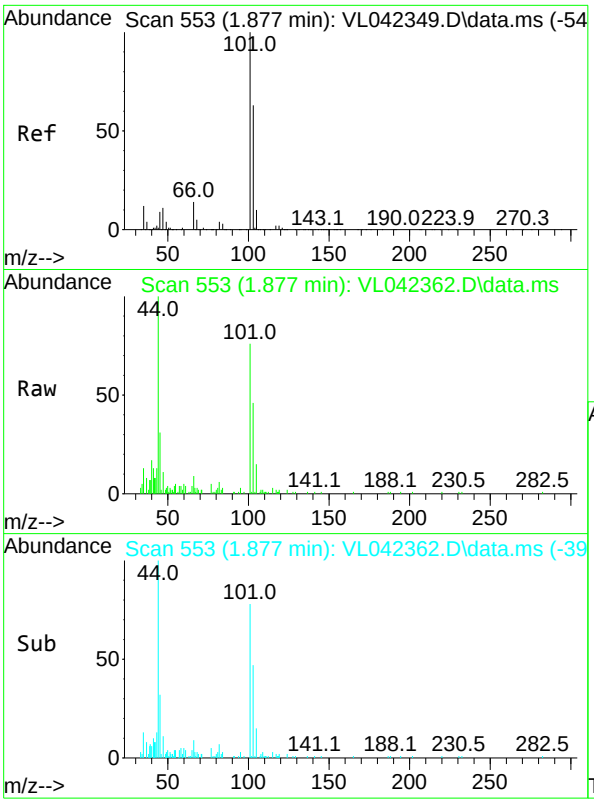


#10
Heptane
Concen: 1.924 ppbv
RT: 4.981 min Scan# 1512
Delta R.T. 0.003 min
Lab File: VL042362.D
Acq: 17 Apr 2025 17:51

Tgt Ion: 43 Resp: 50613

Ion	Ratio	Lower	Upper
43	100		
57	50.3	39.9	59.9

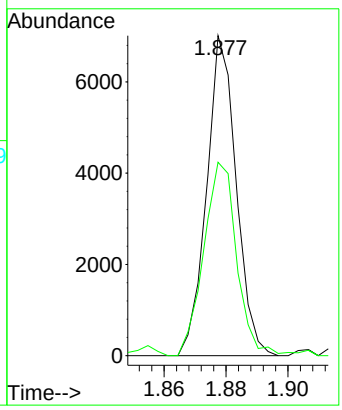




#11
Trichlorofluoromethane
Concen: 0.227 ppbv
RT: 1.877 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL042362.D
Acq: 17 Apr 2025 17:51

Tgt Ion:101 Resp: 465

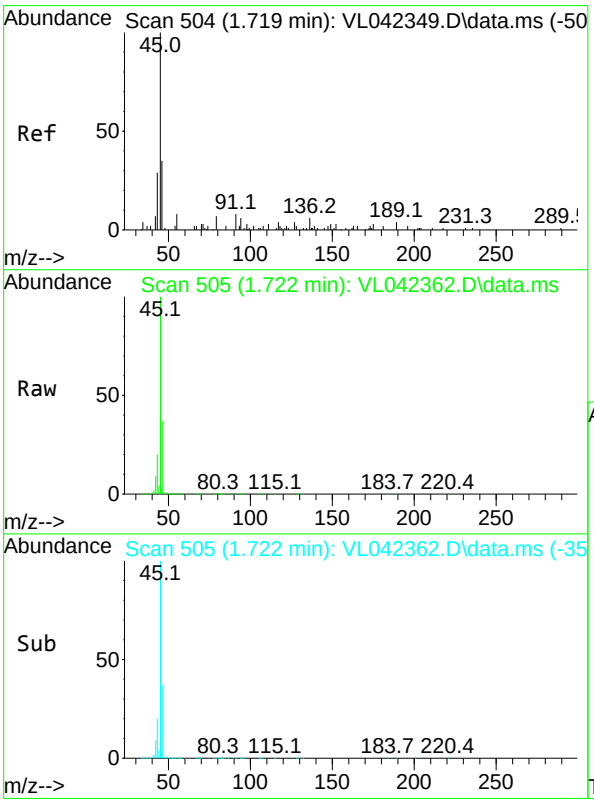
Ion	Ratio	Lower	Upper
101	100		
103	60.4	50.1	75.1



Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025DUP

Manual Integrations
APPROVED

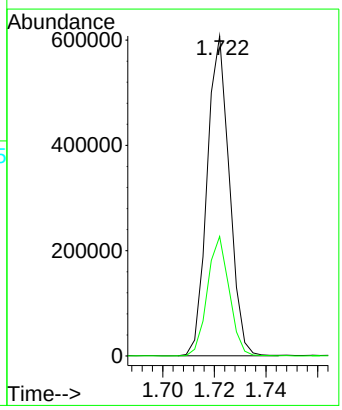
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

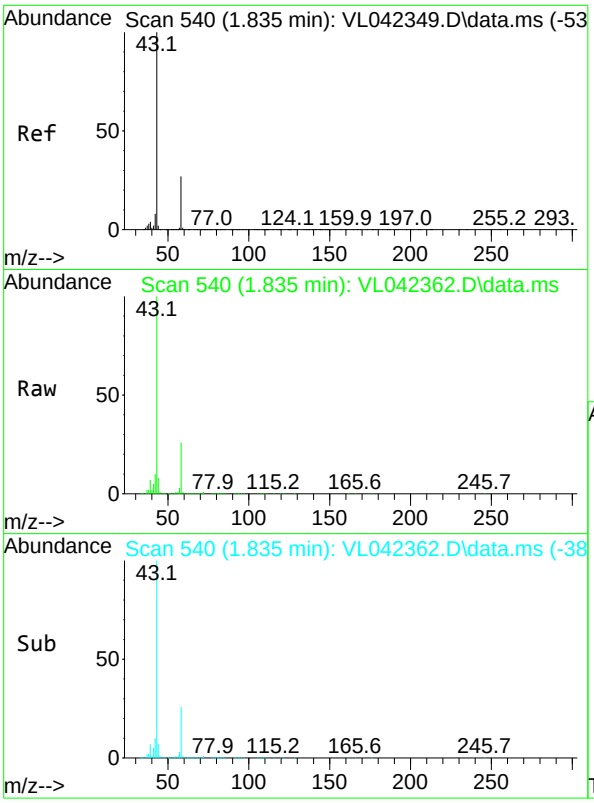


#13
Ethanol
Concen: 243.762 ppbv
RT: 1.722 min Scan# 505
Delta R.T. 0.003 min
Lab File: VL042362.D
Acq: 17 Apr 2025 17:51

Tgt Ion: 45 Resp: 362837

Ion	Ratio	Lower	Upper
45	100		
46	36.8	21.9	87.7

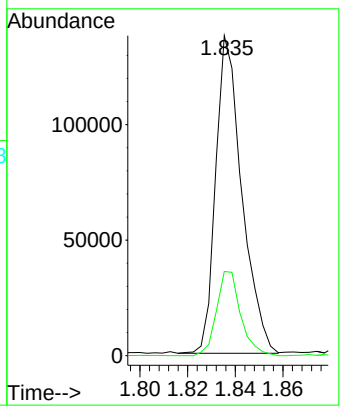




#15
Acetone
Concen: 5.238 ppbv
RT: 1.835 min Scan# 54
Delta R.T. -0.000 min
Lab File: VL042362.D
Acq: 17 Apr 2025 17:51

Tgt Ion: 43 Resp: 10481(

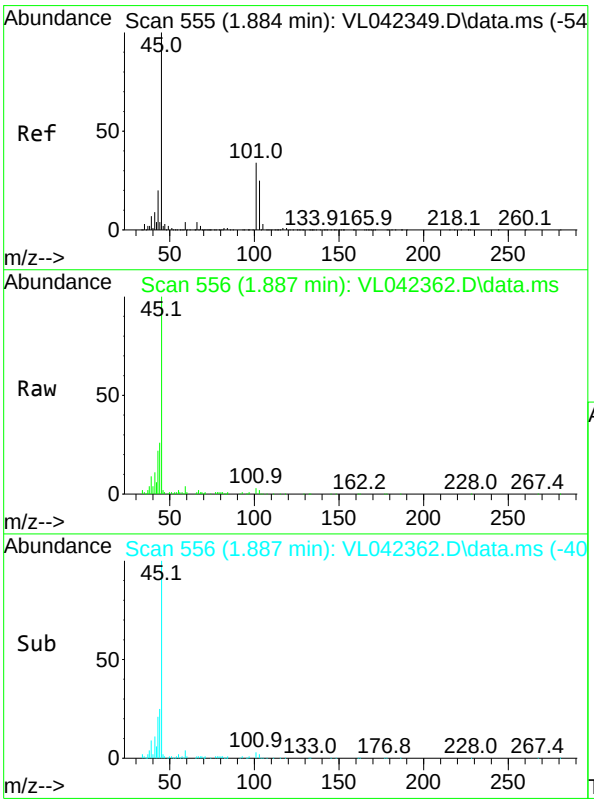
Ion	Ratio	Lower	Upper
43	100		
58	24.9	22.4	33.6



Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025DUP

Manual Integrations
APPROVED

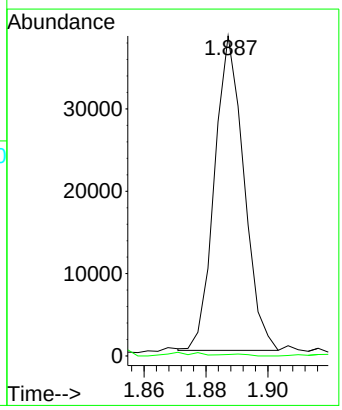
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

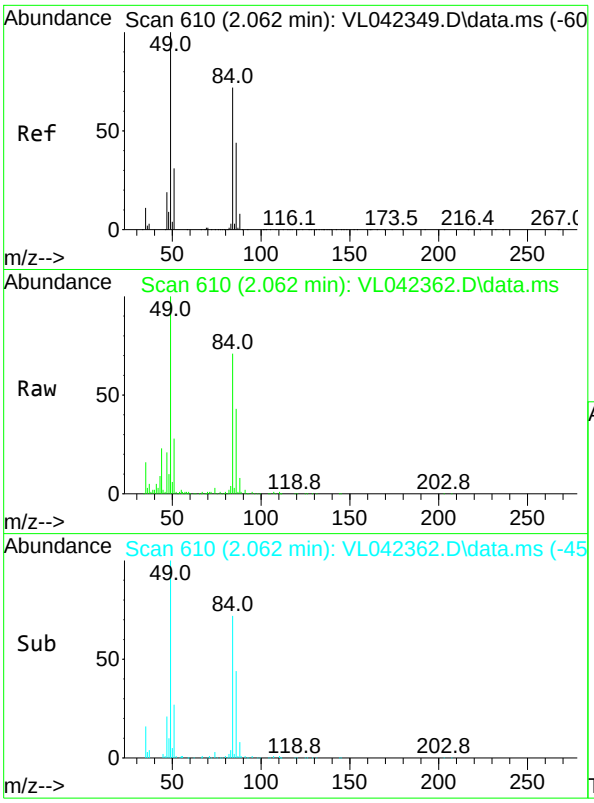


#19
Isopropyl Alcohol
Concen: 2.265 ppbv
RT: 1.887 min Scan# 556
Delta R.T. 0.003 min
Lab File: VL042362.D
Acq: 17 Apr 2025 17:51

Tgt Ion: 45 Resp: 25172

Ion	Ratio	Lower	Upper
45	100		
58	103.6	34.5	51.7#

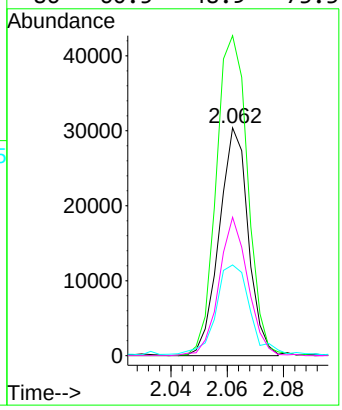




#20
Methylene Chloride
Concen: 2.781 ppbv
RT: 2.062 min Scan# 6
Delta R.T. -0.000 min
Lab File: VL042362.D
Acq: 17 Apr 2025 17:51

Tgt Ion: 84 Resp: 2179

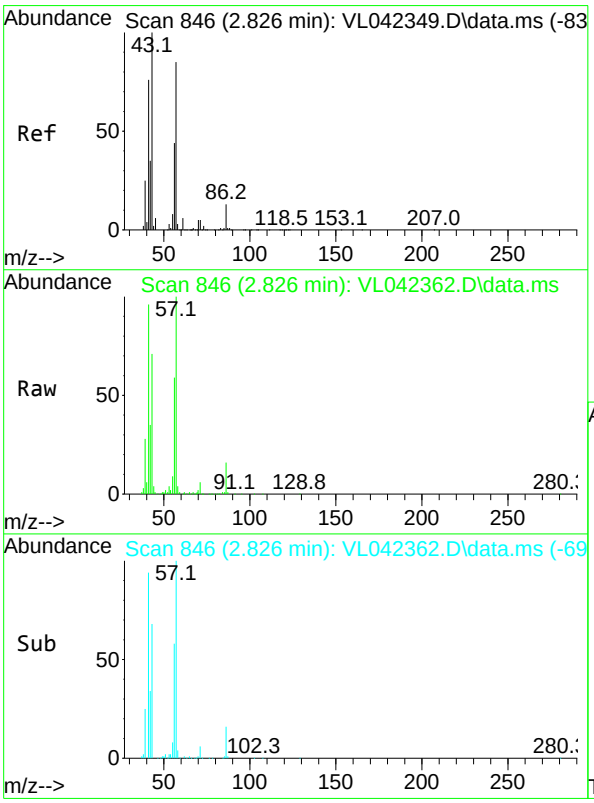
Ion	Ratio	Lower	Upper
84	100		
49	140.1	111.6	167.4
51	39.0	35.1	52.7
86	60.5	48.9	73.3



Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025DUP

Manual Integrations
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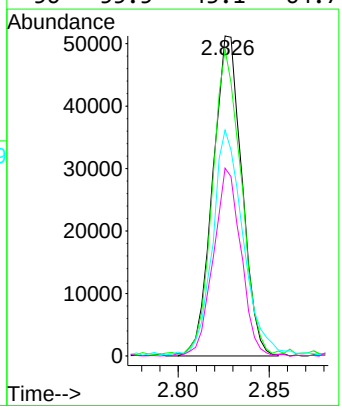
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

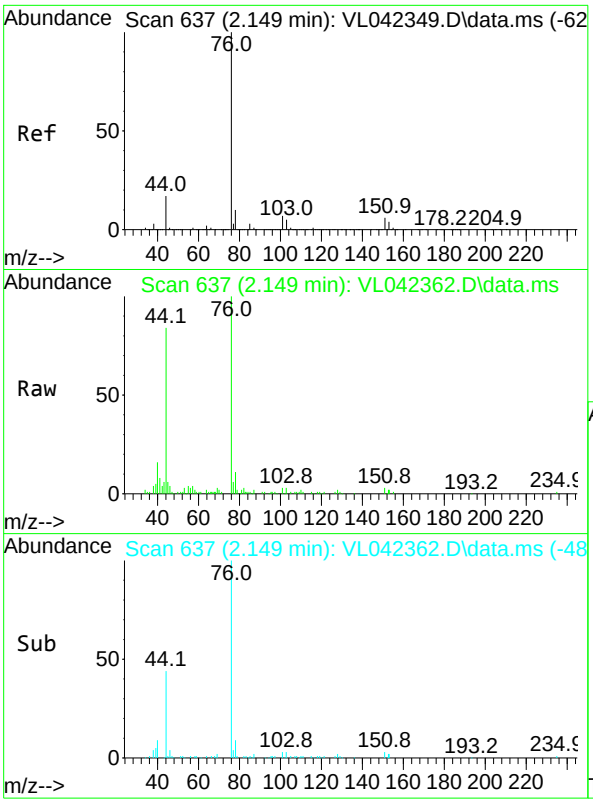


#26
Hexane
Concen: 2.850 ppbv
RT: 2.826 min Scan# 846
Delta R.T. -0.000 min
Lab File: VL042362.D
Acq: 17 Apr 2025 17:51

Tgt Ion: 57 Resp: 56908

Ion	Ratio	Lower	Upper
57	100		
41	95.3	77.9	116.9
43	75.0	208.4	312.6#
56	55.5	43.1	64.7

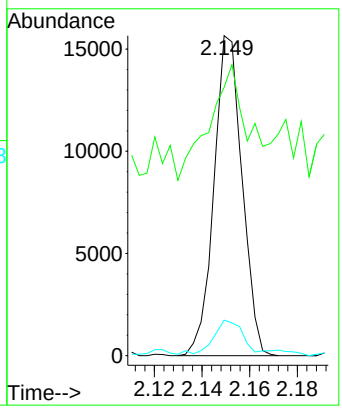




#27
Carbon Disulfide
Concen: 0.600 ppbv
RT: 2.149 min Scan# 6
Delta R.T. -0.000 min
Lab File: VL042362.D
Acq: 17 Apr 2025 17:51

Tgt Ion: 76 Resp: 1283

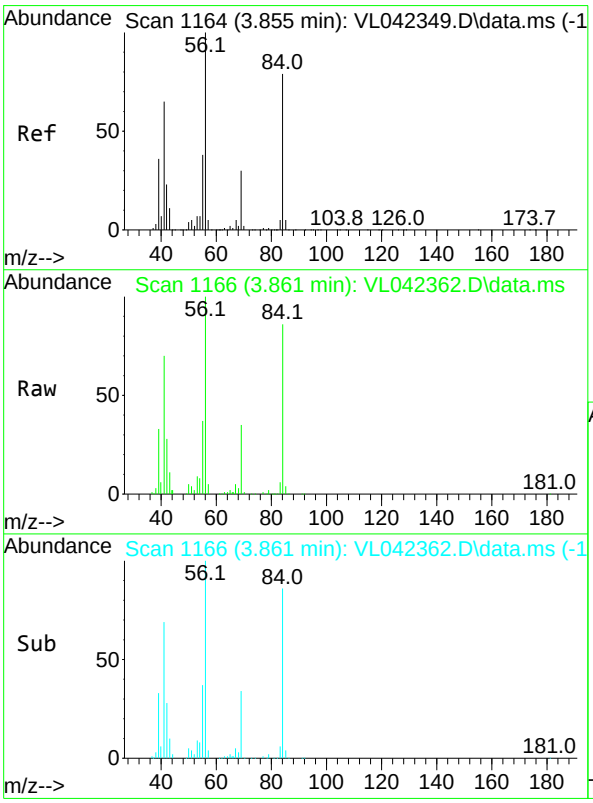
Ion	Ratio	Lower	Upper
76	100		
44	218.5	15.5	23.3#
78	15.2	9.3	13.9#



Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025DUP

Manual Integrations
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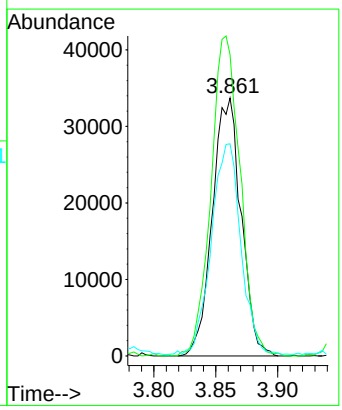
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

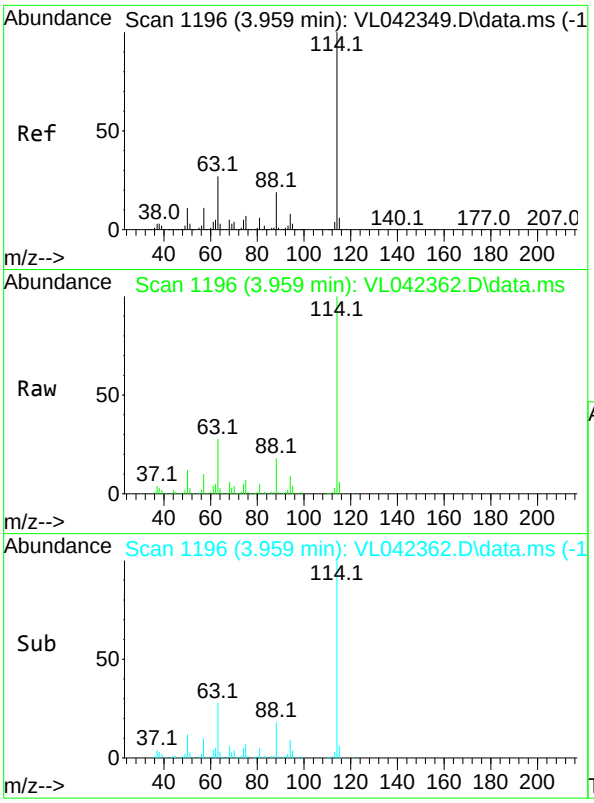


#30
Cyclohexane
Concen: 3.382 ppbv
RT: 3.861 min Scan# 1166
Delta R.T. 0.006 min
Lab File: VL042362.D
Acq: 17 Apr 2025 17:51

Tgt Ion: 84 Resp: 54578

Ion	Ratio	Lower	Upper
84	100		
56	125.7	101.0	151.4
41	83.8	67.4	101.0

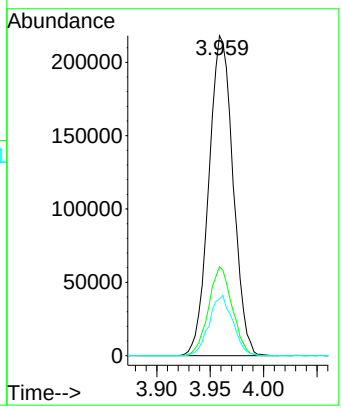




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.959 min Scan# 1
Delta R.T. -0.000 min
Lab File: VL042362.D
Acq: 17 Apr 2025 17:51

Tgt Ion:114 Resp: 34414

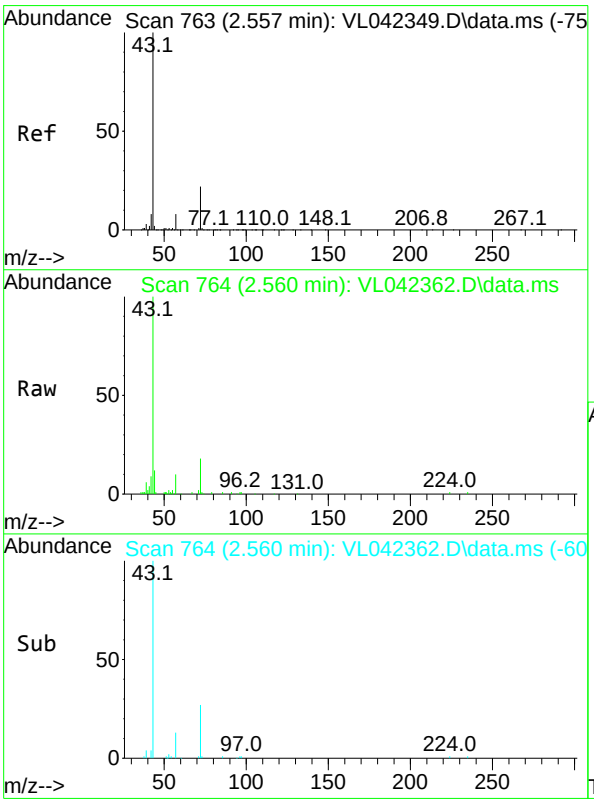
Ion	Ratio	Lower	Upper
114	100		
63	27.2	21.8	32.6
88	18.4	15.5	23.3



Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025DUP

Manual Integrations
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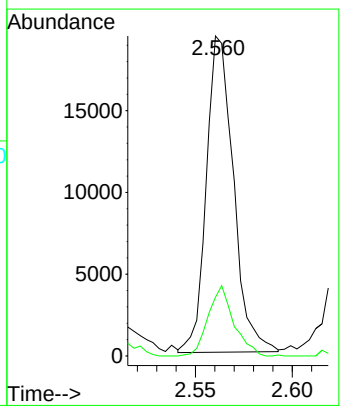
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

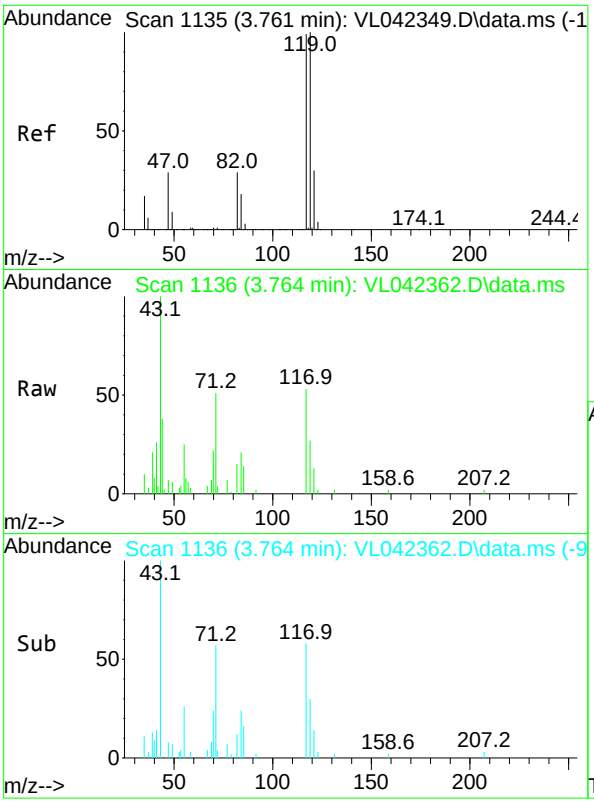


#34
2-Butanone
Concen: 0.693 ppbv
RT: 2.560 min Scan# 764
Delta R.T. 0.003 min
Lab File: VL042362.D
Acq: 17 Apr 2025 17:51

Tgt Ion: 43 Resp: 18869

Ion	Ratio	Lower	Upper
43	100		
72	21.0	18.2	27.2

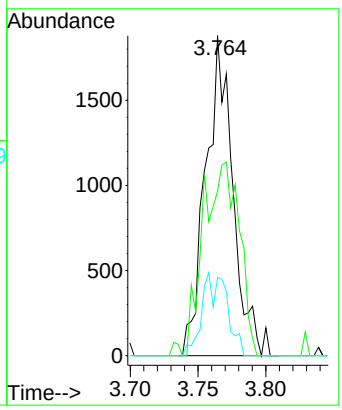




#35
Carbon Tetrachloride
Concen: 0.084 ppbv m
RT: 3.764 min Scan# 1
Delta R.T. 0.003 min
Lab File: VL042362.D
Acq: 17 Apr 2025 17:51

Tgt Ion:117 Resp: 262

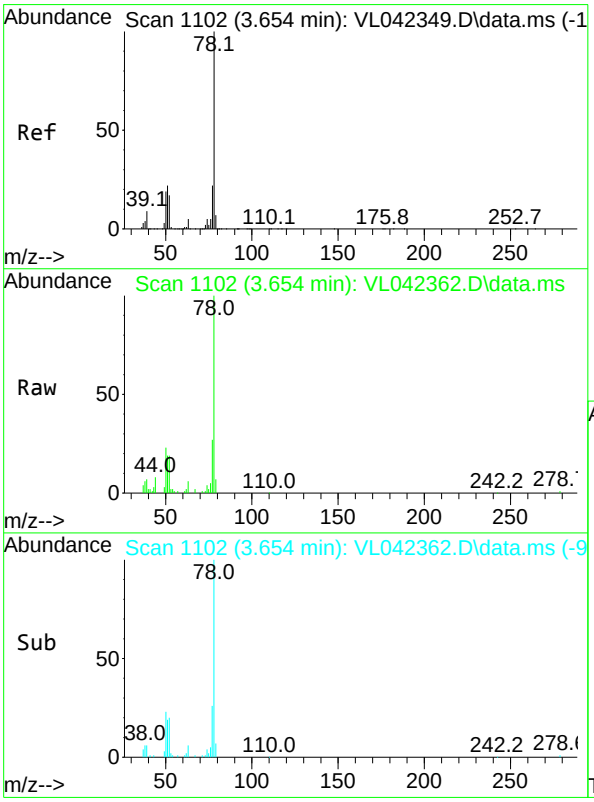
Ion	Ratio	Lower	Upper
117	100		
119	51.5	80.5	120.7#
121	24.5	24.2	36.2



Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025DUP

Manual Integrations
APPROVED

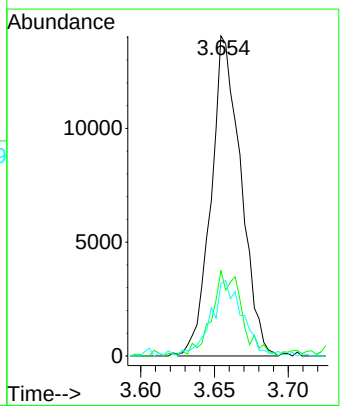
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

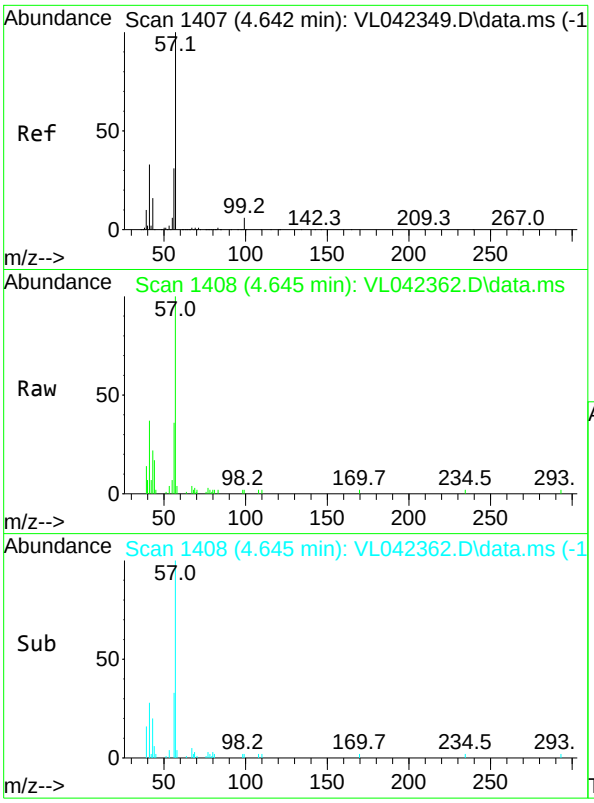


#36
Benzene
Concen: 0.532 ppbv
RT: 3.654 min Scan# 1102
Delta R.T. -0.000 min
Lab File: VL042362.D
Acq: 17 Apr 2025 17:51

Tgt Ion: 78 Resp: 19730

Ion	Ratio	Lower	Upper
78	100		
77	26.6	17.4	26.0#
50	22.7	15.5	23.3

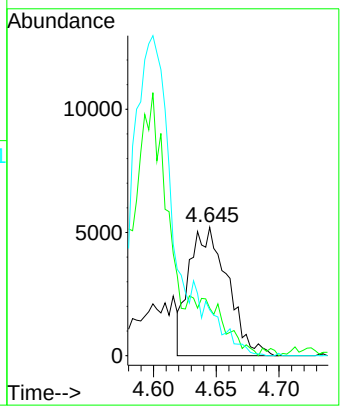




#44
2,2,4-Trimethylpentane
Concen: 0.173 ppbv m
RT: 4.645 min Scan# 14
Delta R.T. 0.003 min
Lab File: VL042362.D
Acq: 17 Apr 2025 17:51

Tgt Ion: 57 Resp: 1107

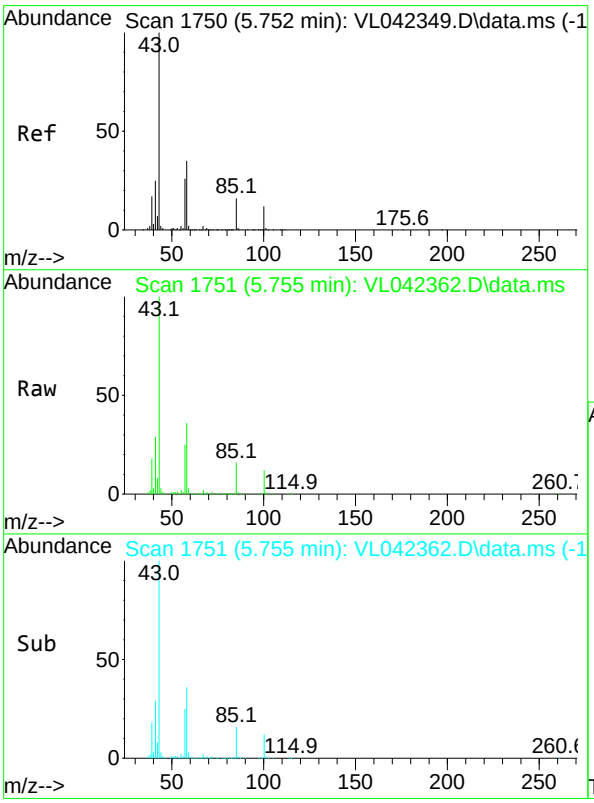
Ion	Ratio	Lower	Upper
57	100		
41	0.0	27.2	40.8#
56	0.0	25.7	38.5#



Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025DUP

Manual Integrations
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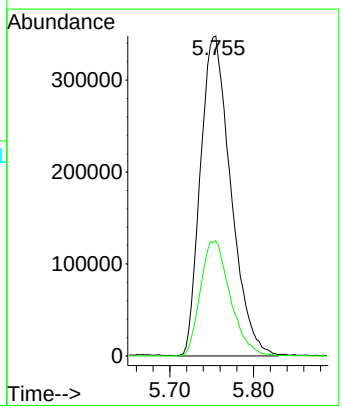
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

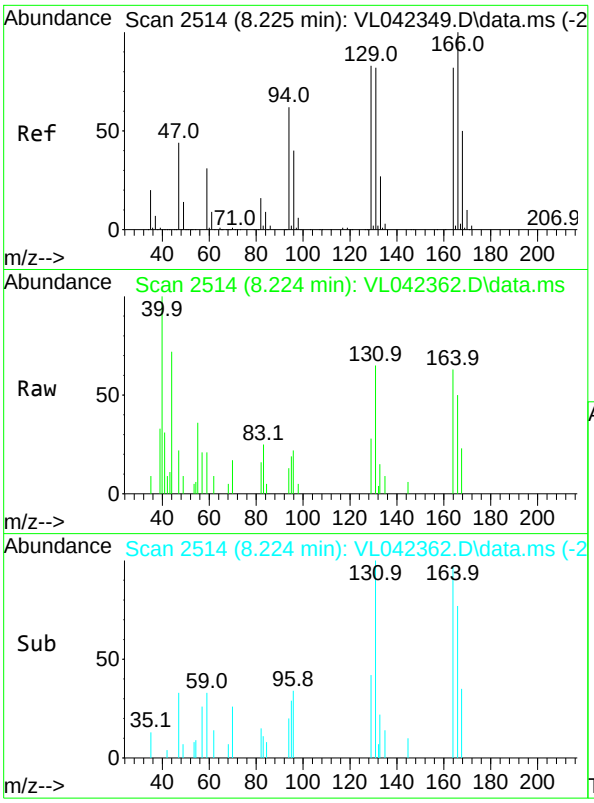


#50
4-Methyl-2-Pentanone
Concen: 19.389 ppbv
RT: 5.755 min Scan# 1751
Delta R.T. 0.003 min
Lab File: VL042362.D
Acq: 17 Apr 2025 17:51

Tgt Ion: 43 Resp: 876965

Ion	Ratio	Lower	Upper
43	100		
58	35.4	28.6	43.0

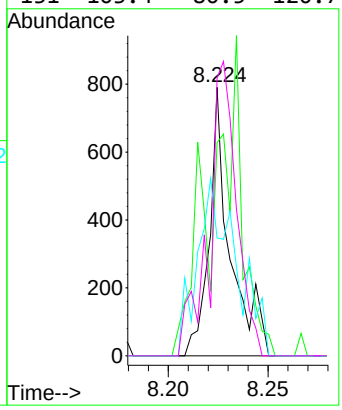




#52
Tetrachloroethene
Concen: 0.040 ppbv m
RT: 8.224 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL042362.D
Acq: 17 Apr 2025 17:51

Tgt Ion:164 Resp: 57

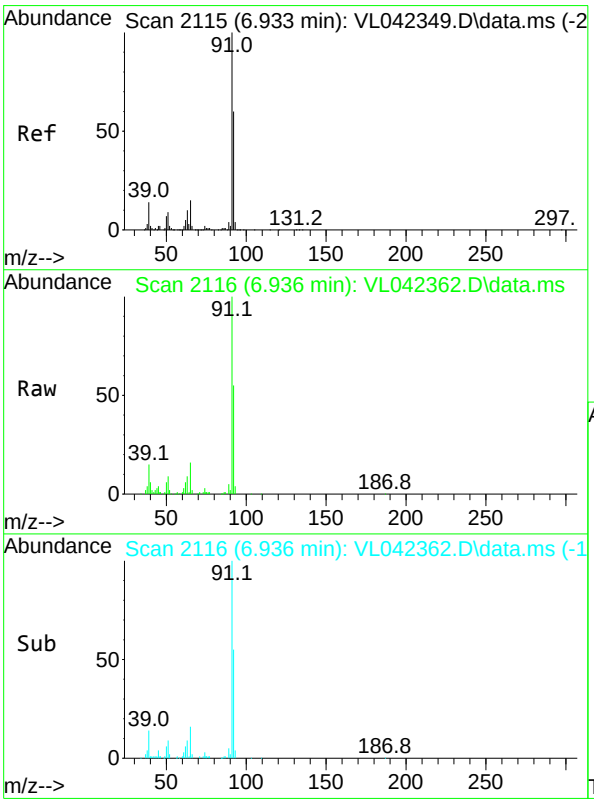
Ion	Ratio	Lower	Upper
164	100		
166	79.4	98.2	147.2#
129	43.9	81.8	122.8#
131	103.4	80.5	120.7



Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025DUP

Manual Integrations
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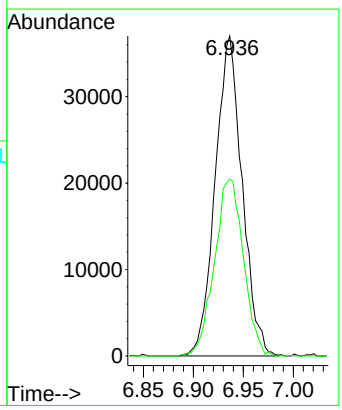
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

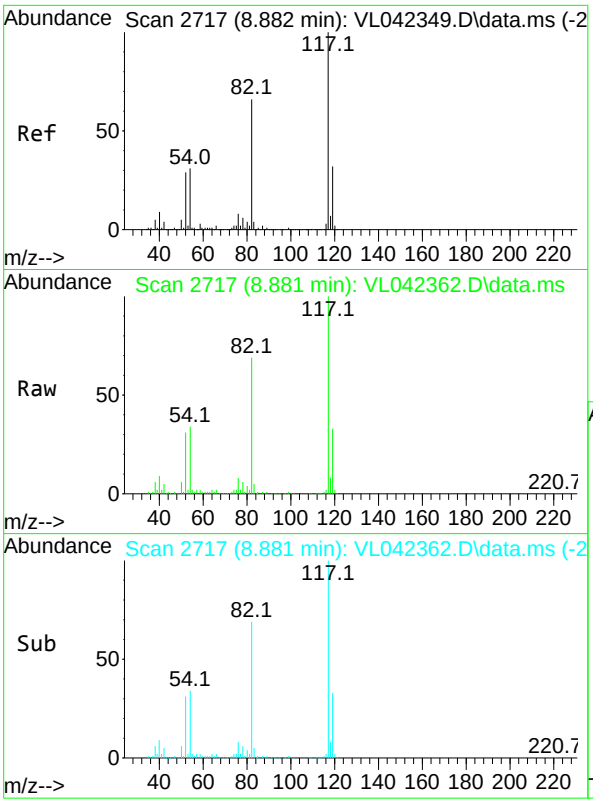


#53
Toluene
Concen: 1.557 ppbv
RT: 6.936 min Scan# 2116
Delta R.T. 0.003 min
Lab File: VL042362.D
Acq: 17 Apr 2025 17:51

Tgt Ion: 91 Resp: 69352

Ion	Ratio	Lower	Upper
91	100		
92	59.6	48.2	72.4

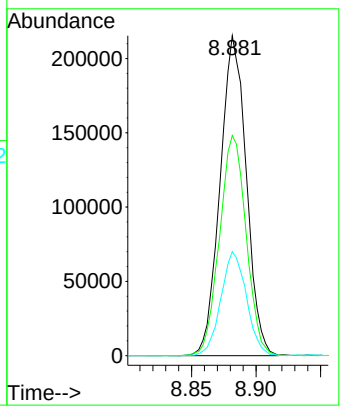




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.881 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL042362.D
Acq: 17 Apr 2025 17:51

Tgt Ion:117 Resp: 303859

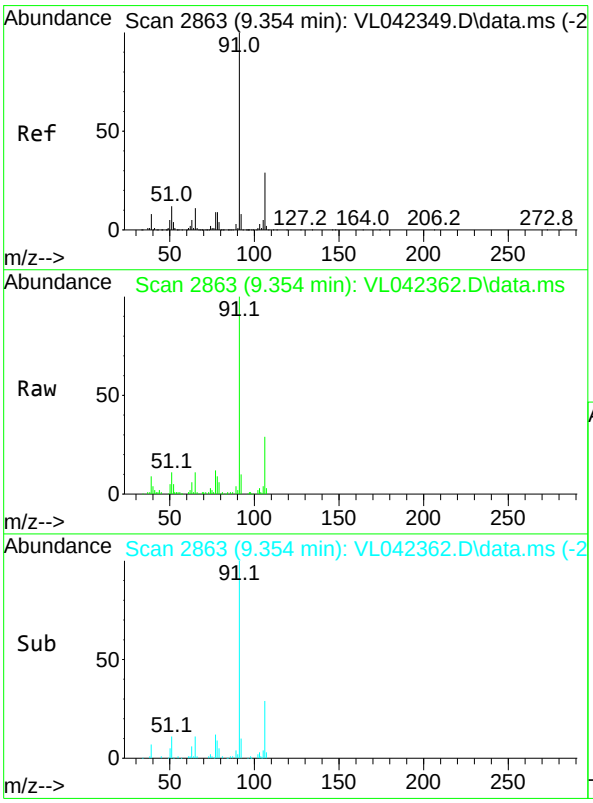
Ion	Ratio	Lower	Upper
117	100		
82	70.0	57.8	86.6
119	31.8	25.2	37.8



Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025DUP

Manual Integrations
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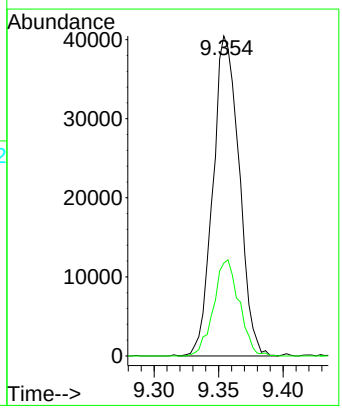
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

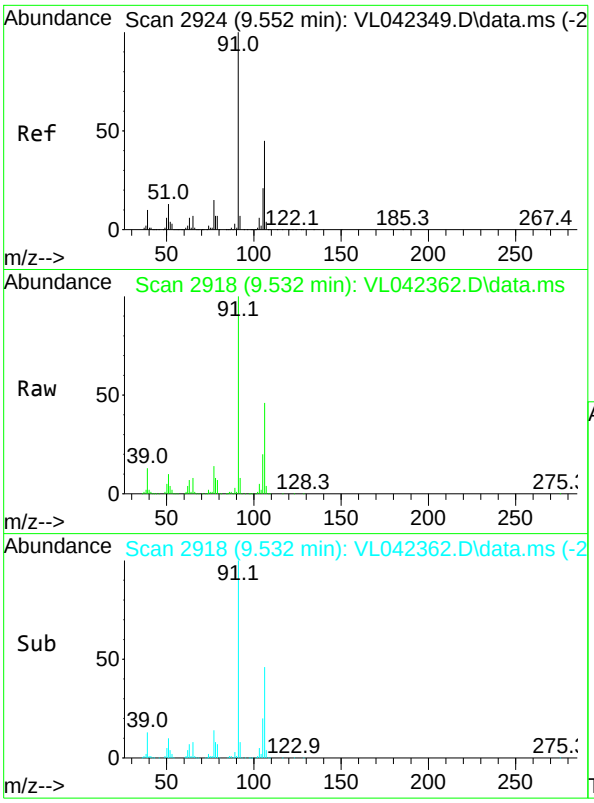


#58
Ethyl Benzene
Concen: 0.948 ppbv
RT: 9.354 min Scan# 2863
Delta R.T. -0.000 min
Lab File: VL042362.D
Acq: 17 Apr 2025 17:51

Tgt Ion: 91 Resp: 57094

Ion	Ratio	Lower	Upper
91	100		
106	29.0	23.0	34.4





#59
m/p-Xylene
Concen: 9.248 ppbv
RT: 9.532 min Scan# 2
Delta R.T. -0.019 min
Lab File: VL042362.D
Acq: 17 Apr 2025 17:51

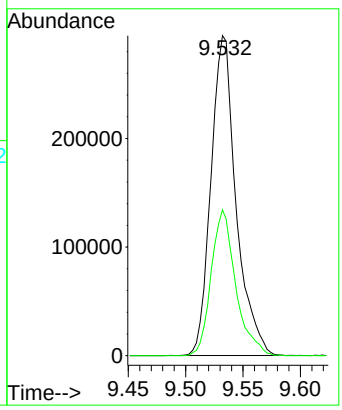
Tgt Ion: 91 Resp: 44853

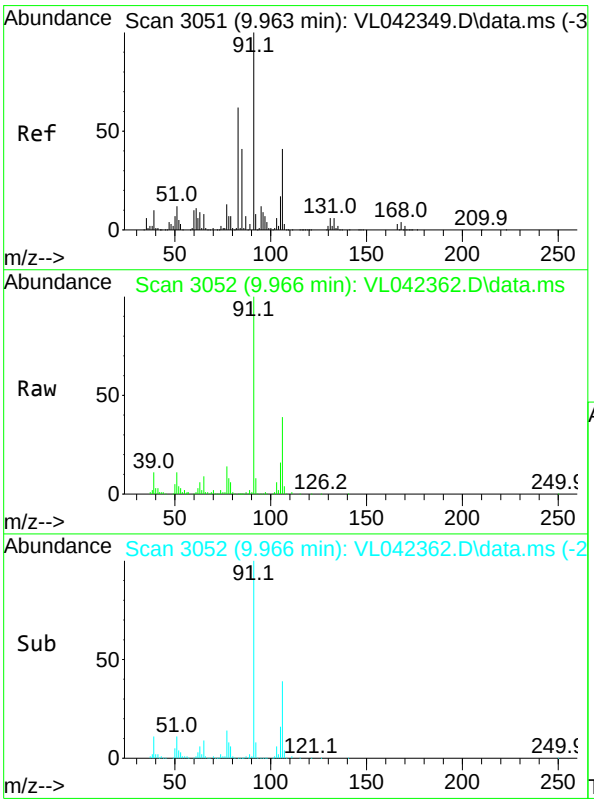
Ion	Ratio	Lower	Upper
91	100		
106	44.6	35.4	53.2

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025DUP

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Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

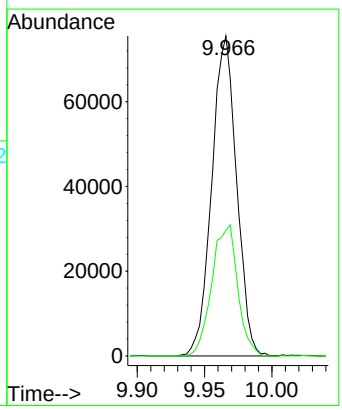


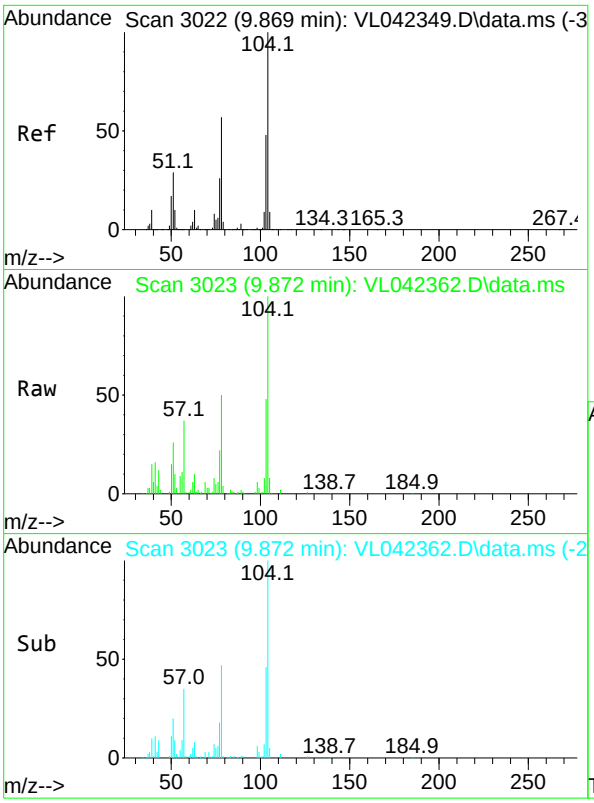


#60
o-Xylene
Concen: 1.983 ppbv
RT: 9.966 min Scan# 3052
Delta R.T. 0.003 min
Lab File: VL042362.D
Acq: 17 Apr 2025 17:51

Tgt Ion: 91 Resp: 96845

Ion	Ratio	Lower	Upper
91	100		
106	42.5	21.1	63.4

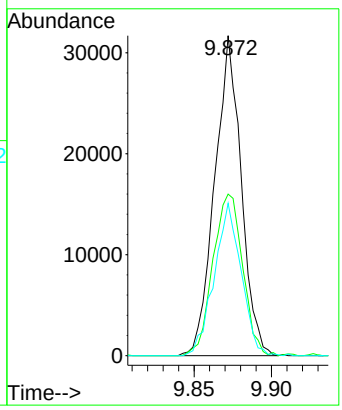




#61
Styrene
Concen: 1.614 ppbv
RT: 9.872 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042362.D
Acq: 17 Apr 2025 17:51

Tgt Ion:104 Resp: 3763

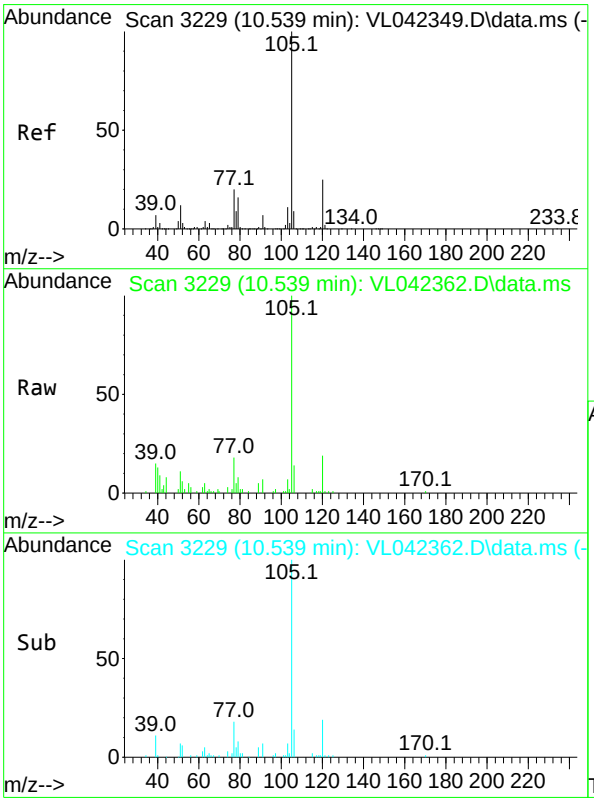
Ion	Ratio	Lower	Upper
104	100		
78	57.0	44.6	66.8
103	48.5	37.4	56.0



Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025DUP

Manual Integrations
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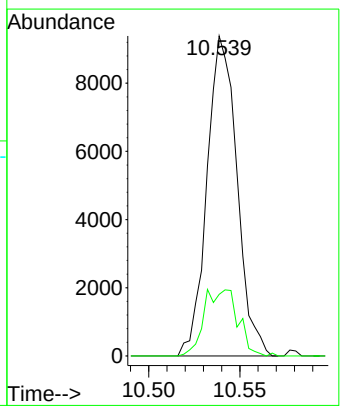
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

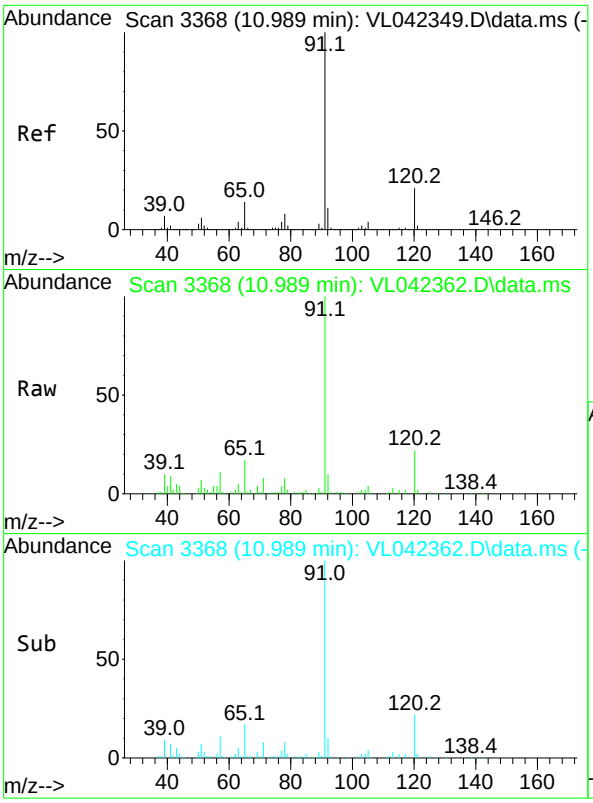


#62
Isopropylbenzene
Concen: 0.150 ppbv
RT: 10.539 min Scan# 3229
Delta R.T. -0.000 min
Lab File: VL042362.D
Acq: 17 Apr 2025 17:51

Tgt Ion:105 Resp: 10762

Ion	Ratio	Lower	Upper
105	100		
120	23.5	19.8	29.8

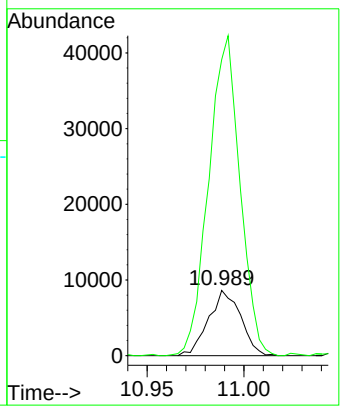




#64
n-propylbenzene
Concen: 0.553 ppbv
RT: 10.989 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042362.D
Acq: 17 Apr 2025 17:51

Tgt Ion:120 Resp: 996

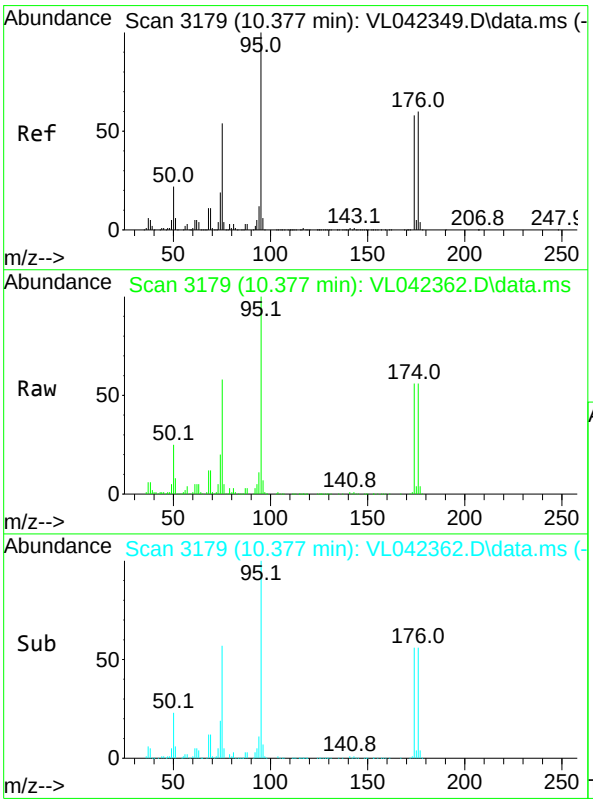
Ion	Ratio	Lower	Upper
120	100		
91	477.7	392.4	588.6



Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025DUP

Manual Integrations
APPROVED

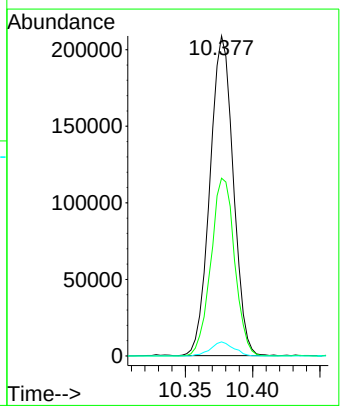
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

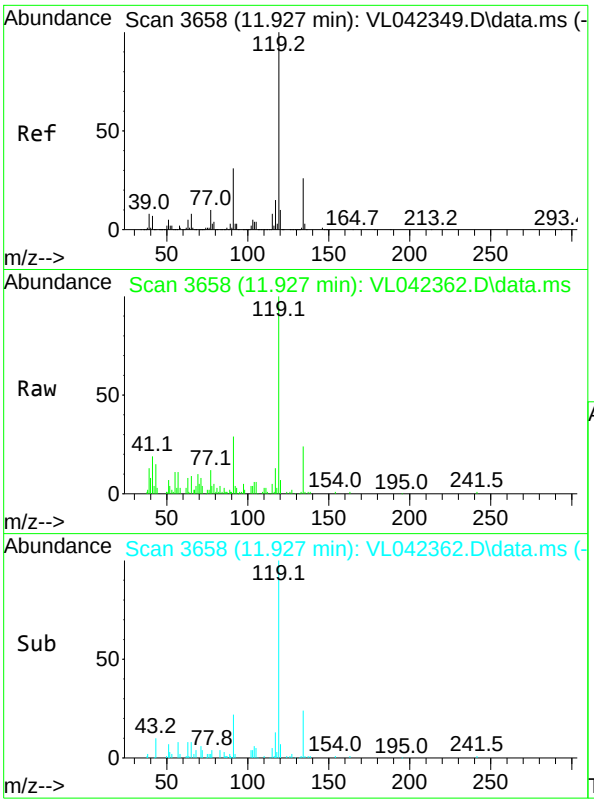


#68
1-Bromo-4-Fluorobenzene
Concen: 10.067 ppbv
RT: 10.377 min Scan# 3179
Delta R.T. -0.000 min
Lab File: VL042362.D
Acq: 17 Apr 2025 17:51

Tgt Ion: 95 Resp: 251359

Ion	Ratio	Lower	Upper
95	100		
174	56.6	48.5	72.7
175	4.3	3.7	5.5





#69
p-Isopropyltoluene
Concen: 0.160 ppbv
RT: 11.927 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042362.D
Acq: 17 Apr 2025 17:51

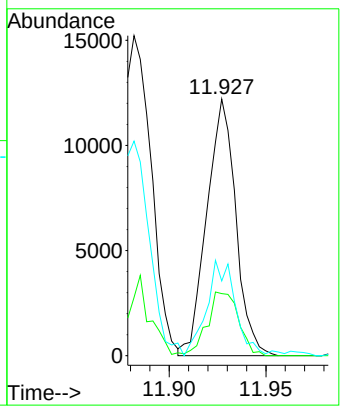
Tgt Ion:119 Resp: 1272

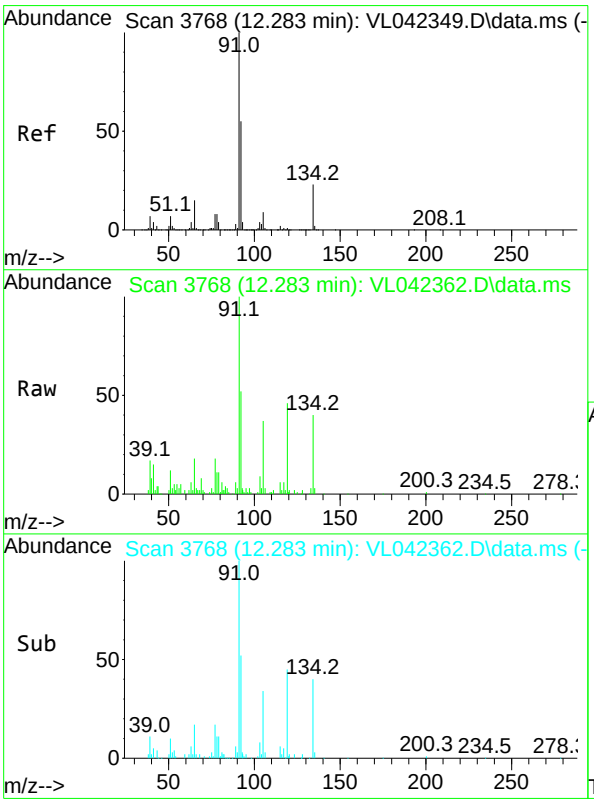
Ion	Ratio	Lower	Upper
119	100		
134	26.7	20.0	30.0
91	35.9	24.4	36.6

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025DUP

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

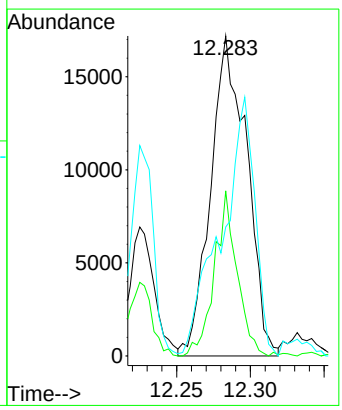


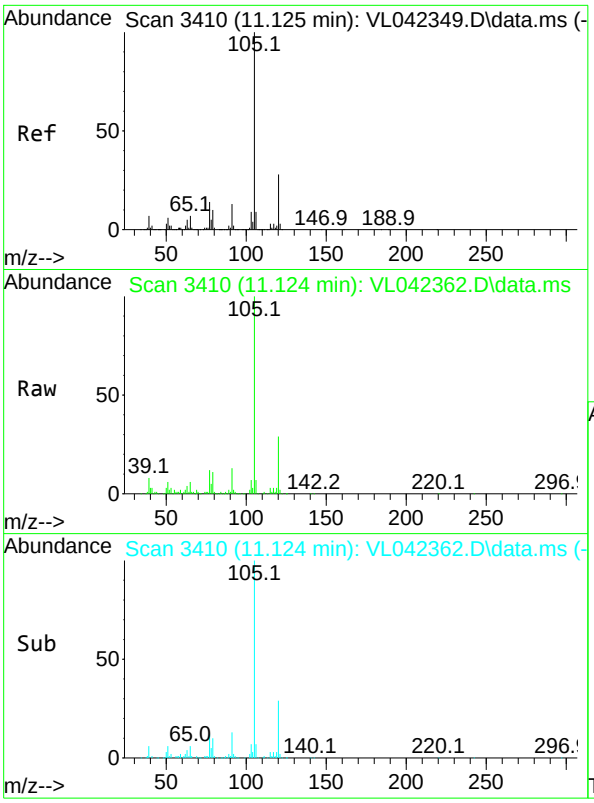


#70
n-Butylbenzene
Concen: 0.353 ppbv
RT: 12.283 min Scan# 3768
Delta R.T. -0.000 min
Lab File: VL042362.D
Acq: 17 Apr 2025 17:51

Tgt Ion: 91 Resp: 29311

Ion	Ratio	Lower	Upper
91	100		
92	32.6	44.2	66.4#
134	78.8	18.2	27.4#

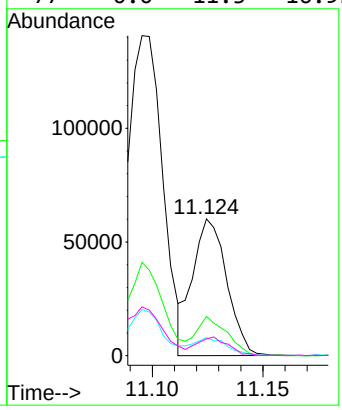




#72
4-Ethyltoluene
Concen: 1.088 ppbv
RT: 11.124 min Scan# 34
Delta R.T. -0.000 min
Lab File: VL042362.D
Acq: 17 Apr 2025 17:51

Tgt Ion:105 Resp: 6493

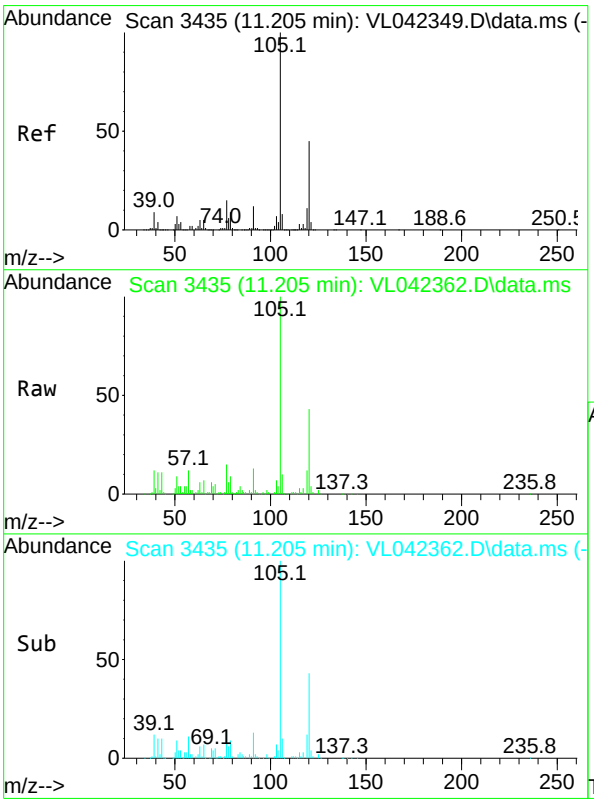
Ion	Ratio	Lower	Upper
105	100		
120	0.0	23.2	34.8#
91	0.0	10.4	15.6#
77	0.0	11.3	16.9#



Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025DUP

Manual Integrations
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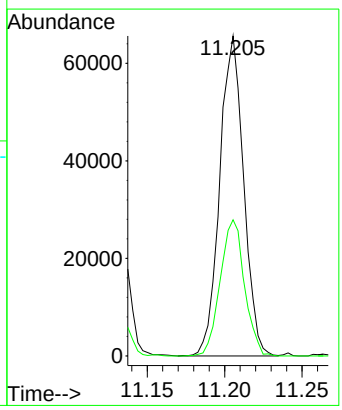
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

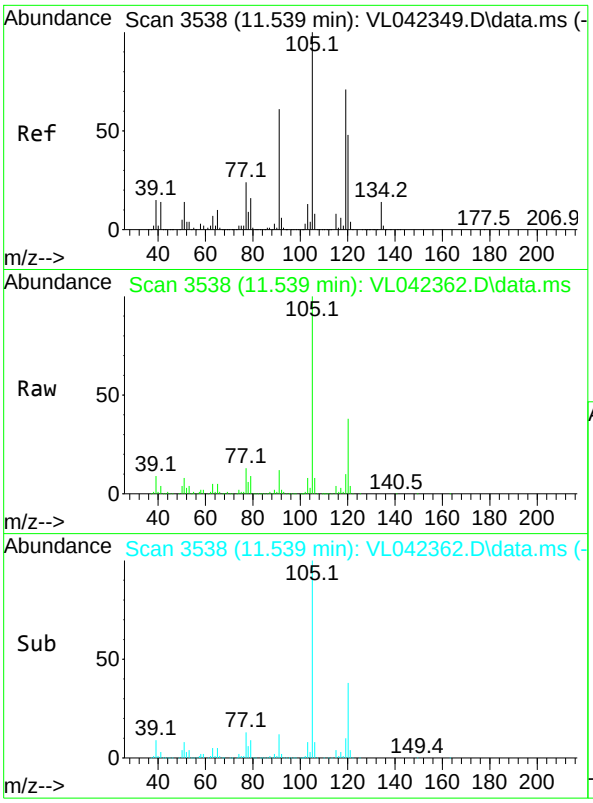


#73
1,3,5-Trimethylbenzene
Concen: 1.336 ppbv
RT: 11.205 min Scan# 3435
Delta R.T. -0.000 min
Lab File: VL042362.D
Acq: 17 Apr 2025 17:51

Tgt Ion:105 Resp: 70431

Ion	Ratio	Lower	Upper
105	100		
120	42.6	35.6	53.4

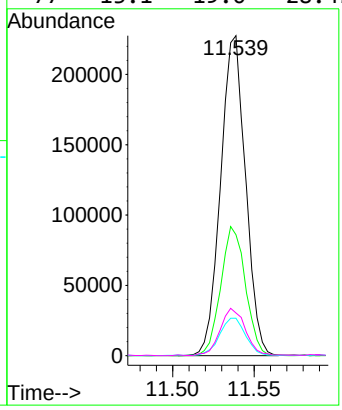




#74
1,2,4-Trimethylbenzene
Concen: 3.931 ppbv
RT: 11.539 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042362.D
Acq: 17 Apr 2025 17:51

Tgt Ion:105 Resp: 24201

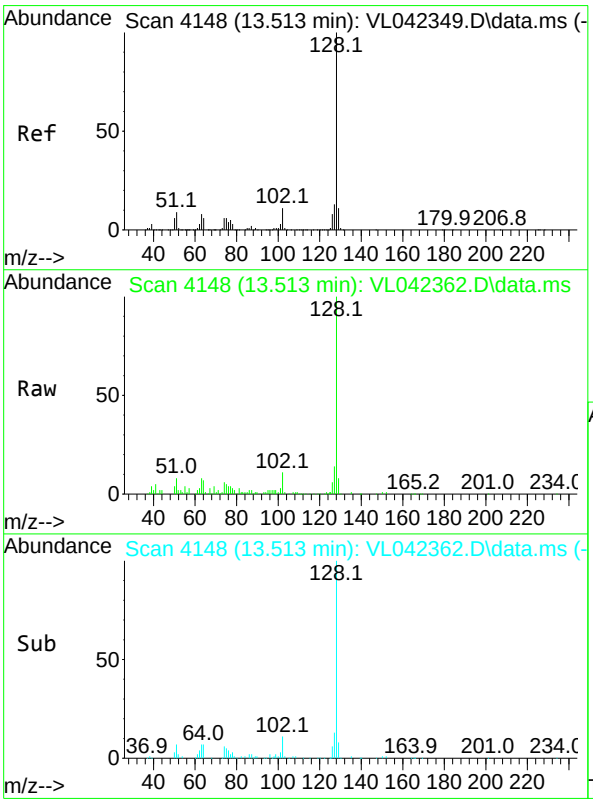
Ion	Ratio	Lower	Upper
105	100		
120	37.8	38.1	57.1#
91	11.6	48.8	73.2#
77	13.1	19.0	28.4#



Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025DUP

Manual Integrations
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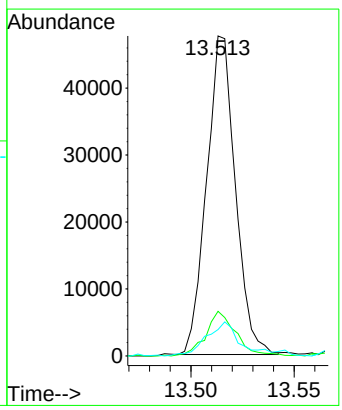
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

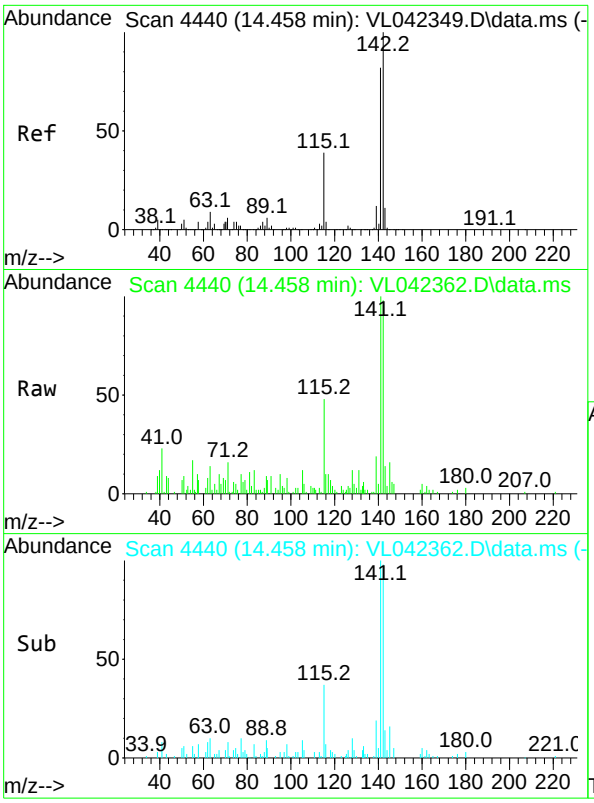


#79
Naphthalene
Concen: 0.626 ppbv
RT: 13.513 min Scan# 4148
Delta R.T. -0.000 min
Lab File: VL042362.D
Acq: 17 Apr 2025 17:51

Tgt Ion:128 Resp: 46070

Ion	Ratio	Lower	Upper
128	100		
127	13.7	10.6	15.8
129	7.6	8.6	12.8#

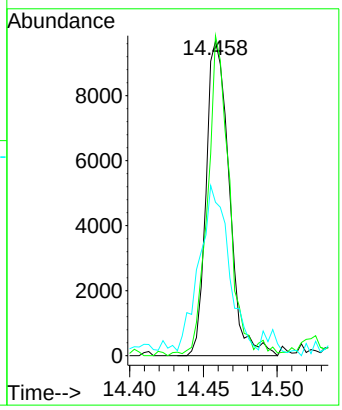




#80
Naphthalene,2-methyl-
Concen: 0.250 ppbv m
RT: 14.458 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042362.D
Acq: 17 Apr 2025 17:51

Tgt Ion:142 Resp: 1050

Ion	Ratio	Lower	Upper
142	100		
141	66.4	66.8	100.2#
115	32.9	33.4	50.2#



Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025DUP

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

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Manual Integration Report

Sequence:	vl041725	Instrument	MSVOA_l

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICCC010	VL042349.D	m/p-Xylene	SAM	4/18/2025 4:19:07 PM	MMDadoda	4/18/2025 10:45:20 PM	Peak Integrated by Software
VSTDICC002	VL042350.D	1,4-Dioxane	SAM	4/18/2025 4:19:12 PM	MMDadoda	4/18/2025 10:45:17 PM	Peak Integrated by Software
VSTDICC002	VL042350.D	cis-1,3-Dichloropropene	SAM	4/18/2025 4:19:12 PM	MMDadoda	4/18/2025 10:45:17 PM	Peak Integrated by Software
VSTDICC002	VL042350.D	Ethanol	SAM	4/18/2025 4:19:12 PM	MMDadoda	4/18/2025 10:45:17 PM	Peak Integrated by Software
VSTDICC002	VL042350.D	Heptane	SAM	4/18/2025 4:19:12 PM	MMDadoda	4/18/2025 10:45:17 PM	Peak Integrated by Software
VSTDICC002	VL042350.D	m/p-Xylene	SAM	4/18/2025 4:19:12 PM	MMDadoda	4/18/2025 10:45:17 PM	Peak Integrated by Software
VSTDICC002	VL042350.D	Trichloroethene	SAM	4/18/2025 4:19:12 PM	MMDadoda	4/18/2025 10:45:17 PM	Peak Integrated by Software
VSTDICC001	VL042351.D	1,1,2-Trichloroethane	SAM	4/18/2025 4:19:17 PM	MMDadoda	4/18/2025 10:45:15 PM	Peak Integrated by Software
VSTDICC001	VL042351.D	1,3-Butadiene	SAM	4/18/2025 4:19:17 PM	MMDadoda	4/18/2025 10:45:15 PM	Peak Integrated by Software
VSTDICC001	VL042351.D	1,4-Dioxane	SAM	4/18/2025 4:19:17 PM	MMDadoda	4/18/2025 10:45:15 PM	Peak Integrated by Software
VSTDICC001	VL042351.D	2,2,4-Trimethylpentane	SAM	4/18/2025 4:19:17 PM	MMDadoda	4/18/2025 10:45:15 PM	Peak Integrated by Software
VSTDICC001	VL042351.D	cis-1,3-Dichloropropene	SAM	4/18/2025 4:19:17 PM	MMDadoda	4/18/2025 10:45:15 PM	Peak Integrated by Software
VSTDICC001	VL042351.D	Cyclohexane	SAM	4/18/2025 4:19:17 PM	MMDadoda	4/18/2025 10:45:15 PM	Peak Integrated by Software

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Manual Integration Report

Sequence:	vl041725	Instrument	MSVOA_l

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC001	VL042351.D	Ethanol	SAM	4/18/2025 4:19:17 PM	MMDadoda	4/18/2025 10:45:15 PM	Peak Integrated by Software
VSTDICC001	VL042351.D	Heptane	SAM	4/18/2025 4:19:17 PM	MMDadoda	4/18/2025 10:45:15 PM	Peak Integrated by Software
VSTDICC001	VL042351.D	m/p-Xylene	SAM	4/18/2025 4:19:17 PM	MMDadoda	4/18/2025 10:45:15 PM	Peak Integrated by Software
VSTDICC001	VL042351.D	Methyl Methacrylate	SAM	4/18/2025 4:19:17 PM	MMDadoda	4/18/2025 10:45:15 PM	Peak Integrated by Software
VSTDICC001	VL042351.D	t-1,3-Dichloropropene	SAM	4/18/2025 4:19:17 PM	MMDadoda	4/18/2025 10:45:15 PM	Peak Integrated by Software
VSTDICC0.5	VL042352.D	1,1,2-Trichloroethane	SAM	4/18/2025 4:20:33 PM	MMDadoda	4/18/2025 10:45:07 PM	Peak Integrated by Software
VSTDICC0.5	VL042352.D	1,2-Dichloropropane	SAM	4/18/2025 4:20:33 PM	MMDadoda	4/18/2025 10:45:07 PM	Peak Integrated by Software
VSTDICC0.5	VL042352.D	1,4-Dioxane	SAM	4/18/2025 4:20:33 PM	MMDadoda	4/18/2025 10:45:07 PM	Peak Integrated by Software
VSTDICC0.5	VL042352.D	4-Methyl-2-Pentanone	SAM	4/18/2025 4:20:33 PM	MMDadoda	4/18/2025 10:45:07 PM	Peak Integrated by Software
VSTDICC0.5	VL042352.D	Chlorobenzene	SAM	4/18/2025 4:20:33 PM	MMDadoda	4/18/2025 10:45:07 PM	Peak Integrated by Software
VSTDICC0.5	VL042352.D	cis-1,3-Dichloropropene	SAM	4/18/2025 4:20:33 PM	MMDadoda	4/18/2025 10:45:07 PM	Peak Integrated by Software
VSTDICC0.5	VL042352.D	Ethanol	SAM	4/18/2025 4:20:33 PM	MMDadoda	4/18/2025 10:45:07 PM	Peak Integrated by Software
VSTDICC0.5	VL042352.D	Heptane	SAM	4/18/2025 4:20:33 PM	MMDadoda	4/18/2025 10:45:07 PM	Peak Integrated by Software

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Manual Integration Report

Sequence:	vl041725	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC0.5	VL042352.D	m/p-Xylene	SAM	4/18/2025 4:20:33 PM	MMDadoda	4/18/2025 10:45:07 PM	Peak Integrated by Software
VSTDICC0.5	VL042352.D	Methyl Methacrylate	SAM	4/18/2025 4:20:33 PM	MMDadoda	4/18/2025 10:45:07 PM	Peak Integrated by Software
VSTDICC0.5	VL042352.D	t-1,3-Dichloropropene	SAM	4/18/2025 4:20:33 PM	MMDadoda	4/18/2025 10:45:07 PM	Peak Integrated by Software
VSTDICC0.5	VL042352.D	Tetrahydrofuran	SAM	4/18/2025 4:20:33 PM	MMDadoda	4/18/2025 10:45:07 PM	Peak Integrated by Software
VSTDICC0.1	VL042353.D	1,1,1-Trichloroethane	SAM	4/18/2025 4:20:37 PM	MMDadoda	4/18/2025 10:45:04 PM	Peak Integrated by Software
VSTDICC0.1	VL042353.D	1,1,2,2-Tetrachloroethane	SAM	4/18/2025 4:20:37 PM	MMDadoda	4/18/2025 10:45:04 PM	Peak Integrated by Software
VSTDICC0.1	VL042353.D	1,2-Dibromoethane	SAM	4/18/2025 4:20:37 PM	MMDadoda	4/18/2025 10:45:04 PM	Peak Integrated by Software
VSTDICC0.1	VL042353.D	Tetrachloroethene	SAM	4/18/2025 4:20:37 PM	MMDadoda	4/18/2025 10:45:04 PM	Peak Integrated by Software
VSTDICC0.1	VL042353.D	Trichloroethene	SAM	4/18/2025 4:20:37 PM	MMDadoda	4/18/2025 10:45:04 PM	Peak Integrated by Software
VSTDICC0.03	VL042354.D	1,1,1-Trichloroethane	SAM	4/18/2025 4:19:24 PM	MMDadoda	4/18/2025 10:45:02 PM	Peak Integrated by Software
VSTDICC0.03	VL042354.D	1,1,2,2-Tetrachloroethane	SAM	4/18/2025 4:19:24 PM	MMDadoda	4/18/2025 10:45:02 PM	Peak Integrated by Software
VSTDICC0.03	VL042354.D	Carbon Tetrachloride	SAM	4/18/2025 4:19:24 PM	MMDadoda	4/18/2025 10:45:02 PM	Peak Integrated by Software
VSTDICC0.03	VL042354.D	Tetrachloroethene	SAM	4/18/2025 4:19:24 PM	MMDadoda	4/18/2025 10:45:02 PM	Peak Integrated by Software

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Manual Integration Report

Sequence:	vl041725	Instrument	MSVOA_l

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC0.03	VL042354.D	Trichloroethene	SAM	4/18/2025 4:19:24 PM	MMDadoda	4/18/2025 10:45:02 PM	Peak Integrated by Software
VSTDICC015	VL042355.D	m/p-Xylene	SAM	4/18/2025 4:21:35 PM	MMDadoda	4/18/2025 10:44:59 PM	Peak Integrated by Software
VSTDICV010	VL042356.D	m/p-Xylene	SAM	4/18/2025 4:20:42 PM	MMDadoda	4/18/2025 10:44:57 PM	Peak Integrated by Software
VL0417ABS01	VL042358.D	m/p-Xylene	SAM	4/18/2025 4:21:39 PM	MMDadoda	4/18/2025 10:44:55 PM	Peak Integrated by Software
Q1668-01	VL042361.D	Carbon Tetrachloride	SAM	4/18/2025 4:19:29 PM	MMDadoda	4/18/2025 10:44:40 PM	Peak Integrated by Software
Q1668-01	VL042361.D	Chlorodifluoromethane	SAM	4/18/2025 4:19:29 PM	MMDadoda	4/18/2025 10:44:40 PM	Peak Integrated by Software
Q1668-01	VL042361.D	Tetrachloroethene	SAM	4/18/2025 4:19:29 PM	MMDadoda	4/18/2025 10:44:40 PM	Peak Integrated by Software
Q1668-01DUP	VL042362.D	2,2,4-Trimethylpentane	SAM	4/18/2025 4:22:32 PM	MMDadoda	4/18/2025 10:44:37 PM	Peak Integrated by Software
Q1668-01DUP	VL042362.D	Carbon Tetrachloride	SAM	4/18/2025 4:22:32 PM	MMDadoda	4/18/2025 10:44:37 PM	Peak Integrated by Software
Q1668-01DUP	VL042362.D	Chlorodifluoromethane	SAM	4/18/2025 4:22:32 PM	MMDadoda	4/18/2025 10:44:37 PM	Peak Integrated by Software
Q1668-01DUP	VL042362.D	Naphthalene,2-methyl-	SAM	4/18/2025 4:22:32 PM	MMDadoda	4/18/2025 10:44:37 PM	Peak Integrated by Software
Q1668-01DUP	VL042362.D	Tetrachloroethene	SAM	4/18/2025 4:22:32 PM	MMDadoda	4/18/2025 10:44:37 PM	Peak Integrated by Software
Q1668-03	VL042363.D	2,2,4-Trimethylpentane	SAM	4/18/2025 4:20:55 PM	MMDadoda	4/18/2025 10:44:34 PM	Peak Integrated by Software

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Manual Integration Report

Sequence:	vl041725	Instrument	MSVOA_l

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q1668-03	VL042363.D	Carbon Tetrachloride	SAM	4/18/2025 4:20:55 PM	MMDadoda	4/18/2025 10:44:34 PM	Peak Integrated by Software
Q1668-03	VL042363.D	Chlorodifluoromethane	SAM	4/18/2025 4:20:55 PM	MMDadoda	4/18/2025 10:44:34 PM	Peak Integrated by Software
Q1668-03	VL042363.D	Cyclohexane	SAM	4/18/2025 4:20:55 PM	MMDadoda	4/18/2025 10:44:34 PM	Peak Integrated by Software
Q1668-03	VL042363.D	n-Butylbenzene	SAM	4/18/2025 4:20:55 PM	MMDadoda	4/18/2025 10:44:34 PM	Peak Integrated by Software
Q1668-03	VL042363.D	n-propylbenzene	SAM	4/18/2025 4:20:55 PM	MMDadoda	4/18/2025 10:44:34 PM	Peak Integrated by Software
Q1668-03	VL042363.D	Naphthalene,2-methyl-	SAM	4/18/2025 4:20:55 PM	MMDadoda	4/18/2025 10:44:34 PM	Peak Integrated by Software
Q1668-03	VL042363.D	Tetrachloroethene	SAM	4/18/2025 4:20:55 PM	MMDadoda	4/18/2025 10:44:34 PM	Peak Integrated by Software
Q1668-03	VL042363.D	Trichloroethene	SAM	4/18/2025 4:20:55 PM	MMDadoda	4/18/2025 10:44:34 PM	Peak Integrated by Software
Q1668-04	VL042364.D	2,2,4-Trimethylpentane	SAM	4/18/2025 4:21:00 PM	MMDadoda	4/18/2025 10:45:48 PM	Peak Integrated by Software
Q1668-04	VL042364.D	Carbon Tetrachloride	SAM	4/18/2025 4:21:00 PM	MMDadoda	4/18/2025 10:45:48 PM	Peak Integrated by Software
Q1668-04	VL042364.D	Chlorodifluoromethane	SAM	4/18/2025 4:21:00 PM	MMDadoda	4/18/2025 10:45:48 PM	Peak Integrated by Software
Q1668-04	VL042364.D	n-Butylbenzene	SAM	4/18/2025 4:21:00 PM	MMDadoda	4/18/2025 10:45:48 PM	Peak Integrated by Software
Q1668-04	VL042364.D	Propene	SAM	4/18/2025 4:21:00 PM	MMDadoda	4/18/2025 10:45:48 PM	Peak Integrated by Software

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Manual Integration Report

Sequence:	vl041725	Instrument	MSVOA_l

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q1668-04	VL042364.D	Tetrachloroethene	SAM	4/18/2025 4:21:00 PM	MMDadoda	4/18/2025 10:45:48 PM	Peak Integrated by Software
Q1668-02	VL042365.D	2,2,4-Trimethylpentane	SAM	4/18/2025 4:20:14 PM	MMDadoda	4/18/2025 10:44:31 PM	Peak Integrated by Software
Q1668-02	VL042365.D	Benzene	SAM	4/18/2025 4:20:14 PM	MMDadoda	4/18/2025 10:44:31 PM	Peak Integrated by Software
Q1668-02	VL042365.D	Carbon Tetrachloride	SAM	4/18/2025 4:20:14 PM	MMDadoda	4/18/2025 10:44:31 PM	Peak Integrated by Software
Q1668-02	VL042365.D	Chlorodifluoromethane	SAM	4/18/2025 4:20:14 PM	MMDadoda	4/18/2025 10:44:31 PM	Peak Integrated by Software
Q1668-02	VL042365.D	Heptane	SAM	4/18/2025 4:20:14 PM	MMDadoda	4/18/2025 10:44:31 PM	Peak Integrated by Software
Q1668-02	VL042365.D	n-Butylbenzene	SAM	4/18/2025 4:20:14 PM	MMDadoda	4/18/2025 10:44:31 PM	Peak Integrated by Software
Q1668-02	VL042365.D	Naphthalene,2-methyl-	SAM	4/18/2025 4:20:14 PM	MMDadoda	4/18/2025 10:44:31 PM	Peak Integrated by Software
Q1668-02	VL042365.D	Tetrachloroethene	SAM	4/18/2025 4:20:14 PM	MMDadoda	4/18/2025 10:44:31 PM	Peak Integrated by Software
Q1668-02	VL042365.D	Trichlorofluoromethane	SAM	4/18/2025 4:20:14 PM	MMDadoda	4/18/2025 10:44:31 PM	Peak Integrated by Software
Q1668-01DL	VL042374.D	2-Butanone	SAM	4/18/2025 4:22:06 PM	MMDadoda	4/18/2025 10:43:55 PM	Peak Integrated by Software
Q1668-01DL	VL042374.D	Benzene	SAM	4/18/2025 4:22:06 PM	MMDadoda	4/18/2025 10:43:55 PM	Peak Integrated by Software
Q1668-01DL	VL042374.D	Carbon Tetrachloride	SAM	4/18/2025 4:22:06 PM	MMDadoda	4/18/2025 10:43:55 PM	Peak Integrated by Software

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Manual Integration Report

Sequence:	vl041725	Instrument	MSVOA_l

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q1668-01DL	VL042374.D	Heptane	SAM	4/18/2025 4:22:06 PM	MMDadoda	4/18/2025 10:43:55 PM	Peak Integrated by Software
Q1668-01DL	VL042374.D	n-Butylbenzene	SAM	4/18/2025 4:22:06 PM	MMDadoda	4/18/2025 10:43:55 PM	Peak Integrated by Software
Q1668-01DL	VL042374.D	Toluene	SAM	4/18/2025 4:22:06 PM	MMDadoda	4/18/2025 10:43:55 PM	Peak Integrated by Software
Q1668-03DL	VL042375.D	Benzene	SAM	4/18/2025 4:22:02 PM	MMDadoda	4/18/2025 10:43:51 PM	Peak Integrated by Software
Q1668-03DL	VL042375.D	n-Butylbenzene	SAM	4/18/2025 4:22:02 PM	MMDadoda	4/18/2025 10:43:51 PM	Peak Integrated by Software
Q1668-03DL	VL042375.D	Styrene	SAM	4/18/2025 4:22:02 PM	MMDadoda	4/18/2025 10:43:51 PM	Peak Integrated by Software
Q1668-03DL	VL042375.D	Toluene	SAM	4/18/2025 4:22:02 PM	MMDadoda	4/18/2025 10:43:51 PM	Peak Integrated by Software

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Fax : 908 789 8922

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QCBatch ID # VL041725

Review By	Semsettin Yesilyurt	Review On	4/18/2025 4:23:02 PM				
Supervise By	Mahesh Dadoda	Supervise On	4/18/2025 10:46:12 PM				
SubDirectory	VL041725	HP Acquire Method	TO15AIR.M	HP Processing Method	VL041725AIR.M		

STD. NAME	STD REF.#
Tune/Reschk	AP2590
Initial Calibration Stds	AP2598,AP2599,AP2600
CCC	AP2598
Internal Standard/PEM	AP2590
ICV/I.BLK	AP2601
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VL042348.D	17 Apr 2025 07:50	SY/MD	Ok
2	VSTDICCC010	VL042349.D	17 Apr 2025 09:44	SY/MD	Ok,M
3	VSTDICC002	VL042350.D	17 Apr 2025 10:17	SY/MD	Ok,M
4	VSTDICC001	VL042351.D	17 Apr 2025 10:48	SY/MD	Ok,M
5	VSTDICC0.5	VL042352.D	17 Apr 2025 11:19	SY/MD	Ok,M
6	VSTDICC0.1	VL042353.D	17 Apr 2025 11:50	SY/MD	Ok,M
7	VSTDICC0.03	VL042354.D	17 Apr 2025 12:22	SY/MD	Ok,M
8	VSTDICC015	VL042355.D	17 Apr 2025 12:54	SY/MD	Ok,M
9	VSTDICV010	VL042356.D	17 Apr 2025 13:43	SY/MD	Ok,M
10	VL0417ABL01	VL042357.D	17 Apr 2025 14:23	SY/MD	Ok
11	VL0417ABS01	VL042358.D	17 Apr 2025 15:39	SY/MD	Ok,M
12	Q1665-15	VL042359.D	17 Apr 2025 16:12	SY/MD	Dilution
13	Q1665-15DL	VL042360.D	17 Apr 2025 16:44	SY/MD	Ok,M
14	Q1668-01	VL042361.D	17 Apr 2025 17:17	SY/MD	Dilution
15	Q1668-01DUP	VL042362.D	17 Apr 2025 17:51	SY/MD	Ok,M
16	Q1668-03	VL042363.D	17 Apr 2025 18:24	SY/MD	Dilution
17	Q1668-04	VL042364.D	17 Apr 2025 18:58	SY/MD	Ok,M
18	Q1668-02	VL042365.D	17 Apr 2025 19:31	SY/MD	Ok,M
19	Q1726-01	VL042366.D	17 Apr 2025 20:05	SY/MD	Dilution
20	Q1726-02	VL042367.D	17 Apr 2025 20:38	SY/MD	Dilution
21	Q1726-03	VL042368.D	17 Apr 2025 21:12	SY/MD	Dilution

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Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QCBatch ID # VL041725

Review By	Semsettin Yesilyurt	Review On	4/18/2025 4:23:02 PM				
Supervise By	Mahesh Dadoda	Supervise On	4/18/2025 10:46:12 PM				
SubDirectory	VL041725	HP Acquire Method	TO15AIR.M	HP Processing Method	VL041725AIR.M		

STD. NAME	STD REF.#
Tune/Reschk	AP2590
Initial Calibration Stds	AP2598,AP2599,AP2600
CCC	AP2598
Internal Standard/PEM	AP2590
ICV/I.BLK	AP2601
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	Q1726-04	VL042369.D	17 Apr 2025 21:45	SY/MD	Dilution
23	Q1726-05	VL042370.D	17 Apr 2025 22:19	SY/MD	Dilution
24	Q1726-06	VL042371.D	17 Apr 2025 22:52	SY/MD	Dilution
25	Q1726-07	VL042372.D	17 Apr 2025 23:26	SY/MD	Dilution
26	Q1726-07DL	VL042373.D	17 Apr 2025 23:57	SY/MD	Dilution
27	Q1668-01DL	VL042374.D	18 Apr 2025 00:28	SY/MD	Ok,M
28	Q1668-03DL	VL042375.D	18 Apr 2025 00:59	SY/MD	Ok,M
29	Q1726-01DL	VL042376.D	18 Apr 2025 01:30	SY/MD	Dilution
30	Q1726-02DL	VL042377.D	18 Apr 2025 02:01	SY/MD	Dilution
31	Q1726-03DL	VL042378.D	18 Apr 2025 02:32	SY/MD	Dilution
32	Q1726-04DL	VL042379.D	18 Apr 2025 03:03	SY/MD	Dilution
33	Q1726-05DL	VL042380.D	18 Apr 2025 03:34	SY/MD	Dilution
34	Q1726-06DL	VL042381.D	18 Apr 2025 04:05	SY/MD	Dilution

M : Manual Integration

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Fax : 908 789 8922

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QCBatch ID # VL041725

Review By	Semsettin Yesilyurt	Review On	4/18/2025 4:23:02 PM		
Supervise By	Mahesh Dadoda	Supervise On	4/18/2025 10:46:12 PM		
SubDirectory	VL041725	HP Acquire Method	TO15AIR.M	HP Processing Method	VL041725AIR.M

STD. NAME	STD REF.#
Tune/Reschk	AP2590
Initial Calibration Stds	AP2598,AP2599,AP2600
CCC	AP2598
Internal Standard/PEM	AP2590
ICV/I.BLK	AP2601
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VL042348.D	17 Apr 2025 07:50		SY/MD	Ok
2	VSTDICCC010	VSTDICCC010	VL042349.D	17 Apr 2025 09:44		SY/MD	Ok,M
3	VSTDICC002	VSTDICC002	VL042350.D	17 Apr 2025 10:17		SY/MD	Ok,M
4	VSTDICC001	VSTDICC001	VL042351.D	17 Apr 2025 10:48		SY/MD	Ok,M
5	VSTDICC0.5	VSTDICC0.5	VL042352.D	17 Apr 2025 11:19		SY/MD	Ok,M
6	VSTDICC0.1	VSTDICC0.1	VL042353.D	17 Apr 2025 11:50		SY/MD	Ok,M
7	VSTDICC0.03	VSTDICC0.03	VL042354.D	17 Apr 2025 12:22		SY/MD	Ok,M
8	VSTDICC015	VSTDICC015	VL042355.D	17 Apr 2025 12:54		SY/MD	Ok,M
9	VSTDICV010	ICVVL041725	VL042356.D	17 Apr 2025 13:43		SY/MD	Ok,M
10	VL0417ABL01	VL0417ABL01	VL042357.D	17 Apr 2025 14:23		SY/MD	Ok
11	VL0417ABS01	VL0417ABS01	VL042358.D	17 Apr 2025 15:39		SY/MD	Ok,M
12	Q1665-15	IA-B14-1-3242025	VL042359.D	17 Apr 2025 16:12	Need 10X	SY/MD	Dilution
13	Q1665-15DL	IA-B14-1-3242025DL	VL042360.D	17 Apr 2025 16:44		SY/MD	Ok,M
14	Q1668-01	IA-B1-4-3252025	VL042361.D	17 Apr 2025 17:17	Need 4X	SY/MD	Dilution
15	Q1668-01DUP	IA-B1-4-3252025DUP	VL042362.D	17 Apr 2025 17:51		SY/MD	Ok,M
16	Q1668-03	IA-B1-3-3252025	VL042363.D	17 Apr 2025 18:24	Need 4X	SY/MD	Dilution
17	Q1668-04	IA-B1-1-3252025	VL042364.D	17 Apr 2025 18:58		SY/MD	Ok,M
18	Q1668-02	IA-B1-2-3252025	VL042365.D	17 Apr 2025 19:31		SY/MD	Ok,M

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Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QCBatch ID # VL041725

Review By	Semsettin Yesilyurt	Review On	4/18/2025 4:23:02 PM		
Supervise By	Mahesh Dadoda	Supervise On	4/18/2025 10:46:12 PM		
SubDirectory	VL041725	HP Acquire Method	TO15AIR.M	HP Processing Method	VL041725AIR.M

STD. NAME	STD REF.#
Tune/Reschk	AP2590
Initial Calibration Stds	AP2598,AP2599,AP2600
CCC	AP2598
Internal Standard/PEM	AP2590
ICV/I.BLK	AP2601
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	Q1726-01	IA-DUP-3-03312025	VL042366.D	17 Apr 2025 20:05	Need 20X	SY/MD	Dilution
20	Q1726-02	IA-B2-6-03312025	VL042367.D	17 Apr 2025 20:38	Need 20X	SY/MD	Dilution
21	Q1726-03	IA-B2-2-03312025	VL042368.D	17 Apr 2025 21:12	Need 20X	SY/MD	Dilution
22	Q1726-04	IA-B2-5-03312025	VL042369.D	17 Apr 2025 21:45	Need 20X	SY/MD	Dilution
23	Q1726-05	IA-B2-1-03312025	VL042370.D	17 Apr 2025 22:19	Need 20X	SY/MD	Dilution
24	Q1726-06	IA-B2-3-03312025	VL042371.D	17 Apr 2025 22:52	Need 20X	SY/MD	Dilution
25	Q1726-07	IA-B2-4-03312025	VL042372.D	17 Apr 2025 23:26	Need 20X	SY/MD	Dilution
26	Q1726-07DL	IA-B2-4-03312025DL	VL042373.D	17 Apr 2025 23:57	Need 40X	SY/MD	Dilution
27	Q1668-01DL	IA-B1-4-3252025DL	VL042374.D	18 Apr 2025 00:28		SY/MD	Ok,M
28	Q1668-03DL	IA-B1-3-3252025DL	VL042375.D	18 Apr 2025 00:59		SY/MD	Ok,M
29	Q1726-01DL	IA-DUP-3-03312025DL	VL042376.D	18 Apr 2025 01:30	Need 40X	SY/MD	Dilution
30	Q1726-02DL	IA-B2-6-03312025DL	VL042377.D	18 Apr 2025 02:01	Need 40X	SY/MD	Dilution
31	Q1726-03DL	IA-B2-2-03312025DL	VL042378.D	18 Apr 2025 02:32	Need 100X	SY/MD	Dilution
32	Q1726-04DL	IA-B2-5-03312025DL	VL042379.D	18 Apr 2025 03:03	Need 40X	SY/MD	Dilution
33	Q1726-05DL	IA-B2-1-03312025DL	VL042380.D	18 Apr 2025 03:34	Need further dilution	SY/MD	Dilution
34	Q1726-06DL	IA-B2-3-03312025DL	VL042381.D	18 Apr 2025 04:05	Need further dilution	SY/MD	Dilution

M : Manual Integration

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Prep Standard - Chemical Standard Summary

Order ID : Q1668

Test : TO-15

Prepbatch ID :

Sequence ID/Qc Batch ID: vl041725,

Standard ID :
AP2590,AP2598,AP2599,AP2600,AP2601,

Chemical ID :
A1117,A1135,A1136,A1137,

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Fax : 908 789 8922

Air STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
47	Internal Standard/Surrogate Mix-80 ppbv	AP2590	03/21/2025	04/21/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 04/03/2025

FROM 2.40000psi of A1135 + 27.60000psi of A1117 = Final Quantity: 30.000 psi

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2396	TO-15 15 PPBV CAL MIX	AP2598	04/16/2025	05/17/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 04/18/2025

FROM 1455.00000SCCM of A1117 + 45.00000SCCM of A1136 = Final Quantity: 30.000 psi

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Air STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2397	TO-15 -2 PPBV CAL.MIX	AP2599	04/16/2025	05/17/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 04/18/2025

FROM 26.00000psi of A1117 + 4.00000psi of AP2598 = Final Quantity: 30.000 psi

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2668	0.5 PPBV CAL.MIX	AP2600	04/16/2025	05/17/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 04/18/2025

FROM 29.00000psi of A1117 + 1.00000psi of AP2598 = Final Quantity: 30.000 psi

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Air STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2396	TO-15 15 PPBV CAL MIX	AP2601	04/16/2025	05/17/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 04/18/2025

FROM 1455.00000SCCM of A1117 + 45.00000SCCM of A1137 = Final Quantity: 30.000 psi

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
AIR LIQUIDE	365A-49 / AIR, Compressed	90402401186-01	04/01/2026	04/01/2022 / apatel	04/01/2022 / SAM	A1117

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CUSTOMGAS Solutions	TB500009-110 / TO-15 Internal Standard/Surrogate Standard	BC275465	07/16/2025	07/22/2024 / SAM	07/22/2024 / SAM	A1135

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CUSTOMGAS Solutions	TO15-80-6R-07092 / TO-15 Modified (80 comp) in Nitrogen (addition of 2-methylnaphthalene)	040424-003A	07/16/2025	07/25/2024 / SAM	07/22/2024 / SAM	A1136

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CUSTOMGAS Solutions	TO15-80-6R-07092 / TO-15 Modified (80 comp) in Nitrogen (addition of 2-methylnaphthalene)	040424-003B	07/16/2025	07/25/2024 / SAM	07/22/2024 / SAM	A1137

CUSTOMGAS
SOLUTIONS

1750 East Club Boulevard
Durham, NC 27704
Phone: (919) 220-2570
Fax: (919) 220-4540

Certificate of Analysis

Customer:

Chem Tech
284 Sheffield Street
Mountainside, NJ 07092

Tel: (908) 789-8900

Cylinder Number: BC275465
Cylinder Size/CGA: 170/180SS
Fill Pressure: 1815 PSIA
Gas Volume: ~170 liters
Date of Mfg: 07/16/2024
Expiration Date: 07/16/2025

Ship To : Chem Tech
284 Sheffield Street
Mountainside, NJ 07092

Customer Number	Ship VIA	Job No.	Customer PO	Mixture Type
00107092NJ	Best Way	040424-003	240404-10	Gravimetric

Component	Nominal Concentration	Actual Concentration*	Mixture Type
Bromochloromethane	1 ppm	1.014 ppm +/- 0.02 ppm	Gravimetric Master Gas
4-Bromofluorobenzene	1 ppm	1.008 ppm +/- 0.02 ppm	
Chlorobenzene-D5	1 ppm	0.993 ppm +/- 0.02 ppm	
1,4-Difluorbenzene	1 ppm	0.979 ppm +/- 0.02 ppm	
Nitrogen	balance	balance	

NOTES:

Blend Tolerance: +/- 10 %

Analytical Tolerance: +/- 5 %

Traceability: NIST by weight set. NIST Traceability No MT001810.
Internal Standards by analysis

Reactive Mixtures: Analyzed twice with required agreement between analyses of 2%.
Required wait time between analyses of >7 days.

Caution: Do not use below 150 PSIG.

Analyst Name: Joseph A. Ernst

Signature:

QA Signature:

Date: 07/16/2024

*Every effort has been made to establish the actual concentration of the components using master gas blending technology however, Custom Gas Solutions shall have no liability in excess of the established charge for this material.

CUSTOMGAS
SOLUTIONS

1750 East Club Boulevard
Durham, NC 27704
Phone: (919) 220-2570
Fax: (919) 220-4540

Certificate of Analysis

Customer:

ChemTech
284 Sheffield Street
Mountianside, NJ 07092

Cylinder Number: BC917782
Cylinder Size/CGA: 170/180
Fill Pressure: 1815 PSIA
Gas Volume: 110 liters
Date of Mfg: 07/16/2024
Expiration Date: 07/16/2025
Lot Number: 040424-003A

Ship To : Chemtech
284 Sheffield Street
Mountainside, NJ 07092

Customer Number	Ship VIA	Job No.	Customer PO	Mixture Type
00107092NJ	Best Way	040424-003	240404-10	Gravimetric

Component	Nominal Concentration	Actual Concentration*	Mixture Type
Acetone	500 ppb	517 ppb +/- 50 ppb	Gravimetric Master Gas
Acetonitrile	500 ppb	534 ppb +/- 50 ppb	
Acrolein	500 ppb	545 ppb +/- 50 ppb	
Acrylonitrile	500 ppb	539 ppb +/- 50 ppb	
Allyl chloride	500 ppb	509 ppb +/- 50 ppb	
Benzene	500 ppb	483 ppb +/- 50 ppb	
Benzyl Chloride	500 ppb	489 ppb +/- 50 ppb	
Bromodichloromethane	500 ppb	509 ppb +/- 50 ppb	
Bromoform	500 ppb	495 ppb +/- 50 ppb	
1,3-Butadiene	500 ppb	504 ppb +/- 50 ppb	
tert-Butyl alcohol	500 ppb	532 ppb +/- 50 ppb	
n-Butyl benzene	500 ppb	529 ppb +/- 50 ppb	
sec-Butyl benzene	500 ppb	529 ppb +/- 50 ppb	
tert-Butyl benzene	500 ppb	529 ppb +/- 50 ppb	
Carbon disulfide	500 ppb	485 ppb +/- 50 ppb	
Carbon tetrachloride	500 ppb	506 ppb +/- 50 ppb	
Chlorobenzene	500 ppb	491 ppb +/- 50 ppb	
Chlorodibromomethane	500 ppb	488 ppb +/- 50 ppb	
Chloroform	500 ppb	492 ppb +/- 50 ppb	
2-Chlorotoluene	500 ppb	532 ppb +/- 50 ppb	
Cyclohexane	500 ppb	482 ppb +/- 50 ppb	
1,2-Dibromoethane	500 ppb	491 ppb +/- 50 ppb	
1,2-Dichlorobenzene	500 ppb	510 ppb +/- 50 ppb	
1,3-Dichlorobenzene	500 ppb	489 ppb +/- 50 ppb	
1,4-Dichlorobenzene	500 ppb	490 ppb +/- 50 ppb	
Dichlorodifluoromethane (R12)	500 ppb	508 ppb +/- 50 ppb	

1,1-Dichloroethane	500 ppb	492 ppb +/- 50 ppb	
1,2-Dichloroethane	500 ppb	497 ppb +/- 50 ppb	
1,1-Dichlororethylene	500 ppb	493 ppb +/- 50 ppb	
cis 1,2-Dichloroethylene	500 ppb	488 ppb +/- 50 ppb	
trans 1,2-Dichloroethylene	500 ppb	488 ppb +/- 50 ppb	
1,2-Dichloropropane	500 ppb	490 ppb +/- 50 ppb	
cis 1,3-Dichloropropylene	500 ppb	516 ppb +/- 50 ppb	
trans 1,3-Dichloropropylene	500 ppb	466 ppb +/- 50 ppb	
1,2-Dichlorotetrafluoroethane	500 ppb	505 ppb +/- 50 ppb	
1,4-Dioxane	500 ppb	484 ppb +/- 50 ppb	
Ethyl acetate	500 ppb	486 ppb +/- 50 ppb	
Ethyl Alcohol	500 ppb	555 ppb +/- 50 ppb	
Ethyl benzene	500 ppb	497 ppb +/- 50 ppb	
Ethyl Chloride	500 ppb	506 ppb +/- 50 ppb	
4-Ethyltoluene	500 ppb	485 ppb +/- 50 ppb	
n-Heptane	500 ppb	487 ppb +/- 50 ppb	
Hexachloro-1,3-butadiene	500 ppb	489 ppb +/- 50 ppb	
2-Hexanone	500 ppb	490 ppb +/- 50 ppb	
n-Hexane	500 ppb	485 ppb +/- 50 ppb	
Isopropyl alcohol	500 ppb	511 ppb +/- 50 ppb	
Isopropyl benzene	500 ppb	527 ppb +/- 50 ppb	
p-Isopropyl toluene	500 ppb	534 ppb +/- 50 ppb	
Methyl Bromide	500 ppb	505 ppb +/- 50 ppb	
Methyl Chloride	500 ppb	509 ppb +/- 50 ppb	
Methyl ethyl ketone	500 ppb	496 ppb +/- 50 ppb	
Methyl isobutyl ketone	500 ppb	493 ppb +/- 50 ppb	
Methyl methacrylate	500 ppb	532 ppb +/- 50 ppb	
Methyl tertiary butyl ether	500 ppb	483 ppb +/- 50 ppb	
Methylene chloride	500 ppb	498 ppb +/- 50 ppb	
Naphthalene	500 ppb	542 ppb +/- 50 ppb	
n-Propylbenzene	500 ppb	529 ppb +/- 50 ppb	
Propylene	500 ppb	508 ppb +/- 50 ppb	
Styrene	500 ppb	485 ppb +/- 50 ppb	
1,1,1,2-Tetrachloroethane	500 ppb	483 ppb +/- 50 ppb	
1,1,2,2-Tetrachloroethane	500 ppb	534 ppb +/- 50 ppb	
Tetrachloroethylene	500 ppb	487 ppb +/- 50 ppb	
Tetrahydrofuran	500 ppb	535 ppb +/- 50 ppb	
Toluene	500 ppb	491 ppb +/- 50 ppb	
1,2,4-Trichlorobenzene	500 ppb	494 ppb +/- 50 ppb	
1,1,1-Trichloroethane	500 ppb	494 ppb +/- 50 ppb	
1,1,2-Trichloroethane	500 ppb	494 ppb +/- 50 ppb	
Trichloroethylene	500 ppb	488 ppb +/- 50 ppb	
Trichlorofluoromethane	500 ppb	508 ppb +/- 50 ppb	
1,1,2-Trichlorotrifluoroethane	500 ppb	495 ppb +/- 50 ppb	
1,2,4-Trimethylbenzene	500 ppb	494 ppb +/- 50 ppb	
1,3,5-Trimethylbenzene	500 ppb	498 ppb +/- 50 ppb	
2,2,4- Trimethylpentane	500 ppb	489 ppb +/- 50 ppb	
Vinyl acetate	500 ppb	499 ppb +/- 50 ppb	
Vinyl bromide	500 ppb	505 ppb +/- 50 ppb	
Vinyl chloride	500 ppb	507 ppb +/- 50 ppb	
m-Xylene	500 ppb	492 ppb +/- 50 ppb	
o-Xylene	500 ppb	480 ppb +/- 50 ppb	
p-Xylene	500 ppb	486 ppb +/- 50 ppb	
2-Methyl Naphthalene	500 ppb	498 ppb +/- 50 ppb	
R-22	500 ppb	590 ppb +/- 50 ppb	
Nitrogen	balance	balance	

NOTES:	**Blend Tolerance:**	+/- 20 %
	Analytical Tolerance:	+/- 10 %
	Traceability:	NIST by weight set. NIST Traceability No MT001810. Internal Standards by analysis
	Reactive Mixtures:	Analyzed twice with required agreement between analyses of 2%. Required wait time between analyses of >7 days.
	Caution:	Do not use below 150 PSIG.

Analyst Name: Joseph A. Ernst

QA Signature:

Signature:

Date: 07/16/2024

*Every effort has been made to establish the actual concentration of the components using master gas blending technology however, Custom Gas Solutions shall have no liability in excess of the established charge for this material.

CUSTOMGAS
SOLUTIONS

1750 East Club Boulevard
Durham, NC 27704
Phone: (919) 220-2570
Fax: (919) 220-4540

Certificate of Analysis

Customer:

ChemTech
284 Sheffield Street
Mountianside, NJ 07092

Cylinder Number: BC169552
Cylinder Size/CGA: 170/180
Fill Pressure: 1815 PSIA
Gas Volume: 110 liters
Date of Mfg: 07/16/2024
Expiration Date: 07/16/2025
Lot Number: 040424-003B

Ship To : Chemtech
284 Sheffield Street
Mountainside, NJ 07092

Customer Number	Ship VIA	Job No.	Customer PO	Mixture Type
00107092NJ	Best Way	040424-003	240404-10	Gravimetric

Component	Nominal Concentration	Actual Concentration*	Mixture Type
Acetone	500 ppb	502 ppb +/- 50 ppb	Gravimetric Master Gas
Acetonitrile	500 ppb	530 ppb +/- 50 ppb	
Acrolein	500 ppb	540 ppb +/- 50 ppb	
Acrylonitrile	500 ppb	535 ppb +/- 50 ppb	
Allyl chloride	500 ppb	494 ppb +/- 50 ppb	
Benzene	500 ppb	470 ppb +/- 50 ppb	
Benzyl Chloride	500 ppb	476 ppb +/- 50 ppb	
Bromodichloromethane	500 ppb	495 ppb +/- 50 ppb	
Bromoform	500 ppb	481 ppb +/- 50 ppb	
1,3-Butadiene	500 ppb	490 ppb +/- 50 ppb	
tert-Butyl alcohol	500 ppb	527 ppb +/- 50 ppb	
n-Butyl benzene	500 ppb	525 ppb +/- 50 ppb	
sec-Butyl benzene	500 ppb	525 ppb +/- 50 ppb	
tert-Butyl benzene	500 ppb	525 ppb +/- 50 ppb	
Carbon disulfide	500 ppb	471 ppb +/- 50 ppb	
Carbon tetrachloride	500 ppb	492 ppb +/- 50 ppb	
Chlorobenzene	500 ppb	478 ppb +/- 50 ppb	
Chlorodibromomethane	500 ppb	474 ppb +/- 50 ppb	
Chloroform	500 ppb	478 ppb +/- 50 ppb	
2-Chlorotoluene	500 ppb	527 ppb +/- 50 ppb	
Cyclohexane	500 ppb	469 ppb +/- 50 ppb	
1,2-Dibromoethane	500 ppb	477 ppb +/- 50 ppb	
1,2-Dichlorobenzene	500 ppb	495 ppb +/- 50 ppb	
1,3-Dichlorobenzene	500 ppb	475 ppb +/- 50 ppb	
1,4-Dichlorobenzene	500 ppb	476 ppb +/- 50 ppb	
Dichlorodifluoromethane (R12)	500 ppb	494 ppb +/- 50 ppb	

1,1-Dichloroethane	500 ppb	478 ppb +/- 50 ppb	
1,2-Dichloroethane	500 ppb	483 ppb +/- 50 ppb	
1,1-Dichlororethylene	500 ppb	479 ppb +/- 50 ppb	
cis 1,2-Dichloroethylene	500 ppb	475 ppb +/- 50 ppb	
trans 1,2-Dichloroethylene	500 ppb	475 ppb +/- 50 ppb	
1,2-Dichloropropane	500 ppb	476 ppb +/- 50 ppb	
cis 1,3-Dichloropropylene	500 ppb	501 ppb +/- 50 ppb	
trans 1,3-Dichloropropylene	500 ppb	466 ppb +/- 50 ppb	
1,2-Dichlorotetrafluoroethane	500 ppb	491 ppb +/- 50 ppb	
1,4-Dioxane	500 ppb	470 ppb +/- 50 ppb	
Ethyl acetate	500 ppb	472 ppb +/- 50 ppb	
Ethyl Alcohol	500 ppb	550 ppb +/- 50 ppb	
Ethyl benzene	500 ppb	483 ppb +/- 50 ppb	
Ethyl Chloride	500 ppb	492 ppb +/- 50 ppb	
4-Ethyltoluene	500 ppb	472 ppb +/- 50 ppb	
n-Heptane	500 ppb	473 ppb +/- 50 ppb	
Hexachloro-1,3-butadiene	500 ppb	475 ppb +/- 50 ppb	
2-Hexanone	500 ppb	477 ppb +/- 50 ppb	
n-Hexane	500 ppb	471 ppb +/- 50 ppb	
Isopropyl alcohol	500 ppb	497 ppb +/- 50 ppb	
Isopropyl benzene	500 ppb	522 ppb +/- 50 ppb	
p-Isopropyl toluene	500 ppb	530 ppb +/- 50 ppb	
Methyl Bromide	500 ppb	491 ppb +/- 50 ppb	
Methyl Chloride	500 ppb	494 ppb +/- 50 ppb	
Methyl ethyl ketone	500 ppb	482 ppb +/- 50 ppb	
Methyl isobutyl ketone	500 ppb	479 ppb +/- 50 ppb	
Methyl methacrylate	500 ppb	527 ppb +/- 50 ppb	
Methyl tertiary butyl ether	500 ppb	470 ppb +/- 50 ppb	
Methylene chloride	500 ppb	484 ppb +/- 50 ppb	
Naphthalene	500 ppb	537 ppb +/- 50 ppb	
n-Propylbenzene	500 ppb	525 ppb +/- 50 ppb	
Propylene	500 ppb	494 ppb +/- 50 ppb	
Styrene	500 ppb	472 ppb +/- 50 ppb	
1,1,1,2-Tetrachloroethane	500 ppb	530 ppb +/- 50 ppb	
1,1,2,2-Tetrachloroethane	500 ppb	470 ppb +/- 50 ppb	
Tetrachloroethylene	500 ppb	473 ppb +/- 50 ppb	
Tetrahydrofuran	500 ppb	520 ppb +/- 50 ppb	
Toluene	500 ppb	477 ppb +/- 50 ppb	
1,2,4-Trichlorobenzene	500 ppb	480 ppb +/- 50 ppb	
1,1,1-Trichloroethane	500 ppb	480 ppb +/- 50 ppb	
1,1,2-Trichloroethane	500 ppb	481 ppb +/- 50 ppb	
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1,1,2-Trichlorotrifluoroethane	500 ppb	481 ppb +/- 50 ppb	
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1.3,5-Trimethylbenzene	500 ppb	484 ppb +/- 50 ppb	
2,2,4- Trimethylpentane	500 ppb	475 ppb +/- 50 ppb	
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NOTES:	**Blend Tolerance:**	+/- 20 %
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Analyst Name: Joseph A. Ernst

QA Signature:

Signature:

Date: 07/16/2024

*Every effort has been made to establish the actual concentration of the components using master gas blending technology however, Custom Gas Solutions shall have no liability in excess of the established charge for this material.

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Process Report

Order ID : Q1668

Date	Bottle ID	Lab Sample Number	InComing Vacuum	Canister ID	Can Size	Reg ID	Reg Size	Batch Code	Certification ID
03/31/2025	B2502051	Q1668-04	-4.7	10601	6 L	10110		C2501002	**VL041876.D** Seq :VL010925 TUNE : VL041857.D ICAL : VL041864.D CCAL : VL041859.D MB : VL041869.D
03/31/2025	B2502051	Q1668-01	-5.9	10588	6 L	10637		C2501004	**VL041966.D** Seq :vl020325 TUNE : VL041957.D ICAL : VL041894.D CCAL : VL041958.D MB : VL041960.D
03/31/2025	B2502051	Q1668-02	-5.5	10269	6 L	10529		C2502002	**VL042052.D** Seq :vl022625 TUNE : VL042049.D ICAL : VL042046.D CCAL : VL042050.D MB : VL042051.D
03/31/2025	B2502051	Q1668-03	-5.5	10060	6 L	10610		C2503001	**VL042143.D** Seq :VL031425 TUNE : VL042140.D ICAL : VL042046.D CCAL : VL042141.D MB : VL042142.D

Canister Cleaning

284 Sheffield Street, Mountainside, New Jersey 07092 Phone : 908 789 8900 Fax : 908 789 8922

Canister Batch : C2501002

Type of Canister : 6 L

Cleaning Date : 01/07/2025

Analyst : SAM

Oven Temperature : 125.0 c

Canister	Vaccum After Cleaning ("Hg)	Vaccum After Cleaning Date	Analysis Date	VAC 24Hr ("Hg)	Vaccum After 24hr Date	New Sample Number	QC Canister	File
10326	-30	01/08/2025	01/09/2025	-30	01/09/2025	Q1483-03	10601	VL041876.D
10300	-30	01/08/2025	01/09/2025	-30	01/09/2025	Q1483-04	10601	VL041876.D
10606	-30	01/08/2025	01/09/2025	-30	01/09/2025	Q1450-02	10601	VL041876.D
10604	-30	01/08/2025	01/09/2025	-30	01/09/2025	Q1483-01	10601	VL041876.D
10401	-30	01/08/2025	01/09/2025	-30	01/09/2025	Q1483-02	10601	VL041876.D
10054	-30	01/08/2025	01/09/2025	-30	01/09/2025	Q1506-01	10601	VL041876.D
10601	-30	01/08/2025	01/09/2025	-30	01/09/2025	Q1668-04	10601	VL041876.D
10329	-30	01/08/2025	01/09/2025	-30	01/09/2025	Q1506-02	10601	VL041876.D

Canister Cleaning

284 Sheffield Street, Mountainside, New Jersey 07092 Phone : 908 789 8900 Fax : 908 789 8922

Canister Batch : C2501004

Type of Canister : 6 L

Cleaning Date : 01/28/2025

Analyst : SAM

Oven Temperature : 125.0 c

Canister	Vaccum After Cleaning ("Hg)	Vaccum After Cleaning Date	Analysis Date	VAC 24Hr ("Hg)	Vaccum After 24hr Date	New Sample Number	QC Canister	File
10596	-30	01/29/2025	02/03/2025	-30	01/30/2025	Q1725-06	10439	VL041966.D
10321	-30	01/29/2025	02/03/2025	-30	01/30/2025	Q1533-02	10439	VL041966.D
10296	-30	01/29/2025	02/03/2025	-30	01/30/2025	Q1533-01	10439	VL041966.D
10439	-30	01/29/2025	02/03/2025	-30	01/30/2025	Q1649-02	10439	VL041966.D
10282	-30	01/29/2025	02/03/2025	-30	01/30/2025	Q1669-08	10439	VL041966.D
10588	-30	01/29/2025	02/03/2025	-30	01/30/2025	Q1668-01	10439	VL041966.D
10333	-30	01/29/2025	02/03/2025	-30	01/30/2025	Q1725-08	10439	VL041966.D
10602	-30	01/29/2025	02/03/2025	-30	01/30/2025	Q1755-01	10439	VL041966.D

Canister Cleaning

284 Sheffield Street, Mountainside, New Jersey 07092 Phone : 908 789 8900 Fax : 908 789 8922

Canister Batch : C2502002

Type of Canister : 6 L

Cleaning Date : 02/17/2025

Analyst : SAM

Oven Temperature : 125.0 c

Canister	Vaccum After Cleaning ("Hg)	Vaccum After Cleaning Date	Analysis Date	VAC 24Hr ("Hg)	Vaccum After 24hr Date	New Sample Number	QC Canister	File
10281	-30	02/18/2025	02/26/2025	-30	02/19/2025	Q1665-05	10271	VL042052.D
10592	-30	02/18/2025	02/26/2025	-30	02/19/2025	Q1665-07	10271	VL042052.D
10306	-30	02/18/2025	02/26/2025	-30	02/19/2025	Q1665-22	10271	VL042052.D
10595	-30	02/18/2025	02/26/2025	-30	02/19/2025	Q1665-20	10271	VL042052.D
10198	-30	02/18/2025	02/26/2025	-30	02/19/2025	Q1665-06	10271	VL042052.D
10332	-30	02/18/2025	02/26/2025	-30	02/19/2025	Q1665-21	10271	VL042052.D
10269	-30	02/18/2025	02/26/2025	-30	02/19/2025	Q1668-02	10271	VL042052.D
10271	-30	02/18/2025	02/26/2025	-30	02/19/2025	Q1665-12	10271	VL042052.D

Canister Cleaning

284 Sheffield Street, Mountainside, New Jersey 07092 Phone : 908 789 8900 Fax : 908 789 8922

Canister Batch : C2503001

Type of Canister : 6 L

Cleaning Date : 03/10/2025

Analyst : SAM

Oven Temperature : 125.0 c

Canister	Vaccum After Cleaning ("Hg)	Vaccum After Cleaning Date	Analysis Date	VAC 24Hr ("Hg)	Vaccum After 24hr Date	New Sample Number	QC Canister	File
10445	-30	03/11/2025	03/14/2025	-30	03/12/2025	Q1669-07	10267	VL042143.D
10267	-30	03/11/2025	03/14/2025	-30	03/12/2025	Q1669-04	10267	VL042143.D
10492	-30	03/11/2025	03/14/2025	-30	03/12/2025	Q1665-10	10267	VL042143.D
10606	-30	03/11/2025	03/14/2025	-30	03/12/2025	Q1669-06	10267	VL042143.D
10280	-30	03/11/2025	03/14/2025	-30	03/12/2025	Q1726-02	10267	VL042143.D
10597	-30	03/11/2025	03/14/2025	-30	03/12/2025	Q1726-01	10267	VL042143.D
10320	-30	03/11/2025	03/14/2025	-30	03/12/2025	Q1669-03	10267	VL042143.D
10060	-30	03/11/2025	03/14/2025	-30	03/12/2025	Q1668-03	10267	VL042143.D

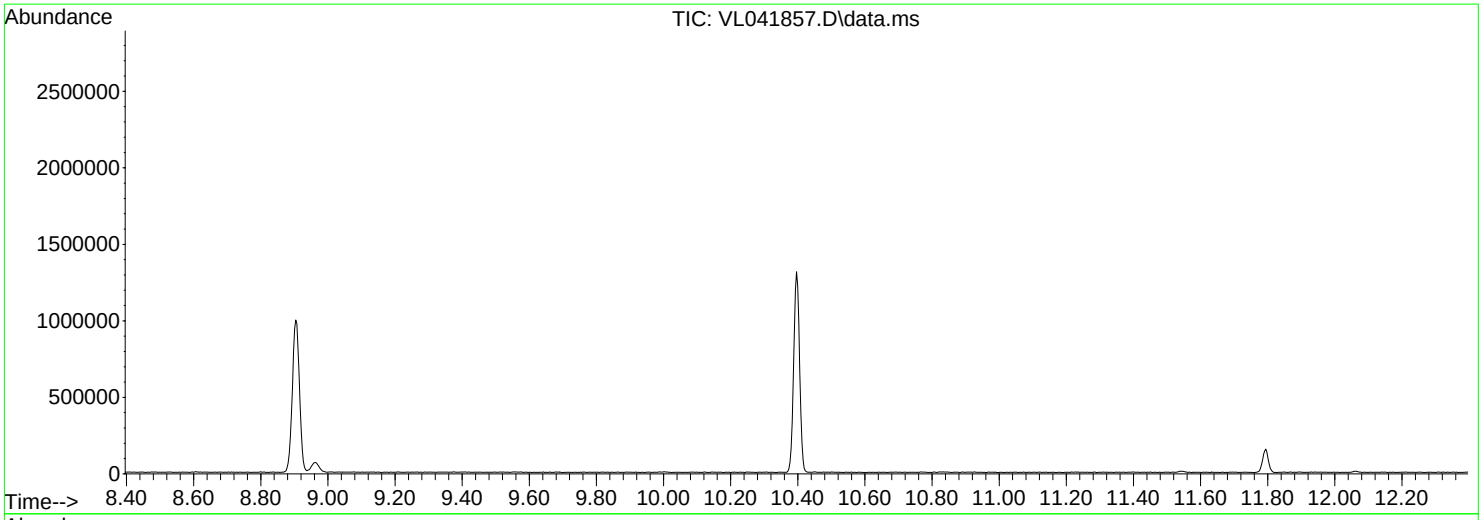
BFB

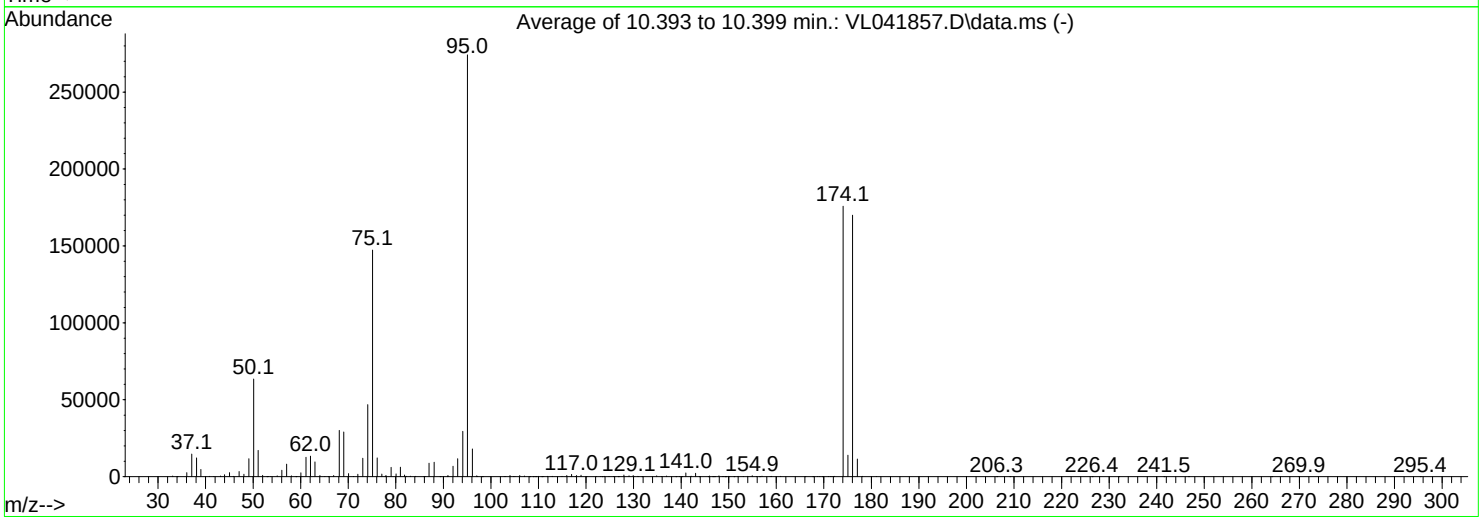
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL010925\
Data File : VL041857.D
Acq On : 09 Jan 2025 09:48
Operator : SY/MD
Sample : BFB
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL010925AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
Last Update : Fri Jan 10 00:31:30 2025





AutoFind: Scans 3184, 3185, 3186; Background Corrected with Scan 3165

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	23.1	63467	PASS
75	95	30	66	53.7	147285	PASS
95	95	100	100	100.0	274227	PASS
96	95	5	9	6.6	18052	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	64.1	175765	PASS
175	174	4	9	7.9	13949	PASS
176	174	93	101	96.7	170005	PASS
177	176	5	9	6.7	11408	PASS

Response Factor Report MSVOA_L

Method Path : Z:\voasrv\HPCHEM1\MSVOA_L\methods\
Method File : VL010925AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
Last Update : Fri Jan 10 00:31:30 2025
Response Via : Initial Calibration

Calibration Files
0.03=VL041864.D 0.1 =VL041863.D 0.5 =VL041862.D 1 =VL041861.D 2 =VL041860.D 10 =VL041859.D 15 =VL041865.D

		Compound	0.03	0.1	0.5	1	2	10	15	Avg	%RSD
1)	I	Bromochloromethane	----------ISTD----------								
2)	T	Dichlorodifluo...			1.790	1.746	1.644	1.508	1.521	1.642	7.77
3)		Chlorodifluoro...			1.980	1.875	1.875	1.648	1.638	1.803	8.46
4)		Chloromethane			0.661	0.675	0.683	0.571	0.601	0.638	7.73
5)	T	Vinyl Chloride	0.889	0.745	0.671	0.653	0.628	0.576	0.589	0.679	15.97
6)	T	Bromomethane			0.390	0.315	0.337	0.265	0.293	0.320	14.78
7)		Chloroethane			0.288	0.282	0.273	0.229	0.243	0.263	9.74
8)	T	Dichlorotetraf...			1.495	1.443	1.541	1.306	1.353	1.427	6.83
9)	T	Propene			0.941	0.917	0.856	0.747	0.747	0.841	10.88
10)	T	Heptane			2.468	2.322	2.271	2.021	2.012	2.219	8.94
11)	T	Trichlorofluor...			1.818	1.734	1.794	1.485	1.607	1.687	8.28
12)	T	1,1,2-Trichlor...			1.480	1.405	1.442	1.207	1.291	1.365	8.30
13)		Ethanol			0.074	0.060	0.062	0.035	0.036	0.053	32.34
14)	T	Bromoethene			0.534	0.482	0.522	0.437	0.468	0.489	8.15
15)	T	Acetone			2.132	1.970	1.818	1.220	1.293	1.687	24.25
16)	T	1,3-Butadiene			0.982	0.742	0.710	0.574	0.615	0.724	21.97
17)		tert-Butyl alc...			2.095	2.023	1.995	1.708	1.746	1.914	9.12
18)	T	1,1-Dichloroet...			0.682	0.661	0.624	0.543	0.579	0.618	9.30
19)	T	Isopropyl Alcohol			1.049	0.974	0.894	0.737	0.778	0.886	14.74
20)	T	Methylene Chlo...			0.678	0.650	0.589	0.477	0.484	0.575	16.11
21)	T	Allyl Chloride			1.212	1.123	1.113	0.944	1.004	1.079	9.82
22)	T	trans-1,2-Dich...			0.787	0.768	0.751	0.614	0.657	0.715	10.60
23)	T	Vinyl Acetate			0.747	0.813	1.062	0.813	0.838	0.855	14.14
24)	T	1,1-Dichloroet...			1.483	1.447	1.407	1.182	1.256	1.355	9.58
25)	T	Ethyl Acetate			4.395	4.387	4.334	3.930	3.909	4.191	5.94
26)	T	Hexane			1.880	1.798	1.796	1.575	1.572	1.724	8.22
27)	T	Carbon Disulfide			1.742	1.682	1.729	1.513	1.590	1.651	5.91
28)	T	Methyl tert-Bu...			1.432	1.348	1.504	1.137	1.158	1.316	12.43
29)	T	Chloroform			2.559	2.541	2.571	2.188	2.203	2.412	8.23
30)	T	Cyclohexane			1.544	1.520	1.599	1.364	1.377	1.481	7.06
31)	T	cis-1,2-Dichlo...			1.823	1.793	1.721	1.538	1.550	1.685	7.96
32)	T	1,1,1-Trichlor...	2.446	2.507	2.490	2.394	2.480	2.189	2.268	2.396	5.11
33)	I	1,4-Difluorobenzene	----------ISTD----------								
34)	T	2-Butanone			0.886	0.861	0.893	0.753	0.764	0.831	8.15
35)	T	Carbon Tetrach...	0.939	0.734	0.733	0.762	0.786	0.732	0.754	0.777	9.52
36)	T	Benzene			1.194	1.211	1.210	1.099	1.086	1.160	5.35
37)	T	1,2-Dichloroet...			0.672	0.606	0.622	0.564	0.579	0.609	6.91
38)	T	Trichloroethene	0.413	0.496	0.499	0.472	0.470	0.425	0.430	0.458	7.65
39)	T	1,2-Dichloropr...			0.437	0.422	0.427	0.387	0.390	0.413	5.47

Method Path : Z:\voasrv\HPCHEM1\MSVOA_L\methods\
Method File : VL010925AIR.M

40)	T	1,4-Dioxane			0.231	0.212	0.214	0.189	0.192	0.208	8.33
41)	T	Tetrahydrofuran			0.531	0.502	0.506	0.454	0.448	0.488	7.33
42)	T	Bromodichlorom...			0.839	0.853	0.856	0.804	0.829	0.836	2.53
43)		Methyl Methacr...			0.511	0.483	0.478	0.451	0.452	0.475	5.22
44)	T	2,2,4-Trimethy...			2.057	2.049	2.044	1.829	1.820	1.960	6.32
45)	T	t-1,3-Dichloro...			0.494	0.491	0.492	0.479	0.475	0.486	1.78
46)	T	cis-1,3-Dichlo...			0.641	0.640	0.625	0.608	0.606	0.624	2.66
47)	T	1,1,2-Trichlor...			0.460	0.452	0.447	0.399	0.413	0.434	6.15
48)	T	Dibromochlorom...			0.637	0.634	0.696	0.656	0.669	0.658	3.85
49)	T	Bromoform			0.522	0.565	0.610	0.583	0.594	0.575	5.86
50)	T	4-Methyl-2-Pen...			1.246	1.237	1.228	1.108	1.113	1.186	5.89
51)	T	2-Hexanone			1.034	0.993	1.031	0.909	0.912	0.976	6.32
52)	T	Tetrachloroethene	0.547	0.499	0.445	0.430	0.428	0.381	0.382	0.444	13.64
53)	T	Toluene			1.443	1.434	1.422	1.297	1.303	1.380	5.30
54)	T	1,2-Dibromoethane		0.550	0.619	0.616	0.619	0.562	0.577	0.590	5.33
55)	I	Chlorobenzene-d5	----------ISTD----------								
56)		1,1,1,2-Tetrac...			0.619	0.615	0.638	0.547	0.561	0.596	6.69
57)	T	Chlorobenzene			1.171	1.197	1.171	1.016	1.019	1.115	8.03
58)	T	Ethyl Benzene			2.107	2.147	2.215	1.907	1.904	2.056	6.94
59)	T	m/p-Xylene			1.679	1.715	1.735	1.486	1.509	1.625	7.27
60)	T	o-Xylene			1.713	1.709	1.728	1.474	1.480	1.621	8.10
61)	T	Styrene			0.846	0.815	0.858	0.769	0.759	0.809	5.46
62)		Isopropylbenzene			2.546	2.578	2.649	2.231	2.196	2.440	8.63
63)	T	1,1,2,2-Tetrac...	0.917	1.102	1.015	0.991	1.032	0.883	0.874	0.973	8.74
64)		n-propylbenzene			0.672	0.675	0.684	0.573	0.576	0.636	8.85
65)		tert-Butylbenzene			2.320	2.413	2.449	1.954	1.906	2.208	11.74
66)	T	Benzyl Chloride			0.245	0.232	0.253	0.215	0.199	0.229	9.56
67)		sec-Butylbenzene			3.272	3.300	3.369	2.680	2.593	3.043	12.29
68)	S	1-Bromo-4-Fluo...	0.806	0.797	0.806	0.803	0.809	0.801	0.791	0.802	0.78
69)		p-Isopropyltol...			2.708	2.843	2.861	2.321	2.250	2.597	11.21
70)		n-Butylbenzene			2.797	2.833	2.871	2.307	2.223	2.606	12.05
71)		2-Chlorotoluene			2.019	2.016	2.016	1.707	1.688	1.889	9.28
72)	T	4-Ethyltoluene			2.031	2.130	2.181	1.817	1.777	1.987	9.18
73)	T	1,3,5-Trimethy...			1.730	1.818	1.830	1.532	1.525	1.687	8.88
74)	T	1,2,4-Trimethy...			1.908	2.001	2.042	1.617	1.595	1.833	11.62
75)	T	1,3-Dichlorobe...			1.190	1.177	1.191	0.966	0.969	1.099	10.91
76)	T	1,4-Dichlorobe...			1.170	1.148	1.185	0.966	0.969	1.088	10.15
77)	T	1,2-Dichlorobe...			1.124	1.117	1.122	0.915	0.915	1.039	10.87
78)	T	Hexachloro-1,3...			0.999	1.015	1.009	0.714	0.725	0.893	17.71
79)	T	Naphthalene		2.105	2.131	2.188	2.263	1.580	1.579	1.974	15.75
80)	T	Naphthalene,2-...			1.184	1.261	1.336	0.763	0.780	1.065	25.66
81)	T	1,2,4-Trichlor...			1.006	1.081	1.081	0.764	0.768	0.940	17.19

(#) = Out of Range

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL010925\
Data File : VL041859.D
Acq On : 09 Jan 2025 11:19
Operator : SY/MD
Sample : VSTDICCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 09 11:50:04 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL010925AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Wed Jan 08 03:26:12 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations APPROVED
Reviewed By :Mahesh Dadoda 01/10/2025
Supervised By :Semsettin Yesilyurt 01/10/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.803	49	150033	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.985	114	442867	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.904	117	410499	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.396	95	328846	9.353	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 93.500%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.505	85	226313	9.193	ppbv		99
3) Chlorodifluoromethane	1.483	51	247276	10.513	ppbv		98
4) Chloromethane	1.541	50	85664	8.462	ppbv		95
5) Vinyl Chloride	1.586	62	86352	8.457	ppbv		98
6) Bromomethane	1.677	94	39829	9.107	ppbv		96
7) Chloroethane	1.713	64	34351	8.740	ppbv		94
8) Dichlorotetrafluoroethane	1.560	85	195898	9.224	ppbv		93
9) Propene	1.489	41	112124	13.692	ppbv		98
10) Heptane	5.014	43	303272	14.992	ppbv		95
11) Trichlorofluoromethane	1.887	101	222752	8.899	ppbv		95
12) 1,1,2-Trichlorotrifluo...	2.153	101	181116	9.715	ppbv		90
13) Ethanol	1.729	45	5261m	5.647	ppbv		
14) Bromoethene	1.790	108	65566	10.743	ppbv		96
15) Acetone	1.845	43	183039	6.626	ppbv		94
16) 1,3-Butadiene	1.615	39	86059	7.945	ppbv		94
17) tert-Butyl alcohol	2.052	59	256303	10.708	ppbv		99
18) 1,1-Dichloroethene	2.046	96	81423	10.432	ppbv		89
19) Isopropyl Alcohol	1.897	45	110578	8.528	ppbv	#	1
20) Methylene Chloride	2.072	84	71501	9.055	ppbv	#	81
21) Allyl Chloride	2.107	41	141576	9.950	ppbv		90
22) trans-1,2-Dichloroethene	2.353	96	92062	10.553	ppbv		93
23) Vinyl Acetate	2.480	43	121914	13.762	ppbv	#	92
24) 1,1-Dichloroethane	2.425	63	177291	9.286	ppbv		100
25) Ethyl Acetate	2.855	43	589565	12.728	ppbv		98
26) Hexane	2.845	57	236237	14.695	ppbv		88
27) Carbon Disulfide	2.162	76	226986	14.877	ppbv	#	88
28) Methyl tert-Butyl Ether	2.457	73	170565	14.077	ppbv		98
29) Chloroform	2.868	83	328206	10.989	ppbv		97
30) Cyclohexane	3.884	84	204595	16.773	ppbv	#	89
31) cis-1,2-Dichloroethene	2.739	61	230732	13.944	ppbv		92
32) 1,1,1-Trichloroethane	3.392	97	328356	12.132	ppbv		94
34) 2-Butanone	2.573	43	333402	9.557	ppbv		95
35) Carbon Tetrachloride	3.787	117	324320	9.690	ppbv		97
36) Benzene	3.680	78	486852	11.507	ppbv	#	95
37) 1,2-Dichloroethane	3.240	62	249944	8.987	ppbv		97
38) Trichloroethene	4.577	130	188346	11.357	ppbv		95
39) 1,2-Dichloropropane	4.344	63	171561	10.483	ppbv	#	84
40) 1,4-Dioxane	4.616	88	83645	13.190	ppbv	#	66
41) Tetrahydrofuran	3.075	42	201204	12.236	ppbv		93
42) Bromodichloromethane	4.522	83	355888	10.910	ppbv		97
43) Methyl Methacrylate	4.914	69	199710	15.032	ppbv		87
44) 2,2,4-Trimethylpentane	4.674	57	809851	11.618	ppbv		93
45) t-1,3-Dichloropropene	6.454	75	212343	16.371	ppbv		97

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL010925\
Data File : VL041859.D
Acq On : 09 Jan 2025 11:19
Operator : SY/MD
Sample : VSTDICCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 09 11:50:04 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL010925AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Wed Jan 08 03:26:12 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations APPROVED
Reviewed By :Mahesh Dadoda 01/10/2025
Supervised By :Semsettin Yesilyurt 01/10/2025

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46)	cis-1,3-Dichloropropene	5.639	75	269395	15.788	ppbv		87
47)	1,1,2-Trichloroethane	6.619	97	176811	10.214	ppbv		97
48)	Dibromochloromethane	7.419	129	290737	13.195	ppbv		99
49)	Bromoform	9.506	173	257972	14.609	ppbv		99
50)	4-Methyl-2-Pentanone	5.797	43	490478	12.169	ppbv		92
51)	2-Hexanone	7.467	43	402499	13.184	ppbv	#	88
52)	Tetrachloroethene	8.251	164	168568	13.435	ppbv		96
53)	Toluene	6.969	91	574578	15.242	ppbv		99
54)	1,2-Dibromoethane	7.681	107	248821	11.739	ppbv		98
56)	1,1,1,2-Tetrachloroethane	8.946	131	224424	9.592	ppbv		99
57)	Chlorobenzene	8.946	112	417085	9.725	ppbv		96
58)	Ethyl Benzene	9.380	91	782806	13.992	ppbv		99
59)	m/p-Xylene	9.558	91	1220366m	24.712	ppbv		
60)	o-Xylene	9.985	91	605176	12.598	ppbv		99
61)	Styrene	9.895	104	315614	16.935	ppbv		97
62)	Isopropylbenzene	10.561	105	915687	12.133	ppbv		100
63)	1,1,2,2-Tetrachloroethane	9.985	83	362310	8.601	ppbv		100
64)	n-propylbenzene	11.011	120	235202	12.147	ppbv		98
65)	tert-Butylbenzene	11.552	119	801987	11.792	ppbv		96
66)	Benzyl Chloride	11.636	91	88168	15.512	ppbv		95
67)	sec-Butylbenzene	11.788	105	1100240	11.087	ppbv		98
69)	p-Isopropyltoluene	11.947	119	952865	12.230	ppbv		97
70)	n-Butylbenzene	12.300	91	946867	12.097	ppbv		98
71)	2-Chlorotoluene	10.921	91	700520	12.787	ppbv		100
72)	4-Ethyltoluene	11.144	105	745709	12.837	ppbv		99
73)	1,3,5-Trimethylbenzene	11.225	105	628921	12.361	ppbv		97
74)	1,2,4-Trimethylbenzene	11.558	105	663696	11.261	ppbv		95
75)	1,3-Dichlorobenzene	11.626	146	396672	10.056	ppbv		98
76)	1,4-Dichlorobenzene	11.691	146	396593	10.448	ppbv		97
77)	1,2-Dichlorobenzene	11.966	146	375622	9.138	ppbv		99
78)	Hexachloro-1,3-Butadiene	13.902	225	293286	10.050	ppbv		100
79)	Naphthalene	13.533	128	648444	14.936	ppbv		99
80)	Naphthalene,2-methyl-	14.478	142	313133	19.488	ppbv		97
81)	1,2,4-Trichlorobenzene	13.458	180	313601	13.033	ppbv		100

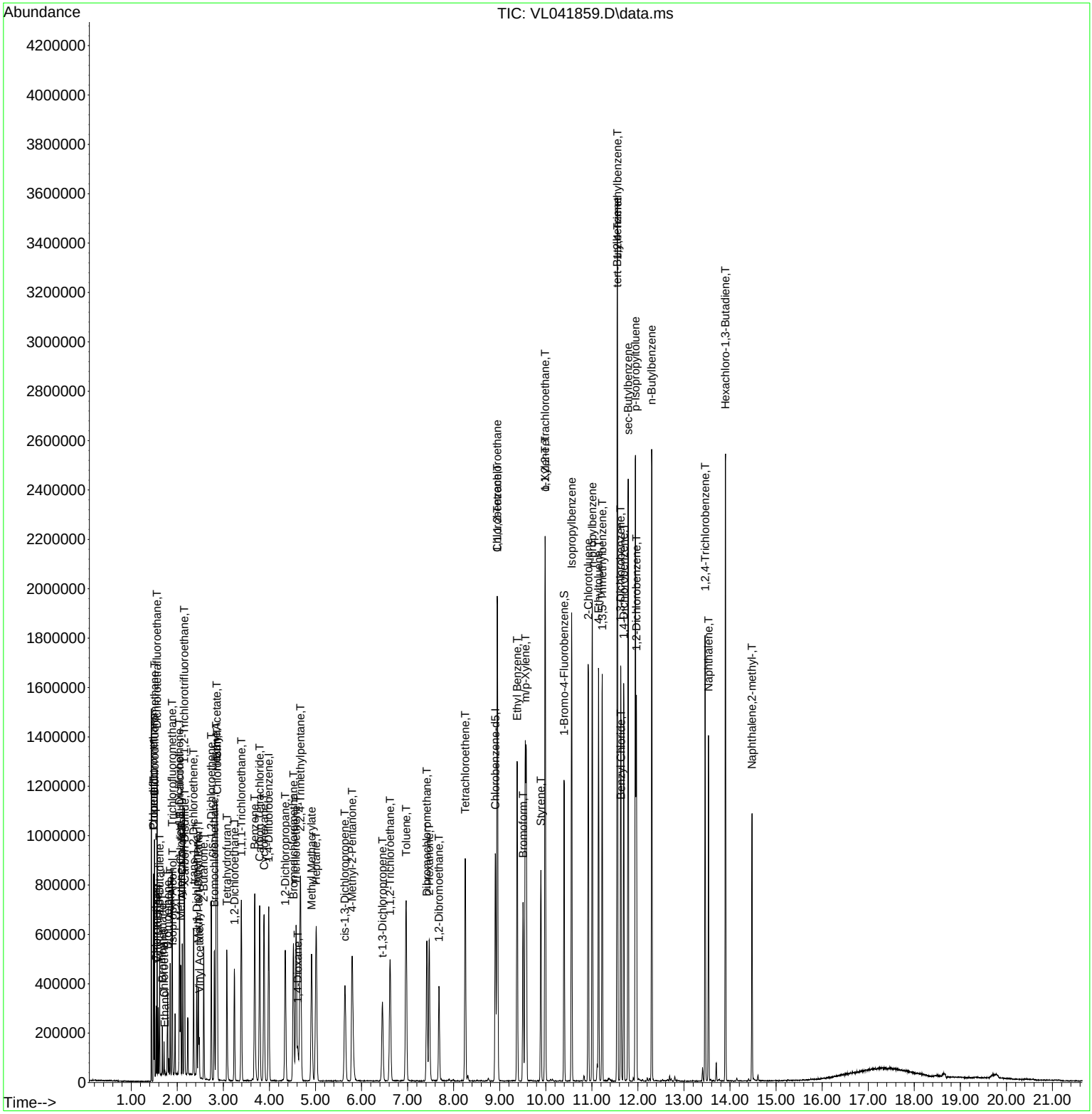
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL010925\
Data File : VL041859.D
Acq On : 09 Jan 2025 11:19
Operator : SY/MD
Sample : VSTDICCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 09 11:50:04 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL010925AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Wed Jan 08 03:26:12 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations APPROVED
Reviewed By :Mahesh Dadoda 01/10/2025
Supervised By :Semsettin Yesilyurt 01/10/2025



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL010925\
Data File : VL041860.D
Acq On : 09 Jan 2025 11:52
Operator : SY/MD
Sample : VSTDICC002
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 09 12:25:14 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL010925AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Wed Jan 08 03:26:12 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations APPROVED
Reviewed By :Mahesh Dadoda 01/10/2025
Supervised By :Semsettin Yesilyurt 01/10/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.803	49	145561	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.981	114	440592	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.904	117	401428	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.396	95	324737	9.445	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 94.500%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.505	85	47849	2.003	ppbv		98
3) Chlorodifluoromethane	1.483	51	54584	2.392	ppbv		98
4) Chloromethane	1.541	50	19879	2.024	ppbv		92
5) Vinyl Chloride	1.589	62	18283	1.846	ppbv		96
6) Bromomethane	1.677	94	9801	2.310	ppbv		94
7) Chloroethane	1.712	64	7947	2.084	ppbv		98
8) Dichlorotetrafluoroethane	1.560	85	44848	2.176	ppbv		100
9) Propene	1.489	41	24915	3.136	ppbv		100
10) Heptane	5.011	43	66122	3.369	ppbv		93
11) Trichlorofluoromethane	1.887	101	52216	2.150	ppbv		100
12) 1,1,2-Trichlorotrifluo...	2.153	101	41991	2.322	ppbv		94
13) Ethanol	1.729	45	1802m	1.994	ppbv		
14) Bromoethene	1.790	108	15205	2.568	ppbv		97
15) Acetone	1.845	43	52918	1.975	ppbv		90
16) 1,3-Butadiene	1.615	39	20658	1.966	ppbv		88
17) tert-Butyl alcohol	2.052	59	58092	2.502	ppbv	#	94
18) 1,1-Dichloroethene	2.046	96	18153	2.397	ppbv		84
19) Isopropyl Alcohol	1.897	45	26028	2.069	ppbv	#	96
20) Methylene Chloride	2.072	84	17135	2.237	ppbv		83
21) Allyl Chloride	2.107	41	32414	2.348	ppbv		91
22) trans-1,2-Dichloroethene	2.353	96	21862	2.583	ppbv		94
23) Vinyl Acetate	2.476	43	30926	3.598	ppbv	#	95
24) 1,1-Dichloroethane	2.424	63	40950	2.211	ppbv		99
25) Ethyl Acetate	2.855	43	126167	2.807	ppbv	#	96
26) Hexane	2.842	57	52287	3.352	ppbv		87
27) Carbon Disulfide	2.162	76	50347	3.401	ppbv		95
28) Methyl tert-Butyl Ether	2.457	73	43777	3.724	ppbv		99
29) Chloroform	2.865	83	74846	2.583	ppbv		97
30) Cyclohexane	3.878	84	46542	3.933	ppbv	#	85
31) cis-1,2-Dichloroethene	2.738	61	50096	3.120	ppbv		98
32) 1,1,1-Trichloroethane	3.389	97	72210	2.750	ppbv		93
34) 2-Butanone	2.573	43	78681	2.267	ppbv		98
35) Carbon Tetrachloride	3.790	117	69223	2.079	ppbv		90
36) Benzene	3.680	78	106654	2.534	ppbv		96
37) 1,2-Dichloroethane	3.240	62	54776	1.980	ppbv	#	95
38) Trichloroethene	4.574	130	41427	2.511	ppbv		92
39) 1,2-Dichloropropane	4.347	63	37604m	2.310	ppbv		
40) 1,4-Dioxane	4.629	88	18864	2.990	ppbv	#	50
41) Tetrahydrofuran	3.078	42	44570	2.724	ppbv		90
42) Bromodichloromethane	4.515	83	75424	2.324	ppbv		99
43) Methyl Methacrylate	4.920	69	42157m	3.190	ppbv		
44) 2,2,4-Trimethylpentane	4.674	57	180117	2.597	ppbv		92
45) t-1,3-Dichloropropene	6.454	75	43372	3.361	ppbv		99

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL010925\
Data File : VL041860.D
Acq On : 09 Jan 2025 11:52
Operator : SY/MD
Sample : VSTDICC002
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 09 12:25:14 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL010925AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Wed Jan 08 03:26:12 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations APPROVED
Reviewed By :Mahesh Dadoda 01/10/2025
Supervised By :Semsettin Yesilyurt 01/10/2025

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46)	cis-1,3-Dichloropropene	5.635	75	55051	3.243	ppbv		95
47)	1,1,2-Trichloroethane	6.622	97	39391m	2.287	ppbv		
48)	Dibromochloromethane	7.419	129	61313	2.797	ppbv		100
49)	Bromoform	9.506	173	53734	3.059	ppbv		99
50)	4-Methyl-2-Pentanone	5.797	43	108191	2.698	ppbv		91
51)	2-Hexanone	7.470	43	90844	2.991	ppbv	#	86
52)	Tetrachloroethene	8.250	164	37701	3.020	ppbv		92
53)	Toluene	6.969	91	125295	3.341	ppbv		98
54)	1,2-Dibromoethane	7.681	107	54562	2.587	ppbv		99
56)	1,1,1,2-Tetrachloroethane	8.946	131	51252	2.240	ppbv		98
57)	Chlorobenzene	8.946	112	94006	2.242	ppbv		97
58)	Ethyl Benzene	9.377	91	177814	3.250	ppbv		99
59)	m/p-Xylene	9.571	91	278550m	5.768	ppbv		
60)	o-Xylene	9.985	91	138722	2.953	ppbv		99
61)	Styrene	9.891	104	68864	3.779	ppbv		97
62)	Isopropylbenzene	10.558	105	212705	2.882	ppbv		98
63)	1,1,2,2-Tetrachloroethane	9.985	83	82870	2.012	ppbv		99
64)	n-propylbenzene	11.008	120	54888	2.899	ppbv		100
65)	tert-Butylbenzene	11.549	119	196649	2.957	ppbv		95
66)	Benzyl Chloride	11.636	91	20300	3.652	ppbv		95
67)	sec-Butylbenzene	11.785	105	270495	2.787	ppbv		100
69)	p-Isopropyltoluene	11.943	119	229731	3.015	ppbv		97
70)	n-Butylbenzene	12.299	91	230497	3.011	ppbv		98
71)	2-Chlorotoluene	10.921	91	161864	3.021	ppbv		99
72)	4-Ethyltoluene	11.144	105	175142	3.083	ppbv		98
73)	1,3,5-Trimethylbenzene	11.222	105	146927	2.953	ppbv		99
74)	1,2,4-Trimethylbenzene	11.555	105	163980	2.845	ppbv		98
75)	1,3-Dichlorobenzene	11.626	146	95654	2.480	ppbv		98
76)	1,4-Dichlorobenzene	11.691	146	95164	2.564	ppbv		97
77)	1,2-Dichlorobenzene	11.966	146	90047	2.240	ppbv		98
78)	Hexachloro-1,3-Butadiene	13.898	225	81017	2.839	ppbv		98
79)	Naphthalene	13.529	128	181703	4.280	ppbv		99
80)	Naphthalene,2-methyl-	14.474	142	107237	6.825	ppbv		98
81)	1,2,4-Trichlorobenzene	13.458	180	86805	3.689	ppbv		99

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

Quantitation Report (QT Reviewed)

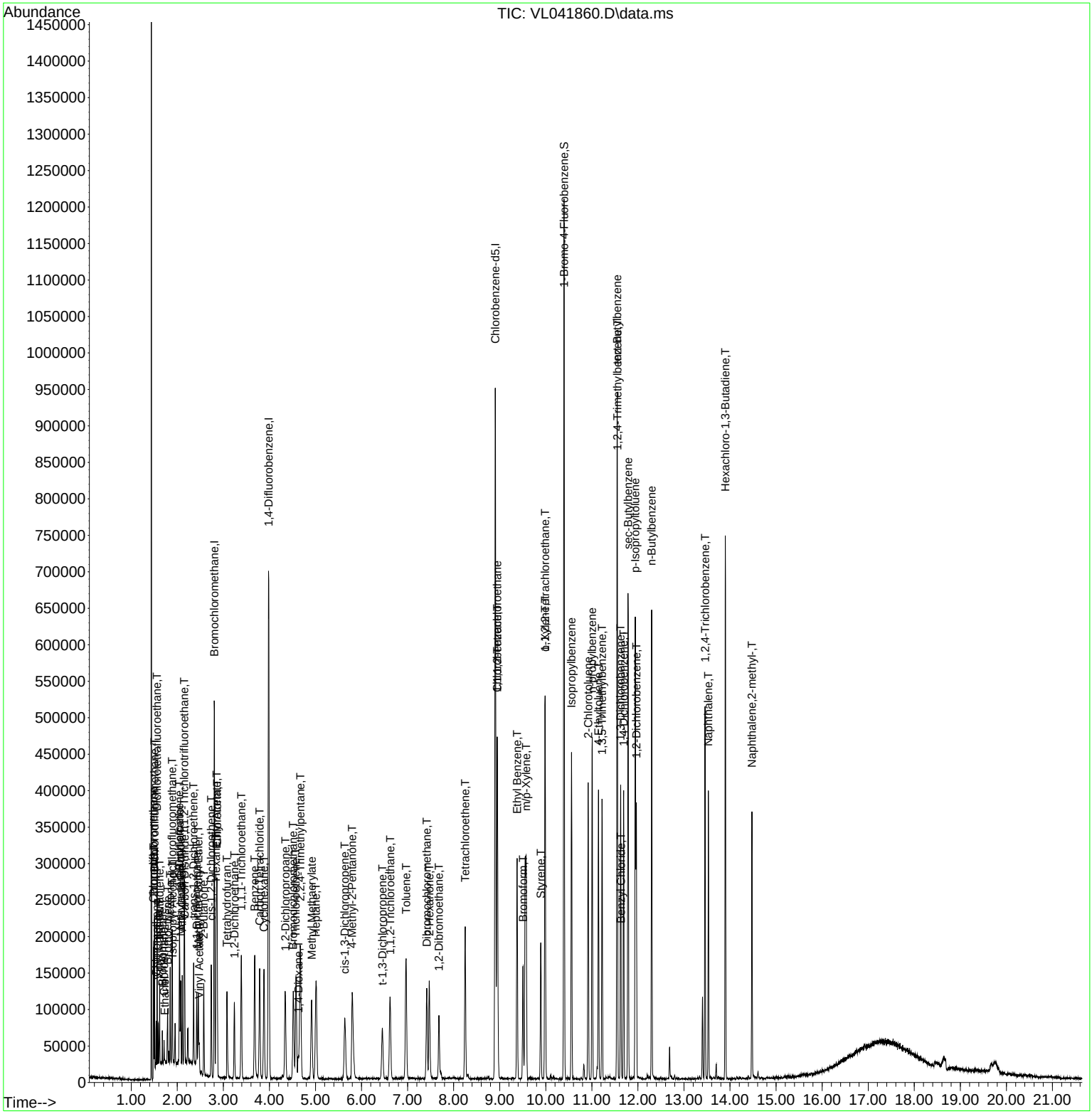
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL010925\
Data File : VL041860.D
Acq On : 09 Jan 2025 11:52
Operator : SY/MD
Sample : VSTDICC002
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 09 12:25:14 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL010925AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Wed Jan 08 03:26:12 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 01/10/2025
Supervised By :Semsettin Yesilyurt 01/10/2025



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL010925\
Data File : VL041861.D
Acq On : 09 Jan 2025 12:22
Operator : SY/MD
Sample : VSTDICC001
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 09 13:30:32 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL010925AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Wed Jan 08 03:26:12 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED
Reviewed By :Mahesh Dadoda 01/10/2025
Supervised By :Semsettin Yesilyurt 01/10/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.803	49	143443	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.981	114	434494	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.904	117	394905	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.393	95	317281	9.381	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 93.800%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.505	85	25040	1.064	ppbv		98
3) Chlorodifluoromethane	1.483	51	26900	1.196	ppbv		99
4) Chloromethane	1.541	50	9681	1.000	ppbv		90
5) Vinyl Chloride	1.586	62	9371	0.960	ppbv		97
6) Bromomethane	1.674	94	4513	1.079	ppbv		97
7) Chloroethane	1.712	64	4049	1.077	ppbv		97
8) Dichlorotetrafluoroethane	1.560	85	20696	1.019	ppbv		93
9) Propene	1.489	41	13149	1.680	ppbv		93
10) Heptane	5.011	43	33313	1.722	ppbv		99
11) Trichlorofluoromethane	1.887	101	24866	1.039	ppbv		95
12) 1,1,2-Trichlorotrifluo...	2.153	101	20153	1.131	ppbv		91
13) Ethanol	1.729	45	857m	0.962	ppbv		
14) Bromoethene	1.790	108	6917	1.185	ppbv	#	85
15) Acetone	1.845	43	28258	1.070	ppbv	#	86
16) 1,3-Butadiene	1.615	39	10650	1.028	ppbv		95
17) tert-Butyl alcohol	2.052	59	29021	1.268	ppbv	#	92
18) 1,1-Dichloroethene	2.046	96	9481	1.270	ppbv		80
19) Isopropyl Alcohol	1.897	45	13968	1.127	ppbv	#	97
20) Methylene Chloride	2.072	84	9326	1.235	ppbv		89
21) Allyl Chloride	2.107	41	16109	1.184	ppbv		98
22) trans-1,2-Dichloroethene	2.353	96	11020m	1.321	ppbv		
23) Vinyl Acetate	2.473	43	11666	1.377	ppbv	#	95
24) 1,1-Dichloroethane	2.421	63	20750	1.137	ppbv	#	94
25) Ethyl Acetate	2.855	43	62927	1.421	ppbv	#	96
26) Hexane	2.842	57	25792	1.678	ppbv		89
27) Carbon Disulfide	2.162	76	24132	1.654	ppbv	#	53
28) Methyl tert-Butyl Ether	2.457	73	19330	1.669	ppbv		99
29) Chloroform	2.865	83	36445	1.276	ppbv		100
30) Cyclohexane	3.881	84	21797	1.869	ppbv		92
31) cis-1,2-Dichloroethene	2.735	61	25721	1.626	ppbv		98
32) 1,1,1-Trichloroethane	3.389	97	34347	1.327	ppbv		95
34) 2-Butanone	2.573	43	37395	1.093	ppbv		96
35) Carbon Tetrachloride	3.784	117	33087	1.008	ppbv		94
36) Benzene	3.677	78	52621	1.268	ppbv	#	91
37) 1,2-Dichloroethane	3.237	62	26348	0.966	ppbv	#	93
38) Trichloroethene	4.577	130	20492	1.259	ppbv		97
39) 1,2-Dichloropropane	4.341	63	18342	1.142	ppbv	#	78
40) 1,4-Dioxane	4.622	88	9193m	1.478	ppbv		
41) Tetrahydrofuran	3.082	42	21802	1.351	ppbv		89
42) Bromodichloromethane	4.515	83	37075	1.159	ppbv	#	90
43) Methyl Methacrylate	4.913	69	20990	1.610	ppbv		93
44) 2,2,4-Trimethylpentane	4.671	57	89035	1.302	ppbv		92
45) t-1,3-Dichloropropene	6.448	75	21319m	1.675	ppbv		

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL010925\
Data File : VL041861.D
Acq On : 09 Jan 2025 12:22
Operator : SY/MD
Sample : VSTDICC001
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 09 13:30:32 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL010925AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Wed Jan 08 03:26:12 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED
Reviewed By :Mahesh Dadoda 01/10/2025
Supervised By :Semsettin Yesilyurt 01/10/2025

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46)	cis-1,3-Dichloropropene	5.635	75	27792m	1.660	ppbv		
47)	1,1,2-Trichloroethane	6.619	97	19621	1.155	ppbv		97
48)	Dibromochloromethane	7.412	129	27553m	1.275	ppbv		
49)	Bromoform	9.503	173	24569	1.418	ppbv		99
50)	4-Methyl-2-Pentanone	5.800	43	53757m	1.359	ppbv		
51)	2-Hexanone	7.470	43	43139m	1.440	ppbv		
52)	Tetrachloroethene	8.250	164	18665	1.516	ppbv		91
53)	Toluene	6.962	91	62304	1.685	ppbv		99
54)	1,2-Dibromoethane	7.678	107	26769	1.287	ppbv		89
56)	1,1,1,2-Tetrachloroethane	8.946	131	24293	1.079	ppbv	#	91
57)	Chlorobenzene	8.946	112	47288	1.146	ppbv		92
58)	Ethyl Benzene	9.377	91	84795	1.575	ppbv		99
59)	m/p-Xylene	9.552	91	135481m	2.852	ppbv		
60)	o-Xylene	9.982	91	67480	1.460	ppbv		100
61)	Styrene	9.891	104	32180	1.795	ppbv		99
62)	Isopropylbenzene	10.558	105	101824	1.402	ppbv		99
63)	1,1,2,2-Tetrachloroethane	9.985	83	39140	0.966	ppbv		96
64)	n-propylbenzene	11.008	120	26642	1.430	ppbv		99
65)	tert-Butylbenzene	11.549	119	95303	1.457	ppbv		95
66)	Benzyl Chloride	11.633	91	9179	1.679	ppbv	#	91
67)	sec-Butylbenzene	11.785	105	130334	1.365	ppbv		98
69)	p-Isopropyltoluene	11.943	119	112256	1.498	ppbv		98
70)	n-Butylbenzene	12.299	91	111884	1.486	ppbv		99
71)	2-Chlorotoluene	10.917	91	79598	1.510	ppbv		99
72)	4-Ethyltoluene	11.141	105	84096	1.505	ppbv		99
73)	1,3,5-Trimethylbenzene	11.222	105	71812	1.467	ppbv		98
74)	1,2,4-Trimethylbenzene	11.552	105	79018	1.394	ppbv	#	92
75)	1,3-Dichlorobenzene	11.623	146	46462	1.224	ppbv		99
76)	1,4-Dichlorobenzene	11.688	146	45316	1.241	ppbv		99
77)	1,2-Dichlorobenzene	11.963	146	44103	1.115	ppbv		98
78)	Hexachloro-1,3-Butadiene	13.898	225	40100	1.428	ppbv		98
79)	Naphthalene	13.529	128	86398	2.069	ppbv		99
80)	Naphthalene,2-methyl-	14.474	142	49807	3.222	ppbv		96
81)	1,2,4-Trichlorobenzene	13.455	180	42679	1.844	ppbv		99

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

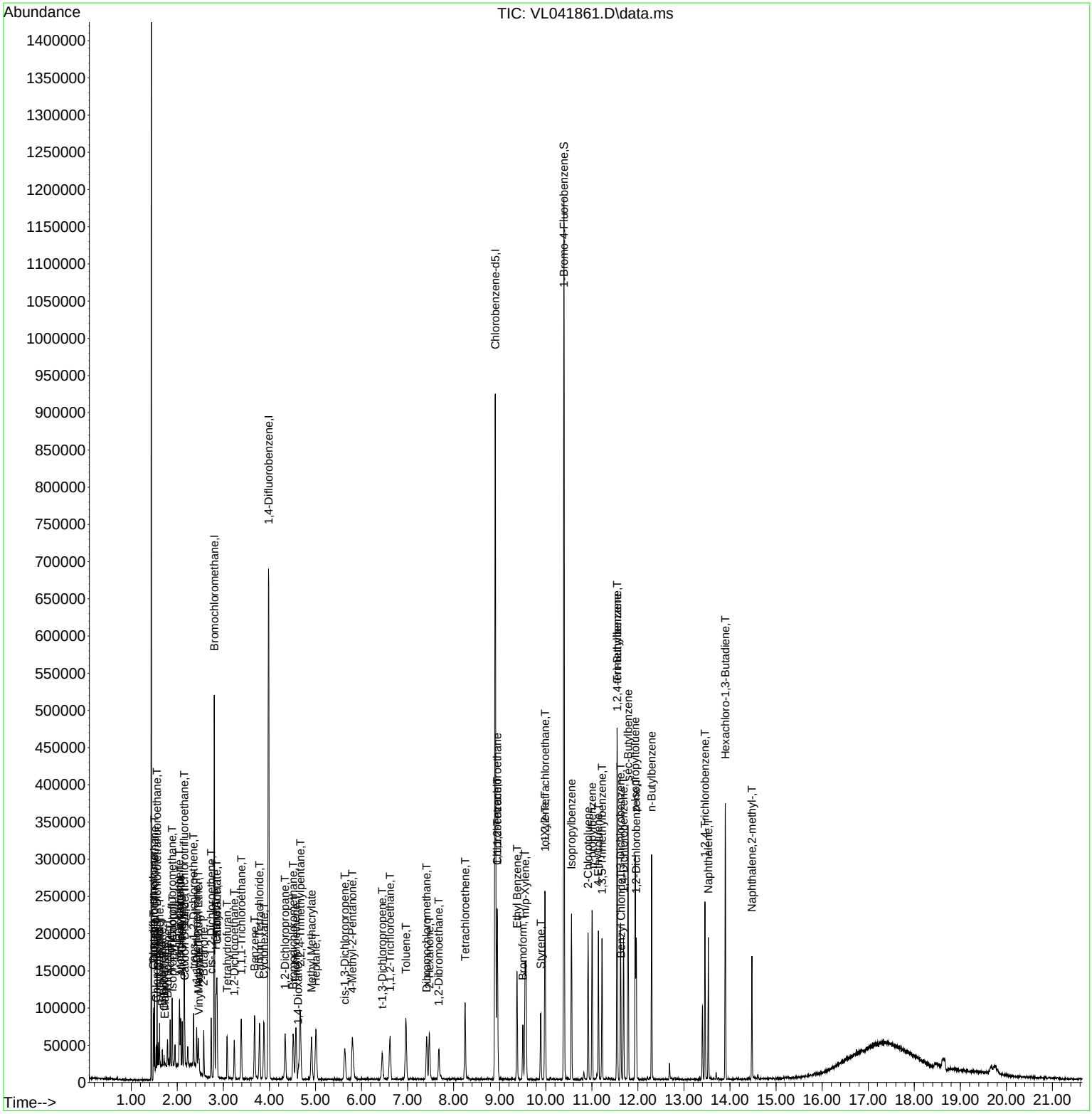
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL010925\
Data File : VL041861.D
Acq On : 09 Jan 2025 12:22
Operator : SY/MD
Sample : VSTDICC001
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 09 13:30:32 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL010925AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Wed Jan 08 03:26:12 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 01/10/2025
Supervised By :Semsettin Yesilyurt 01/10/2025



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL010925\
Data File : VL041862.D
Acq On : 09 Jan 2025 12:53
Operator : SY/MD
Sample : VSTDICC0.5
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 09 13:33:10 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL010925AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Wed Jan 08 03:26:12 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations APPROVED
Reviewed By :Mahesh Dadoda 01/10/2025
Supervised By :Semsettin Yesilyurt 01/10/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.803	49	143127	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.985	114	429322	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.904	117	397287	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.396	95	320213	9.411	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 94.100%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.505	85	12809	0.545	ppbv		97
3) Chlorodifluoromethane	1.483	51	14172	0.632	ppbv		98
4) Chloromethane	1.541	50	4728	0.490	ppbv	#	79
5) Vinyl Chloride	1.589	62	4803	0.493	ppbv		97
6) Bromomethane	1.674	94	2791	0.669	ppbv	#	81
7) Chloroethane	1.716	64	2059	0.549	ppbv		94
8) Dichlorotetrafluoroethane	1.564	85	10699	0.528	ppbv		93
9) Propene	1.489	41	6731	0.862	ppbv		90
10) Heptane	5.011	43	17661m	0.915	ppbv		
11) Trichlorofluoromethane	1.887	101	13013	0.545	ppbv		97
12) 1,1,2-Trichlorotrifluo...	2.153	101	10592	0.596	ppbv		90
13) Ethanol	1.732	45	533m	0.600	ppbv		
14) Bromoethene	1.790	108	3822	0.656	ppbv	#	90
15) Acetone	1.848	43	15259	0.579	ppbv	#	83
16) 1,3-Butadiene	1.619	39	7024	0.680	ppbv		98
17) tert-Butyl alcohol	2.056	59	14992	0.657	ppbv	#	93
18) 1,1-Dichloroethene	2.046	96	4883	0.656	ppbv	#	88
19) Isopropyl Alcohol	1.900	45	7509	0.607	ppbv	#	95
20) Methylene Chloride	2.075	84	4849	0.644	ppbv		96
21) Allyl Chloride	2.107	41	8675	0.639	ppbv	#	91
22) trans-1,2-Dichloroethene	2.357	96	5632	0.677	ppbv		83
23) Vinyl Acetate	2.473	43	5348m	0.633	ppbv		
24) 1,1-Dichloroethane	2.421	63	10611	0.583	ppbv		98
25) Ethyl Acetate	2.855	43	31455	0.712	ppbv	#	97
26) Hexane	2.845	57	13451	0.877	ppbv		86
27) Carbon Disulfide	2.162	76	12466	0.856	ppbv	#	62
28) Methyl tert-Butyl Ether	2.460	73	10251	0.887	ppbv	#	79
29) Chloroform	2.865	83	18316	0.643	ppbv		93
30) Cyclohexane	3.884	84	11047m	0.949	ppbv		
31) cis-1,2-Dichloroethene	2.735	61	13045	0.826	ppbv		90
32) 1,1,1-Trichloroethane	3.389	97	17819	0.690	ppbv		95
34) 2-Butanone	2.577	43	19019	0.562	ppbv		96
35) Carbon Tetrachloride	3.787	117	15737	0.485	ppbv		96
36) Benzene	3.680	78	25621	0.625	ppbv	#	92
37) 1,2-Dichloroethane	3.237	62	14429	0.535	ppbv	#	90
38) Trichloroethene	4.577	130	10721m	0.667	ppbv		
39) 1,2-Dichloropropane	4.350	63	9384m	0.591	ppbv		
40) 1,4-Dioxane	4.638	88	4958m	0.806	ppbv		
41) Tetrahydrofuran	3.085	42	11404	0.715	ppbv	#	92
42) Bromodichloromethane	4.525	83	18000	0.569	ppbv	#	97
43) Methyl Methacrylate	4.923	69	10965m	0.851	ppbv		
44) 2,2,4-Trimethylpentane	4.668	57	44153m	0.653	ppbv		
45) t-1,3-Dichloropropene	6.451	75	10609	0.844	ppbv	#	88

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL010925\
Data File : VL041862.D
Acq On : 09 Jan 2025 12:53
Operator : SY/MD
Sample : VSTDICC0.5
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 09 13:33:10 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL010925AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Wed Jan 08 03:26:12 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations APPROVED
Reviewed By :Mahesh Dadoda 01/10/2025
Supervised By :Semsettin Yesilyurt 01/10/2025

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46)	cis-1,3-Dichloropropene	5.642	75	13758	0.832	ppbv		89
47)	1,1,2-Trichloroethane	6.626	97	9885m	0.589	ppbv		
48)	Dibromochloromethane	7.419	129	13671	0.640	ppbv		99
49)	Bromoform	9.510	173	11202	0.654	ppbv		98
50)	4-Methyl-2-Pentanone	5.810	43	26751m	0.685	ppbv		
51)	2-Hexanone	7.480	43	22189	0.750	ppbv	#	90
52)	Tetrachloroethene	8.254	164	9543	0.785	ppbv	#	88
53)	Toluene	6.966	91	30969	0.847	ppbv		98
54)	1,2-Dibromoethane	7.684	107	13281	0.646	ppbv		97
56)	1,1,1,2-Tetrachloroethane	8.950	131	12299	0.543	ppbv		92
57)	Chlorobenzene	8.946	112	23264	0.560	ppbv	#	95
58)	Ethyl Benzene	9.380	91	41863	0.773	ppbv		90
59)	m/p-Xylene	9.555	91	66716m	1.396	ppbv		
60)	o-Xylene	9.985	91	34021	0.732	ppbv		99
61)	Styrene	9.891	104	16798	0.931	ppbv		99
62)	Isopropylbenzene	10.558	105	50575	0.692	ppbv		99
63)	1,1,2,2-Tetrachloroethane	9.985	83	20172	0.495	ppbv		97
64)	n-propylbenzene	11.008	120	13351	0.712	ppbv		96
65)	tert-Butylbenzene	11.552	119	46079	0.700	ppbv		97
66)	Benzyl Chloride	11.633	91	4858	0.883	ppbv		99
67)	sec-Butylbenzene	11.788	105	65001	0.677	ppbv		96
69)	p-Isopropyltoluene	11.944	119	53789	0.713	ppbv		99
70)	n-Butylbenzene	12.300	91	55556	0.733	ppbv		99
71)	2-Chlorotoluene	10.921	91	40116	0.757	ppbv		99
72)	4-Ethyltoluene	11.144	105	40352	0.718	ppbv		99
73)	1,3,5-Trimethylbenzene	11.222	105	34365	0.698	ppbv		92
74)	1,2,4-Trimethylbenzene	11.555	105	37910	0.665	ppbv	#	82
75)	1,3-Dichlorobenzene	11.626	146	23642	0.619	ppbv		95
76)	1,4-Dichlorobenzene	11.691	146	23242	0.633	ppbv		98
77)	1,2-Dichlorobenzene	11.966	146	22337	0.561	ppbv		99
78)	Hexachloro-1,3-Butadiene	13.902	225	19853	0.703	ppbv		97
79)	Naphthalene	13.533	128	42331	1.007	ppbv	#	95
80)	Naphthalene,2-methyl-	14.478	142	23524	1.513	ppbv		96
81)	1,2,4-Trichlorobenzene	13.458	180	19980	0.858	ppbv		97

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

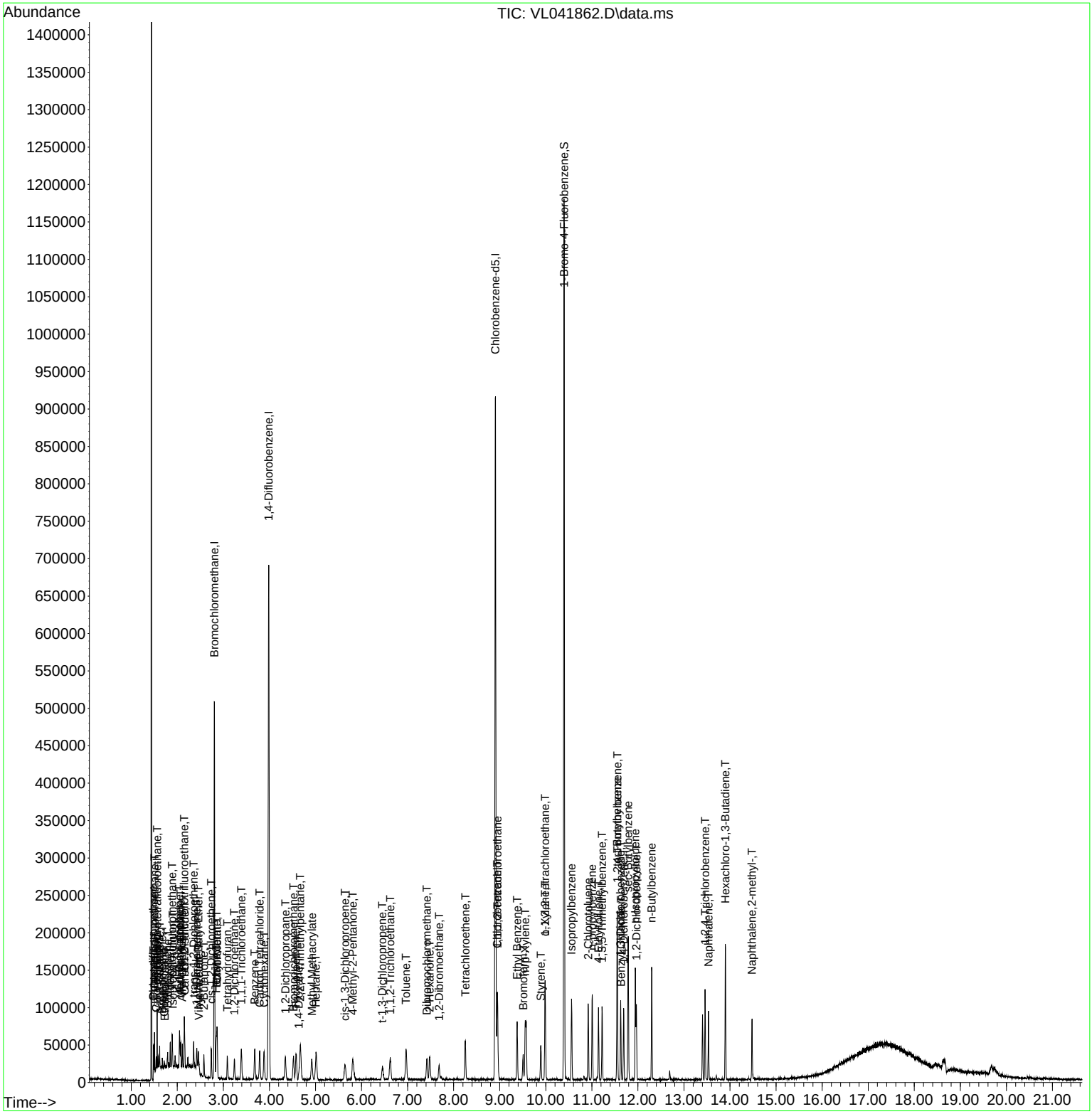
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL010925\
Data File : VL041862.D
Acq On : 09 Jan 2025 12:53
Operator : SY/MD
Sample : VSTDICC0.5
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 09 13:33:10 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL010925AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Wed Jan 08 03:26:12 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 01/10/2025
Supervised By :Semsettin Yesilyurt 01/10/2025



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL010925\
Data File : VL041863.D
Acq On : 09 Jan 2025 13:24
Operator : SY/MD
Sample : VSTDICC0.1
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 09 14:20:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL010925AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Thu Jan 09 13:37:17 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 01/10/2025
Supervised By :Semsettin Yesilyurt 01/10/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.806	49	140029	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.984	114	422202	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.907	117	386905	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.399	95	308324	9.304	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 93.000%			
Target Compounds						Qvalue
5) Vinyl Chloride	1.589	62	1043	0.109	ppbv	97
32) 1,1,1-Trichloroethane	3.395	97	3510m	0.139	ppbv	
35) Carbon Tetrachloride	3.793	117	3101m	0.097	ppbv	
38) Trichloroethene	4.580	130	2096m	0.133	ppbv	
52) Tetrachloroethene	8.247	164	2108m	0.176	ppbv	
54) 1,2-Dibromoethane	7.684	107	2320m	0.115	ppbv	
63) 1,1,2,2-Tetrachloroethane	9.992	83	4264	0.107	ppbv	96
79) Naphthalene	13.532	128	8145	0.199	ppbv	100

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

Quantitation Report (QT Reviewed)

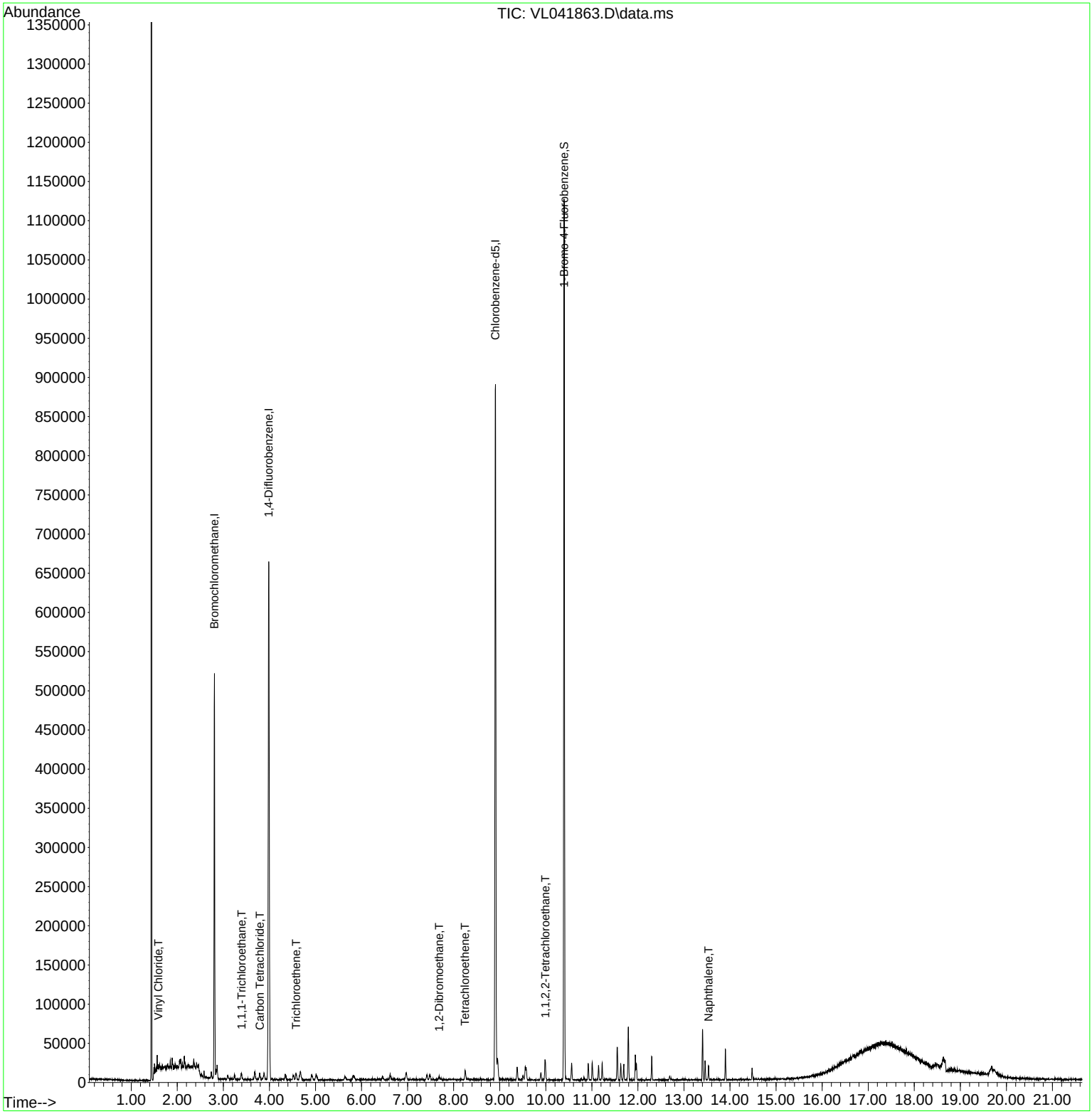
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL010925\
Data File : VL041863.D
Acq On : 09 Jan 2025 13:24
Operator : SY/MD
Sample : VSTDICC0.1
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 09 14:20:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL010925AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Thu Jan 09 13:37:17 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 01/10/2025
Supervised By :Semsettin Yesilyurt 01/10/2025



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL010925\
Data File : VL041864.D
Acq On : 09 Jan 2025 13:54
Operator : SY/MD
Sample : VSTDICC0.03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 09 14:27:50 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL010925AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Thu Jan 09 13:37:17 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Manual Integrations APPROVED
Reviewed By :Mahesh Dadoda 01/10/2025
Supervised By :Semsettin Yesilyurt 01/10/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.800	49	140652	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.982	114	417764	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.901	117	382336	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.393	95	308087	9.408	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 94.100%			
Target Compounds						Qvalue
5) Vinyl Chloride	1.590	62	375	0.039	ppbv	# 86
32) 1,1,1-Trichloroethane	3.389	97	1032m	0.041	ppbv	
35) Carbon Tetrachloride	3.791	117	1177m	0.037	ppbv	
38) Trichloroethene	4.580	130	518m	0.033	ppbv	
52) Tetrachloroethene	8.251	164	686	0.058	ppbv	# 49
63) 1,1,2,2-Tetrachloroethane	9.979	83	1052	0.027	ppbv	# 78

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

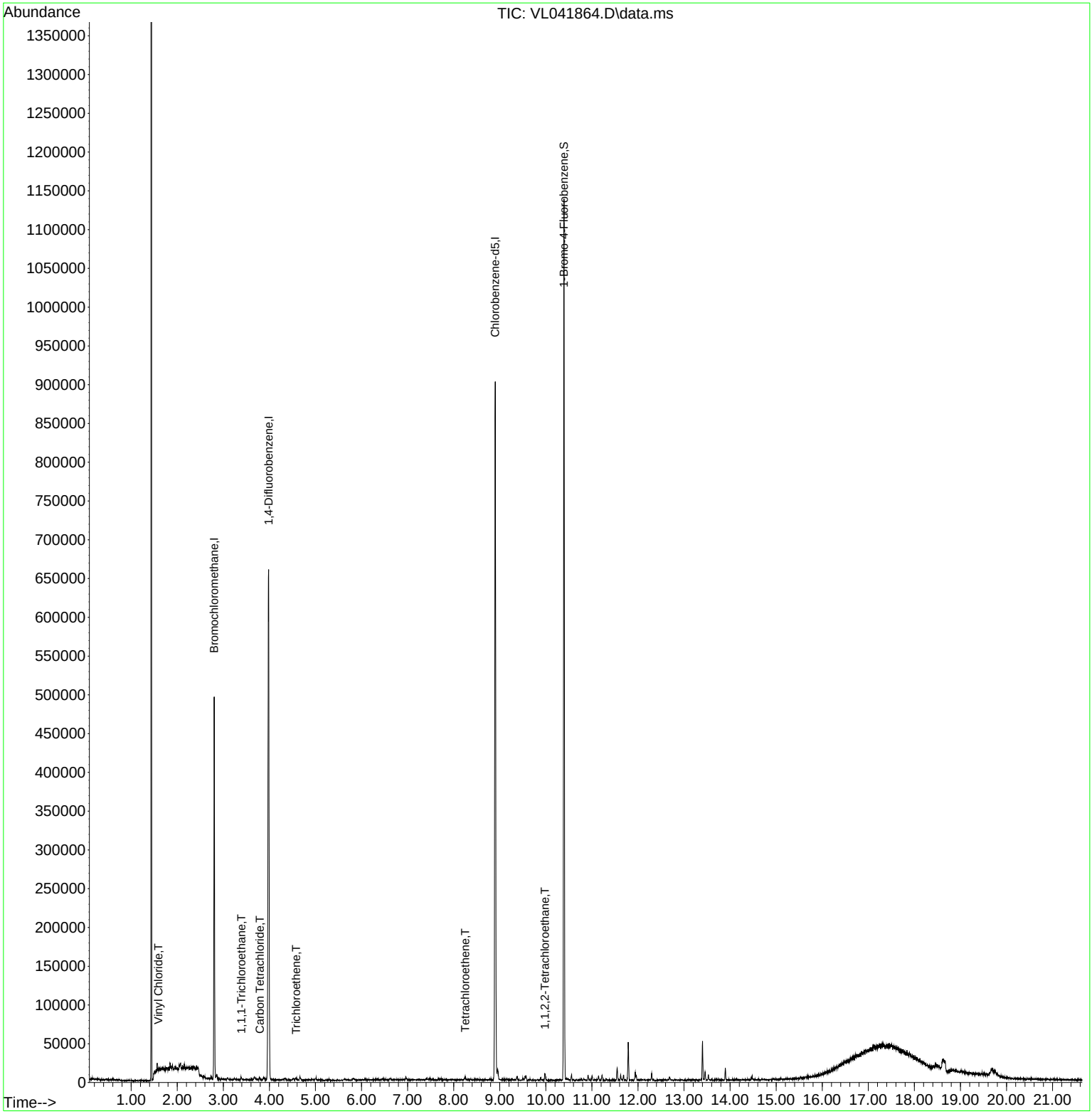
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL010925\
Data File : VL041864.D
Acq On : 09 Jan 2025 13:54
Operator : SY/MD
Sample : VSTDICC0.03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 09 14:27:50 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL010925AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Thu Jan 09 13:37:17 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 01/10/2025
Supervised By :Semsettin Yesilyurt 01/10/2025



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL010925\
Data File : VL041865.D
Acq On : 09 Jan 2025 14:27
Operator : SY/MD
Sample : VSTDICC015
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 09 14:50:25 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL010925AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Thu Jan 09 13:37:17 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations APPROVED
Reviewed By :Mahesh Dadoda 01/10/2025
Supervised By :Semsettin Yesilyurt 01/10/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.800	49	137279	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.981	114	407583	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.904	117	378604	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.393	95	299372	9.232	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 92.300%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.505	85	313199	13.904	ppbv		97
3) Chlorodifluoromethane	1.483	51	337217	15.668	ppbv		100
4) Chloromethane	1.538	50	123832	13.369	ppbv		97
5) Vinyl Chloride	1.586	62	121286	12.983	ppbv		100
6) Bromomethane	1.674	94	60238	15.053	ppbv		100
7) Chloroethane	1.713	64	50126	13.938	ppbv		99
8) Dichlorotetrafluoroethane	1.560	85	278524	14.332	ppbv		94
9) Propene	1.489	41	153753	20.521	ppbv		97
10) Heptane	5.007	43	414222	22.380	ppbv		95
11) Trichlorofluoromethane	1.887	101	330865	14.446	ppbv		97
12) 1,1,2-Trichlorotrifluo...	2.149	101	265740	15.579	ppbv		93
13) Ethanol	1.729	45	7417m	8.701	ppbv		
14) Bromoethene	1.790	108	96283	17.241	ppbv	#	97
15) Acetone	1.842	43	266190	10.532	ppbv		95
16) 1,3-Butadiene	1.615	39	126652	12.779	ppbv		92
17) tert-Butyl alcohol	2.049	59	359488	16.415	ppbv		99
18) 1,1-Dichloroethene	2.043	96	119220	16.693	ppbv		89
19) Isopropyl Alcohol	1.894	45	160227	13.505	ppbv	#	1
20) Methylene Chloride	2.072	84	99639	13.790	ppbv		86
21) Allyl Chloride	2.107	41	206645	15.872	ppbv		90
22) trans-1,2-Dichloroethene	2.353	96	135232	16.942	ppbv		91
23) Vinyl Acetate	2.476	43	172469	21.278	ppbv	#	93
24) 1,1-Dichloroethane	2.421	63	258532	14.799	ppbv		98
25) Ethyl Acetate	2.852	43	804978	18.993	ppbv		98
26) Hexane	2.842	57	323683	22.004	ppbv		88
27) Carbon Disulfide	2.162	76	327476	23.457	ppbv	#	91
28) Methyl tert-Butyl Ether	2.454	73	238377	21.502	ppbv		98
29) Chloroform	2.865	83	453699	16.603	ppbv		97
30) Cyclohexane	3.878	84	283640	25.414	ppbv		89
31) cis-1,2-Dichloroethene	2.735	61	319115	21.076	ppbv		95
32) 1,1,1-Trichloroethane	3.389	97	467121	18.862	ppbv		94
34) 2-Butanone	2.570	43	467080	14.548	ppbv		96
35) Carbon Tetrachloride	3.784	117	460791	14.959	ppbv		93
36) Benzene	3.677	78	663984	17.053	ppbv		95
37) 1,2-Dichloroethane	3.237	62	353759	13.820	ppbv	#	96
38) Trichloroethene	4.577	130	262977	17.230	ppbv		97
39) 1,2-Dichloropropane	4.341	63	238460	15.832	ppbv	#	84
40) 1,4-Dioxane	4.609	88	117449	20.124	ppbv	#	84
41) Tetrahydrofuran	3.072	42	273858	18.096	ppbv		92
42) Bromodichloromethane	4.515	83	507098	16.892	ppbv		100
43) Methyl Methacrylate	4.910	69	276446	22.609	ppbv		89
44) 2,2,4-Trimethylpentane	4.668	57	1112501	17.341	ppbv		93
45) t-1,3-Dichloropropene	6.448	75	290137	24.306	ppbv		91

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL010925\
Data File : VL041865.D
Acq On : 09 Jan 2025 14:27
Operator : SY/MD
Sample : VSTDICC015
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 09 14:50:25 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL010925AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Thu Jan 09 13:37:17 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations APPROVED
Reviewed By :Mahesh Dadoda 01/10/2025
Supervised By :Semsettin Yesilyurt 01/10/2025

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46)	cis-1,3-Dichloropropene	5.635	75	370479	23.592	ppbv	#	85
47)	1,1,2-Trichloroethane	6.616	97	252224	15.833	ppbv		96
48)	Dibromochloromethane	7.412	129	408959	20.167	ppbv		99
49)	Bromoform	9.503	173	362905	22.331	ppbv		99
50)	4-Methyl-2-Pentanone	5.787	43	680330	18.341	ppbv		92
51)	2-Hexanone	7.461	43	557793	19.852	ppbv	#	87
52)	Tetrachloroethene	8.247	164	233663	20.236	ppbv		97
53)	Toluene	6.966	91	796461	22.957	ppbv		99
54)	1,2-Dibromoethane	7.678	107	353045	18.098	ppbv		98
56)	1,1,1,2-Tetrachloroethane	8.946	131	318489	14.760	ppbv		99
57)	Chlorobenzene	8.943	112	578775	14.632	ppbv		100
58)	Ethyl Benzene	9.377	91	1081235	20.954	ppbv		100
59)	m/p-Xylene	9.574	91	1713669m	37.624	ppbv		
60)	o-Xylene	9.985	91	840494	18.971	ppbv		99
61)	Styrene	9.892	104	431280	25.091	ppbv		98
62)	Isopropylbenzene	10.558	105	1247161	17.917	ppbv		100
63)	1,1,2,2-Tetrachloroethane	9.982	83	496124	12.770	ppbv		100
64)	n-propylbenzene	11.008	120	326937	18.307	ppbv		90
65)	tert-Butylbenzene	11.549	119	1082296	17.255	ppbv		97
66)	Benzyl Chloride	11.633	91	113138	21.582	ppbv		96
67)	sec-Butylbenzene	11.785	105	1472665	16.090	ppbv		97
69)	p-Isopropyltoluene	11.944	119	1277666	17.781	ppbv		98
70)	n-Butylbenzene	12.300	91	1262477	17.488	ppbv		95
71)	2-Chlorotoluene	10.921	91	958596	18.973	ppbv		100
72)	4-Ethyltoluene	11.144	105	1009262	18.837	ppbv		98
73)	1,3,5-Trimethylbenzene	11.222	105	866209	18.459	ppbv		96
74)	1,2,4-Trimethylbenzene	11.555	105	905561	16.660	ppbv		92
75)	1,3-Dichlorobenzene	11.626	146	550141	15.122	ppbv		98
76)	1,4-Dichlorobenzene	11.688	146	550306	15.719	ppbv		98
77)	1,2-Dichlorobenzene	11.966	146	519421	13.701	ppbv		99
78)	Hexachloro-1,3-Butadiene	13.898	225	411642	15.294	ppbv		99
79)	Naphthalene	13.529	128	896443	22.388	ppbv		98
80)	Naphthalene,2-methyl-	14.475	142	442992	29.892	ppbv		98
81)	1,2,4-Trichlorobenzene	13.458	180	436412	19.665	ppbv		99

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

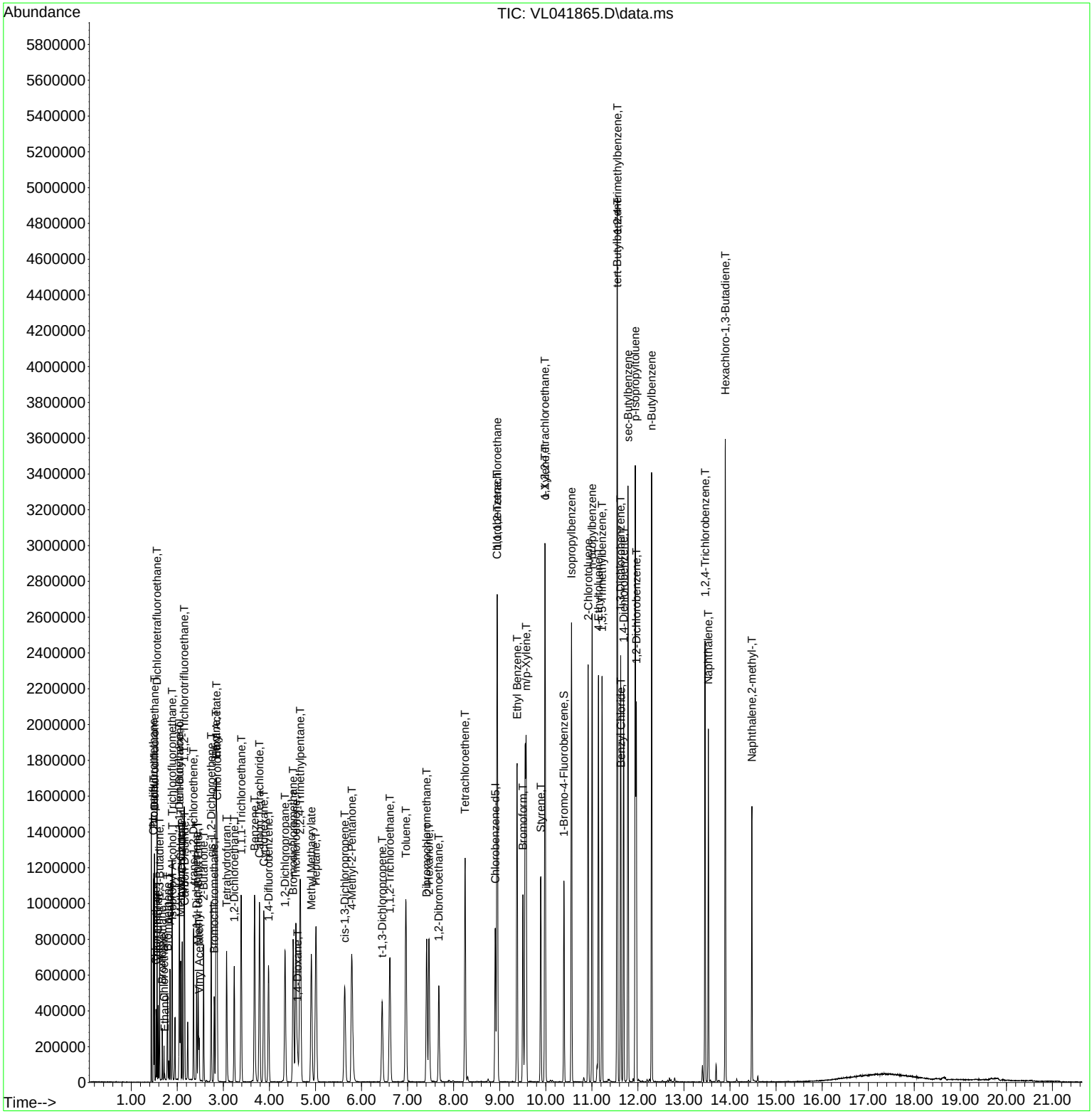
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL010925\
Data File : VL041865.D
Acq On : 09 Jan 2025 14:27
Operator : SY/MD
Sample : VSTDICC015
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 09 14:50:25 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL010925AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Thu Jan 09 13:37:17 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 01/10/2025
Supervised By :Semsettin Yesilyurt 01/10/2025



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL010925\
Data File : VL041866.D
Acq On : 09 Jan 2025 15:15
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 09 15:38:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL010925AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Thu Jan 09 15:10:07 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
ICVVL010925

Manual Integrations APPROVED
Reviewed By :Mahesh Dadoda 01/10/2025
Supervised By :Semsettin Yesilyurt 01/10/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.800	49	133443	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.978	114	399044	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.901	117	363459	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.393	95	291470	10.001	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 100.000%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.502	85	213962	9.767	ppbv		99
3) Chlorodifluoromethane	1.479	51	225635	9.377	ppbv		100
4) Chloromethane	1.538	50	80251	9.424	ppbv		97
5) Vinyl Chloride	1.586	62	79865	8.819	ppbv		99
6) Bromomethane	1.674	94	37306	8.740	ppbv		98
7) Chloroethane	1.709	64	31703	9.031	ppbv		100
8) Dichlorotetrafluoroethane	1.560	85	181663	9.538	ppbv		94
9) Propene	1.489	41	99446	8.857	ppbv		99
10) Heptane	5.004	43	273051	9.222	ppbv		95
11) Trichlorofluoromethane	1.884	101	215460	9.569	ppbv		96
12) 1,1,2-Trichlorotrifluo...	2.149	101	171593	9.420	ppbv		92
13) Ethanol	1.729	45	5044m	7.073	ppbv		
14) Bromoethene	1.787	108	61700	9.463	ppbv		97
15) Acetone	1.842	43	172416	7.661	ppbv		94
16) 1,3-Butadiene	1.615	39	83662	8.654	ppbv		93
17) tert-Butyl alcohol	2.049	59	246893	9.669	ppbv		100
18) 1,1-Dichloroethene	2.043	96	79001	9.584	ppbv		81
19) Isopropyl Alcohol	1.894	45	103696	8.766	ppbv	#	1
20) Methylene Chloride	2.069	84	65389	8.517	ppbv		91
21) Allyl Chloride	2.104	41	131366	9.122	ppbv		93
22) trans-1,2-Dichloroethene	2.350	96	87967	9.216	ppbv		92
23) Vinyl Acetate	2.473	43	107320	9.411	ppbv	#	93
24) 1,1-Dichloroethane	2.418	63	167453	9.264	ppbv		99
25) Ethyl Acetate	2.849	43	537722	9.615	ppbv		99
26) Hexane	2.839	57	213717	9.290	ppbv		89
27) Carbon Disulfide	2.159	76	211082	9.579	ppbv	#	88
28) Methyl tert-Butyl Ether	2.454	73	150727	8.585	ppbv		99
29) Chloroform	2.861	83	302132	9.385	ppbv		98
30) Cyclohexane	3.878	84	187848	9.508	ppbv	#	88
31) cis-1,2-Dichloroethene	2.732	61	215939	9.604	ppbv		97
32) 1,1,1-Trichloroethane	3.383	97	308704	9.654	ppbv		95
34) 2-Butanone	2.567	43	305484	9.209	ppbv		97
35) Carbon Tetrachloride	3.781	117	302110	9.742	ppbv		97
36) Benzene	3.674	78	448544	9.689	ppbv		96
37) 1,2-Dichloroethane	3.234	62	233663	9.621	ppbv	#	96
38) Trichloroethene	4.570	130	171695	9.393	ppbv		96
39) 1,2-Dichloropropane	4.334	63	157431	9.560	ppbv	#	85
40) 1,4-Dioxane	4.606	88	74011	8.937	ppbv	#	76
41) Tetrahydrofuran	3.069	42	181706	9.327	ppbv		92
42) Bromodichloromethane	4.512	83	329142	9.864	ppbv		97
43) Methyl Methacrylate	4.907	69	179603	9.474	ppbv		87
44) 2,2,4-Trimethylpentane	4.668	57	741253	9.479	ppbv		93
45) t-1,3-Dichloropropene	6.444	75	182207	9.391	ppbv		97

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL010925\
Data File : VL041866.D
Acq On : 09 Jan 2025 15:15
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 09 15:38:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL010925AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Thu Jan 09 15:10:07 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
ICVVL010925

Manual Integrations APPROVED
Reviewed By :Mahesh Dadoda 01/10/2025
Supervised By :Semsettin Yesilyurt 01/10/2025

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46)	cis-1,3-Dichloropropene	5.632	75	236106	9.483	ppbv		87
47)	1,1,2-Trichloroethane	6.610	97	165331	9.543	ppbv		95
48)	Dibromochloromethane	7.409	129	266338	10.137	ppbv		99
49)	Bromoform	9.500	173	230376	10.047	ppbv		99
50)	4-Methyl-2-Pentanone	5.784	43	447733	9.458	ppbv		92
51)	2-Hexanone	7.458	43	363718	9.341	ppbv	#	89
52)	Tetrachloroethene	8.244	164	151399	8.536	ppbv		96
53)	Toluene	6.959	91	517284	9.395	ppbv		100
54)	1,2-Dibromoethane	7.674	107	226153	9.598	ppbv		99
56)	1,1,1,2-Tetrachloroethane	8.943	131	209474	9.669	ppbv		100
57)	Chlorobenzene	8.940	112	383752	9.470	ppbv		97
58)	Ethyl Benzene	9.374	91	717041	9.595	ppbv		99
59)	m/p-Xylene	9.548	91	1117121m	18.915	ppbv		
60)	o-Xylene	9.982	91	555689	9.433	ppbv		99
61)	Styrene	9.888	104	276061	9.385	ppbv		98
62)	Isopropylbenzene	10.555	105	835024	9.415	ppbv		100
63)	1,1,2,2-Tetrachloroethane	9.979	83	327345	9.252	ppbv		100
64)	n-propylbenzene	11.002	120	211515	9.153	ppbv		98
65)	tert-Butylbenzene	11.545	119	747696	9.315	ppbv		96
66)	Benzyl Chloride	11.630	91	68070	8.187	ppbv		95
67)	sec-Butylbenzene	11.782	105	1020583	9.228	ppbv		99
69)	p-Isopropyltoluene	11.940	119	862841	9.143	ppbv		98
70)	n-Butylbenzene	12.296	91	843727	8.907	ppbv		98
71)	2-Chlorotoluene	10.917	91	625951	9.116	ppbv		100
72)	4-Ethyltoluene	11.141	105	668428	9.254	ppbv		99
73)	1,3,5-Trimethylbenzene	11.218	105	572229	9.332	ppbv		99
74)	1,2,4-Trimethylbenzene	11.552	105	607041	9.114	ppbv		91
75)	1,3-Dichlorobenzene	11.623	146	348741	8.734	ppbv		99
76)	1,4-Dichlorobenzene	11.688	146	351167	8.884	ppbv		98
77)	1,2-Dichlorobenzene	11.963	146	336372	8.912	ppbv		99
78)	Hexachloro-1,3-Butadiene	13.895	225	247845	7.639	ppbv		99
79)	Naphthalene	13.526	128	544143	7.583	ppbv		99
80)	Naphthalene,2-methyl-	14.471	142	232206	6.000	ppbv		97
81)	1,2,4-Trichlorobenzene	13.455	180	269501	7.888	ppbv		98

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

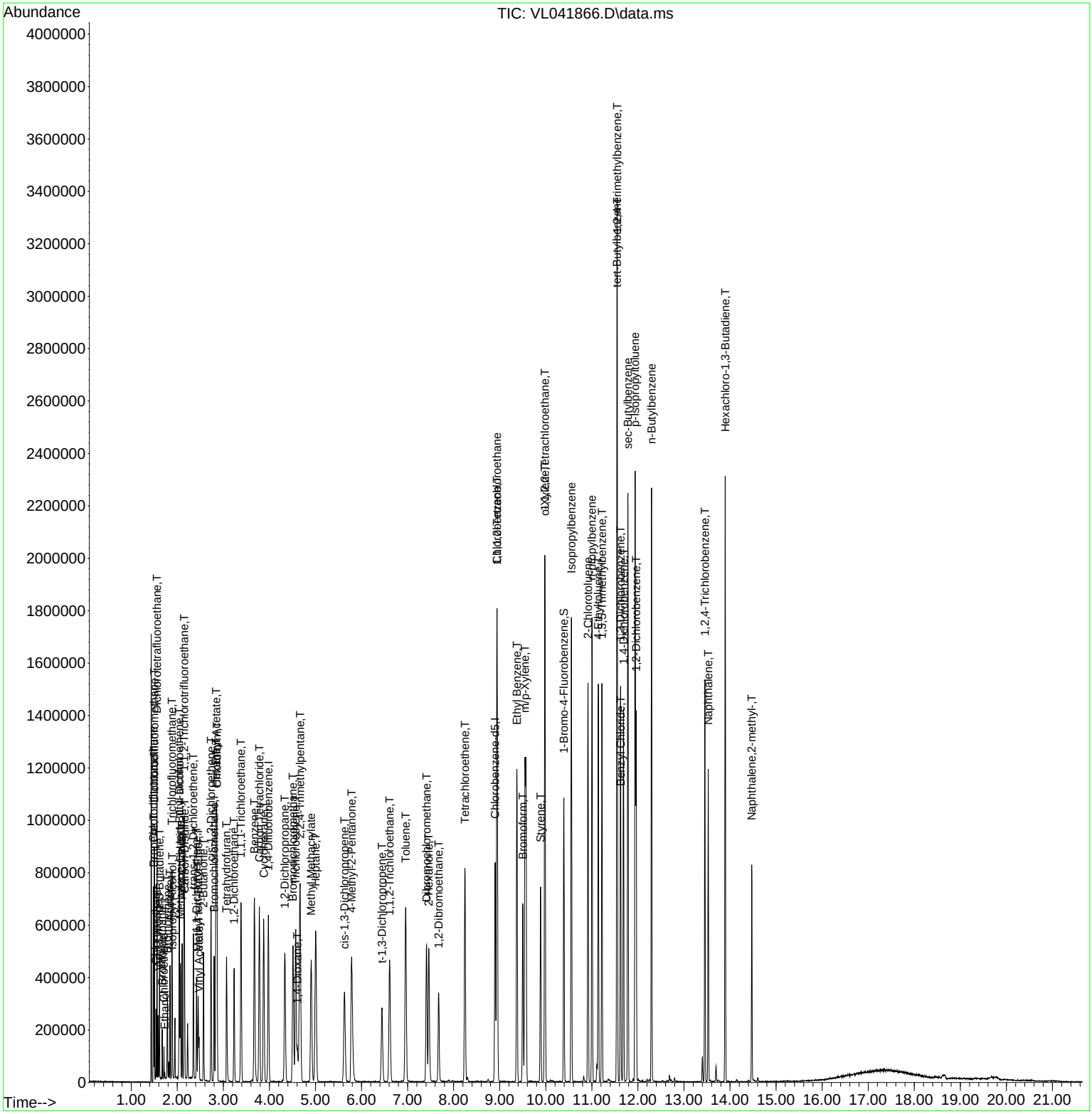
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL010925\
Data File : VL041866.D
Acq On : 09 Jan 2025 15:15
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 09 15:38:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL010925AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Thu Jan 09 15:10:07 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
ICVVL010925

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 01/10/2025
Supervised By :Semsettin Yesilyurt 01/10/2025



Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL010925\
Data File : VL041866.D
Acq On : 09 Jan 2025 15:15
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
ICVVL010925

Quant Time: Jan 09 15:38:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL010925AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Thu Jan 09 15:10:07 2025
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Bromochloromethane	1.000	1.000	0.0	89	0.00
2	T	Dichlorodifluoromethane	1.642	1.603	2.4	95	0.00
3		Chlorodifluoromethane	1.803	1.691	6.2	91	0.00
4		Chloromethane	0.638	0.601	5.8	94	0.00
5	T	Vinyl Chloride	0.679	0.598	11.9	92	0.00
6	T	Bromomethane	0.320	0.280	12.5	94	0.00
7		Chloroethane	0.263	0.238	9.5	92	0.00
8	T	Dichlorotetrafluoroethane	1.427	1.361	4.6	93	0.00
9	T	Propene	0.841	0.745	11.4	89	0.00
10	T	Heptane	2.219	2.046	7.8	90	0.00
11	T	Trichlorofluoromethane	1.687	1.615	4.3	97	0.00
12	T	1,1,2-Trichlorotrifluoroeth	1.365	1.286	5.8	95	0.00
13		Ethanol	0.053	0.038#	28.3	96	0.00
14	T	Bromoethene	0.489	0.462	5.5	94	0.00
15	T	Acetone	1.687	1.292	23.4	94	0.00
16	T	1,3-Butadiene	0.724	0.627	13.4	97	0.00
17		tert-Butyl alcohol	1.914	1.850	3.3	96	0.00
18	T	1,1-Dichloroethene	0.618	0.592	4.2	97	0.00
19	T	Isopropyl Alcohol	0.886	0.777	12.3	94	0.00
20	T	Methylene Chloride	0.575	0.490	14.8	91	0.00
21	T	Allyl Chloride	1.079	0.984	8.8	93	0.00
22	T	trans-1,2-Dichloroethene	0.715	0.659	7.8	96	0.00
23	T	Vinyl Acetate	0.855	0.804	6.0	88	0.00
24	T	1,1-Dichloroethane	1.355	1.255	7.4	94	0.00
25	T	Ethyl Acetate	4.191	4.030	3.8	91	0.00
26	T	Hexane	1.724	1.602	7.1	90	0.00
27	T	Carbon Disulfide	1.651	1.582	4.2	93	0.00
28	T	Methyl tert-Butyl Ether	1.316	1.130	14.1	88	0.00
29	T	Chloroform	2.412	2.264	6.1	92	0.00
30	T	Cyclohexane	1.481	1.408	4.9	92	0.00
31	T	cis-1,2-Dichloroethene	1.685	1.618	4.0	94	0.00
32	T	1,1,1-Trichloroethane	2.396	2.313	3.5	94	0.00
33	I	1,4-Difluorobenzene	1.000	1.000	0.0	90	0.00
34	T	2-Butanone	0.831	0.766	7.8	92	0.00
35	T	Carbon Tetrachloride	0.777	0.757	2.6	93	0.00
36	T	Benzene	1.160	1.124	3.1	92	0.00
37	T	1,2-Dichloroethane	0.609	0.586	3.8	93	0.00
38	T	Trichloroethene	0.458	0.430	6.1	91	0.00
39	T	1,2-Dichloropropane	0.413	0.395	4.4	92	0.00
40	T	1,4-Dioxane	0.208	0.185	11.1	88	0.00
41	T	Tetrahydrofuran	0.488	0.455	6.8	90	0.00
42	T	Bromodichloromethane	0.836	0.825	1.3	92	0.00
43		Methyl Methacrylate	0.475	0.450	5.3	90	0.00
44	T	2,2,4-Trimethylpentane	1.960	1.858	5.2	92	0.00
45	T	t-1,3-Dichloropropene	0.486	0.457	6.0	86	0.00
46	T	cis-1,3-Dichloropropene	0.624	0.592	5.1	88	0.00
47	T	1,1,2-Trichloroethane	0.434	0.414	4.6	94	0.00
48	T	Dibromochloromethane	0.658	0.667	-1.4	92	0.00

Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL010925\
Data File : VL041866.D
Acq On : 09 Jan 2025 15:15
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
ICVVL010925

Quant Time: Jan 09 15:38:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL010925AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Thu Jan 09 15:10:07 2025
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49	T	Bromoform	0.575	0.577	-0.3	89	0.00
50	T	4-Methyl-2-Pentanone	1.186	1.122	5.4	91	-0.01
51	T	2-Hexanone	0.976	0.911	6.7	90	0.00
52	T	Tetrachloroethene	0.444	0.379	14.6	90	0.00
53	T	Toluene	1.380	1.296	6.1	90	0.00
54	T	1,2-Dibromoethane	0.590	0.567	3.9	91	0.00
55	I	Chlorobenzene-d5	1.000	1.000	0.0	89	0.00
56		1,1,1,2-Tetrachloroethane	0.596	0.576	3.4	93	0.00
57	T	Chlorobenzene	1.115	1.056	5.3	92	0.00
58	T	Ethyl Benzene	2.056	1.973	4.0	92	0.00
59	T	m/p-Xylene	1.625	1.537	5.4	92	0.00
60	T	o-Xylene	1.621	1.529	5.7	92	0.00
61	T	Styrene	0.809	0.760	6.1	87	0.00
62		Isopropylbenzene	2.440	2.297	5.9	91	0.00
63	T	1,1,2,2-Tetrachloroethane	0.973	0.901	7.4	90	0.00
64		n-propylbenzene	0.636	0.582	8.5	90	0.00
65		tert-Butylbenzene	2.208	2.057	6.8	93	0.00
66	T	Benzyl Chloride	0.229	0.187	18.3	77	0.00
67		sec-Butylbenzene	3.043	2.808	7.7	93	0.00
68	S	1-Bromo-4-Fluorobenzene	0.802	0.802	0.0	89	0.00
69		p-Isopropyltoluene	2.597	2.374	8.6	91	0.00
70		n-Butylbenzene	2.606	2.321	10.9	89	0.00
71		2-Chlorotoluene	1.889	1.722	8.8	89	0.00
72	T	4-Ethyltoluene	1.987	1.839	7.4	90	0.00
73	T	1,3,5-Trimethylbenzene	1.687	1.574	6.7	91	0.00
74	T	1,2,4-Trimethylbenzene	1.833	1.670	8.9	91	0.00
75	T	1,3-Dichlorobenzene	1.099	0.960	12.6	88	0.00
76	T	1,4-Dichlorobenzene	1.088	0.966	11.2	89	0.00
77	T	1,2-Dichlorobenzene	1.039	0.925	11.0	90	0.00
78	T	Hexachloro-1,3-Butadiene	0.893	0.682	23.6	85	0.00
79	T	Naphthalene	1.974	1.497	24.2	84	0.00
80	T	Naphthalene,2-methyl-	1.065	0.639	40.0#	74	0.00
81	T	1,2,4-Trichlorobenzene	0.940	0.741	21.2	86	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL010925\
Data File : VL041869.D
Acq On : 09 Jan 2025 17:01
Operator : SY/MD
Sample : VL0109ABL03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0109ABL03

Quant Time: Jan 10 01:41:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL010925AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Jan 10 00:31:30 2025
Response via : Initial Calibration

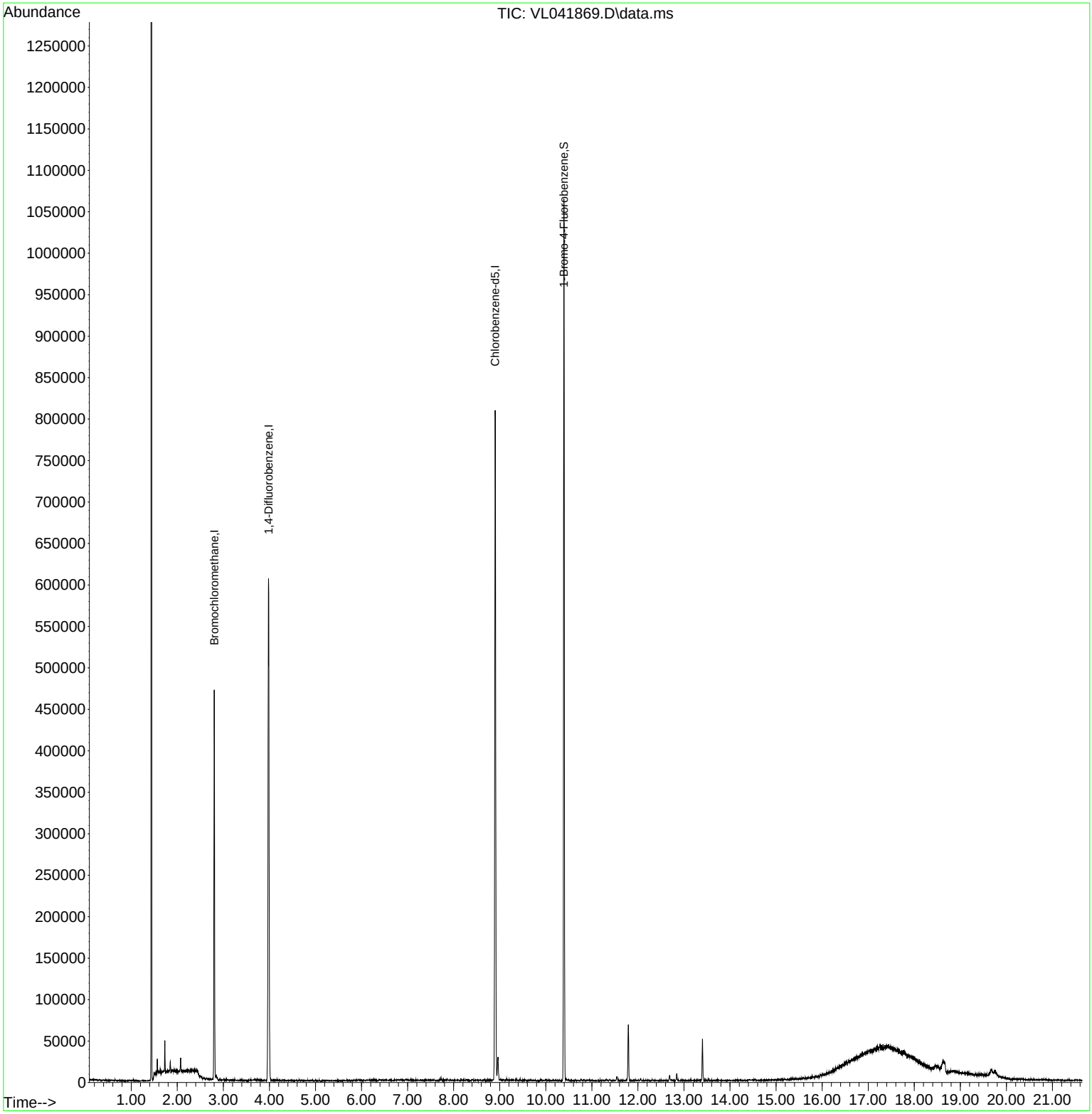
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.803	49	128032	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.981	114	380928	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.901	117	344690	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.393	95	280854	10.162	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 101.600%			
Target Compounds						Qvalue

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL010925\
Data File : VL041869.D
Acq On : 09 Jan 2025 17:01
Operator : SY/MD
Sample : VL0109ABL03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0109ABL03

Quant Time: Jan 10 01:41:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL010925AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Jan 10 00:31:30 2025
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL010925\
Data File : VL041870.D
Acq On : 09 Jan 2025 17:32
Operator : SY/MD
Sample : VL0109ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 10 01:42:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL010925AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Fri Jan 10 00:31:30 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VL0109ABS01

Manual Integrations APPROVED
Reviewed By :Mahesh Dadoda 01/10/2025
Supervised By :Semsettin Yesilyurt 01/10/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.803	49	122543	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.981	114	372014	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.904	117	340087	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.393	95	274569	10.069	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 100.700%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.505	85	214765	10.675	ppbv		99
3) Chlorodifluoromethane	1.483	51	219609	9.938	ppbv		98
4) Chloromethane	1.538	50	79635	10.183	ppbv		99
5) Vinyl Chloride	1.586	62	78642	9.456	ppbv		99
6) Bromomethane	1.674	94	37722	9.624	ppbv		98
7) Chloroethane	1.713	64	32686	10.139	ppbv		100
8) Dichlorotetrafluoroethane	1.560	85	180586	10.325	ppbv		98
9) Propene	1.489	41	97956	9.500	ppbv		100
10) Heptane	5.007	43	265739	9.773	ppbv		99
11) Trichlorofluoromethane	1.887	101	218631	10.573	ppbv		99
12) 1,1,2-Trichlorotrifluo...	2.149	101	176361	10.543	ppbv		96
13) Ethanol	1.729	45	6453	9.854	ppbv		95
14) Bromoethene	1.790	108	62928	10.509	ppbv		98
15) Acetone	1.842	43	174247	8.431	ppbv		97
16) 1,3-Butadiene	1.615	39	81413	9.171	ppbv		95
17) tert-Butyl alcohol	2.049	59	244537	10.428	ppbv		98
18) 1,1-Dichloroethene	2.043	96	78665	10.392	ppbv		99
19) Isopropyl Alcohol	1.894	45	102969	9.479	ppbv		99
20) Methylene Chloride	2.072	84	66435	9.423	ppbv		95
21) Allyl Chloride	2.107	41	132275	10.002	ppbv		98
22) trans-1,2-Dichloroethene	2.353	96	87608	9.995	ppbv		98
23) Vinyl Acetate	2.476	43	97489	9.309	ppbv	#	98
24) 1,1-Dichloroethane	2.421	63	172510	10.392	ppbv	#	98
25) Ethyl Acetate	2.852	43	523764	10.198	ppbv		99
26) Hexane	2.842	57	210453	9.961	ppbv		99
27) Carbon Disulfide	2.162	76	208581	10.307	ppbv		99
28) Methyl tert-Butyl Ether	2.454	73	131707	8.169	ppbv		98
29) Chloroform	2.865	83	302447	10.231	ppbv		96
30) Cyclohexane	3.878	84	180360	9.941	ppbv		98
31) cis-1,2-Dichloroethene	2.735	61	208408	10.094	ppbv		97
32) 1,1,1-Trichloroethane	3.386	97	305295	10.396	ppbv		99
34) 2-Butanone	2.570	43	301434	9.747	ppbv		99
35) Carbon Tetrachloride	3.784	117	300238	10.385	ppbv		98
36) Benzene	3.677	78	433563	10.046	ppbv		98
37) 1,2-Dichloroethane	3.237	62	233267	10.302	ppbv		100
38) Trichloroethene	4.574	130	174343m	10.231	ppbv		
39) 1,2-Dichloropropane	4.337	63	152646	9.943	ppbv		97
40) 1,4-Dioxane	4.613	88	69319	8.979	ppbv	#	87
41) Tetrahydrofuran	3.072	42	169639	9.340	ppbv		96
42) Bromodichloromethane	4.515	83	324422	10.429	ppbv		99
43) Methyl Methacrylate	4.907	69	175507	9.930	ppbv		99
44) 2,2,4-Trimethylpentane	4.668	57	725640	9.954	ppbv		99
45) t-1,3-Dichloropropene	6.444	75	175855	9.722	ppbv		100

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL010925\
Data File : VL041870.D
Acq On : 09 Jan 2025 17:32
Operator : SY/MD
Sample : VL0109ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 10 01:42:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL010925AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Fri Jan 10 00:31:30 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VL0109ABS01

Manual Integrations APPROVED
Reviewed By :Mahesh Dadoda 01/10/2025
Supervised By :Semsettin Yesilyurt 01/10/2025

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46)	cis-1,3-Dichloropropene	5.632	75	224860	9.688	ppbv		99
47)	1,1,2-Trichloroethane	6.616	97	161735	10.013	ppbv		98
48)	Dibromochloromethane	7.412	129	261021	10.656	ppbv		98
49)	Bromoform	9.503	173	224507	10.502	ppbv		100
50)	4-Methyl-2-Pentanone	5.784	43	429608	9.735	ppbv		100
51)	2-Hexanone	7.464	43	348688	9.606	ppbv		100
52)	Tetrachloroethene	8.247	164	147986	8.949	ppbv		97
53)	Toluene	6.962	91	508818	9.913	ppbv		100
54)	1,2-Dibromoethane	7.678	107	222055	10.109	ppbv		98
56)	1,1,1,2-Tetrachloroethane	8.946	131	204382	10.083	ppbv		99
57)	Chlorobenzene	8.943	112	374449	9.875	ppbv		98
58)	Ethyl Benzene	9.374	91	697634	9.977	ppbv		98
59)	m/p-Xylene	9.571	91	1094652m	19.809	ppbv		
60)	o-Xylene	9.982	91	542913	9.850	ppbv		100
61)	Styrene	9.888	104	270452	9.826	ppbv		99
62)	Isopropylbenzene	10.558	105	823744	9.926	ppbv		99
63)	1,1,2,2-Tetrachloroethane	9.982	83	320068	9.668	ppbv		99
64)	n-propylbenzene	11.005	120	210154	9.719	ppbv		97
65)	tert-Butylbenzene	11.549	119	733119	9.761	ppbv		99
66)	Benzyl Chloride	11.633	91	59367	7.631	ppbv		99
67)	sec-Butylbenzene	11.785	105	997840	9.642	ppbv		99
69)	p-Isopropyltoluene	11.944	119	845742	9.577	ppbv		99
70)	n-Butylbenzene	12.296	91	833307	9.402	ppbv		99
71)	2-Chlorotoluene	10.918	91	615640	9.582	ppbv		99
72)	4-Ethyltoluene	11.141	105	656224	9.710	ppbv		99
73)	1,3,5-Trimethylbenzene	11.222	105	562687	9.807	ppbv		99
74)	1,2,4-Trimethylbenzene	11.552	105	586850	9.416	ppbv	#	84
75)	1,3-Dichlorobenzene	11.623	146	344200	9.212	ppbv		100
76)	1,4-Dichlorobenzene	11.688	146	343950	9.299	ppbv		99
77)	1,2-Dichlorobenzene	11.963	146	328031	9.288	ppbv		99
78)	Hexachloro-1,3-Butadiene	13.898	225	243823	8.032	ppbv		99
79)	Naphthalene	13.529	128	523668	7.800	ppbv		98
80)	Naphthalene,2-methyl-	14.475	142	200530	5.538	ppbv		99
81)	1,2,4-Trichlorobenzene	13.458	180	254295	7.954	ppbv		99

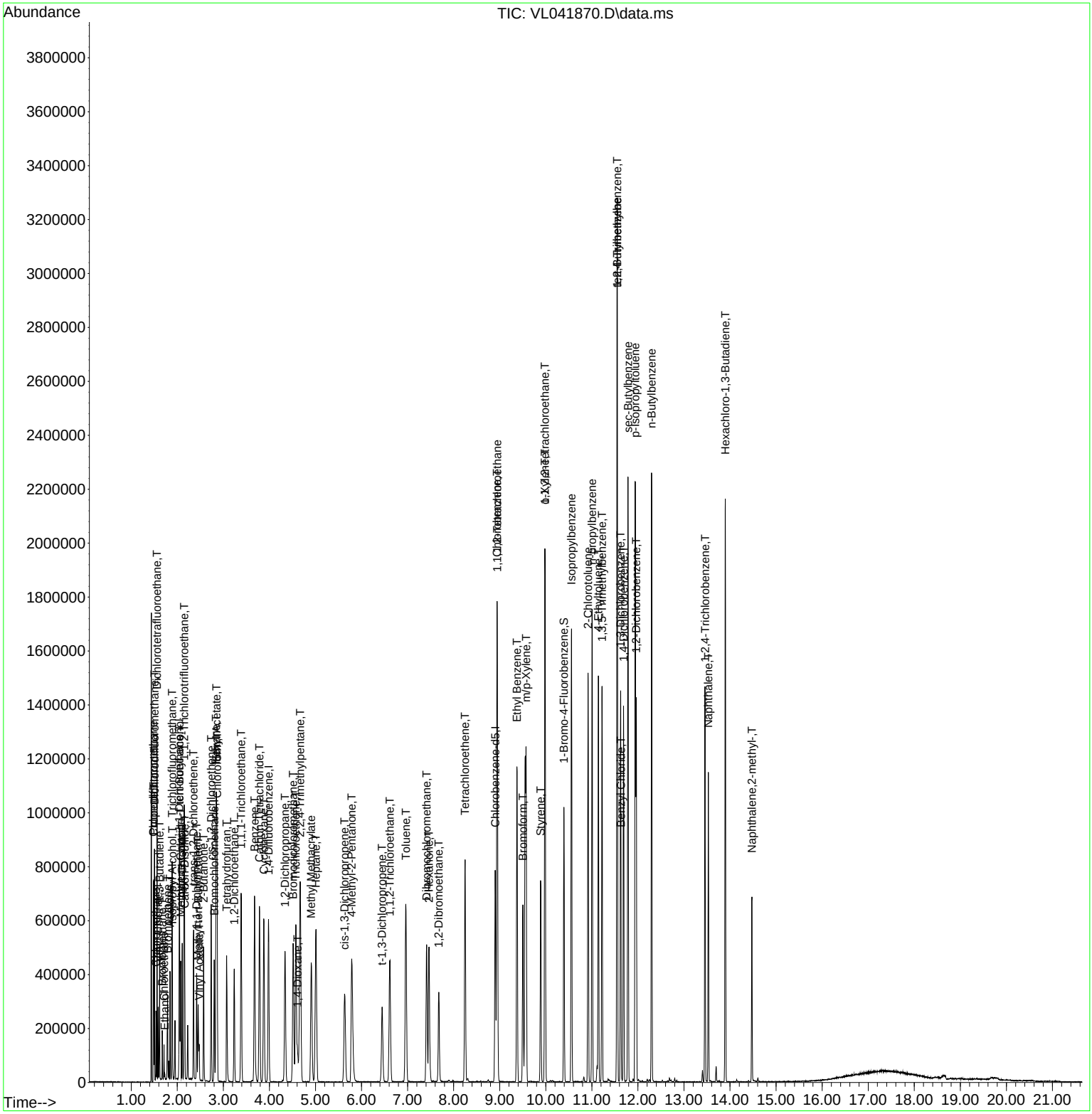
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL010925\
Data File : VL041870.D
Acq On : 09 Jan 2025 17:32
Operator : SY/MD
Sample : VL0109ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 10 01:42:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL010925AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Jan 10 00:31:30 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VL0109ABS01

Manual Integrations APPROVED
Reviewed By :Mahesh Dadoda 01/10/2025
Supervised By :Semsettin Yesilyurt 01/10/2025



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL010925\
Data File : VL041876.D
Acq On : 09 Jan 2025 20:46
Operator : SY/MD
Sample : QC010725 CAN 10601
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
QC010725 CAN 10601

Quant Time: Jan 10 01:48:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL010925AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Jan 10 00:31:30 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.800	49	114286	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.978	114	340666	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.898	117	300213	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.390	95	248334	10.316	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 103.200%			
Target Compounds						Qvalue

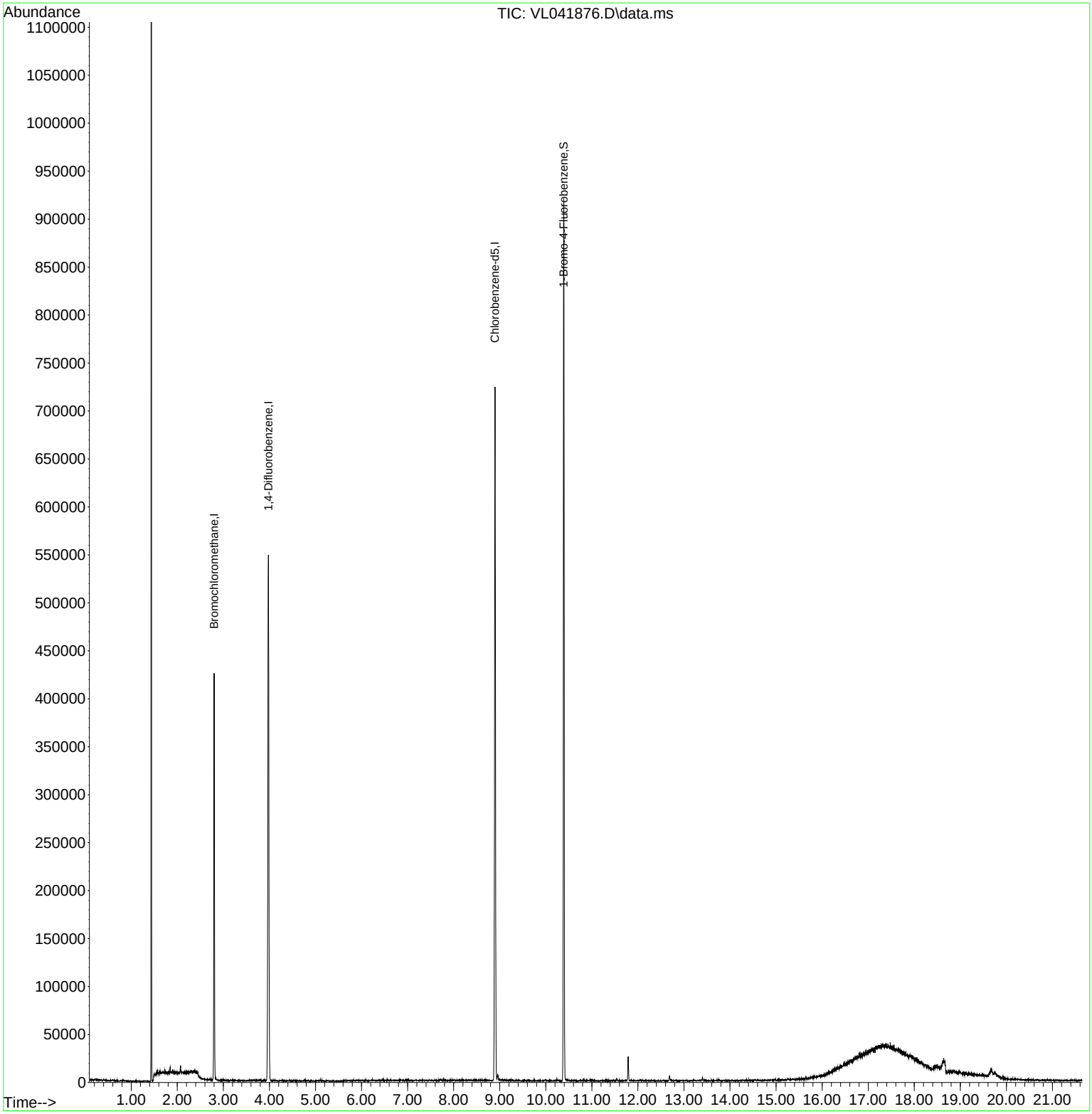
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL010925\
Data File : VL041876.D
Acq On : 09 Jan 2025 20:46
Operator : SY/MD
Sample : QC010725 CAN 10601
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
QC010725 CAN 10601

Quant Time: Jan 10 01:48:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL010925AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Jan 10 00:31:30 2025
Response via : Initial Calibration



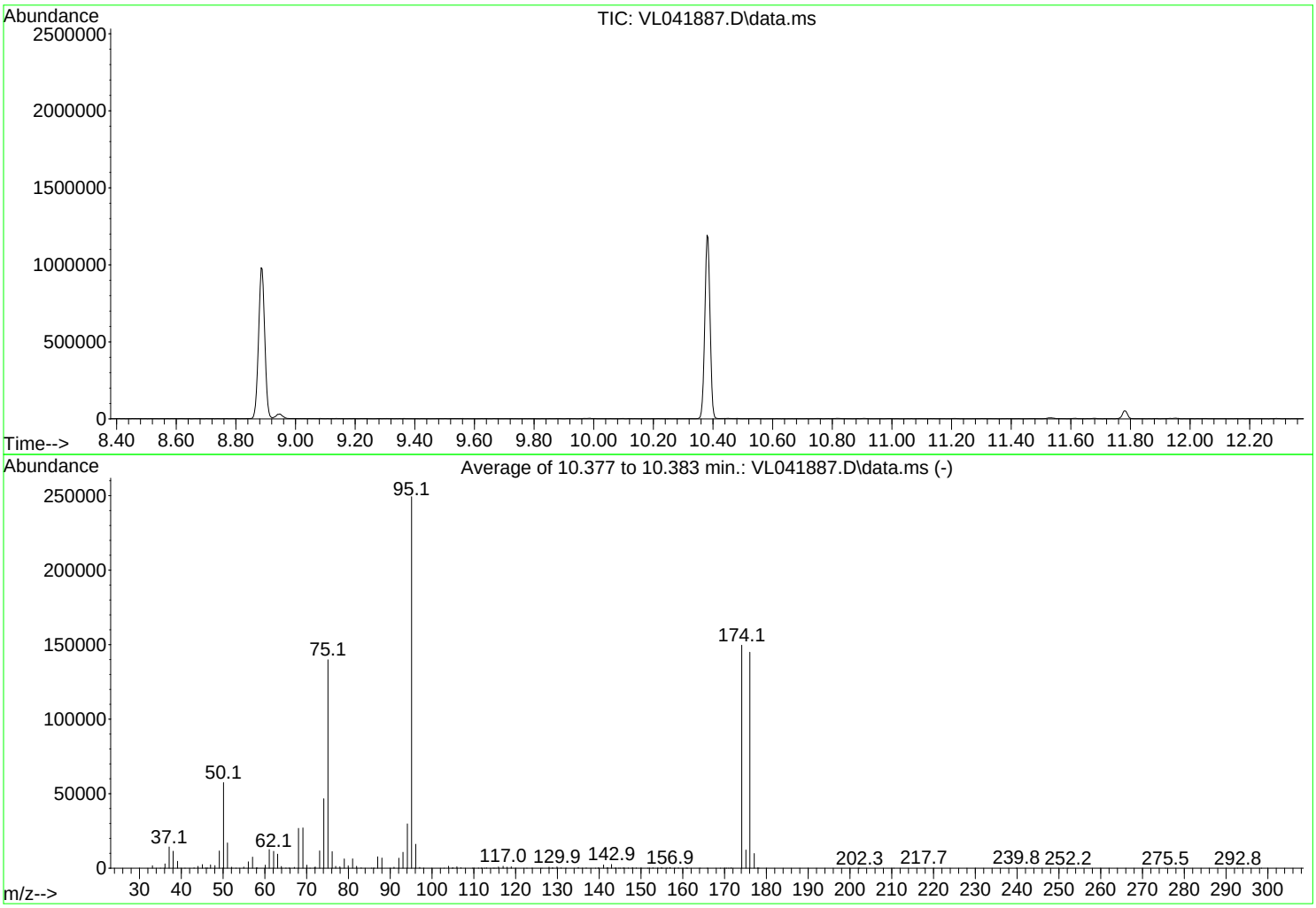
BFB

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041887.D
Acq On : 14 Jan 2025 07:50
Operator : SY/MD
Sample : BFB
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
Last Update : Tue Jan 14 23:15:42 2025



AutoFind: Scans 3179, 3180, 3181; Background Corrected with Scan 3165

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	23.0	57448	PASS
75	95	30	66	56.1	139893	PASS
95	95	100	100	100.0	249280	PASS
96	95	5	9	6.5	16102	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	60.0	149632	PASS
175	174	4	9	8.2	12223	PASS
176	174	93	101	96.8	144917	PASS
177	176	5	9	6.8	9838	PASS

Response Factor Report MSVOA_L

Method Path : Z:\voasrv\HPCHEM1\MSVOA_L\methods\
Method File : VL011425AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
Last Update : Tue Jan 14 23:15:42 2025
Response Via : Initial Calibration

Calibration Files
0.03=VL041894.D 0.1 =VL041893.D 0.5 =VL041892.D 1 =VL041891.D 2 =VL041890.D 10 =VL041889.D 15 =VL041895.D

		Compound	0.03	0.1	0.5	1	2	10	15	Avg	%RSD
1)	I	Bromochloromethane	----------ISTD----------								
2)	T	Dichlorodifluo...			1.450	1.406	1.359	1.300	1.295	1.362	4.93
3)		Chlorodifluoro...			1.448	1.547	1.466	1.330	1.343	1.427	6.34
4)		Chloromethane			0.546	0.499	0.525	0.492	0.499	0.512	4.41
5)	T	Vinyl Chloride	0.504	0.578	0.561	0.531	0.502	0.466	0.491	0.519	7.62
6)	T	Bromomethane			0.253	0.274	0.248	0.229	0.233	0.247	7.30
7)		Chloroethane			0.210	0.205	0.209	0.193	0.194	0.202	4.08
8)	T	Dichlorotetraf...			1.282	1.198	1.225	1.095	1.151	1.190	5.99
9)	T	Propene			0.642	0.577	0.605	0.568	0.548	0.588	6.21
10)	T	Heptane			1.536	1.616	1.635	1.530	1.538	1.571	3.19
11)	T	Trichlorofluor...			1.488	1.417	1.435	1.335	1.410	1.417	3.87
12)	T	1,1,2-Trichlor...			1.098	1.137	1.166	1.057	1.095	1.110	3.78
13)		Ethanol			0.065	0.043	0.051	0.027	0.029	0.043#	36.98
14)	T	Bromoethene			0.420	0.445	0.403	0.371	0.393	0.407	6.93
15)	T	Acetone			1.405	1.301	1.256	0.991	1.051	1.201	14.50
16)	T	1,3-Butadiene			0.552	0.589	0.545	0.494	0.515	0.539	6.74
17)		tert-Butyl alc...			1.527	1.559	1.503	1.399	1.404	1.478	4.91
18)	T	1,1-Dichloroet...			0.520	0.517	0.514	0.458	0.492	0.501	5.18
19)	T	Isopropyl Alcohol			0.864	0.731	0.714	0.621	0.631	0.712	13.77
20)	T	Methylene Chlo...			0.586	0.503	0.478	0.390	0.416	0.475	16.27
21)	T	Allyl Chloride			0.897	0.823	0.847	0.792	0.799	0.832	5.06
22)	T	trans-1,2-Dich...			0.549	0.583	0.595	0.540	0.556	0.565	4.13
23)	T	Vinyl Acetate			0.873	0.475	0.543	0.538	0.549	0.595	26.54
24)	T	1,1-Dichloroet...			1.165	1.099	1.100	1.016	1.083	1.093	4.84
25)	T	Ethyl Acetate			3.219	3.352	3.399	3.094	3.131	3.239	4.13
26)	T	Hexane			1.265	1.249	1.388	1.261	1.242	1.281	4.71
27)	T	Carbon Disulfide			1.210	1.256	1.304	1.258	1.311	1.268	3.22
28)	T	Methyl tert-Bu...			1.043	1.187	1.007	0.774	0.885	0.979	16.08
29)	T	Chloroform			2.101	2.060	2.105	1.911	1.947	2.025	4.45
30)	T	Cyclohexane			1.037	1.193	1.145	1.082	1.098	1.111	5.41
31)	T	cis-1,2-Dichlo...			1.406	1.397	1.390	1.272	1.279	1.349	4.98
32)	T	1,1,1-Trichlor...	1.937	1.841	1.942	2.010	1.956	1.905	1.973	1.938	2.76
33)	I	1,4-Difluorobenzene	----------ISTD----------								
34)	T	2-Butanone			0.649	0.646	0.679	0.602	0.605	0.636	5.13
35)	T	Carbon Tetrach...	0.605	0.608	0.584	0.616	0.657	0.649	0.677	0.628	5.32
36)	T	Benzene			0.926	0.949	0.949	0.882	0.879	0.917	3.78
37)	T	1,2-Dichloroet...			0.539	0.516	0.517	0.493	0.510	0.515	3.23
38)	T	Trichloroethene	0.286	0.427	0.381	0.374	0.373	0.354	0.353	0.364	11.62
39)	T	1,2-Dichloropr...			0.349	0.321	0.329	0.305	0.304	0.322	5.81

Response Factor Report MSVOA_L

Method Path : Z:\voasrv\HPCHEM1\MSVOA_L\methods\
Method File : VL011425AIR.M

40)	T	1,4-Dioxane			0.187	0.162	0.161	0.147	0.155	0.162	9.21
41)	T	Tetrahydrofuran			0.333	0.344	0.358	0.348	0.346	0.346	2.53
42)	T	Bromodichlorom...			0.700	0.659	0.703	0.684	0.707	0.691	2.84
43)		Methyl Methacr...			0.340	0.336	0.349	0.338	0.341	0.341	1.41
44)	T	2,2,4-Trimethy...			1.450	1.501	1.566	1.457	1.444	1.484	3.45
45)	T	t-1,3-Dichloro...			0.300	0.292	0.319	0.338	0.346	0.319	7.38
46)	T	cis-1,3-Dichlo...			0.371	0.391	0.439	0.446	0.447	0.419	8.43
47)	T	1,1,2-Trichlor...			0.340	0.345	0.350	0.333	0.336	0.341	2.06
48)	T	Dibromochlorom...			0.490	0.489	0.541	0.545	0.566	0.526	6.64
49)	T	Bromoform			0.379	0.394	0.439	0.460	0.488	0.432	10.53
50)	T	4-Methyl-2-Pen...			0.892	0.870	0.899	0.833	0.846	0.868	3.29
51)	T	2-Hexanone			0.622	0.640	0.739	0.652	0.683	0.667	6.91
52)	T	Tetrachloroethene	0.320	0.348	0.317	0.329	0.330	0.292	0.291	0.318	6.46
53)	T	Toluene			0.934	0.996	1.048	1.011	1.008	0.999	4.14
54)	T	1,2-Dibromoethane		0.440	0.488	0.468	0.494	0.454	0.470	0.469	4.32
55)	I	Chlorobenzene-d5	----------ISTD----------								
56)		1,1,1,2-Tetrac...			0.502	0.514	0.510	0.481	0.488	0.499	2.86
57)	T	Chlorobenzene			0.986	0.968	0.977	0.848	0.832	0.922	8.18
58)	T	Ethyl Benzene			1.507	1.563	1.653	1.551	1.541	1.563	3.49
59)	T	m/p-Xylene			1.186	1.265	1.355	1.223	1.234	1.253	5.10
60)	T	o-Xylene			1.179	1.241	1.348	1.224	1.224	1.243	5.06
61)	T	Styrene			0.516	0.515	0.576	0.587	0.595	0.558	7.02
62)		Isopropylbenzene			1.927	1.925	2.066	1.854	1.848	1.924	4.56
63)	T	1,1,2,2-Tetrac...		0.756	0.816	0.845	0.858	0.751	0.741	0.795	6.52
64)		n-propylbenzene			0.481	0.495	0.521	0.469	0.464	0.486	4.78
65)		tert-Butylbenzene			1.746	1.782	1.919	1.675	1.645	1.753	6.12
66)	T	Benzyl Chloride			0.102	0.093	0.113	0.115	0.119	0.109	9.71
67)		sec-Butylbenzene			2.389	2.457	2.681	2.299	2.246	2.414	7.04
68)	S	1-Bromo-4-Fluo...	0.783	0.785	0.784	0.792	0.795	0.782	0.792	0.788	0.65
69)		p-Isopropyltol...			1.852	2.013	2.256	1.927	1.892	1.988	8.11
70)		n-Butylbenzene			1.867	2.048	2.206	1.898	1.840	1.972	7.80
71)		2-Chlorotoluene			1.394	1.410	1.537	1.389	1.385	1.423	4.54
72)	T	4-Ethyltoluene			1.442	1.447	1.610	1.466	1.472	1.487	4.67
73)	T	1,3,5-Trimethy...			1.222	1.360	1.448	1.263	1.275	1.313	6.88
74)	T	1,2,4-Trimethy...			1.359	1.456	1.607	1.346	1.344	1.422	7.97
75)	T	1,3-Dichlorobe...			0.881	0.884	0.903	0.776	0.771	0.843	7.61
76)	T	1,4-Dichlorobe...			0.830	0.859	0.889	0.769	0.777	0.825	6.29
77)	T	1,2-Dichlorobe...			0.863	0.902	0.909	0.757	0.745	0.835	9.43
78)	T	Hexachloro-1,3...			0.747	0.742	0.772	0.586	0.582	0.686	13.66
79)	T	Naphthalene		0.978	1.479	1.682	1.941	1.255	1.259	1.432	24.01
80)	T	Naphthalene,2-...			0.572	0.724	1.151	0.463	0.485	0.679	41.70
81)	T	1,2,4-Trichlor...			0.745	0.738	0.819	0.598	0.596	0.699	14.10

(#) = Out of Range

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041889.D
Acq On : 14 Jan 2025 12:55
Operator : SY/MD
Sample : VSTDICCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 14 21:20:11 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2
QLast Update : Tue Jan 14 16:31:18 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.797	49	152325	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.975	114	449256	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.894	117	400269	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.390	95	313194	9.934	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 99.300%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.502	85	197959	9.541	ppbv	100
3) Chlorodifluoromethane	1.479	51	202651	9.323	ppbv	100
4) Chloromethane	1.538	50	74977	9.608	ppbv	100
5) Vinyl Chloride	1.583	62	71006	8.984	ppbv	100
6) Bromomethane	1.674	94	34817	9.243	ppbv	100
7) Chloroethane	1.709	64	29349	9.544	ppbv	100
8) Dichlorotetrafluoroethane	1.557	85	166754	9.196	ppbv	100
9) Propene	1.486	41	86544	9.665	ppbv	100
10) Heptane	5.001	43	233062	9.738	ppbv	100
11) Trichlorofluoromethane	1.884	101	203374	9.423	ppbv	100
12) 1,1,2-Trichlorotrifluo...	2.146	101	160993	9.517	ppbv	100
13) Ethanol	1.725	45	4155	6.335	ppbv	98
14) Bromoethene	1.787	108	56447	9.114	ppbv	100
15) Acetone	1.842	43	151022	8.255	ppbv	100
16) 1,3-Butadiene	1.612	39	75244	9.163	ppbv	100
17) tert-Butyl alcohol	2.046	59	213109	9.464	ppbv	100
18) 1,1-Dichloroethene	2.039	96	69825	9.158	ppbv	100
19) Isopropyl Alcohol	1.890	45	94532	8.714	ppbv	100
20) Methylene Chloride	2.068	84	59427	8.219	ppbv	100
21) Allyl Chloride	2.101	41	120681	9.526	ppbv	100
22) trans-1,2-Dichloroethene	2.347	96	82326	9.568	ppbv	100
23) Vinyl Acetate	2.470	43	81885	10.281	ppbv	100
24) 1,1-Dichloroethane	2.418	63	154838	9.303	ppbv	100
25) Ethyl Acetate	2.845	43	471257	9.552	ppbv	100
26) Hexane	2.835	57	192009	9.841	ppbv	100
27) Carbon Disulfide	2.156	76	191567	9.921	ppbv	99
28) Methyl tert-Butyl Ether	2.450	73	117898	7.905	ppbv	100
29) Chloroform	2.858	83	291118	9.438	ppbv	100
30) Cyclohexane	3.868	84	164788	9.737	ppbv	100
31) cis-1,2-Dichloroethene	2.729	61	193774	9.432	ppbv	100
32) 1,1,1-Trichloroethane	3.379	97	290126	9.830	ppbv	100
34) 2-Butanone	2.567	43	270263	9.459	ppbv	100
35) Carbon Tetrachloride	3.777	117	291448	10.309	ppbv	100
36) Benzene	3.671	78	396344	9.619	ppbv	100
37) 1,2-Dichloroethane	3.230	62	221352	9.565	ppbv	100
38) Trichloroethene	4.564	130	159253	9.736	ppbv	100
39) 1,2-Dichloropropane	4.331	63	137090	9.484	ppbv	100
40) 1,4-Dioxane	4.606	88	66200	9.075	ppbv #	94
41) Tetrahydrofuran	3.065	42	156141	10.023	ppbv	100
42) Bromodichloromethane	4.509	83	307176	9.900	ppbv	100
43) Methyl Methacrylate	4.897	69	152001	9.930	ppbv	100
44) 2,2,4-Trimethylpentane	4.658	57	654395	9.819	ppbv	100
45) t-1,3-Dichloropropene	6.435	75	151920	10.603	ppbv	100

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041889.D
Acq On : 14 Jan 2025 12:55
Operator : SY/MD
Sample : VSTDICCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 14 21:20:11 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2
QLast Update : Tue Jan 14 16:31:18 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) cis-1,3-Dichloropropene	5.622	75	200330	10.649	ppbv		100
47) 1,1,2-Trichloroethane	6.600	97	149634	9.766	ppbv		100
48) Dibromochloromethane	7.402	129	245066	10.368	ppbv		100
49) Bromoform	9.496	173	206751	10.649	ppbv		100
50) 4-Methyl-2-Pentanone	5.778	43	374267	9.615	ppbv		100
51) 2-Hexanone	7.454	43	292941	9.775	ppbv	#	100
52) Tetrachloroethene	8.241	164	131334	9.193	ppbv		100
53) Toluene	6.952	91	454085	10.116	ppbv		100
54) 1,2-Dibromoethane	7.668	107	203859	9.679	ppbv		100
56) 1,1,1,2-Tetrachloroethane	8.940	131	192449	9.637	ppbv		99
57) Chlorobenzene	8.937	112	339570	9.197	ppbv		100
58) Ethyl Benzene	9.367	91	620719	9.923	ppbv		100
59) m/p-Xylene	9.564	91	979297m	19.504	ppbv		
60) o-Xylene	9.979	91	490108	9.848	ppbv		100
61) Styrene	9.885	104	234901	10.522	ppbv		100
62) Isopropylbenzene	10.552	105	742261	9.638	ppbv		100
63) 1,1,2,2-Tetrachloroethane	9.976	83	300600	9.596	ppbv		100
64) n-propylbenzene	11.002	120	187706	9.646	ppbv		99
65) tert-Butylbenzene	11.542	119	670259	9.550	ppbv		100
66) Benzyl Chloride	11.626	91	46008	10.591	ppbv		100
67) sec-Butylbenzene	11.778	105	920046	9.521	ppbv		100
69) p-Isopropyltoluene	11.937	119	771465	9.694	ppbv		100
70) n-Butylbenzene	12.293	91	759785	9.627	ppbv		100
71) 2-Chlorotoluene	10.914	91	556170	9.763	ppbv		100
72) 4-Ethyltoluene	11.137	105	586667	9.855	ppbv		100
73) 1,3,5-Trimethylbenzene	11.215	105	505443	9.614	ppbv		100
74) 1,2,4-Trimethylbenzene	11.549	105	538665	9.461	ppbv		100
75) 1,3-Dichlorobenzene	11.620	146	310421	9.201	ppbv		100
76) 1,4-Dichlorobenzene	11.684	146	307758	9.324	ppbv		100
77) 1,2-Dichlorobenzene	11.960	146	303196	9.068	ppbv		100
78) Hexachloro-1,3-Butadiene	13.895	225	234457	8.543	ppbv		100
79) Naphthalene	13.526	128	502354	8.764	ppbv		100
80) Naphthalene,2-methyl-	14.471	142	185336	6.819	ppbv		100
81) 1,2,4-Trichlorobenzene	13.452	180	239317	8.553	ppbv		100

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

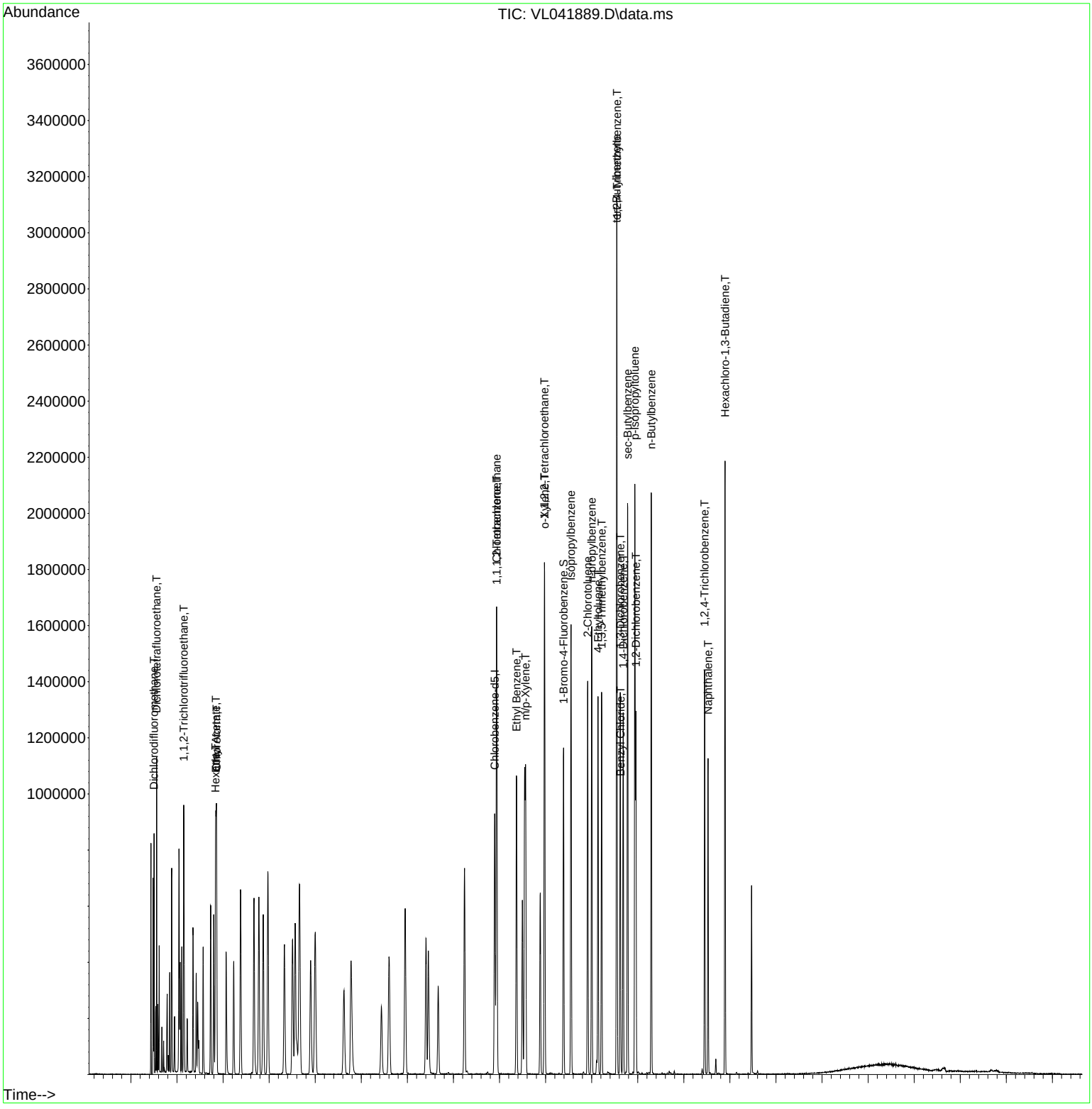
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041889.D
Acq On : 14 Jan 2025 12:55
Operator : SY/MD
Sample : VSTDICCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 14 21:20:11 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Tue Jan 14 16:31:18 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041890.D
Acq On : 14 Jan 2025 13:28
Operator : SY/MD
Sample : VSTDICC002
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 14 21:20:29 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2
QLast Update : Tue Jan 14 16:31:18 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.797	49	150761	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.971	114	452131	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.894	117	394865	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.390	95	313784	10.089	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 100.900%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.502	85	40991	1.996	ppbv		98
3) Chlorodifluoromethane	1.479	51	44207	2.055	ppbv		99
4) Chloromethane	1.538	50	15833	2.050	ppbv		93
5) Vinyl Chloride	1.583	62	15137	1.935	ppbv		99
6) Bromomethane	1.673	94	7486	2.008	ppbv		91
7) Chloroethane	1.709	64	6303	2.071	ppbv	#	84
8) Dichlorotetrafluoroethane	1.557	85	36941	2.058	ppbv		99
9) Propene	1.486	41	18248	2.059	ppbv		95
10) Heptane	5.001	43	49302	2.081	ppbv		97
11) Trichlorofluoromethane	1.884	101	43266	2.025	ppbv		97
12) 1,1,2-Trichlorotrifluo...	2.146	101	35162	2.100	ppbv		97
13) Ethanol	1.725	45	1534	2.363	ppbv		84
14) Bromoethene	1.787	108	12163	1.984	ppbv	#	95
15) Acetone	1.842	43	37867	2.091	ppbv		99
16) 1,3-Butadiene	1.612	39	16446	2.024	ppbv		100
17) tert-Butyl alcohol	2.049	59	45305	2.033	ppbv		99
18) 1,1-Dichloroethene	2.039	96	15508	2.055	ppbv		97
19) Isopropyl Alcohol	1.894	45	21530	2.005	ppbv		94
20) Methylene Chloride	2.068	84	14399	2.012	ppbv		95
21) Allyl Chloride	2.104	41	25533	2.036	ppbv		97
22) trans-1,2-Dichloroethene	2.350	96	17951	2.108	ppbv		83
23) Vinyl Acetate	2.470	43	16358	2.075	ppbv		99
24) 1,1-Dichloroethane	2.418	63	33175	2.014	ppbv		99
25) Ethyl Acetate	2.848	43	102475	2.099	ppbv		99
26) Hexane	2.835	57	41844	2.167	ppbv		99
27) Carbon Disulfide	2.156	76	39306	2.057	ppbv	#	70
28) Methyl tert-Butyl Ether	2.454	73	30355	2.056	ppbv		96
29) Chloroform	2.858	83	63457	2.079	ppbv		94
30) Cyclohexane	3.874	84	34518	2.061	ppbv		97
31) cis-1,2-Dichloroethene	2.729	61	41921	2.062	ppbv		89
32) 1,1,1-Trichloroethane	3.382	97	58965	2.019	ppbv		98
34) 2-Butanone	2.570	43	61381	2.135	ppbv		99
35) Carbon Tetrachloride	3.777	117	59430	2.089	ppbv		95
36) Benzene	3.670	78	85859	2.070	ppbv		96
37) 1,2-Dichloroethane	3.230	62	46786	2.009	ppbv		100
38) Trichloroethene	4.564	130	33773	2.052	ppbv		98
39) 1,2-Dichloropropane	4.334	63	29723	2.043	ppbv		96
40) 1,4-Dioxane	4.619	88	14566m	1.984	ppbv		
41) Tetrahydrofuran	3.072	42	32358	2.064	ppbv		96
42) Bromodichloromethane	4.509	83	63611	2.037	ppbv		99
43) Methyl Methacrylate	4.900	69	31519	2.046	ppbv		99
44) 2,2,4-Trimethylpentane	4.658	57	141602	2.111	ppbv		100
45) t-1,3-Dichloropropene	6.435	75	28818	1.999	ppbv		97

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041890.D
Acq On : 14 Jan 2025 13:28
Operator : SY/MD
Sample : VSTDICC002
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 14 21:20:29 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2
QLast Update : Tue Jan 14 16:31:18 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) cis-1,3-Dichloropropene	5.625	75	39668	2.095	ppbv		94
47) 1,1,2-Trichloroethane	6.600	97	31694m	2.055	ppbv		
48) Dibromochloromethane	7.406	129	48894	2.055	ppbv		99
49) Bromoform	9.496	173	39710	2.032	ppbv		99
50) 4-Methyl-2-Pentanone	5.784	43	81330	2.076	ppbv		98
51) 2-Hexanone	7.457	43	66831	2.216	ppbv	#	98
52) Tetrachloroethene	8.241	164	29814	2.074	ppbv		94
53) Toluene	6.952	91	94741	2.097	ppbv		98
54) 1,2-Dibromoethane	7.671	107	44636	2.106	ppbv		96
56) 1,1,1,2-Tetrachloroethane	8.940	131	40249	2.043	ppbv		93
57) Chlorobenzene	8.933	112	77180	2.119	ppbv		94
58) Ethyl Benzene	9.367	91	130554	2.116	ppbv		98
59) m/p-Xylene	9.561	91	214076m	4.322	ppbv		
60) o-Xylene	9.975	91	106458	2.168	ppbv		99
61) Styrene	9.885	104	45490	2.065	ppbv		99
62) Isopropylbenzene	10.552	105	163135	2.147	ppbv		97
63) 1,1,2,2-Tetrachloroethane	9.975	83	67775	2.193	ppbv		99
64) n-propylbenzene	11.001	120	41184	2.145	ppbv		99
65) tert-Butylbenzene	11.542	119	151534	2.189	ppbv		97
66) Benzyl Chloride	11.626	91	8925	2.083	ppbv		97
67) sec-Butylbenzene	11.778	105	211759	2.221	ppbv		99
69) p-Isopropyltoluene	11.937	119	178172	2.270	ppbv		100
70) n-Butylbenzene	12.293	91	174217	2.238	ppbv		99
71) 2-Chlorotoluene	10.914	91	121418	2.161	ppbv		100
72) 4-Ethyltoluene	11.137	105	127115	2.164	ppbv		100
73) 1,3,5-Trimethylbenzene	11.215	105	114342	2.205	ppbv		99
74) 1,2,4-Trimethylbenzene	11.548	105	126939	2.260	ppbv	#	89
75) 1,3-Dichlorobenzene	11.616	146	71332	2.143	ppbv		98
76) 1,4-Dichlorobenzene	11.684	146	70219	2.156	ppbv		99
77) 1,2-Dichlorobenzene	11.960	146	71818	2.177	ppbv		100
78) Hexachloro-1,3-Butadiene	13.892	225	60984	2.253	ppbv		99
79) Naphthalene	13.526	128	153268	2.710	ppbv		98
80) Naphthalene,2-methyl-	14.471	142	90910	3.391	ppbv		99
81) 1,2,4-Trichlorobenzene	13.452	180	64653	2.342	ppbv		98

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

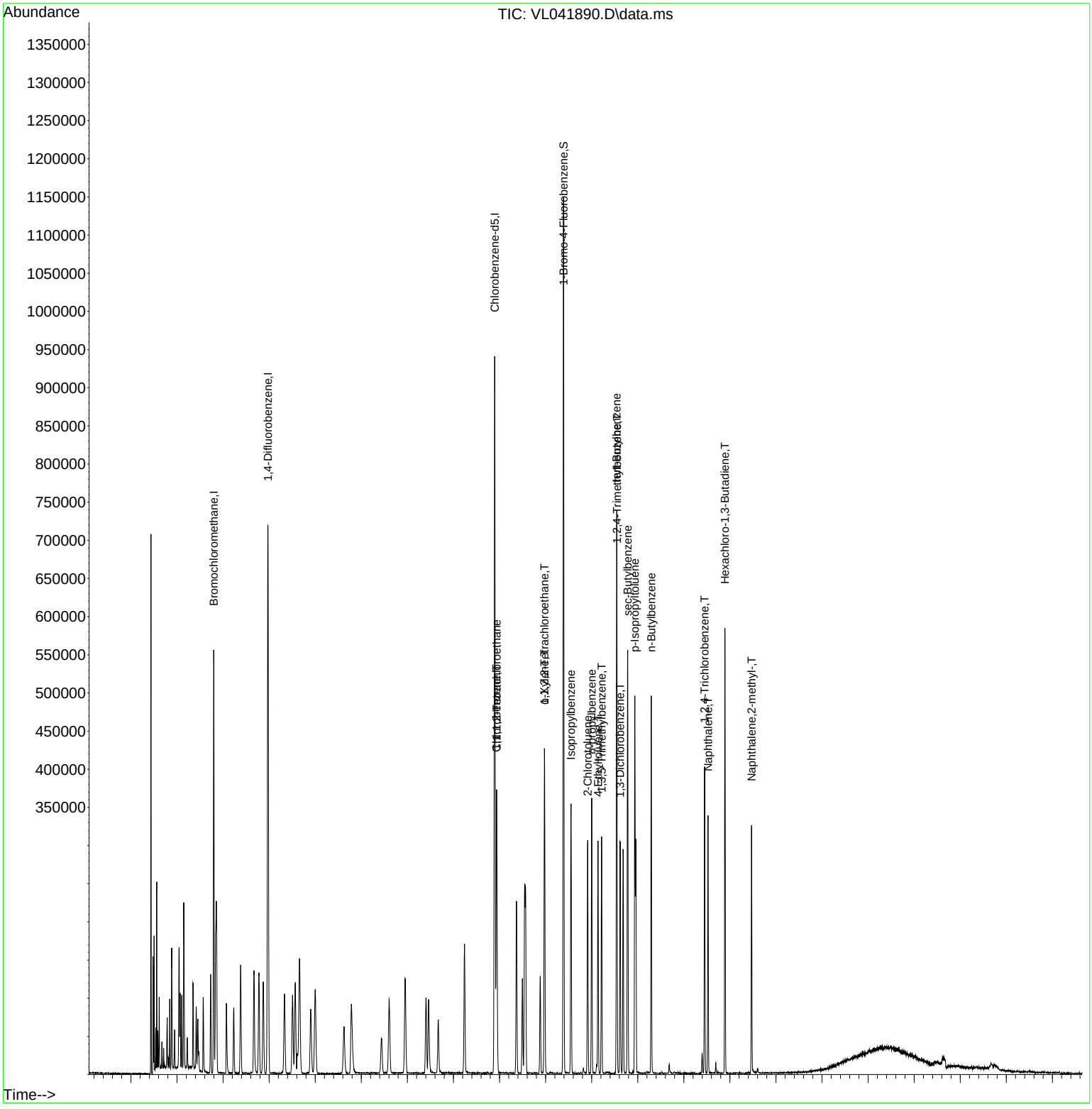
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041890.D
Acq On : 14 Jan 2025 13:28
Operator : SY/MD
Sample : VSTDICC002
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 14 21:20:29 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Tue Jan 14 16:31:18 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041891.D
Acq On : 14 Jan 2025 13:59
Operator : SY/MD
Sample : VSTDICC001
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 14 21:20:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2
QLast Update : Tue Jan 14 16:31:18 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.797	49	151226	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.972	114	453418	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.895	117	393836	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.387	95	312013	10.058	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 100.600%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.502	85	21262	1.032	ppbv		95
3) Chlorodifluoromethane	1.479	51	23396	1.084	ppbv		100
4) Chloromethane	1.534	50	7546	0.974	ppbv		94
5) Vinyl Chloride	1.583	62	8031	1.023	ppbv		97
6) Bromomethane	1.674	94	4139	1.107	ppbv	#	81
7) Chloroethane	1.709	64	3093	1.013	ppbv		92
8) Dichlorotetrafluoroethane	1.557	85	18122	1.007	ppbv		100
9) Propene	1.486	41	8719	0.981	ppbv		93
10) Heptane	5.001	43	24438	1.029	ppbv		96
11) Trichlorofluoromethane	1.884	101	21425	1.000	ppbv		98
12) 1,1,2-Trichlorotrifluo...	2.143	101	17187	1.023	ppbv		95
13) Ethanol	1.725	45	650	0.998	ppbv	#	29
14) Bromoethene	1.787	108	6736	1.096	ppbv	#	88
15) Acetone	1.842	43	19681	1.084	ppbv		95
16) 1,3-Butadiene	1.612	39	8901	1.092	ppbv		98
17) tert-Butyl alcohol	2.049	59	23571	1.054	ppbv		95
18) 1,1-Dichloroethene	2.039	96	7819m	1.033	ppbv		
19) Isopropyl Alcohol	1.894	45	11054	1.026	ppbv	#	32
20) Methylene Chloride	2.065	84	7608	1.060	ppbv	#	89
21) Allyl Chloride	2.101	41	12451	0.990	ppbv		98
22) trans-1,2-Dichloroethene	2.347	96	8819	1.032	ppbv		96
23) Vinyl Acetate	2.470	43	7181	0.908	ppbv	#	93
24) 1,1-Dichloroethane	2.415	63	16623	1.006	ppbv		97
25) Ethyl Acetate	2.845	43	50690	1.035	ppbv		98
26) Hexane	2.836	57	18893	0.975	ppbv		86
27) Carbon Disulfide	2.156	76	18993	0.991	ppbv	#	23
28) Methyl tert-Butyl Ether	2.450	73	17955	1.213	ppbv		98
29) Chloroform	2.858	83	31155	1.017	ppbv		97
30) Cyclohexane	3.871	84	18048	1.074	ppbv		96
31) cis-1,2-Dichloroethene	2.729	61	21124	1.036	ppbv		99
32) 1,1,1-Trichloroethane	3.383	97	30396	1.037	ppbv		98
34) 2-Butanone	2.570	43	29280	1.015	ppbv		99
35) Carbon Tetrachloride	3.774	117	27946	0.979	ppbv		96
36) Benzene	3.671	78	43023	1.035	ppbv		93
37) 1,2-Dichloroethane	3.230	62	23402	1.002	ppbv		98
38) Trichloroethene	4.564	130	16954m	1.027	ppbv		
39) 1,2-Dichloropropane	4.331	63	14570	0.999	ppbv		98
40) 1,4-Dioxane	4.613	88	7345m	0.998	ppbv		
41) Tetrahydrofuran	3.075	42	15580m	0.991	ppbv		
42) Bromodichloromethane	4.509	83	29893m	0.955	ppbv		
43) Methyl Methacrylate	4.901	69	15222	0.985	ppbv		95
44) 2,2,4-Trimethylpentane	4.661	57	68050	1.012	ppbv		98
45) t-1,3-Dichloropropene	6.438	75	13220	0.914	ppbv		92

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041891.D
Acq On : 14 Jan 2025 13:59
Operator : SY/MD
Sample : VSTDICC001
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 14 21:20:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2
QLast Update : Tue Jan 14 16:31:18 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) cis-1,3-Dichloropropene	5.626	75	17749	0.935	ppbv		97
47) 1,1,2-Trichloroethane	6.603	97	15658m	1.013	ppbv		
48) Dibromochloromethane	7.402	129	22169	0.929	ppbv		100
49) Bromoform	9.497	173	17876	0.912	ppbv		100
50) 4-Methyl-2-Pentanone	5.787	43	39436m	1.004	ppbv		
51) 2-Hexanone	7.464	43	28999	0.959	ppbv	#	95
52) Tetrachloroethene	8.244	164	14903	1.034	ppbv	#	80
53) Toluene	6.956	91	45140m	0.996	ppbv		
54) 1,2-Dibromoethane	7.668	107	21202	0.997	ppbv		96
56) 1,1,1,2-Tetrachloroethane	8.937	131	20255	1.031	ppbv		94
57) Chlorobenzene	8.933	112	38141	1.050	ppbv		98
58) Ethyl Benzene	9.367	91	61537	1.000	ppbv		99
59) m/p-Xylene	9.561	91	99618m	2.016	ppbv		
60) o-Xylene	9.972	91	48888	0.998	ppbv		98
61) Styrene	9.882	104	20285	0.923	ppbv		99
62) Isopropylbenzene	10.549	105	75801	1.000	ppbv		98
63) 1,1,2,2-Tetrachloroethane	9.972	83	33289	1.080	ppbv		97
64) n-propylbenzene	11.002	120	19511	1.019	ppbv		99
65) tert-Butylbenzene	11.539	119	70183	1.016	ppbv		98
66) Benzyl Chloride	11.626	91	3681m	0.861	ppbv		
67) sec-Butylbenzene	11.778	105	96749	1.018	ppbv		97
69) p-Isopropyltoluene	11.937	119	79283	1.013	ppbv		98
70) n-Butylbenzene	12.290	91	80664	1.039	ppbv		99
71) 2-Chlorotoluene	10.911	91	55540	0.991	ppbv		99
72) 4-Ethyltoluene	11.134	105	56973	0.973	ppbv		97
73) 1,3,5-Trimethylbenzene	11.215	105	53550	1.035	ppbv		97
74) 1,2,4-Trimethylbenzene	11.545	105	57352	1.024	ppbv		96
75) 1,3-Dichlorobenzene	11.617	146	34810	1.049	ppbv		99
76) 1,4-Dichlorobenzene	11.681	146	33822	1.041	ppbv		97
77) 1,2-Dichlorobenzene	11.960	146	35516	1.080	ppbv		98
78) Hexachloro-1,3-Butadiene	13.892	225	29210	1.082	ppbv		99
79) Naphthalene	13.523	128	66232	1.174	ppbv		98
80) Naphthalene,2-methyl-	14.468	142	28506	1.066	ppbv		98
81) 1,2,4-Trichlorobenzene	13.452	180	29053	1.055	ppbv		99

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

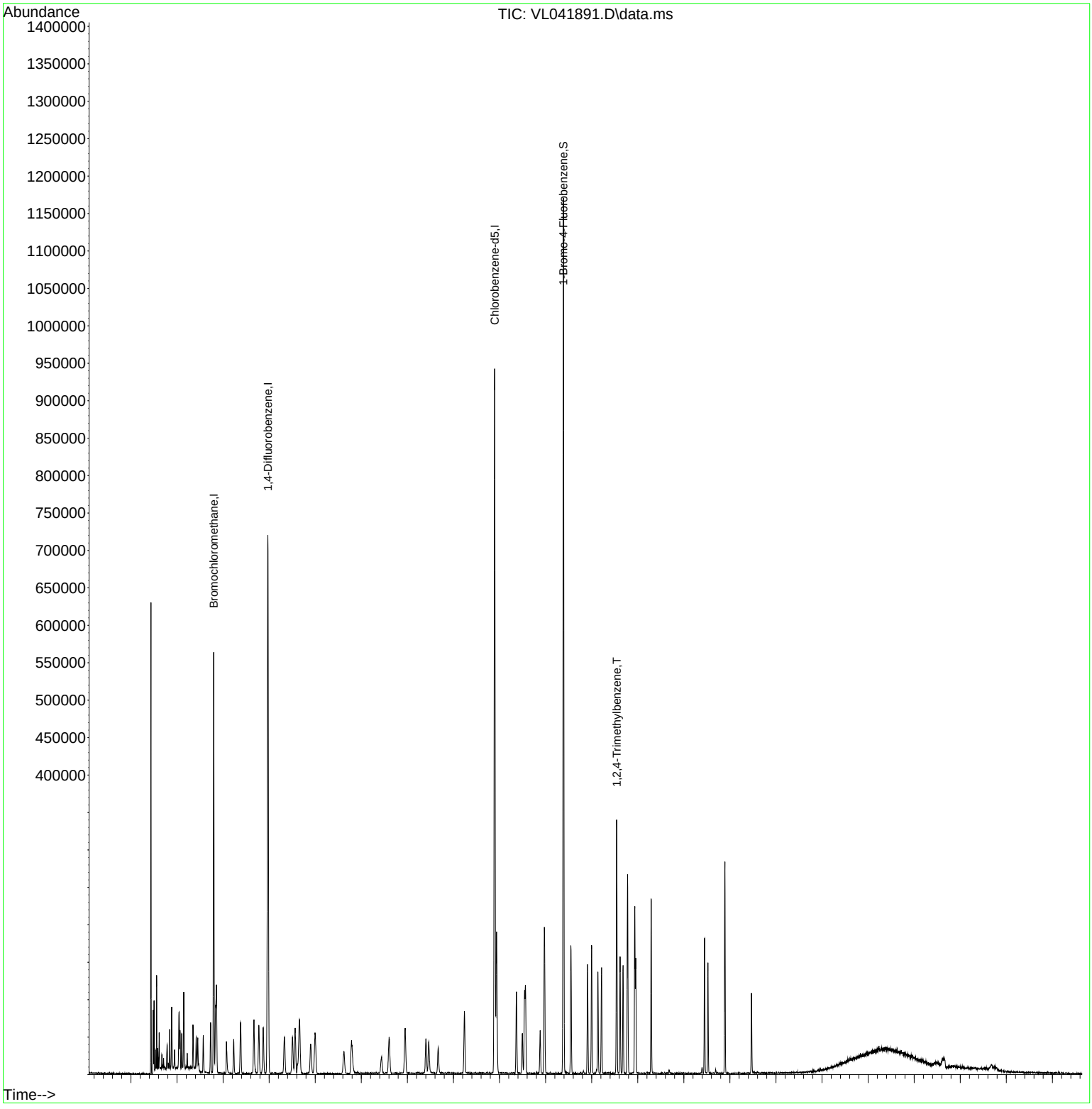
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041891.D
Acq On : 14 Jan 2025 13:59
Operator : SY/MD
Sample : VSTDICC001
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 14 21:20:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Tue Jan 14 16:31:18 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041892.D
Acq On : 14 Jan 2025 14:30
Operator : SY/MD
Sample : VSTDICC0.5
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 14 21:21:01 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2
QLast Update : Tue Jan 14 16:31:18 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.790	49	146186	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.968	114	430874	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.891	117	379402	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.383	95	297462	9.954	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 99.500%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.499	85	10599	0.532	ppbv		99
3) Chlorodifluoromethane	1.476	51	10582	0.507	ppbv		98
4) Chloromethane	1.534	50	3990	0.533	ppbv		98
5) Vinyl Chloride	1.580	62	4097	0.540	ppbv		94
6) Bromomethane	1.670	94	1852	0.512	ppbv	#	78
7) Chloroethane	1.706	64	1532	0.519	ppbv	#	77
8) Dichlorotetrafluoroethane	1.557	85	9372	0.539	ppbv		95
9) Propene	1.486	41	4690	0.546	ppbv		85
10) Heptane	4.988	43	11230	0.489	ppbv		95
11) Trichlorofluoromethane	1.881	101	10873	0.525	ppbv		99
12) 1,1,2-Trichlorotrifluo...	2.143	101	8027	0.494	ppbv		90
13) Ethanol	1.725	45	478m	0.759	ppbv		
14) Bromoethene	1.784	108	3071	0.517	ppbv	#	94
15) Acetone	1.839	43	10273	0.585	ppbv		99
16) 1,3-Butadiene	1.612	39	4038	0.512	ppbv		99
17) tert-Butyl alcohol	2.046	59	11158	0.516	ppbv	#	94
18) 1,1-Dichloroethene	2.036	96	3803	0.520	ppbv		95
19) Isopropyl Alcohol	1.891	45	6317	0.607	ppbv	#	32
20) Methylene Chloride	2.065	84	4286	0.618	ppbv		93
21) Allyl Chloride	2.101	41	6553	0.539	ppbv		96
22) trans-1,2-Dichloroethene	2.347	96	4015	0.486	ppbv		89
23) Vinyl Acetate	2.467	43	6381m	0.835	ppbv		
24) 1,1-Dichloroethane	2.415	63	8512	0.533	ppbv		97
25) Ethyl Acetate	2.845	43	23529	0.497	ppbv		97
26) Hexane	2.829	57	9246m	0.494	ppbv		
27) Carbon Disulfide	2.153	76	8847	0.477	ppbv	#	1
28) Methyl tert-Butyl Ether	2.447	73	7621	0.532	ppbv		97
29) Chloroform	2.855	83	15360	0.519	ppbv		92
30) Cyclohexane	3.871	84	7579	0.467	ppbv		92
31) cis-1,2-Dichloroethene	2.726	61	10275	0.521	ppbv	#	89
32) 1,1,1-Trichloroethane	3.379	97	14198	0.501	ppbv		98
34) 2-Butanone	2.567	43	13981	0.510	ppbv		94
35) Carbon Tetrachloride	3.774	117	12590	0.464	ppbv		89
36) Benzene	3.667	78	19954	0.505	ppbv		95
37) 1,2-Dichloroethane	3.227	62	11613	0.523	ppbv		97
38) Trichloroethene	4.561	130	8199	0.523	ppbv	#	89
39) 1,2-Dichloropropane	4.324	63	7526m	0.543	ppbv		
40) 1,4-Dioxane	4.616	88	4031m	0.576	ppbv		
41) Tetrahydrofuran	3.072	42	7183	0.481	ppbv		94
42) Bromodichloromethane	4.499	83	15081m	0.507	ppbv		
43) Methyl Methacrylate	4.891	69	7332m	0.499	ppbv		
44) 2,2,4-Trimethylpentane	4.645	57	31243	0.489	ppbv		95
45) t-1,3-Dichloropropene	6.428	75	6465m	0.470	ppbv		

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041892.D
Acq On : 14 Jan 2025 14:30
Operator : SY/MD
Sample : VSTDICC0.5
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 14 21:21:01 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2
QLast Update : Tue Jan 14 16:31:18 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) cis-1,3-Dichloropropene	5.609	75	7986m	0.443	ppbv		
47) 1,1,2-Trichloroethane	6.597	97	7324	0.498	ppbv	#	84
48) Dibromochloromethane	7.393	129	10548m	0.465	ppbv		
49) Bromoform	9.493	173	8162	0.438	ppbv		97
50) 4-Methyl-2-Pentanone	5.794	43	19221m	0.515	ppbv		
51) 2-Hexanone	7.454	43	13390	0.466	ppbv	#	97
52) Tetrachloroethene	8.238	164	6821m	0.498	ppbv		
53) Toluene	6.946	91	20118	0.467	ppbv		96
54) 1,2-Dibromoethane	7.665	107	10511	0.520	ppbv		89
56) 1,1,1,2-Tetrachloroethane	8.930	131	9524	0.503	ppbv	#	1
57) Chlorobenzene	8.930	112	18701	0.534	ppbv	#	90
58) Ethyl Benzene	9.364	91	28584	0.482	ppbv	#	88
59) m/p-Xylene	9.558	91	45003m	0.946	ppbv		
60) o-Xylene	9.972	91	22370	0.474	ppbv		97
61) Styrene	9.879	104	9788	0.463	ppbv		99
62) Isopropylbenzene	10.545	105	36561	0.501	ppbv		98
63) 1,1,2,2-Tetrachloroethane	9.969	83	15485	0.521	ppbv		98
64) n-propylbenzene	10.995	120	9128	0.495	ppbv		93
65) tert-Butylbenzene	11.536	119	33122	0.498	ppbv		98
66) Benzyl Chloride	11.620	91	1935	0.470	ppbv		99
67) sec-Butylbenzene	11.775	105	45326	0.495	ppbv		98
69) p-Isopropyltoluene	11.931	119	35136	0.466	ppbv		98
70) n-Butylbenzene	12.287	91	35409	0.473	ppbv		96
71) 2-Chlorotoluene	10.908	91	26436	0.490	ppbv		99
72) 4-Ethyltoluene	11.131	105	27363	0.485	ppbv		97
73) 1,3,5-Trimethylbenzene	11.209	105	23183	0.465	ppbv		93
74) 1,2,4-Trimethylbenzene	11.545	105	25777	0.478	ppbv		89
75) 1,3-Dichlorobenzene	11.610	146	16708	0.522	ppbv		100
76) 1,4-Dichlorobenzene	11.678	146	15738	0.503	ppbv		96
77) 1,2-Dichlorobenzene	11.953	146	16364	0.516	ppbv		93
78) Hexachloro-1,3-Butadiene	13.892	225	14162	0.544	ppbv		96
79) Naphthalene	13.520	128	28052	0.516	ppbv		98
80) Naphthalene,2-methyl-	14.468	142	10859	0.422	ppbv		97
81) 1,2,4-Trichlorobenzene	13.445	180	14136	0.533	ppbv		95

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

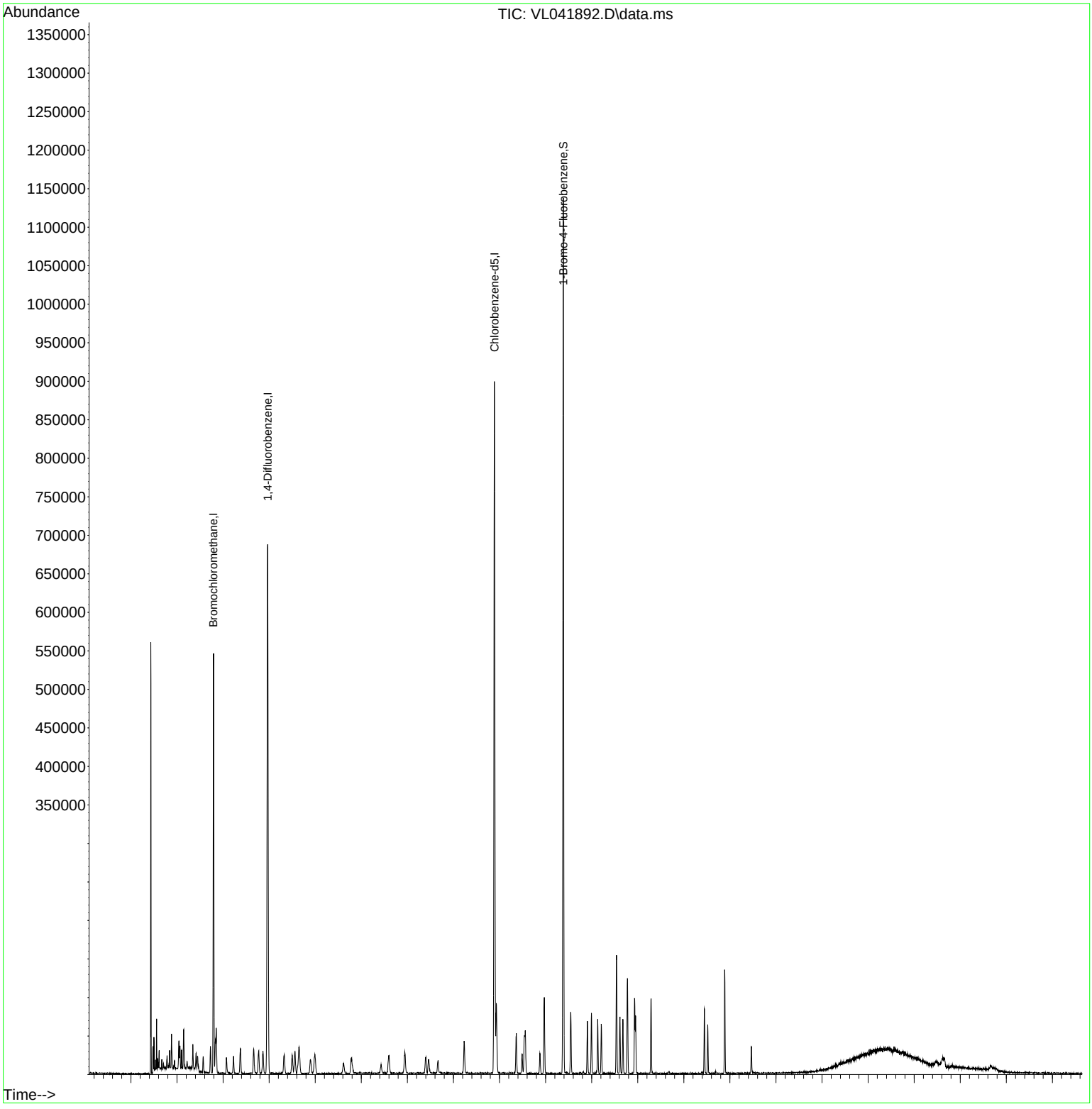
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041892.D
Acq On : 14 Jan 2025 14:30
Operator : SY/MD
Sample : VSTDICC0.5
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 14 21:21:01 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Tue Jan 14 16:31:18 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041893.D
Acq On : 14 Jan 2025 15:01
Operator : SY/MD
Sample : VSTDICC0.1
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 14 22:42:51 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2
QLast Update : Tue Jan 14 16:31:18 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.793	49	143362	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.968	114	425675	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.891	117	372545	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.387	95	292283	9.961	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 99.600%				
Target Compounds							Qvalue
5) Vinyl Chloride	1.583	62	828	0.111	ppbv		96
32) 1,1,1-Trichloroethane	3.383	97	2640m	0.095	ppbv		
35) Carbon Tetrachloride	3.768	117	2587m	0.097	ppbv		
38) Trichloroethene	4.557	130	1816m	0.117	ppbv		
52) Tetrachloroethene	8.234	164	1480m	0.109	ppbv		
54) 1,2-Dibromoethane	7.668	107	1872m	0.094	ppbv		
63) 1,1,2,2-Tetrachloroethane	9.976	83	2816	0.097	ppbv		95
79) Naphthalene	13.520	128	3643	0.068	ppbv	#	96

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

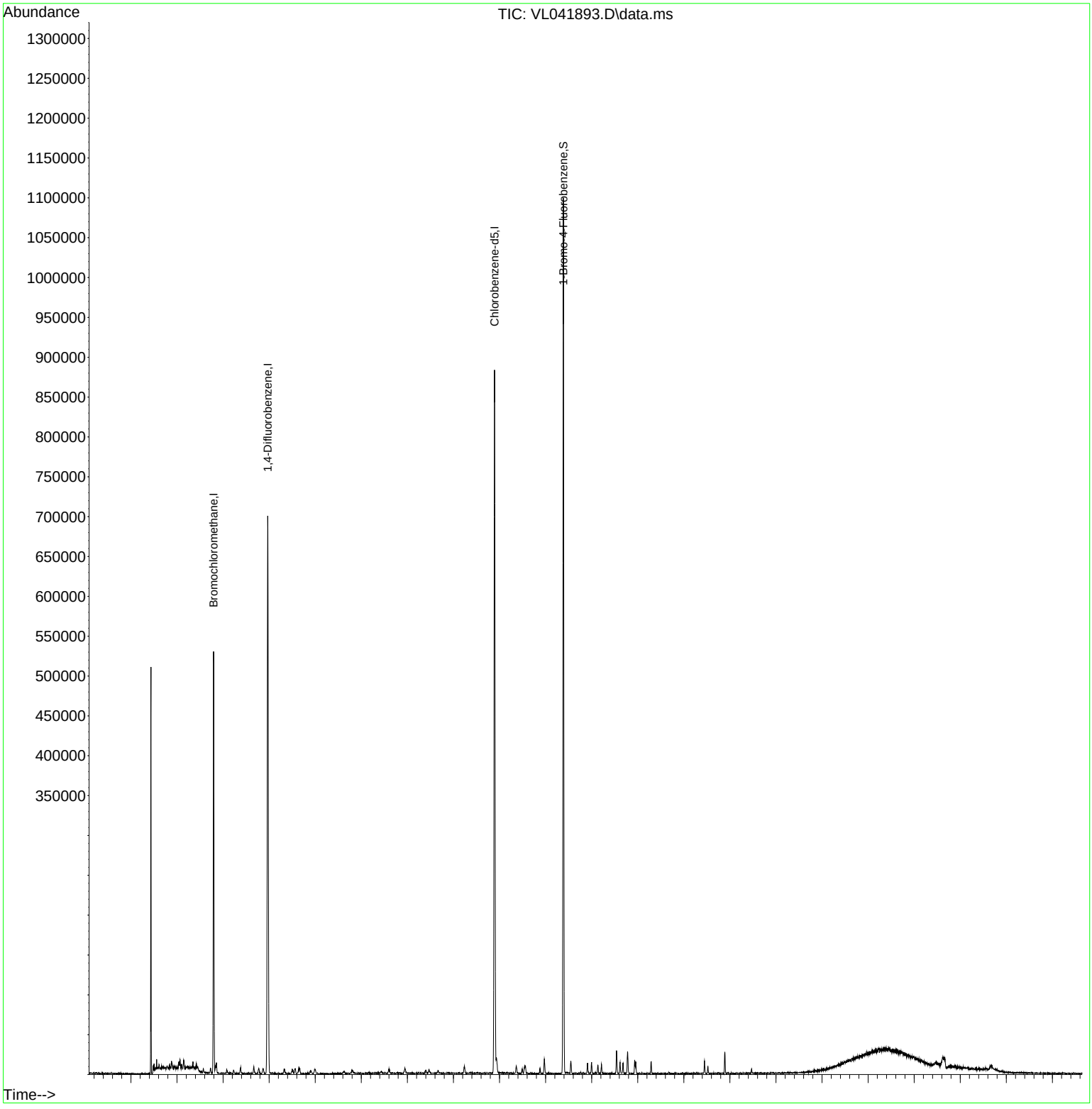
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041893.D
Acq On : 14 Jan 2025 15:01
Operator : SY/MD
Sample : VSTDICC0.1
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 14 22:42:51 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Tue Jan 14 16:31:18 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041894.D
Acq On : 14 Jan 2025 15:32
Operator : SY/MD
Sample : VSTDICC0.03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 14 21:21:32 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Tue Jan 14 16:31:18 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.793	49	141659	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.972	114	424686	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.891	117	367402	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.387	95	287792	9.945	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 99.500%			
Target Compounds						Qvalue
5) Vinyl Chloride	1.586	62	214m	0.029	ppbv	
32) 1,1,1-Trichloroethane	3.379	97	823	0.030	ppbv	85
35) Carbon Tetrachloride	3.774	117	771	0.029	ppbv #	56
38) Trichloroethene	4.557	130	364m	0.024	ppbv	
52) Tetrachloroethene	8.250	164	408m	0.030	ppbv	

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

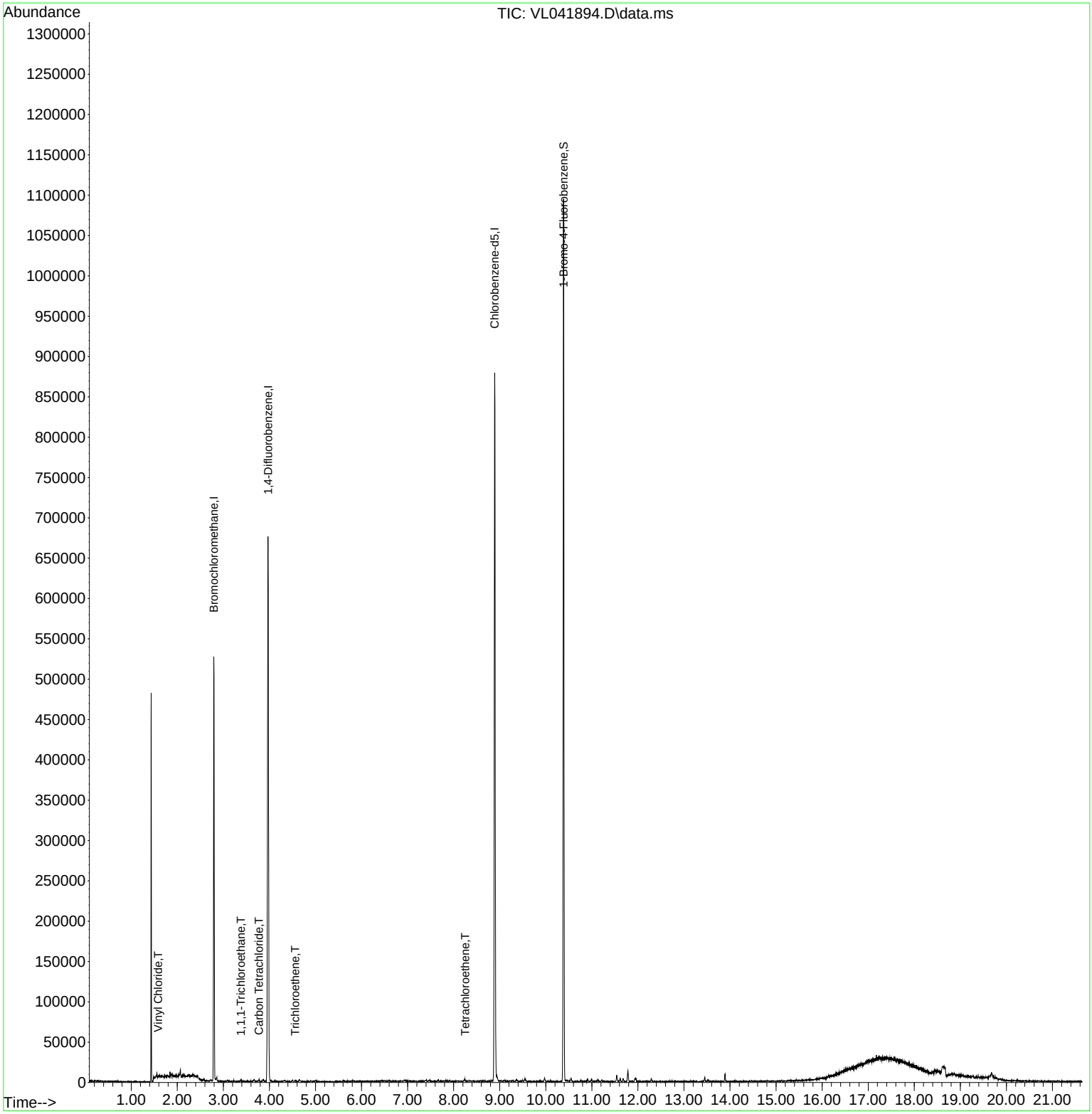
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041894.D
Acq On : 14 Jan 2025 15:32
Operator : SY/MD
Sample : VSTDICC0.03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 14 21:21:32 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Tue Jan 14 16:31:18 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041895.D
Acq On : 14 Jan 2025 16:05
Operator : SY/MD
Sample : VSTDICC015
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 14 21:21:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2
QLast Update : Tue Jan 14 16:31:18 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.793	49	141652	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.968	114	419859	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.895	117	383799	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.387	95	304042	10.058	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 100.600%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.502	85	275248	14.266	ppbv	100
3) Chlorodifluoromethane	1.479	51	285437	14.121	ppbv	98
4) Chloromethane	1.534	50	106071	14.617	ppbv	98
5) Vinyl Chloride	1.583	62	104404	14.204	ppbv	98
6) Bromomethane	1.670	94	49415	14.106	ppbv	91
7) Chloroethane	1.709	64	41130	14.383	ppbv	100
8) Dichlorotetrafluoroethane	1.557	85	244666	14.510	ppbv	100
9) Propene	1.486	41	116343	13.972	ppbv	99
10) Heptane	4.998	43	326897	14.688	ppbv	98
11) Trichlorofluoromethane	1.881	101	299656	14.930	ppbv	97
12) 1,1,2-Trichlorotrifluo...	2.143	101	232607	14.787	ppbv	100
13) Ethanol	1.725	45	6109	10.016	ppbv	83
14) Bromoethene	1.784	108	83586	14.513	ppbv	98
15) Acetone	1.839	43	223353	13.128	ppbv	99
16) 1,3-Butadiene	1.612	39	109420	14.329	ppbv	99
17) tert-Butyl alcohol	2.046	59	298424	14.252	ppbv	99
18) 1,1-Dichloroethene	2.039	96	104645	14.759	ppbv	92
19) Isopropyl Alcohol	1.890	45	134050	13.288	ppbv	98
20) Methylene Chloride	2.065	84	88425	13.151	ppbv	98
21) Allyl Chloride	2.101	41	169875	14.419	ppbv	96
22) trans-1,2-Dichloroethene	2.347	96	118169	14.768	ppbv	97
23) Vinyl Acetate	2.470	43	116632	15.747	ppbv	98
24) 1,1-Dichloroethane	2.415	63	230015	14.862	ppbv	99
25) Ethyl Acetate	2.842	43	665170	14.499	ppbv	100
26) Hexane	2.836	57	263948	14.547	ppbv	97
27) Carbon Disulfide	2.156	76	278476	15.509	ppbv	99
28) Methyl tert-Butyl Ether	2.447	73	187986	13.555	ppbv	98
29) Chloroform	2.858	83	413733	14.424	ppbv	98
30) Cyclohexane	3.868	84	233398	14.830	ppbv	99
31) cis-1,2-Dichloroethene	2.729	61	271739	14.223	ppbv	94
32) 1,1,1-Trichloroethane	3.379	97	419117	15.271	ppbv	99
34) 2-Butanone	2.564	43	380813	14.262	ppbv	99
35) Carbon Tetrachloride	3.774	117	426619	16.146	ppbv	97
36) Benzene	3.667	78	553665	14.378	ppbv	100
37) 1,2-Dichloroethane	3.227	62	321362	14.859	ppbv	99
38) Trichloroethene	4.564	130	222328	14.543	ppbv	98
39) 1,2-Dichloropropane	4.328	63	191532	14.179	ppbv	98
40) 1,4-Dioxane	4.596	88	97521	14.305	ppbv #	93
41) Tetrahydrofuran	3.062	42	217707	14.953	ppbv	99
42) Bromodichloromethane	4.502	83	445130	15.351	ppbv	95
43) Methyl Methacrylate	4.894	69	214564	14.999	ppbv	99
44) 2,2,4-Trimethylpentane	4.655	57	909437	14.601	ppbv	100
45) t-1,3-Dichloropropene	6.435	75	218001	16.281	ppbv	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041895.D
Acq On : 14 Jan 2025 16:05
Operator : SY/MD
Sample : VSTDICC015
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 14 21:21:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2
QLast Update : Tue Jan 14 16:31:18 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) cis-1,3-Dichloropropene	5.619	75	281492	16.011	ppbv		98
47) 1,1,2-Trichloroethane	6.597	97	211658	14.782	ppbv		95
48) Dibromochloromethane	7.402	129	356392	16.134	ppbv		100
49) Bromoform	9.493	173	307617	16.953	ppbv		99
50) 4-Methyl-2-Pentanone	5.774	43	533053	14.653	ppbv		99
51) 2-Hexanone	7.451	43	430297	15.363	ppbv	#	97
52) Tetrachloroethene	8.237	164	183208	13.721	ppbv		96
53) Toluene	6.949	91	634515	15.126	ppbv		99
54) 1,2-Dibromoethane	7.665	107	295967	15.036	ppbv		93
56) 1,1,1,2-Tetrachloroethane	8.937	131	280809	14.665	ppbv		98
57) Chlorobenzene	8.933	112	479092	13.533	ppbv		99
58) Ethyl Benzene	9.367	91	887072	14.789	ppbv		100
59) m/p-Xylene	9.565	91	1420585m	29.506	ppbv		
60) o-Xylene	9.976	91	704577	14.765	ppbv		100
61) Styrene	9.882	104	342490	15.999	ppbv		99
62) Isopropylbenzene	10.548	105	1063809	14.406	ppbv		100
63) 1,1,2,2-Tetrachloroethane	9.976	83	426347	14.194	ppbv		100
64) n-propylbenzene	10.998	120	266972	14.308	ppbv		100
65) tert-Butylbenzene	11.542	119	947297	14.077	ppbv		98
66) Benzyl Chloride	11.626	91	68623	16.475	ppbv		98
67) sec-Butylbenzene	11.778	105	1292858	13.952	ppbv		100
69) p-Isopropyltoluene	11.937	119	1089109	14.273	ppbv		99
70) n-Butylbenzene	12.290	91	1059002	13.994	ppbv		99
71) 2-Chlorotoluene	10.911	91	797555	14.601	ppbv		100
72) 4-Ethyltoluene	11.134	105	847451	14.846	ppbv		99
73) 1,3,5-Trimethylbenzene	11.215	105	733759	14.556	ppbv		96
74) 1,2,4-Trimethylbenzene	11.549	105	773569	14.170	ppbv		92
75) 1,3-Dichlorobenzene	11.620	146	443828	13.720	ppbv		99
76) 1,4-Dichlorobenzene	11.681	146	447164	14.129	ppbv		99
77) 1,2-Dichlorobenzene	11.956	146	429118	13.385	ppbv		99
78) Hexachloro-1,3-Butadiene	13.892	225	335016	12.731	ppbv		100
79) Naphthalene	13.523	128	724573	13.183	ppbv		99
80) Naphthalene,2-methyl-	14.468	142	278955	10.704	ppbv		99
81) 1,2,4-Trichlorobenzene	13.452	180	342977	12.784	ppbv		98

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

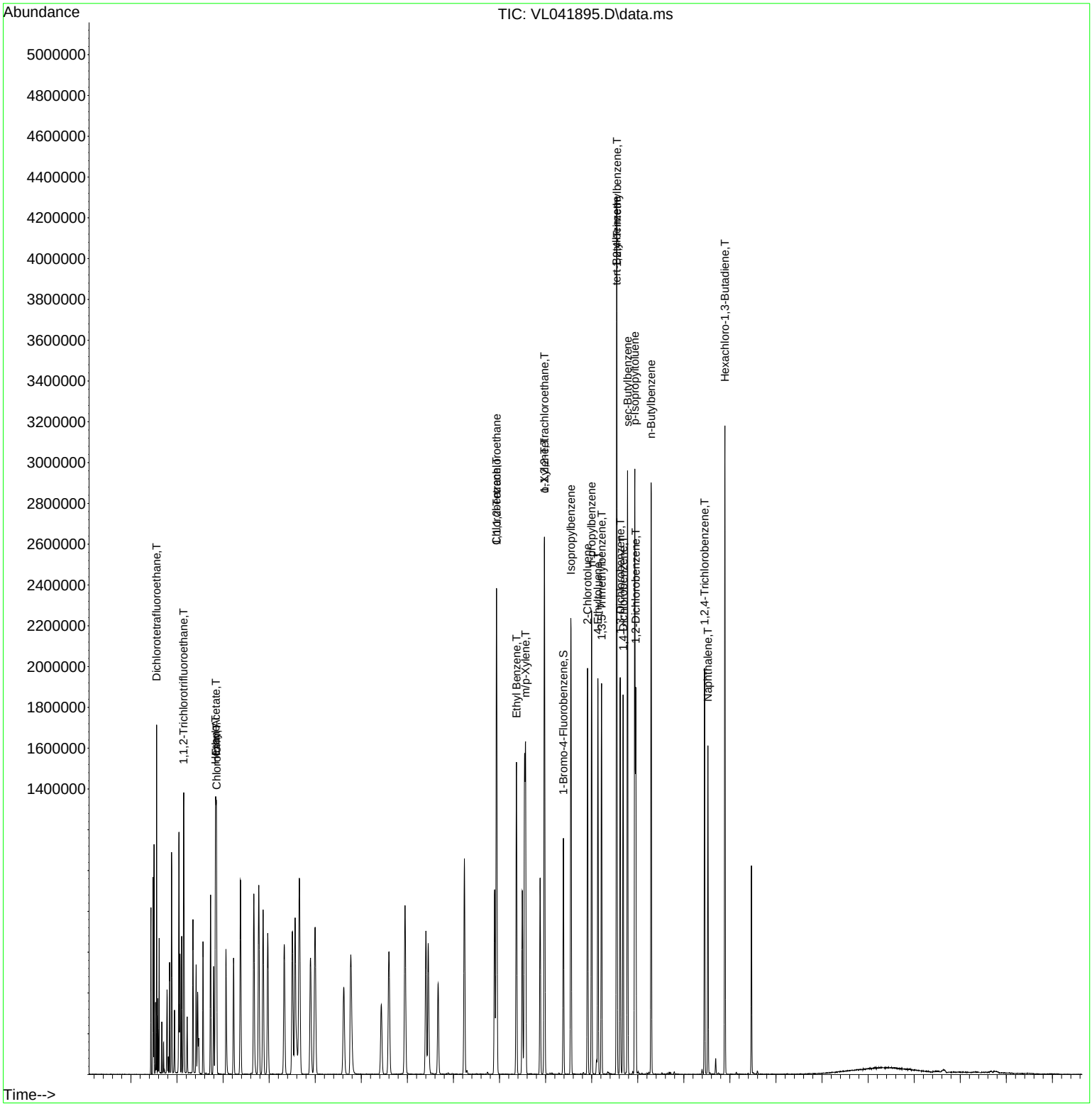
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041895.D
Acq On : 14 Jan 2025 16:05
Operator : SY/MD
Sample : VSTDICC015
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 14 21:21:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Tue Jan 14 16:31:18 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041896.D
Acq On : 14 Jan 2025 17:33
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 15 03:23:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2
QLast Update : Tue Jan 14 23:15:42 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
ICVVL011425

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.793	49	141664	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.968	114	417936	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.891	117	373391	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.387	95	298000	10.133	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 101.300%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.502	85	190925	9.894	ppbv	97
3) Chlorodifluoromethane	1.479	51	200455	9.916	ppbv	100
4) Chloromethane	1.534	50	71767	9.889	ppbv	95
5) Vinyl Chloride	1.583	62	71974	9.791	ppbv	94
6) Bromomethane	1.670	94	33594	9.589	ppbv	96
7) Chloroethane	1.706	64	29553	10.333	ppbv	100
8) Dichlorotetrafluoroethane	1.557	85	163783	9.712	ppbv	99
9) Propene	1.486	41	82320	9.886	ppbv	99
10) Heptane	4.998	43	225230	10.119	ppbv	99
11) Trichlorofluoromethane	1.881	101	198523	9.890	ppbv	96
12) 1,1,2-Trichlorotrifluo...	2.143	101	159862	10.162	ppbv	100
13) Ethanol	1.725	45	3780	6.197	ppbv	97
14) Bromoethene	1.784	108	57260	9.941	ppbv	98
15) Acetone	1.839	43	150112	8.822	ppbv	98
16) 1,3-Butadiene	1.612	39	73640	9.643	ppbv	100
17) tert-Butyl alcohol	2.046	59	204358	9.758	ppbv	98
18) 1,1-Dichloroethene	2.039	96	71011	10.015	ppbv	96
19) Isopropyl Alcohol	1.890	45	93592	9.277	ppbv	97
20) Methylene Chloride	2.065	84	60115	8.940	ppbv	97
21) Allyl Chloride	2.101	41	118907	10.092	ppbv	97
22) trans-1,2-Dichloroethene	2.347	96	77379	9.669	ppbv	96
23) Vinyl Acetate	2.470	43	80428	9.536	ppbv #	95
24) 1,1-Dichloroethane	2.415	63	155440	10.042	ppbv	98
25) Ethyl Acetate	2.842	43	458484	9.993	ppbv	100
26) Hexane	2.832	57	184436	10.164	ppbv	99
27) Carbon Disulfide	2.156	76	186668	10.395	ppbv	98
28) Methyl tert-Butyl Ether	2.447	73	112489	8.110	ppbv	99
29) Chloroform	2.855	83	282467	9.847	ppbv	99
30) Cyclohexane	3.865	84	159296	10.120	ppbv	99
31) cis-1,2-Dichloroethene	2.729	61	187012	9.787	ppbv	97
32) 1,1,1-Trichloroethane	3.376	97	284661	10.371	ppbv	99
34) 2-Butanone	2.564	43	261536	9.840	ppbv	99
35) Carbon Tetrachloride	3.771	117	285391	10.871	ppbv	96
36) Benzene	3.667	78	374271	9.764	ppbv	99
37) 1,2-Dichloroethane	3.227	62	214545	9.966	ppbv	100
38) Trichloroethene	4.564	130	153255	10.075	ppbv	95
39) 1,2-Dichloropropane	4.324	63	130483	9.704	ppbv	97
40) 1,4-Dioxane	4.599	88	63736	9.386	ppbv #	99
41) Tetrahydrofuran	3.062	42	148132	10.255	ppbv	98
42) Bromodichloromethane	4.506	83	299656	10.381	ppbv	96
43) Methyl Methacrylate	4.894	69	145663	10.229	ppbv	100
44) 2,2,4-Trimethylpentane	4.654	57	619804	9.997	ppbv	100
45) t-1,3-Dichloropropene	6.428	75	145145	10.889	ppbv	98

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041896.D
Acq On : 14 Jan 2025 17:33
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 15 03:23:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2
QLast Update : Tue Jan 14 23:15:42 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
ICVVL011425

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46)	cis-1,3-Dichloropropene	5.616	75	186898	10.680	ppbv		98
47)	1,1,2-Trichloroethane	6.596	97	140891	9.886	ppbv		97
48)	Dibromochloromethane	7.399	129	238244	10.835	ppbv		100
49)	Bromoform	9.493	173	201141	11.136	ppbv		99
50)	4-Methyl-2-Pentanone	5.771	43	363675	10.023	ppbv		99
51)	2-Hexanone	7.451	43	284058	10.189	ppbv	#	99
52)	Tetrachloroethene	8.237	164	127806	9.616	ppbv		98
53)	Toluene	6.949	91	427033	10.227	ppbv		99
54)	1,2-Dibromoethane	7.665	107	199339	10.175	ppbv		95
56)	1,1,1,2-Tetrachloroethane	8.937	131	188209	10.103	ppbv		99
57)	Chlorobenzene	8.933	112	329025	9.553	ppbv		99
58)	Ethyl Benzene	9.364	91	601857	10.314	ppbv		99
59)	m/p-Xylene	9.561	91	964838m	20.628	ppbv		
60)	o-Xylene	9.972	91	480442	10.348	ppbv		100
61)	Styrene	9.878	104	229797	11.034	ppbv		99
62)	Isopropylbenzene	10.548	105	728189	10.136	ppbv		100
63)	1,1,2,2-Tetrachloroethane	9.972	83	290998	9.809	ppbv		100
64)	n-propylbenzene	10.998	120	182397	10.048	ppbv		98
65)	tert-Butylbenzene	11.539	119	657521	10.043	ppbv		100
66)	Benzyl Chloride	11.623	91	42509	10.490	ppbv	#	97
67)	sec-Butylbenzene	11.778	105	901260	9.997	ppbv		98
69)	p-Isopropyltoluene	11.934	119	745566	10.043	ppbv		99
70)	n-Butylbenzene	12.290	91	733637	9.965	ppbv		99
71)	2-Chlorotoluene	10.911	91	543858	10.234	ppbv		100
72)	4-Ethyltoluene	11.134	105	568921	10.245	ppbv		99
73)	1,3,5-Trimethylbenzene	11.212	105	493388	10.061	ppbv		99
74)	1,2,4-Trimethylbenzene	11.545	105	528225	9.946	ppbv		98
75)	1,3-Dichlorobenzene	11.617	146	304133	9.664	ppbv		99
76)	1,4-Dichlorobenzene	11.681	146	297765	9.670	ppbv		99
77)	1,2-Dichlorobenzene	11.956	146	298039	9.555	ppbv		99
78)	Hexachloro-1,3-Butadiene	13.889	225	228592	8.929	ppbv		99
79)	Naphthalene	13.523	128	497063	9.295	ppbv		99
80)	Naphthalene,2-methyl-	14.468	142	187571	7.398	ppbv		98
81)	1,2,4-Trichlorobenzene	13.448	180	236181	9.049	ppbv		99

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

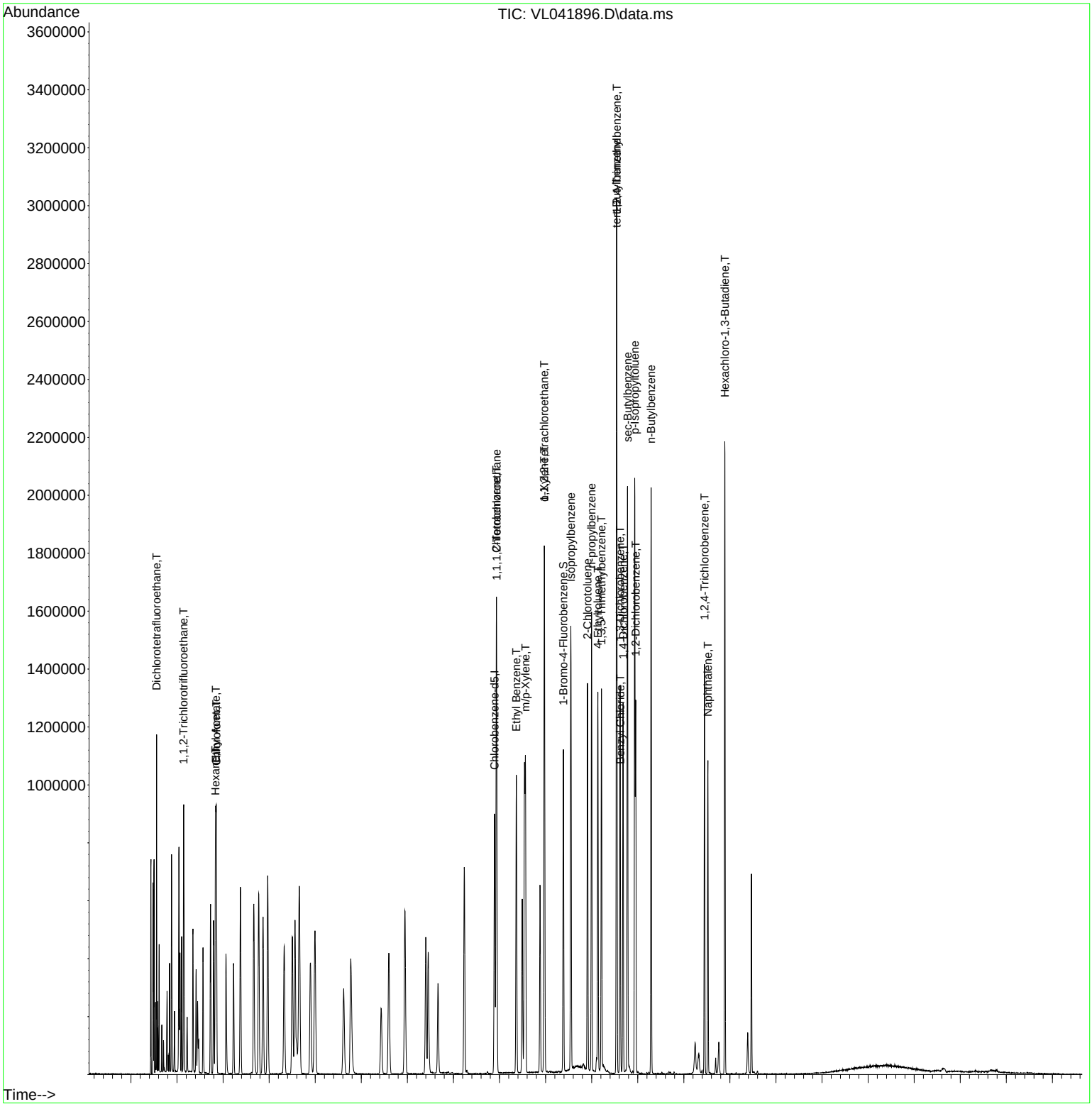
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041896.D
Acq On : 14 Jan 2025 17:33
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 15 03:23:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Tue Jan 14 23:15:42 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
ICVVL011425

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041896.D
Acq On : 14 Jan 2025 17:33
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
ICVVL011425

Quant Time: Jan 15 03:23:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Tue Jan 14 23:15:42 2025
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Bromochloromethane	1.000	1.000	0.0	93	0.00
2	T	Dichlorodifluoromethane	1.362	1.348	1.0	96	0.00
3		Chlorodifluoromethane	1.427	1.415	0.8	99	0.00
4		Chloromethane	0.512	0.507	1.0	96	0.00
5	T	Vinyl Chloride	0.519	0.508	2.1	101	0.00
6	T	Bromomethane	0.247	0.237	4.0	96	0.00
7		Chloroethane	0.202	0.209	-3.5	101	0.00
8	T	Dichlorotetrafluoroethane	1.190	1.156	2.9	98	0.00
9	T	Propene	0.588	0.581	1.2	95	0.00
10	T	Heptane	1.571	1.590	-1.2	97	0.00
11	T	Trichlorofluoromethane	1.417	1.401	1.1	98	0.00
12	T	1,1,2-Trichlorotrifluoroeth	1.110	1.128	-1.6	99	0.00
13		Ethanol	0.043	0.027#	37.2#	91	0.00
14	T	Bromoethene	0.407	0.404	0.7	101	0.00
15	T	Acetone	1.201	1.060	11.7	99	0.00
16	T	1,3-Butadiene	0.539	0.520	3.5	98	0.00
17		tert-Butyl alcohol	1.478	1.443	2.4	96	0.00
18	T	1,1-Dichloroethene	0.501	0.501	0.0	102	0.00
19	T	Isopropyl Alcohol	0.712	0.661	7.2	99	0.00
20	T	Methylene Chloride	0.475	0.424	10.7	101	0.00
21	T	Allyl Chloride	0.832	0.839	-0.8	99	0.00
22	T	trans-1,2-Dichloroethene	0.565	0.546	3.4	94	0.00
23	T	Vinyl Acetate	0.595	0.568	4.5	98	0.00
24	T	1,1-Dichloroethane	1.093	1.097	-0.4	100	0.00
25	T	Ethyl Acetate	3.239	3.236	0.1	97	0.00
26	T	Hexane	1.281	1.302	-1.6	96	0.00
27	T	Carbon Disulfide	1.268	1.318	-3.9	97	0.00
28	T	Methyl tert-Butyl Ether	0.979	0.794	18.9	95	0.00
29	T	Chloroform	2.025	1.994	1.5	97	0.00
30	T	Cyclohexane	1.111	1.124	-1.2	97	0.00
31	T	cis-1,2-Dichloroethene	1.349	1.320	2.1	97	0.00
32	T	1,1,1-Trichloroethane	1.938	2.009	-3.7	98	0.00
33	I	1,4-Difluorobenzene	1.000	1.000	0.0	93	0.00
34	T	2-Butanone	0.636	0.626	1.6	97	0.00
35	T	Carbon Tetrachloride	0.628	0.683	-8.8	98	0.00
36	T	Benzene	0.917	0.896	2.3	94	0.00
37	T	1,2-Dichloroethane	0.515	0.513	0.4	97	0.00
38	T	Trichloroethene	0.364	0.367	-0.8	96	0.00
39	T	1,2-Dichloropropane	0.322	0.312	3.1	95	0.00
40	T	1,4-Dioxane	0.162	0.153	5.6	96	0.00
41	T	Tetrahydrofuran	0.346	0.354	-2.3	95	0.00
42	T	Bromodichloromethane	0.691	0.717	-3.8	98	0.00
43		Methyl Methacrylate	0.341	0.349	-2.3	96	0.00
44	T	2,2,4-Trimethylpentane	1.484	1.483	0.1	95	0.00
45	T	t-1,3-Dichloropropene	0.319	0.347	-8.8	96	0.00
46	T	cis-1,3-Dichloropropene	0.419	0.447	-6.7	93	0.00
47	T	1,1,2-Trichloroethane	0.341	0.337	1.2	94	0.00
48	T	Dibromochloromethane	0.526	0.570	-8.4	97	0.00

Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041896.D
Acq On : 14 Jan 2025 17:33
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
ICVVL011425

Quant Time: Jan 15 03:23:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Tue Jan 14 23:15:42 2025
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49	T	Bromoform	0.432	0.481	-11.3	97	0.00
50	T	4-Methyl-2-Pentanone	0.868	0.870	-0.2	97	0.00
51	T	2-Hexanone	0.667	0.680	-1.9	97	0.00
52	T	Tetrachloroethene	0.318	0.306	3.8	97	0.00
53	T	Toluene	0.999	1.022	-2.3	94	0.00
54	T	1,2-Dibromoethane	0.469	0.477	-1.7	98	0.00
55	I	Chlorobenzene-d5	1.000	1.000	0.0	93	0.00
56		1,1,1,2-Tetrachloroethane	0.499	0.504	-1.0	98	0.00
57	T	Chlorobenzene	0.922	0.881	4.4	97	0.00
58	T	Ethyl Benzene	1.563	1.612	-3.1	97	0.00
59	T	m/p-Xylene	1.253	1.292	-3.1	99	0.00
60	T	o-Xylene	1.243	1.287	-3.5	98	0.00
61	T	Styrene	0.558	0.615	-10.2	98	0.00
62		Isopropylbenzene	1.924	1.950	-1.4	98	0.00
63	T	1,1,2,2-Tetrachloroethane	0.795	0.779	2.0	97	0.00
64		n-propylbenzene	0.486	0.488	-0.4	97	0.00
65		tert-Butylbenzene	1.753	1.761	-0.5	98	0.00
66	T	Benzyl Chloride	0.109	0.114	-4.6	92	0.00
67		sec-Butylbenzene	2.414	2.414	0.0	98	0.00
68	S	1-Bromo-4-Fluorobenzene	0.788	0.798	-1.3	95	0.00
69		p-Isopropyltoluene	1.988	1.997	-0.5	97	0.00
70		n-Butylbenzene	1.972	1.965	0.4	97	0.00
71		2-Chlorotoluene	1.423	1.457	-2.4	98	0.00
72	T	4-Ethyltoluene	1.487	1.524	-2.5	97	0.00
73	T	1,3,5-Trimethylbenzene	1.313	1.321	-0.6	98	0.00
74	T	1,2,4-Trimethylbenzene	1.422	1.415	0.5	98	0.00
75	T	1,3-Dichlorobenzene	0.843	0.815	3.3	98	0.00
76	T	1,4-Dichlorobenzene	0.825	0.797	3.4	97	0.00
77	T	1,2-Dichlorobenzene	0.835	0.798	4.4	98	0.00
78	T	Hexachloro-1,3-Butadiene	0.686	0.612	10.8	97	0.00
79	T	Naphthalene	1.432	1.331	7.1	99	0.00
80	T	Naphthalene,2-methyl-	0.679	0.502	26.1	101	0.00
81	T	1,2,4-Trichlorobenzene	0.699	0.633	9.4	99	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

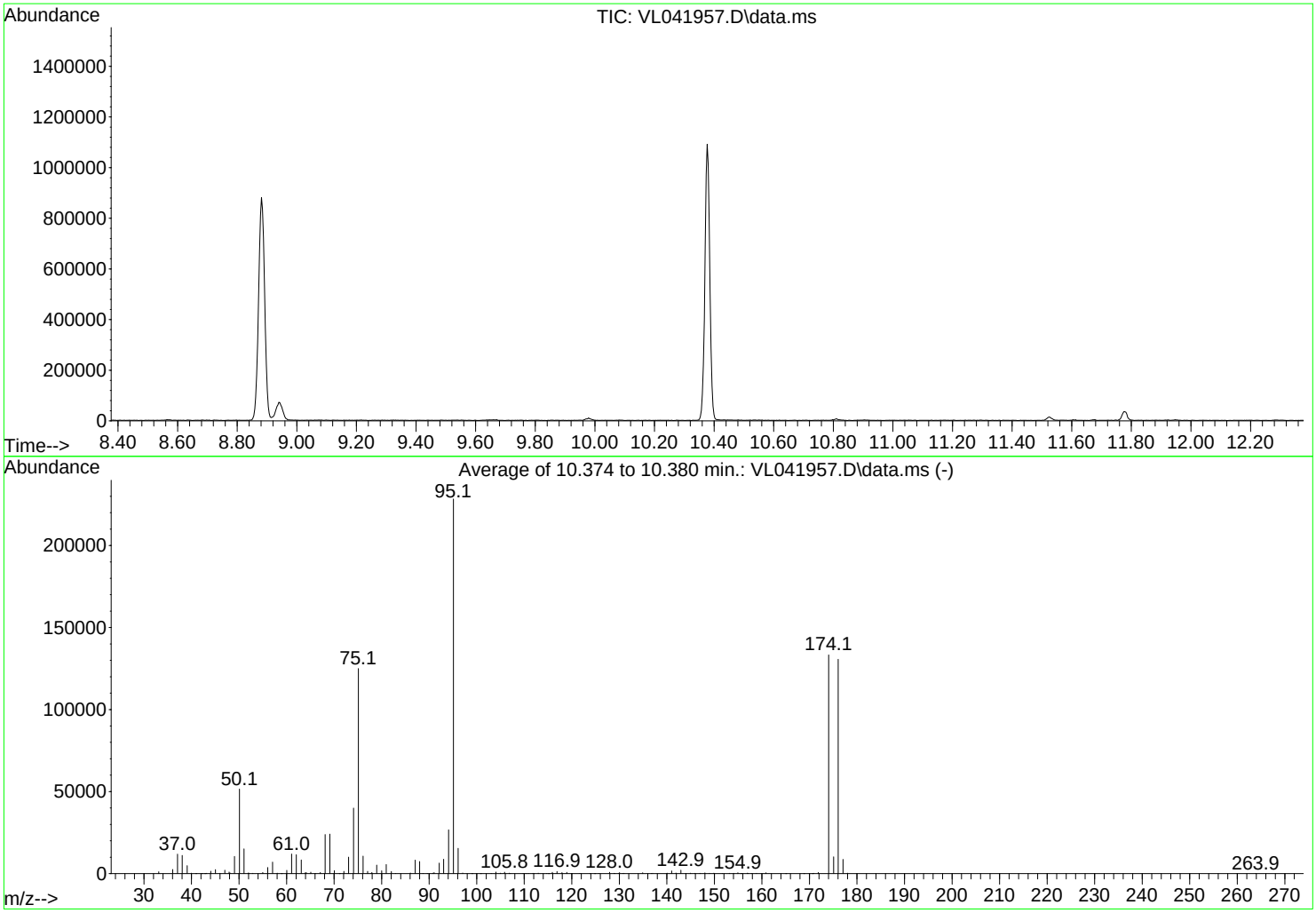
BFB

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL020325\
Data File : VL041957.D
Acq On : 03 Feb 2025 09:47
Operator : SY/MD
Sample : BFB
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
Last Update : Tue Jan 14 23:15:42 2025



AutoFind: Scans 3178, 3179, 3180; Background Corrected with Scan 3165

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	22.6	51539	PASS
75	95	30	66	54.7	125019	PASS
95	95	100	100	100.0	228352	PASS
96	95	5	9	6.8	15439	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	58.4	133352	PASS
175	174	4	9	7.7	10244	PASS
176	174	93	101	98.0	130661	PASS
177	176	5	9	6.6	8641	PASS

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL020325\
Data File : VL041958.D
Acq On : 03 Feb 2025 10:48
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 04 02:30:31 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Tue Jan 14 23:15:42 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 02/04/2025
Supervised By :Mahesh Dadoda 02/04/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.791	49	157470	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	429487	10.000	ppbv	-0.01
55) Chlorobenzene-d5	8.885	117	371333	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.381	95	289698	9.905	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 99.100%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	218366	10.181	ppbv	100
3) Chlorodifluoromethane	1.477	51	231387	10.298	ppbv	99
4) Chloromethane	1.535	50	86482	10.721	ppbv	97
5) Vinyl Chloride	1.580	62	83248	10.188	ppbv	98
6) Bromomethane	1.667	94	38248	9.822	ppbv	99
7) Chloroethane	1.706	64	34164	10.747	ppbv	99
8) Dichlorotetrafluoroethane	1.554	85	186350	9.941	ppbv	99
9) Propene	1.483	41	95902	10.361	ppbv	98
10) Heptane	4.985	43	266975	10.790	ppbv	97
11) Trichlorofluoromethane	1.878	101	212261	9.513	ppbv	97
12) 1,1,2-Trichlorotrifluo...	2.140	101	162930	9.317	ppbv	99
13) Ethanol	1.722	45	4416	6.513	ppbv	99
14) Bromoethene	1.784	108	60620	9.468	ppbv	100
15) Acetone	1.836	43	176459	9.330	ppbv	99
16) 1,3-Butadiene	1.609	39	86792	10.224	ppbv	99
17) tert-Butyl alcohol	2.043	59	206522	8.872	ppbv	99
18) 1,1-Dichloroethene	2.036	96	74437	9.444	ppbv	93
19) Isopropyl Alcohol	1.888	45	101008	9.007	ppbv	94
20) Methylene Chloride	2.062	84	62977	8.426	ppbv	95
21) Allyl Chloride	2.098	41	126741	9.677	ppbv	98
22) trans-1,2-Dichloroethene	2.344	96	86281	9.700	ppbv	97
23) Vinyl Acetate	2.467	43	84390	9.001	ppbv #	98
24) 1,1-Dichloroethane	2.412	63	171515	9.969	ppbv	100
25) Ethyl Acetate	2.839	43	552271	10.829	ppbv	100
26) Hexane	2.829	57	216097	10.713	ppbv	95
27) Carbon Disulfide	2.153	76	200432	10.041	ppbv	99
28) Methyl tert-Butyl Ether	2.444	73	149839	9.719	ppbv	100
29) Chloroform	2.852	83	333879	10.471	ppbv	100
30) Cyclohexane	3.862	84	183180	10.470	ppbv	98
31) cis-1,2-Dichloroethene	2.723	61	208686	9.825	ppbv	95
32) 1,1,1-Trichloroethane	3.370	97	318650	10.444	ppbv	99
34) 2-Butanone	2.561	43	312946	11.458	ppbv	99
35) Carbon Tetrachloride	3.765	117	320703	11.888	ppbv	99
36) Benzene	3.661	78	444350	11.280	ppbv	97
37) 1,2-Dichloroethane	3.221	62	241263	10.905	ppbv	99
38) Trichloroethene	4.551	130	175365	11.218	ppbv	90
39) 1,2-Dichloropropane	4.322	63	155514	11.255	ppbv	98
40) 1,4-Dioxane	4.590	88	74675	10.701	ppbv #	97
41) Tetrahydrofuran	3.059	42	174208	11.736	ppbv	98
42) Bromodichloromethane	4.496	83	344670	11.620	ppbv	96
43) Methyl Methacrylate	4.888	69	156216	10.675	ppbv	95
44) 2,2,4-Trimethylpentane	4.645	57	751181	11.790	ppbv	99
45) t-1,3-Dichloropropene	6.425	75	148089	10.811	ppbv	98

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL020325\
Data File : VL041958.D
Acq On : 03 Feb 2025 10:48
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 04 02:30:31 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Tue Jan 14 23:15:42 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 02/04/2025
Supervised By :Mahesh Dadoda 02/04/2025

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46)	cis-1,3-Dichloropropene	5.610	75	202762	11.274	ppbv		99
47)	1,1,2-Trichloroethane	6.590	97	167097	11.410	ppbv		98
48)	Dibromochloromethane	7.393	129	269437	11.924	ppbv		99
49)	Bromoform	9.487	173	225054	12.125	ppbv		100
50)	4-Methyl-2-Pentanone	5.762	43	428753	11.499	ppbv		98
51)	2-Hexanone	7.445	43	336693	11.752	ppbv	#	96
52)	Tetrachloroethene	8.231	164	139466	10.211	ppbv		95
53)	Toluene	6.940	91	483814	11.275	ppbv		100
54)	1,2-Dibromoethane	7.659	107	229203	11.384	ppbv		97
56)	1,1,1,2-Tetrachloroethane	8.931	131	220185	11.885	ppbv		99
57)	Chlorobenzene	8.927	112	386374	11.280	ppbv		98
58)	Ethyl Benzene	9.358	91	669174	11.531	ppbv		97
59)	m/p-Xylene	9.555	91	1106231m	23.782	ppbv		
60)	o-Xylene	9.969	91	555194	12.025	ppbv		98
61)	Styrene	9.876	104	246355	11.895	ppbv		99
62)	Isopropylbenzene	10.542	105	834260	11.677	ppbv		99
63)	1,1,2,2-Tetrachloroethane	9.966	83	362310	12.280	ppbv		99
64)	n-propylbenzene	10.992	120	215585	11.942	ppbv		98
65)	tert-Butylbenzene	11.536	119	746398	11.464	ppbv		99
66)	Benzyl Chloride	11.620	91	44973	11.160	ppbv		98
67)	sec-Butylbenzene	11.772	105	1044912	11.655	ppbv		100
69)	p-Isopropyltoluene	11.931	119	867909	11.756	ppbv		99
70)	n-Butylbenzene	12.284	91	848499	11.589	ppbv		100
71)	2-Chlorotoluene	10.905	91	615388	11.644	ppbv		98
72)	4-Ethyltoluene	11.128	105	658660	11.926	ppbv		100
73)	1,3,5-Trimethylbenzene	11.209	105	566361	11.613	ppbv		96
74)	1,2,4-Trimethylbenzene	11.542	105	616177	11.666	ppbv		90
75)	1,3-Dichlorobenzene	11.614	146	357966	11.437	ppbv		99
76)	1,4-Dichlorobenzene	11.675	146	352145	11.500	ppbv		100
77)	1,2-Dichlorobenzene	11.950	146	355386	11.457	ppbv		100
78)	Hexachloro-1,3-Butadiene	13.886	225	247691	9.729	ppbv		99
79)	Naphthalene	13.517	128	553420	10.407	ppbv		99
80)	Naphthalene,2-methyl-	14.465	142	173813	6.894	ppbv		97
81)	1,2,4-Trichlorobenzene	13.446	180	251038	9.671	ppbv		98

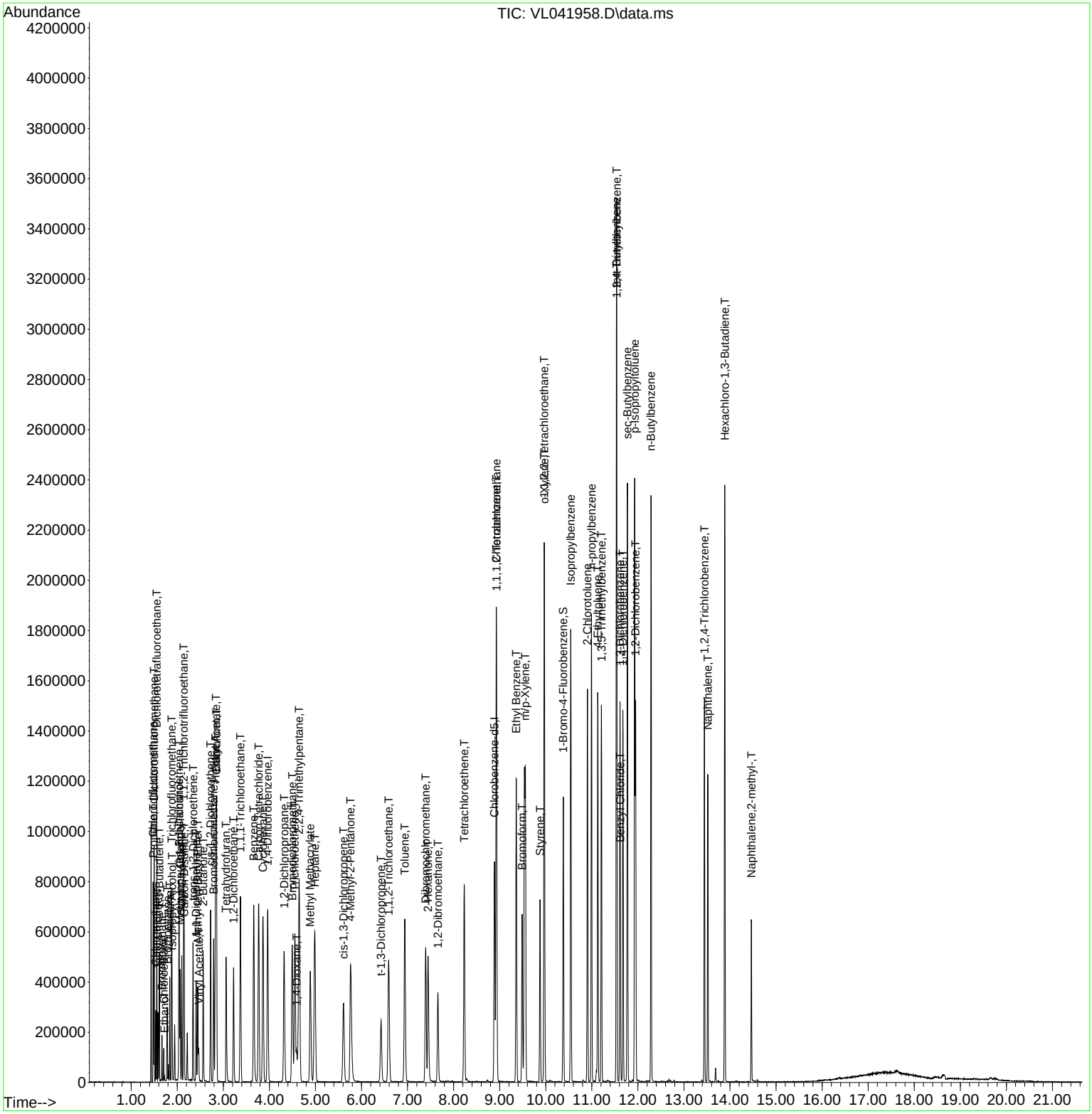
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL020325\
Data File : VL041958.D
Acq On : 03 Feb 2025 10:48
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 04 02:30:31 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Tue Jan 14 23:15:42 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 02/04/2025
Supervised By :Mahesh Dadoda 02/04/2025



Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL020325\
Data File : VL041958.D
Acq On : 03 Feb 2025 10:48
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
LabSampleId :
VSTDCCC010

Quant Time: Feb 04 02:30:31 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Tue Jan 14 23:15:42 2025
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Bromochloromethane	1.000	1.000	0.0	103	0.00
2	T	Dichlorodifluoromethane	1.362	1.387	-1.8	110	0.00
3		Chlorodifluoromethane	1.427	1.469	-2.9	114	0.00
4		Chloromethane	0.512	0.549	-7.2	115	0.00
5	T	Vinyl Chloride	0.519	0.529	-1.9	117	0.00
6	T	Bromomethane	0.247	0.243	1.6	110	0.00
7		Chloroethane	0.202	0.217	-7.4	116	0.00
8	T	Dichlorotetrafluoroethane	1.190	1.183	0.6	112	0.00
9	T	Propene	0.588	0.609	-3.6	111	0.00
10	T	Heptane	1.571	1.695	-7.9	115	-0.02
11	T	Trichlorofluoromethane	1.417	1.348	4.9	104	0.00
12	T	1,1,2-Trichlorotrifluoroeth	1.110	1.035	6.8	101	0.00
13		Ethanol	0.043	0.028#	34.9#	106	0.00
14	T	Bromoethene	0.407	0.385	5.4	107	0.00
15	T	Acetone	1.201	1.121	6.7	117	0.00
16	T	1,3-Butadiene	0.539	0.551	-2.2	115	0.00
17		tert-Butyl alcohol	1.478	1.312	11.2	97	0.00
18	T	1,1-Dichloroethene	0.501	0.473	5.6	107	0.00
19	T	Isopropyl Alcohol	0.712	0.641	10.0	107	0.00
20	T	Methylene Chloride	0.475	0.400	15.8	106	0.00
21	T	Allyl Chloride	0.832	0.805	3.2	105	0.00
22	T	trans-1,2-Dichloroethene	0.565	0.548	3.0	105	0.00
23	T	Vinyl Acetate	0.595	0.536	9.9	103	0.00
24	T	1,1-Dichloroethane	1.093	1.089	0.4	111	0.00
25	T	Ethyl Acetate	3.239	3.507	-8.3	117	0.00
26	T	Hexane	1.281	1.372	-7.1	113	0.00
27	T	Carbon Disulfide	1.268	1.273	-0.4	105	0.00
28	T	Methyl tert-Butyl Ether	0.979	0.952	2.8	127	0.00
29	T	Chloroform	2.025	2.120	-4.7	115	0.00
30	T	Cyclohexane	1.111	1.163	-4.7	111	0.00
31	T	cis-1,2-Dichloroethene	1.349	1.325	1.8	108	0.00
32	T	1,1,1-Trichloroethane	1.938	2.024	-4.4	110	0.00
33	I	1,4-Difluorobenzene	1.000	1.000	0.0	96	-0.01
34	T	2-Butanone	0.636	0.729	-14.6	116	0.00
35	T	Carbon Tetrachloride	0.628	0.747	-18.9	110	-0.01
36	T	Benzene	0.917	1.035	-12.9	112	0.00
37	T	1,2-Dichloroethane	0.515	0.562	-9.1	109	0.00
38	T	Trichloroethene	0.364	0.408	-12.1	110	-0.01
39	T	1,2-Dichloropropane	0.322	0.362	-12.4	113	0.00
40	T	1,4-Dioxane	0.162	0.174	-7.4	113	-0.02
41	T	Tetrahydrofuran	0.346	0.406	-17.3	112	0.00
42	T	Bromodichloromethane	0.691	0.803	-16.2	112	-0.01
43		Methyl Methacrylate	0.341	0.364	-6.7	103	0.00
44	T	2,2,4-Trimethylpentane	1.484	1.749	-17.9	115	-0.01
45	T	t-1,3-Dichloropropene	0.319	0.345	-8.2	97	0.00
46	T	cis-1,3-Dichloropropene	0.419	0.472	-12.6	101	-0.01
47	T	1,1,2-Trichloroethane	0.341	0.389	-14.1	112	0.00
48	T	Dibromochloromethane	0.526	0.627	-19.2	110	0.00

Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL020325\
Data File : VL041958.D
Acq On : 03 Feb 2025 10:48
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
LabSampleId :
VSTDCCC010

Quant Time: Feb 04 02:30:31 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Tue Jan 14 23:15:42 2025
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49	T	Bromoform	0.432	0.524	-21.3	109	0.00
50	T	4-Methyl-2-Pentanone	0.868	0.998	-15.0	115	-0.02
51	T	2-Hexanone	0.667	0.784	-17.5	115	0.00
52	T	Tetrachloroethene	0.318	0.325	-2.2	106	0.00
53	T	Toluene	0.999	1.126	-12.7	107	-0.01
54	T	1,2-Dibromoethane	0.469	0.534	-13.9	112	0.00
55	I	Chlorobenzene-d5	1.000	1.000	0.0	93	0.00
56		1,1,1,2-Tetrachloroethane	0.499	0.593	-18.8	114	0.00
57	T	Chlorobenzene	0.922	1.041	-12.9	114	0.00
58	T	Ethyl Benzene	1.563	1.802	-15.3	108	0.00
59	T	m/p-Xylene	1.253	1.490	-18.9	113	0.00
60	T	o-Xylene	1.243	1.495	-20.3	113	0.00
61	T	Styrene	0.558	0.663	-18.8	105	0.00
62		Isopropylbenzene	1.924	2.247	-16.8	112	0.00
63	T	1,1,2,2-Tetrachloroethane	0.795	0.976	-22.8	121	0.00
64		n-propylbenzene	0.486	0.581	-19.5	115	0.00
65		tert-Butylbenzene	1.753	2.010	-14.7	111	0.00
66	T	Benzyl Chloride	0.109	0.121	-11.0	98	0.00
67		sec-Butylbenzene	2.414	2.814	-16.6	114	0.00
68	S	1-Bromo-4-Fluorobenzene	0.788	0.780	1.0	92	0.00
69		p-Isopropyltoluene	1.988	2.337	-17.6	113	0.00
70		n-Butylbenzene	1.972	2.285	-15.9	112	0.00
71		2-Chlorotoluene	1.423	1.657	-16.4	111	0.00
72	T	4-Ethyltoluene	1.487	1.774	-19.3	112	0.00
73	T	1,3,5-Trimethylbenzene	1.313	1.525	-16.1	112	0.00
74	T	1,2,4-Trimethylbenzene	1.422	1.659	-16.7	114	0.00
75	T	1,3-Dichlorobenzene	0.843	0.964	-14.4	115	0.00
76	T	1,4-Dichlorobenzene	0.825	0.948	-14.9	114	0.00
77	T	1,2-Dichlorobenzene	0.835	0.957	-14.6	117	0.00
78	T	Hexachloro-1,3-Butadiene	0.686	0.667	2.8	106	0.00
79	T	Naphthalene	1.432	1.490	-4.1	110	0.00
80	T	Naphthalene,2-methyl-	0.679	0.468	31.1#	94	0.00
81	T	1,2,4-Trichlorobenzene	0.699	0.676	3.3	105	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL020325\
Data File : VL041960.D
Acq On : 03 Feb 2025 12:05
Operator : SY/MD
Sample : VL0203ABL02
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0203ABL02

Quant Time: Feb 04 02:33:07 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Tue Jan 14 23:15:42 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.790	49	151198	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	407814	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.888	117	347345	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.380	95	262058	9.579	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 95.800%			
Target Compounds						Qvalue

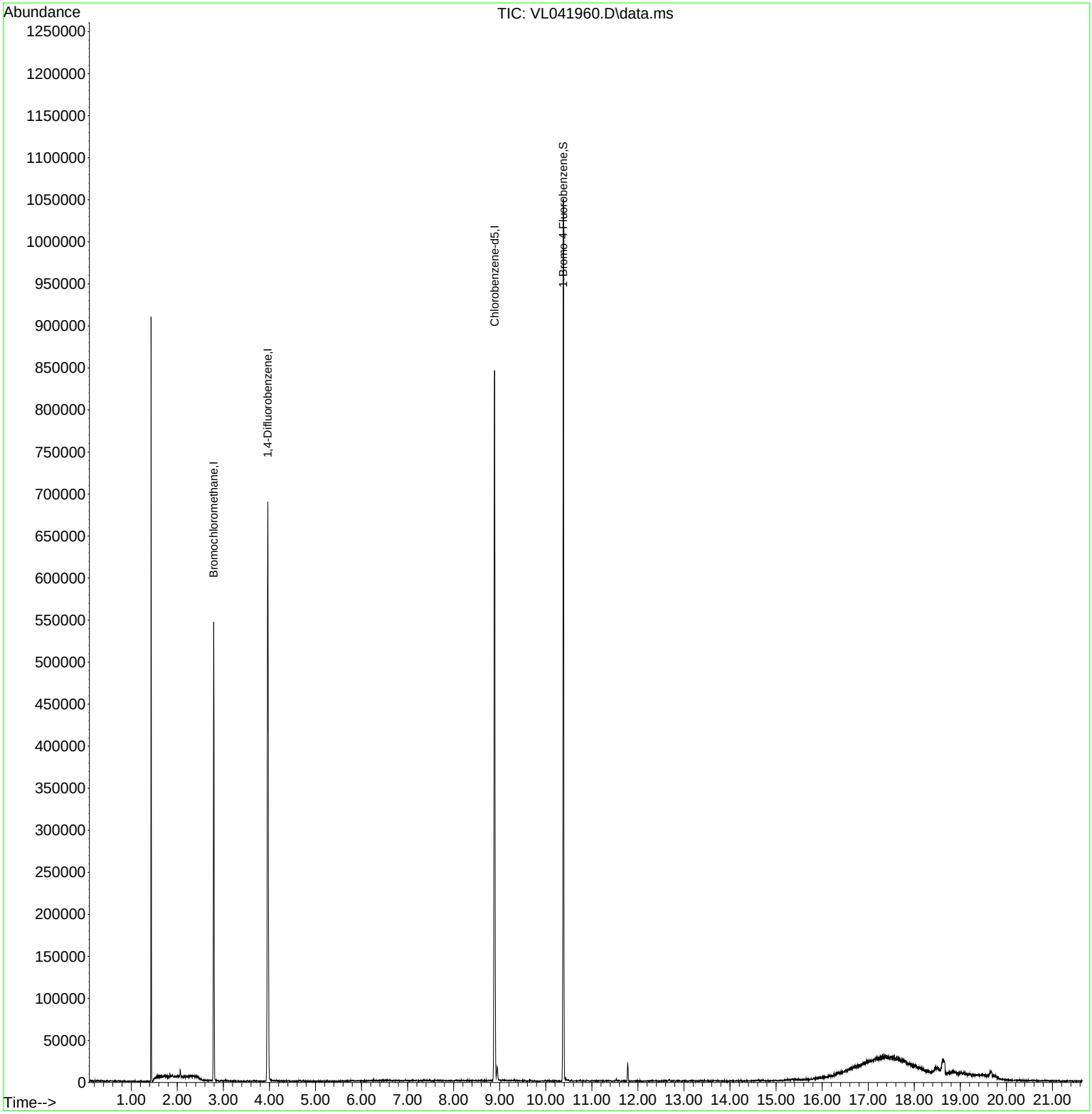
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL020325\
Data File : VL041960.D
Acq On : 03 Feb 2025 12:05
Operator : SY/MD
Sample : VL0203ABL02
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0203ABL02

Quant Time: Feb 04 02:33:07 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Tue Jan 14 23:15:42 2025
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL020325\
Data File : VL041961.D
Acq On : 03 Feb 2025 12:57
Operator : SY/MD
Sample : VL0203ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 04 02:34:05 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Tue Jan 14 23:15:42 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VL0203ABS01

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 02/04/2025
Supervised By :Mahesh Dadoda 02/04/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.790	49	152847	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	418895	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.882	117	367437	10.000	ppbv	-0.01
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.380	95	287209	9.924	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 99.200%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	203280	9.764	ppbv	99
3) Chlorodifluoromethane	1.476	51	225433	10.336	ppbv	99
4) Chloromethane	1.535	50	81880	10.457	ppbv	94
5) Vinyl Chloride	1.583	62	77713	9.799	ppbv	98
6) Bromomethane	1.670	94	36640	9.694	ppbv	88
7) Chloroethane	1.706	64	31280	10.137	ppbv	94
8) Dichlorotetrafluoroethane	1.557	85	179670	9.875	ppbv	98
9) Propene	1.486	41	91411	10.174	ppbv	99
10) Heptane	4.985	43	161638	6.731	ppbv	99
11) Trichlorofluoromethane	1.881	101	201683	9.312	ppbv	96
12) 1,1,2-Trichlorotrifluo...	2.143	101	164938	9.717	ppbv	98
13) Ethanol	1.722	45	4592	6.978	ppbv	91
14) Bromoethene	1.784	108	57833	9.306	ppbv	99
15) Acetone	1.839	43	165826	9.033	ppbv	98
16) 1,3-Butadiene	1.609	39	83163	10.093	ppbv	98
17) tert-Butyl alcohol	2.043	59	198776	8.797	ppbv	98
18) 1,1-Dichloroethene	2.036	96	70323	9.192	ppbv	97
19) Isopropyl Alcohol	1.891	45	99004	9.096	ppbv	95
20) Methylene Chloride	2.065	84	62278	8.584	ppbv	99
21) Allyl Chloride	2.098	41	122853	9.664	ppbv	98
22) trans-1,2-Dichloroethene	2.344	96	85089	9.855	ppbv	98
23) Vinyl Acetate	2.467	43	86919	9.552	ppbv #	96
24) 1,1-Dichloroethane	2.412	63	166034	9.942	ppbv	99
25) Ethyl Acetate	2.842	43	536156	10.831	ppbv	100
26) Hexane	2.832	57	210051	10.728	ppbv	95
27) Carbon Disulfide	2.153	76	198444	10.242	ppbv	99
28) Methyl tert-Butyl Ether	2.444	73	110198	7.364	ppbv	99
29) Chloroform	2.855	83	325966	10.532	ppbv	96
30) Cyclohexane	3.865	84	173840	10.236	ppbv	98
31) cis-1,2-Dichloroethene	2.726	61	204611	9.925	ppbv	95
32) 1,1,1-Trichloroethane	3.376	97	305623	10.320	ppbv	99
34) 2-Butanone	2.564	43	302190	11.344	ppbv	99
35) Carbon Tetrachloride	3.768	117	309917	11.778	ppbv	97
36) Benzene	3.664	78	426241	11.094	ppbv	99
37) 1,2-Dichloroethane	3.224	62	235620	10.920	ppbv	99
38) Trichloroethene	4.554	130	167629	10.995	ppbv	97
39) 1,2-Dichloropropane	4.318	63	151232	11.221	ppbv	97
40) 1,4-Dioxane	4.590	88	74021	10.876	ppbv #	100
41) Tetrahydrofuran	3.062	42	169798	11.728	ppbv	98
42) Bromodichloromethane	4.496	83	335595	11.600	ppbv	98
43) Methyl Methacrylate	4.884	69	102724	7.197	ppbv	96
44) 2,2,4-Trimethylpentane	4.648	57	725196	11.670	ppbv	99
45) t-1,3-Dichloropropene	6.422	75	145441	10.886	ppbv	94

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL020325\
Data File : VL041961.D
Acq On : 03 Feb 2025 12:57
Operator : SY/MD
Sample : VL0203ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 04 02:34:05 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Tue Jan 14 23:15:42 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VL0203ABS01

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 02/04/2025
Supervised By :Mahesh Dadoda 02/04/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) cis-1,3-Dichloropropene	5.609	75	122518	6.985	ppbv		98
47) 1,1,2-Trichloroethane	6.590	97	167038	11.694	ppbv		95
48) Dibromochloromethane	7.390	129	260120	11.803	ppbv		100
49) Bromoform	9.487	173	217089	11.991	ppbv		99
50) 4-Methyl-2-Pentanone	5.765	43	267280	7.350	ppbv		98
51) 2-Hexanone	7.445	43	328817	11.767	ppbv	#	96
52) Tetrachloroethene	8.225	164	136143	10.220	ppbv		97
53) Toluene	6.936	91	469033	11.207	ppbv		99
54) 1,2-Dibromoethane	7.655	107	222983	11.356	ppbv		100
56) 1,1,1,2-Tetrachloroethane	8.927	131	214758	11.715	ppbv		99
57) Chlorobenzene	8.924	112	382465	11.284	ppbv		99
58) Ethyl Benzene	9.357	91	646825	11.264	ppbv		98
59) m/p-Xylene	9.555	91	1068374m	23.212	ppbv		
60) o-Xylene	9.966	91	537558	11.766	ppbv		98
61) Styrene	9.872	104	239767	11.699	ppbv		98
62) Isopropylbenzene	10.542	105	802003	11.345	ppbv		99
63) 1,1,2,2-Tetrachloroethane	9.966	83	357905	12.260	ppbv		100
64) n-propylbenzene	10.992	120	208748	11.686	ppbv		99
65) tert-Butylbenzene	11.536	119	731901	11.360	ppbv		99
66) Benzyl Chloride	11.620	91	41013	10.285	ppbv		97
67) sec-Butylbenzene	11.772	105	1015579	11.448	ppbv		99
69) p-Isopropyltoluene	11.931	119	836492	11.451	ppbv		98
70) n-Butylbenzene	12.290	91	824000	11.374	ppbv		100
71) 2-Chlorotoluene	10.905	91	592446	11.329	ppbv		99
72) 4-Ethyltoluene	11.131	105	634050	11.602	ppbv		99
73) 1,3,5-Trimethylbenzene	11.209	105	551677	11.432	ppbv		97
74) 1,2,4-Trimethylbenzene	11.542	105	602744	11.533	ppbv		96
75) 1,3-Dichlorobenzene	11.613	146	348392	11.249	ppbv		99
76) 1,4-Dichlorobenzene	11.678	146	344428	11.367	ppbv		99
77) 1,2-Dichlorobenzene	11.953	146	350456	11.418	ppbv		98
78) Hexachloro-1,3-Butadiene	13.892	225	239328	9.500	ppbv		99
79) Naphthalene	13.523	128	539332	10.249	ppbv		98
80) Naphthalene,2-methyl-	14.468	142	172189	6.902	ppbv		97
81) 1,2,4-Trichlorobenzene	13.452	180	244059	9.502	ppbv		99

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

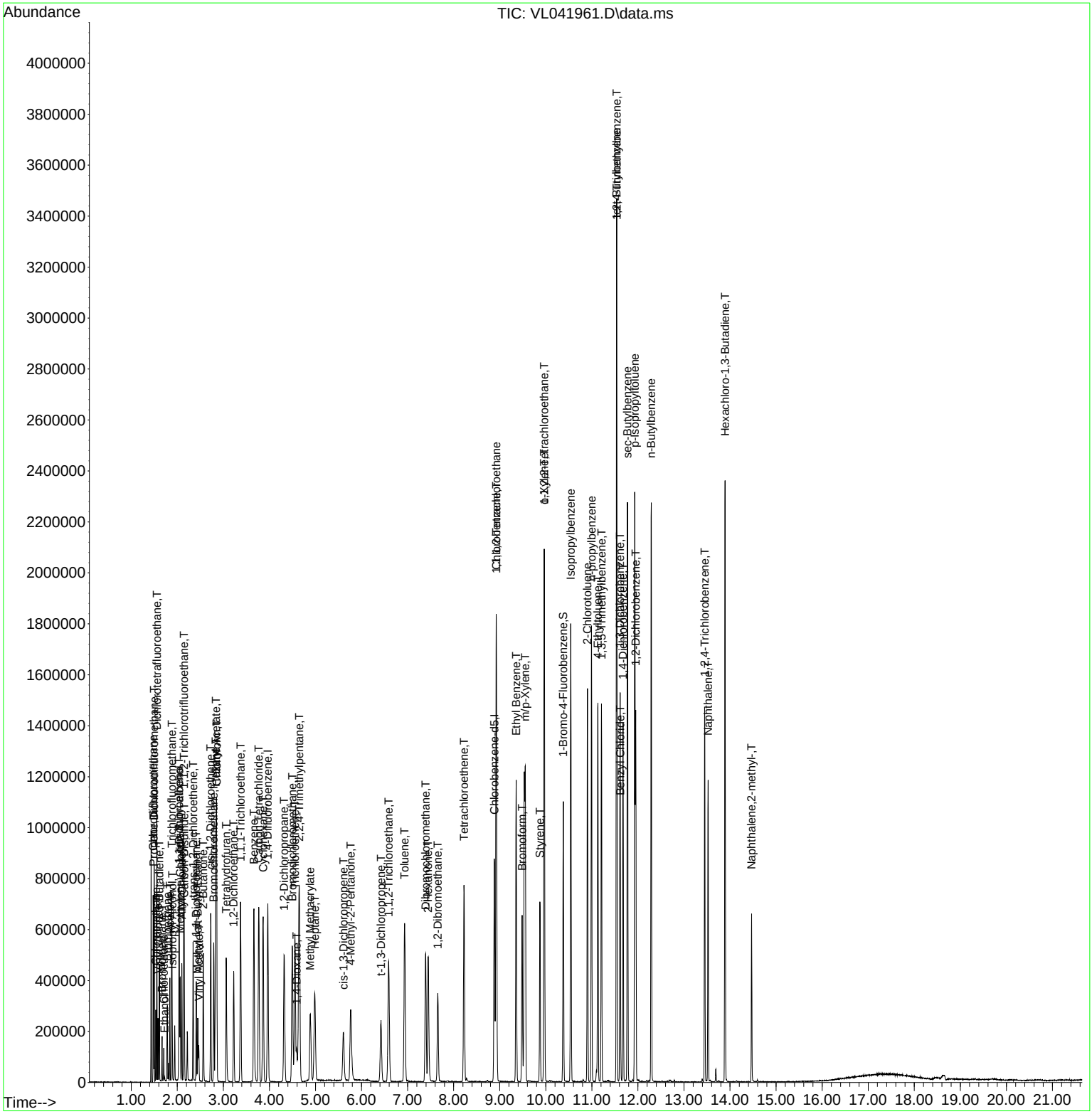
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL020325\
Data File : VL041961.D
Acq On : 03 Feb 2025 12:57
Operator : SY/MD
Sample : VL0203ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 04 02:34:05 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Tue Jan 14 23:15:42 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VL0203ABS01

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 02/04/2025
Supervised By :Mahesh Dadoda 02/04/2025



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL020325\
Data File : VL041966.D
Acq On : 03 Feb 2025 16:02
Operator : SY/MD
Sample : QC012825 CAN 10439
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
QC012825 CAN 10439

Quant Time: Feb 04 02:38:09 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Tue Jan 14 23:15:42 2025
Response via : Initial Calibration

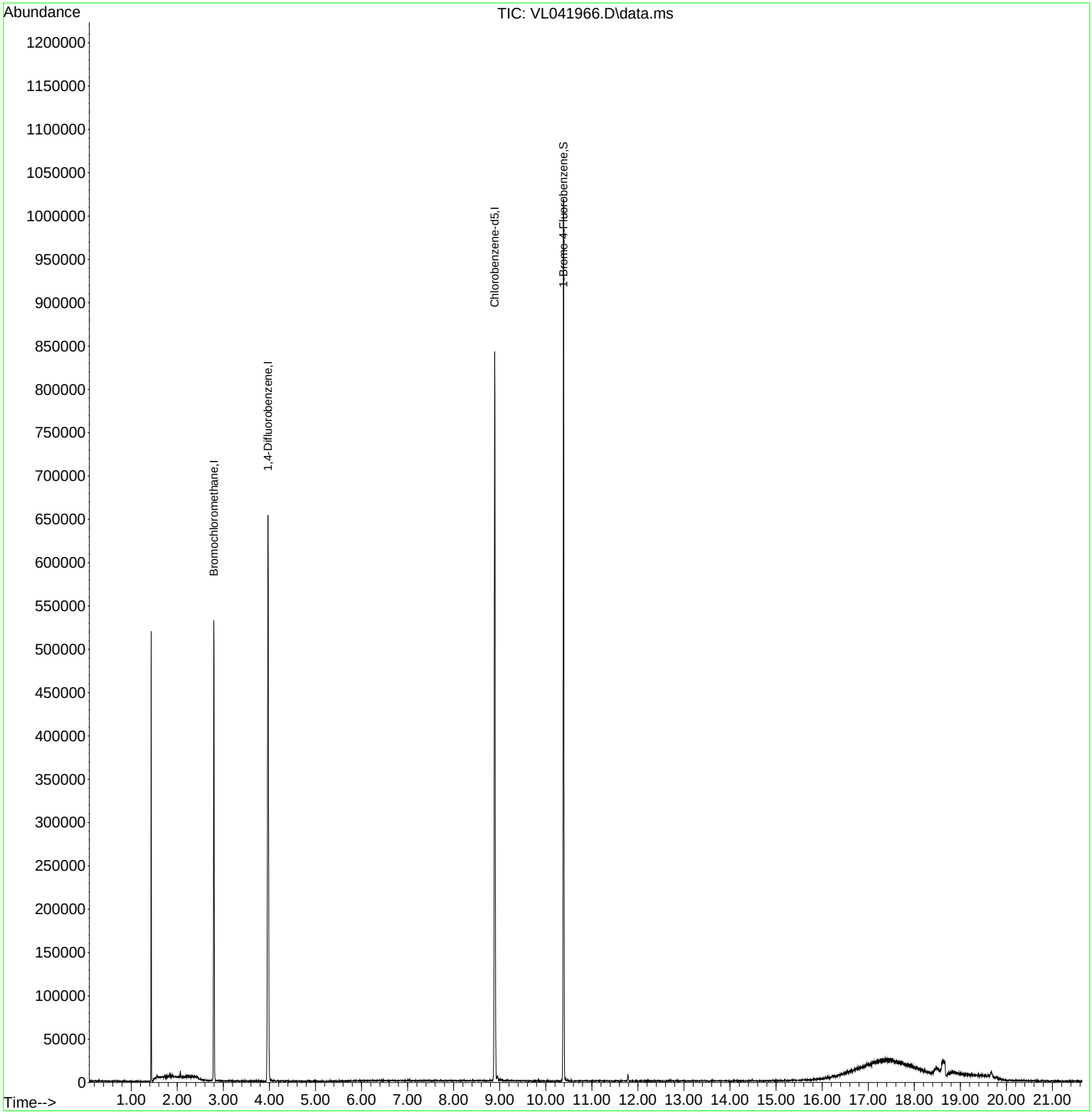
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.793	49	146182	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.968	114	402503	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.891	117	341049	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.383	95	256800	9.560	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 95.600%			
Target Compounds						Qvalue

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL020325\
Data File : VL041966.D
Acq On : 03 Feb 2025 16:02
Operator : SY/MD
Sample : QC012825 CAN 10439
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
QC012825 CAN 10439

Quant Time: Feb 04 02:38:09 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Tue Jan 14 23:15:42 2025
Response via : Initial Calibration



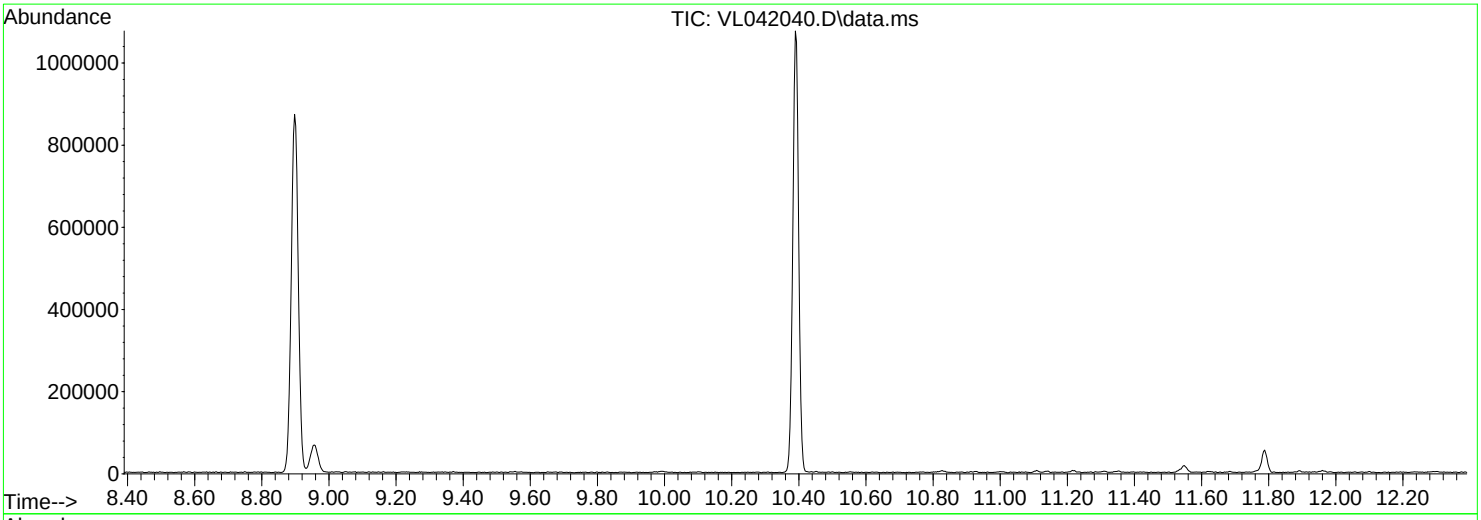
BFB

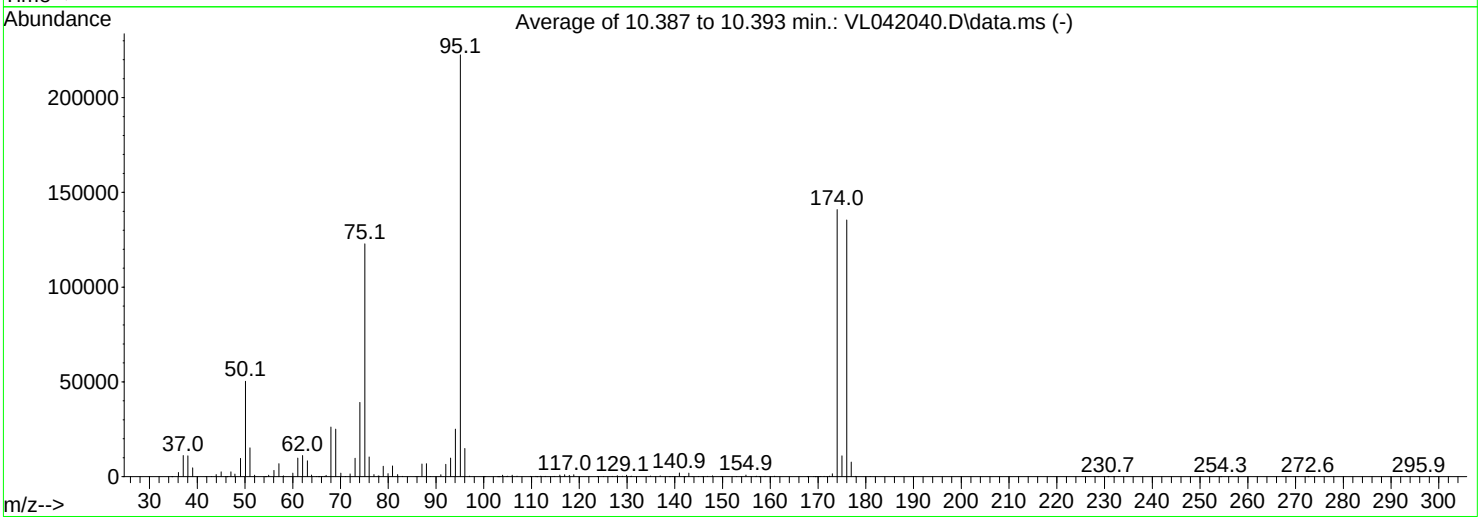
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
Data File : VL042040.D
Acq On : 25 Feb 2025 07:56
Operator : SY/MD
Sample : BFB
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
Last Update : Wed Feb 26 01:08:36 2025





AutoFind: Scans 3182, 3183, 3184; Background Corrected with Scan 3168

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	22.6	50320	PASS
75	95	30	66	55.2	122859	PASS
95	95	100	100	100.0	222571	PASS
96	95	5	9	6.7	14875	PASS
173	174	0.00	2	1.1	1534	PASS
174	95	50	120	63.3	140957	PASS
175	174	4	9	7.8	11014	PASS
176	174	93	101	96.1	135437	PASS
177	176	5	9	5.7	7676	PASS

Response Factor Report MSVOA_L

Method Path : Z:\voasrv\HPCHEM1\MSVOA_L\methods\
Method File : VL022525AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
Last Update : Wed Feb 26 01:08:36 2025
Response Via : Initial Calibration

Calibration Files
0.03=VL042046.D 0.1 =VL042045.D 0.5 =VL042044.D 1 =VL042043.D 2 =VL042042.D 10 =VL042041.D 15 =VL042047.D

		Compound	0.03	0.1	0.5	1	2	10	15	Avg	%RSD
1)	I	Bromochloromethane	----------ISTD----------								
2)	T	Dichlorodifluo...			1.109	1.084	1.091	0.943	0.973	1.040	7.31
3)		Chlorodifluoro...			1.493	1.566	1.535	1.311	1.362	1.453	7.67
4)		Chloromethane			0.438	0.398	0.399	0.344	0.344	0.385	10.53
5)	T	Vinyl Chloride	0.447	0.336	0.376	0.346	0.361	0.337	0.343	0.364	10.89
6)	T	Bromomethane			0.170	0.184	0.186	0.160	0.165	0.173	6.63
7)		Chloroethane			0.151	0.158	0.156	0.135	0.140	0.148	6.83
8)	T	Dichlorotetraf...			0.892	0.910	0.901	0.779	0.791	0.855	7.47
9)	T	Propene			0.614	0.630	0.636	0.522	0.558	0.592	8.47
10)	T	Heptane			1.971	1.946	1.960	1.662	1.679	1.844	8.59
11)	T	Trichlorofluor...			1.056	1.122	1.119	0.944	0.968	1.042	7.98
12)	T	1,1,2-Trichlor...			0.919	0.902	0.865	0.697	0.773	0.831	11.28
13)		Ethanol			0.053	0.057	0.040	0.020	0.018	0.038#	48.50
14)	T	Bromoethene			0.325	0.304	0.299	0.264	0.275	0.293	8.41
15)	T	Acetone			1.084	0.960	0.933	0.714	0.723	0.883	18.17
16)	T	1,3-Butadiene			0.476	0.435	0.418	0.358	0.367	0.411	11.96
17)		tert-Butyl alc...			1.184	1.185	1.201	0.950	1.004	1.105	10.71
18)	T	1,1-Dichloroet...			0.398	0.437	0.386	0.320	0.338	0.376	12.57
19)	T	Isopropyl Alcohol			0.561	0.571	0.557	0.419	0.429	0.507	15.06
20)	T	Methylene Chlo...			0.429	0.374	0.329	0.261	0.278	0.334	20.72
21)	T	Allyl Chloride			0.707	0.717	0.639	0.538	0.590	0.638	11.94
22)	T	trans-1,2-Dich...			0.481	0.506	0.450	0.358	0.395	0.438	13.90
23)	T	Vinyl Acetate			0.689	0.614	0.695	0.520	0.586	0.621	11.82
24)	T	1,1-Dichloroet...			0.927	0.856	0.863	0.669	0.758	0.815	12.42
25)	T	Ethyl Acetate			3.833	3.674	3.776	3.174	3.217	3.535	8.91
26)	T	Hexane			1.596	1.462	1.519	1.282	1.287	1.429	9.83
27)	T	Carbon Disulfide			1.042	0.972	1.032	0.856	0.942	0.969	7.78
28)	T	Methyl tert-Bu...			0.650	0.844	0.838	0.522	0.705	0.711	19.02
29)	T	Chloroform			2.165	2.044	1.971	1.722	1.716	1.923	10.36
30)	T	Cyclohexane			1.154	1.239	1.255	1.076	1.076	1.160	7.39
31)	T	cis-1,2-Dichlo...			1.421	1.401	1.450	1.237	1.255	1.353	7.33
32)	T	1,1,1-Trichlor...	1.921	1.875	1.883	1.916	1.944	1.771	1.751	1.866	4.05
33)	I	1,4-Difluorobenzene	----------ISTD----------								
34)	T	2-Butanone			0.833	0.799	0.812	0.692	0.759	0.779	7.15
35)	T	Carbon Tetrach...	0.664	0.705	0.675	0.723	0.725	0.655	0.681	0.690	4.09
36)	T	Benzene			1.079	1.084	1.104	0.969	0.999	1.047	5.66
37)	T	1,2-Dichloroet...			0.624	0.604	0.598	0.520	0.556	0.580	7.20
38)	T	Trichloroethene	0.447	0.462	0.433	0.447	0.447	0.378	0.379	0.427	8.06
39)	T	1,2-Dichloropr...			0.421	0.415	0.414	0.357	0.379	0.397	7.02

Response Factor Report MSVOA_L

Method Path : Z:\voasrv\HPCHEM1\MSVOA_L\methods\
Method File : VL022525AIR.M

40)	T	1,4-Dioxane			0.192	0.196	0.181	0.164	0.173	0.181	7.31
41)	T	Tetrahydrofuran			0.469	0.492	0.473	0.418	0.450	0.460	6.04
42)	T	Bromodichlorom...			0.806	0.791	0.810	0.739	0.765	0.782	3.81
43)		Methyl Methacr...			0.400	0.418	0.426	0.392	0.409	0.409	3.35
44)	T	2,2,4-Trimethy...			1.928	1.935	1.955	1.670	1.750	1.848	6.99
45)	T	t-1,3-Dichloro...			0.414	0.392	0.418	0.393	0.414	0.406	3.12
46)	T	cis-1,3-Dichlo...			0.514	0.523	0.548	0.516	0.526	0.526	2.59
47)	T	1,1,2-Trichlor...			0.426	0.429	0.426	0.361	0.375	0.403	8.12
48)	T	Dibromochlorom...			0.618	0.667	0.667	0.594	0.613	0.632	5.25
49)	T	Bromoform			0.553	0.551	0.588	0.525	0.526	0.549	4.68
50)	T	4-Methyl-2-Pen...			0.996	0.974	0.975	1.014	1.079	1.008	4.27
51)	T	2-Hexanone			0.577	0.570	0.608	0.834	0.879	0.693	21.69
52)	T	Tetrachloroethene	0.322	0.374	0.380	0.383	0.385	0.327	0.337	0.358	7.88
53)	T	Toluene			1.150	1.210	1.284	1.088	1.118	1.170	6.67
54)	T	1,2-Dibromoethane		0.563	0.556	0.553	0.586	0.500	0.514	0.545	5.87
55)	I	Chlorobenzene-d5	----------ISTD----------								
56)		1,1,1,2-Tetrac...			0.607	0.596	0.595	0.505	0.524	0.565	8.37
57)	T	Chlorobenzene			1.102	1.113	1.121	0.910	0.938	1.037	10.02
58)	T	Ethyl Benzene			1.886	1.906	1.974	1.694	1.749	1.842	6.31
59)	T	m/p-Xylene			1.488	1.550	1.580	1.330	1.380	1.466	7.35
60)	T	o-Xylene			1.572	1.550	1.577	1.317	1.351	1.473	8.68
61)	T	Styrene			0.659	0.719	0.738	0.658	0.690	0.693	5.18
62)		Isopropylbenzene			2.299	2.339	2.399	1.969	2.026	2.207	8.84
63)	T	1,1,2,2-Tetrac...	0.999	0.975	1.026	1.041	1.031	0.848	0.872	0.970	8.13
64)		n-propylbenzene			0.596	0.607	0.632	0.524	0.535	0.579	8.11
65)		tert-Butylbenzene			2.080	2.251	2.222	1.733	1.753	2.008	12.47
66)	T	Benzyl Chloride			0.141	0.159	0.163	0.153	0.150	0.153	5.40
67)		sec-Butylbenzene			2.973	3.229	3.182	2.482	2.494	2.872	12.65
68)	S	1-Bromo-4-Fluo...	0.773	0.760	0.768	0.777	0.765	0.764	0.779	0.769	0.92
69)		p-Isopropyltol...			2.240	2.533	2.575	2.021	2.056	2.285	11.38
70)		n-Butylbenzene			2.332	2.567	2.572	2.070	2.120	2.332	10.20
71)		2-Chlorotoluene			1.758	1.829	1.853	1.514	1.551	1.701	9.30
72)	T	4-Ethyltoluene			1.775	1.944	1.985	1.621	1.670	1.799	8.99
73)	T	1,3,5-Trimethy...			1.592	1.732	1.696	1.381	1.400	1.560	10.47
74)	T	1,2,4-Trimethy...			1.855	1.982	1.990	1.471	1.488	1.757	14.76
75)	T	1,3-Dichlorobe...			1.112	1.110	1.083	0.869	0.882	1.011	12.30
76)	T	1,4-Dichlorobe...			1.120	1.061	1.092	0.861	0.886	1.004	12.07
77)	T	1,2-Dichlorobe...			1.059	1.097	1.063	0.836	0.852	0.981	12.88
78)	T	Hexachloro-1,3...			0.840	0.832	0.844	0.637	0.666	0.764	13.53
79)	T	Naphthalene		0.841	0.978	1.237	1.352	1.371	1.450	1.205	20.15
80)	T	Naphthalene,2-...			0.090	0.142	0.240	0.562	0.615	0.330	73.74
81)	T	1,2,4-Trichlor...			0.589	0.687	0.765	0.644	0.673	0.671	9.58

(#) = Out of Range

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
Data File : VL042041.D
Acq On : 25 Feb 2025 08:56
Operator : SY/MD
Sample : VSTDICCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 25 10:10:59 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Tue Feb 18 00:13:37 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations APPROVED
Reviewed By :Mahesh Dadoda 03/06/2025
Supervised By :Semsettin Yesilyurt 03/06/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.800	49	161135	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.978	114	422655	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.901	117	374249	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.393	95	285943	9.263	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 92.600%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.502	85	152005	5.480	ppbv	99
3) Chlorodifluoromethane	1.479	51	211185	6.887	ppbv	96
4) Chloromethane	1.538	50	55364	5.136	ppbv	98
5) Vinyl Chloride	1.586	62	54228	4.207	ppbv	98
6) Bromomethane	1.674	94	25846	5.173	ppbv	90
7) Chloroethane	1.709	64	21717	5.169	ppbv	96
8) Dichlorotetrafluoroethane	1.560	85	125595	5.147	ppbv	94
9) Propene	1.489	41	84038	6.357	ppbv	97
10) Heptane	5.007	43	267860	7.296	ppbv	97
11) Trichlorofluoromethane	1.884	101	152112	5.449	ppbv	96
12) 1,1,2-Trichlorotrifluo...	2.146	101	112374	5.162	ppbv	93
13) Ethanol	1.729	45	3178	2.131	ppbv	85
14) Bromoethene	1.787	108	42461	5.223	ppbv	99
15) Acetone	1.842	43	115085	4.327	ppbv	95
16) 1,3-Butadiene	1.615	39	57707	4.574	ppbv	100
17) tert-Butyl alcohol	2.049	59	153073	4.651	ppbv	100
18) 1,1-Dichloroethene	2.043	96	51534	4.954	ppbv	95
19) Isopropyl Alcohol	1.894	45	67445	4.522	ppbv	98
20) Methylene Chloride	2.069	84	41998	4.195	ppbv	94
21) Allyl Chloride	2.104	41	86723	4.504	ppbv	99
22) trans-1,2-Dichloroethene	2.350	96	57617	5.104	ppbv	96
23) Vinyl Acetate	2.473	43	83866	5.823	ppbv	98
24) 1,1-Dichloroethane	2.418	63	107817	4.704	ppbv	100
25) Ethyl Acetate	2.852	43	511505	7.007	ppbv	99
26) Hexane	2.839	57	206577	7.052	ppbv	98
27) Carbon Disulfide	2.159	76	137978	5.008	ppbv	97
28) Methyl tert-Butyl Ether	2.450	73	84091	4.696	ppbv	98
29) Chloroform	2.862	83	277411	6.538	ppbv	96
30) Cyclohexane	3.875	84	173351	7.295	ppbv	98
31) cis-1,2-Dichloroethene	2.732	61	199354	6.886	ppbv	98
32) 1,1,1-Trichloroethane	3.383	97	285335	6.064	ppbv	98
34) 2-Butanone	2.570	43	292449	8.043	ppbv	100
35) Carbon Tetrachloride	3.781	117	276677	6.741	ppbv	97
36) Benzene	3.674	78	409501	7.999	ppbv	98
37) 1,2-Dichloroethane	3.234	62	219829	7.543	ppbv	100
38) Trichloroethene	4.570	130	159933	7.689	ppbv	93
39) 1,2-Dichloropropane	4.337	63	151036	8.047	ppbv	99
40) 1,4-Dioxane	4.609	88	69399	7.105	ppbv #	76
41) Tetrahydrofuran	3.072	42	176830	8.509	ppbv	95
42) Bromodichloromethane	4.512	83	312250	7.908	ppbv	97
43) Methyl Methacrylate	4.907	69	165494	7.091	ppbv	97
44) 2,2,4-Trimethylpentane	4.661	57	705920	8.122	ppbv	97
45) t-1,3-Dichloropropene	6.444	75	166207	7.544	ppbv	91

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
Data File : VL042041.D
Acq On : 25 Feb 2025 08:56
Operator : SY/MD
Sample : VSTDICCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 25 10:10:59 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Tue Feb 18 00:13:37 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations APPROVED
Reviewed By :Mahesh Dadoda 03/06/2025
Supervised By :Semsettin Yesilyurt 03/06/2025

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46)	cis-1,3-Dichloropropene	5.629	75	218294	7.809	ppbv		99
47)	1,1,2-Trichloroethane	6.610	97	152556	7.723	ppbv		97
48)	Dibromochloromethane	7.412	129	251213	7.593	ppbv		99
49)	Bromoform	9.503	173	222057	8.183	ppbv		98
50)	4-Methyl-2-Pentanone	5.787	43	428434	7.666	ppbv		100
51)	2-Hexanone	7.464	43	352331	7.709	ppbv	#	96
52)	Tetrachloroethene	8.244	164	138263	7.743	ppbv		94
53)	Toluene	6.959	91	460041	7.541	ppbv		97
54)	1,2-Dibromoethane	7.678	107	211395	7.772	ppbv		98
56)	1,1,1,2-Tetrachloroethane	8.943	131	188811	7.049	ppbv		97
57)	Chlorobenzene	8.940	112	340525	7.735	ppbv		97
58)	Ethyl Benzene	9.374	91	633939	7.739	ppbv		98
59)	m/p-Xylene	9.552	91	995259m	15.427	ppbv		
60)	o-Xylene	9.982	91	493069	7.557	ppbv		97
61)	Styrene	9.888	104	246161	7.912	ppbv		98
62)	Isopropylbenzene	10.555	105	736884	7.522	ppbv		98
63)	1,1,2,2-Tetrachloroethane	9.979	83	317313	7.538	ppbv		100
64)	n-propylbenzene	11.005	120	196044	8.145	ppbv		90
65)	tert-Butylbenzene	11.545	119	648698	7.596	ppbv		97
66)	Benzyl Chloride	11.630	91	57345	6.699	ppbv	#	97
67)	sec-Butylbenzene	11.782	105	928863	7.744	ppbv		99
69)	p-Isopropyltoluene	11.940	119	756264	7.702	ppbv		98
70)	n-Butylbenzene	12.296	91	774646	8.009	ppbv		99
71)	2-Chlorotoluene	10.918	91	566619	7.681	ppbv		97
72)	4-Ethyltoluene	11.141	105	606538	7.934	ppbv		98
73)	1,3,5-Trimethylbenzene	11.219	105	516875	7.838	ppbv		100
74)	1,2,4-Trimethylbenzene	11.552	105	550412	7.777	ppbv		98
75)	1,3-Dichlorobenzene	11.623	146	325160	8.535	ppbv		97
76)	1,4-Dichlorobenzene	11.685	146	322404	8.678	ppbv		97
77)	1,2-Dichlorobenzene	11.963	146	312942	8.593	ppbv		96
78)	Hexachloro-1,3-Butadiene	13.895	225	238217	7.907	ppbv		100
79)	Naphthalene	13.526	128	513192	7.372	ppbv		99
80)	Naphthalene,2-methyl-	14.471	142	210405	6.676	ppbv		95
81)	1,2,4-Trichlorobenzene	13.455	180	241031	8.517	ppbv		99

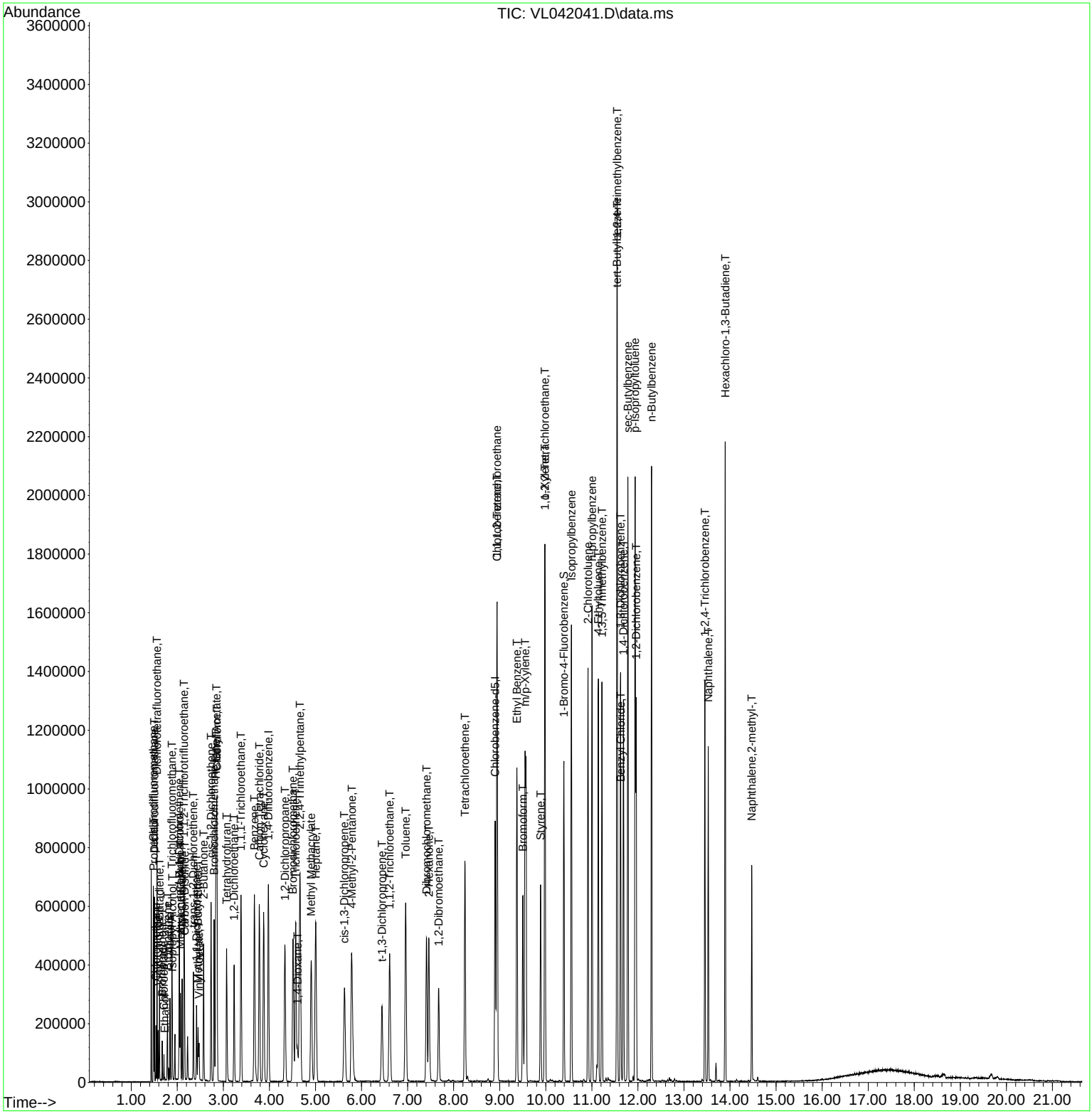
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
Data File : VL042041.D
Acq On : 25 Feb 2025 08:56
Operator : SY/MD
Sample : VSTDICCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 25 10:10:59 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Tue Feb 18 00:13:37 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations APPROVED
Reviewed By :Mahesh Dadoda 03/06/2025
Supervised By :Semsettin Yesilyurt 03/06/2025



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
Data File : VL042042.D
Acq On : 25 Feb 2025 09:29
Operator : SY/MD
Sample : VSTDICC002
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 25 10:12:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Tue Feb 18 00:13:37 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.800	49	160999	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.981	114	427051	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.901	117	377910	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.393	95	289049	9.273	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 92.700%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.505	85	35122	1.267	ppbv		95
3) Chlorodifluoromethane	1.483	51	49423	1.613	ppbv		94
4) Chloromethane	1.538	50	12833	1.192	ppbv	#	87
5) Vinyl Chloride	1.586	62	11611	0.902	ppbv		97
6) Bromomethane	1.674	94	5996	1.201	ppbv		97
7) Chloroethane	1.712	64	5014	1.195	ppbv		90
8) Dichlorotetrafluoroethane	1.560	85	29028	1.191	ppbv		99
9) Propene	1.489	41	20484	1.551	ppbv		95
10) Heptane	5.004	43	63098	1.720	ppbv		94
11) Trichlorofluoromethane	1.884	101	36041	1.292	ppbv		98
12) 1,1,2-Trichlorotrifluo...	2.149	101	27846	1.280	ppbv		90
13) Ethanol	1.729	45	1291	0.866	ppbv		91
14) Bromoethene	1.790	108	9642	1.187	ppbv		93
15) Acetone	1.842	43	30058	1.131	ppbv		100
16) 1,3-Butadiene	1.615	39	13471	1.069	ppbv		100
17) tert-Butyl alcohol	2.052	59	38684	1.176	ppbv		96
18) 1,1-Dichloroethene	2.043	96	12417	1.195	ppbv		93
19) Isopropyl Alcohol	1.894	45	17927	1.203	ppbv		96
20) Methylene Chloride	2.072	84	10587	1.058	ppbv	#	80
21) Allyl Chloride	2.107	41	20564	1.069	ppbv		96
22) trans-1,2-Dichloroethene	2.350	96	14475	1.283	ppbv		81
23) Vinyl Acetate	2.473	43	22394	1.556	ppbv	#	94
24) 1,1-Dichloroethane	2.421	63	27804	1.214	ppbv		99
25) Ethyl Acetate	2.852	43	121593	1.667	ppbv		100
26) Hexane	2.839	57	48912	1.671	ppbv		98
27) Carbon Disulfide	2.159	76	33222	1.207	ppbv	#	57
28) Methyl tert-Butyl Ether	2.457	73	26968	1.507	ppbv		100
29) Chloroform	2.865	83	63463	1.497	ppbv		92
30) Cyclohexane	3.878	84	40420	1.702	ppbv		98
31) cis-1,2-Dichloroethene	2.732	61	46690	1.614	ppbv		96
32) 1,1,1-Trichloroethane	3.386	97	62586	1.331	ppbv		97
34) 2-Butanone	2.573	43	69370	1.888	ppbv		96
35) Carbon Tetrachloride	3.784	117	61895	1.493	ppbv		97
36) Benzene	3.677	78	94277	1.822	ppbv		98
37) 1,2-Dichloroethane	3.237	62	51050	1.734	ppbv		99
38) Trichloroethene	4.574	130	38184	1.817	ppbv		99
39) 1,2-Dichloropropane	4.341	63	35396	1.866	ppbv		95
40) 1,4-Dioxane	4.622	88	15442	1.565	ppbv	#	28
41) Tetrahydrofuran	3.075	42	40365	1.922	ppbv		96
42) Bromodichloromethane	4.512	83	69154	1.733	ppbv		94
43) Methyl Methacrylate	4.910	69	36393	1.543	ppbv		94
44) 2,2,4-Trimethylpentane	4.664	57	166945	1.901	ppbv		97
45) t-1,3-Dichloropropene	6.448	75	35707	1.604	ppbv		93

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
Data File : VL042042.D
Acq On : 25 Feb 2025 09:29
Operator : SY/MD
Sample : VSTDICC002
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 25 10:12:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Tue Feb 18 00:13:37 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) cis-1,3-Dichloropropene	5.632	75	46835	1.658	ppbv		93
47) 1,1,2-Trichloroethane	6.613	97	36368	1.822	ppbv		93
48) Dibromochloromethane	7.412	129	56931	1.703	ppbv		99
49) Bromoform	9.503	173	50259	1.833	ppbv		99
50) 4-Methyl-2-Pentanone	5.797	43	83246	1.474	ppbv		99
51) 2-Hexanone	7.470	43	51926	1.124	ppbv	#	94
52) Tetrachloroethene	8.244	164	32874	1.822	ppbv		95
53) Toluene	6.962	91	109646	1.779	ppbv		98
54) 1,2-Dibromoethane	7.678	107	50010	1.820	ppbv		97
56) 1,1,1,2-Tetrachloroethane	8.946	131	44947	1.662	ppbv		98
57) Chlorobenzene	8.943	112	84749	1.906	ppbv		95
58) Ethyl Benzene	9.374	91	149185	1.804	ppbv		99
59) m/p-Xylene	9.568	91	238800m	3.666	ppbv		
60) o-Xylene	9.982	91	119170	1.809	ppbv		97
61) Styrene	9.888	104	55798	1.776	ppbv		96
62) Isopropylbenzene	10.555	105	181311	1.833	ppbv		97
63) 1,1,2,2-Tetrachloroethane	9.982	83	77911	1.833	ppbv		96
64) n-propylbenzene	11.005	120	47764	1.965	ppbv		92
65) tert-Butylbenzene	11.545	119	167973	1.948	ppbv		96
66) Benzyl Chloride	11.630	91	12304	1.423	ppbv	#	98
67) sec-Butylbenzene	11.782	105	240504	1.986	ppbv		99
69) p-Isopropyltoluene	11.940	119	194660	1.963	ppbv		99
70) n-Butylbenzene	12.296	91	194416	1.991	ppbv		99
71) 2-Chlorotoluene	10.917	91	140068	1.880	ppbv		98
72) 4-Ethyltoluene	11.141	105	150038	1.944	ppbv		98
73) 1,3,5-Trimethylbenzene	11.218	105	128202	1.925	ppbv		99
74) 1,2,4-Trimethylbenzene	11.549	105	150380	2.104	ppbv	#	88
75) 1,3-Dichlorobenzene	11.623	146	81884	2.129	ppbv		98
76) 1,4-Dichlorobenzene	11.688	146	82560	2.201	ppbv		97
77) 1,2-Dichlorobenzene	11.963	146	80367	2.186	ppbv		96
78) Hexachloro-1,3-Butadiene	13.895	225	63815	2.098	ppbv		99
79) Naphthalene	13.526	128	102197	1.454	ppbv		98
80) Naphthalene,2-methyl-	14.475	142	18104	0.569	ppbv		94
81) 1,2,4-Trichlorobenzene	13.455	180	57798	2.023	ppbv		98

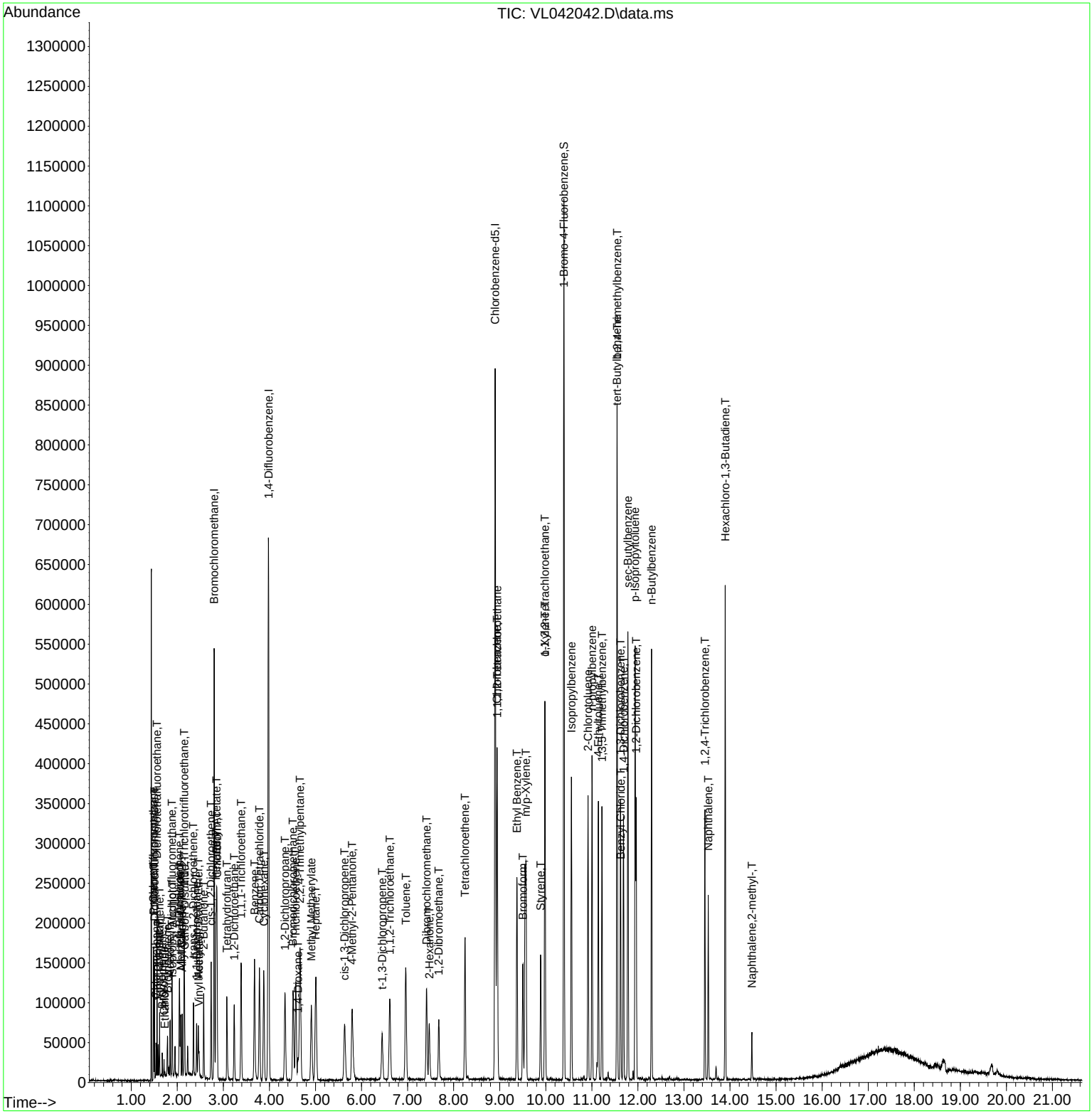
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
Data File : VL042042.D
Acq On : 25 Feb 2025 09:29
Operator : SY/MD
Sample : VSTDICC002
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 25 10:12:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Tue Feb 18 00:13:37 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
Data File : VL042043.D
Acq On : 25 Feb 2025 10:00
Operator : SY/MD
Sample : VSTDICC001
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 25 10:27:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Tue Feb 25 10:15:00 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.800	49	161096	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.978	114	423363	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.898	117	369917	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.390	95	287450	9.420	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 94.200%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.502	85	17457	0.629	ppbv		95
3) Chlorodifluoromethane	1.479	51	25229	0.823	ppbv		98
4) Chloromethane	1.538	50	6417	0.595	ppbv	#	75
5) Vinyl Chloride	1.586	62	5567	0.432	ppbv		96
6) Bromomethane	1.674	94	2966	0.594	ppbv		100
7) Chloroethane	1.709	64	2542	0.605	ppbv		96
8) Dichlorotetrafluoroethane	1.560	85	14655	0.601	ppbv		90
9) Propene	1.486	41	10156	0.768	ppbv		96
10) Heptane	4.998	43	31354m	0.854	ppbv		
11) Trichlorofluoromethane	1.884	101	18079	0.648	ppbv		98
12) 1,1,2-Trichlorotrifluo...	2.149	101	14527	0.667	ppbv		92
13) Ethanol	1.725	45	915m	0.614	ppbv		
14) Bromoethene	1.787	108	4905	0.604	ppbv	#	95
15) Acetone	1.845	43	15468	0.582	ppbv		98
16) 1,3-Butadiene	1.615	39	7010	0.556	ppbv		99
17) tert-Butyl alcohol	2.052	59	19092	0.580	ppbv		97
18) 1,1-Dichloroethene	2.043	96	7042	0.677	ppbv		94
19) Isopropyl Alcohol	1.894	45	9191	0.616	ppbv	#	32
20) Methylene Chloride	2.068	84	6026	0.602	ppbv		95
21) Allyl Chloride	2.104	41	11550	0.600	ppbv		95
22) trans-1,2-Dichloroethene	2.347	96	8145m	0.722	ppbv		
23) Vinyl Acetate	2.473	43	9893	0.687	ppbv	#	91
24) 1,1-Dichloroethane	2.418	63	13783	0.601	ppbv		98
25) Ethyl Acetate	2.852	43	59183	0.811	ppbv		99
26) Hexane	2.836	57	23549	0.804	ppbv		96
27) Carbon Disulfide	2.159	76	15659	0.568	ppbv	#	46
28) Methyl tert-Butyl Ether	2.454	73	13593	0.759	ppbv		95
29) Chloroform	2.861	83	32925	0.776	ppbv		94
30) Cyclohexane	3.874	84	19953	0.840	ppbv		97
31) cis-1,2-Dichloroethene	2.732	61	22565	0.780	ppbv		97
32) 1,1,1-Trichloroethane	3.386	97	30870	0.656	ppbv		96
34) 2-Butanone	2.570	43	33820	0.929	ppbv		99
35) Carbon Tetrachloride	3.777	117	30618	0.745	ppbv		90
36) Benzene	3.674	78	45892	0.895	ppbv		96
37) 1,2-Dichloroethane	3.234	62	25585	0.876	ppbv		99
38) Trichloroethene	4.570	130	18921	0.908	ppbv		91
39) 1,2-Dichloropropane	4.334	63	17557	0.934	ppbv		94
40) 1,4-Dioxane	4.619	88	8319m	0.850	ppbv		
41) Tetrahydrofuran	3.075	42	20823	1.000	ppbv		96
42) Bromodichloromethane	4.515	83	33481	0.847	ppbv		97
43) Methyl Methacrylate	4.907	69	17679	0.756	ppbv		99
44) 2,2,4-Trimethylpentane	4.661	57	81921	0.941	ppbv		98
45) t-1,3-Dichloropropene	6.444	75	16578m	0.751	ppbv		

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
Data File : VL042043.D
Acq On : 25 Feb 2025 10:00
Operator : SY/MD
Sample : VSTDICC001
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 25 10:27:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Tue Feb 25 10:15:00 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) cis-1,3-Dichloropropene	5.632	75	22127m	0.790	ppbv		
47) 1,1,2-Trichloroethane	6.616	97	18160m	0.918	ppbv		
48) Dibromochloromethane	7.412	129	28239	0.852	ppbv		97
49) Bromoform	9.500	173	23310	0.858	ppbv		94
50) 4-Methyl-2-Pentanone	5.791	43	41249m	0.737	ppbv		
51) 2-Hexanone	7.470	43	24117	0.527	ppbv	#	97
52) Tetrachloroethene	8.241	164	16217	0.907	ppbv		89
53) Toluene	6.959	91	51231	0.838	ppbv		99
54) 1,2-Dibromoethane	7.674	107	23427	0.860	ppbv		94
56) 1,1,1,2-Tetrachloroethane	8.943	131	22060	0.833	ppbv		97
57) Chlorobenzene	8.937	112	41173	0.946	ppbv		96
58) Ethyl Benzene	9.370	91	70507	0.871	ppbv		97
59) m/p-Xylene	9.568	91	114691m	1.799	ppbv		
60) o-Xylene	9.979	91	57322	0.889	ppbv		99
61) Styrene	9.885	104	26596	0.865	ppbv		98
62) Isopropylbenzene	10.555	105	86533	0.894	ppbv		100
63) 1,1,2,2-Tetrachloroethane	9.979	83	38520	0.926	ppbv		98
64) n-propylbenzene	11.002	120	22456	0.944	ppbv		94
65) tert-Butylbenzene	11.545	119	83284	0.987	ppbv		99
66) Benzyl Chloride	11.626	91	5880m	0.695	ppbv		
67) sec-Butylbenzene	11.782	105	119435	1.007	ppbv		99
69) p-Isopropyltoluene	11.940	119	93710	0.966	ppbv		99
70) n-Butylbenzene	12.293	91	94969	0.993	ppbv		98
71) 2-Chlorotoluene	10.914	91	67655	0.928	ppbv		98
72) 4-Ethyltoluene	11.137	105	71906	0.952	ppbv		99
73) 1,3,5-Trimethylbenzene	11.215	105	64087	0.983	ppbv		96
74) 1,2,4-Trimethylbenzene	11.549	105	73323	1.048	ppbv		100
75) 1,3-Dichlorobenzene	11.620	146	41063	1.091	ppbv		99
76) 1,4-Dichlorobenzene	11.685	146	39235	1.068	ppbv		99
77) 1,2-Dichlorobenzene	11.960	146	40574	1.127	ppbv		98
78) Hexachloro-1,3-Butadiene	13.895	225	30764	1.033	ppbv		99
79) Naphthalene	13.526	128	45743	0.665	ppbv		98
80) Naphthalene,2-methyl-	14.471	142	5244	0.168	ppbv		94
81) 1,2,4-Trichlorobenzene	13.452	180	25404	0.908	ppbv		95

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

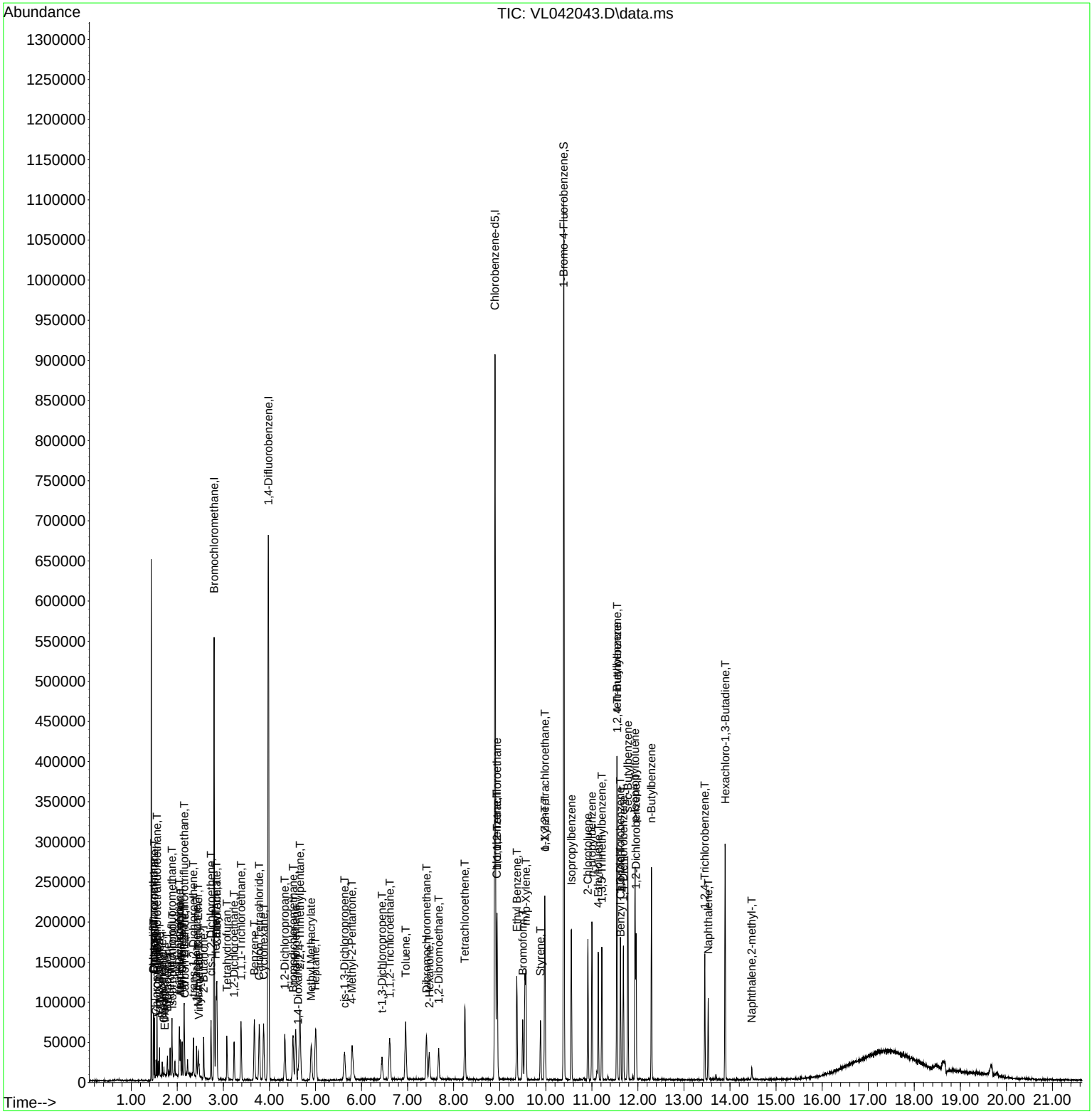
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
Data File : VL042043.D
Acq On : 25 Feb 2025 10:00
Operator : SY/MD
Sample : VSTDICC001
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 25 10:27:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Tue Feb 25 10:15:00 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
Data File : VL042044.D
Acq On : 25 Feb 2025 10:31
Operator : SY/MD
Sample : VSTDICC0.5
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 25 10:56:41 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Tue Feb 25 10:31:48 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.797	49	159644	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.975	114	421340	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.898	117	365954	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.390	95	281042	9.310	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 93.100%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.502	85	8852	0.322	ppbv		98
3) Chlorodifluoromethane	1.479	51	11921	0.392	ppbv		94
4) Chloromethane	1.537	50	3497	0.327	ppbv	#	88
5) Vinyl Chloride	1.583	62	3005	0.235	ppbv		98
6) Bromomethane	1.673	94	1359	0.275	ppbv		92
7) Chloroethane	1.709	64	1205	0.290	ppbv		89
8) Dichlorotetrafluoroethane	1.557	85	7123	0.295	ppbv		99
9) Propene	1.486	41	4904	0.374	ppbv		94
10) Heptane	5.004	43	15731	0.432	ppbv		98
11) Trichlorofluoromethane	1.884	101	8429	0.305	ppbv		92
12) 1,1,2-Trichlorotrifluo...	2.146	101	7336	0.340	ppbv		98
13) Ethanol	1.725	45	426	0.288	ppbv		75
14) Bromoethene	1.787	108	2598	0.323	ppbv	#	89
15) Acetone	1.842	43	8655	0.328	ppbv		96
16) 1,3-Butadiene	1.615	39	3803	0.304	ppbv		97
17) tert-Butyl alcohol	2.049	59	9447	0.290	ppbv	#	90
18) 1,1-Dichloroethene	2.039	96	3173	0.308	ppbv		94
19) Isopropyl Alcohol	1.894	45	4481	0.303	ppbv	#	32
20) Methylene Chloride	2.068	84	3423	0.345	ppbv		97
21) Allyl Chloride	2.104	41	5640	0.296	ppbv		100
22) trans-1,2-Dichloroethene	2.347	96	3838m	0.343	ppbv		
23) Vinyl Acetate	2.473	43	5499	0.385	ppbv	#	86
24) 1,1-Dichloroethane	2.418	63	7396	0.326	ppbv	#	88
25) Ethyl Acetate	2.848	43	30593	0.423	ppbv		98
26) Hexane	2.832	57	12739	0.439	ppbv		98
27) Carbon Disulfide	2.159	76	8316	0.305	ppbv	#	15
28) Methyl tert-Butyl Ether	2.450	73	5185	0.292	ppbv	#	80
29) Chloroform	2.858	83	17278	0.411	ppbv		93
30) Cyclohexane	3.874	84	9209	0.391	ppbv		88
31) cis-1,2-Dichloroethene	2.729	61	11344	0.395	ppbv		97
32) 1,1,1-Trichloroethane	3.382	97	15027	0.322	ppbv		93
34) 2-Butanone	2.570	43	17555	0.484	ppbv		99
35) Carbon Tetrachloride	3.780	117	14223	0.348	ppbv		90
36) Benzene	3.670	78	22728	0.445	ppbv		95
37) 1,2-Dichloroethane	3.230	62	13141	0.452	ppbv		100
38) Trichloroethene	4.570	130	9115	0.440	ppbv	#	87
39) 1,2-Dichloropropane	4.331	63	8877m	0.474	ppbv		
40) 1,4-Dioxane	4.622	88	4046m	0.416	ppbv		
41) Tetrahydrofuran	3.078	42	9880	0.477	ppbv		98
42) Bromodichloromethane	4.505	83	16973	0.431	ppbv	#	96
43) Methyl Methacrylate	4.904	69	8428	0.362	ppbv		93
44) 2,2,4-Trimethylpentane	4.661	57	40623	0.469	ppbv		98
45) t-1,3-Dichloropropene	6.441	75	8720m	0.397	ppbv		

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
Data File : VL042044.D
Acq On : 25 Feb 2025 10:31
Operator : SY/MD
Sample : VSTDICC0.5
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 25 10:56:41 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Tue Feb 25 10:31:48 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) cis-1,3-Dichloropropene	5.629	75	10834m	0.389	ppbv		
47) 1,1,2-Trichloroethane	6.609	97	8982m	0.456	ppbv		
48) Dibromochloromethane	7.406	129	13014m	0.395	ppbv		
49) Bromoform	9.496	173	11640	0.430	ppbv		98
50) 4-Methyl-2-Pentanone	5.794	43	20992m	0.377	ppbv		
51) 2-Hexanone	7.470	43	12149m	0.267	ppbv		
52) Tetrachloroethene	8.241	164	8012	0.450	ppbv		95
53) Toluene	6.956	91	24224	0.398	ppbv		96
54) 1,2-Dibromoethane	7.674	107	11718m	0.432	ppbv		
56) 1,1,1,2-Tetrachloroethane	8.940	131	11100	0.424	ppbv	#	61
57) Chlorobenzene	8.936	112	20167	0.468	ppbv		97
58) Ethyl Benzene	9.370	91	34506	0.431	ppbv		90
59) m/p-Xylene	9.568	91	54449m	0.863	ppbv		
60) o-Xylene	9.979	91	28757	0.451	ppbv		95
61) Styrene	9.885	104	12051	0.396	ppbv		99
62) Isopropylbenzene	10.552	105	42074	0.439	ppbv		100
63) 1,1,2,2-Tetrachloroethane	9.975	83	18774	0.456	ppbv		96
64) n-propylbenzene	11.001	120	10900	0.463	ppbv		100
65) tert-Butylbenzene	11.542	119	38066	0.456	ppbv		98
66) Benzyl Chloride	11.626	91	2589	0.309	ppbv	#	96
67) sec-Butylbenzene	11.778	105	54394	0.464	ppbv		97
69) p-Isopropyltoluene	11.937	119	40978	0.427	ppbv		95
70) n-Butylbenzene	12.293	91	42673	0.451	ppbv		99
71) 2-Chlorotoluene	10.914	91	32161	0.446	ppbv		99
72) 4-Ethyltoluene	11.137	105	32477	0.434	ppbv	#	95
73) 1,3,5-Trimethylbenzene	11.215	105	29130	0.452	ppbv		91
74) 1,2,4-Trimethylbenzene	11.548	105	33950	0.491	ppbv		97
75) 1,3-Dichlorobenzene	11.616	146	20339	0.546	ppbv		96
76) 1,4-Dichlorobenzene	11.684	146	20492	0.564	ppbv		93
77) 1,2-Dichlorobenzene	11.959	146	19373	0.544	ppbv		96
78) Hexachloro-1,3-Butadiene	13.892	225	15367	0.522	ppbv		99
79) Naphthalene	13.523	128	17897	0.263	ppbv	#	95
80) Naphthalene,2-methyl-	14.478	142	1646	0.053	ppbv	#	81
81) 1,2,4-Trichlorobenzene	13.452	180	10771	0.389	ppbv		94

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

Quantitation Report (QT Reviewed)

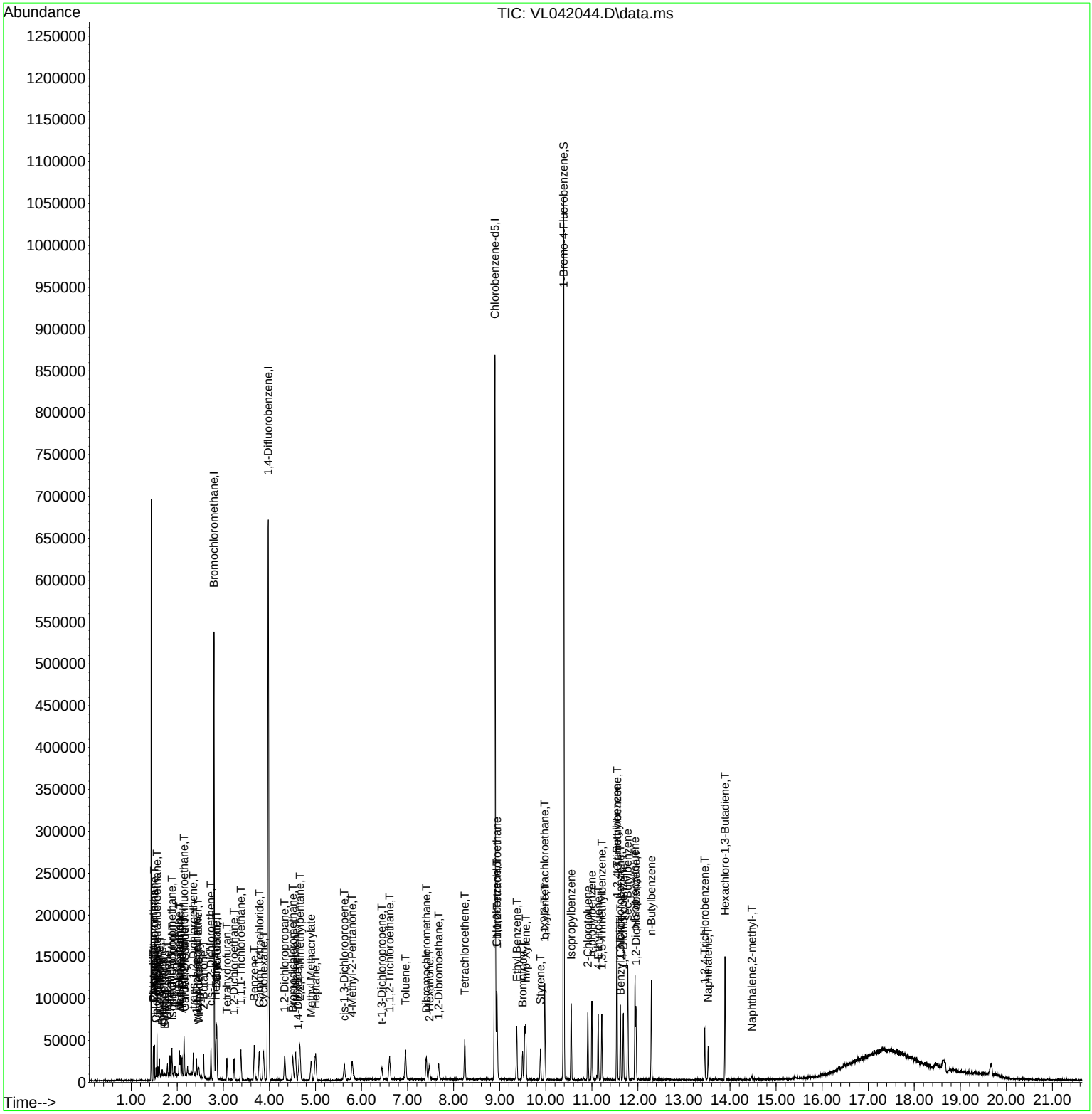
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
Data File : VL042044.D
Acq On : 25 Feb 2025 10:31
Operator : SY/MD
Sample : VSTDICC0.5
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 25 10:56:41 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Tue Feb 25 10:31:48 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
Data File : VL042045.D
Acq On : 25 Feb 2025 11:03
Operator : SY/MD
Sample : VSTDICC0.1
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 25 12:33:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Tue Feb 25 10:31:48 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.803	49	161406	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.981	114	414875	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.904	117	363831	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.393	95	276484	9.213	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 92.100%			
Target Compounds						Qvalue
5) Vinyl Chloride	1.586	62	543	0.042	ppbv	# 88
32) 1,1,1-Trichloroethane	3.386	97	3026	0.064	ppbv	# 86
35) Carbon Tetrachloride	3.787	117	2923m	0.073	ppbv	
38) Trichloroethene	4.577	130	1915m	0.094	ppbv	
52) Tetrachloroethene	8.254	164	1552m	0.089	ppbv	
54) 1,2-Dibromoethane	7.678	107	2335m	0.087	ppbv	
63) 1,1,2,2-Tetrachloroethane	9.982	83	3549m	0.087	ppbv	
79) Naphthalene	13.529	128	3058	0.045	ppbv	# 91

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

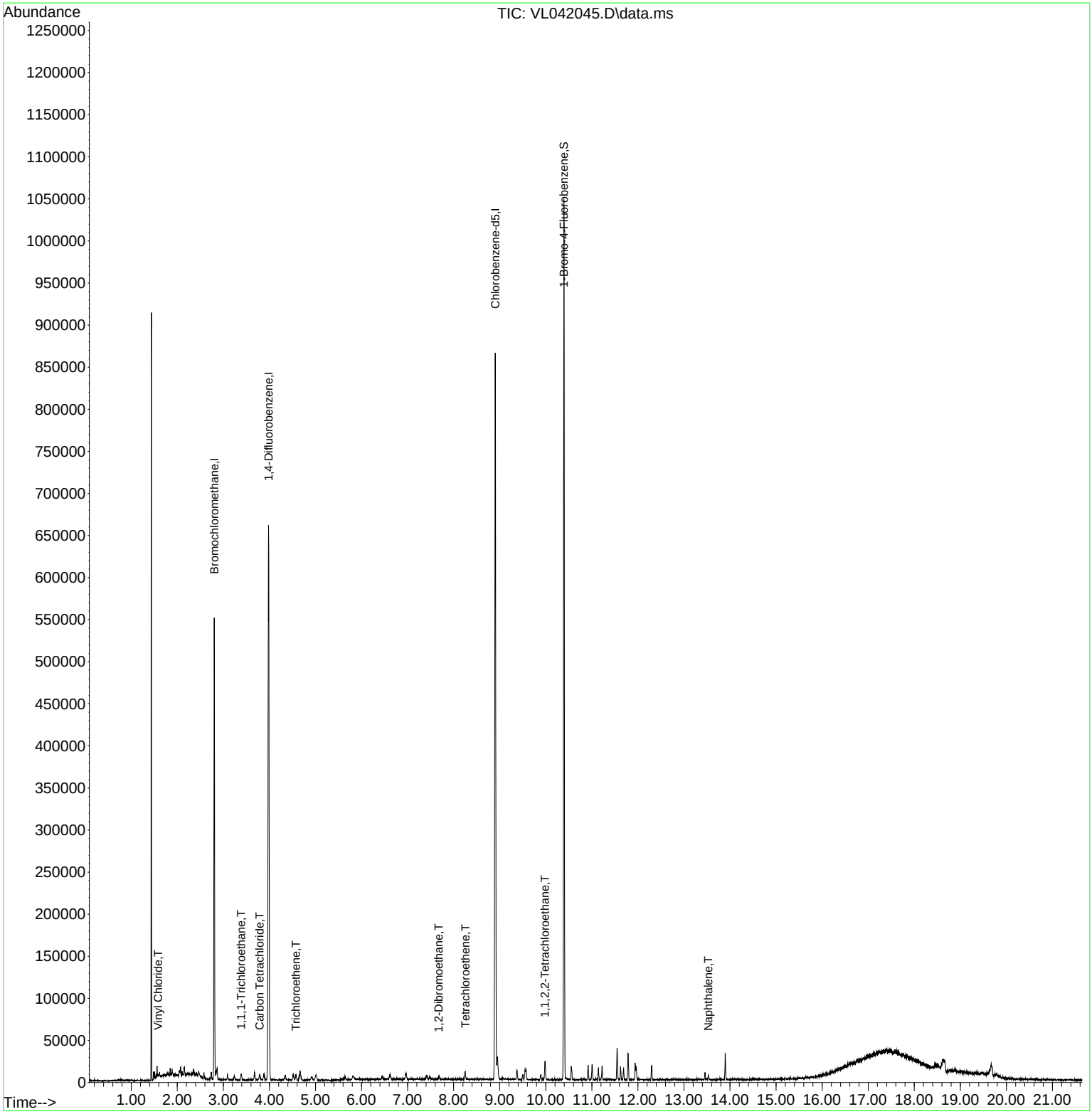
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
Data File : VL042045.D
Acq On : 25 Feb 2025 11:03
Operator : SY/MD
Sample : VSTDICC0.1
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 25 12:33:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Tue Feb 25 10:31:48 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
Data File : VL042046.D
Acq On : 25 Feb 2025 11:34
Operator : SY/MD
Sample : VSTDICC0.03
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 25 12:34:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Tue Feb 25 10:31:48 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.797	49	160156	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.975	114	410900	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.898	117	353154	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.390	95	272906	9.368	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 93.700%			
Target Compounds						Qvalue
5) Vinyl Chloride	1.586	62	215	0.017	ppbv	89
32) 1,1,1-Trichloroethane	3.379	97	923m	0.020	ppbv	
35) Carbon Tetrachloride	3.784	117	818m	0.021	ppbv	
38) Trichloroethene	4.577	130	551m	0.027	ppbv	
52) Tetrachloroethene	8.237	164	397m	0.023	ppbv	
63) 1,1,2,2-Tetrachloroethane	9.979	83	1058m	0.027	ppbv	

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

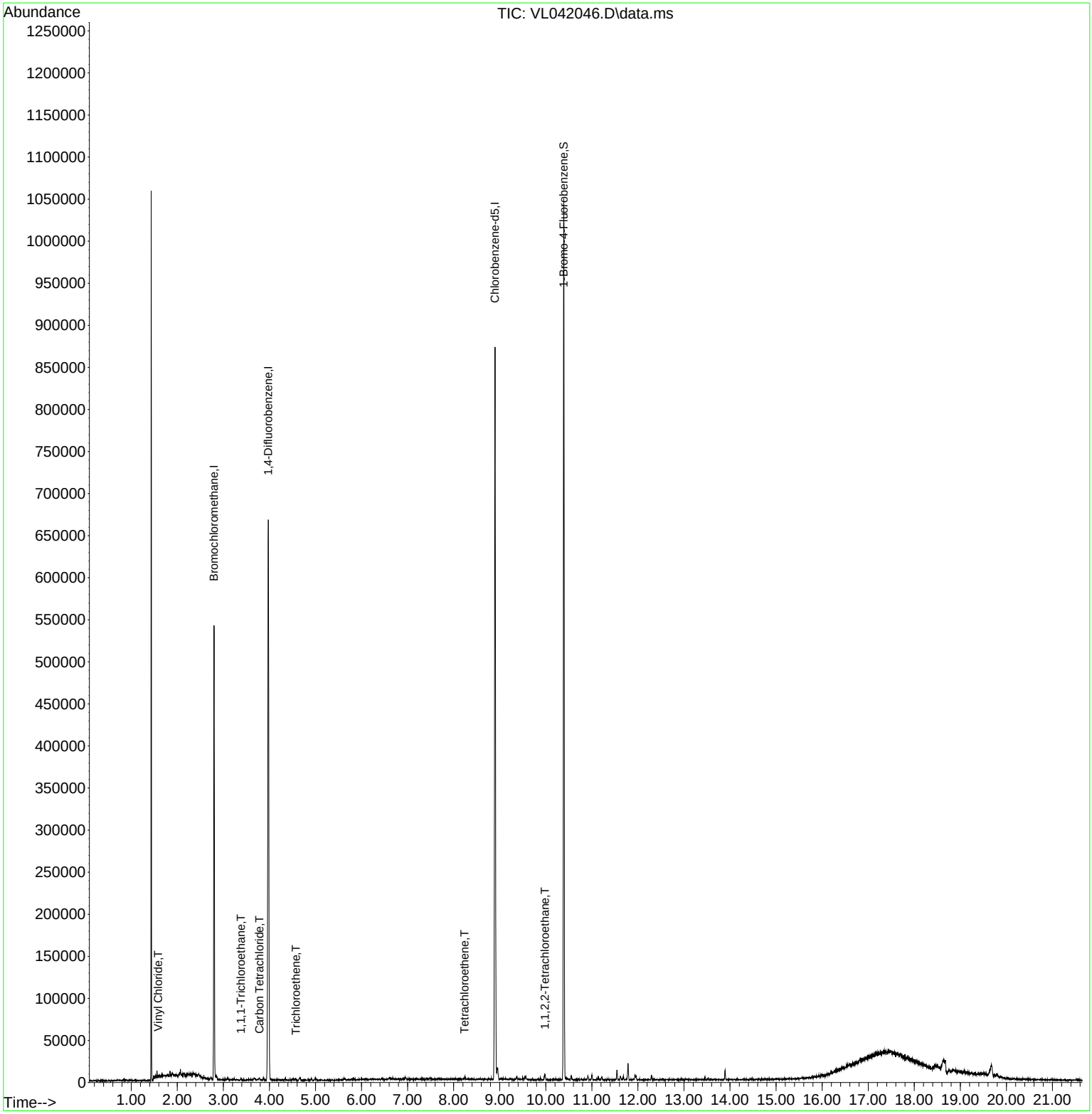
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
Data File : VL042046.D
Acq On : 25 Feb 2025 11:34
Operator : SY/MD
Sample : VSTDICC0.03
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 25 12:34:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Tue Feb 25 10:31:48 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
Data File : VL042047.D
Acq On : 25 Feb 2025 12:07
Operator : SY/MD
Sample : VSTDICC015
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 25 12:35:10 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Tue Feb 25 10:31:48 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.800	49	159015	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.978	114	401919	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.904	117	351637	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.393	95	273846	9.441	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 94.400%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.502	85	231978	8.474	ppbv	99
3) Chlorodifluoromethane	1.479	51	324821	10.733	ppbv	100
4) Chloromethane	1.537	50	82097	7.718	ppbv	98
5) Vinyl Chloride	1.586	62	81863	6.436	ppbv	99
6) Bromomethane	1.673	94	39366	7.983	ppbv	97
7) Chloroethane	1.709	64	33329	8.039	ppbv	92
8) Dichlorotetrafluoroethane	1.560	85	188716	7.837	ppbv	98
9) Propene	1.489	41	133086	10.201	ppbv	97
10) Heptane	5.004	43	400418	11.052	ppbv	99
11) Trichlorofluoromethane	1.884	101	230938	8.383	ppbv	95
12) 1,1,2-Trichlorotrifluo...	2.149	101	184306	8.579	ppbv	99
13) Ethanol	1.725	45	4281	2.909	ppbv	100
14) Bromoethene	1.787	108	65496	8.164	ppbv	99
15) Acetone	1.842	43	172538	6.574	ppbv	98
16) 1,3-Butadiene	1.615	39	87490	7.027	ppbv	100
17) tert-Butyl alcohol	2.049	59	239569	7.377	ppbv	98
18) 1,1-Dichloroethene	2.042	96	80535	7.845	ppbv	98
19) Isopropyl Alcohol	1.894	45	102365	6.955	ppbv	99
20) Methylene Chloride	2.068	84	66282	6.709	ppbv	98
21) Allyl Chloride	2.104	41	140726	7.406	ppbv	99
22) trans-1,2-Dichloroethene	2.350	96	94321	8.466	ppbv	95
23) Vinyl Acetate	2.473	43	139727	9.831	ppbv	99
24) 1,1-Dichloroethane	2.418	63	180882	7.997	ppbv	99
25) Ethyl Acetate	2.848	43	767353	10.652	ppbv	99
26) Hexane	2.839	57	306864	10.615	ppbv	99
27) Carbon Disulfide	2.159	76	224609	8.261	ppbv	98
28) Methyl tert-Butyl Ether	2.453	73	168058	9.510	ppbv	98
29) Chloroform	2.861	83	409240	9.774	ppbv	100
30) Cyclohexane	3.874	84	256687	10.946	ppbv	98
31) cis-1,2-Dichloroethene	2.732	61	299324	10.476	ppbv	96
32) 1,1,1-Trichloroethane	3.386	97	417615	8.994	ppbv	98
34) 2-Butanone	2.570	43	457602	13.234	ppbv	98
35) Carbon Tetrachloride	3.780	117	410730	10.524	ppbv	96
36) Benzene	3.674	78	602107	12.367	ppbv	97
37) 1,2-Dichloroethane	3.233	62	335275	12.097	ppbv	99
38) Trichloroethene	4.573	130	228298	11.542	ppbv	98
39) 1,2-Dichloropropane	4.337	63	228418	12.797	ppbv	98
40) 1,4-Dioxane	4.609	88	104519	11.253	ppbv #	96
41) Tetrahydrofuran	3.068	42	271202	13.724	ppbv	100
42) Bromodichloromethane	4.512	83	461272	12.285	ppbv	96
43) Methyl Methacrylate	4.907	69	246468	11.105	ppbv	97
44) 2,2,4-Trimethylpentane	4.667	57	1054880	12.763	ppbv	99
45) t-1,3-Dichloropropene	6.444	75	249612	11.914	ppbv	95

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
Data File : VL042047.D
Acq On : 25 Feb 2025 12:07
Operator : SY/MD
Sample : VSTDICC015
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 25 12:35:10 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Tue Feb 25 10:31:48 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) cis-1,3-Dichloropropene	5.635	75	317266	11.935	ppbv		98
47) 1,1,2-Trichloroethane	6.609	97	226021	12.032	ppbv		95
48) Dibromochloromethane	7.412	129	369666	11.750	ppbv		99
49) Bromoform	9.503	173	317322	12.297	ppbv		99
50) 4-Methyl-2-Pentanone	5.787	43	650307	12.237	ppbv		99
51) 2-Hexanone	7.461	43	530165	12.198	ppbv	#	100
52) Tetrachloroethene	8.247	164	203233	11.968	ppbv		94
53) Toluene	6.959	91	673822	11.615	ppbv		99
54) 1,2-Dibromoethane	7.677	107	309982	11.985	ppbv		95
56) 1,1,1,2-Tetrachloroethane	8.946	131	276326	10.979	ppbv		99
57) Chlorobenzene	8.943	112	494606	11.957	ppbv		98
58) Ethyl Benzene	9.373	91	922265	11.984	ppbv		100
59) m/p-Xylene	9.571	91	1456036m	24.020	ppbv		
60) o-Xylene	9.982	91	712735	11.626	ppbv		99
61) Styrene	9.888	104	363855	12.446	ppbv		99
62) Isopropylbenzene	10.558	105	1068777	11.612	ppbv		99
63) 1,1,2,2-Tetrachloroethane	9.982	83	459839	11.626	ppbv		100
64) n-propylbenzene	11.005	120	282364	12.486	ppbv		99
65) tert-Butylbenzene	11.548	119	924810	11.526	ppbv		99
66) Benzyl Chloride	11.633	91	78975	9.819	ppbv		98
67) sec-Butylbenzene	11.785	105	1315730	11.674	ppbv		99
69) p-Isopropyltoluene	11.940	119	1084253	11.752	ppbv		99
70) n-Butylbenzene	12.296	91	1118373	12.306	ppbv		99
71) 2-Chlorotoluene	10.917	91	818204	11.804	ppbv		100
72) 4-Ethyltoluene	11.141	105	880883	12.264	ppbv		99
73) 1,3,5-Trimethylbenzene	11.218	105	738619	11.921	ppbv		98
74) 1,2,4-Trimethylbenzene	11.552	105	784701	11.801	ppbv		91
75) 1,3-Dichlorobenzene	11.623	146	465436	13.003	ppbv		98
76) 1,4-Dichlorobenzene	11.688	146	467249	13.386	ppbv		99
77) 1,2-Dichlorobenzene	11.963	146	449222	13.129	ppbv		98
78) Hexachloro-1,3-Butadiene	13.895	225	351085	12.403	ppbv		100
79) Naphthalene	13.526	128	764990	11.696	ppbv		99
80) Naphthalene,2-methyl-	14.471	142	324431	10.956	ppbv		99
81) 1,2,4-Trichlorobenzene	13.455	180	354990	13.351	ppbv		99

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

Quantitation Report (QT Reviewed)

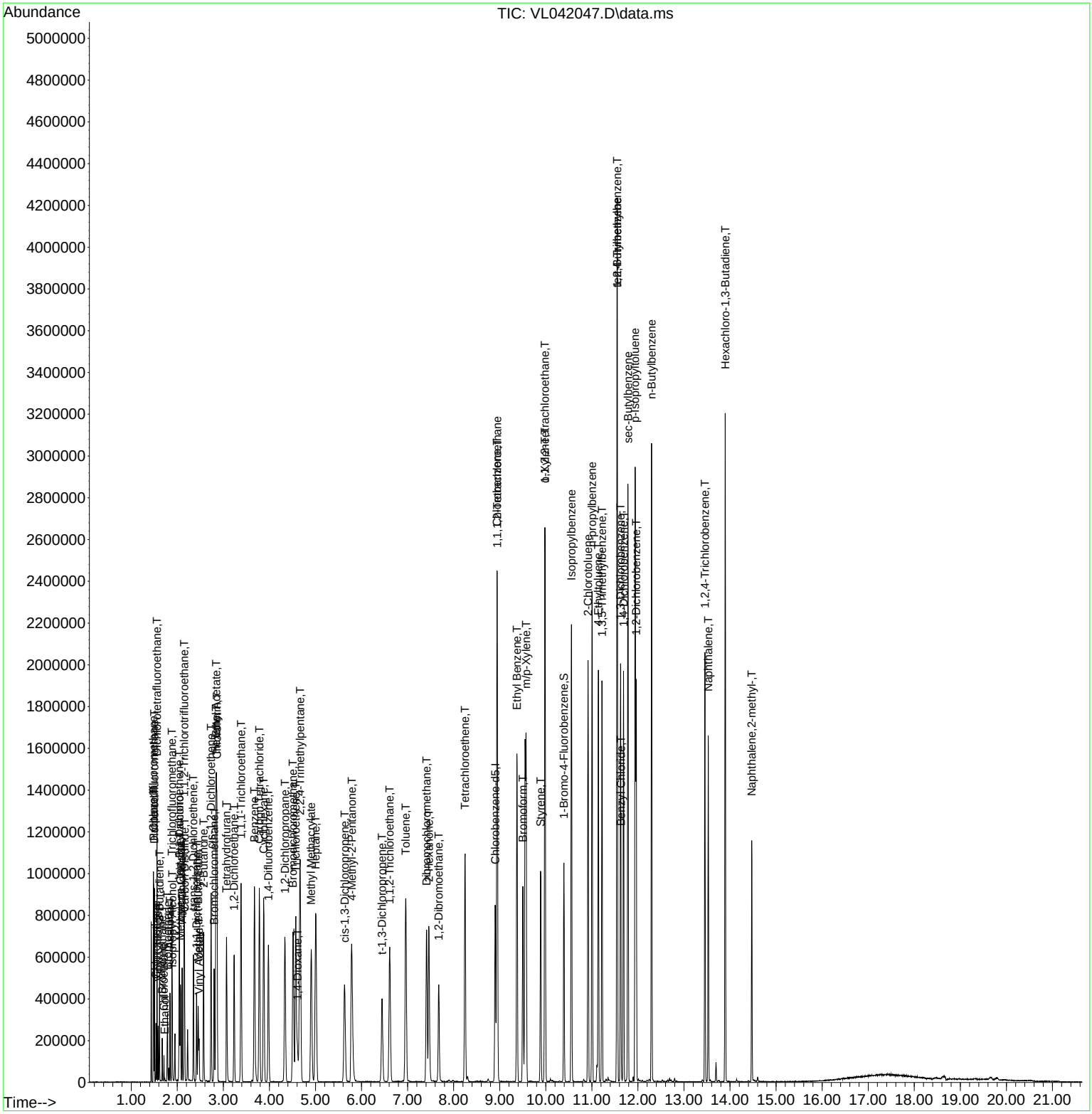
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
Data File : VL042047.D
Acq On : 25 Feb 2025 12:07
Operator : SY/MD
Sample : VSTDICC015
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 25 12:35:10 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Tue Feb 25 10:31:48 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
Data File : VL042048.D
Acq On : 25 Feb 2025 13:15
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 26 01:31:59 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Wed Feb 26 01:08:36 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
ICVVL022525

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.800	49	158881	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.981	114	406520	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.904	117	350262	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.393	95	274527	10.188	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 101.900%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.505	85	158709	9.606	ppbv		99
3) Chlorodifluoromethane	1.479	51	219646	9.512	ppbv		100
4) Chloromethane	1.537	50	54628	8.941	ppbv		100
5) Vinyl Chloride	1.586	62	52672	9.114	ppbv		98
6) Bromomethane	1.673	94	25374	9.221	ppbv		100
7) Chloroethane	1.709	64	22174	9.443	ppbv	#	87
8) Dichlorotetrafluoroethane	1.560	85	127046	9.354	ppbv		100
9) Propene	1.489	41	90844	9.657	ppbv		96
10) Heptane	5.010	43	269133	9.188	ppbv		99
11) Trichlorofluoromethane	1.884	101	156871	9.476	ppbv		100
12) 1,1,2-Trichlorotrifluo...	2.149	101	115089	8.715	ppbv		99
13) Ethanol	1.728	45	2630	4.404	ppbv		98
14) Bromoethene	1.790	108	43546	9.338	ppbv		98
15) Acetone	1.842	43	118697	8.460	ppbv		97
16) 1,3-Butadiene	1.615	39	61603	9.434	ppbv		98
17) tert-Butyl alcohol	2.049	59	154116	8.779	ppbv		98
18) 1,1-Dichloroethene	2.042	96	51973	8.711	ppbv		98
19) Isopropyl Alcohol	1.894	45	69546	8.629	ppbv		96
20) Methylene Chloride	2.072	84	42028	7.919	ppbv		96
21) Allyl Chloride	2.104	41	90745	8.951	ppbv		98
22) trans-1,2-Dichloroethene	2.350	96	59140	8.502	ppbv		98
23) Vinyl Acetate	2.476	43	93605	9.488	ppbv	#	98
24) 1,1-Dichloroethane	2.421	63	112869	8.721	ppbv		100
25) Ethyl Acetate	2.852	43	533113	9.492	ppbv		99
26) Hexane	2.839	57	208955	9.203	ppbv		97
27) Carbon Disulfide	2.159	76	138176	8.978	ppbv		97
28) Methyl tert-Butyl Ether	2.453	73	94554	8.365	ppbv		100
29) Chloroform	2.865	83	281191	9.202	ppbv		97
30) Cyclohexane	3.878	84	168830	9.161	ppbv		94
31) cis-1,2-Dichloroethene	2.735	61	199564	9.285	ppbv		99
32) 1,1,1-Trichloroethane	3.386	97	278512	9.396	ppbv		98
34) 2-Butanone	2.570	43	308064	9.727	ppbv		97
35) Carbon Tetrachloride	3.784	117	276599	9.867	ppbv		98
36) Benzene	3.677	78	399804	9.395	ppbv		98
37) 1,2-Dichloroethane	3.233	62	223946	9.491	ppbv		99
38) Trichloroethene	4.573	130	156488	9.005	ppbv		96
39) 1,2-Dichloropropane	4.340	63	152063	9.414	ppbv		97
40) 1,4-Dioxane	4.616	88	65010	8.817	ppbv	#	98
41) Tetrahydrofuran	3.072	42	181453	9.696	ppbv		99
42) Bromodichloromethane	4.512	83	305385	9.606	ppbv		97
43) Methyl Methacrylate	4.910	69	160954	9.685	ppbv		95
44) 2,2,4-Trimethylpentane	4.667	57	712051	9.480	ppbv		99
45) t-1,3-Dichloropropene	6.447	75	159680	9.671	ppbv		90

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
Data File : VL042048.D
Acq On : 25 Feb 2025 13:15
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 26 01:31:59 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Wed Feb 26 01:08:36 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
ICVVL022525

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) cis-1,3-Dichloropropene	5.635	75	206836	9.680	ppbv		96
47) 1,1,2-Trichloroethane	6.613	97	148220	9.039	ppbv		95
48) Dibromochloromethane	7.412	129	241593	9.407	ppbv		100
49) Bromoform	9.503	173	210370	9.432	ppbv		98
50) 4-Methyl-2-Pentanone	5.790	43	431123	10.526	ppbv		98
51) 2-Hexanone	7.464	43	354515	12.576	ppbv	#	100
52) Tetrachloroethene	8.247	164	134062	9.202	ppbv		97
53) Toluene	6.962	91	448495	9.430	ppbv		98
54) 1,2-Dibromoethane	7.677	107	206335	9.307	ppbv		96
56) 1,1,1,2-Tetrachloroethane	8.946	131	182800	9.234	ppbv		99
57) Chlorobenzene	8.943	112	334696	9.216	ppbv		99
58) Ethyl Benzene	9.377	91	613622	9.513	ppbv		99
59) m/p-Xylene	9.571	91	977425m	19.041	ppbv		
60) o-Xylene	9.985	91	481683	9.334	ppbv		100
61) Styrene	9.891	104	241617	9.959	ppbv		99
62) Isopropylbenzene	10.558	105	729350	9.437	ppbv		100
63) 1,1,2,2-Tetrachloroethane	9.982	83	312794	9.204	ppbv		99
64) n-propylbenzene	11.008	120	192704	9.506	ppbv		99
65) tert-Butylbenzene	11.548	119	632202	8.988	ppbv		100
66) Benzyl Chloride	11.633	91	52645	9.808	ppbv		98
67) sec-Butylbenzene	11.785	105	914405	9.090	ppbv		99
69) p-Isopropyltoluene	11.940	119	753761	9.418	ppbv		100
70) n-Butylbenzene	12.296	91	781034	9.560	ppbv		99
71) 2-Chlorotoluene	10.917	91	559993	9.399	ppbv		100
72) 4-Ethyltoluene	11.144	105	602156	9.557	ppbv		99
73) 1,3,5-Trimethylbenzene	11.222	105	505451	9.248	ppbv		100
74) 1,2,4-Trimethylbenzene	11.555	105	547176	8.891	ppbv		95
75) 1,3-Dichlorobenzene	11.623	146	324491	9.161	ppbv		98
76) 1,4-Dichlorobenzene	11.688	146	322712	9.176	ppbv		99
77) 1,2-Dichlorobenzene	11.963	146	312159	9.081	ppbv		99
78) Hexachloro-1,3-Butadiene	13.895	225	228480	8.543	ppbv		99
79) Naphthalene	13.529	128	513148	12.160	ppbv		98
80) Naphthalene,2-methyl-	14.474	142	198077	17.152	ppbv		98
81) 1,2,4-Trichlorobenzene	13.455	180	234354	9.965	ppbv		97

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

Quantitation Report (QT Reviewed)

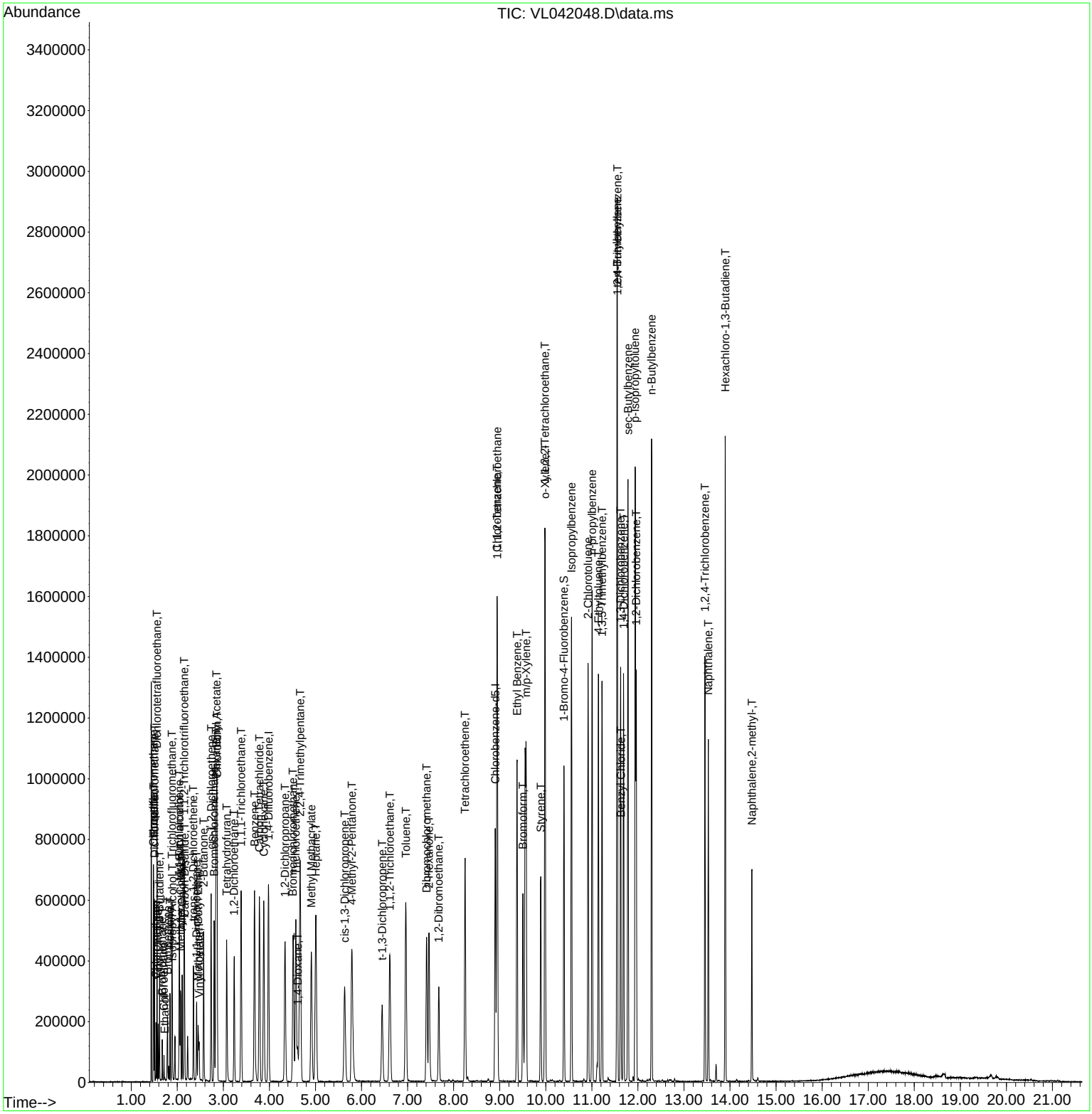
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
Data File : VL042048.D
Acq On : 25 Feb 2025 13:15
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 26 01:31:59 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Wed Feb 26 01:08:36 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
ICVVL022525

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025



Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
Data File : VL042048.D
Acq On : 25 Feb 2025 13:15
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
ICVVL022525

Quant Time: Feb 26 01:31:59 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Feb 26 01:08:36 2025
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Bromochloromethane	1.000	1.000	0.0	99	0.00
2	T	Dichlorodifluoromethane	1.040	0.999	3.9	104	0.00
3		Chlorodifluoromethane	1.453	1.382	4.9	104	0.00
4		Chloromethane	0.385	0.344	10.6	99	0.00
5	T	Vinyl Chloride	0.364	0.332	8.8	97	0.00
6	T	Bromomethane	0.173	0.160	7.5	98	0.00
7		Chloroethane	0.148	0.140	5.4	102	0.00
8	T	Dichlorotetrafluoroethane	0.855	0.800	6.4	101	0.00
9	T	Propene	0.592	0.572	3.4	108	0.00
10	T	Heptane	1.844	1.694	8.1	100	0.00
11	T	Trichlorofluoromethane	1.042	0.987	5.3	103	0.00
12	T	1,1,2-Trichlorotrifluoroeth	0.831	0.724	12.9	102	0.00
13		Ethanol	0.038	0.017#	55.3#	83	0.00
14	T	Bromoethene	0.293	0.274	6.5	103	0.00
15	T	Acetone	0.883	0.747	15.4	103	0.00
16	T	1,3-Butadiene	0.411	0.388	5.6	107	0.00
17		tert-Butyl alcohol	1.105	0.970	12.2	101	0.00
18	T	1,1-Dichloroethene	0.376	0.327	13.0	101	0.00
19	T	Isopropyl Alcohol	0.507	0.438	13.6	103	0.00
20	T	Methylene Chloride	0.334	0.265	20.7	100	0.00
21	T	Allyl Chloride	0.638	0.571	10.5	105	0.00
22	T	trans-1,2-Dichloroethene	0.438	0.372	15.1	103	0.00
23	T	Vinyl Acetate	0.621	0.589	5.2	112	0.00
24	T	1,1-Dichloroethane	0.815	0.710	12.9	105	0.00
25	T	Ethyl Acetate	3.535	3.355	5.1	104	0.00
26	T	Hexane	1.429	1.315	8.0	101	0.00
27	T	Carbon Disulfide	0.969	0.870	10.2	100	0.00
28	T	Methyl tert-Butyl Ether	0.711	0.595	16.3	112	0.00
29	T	Chloroform	1.923	1.770	8.0	101	0.00
30	T	Cyclohexane	1.160	1.063	8.4	97	0.00
31	T	cis-1,2-Dichloroethene	1.353	1.256	7.2	100	0.00
32	T	1,1,1-Trichloroethane	1.866	1.753	6.1	98	0.00
33	I	1,4-Difluorobenzene	1.000	1.000	0.0	96	0.00
34	T	2-Butanone	0.779	0.758	2.7	105	0.00
35	T	Carbon Tetrachloride	0.690	0.680	1.4	100	0.00
36	T	Benzene	1.047	0.983	6.1	98	0.00
37	T	1,2-Dichloroethane	0.580	0.551	5.0	102	0.00
38	T	Trichloroethene	0.427	0.385	9.8	98	0.00
39	T	1,2-Dichloropropane	0.397	0.374	5.8	101	0.00
40	T	1,4-Dioxane	0.181	0.160	11.6	94	0.00
41	T	Tetrahydrofuran	0.460	0.446	3.0	103	0.00
42	T	Bromodichloromethane	0.782	0.751	4.0	98	0.00
43		Methyl Methacrylate	0.409	0.396	3.2	97	0.00
44	T	2,2,4-Trimethylpentane	1.848	1.752	5.2	101	0.00
45	T	t-1,3-Dichloropropene	0.406	0.393	3.2	96	0.00
46	T	cis-1,3-Dichloropropene	0.526	0.509	3.2	95	0.00
47	T	1,1,2-Trichloroethane	0.403	0.365	9.4	97	0.00
48	T	Dibromochloromethane	0.632	0.594	6.0	96	0.00

Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
Data File : VL042048.D
Acq On : 25 Feb 2025 13:15
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
ICVVL022525

Quant Time: Feb 26 01:31:59 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Feb 26 01:08:36 2025
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49	T	Bromoform	0.549	0.517	5.8	95	0.00
50	T	4-Methyl-2-Pentanone	1.008	1.061	-5.3	101	0.00
51	T	2-Hexanone	0.693	0.872	-25.8	101	0.00
52	T	Tetrachloroethene	0.358	0.330	7.8	97	0.00
53	T	Toluene	1.170	1.103	5.7	97	0.00
54	T	1,2-Dibromoethane	0.545	0.508	6.8	98	0.00
55	I	Chlorobenzene-d5	1.000	1.000	0.0	94	0.00
56		1,1,1,2-Tetrachloroethane	0.565	0.522	7.6	97	0.00
57	T	Chlorobenzene	1.037	0.956	7.8	98	0.00
58	T	Ethyl Benzene	1.842	1.752	4.9	97	0.00
59	T	m/p-Xylene	1.466	1.395	4.8	98	0.02
60	T	o-Xylene	1.473	1.375	6.7	98	0.00
61	T	Styrene	0.693	0.690	0.4	98	0.00
62		Isopropylbenzene	2.207	2.082	5.7	99	0.00
63	T	1,1,2,2-Tetrachloroethane	0.970	0.893	7.9	99	0.00
64		n-propylbenzene	0.579	0.550	5.0	98	0.00
65		tert-Butylbenzene	2.008	1.805	10.1	97	0.00
66	T	Benzyl Chloride	0.153	0.150	2.0	92	0.00
67		sec-Butylbenzene	2.872	2.611	9.1	98	0.00
68	S	1-Bromo-4-Fluorobenzene	0.769	0.784	-2.0	96	0.00
69		p-Isopropyltoluene	2.285	2.152	5.8	100	0.00
70		n-Butylbenzene	2.332	2.230	4.4	101	0.00
71		2-Chlorotoluene	1.701	1.599	6.0	99	0.00
72	T	4-Ethyltoluene	1.799	1.719	4.4	99	0.00
73	T	1,3,5-Trimethylbenzene	1.560	1.443	7.5	98	0.00
74	T	1,2,4-Trimethylbenzene	1.757	1.562	11.1	99	0.00
75	T	1,3-Dichlorobenzene	1.011	0.926	8.4	100	0.00
76	T	1,4-Dichlorobenzene	1.004	0.921	8.3	100	0.00
77	T	1,2-Dichlorobenzene	0.981	0.891	9.2	100	0.00
78	T	Hexachloro-1,3-Butadiene	0.764	0.652	14.7	96	0.00
79	T	Naphthalene	1.205	1.465	-21.6	100	0.00
80	T	Naphthalene,2-methyl-	0.330	0.566	-71.5#	94	0.00
81	T	1,2,4-Trichlorobenzene	0.671	0.669	0.3	97	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

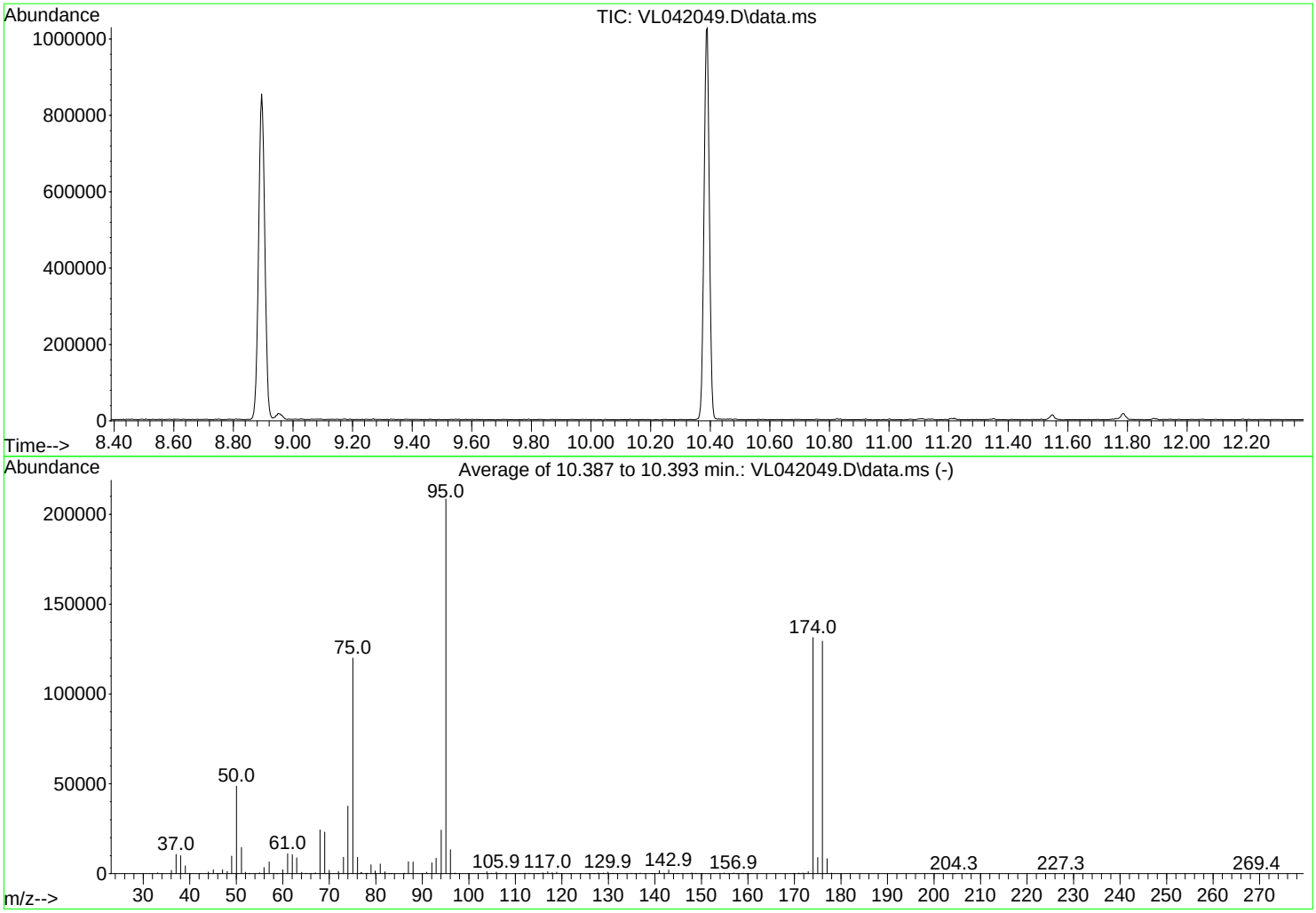
BFB

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022625\
Data File : VL042049.D
Acq On : 26 Feb 2025 07:46
Operator : SY/MD
Sample : BFB
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
Last Update : Wed Feb 26 01:08:36 2025



AutoFind: Scans 3182, 3183, 3184; Background Corrected with Scan 3165

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	23.3	48688	PASS
75	95	30	66	57.6	120021	PASS
95	95	100	100	100.0	208533	PASS
96	95	5	9	6.4	13271	PASS
173	174	0.00	2	0.8	1077	PASS
174	95	50	120	63.0	131429	PASS
175	174	4	9	6.8	8951	PASS
176	174	93	101	98.5	129411	PASS
177	176	5	9	6.4	8302	PASS

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022625\
Data File : VL042050.D
Acq On : 26 Feb 2025 08:38
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 27 00:24:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Wed Feb 26 01:08:36 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.797	49	157492	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.975	114	387144	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.898	117	336136	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.390	95	264623	10.233	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 102.300%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.502	85	159125	9.716	ppbv	96
3) Chlorodifluoromethane	1.479	51	217238	9.491	ppbv	99
4) Chloromethane	1.538	50	54275	8.962	ppbv	97
5) Vinyl Chloride	1.583	62	53871	9.404	ppbv	99
6) Bromomethane	1.670	94	25674	9.412	ppbv	100
7) Chloroethane	1.709	64	22033	9.466	ppbv	89
8) Dichlorotetrafluoroethane	1.557	85	129383	9.610	ppbv	99
9) Propene	1.486	41	87439	9.377	ppbv	97
10) Heptane	5.001	43	268030	9.231	ppbv	99
11) Trichlorofluoromethane	1.884	101	155832	9.496	ppbv	98
12) 1,1,2-Trichlorotrifluo...	2.146	101	114341	8.735	ppbv	99
13) Ethanol	1.725	45	2918	4.929	ppbv	98
14) Bromoethene	1.787	108	44414	9.608	ppbv	95
15) Acetone	1.842	43	116372	8.367	ppbv	98
16) 1,3-Butadiene	1.612	39	59133	9.136	ppbv	99
17) tert-Butyl alcohol	2.046	59	153167	8.802	ppbv	96
18) 1,1-Dichloroethene	2.039	96	51101	8.640	ppbv	93
19) Isopropyl Alcohol	1.890	45	69014	8.638	ppbv	98
20) Methylene Chloride	2.068	84	42907	8.156	ppbv	98
21) Allyl Chloride	2.101	41	86423	8.600	ppbv	99
22) trans-1,2-Dichloroethene	2.347	96	61551	8.927	ppbv	98
23) Vinyl Acetate	2.470	43	84867	8.678	ppbv	98
24) 1,1-Dichloroethane	2.418	63	118286	9.220	ppbv	99
25) Ethyl Acetate	2.848	43	521677	9.371	ppbv	99
26) Hexane	2.835	57	207168	9.205	ppbv	98
27) Carbon Disulfide	2.156	76	138544	9.081	ppbv	95
28) Methyl tert-Butyl Ether	2.447	73	88652	7.912	ppbv	97
29) Chloroform	2.858	83	273992	9.045	ppbv	98
30) Cyclohexane	3.871	84	167364	9.162	ppbv	94
31) cis-1,2-Dichloroethene	2.732	61	197466	9.268	ppbv	97
32) 1,1,1-Trichloroethane	3.379	97	275336	9.370	ppbv	97
34) 2-Butanone	2.567	43	298594	9.900	ppbv	97
35) Carbon Tetrachloride	3.777	117	272097	10.192	ppbv	97
36) Benzene	3.670	78	394494	9.734	ppbv	97
37) 1,2-Dichloroethane	3.230	62	224585	9.995	ppbv	99
38) Trichloroethene	4.567	130	149021	9.005	ppbv	97
39) 1,2-Dichloropropane	4.331	63	151626	9.857	ppbv	95
40) 1,4-Dioxane	4.606	88	68639	9.775	ppbv #	98
41) Tetrahydrofuran	3.065	42	178871	10.037	ppbv	97
42) Bromodichloromethane	4.509	83	306517	10.124	ppbv	98
43) Methyl Methacrylate	4.900	69	156460	9.885	ppbv	96
44) 2,2,4-Trimethylpentane	4.658	57	703370	9.834	ppbv	99
45) t-1,3-Dichloropropene	6.438	75	155197	9.870	ppbv	96

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022625\
Data File : VL042050.D
Acq On : 26 Feb 2025 08:38
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 27 00:24:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Wed Feb 26 01:08:36 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) cis-1,3-Dichloropropene	5.622	75	205249	10.087	ppbv		99
47) 1,1,2-Trichloroethane	6.603	97	148058	9.481	ppbv		96
48) Dibromochloromethane	7.409	129	240304	9.825	ppbv		100
49) Bromoform	9.496	173	205649	9.682	ppbv		98
50) 4-Methyl-2-Pentanone	5.778	43	423271	10.851	ppbv		97
51) 2-Hexanone	7.454	43	345562	12.872	ppbv	#	100
52) Tetrachloroethene	8.237	164	131164	9.454	ppbv		97
53) Toluene	6.952	91	439634	9.706	ppbv		98
54) 1,2-Dibromoethane	7.671	107	200726	9.507	ppbv		97
56) 1,1,1,2-Tetrachloroethane	8.940	131	178871	9.415	ppbv		100
57) Chlorobenzene	8.937	112	326805	9.377	ppbv		99
58) Ethyl Benzene	9.367	91	598242	9.664	ppbv		99
59) m/p-Xylene	9.564	91	957021m	19.427	ppbv		
60) o-Xylene	9.979	91	475848	9.608	ppbv		100
61) Styrene	9.885	104	231133	9.927	ppbv		99
62) Isopropylbenzene	10.552	105	718826	9.692	ppbv		100
63) 1,1,2,2-Tetrachloroethane	9.975	83	312195	9.572	ppbv		98
64) n-propylbenzene	11.001	120	185068	9.513	ppbv		95
65) tert-Butylbenzene	11.542	119	618290	9.160	ppbv		98
66) Benzyl Chloride	11.629	91	49850	9.678	ppbv		98
67) sec-Butylbenzene	11.778	105	890927	9.229	ppbv		100
69) p-Isopropyltoluene	11.937	119	724678	9.435	ppbv		100
70) n-Butylbenzene	12.293	91	756366	9.648	ppbv		99
71) 2-Chlorotoluene	10.914	91	545538	9.541	ppbv		99
72) 4-Ethyltoluene	11.137	105	574661	9.504	ppbv		99
73) 1,3,5-Trimethylbenzene	11.215	105	484912	9.245	ppbv		98
74) 1,2,4-Trimethylbenzene	11.548	105	527932	8.938	ppbv		96
75) 1,3-Dichlorobenzene	11.620	146	309408	9.102	ppbv		99
76) 1,4-Dichlorobenzene	11.684	146	309423	9.168	ppbv		99
77) 1,2-Dichlorobenzene	11.960	146	302720	9.177	ppbv		99
78) Hexachloro-1,3-Butadiene	13.892	225	229379	8.937	ppbv		100
79) Naphthalene	13.523	128	493813	12.193	ppbv		99
80) Naphthalene,2-methyl-	14.468	142	190978	17.232	ppbv		99
81) 1,2,4-Trichlorobenzene	13.452	180	226561	10.038	ppbv		98

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

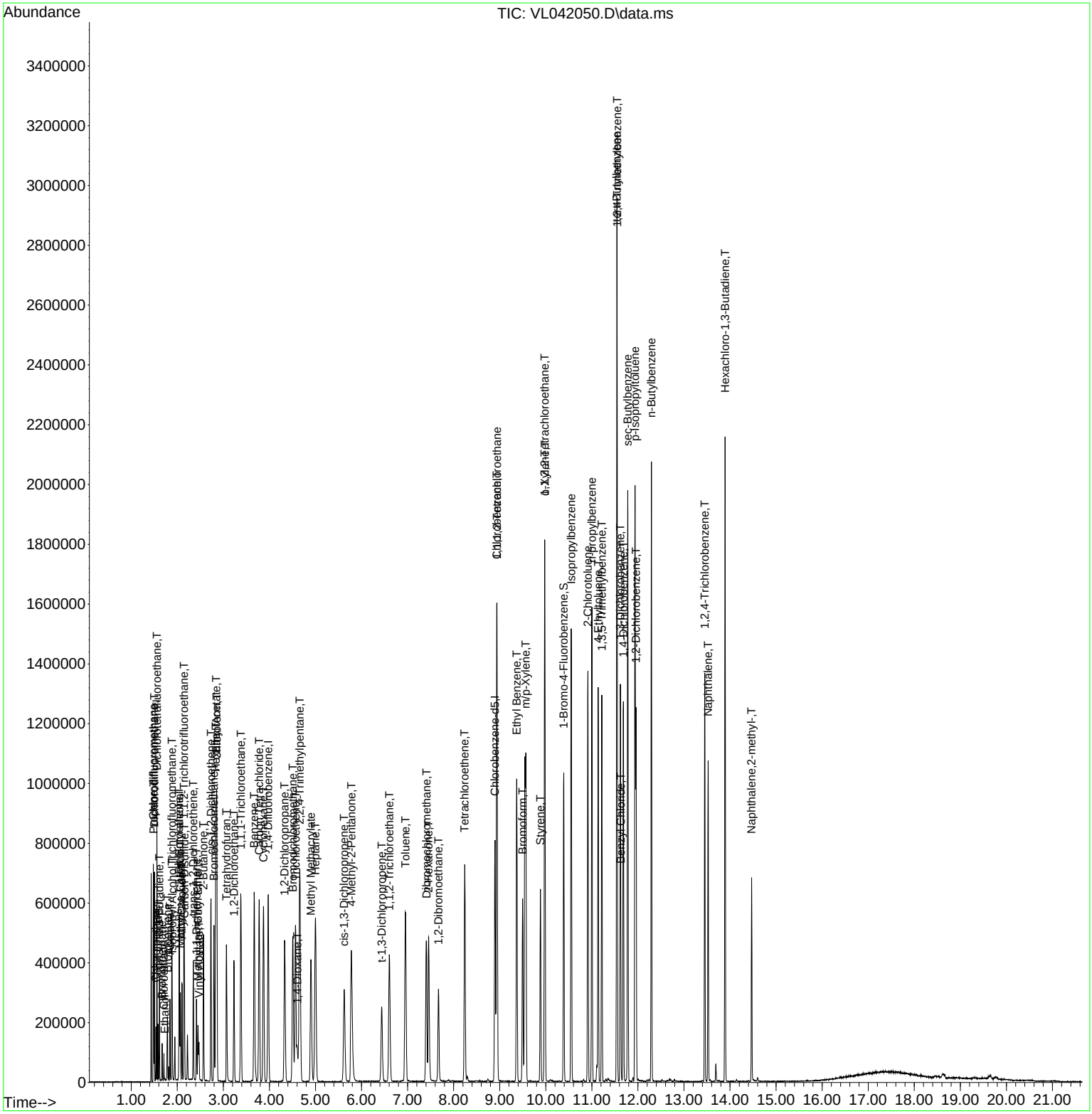
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022625\
Data File : VL042050.D
Acq On : 26 Feb 2025 08:38
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 27 00:24:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Wed Feb 26 01:08:36 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025



Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022625\
Data File : VL042050.D
Acq On : 26 Feb 2025 08:38
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
LabSampleId :
VSTDCCC010

Quant Time: Feb 27 00:24:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Feb 26 01:08:36 2025
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Bromochloromethane	1.000	1.000	0.0	98	0.00
2	T	Dichlorodifluoromethane	1.040	1.010	2.9	105	0.00
3		Chlorodifluoromethane	1.453	1.379	5.1	103	0.00
4		Chloromethane	0.385	0.345	10.4	98	0.00
5	T	Vinyl Chloride	0.364	0.342	6.0	99	0.00
6	T	Bromomethane	0.173	0.163	5.8	99	0.00
7		Chloroethane	0.148	0.140	5.4	101	0.00
8	T	Dichlorotetrafluoroethane	0.855	0.822	3.9	103	0.00
9	T	Propene	0.592	0.555	6.2	104	0.00
10	T	Heptane	1.844	1.702	7.7	100	0.00
11	T	Trichlorofluoromethane	1.042	0.989	5.1	102	0.00
12	T	1,1,2-Trichlorotrifluoroeth	0.831	0.726	12.6	102	0.00
13		Ethanol	0.038	0.019#	50.0#	92	0.00
14	T	Bromoethene	0.293	0.282	3.8	105	0.00
15	T	Acetone	0.883	0.739	16.3	101	0.00
16	T	1,3-Butadiene	0.411	0.375	8.8	102	0.00
17		tert-Butyl alcohol	1.105	0.973	11.9	100	0.00
18	T	1,1-Dichloroethene	0.376	0.324	13.8	99	0.00
19	T	Isopropyl Alcohol	0.507	0.438	13.6	102	0.00
20	T	Methylene Chloride	0.334	0.272	18.6	102	0.00
21	T	Allyl Chloride	0.638	0.549	13.9	100	0.00
22	T	trans-1,2-Dichloroethene	0.438	0.391	10.7	107	0.00
23	T	Vinyl Acetate	0.621	0.539	13.2	101	0.00
24	T	1,1-Dichloroethane	0.815	0.751	7.9	110	0.00
25	T	Ethyl Acetate	3.535	3.312	6.3	102	0.00
26	T	Hexane	1.429	1.315	8.0	100	0.00
27	T	Carbon Disulfide	0.969	0.880	9.2	100	0.00
28	T	Methyl tert-Butyl Ether	0.711	0.563	20.8	105	0.00
29	T	Chloroform	1.923	1.740	9.5	99	0.00
30	T	Cyclohexane	1.160	1.063	8.4	97	0.00
31	T	cis-1,2-Dichloroethene	1.353	1.254	7.3	99	0.00
32	T	1,1,1-Trichloroethane	1.866	1.748	6.3	96	0.00
33	I	1,4-Difluorobenzene	1.000	1.000	0.0	92	0.00
34	T	2-Butanone	0.779	0.771	1.0	102	0.00
35	T	Carbon Tetrachloride	0.690	0.703	-1.9	98	0.00
36	T	Benzene	1.047	1.019	2.7	96	0.00
37	T	1,2-Dichloroethane	0.580	0.580	0.0	102	0.00
38	T	Trichloroethene	0.427	0.385	9.8	93	0.00
39	T	1,2-Dichloropropane	0.397	0.392	1.3	100	0.00
40	T	1,4-Dioxane	0.181	0.177	2.2	99	0.00
41	T	Tetrahydrofuran	0.460	0.462	-0.4	101	0.00
42	T	Bromodichloromethane	0.782	0.792	-1.3	98	0.00
43		Methyl Methacrylate	0.409	0.404	1.2	95	0.00
44	T	2,2,4-Trimethylpentane	1.848	1.817	1.7	100	0.00
45	T	t-1,3-Dichloropropene	0.406	0.401	1.2	93	0.00
46	T	cis-1,3-Dichloropropene	0.526	0.530	-0.8	94	0.00
47	T	1,1,2-Trichloroethane	0.403	0.382	5.2	97	0.00
48	T	Dibromochloromethane	0.632	0.621	1.7	96	0.00

Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022625\
Data File : VL042050.D
Acq On : 26 Feb 2025 08:38
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
LabSampleId :
VSTDCCC010

Quant Time: Feb 27 00:24:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Feb 26 01:08:36 2025
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49	T	Bromoform	0.549	0.531	3.3	93	0.00
50	T	4-Methyl-2-Pentanone	1.008	1.093	-8.4	99	0.00
51	T	2-Hexanone	0.693	0.893	-28.9	98	0.00
52	T	Tetrachloroethene	0.358	0.339	5.3	95	0.00
53	T	Toluene	1.170	1.136	2.9	96	0.00
54	T	1,2-Dibromoethane	0.545	0.518	5.0	95	0.00
55	I	Chlorobenzene-d5	1.000	1.000	0.0	90	0.00
56		1,1,1,2-Tetrachloroethane	0.565	0.532	5.8	95	0.00
57	T	Chlorobenzene	1.037	0.972	6.3	96	0.00
58	T	Ethyl Benzene	1.842	1.780	3.4	94	0.00
59	T	m/p-Xylene	1.466	1.424	2.9	96	0.01
60	T	o-Xylene	1.473	1.416	3.9	97	0.00
61	T	Styrene	0.693	0.688	0.7	94	0.00
62		Isopropylbenzene	2.207	2.138	3.1	98	0.00
63	T	1,1,2,2-Tetrachloroethane	0.970	0.929	4.2	98	0.00
64		n-propylbenzene	0.579	0.551	4.8	94	0.00
65		tert-Butylbenzene	2.008	1.839	8.4	95	0.00
66	T	Benzyl Chloride	0.153	0.148	3.3	87	0.00
67		sec-Butylbenzene	2.872	2.650	7.7	96	0.00
68	S	1-Bromo-4-Fluorobenzene	0.769	0.787	-2.3	93	0.00
69		p-Isopropyltoluene	2.285	2.156	5.6	96	0.00
70		n-Butylbenzene	2.332	2.250	3.5	98	0.00
71		2-Chlorotoluene	1.701	1.623	4.6	96	0.00
72	T	4-Ethyltoluene	1.799	1.710	4.9	95	0.00
73	T	1,3,5-Trimethylbenzene	1.560	1.443	7.5	94	0.00
74	T	1,2,4-Trimethylbenzene	1.757	1.571	10.6	96	0.00
75	T	1,3-Dichlorobenzene	1.011	0.920	9.0	95	0.00
76	T	1,4-Dichlorobenzene	1.004	0.921	8.3	96	0.00
77	T	1,2-Dichlorobenzene	0.981	0.901	8.2	97	0.00
78	T	Hexachloro-1,3-Butadiene	0.764	0.682	10.7	96	0.00
79	T	Naphthalene	1.205	1.469	-21.9	96	0.00
80	T	Naphthalene,2-methyl-	0.330	0.568	-72.1#	91	0.00
81	T	1,2,4-Trichlorobenzene	0.671	0.674	-0.4	94	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022625\
Data File : VL042051.D
Acq On : 26 Feb 2025 09:20
Operator : SY/MD
Sample : VL0226ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0226ABL01

Quant Time: Feb 27 00:25:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Feb 26 01:08:36 2025
Response via : Initial Calibration

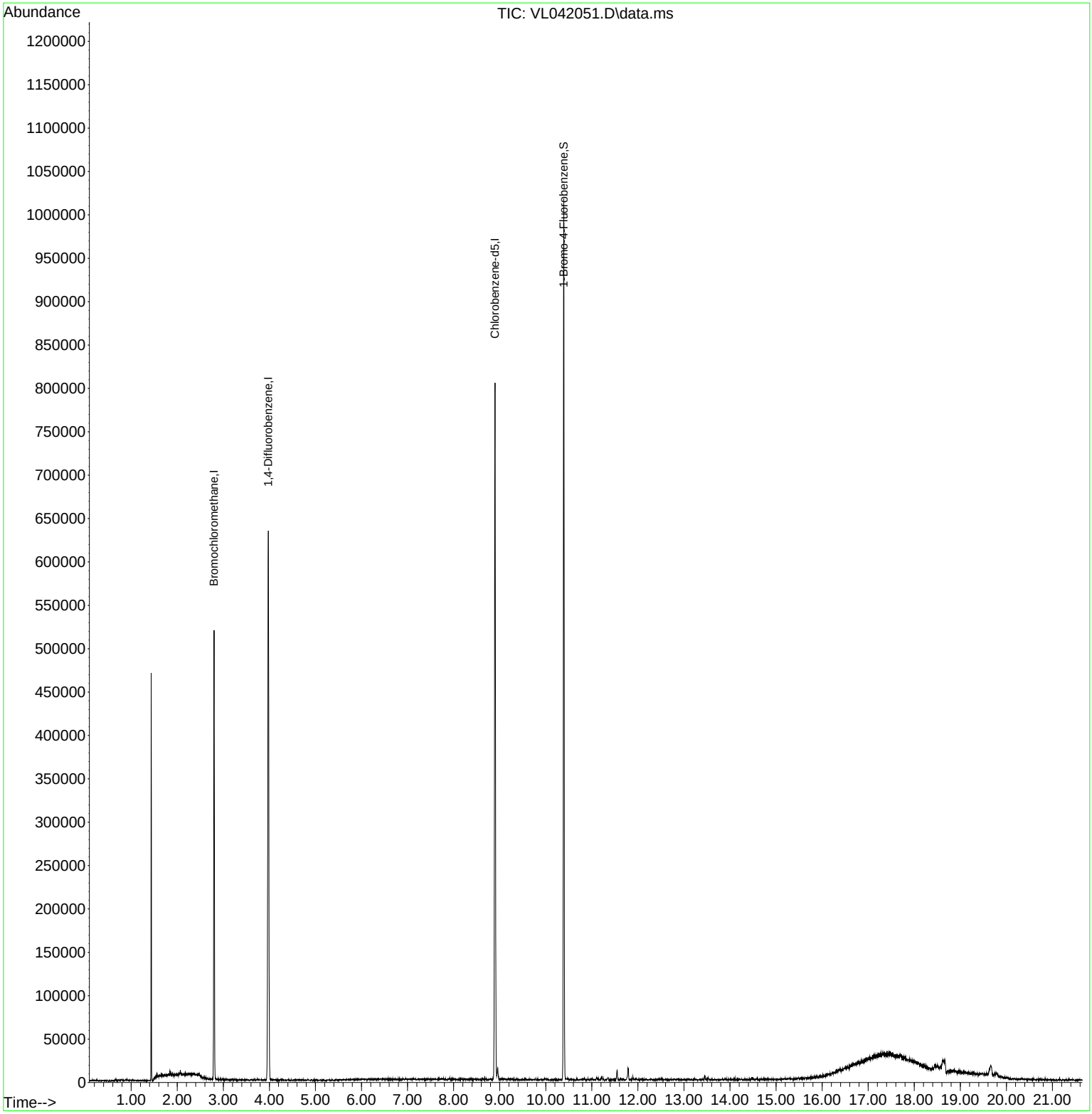
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.797	49	157395	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.975	114	386755	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.898	117	331916	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.390	95	257988	10.103	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 101.000%			
Target Compounds						Qvalue

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022625\
Data File : VL042051.D
Acq On : 26 Feb 2025 09:20
Operator : SY/MD
Sample : VL0226ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0226ABL01

Quant Time: Feb 27 00:25:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Feb 26 01:08:36 2025
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022625\
Data File : VL042052.D
Acq On : 26 Feb 2025 10:04
Operator : SY/MD
Sample : QC021725 CAN 10271
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
QC021725 CAN 10271

Quant Time: Feb 27 00:25:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Feb 26 01:08:36 2025
Response via : Initial Calibration

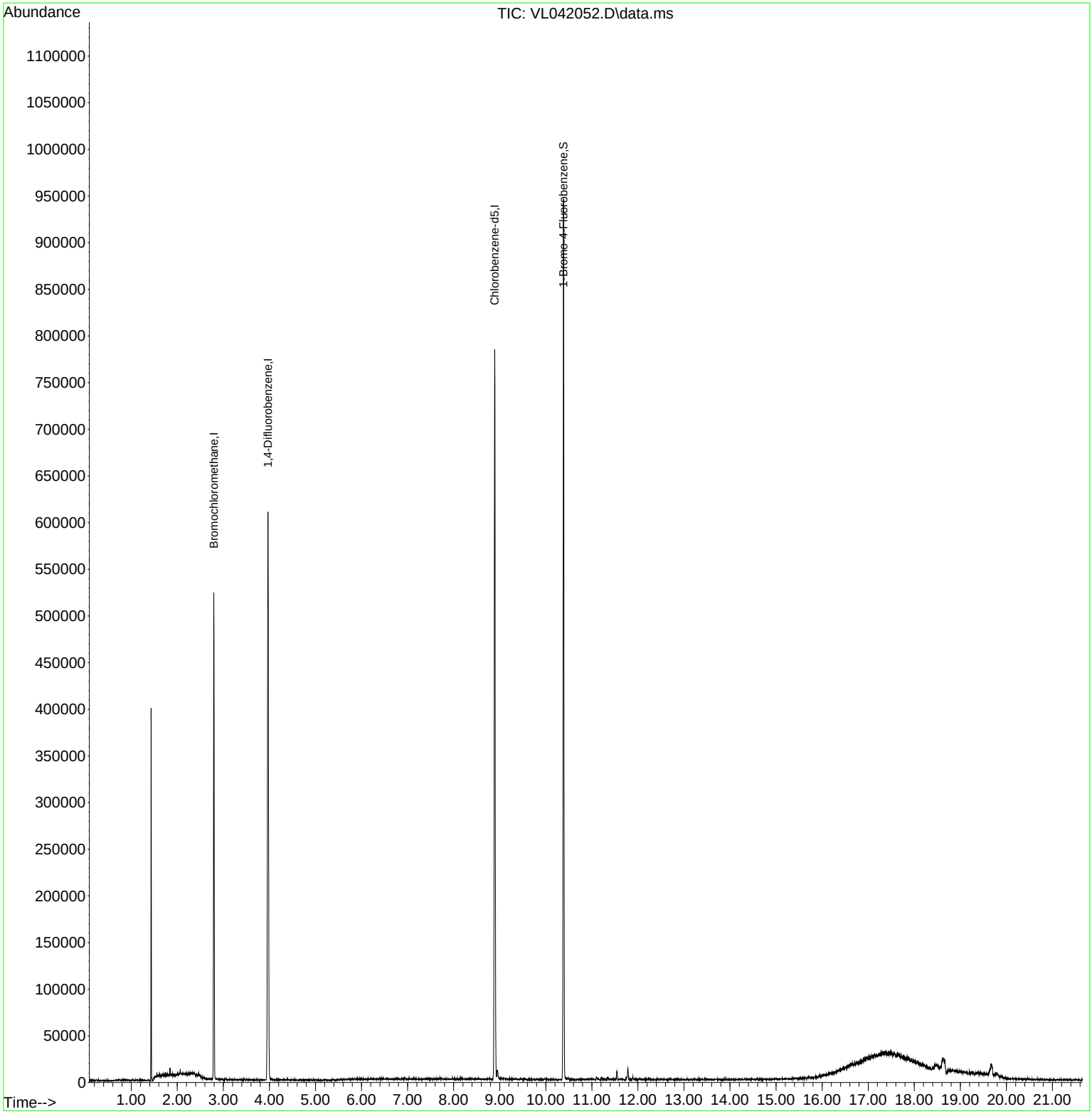
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.794	49	152414	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.969	114	364923	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.891	117	316584	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.384	95	246219	10.109	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 101.100%			
Target Compounds						Qvalue

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022625\
Data File : VL042052.D
Acq On : 26 Feb 2025 10:04
Operator : SY/MD
Sample : QC021725 CAN 10271
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
QC021725 CAN 10271

Quant Time: Feb 27 00:25:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Feb 26 01:08:36 2025
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022625\
Data File : VL042054.D
Acq On : 26 Feb 2025 11:07
Operator : SY/MD
Sample : VL0226ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 27 00:26:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Wed Feb 26 01:08:36 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VL0226ABS01

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.797	49	153181	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.972	114	369057	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.895	117	318885	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.387	95	257152	10.482	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 104.800%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.502	85	154942	9.727	ppbv	100
3) Chlorodifluoromethane	1.480	51	208345	9.358	ppbv	100
4) Chloromethane	1.538	50	53585	9.097	ppbv	99
5) Vinyl Chloride	1.583	62	54944	9.861	ppbv	96
6) Bromomethane	1.674	94	25364	9.560	ppbv	96
7) Chloroethane	1.709	64	21007	9.279	ppbv	88
8) Dichlorotetrafluoroethane	1.557	85	125091	9.553	ppbv	98
9) Propene	1.486	41	83500	9.206	ppbv	99
10) Heptane	5.001	43	256046	9.067	ppbv	99
11) Trichlorofluoromethane	1.884	101	154527	9.682	ppbv	97
12) 1,1,2-Trichlorotrifluo...	2.146	101	124837	9.805	ppbv	96
13) Ethanol	1.726	45	3000	5.211	ppbv	92
14) Bromoethene	1.787	108	43051	9.576	ppbv	99
15) Acetone	1.842	43	116404	8.605	ppbv	100
16) 1,3-Butadiene	1.612	39	57319	9.105	ppbv	99
17) tert-Butyl alcohol	2.049	59	156939	9.273	ppbv	99
18) 1,1-Dichloroethene	2.039	96	53389	9.281	ppbv	86
19) Isopropyl Alcohol	1.891	45	68899	8.867	ppbv	100
20) Methylene Chloride	2.069	84	46174	9.024	ppbv	93
21) Allyl Chloride	2.101	41	92702	9.484	ppbv	99
22) trans-1,2-Dichloroethene	2.347	96	61477	9.167	ppbv	99
23) Vinyl Acetate	2.470	43	80476	8.461	ppbv	98
24) 1,1-Dichloroethane	2.415	63	119185	9.551	ppbv	99
25) Ethyl Acetate	2.845	43	509260	9.405	ppbv	100
26) Hexane	2.836	57	194754	8.897	ppbv	94
27) Carbon Disulfide	2.156	76	144095	9.711	ppbv #	91
28) Methyl tert-Butyl Ether	2.451	73	106845	9.804	ppbv	99
29) Chloroform	2.858	83	266332	9.040	ppbv	98
30) Cyclohexane	3.871	84	158311	8.910	ppbv	94
31) cis-1,2-Dichloroethene	2.729	61	193240	9.325	ppbv	94
32) 1,1,1-Trichloroethane	3.379	97	262261	9.177	ppbv	96
34) 2-Butanone	2.567	43	292802	10.184	ppbv	97
35) Carbon Tetrachloride	3.778	117	262129	10.300	ppbv	95
36) Benzene	3.671	78	375533	9.720	ppbv	95
37) 1,2-Dichloroethane	3.231	62	218716	10.211	ppbv	98
38) Trichloroethene	4.567	130	143714	9.110	ppbv	95
39) 1,2-Dichloropropane	4.331	63	146117	9.964	ppbv	99
40) 1,4-Dioxane	4.603	88	65661	9.809	ppbv #	96
41) Tetrahydrofuran	3.066	42	172429	10.150	ppbv	98
42) Bromodichloromethane	4.506	83	289453	10.029	ppbv	100
43) Methyl Methacrylate	4.904	69	151059	10.012	ppbv	95
44) 2,2,4-Trimethylpentane	4.658	57	684336	10.036	ppbv	99
45) t-1,3-Dichloropropene	6.441	75	147062	9.811	ppbv	94

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022625\
Data File : VL042054.D
Acq On : 26 Feb 2025 11:07
Operator : SY/MD
Sample : VL0226ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 27 00:26:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Wed Feb 26 01:08:36 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VL0226ABS01

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46)	cis-1,3-Dichloropropene	5.626	75	191420	9.868	ppbv		98
47)	1,1,2-Trichloroethane	6.603	97	139001	9.337	ppbv		97
48)	Dibromochloromethane	7.406	129	228694	9.808	ppbv		100
49)	Bromoform	9.497	173	194002	9.581	ppbv		99
50)	4-Methyl-2-Pentanone	5.775	43	407870	10.969	ppbv		98
51)	2-Hexanone	7.454	43	327784	12.808	ppbv	#	99
52)	Tetrachloroethene	8.241	164	123860	9.365	ppbv		95
53)	Toluene	6.953	91	418086	9.683	ppbv		98
54)	1,2-Dibromoethane	7.671	107	190454	9.462	ppbv		98
56)	1,1,1,2-Tetrachloroethane	8.940	131	171980	9.542	ppbv		100
57)	Chlorobenzene	8.937	112	313487	9.482	ppbv		98
58)	Ethyl Benzene	9.370	91	575798	9.805	ppbv		99
59)	m/p-Xylene	9.565	91	909392m	19.459	ppbv		
60)	o-Xylene	9.976	91	450481	9.588	ppbv		100
61)	Styrene	9.882	104	218205	9.879	ppbv		100
62)	Isopropylbenzene	10.552	105	678100	9.637	ppbv		99
63)	1,1,2,2-Tetrachloroethane	9.976	83	295251	9.543	ppbv		99
64)	n-propylbenzene	10.999	120	178544	9.674	ppbv		95
65)	tert-Butylbenzene	11.542	119	599970	9.369	ppbv		98
66)	Benzyl Chloride	11.630	91	44022	9.009	ppbv		97
67)	sec-Butylbenzene	11.779	105	863022	9.423	ppbv		99
69)	p-Isopropyltoluene	11.937	119	715231	9.816	ppbv		99
70)	n-Butylbenzene	12.293	91	744799	10.014	ppbv		99
71)	2-Chlorotoluene	10.914	91	520897	9.603	ppbv		99
72)	4-Ethyltoluene	11.138	105	558376	9.734	ppbv		99
73)	1,3,5-Trimethylbenzene	11.215	105	475566	9.557	ppbv		98
74)	1,2,4-Trimethylbenzene	11.549	105	520419	9.288	ppbv		99
75)	1,3-Dichlorobenzene	11.620	146	302808	9.390	ppbv		98
76)	1,4-Dichlorobenzene	11.685	146	298128	9.311	ppbv		99
77)	1,2-Dichlorobenzene	11.960	146	293043	9.364	ppbv		99
78)	Hexachloro-1,3-Butadiene	13.892	225	216968	8.911	ppbv		99
79)	Naphthalene	13.523	128	476359	12.399	ppbv		99
80)	Naphthalene,2-methyl-	14.468	142	187061	17.792	ppbv		98
81)	1,2,4-Trichlorobenzene	13.452	180	218258	10.194	ppbv		99

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

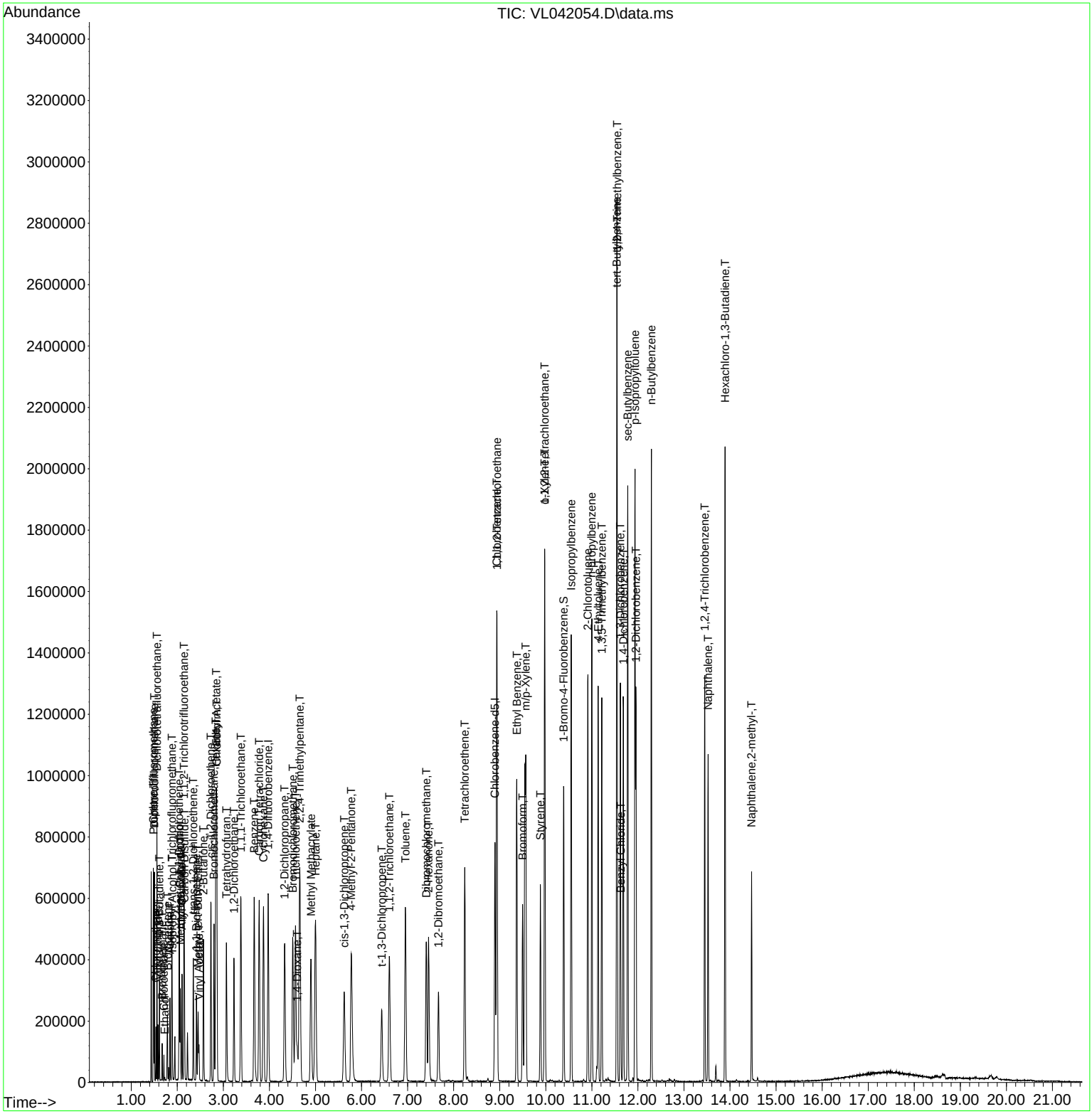
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022625\
Data File : VL042054.D
Acq On : 26 Feb 2025 11:07
Operator : SY/MD
Sample : VL0226ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 27 00:26:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Wed Feb 26 01:08:36 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VL0226ABS01

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025



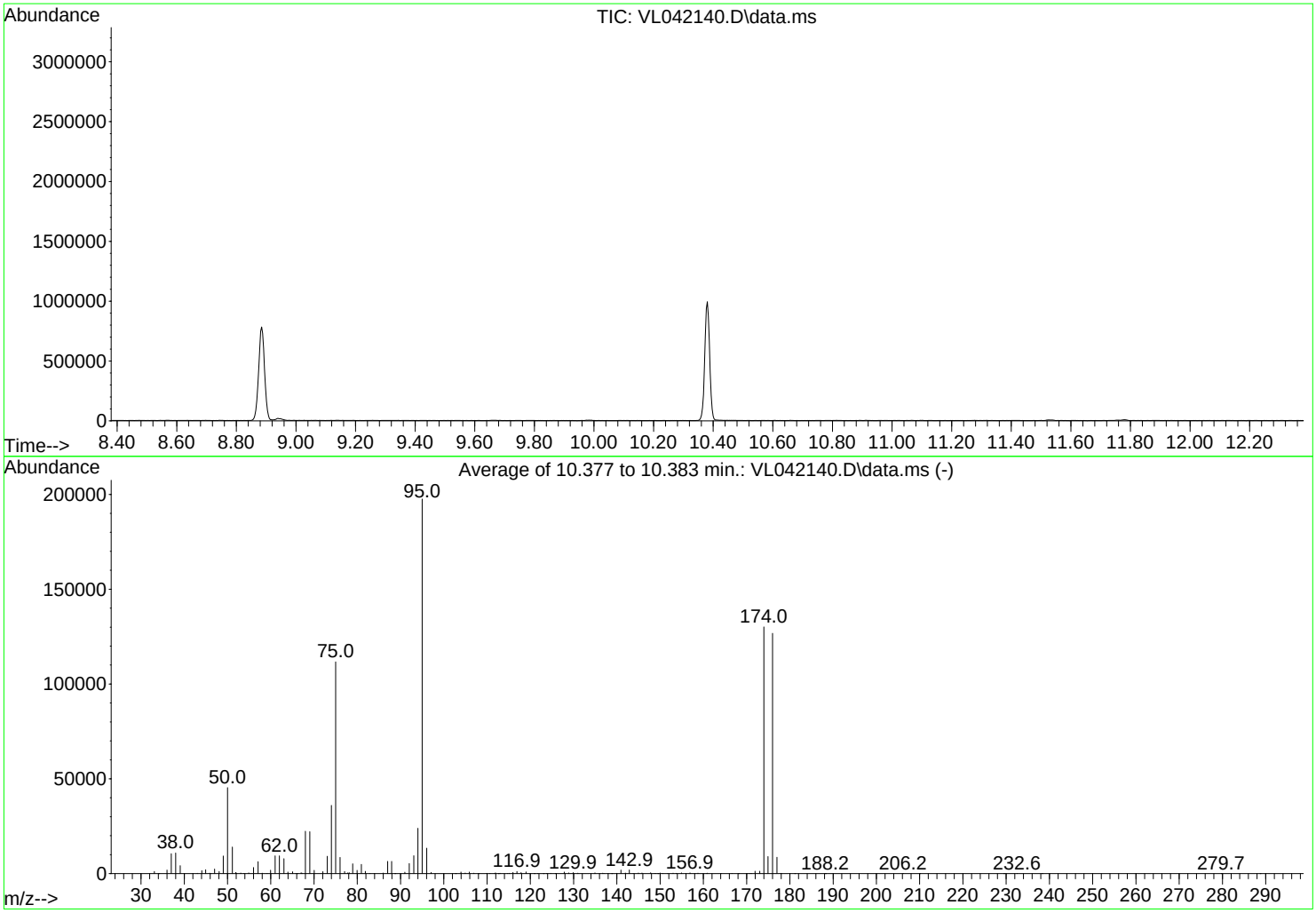
BFB

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL031425\
Data File : VL042140.D
Acq On : 14 Mar 2025 07:56
Operator : SY/MD
Sample : BFB
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
Last Update : Wed Feb 26 01:08:36 2025



AutoFind: Scans 3179, 3180, 3181; Background Corrected with Scan 3165

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	22.9	45333	PASS
75	95	30	66	56.5	111685	PASS
95	95	100	100	100.0	197589	PASS
96	95	5	9	6.8	13388	PASS
173	174	0.00	2	1.0	1315	PASS
174	95	50	120	65.9	130120	PASS
175	174	4	9	6.9	8967	PASS
176	174	93	101	97.4	126715	PASS
177	176	5	9	6.8	8618	PASS

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL031425\
Data File : VL042141.D
Acq On : 14 Mar 2025 08:39
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 14 23:16:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Wed Feb 26 01:08:36 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 03/17/2025
Supervised By :Mahesh Dadoda 03/17/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.784	49	175939	10.000	ppbv	-0.02
33) 1,4-Difluorobenzene	3.959	114	420429	10.000	ppbv	-0.02
55) Chlorobenzene-d5	8.882	117	358414	10.000	ppbv	-0.02
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	293332	10.638	ppbv	-0.02
Spiked Amount 10.000	Range 65 - 135		Recovery = 106.400%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	191974	10.493	ppbv	100
3) Chlorodifluoromethane	1.476	51	228149	8.922	ppbv	100
4) Chloromethane	1.532	50	72618	10.733	ppbv	97
5) Vinyl Chloride	1.580	62	70955	11.087	ppbv	96
6) Bromomethane	1.667	94	34387	11.284	ppbv	97
7) Chloroethane	1.703	64	27399	10.537	ppbv	94
8) Dichlorotetrafluoroethane	1.554	85	161623	10.746	ppbv	98
9) Propene	1.483	41	95933	9.209	ppbv	98
10) Heptane	4.979	43	269945	8.323	ppbv	98
11) Trichlorofluoromethane	1.875	101	202929	11.070	ppbv	97
12) 1,1,2-Trichlorotrifluo...	2.137	101	150319	10.280	ppbv	96
13) Ethanol	1.719	45	5940	8.982	ppbv	91
14) Bromoethene	1.781	108	55223	10.694	ppbv	99
15) Acetone	1.836	43	157921	10.164	ppbv	98
16) 1,3-Butadiene	1.609	39	76015	10.513	ppbv	99
17) tert-Butyl alcohol	2.040	59	177586	9.136	ppbv	100
18) 1,1-Dichloroethene	2.033	96	64716	9.795	ppbv	92
19) Isopropyl Alcohol	1.884	45	90039	10.088	ppbv	96
20) Methylene Chloride	2.059	84	64336	10.947	ppbv	97
21) Allyl Chloride	2.095	41	113949	10.150	ppbv	97
22) trans-1,2-Dichloroethene	2.341	96	80485	10.449	ppbv	90
23) Vinyl Acetate	2.460	43	94433	8.644	ppbv	99
24) 1,1-Dichloroethane	2.409	63	154561	10.784	ppbv	99
25) Ethyl Acetate	2.836	43	552236	8.880	ppbv	99
26) Hexane	2.823	57	224625	8.934	ppbv	98
27) Carbon Disulfide	2.150	76	186073	10.918	ppbv	99
28) Methyl tert-Butyl Ether	2.438	73	106326	8.494	ppbv	99
29) Chloroform	2.849	83	296552	8.764	ppbv	99
30) Cyclohexane	3.855	84	163459	8.010	ppbv	95
31) cis-1,2-Dichloroethene	2.719	61	193004	8.109	ppbv	98
32) 1,1,1-Trichloroethane	3.367	97	268630	8.184	ppbv	95
34) 2-Butanone	2.558	43	305355	9.323	ppbv	96
35) Carbon Tetrachloride	3.762	117	279849	9.653	ppbv	99
36) Benzene	3.655	78	399974	9.088	ppbv	95
37) 1,2-Dichloroethane	3.218	62	217321	8.906	ppbv	100
38) Trichloroethene	4.548	130	152158	8.466	ppbv	96
39) 1,2-Dichloropropane	4.315	63	150906	9.033	ppbv	96
40) 1,4-Dioxane	4.580	88	67340	8.830	ppbv #	99
41) Tetrahydrofuran	3.056	42	174452	9.014	ppbv	98
42) Bromodichloromethane	4.487	83	307764	9.361	ppbv	93
43) Methyl Methacrylate	4.881	69	145265	8.451	ppbv	96
44) 2,2,4-Trimethylpentane	4.635	57	717940	9.243	ppbv	98
45) t-1,3-Dichloropropene	6.412	75	135149	7.914	ppbv	95

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL031425\
Data File : VL042141.D
Acq On : 14 Mar 2025 08:39
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 14 23:16:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Wed Feb 26 01:08:36 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 03/17/2025
Supervised By :Mahesh Dadoda 03/17/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) cis-1,3-Dichloropropene	5.603	75	183303	8.295	ppbv		98
47) 1,1,2-Trichloroethane	6.581	97	154904	9.134	ppbv		96
48) Dibromochloromethane	7.387	129	239456	9.015	ppbv		98
49) Bromoform	9.484	173	213827	9.270	ppbv		99
50) 4-Methyl-2-Pentanone	5.755	43	408504	9.644	ppbv		96
51) 2-Hexanone	7.438	43	316988	10.872	ppbv	#	98
52) Tetrachloroethene	8.225	164	129959	8.625	ppbv		98
53) Toluene	6.933	91	423735	8.614	ppbv		98
54) 1,2-Dibromoethane	7.652	107	201881	8.805	ppbv		90
56) 1,1,1,2-Tetrachloroethane	8.924	131	192287	9.492	ppbv		100
57) Chlorobenzene	8.921	112	344848	9.280	ppbv		99
58) Ethyl Benzene	9.354	91	572580	8.675	ppbv		100
59) m/p-Xylene	9.552	91	960961m	18.294	ppbv		
60) o-Xylene	9.963	91	485048	9.185	ppbv		99
61) Styrene	9.872	104	211885	8.535	ppbv		99
62) Isopropylbenzene	10.539	105	718498	9.085	ppbv		99
63) 1,1,2,2-Tetrachloroethane	9.963	83	341487	9.820	ppbv		100
64) n-propylbenzene	10.989	120	196285	9.462	ppbv		100
65) tert-Butylbenzene	11.533	119	655886	9.113	ppbv		98
66) Benzyl Chloride	11.617	91	45818	8.342	ppbv		97
67) sec-Butylbenzene	11.769	105	924266	8.979	ppbv		98
69) p-Isopropyltoluene	11.928	119	753153	9.197	ppbv		99
70) n-Butylbenzene	12.280	91	771737	9.232	ppbv		100
71) 2-Chlorotoluene	10.902	91	537863	8.822	ppbv		100
72) 4-Ethyltoluene	11.125	105	585082	9.074	ppbv		99
73) 1,3,5-Trimethylbenzene	11.203	105	494157	8.836	ppbv		98
74) 1,2,4-Trimethylbenzene	11.536	105	560827	8.905	ppbv		92
75) 1,3-Dichlorobenzene	11.607	146	336601	9.287	ppbv		98
76) 1,4-Dichlorobenzene	11.672	146	327927	9.113	ppbv		99
77) 1,2-Dichlorobenzene	11.947	146	330229	9.389	ppbv		99
78) Hexachloro-1,3-Butadiene	13.883	225	230108	8.408	ppbv		99
79) Naphthalene	13.514	128	481899	11.160	ppbv		100
80) Naphthalene,2-methyl-	14.459	142	151227	12.797	ppbv		99
81) 1,2,4-Trichlorobenzene	13.439	180	219258	9.111	ppbv		99

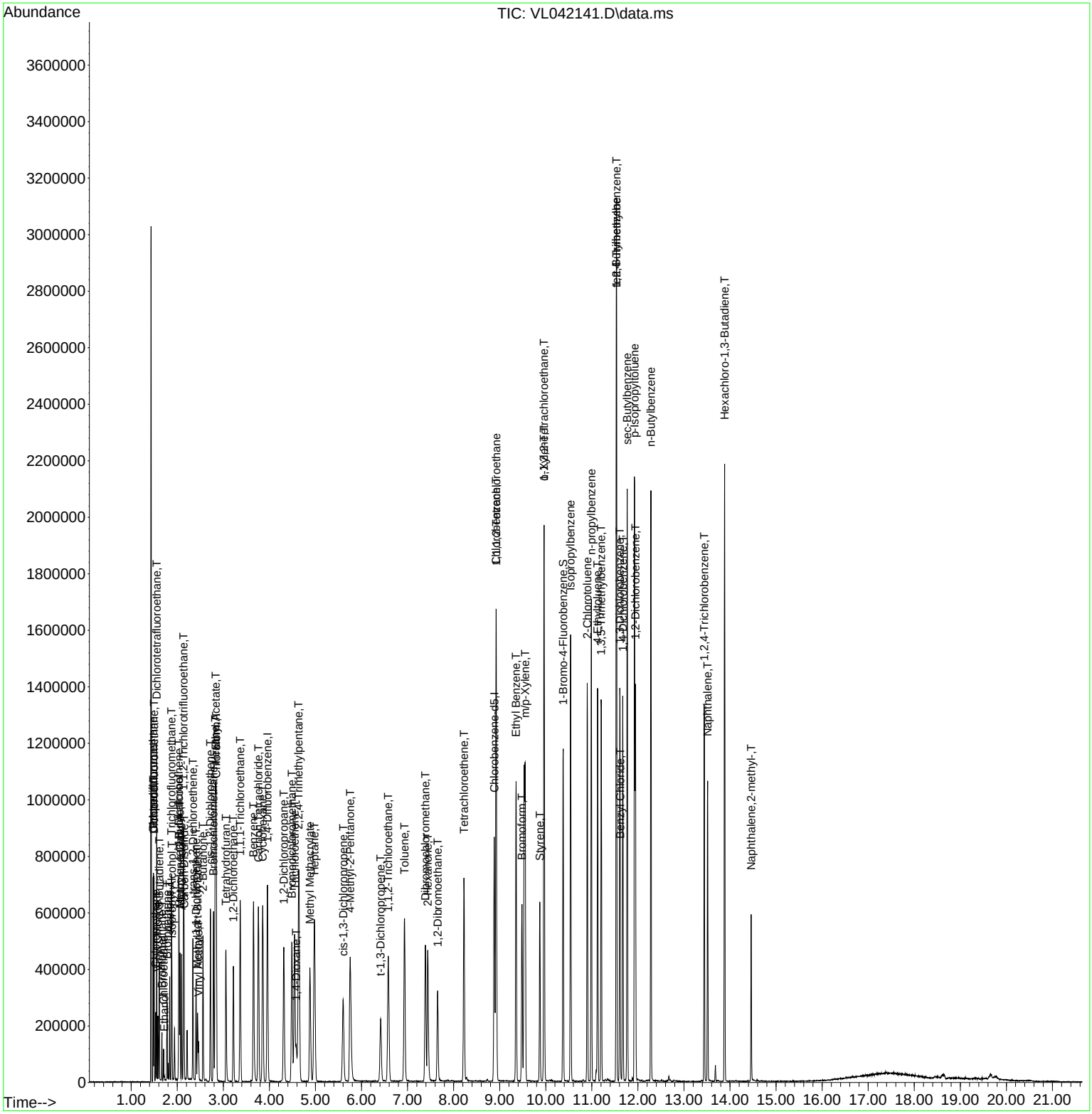
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL031425\
Data File : VL042141.D
Acq On : 14 Mar 2025 08:39
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 14 23:16:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Wed Feb 26 01:08:36 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 03/17/2025
Supervised By :Mahesh Dadoda 03/17/2025



Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL031425\
Data File : VL042141.D
Acq On : 14 Mar 2025 08:39
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
LabSampleId :
VSTDCCC010

Quant Time: Mar 14 23:16:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Feb 26 01:08:36 2025
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Bromochloromethane	1.000	1.000	0.0	109	-0.02
2	T	Dichlorodifluoromethane	1.040	1.091	-4.9	126	0.00
3		Chlorodifluoromethane	1.453	1.297	10.7	108	0.00
4		Chloromethane	0.385	0.413	-7.3	131	0.00
5	T	Vinyl Chloride	0.364	0.403	-10.7	131	0.00
6	T	Bromomethane	0.173	0.195	-12.7	133	0.00
7		Chloroethane	0.148	0.156	-5.4	126	0.00
8	T	Dichlorotetrafluoroethane	0.855	0.919	-7.5	129	0.00
9	T	Propene	0.592	0.545	7.9	114	0.00
10	T	Heptane	1.844	1.534	16.8	101	-0.03
11	T	Trichlorofluoromethane	1.042	1.153	-10.7	133	0.00
12	T	1,1,2-Trichlorotrifluoroeth	0.831	0.854	-2.8	134	0.00
13		Ethanol	0.038	0.034#	10.5	187#	0.00
14	T	Bromoethene	0.293	0.314	-7.2	130	0.00
15	T	Acetone	0.883	0.898	-1.7	137	0.00
16	T	1,3-Butadiene	0.411	0.432	-5.1	132	0.00
17		tert-Butyl alcohol	1.105	1.009	8.7	116	0.00
18	T	1,1-Dichloroethene	0.376	0.368	2.1	126	0.00
19	T	Isopropyl Alcohol	0.507	0.512	-1.0	133	0.00
20	T	Methylene Chloride	0.334	0.366	-9.6	153#	0.00
21	T	Allyl Chloride	0.638	0.648	-1.6	131	0.00
22	T	trans-1,2-Dichloroethene	0.438	0.457	-4.3	140	0.00
23	T	Vinyl Acetate	0.621	0.537	13.5	113	-0.01
24	T	1,1-Dichloroethane	0.815	0.878	-7.7	143	0.00
25	T	Ethyl Acetate	3.535	3.139	11.2	108	-0.02
26	T	Hexane	1.429	1.277	10.6	109	-0.02
27	T	Carbon Disulfide	0.969	1.058	-9.2	135	0.00
28	T	Methyl tert-Butyl Ether	0.711	0.604	15.0	126	-0.01
29	T	Chloroform	1.923	1.686	12.3	107	-0.01
30	T	Cyclohexane	1.160	0.929	19.9	94	-0.02
31	T	cis-1,2-Dichloroethene	1.353	1.097	18.9	97	-0.01
32	T	1,1,1-Trichloroethane	1.866	1.527	18.2	94	-0.02
33	I	1,4-Difluorobenzene	1.000	1.000	0.0	99	-0.02
34	T	2-Butanone	0.779	0.726	6.8	104	-0.01
35	T	Carbon Tetrachloride	0.690	0.666	3.5	101	-0.02
36	T	Benzene	1.047	0.951	9.2	98	-0.02
37	T	1,2-Dichloroethane	0.580	0.517	10.9	99	-0.02
38	T	Trichloroethene	0.427	0.362	15.2	95	-0.02
39	T	1,2-Dichloropropane	0.397	0.359	9.6	100	-0.02
40	T	1,4-Dioxane	0.181	0.160	11.6	97	-0.03
41	T	Tetrahydrofuran	0.460	0.415	9.8	99	-0.02
42	T	Bromodichloromethane	0.782	0.732	6.4	99	-0.03
43		Methyl Methacrylate	0.409	0.346	15.4	88	-0.03
44	T	2,2,4-Trimethylpentane	1.848	1.708	7.6	102	-0.03
45	T	t-1,3-Dichloropropene	0.406	0.321	20.9	81	-0.03
46	T	cis-1,3-Dichloropropene	0.526	0.436	17.1	84	-0.03
47	T	1,1,2-Trichloroethane	0.403	0.368	8.7	102	-0.03
48	T	Dibromochloromethane	0.632	0.570	9.8	95	-0.03

Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL031425\
Data File : VL042141.D
Acq On : 14 Mar 2025 08:39
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
LabSampleId :
VSTDCCC010

Quant Time: Mar 14 23:16:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Feb 26 01:08:36 2025
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49	T	Bromoform	0.549	0.509	7.3	96	-0.02
50	T	4-Methyl-2-Pentanone	1.008	0.972	3.6	95	-0.03
51	T	2-Hexanone	0.693	0.754	-8.8	90	-0.03
52	T	Tetrachloroethene	0.358	0.309	13.7	94	-0.02
53	T	Toluene	1.170	1.008	13.8	92	-0.03
54	T	1,2-Dibromoethane	0.545	0.480	11.9	95	-0.03
55	I	Chlorobenzene-d5	1.000	1.000	0.0	96	-0.02
56		1,1,1,2-Tetrachloroethane	0.565	0.536	5.1	102	-0.02
57	T	Chlorobenzene	1.037	0.962	7.2	101	-0.02
58	T	Ethyl Benzene	1.842	1.598	13.2	90	-0.02
59	T	m/p-Xylene	1.466	1.341	8.5	97	0.00
60	T	o-Xylene	1.473	1.353	8.1	98	-0.02
61	T	Styrene	0.693	0.591	14.7	86	-0.02
62		Isopropylbenzene	2.207	2.005	9.2	98	-0.02
63	T	1,1,2,2-Tetrachloroethane	0.970	0.953	1.8	108	-0.02
64		n-propylbenzene	0.579	0.548	5.4	100	-0.02
65		tert-Butylbenzene	2.008	1.830	8.9	101	-0.01
66	T	Benzyl Chloride	0.153	0.128	16.3	80	-0.01
67		sec-Butylbenzene	2.872	2.579	10.2	100	-0.01
68	S	1-Bromo-4-Fluorobenzene	0.769	0.818	-6.4	103	-0.02
69		p-Isopropyltoluene	2.285	2.101	8.1	100	-0.01
70		n-Butylbenzene	2.332	2.153	7.7	100	-0.02
71		2-Chlorotoluene	1.701	1.501	11.8	95	-0.02
72	T	4-Ethyltoluene	1.799	1.632	9.3	96	-0.02
73	T	1,3,5-Trimethylbenzene	1.560	1.379	11.6	96	-0.02
74	T	1,2,4-Trimethylbenzene	1.757	1.565	10.9	102	-0.02
75	T	1,3-Dichlorobenzene	1.011	0.939	7.1	104	-0.02
76	T	1,4-Dichlorobenzene	1.004	0.915	8.9	102	-0.01
77	T	1,2-Dichlorobenzene	0.981	0.921	6.1	106	-0.02
78	T	Hexachloro-1,3-Butadiene	0.764	0.642	16.0	97	-0.01
79	T	Naphthalene	1.205	1.345	-11.6	94	-0.01
80	T	Naphthalene,2-methyl-	0.330	0.422	-27.9	72	-0.01
81	T	1,2,4-Trichlorobenzene	0.671	0.612	8.8	91	-0.02

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL031425\
Data File : VL042142.D
Acq On : 14 Mar 2025 09:23
Operator : SY/MD
Sample : VL0314ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0314ABL01

Quant Time: Mar 14 23:17:29 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Feb 26 01:08:36 2025
Response via : Initial Calibration

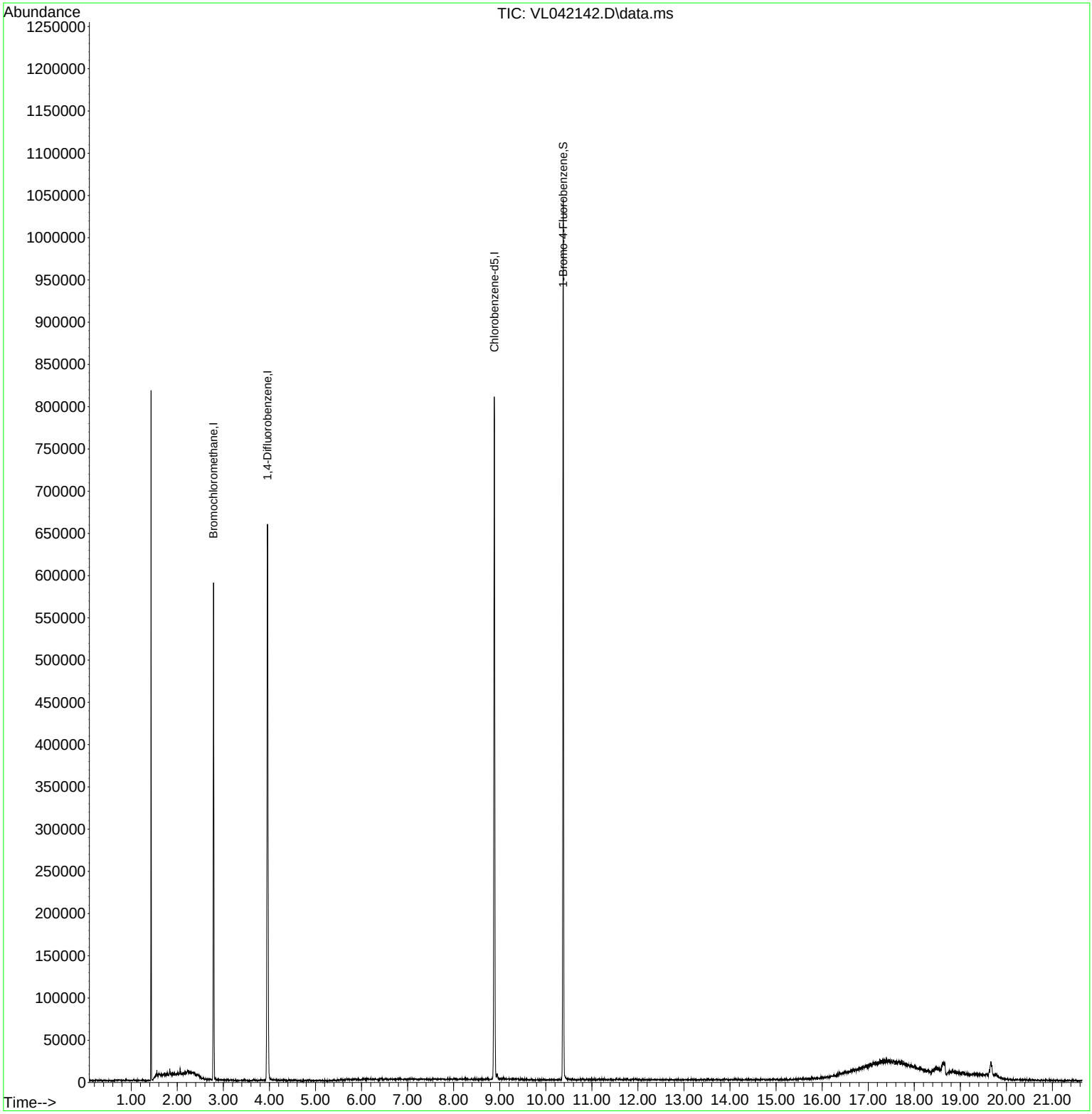
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.787	49	167826	10.000	ppbv	-0.01
33) 1,4-Difluorobenzene	3.958	114	392046	10.000	ppbv	-0.02
55) Chlorobenzene-d5	8.881	117	329113	10.000	ppbv	-0.02
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	250856	9.907	ppbv	-0.02
Spiked Amount 10.000	Range 65 - 135		Recovery = 99.100%			
Target Compounds						Qvalue

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL031425\
Data File : VL042142.D
Acq On : 14 Mar 2025 09:23
Operator : SY/MD
Sample : VL0314ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0314ABL01

Quant Time: Mar 14 23:17:29 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Feb 26 01:08:36 2025
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL031425\
Data File : VL042143.D
Acq On : 14 Mar 2025 10:09
Operator : SY/MD
Sample : QC031025 CAN 10267
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
QC031025 CAN 10267

Quant Time: Mar 14 23:17:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Feb 26 01:08:36 2025
Response via : Initial Calibration

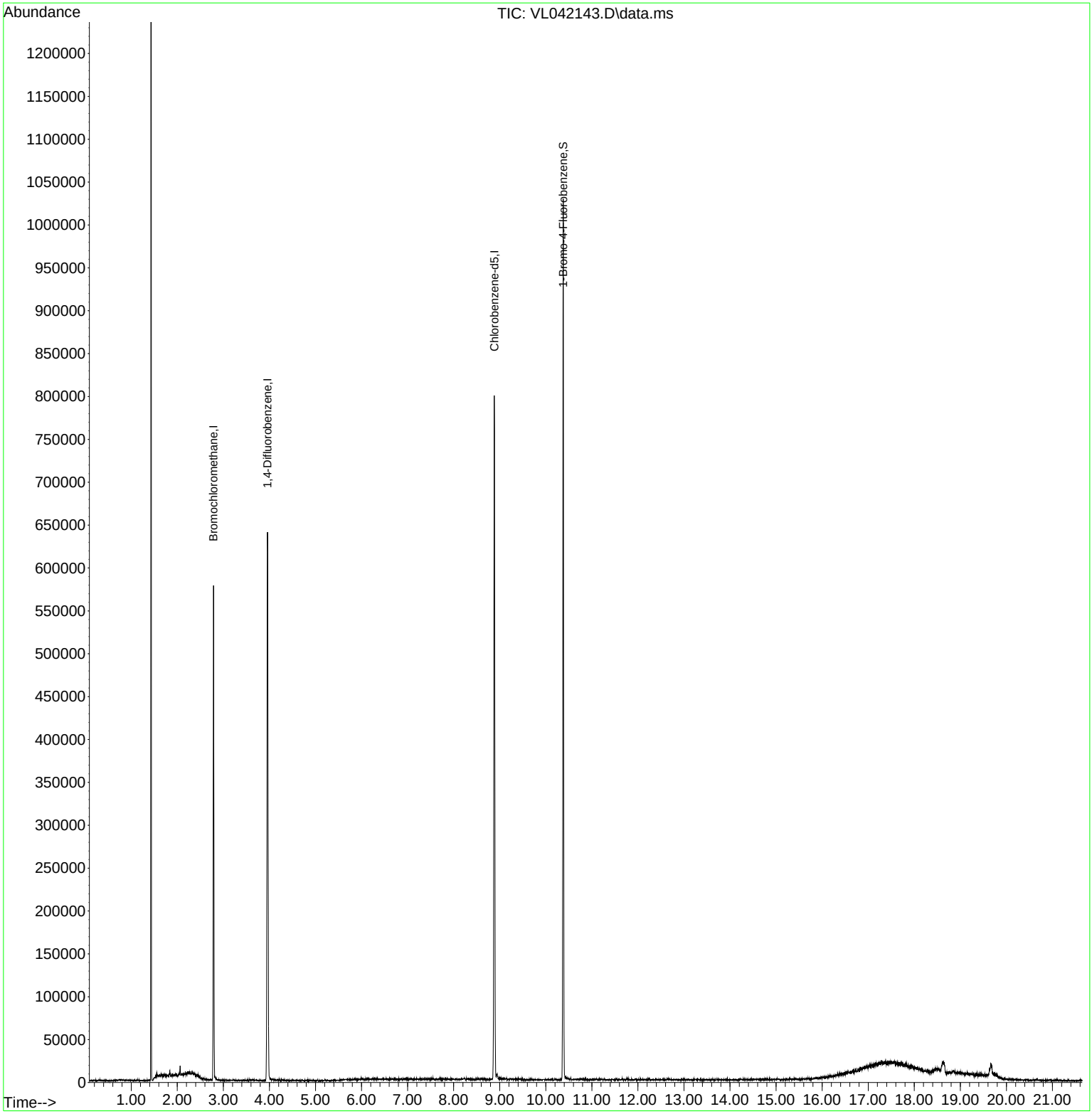
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.787	49	165110	10.000	ppbv	-0.01
33) 1,4-Difluorobenzene	3.958	114	377773	10.000	ppbv	-0.02
55) Chlorobenzene-d5	8.881	117	315162	10.000	ppbv	-0.02
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	245153	10.111	ppbv	-0.02
Spiked Amount 10.000	Range 65 - 135		Recovery = 101.100%			
Target Compounds						Qvalue

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL031425\
Data File : VL042143.D
Acq On : 14 Mar 2025 10:09
Operator : SY/MD
Sample : QC031025 CAN 10267
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
QC031025 CAN 10267

Quant Time: Mar 14 23:17:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Feb 26 01:08:36 2025
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL031425\
Data File : VL042146.D
Acq On : 14 Mar 2025 12:27
Operator : SY/MD
Sample : VL0314ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 14 23:18:44 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Wed Feb 26 01:08:36 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VL0314ABS01

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 03/17/2025
Supervised By :Mahesh Dadoda 03/17/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.790	49	163026	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	381842	10.000	ppbv	-0.02
55) Chlorobenzene-d5	8.885	117	325786	10.000	ppbv	-0.02
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.380	95	276407	11.028	ppbv	-0.01
Spiked Amount 10.000	Range 65 - 135		Recovery = 110.300%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	183411	10.819	ppbv	99
3) Chlorodifluoromethane	1.476	51	224569	9.478	ppbv	99
4) Chloromethane	1.534	50	72105	11.502	ppbv	95
5) Vinyl Chloride	1.580	62	69189	11.667	ppbv	98
6) Bromomethane	1.667	94	31681	11.220	ppbv	96
7) Chloroethane	1.706	64	27615	11.461	ppbv	92
8) Dichlorotetrafluoroethane	1.554	85	159489	11.444	ppbv	99
9) Propene	1.486	41	85053	8.811	ppbv	99
10) Heptane	4.985	43	257569	8.570	ppbv	99
11) Trichlorofluoromethane	1.877	101	201423	11.858	ppbv	99
12) 1,1,2-Trichlorotrifluo...	2.140	101	144035	10.630	ppbv	97
13) Ethanol	1.722	45	5622	9.175	ppbv	97
14) Bromoethene	1.784	108	55222	11.541	ppbv	97
15) Acetone	1.835	43	154842	10.755	ppbv	98
16) 1,3-Butadiene	1.609	39	74468	11.115	ppbv	99
17) tert-Butyl alcohol	2.042	59	168993	9.382	ppbv	96
18) 1,1-Dichloroethene	2.036	96	64700	10.568	ppbv	97
19) Isopropyl Alcohol	1.887	45	85819	10.377	ppbv #	35
20) Methylene Chloride	2.062	84	64018	11.756	ppbv	96
21) Allyl Chloride	2.098	41	110336	10.607	ppbv	97
22) trans-1,2-Dichloroethene	2.340	96	72399	10.144	ppbv	99
23) Vinyl Acetate	2.463	43	87289	8.623	ppbv #	94
24) 1,1-Dichloroethane	2.411	63	140322	10.566	ppbv	99
25) Ethyl Acetate	2.839	43	528086	9.164	ppbv	100
26) Hexane	2.826	57	215050	9.231	ppbv	98
27) Carbon Disulfide	2.153	76	170348	10.787	ppbv	100
28) Methyl tert-Butyl Ether	2.444	73	91925	7.925	ppbv	98
29) Chloroform	2.852	83	284422	9.071	ppbv	98
30) Cyclohexane	3.861	84	155818	8.240	ppbv	94
31) cis-1,2-Dichloroethene	2.722	61	180243	8.173	ppbv	99
32) 1,1,1-Trichloroethane	3.369	97	256963	8.448	ppbv	95
34) 2-Butanone	2.560	43	289331	9.726	ppbv	95
35) Carbon Tetrachloride	3.764	117	267662	10.165	ppbv	97
36) Benzene	3.661	78	376328	9.415	ppbv	99
37) 1,2-Dichloroethane	3.221	62	209658	9.460	ppbv	99
38) Trichloroethene	4.554	130	143571	8.796	ppbv	94
39) 1,2-Dichloropropane	4.318	63	142402	9.386	ppbv	97
40) 1,4-Dioxane	4.590	88	65583	9.469	ppbv #	98
41) Tetrahydrofuran	3.059	42	161433	9.184	ppbv	97
42) Bromodichloromethane	4.493	83	289116	9.682	ppbv	99
43) Methyl Methacrylate	4.884	69	133935	8.580	ppbv	95
44) 2,2,4-Trimethylpentane	4.645	57	687261	9.742	ppbv	98
45) t-1,3-Dichloropropene	6.418	75	122213	7.880	ppbv	97

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL031425\
Data File : VL042146.D
Acq On : 14 Mar 2025 12:27
Operator : SY/MD
Sample : VL0314ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 14 23:18:44 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Wed Feb 26 01:08:36 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VL0314ABS01

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 03/17/2025
Supervised By :Mahesh Dadoda 03/17/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) cis-1,3-Dichloropropene	5.606	75	173008	8.620	ppbv		98
47) 1,1,2-Trichloroethane	6.590	97	148902	9.667	ppbv		96
48) Dibromochloromethane	7.393	129	230834	9.569	ppbv		98
49) Bromoform	9.487	173	207997	9.928	ppbv		98
50) 4-Methyl-2-Pentanone	5.761	43	388572	10.100	ppbv		95
51) 2-Hexanone	7.444	43	302871	11.438	ppbv	#	97
52) Tetrachloroethene	8.228	164	123920	9.056	ppbv		98
53) Toluene	6.940	91	392631	8.789	ppbv		98
54) 1,2-Dibromoethane	7.655	107	196312	9.427	ppbv		97
56) 1,1,1,2-Tetrachloroethane	8.930	131	188895	10.258	ppbv		99
57) Chlorobenzene	8.924	112	335300	9.927	ppbv		98
58) Ethyl Benzene	9.357	91	553145	9.220	ppbv		99
59) m/p-Xylene	9.555	91	938027m	19.646	ppbv		
60) o-Xylene	9.966	91	472738	9.849	ppbv		99
61) Styrene	9.875	104	200572	8.888	ppbv		99
62) Isopropylbenzene	10.542	105	698706	9.720	ppbv		98
63) 1,1,2,2-Tetrachloroethane	9.966	83	335051	10.599	ppbv		99
64) n-propylbenzene	10.992	120	189167	10.032	ppbv		99
65) tert-Butylbenzene	11.536	119	645167	9.861	ppbv		99
66) Benzyl Chloride	11.620	91	46836	9.382	ppbv		97
67) sec-Butylbenzene	11.772	105	930077	9.940	ppbv		99
69) p-Isopropyltoluene	11.930	119	755360	10.147	ppbv		99
70) n-Butylbenzene	12.283	91	760425	10.007	ppbv		100
71) 2-Chlorotoluene	10.904	91	519669	9.378	ppbv		99
72) 4-Ethyltoluene	11.128	105	580446	9.904	ppbv		99
73) 1,3,5-Trimethylbenzene	11.209	105	489177	9.623	ppbv		99
74) 1,2,4-Trimethylbenzene	11.542	105	558174	9.751	ppbv		94
75) 1,3-Dichlorobenzene	11.610	146	329807	10.011	ppbv		100
76) 1,4-Dichlorobenzene	11.675	146	327949	10.026	ppbv		100
77) 1,2-Dichlorobenzene	11.950	146	329758	10.314	ppbv		100
78) Hexachloro-1,3-Butadiene	13.885	225	227664	9.152	ppbv		99
79) Naphthalene	13.516	128	477761	12.172	ppbv		99
80) Naphthalene,2-methyl-	14.461	142	148881	13.860	ppbv		100
81) 1,2,4-Trichlorobenzene	13.445	180	217204	9.930	ppbv		100

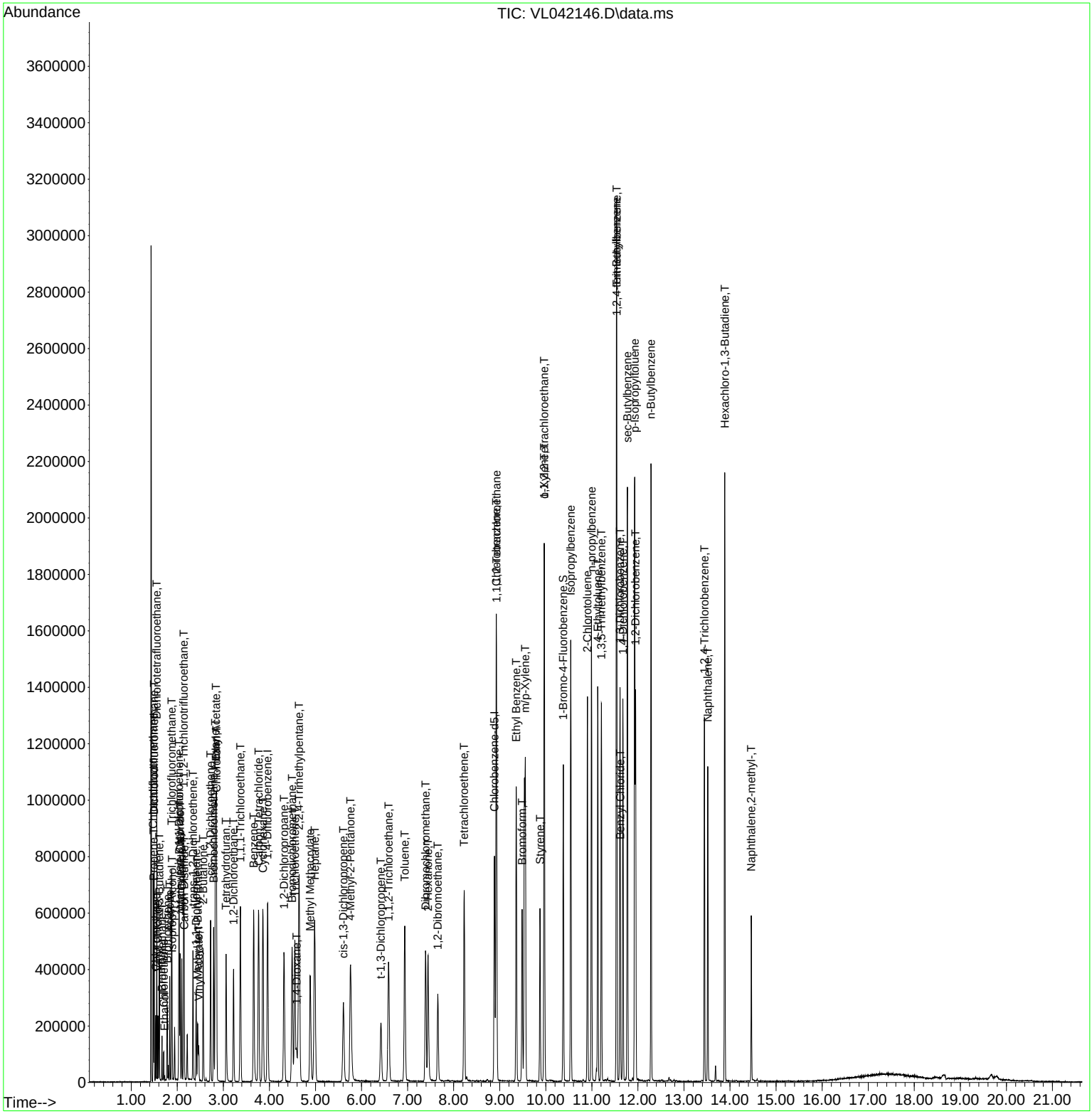
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL031425\
Data File : VL042146.D
Acq On : 14 Mar 2025 12:27
Operator : SY/MD
Sample : VL0314ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 14 23:18:44 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Wed Feb 26 01:08:36 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VL0314ABS01

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 03/17/2025
Supervised By :Mahesh Dadoda 03/17/2025



284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QCBatch ID # VL010925

Review By	Mahesh Dadoda	Review On	1/10/2025 7:23:31 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	1/10/2025 7:26:28 AM		
SubDirectory	VL010925	HP Acquire Method	TO15AIR.M	HP Processing Method	VL010925AIR.M

STD. NAME	STD REF.#
Tune/Reschk	AP2570
Initial Calibration Stds	AP2566,AP2567,AP2568
CCC	AP2566
Internal Standard/PEM	AP2570
ICV/I.BLK	AO2564
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VL041857.D	09 Jan 2025 09:48	SY/MD	Ok
2	VSTDICC0.5	VL041858.D	09 Jan 2025 10:33	SY/MD	Not Ok
3	VSTDICCC010	VL041859.D	09 Jan 2025 11:19	SY/MD	Ok,M
4	VSTDICC002	VL041860.D	09 Jan 2025 11:52	SY/MD	Ok,M
5	VSTDICC001	VL041861.D	09 Jan 2025 12:22	SY/MD	Ok,M
6	VSTDICC0.5	VL041862.D	09 Jan 2025 12:53	SY/MD	Ok,M
7	VSTDICC0.1	VL041863.D	09 Jan 2025 13:24	SY/MD	Ok,M
8	VSTDICC0.03	VL041864.D	09 Jan 2025 13:54	SY/MD	Ok,M
9	VSTDICC015	VL041865.D	09 Jan 2025 14:27	SY/MD	Ok,M
10	VSTDICV010	VL041866.D	09 Jan 2025 15:15	SY/MD	Ok,M
11	VL0109ABL01	VL041867.D	09 Jan 2025 16:00	SY/MD	Ok
12	VL0109ABL02	VL041868.D	09 Jan 2025 16:31	SY/MD	Ok
13	VL0109ABL03	VL041869.D	09 Jan 2025 17:01	SY/MD	Ok
14	VL0109ABS01	VL041870.D	09 Jan 2025 17:32	SY/MD	Ok,M
15	VIBLK	VL041871.D	09 Jan 2025 18:02	SY/MD	Ok
16	Q1037-01	VL041872.D	09 Jan 2025 18:37	SY/MD	Ok,M
17	Q1037-02	VL041873.D	09 Jan 2025 19:10	SY/MD	Ok,M
18	Q1037-03	VL041874.D	09 Jan 2025 19:43	SY/MD	Ok,M
19	Q1037-03DUP	VL041875.D	09 Jan 2025 20:16	SY/MD	Ok,M
20	QC010725 CAN 10601	VL041876.D	09 Jan 2025 20:46	SY/MD	Ok
21	MDL 0.4	VL041877.D	09 Jan 2025 21:16	SY/MD	Ok,M

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QCBatch ID # VL010925

Review By	Mahesh Dadoda	Review On	1/10/2025 7:23:31 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	1/10/2025 7:26:28 AM		
SubDirectory	VL010925	HP Acquire Method	TO15AIR.M	HP Processing Method	VL010925AIR.M

STD. NAME	STD REF.#
Tune/Reschk	AP2570
Initial Calibration Stds	AP2566,AP2567,AP2568
CCC	AP2566
Internal Standard/PEM	AP2570
ICV/I.BLK	AO2564
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	MDL 0.4	VL041878.D	09 Jan 2025 21:46	SY/MD	Ok,M
23	MDL 0.4	VL041879.D	09 Jan 2025 22:17	SY/MD	Ok,M
24	MDL 0.1	VL041880.D	09 Jan 2025 22:47	SY/MD	Ok,M
25	MDL 0.1	VL041881.D	09 Jan 2025 23:17	SY/MD	Ok,M
26	MDL 0.1	VL041882.D	09 Jan 2025 23:47	SY/MD	Ok,M
27	MDL 0.03	VL041883.D	10 Jan 2025 00:17	SY/MD	Ok,M
28	MDL 0.03	VL041884.D	10 Jan 2025 00:47	SY/MD	Ok,M
29	MDL 0.03	VL041885.D	10 Jan 2025 01:18	SY/MD	Ok,M
30	VSTDCCC010	VL041886.D	10 Jan 2025 01:48	SY/MD	Ok,M

M : Manual Integration

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QCBatch ID # VL011425

Review By	Mahesh Dadoda	Review On	1/15/2025 12:59:33 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	1/15/2025 1:00:29 PM		
SubDirectory	VL011425	HP Acquire Method	TO15AIR.M	HP Processing Method	VL011425AIR.M

STD. NAME	STD REF.#
Tune/Reschk	AP2569
Initial Calibration Stds	AP2571,AP2572,AP2573
CCC	AP2571
Internal Standard/PEM	AP2569
ICV/I.BLK	AP2574,MDL,AP2572,AP2573
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VL041887.D	14 Jan 2025 07:50	SY/MD	Ok
2	VSTDICC0.5	VL041888.D	14 Jan 2025 11:40	SY/MD	Not Ok
3	VSTDICCC010	VL041889.D	14 Jan 2025 12:55	SY/MD	Ok,M
4	VSTDICC002	VL041890.D	14 Jan 2025 13:28	SY/MD	Ok,M
5	VSTDICC001	VL041891.D	14 Jan 2025 13:59	SY/MD	Ok,M
6	VSTDICC0.5	VL041892.D	14 Jan 2025 14:30	SY/MD	Ok,M
7	VSTDICC0.1	VL041893.D	14 Jan 2025 15:01	SY/MD	Ok,M
8	VSTDICC0.03	VL041894.D	14 Jan 2025 15:32	SY/MD	Ok,M
9	VSTDICC015	VL041895.D	14 Jan 2025 16:05	SY/MD	Ok,M
10	VSTDICV010	VL041896.D	14 Jan 2025 17:33	SY/MD	Ok,M
11	VL0114ABL01	VL041897.D	14 Jan 2025 18:34	SY/MD	Ok
12	VL0114ABL02	VL041898.D	14 Jan 2025 19:05	SY/MD	Ok
13	VL0114ABS01	VL041899.D	14 Jan 2025 19:36	SY/MD	Ok,M
14	VIBLK	VL041900.D	14 Jan 2025 20:07	SY/MD	Ok
15	Q1073-04	VL041901.D	14 Jan 2025 20:40	SY/MD	Ok,M
16	Q1073-04DUP	VL041902.D	14 Jan 2025 21:14	SY/MD	Ok,M
17	Q1073-05	VL041903.D	14 Jan 2025 21:47	SY/MD	Ok,M
18	Q1073-06	VL041904.D	14 Jan 2025 22:21	SY/MD	Ok,M
19	Q1073-01	VL041905.D	14 Jan 2025 22:51	SY/MD	Ok,M
20	Q1073-02	VL041906.D	14 Jan 2025 23:22	SY/MD	Ok,M
21	Q1073-03	VL041907.D	14 Jan 2025 23:52	SY/MD	Ok,M

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QCBatch ID # VL011425

Review By	Mahesh Dadoda	Review On	1/15/2025 12:59:33 PM				
Supervise By	Semsettin Yesilyurt	Supervise On	1/15/2025 1:00:29 PM				
SubDirectory	VL011425	HP Acquire Method	TO15AIR.M	HP Processing Method	VL011425AIR.M		

STD. NAME	STD REF.#
Tune/Reschk	AP2569
Initial Calibration Stds	AP2571,AP2572,AP2573
CCC	AP2571
Internal Standard/PEM	AP2569
ICV/I.BLK	AP2574,MDL,AP2572,AP2573
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	VIBLK	VL041908.D	15 Jan 2025 00:22	SY/MD	Ok
23	MDL 0.4	VL041909.D	15 Jan 2025 00:52	SY/MD	Ok,M
24	MDL 0.4	VL041910.D	15 Jan 2025 01:23	SY/MD	Ok,M
25	MDL 0.1	VL041911.D	15 Jan 2025 01:53	SY/MD	Ok,M
26	MDL 0.1	VL041912.D	15 Jan 2025 02:23	SY/MD	Ok,M
27	MDL 0.03	VL041913.D	15 Jan 2025 02:53	SY/MD	Ok,M
28	MDL 0.03	VL041914.D	15 Jan 2025 03:23	SY/MD	Ok,M
29	VSTDCCC010	VL041915.D	15 Jan 2025 08:37	SY/MD	Not Ok

M : Manual Integration

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QCBatch ID # VL020325

Review By	Semsettin Yesilyurt	Review On	2/4/2025 9:24:56 AM				
Supervise By	Mahesh Dadoda	Supervise On	2/4/2025 3:44:53 PM				
SubDirectory	VL020325	HP Acquire Method	TO15AIR.M	HP Processing Method	VL011425AIR.M		

STD. NAME	STD REF.#
Tune/Reschk	AP2569
Initial Calibration Stds	AP2571,AP2572,AP2573
CCC	AP2571
Internal Standard/PEM	AP2569
ICV/I.BLK	AP2574
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VL041957.D	03 Feb 2025 09:47	SY/MD	Ok
2	VSTDCCC010	VL041958.D	03 Feb 2025 10:48	SY/MD	Ok,M
3	VL0203ABL01	VL041959.D	03 Feb 2025 11:34	SY/MD	Ok
4	VL0203ABL02	VL041960.D	03 Feb 2025 12:05	SY/MD	Ok
5	VL0203ABS01	VL041961.D	03 Feb 2025 12:57	SY/MD	Ok,M
6	Q1222-01	VL041962.D	03 Feb 2025 13:57	SY/MD	Ok,M
7	Q1222-01DL	VL041963.D	03 Feb 2025 14:28	SY/MD	Not Ok
8	Q1256-01	VL041964.D	03 Feb 2025 14:59	SY/MD	Ok,M
9	Q1256-01DL	VL041965.D	03 Feb 2025 15:30	SY/MD	Not Ok
10	QC012825 CAN 10439	VL041966.D	03 Feb 2025 16:02	SY/MD	Ok
11	Q1222-02	VL041967.D	03 Feb 2025 16:35	SY/MD	Ok,M
12	Q1222-02DUP	VL041968.D	03 Feb 2025 17:08	SY/MD	Ok,M
13	Q1222-03	VL041969.D	03 Feb 2025 17:41	SY/MD	Ok,M
14	Q1256-02	VL041970.D	03 Feb 2025 18:15	SY/MD	Ok,M
15	Q1168-14 0.03	VL041971.D	03 Feb 2025 21:01	SY/MD	Not Ok
16	Q1168-13 0.03	VL041972.D	03 Feb 2025 21:32	SY/MD	Ok,M
17	Q1168-14 0.03	VL041973.D	03 Feb 2025 22:13	SY/MD	Ok,M
18	QC020325 CAN 10599	VL041974.D	04 Feb 2025 08:03	SY/MD	Ok
19	VSTDCCC010	VL041975.D	04 Feb 2025 08:34	SY/MD	Ok,M

M : Manual Integration

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QCBatch ID # VL022525

Review By	Semsettin Yesilyurt	Review On	2/26/2025 8:27:25 AM				
Supervise By	Mahesh Dadoda	Supervise On	2/26/2025 1:45:21 PM				
SubDirectory	VL022525	HP Acquire Method	TO15AIR.M	HP Processing Method	VL022525AIR.M		

STD. NAME	STD REF.#
Tune/Reschk	AP2576
Initial Calibration Stds	AP2582,AP2584,AP2585
CCC	AP2582
Internal Standard/PEM	AP2576
ICV/I.BLK	AP2586
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VL042040.D	25 Feb 2025 07:56	SY/MD	Ok
2	VSTDICC010	VL042041.D	25 Feb 2025 08:56	SY/MD	Ok,M
3	VSTDICC002	VL042042.D	25 Feb 2025 09:29	SY/MD	Ok,M
4	VSTDICC001	VL042043.D	25 Feb 2025 10:00	SY/MD	Ok,M
5	VSTDICC0.5	VL042044.D	25 Feb 2025 10:31	SY/MD	Ok,M
6	VSTDICC0.1	VL042045.D	25 Feb 2025 11:03	SY/MD	Ok,M
7	VSTDICC0.03	VL042046.D	25 Feb 2025 11:34	SY/MD	Ok,M
8	VSTDICC015	VL042047.D	25 Feb 2025 12:07	SY/MD	Ok,M
9	VSTDICV010	VL042048.D	25 Feb 2025 13:15	SY/MD	Ok,M

M : Manual Integration

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QCBatch ID # VL022625

Review By	Semsettin Yesilyurt	Review On	2/27/2025 10:12:04 AM				
Supervise By	Mahesh Dadoda	Supervise On	2/27/2025 12:13:24 PM				
SubDirectory	VL022625	HP Acquire Method	TO15AIR.M		HP Processing Method	VL022525AIR.M	

STD. NAME	STD REF.#
Tune/Reschk	AP2576
Initial Calibration Stds	AP2582,AP2584,AP2585
CCC	AP2582
Internal Standard/PEM	AP2576
ICV/I.BLK	AP2586
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VL042049.D	26 Feb 2025 07:46	SY/MD	Ok
2	VSTDCCC010	VL042050.D	26 Feb 2025 08:38	SY/MD	Ok,M
3	VL0226ABL01	VL042051.D	26 Feb 2025 09:20	SY/MD	Ok
4	QC021725 CAN 10271	VL042052.D	26 Feb 2025 10:04	SY/MD	Ok
5	QC022525 CAN 10795	VL042053.D	26 Feb 2025 10:36	SY/MD	Ok
6	VL0226ABS01	VL042054.D	26 Feb 2025 11:07	SY/MD	Ok,M
7	Q1419-02	VL042055.D	26 Feb 2025 11:40	SY/MD	Ok,M
8	Q1430-05	VL042056.D	26 Feb 2025 12:14	SY/MD	Ok,M
9	Q1430-05DUP	VL042057.D	26 Feb 2025 12:48	SY/MD	Ok,M
10	Q1430-06	VL042058.D	26 Feb 2025 13:21	SY/MD	Ok,M
11	Q1430-06DL	VL042059.D	26 Feb 2025 13:52	SY/MD	Not Ok
12	Q1419-01	VL042060.D	26 Feb 2025 14:24	SY/MD	Dilution
13	Q1419-01DL	VL042061.D	26 Feb 2025 14:55	SY/MD	Not Ok
14	Q1419-01DL	VL042062.D	26 Feb 2025 15:27	SY/MD	Ok,M
15	Q1419-01DL2	VL042063.D	26 Feb 2025 15:58	SY/MD	Not Ok
16	VSTDCCC010	VL042064.D	26 Feb 2025 16:29	SY/MD	Ok,M

M : Manual Integration

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QCBatch ID # VL031425

Review By	Semsettin Yesilyurt	Review On	3/17/2025 8:36:35 AM				
Supervise By	Mahesh Dadoda	Supervise On	3/17/2025 1:46:41 PM				
SubDirectory	VL031425	HP Acquire Method	TO15AIR.M	HP Processing Method	VL022525AIR.M		

STD. NAME	STD REF.#
Tune/Reschk	AP2588
Initial Calibration Stds	AP2582,AP2584,AP2585
CCC	AP2582
Internal Standard/PEM	AP2588
ICV/I.BLK	AP2586
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VL042140.D	14 Mar 2025 07:56	SY/MD	Ok
2	VSTDCCC010	VL042141.D	14 Mar 2025 08:39	SY/MD	Ok,M
3	VL0314ABL01	VL042142.D	14 Mar 2025 09:23	SY/MD	Ok
4	QC031025 CAN 10267	VL042143.D	14 Mar 2025 10:09	SY/MD	Ok
5	QC031225 CAN 10300	VL042144.D	14 Mar 2025 10:40	SY/MD	Not Ok
6	QC031325 CAN 10266	VL042145.D	14 Mar 2025 11:11	SY/MD	Ok
7	VL0314ABS01	VL042146.D	14 Mar 2025 12:27	SY/MD	Ok,M
8	QC031225 CAN 10300	VL042147.D	14 Mar 2025 15:56	SY/MD	Ok
9	QC031225 CAN 10300	VL042148.D	14 Mar 2025 16:29	SY/MD	Not Ok

M : Manual Integration

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042349.D
Acq On : 17 Apr 2025 09:44
Operator : SY/MD
Sample : VSTDICCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Quant Time: Apr 18 01:25:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Apr 18 01:24:29 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.787	49	125455	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	366544	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.882	117	338126	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	281013	10.114	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 101.100%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	207962	9.382	ppbv	100
3) Chlorodifluoromethane	1.476	51	197334	9.350	ppbv	100
4) Chloromethane	1.531	50	81843	9.330	ppbv	100
5) Vinyl Chloride	1.580	62	80068	8.385	ppbv	100
6) Bromomethane	1.667	94	38128	9.219	ppbv	100
7) Chloroethane	1.703	64	31705	9.182	ppbv	100
8) Dichlorotetrafluoroethane	1.554	85	179696	9.442	ppbv	100
9) Propene	1.483	41	86530	9.002	ppbv	100
10) Heptane	4.978	43	236341	9.138	ppbv	100
11) Trichlorofluoromethane	1.877	101	196596	9.327	ppbv	100
12) 1,1,2-Trichlorotrifluo...	2.136	101	160682	9.323	ppbv	100
13) Ethanol	1.719	45	4439	5.651	ppbv	100
14) Bromoethene	1.780	108	61493	9.466	ppbv	100
15) Acetone	1.835	43	158490	7.717	ppbv	100
16) 1,3-Butadiene	1.609	39	81688	8.470	ppbv	100
17) tert-Butyl alcohol	2.039	59	226280	8.891	ppbv	100
18) 1,1-Dichloroethene	2.033	96	73186	8.833	ppbv	100
19) Isopropyl Alcohol	1.884	45	103029	9.031	ppbv	100
20) Methylene Chloride	2.062	84	62414	7.760	ppbv	100
21) Allyl Chloride	2.094	41	122115	8.611	ppbv	100
22) trans-1,2-Dichloroethene	2.340	96	83278	9.084	ppbv	100
23) Vinyl Acetate	2.460	43	69649	8.378	ppbv	100
24) 1,1-Dichloroethane	2.408	63	161102	9.251	ppbv	100
25) Ethyl Acetate	2.836	43	461315	9.110	ppbv	100
26) Hexane	2.826	57	178691	8.720	ppbv	100
27) Carbon Disulfide	2.149	76	209297	9.539	ppbv	100
28) Methyl tert-Butyl Ether	2.441	73	117924	8.783	ppbv	100
29) Chloroform	2.848	83	269088	9.290	ppbv	100
30) Cyclohexane	3.855	84	157035	9.517	ppbv	100
31) cis-1,2-Dichloroethene	2.719	61	183082	9.397	ppbv	100
32) 1,1,1-Trichloroethane	3.366	97	285336	9.187	ppbv	100
34) 2-Butanone	2.557	43	251704	8.683	ppbv	100
35) Carbon Tetrachloride	3.761	117	282402	8.513	ppbv	100
36) Benzene	3.654	78	367355	9.292	ppbv	100
37) 1,2-Dichloroethane	3.217	62	216999	9.145	ppbv	100
38) Trichloroethene	4.548	130	144767	8.352	ppbv	100
39) 1,2-Dichloropropane	4.311	63	135605	9.197	ppbv	100
40) 1,4-Dioxane	4.580	88	66662	8.348	ppbv #	100
41) Tetrahydrofuran	3.052	42	149905	8.950	ppbv	100
42) Bromodichloromethane	4.489	83	312268	9.456	ppbv	100
43) Methyl Methacrylate	4.881	69	157501	8.876	ppbv	100
44) 2,2,4-Trimethylpentane	4.642	57	626085	9.157	ppbv	100
45) t-1,3-Dichloropropene	6.415	75	168223	9.233	ppbv	100

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042349.D
Acq On : 17 Apr 2025 09:44
Operator : SY/MD
Sample : VSTDICCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Quant Time: Apr 18 01:25:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Apr 18 01:24:29 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) cis-1,3-Dichloropropene	5.600	75	208811	9.377	ppbv		100
47) 1,1,2-Trichloroethane	6.580	97	137898	9.181	ppbv		100
48) Dibromochloromethane	7.386	129	248954	9.388	ppbv		100
49) Bromoform	9.480	173	225706	9.734	ppbv		100
50) 4-Methyl-2-Pentanone	5.752	43	396548	8.215	ppbv		100
51) 2-Hexanone	7.435	43	327165	7.511	ppbv		100
52) Tetrachloroethene	8.225	164	130720	8.553	ppbv		100
53) Toluene	6.933	91	437258	9.216	ppbv		100
54) 1,2-Dibromoethane	7.652	107	197665	9.235	ppbv		100
56) 1,1,1,2-Tetrachloroethane	8.927	131	186041	9.091	ppbv		100
57) Chlorobenzene	8.920	112	323084	9.187	ppbv		100
58) Ethyl Benzene	9.354	91	619581	9.248	ppbv		100
59) m/p-Xylene	9.552	91	449222	8.299	ppbv	#	19
60) o-Xylene	9.963	91	487616	8.972	ppbv		100
61) Styrene	9.869	104	245487	9.464	ppbv		100
62) Isopropylbenzene	10.539	105	733788	9.197	ppbv		100
63) 1,1,2,2-Tetrachloroethane	9.963	83	295041	8.355	ppbv		100
64) n-propylbenzene	10.989	120	183390	9.144	ppbv		100
65) tert-Butylbenzene	11.532	119	644953	8.795	ppbv		100
66) Benzyl Chloride	11.617	91	83269	10.333	ppbv		100
67) sec-Butylbenzene	11.769	105	900074	8.824	ppbv		100
69) p-Isopropyltoluene	11.927	119	778987	8.790	ppbv		100
70) n-Butylbenzene	12.283	91	801364	8.682	ppbv		100
71) 2-Chlorotoluene	10.901	91	573039	9.157	ppbv		100
72) 4-Ethyltoluene	11.125	105	596757	8.982	ppbv		100
73) 1,3,5-Trimethylbenzene	11.205	105	512855	8.743	ppbv		100
74) 1,2,4-Trimethylbenzene	11.539	105	565064	8.248	ppbv		100
75) 1,3-Dichlorobenzene	11.607	146	320380	8.997	ppbv		100
76) 1,4-Dichlorobenzene	11.672	146	319089	8.915	ppbv		100
77) 1,2-Dichlorobenzene	11.947	146	305822	8.832	ppbv		100
78) Hexachloro-1,3-Butadiene	13.882	225	291833	8.346	ppbv		100
79) Naphthalene	13.513	128	677578	8.271	ppbv		100
80) Naphthalene,2-methyl-	14.458	142	376995	8.074	ppbv		100
81) 1,2,4-Trichlorobenzene	13.442	180	306119	8.702	ppbv		100

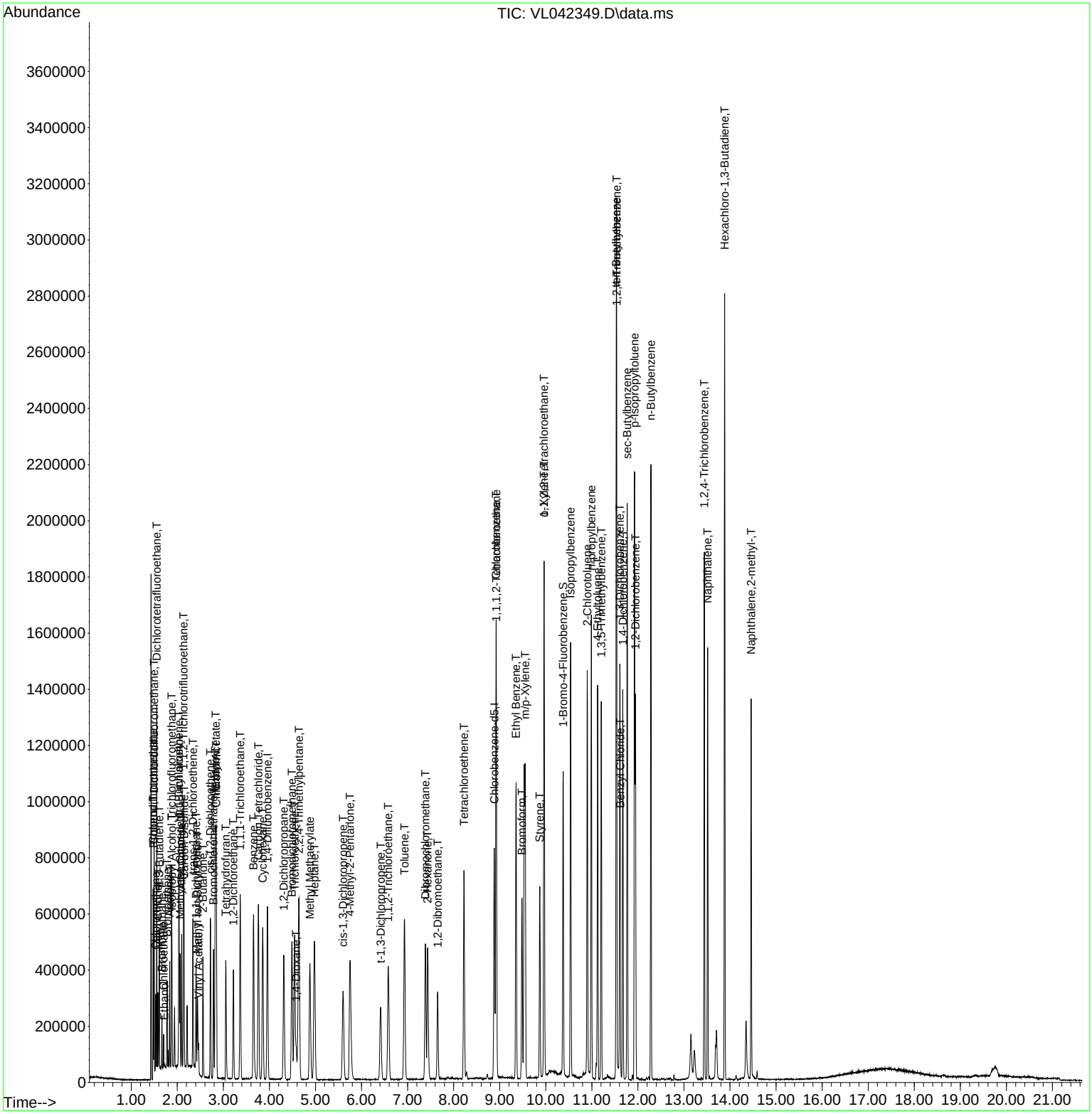
(#) = qualifier out of range (m) = manual integration (+) = signals summed

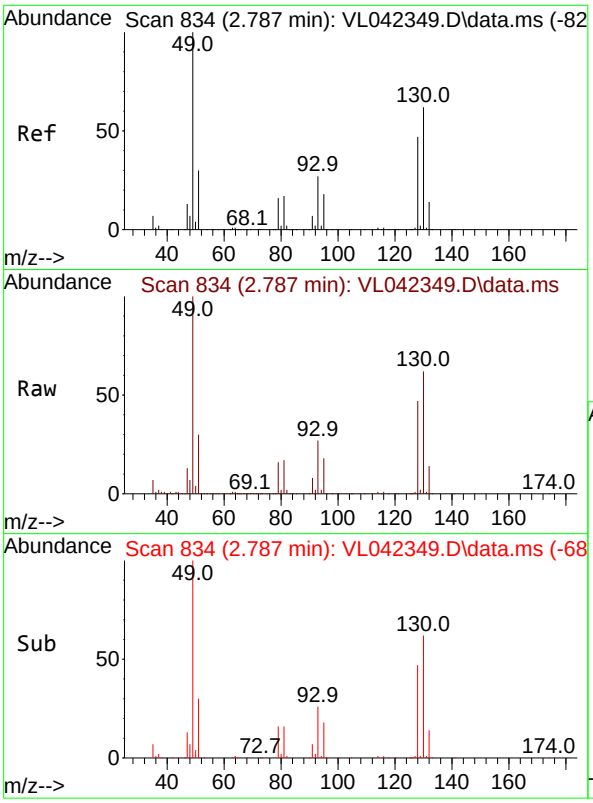
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042349.D
Acq On : 17 Apr 2025 09:44
Operator : SY/MD
Sample : VSTDICCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Quant Time: Apr 18 01:25:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Apr 18 01:24:29 2025
Response via : Initial Calibration



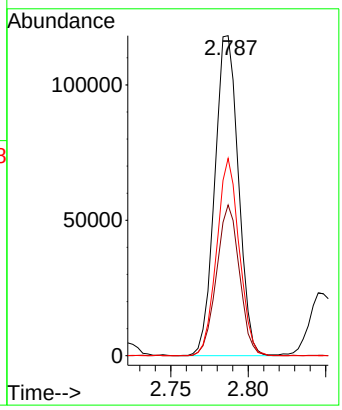


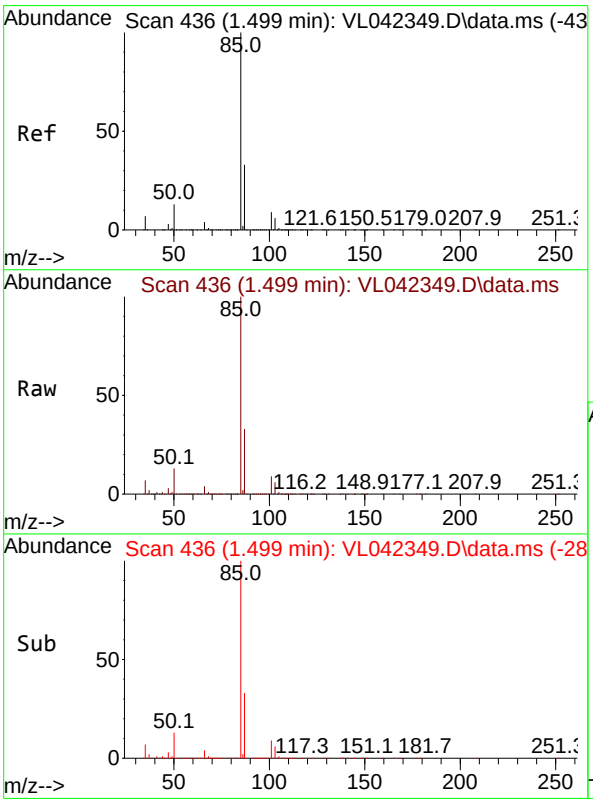
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 49 Resp: 125455

Ion	Ratio	Lower	Upper
49	100		
128	45.6	22.8	68.4
130	58.7	29.3	88.0

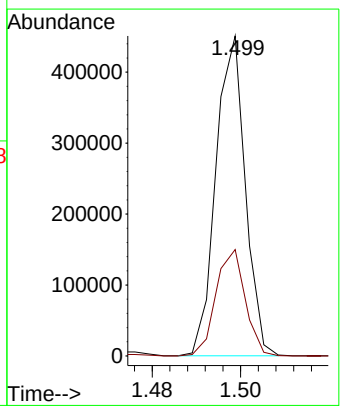


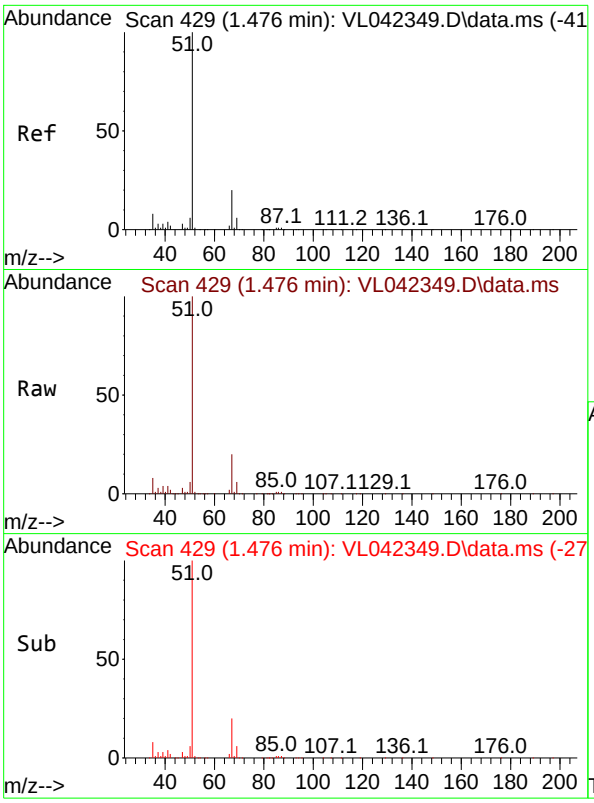


#2
Dichlorodifluoromethane
Concen: 9.382 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 85 Resp: 207962

Ion	Ratio	Lower	Upper
85	100		
87	33.2	26.6	39.8



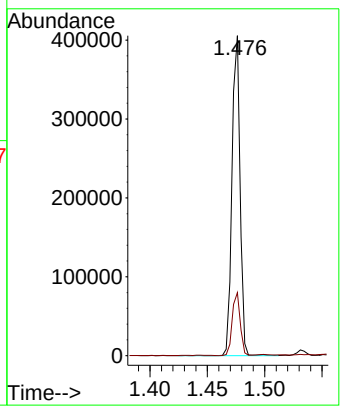


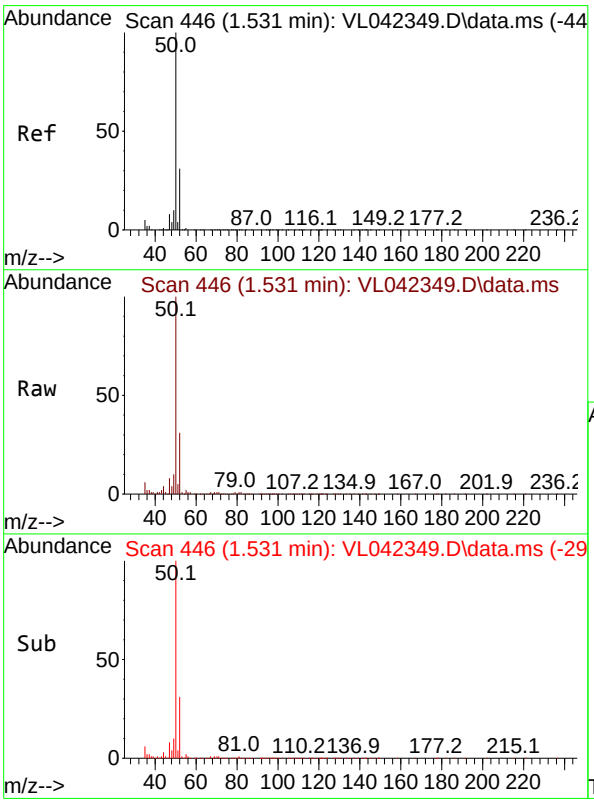
#3
Chlorodifluoromethane
Concen: 9.350 ppbv
RT: 1.476 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 51 Resp: 197334

Ion	Ratio	Lower	Upper
51	100		
67	20.3	16.2	24.4

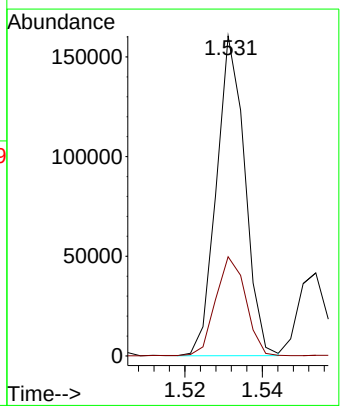


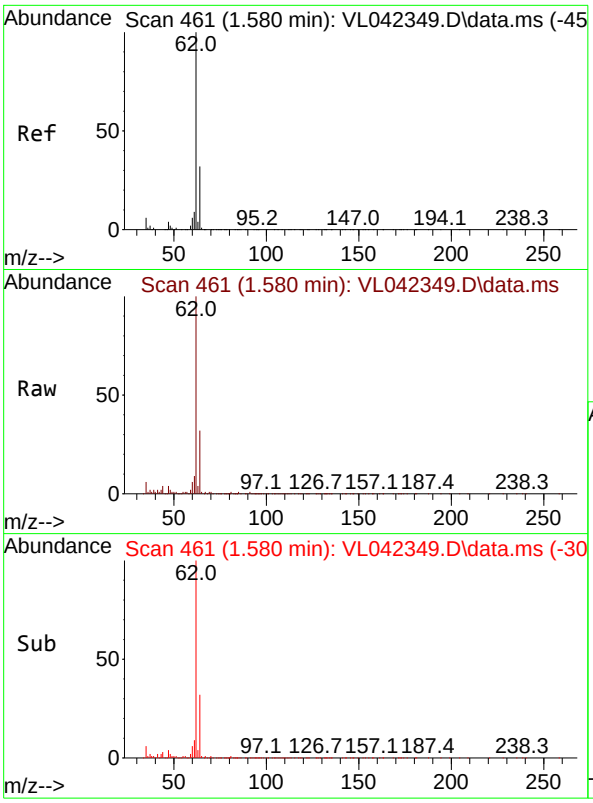


#4
Chloromethane
Concen: 9.330 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 50 Resp: 81843

Ion	Ratio	Lower	Upper
50	100		
52	30.9	24.7	37.1



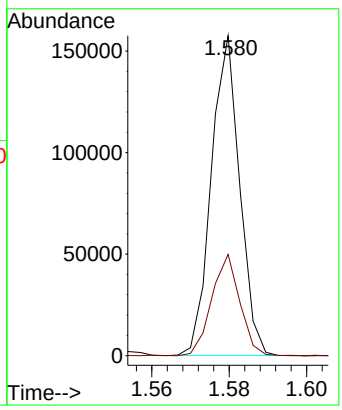


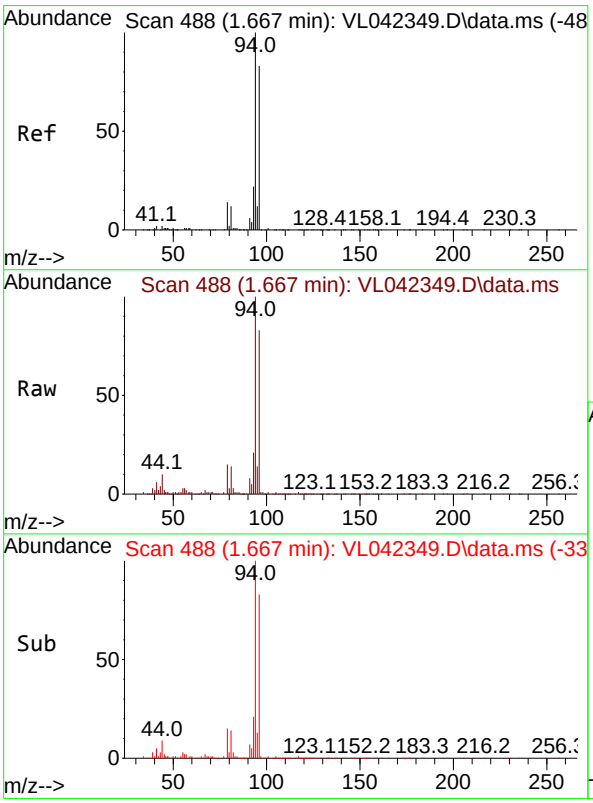
#5
Vinyl Chloride
Concen: 8.385 ppbv
RT: 1.580 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 62 Resp: 80068

Ion	Ratio	Lower	Upper
62	100		
64	31.7	25.4	38.0

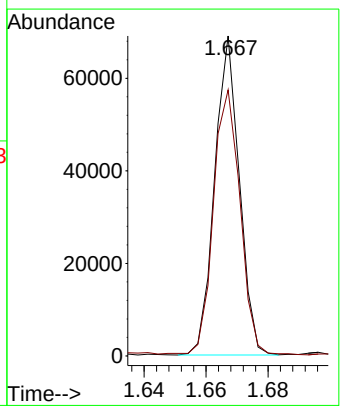


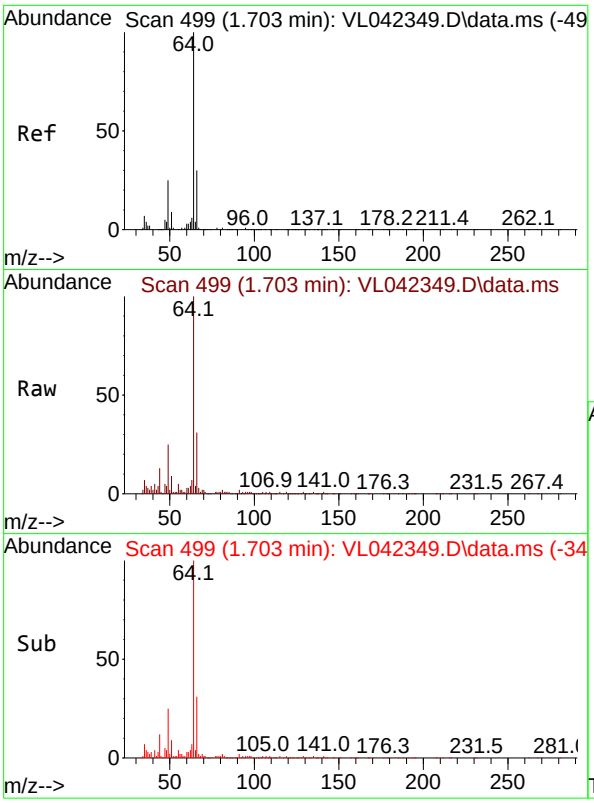


#6
Bromomethane
Concen: 9.219 ppbv
RT: 1.667 min Scan# 488
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 94 Resp: 38128

Ion	Ratio	Lower	Upper
94	100		
96	82.7	66.2	99.2



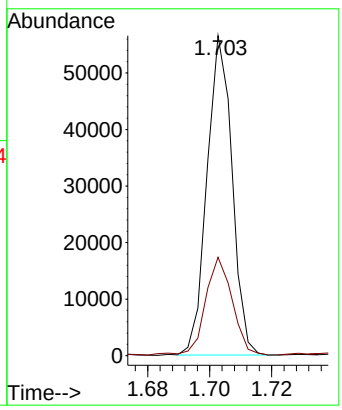


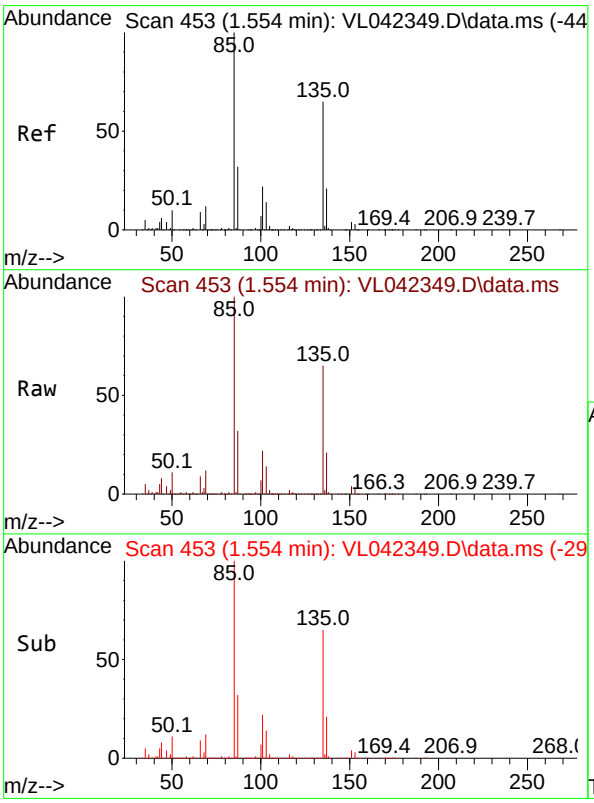
#7
Chloroethane
Concen: 9.182 ppbv
RT: 1.703 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 64 Resp: 31705

Ion	Ratio	Lower	Upper
64	100		
66	30.8	24.6	37.0

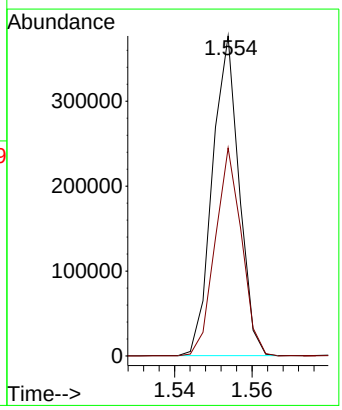


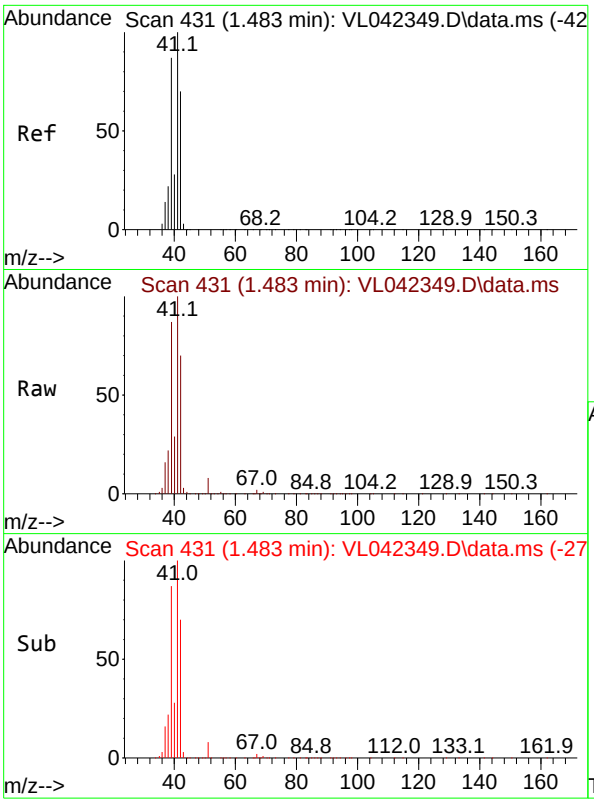


#8
Dichlorotetrafluoroethane
Concen: 9.442 ppbv
RT: 1.554 min Scan# 453
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 85 Resp: 179696

Ion	Ratio	Lower	Upper
85	100		
135	65.2	52.2	78.2



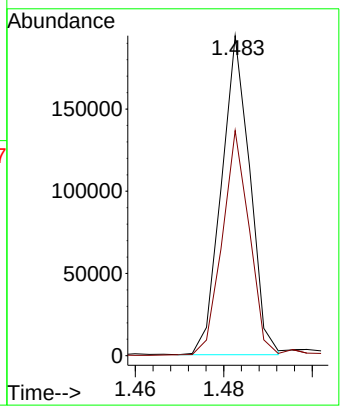


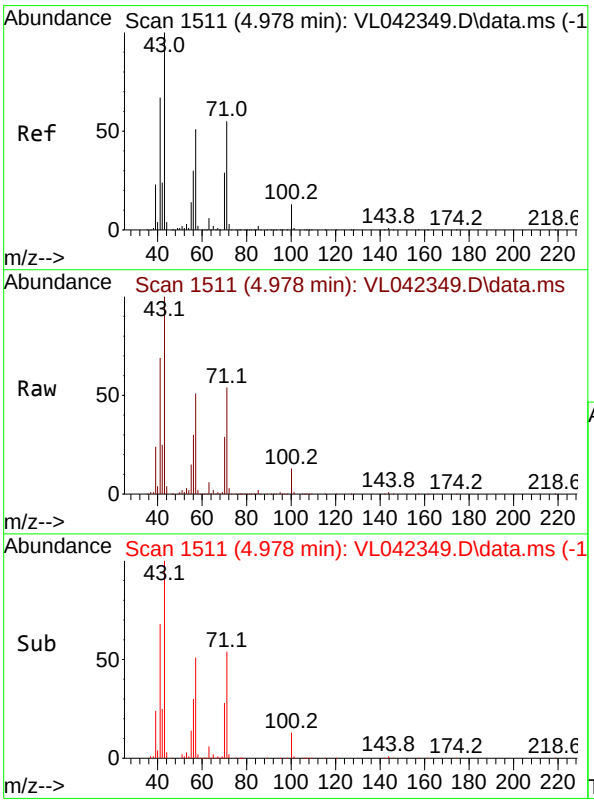
#9
Propene
Concen: 9.002 ppbv
RT: 1.483 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 41 Resp: 86530

Ion	Ratio	Lower	Upper
41	100		
42	70.3	56.2	84.4

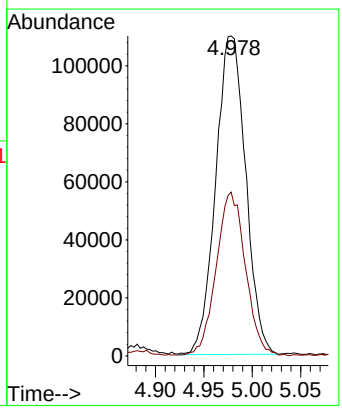


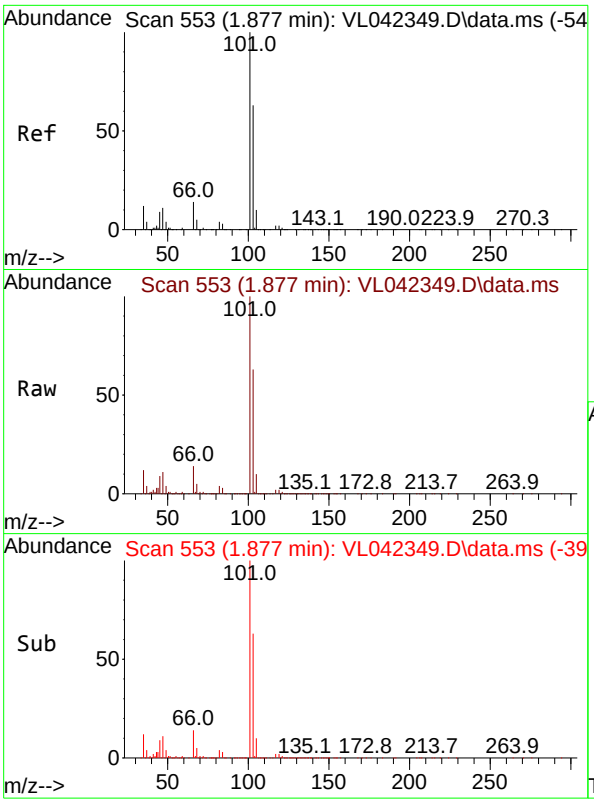


#10
Heptane
Concen: 9.138 ppbv
RT: 4.978 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 43 Resp: 236341

Ion	Ratio	Lower	Upper
43	100		
57	49.9	39.9	59.9



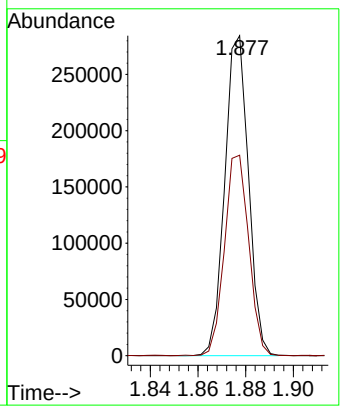


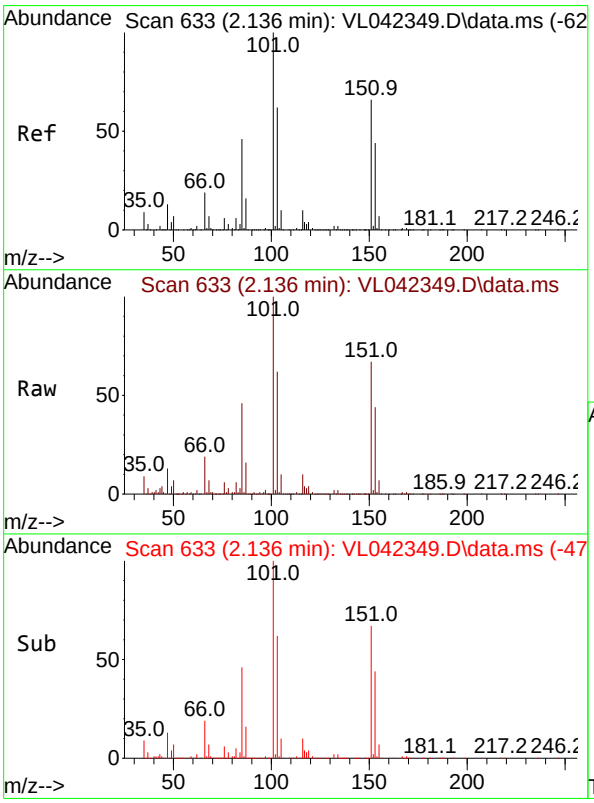
#11
Trichlorofluoromethane
Concen: 9.327 ppbv
RT: 1.877 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion:101 Resp: 196596

Ion	Ratio	Lower	Upper
101	100		
103	62.6	50.1	75.1

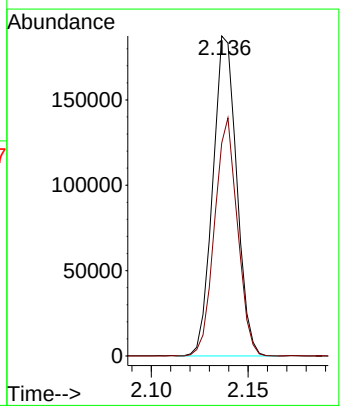


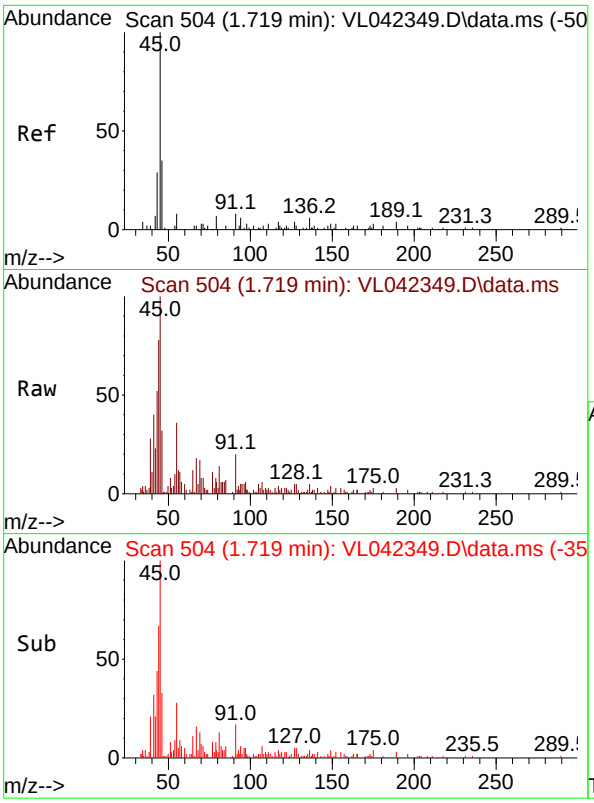


#12
1,1,2-Trichlorotrifluoroethane
Concen: 9.323 ppbv
RT: 2.136 min Scan# 633
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion:101 Resp: 160682

Ion	Ratio	Lower	Upper
101	100		
151	71.3	57.0	85.6



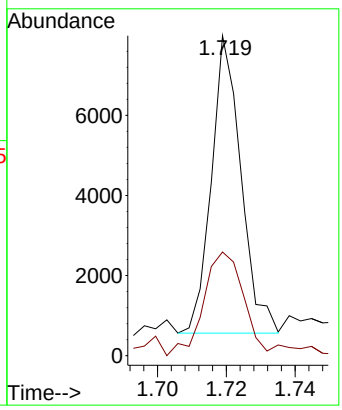


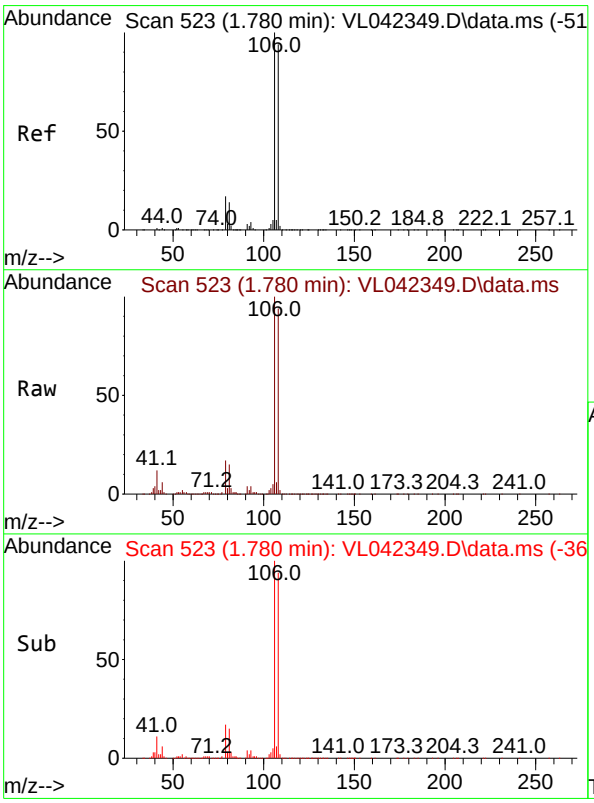
#13
Ethanol
Concen: 5.651 ppbv
RT: 1.719 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 45 Resp: 4439

Ion	Ratio	Lower	Upper
45	100		
46	54.8	21.9	87.7

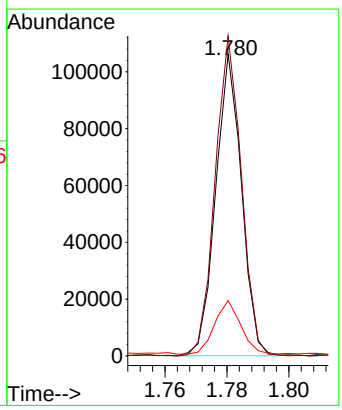


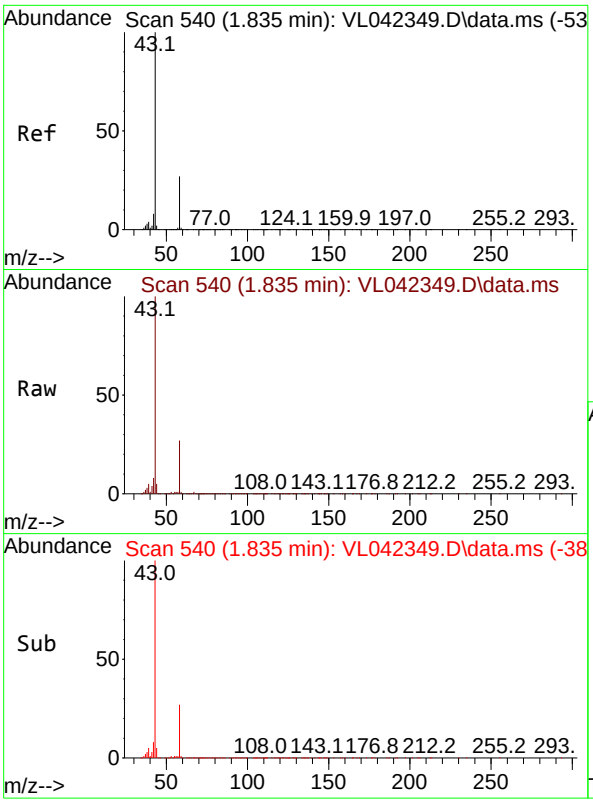


#14
Bromoethene
Concen: 9.466 ppbv
RT: 1.780 min Scan# 523
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion:108 Resp: 61493

Ion	Ratio	Lower	Upper
108	100		
106	107.4	85.9	128.9
79	17.4	13.9	20.9



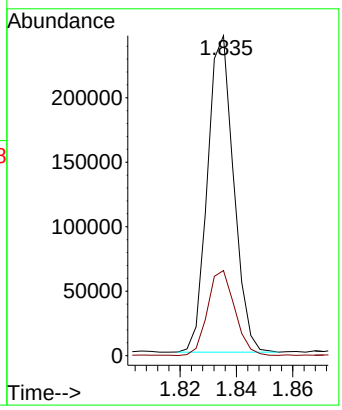


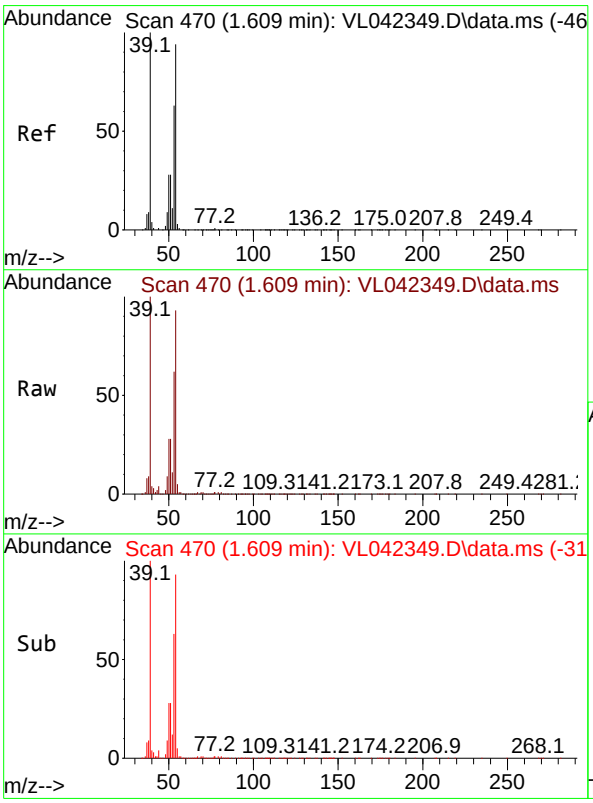
#15
Acetone
Concen: 7.717 ppbv
RT: 1.835 min Scan# 54
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 43 Resp: 158490

Ion	Ratio	Lower	Upper
43	100		
58	28.0	22.4	33.6

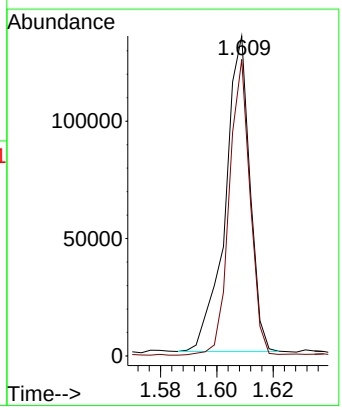


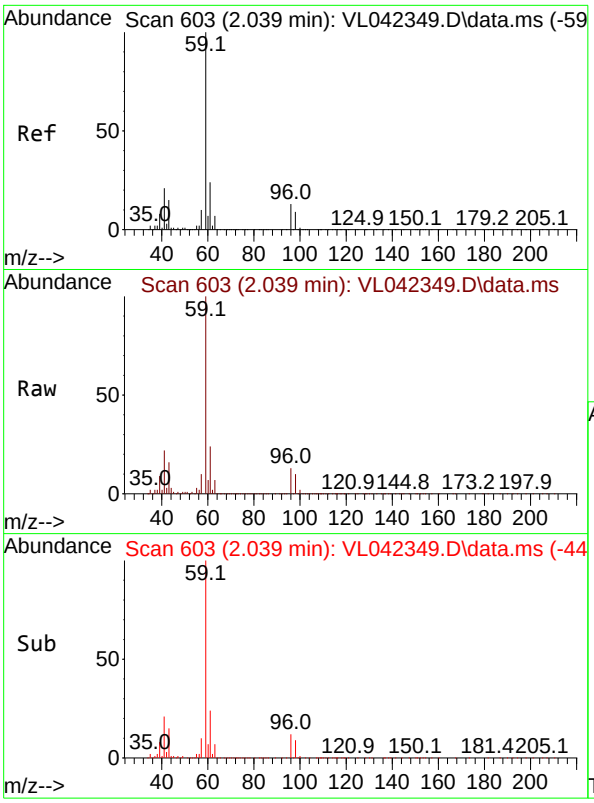


#16
1,3-Butadiene
Concen: 8.470 ppbv
RT: 1.609 min Scan# 470
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 39 Resp: 81688

Ion	Ratio	Lower	Upper
39	100		
54	81.1	64.9	97.3



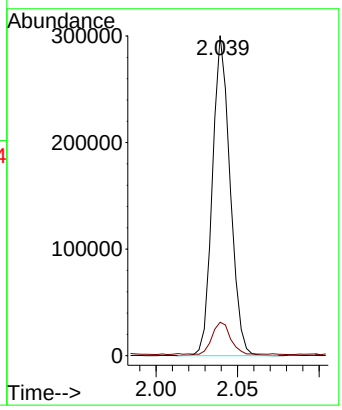


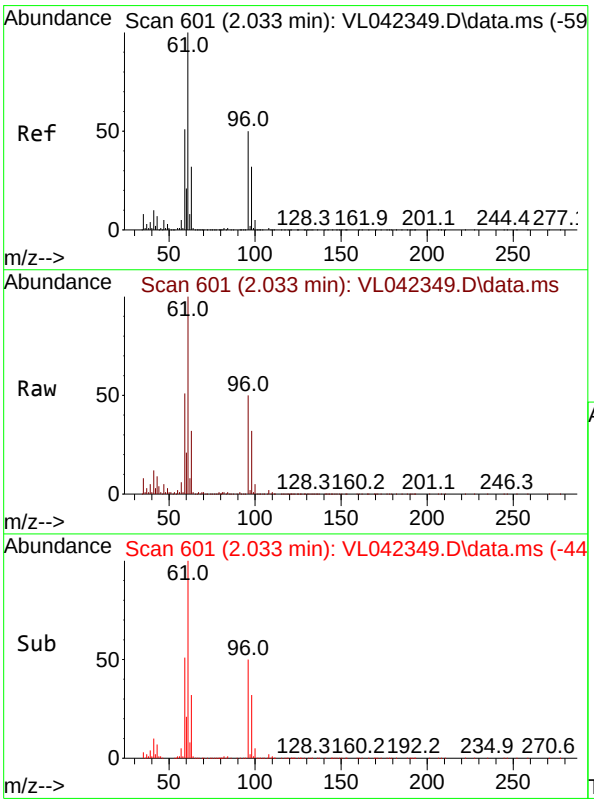
#17
tert-Butyl alcohol
Concen: 8.891 ppbv
RT: 2.039 min Scan# 6
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 59 Resp: 226280

Ion	Ratio	Lower	Upper
59	100		
57	10.9	8.7	13.1

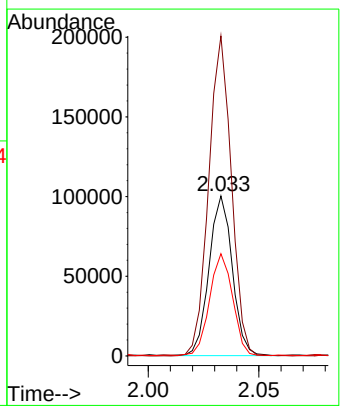


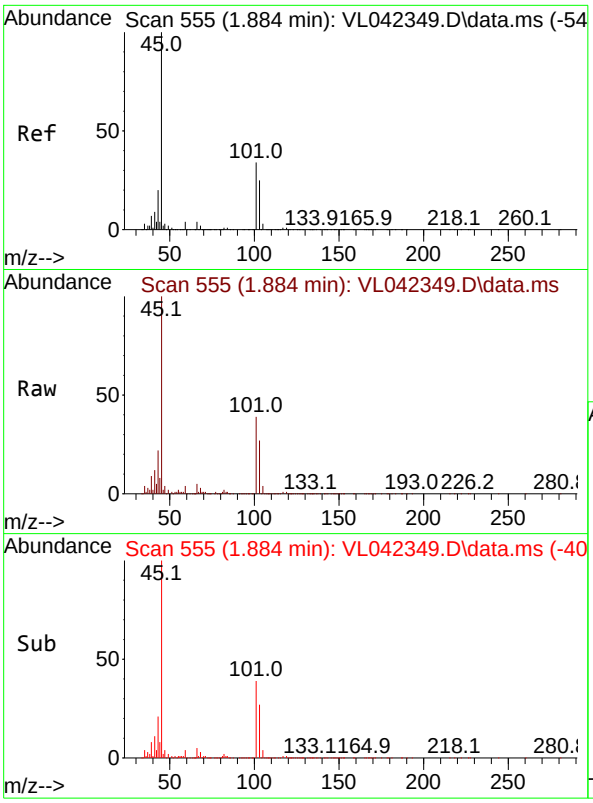


#18
1,1-Dichloroethene
Concen: 8.833 ppbv
RT: 2.033 min Scan# 601
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 96 Resp: 73186

Ion	Ratio	Lower	Upper
96	100		
61	200.2	160.2	240.2
98	63.7	51.0	76.4



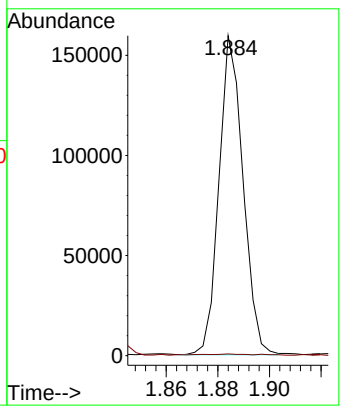


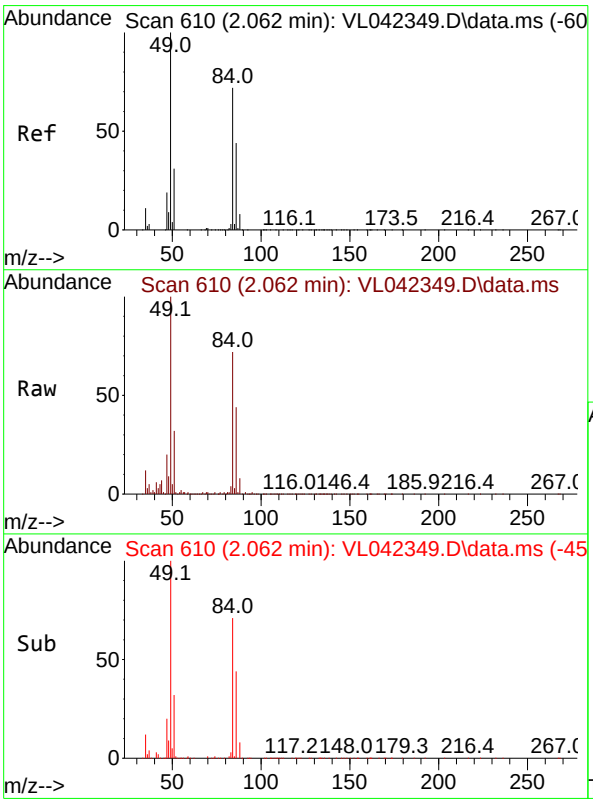
#19
Isopropyl Alcohol
Concen: 9.031 ppbv
RT: 1.884 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 45 Resp: 103029

Ion	Ratio	Lower	Upper
45	100		
58	43.1	34.5	51.7

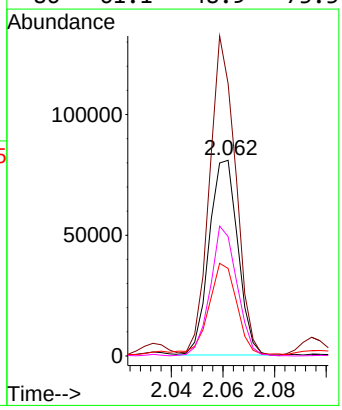


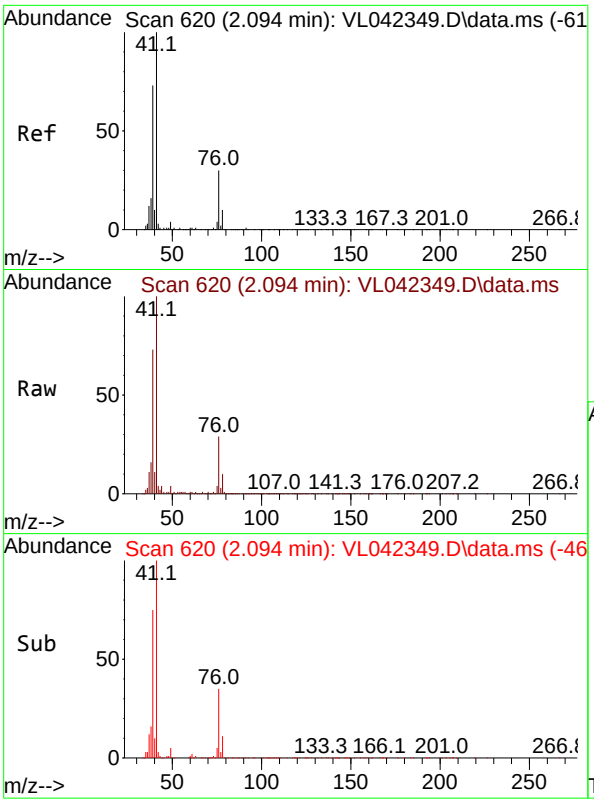


#20
Methylene Chloride
Concen: 7.760 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 84 Resp: 62414

Ion	Ratio	Lower	Upper
84	100		
49	139.5	111.6	167.4
51	43.9	35.1	52.7
86	61.1	48.9	73.3



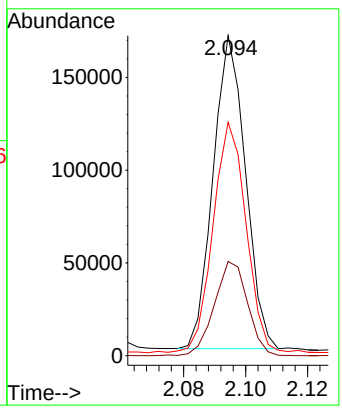


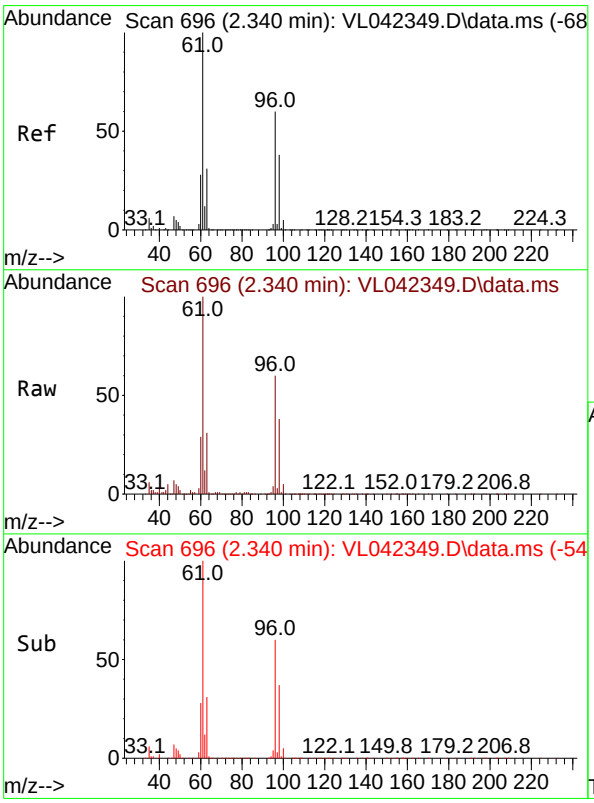
#21
Allyl Chloride
Concen: 8.611 ppbv
RT: 2.094 min Scan# 6
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 41 Resp: 122115

Ion	Ratio	Lower	Upper
41	100		
76	31.0	24.8	37.2
39	75.7	60.6	90.8

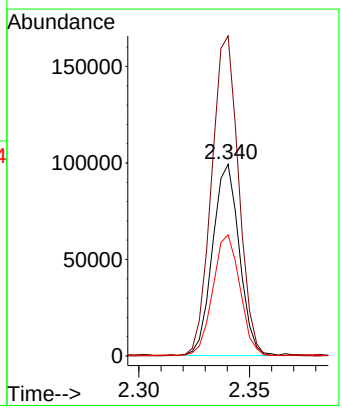


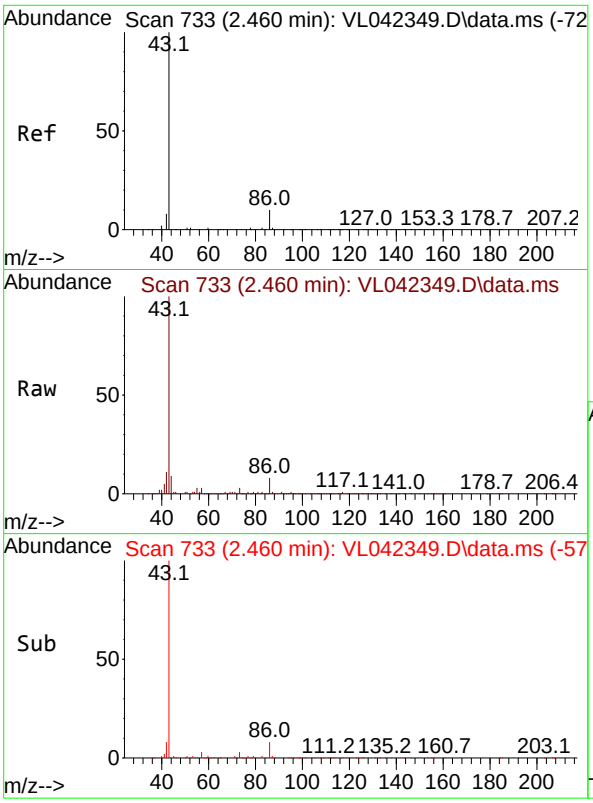


#22
trans-1,2-Dichloroethene
Concen: 9.084 ppbv
RT: 2.340 min Scan# 696
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 96 Resp: 83278

Ion	Ratio	Lower	Upper
96	100		
61	167.1	133.7	200.5
98	62.9	50.3	75.5



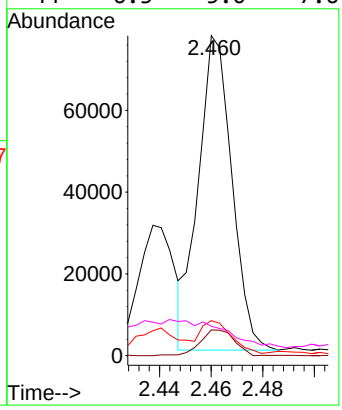


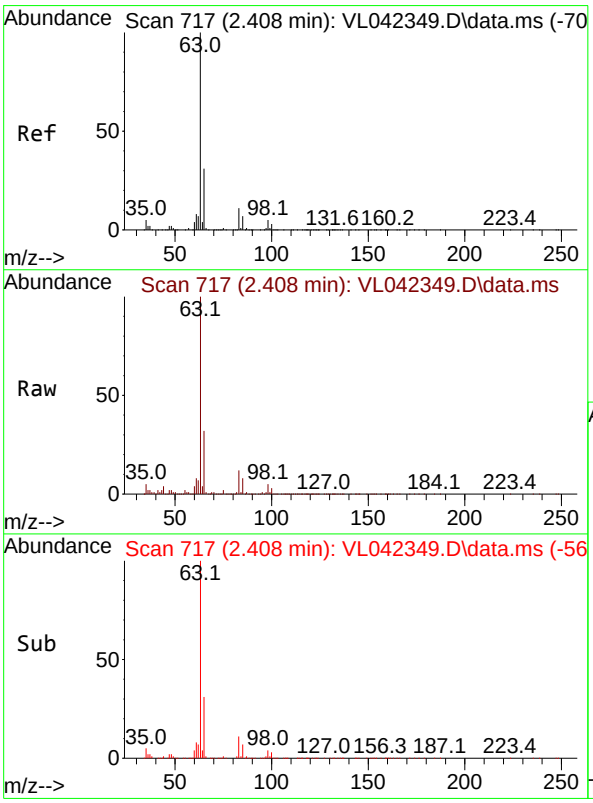
#23
Vinyl Acetate
Concen: 8.378 ppbv
RT: 2.460 min Scan# 7
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 43 Resp: 69649

Ion	Ratio	Lower	Upper
43	100		
86	8.1	6.5	9.7
42	9.8	7.8	11.8
44	6.3	5.0	7.6

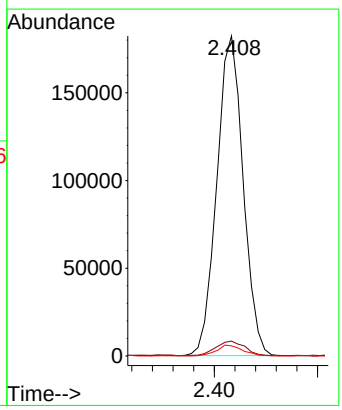


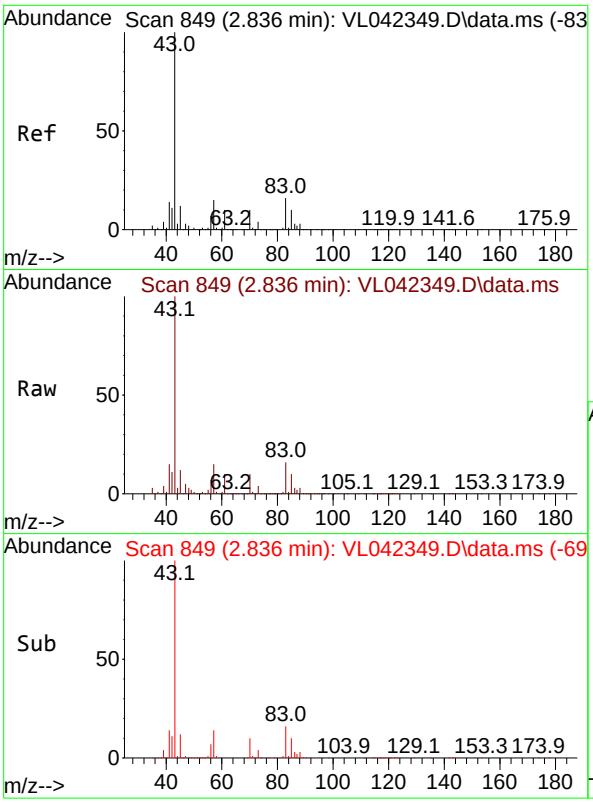


#24
1,1-Dichloroethane
Concen: 9.251 ppbv
RT: 2.408 min Scan# 717
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 63 Resp: 161102

Ion	Ratio	Lower	Upper
63	100		
98	4.5	2.3	6.8
100	3.2	1.6	4.8



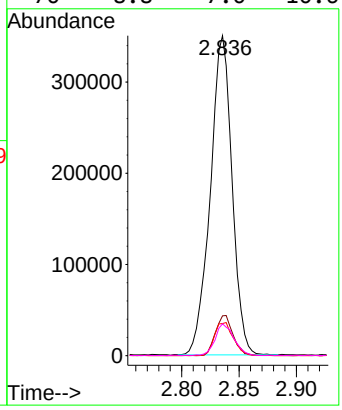


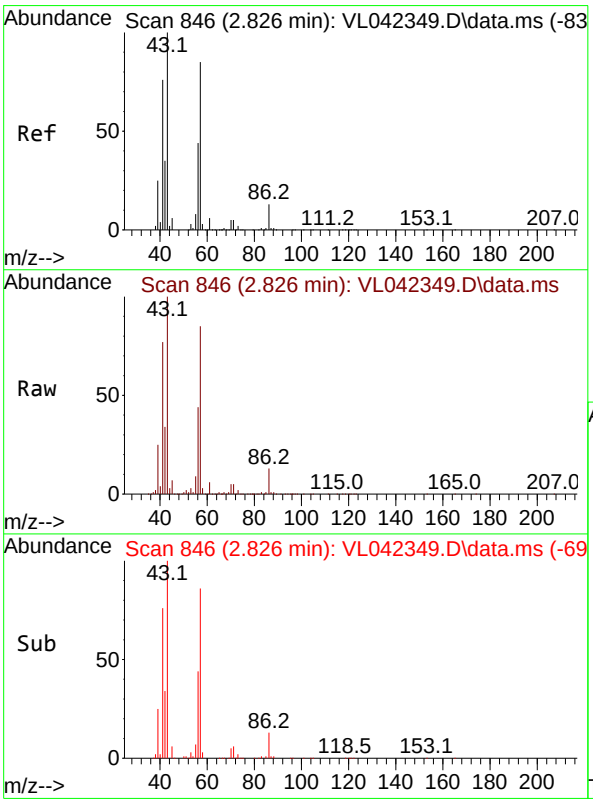
#25
Ethyl Acetate
Concen: 9.110 ppbv
RT: 2.836 min Scan# 84
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 43 Resp: 461315

Ion	Ratio	Lower	Upper
43	100		
45	10.4	8.3	12.5
61	9.1	7.3	10.9
70	8.8	7.0	10.6

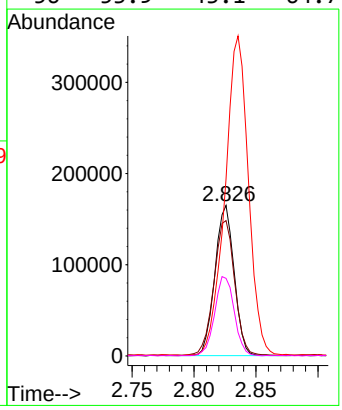


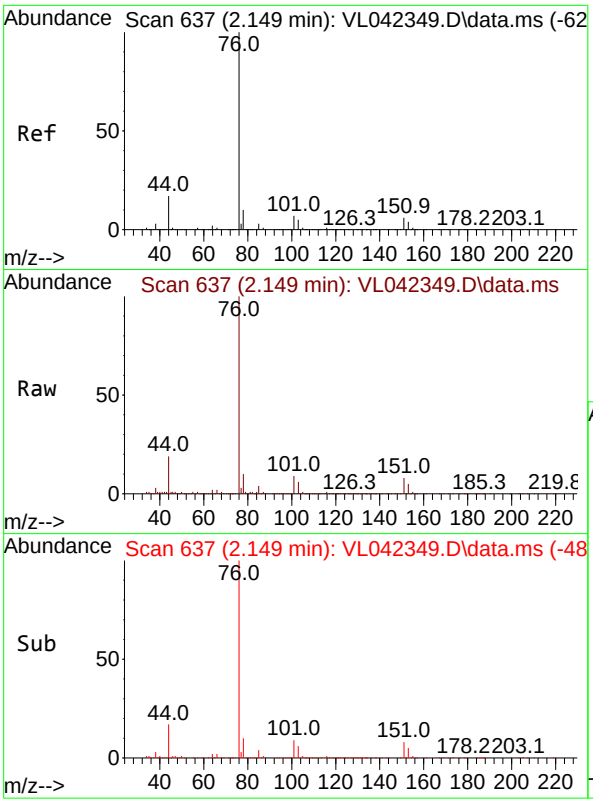


#26
Hexane
Concen: 8.720 ppbv
RT: 2.826 min Scan# 846
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 57 Resp: 178691

Ion	Ratio	Lower	Upper
57	100		
41	97.4	77.9	116.9
43	260.5	208.4	312.6
56	53.9	43.1	64.7



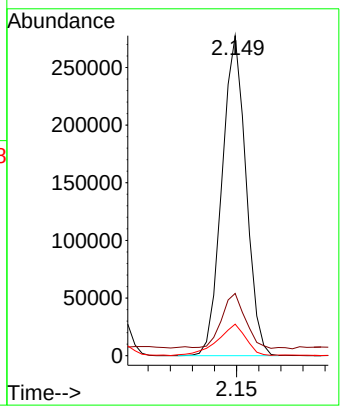


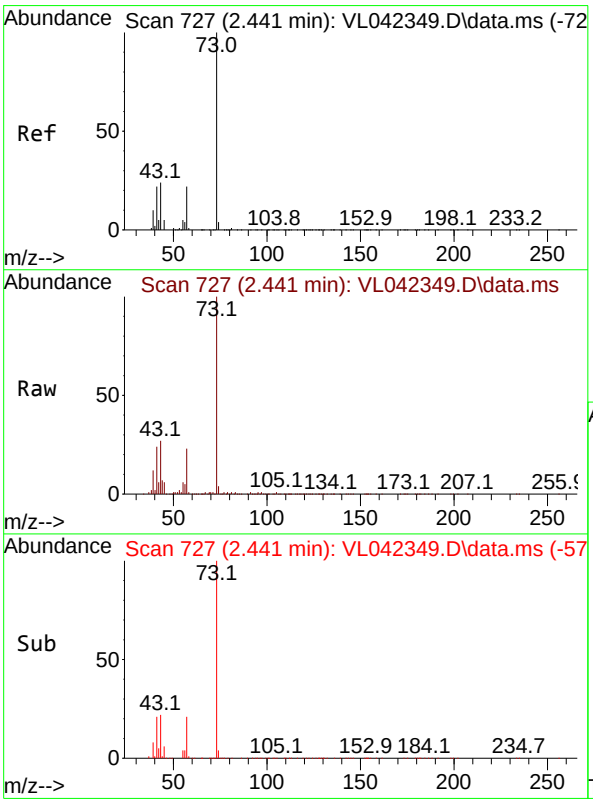
#27
Carbon Disulfide
Concen: 9.539 ppbv
RT: 2.149 min Scan# 6
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 76 Resp: 209297

Ion	Ratio	Lower	Upper
76	100		
44	19.4	15.5	23.3
78	11.6	9.3	13.9

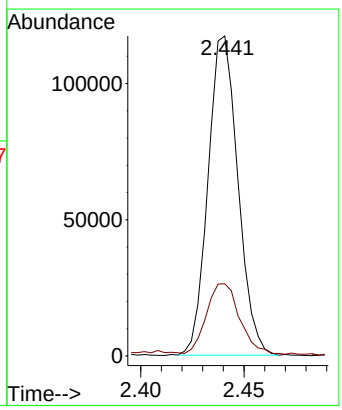


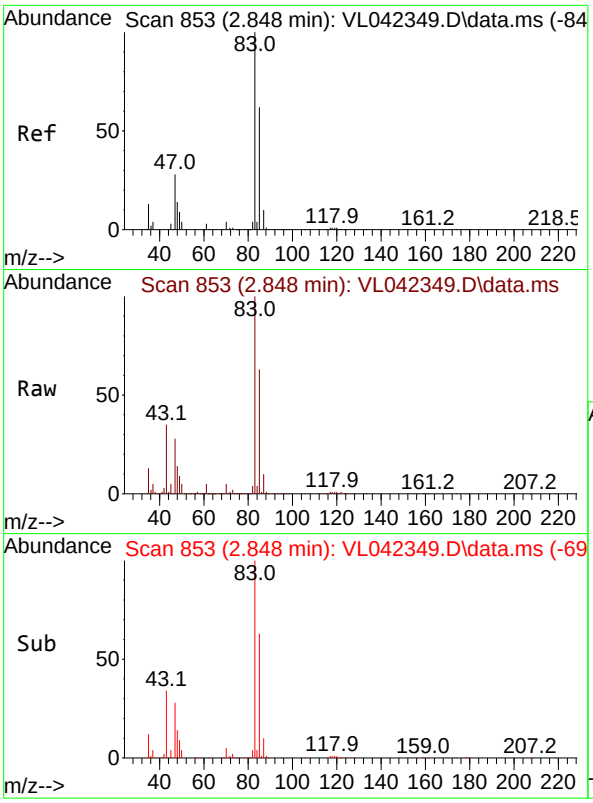


#28
Methyl tert-Butyl Ether
Concen: 8.783 ppbv
RT: 2.441 min Scan# 727
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 73 Resp: 117924

Ion	Ratio	Lower	Upper
73	100		
57	26.6	21.3	31.9



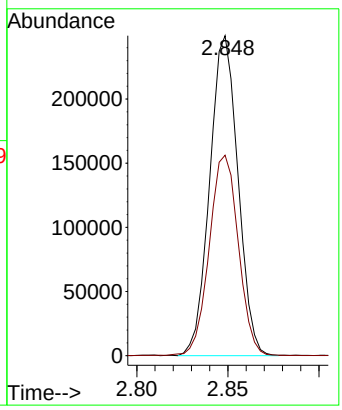


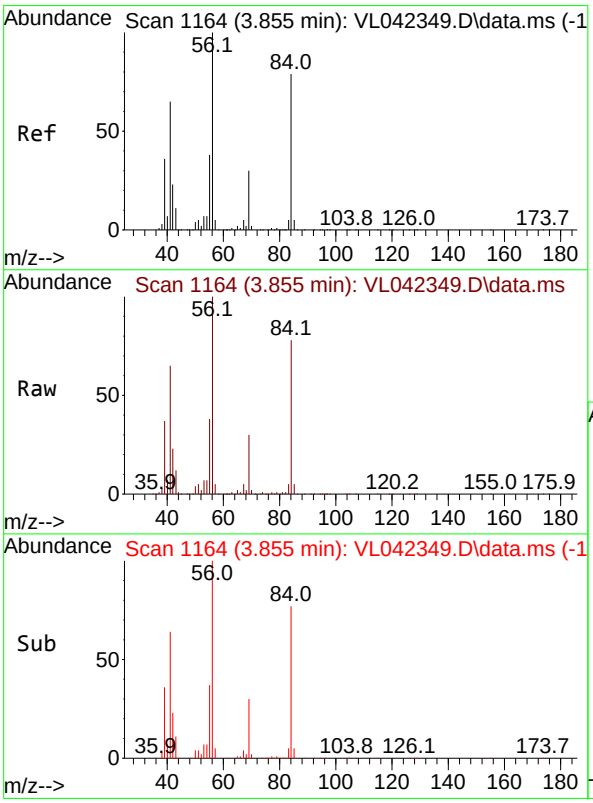
#29
Chloroform
Concen: 9.290 ppbv
RT: 2.848 min Scan# 8
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 83 Resp: 269088

Ion	Ratio	Lower	Upper
83	100		
85	62.5	50.0	75.0

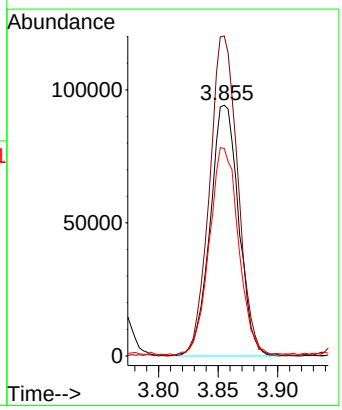


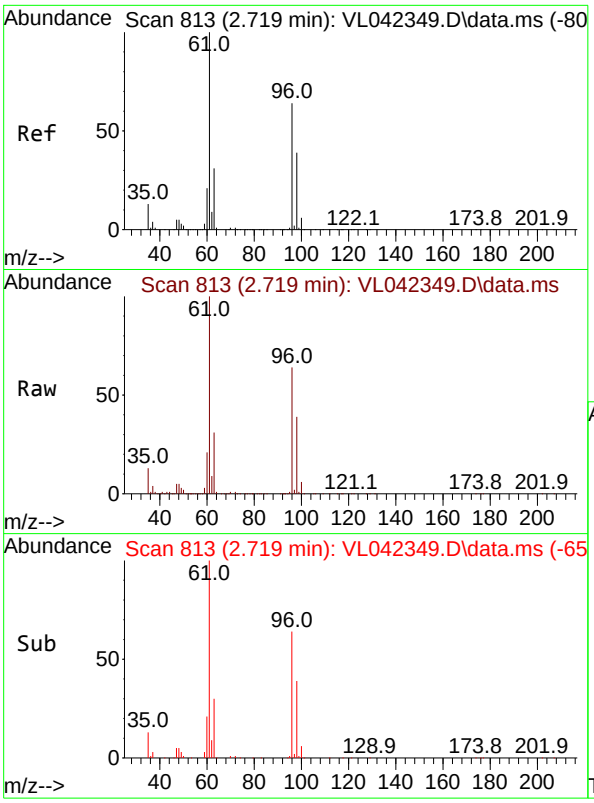


#30
Cyclohexane
Concen: 9.517 ppbv
RT: 3.855 min Scan# 1164
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 84 Resp: 157035

Ion	Ratio	Lower	Upper
84	100		
56	126.2	101.0	151.4
41	84.2	67.4	101.0



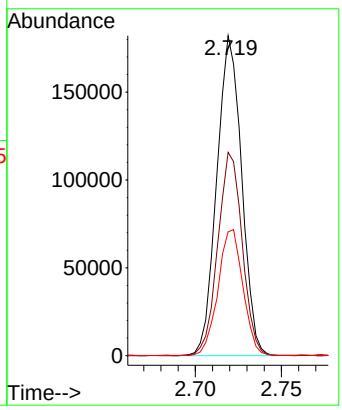


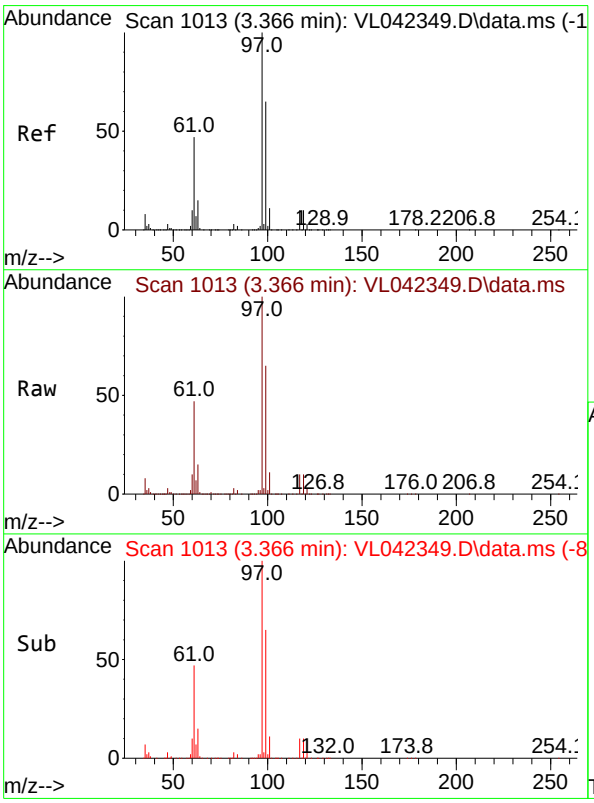
#31
cis-1,2-Dichloroethene
Concen: 9.397 ppbv
RT: 2.719 min Scan# 81
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 61 Resp: 183082

Ion	Ratio	Lower	Upper
61	100		
96	63.5	50.8	76.2
98	38.6	30.9	46.3

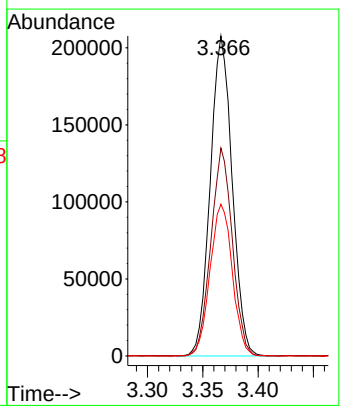


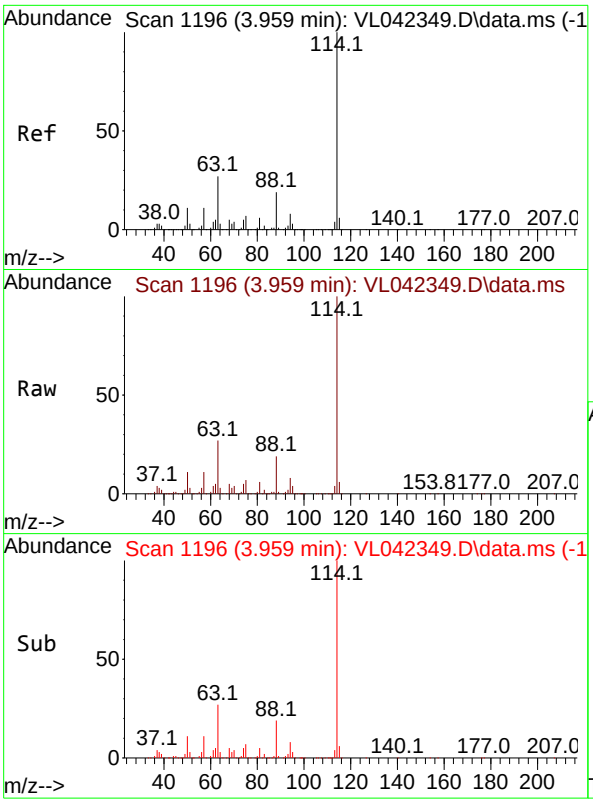


#32
1,1,1-Trichloroethane
Concen: 9.187 ppbv
RT: 3.366 min Scan# 1013
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 97 Resp: 285336

Ion	Ratio	Lower	Upper
97	100		
99	63.7	51.0	76.4
61	48.5	38.8	58.2



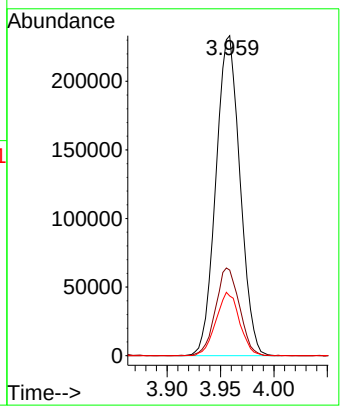


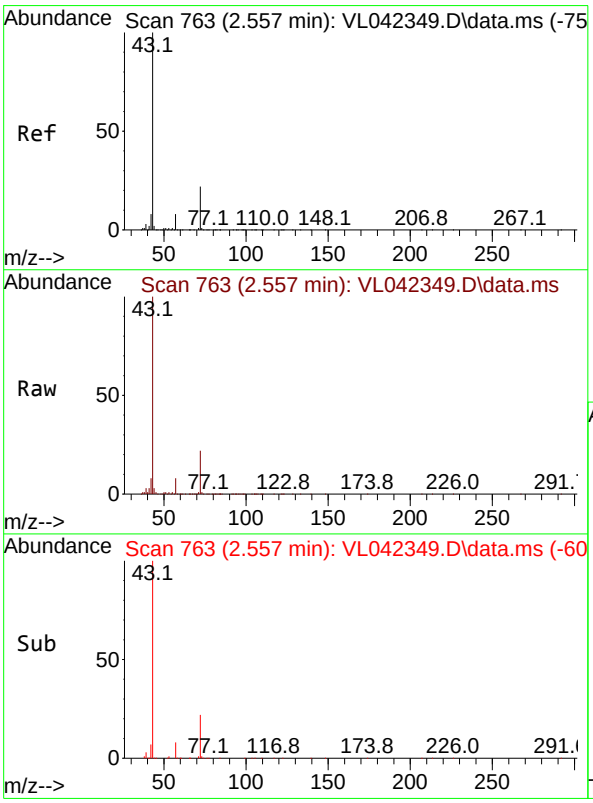
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.959 min Scan# 1
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion:114 Resp: 366544

Ion	Ratio	Lower	Upper
114	100		
63	27.2	21.8	32.6
88	19.4	15.5	23.3

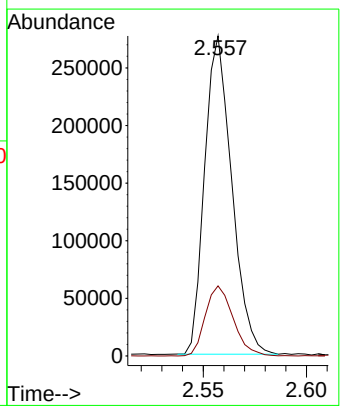


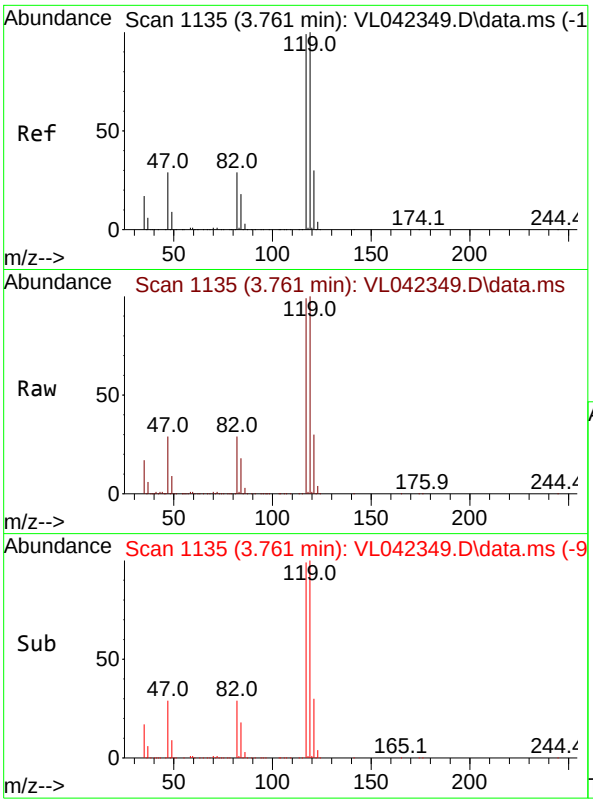


#34
2-Butanone
Concen: 8.683 ppbv
RT: 2.557 min Scan# 763
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 43 Resp: 251704

Ion	Ratio	Lower	Upper
43	100		
72	22.7	18.2	27.2



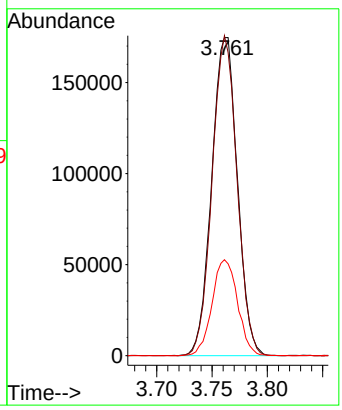


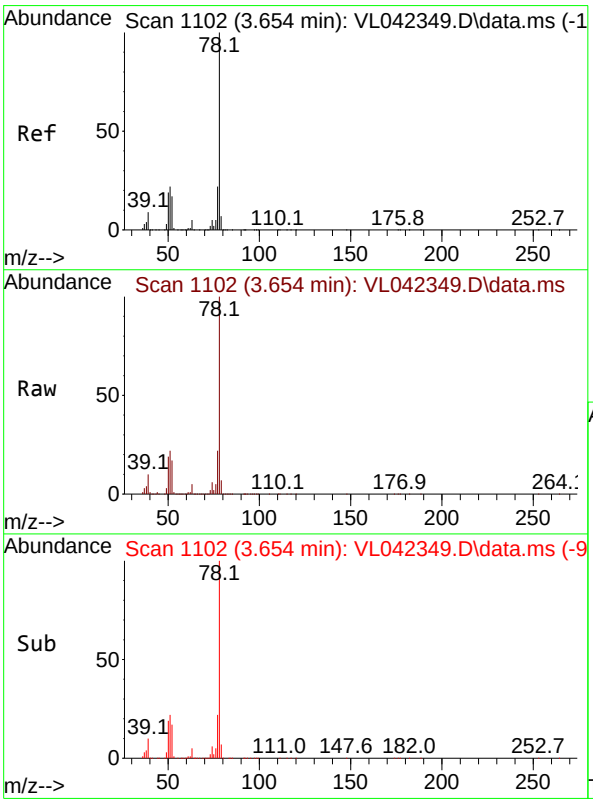
#35
Carbon Tetrachloride
Concen: 8.513 ppbv
RT: 3.761 min Scan# 11
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion:117 Resp: 282402

Ion	Ratio	Lower	Upper
117	100		
119	100.6	80.5	120.7
121	30.2	24.2	36.2

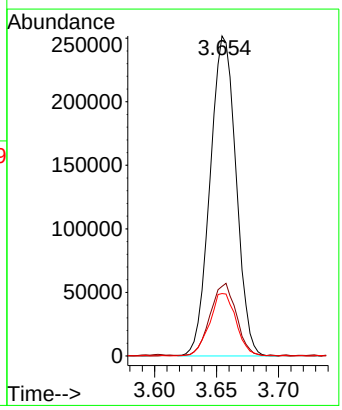


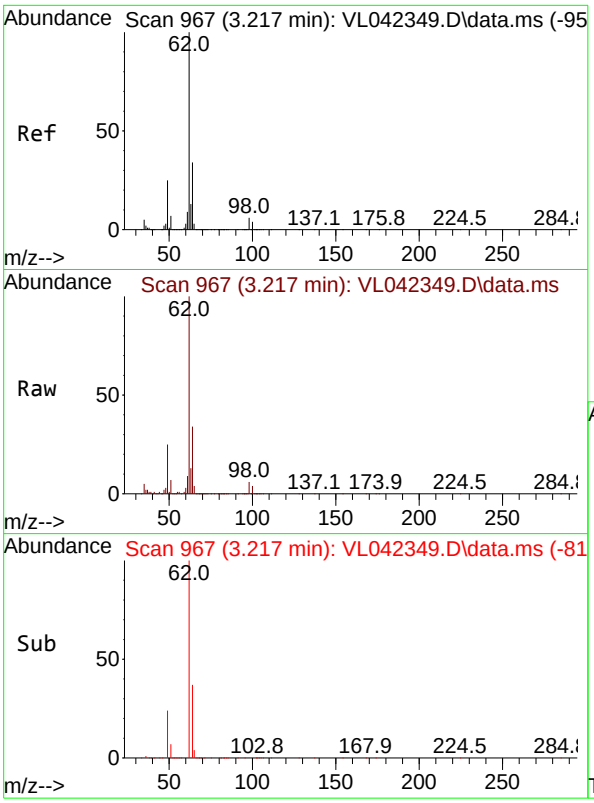


#36
Benzene
Concen: 9.292 ppbv
RT: 3.654 min Scan# 1102
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 78 Resp: 367355

Ion	Ratio	Lower	Upper
78	100		
77	21.7	17.4	26.0
50	19.4	15.5	23.3



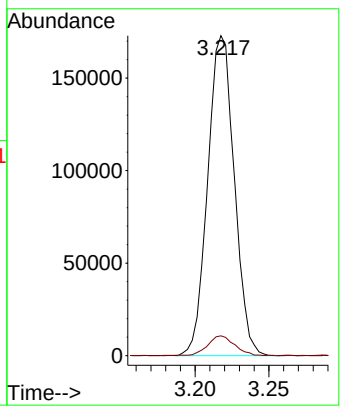


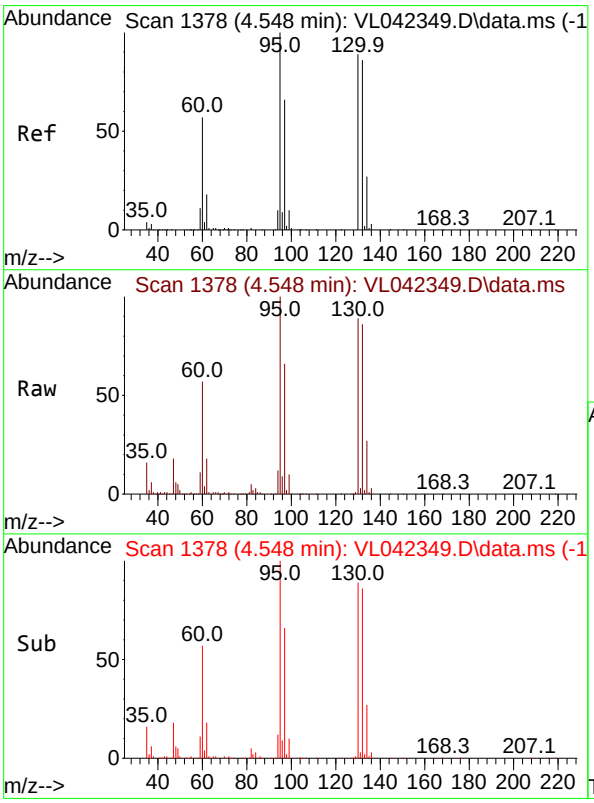
#37
1,2-Dichloroethane
Concen: 9.145 ppbv
RT: 3.217 min Scan# 9
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 62 Resp: 216999

Ion	Ratio	Lower	Upper
62	100		
98	6.4	5.1	7.7

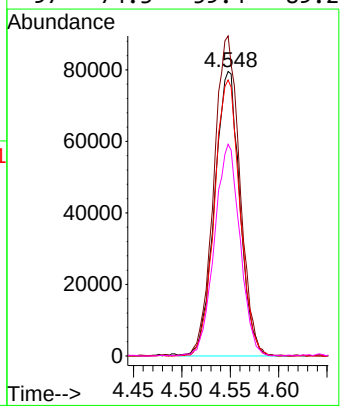


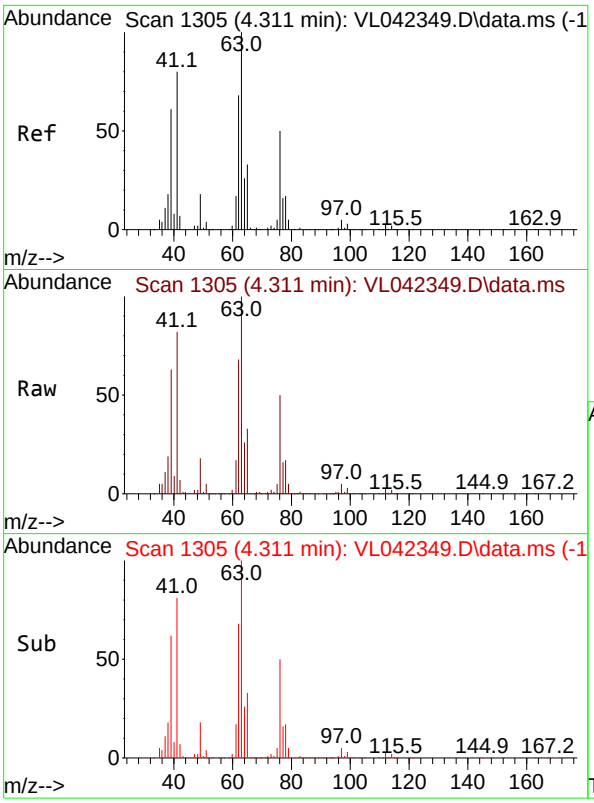


#38
Trichloroethene
Concen: 8.352 ppbv
RT: 4.548 min Scan# 1378
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion:130 Resp: 144767

Ion	Ratio	Lower	Upper
130	100		
95	112.2	89.8	134.6
132	97.1	77.7	116.5
97	74.3	59.4	89.2



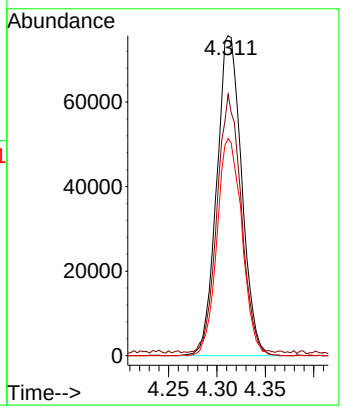


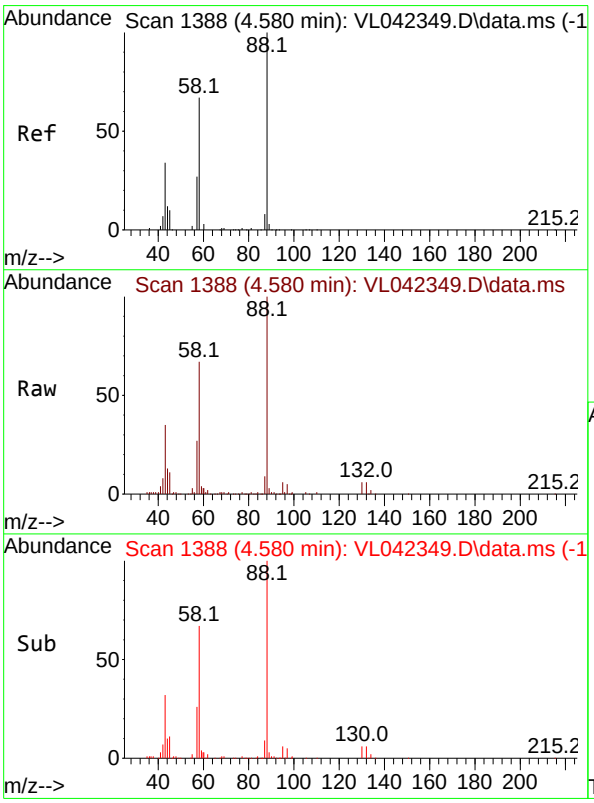
#39
1,2-Dichloropropane
Concen: 9.197 ppbv
RT: 4.311 min Scan# 1
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 63 Resp: 135605

Ion	Ratio	Lower	Upper
63	100		
41	80.2	64.2	96.2
62	67.9	54.3	81.5

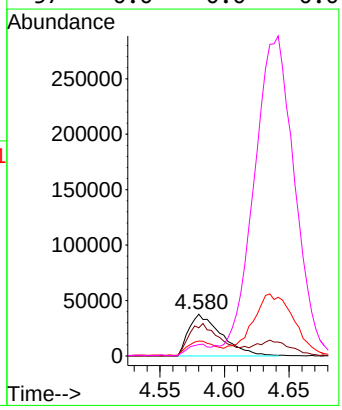


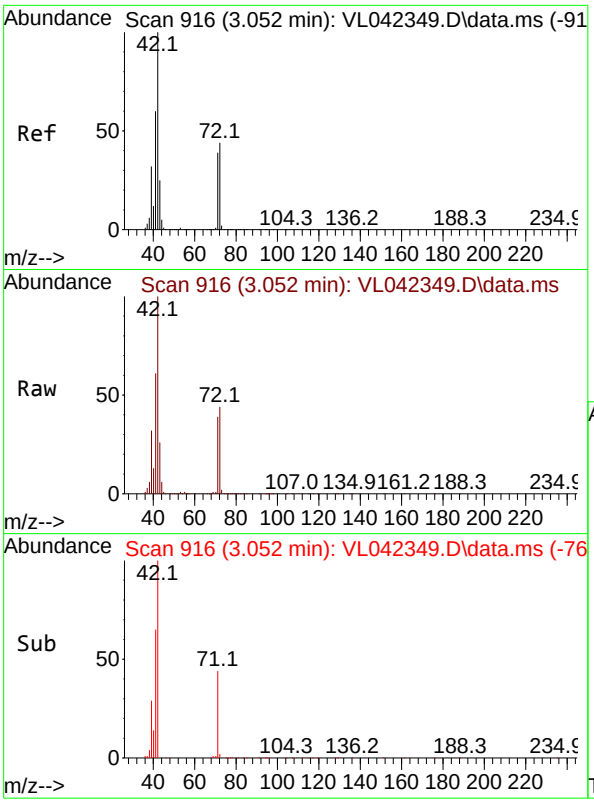


#40
1,4-Dioxane
Concen: 8.348 ppbv
RT: 4.580 min Scan# 1388
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 88 Resp: 66662

Ion	Ratio	Lower	Upper
88	100		
58	76.7	61.4	92.0
43	29.0	23.2	34.8
57	0.0	0.0	0.0



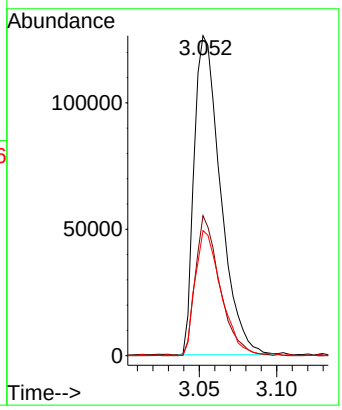


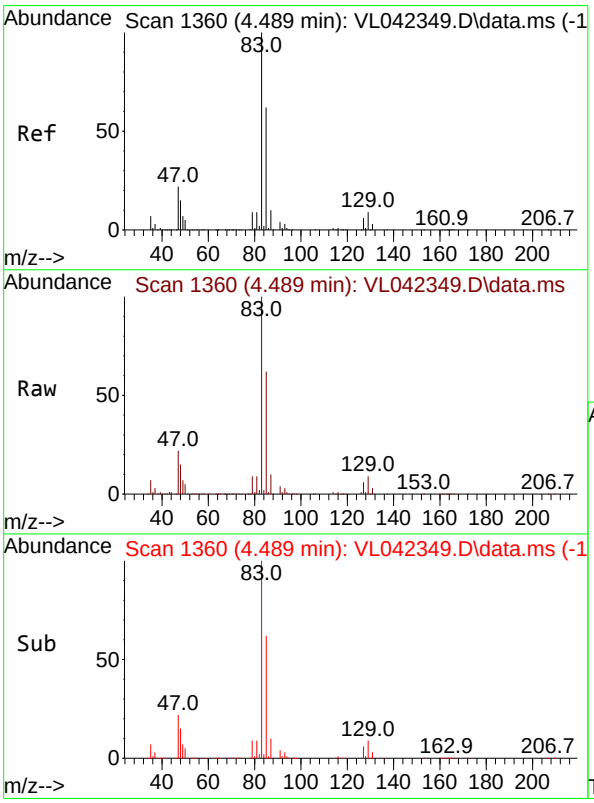
#41
Tetrahydrofuran
Concen: 8.950 ppbv
RT: 3.052 min Scan# 91
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 42 Resp: 149905

Ion	Ratio	Lower	Upper
42	100		
72	40.4	32.3	48.5
71	39.3	31.4	47.2

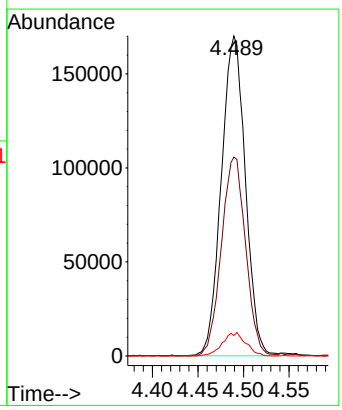


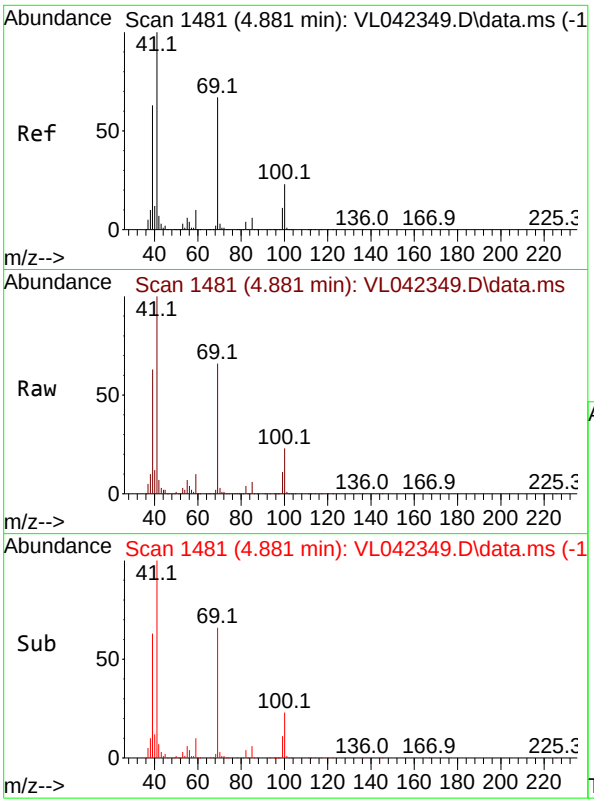


#42
Bromodichloromethane
Concen: 9.456 ppbv
RT: 4.489 min Scan# 1360
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 83 Resp: 312268

Ion	Ratio	Lower	Upper
83	100		
85	62.1	49.7	74.5
127	6.4	5.1	7.7



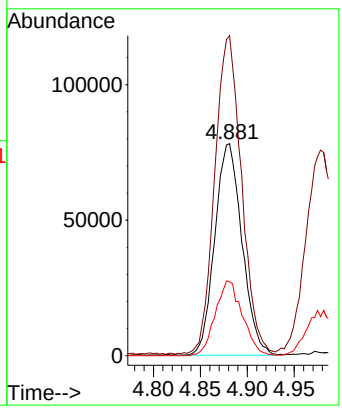


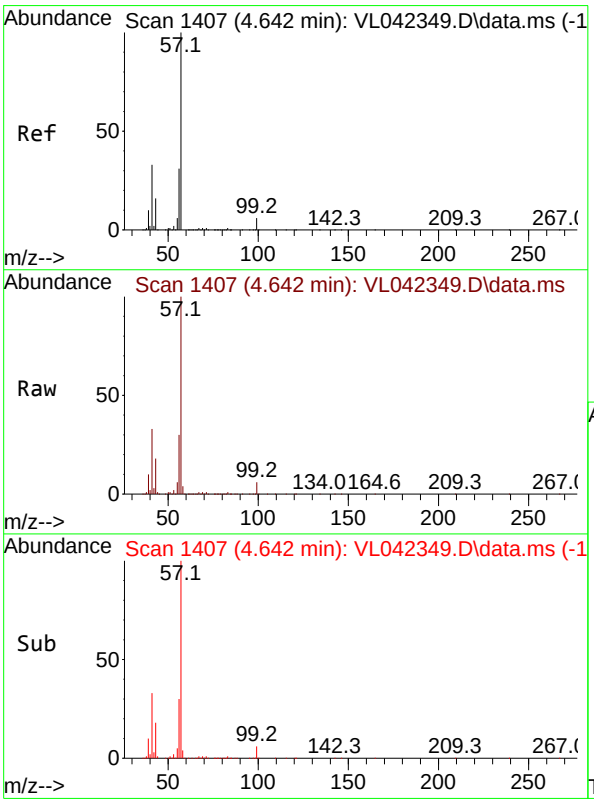
#43
Methyl Methacrylate
Concen: 8.876 ppbv
RT: 4.881 min Scan# 14
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 69 Resp: 157501

Ion	Ratio	Lower	Upper
69	100		
41	148.2	118.6	177.8
100	35.2	28.2	42.2

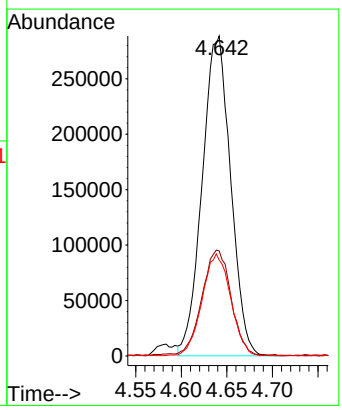


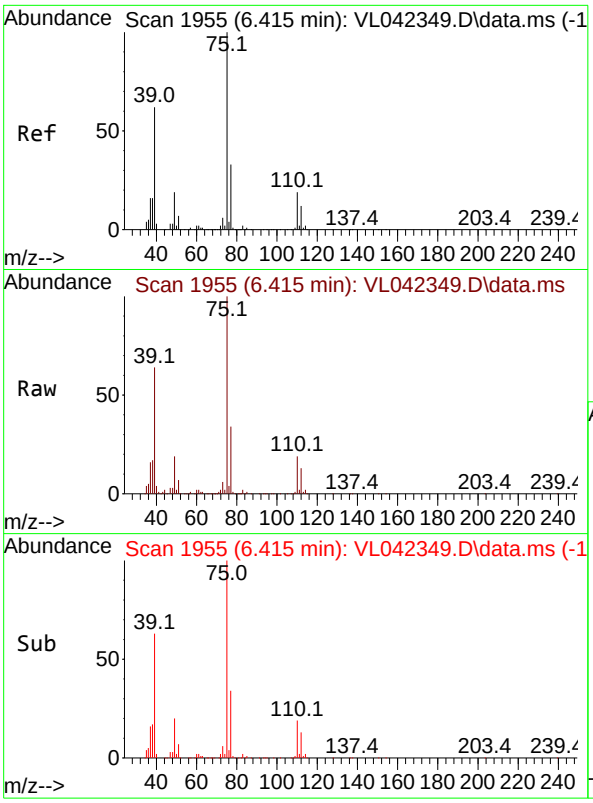


#44
2,2,4-Trimethylpentane
Concen: 9.157 ppbv
RT: 4.642 min Scan# 1407
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 57 Resp: 626085

Ion	Ratio	Lower	Upper
57	100		
41	34.0	27.2	40.8
56	32.1	25.7	38.5



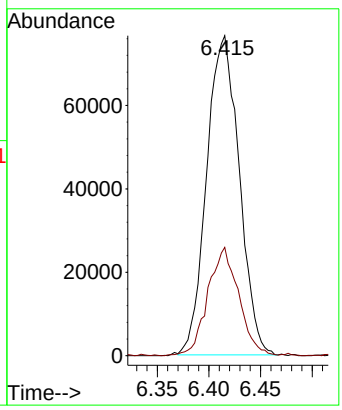


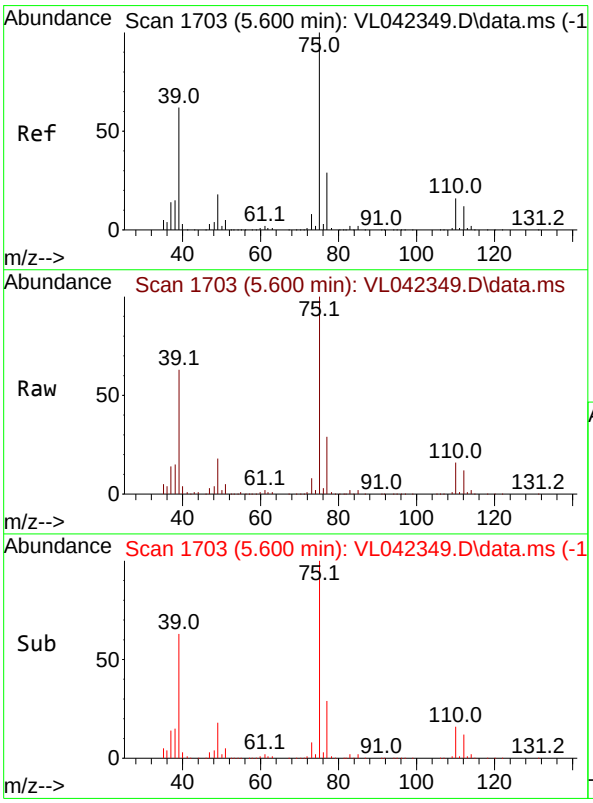
#45
t-1,3-Dichloropropene
Concen: 9.233 ppbv
RT: 6.415 min Scan# 1
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 75 Resp: 168223

Ion	Ratio	Lower	Upper
75	100		
77	33.8	27.0	40.6

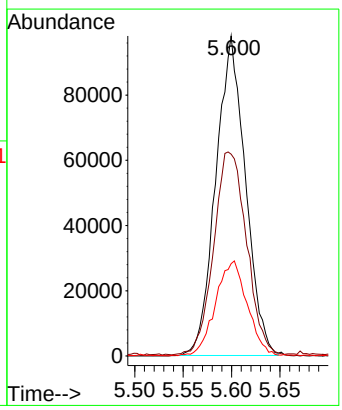


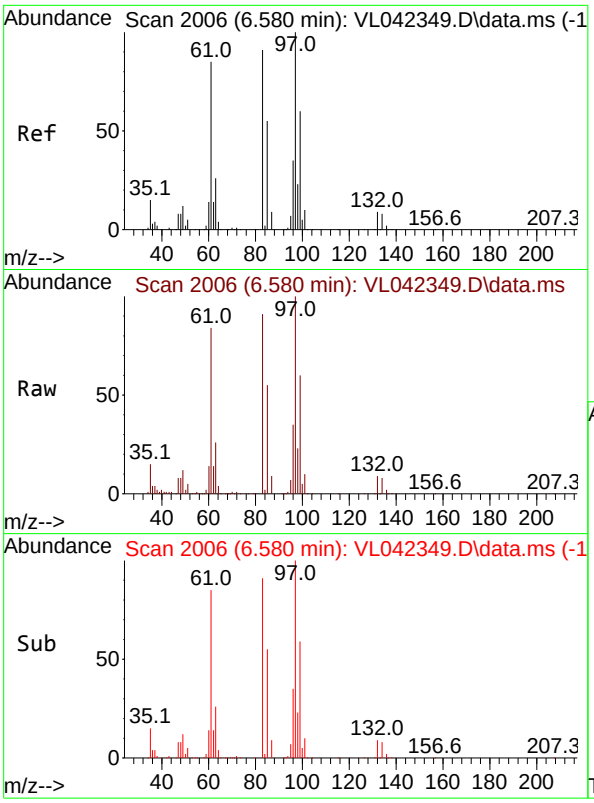


#46
cis-1,3-Dichloropropene
Concen: 9.377 ppbv
RT: 5.600 min Scan# 1703
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 75 Resp: 208811

Ion	Ratio	Lower	Upper
75	100		
39	62.5	50.0	75.0
77	28.8	23.0	34.6



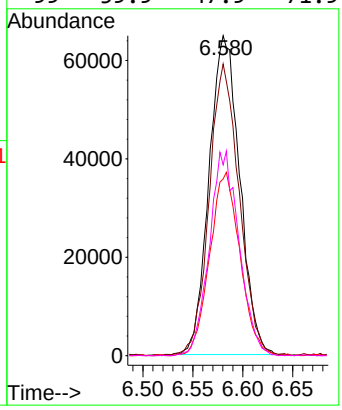


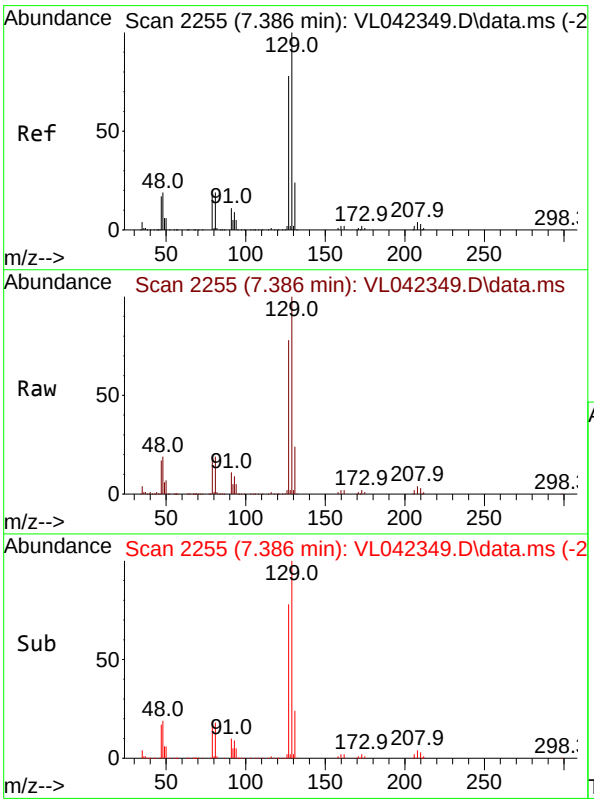
#47
1,1,2-Trichloroethane
Concen: 9.181 ppbv
RT: 6.580 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 97 Resp: 137898

Ion	Ratio	Lower	Upper
97	100		
83	91.0	72.8	109.2
85	55.3	44.2	66.4
99	59.9	47.9	71.9

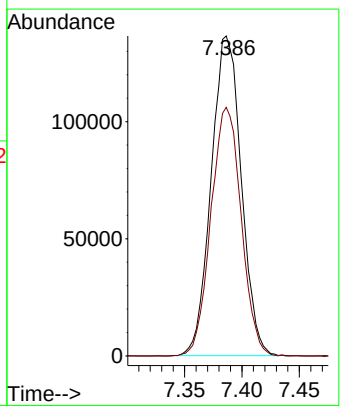


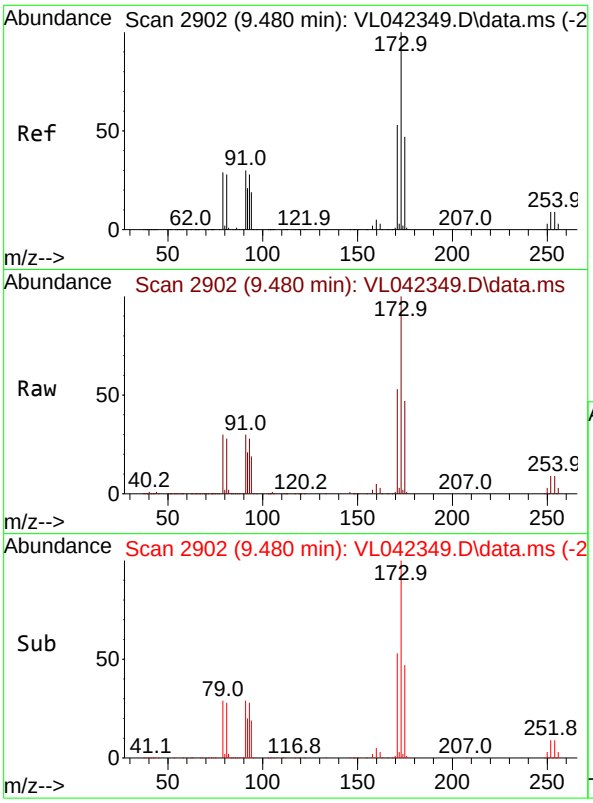


#48
Dibromochloromethane
Concen: 9.388 ppbv
RT: 7.386 min Scan# 2255
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion:129 Resp: 248954

Ion	Ratio	Lower	Upper
129	100		
127	78.2	39.1	117.3



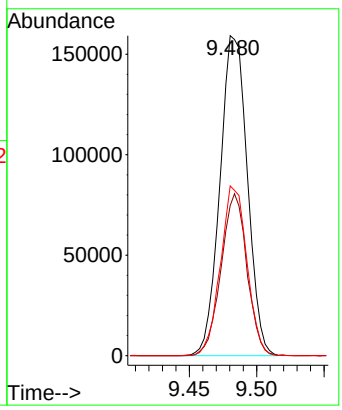


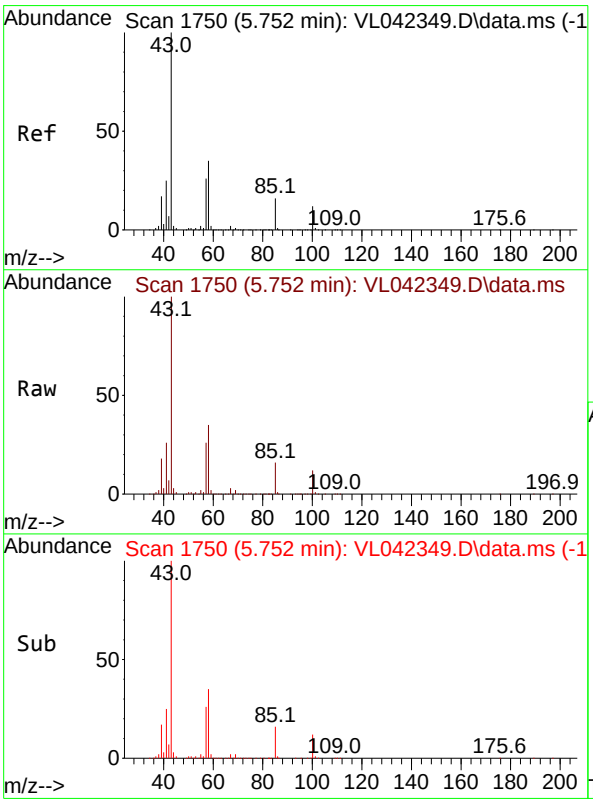
#49
Bromoform
Concen: 9.734 ppbv
RT: 9.480 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion:173 Resp: 225706

Ion	Ratio	Lower	Upper
173	100		
175	47.7	38.2	57.2
171	51.1	40.9	61.3

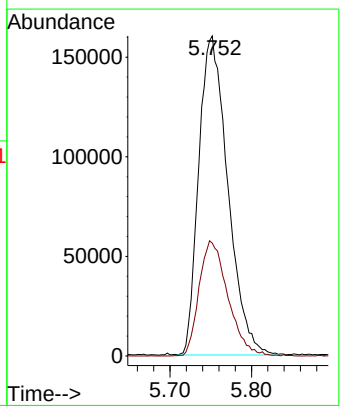


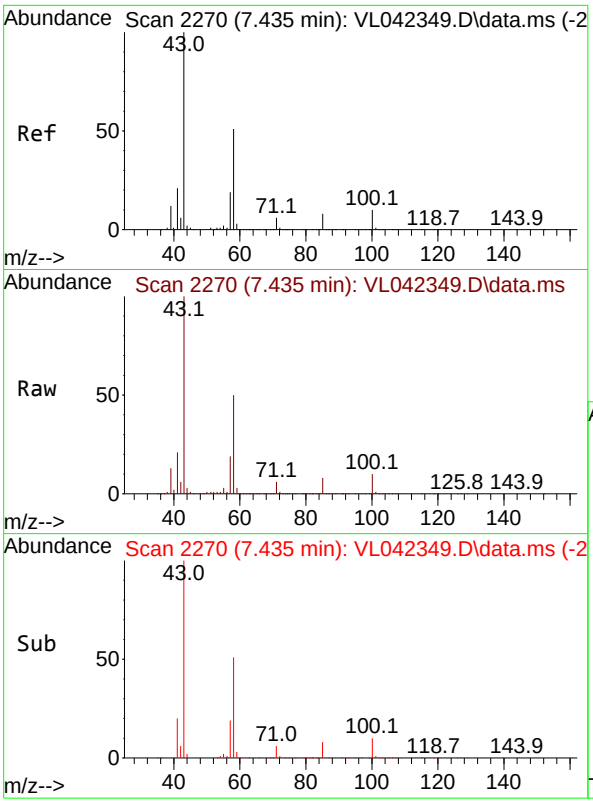


#50
4-Methyl-2-Pentanone
Concen: 8.215 ppbv
RT: 5.752 min Scan# 1750
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 43 Resp: 396548

Ion	Ratio	Lower	Upper
43	100		
58	35.8	28.6	43.0



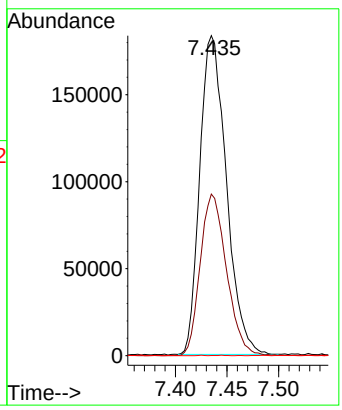


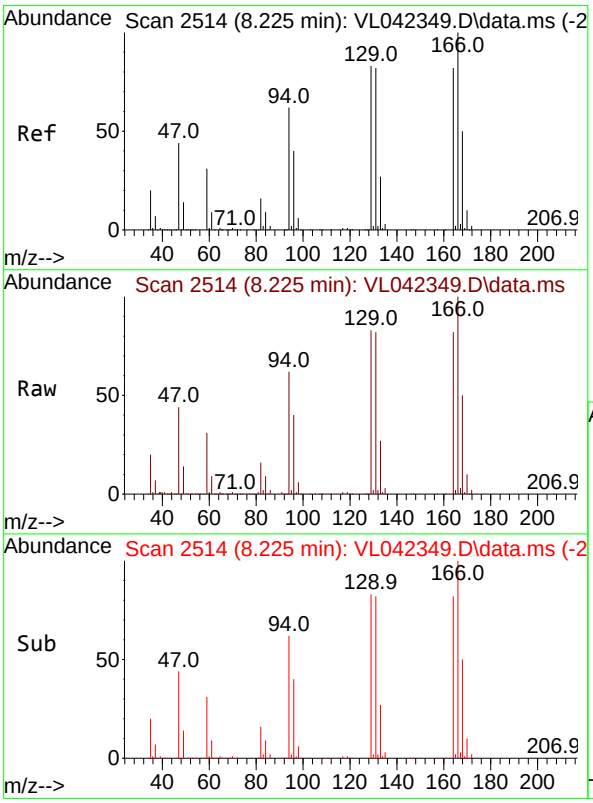
#51
2-Hexanone
Concen: 7.511 ppbv
RT: 7.435 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 43 Resp: 327165

Ion	Ratio	Lower	Upper
43	100		
58	50.3	40.2	60.4
98	0.1	0.1	0.1

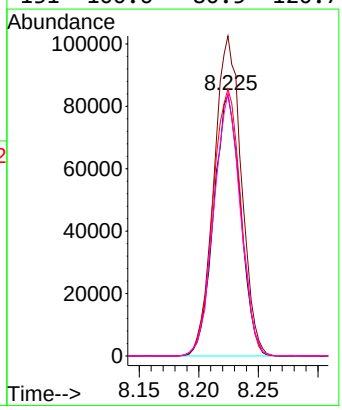


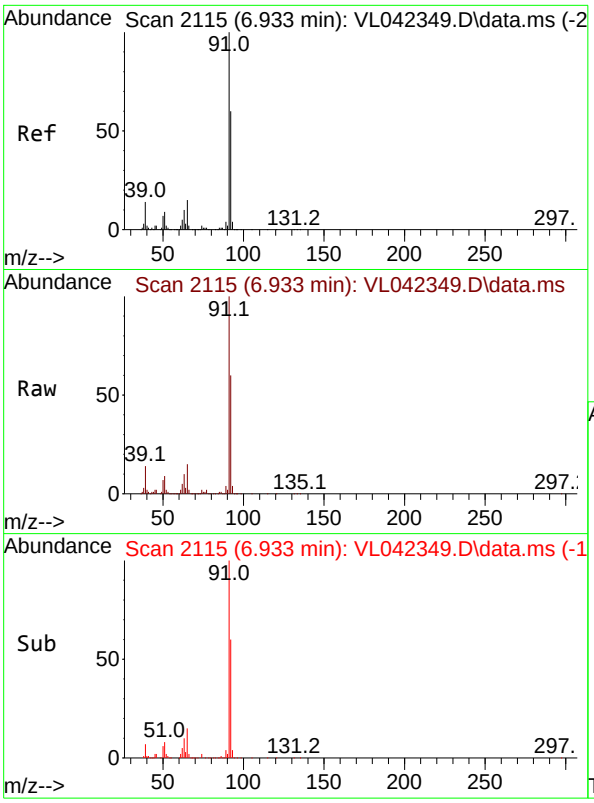


#52
Tetrachloroethene
Concen: 8.553 ppbv
RT: 8.225 min Scan# 2514
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion:164 Resp: 130720

Ion	Ratio	Lower	Upper
164	100		
166	122.7	98.2	147.2
129	102.3	81.8	122.8
131	100.6	80.5	120.7



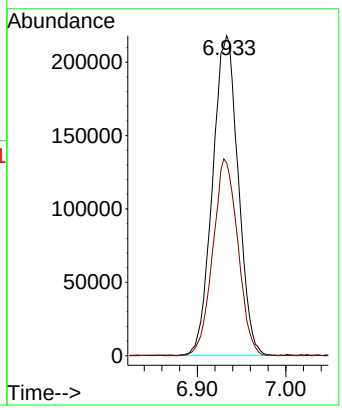


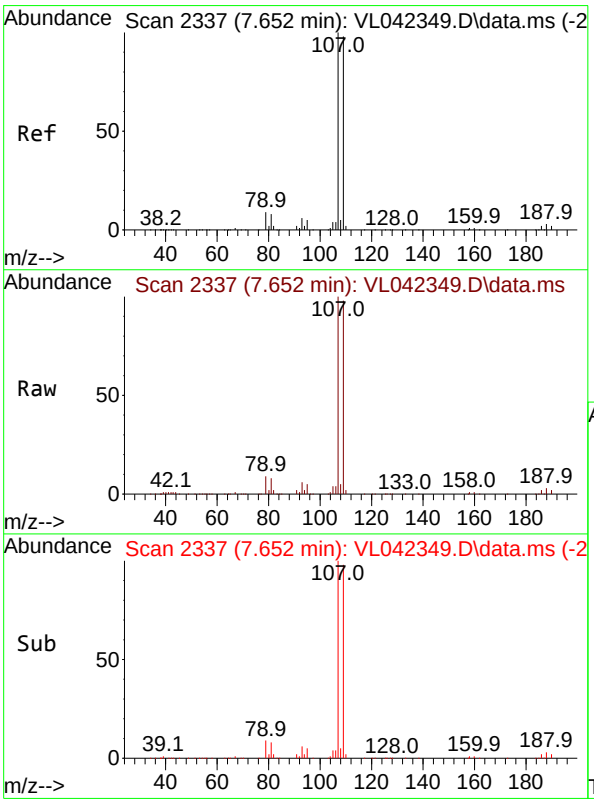
#53
Toluene
Concen: 9.216 ppbv
RT: 6.933 min Scan# 21
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 91 Resp: 437258

Ion	Ratio	Lower	Upper
91	100		
92	60.3	48.2	72.4

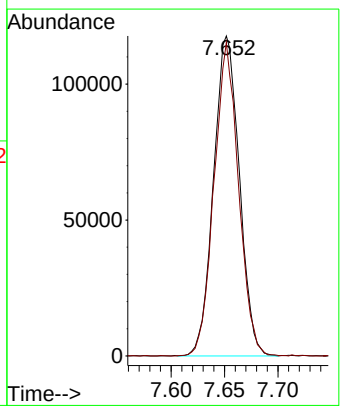


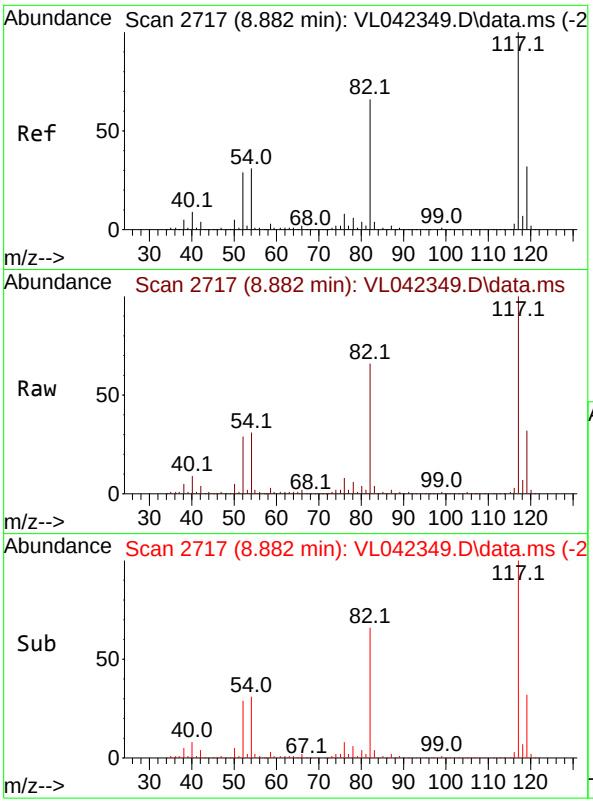


#54
1,2-Dibromoethane
Concen: 9.235 ppbv
RT: 7.652 min Scan# 2337
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion:107 Resp: 197665

Ion	Ratio	Lower	Upper
107	100		
109	97.8	78.2	117.4



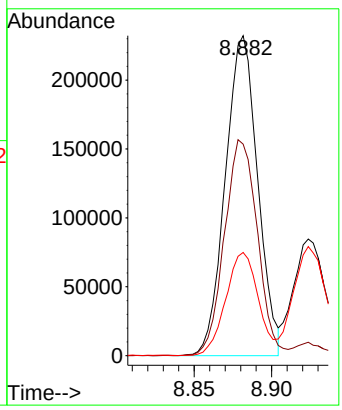


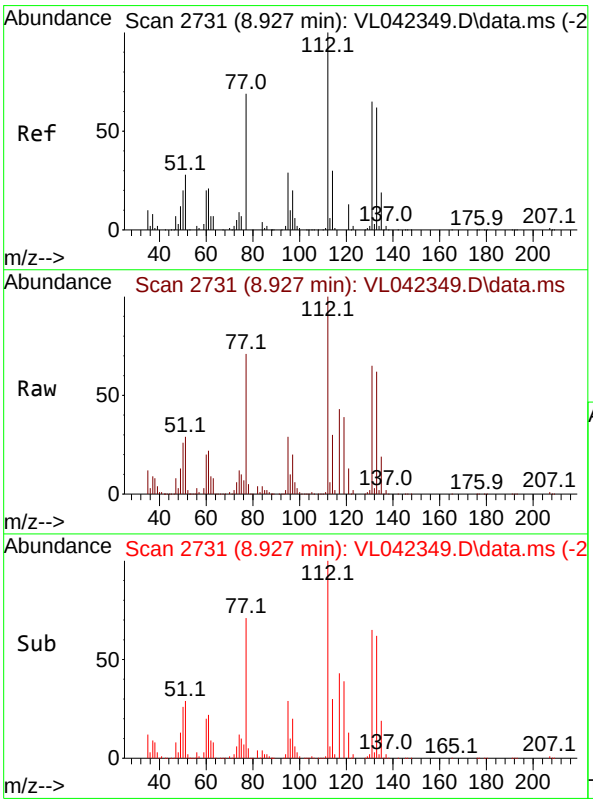
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.882 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion:117 Resp: 338126

Ion	Ratio	Lower	Upper
117	100		
82	72.2	57.8	86.6
119	31.5	25.2	37.8

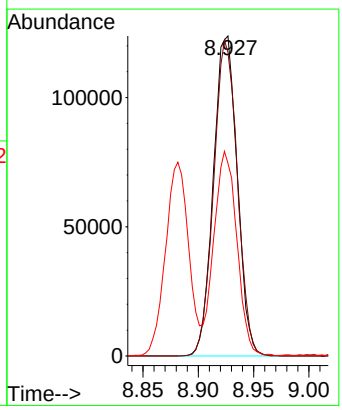


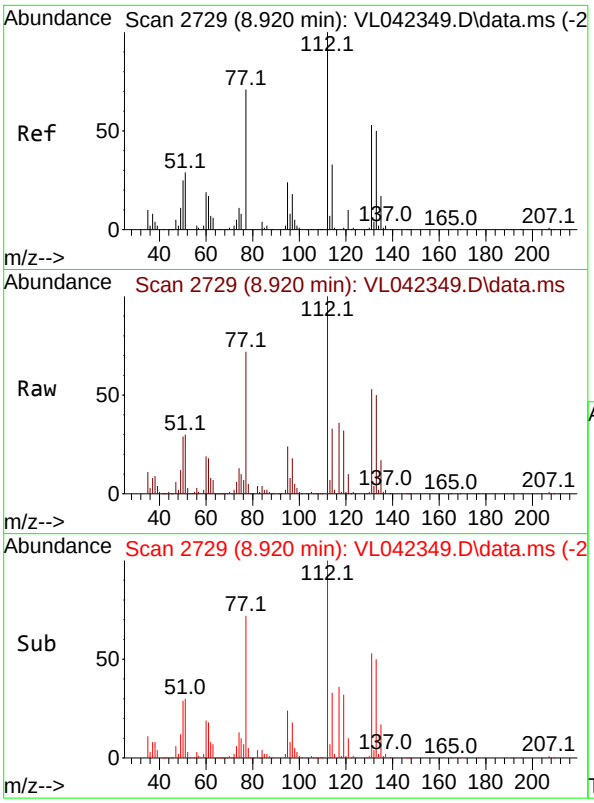


#56
1,1,1,2-Tetrachloroethane
Concen: 9.091 ppbv
RT: 8.927 min Scan# 2731
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion:131 Resp: 186041

Ion	Ratio	Lower	Upper
131	100		
133	97.9	78.3	117.5
119	60.9	48.7	73.1



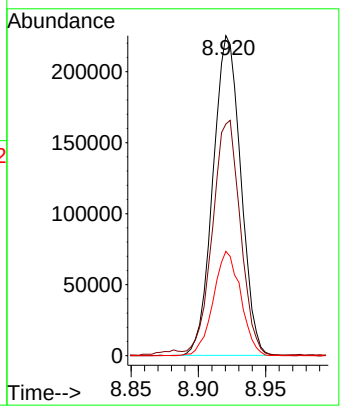


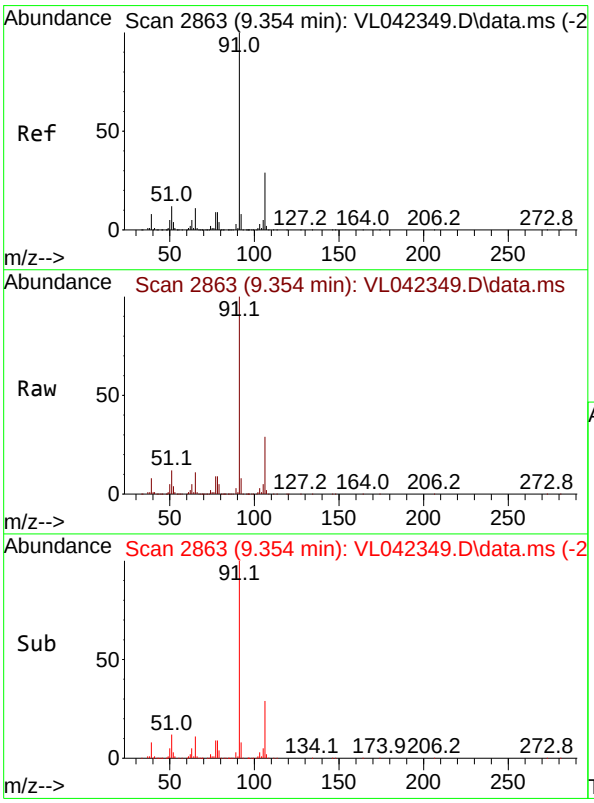
#57
Chlorobenzene
Concen: 9.187 ppbv
RT: 8.920 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion:112 Resp: 323084

Ion	Ratio	Lower	Upper
112	100		
77	72.2	57.8	86.6
114	32.6	29.3	35.9

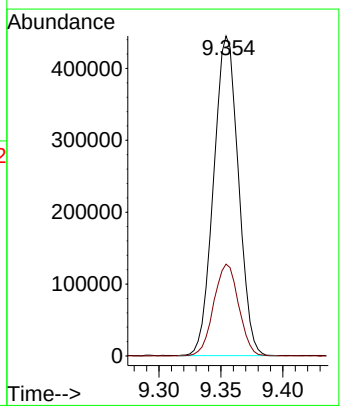


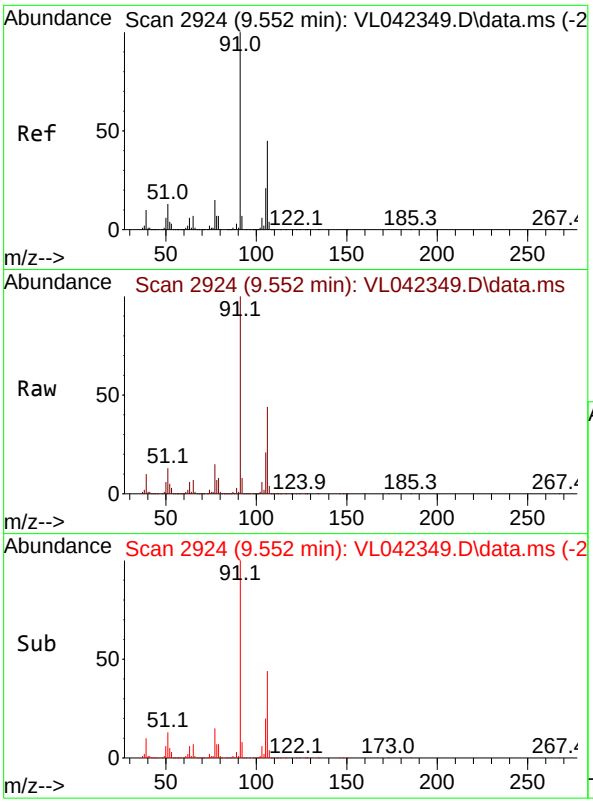


#58
Ethyl Benzene
Concen: 9.248 ppbv
RT: 9.354 min Scan# 2863
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 91 Resp: 619581

Ion	Ratio	Lower	Upper
91	100		
106	28.7	23.0	34.4



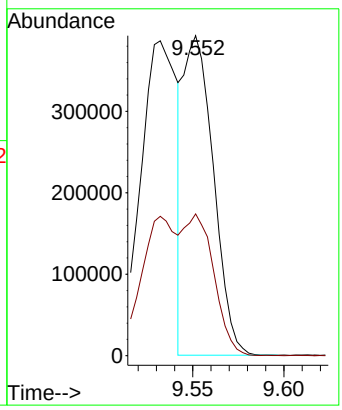


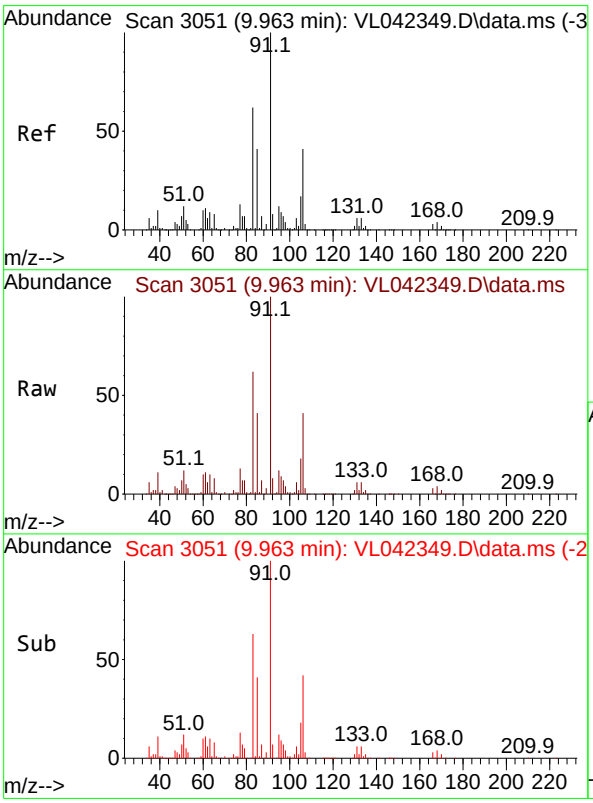
#59
m/p-Xylene
Concen: 8.299 ppbv
RT: 9.552 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 91 Resp: 449222

Ion	Ratio	Lower	Upper
91	100		
106	97.0	35.4	53.2#

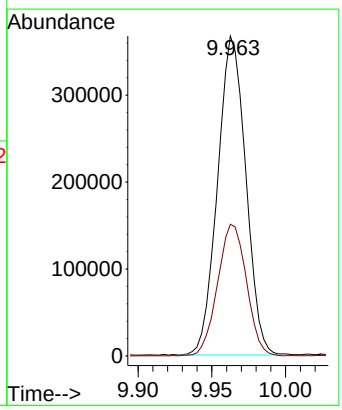


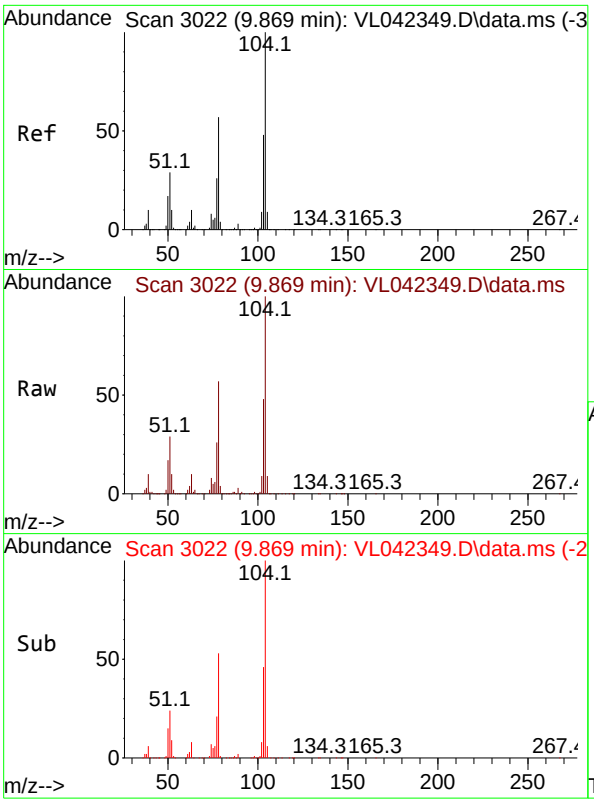


#60
o-Xylene
Concen: 8.972 ppbv
RT: 9.963 min Scan# 3051
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 91 Resp: 487616

Ion	Ratio	Lower	Upper
91	100		
106	42.3	21.1	63.4



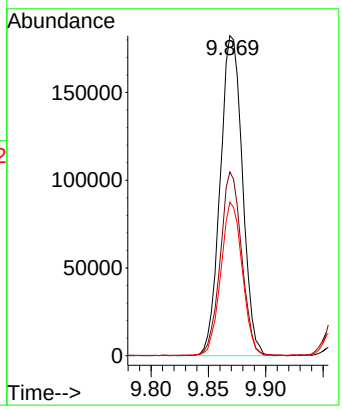


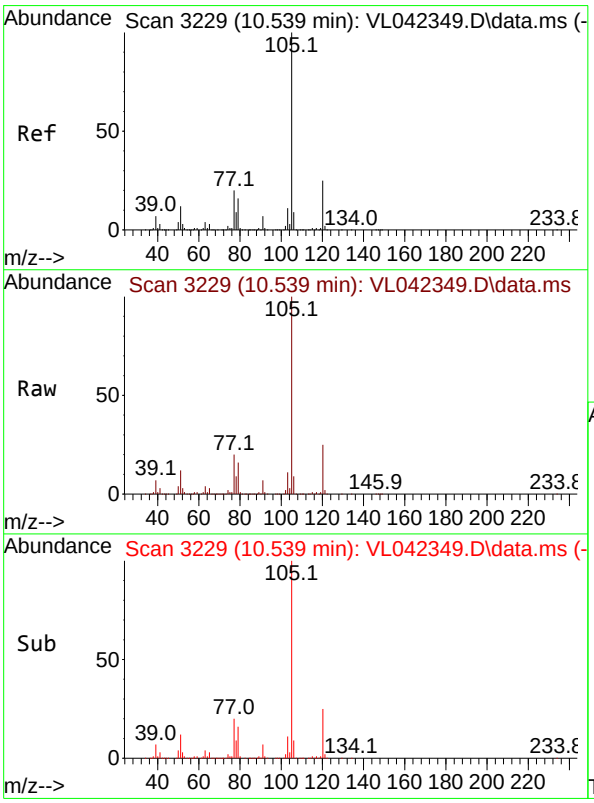
#61
Styrene
Concen: 9.464 ppbv
RT: 9.869 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion:104 Resp: 245487

Ion	Ratio	Lower	Upper
104	100		
78	55.7	44.6	66.8
103	46.7	37.4	56.0

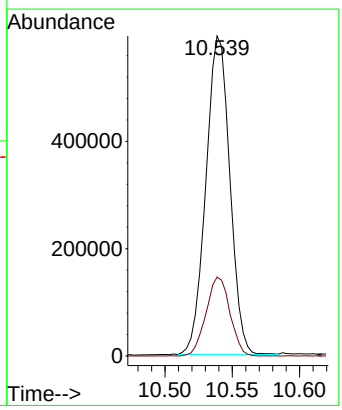


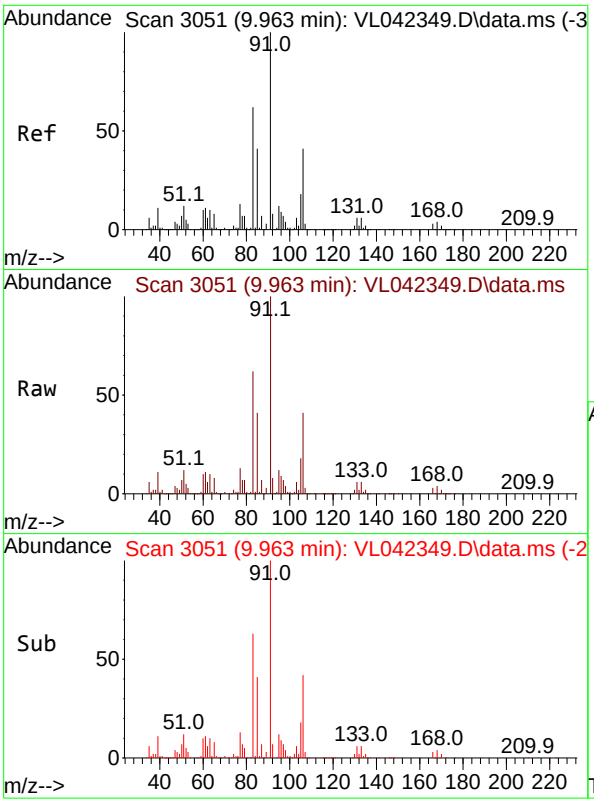


#62
Isopropylbenzene
Concen: 9.197 ppbv
RT: 10.539 min Scan# 3229
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion:105 Resp: 733788

Ion	Ratio	Lower	Upper
105	100		
120	24.8	19.8	29.8



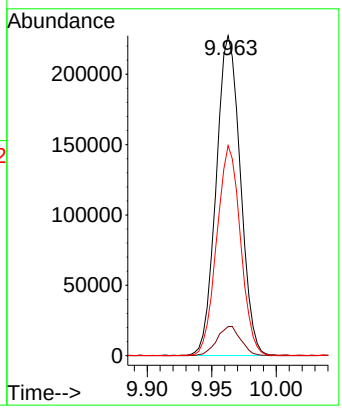


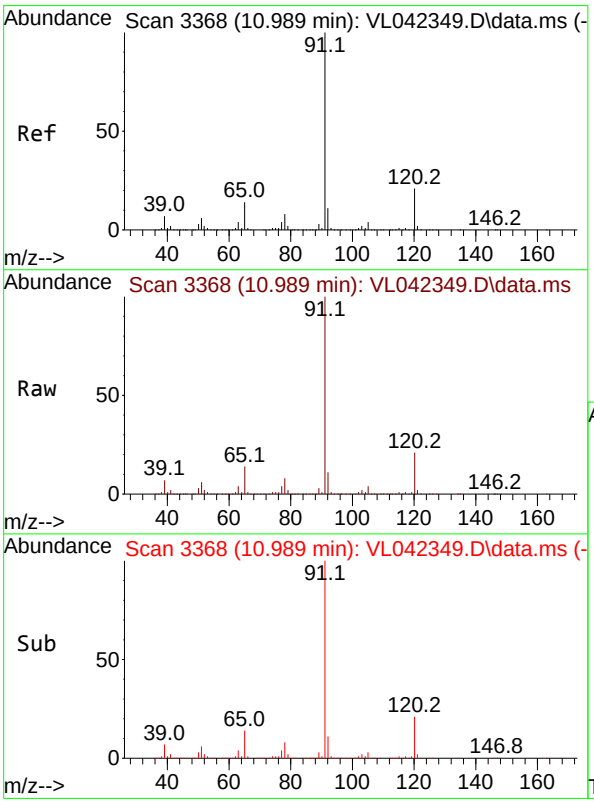
#63
1,1,2,2-Tetrachloroethane
Concen: 8.355 ppbv
RT: 9.963 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 83 Resp: 295041

Ion	Ratio	Lower	Upper
83	100		
131	9.1	4.5	13.7
85	64.7	32.4	97.0

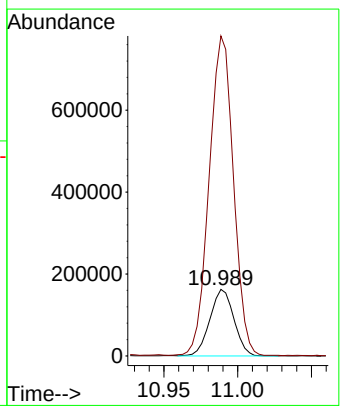


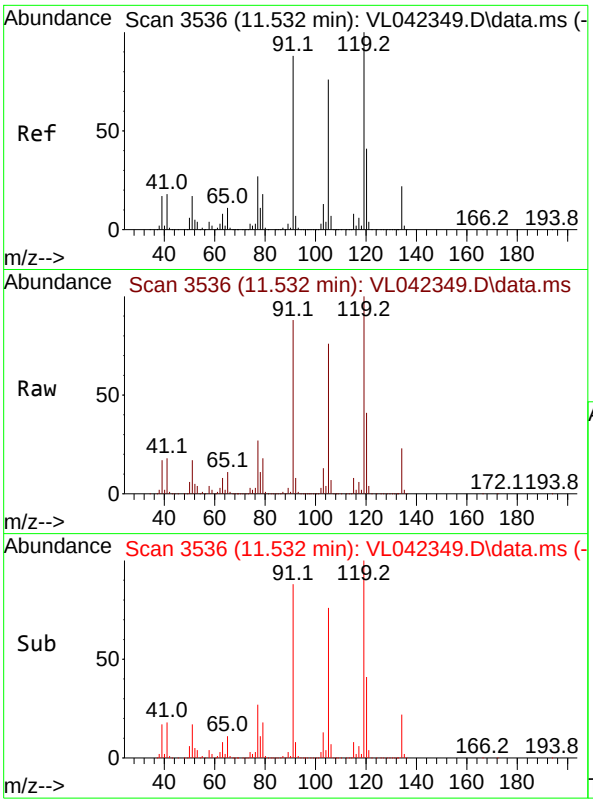


#64
n-propylbenzene
Concen: 9.144 ppbv
RT: 10.989 min Scan# 3368
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion:120 Resp: 183390

Ion	Ratio	Lower	Upper
120	100		
91	490.5	392.4	588.6



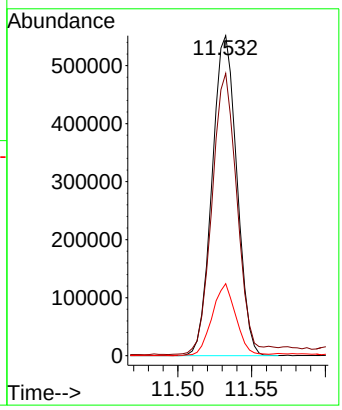


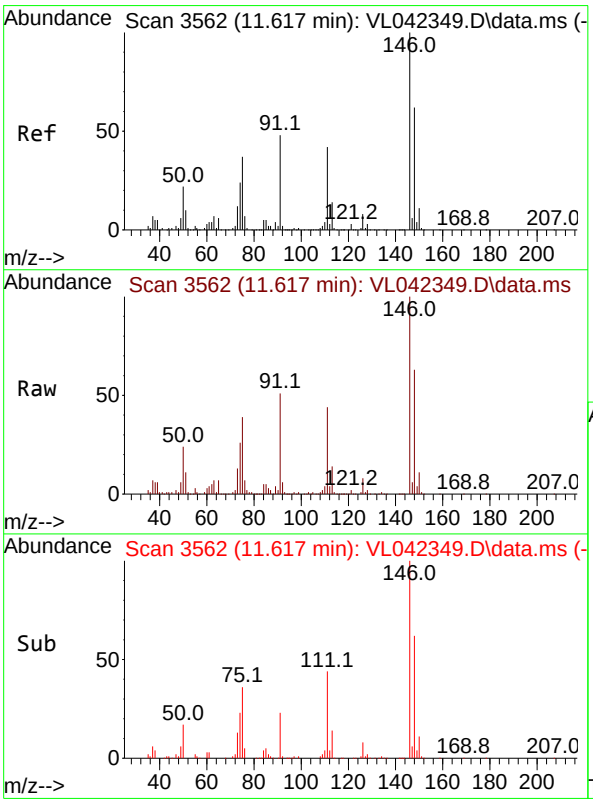
#65
tert-Butylbenzene
Concen: 8.795 ppbv
RT: 11.532 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion:119 Resp: 644953

Ion	Ratio	Lower	Upper
119	100		
91	93.2	74.6	111.8
134	23.5	18.8	28.2

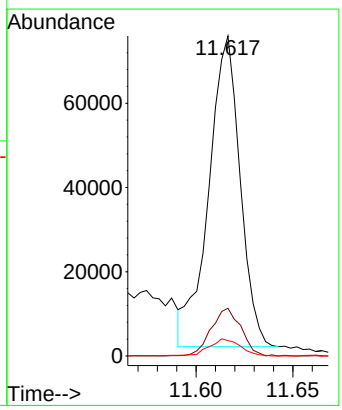


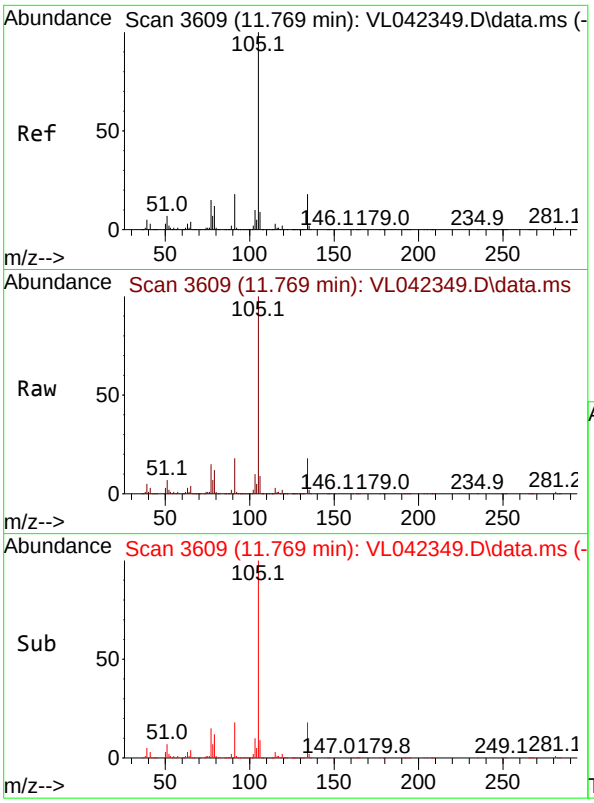


#66
Benzyl Chloride
Concen: 10.333 ppbv
RT: 11.617 min Scan# 3562
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 91 Resp: 83269

Ion	Ratio	Lower	Upper
91	100		
126	14.7	11.8	17.6
128	5.6	4.5	6.7



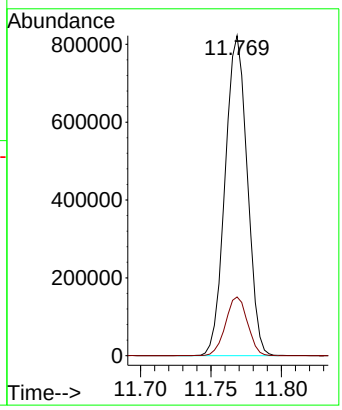


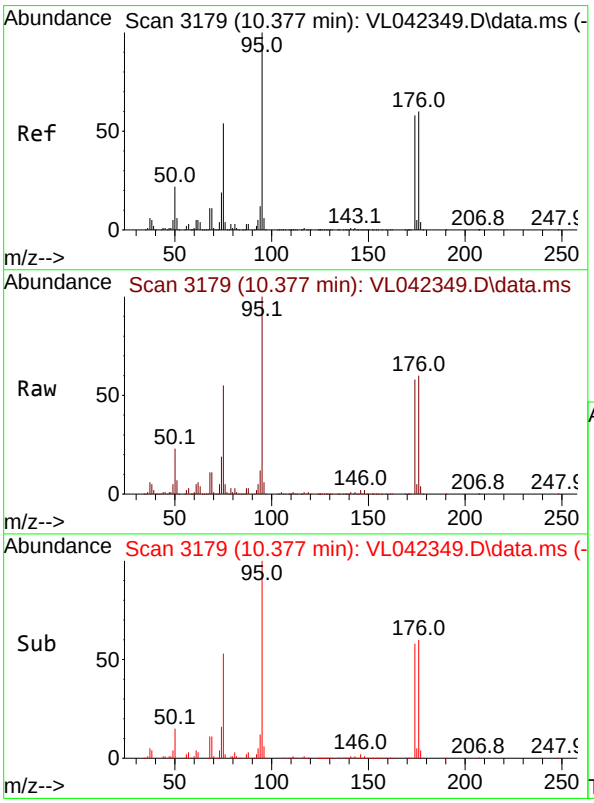
#67
sec-Butylbenzene
Concen: 8.824 ppbv
RT: 11.769 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion:105 Resp: 900074

Ion	Ratio	Lower	Upper
105	100		
134	18.2	14.6	21.8

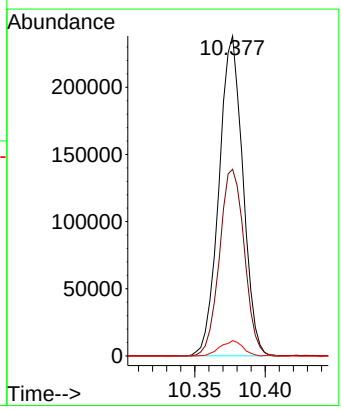


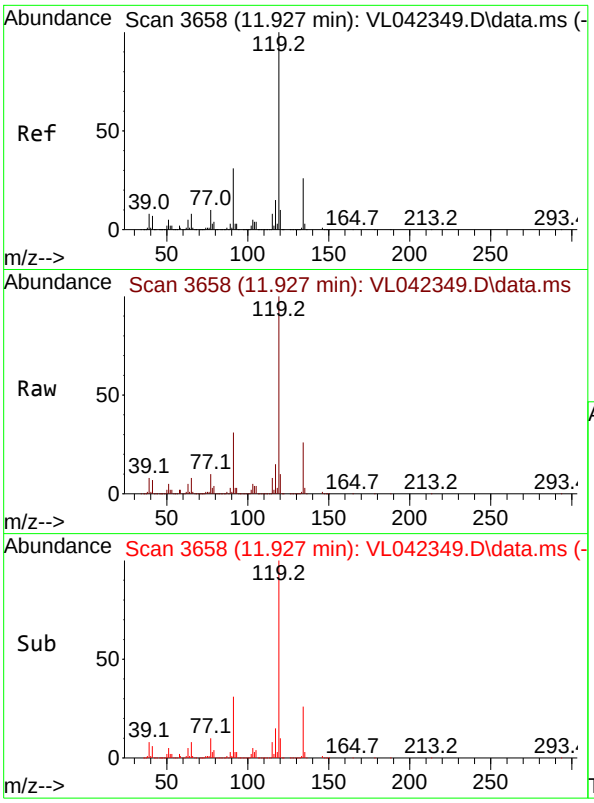


#68
1-Bromo-4-Fluorobenzene
Concen: 10.114 ppbv
RT: 10.377 min Scan# 3179
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 95 Resp: 281013

Ion	Ratio	Lower	Upper
95	100		
174	60.6	48.5	72.7
175	4.6	3.7	5.5



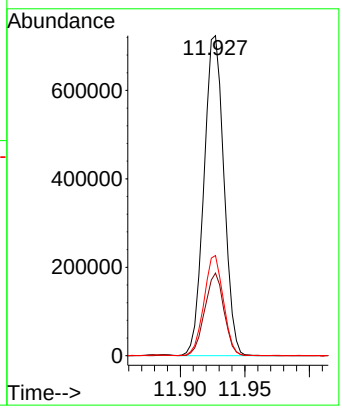


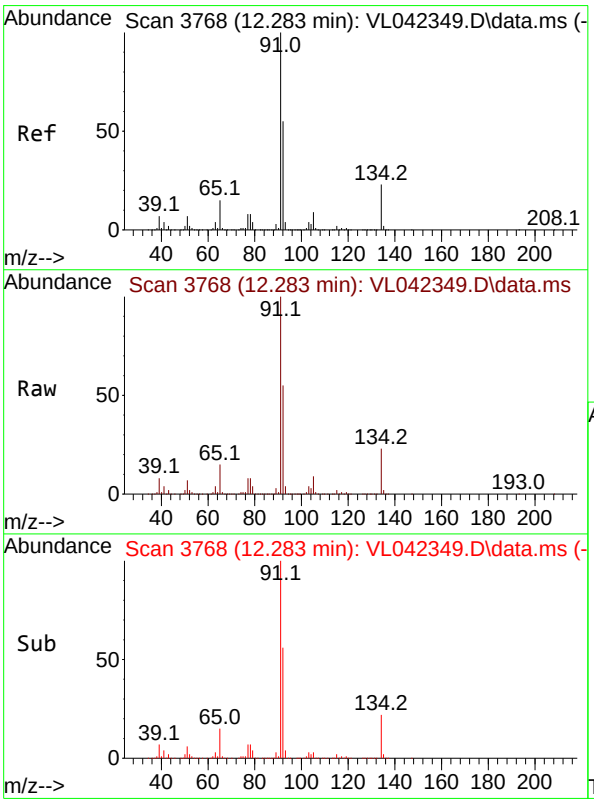
#69
p-Isopropyltoluene
Concen: 8.790 ppbv
RT: 11.927 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion:119 Resp: 778987

Ion	Ratio	Lower	Upper
119	100		
134	25.0	20.0	30.0
91	30.5	24.4	36.6

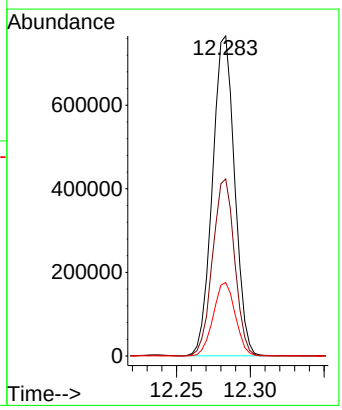


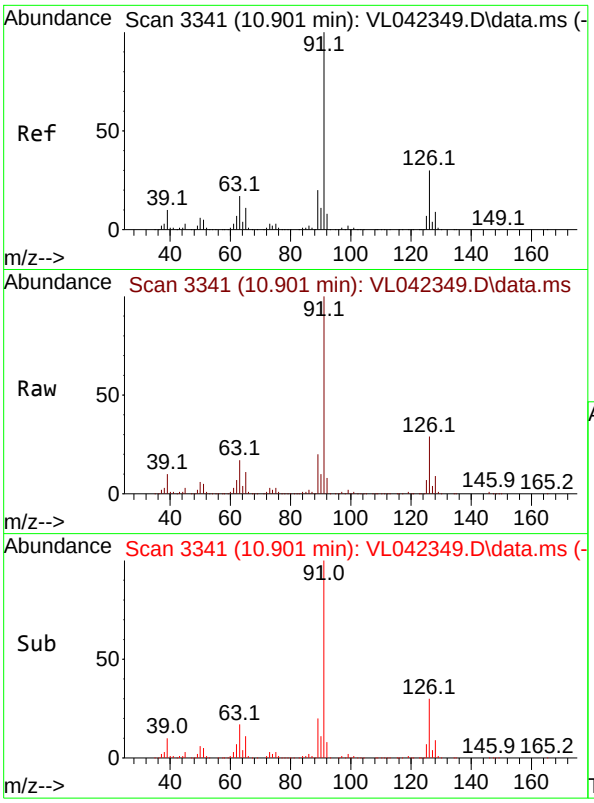


#70
n-Butylbenzene
Concen: 8.682 ppbv
RT: 12.283 min Scan# 3768
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 91 Resp: 801364

Ion	Ratio	Lower	Upper
91	100		
92	55.3	44.2	66.4
134	22.8	18.2	27.4



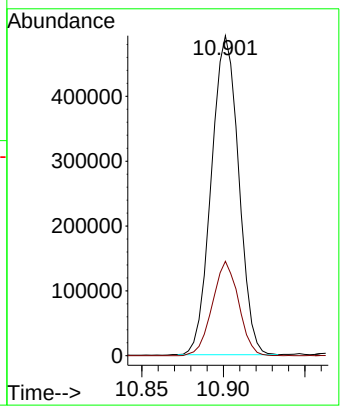


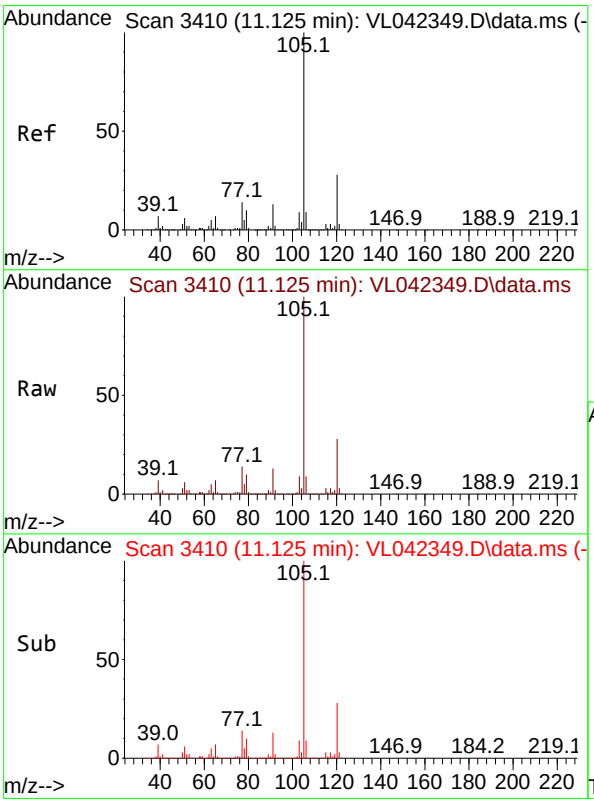
#71
2-Chlorotoluene
Concen: 9.157 ppbv
RT: 10.901 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 91 Resp: 573039

Ion	Ratio	Lower	Upper
91	100		
126	28.4	11.4	45.4

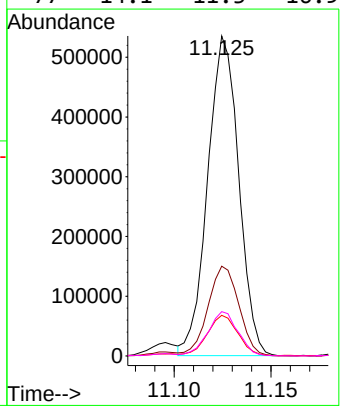


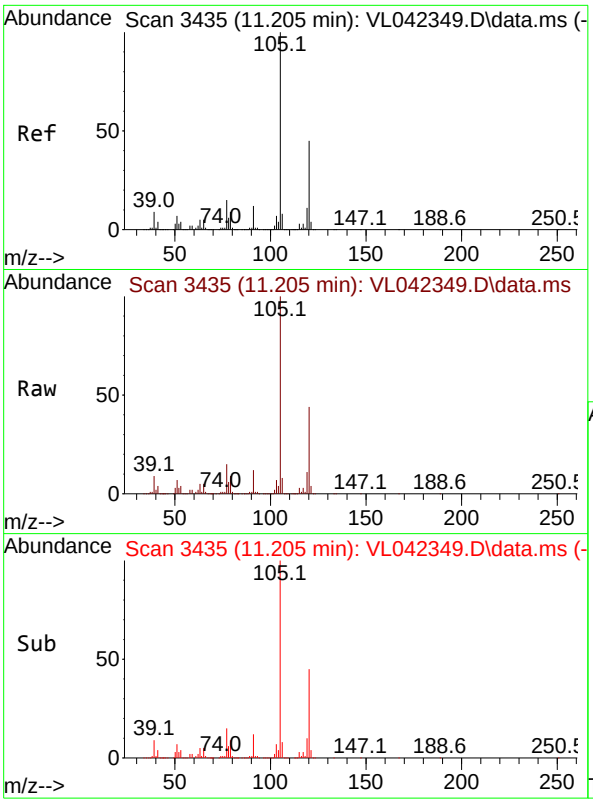


#72
4-Ethyltoluene
Concen: 8.982 ppbv
RT: 11.125 min Scan# 3410
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion:105 Resp: 596757

Ion	Ratio	Lower	Upper
105	100		
120	29.0	23.2	34.8
91	13.0	10.4	15.6
77	14.1	11.3	16.9



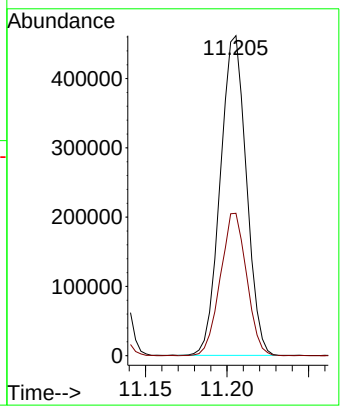


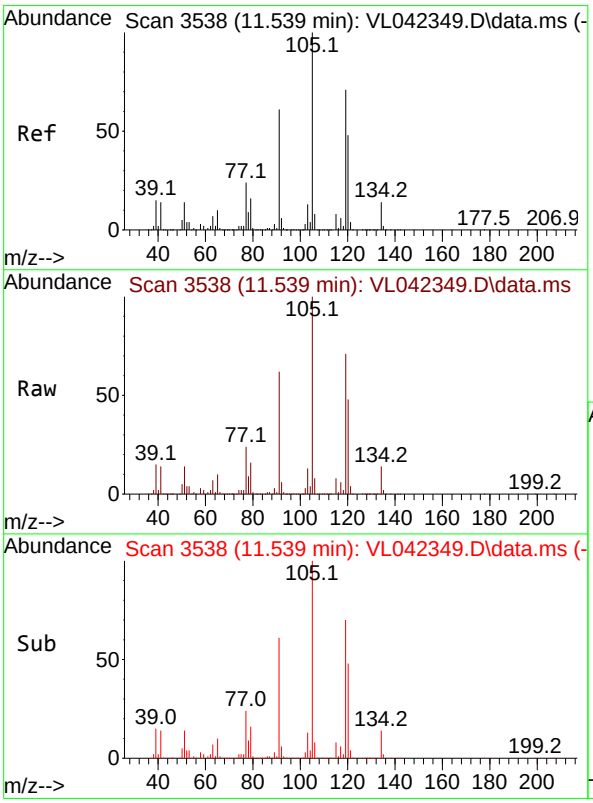
#73
1,3,5-Trimethylbenzene
Concen: 8.743 ppbv
RT: 11.205 min Scan# 34
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion:105 Resp: 512855

Ion	Ratio	Lower	Upper
105	100		
120	44.5	35.6	53.4

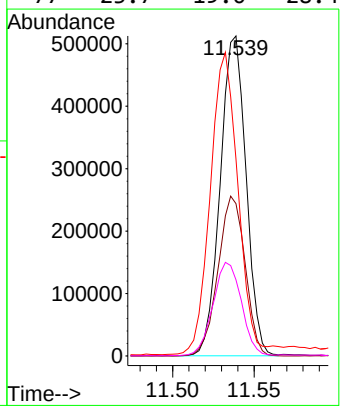


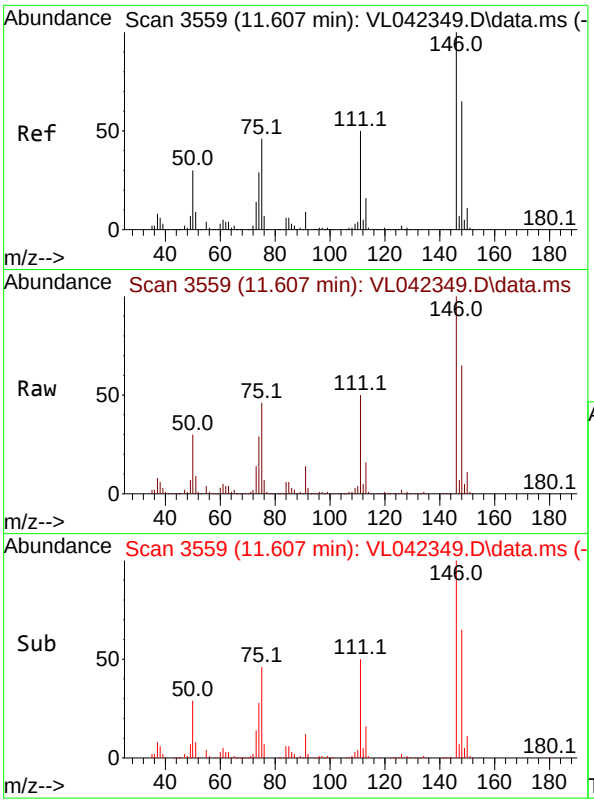


#74
1,2,4-Trimethylbenzene
Concen: 8.248 ppbv
RT: 11.539 min Scan# 3538
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion:105 Resp: 565064

Ion	Ratio	Lower	Upper
105	100		
120	47.6	38.1	57.1
91	61.0	48.8	73.2
77	23.7	19.0	28.4



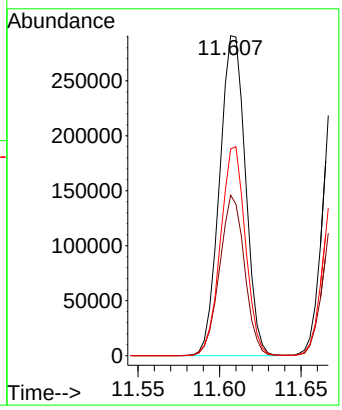


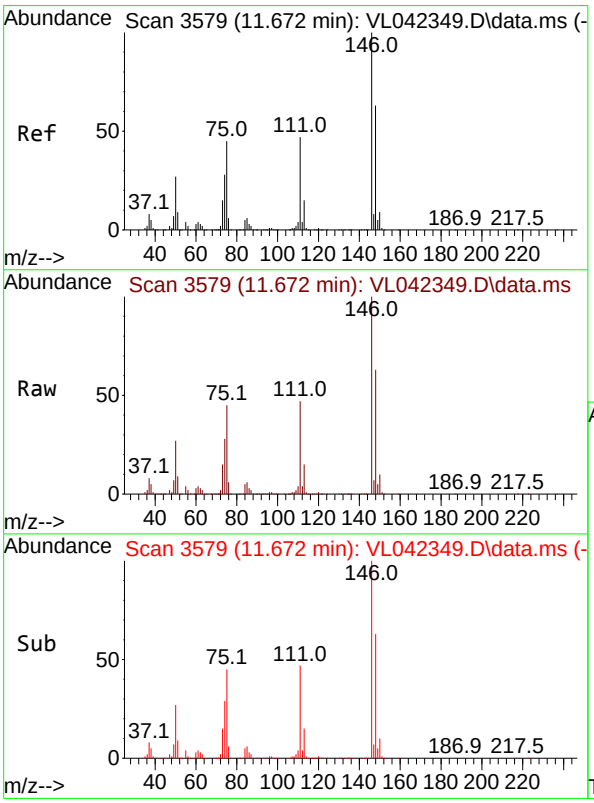
#75
1,3-Dichlorobenzene
Concen: 8.997 ppbv
RT: 11.607 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion:146 Resp: 320380

Ion	Ratio	Lower	Upper
146	100		
111	48.5	24.3	72.8
148	63.2	31.6	94.8

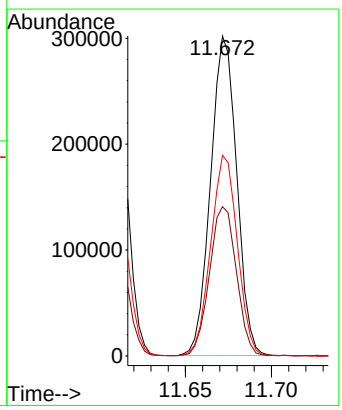


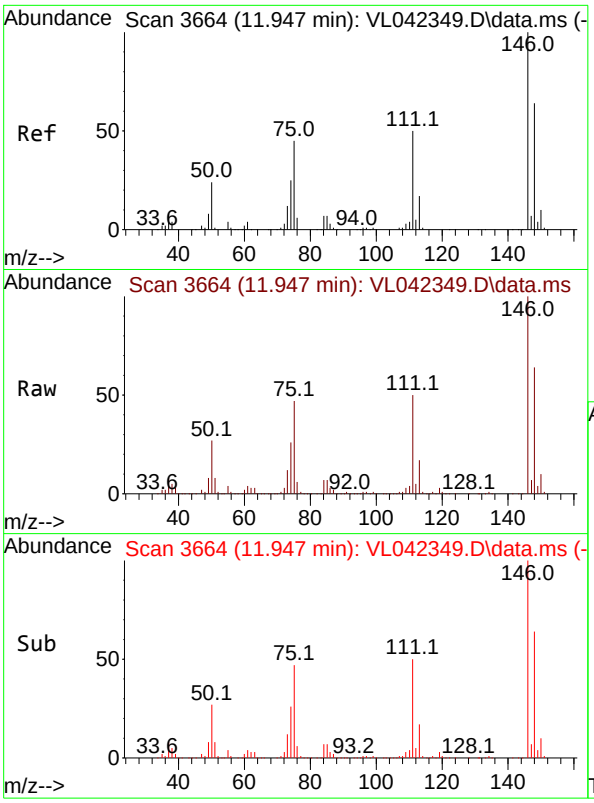


#76
1,4-Dichlorobenzene
Concen: 8.915 ppbv
RT: 11.672 min Scan# 3579
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion:146 Resp: 319089

Ion	Ratio	Lower	Upper
146	100		
111	48.4	24.2	72.6
148	64.3	32.1	96.5



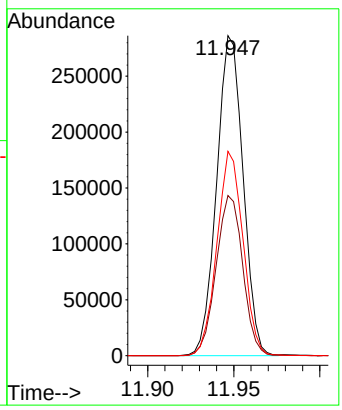


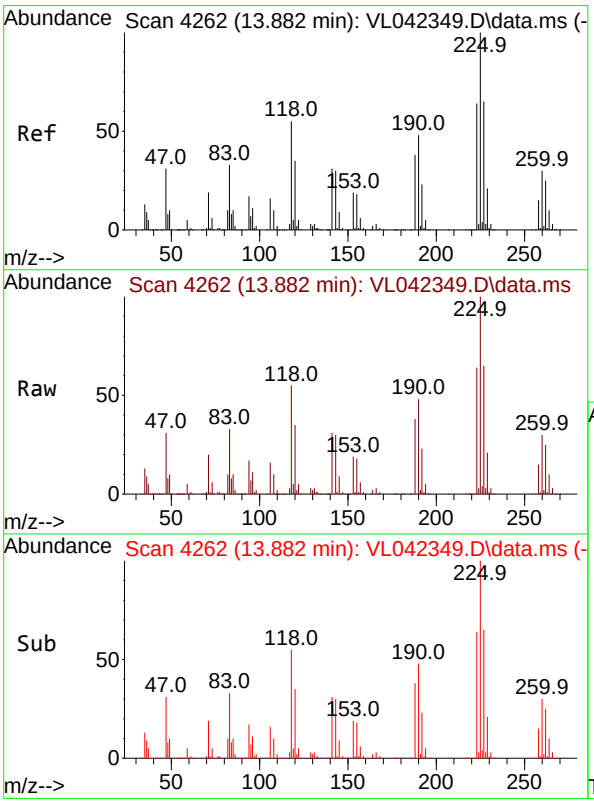
#77
1,2-Dichlorobenzene
Concen: 8.832 ppbv
RT: 11.947 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion:146 Resp: 305822

Ion	Ratio	Lower	Upper
146	100		
111	50.6	25.3	75.9
148	63.0	31.5	94.5

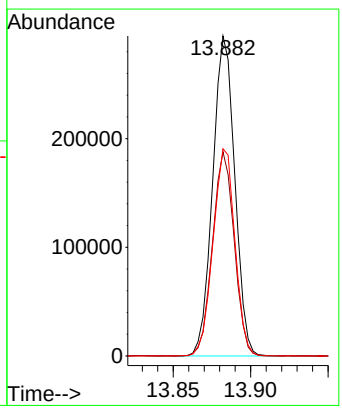


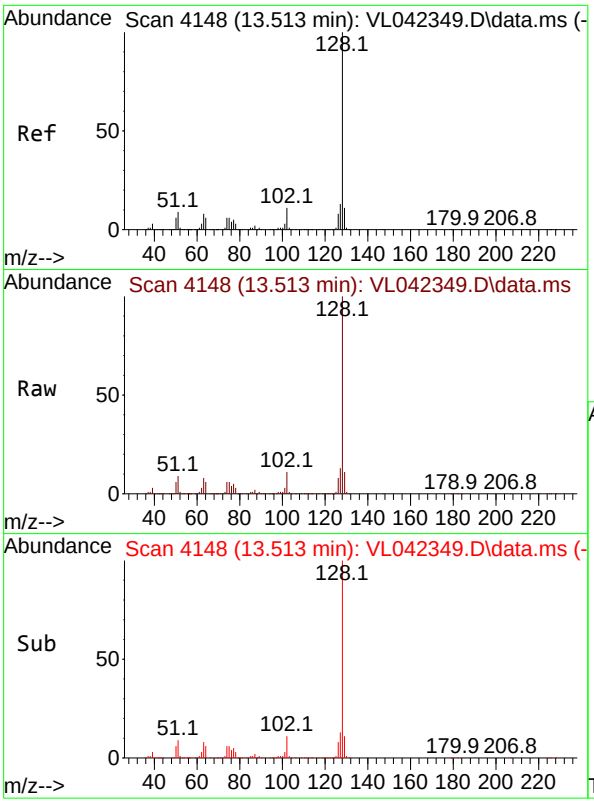


#78
Hexachloro-1,3-Butadiene
Concen: 8.346 ppbv
RT: 13.882 min Scan# 4262
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion:225 Resp: 291833

Ion	Ratio	Lower	Upper
225	100		
223	62.9	50.3	75.5
227	64.4	51.5	77.3



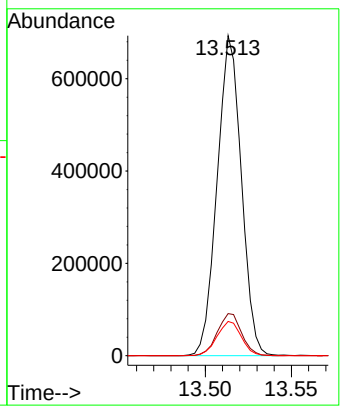


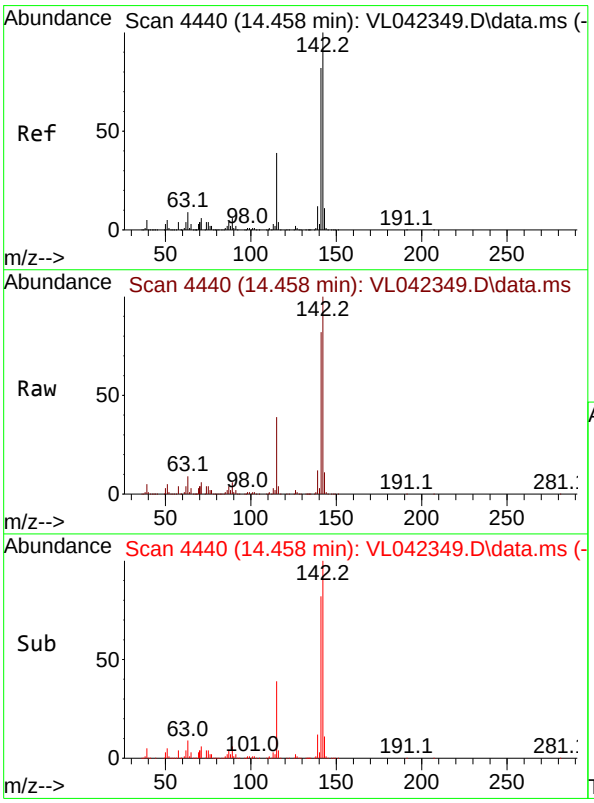
#79
Naphthalene
Concen: 8.271 ppbv
RT: 13.513 min Scan# 41
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion:128 Resp: 677578

Ion	Ratio	Lower	Upper
128	100		
127	13.2	10.6	15.8
129	10.7	8.6	12.8

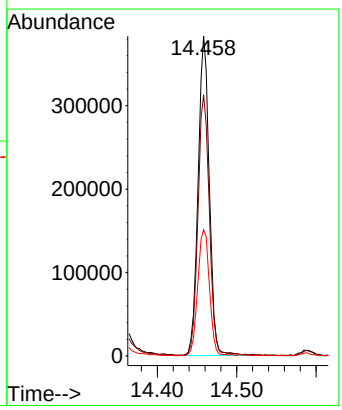


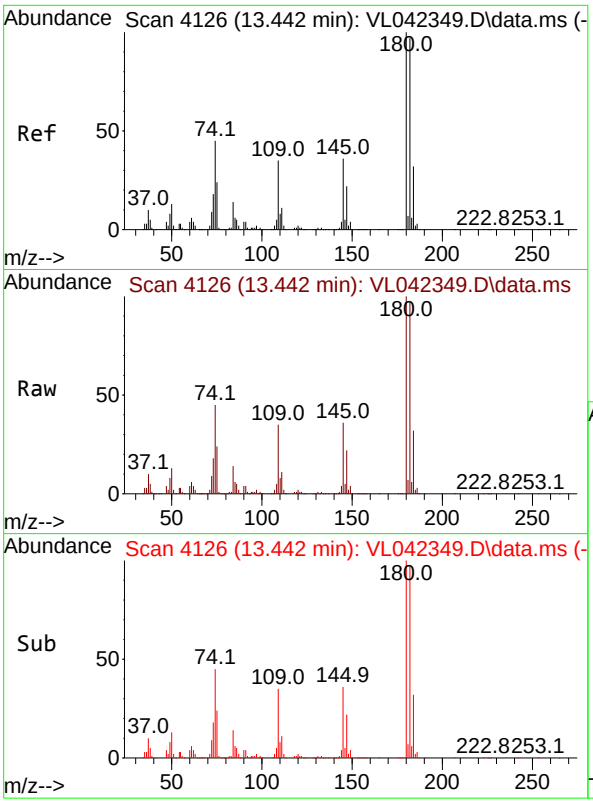


#80
Naphthalene,2-methyl-
Concen: 8.074 ppbv
RT: 14.458 min Scan# 4440
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion:142 Resp: 376995

Ion	Ratio	Lower	Upper
142	100		
141	83.5	66.8	100.2
115	41.8	33.4	50.2



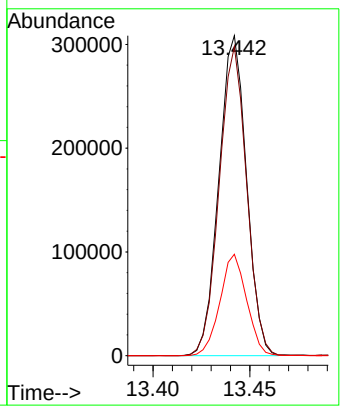


#81
1,2,4-Trichlorobenzene
Concen: 8.702 ppbv
RT: 13.442 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion:180 Resp: 306119

Ion	Ratio	Lower	Upper
180	100		
182	96.0	76.8	115.2
184	30.7	24.6	36.8



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042350.D
Acq On : 17 Apr 2025 10:17
Operator : SY/MD
Sample : VSTDICC002
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Quant Time: Apr 18 01:26:23 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Apr 18 01:24:29 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.787	49	123206	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.959	114	355918	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.881	117	335603	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.377	95	275715	9.998	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 100.000%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.499	85	45008	2.068	ppbv		95
3) Chlorodifluoromethane	1.476	51	41853	2.019	ppbv		97
4) Chloromethane	1.534	50	17272	2.005	ppbv		93
5) Vinyl Chloride	1.580	62	16979	1.811	ppbv		92
6) Bromomethane	1.667	94	7398	1.821	ppbv	#	80
7) Chloroethane	1.706	64	6889	2.031	ppbv		98
8) Dichlorotetrafluoroethane	1.554	85	38955	2.084	ppbv		98
9) Propene	1.483	41	18671	1.978	ppbv		97
10) Heptane	4.978	43	34658	1.364	ppbv	#	62
11) Trichlorofluoromethane	1.877	101	43035	2.079	ppbv		99
12) 1,1,2-Trichlorotrifluo...	2.140	101	35415	2.092	ppbv		100
13) Ethanol	1.722	45	1417	1.837	ppbv		59
14) Bromoethene	1.780	108	13049	2.045	ppbv	#	92
15) Acetone	1.835	43	42949	2.129	ppbv		93
16) 1,3-Butadiene	1.609	39	18110	1.912	ppbv		96
17) tert-Butyl alcohol	2.042	59	51829	2.074	ppbv	#	94
18) 1,1-Dichloroethene	2.036	96	15690	1.928	ppbv		87
19) Isopropyl Alcohol	1.887	45	22106	1.973	ppbv	#	38
20) Methylene Chloride	2.062	84	14329	1.814	ppbv	#	82
21) Allyl Chloride	2.098	41	27340	1.963	ppbv		95
22) trans-1,2-Dichloroethene	2.340	96	18142	2.015	ppbv		97
23) Vinyl Acetate	2.463	43	18454	2.260	ppbv	#	91
24) 1,1-Dichloroethane	2.411	63	34077	1.993	ppbv		96
25) Ethyl Acetate	2.835	43	101467	2.040	ppbv		99
26) Hexane	2.826	57	40046	1.990	ppbv		99
27) Carbon Disulfide	2.149	76	43975	2.041	ppbv	#	64
28) Methyl tert-Butyl Ether	2.441	73	27905	2.116	ppbv		97
29) Chloroform	2.848	83	58946	2.072	ppbv		100
30) Cyclohexane	3.858	84	33195	2.048	ppbv		94
31) cis-1,2-Dichloroethene	2.722	61	39249	2.051	ppbv		98
32) 1,1,1-Trichloroethane	3.366	97	61442	2.014	ppbv		99
34) 2-Butanone	2.560	43	58249	2.069	ppbv		100
35) Carbon Tetrachloride	3.761	117	60291	1.872	ppbv		88
36) Benzene	3.658	78	79814	2.079	ppbv		98
37) 1,2-Dichloroethane	3.217	62	47398	2.057	ppbv		100
38) Trichloroethene	4.544	130	16602	0.986	ppbv		94
39) 1,2-Dichloropropane	4.315	63	28806	2.012	ppbv		96
40) 1,4-Dioxane	4.593	88	16026	2.067	ppbv	#	81
41) Tetrahydrofuran	3.059	42	33298	2.047	ppbv		98
42) Bromodichloromethane	4.489	83	64941	2.025	ppbv		97
43) Methyl Methacrylate	4.881	69	35256	2.046	ppbv		97
44) 2,2,4-Trimethylpentane	4.645	57	139641	2.103	ppbv		99
45) t-1,3-Dichloropropene	6.415	75	36265	2.050	ppbv		94

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042350.D
Acq On : 17 Apr 2025 10:17
Operator : SY/MD
Sample : VSTDICC002
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Quant Time: Apr 18 01:26:23 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Apr 18 01:24:29 2025
Response via : Initial Calibration

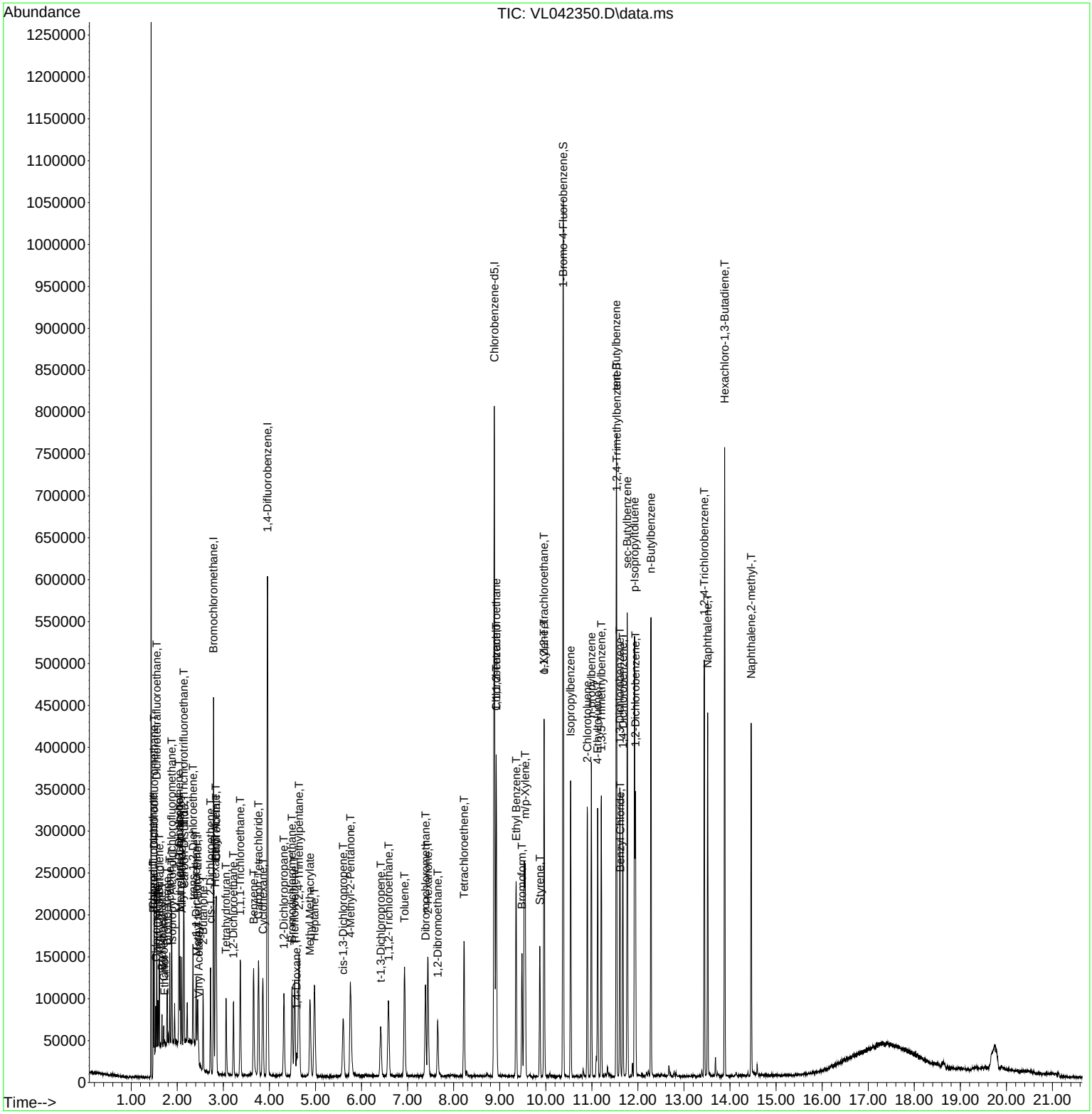
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) cis-1,3-Dichloropropene	5.600	75	25569	1.183	ppbv		90
47) 1,1,2-Trichloroethane	6.590	97	29879	2.049	ppbv		88
48) Dibromochloromethane	7.389	129	53069	2.061	ppbv		100
49) Bromoform	9.483	173	48069	2.135	ppbv		97
50) 4-Methyl-2-Pentanone	5.758	43	102182	2.180	ppbv		99
51) 2-Hexanone	7.441	43	100443	2.375	ppbv		98
52) Tetrachloroethene	8.228	164	27854	1.877	ppbv		96
53) Toluene	6.933	91	97493	2.116	ppbv		98
54) 1,2-Dibromoethane	7.655	107	43153	2.076	ppbv		87
56) 1,1,1,2-Tetrachloroethane	8.924	131	42601	2.097	ppbv		95
57) Chlorobenzene	8.924	112	71685	2.054	ppbv		98
58) Ethyl Benzene	9.357	91	138810	2.088	ppbv		98
59) m/p-Xylene	9.551	91	103886	1.934	ppbv	#	32
60) o-Xylene	9.963	91	111972	2.076	ppbv		98
61) Styrene	9.872	104	54229	2.106	ppbv		98
62) Isopropylbenzene	10.539	105	163716	2.067	ppbv		100
63) 1,1,2,2-Tetrachloroethane	9.963	83	64952	1.853	ppbv		99
64) n-propylbenzene	10.989	120	40956	2.058	ppbv		96
65) tert-Butylbenzene	11.532	119	155401	2.135	ppbv		92
66) Benzyl Chloride	11.616	91	17300	2.163	ppbv		98
67) sec-Butylbenzene	11.769	105	218327	2.156	ppbv		100
69) p-Isopropyltoluene	11.927	119	188657	2.145	ppbv		99
70) n-Butylbenzene	12.283	91	198221	2.164	ppbv		99
71) 2-Chlorotoluene	10.901	91	128858	2.075	ppbv		98
72) 4-Ethyltoluene	11.124	105	137872	2.091	ppbv		97
73) 1,3,5-Trimethylbenzene	11.205	105	123580	2.123	ppbv		98
74) 1,2,4-Trimethylbenzene	11.539	105	145510	2.140	ppbv		92
75) 1,3-Dichlorobenzene	11.607	146	75082	2.124	ppbv		98
76) 1,4-Dichlorobenzene	11.671	146	75323	2.120	ppbv		99
77) 1,2-Dichlorobenzene	11.947	146	74786	2.176	ppbv		98
78) Hexachloro-1,3-Butadiene	13.882	225	76158	2.194	ppbv		100
79) Naphthalene	13.513	128	195233	2.401	ppbv		99
80) Naphthalene,2-methyl-	14.458	142	119262	2.574	ppbv		99
81) 1,2,4-Trichlorobenzene	13.442	180	82156	2.353	ppbv		99

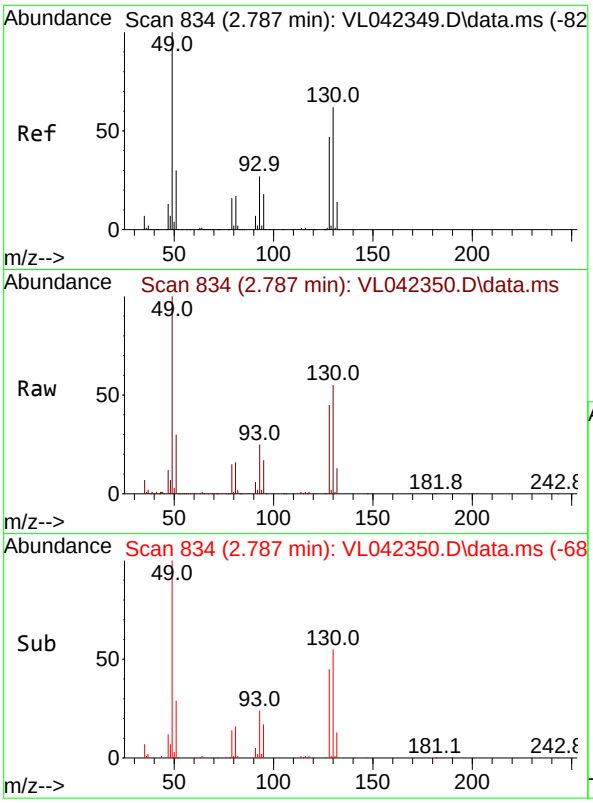
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042350.D
Acq On : 17 Apr 2025 10:17
Operator : SY/MD
Sample : VSTDICC002
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Quant Time: Apr 18 01:26:23 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Apr 18 01:24:29 2025
Response via : Initial Calibration



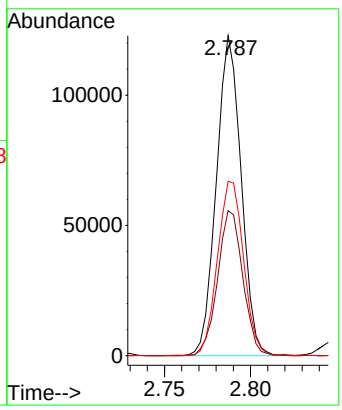


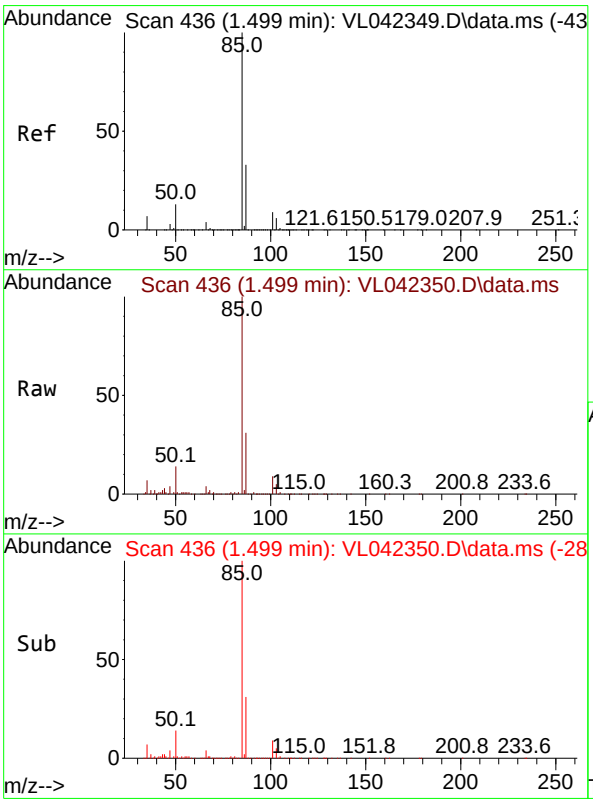
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 49 Resp: 123206

Ion	Ratio	Lower	Upper
49	100		
128	46.2	22.8	68.4
130	57.3	29.3	88.0

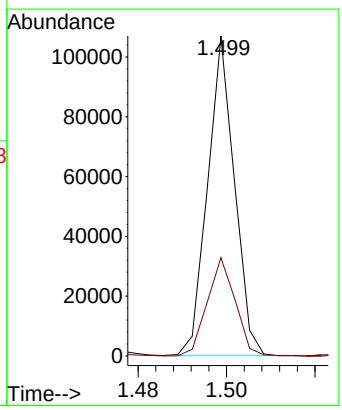


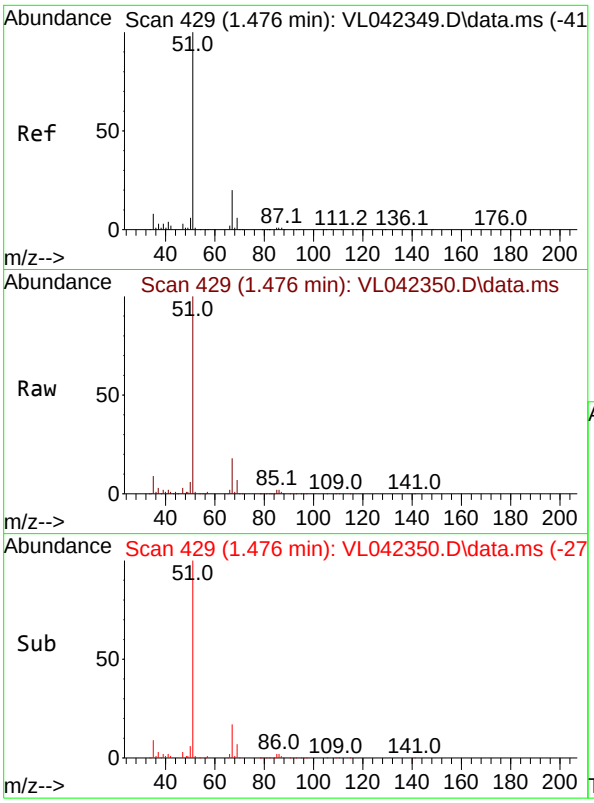


#2
Dichlorodifluoromethane
Concen: 2.068 ppbv
RT: 1.499 min Scan# 436
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 85 Resp: 45008

Ion	Ratio	Lower	Upper
85	100		
87	30.6	26.6	39.8



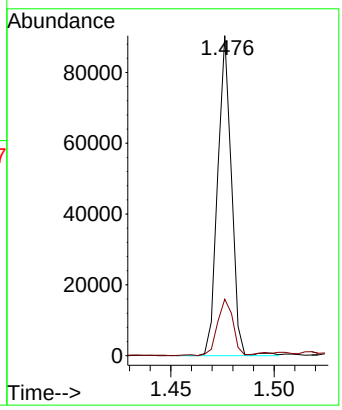


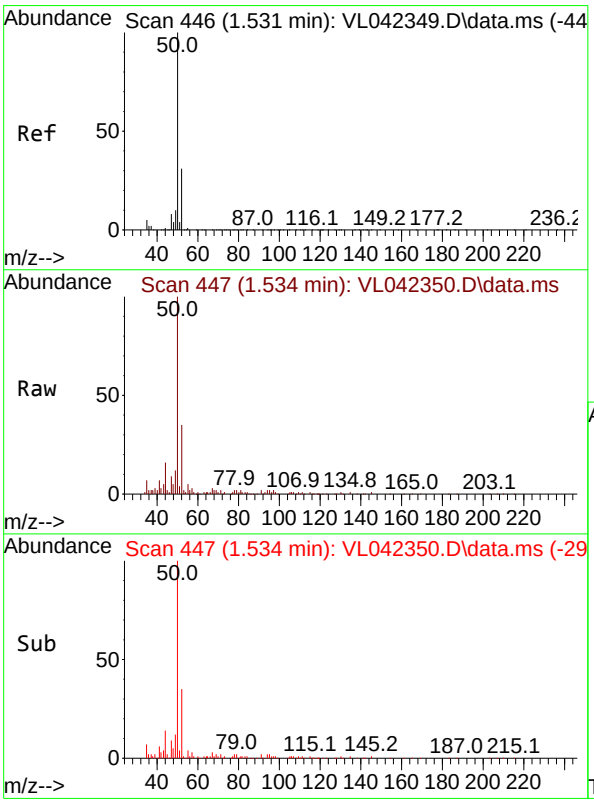
#3
Chlorodifluoromethane
Concen: 2.019 ppbv
RT: 1.476 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 51 Resp: 41853

Ion	Ratio	Lower	Upper
51	100		
67	21.7	16.2	24.4

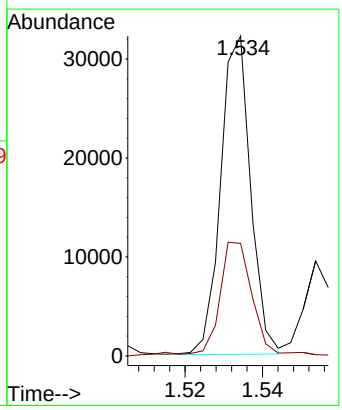


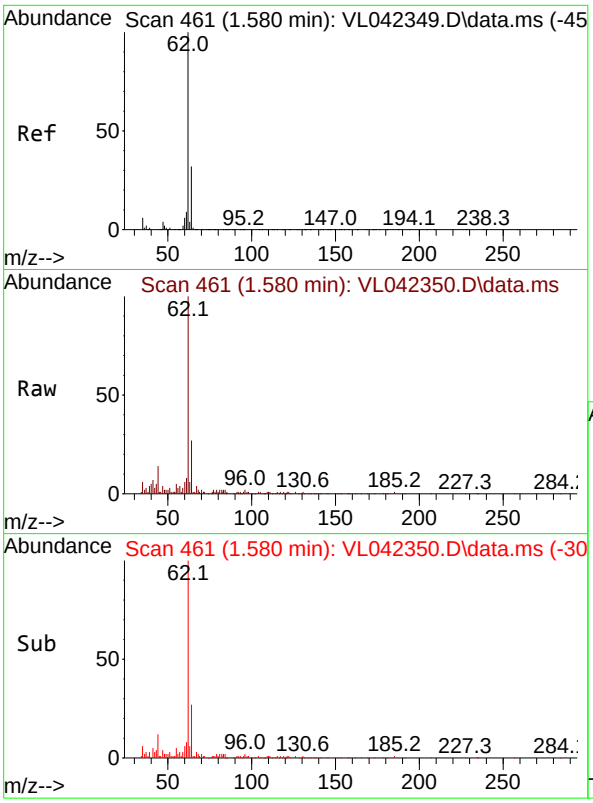


#4
Chloromethane
Concen: 2.005 ppbv
RT: 1.534 min Scan# 447
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 50 Resp: 17272

Ion	Ratio	Lower	Upper
50	100		
52	34.9	24.7	37.1



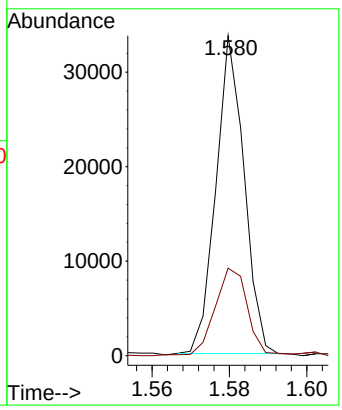


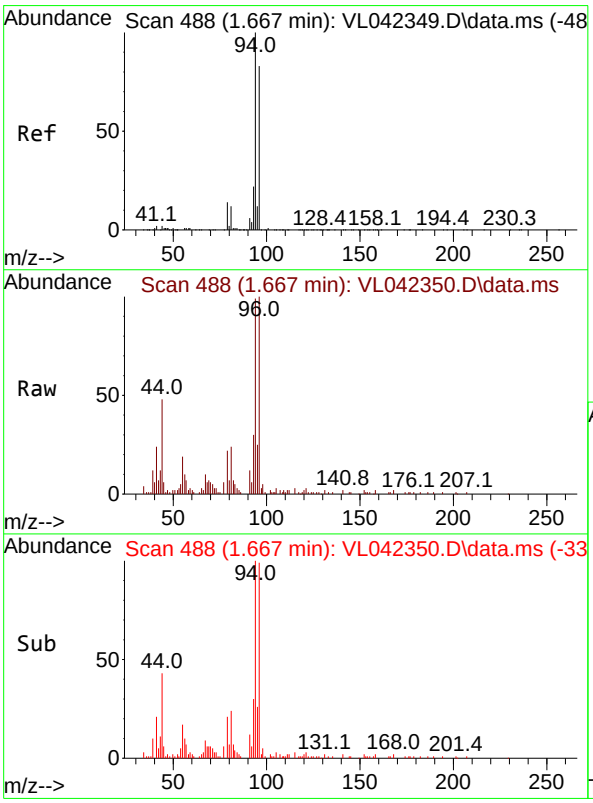
#5
Vinyl Chloride
Concen: 1.811 ppbv
RT: 1.580 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 62 Resp: 16979

Ion	Ratio	Lower	Upper
62	100		
64	27.2	25.4	38.0

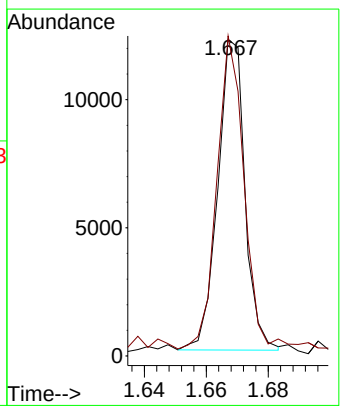


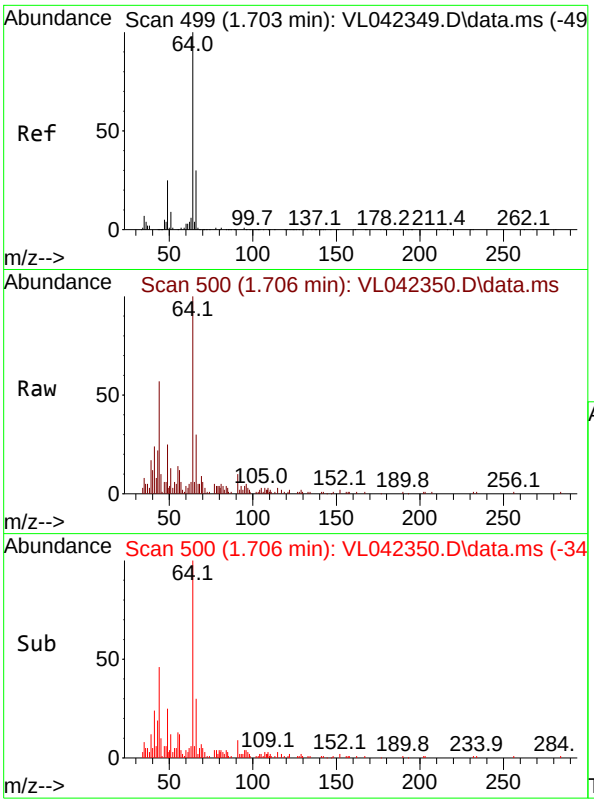


#6
Bromomethane
Concen: 1.821 ppbv
RT: 1.667 min Scan# 488
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 94 Resp: 7398

Ion	Ratio	Lower	Upper
94	100		
96	100.8	66.2	99.2#



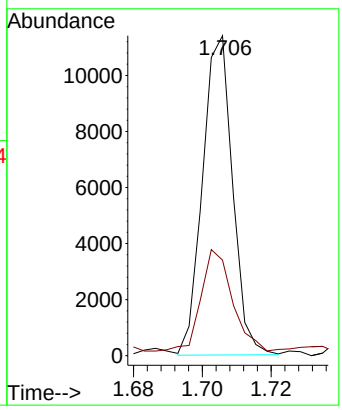


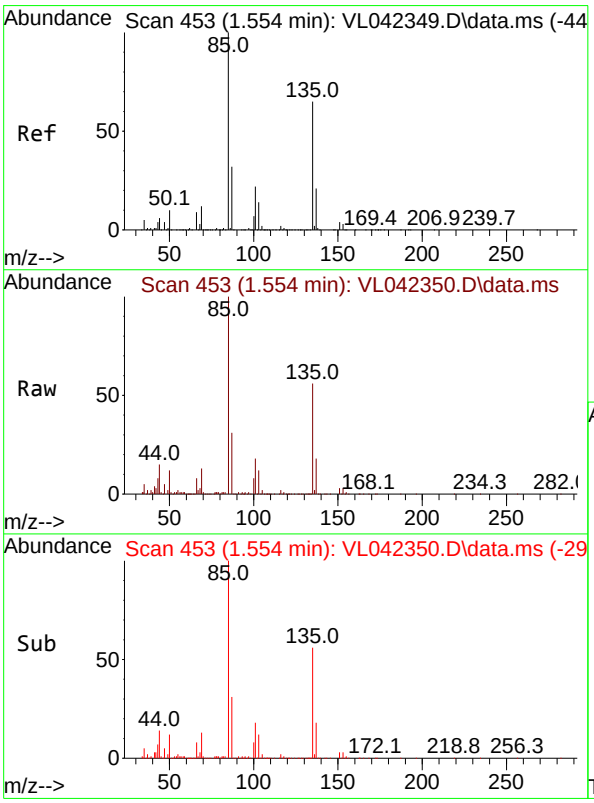
#7
Chloroethane
Concen: 2.031 ppbv
RT: 1.706 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 64 Resp: 6889

Ion	Ratio	Lower	Upper
64	100		
66	29.8	24.6	37.0

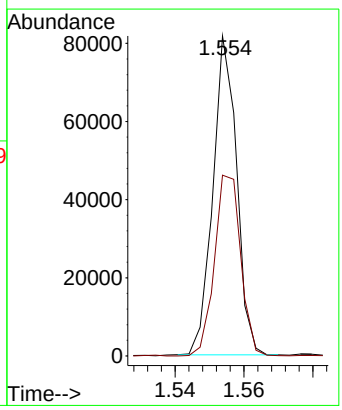


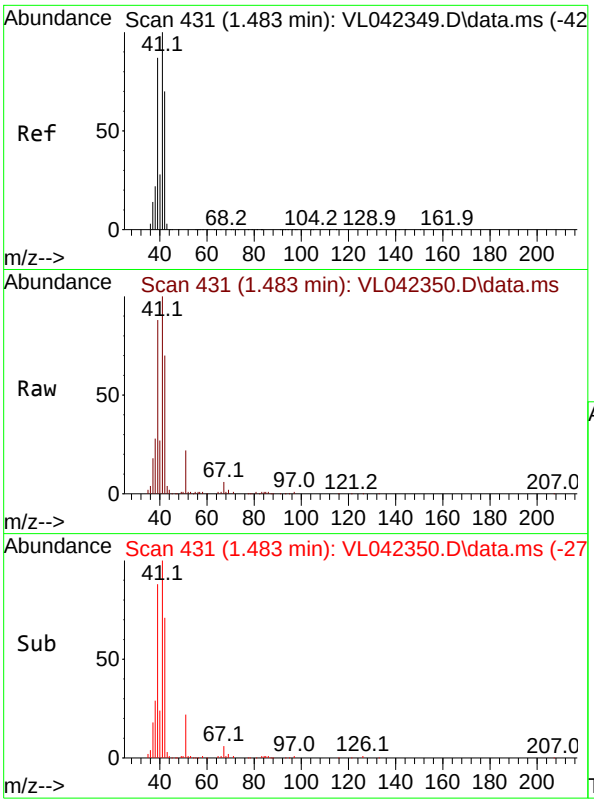


#8
Dichlorotetrafluoroethane
Concen: 2.084 ppbv
RT: 1.554 min Scan# 453
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 85 Resp: 38955

Ion	Ratio	Lower	Upper
85	100		
135	63.3	52.2	78.2



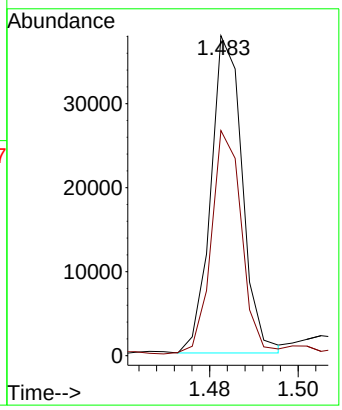


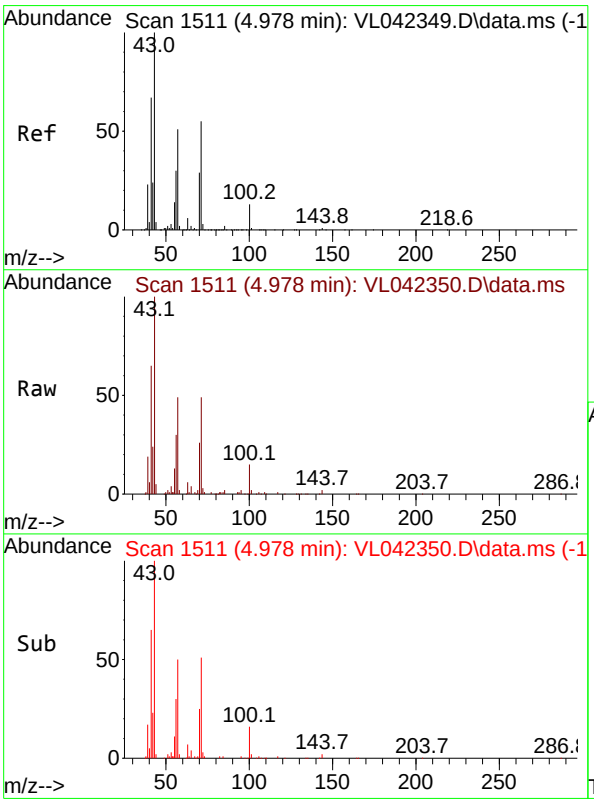
#9
Propene
Concen: 1.978 ppbv
RT: 1.483 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 41 Resp: 18671

Ion	Ratio	Lower	Upper
41	100		
42	72.7	56.2	84.4

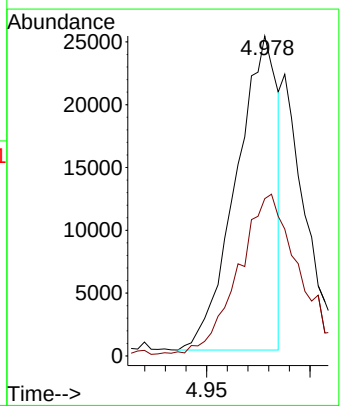


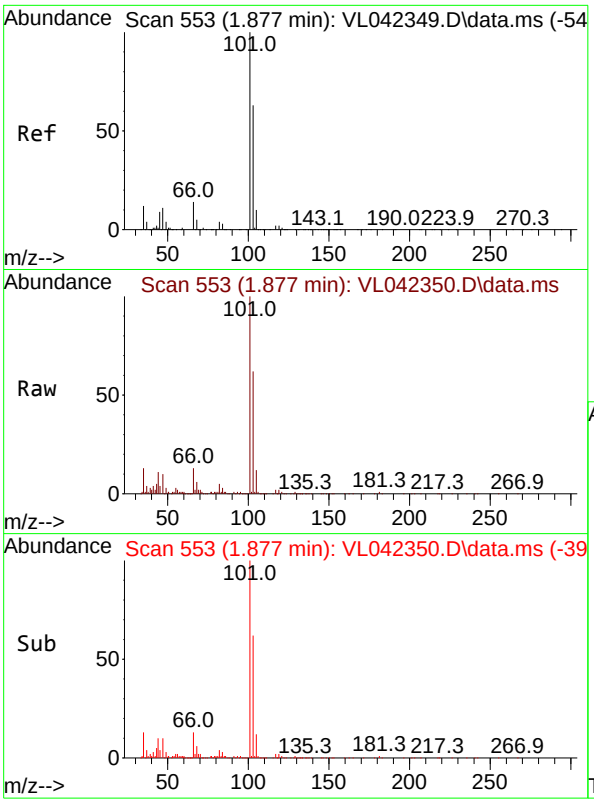


#10
Heptane
Concen: 1.364 ppbv
RT: 4.978 min Scan# 1511
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 43 Resp: 34658

Ion	Ratio	Lower	Upper
43	100		
57	75.9	39.9	59.9#



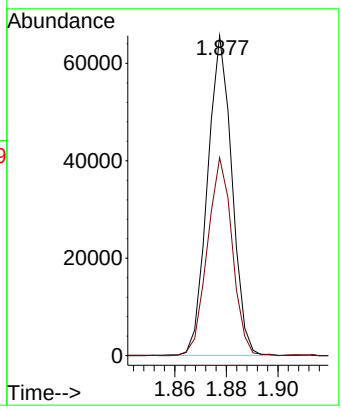


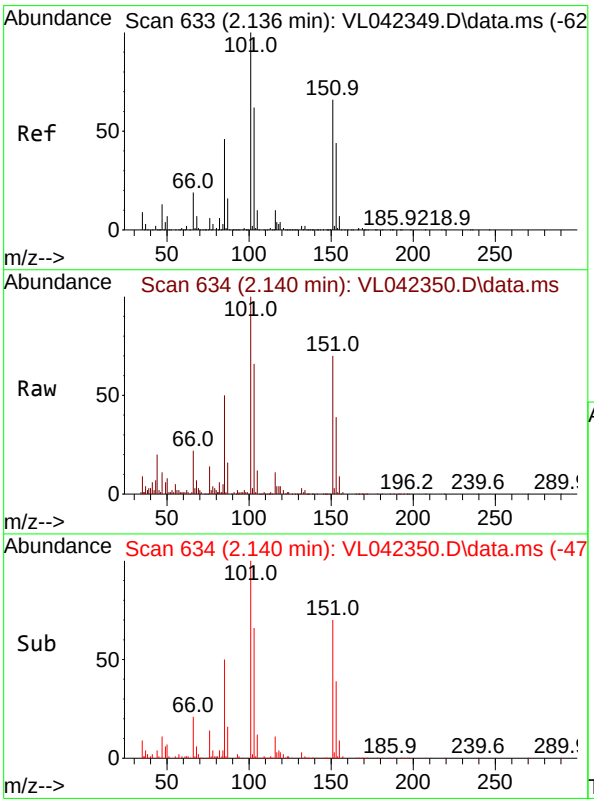
#11
Trichlorofluoromethane
Concen: 2.079 ppbv
RT: 1.877 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion:101 Resp: 43035

Ion	Ratio	Lower	Upper
101	100		
103	61.9	50.1	75.1

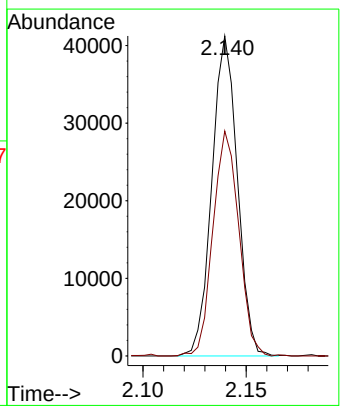


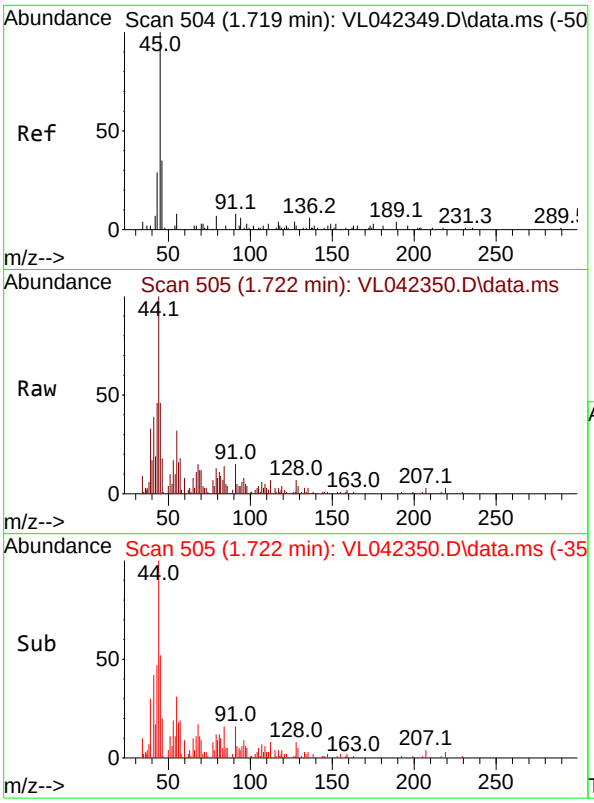


#12
1,1,2-Trichlorotrifluoroethane
Concen: 2.092 ppbv
RT: 2.140 min Scan# 634
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion:101 Resp: 35415

Ion	Ratio	Lower	Upper
101	100		
151	71.5	57.0	85.6



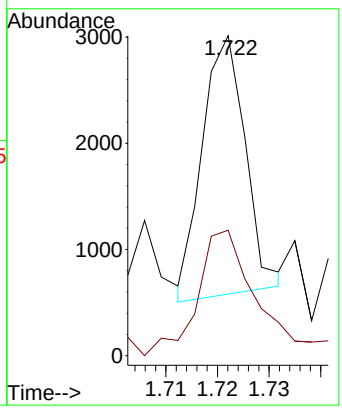


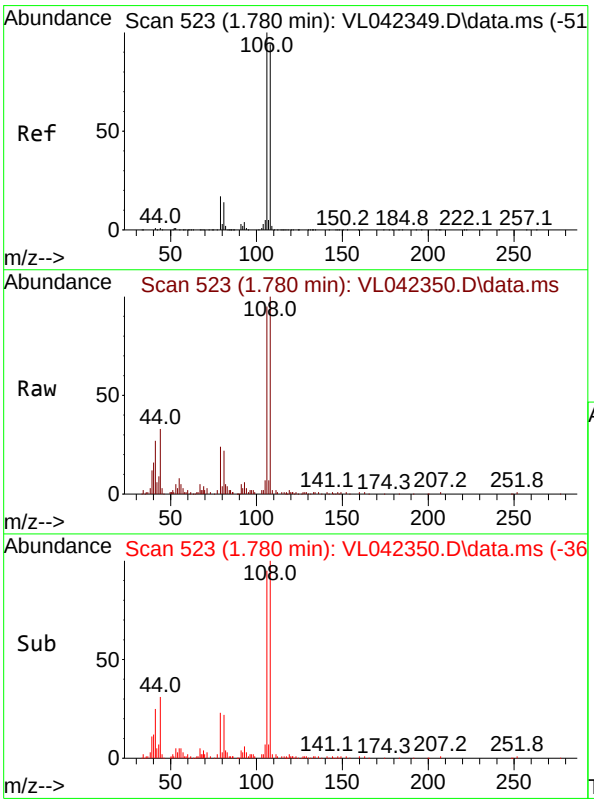
#13
Ethanol
Concen: 1.837 ppbv
RT: 1.722 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 45 Resp: 1417

Ion	Ratio	Lower	Upper
45	100		
46	84.1	21.9	87.7

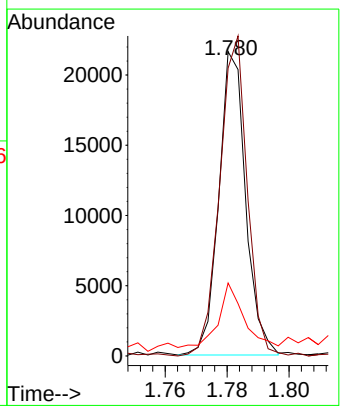


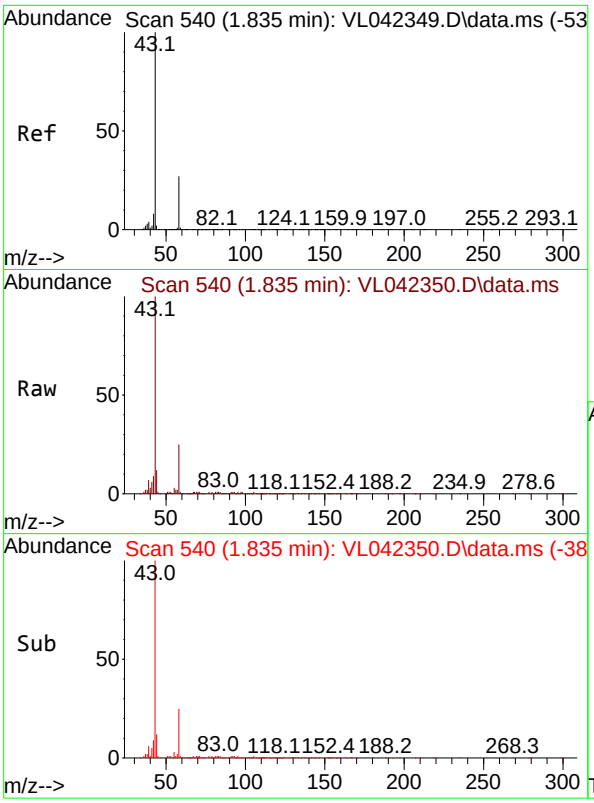


#14
Bromoethene
Concen: 2.045 ppbv
RT: 1.780 min Scan# 523
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion:108 Resp: 13049

Ion	Ratio	Lower	Upper
108	100		
106	110.2	85.9	128.9
79	34.0	13.9	20.9#



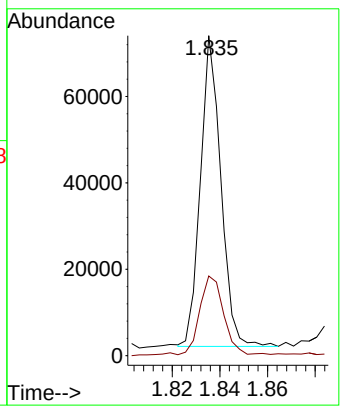


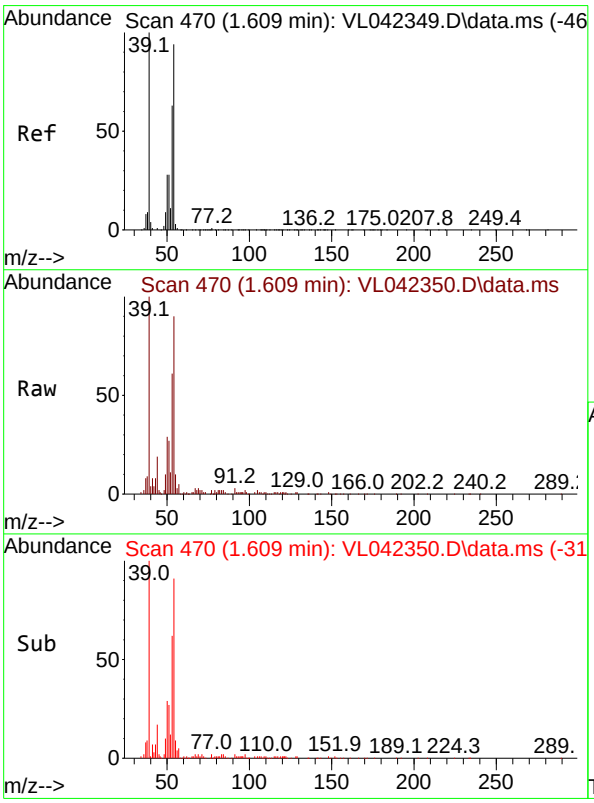
#15
Acetone
Concen: 2.129 ppbv
RT: 1.835 min Scan# 54
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 43 Resp: 42949

Ion	Ratio	Lower	Upper
43	100		
58	31.4	22.4	33.6

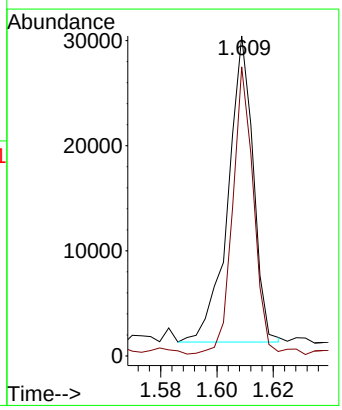


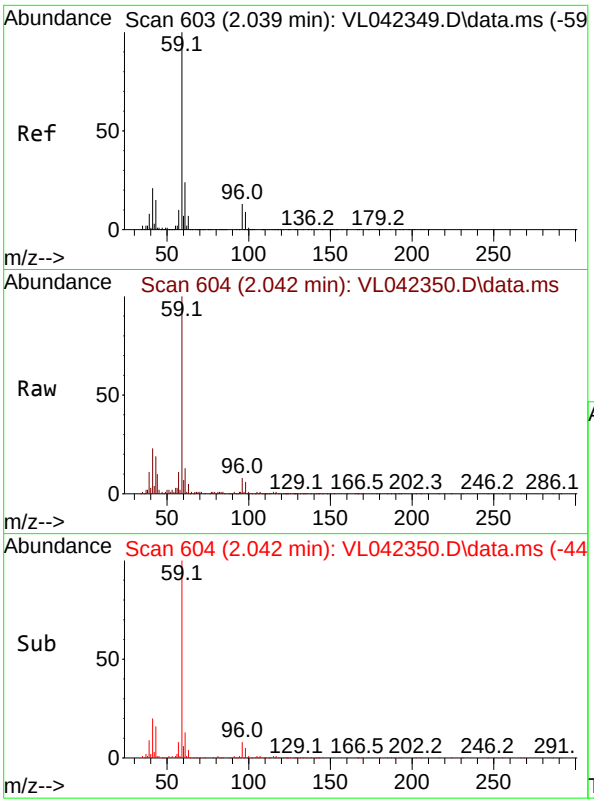


#16
1,3-Butadiene
Concen: 1.912 ppbv
RT: 1.609 min Scan# 470
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 39 Resp: 18110

Ion	Ratio	Lower	Upper
39	100		
54	77.2	64.9	97.3



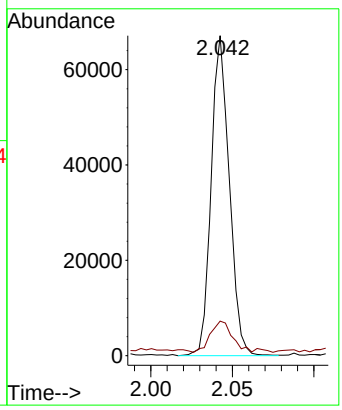


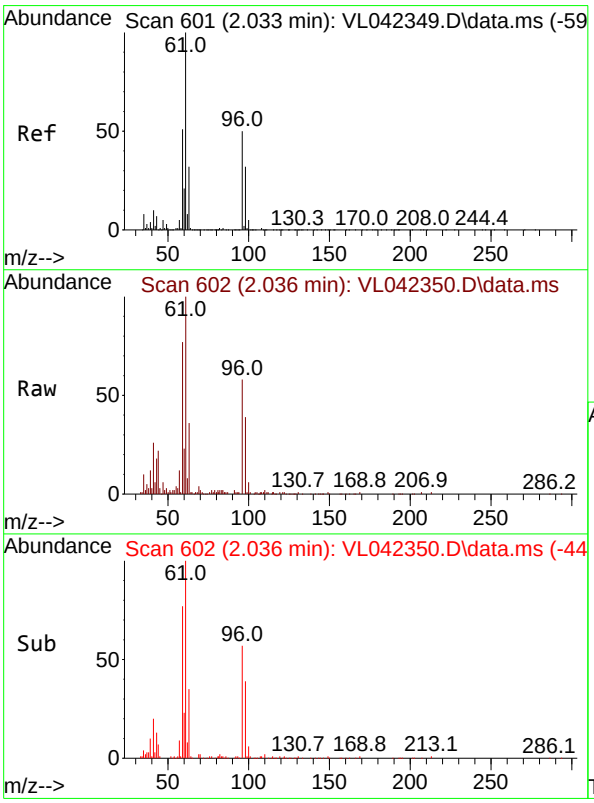
#17
tert-Butyl alcohol
Concen: 2.074 ppbv
RT: 2.042 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 59 Resp: 51829

Ion	Ratio	Lower	Upper
59	100		
57	13.2	8.7	13.1#

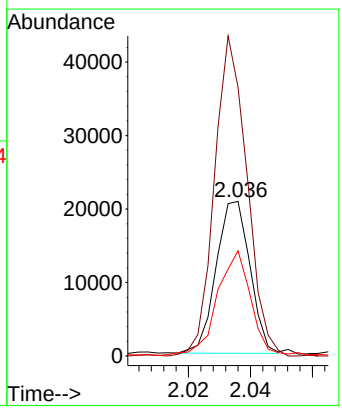


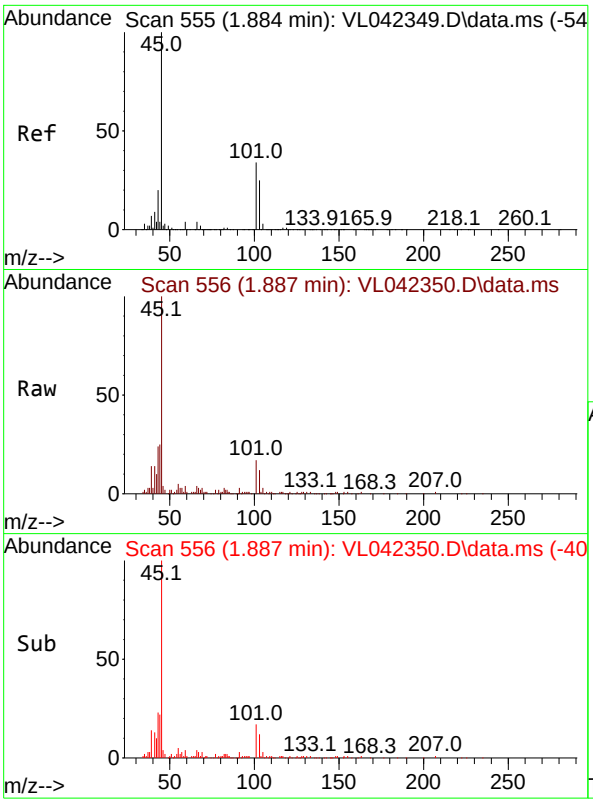


#18
1,1-Dichloroethene
Concen: 1.928 ppbv
RT: 2.036 min Scan# 602
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 96 Resp: 15690

Ion	Ratio	Lower	Upper
96	100		
61	176.1	160.2	240.2
98	67.2	51.0	76.4



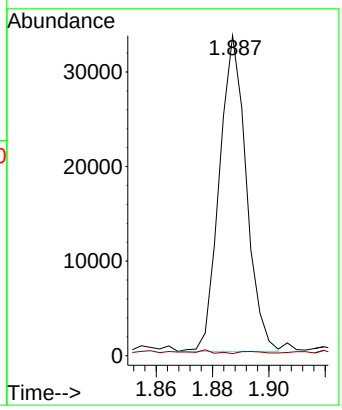


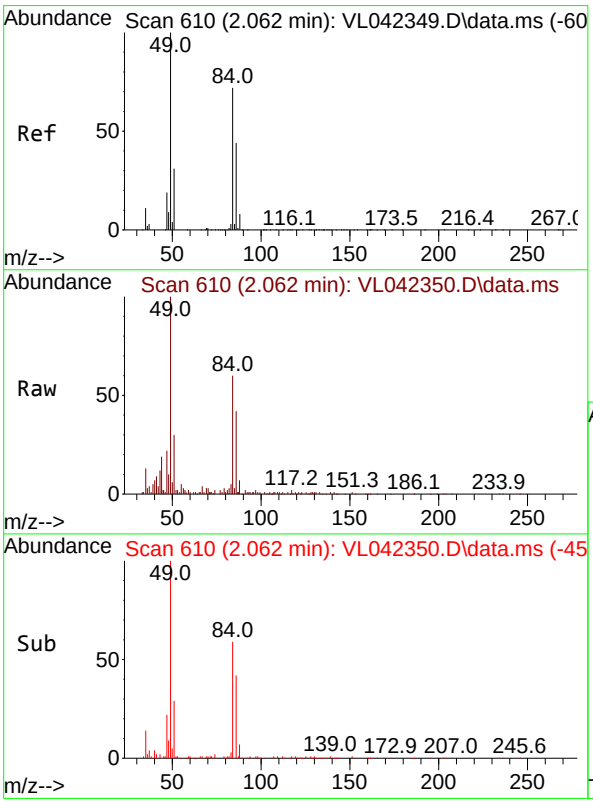
#19
Isopropyl Alcohol
Concen: 1.973 ppbv
RT: 1.887 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 45 Resp: 22106

Ion	Ratio	Lower	Upper
45	100		
58	3.6	34.5	51.7#

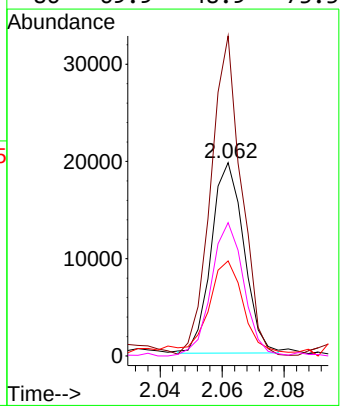


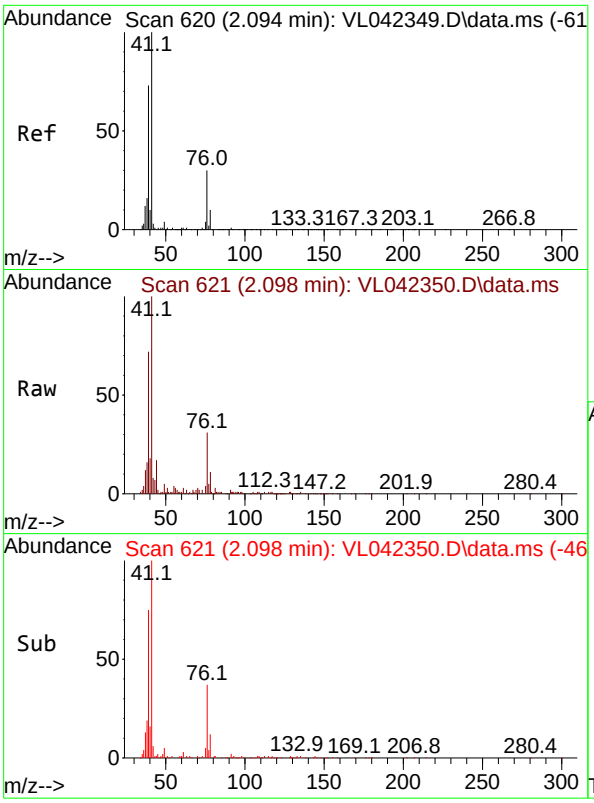


#20
Methylene Chloride
Concen: 1.814 ppbv
RT: 2.062 min Scan# 610
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 84 Resp: 14329

Ion	Ratio	Lower	Upper
84	100		
49	169.1	111.6	167.4#
51	47.9	35.1	52.7
86	69.9	48.9	73.3



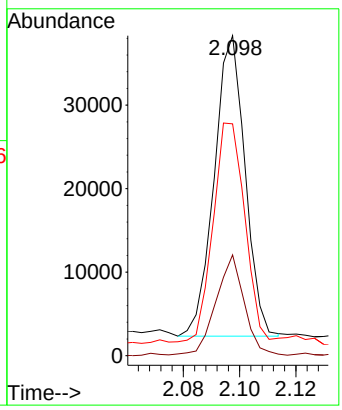


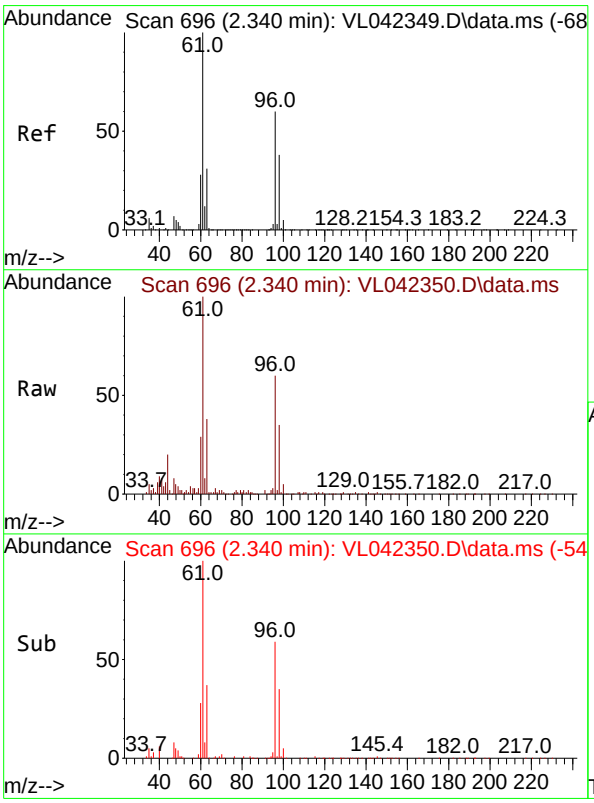
#21
Allyl Chloride
Concen: 1.963 ppbv
RT: 2.098 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 41 Resp: 27340

Ion	Ratio	Lower	Upper
41	100		
76	31.9	24.8	37.2
39	81.2	60.6	90.8

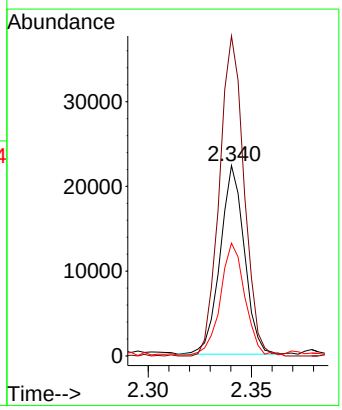


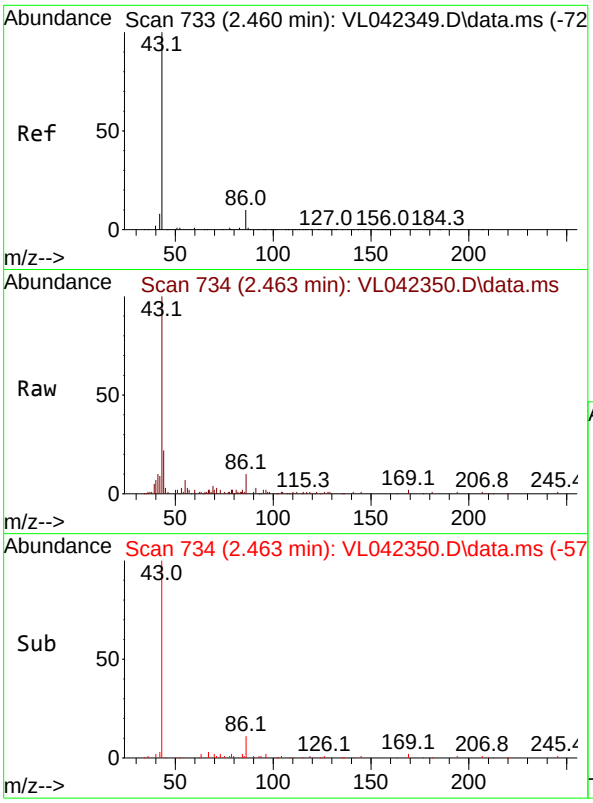


#22
trans-1,2-Dichloroethene
Concen: 2.015 ppbv
RT: 2.340 min Scan# 696
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 96 Resp: 18142

Ion	Ratio	Lower	Upper
96	100		
61	169.6	133.7	200.5
98	59.3	50.3	75.5



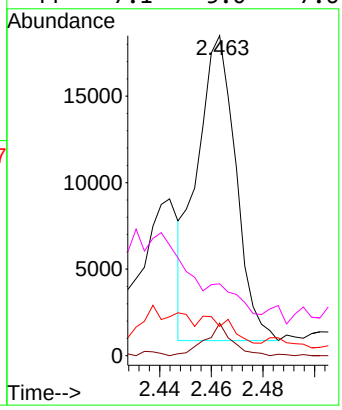


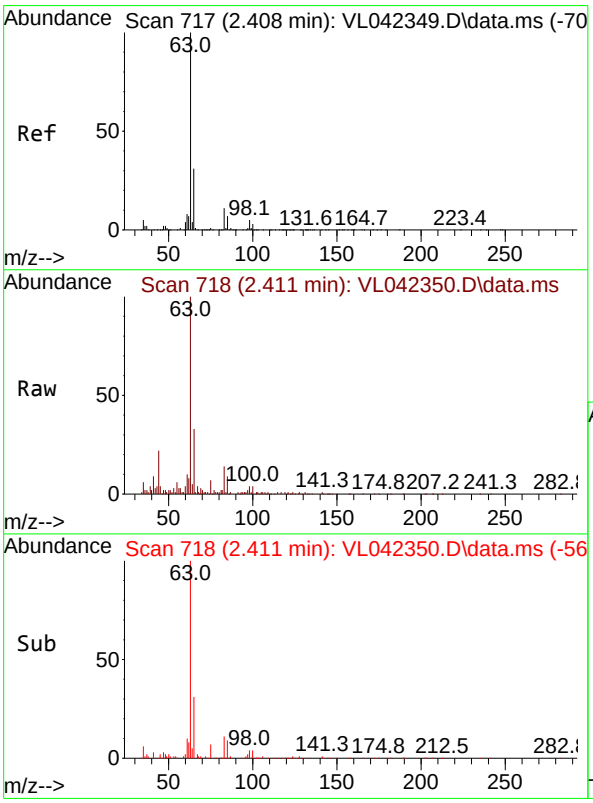
#23
Vinyl Acetate
Concen: 2.260 ppbv
RT: 2.463 min Scan# 7
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 43 Resp: 18454

Ion	Ratio	Lower	Upper
43	100		
86	10.2	6.5	9.7#
42	3.7	7.8	11.8#
44	7.1	5.0	7.6

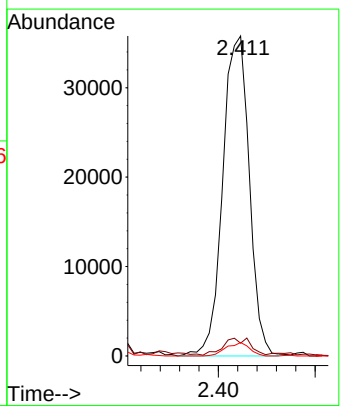


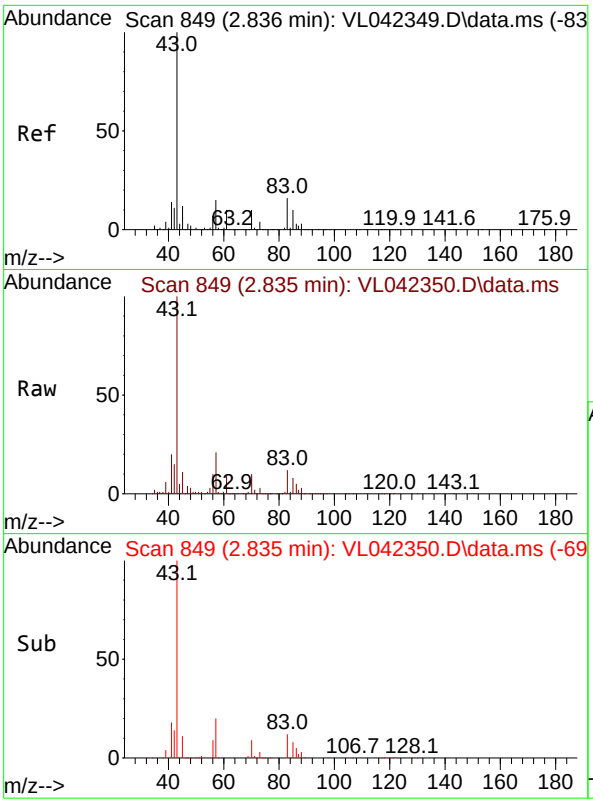


#24
1,1-Dichloroethane
Concen: 1.993 ppbv
RT: 2.411 min Scan# 718
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 63 Resp: 34077

Ion	Ratio	Lower	Upper
63	100		
98	3.1	2.3	6.8
100	4.2	1.6	4.8



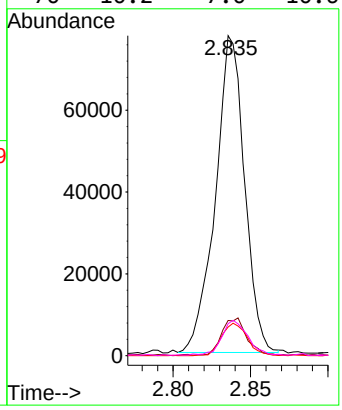


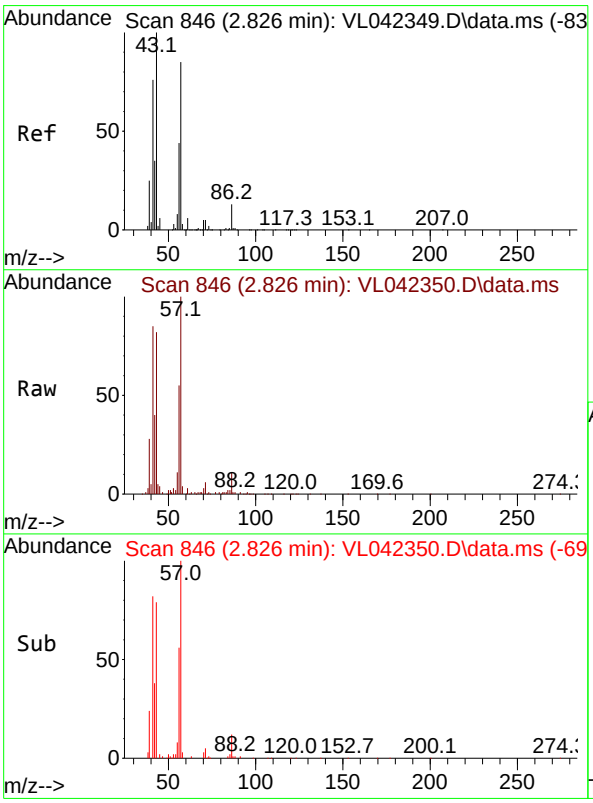
#25
Ethyl Acetate
Concen: 2.040 ppbv
RT: 2.835 min Scan# 84
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 43 Resp: 101467

Ion	Ratio	Lower	Upper
43	100		
45	10.4	8.3	12.5
61	9.2	7.3	10.9
70	10.2	7.0	10.6

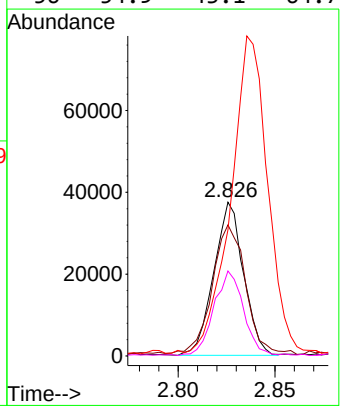


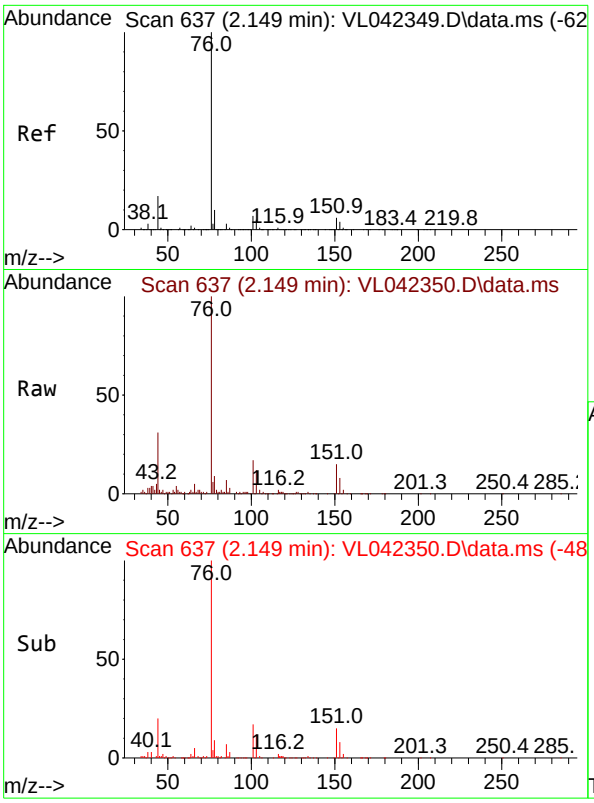


#26
Hexane
Concen: 1.990 ppbv
RT: 2.826 min Scan# 846
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 57 Resp: 40046

Ion	Ratio	Lower	Upper
57	100		
41	94.1	77.9	116.9
43	260.7	208.4	312.6
56	54.9	43.1	64.7



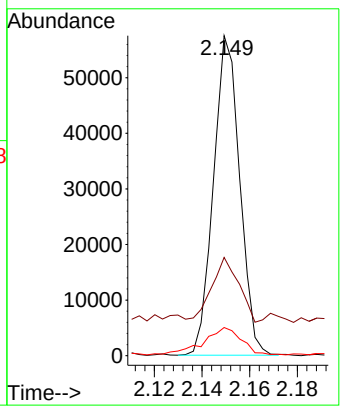


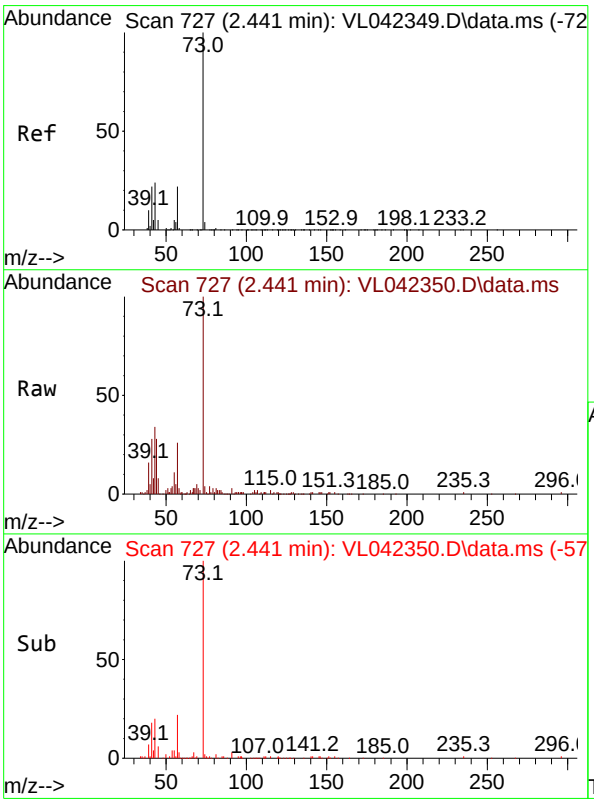
#27
Carbon Disulfide
Concen: 2.041 ppbv
RT: 2.149 min Scan# 6
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 76 Resp: 43975

Ion	Ratio	Lower	Upper
76	100		
44	44.3	15.5	23.3#
78	13.6	9.3	13.9

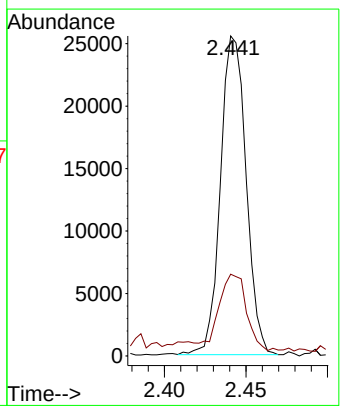


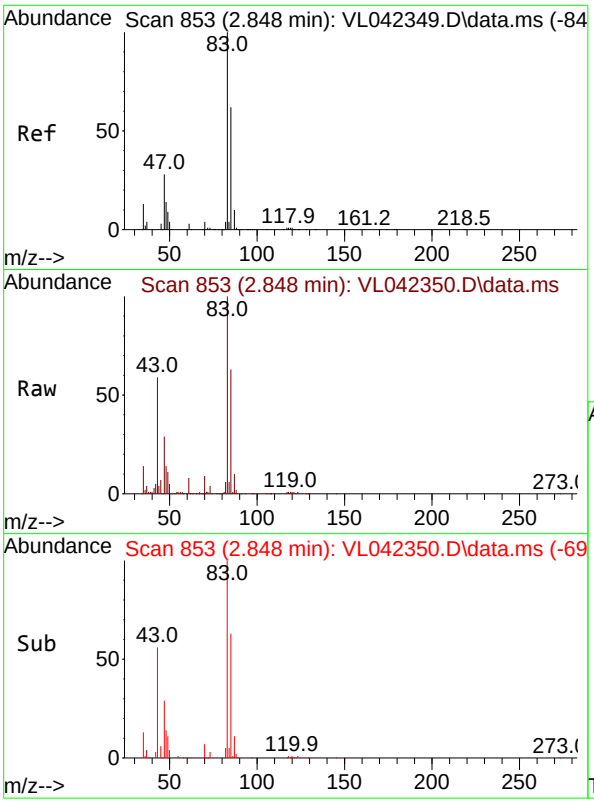


#28
Methyl tert-Butyl Ether
Concen: 2.116 ppbv
RT: 2.441 min Scan# 727
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 73 Resp: 27905

Ion	Ratio	Lower	Upper
73	100		
57	28.1	21.3	31.9



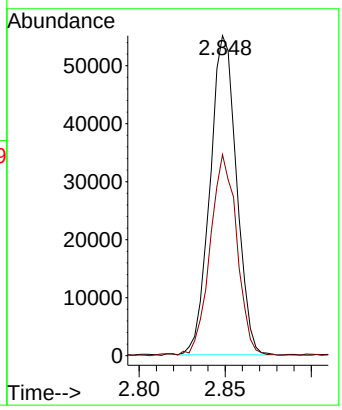


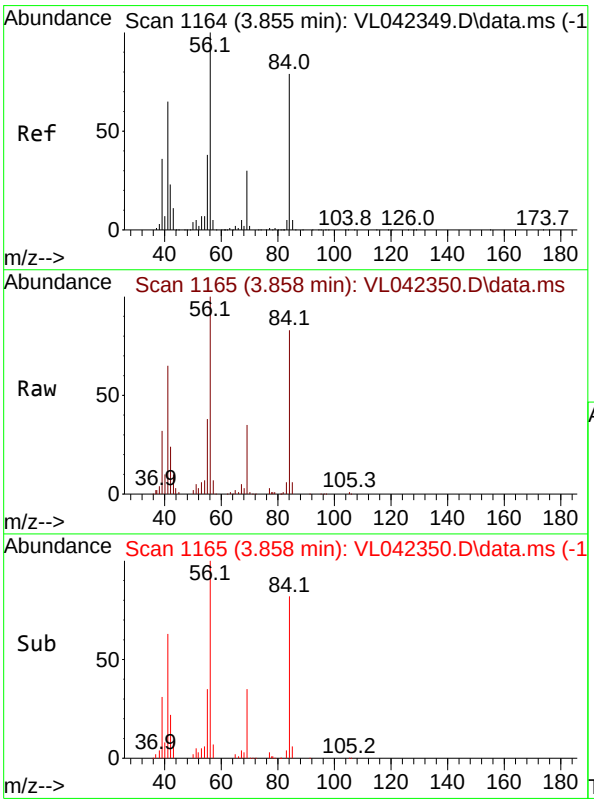
#29
Chloroform
Concen: 2.072 ppbv
RT: 2.848 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 83 Resp: 58946

Ion	Ratio	Lower	Upper
83	100		
85	62.9	50.0	75.0

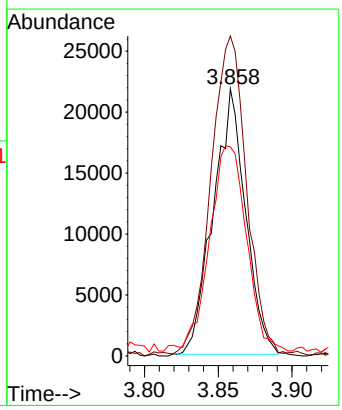


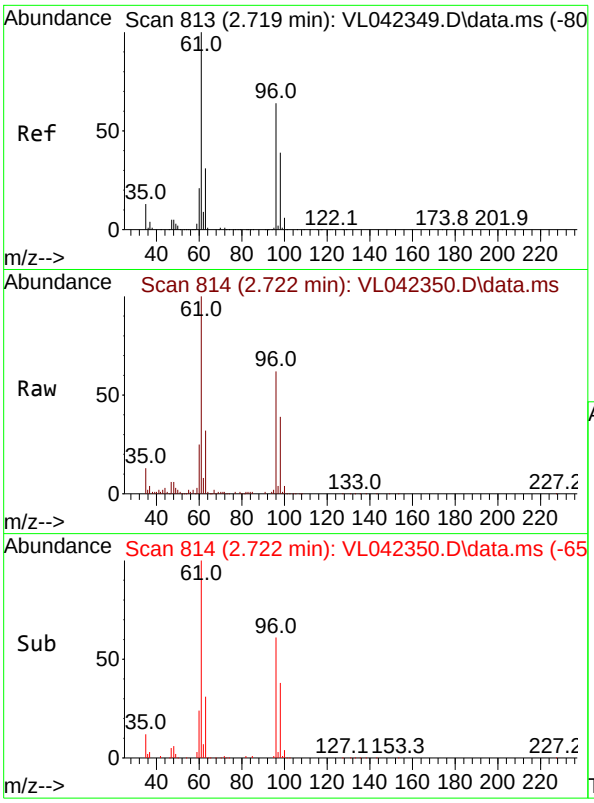


#30
Cyclohexane
Concen: 2.048 ppbv
RT: 3.858 min Scan# 1165
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 84 Resp: 33195

Ion	Ratio	Lower	Upper
84	100		
56	134.5	101.0	151.4
41	88.1	67.4	101.0



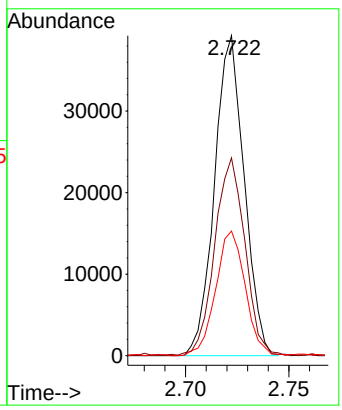


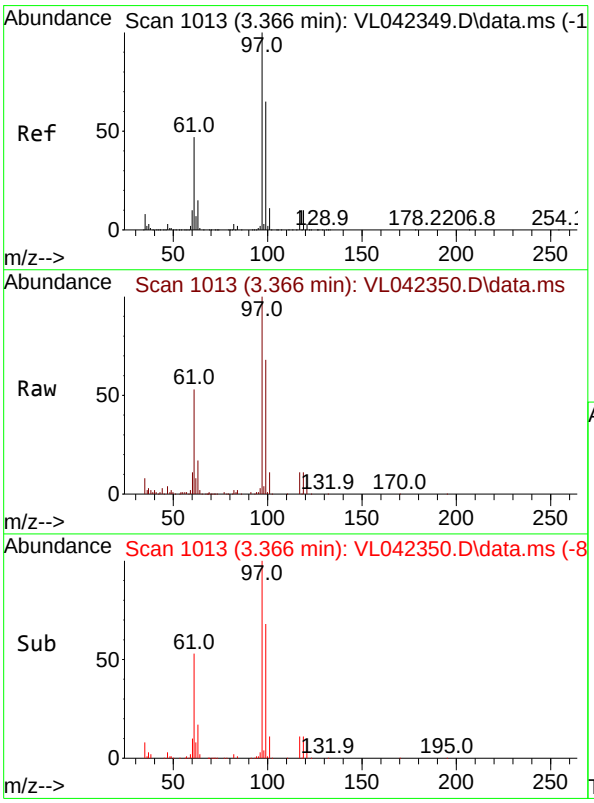
#31
cis-1,2-Dichloroethene
Concen: 2.051 ppbv
RT: 2.722 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 61 Resp: 39249

Ion	Ratio	Lower	Upper
61	100		
96	61.6	50.8	76.2
98	39.0	30.9	46.3

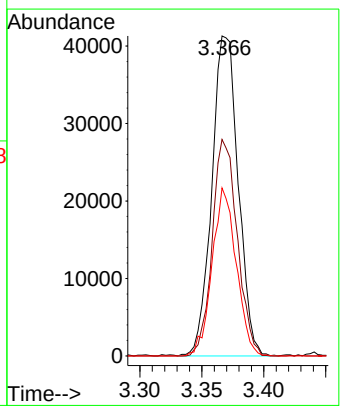


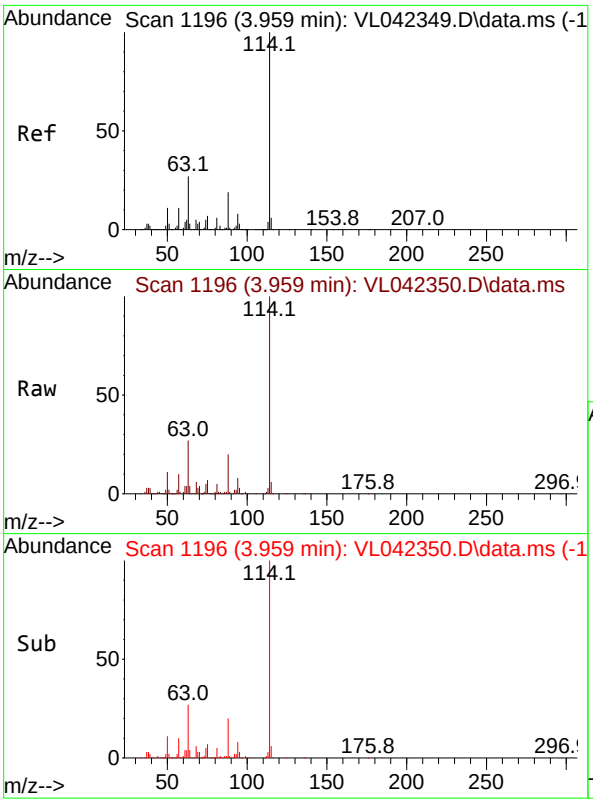


#32
1,1,1-Trichloroethane
Concen: 2.014 ppbv
RT: 3.366 min Scan# 1013
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 97 Resp: 61442

Ion	Ratio	Lower	Upper
97	100		
99	64.0	51.0	76.4
61	48.0	38.8	58.2



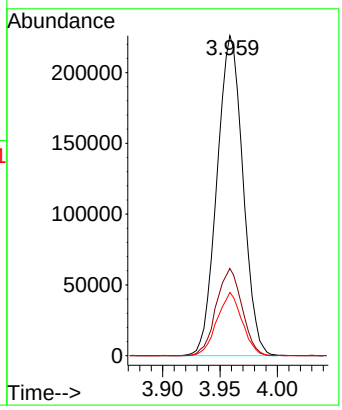


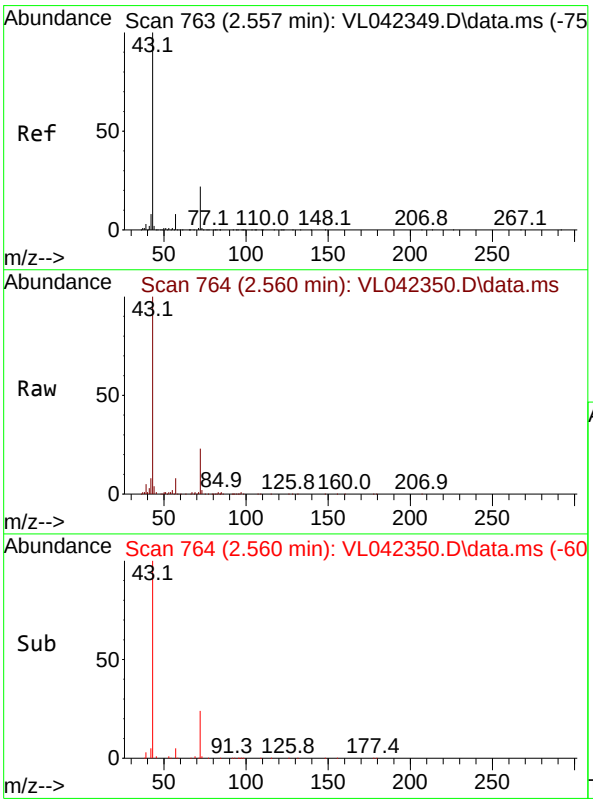
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.959 min Scan# 11
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion:114 Resp: 355918

Ion	Ratio	Lower	Upper
114	100		
63	27.1	21.8	32.6
88	19.0	15.5	23.3

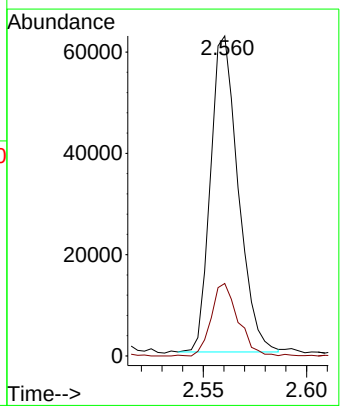


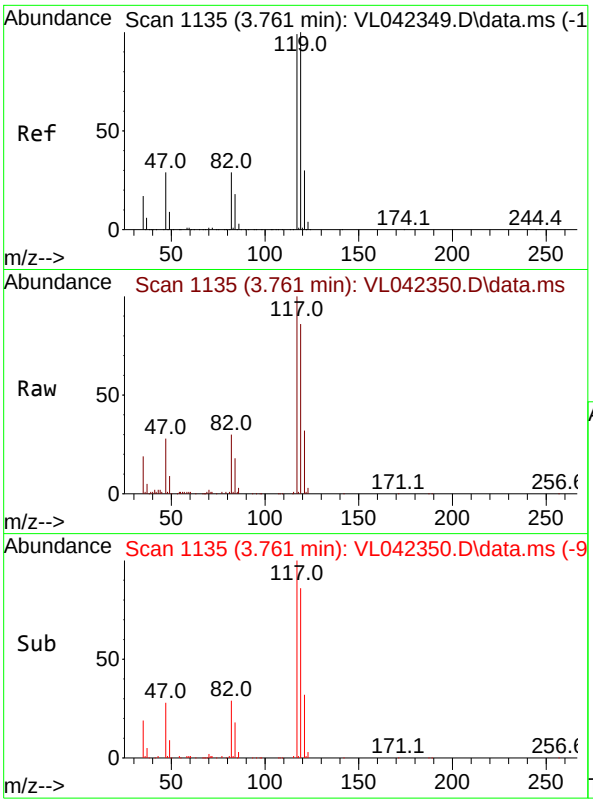


#34
2-Butanone
Concen: 2.069 ppbv
RT: 2.560 min Scan# 764
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 43 Resp: 58249

Ion	Ratio	Lower	Upper
43	100		
72	22.5	18.2	27.2



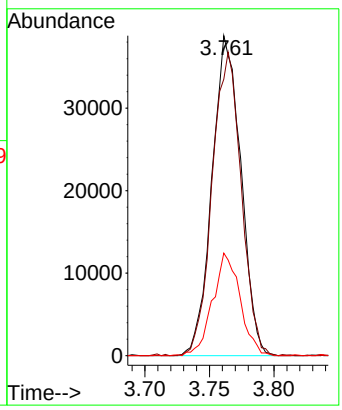


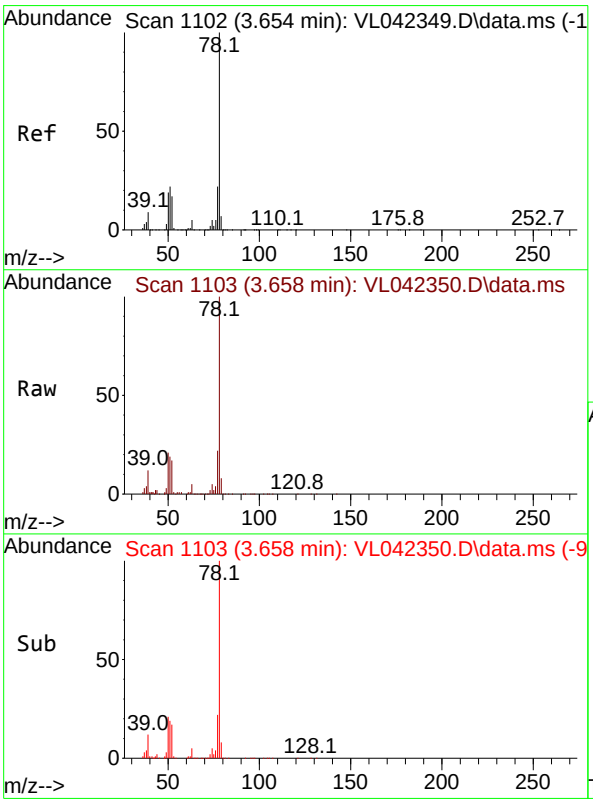
#35
Carbon Tetrachloride
Concen: 1.872 ppbv
RT: 3.761 min Scan# 11
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion:117 Resp: 60291

Ion	Ratio	Lower	Upper
117	100		
119	86.4	80.5	120.7
121	32.1	24.2	36.2

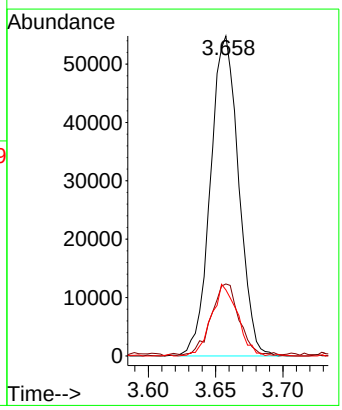


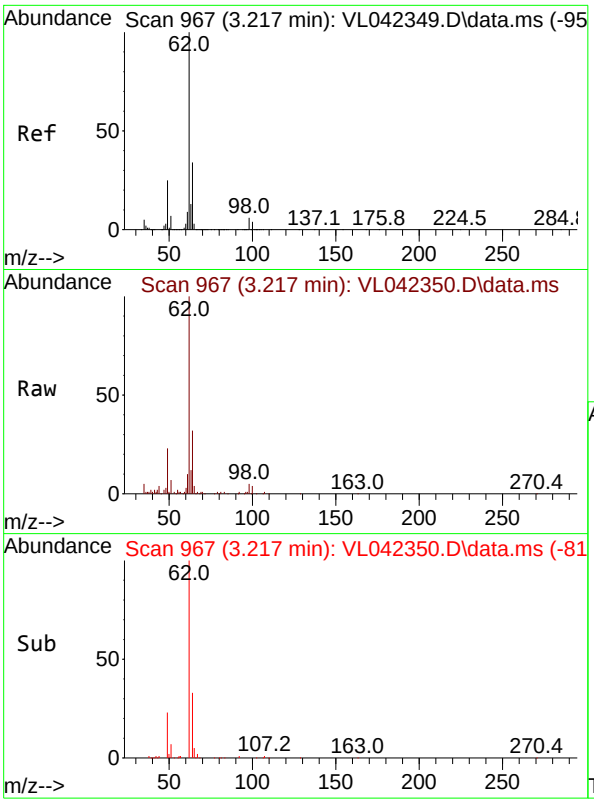


#36
Benzene
Concen: 2.079 ppbv
RT: 3.658 min Scan# 1103
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 78 Resp: 79814

Ion	Ratio	Lower	Upper
78	100		
77	22.0	17.4	26.0
50	20.6	15.5	23.3



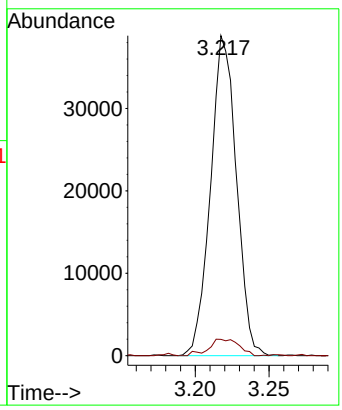


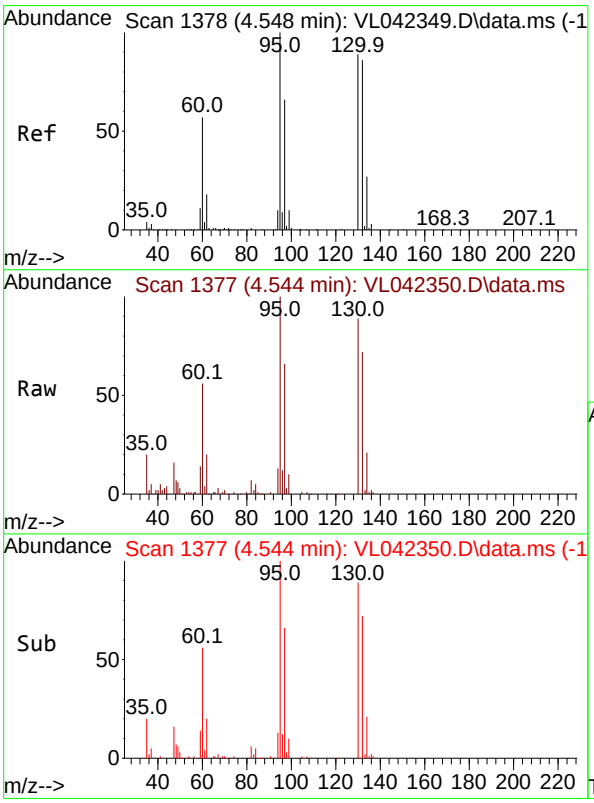
#37
1,2-Dichloroethane
Concen: 2.057 ppbv
RT: 3.217 min Scan# 9
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 62 Resp: 47398

Ion	Ratio	Lower	Upper
62	100		
98	6.4	5.1	7.7

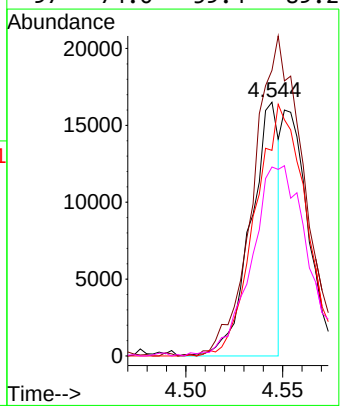


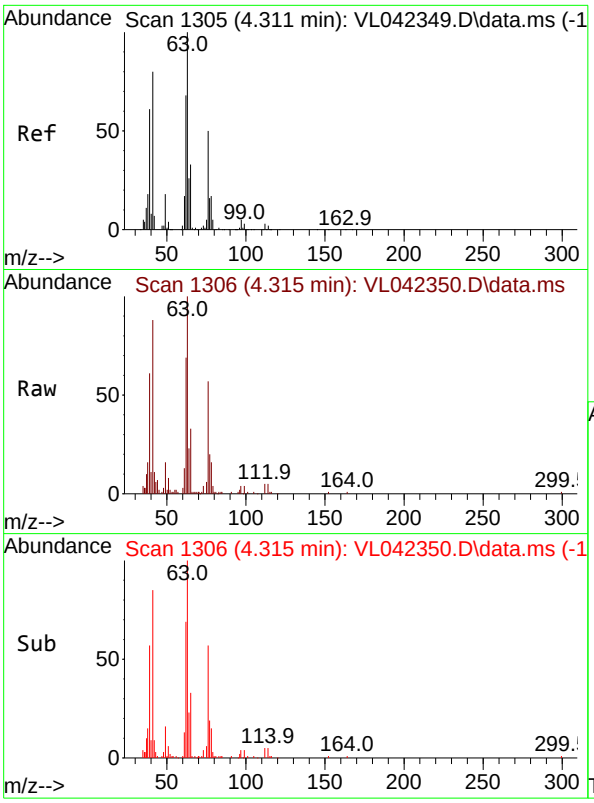


#38
Trichloroethene
Concen: 0.986 ppbv
RT: 4.544 min Scan# 1377
Delta R.T. -0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion:130 Resp: 16602

Ion	Ratio	Lower	Upper
130	100		
95	112.6	89.8	134.6
132	81.1	77.7	116.5
97	74.0	59.4	89.2



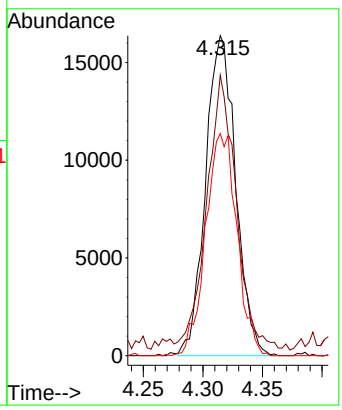


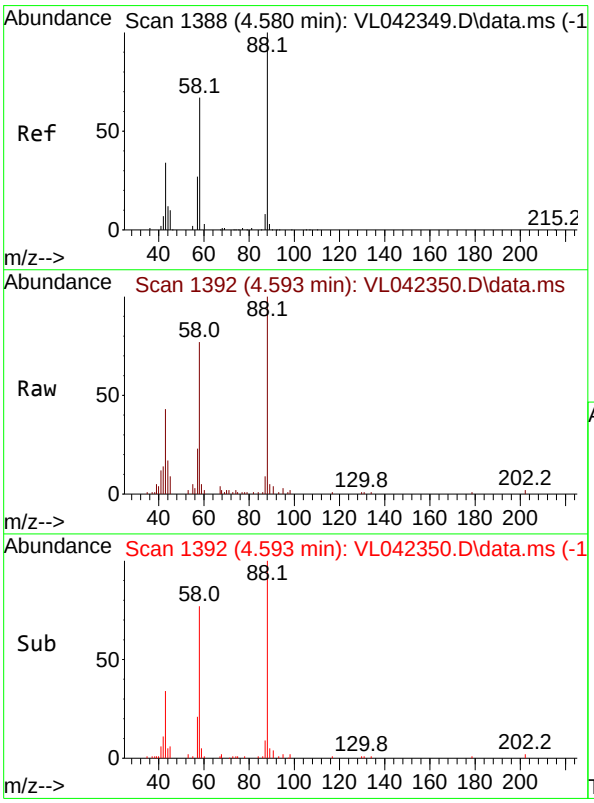
#39
1,2-Dichloropropane
Concen: 2.012 ppbv
RT: 4.315 min Scan# 1
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 63 Resp: 28806

Ion	Ratio	Lower	Upper
63	100		
41	85.2	64.2	96.2
62	69.4	54.3	81.5

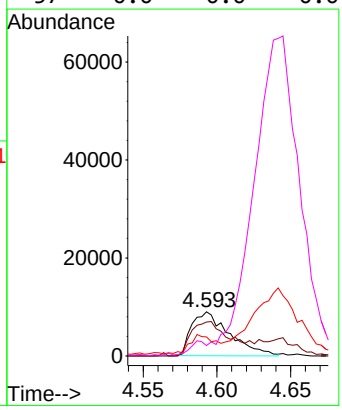


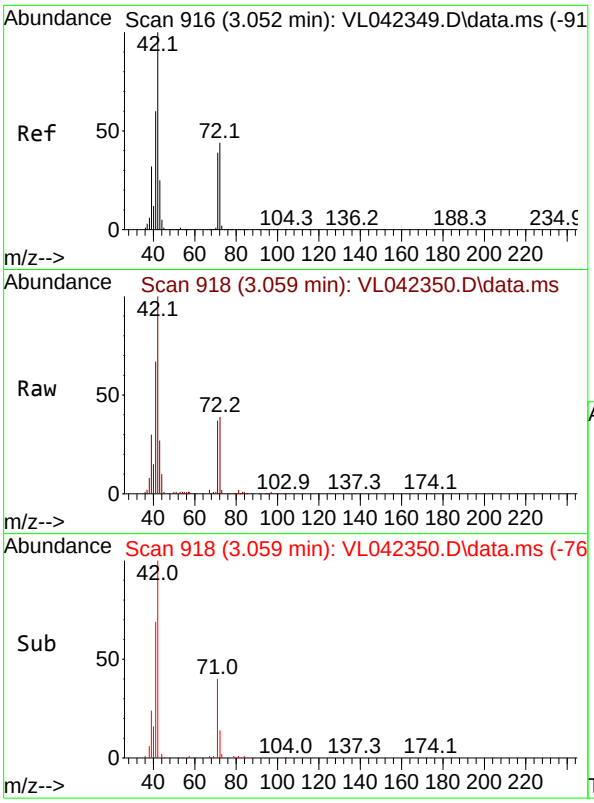


#40
1,4-Dioxane
Concen: 2.067 ppbv
RT: 4.593 min Scan# 1392
Delta R.T. 0.013 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 88 Resp: 16026

Ion	Ratio	Lower	Upper
88	100		
58	84.9	61.4	92.0
43	6.3	23.2	34.8#
57	0.0	0.0	0.0



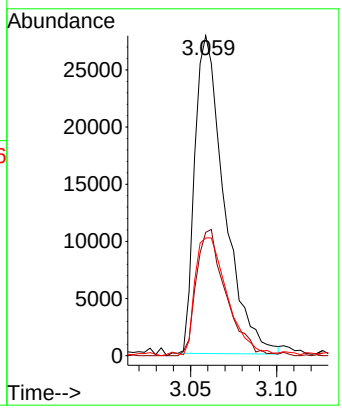


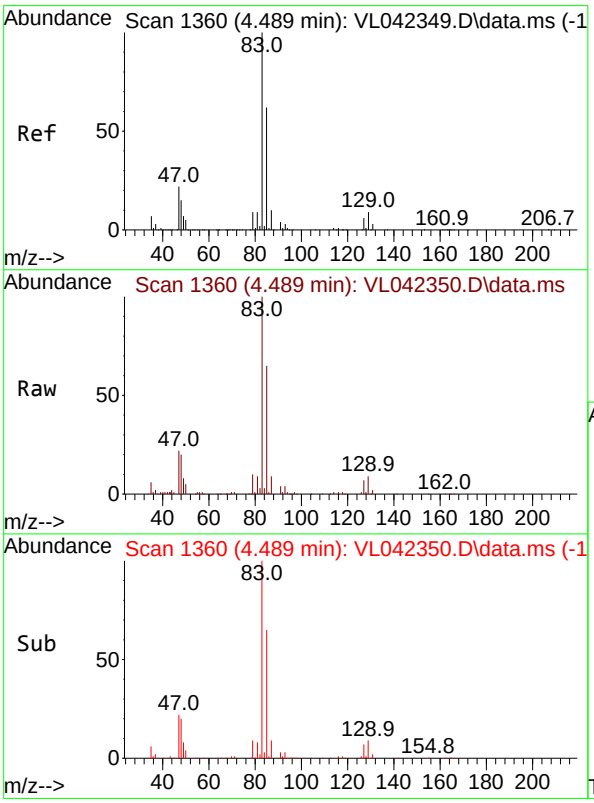
#41
Tetrahydrofuran
Concen: 2.047 ppbv
RT: 3.059 min Scan# 91
Delta R.T. 0.006 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 42 Resp: 33298

Ion	Ratio	Lower	Upper
42	100		
72	39.9	32.3	48.5
71	41.5	31.4	47.2

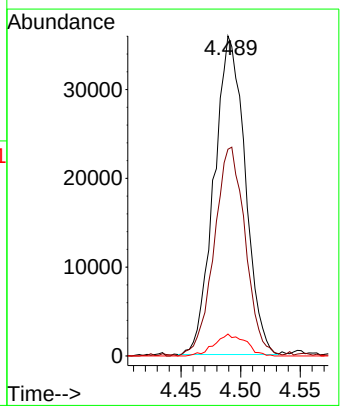


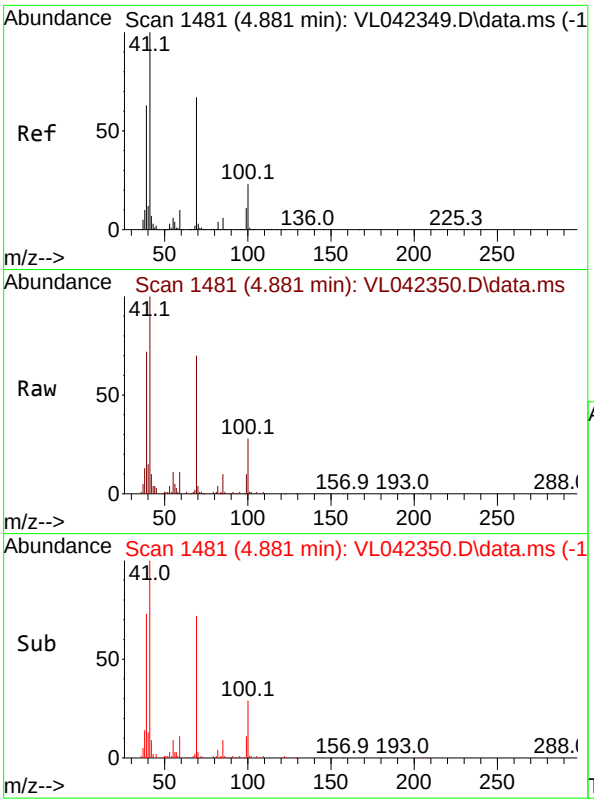


#42
Bromodichloromethane
Concen: 2.025 ppbv
RT: 4.489 min Scan# 1360
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 83 Resp: 64941

Ion	Ratio	Lower	Upper
83	100		
85	64.9	49.7	74.5
127	6.9	5.1	7.7



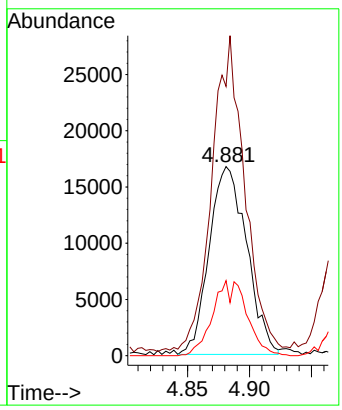


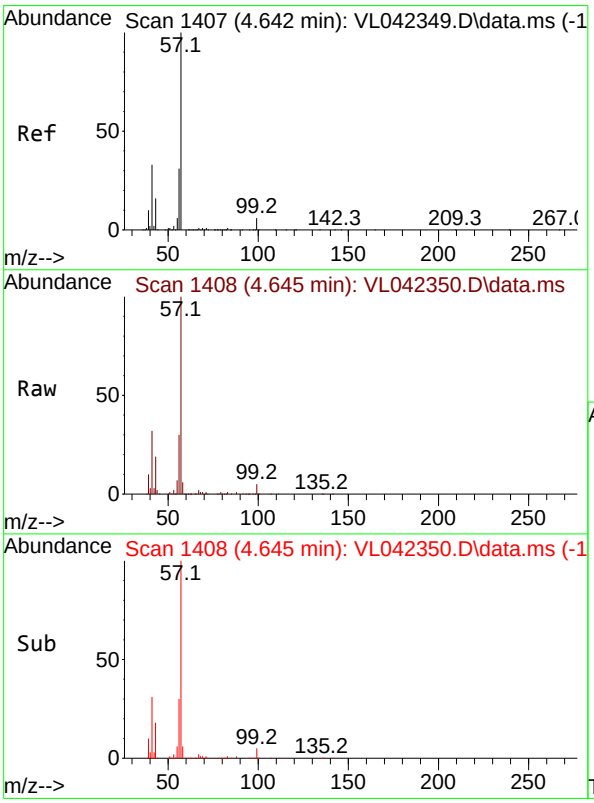
#43
Methyl Methacrylate
Concen: 2.046 ppbv
RT: 4.881 min Scan# 14
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 69 Resp: 35256

Ion	Ratio	Lower	Upper
69	100		
41	144.4	118.6	177.8
100	36.5	28.2	42.2

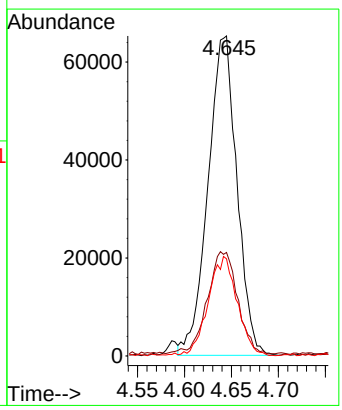


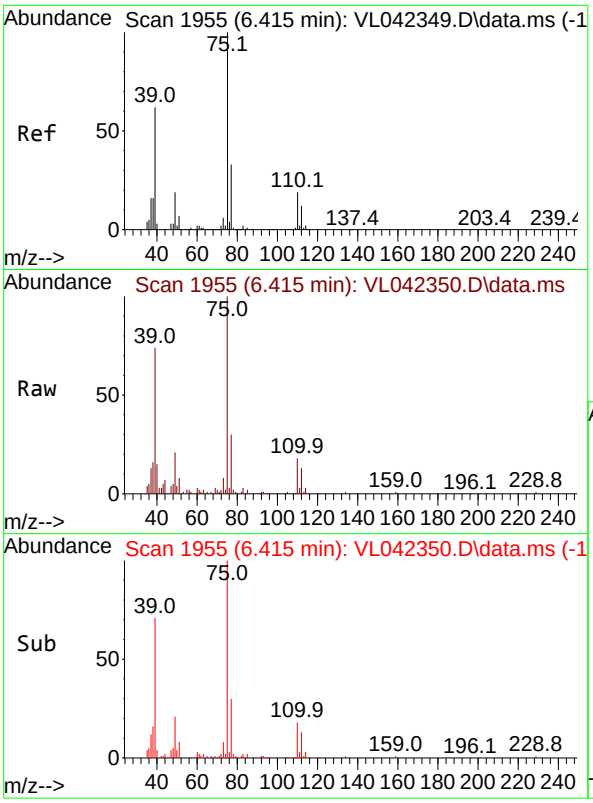


#44
2,2,4-Trimethylpentane
Concen: 2.103 ppbv
RT: 4.645 min Scan# 1408
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 57 Resp: 139641

Ion	Ratio	Lower	Upper
57	100		
41	34.4	27.2	40.8
56	31.3	25.7	38.5



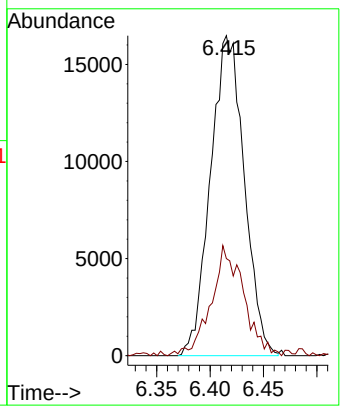


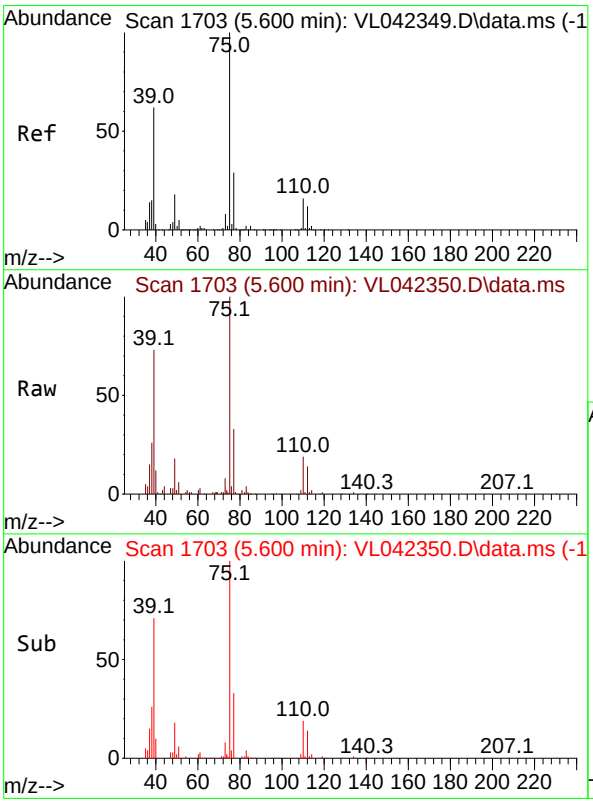
#45
t-1,3-Dichloropropene
Concen: 2.050 ppbv
RT: 6.415 min Scan# 1
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 75 Resp: 36265

Ion	Ratio	Lower	Upper
75	100		
77	30.4	27.0	40.6

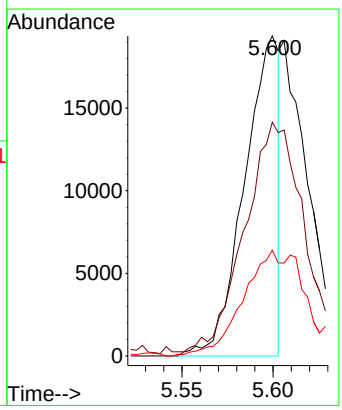


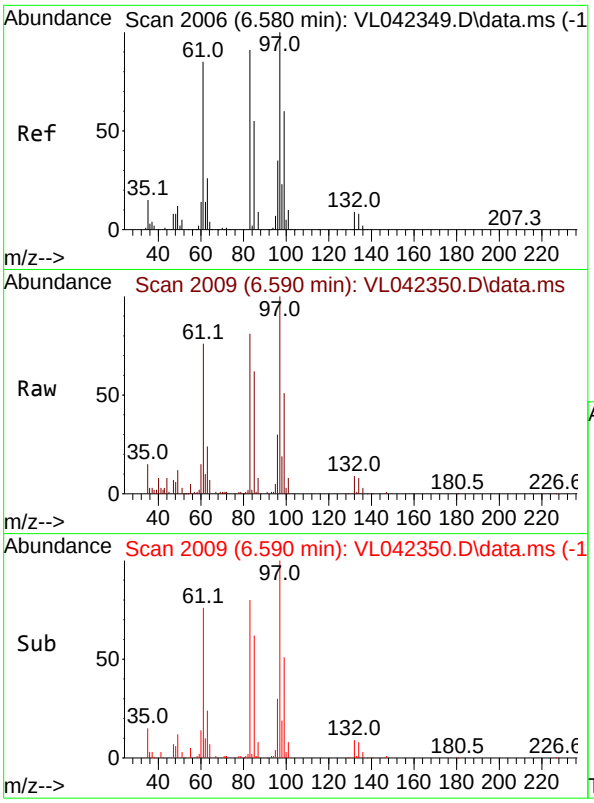


#46
cis-1,3-Dichloropropene
Concen: 1.183 ppbv
RT: 5.600 min Scan# 1703
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 75 Resp: 25569

Ion	Ratio	Lower	Upper
75	100		
39	71.8	50.0	75.0
77	32.5	23.0	34.6



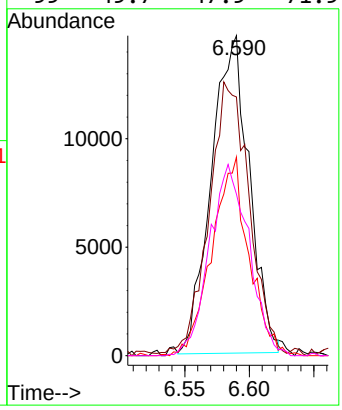


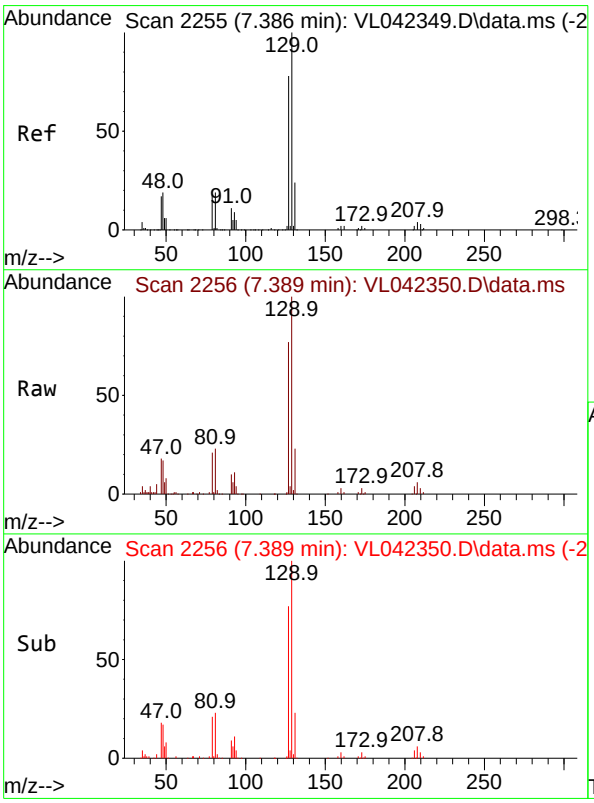
#47
1,1,2-Trichloroethane
Concen: 2.049 ppbv
RT: 6.590 min Scan# 2
Delta R.T. 0.010 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 97 Resp: 29879

Ion	Ratio	Lower	Upper
97	100		
83	78.8	72.8	109.2
85	61.7	44.2	66.4
99	49.7	47.9	71.9

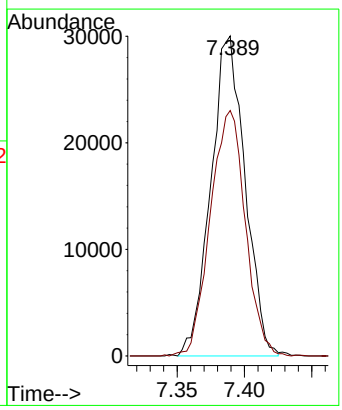


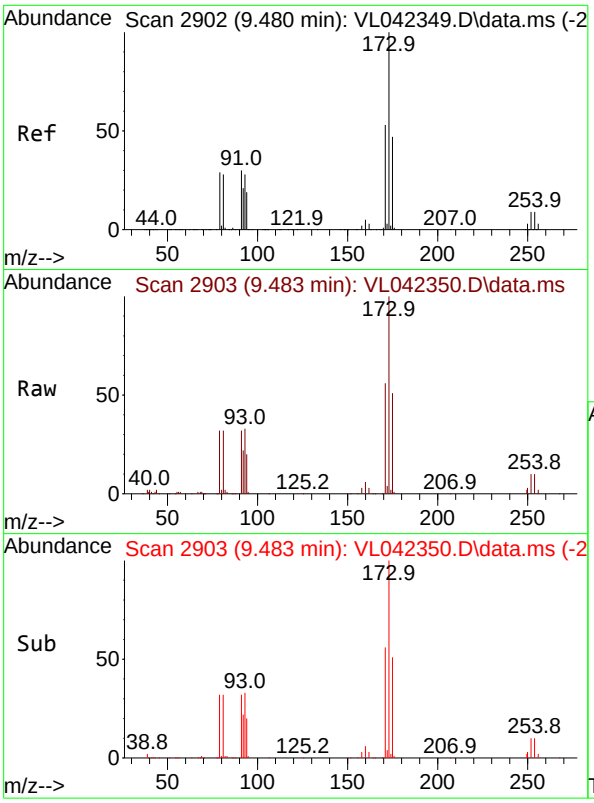


#48
Dibromochloromethane
Concen: 2.061 ppbv
RT: 7.389 min Scan# 2256
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion:129 Resp: 53069

Ion	Ratio	Lower	Upper
129	100		
127	78.4	39.1	117.3



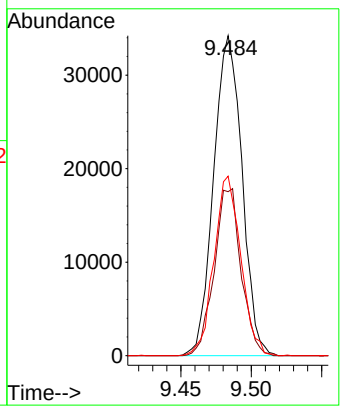


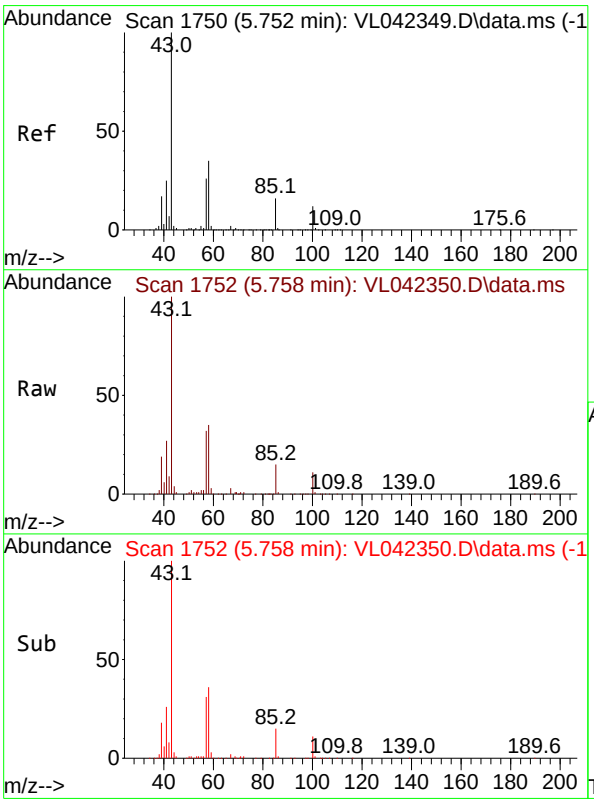
#49
Bromoform
Concen: 2.135 ppbv
RT: 9.483 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion:173 Resp: 48069

Ion	Ratio	Lower	Upper
173	100		
175	49.4	38.2	57.2
171	53.0	40.9	61.3

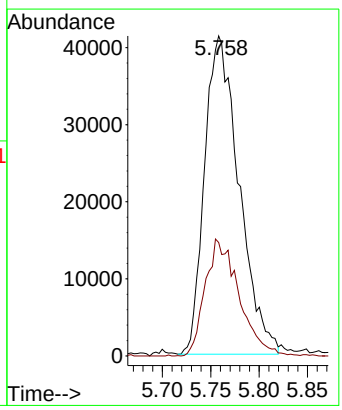


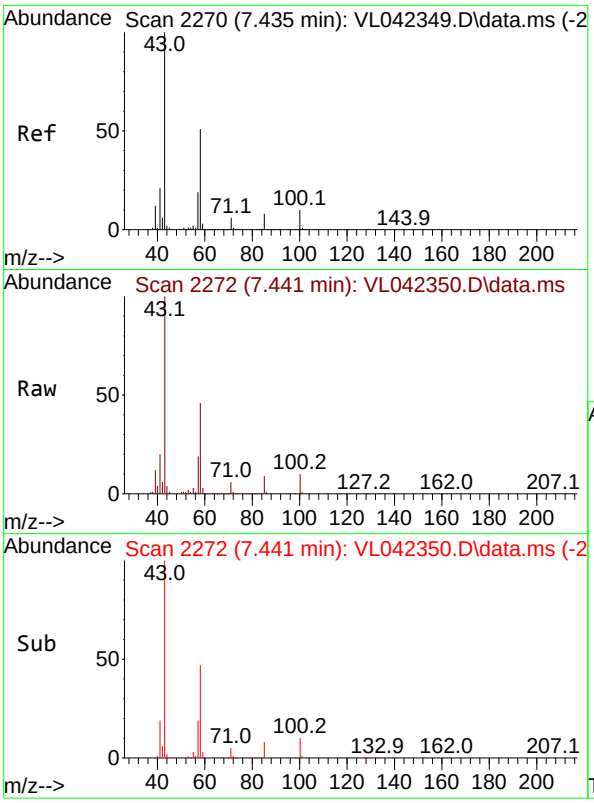


#50
4-Methyl-2-Pentanone
Concen: 2.180 ppbv
RT: 5.758 min Scan# 1752
Delta R.T. 0.006 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 43 Resp: 102182

Ion	Ratio	Lower	Upper
43	100		
58	36.3	28.6	43.0



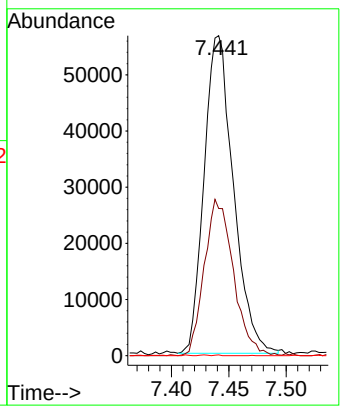


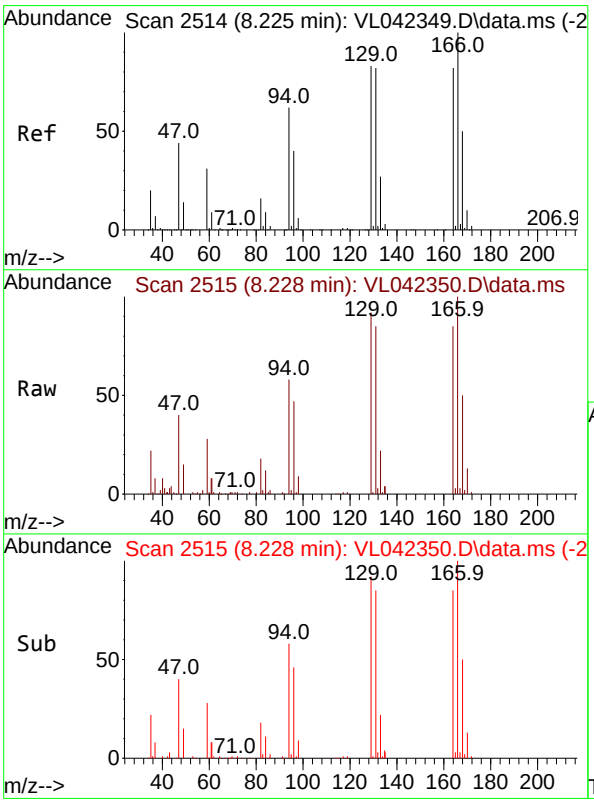
#51
2-Hexanone
Concen: 2.375 ppbv
RT: 7.441 min Scan# 2
Delta R.T. 0.006 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 43 Resp: 100443

Ion	Ratio	Lower	Upper
43	100		
58	49.0	40.2	60.4
98	0.1	0.1	0.1

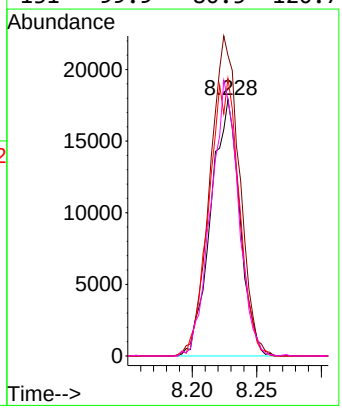


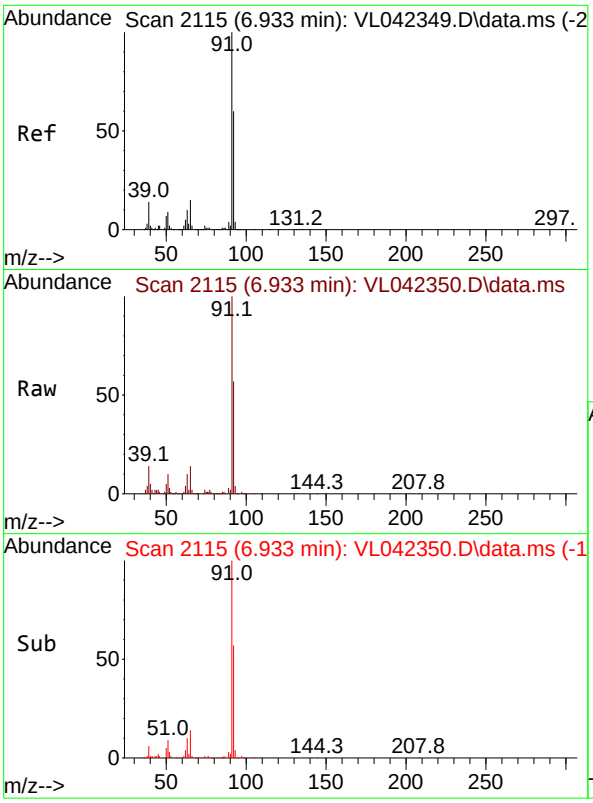


#52
Tetrachloroethene
Concen: 1.877 ppbv
RT: 8.228 min Scan# 2515
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion:164 Resp: 27854

Ion	Ratio	Lower	Upper
164	100		
166	117.2	98.2	147.2
129	108.2	81.8	122.8
131	99.9	80.5	120.7



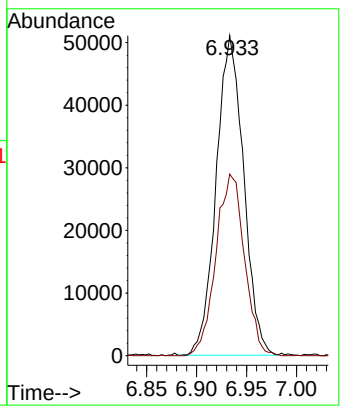


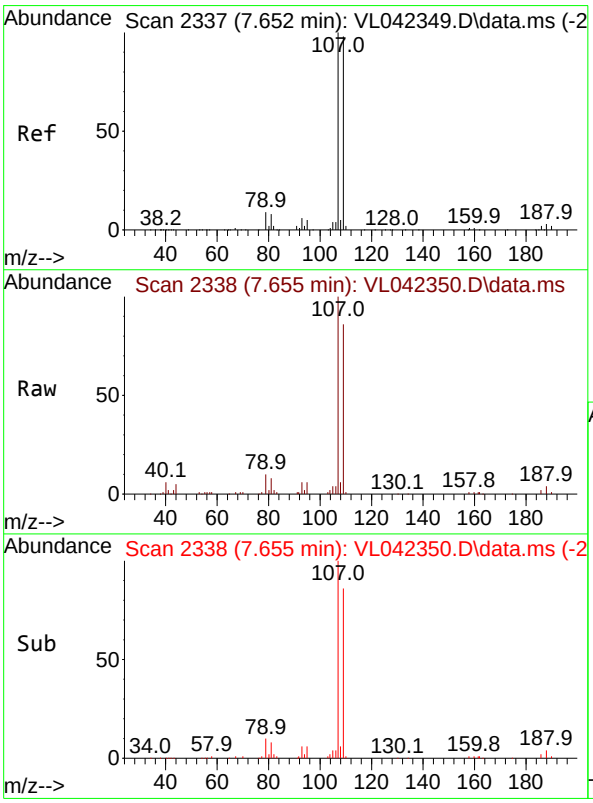
#53
Toluene
Concen: 2.116 ppbv
RT: 6.933 min Scan# 21
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 91 Resp: 97493

Ion	Ratio	Lower	Upper
91	100		
92	59.1	48.2	72.4

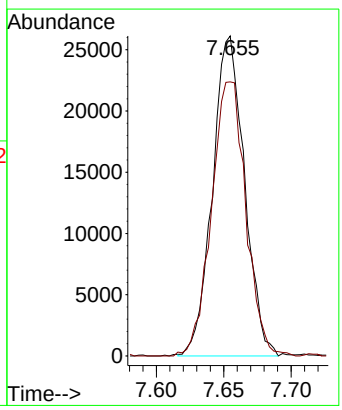


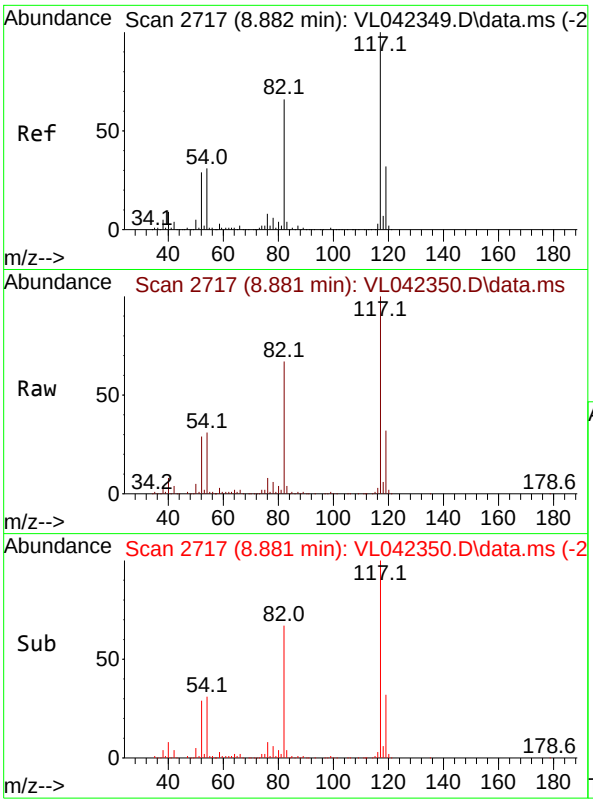


#54
1,2-Dibromoethane
Concen: 2.076 ppbv
RT: 7.655 min Scan# 2338
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion:107 Resp: 43153

Ion	Ratio	Lower	Upper
107	100		
109	84.5	78.2	117.4



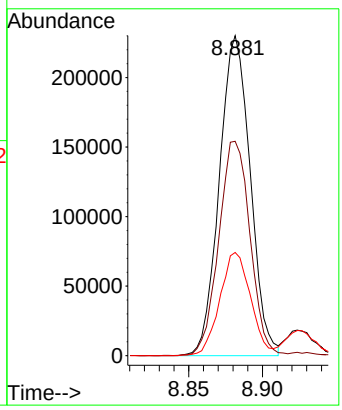


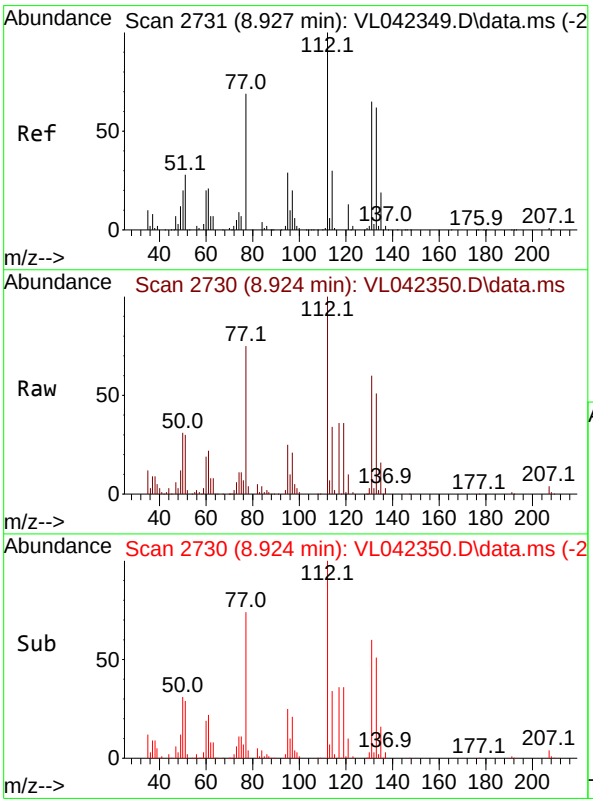
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.881 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion:117 Resp: 335603

Ion	Ratio	Lower	Upper
117	100		
82	68.8	57.8	86.6
119	32.2	25.2	37.8

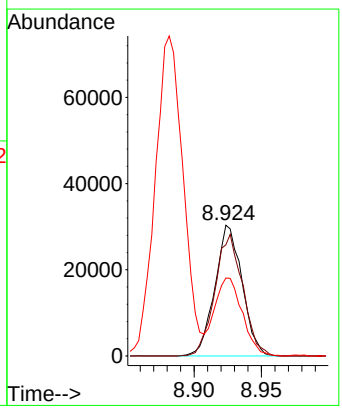


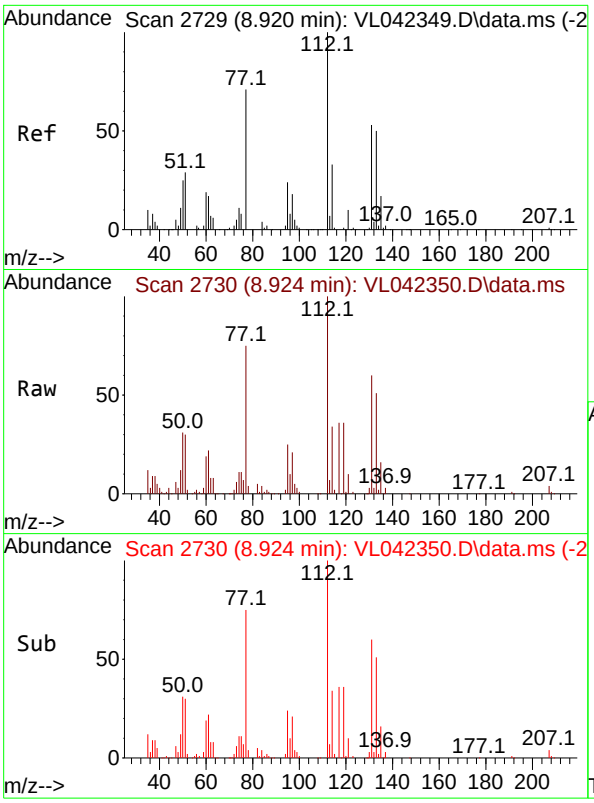


#56
1,1,1,2-Tetrachloroethane
Concen: 2.097 ppbv
RT: 8.924 min Scan# 2730
Delta R.T. -0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion:131 Resp: 42601

Ion	Ratio	Lower	Upper
131	100		
133	95.3	78.3	117.5
119	53.8	48.7	73.1



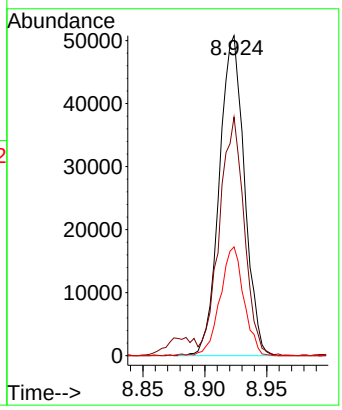


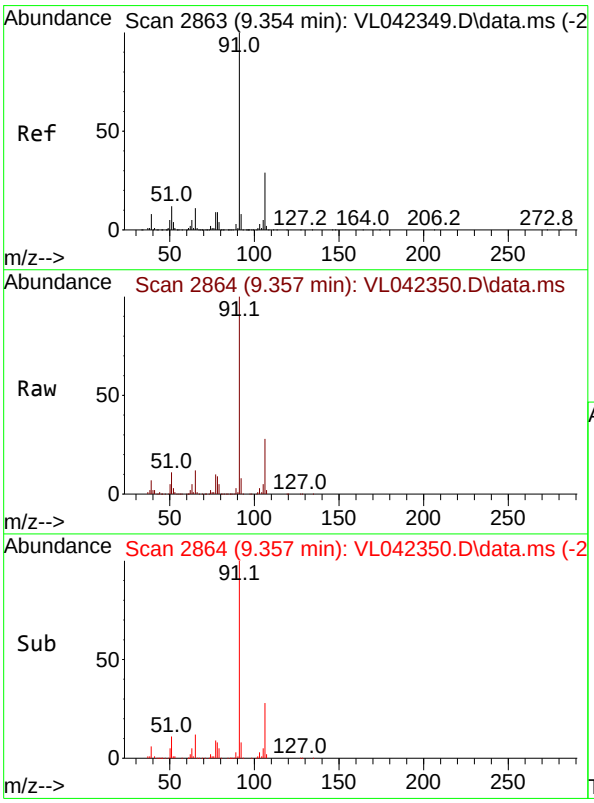
#57
Chlorobenzene
Concen: 2.054 ppbv
RT: 8.924 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion:112 Resp: 71685

Ion	Ratio	Lower	Upper
112	100		
77	74.0	57.8	86.6
114	34.0	29.3	35.9

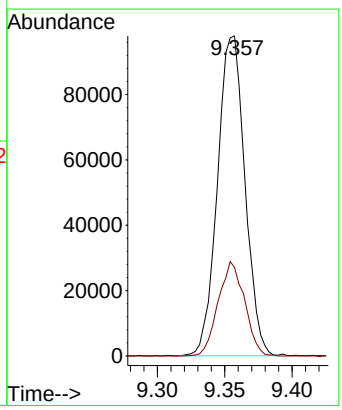


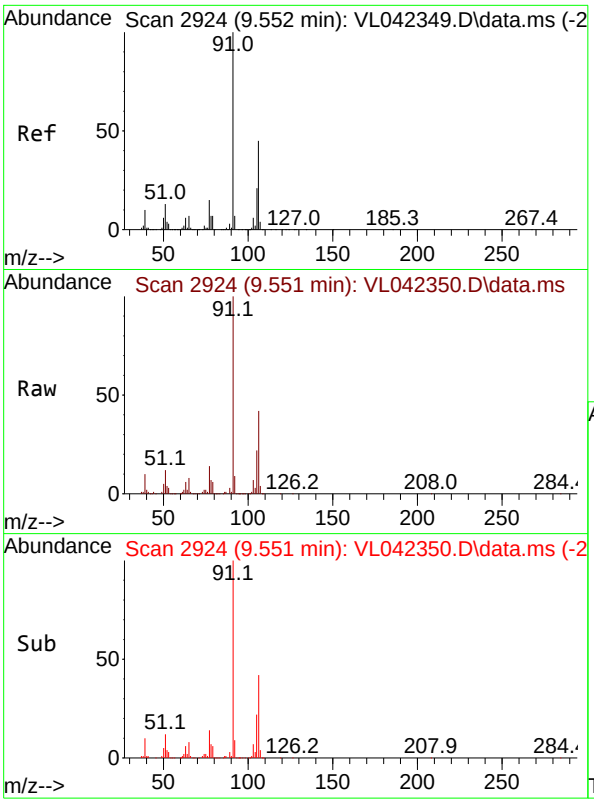


#58
Ethyl Benzene
Concen: 2.088 ppbv
RT: 9.357 min Scan# 2864
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 91 Resp: 138810

Ion	Ratio	Lower	Upper
91	100		
106	27.7	23.0	34.4



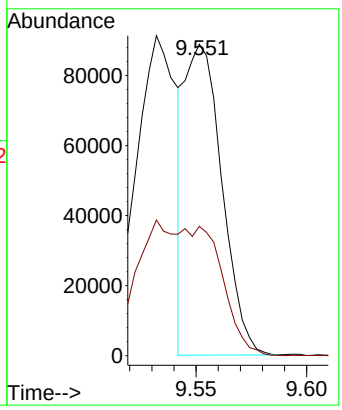


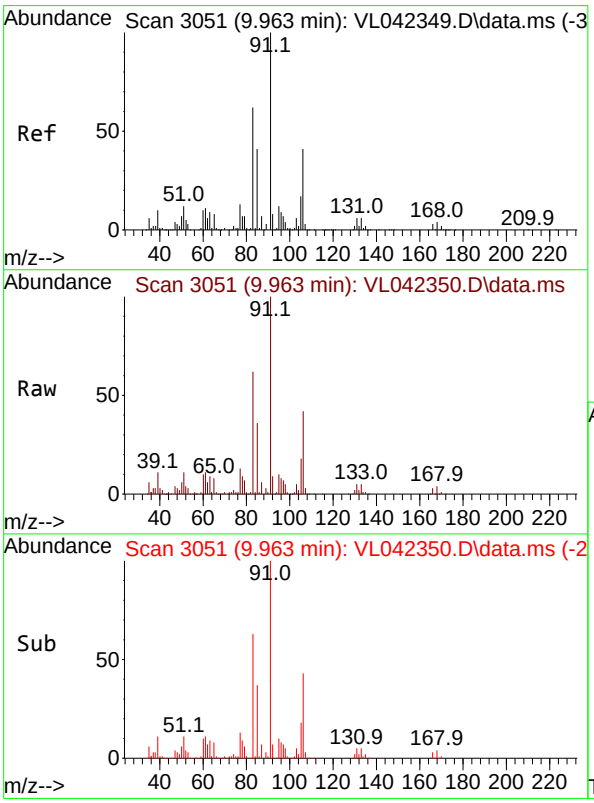
#59
m/p-Xylene
Concen: 1.934 ppbv
RT: 9.551 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 91 Resp: 103886

Ion	Ratio	Lower	Upper
91	100		
106	0.0	35.4	53.2#

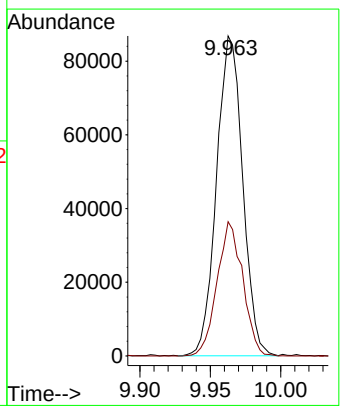


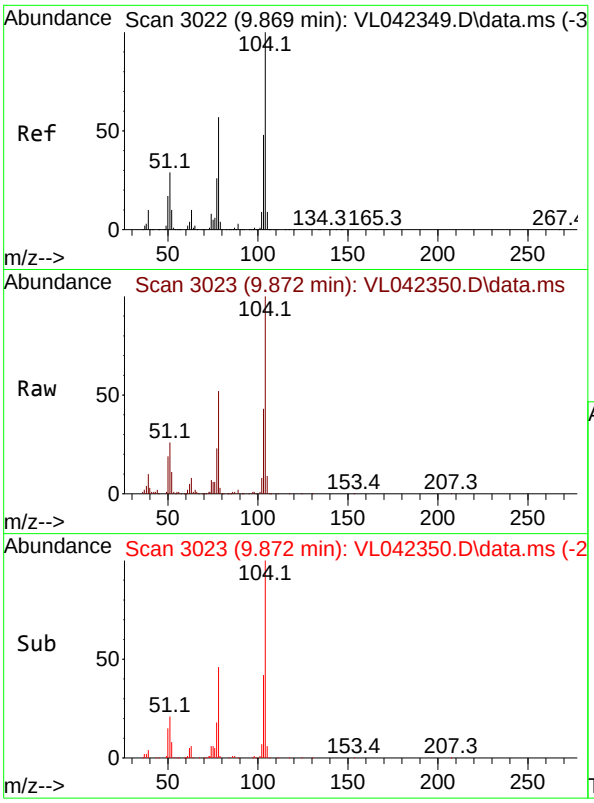


#60
o-Xylene
Concen: 2.076 ppbv
RT: 9.963 min Scan# 3051
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 91 Resp: 111972

Ion	Ratio	Lower	Upper
91	100		
106	41.2	21.1	63.4



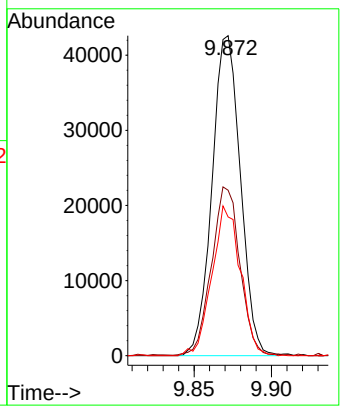


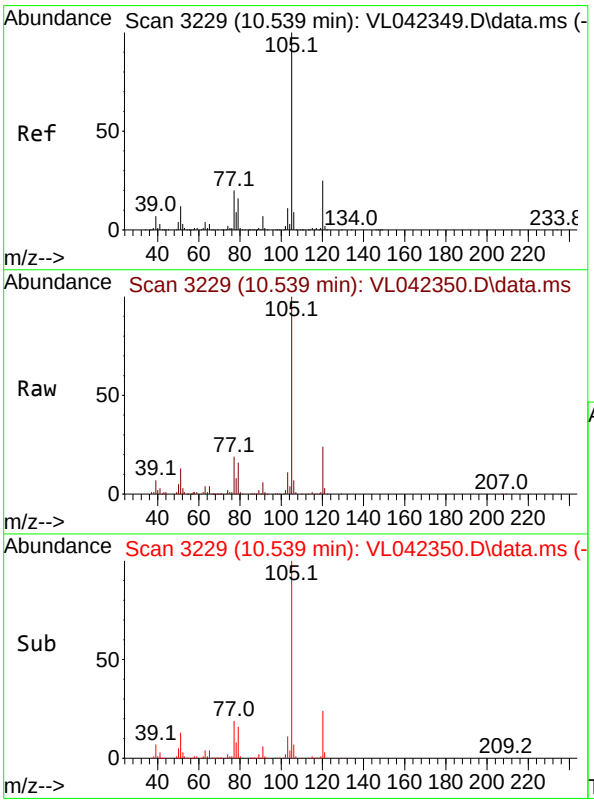
#61
Styrene
Concen: 2.106 ppbv
RT: 9.872 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion:104 Resp: 54229

Ion	Ratio	Lower	Upper
104	100		
78	53.4	44.6	66.8
103	47.1	37.4	56.0

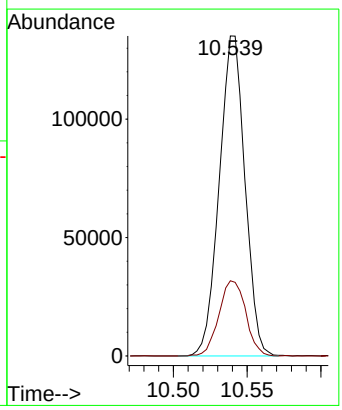


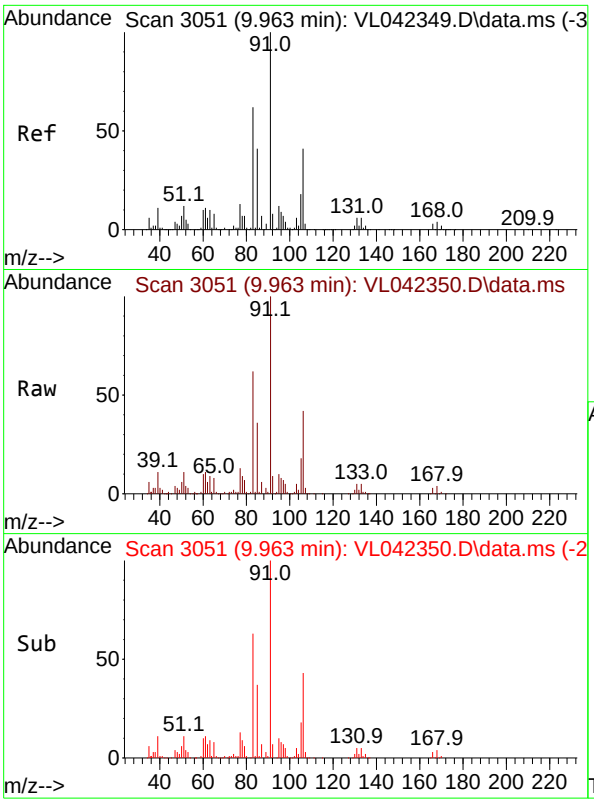


#62
Isopropylbenzene
Concen: 2.067 ppbv
RT: 10.539 min Scan# 3229
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion:105 Resp: 163716

Ion	Ratio	Lower	Upper
105	100		
120	24.6	19.8	29.8



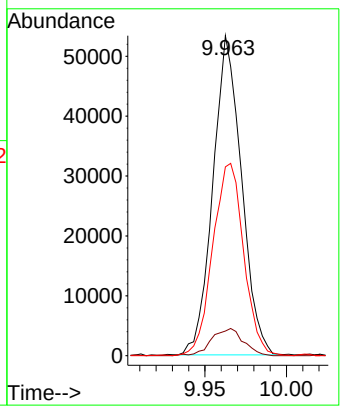


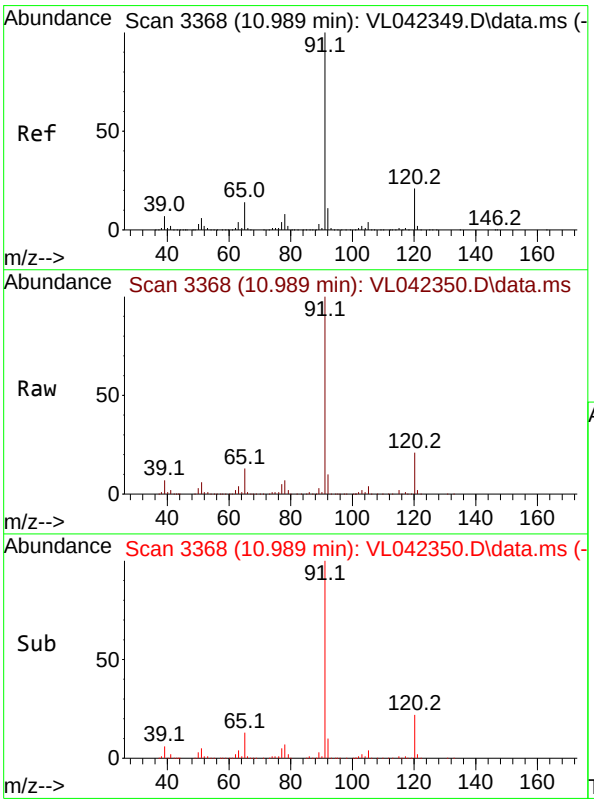
#63
1,1,2,2-Tetrachloroethane
Concen: 1.853 ppbv
RT: 9.963 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 83 Resp: 64952

Ion	Ratio	Lower	Upper
83	100		
131	9.6	4.5	13.7
85	65.4	32.4	97.0

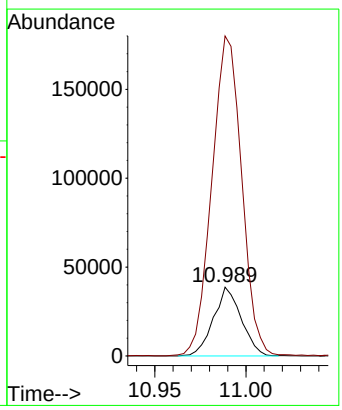


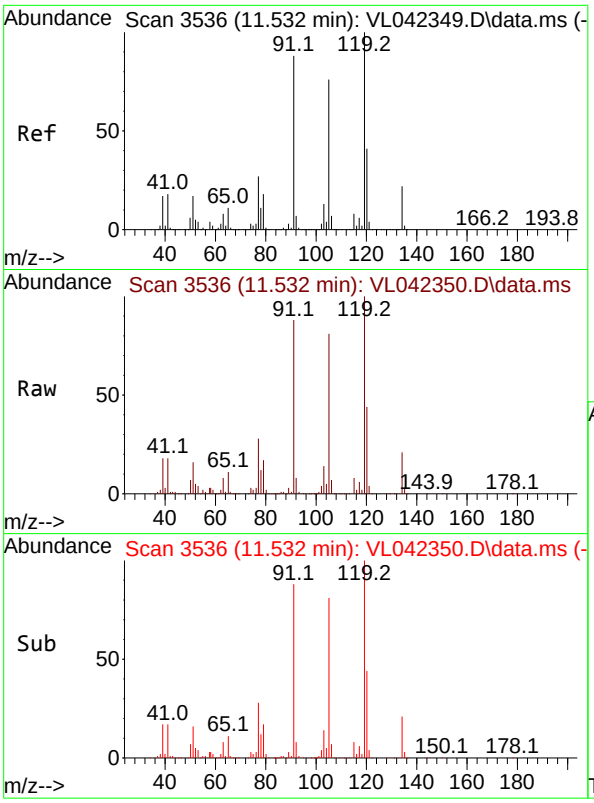


#64
n-propylbenzene
Concen: 2.058 ppbv
RT: 10.989 min Scan# 3368
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion:120 Resp: 40956

Ion	Ratio	Lower	Upper
120	100		
91	502.0	392.4	588.6



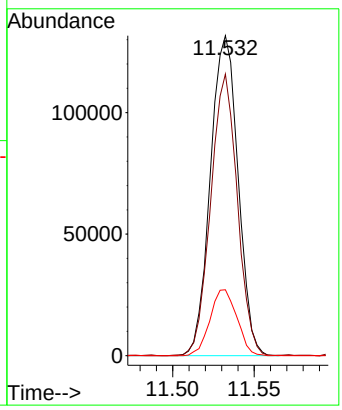


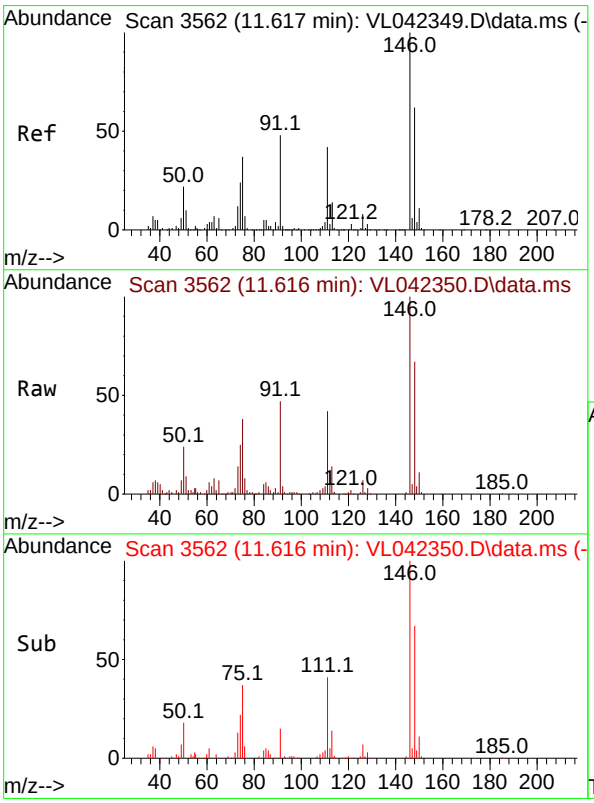
#65
tert-Butylbenzene
Concen: 2.135 ppbv
RT: 11.532 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion:119 Resp: 155401

Ion	Ratio	Lower	Upper
119	100		
91	85.0	74.6	111.8
134	20.1	18.8	28.2

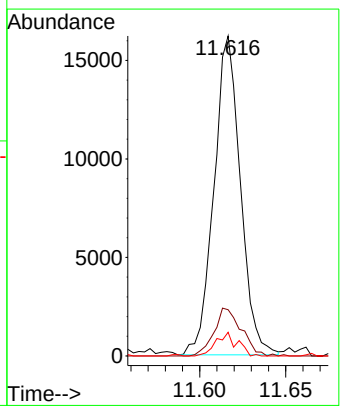


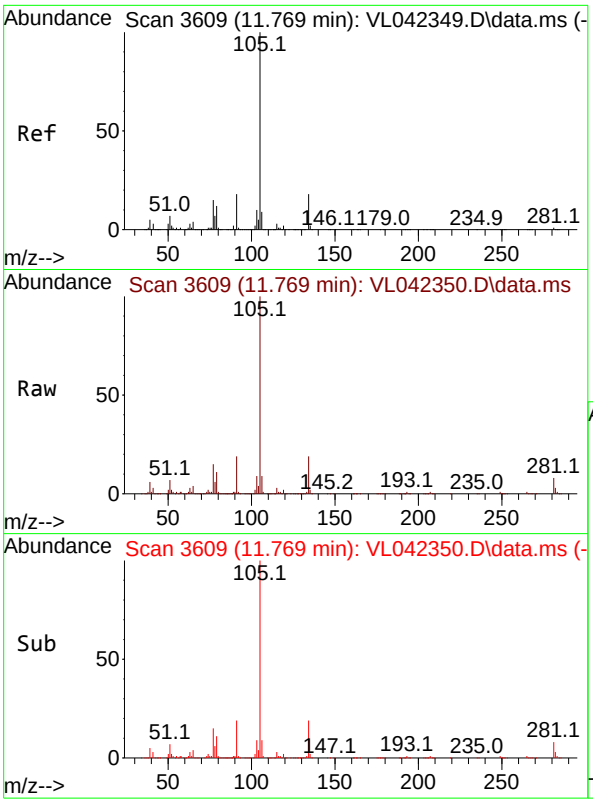


#66
Benzyl Chloride
Concen: 2.163 ppbv
RT: 11.616 min Scan# 3562
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 91 Resp: 17300

Ion	Ratio	Lower	Upper
91	100		
126	15.6	11.8	17.6
128	6.1	4.5	6.7



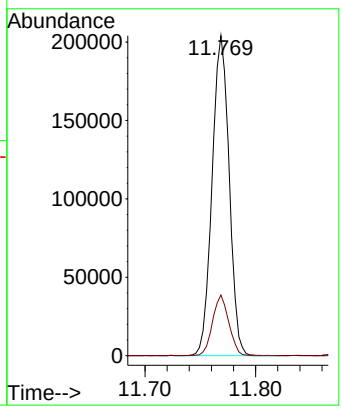


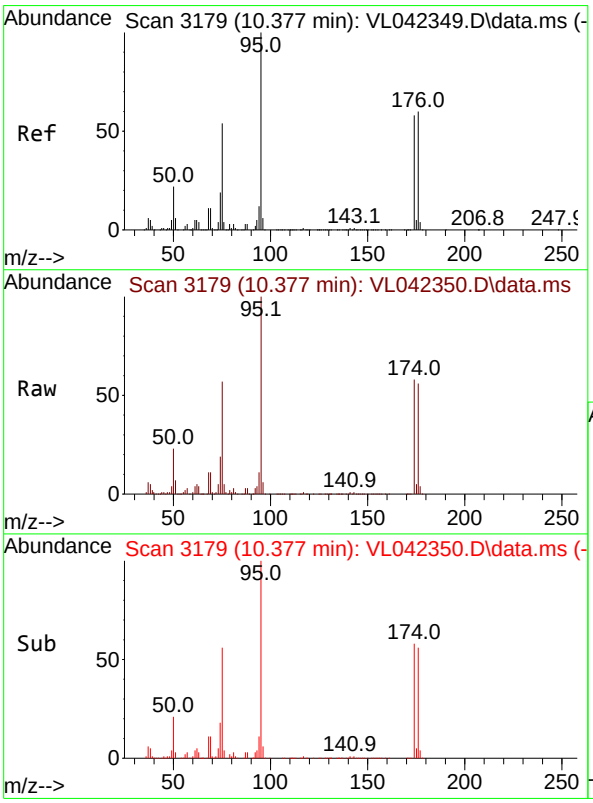
#67
sec-Butylbenzene
Concen: 2.156 ppbv
RT: 11.769 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion:105 Resp: 218327

Ion	Ratio	Lower	Upper
105	100		
134	18.1	14.6	21.8

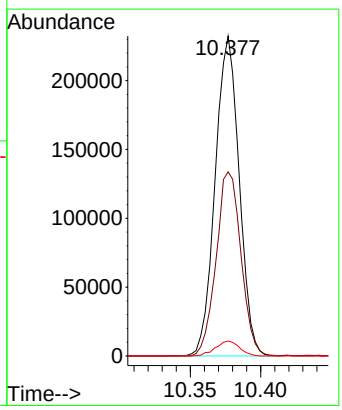


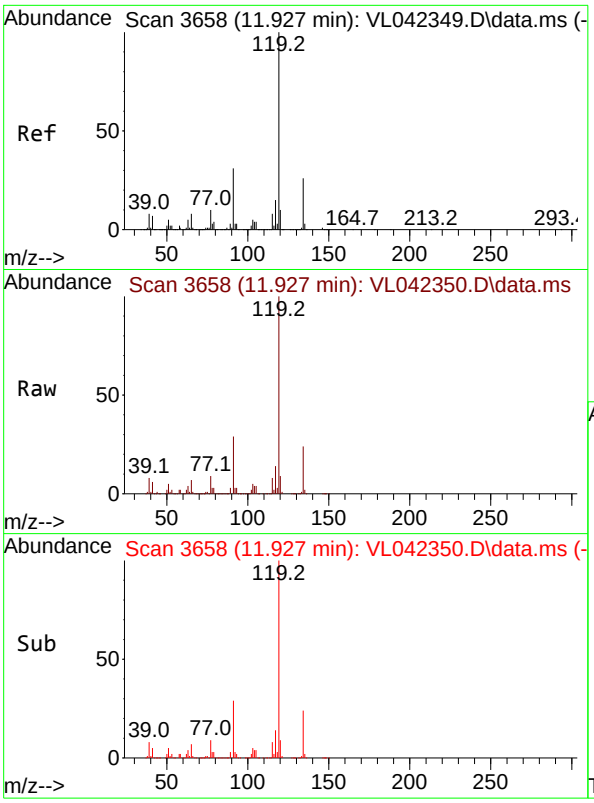


#68
1-Bromo-4-Fluorobenzene
Concen: 9.998 ppbv
RT: 10.377 min Scan# 3179
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 95 Resp: 275715

Ion	Ratio	Lower	Upper
95	100		
174	59.6	48.5	72.7
175	4.7	3.7	5.5



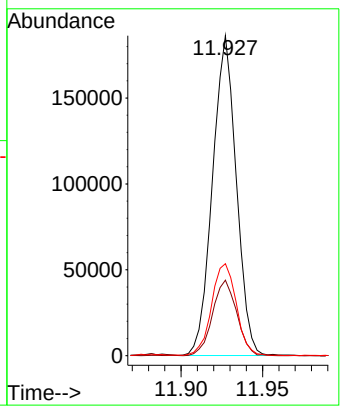


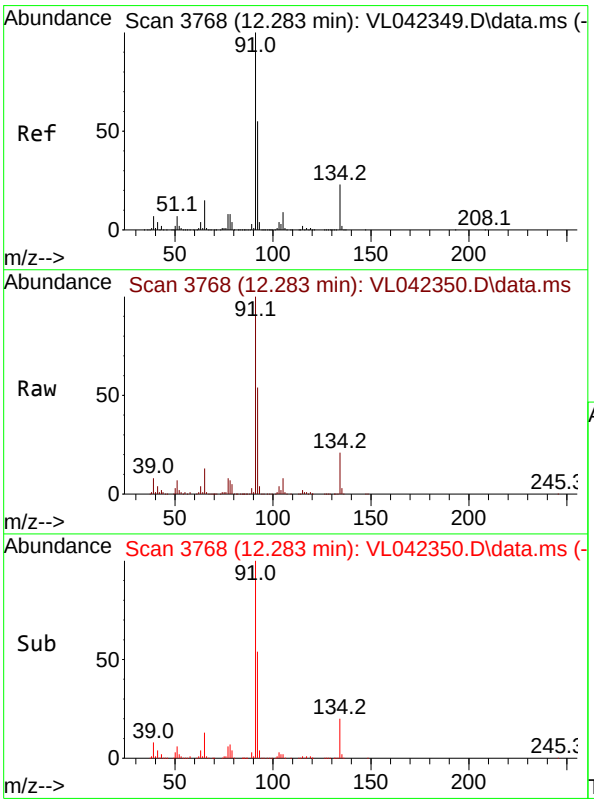
#69
p-Isopropyltoluene
Concen: 2.145 ppbv
RT: 11.927 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion:119 Resp: 188657

Ion	Ratio	Lower	Upper
119	100		
134	24.2	20.0	30.0
91	30.8	24.4	36.6

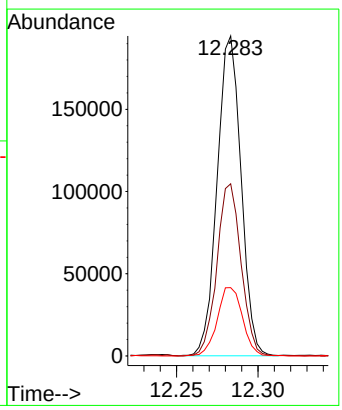


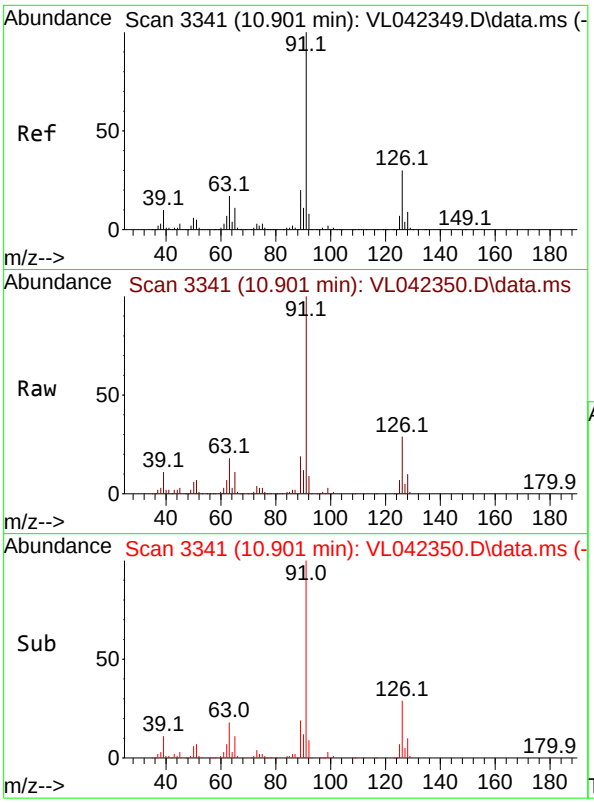


#70
n-Butylbenzene
Concen: 2.164 ppbv
RT: 12.283 min Scan# 3768
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 91 Resp: 198221

Ion	Ratio	Lower	Upper
91	100		
92	54.4	44.2	66.4
134	22.6	18.2	27.4



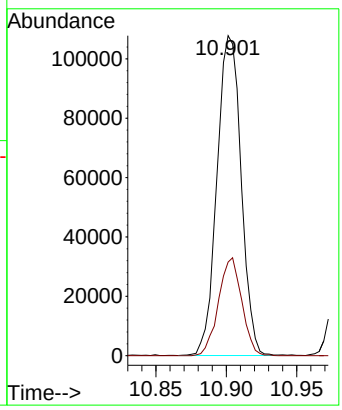


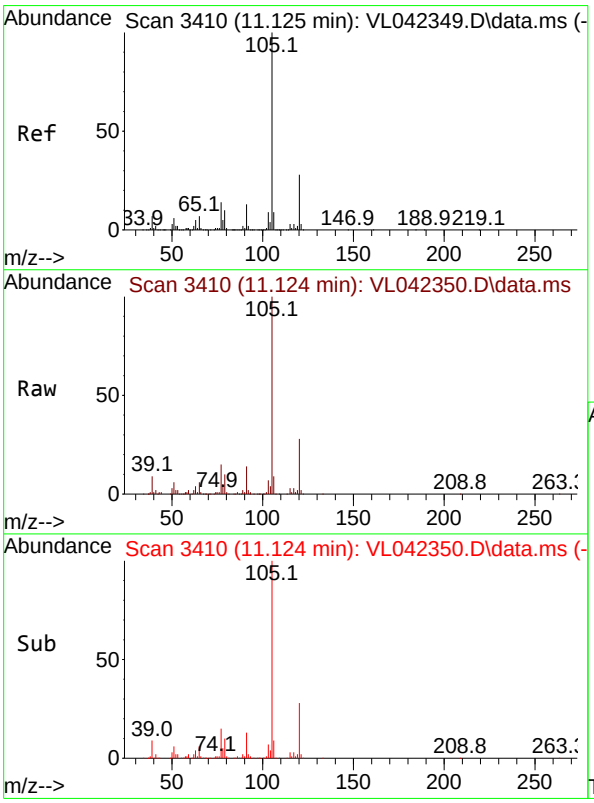
#71
2-Chlorotoluene
Concen: 2.075 ppbv
RT: 10.901 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 91 Resp: 128858

Ion	Ratio	Lower	Upper
91	100		
126	29.5	11.4	45.4

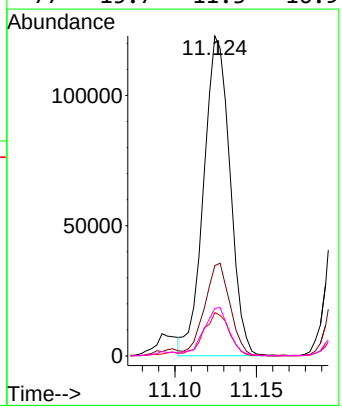


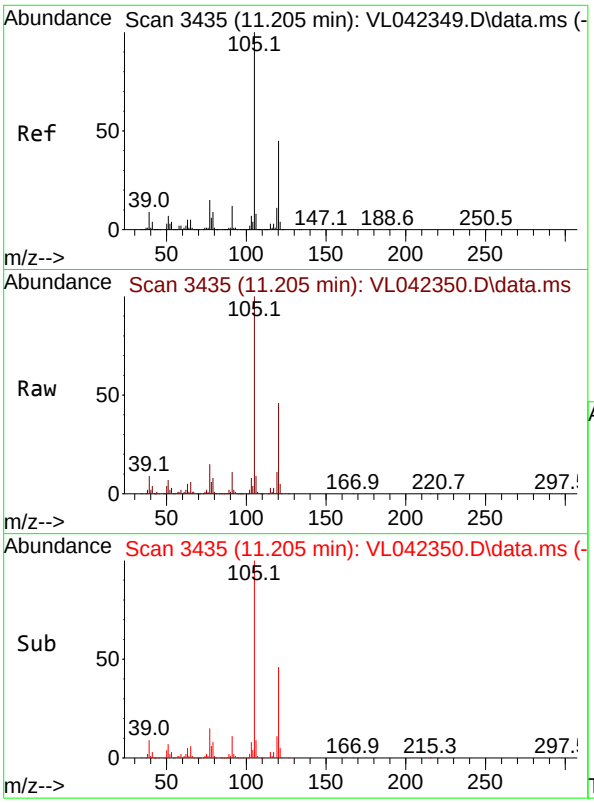


#72
4-Ethyltoluene
Concen: 2.091 ppbv
RT: 11.124 min Scan# 3410
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion:105 Resp: 137872

Ion	Ratio	Lower	Upper
105	100		
120	30.1	23.2	34.8
91	14.4	10.4	15.6
77	15.7	11.3	16.9



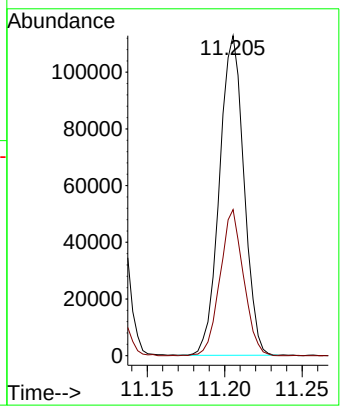


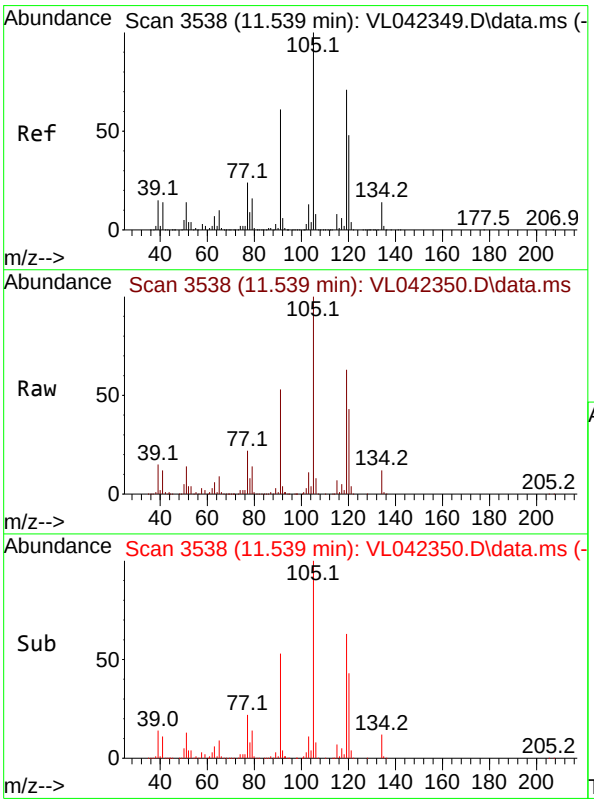
#73
1,3,5-Trimethylbenzene
Concen: 2.123 ppbv
RT: 11.205 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion:105 Resp: 123580

Ion	Ratio	Lower	Upper
105	100		
120	45.7	35.6	53.4

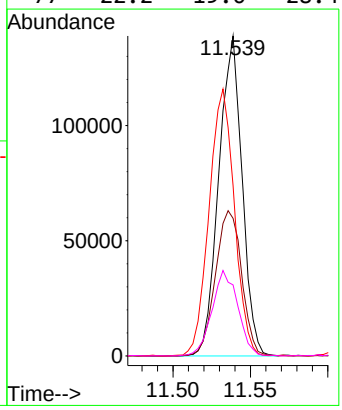


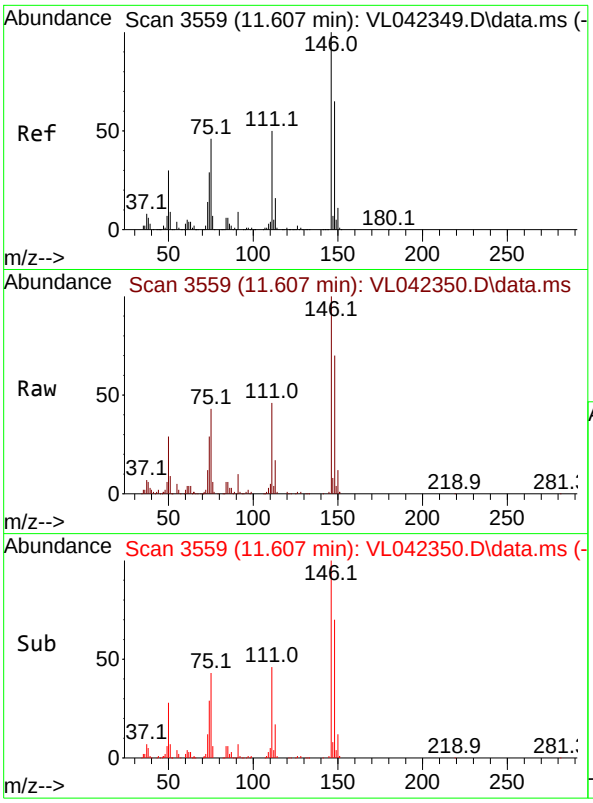


#74
1,2,4-Trimethylbenzene
Concen: 2.140 ppbv
RT: 11.539 min Scan# 3538
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion:105 Resp: 145510

Ion	Ratio	Lower	Upper
105	100		
120	43.0	38.1	57.1
91	53.1	48.8	73.2
77	22.2	19.0	28.4



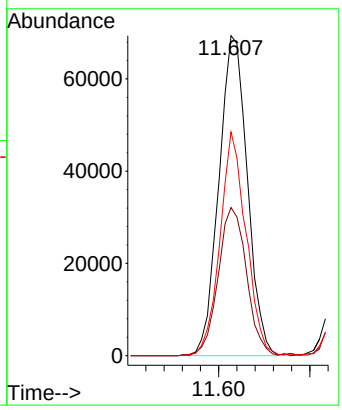


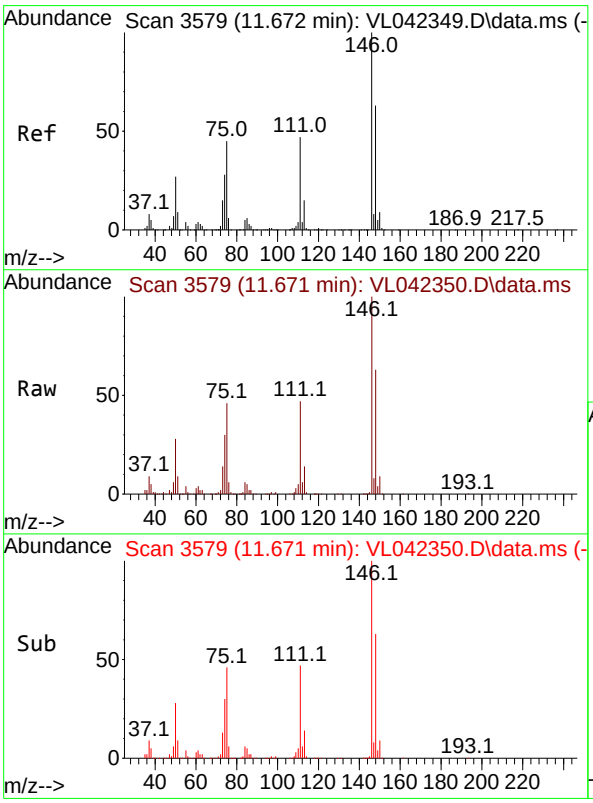
#75
1,3-Dichlorobenzene
Concen: 2.124 ppbv
RT: 11.607 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion:146 Resp: 75082

Ion	Ratio	Lower	Upper
146	100		
111	46.3	24.3	72.8
148	64.3	31.6	94.8

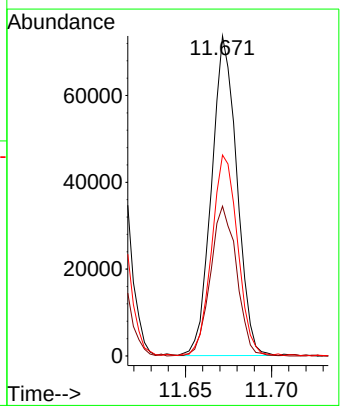


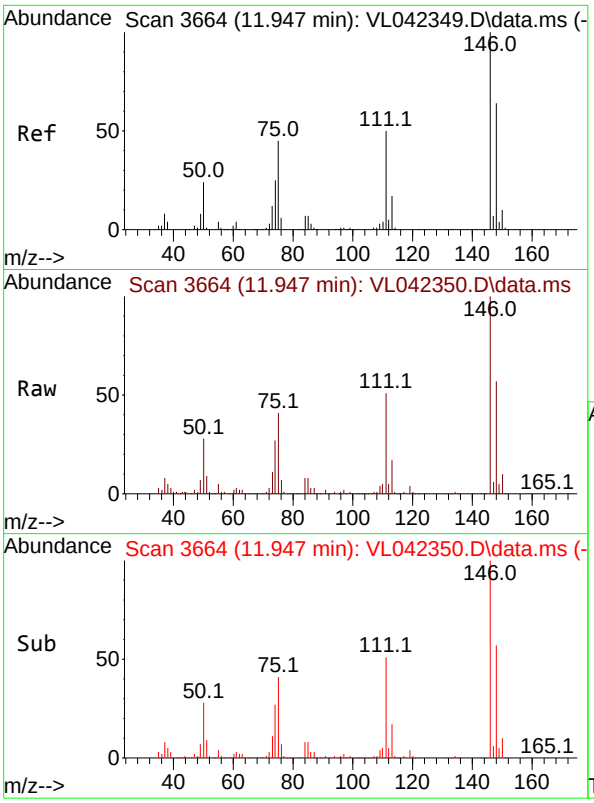


#76
1,4-Dichlorobenzene
Concen: 2.120 ppbv
RT: 11.671 min Scan# 3579
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion:146 Resp: 75323

Ion	Ratio	Lower	Upper
146	100		
111	48.4	24.2	72.6
148	65.1	32.1	96.5



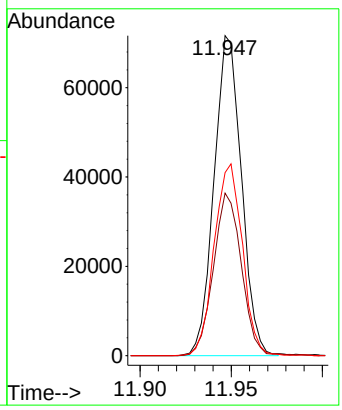


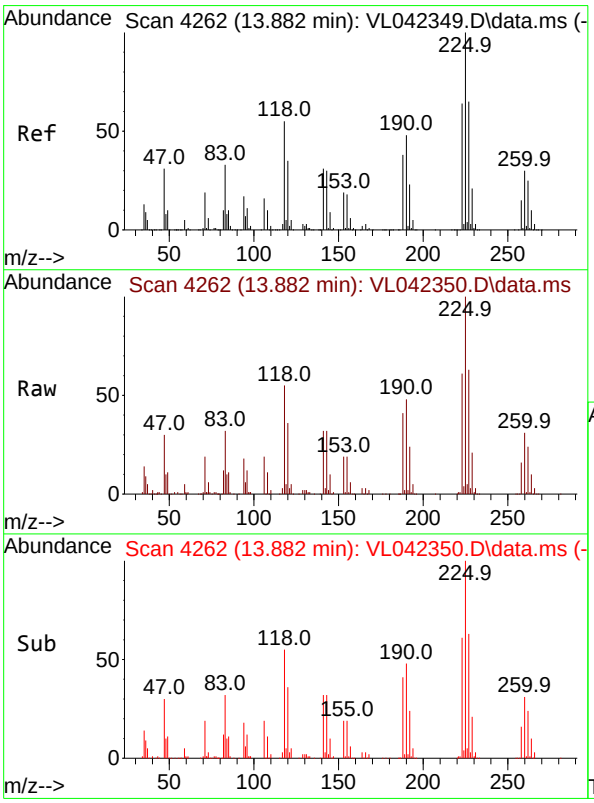
#77
1,2-Dichlorobenzene
Concen: 2.176 ppbv
RT: 11.947 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion:146 Resp: 74786

Ion	Ratio	Lower	Upper
146	100		
111	52.0	25.3	75.9
148	61.8	31.5	94.5

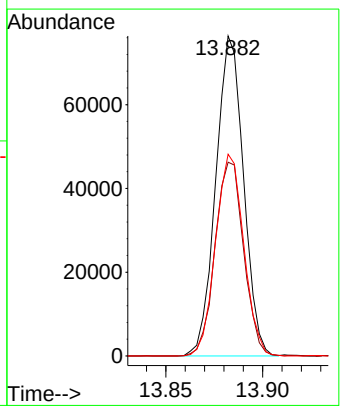


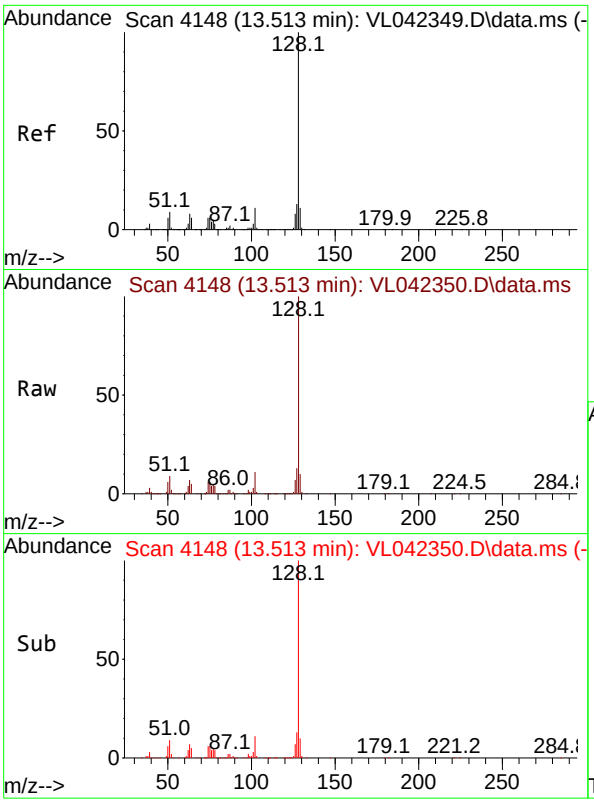


#78
Hexachloro-1,3-Butadiene
Concen: 2.194 ppbv
RT: 13.882 min Scan# 4262
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion:225 Resp: 76158

Ion	Ratio	Lower	Upper
225	100		
223	62.6	50.3	75.5
227	64.1	51.5	77.3



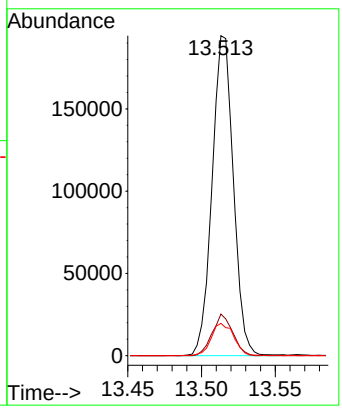


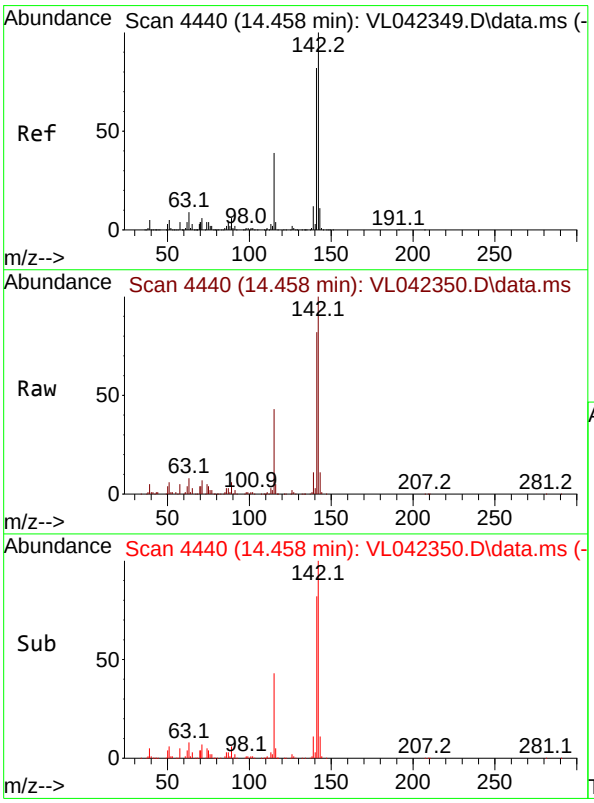
#79
Naphthalene
Concen: 2.401 ppbv
RT: 13.513 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion:128 Resp: 195233

Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.6	15.8
129	10.1	8.6	12.8

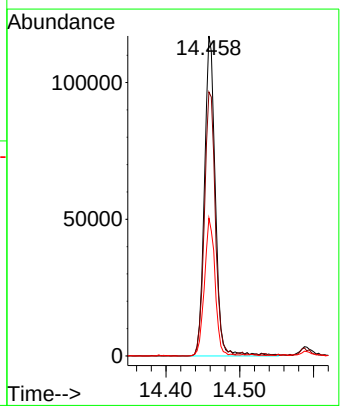


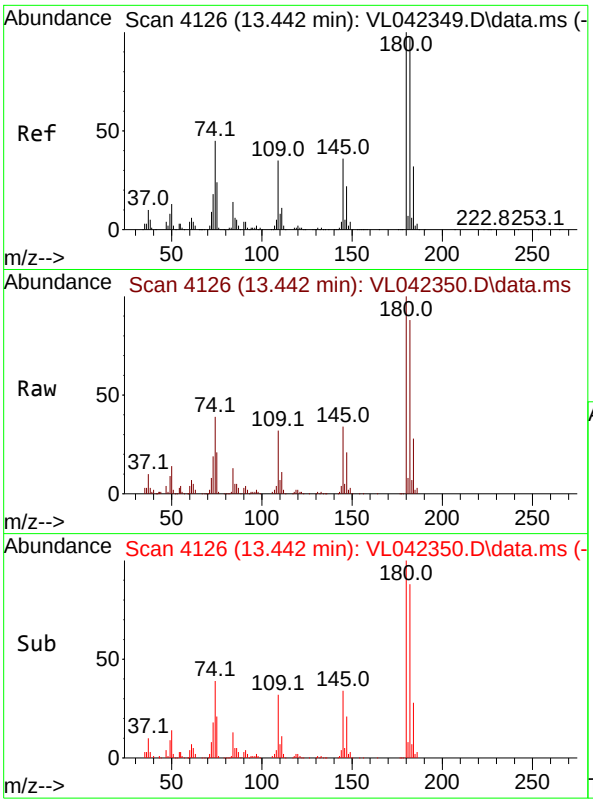


#80
Naphthalene,2-methyl-
Concen: 2.574 ppbv
RT: 14.458 min Scan# 4440
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion:142 Resp: 119262

Ion	Ratio	Lower	Upper
142	100		
141	84.7	66.8	100.2
115	42.2	33.4	50.2



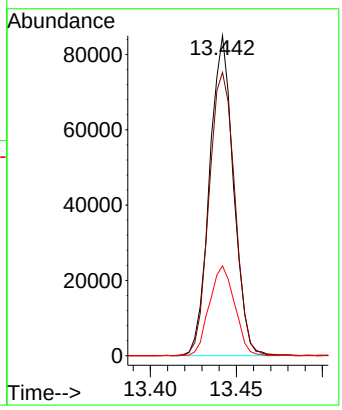


#81
1,2,4-Trichlorobenzene
Concen: 2.353 ppbv
RT: 13.442 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion:180 Resp: 82156

Ion	Ratio	Lower	Upper
180	100		
182	95.1	76.8	115.2
184	29.8	24.6	36.8



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042351.D
Acq On : 17 Apr 2025 10:48
Operator : SY/MD
Sample : VSTDICC001
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Quant Time: Apr 18 01:27:33 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Apr 18 01:24:29 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.791	49	124177	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	359907	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	329090	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	269087	9.950	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 99.500%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	22816	1.040	ppbv	93
3) Chlorodifluoromethane	1.476	51	20573	0.985	ppbv	97
4) Chloromethane	1.535	50	9008	1.038	ppbv	99
5) Vinyl Chloride	1.580	62	8807	0.932	ppbv	98
6) Bromomethane	1.671	94	4099	1.001	ppbv	91
7) Chloroethane	1.706	64	3559	1.041	ppbv	90
8) Dichlorotetrafluoroethane	1.554	85	19251	1.022	ppbv	100
9) Propene	1.486	41	9892	1.040	ppbv	92
10) Heptane	4.982	43	16193	0.633	ppbv #	49
11) Trichlorofluoromethane	1.878	101	22428	1.075	ppbv	99
12) 1,1,2-Trichlorotrifluo...	2.140	101	17865	1.047	ppbv	98
13) Ethanol	1.722	45	810	1.042	ppbv #	43
14) Bromoethene	1.784	108	6766	1.052	ppbv #	89
15) Acetone	1.839	43	23537	1.158	ppbv	97
16) 1,3-Butadiene	1.609	39	9495	0.995	ppbv	96
17) tert-Butyl alcohol	2.043	59	26477	1.051	ppbv #	90
18) 1,1-Dichloroethene	2.036	96	7890	0.962	ppbv	94
19) Isopropyl Alcohol	1.888	45	12175	1.078	ppbv #	39
20) Methylene Chloride	2.062	84	9046	1.136	ppbv	87
21) Allyl Chloride	2.098	41	15057	1.073	ppbv	91
22) trans-1,2-Dichloroethene	2.344	96	9421	1.038	ppbv	96
23) Vinyl Acetate	2.467	43	9234	1.122	ppbv #	90
24) 1,1-Dichloroethane	2.409	63	18236	1.058	ppbv	99
25) Ethyl Acetate	2.842	43	51494	1.027	ppbv #	97
26) Hexane	2.826	57	21350	1.053	ppbv	95
27) Carbon Disulfide	2.153	76	20739	0.955	ppbv #	1
28) Methyl tert-Butyl Ether	2.444	73	14164	1.066	ppbv #	85
29) Chloroform	2.852	83	28973	1.011	ppbv	100
30) Cyclohexane	3.862	84	8430	0.516	ppbv #	1
31) cis-1,2-Dichloroethene	2.723	61	19904	1.032	ppbv	97
32) 1,1,1-Trichloroethane	3.376	97	31653	1.030	ppbv	98
34) 2-Butanone	2.564	43	29735	1.045	ppbv	99
35) Carbon Tetrachloride	3.768	117	29875	0.917	ppbv	94
36) Benzene	3.661	78	38707	0.997	ppbv	95
37) 1,2-Dichloroethane	3.224	62	23284	0.999	ppbv	97
38) Trichloroethene	4.551	130	16119	0.947	ppbv	96
39) 1,2-Dichloropropane	4.318	63	14866	1.027	ppbv	96
40) 1,4-Dioxane	4.603	88	967	0.123	ppbv #	1
41) Tetrahydrofuran	3.062	42	17259	1.049	ppbv	96
42) Bromodichloromethane	4.490	83	32721	1.009	ppbv #	98
43) Methyl Methacrylate	4.885	69	13084	0.751	ppbv #	47
44) 2,2,4-Trimethylpentane	4.648	57	28653	0.427	ppbv #	21
45) t-1,3-Dichloropropene	6.416	75	11763	0.658	ppbv	99

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042351.D
Acq On : 17 Apr 2025 10:48
Operator : SY/MD
Sample : VSTDICC001
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Quant Time: Apr 18 01:27:33 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Apr 18 01:24:29 2025
Response via : Initial Calibration

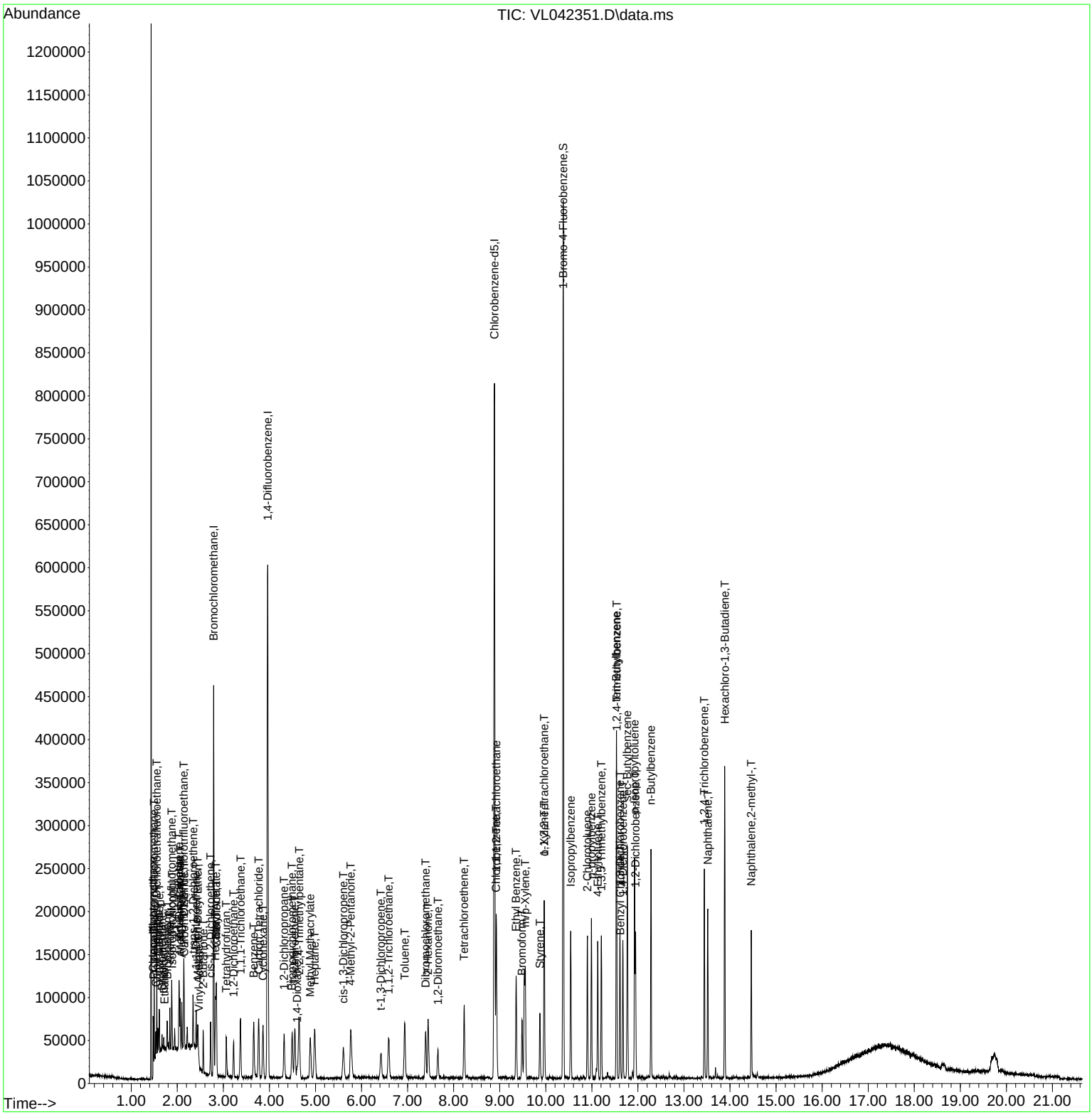
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) cis-1,3-Dichloropropene	5.603	75	13028	0.596	ppbv		95
47) 1,1,2-Trichloroethane	6.587	97	7690	0.521	ppbv	#	78
48) Dibromochloromethane	7.390	129	25948	0.997	ppbv		100
49) Bromoform	9.484	173	22413	0.984	ppbv		98
50) 4-Methyl-2-Pentanone	5.765	43	49725	1.049	ppbv		97
51) 2-Hexanone	7.445	43	47178	1.103	ppbv		99
52) Tetrachloroethene	8.228	164	14154	0.943	ppbv		93
53) Toluene	6.940	91	46611	1.001	ppbv		100
54) 1,2-Dibromoethane	7.658	107	21780	1.036	ppbv		93
56) 1,1,1,2-Tetrachloroethane	8.927	131	21052	1.057	ppbv		95
57) Chlorobenzene	8.921	112	35113	1.026	ppbv	#	95
58) Ethyl Benzene	9.354	91	68703	1.054	ppbv		96
59) m/p-Xylene	9.552	91	48794	0.926	ppbv	#	32
60) o-Xylene	9.966	91	55831	1.056	ppbv		99
61) Styrene	9.872	104	25544	1.012	ppbv		100
62) Isopropylbenzene	10.542	105	81286	1.047	ppbv		100
63) 1,1,2,2-Tetrachloroethane	9.966	83	32410	0.943	ppbv		99
64) n-propylbenzene	10.989	120	19898	1.019	ppbv		90
65) tert-Butylbenzene	11.533	119	77598	1.087	ppbv		92
66) Benzyl Chloride	11.617	91	7864	1.003	ppbv	#	91
67) sec-Butylbenzene	11.769	105	105919	1.067	ppbv		97
69) p-Isopropyltoluene	11.928	119	92733	1.075	ppbv		97
70) n-Butylbenzene	12.284	91	96306	1.072	ppbv		99
71) 2-Chlorotoluene	10.905	91	63321	1.040	ppbv		99
72) 4-Ethyltoluene	11.128	105	69698	1.078	ppbv		99
73) 1,3,5-Trimethylbenzene	11.206	105	60927	1.067	ppbv		99
74) 1,2,4-Trimethylbenzene	11.539	105	73888	1.108	ppbv		95
75) 1,3-Dichlorobenzene	11.610	146	36877	1.064	ppbv		98
76) 1,4-Dichlorobenzene	11.675	146	36692	1.053	ppbv		98
77) 1,2-Dichlorobenzene	11.950	146	35977	1.068	ppbv		97
78) Hexachloro-1,3-Butadiene	13.886	225	37377	1.098	ppbv		99
79) Naphthalene	13.517	128	90710	1.138	ppbv		99
80) Naphthalene,2-methyl-	14.462	142	50487	1.111	ppbv		98
81) 1,2,4-Trichlorobenzene	13.442	180	36764	1.074	ppbv		99

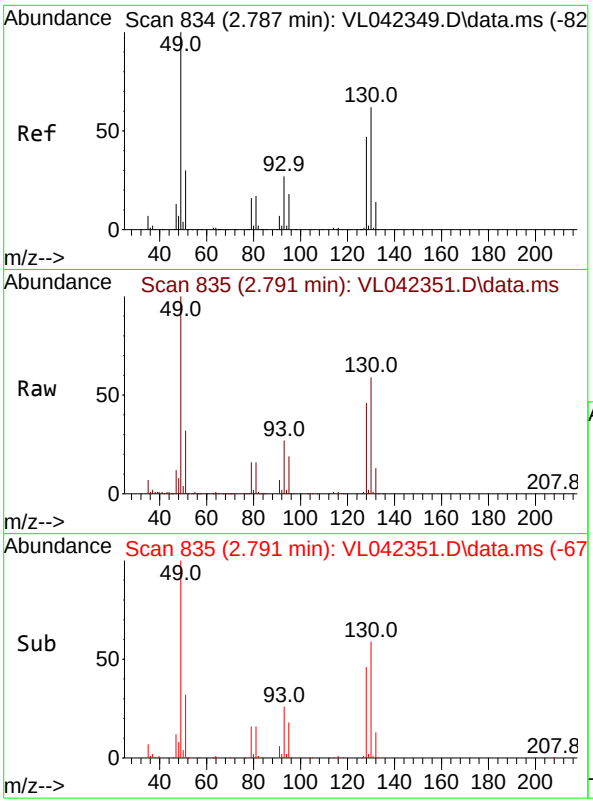
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042351.D
Acq On : 17 Apr 2025 10:48
Operator : SY/MD
Sample : VSTDICC001
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Quant Time: Apr 18 01:27:33 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Apr 18 01:24:29 2025
Response via : Initial Calibration



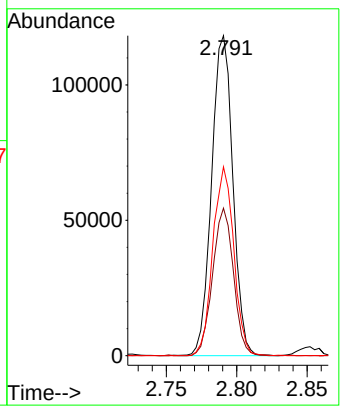


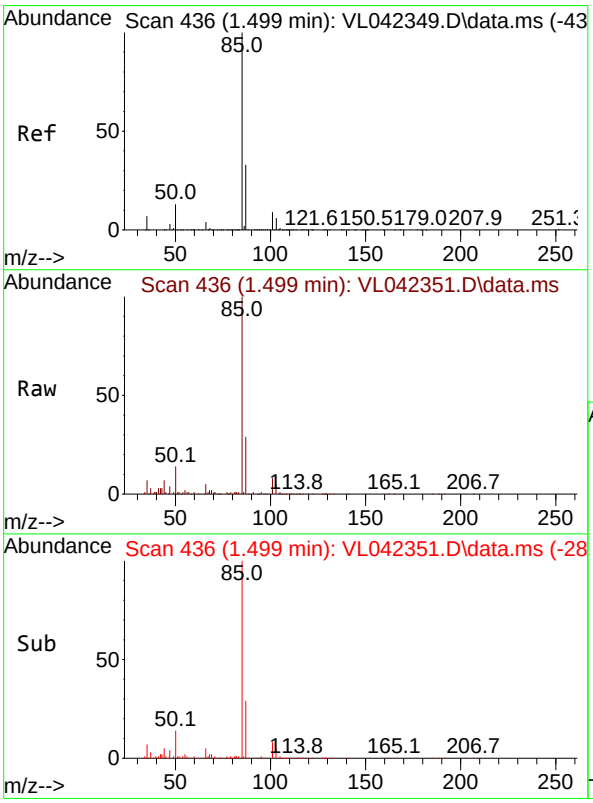
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.791 min Scan# 8
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 49 Resp: 124177

Ion	Ratio	Lower	Upper
49	100		
128	45.2	22.8	68.4
130	58.1	29.3	88.0

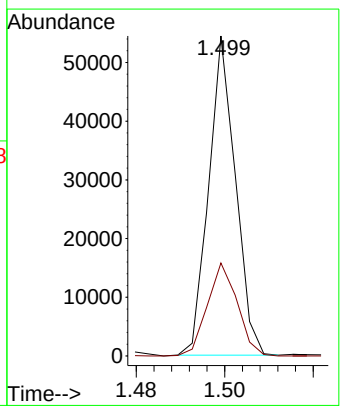


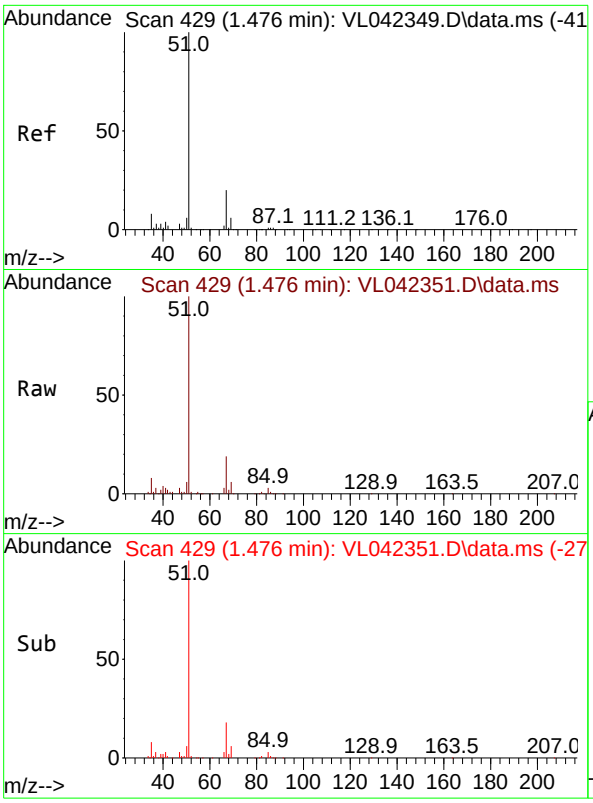


#2
Dichlorodifluoromethane
Concen: 1.040 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 85 Resp: 22816

Ion	Ratio	Lower	Upper
85	100		
87	29.1	26.6	39.8



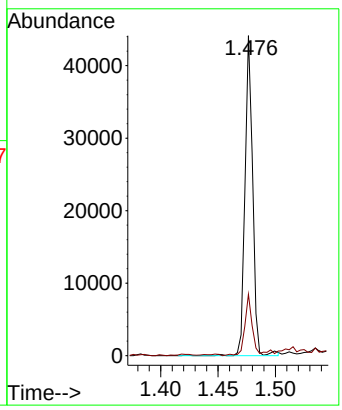


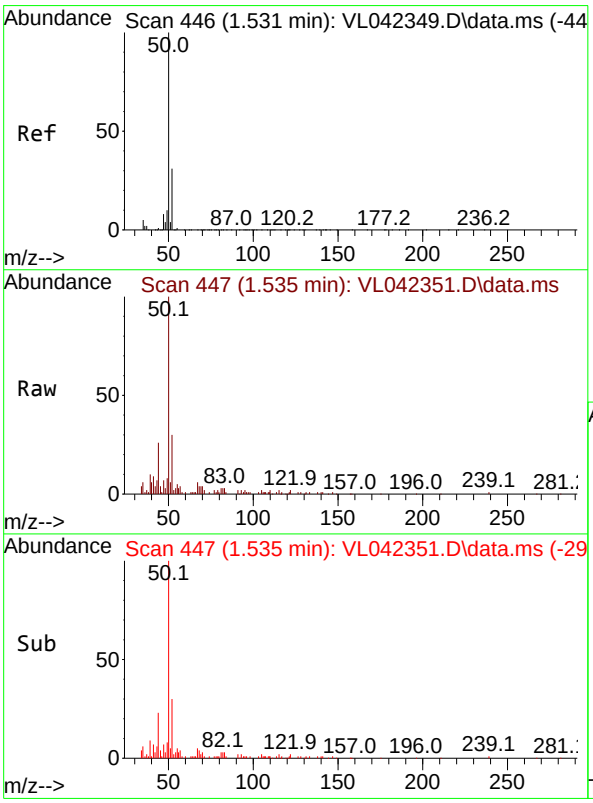
#3
Chlorodifluoromethane
Concen: 0.985 ppbv
RT: 1.476 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 51 Resp: 20573

Ion	Ratio	Lower	Upper
51	100		
67	19.1	16.2	24.4

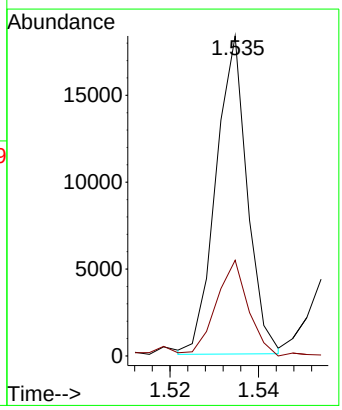


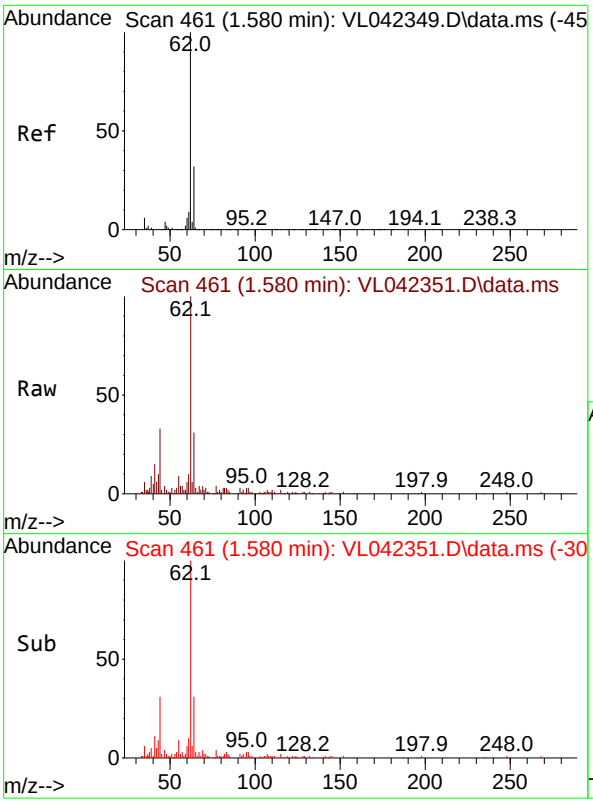


#4
Chloromethane
Concen: 1.038 ppbv
RT: 1.535 min Scan# 447
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 50 Resp: 9008

Ion	Ratio	Lower	Upper
50	100		
52	30.4	24.7	37.1



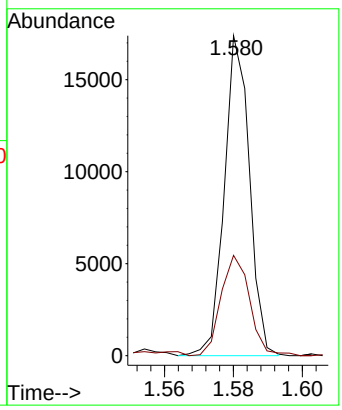


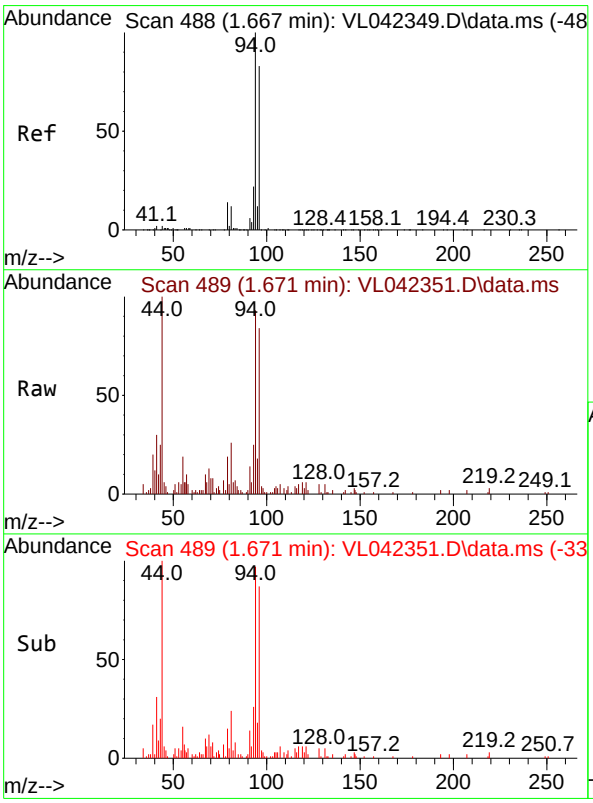
#5
Vinyl Chloride
Concen: 0.932 ppbv
RT: 1.580 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 62 Resp: 8807

Ion	Ratio	Lower	Upper
62	100		
64	30.5	25.4	38.0

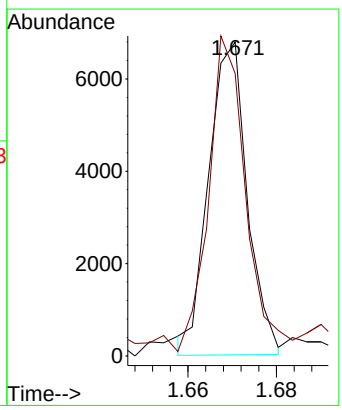


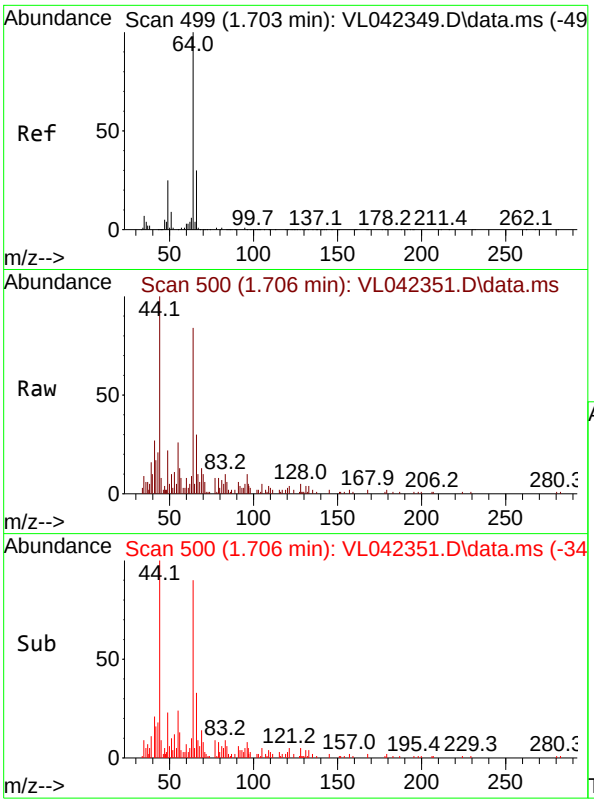


#6
Bromomethane
Concen: 1.001 ppbv
RT: 1.671 min Scan# 489
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 94 Resp: 4099

Ion	Ratio	Lower	Upper
94	100		
96	91.0	66.2	99.2



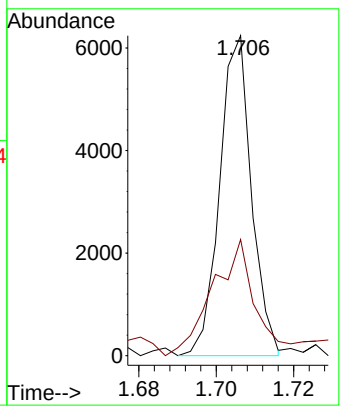


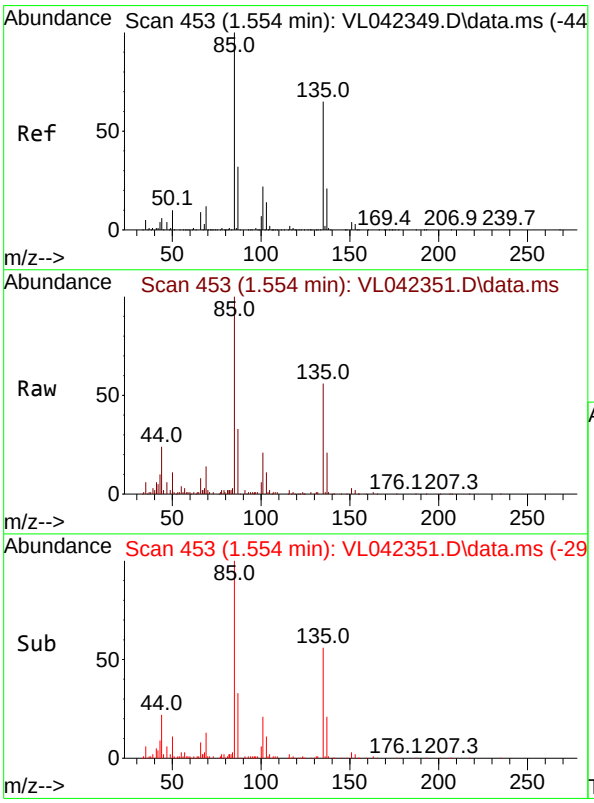
#7
Chloroethane
Concen: 1.041 ppbv
RT: 1.706 min Scan# 5
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 64 Resp: 3559

Ion	Ratio	Lower	Upper
64	100		
66	36.3	24.6	37.0

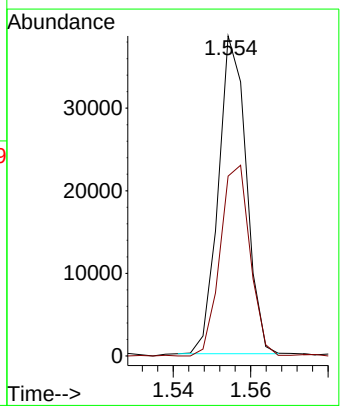


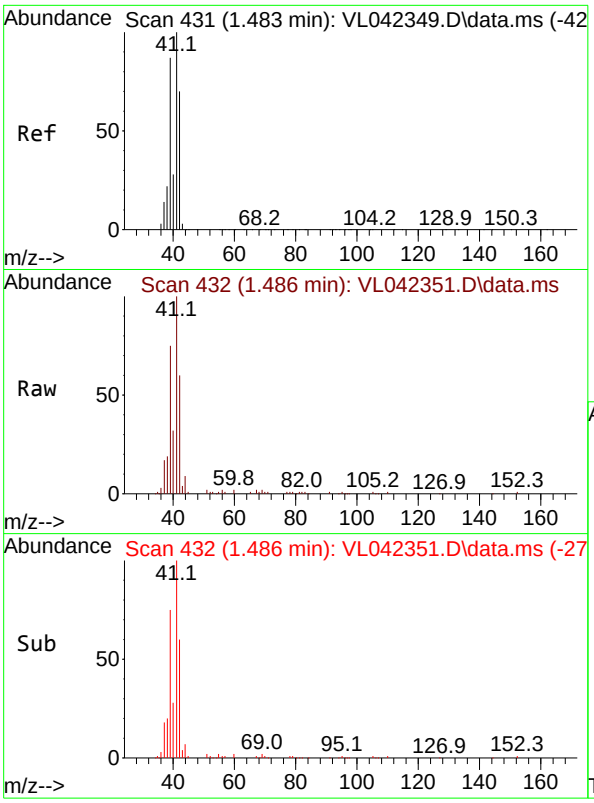


#8
Dichlorotetrafluoroethane
Concen: 1.022 ppbv
RT: 1.554 min Scan# 453
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 85 Resp: 19251

Ion	Ratio	Lower	Upper
85	100		
135	65.2	52.2	78.2



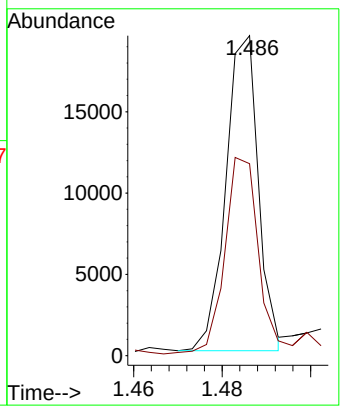


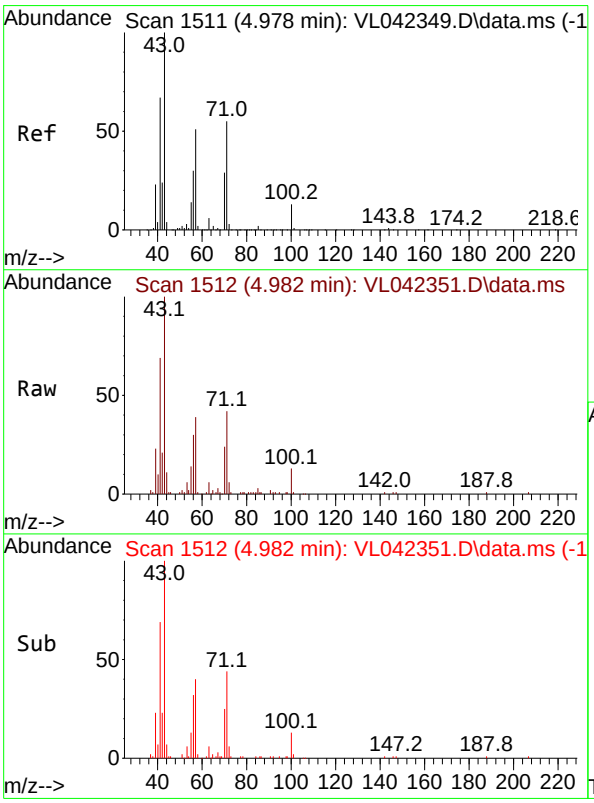
#9
Propene
Concen: 1.040 ppbv
RT: 1.486 min Scan# 4
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 41 Resp: 9892

Ion	Ratio	Lower	Upper
41	100		
42	77.2	56.2	84.4

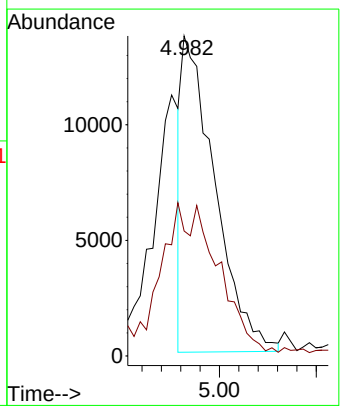


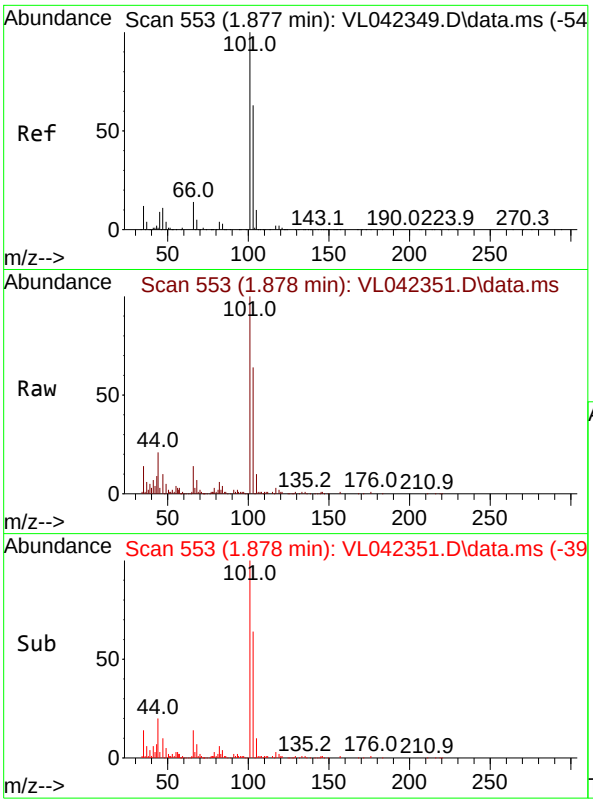


#10
Heptane
Concen: 0.633 ppbv
RT: 4.982 min Scan# 1512
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 43 Resp: 16193

Ion	Ratio	Lower	Upper
43	100		
57	84.7	39.9	59.9#



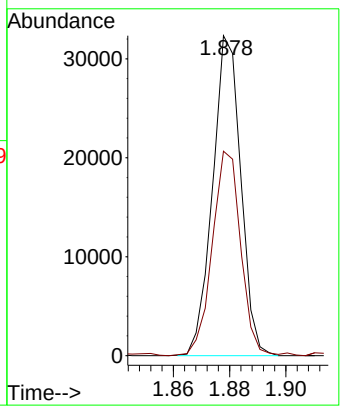


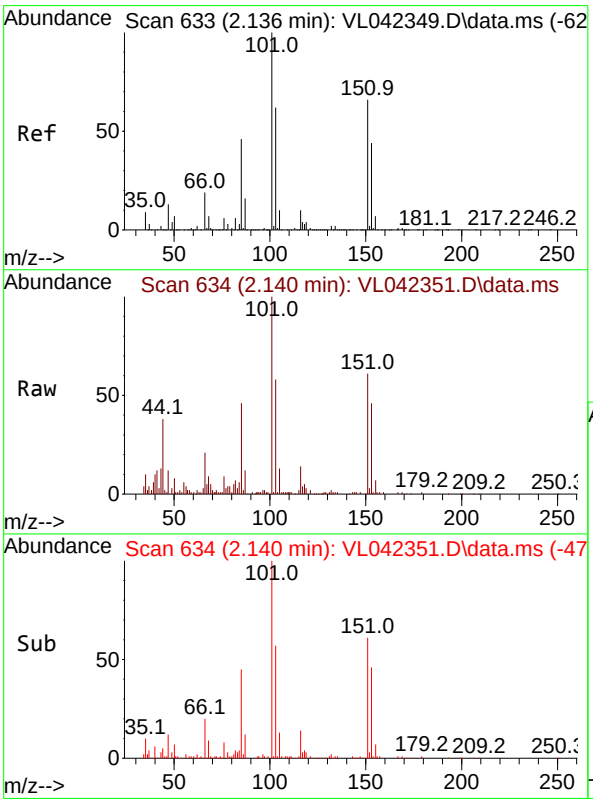
#11
Trichlorofluoromethane
Concen: 1.075 ppbv
RT: 1.878 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion:101 Resp: 22428

Ion	Ratio	Lower	Upper
101	100		
103	63.6	50.1	75.1

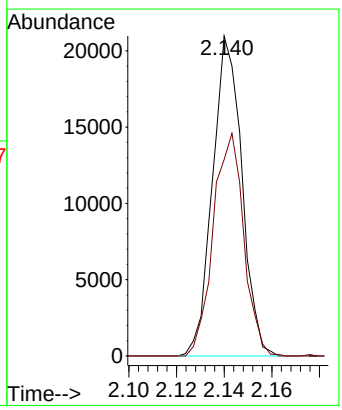


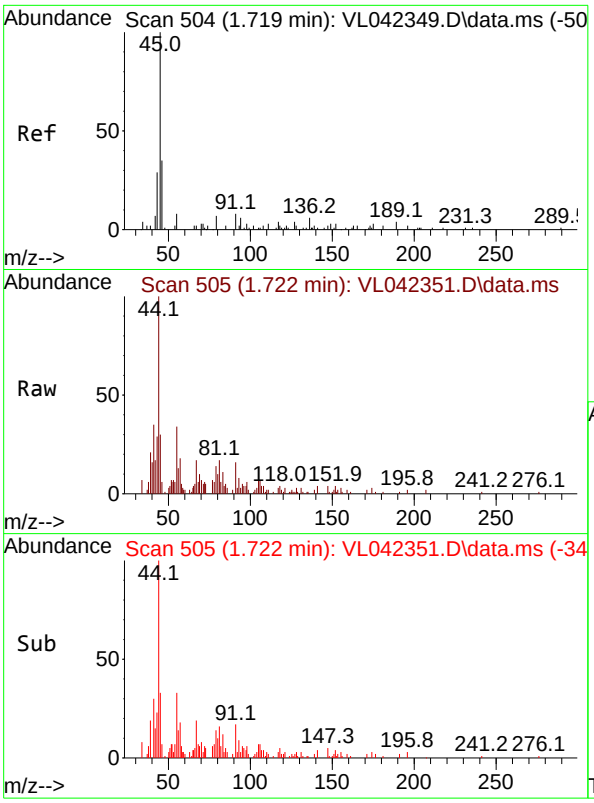


#12
1,1,2-Trichlorotrifluoroethane
Concen: 1.047 ppbv
RT: 2.140 min Scan# 634
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion:101 Resp: 17865

Ion	Ratio	Lower	Upper
101	100		
151	72.6	57.0	85.6



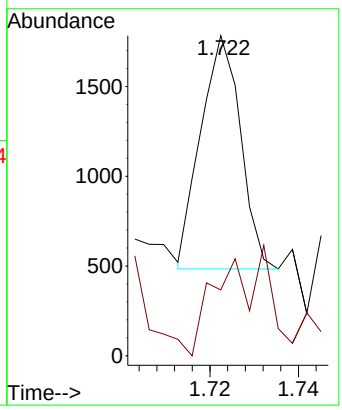


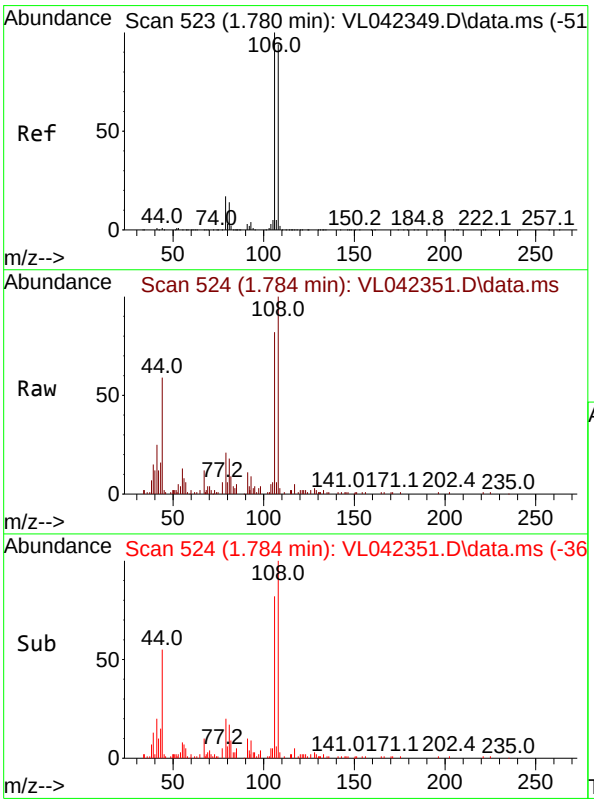
#13
Ethanol
Concen: 1.042 ppbv
RT: 1.722 min Scan# 5
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 45 Resp: 810

Ion	Ratio	Lower	Upper
45	100		
46	95.8	21.9	87.7#

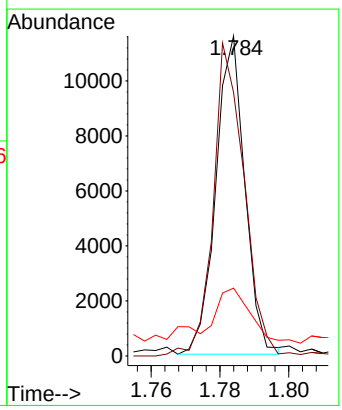


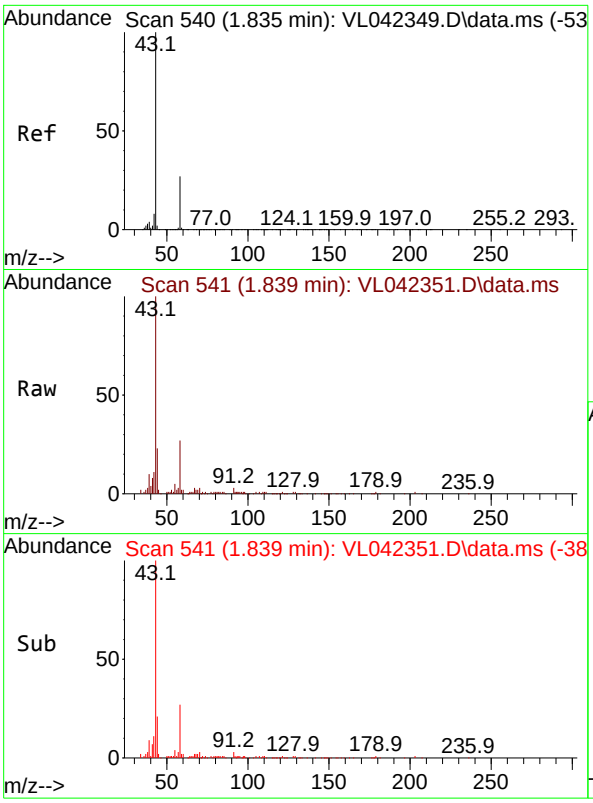


#14
Bromoethene
Concen: 1.052 ppbv
RT: 1.784 min Scan# 524
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion:108 Resp: 6766

Ion	Ratio	Lower	Upper
108	100		
106	104.7	85.9	128.9
79	45.4	13.9	20.9#



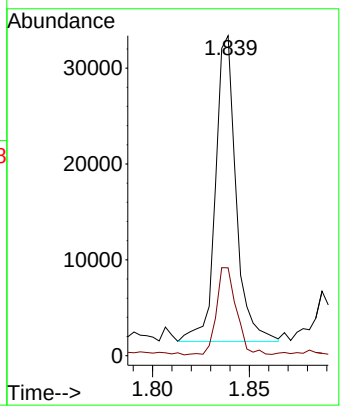


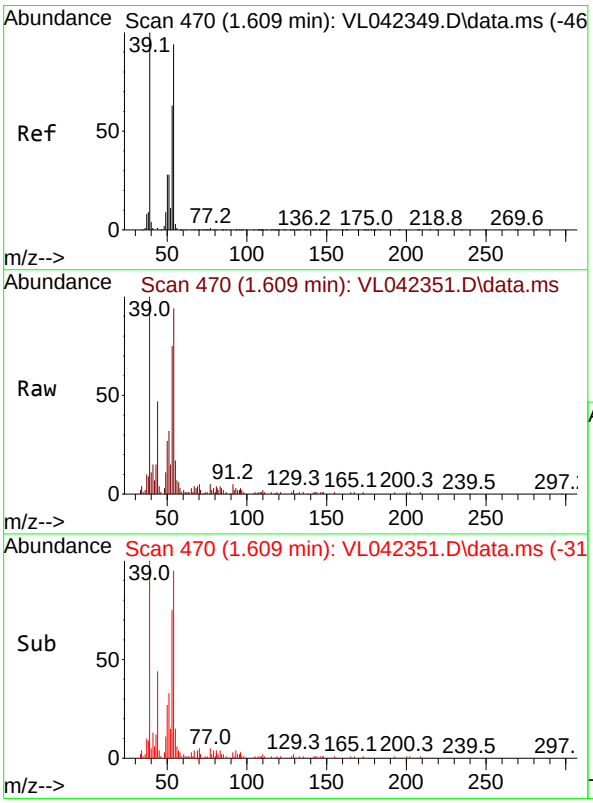
#15
Acetone
Concen: 1.158 ppbv
RT: 1.839 min Scan# 54
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 43 Resp: 23537

Ion	Ratio	Lower	Upper
43	100		
58	29.4	22.4	33.6

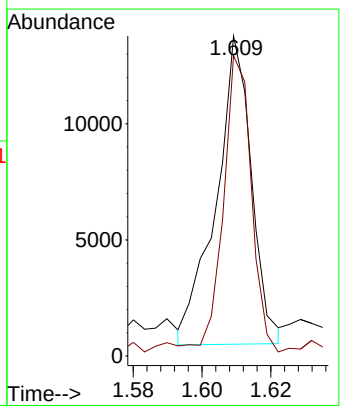


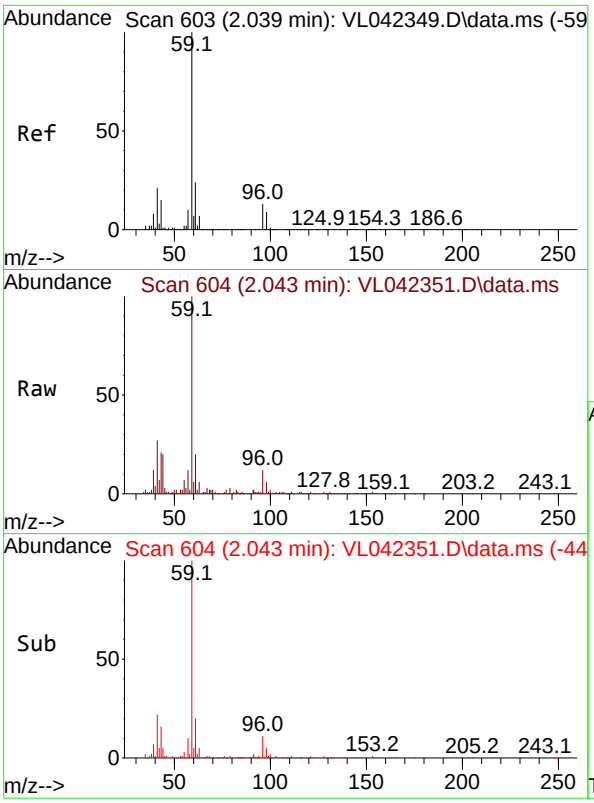


#16
1,3-Butadiene
Concen: 0.995 ppbv
RT: 1.609 min Scan# 470
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 39 Resp: 9495

Ion	Ratio	Lower	Upper
39	100		
54	77.6	64.9	97.3



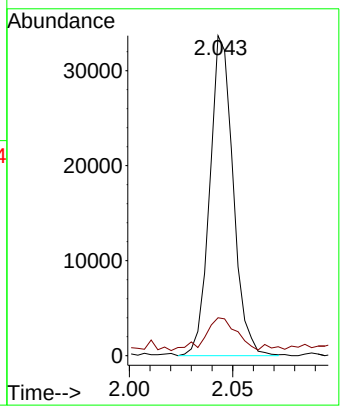


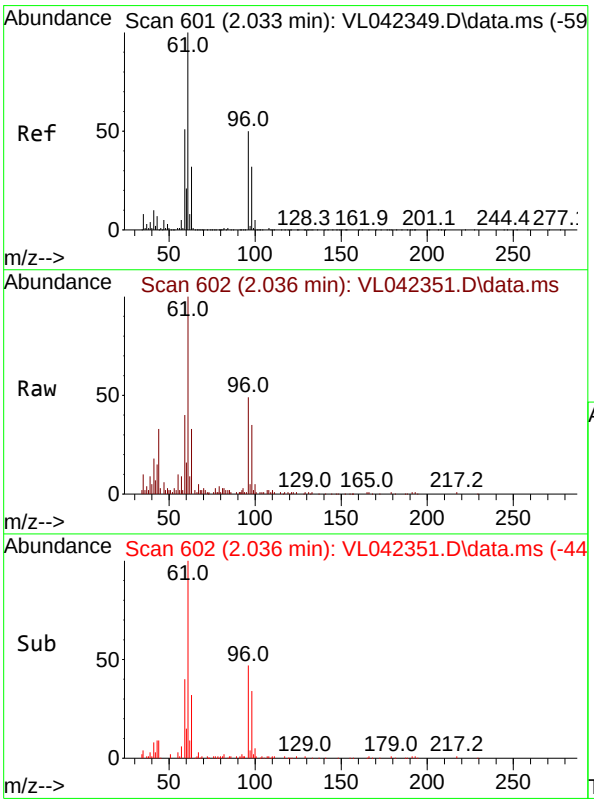
#17
tert-Butyl alcohol
Concen: 1.051 ppbv
RT: 2.043 min Scan# 6
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 59 Resp: 26477

Ion	Ratio	Lower	Upper
59	100		
57	14.6	8.7	13.1#

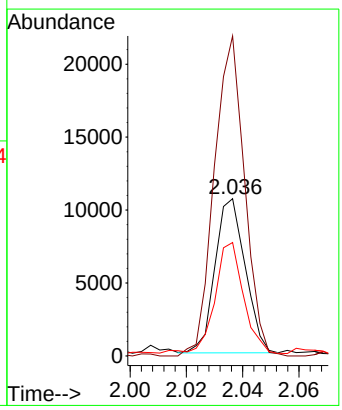


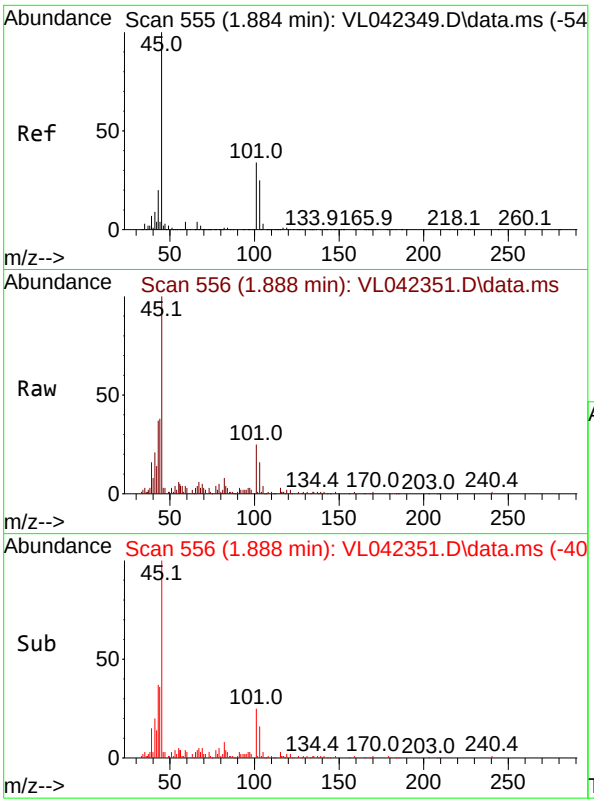


#18
1,1-Dichloroethene
Concen: 0.962 ppbv
RT: 2.036 min Scan# 602
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 96 Resp: 7890

Ion	Ratio	Lower	Upper
96	100		
61	207.8	160.2	240.2
98	71.9	51.0	76.4



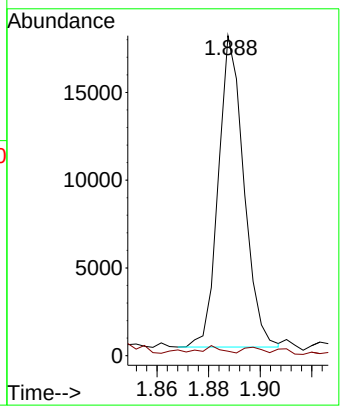


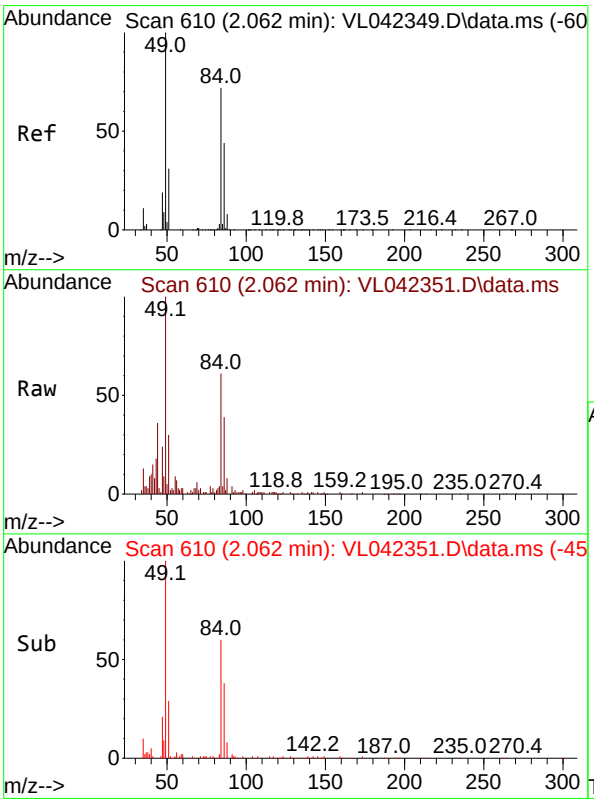
#19
Isopropyl Alcohol
Concen: 1.078 ppbv
RT: 1.888 min Scan# 5
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 45 Resp: 12175

Ion	Ratio	Lower	Upper
45	100		
58	3.8	34.5	51.7#

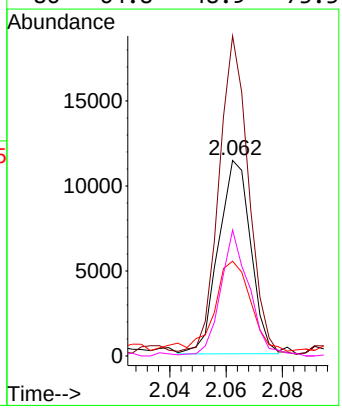


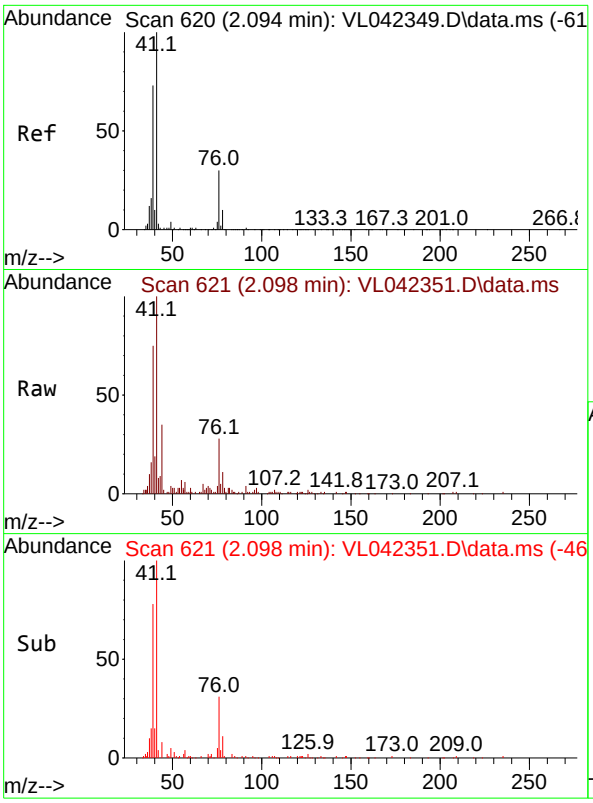


#20
Methylene Chloride
Concen: 1.136 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 84 Resp: 9046

Ion	Ratio	Lower	Upper
84	100		
49	164.4	111.6	167.4
51	44.4	35.1	52.7
86	64.8	48.9	73.3



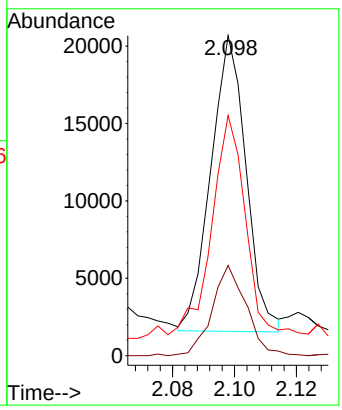


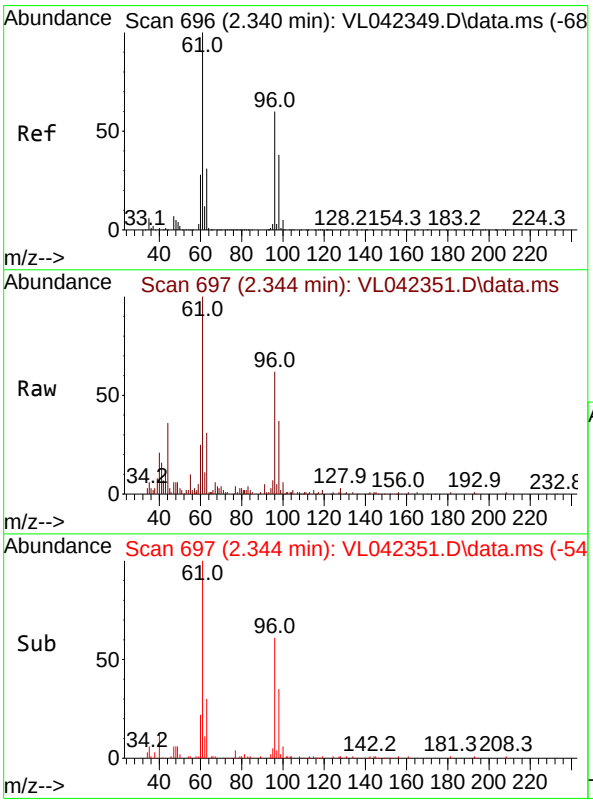
#21
Allyl Chloride
Concen: 1.073 ppbv
RT: 2.098 min Scan# 6
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 41 Resp: 15057

Ion	Ratio	Lower	Upper
41	100		
76	29.8	24.8	37.2
39	86.1	60.6	90.8

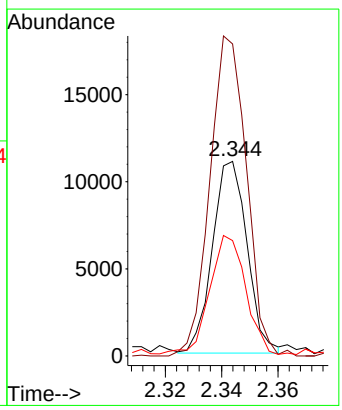


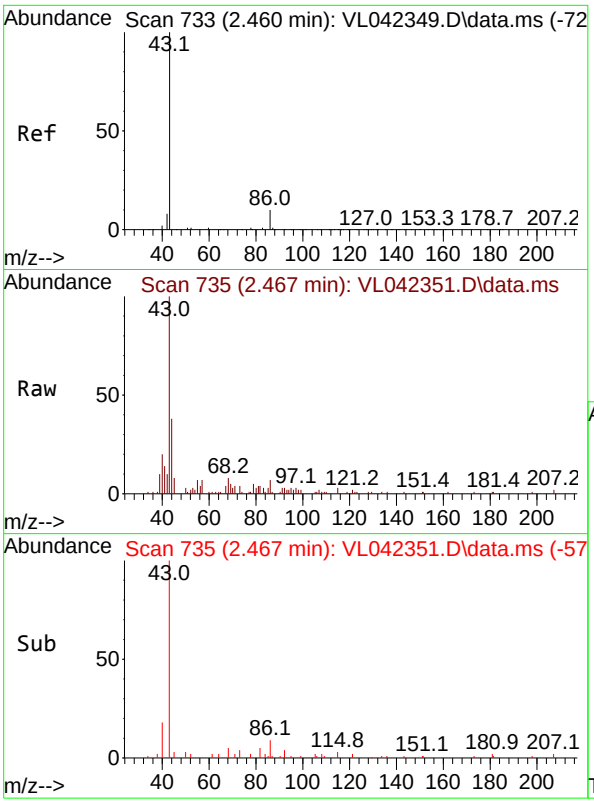


#22
trans-1,2-Dichloroethene
Concen: 1.038 ppbv
RT: 2.344 min Scan# 697
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 96 Resp: 9421

Ion	Ratio	Lower	Upper
96	100		
61	161.7	133.7	200.5
98	59.8	50.3	75.5



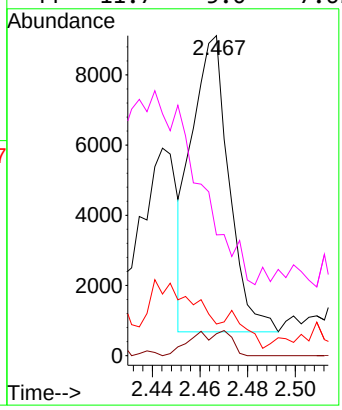


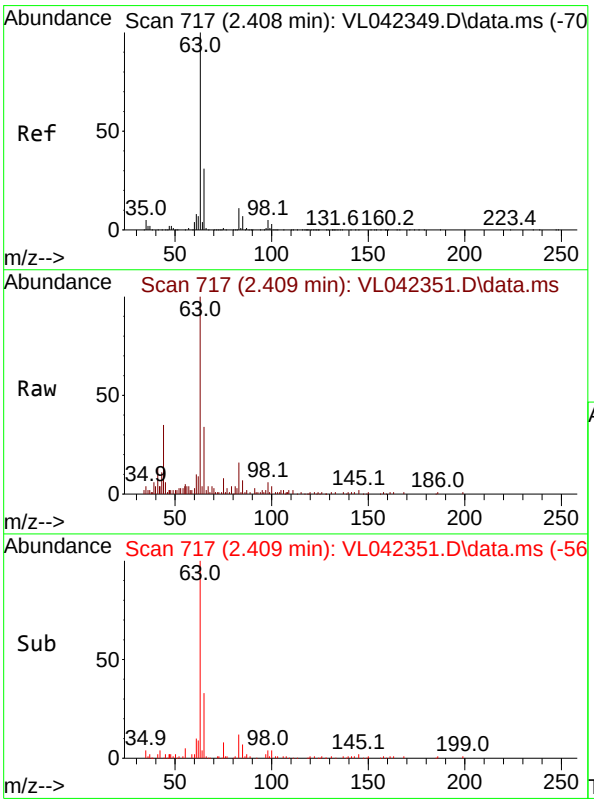
#23
Vinyl Acetate
Concen: 1.122 ppbv
RT: 2.467 min Scan# 7
Delta R.T. 0.007 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 43 Resp: 9234

Ion	Ratio	Lower	Upper
43	100		
86	7.4	6.5	9.7
42	4.6	7.8	11.8#
44	11.7	5.0	7.6#

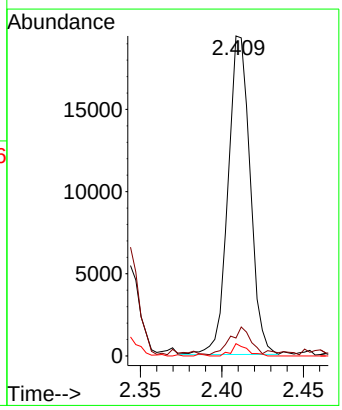


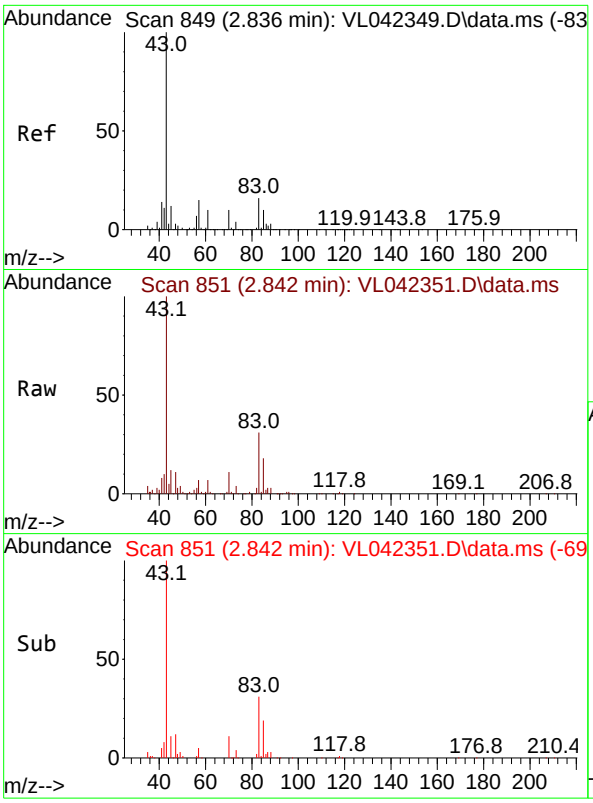


#24
1,1-Dichloroethane
Concen: 1.058 ppbv
RT: 2.409 min Scan# 717
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 63 Resp: 18236

Ion	Ratio	Lower	Upper
63	100		
98	4.7	2.3	6.8
100	3.9	1.6	4.8



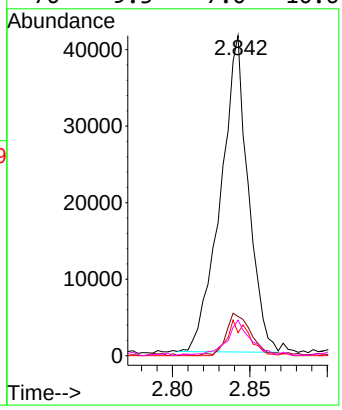


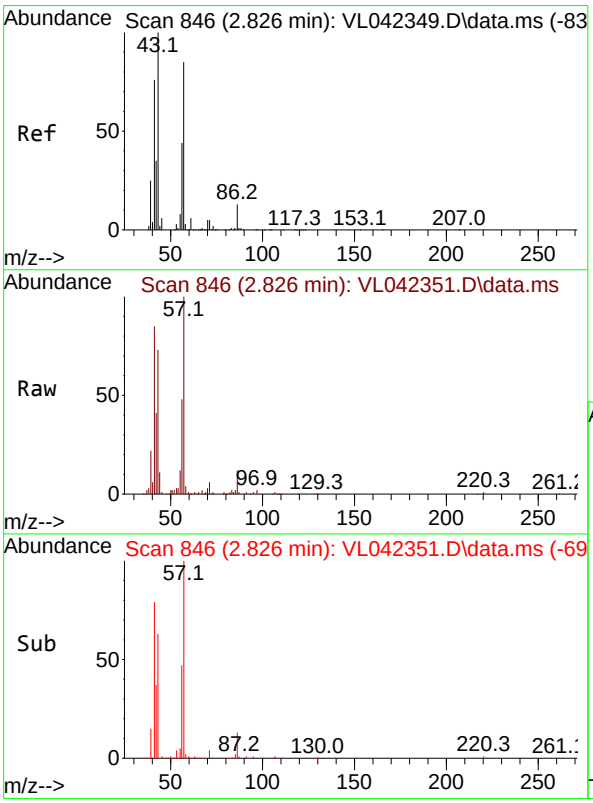
#25
Ethyl Acetate
Concen: 1.027 ppbv
RT: 2.842 min Scan# 8
Delta R.T. 0.007 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 43 Resp: 51494

Ion	Ratio	Lower	Upper
43	100		
45	13.1	8.3	12.5#
61	9.0	7.3	10.9
70	9.3	7.0	10.6

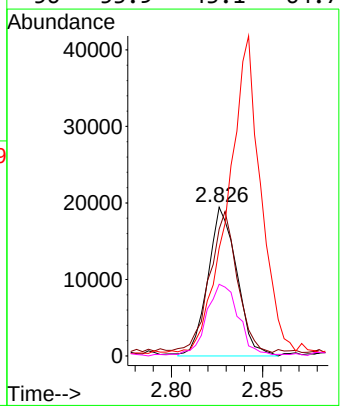


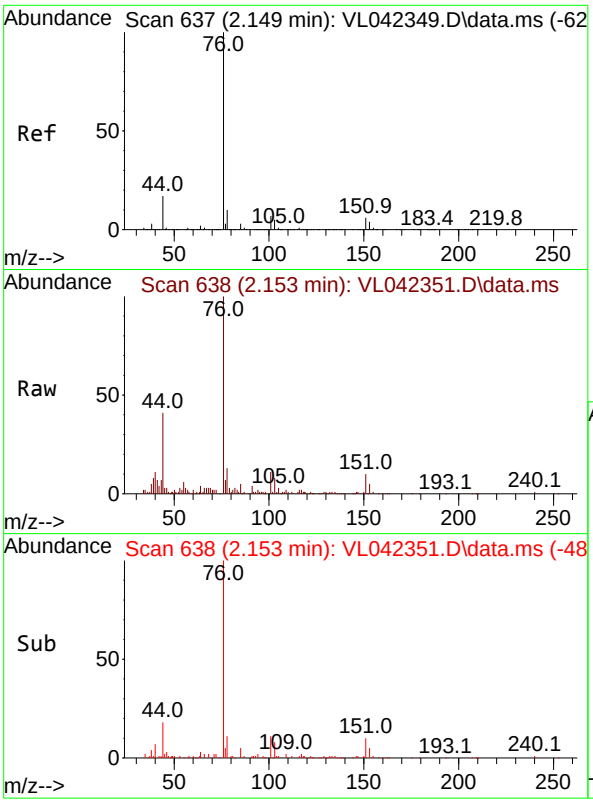


#26
Hexane
Concen: 1.053 ppbv
RT: 2.826 min Scan# 846
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 57 Resp: 21350

Ion	Ratio	Lower	Upper
57	100		
41	95.3	77.9	116.9
43	247.5	208.4	312.6
56	53.9	43.1	64.7



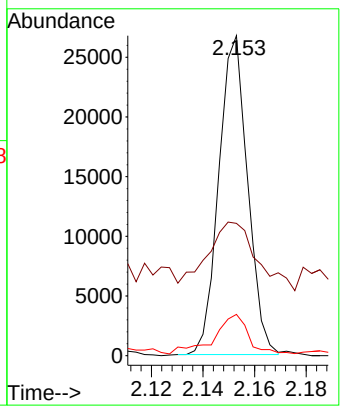


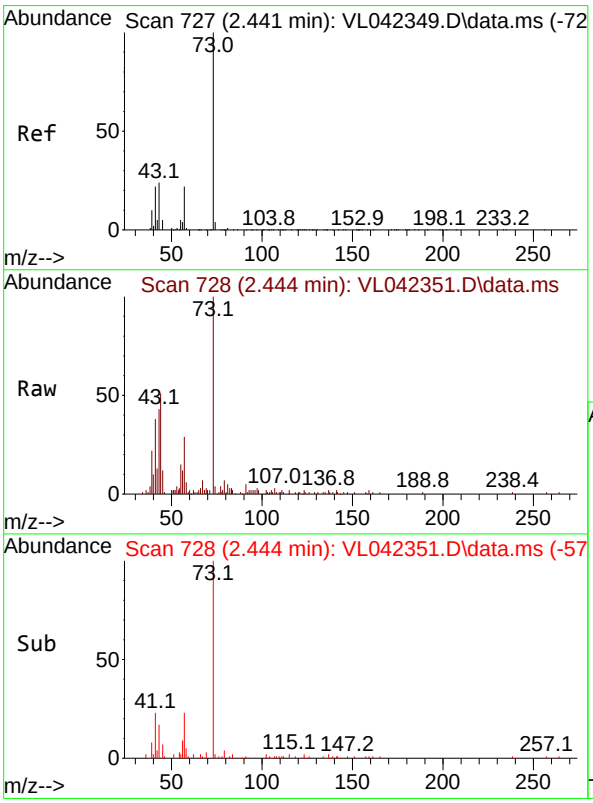
#27
Carbon Disulfide
Concen: 0.955 ppbv
RT: 2.153 min Scan# 6
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 76 Resp: 20739

Ion	Ratio	Lower	Upper
76	100		
44	93.1	15.5	23.3#
78	19.8	9.3	13.9#

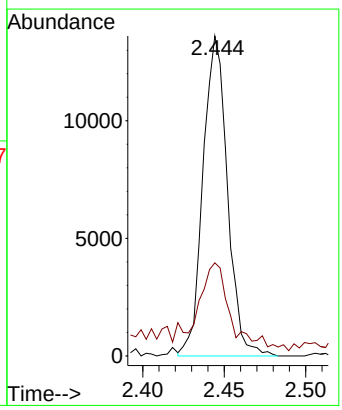


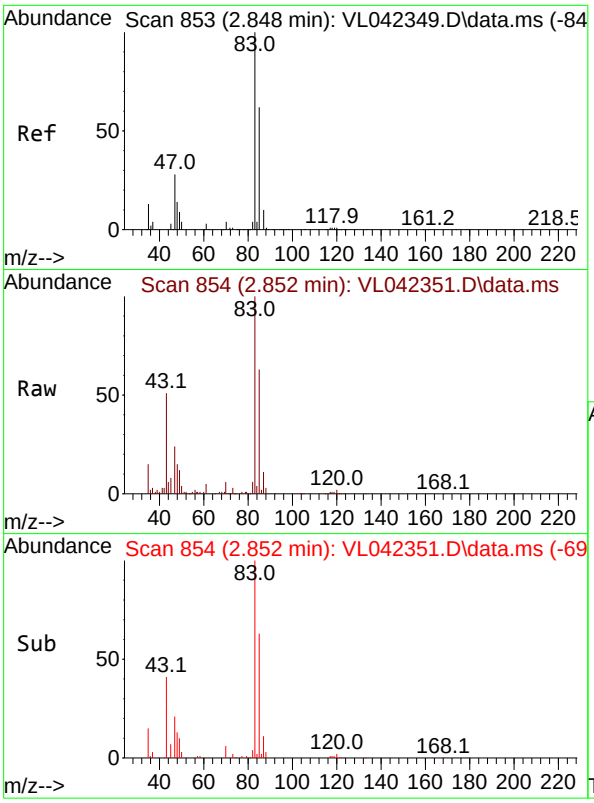


#28
Methyl tert-Butyl Ether
Concen: 1.066 ppbv
RT: 2.444 min Scan# 728
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 73 Resp: 14164

Ion	Ratio	Lower	Upper
73	100		
57	34.2	21.3	31.9#



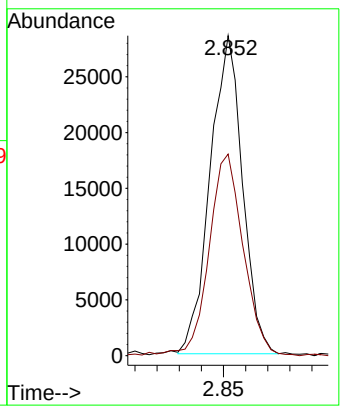


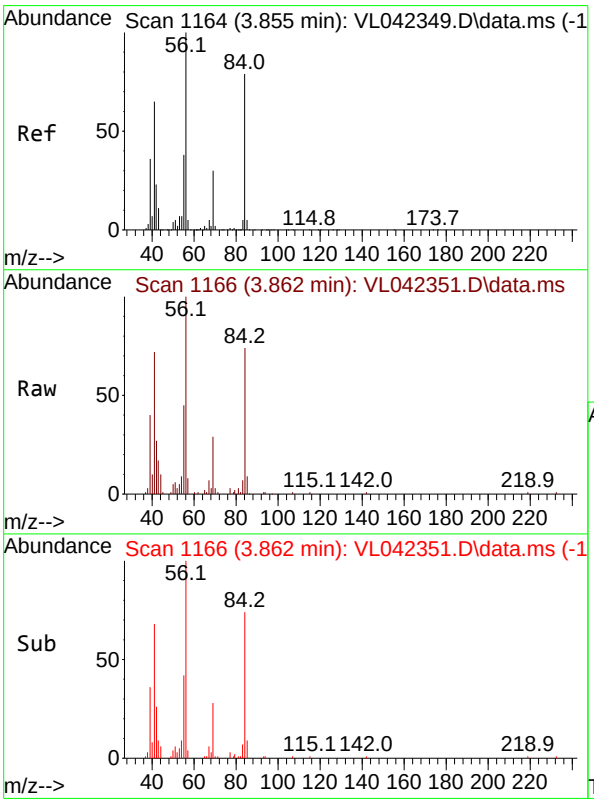
#29
Chloroform
Concen: 1.011 ppbv
RT: 2.852 min Scan# 8
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 83 Resp: 28973

Ion	Ratio	Lower	Upper
83	100		
85	62.6	50.0	75.0

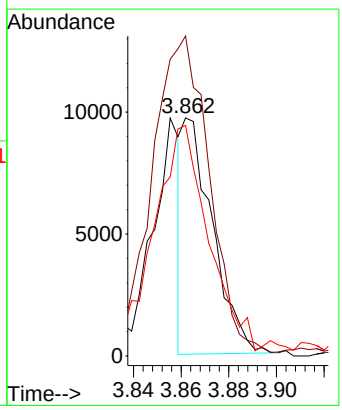


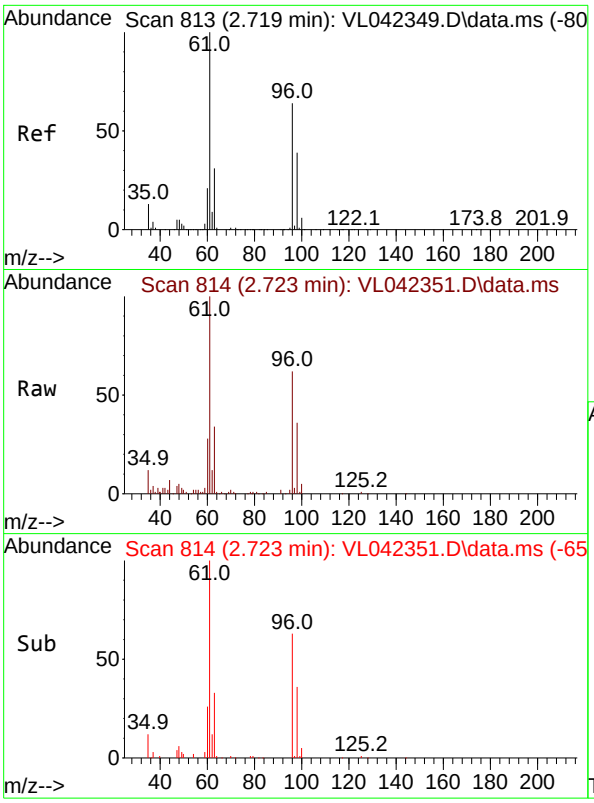


#30
Cyclohexane
Concen: 0.516 ppbv
RT: 3.862 min Scan# 1166
Delta R.T. 0.007 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 84 Resp: 8430

Ion	Ratio	Lower	Upper
84	100		
56	263.5	101.0	151.4#
41	167.0	67.4	101.0#



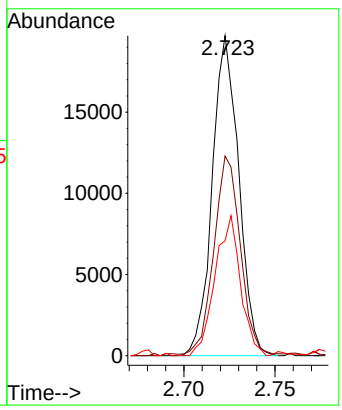


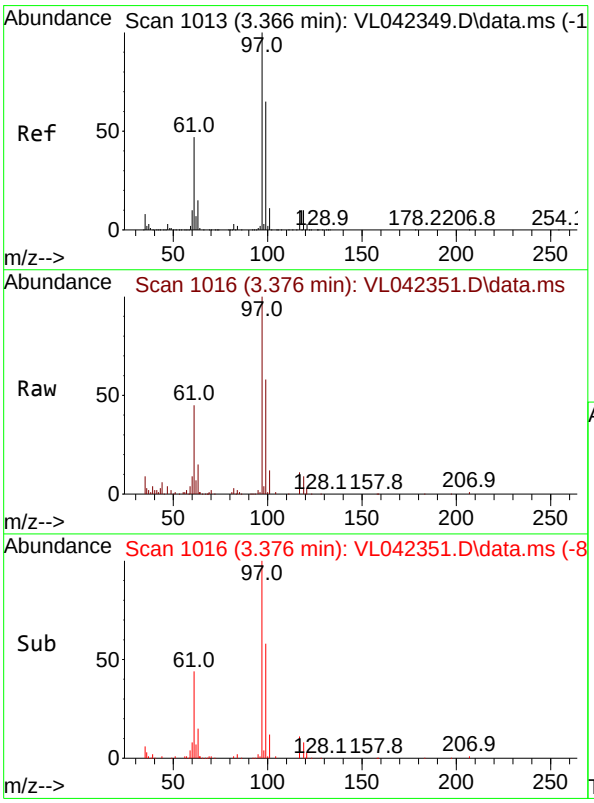
#31
cis-1,2-Dichloroethene
Concen: 1.032 ppbv
RT: 2.723 min Scan# 8
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 61 Resp: 19904

Ion	Ratio	Lower	Upper
61	100		
96	61.9	50.8	76.2
98	35.9	30.9	46.3

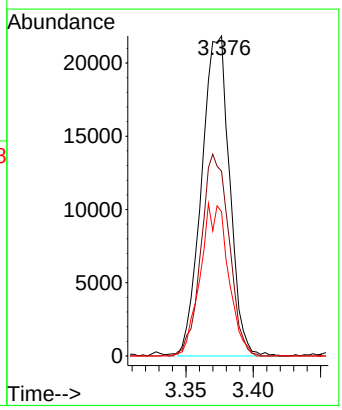


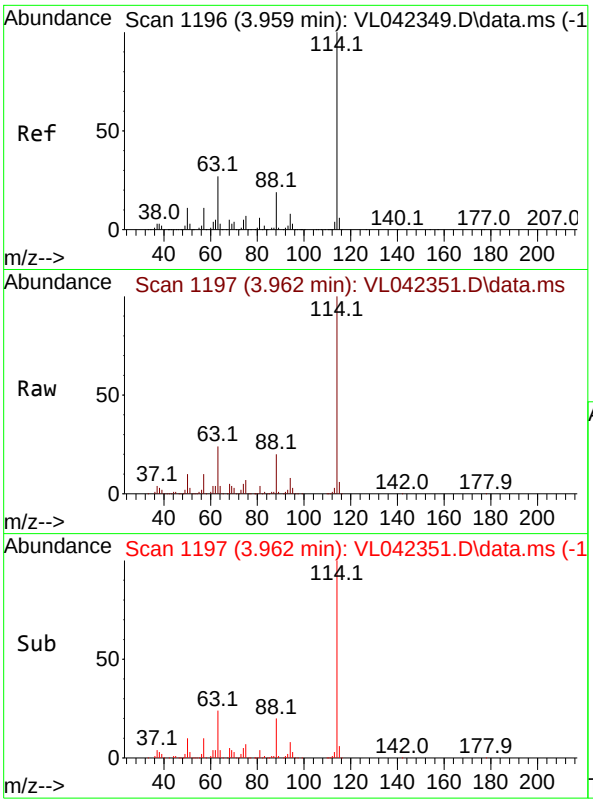


#32
1,1,1-Trichloroethane
Concen: 1.030 ppbv
RT: 3.376 min Scan# 1016
Delta R.T. 0.010 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 97 Resp: 31653

Ion	Ratio	Lower	Upper
97	100		
99	62.4	51.0	76.4
61	47.6	38.8	58.2



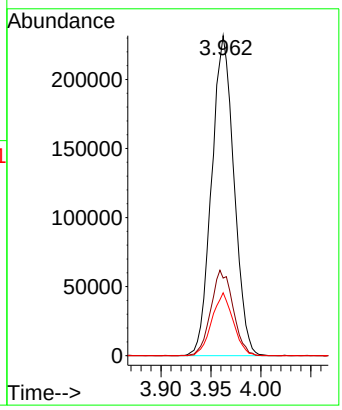


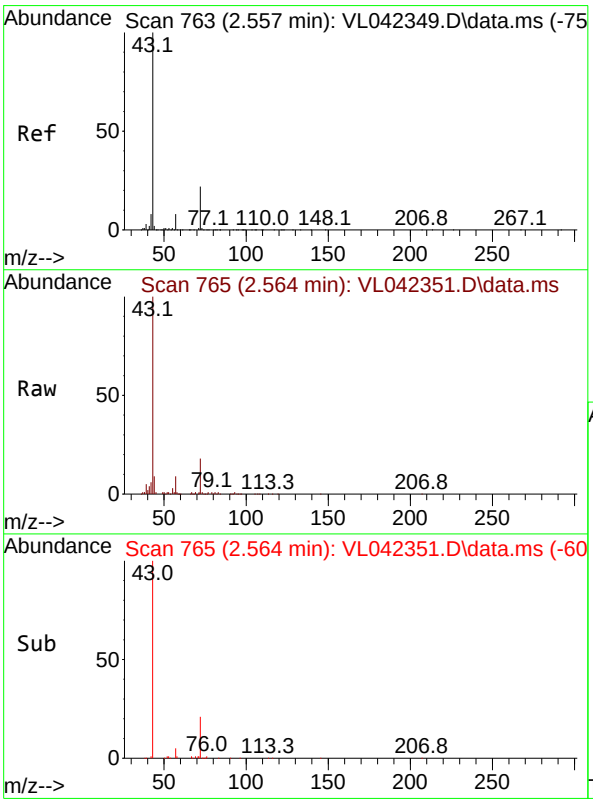
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.962 min Scan# 11
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion:114 Resp: 359907

Ion	Ratio	Lower	Upper
114	100		
63	26.7	21.8	32.6
88	18.8	15.5	23.3

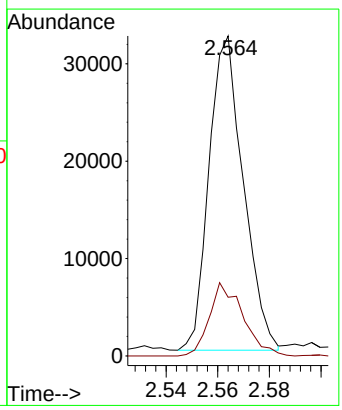


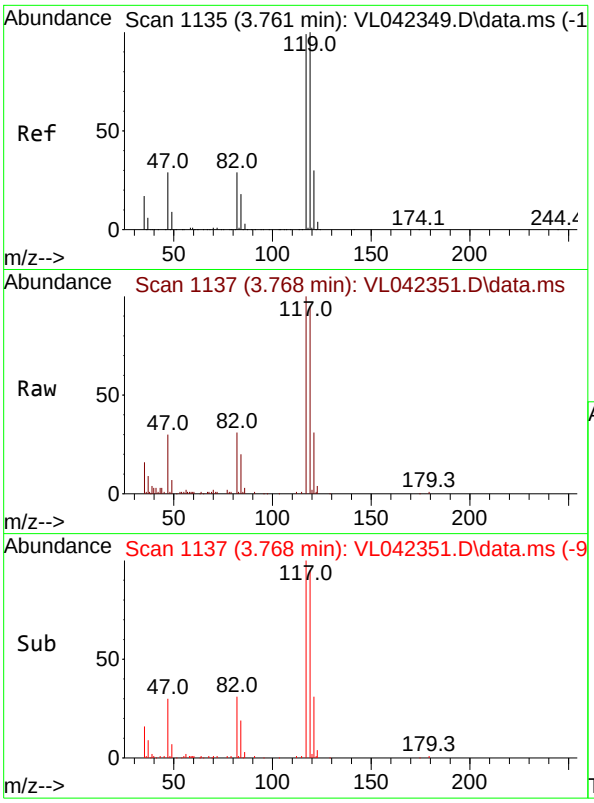


#34
2-Butanone
Concen: 1.045 ppbv
RT: 2.564 min Scan# 765
Delta R.T. 0.007 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 43 Resp: 29735

Ion	Ratio	Lower	Upper
43	100		
72	23.1	18.2	27.2



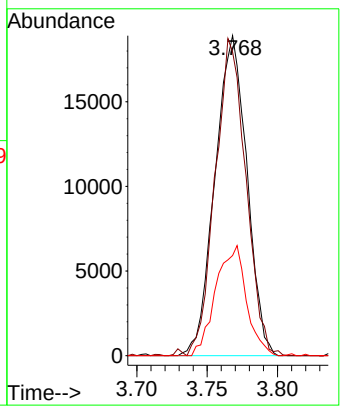


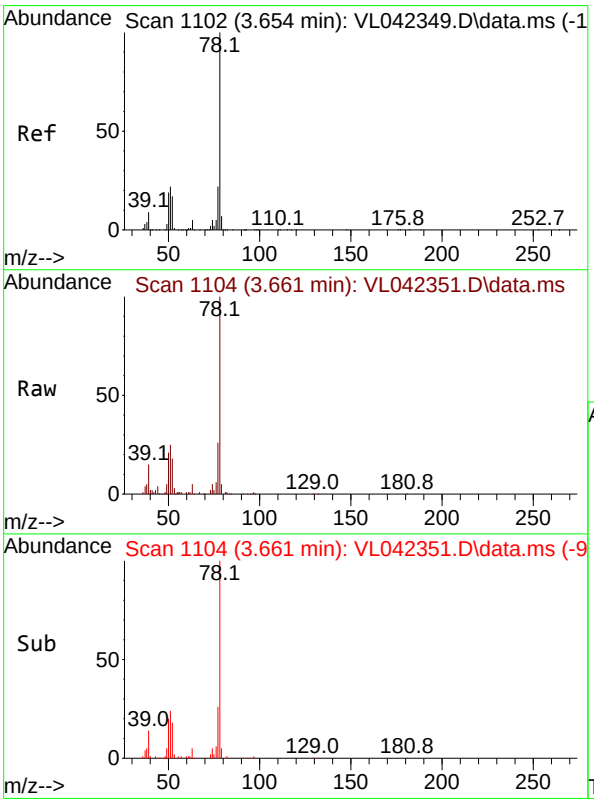
#35
Carbon Tetrachloride
Concen: 0.917 ppbv
RT: 3.768 min Scan# 11
Delta R.T. 0.007 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion:117 Resp: 29875

Ion	Ratio	Lower	Upper
117	100		
119	93.3	80.5	120.7
121	31.3	24.2	36.2

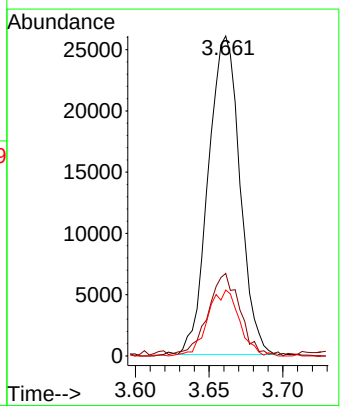


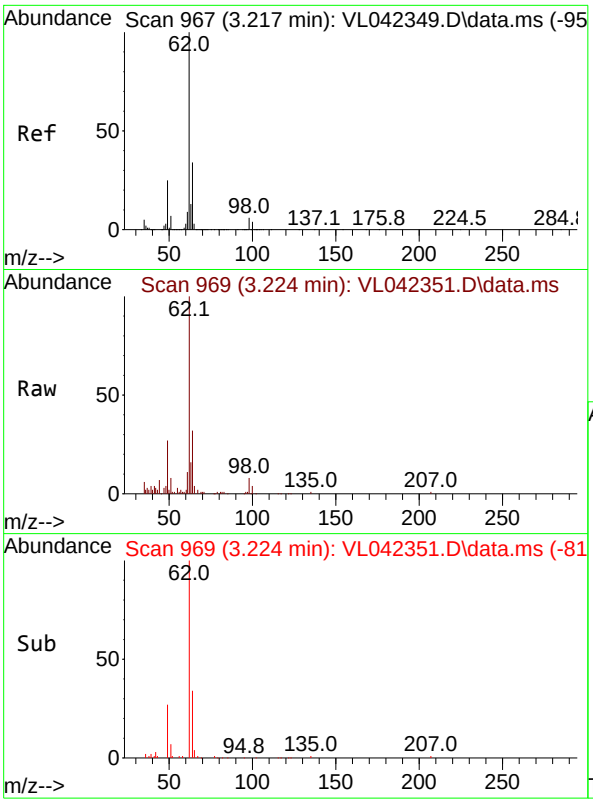


#36
Benzene
Concen: 0.997 ppbv
RT: 3.661 min Scan# 1104
Delta R.T. 0.007 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 78 Resp: 38707

Ion	Ratio	Lower	Upper
78	100		
77	24.7	17.4	26.0
50	20.7	15.5	23.3



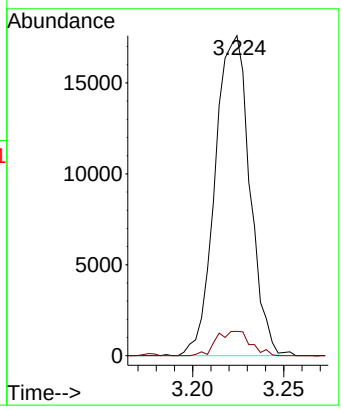


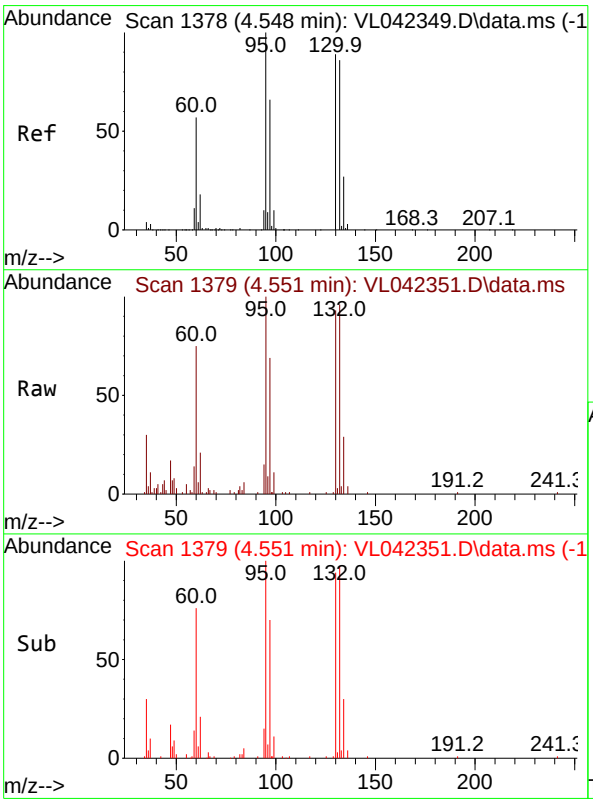
#37
1,2-Dichloroethane
Concen: 0.999 ppbv
RT: 3.224 min Scan# 9
Delta R.T. 0.007 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 62 Resp: 23284

Ion	Ratio	Lower	Upper
62	100		
98	7.5	5.1	7.7

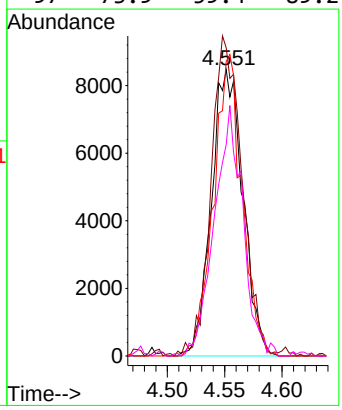


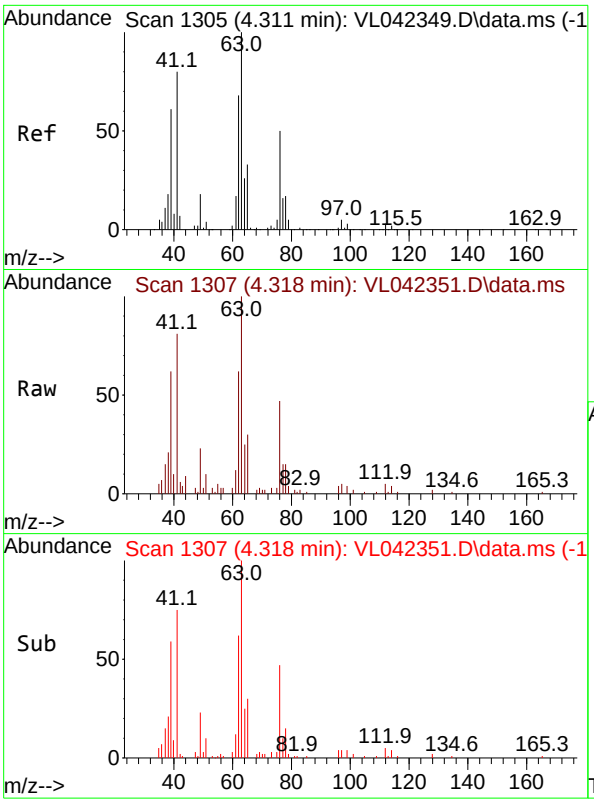


#38
Trichloroethene
Concen: 0.947 ppbv
RT: 4.551 min Scan# 1379
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion:130 Resp: 16119

Ion	Ratio	Lower	Upper
130	100		
95	106.6	89.8	134.6
132	102.9	77.7	116.5
97	73.9	59.4	89.2



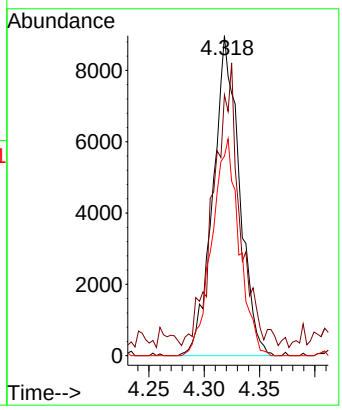


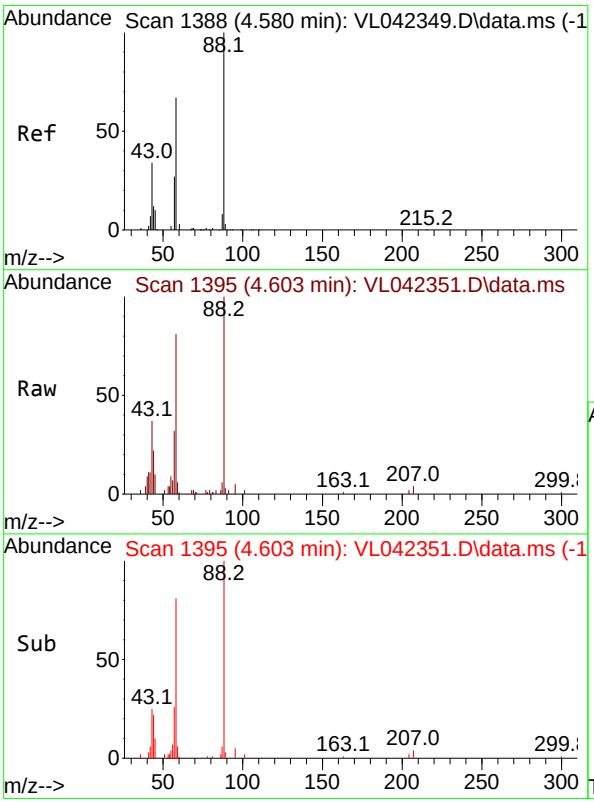
#39
1,2-Dichloropropane
Concen: 1.027 ppbv
RT: 4.318 min Scan# 1
Delta R.T. 0.007 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 63 Resp: 14866

Ion	Ratio	Lower	Upper
63	100		
41	78.3	64.2	96.2
62	62.3	54.3	81.5

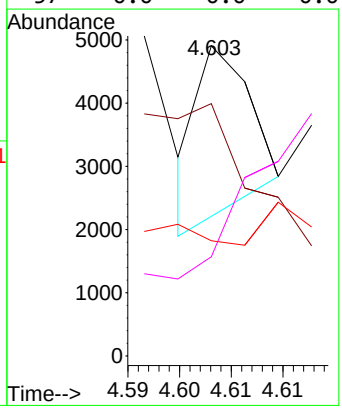


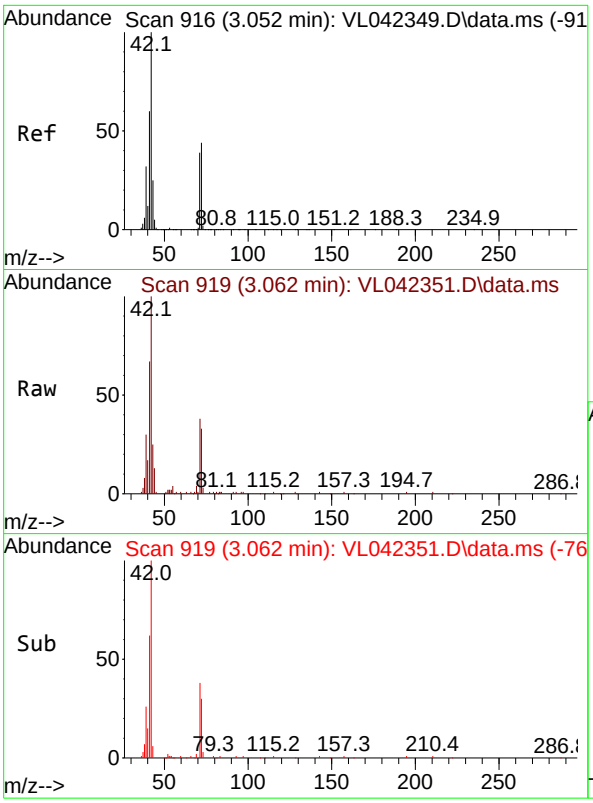


#40
1,4-Dioxane
Concen: 0.123 ppbv
RT: 4.603 min Scan# 1395
Delta R.T. 0.023 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 88 Resp: 967

Ion	Ratio	Lower	Upper
88	100		
58	998.9	61.4	92.0#
43	0.0	23.2	34.8#
57	0.0	0.0	0.0



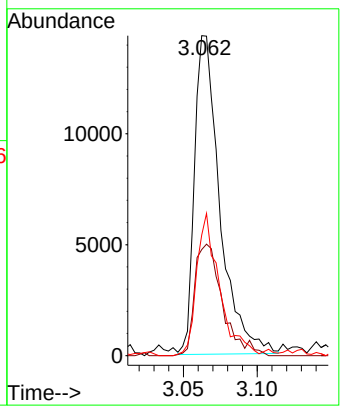


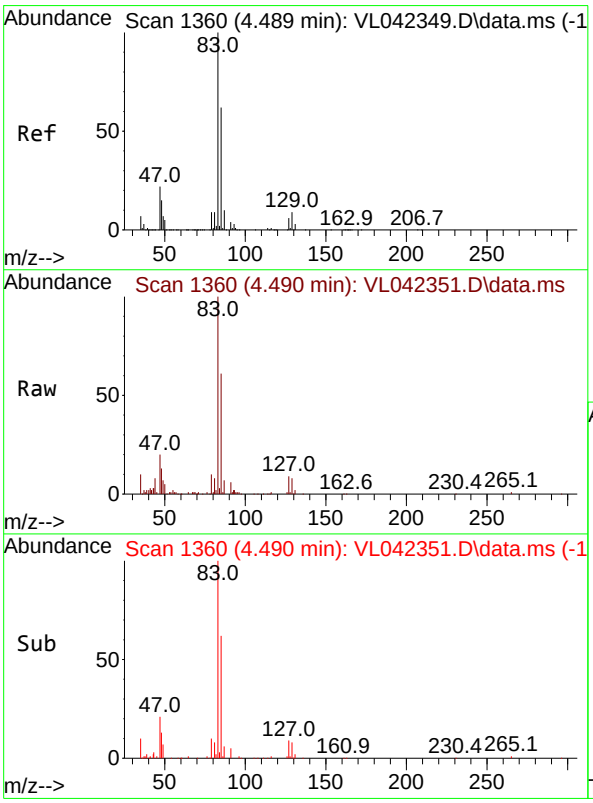
#41
Tetrahydrofuran
Concen: 1.049 ppbv
RT: 3.062 min Scan# 91
Delta R.T. 0.010 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 42 Resp: 17259

Ion	Ratio	Lower	Upper
42	100		
72	38.1	32.3	48.5
71	42.3	31.4	47.2

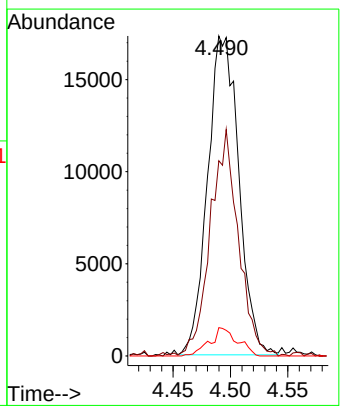


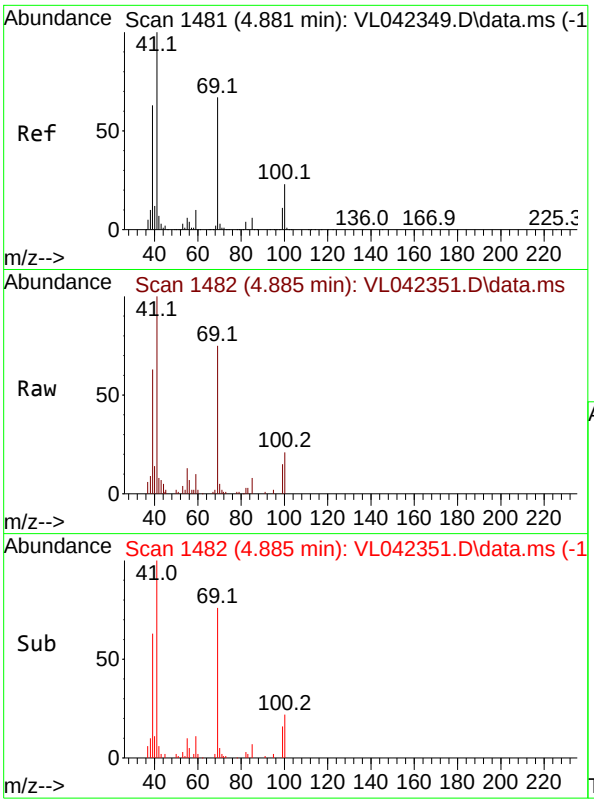


#42
Bromodichloromethane
Concen: 1.009 ppbv
RT: 4.490 min Scan# 1360
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 83 Resp: 32721

Ion	Ratio	Lower	Upper
83	100		
85	61.2	49.7	74.5
127	8.9	5.1	7.7#



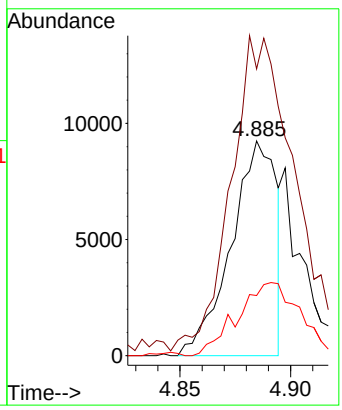


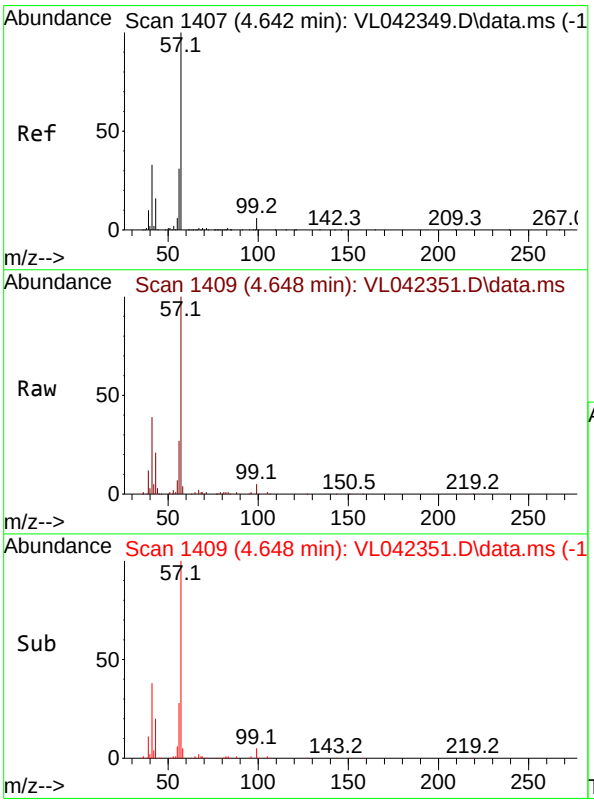
#43
Methyl Methacrylate
Concen: 0.751 ppbv
RT: 4.885 min Scan# 14
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 69 Resp: 13084

Ion	Ratio	Lower	Upper
69	100		
41	213.4	118.6	177.8#
100	0.0	28.2	42.2#

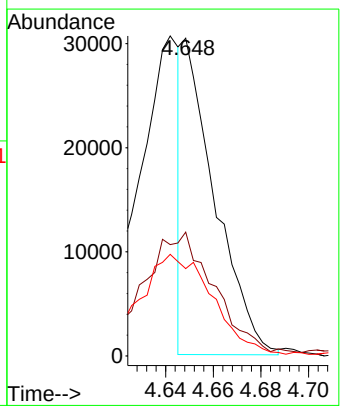


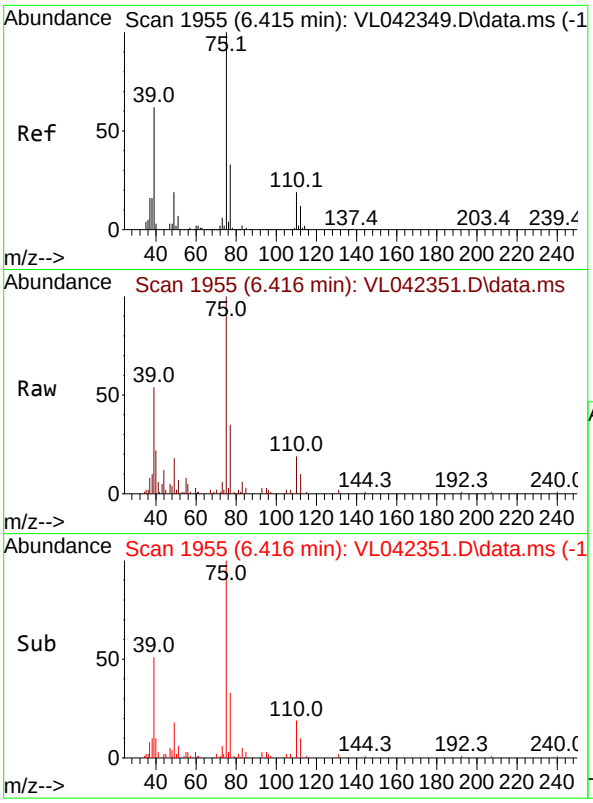


#44
2,2,4-Trimethylpentane
Concen: 0.427 ppbv
RT: 4.648 min Scan# 1409
Delta R.T. 0.007 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 57 Resp: 28653

Ion	Ratio	Lower	Upper
57	100		
41	91.3	27.2	40.8#
56	0.0	25.7	38.5#



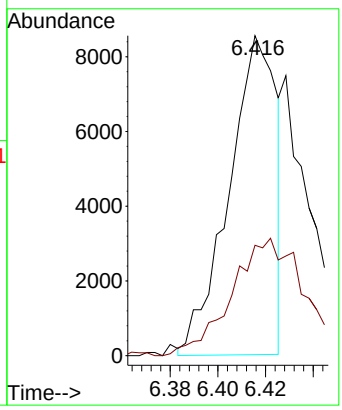


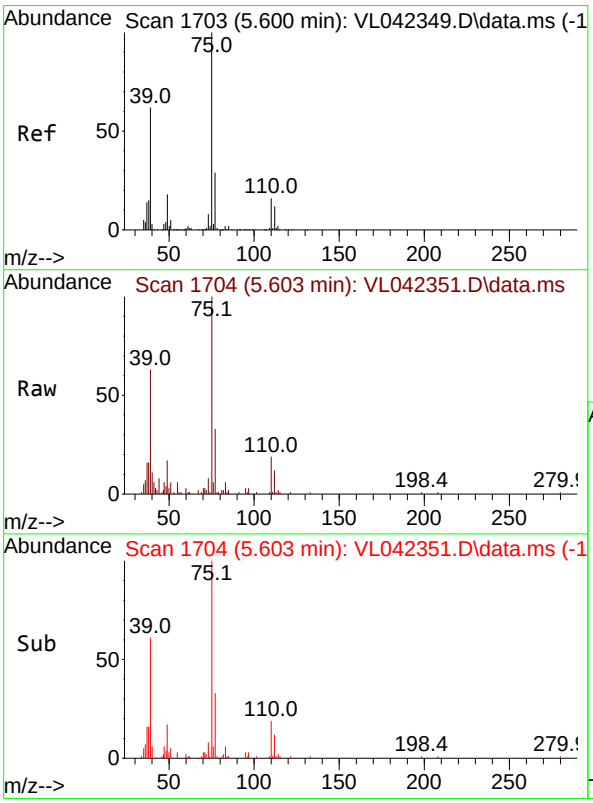
#45
t-1,3-Dichloropropene
Concen: 0.658 ppbv
RT: 6.416 min Scan# 1
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 75 Resp: 11763

Ion	Ratio	Lower	Upper
75	100		
77	34.5	27.0	40.6

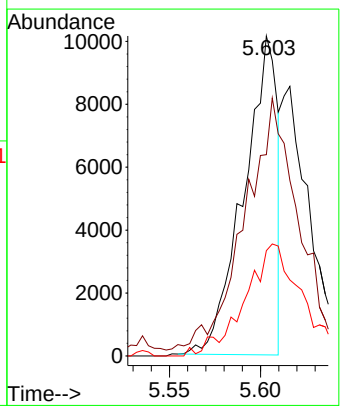


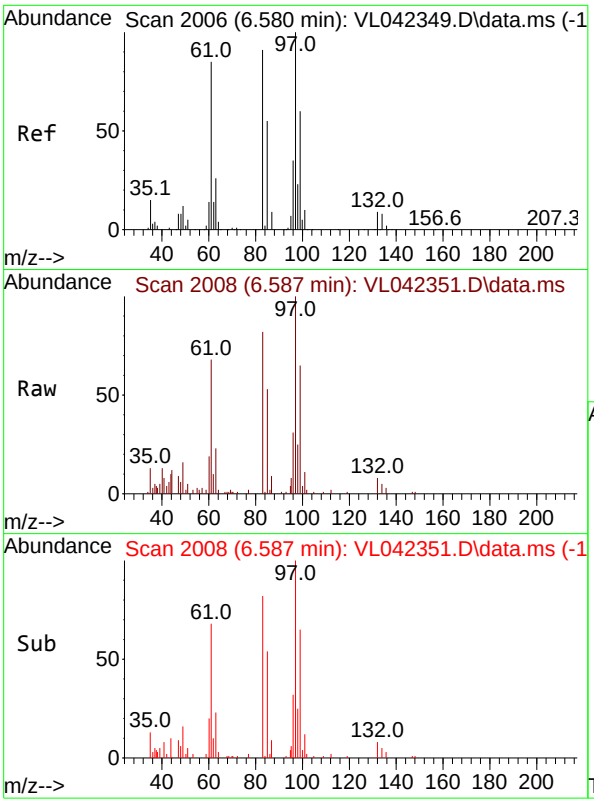


#46
cis-1,3-Dichloropropene
Concen: 0.596 ppbv
RT: 5.603 min Scan# 1704
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 75 Resp: 13028

Ion	Ratio	Lower	Upper
75	100		
39	59.7	50.0	75.0
77	33.1	23.0	34.6



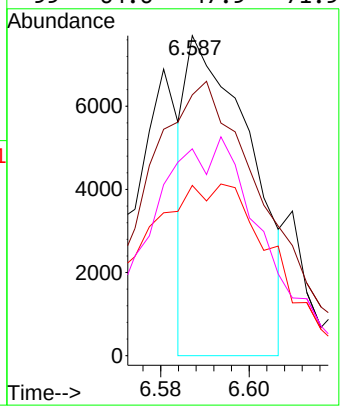


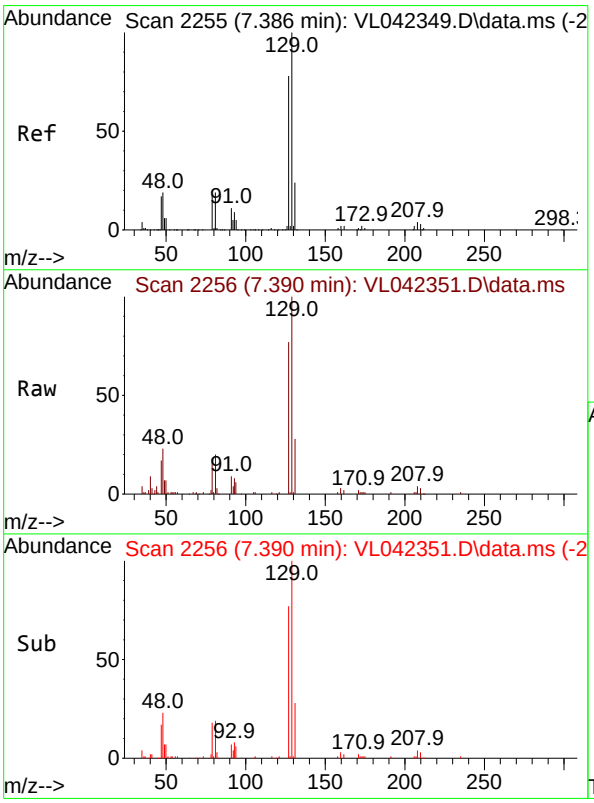
#47
1,1,2-Trichloroethane
Concen: 0.521 ppbv
RT: 6.587 min Scan# 2
Delta R.T. 0.007 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 97 Resp: 7690

Ion	Ratio	Lower	Upper
97	100		
83	67.7	72.8	109.2#
85	31.3	44.2	66.4#
99	64.6	47.9	71.9

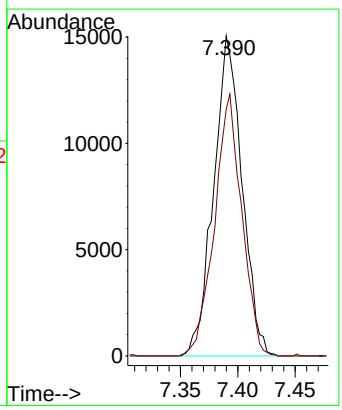


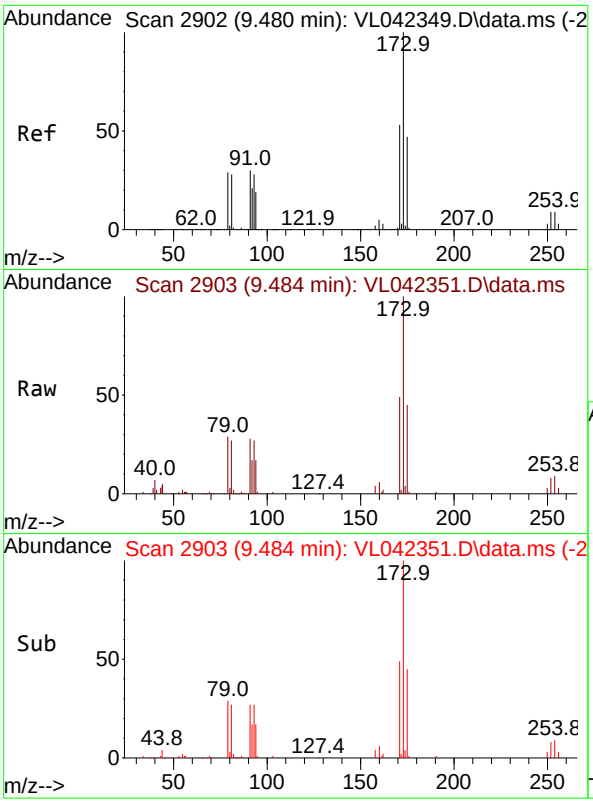


#48
Dibromochloromethane
Concen: 0.997 ppbv
RT: 7.390 min Scan# 2256
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion:129 Resp: 25948

Ion	Ratio	Lower	Upper
129	100		
127	78.4	39.1	117.3



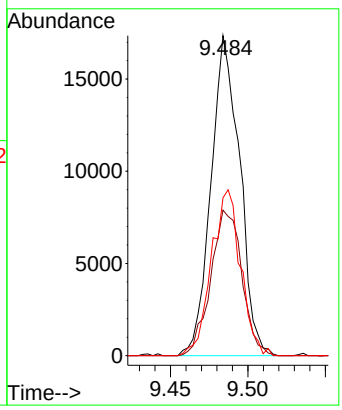


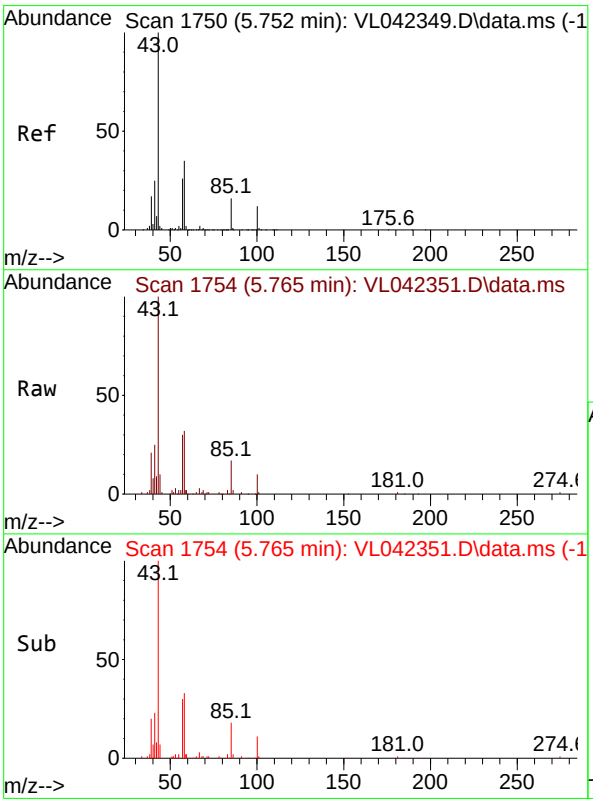
#49
Bromoform
Concen: 0.984 ppbv
RT: 9.484 min Scan# 2
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion:173 Resp: 22413

Ion	Ratio	Lower	Upper
173	100		
175	49.3	38.2	57.2
171	52.7	40.9	61.3

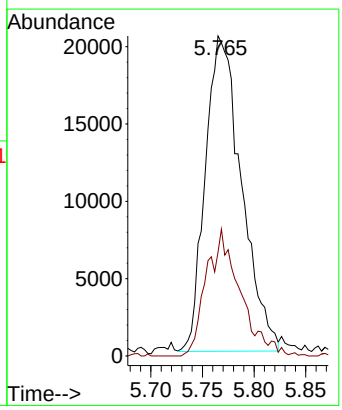


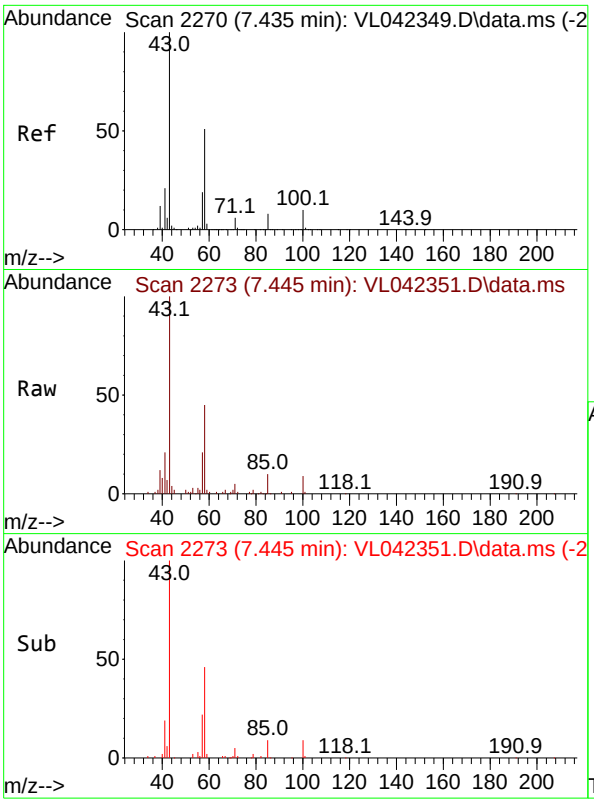


#50
4-Methyl-2-Pentanone
Concen: 1.049 ppbv
RT: 5.765 min Scan# 1754
Delta R.T. 0.013 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 43 Resp: 49725

Ion	Ratio	Lower	Upper
43	100		
58	37.7	28.6	43.0



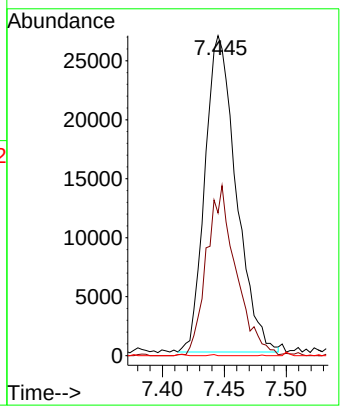


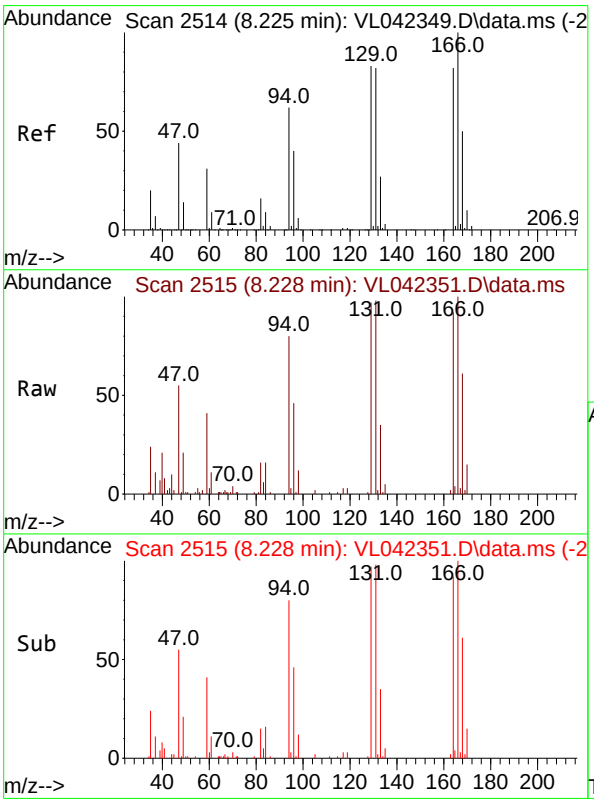
#51
2-Hexanone
Concen: 1.103 ppbv
RT: 7.445 min Scan# 2
Delta R.T. 0.010 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 43 Resp: 47178

Ion	Ratio	Lower	Upper
43	100		
58	50.8	40.2	60.4
98	0.1	0.1	0.1

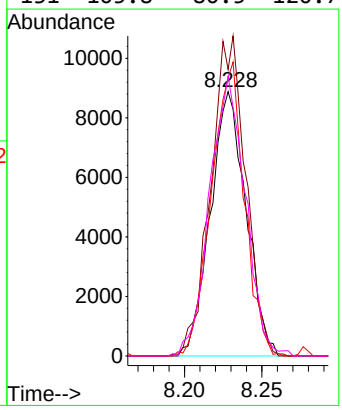


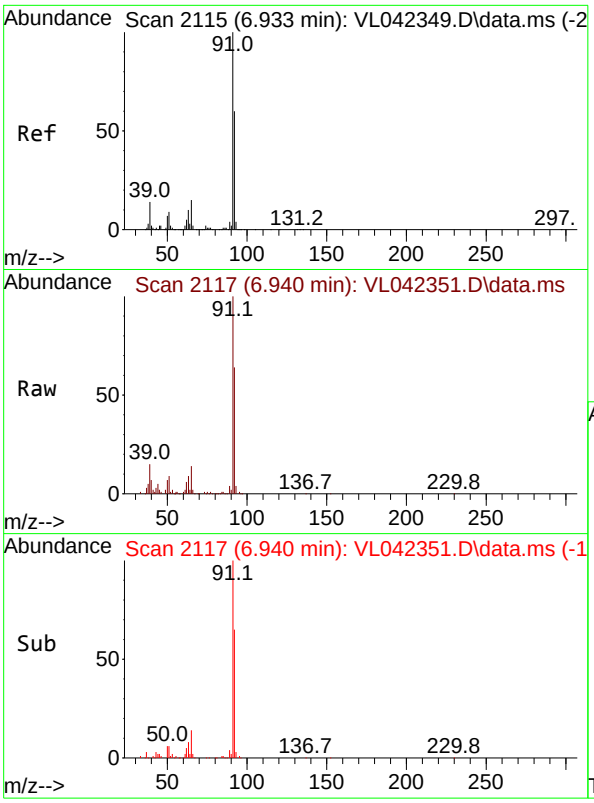


#52
Tetrachloroethene
Concen: 0.943 ppbv
RT: 8.228 min Scan# 2515
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion:164 Resp: 14154

Ion	Ratio	Lower	Upper
164	100		
166	107.7	98.2	147.2
129	104.2	81.8	122.8
131	105.8	80.5	120.7



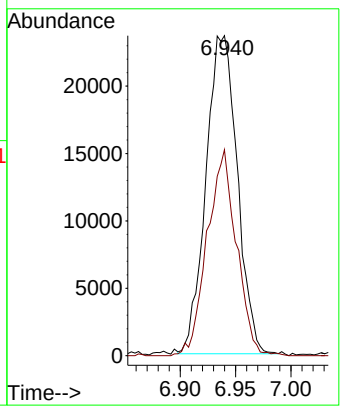


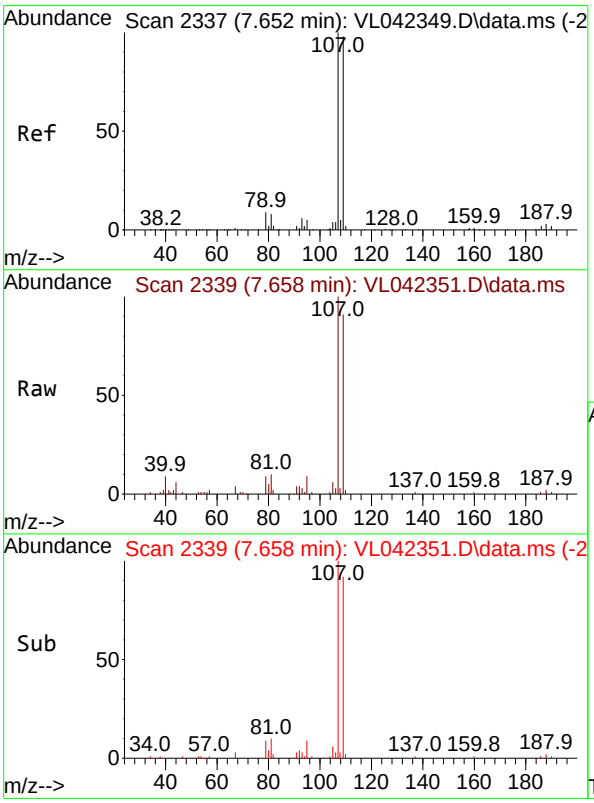
#53
Toluene
Concen: 1.001 ppbv
RT: 6.940 min Scan# 21
Delta R.T. 0.007 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 91 Resp: 46611

Ion	Ratio	Lower	Upper
91	100		
92	60.4	48.2	72.4

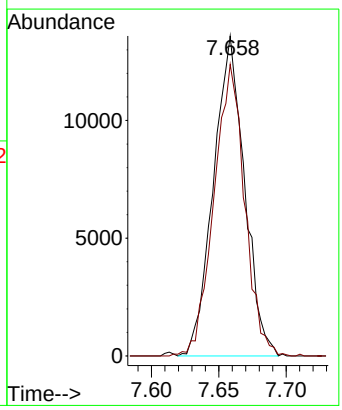


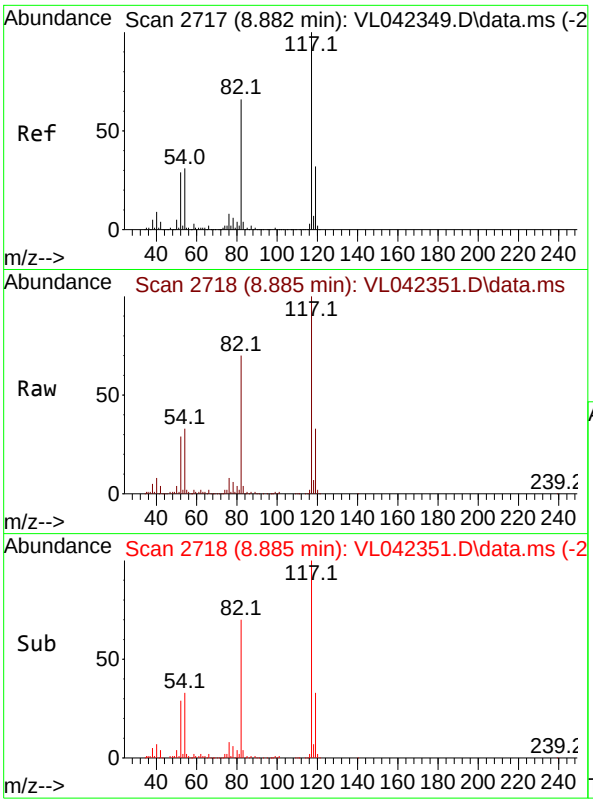


#54
1,2-Dibromoethane
Concen: 1.036 ppbv
RT: 7.658 min Scan# 2339
Delta R.T. 0.007 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion:107 Resp: 21780

Ion	Ratio	Lower	Upper
107	100		
109	90.7	78.2	117.4



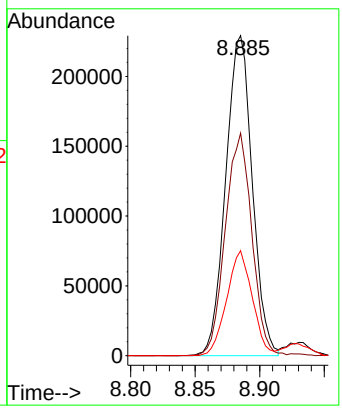


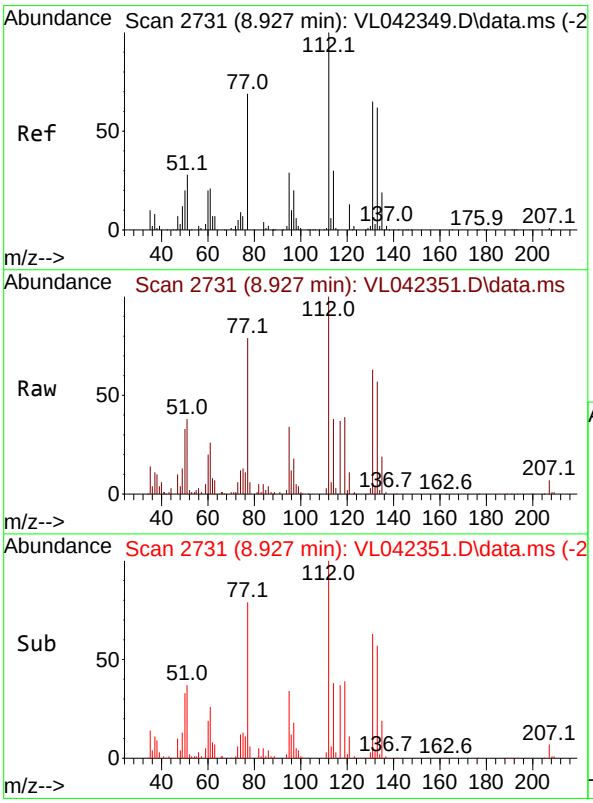
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.885 min Scan# 2
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion:117 Resp: 329090

Ion	Ratio	Lower	Upper
117	100		
82	69.7	57.8	86.6
119	31.8	25.2	37.8

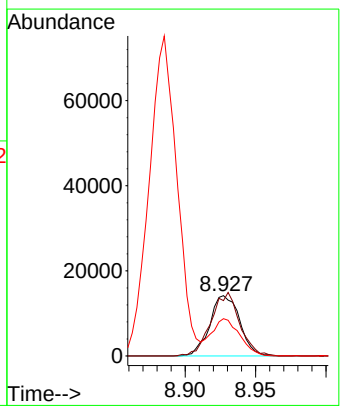


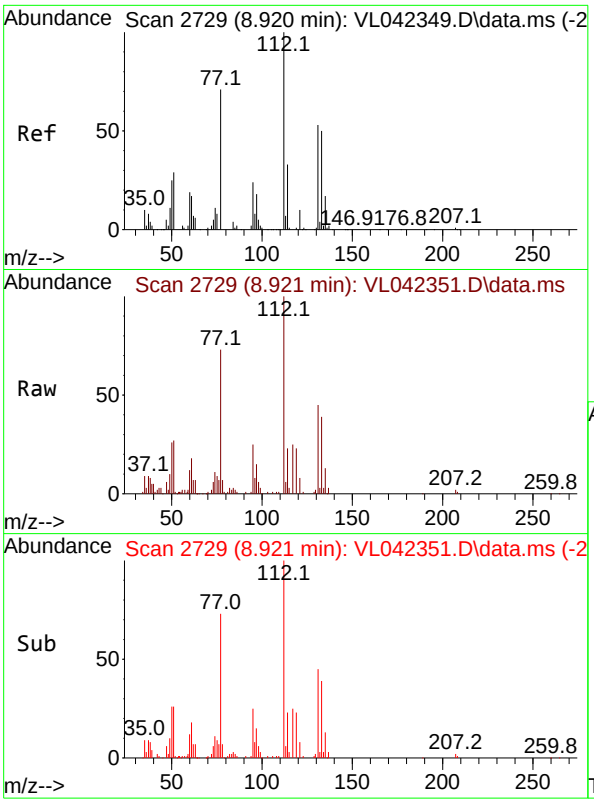


#56
1,1,1,2-Tetrachloroethane
Concen: 1.057 ppbv
RT: 8.927 min Scan# 2731
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion:131 Resp: 21052

Ion	Ratio	Lower	Upper
131	100		
133	100.5	78.3	117.5
119	55.1	48.7	73.1



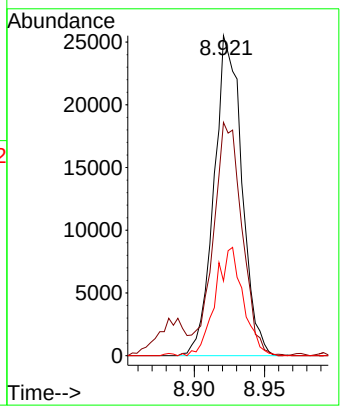


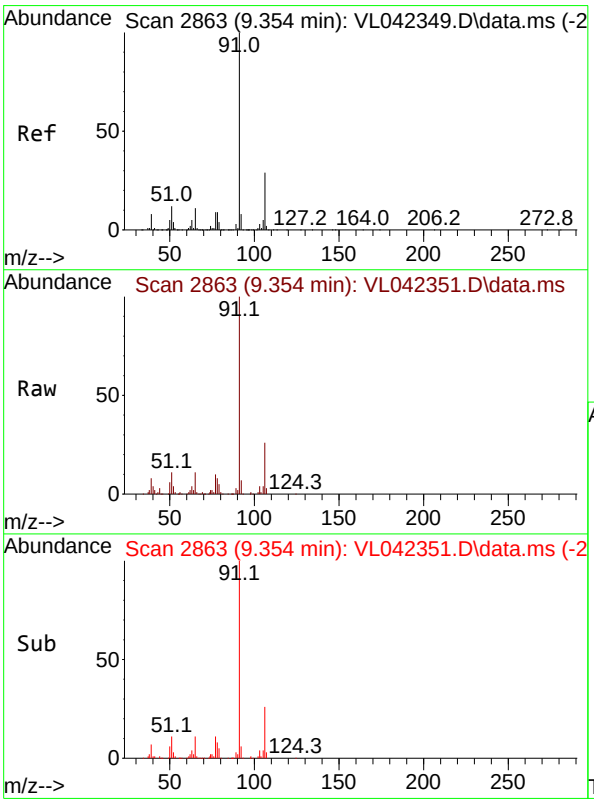
#57
Chlorobenzene
Concen: 1.026 ppbv
RT: 8.921 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion:112 Resp: 35113

Ion	Ratio	Lower	Upper
112	100		
77	72.4	57.8	86.6
114	23.3	29.3	35.9#

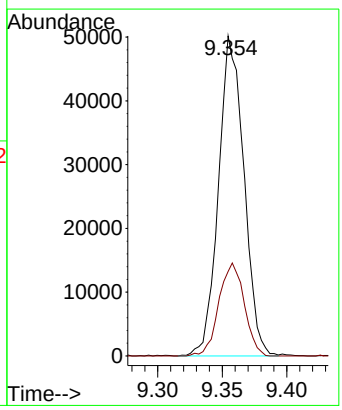


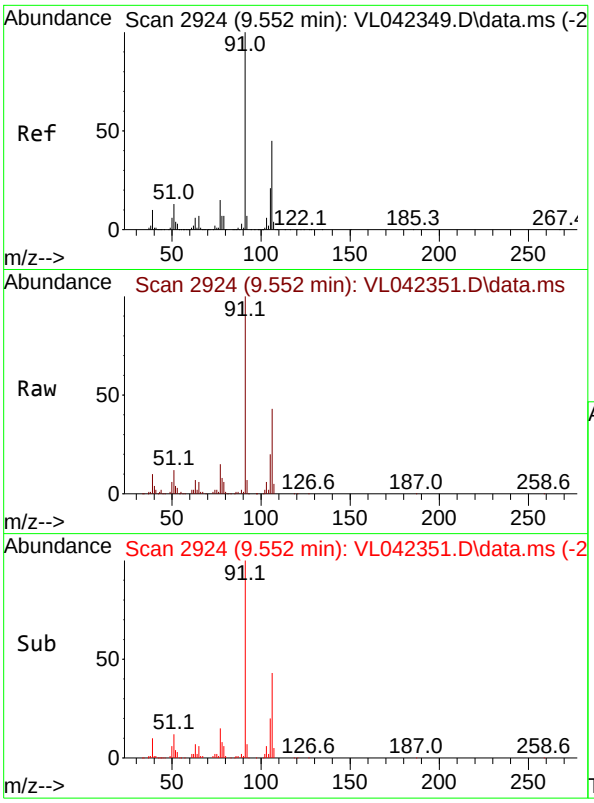


#58
Ethyl Benzene
Concen: 1.054 ppbv
RT: 9.354 min Scan# 2863
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 91 Resp: 68703

Ion	Ratio	Lower	Upper
91	100		
106	26.5	23.0	34.4



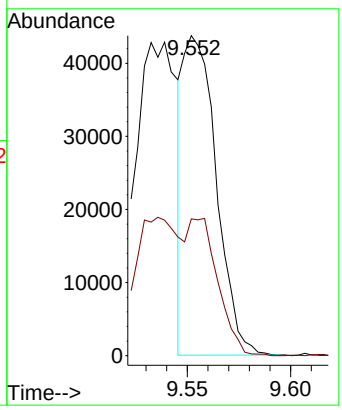


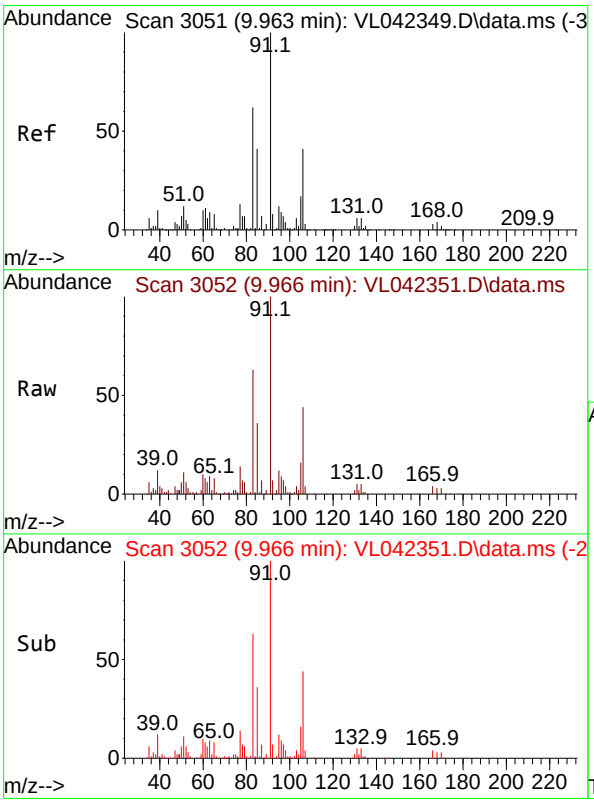
#59
m/p-Xylene
Concen: 0.926 ppbv
RT: 9.552 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 91 Resp: 48794

Ion	Ratio	Lower	Upper
91	100		
106	0.0	35.4	53.2#

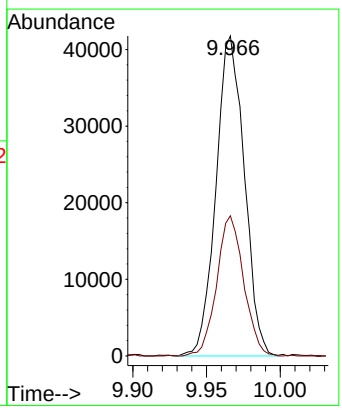


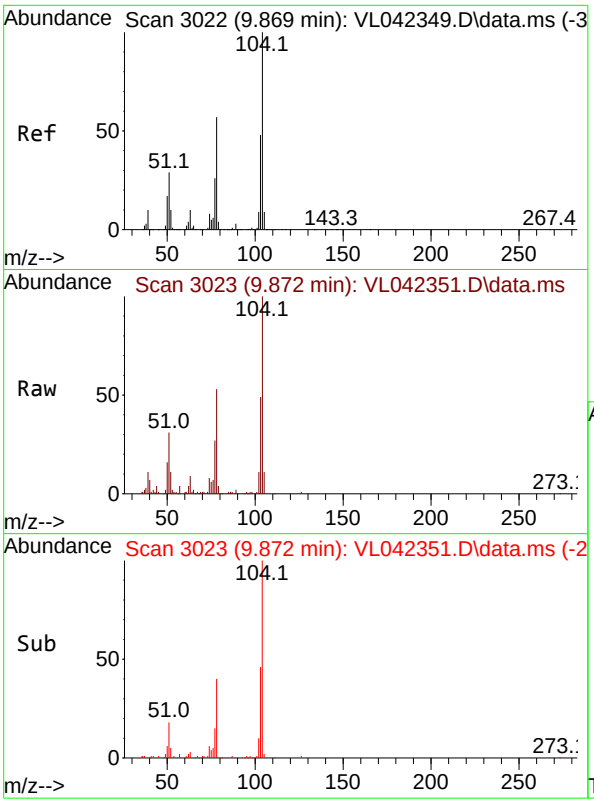


#60
o-Xylene
Concen: 1.056 ppbv
RT: 9.966 min Scan# 3052
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 91 Resp: 55831

Ion	Ratio	Lower	Upper
91	100		
106	41.6	21.1	63.4



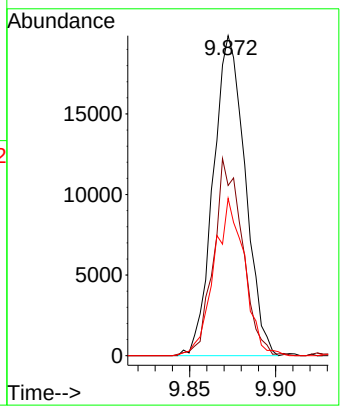


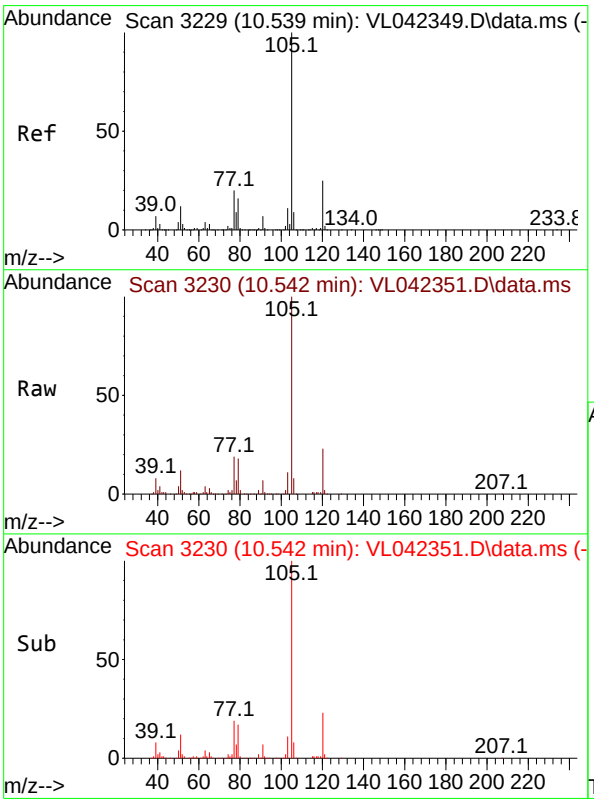
#61
Styrene
Concen: 1.012 ppbv
RT: 9.872 min Scan# 3
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion:104 Resp: 25544

Ion	Ratio	Lower	Upper
104	100		
78	55.7	44.6	66.8
103	47.2	37.4	56.0

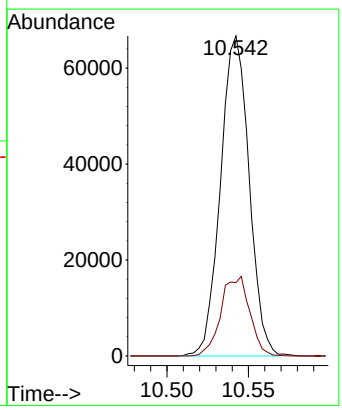


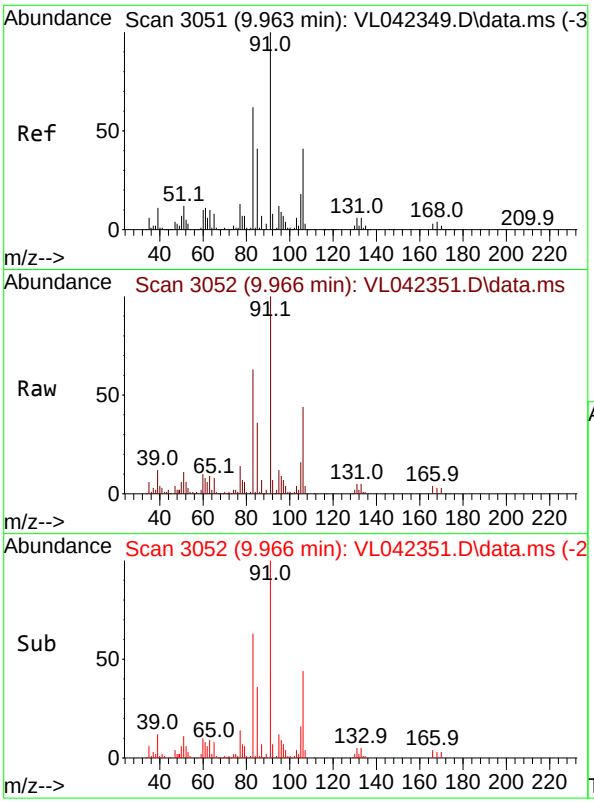


#62
Isopropylbenzene
Concen: 1.047 ppbv
RT: 10.542 min Scan# 3230
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion:105 Resp: 81286

Ion	Ratio	Lower	Upper
105	100		
120	25.0	19.8	29.8



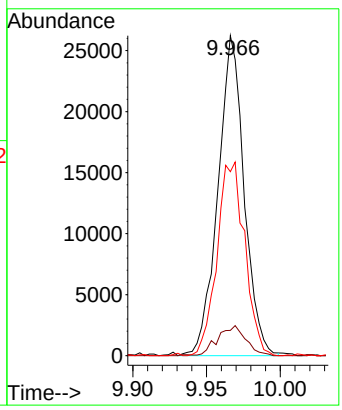


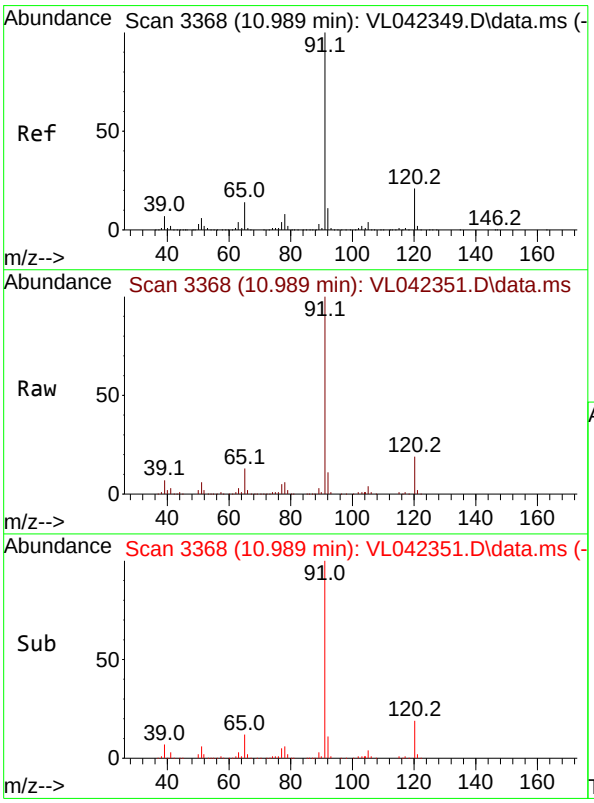
#63
1,1,2,2-Tetrachloroethane
Concen: 0.943 ppbv
RT: 9.966 min Scan# 3
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 83 Resp: 32410

Ion	Ratio	Lower	Upper
83	100		
131	10.2	4.5	13.7
85	64.4	32.4	97.0

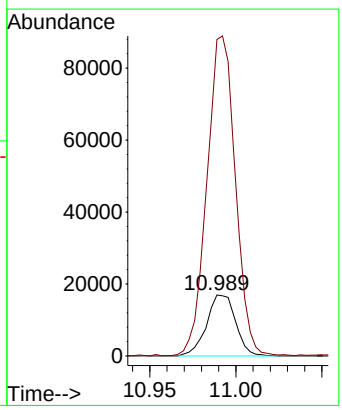


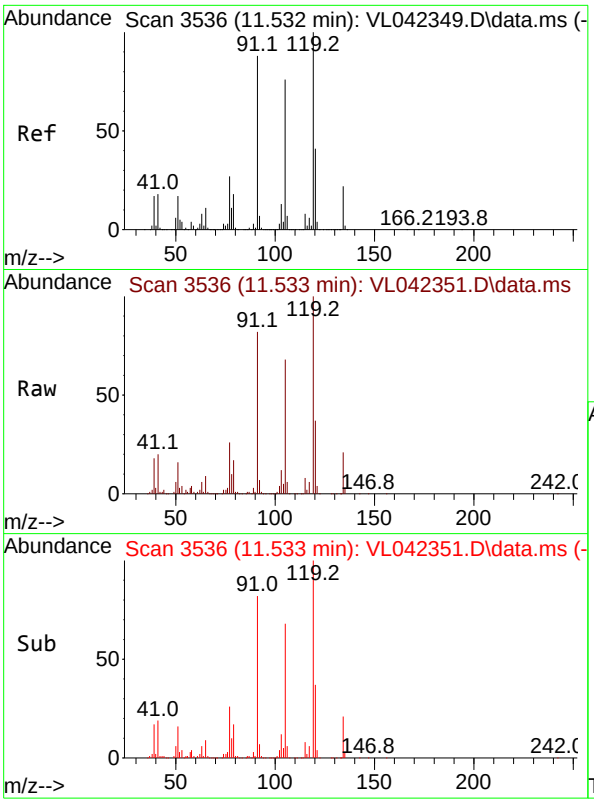


#64
n-propylbenzene
Concen: 1.019 ppbv
RT: 10.989 min Scan# 3368
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion:120 Resp: 19898

Ion	Ratio	Lower	Upper
120	100		
91	517.6	392.4	588.6



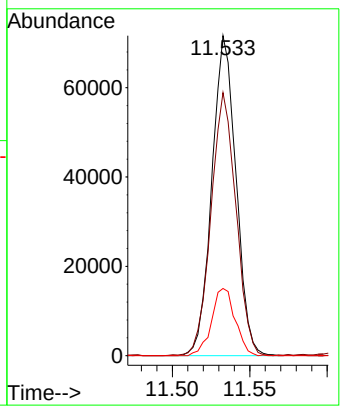


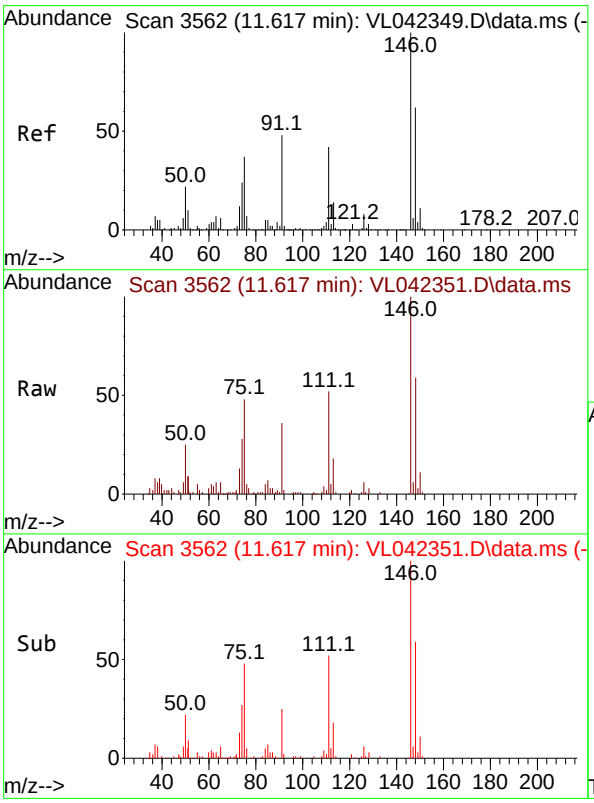
#65
tert-Butylbenzene
Concen: 1.087 ppbv
RT: 11.533 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion:119 Resp: 77598

Ion	Ratio	Lower	Upper
119	100		
91	85.0	74.6	111.8
134	20.5	18.8	28.2

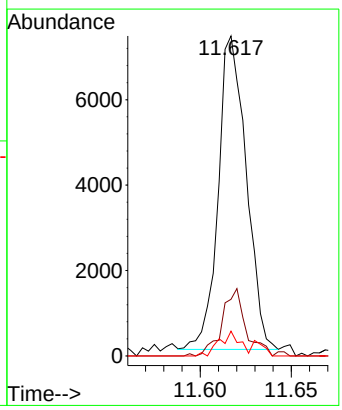


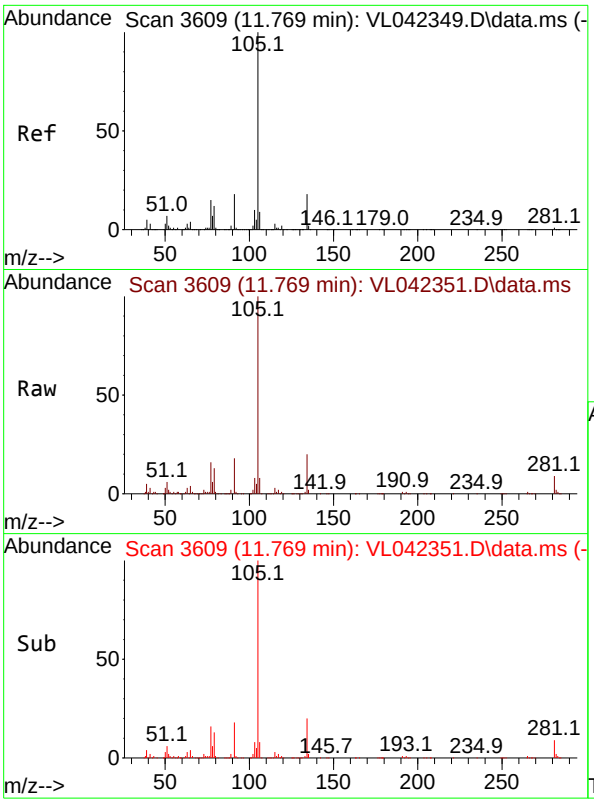


#66
Benzyl Chloride
Concen: 1.003 ppbv
RT: 11.617 min Scan# 3562
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 91 Resp: 7864

Ion	Ratio	Lower	Upper
91	100		
126	18.6	11.8	17.6#
128	7.7	4.5	6.7#



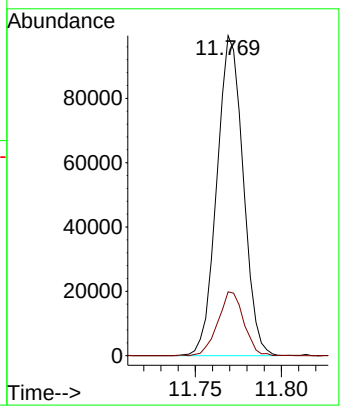


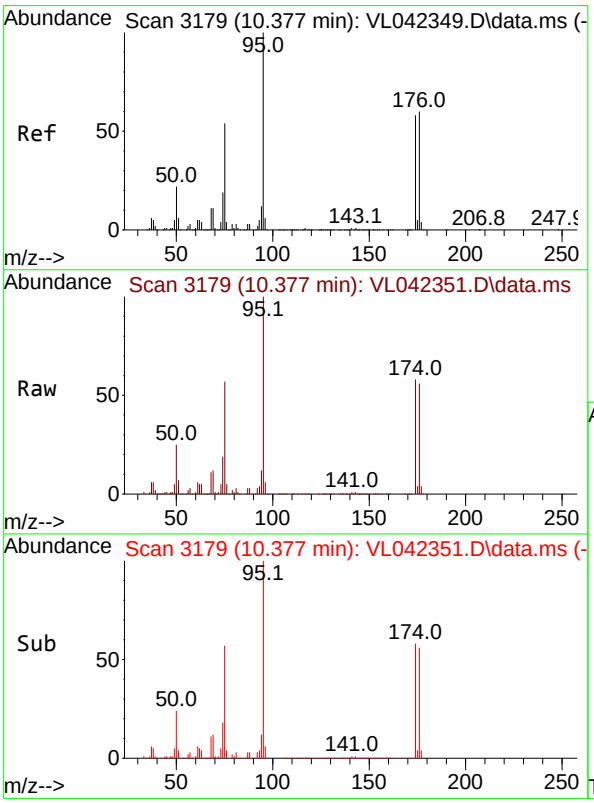
#67
sec-Butylbenzene
Concen: 1.067 ppbv
RT: 11.769 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion:105 Resp: 105919

Ion	Ratio	Lower	Upper
105	100		
134	19.6	14.6	21.8

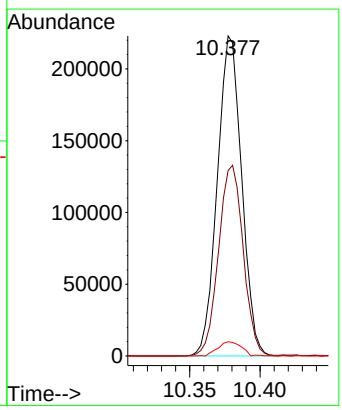


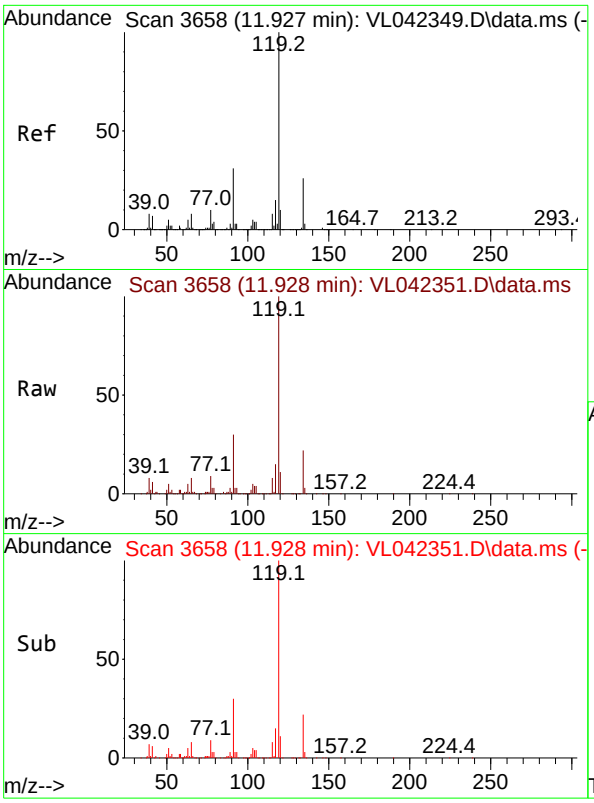


#68
1-Bromo-4-Fluorobenzene
Concen: 9.950 ppbv
RT: 10.377 min Scan# 3179
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 95 Resp: 269087

Ion	Ratio	Lower	Upper
95	100		
174	60.4	48.5	72.7
175	4.3	3.7	5.5



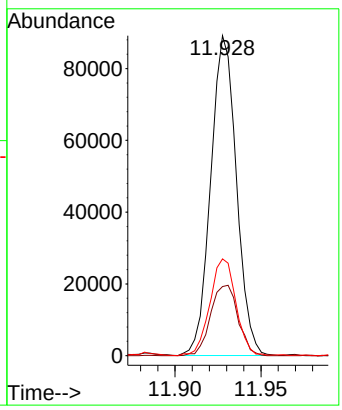


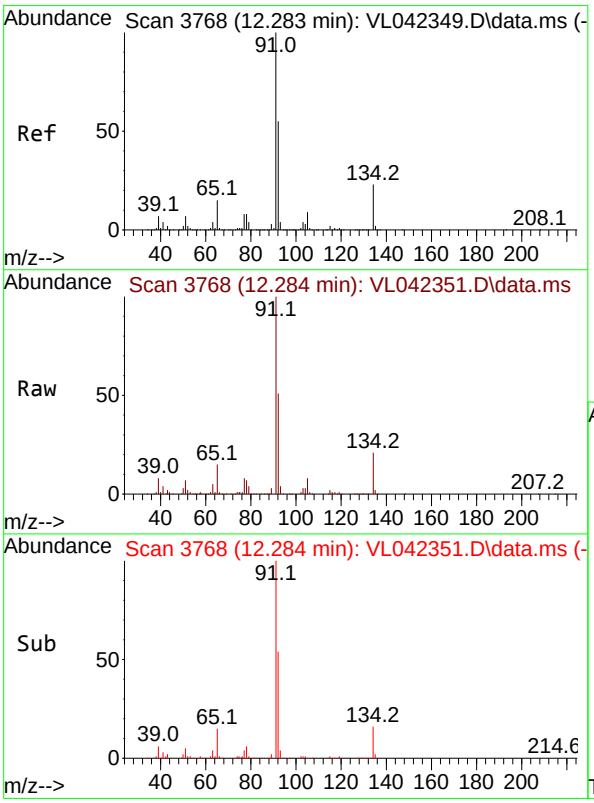
#69
p-Isopropyltoluene
Concen: 1.075 ppbv
RT: 11.928 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion:119 Resp: 92733

Ion	Ratio	Lower	Upper
119	100		
134	23.5	20.0	30.0
91	32.1	24.4	36.6

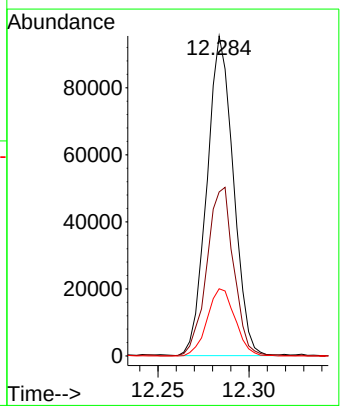


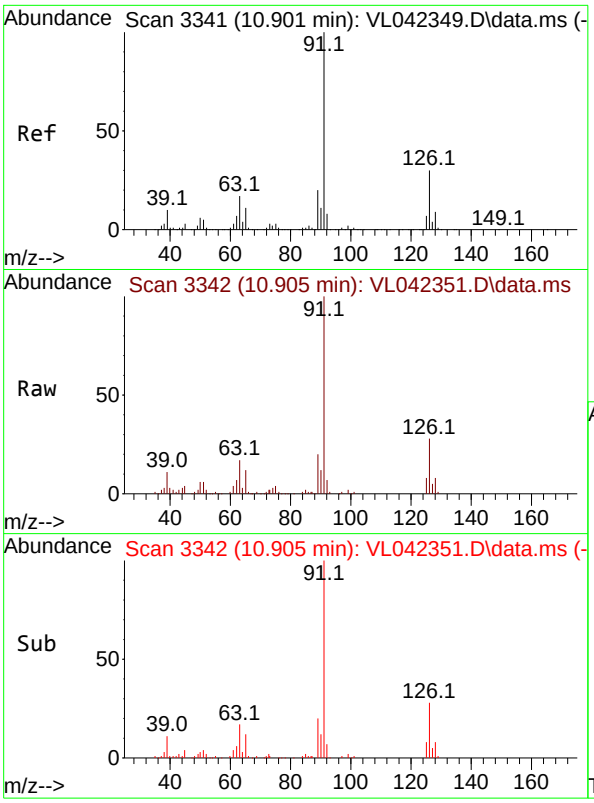


#70
n-Butylbenzene
Concen: 1.072 ppbv
RT: 12.284 min Scan# 3768
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 91 Resp: 96306

Ion	Ratio	Lower	Upper
91	100		
92	54.2	44.2	66.4
134	22.1	18.2	27.4



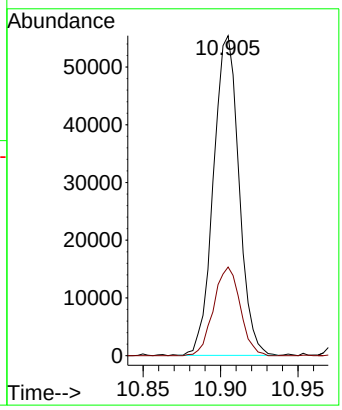


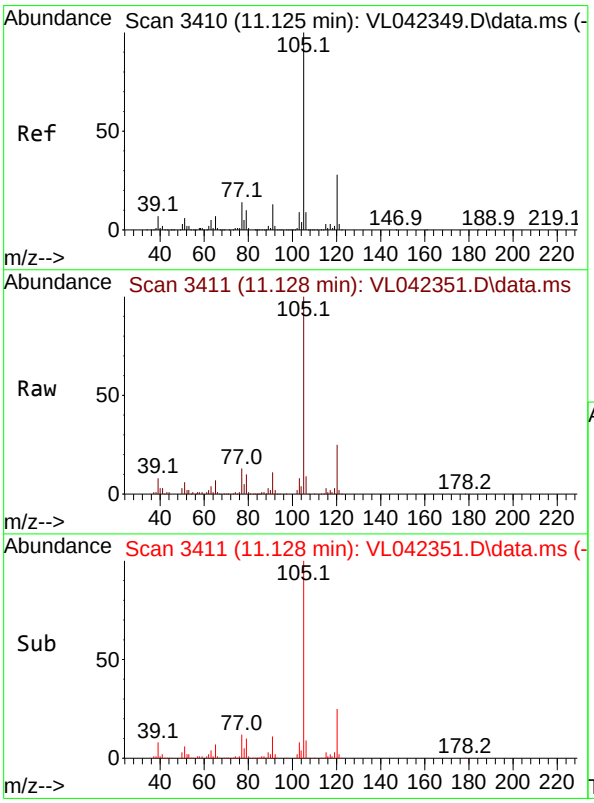
#71
2-Chlorotoluene
Concen: 1.040 ppbv
RT: 10.905 min Scan# 3
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 91 Resp: 63321

Ion	Ratio	Lower	Upper
91	100		
126	28.9	11.4	45.4

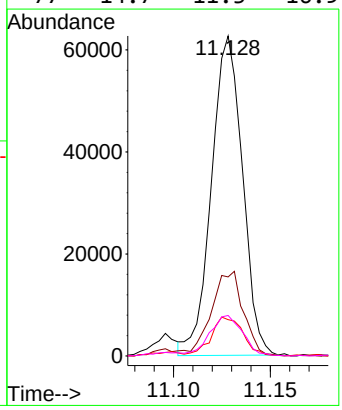


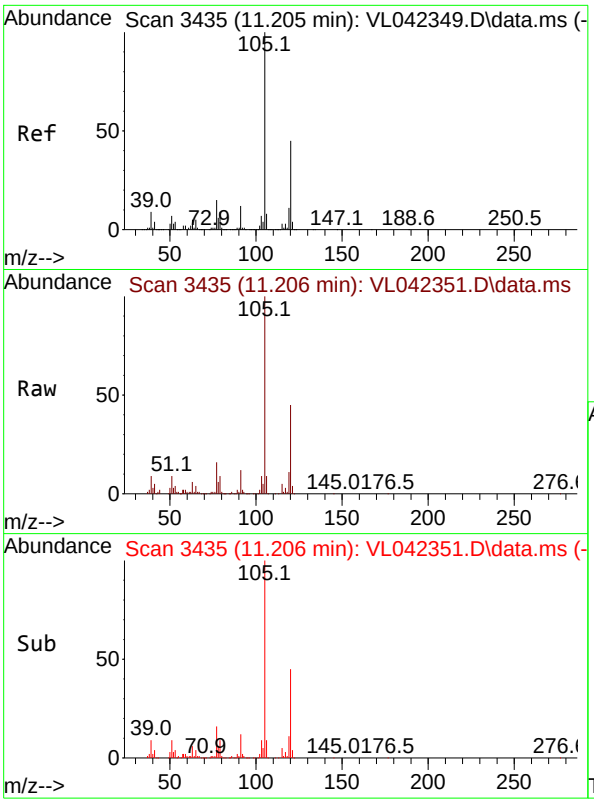


#72
4-Ethyltoluene
Concen: 1.078 ppbv
RT: 11.128 min Scan# 3411
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion:105 Resp: 69698

Ion	Ratio	Lower	Upper
105	100		
120	29.2	23.2	34.8
91	13.5	10.4	15.6
77	14.7	11.3	16.9



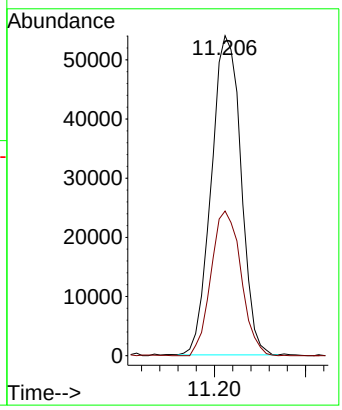


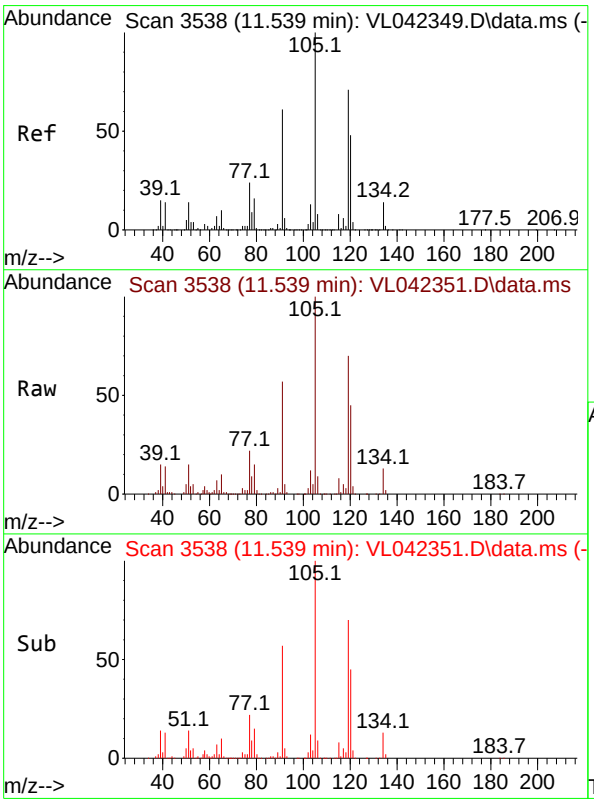
#73
1,3,5-Trimethylbenzene
Concen: 1.067 ppbv
RT: 11.206 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion:105 Resp: 60927

Ion	Ratio	Lower	Upper
105	100		
120	45.3	35.6	53.4

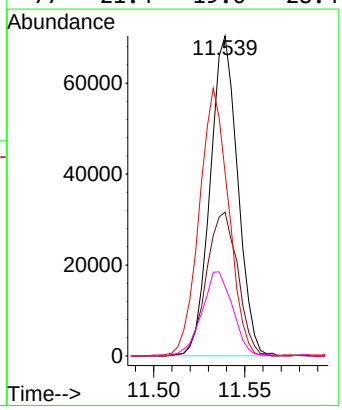


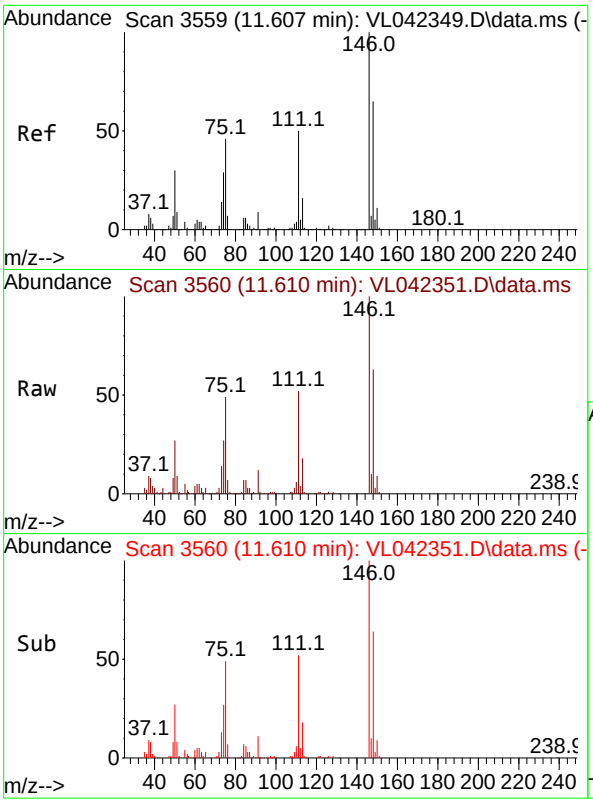


#74
1,2,4-Trimethylbenzene
Concen: 1.108 ppbv
RT: 11.539 min Scan# 3538
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion:105 Resp: 73888

Ion	Ratio	Lower	Upper
105	100		
120	45.0	38.1	57.1
91	57.0	48.8	73.2
77	21.4	19.0	28.4



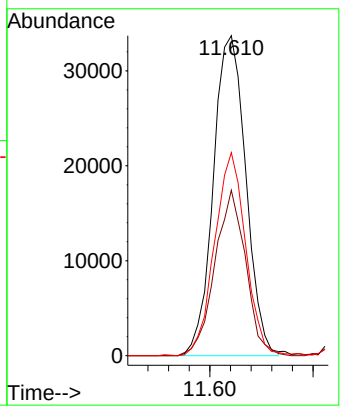


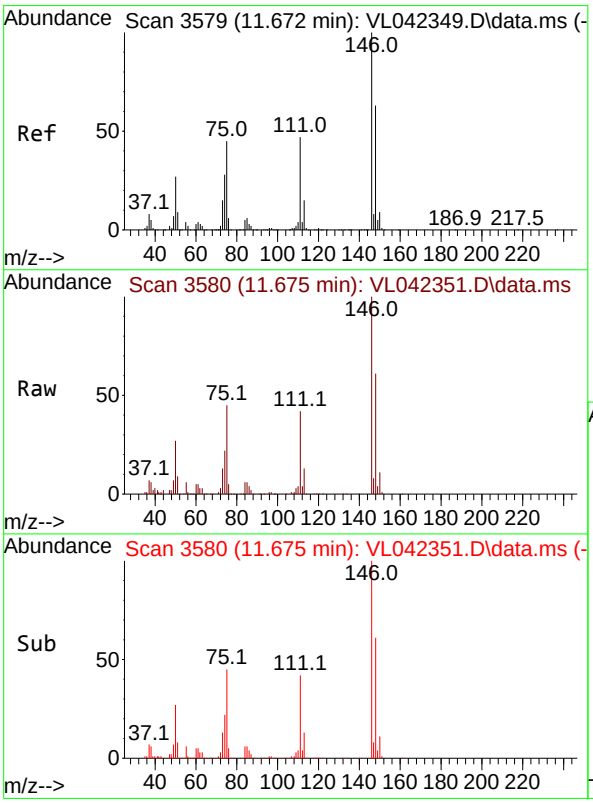
#75
1,3-Dichlorobenzene
Concen: 1.064 ppbv
RT: 11.610 min Scan# 3
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion:146 Resp: 36877

Ion	Ratio	Lower	Upper
146	100		
111	48.9	24.3	72.8
148	60.8	31.6	94.8

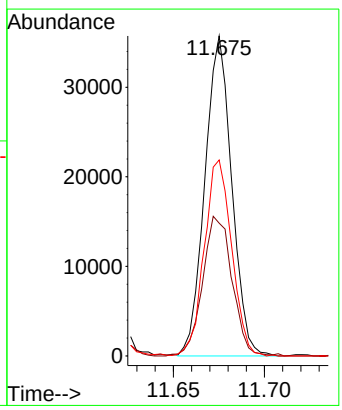


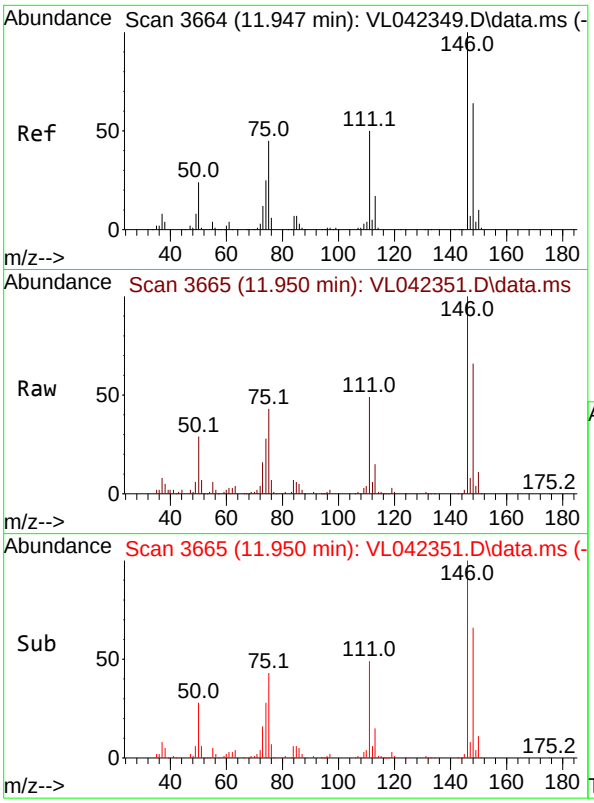


#76
1,4-Dichlorobenzene
Concen: 1.053 ppbv
RT: 11.675 min Scan# 3580
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion:146 Resp: 36692

Ion	Ratio	Lower	Upper
146	100		
111	47.7	24.2	72.6
148	62.3	32.1	96.5



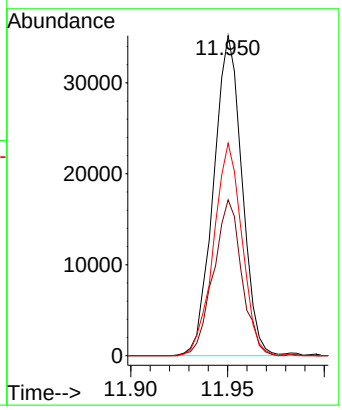


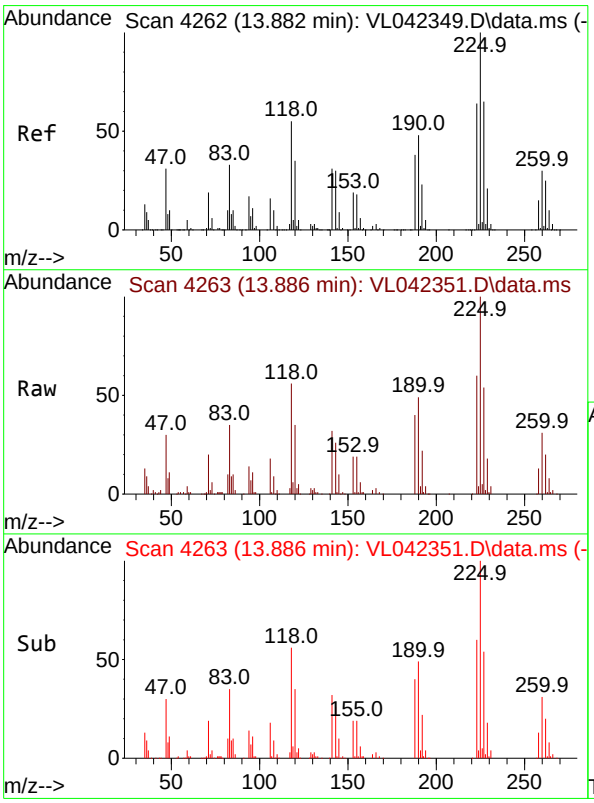
#77
1,2-Dichlorobenzene
Concen: 1.068 ppbv
RT: 11.950 min Scan# 3
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion:146 Resp: 35977

Ion	Ratio	Lower	Upper
146	100		
111	48.7	25.3	75.9
148	65.9	31.5	94.5

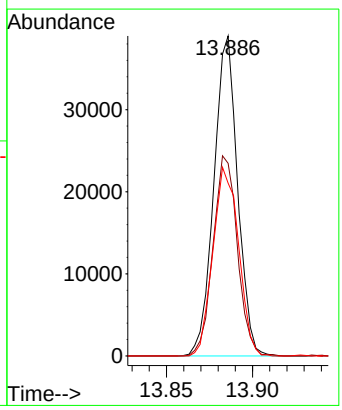


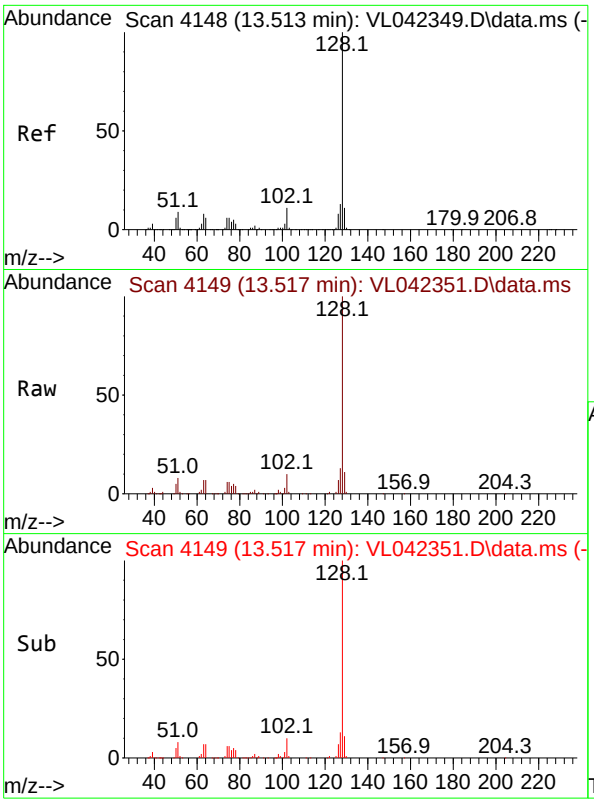


#78
Hexachloro-1,3-Butadiene
Concen: 1.098 ppbv
RT: 13.886 min Scan# 4263
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion:225 Resp: 37377

Ion	Ratio	Lower	Upper
225	100		
223	64.1	50.3	75.5
227	63.6	51.5	77.3



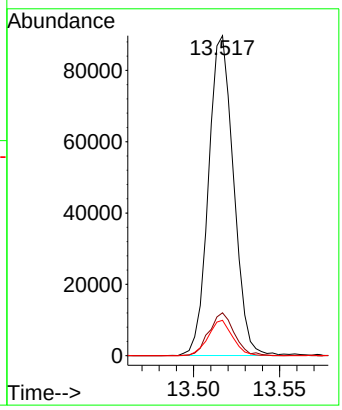


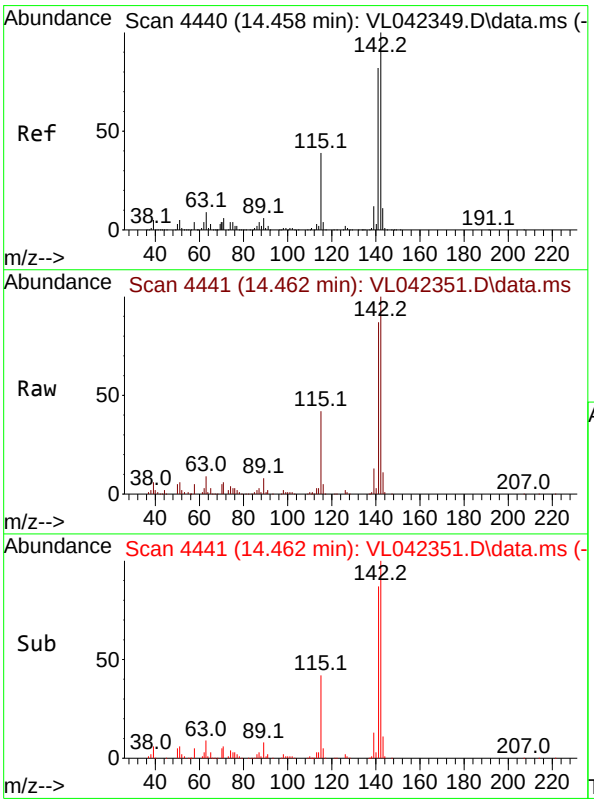
#79
Naphthalene
Concen: 1.138 ppbv
RT: 13.517 min Scan# 41
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion:128 Resp: 90710

Ion	Ratio	Lower	Upper
128	100		
127	13.4	10.6	15.8
129	11.1	8.6	12.8

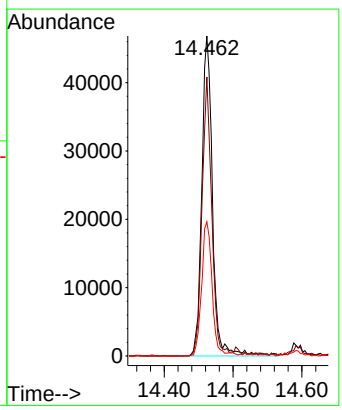


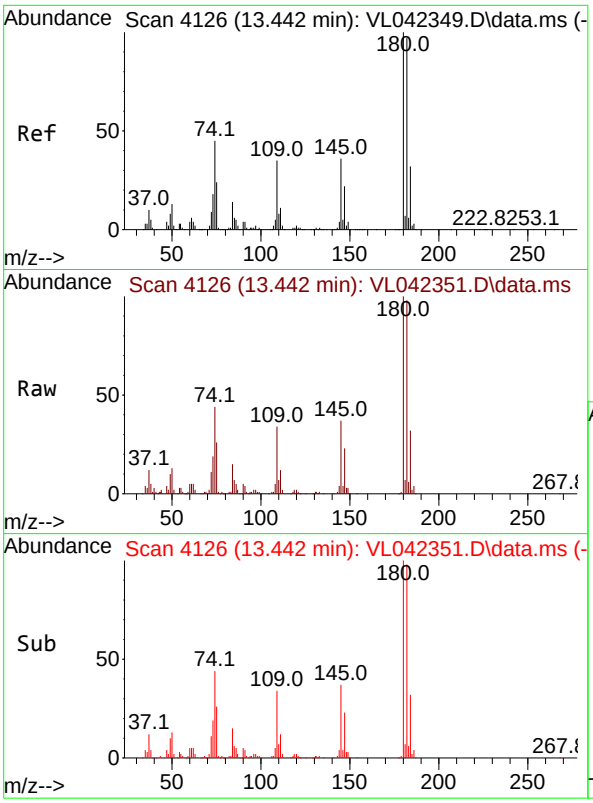


#80
Naphthalene,2-methyl-
Concen: 1.111 ppbv
RT: 14.462 min Scan# 4441
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion:142 Resp: 50487

Ion	Ratio	Lower	Upper
142	100		
141	80.9	66.8	100.2
115	41.2	33.4	50.2



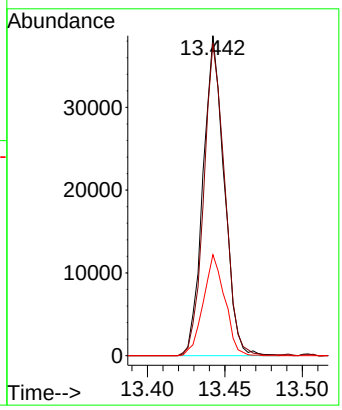


#81
1,2,4-Trichlorobenzene
Concen: 1.074 ppbv
RT: 13.442 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion:180 Resp: 36764

Ion	Ratio	Lower	Upper
180	100		
182	97.0	76.8	115.2
184	32.0	24.6	36.8



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042352.D
Acq On : 17 Apr 2025 11:19
Operator : SY/MD
Sample : VSTDICC0.5
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Quant Time: Apr 18 01:28:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Apr 18 01:24:29 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.784	49	120542	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.952	114	353137	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.878	117	321644	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.374	95	265161	10.032	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 100.300%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.499	85	11036	0.518	ppbv		92
3) Chlorodifluoromethane	1.476	51	11304	0.557	ppbv	#	84
4) Chloromethane	1.531	50	4534	0.538	ppbv		97
5) Vinyl Chloride	1.580	62	4406	0.480	ppbv		97
6) Bromomethane	1.667	94	2394	0.602	ppbv		95
7) Chloroethane	1.703	64	1824	0.550	ppbv	#	87
8) Dichlorotetrafluoroethane	1.554	85	9381	0.513	ppbv		99
9) Propene	1.483	41	5303	0.574	ppbv		93
10) Heptane	4.978	43	5438	0.219	ppbv	#	1
11) Trichlorofluoromethane	1.877	101	10150	0.501	ppbv		97
12) 1,1,2-Trichlorotrifluo...	2.136	101	8371	0.506	ppbv		93
13) Ethanol	1.719	45	715	0.947	ppbv	#	24
14) Bromoethene	1.780	108	3238	0.519	ppbv	#	93
15) Acetone	1.835	43	11859	0.601	ppbv	#	74
16) 1,3-Butadiene	1.609	39	6120	0.660	ppbv	#	82
17) tert-Butyl alcohol	2.043	59	13640	0.558	ppbv	#	85
18) 1,1-Dichloroethene	2.033	96	4430	0.556	ppbv	#	87
19) Isopropyl Alcohol	1.884	45	6327	0.577	ppbv	#	39
20) Methylene Chloride	2.059	84	5273	0.682	ppbv		93
21) Allyl Chloride	2.094	41	7692	0.565	ppbv	#	81
22) trans-1,2-Dichloroethene	2.340	96	4908	0.557	ppbv		92
23) Vinyl Acetate	2.460	43	3953	0.495	ppbv	#	57
24) 1,1-Dichloroethane	2.408	63	8753	0.523	ppbv	#	94
25) Ethyl Acetate	2.835	43	26686	0.548	ppbv	#	93
26) Hexane	2.823	57	11448	0.581	ppbv		91
27) Carbon Disulfide	2.149	76	11472	0.544	ppbv	#	1
28) Methyl tert-Butyl Ether	2.441	73	6833	0.530	ppbv	#	32
29) Chloroform	2.848	83	14815	0.532	ppbv		93
30) Cyclohexane	3.852	84	8572	0.541	ppbv		94
31) cis-1,2-Dichloroethene	2.722	61	9571	0.511	ppbv		96
32) 1,1,1-Trichloroethane	3.370	97	15413	0.516	ppbv		97
34) 2-Butanone	2.560	43	15640	0.560	ppbv		97
35) Carbon Tetrachloride	3.761	117	14683	0.459	ppbv		87
36) Benzene	3.651	78	20233	0.531	ppbv		97
37) 1,2-Dichloroethane	3.217	62	12194	0.533	ppbv	#	95
38) Trichloroethene	4.551	130	7819	0.468	ppbv	#	78
39) 1,2-Dichloropropane	4.315	63	3195	0.225	ppbv		89
40) 1,4-Dioxane	4.599	88	2550	0.331	ppbv	#	1
41) Tetrahydrofuran	3.062	42	8773	0.544	ppbv		95
42) Bromodichloromethane	4.489	83	16642	0.523	ppbv	#	91
43) Methyl Methacrylate	4.871	69	1556	0.091	ppbv	#	1
44) 2,2,4-Trimethylpentane	4.635	57	34170	0.519	ppbv		91
45) t-1,3-Dichloropropene	6.393	75	1332	0.076	ppbv		92

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042352.D
Acq On : 17 Apr 2025 11:19
Operator : SY/MD
Sample : VSTDICC0.5
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Quant Time: Apr 18 01:28:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Apr 18 01:24:29 2025
Response via : Initial Calibration

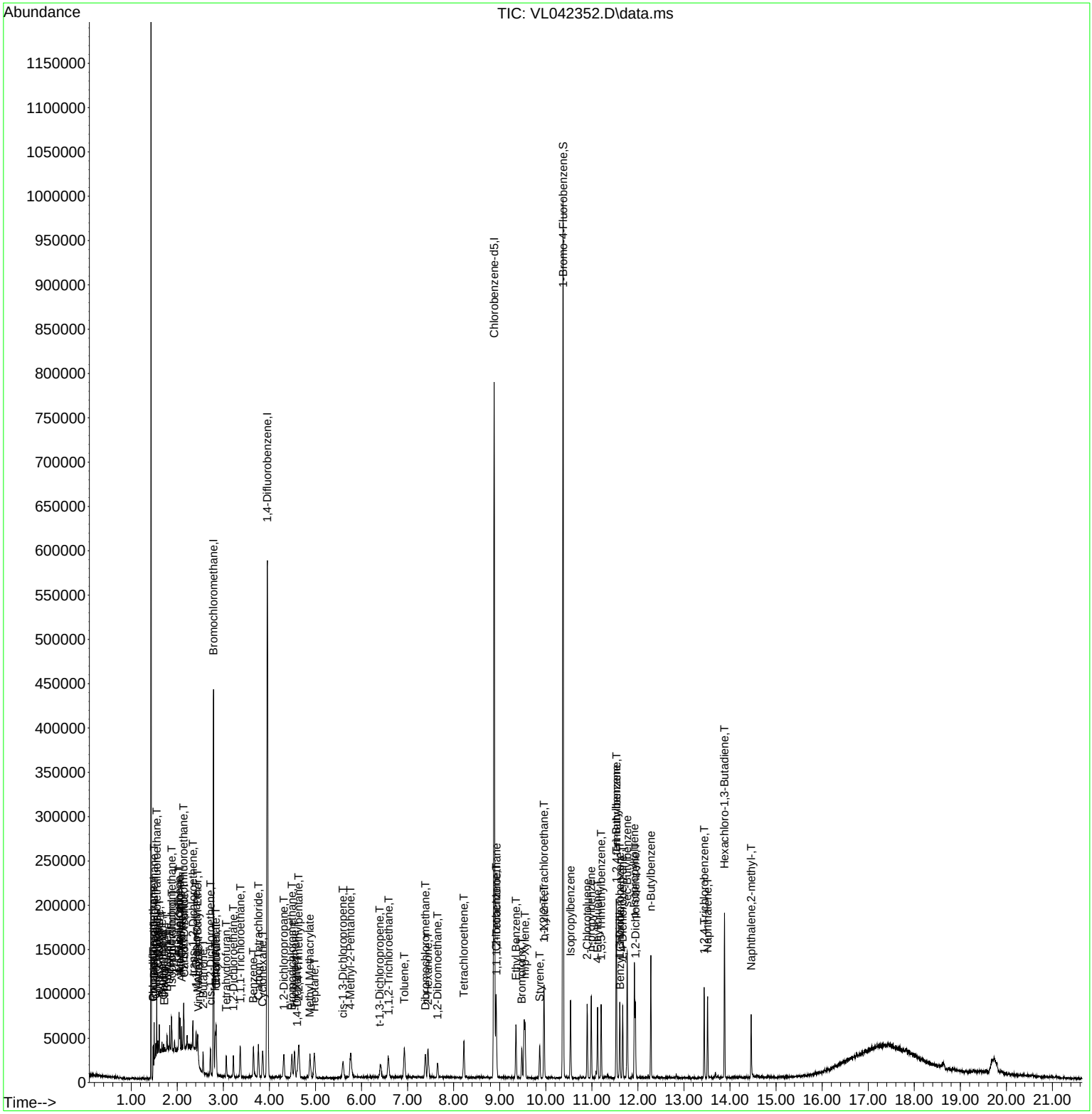
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) cis-1,3-Dichloropropene	5.596	75	7634	0.356	ppbv	#	91
47) 1,1,2-Trichloroethane	6.590	97	2374	0.164	ppbv		94
48) Dibromochloromethane	7.386	129	13122	0.514	ppbv		97
49) Bromoform	9.477	173	10988	0.492	ppbv		99
50) 4-Methyl-2-Pentanone	5.761	43	14380	0.309	ppbv	#	39
51) 2-Hexanone	7.441	43	23684	0.564	ppbv		98
52) Tetrachloroethene	8.221	164	7412	0.503	ppbv	#	88
53) Toluene	6.927	91	24200	0.529	ppbv		97
54) 1,2-Dibromoethane	7.645	107	10282	0.499	ppbv		84
56) 1,1,1,2-Tetrachloroethane	8.930	131	9987	0.513	ppbv	#	1
57) Chlorobenzene	8.924	112	6884	0.206	ppbv		90
58) Ethyl Benzene	9.351	91	32624	0.512	ppbv		97
59) m/p-Xylene	9.548	91	22598	0.439	ppbv	#	32
60) o-Xylene	9.963	91	27983	0.541	ppbv		99
61) Styrene	9.869	104	12736	0.516	ppbv		96
62) Isopropylbenzene	10.539	105	40481	0.533	ppbv		100
63) 1,1,2,2-Tetrachloroethane	9.959	83	15920	0.474	ppbv		99
64) n-propylbenzene	10.985	120	10369	0.544	ppbv		97
65) tert-Butylbenzene	11.529	119	37294	0.535	ppbv		93
66) Benzyl Chloride	11.613	91	3878	0.506	ppbv	#	91
67) sec-Butylbenzene	11.765	105	52139	0.537	ppbv		97
69) p-Isopropyltoluene	11.924	119	45574	0.541	ppbv		98
70) n-Butylbenzene	12.280	91	48004	0.547	ppbv		99
71) 2-Chlorotoluene	10.898	91	31709	0.533	ppbv		100
72) 4-Ethyltoluene	11.125	105	33048	0.523	ppbv	#	95
73) 1,3,5-Trimethylbenzene	11.202	105	30464	0.546	ppbv		99
74) 1,2,4-Trimethylbenzene	11.536	105	37765	0.579	ppbv	#	90
75) 1,3-Dichlorobenzene	11.607	146	18003	0.531	ppbv		99
76) 1,4-Dichlorobenzene	11.668	146	18300	0.537	ppbv		96
77) 1,2-Dichlorobenzene	11.947	146	17446	0.530	ppbv		95
78) Hexachloro-1,3-Butadiene	13.879	225	18705	0.562	ppbv		98
79) Naphthalene	13.513	128	38521	0.494	ppbv	#	92
80) Naphthalene,2-methyl-	14.458	142	21076	0.475	ppbv		96
81) 1,2,4-Trichlorobenzene	13.442	180	16504	0.493	ppbv		97

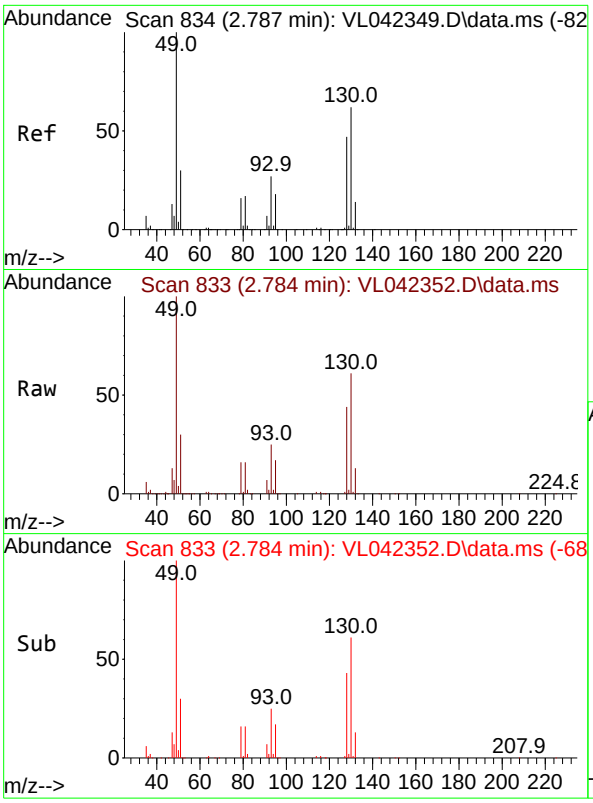
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042352.D
Acq On : 17 Apr 2025 11:19
Operator : SY/MD
Sample : VSTDICC0.5
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Quant Time: Apr 18 01:28:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Apr 18 01:24:29 2025
Response via : Initial Calibration



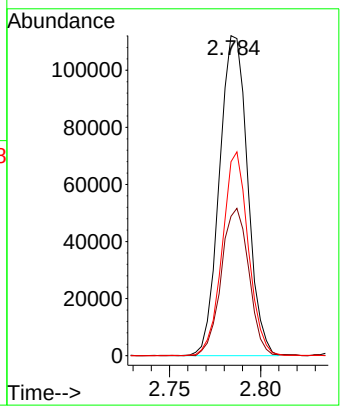


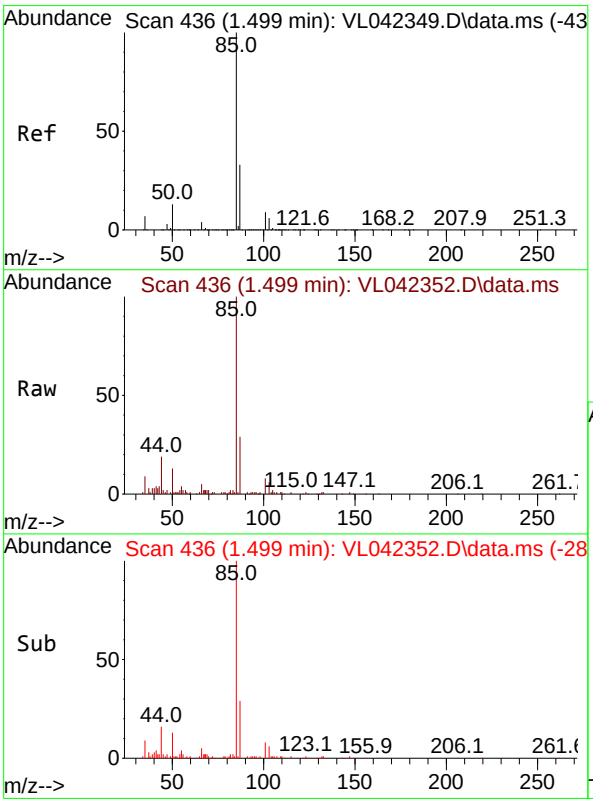
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 8
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 49 Resp: 120542

Ion	Ratio	Lower	Upper
49	100		
128	45.3	22.8	68.4
130	59.0	29.3	88.0

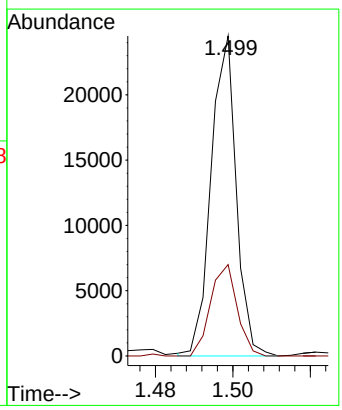


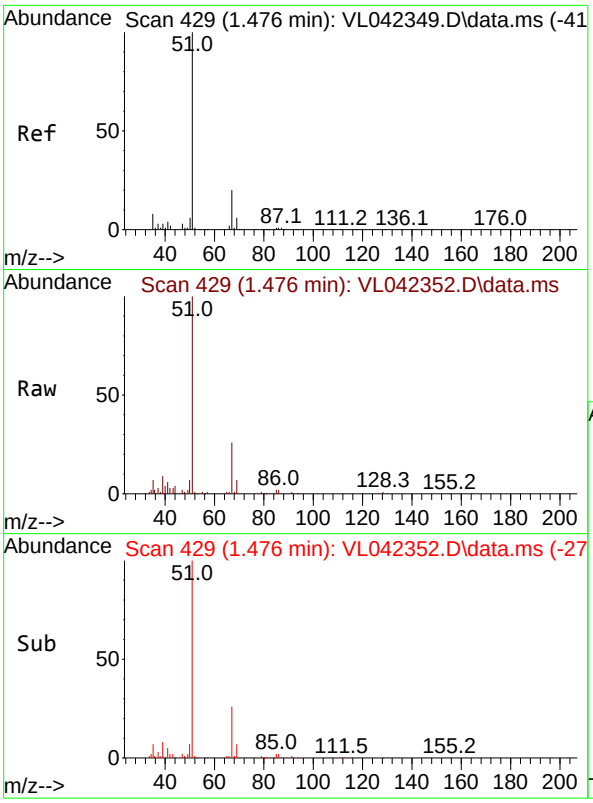


#2
Dichlorodifluoromethane
Concen: 0.518 ppbv
RT: 1.499 min Scan# 436
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 85 Resp: 11036

Ion	Ratio	Lower	Upper
85	100		
87	28.6	26.6	39.8



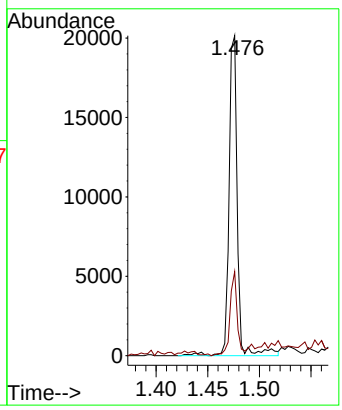


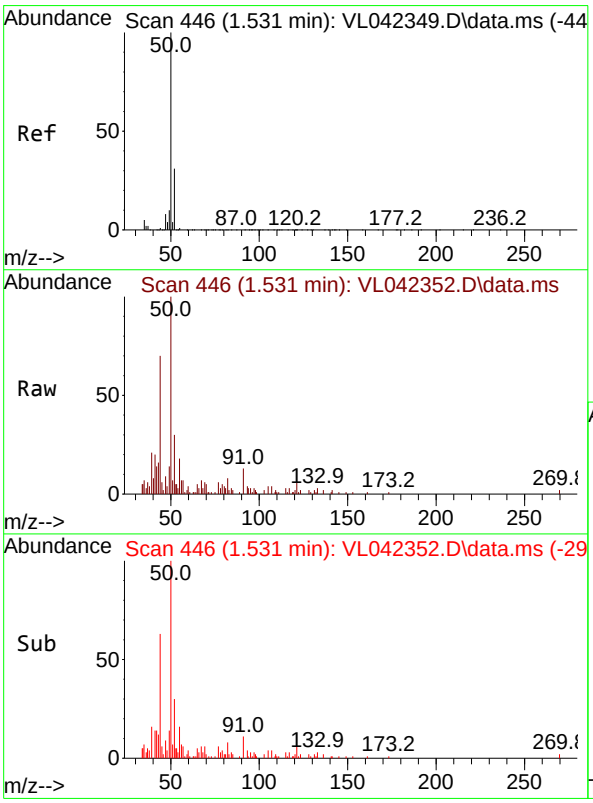
#3
Chlorodifluoromethane
Concen: 0.557 ppbv
RT: 1.476 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 51 Resp: 11304

Ion	Ratio	Lower	Upper
51	100		
67	27.8	16.2	24.4#

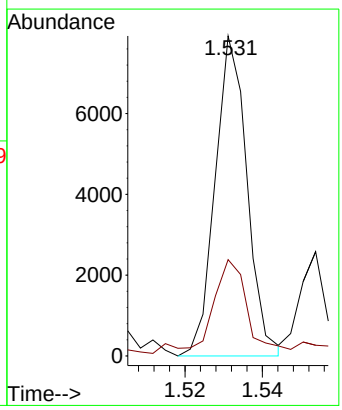


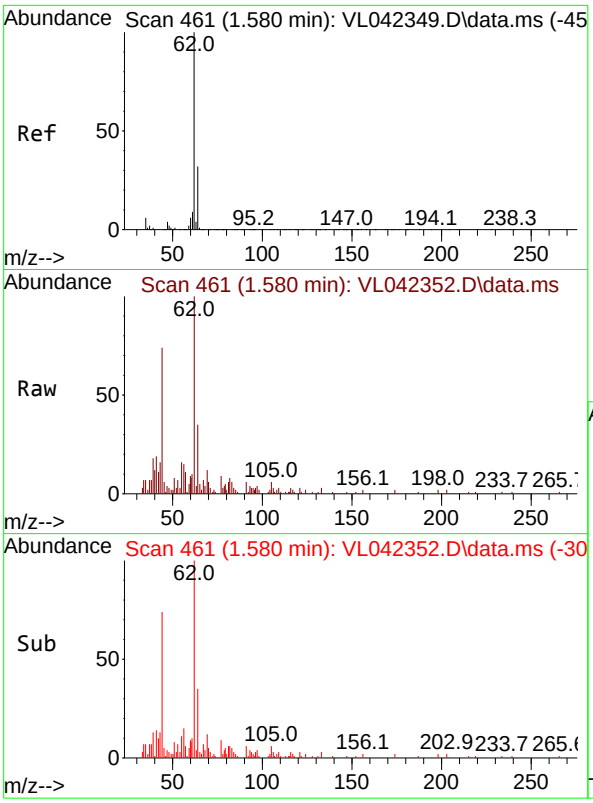


#4
Chloromethane
Concen: 0.538 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 50 Resp: 4534

Ion	Ratio	Lower	Upper
50	100		
52	32.8	24.7	37.1



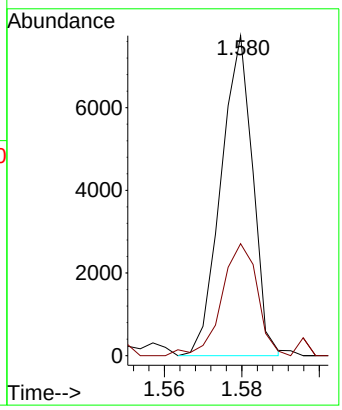


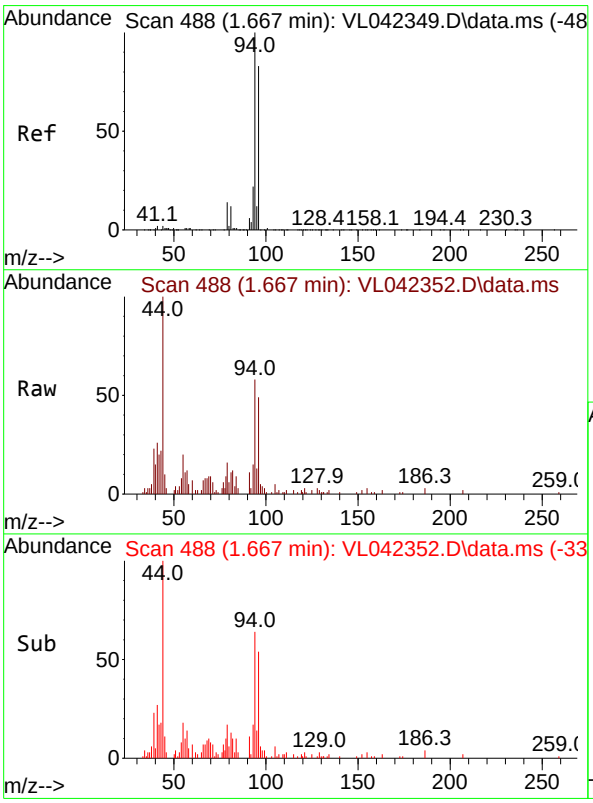
#5
Vinyl Chloride
Concen: 0.480 ppbv
RT: 1.580 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 62 Resp: 4406

Ion	Ratio	Lower	Upper
62	100		
64	33.5	25.4	38.0

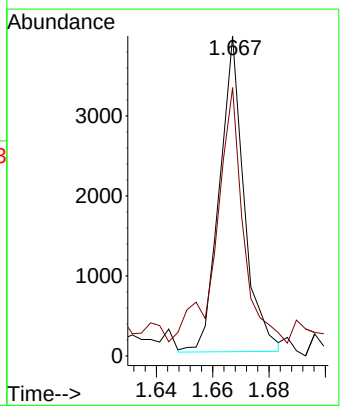


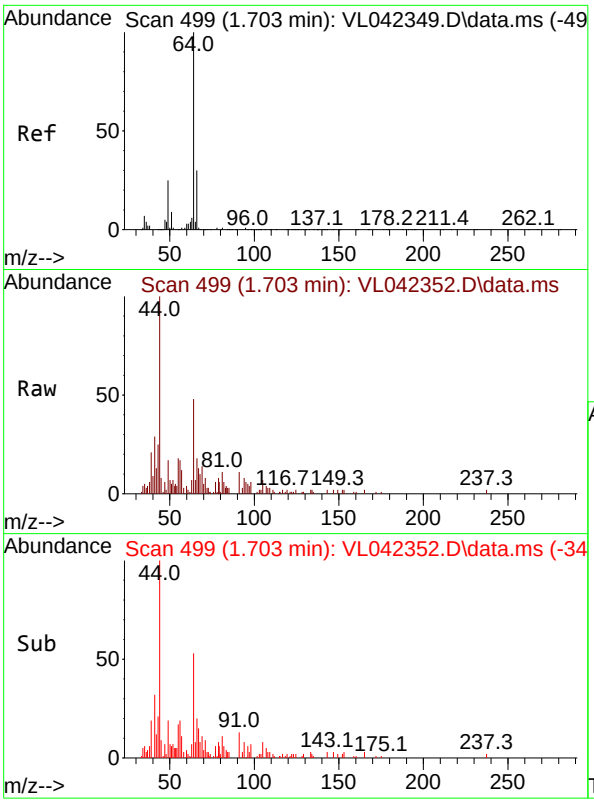


#6
Bromomethane
Concen: 0.602 ppbv
RT: 1.667 min Scan# 488
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 94 Resp: 2394

Ion	Ratio	Lower	Upper
94	100		
96	78.1	66.2	99.2



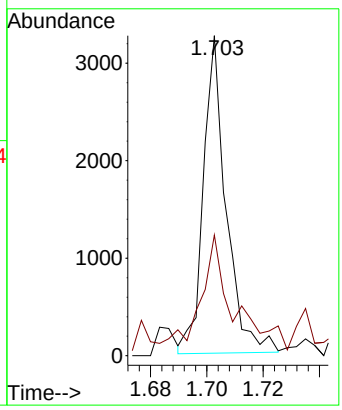


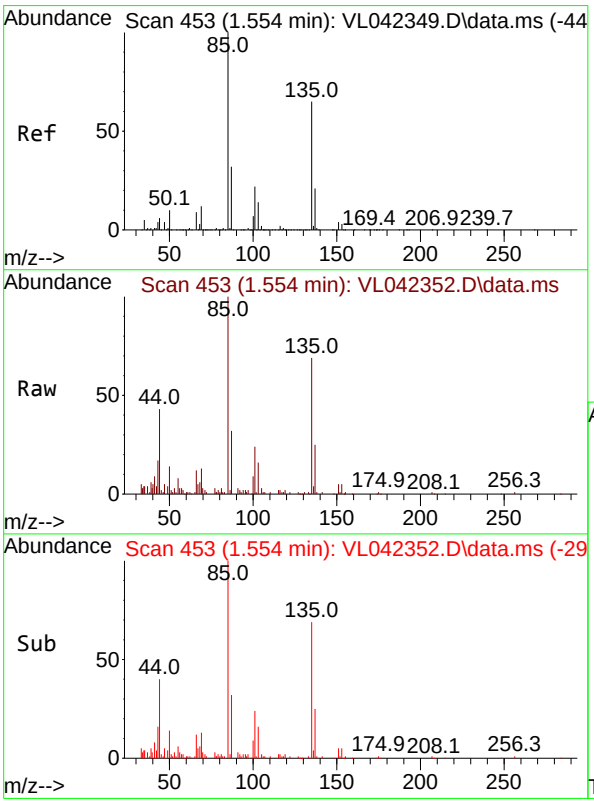
#7
Chloroethane
Concen: 0.550 ppbv
RT: 1.703 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 64 Resp: 1824

Ion	Ratio	Lower	Upper
64	100		
66	37.7	24.6	37.0#

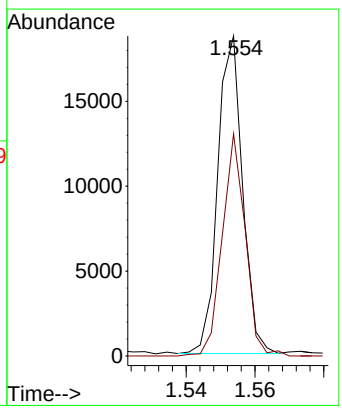


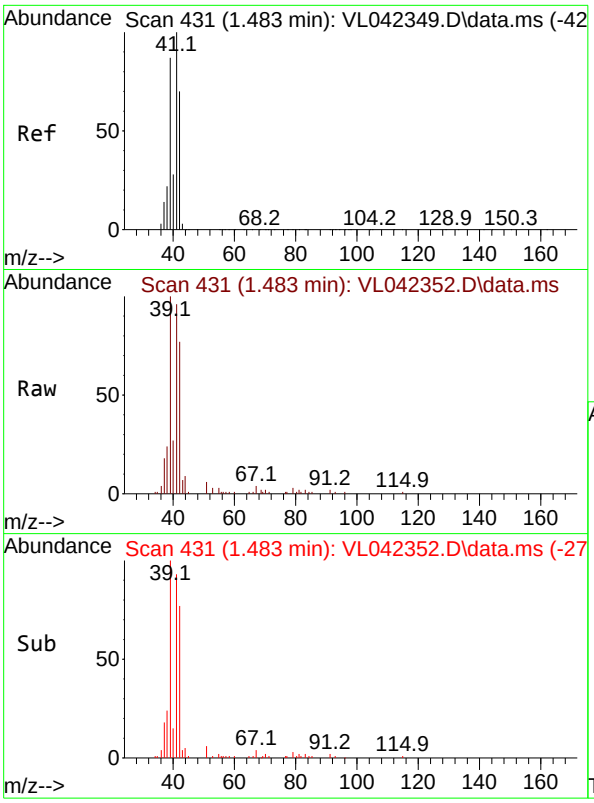


#8
Dichlorotetrafluoroethane
Concen: 0.513 ppbv
RT: 1.554 min Scan# 453
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 85 Resp: 9381

Ion	Ratio	Lower	Upper
85	100		
135	66.2	52.2	78.2



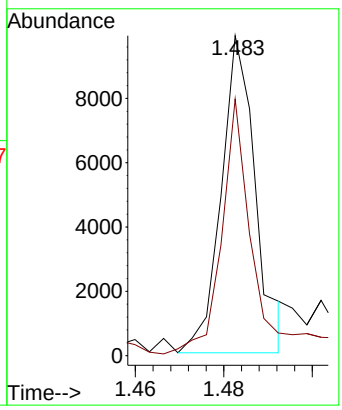


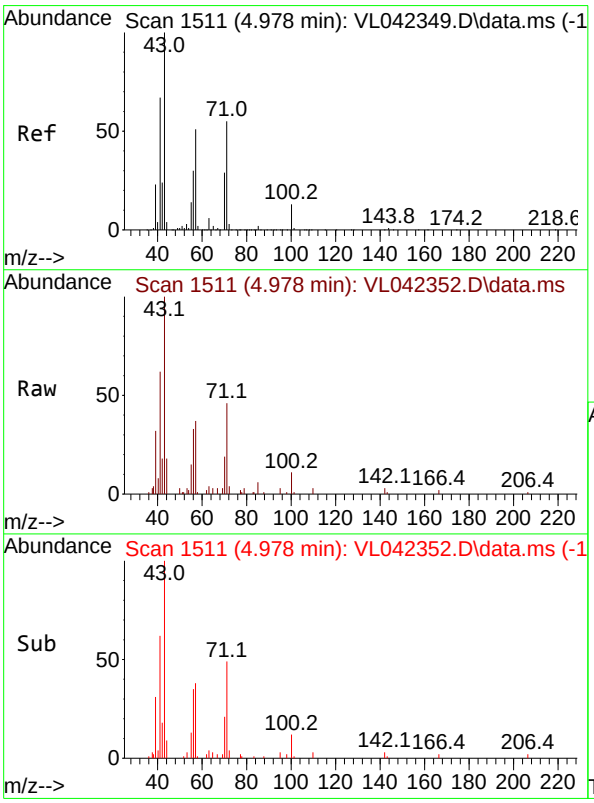
#9
Propene
Concen: 0.574 ppbv
RT: 1.483 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 41 Resp: 5303

Ion	Ratio	Lower	Upper
41	100		
42	64.8	56.2	84.4

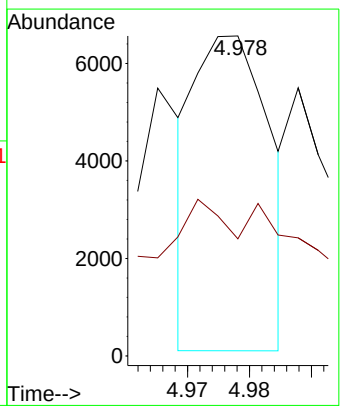


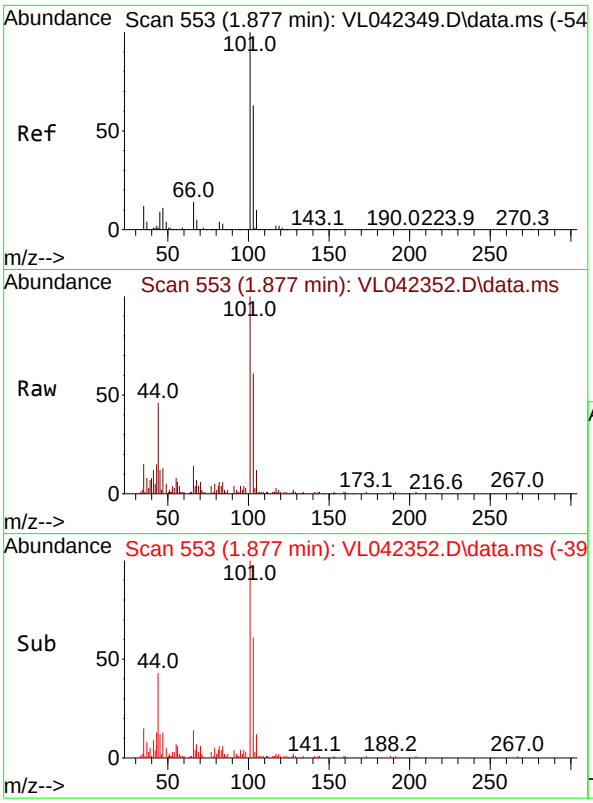


#10
Heptane
Concen: 0.219 ppbv
RT: 4.978 min Scan# 1511
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 43 Resp: 5438

Ion	Ratio	Lower	Upper
43	100		
57	138.4	39.9	59.9#



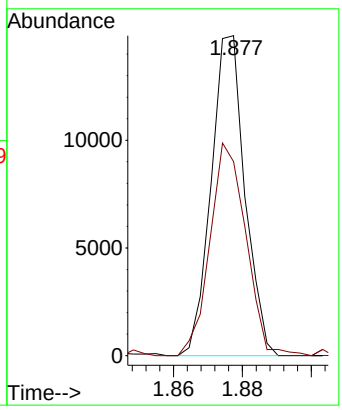


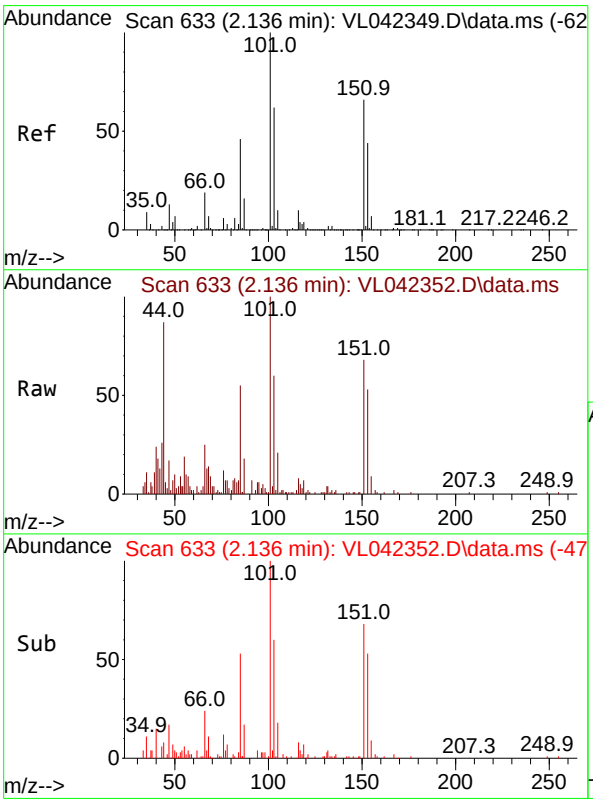
#11
Trichlorofluoromethane
Concen: 0.501 ppbv
RT: 1.877 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion:101 Resp: 10150

Ion	Ratio	Lower	Upper
101	100		
103	60.6	50.1	75.1

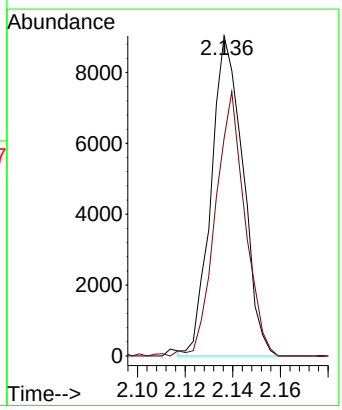


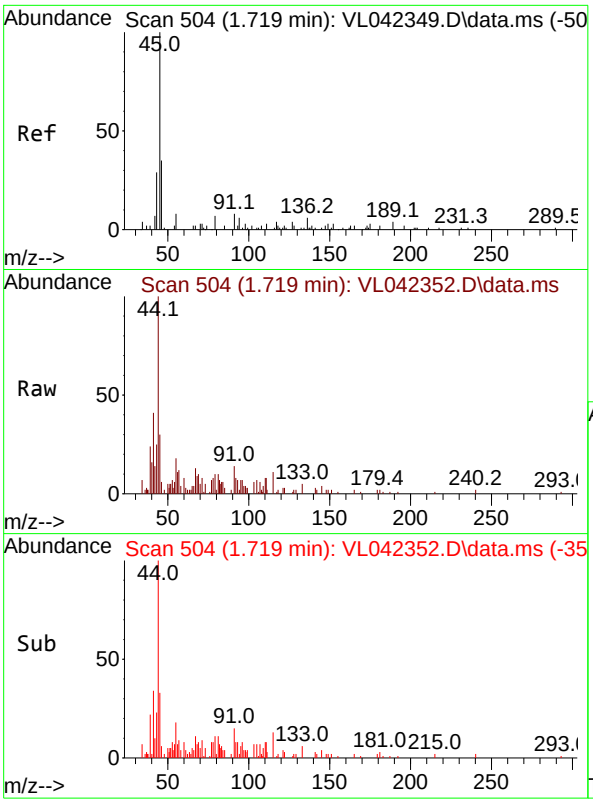


#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.506 ppbv
RT: 2.136 min Scan# 633
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion:101 Resp: 8371

Ion	Ratio	Lower	Upper
101	100		
151	77.4	57.0	85.6



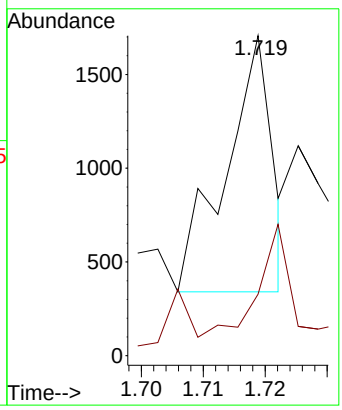


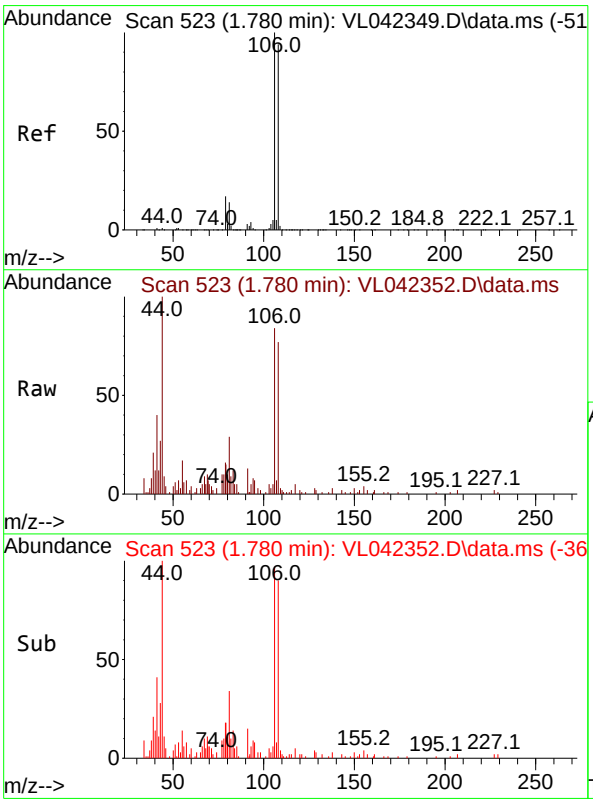
#13
Ethanol
Concen: 0.947 ppbv
RT: 1.719 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 45 Resp: 715

Ion	Ratio	Lower	Upper
45	100		
46	0.0	21.9	87.7#

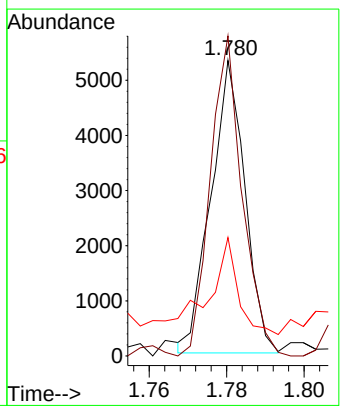


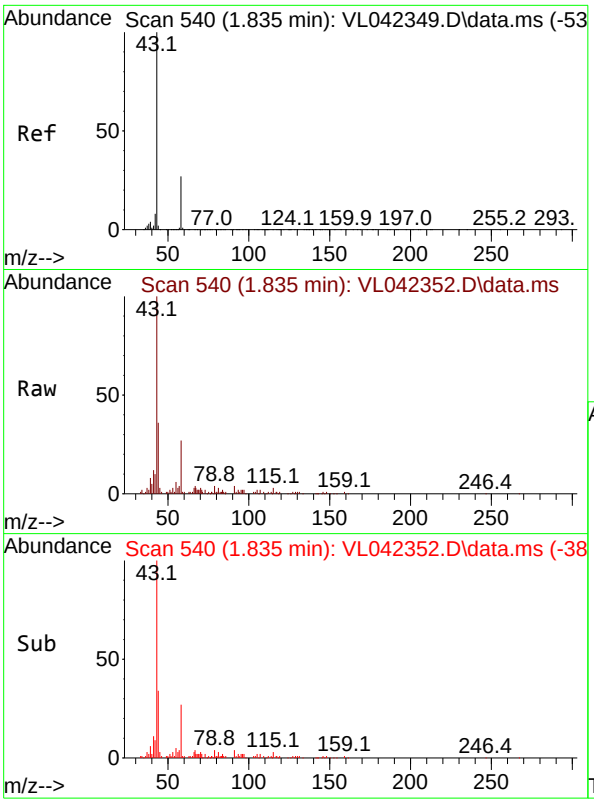


#14
Bromoethene
Concen: 0.519 ppbv
RT: 1.780 min Scan# 523
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion:108 Resp: 3238

Ion	Ratio	Lower	Upper
108	100		
106	110.3	85.9	128.9
79	33.0	13.9	20.9#



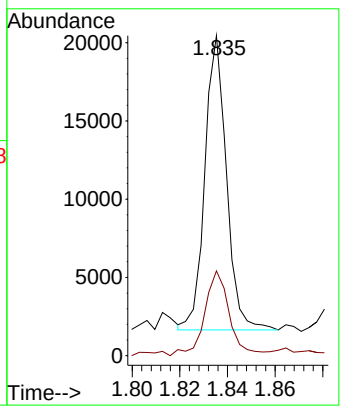


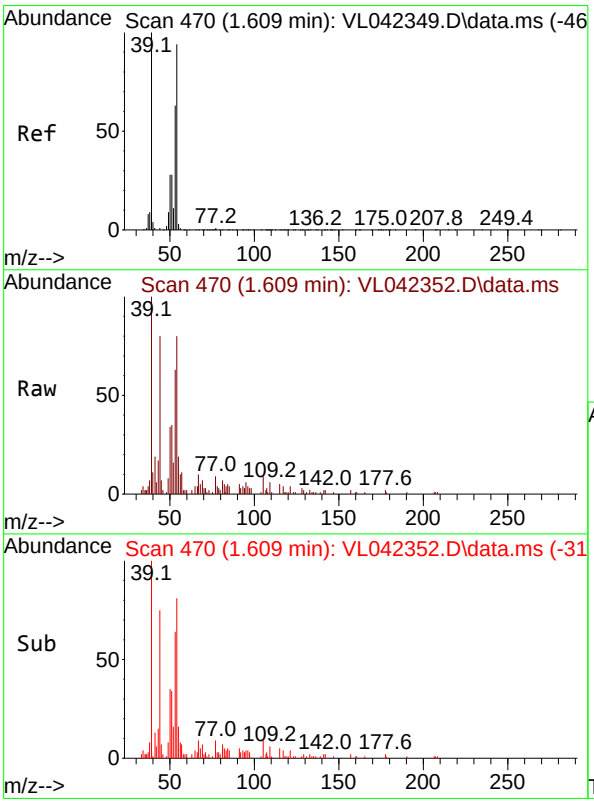
#15
Acetone
Concen: 0.601 ppbv
RT: 1.835 min Scan# 54
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 43 Resp: 11859

Ion	Ratio	Lower	Upper
43	100		
58	41.7	22.4	33.6#

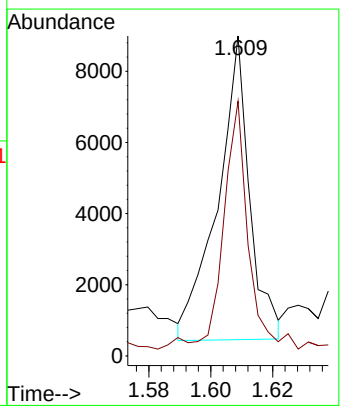


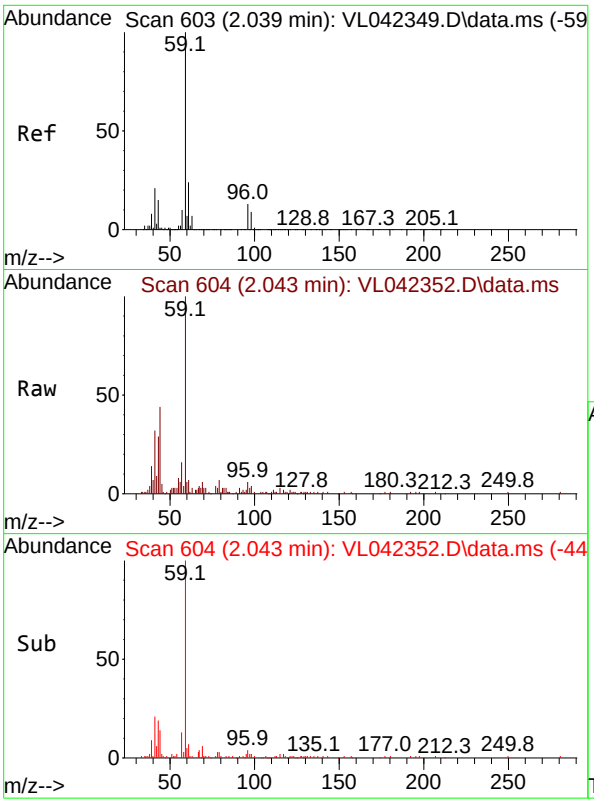


#16
1,3-Butadiene
Concen: 0.660 ppbv
RT: 1.609 min Scan# 470
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 39 Resp: 6120

Ion	Ratio	Lower	Upper
39	100		
54	64.7	64.9	97.3#



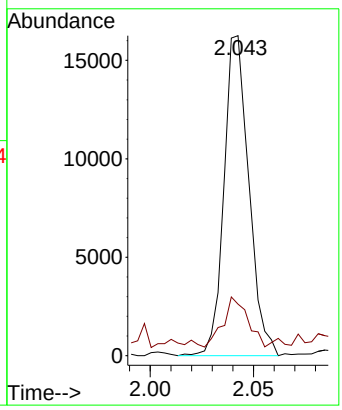


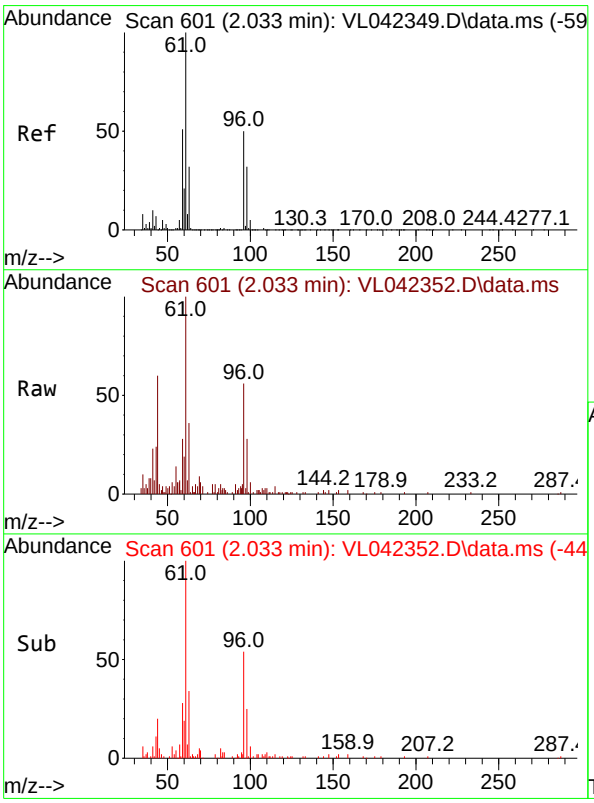
#17
tert-Butyl alcohol
Concen: 0.558 ppbv
RT: 2.043 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 59 Resp: 13640

Ion	Ratio	Lower	Upper
59	100		
57	16.5	8.7	13.1#

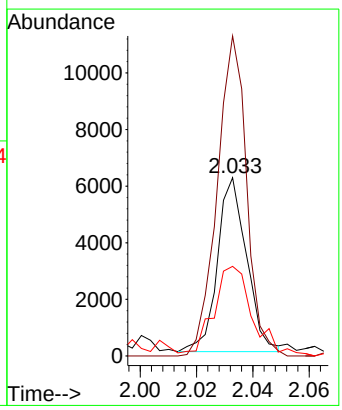


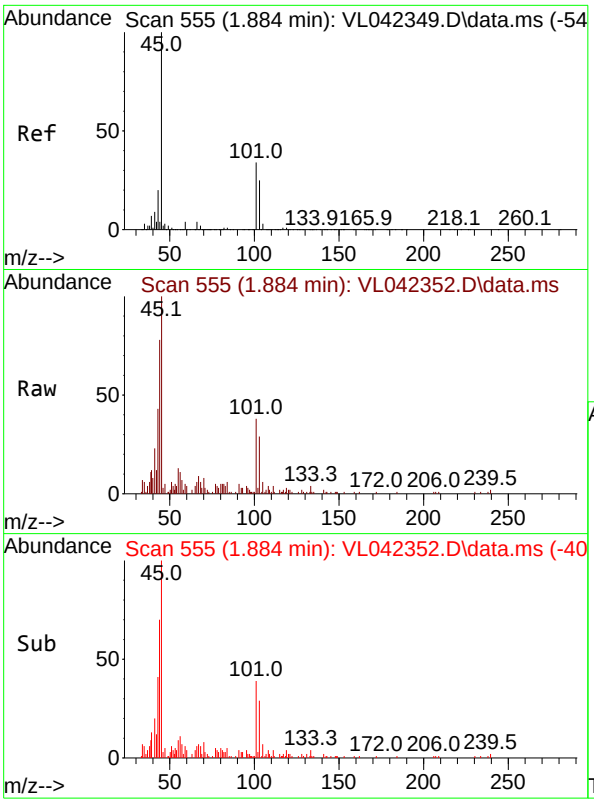


#18
1,1-Dichloroethene
Concen: 0.556 ppbv
RT: 2.033 min Scan# 601
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 96 Resp: 4430

Ion	Ratio	Lower	Upper
96	100		
61	183.9	160.2	240.2
98	49.7	51.0	76.4#



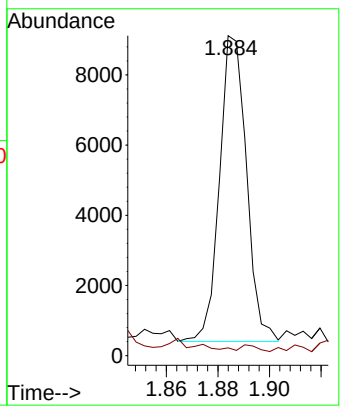


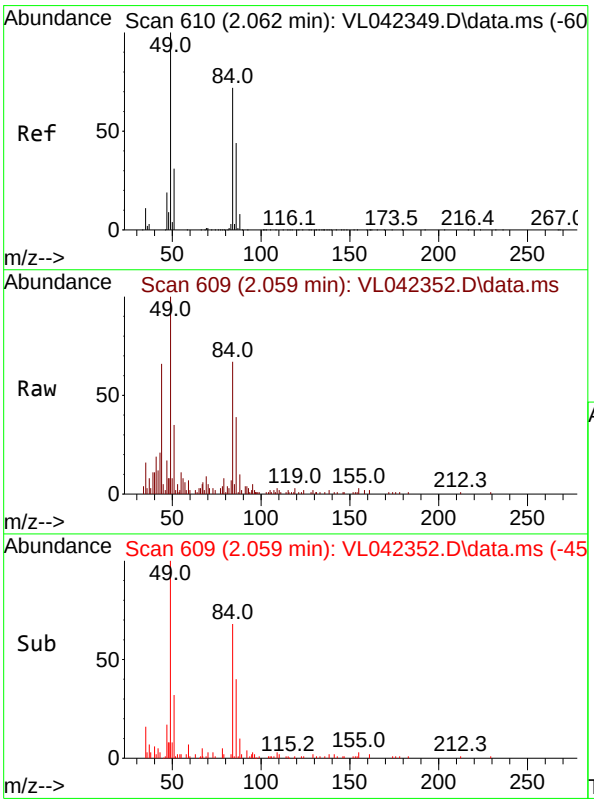
#19
Isopropyl Alcohol
Concen: 0.577 ppbv
RT: 1.884 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 45 Resp: 6327

Ion	Ratio	Lower	Upper
45	100		
58	3.8	34.5	51.7#

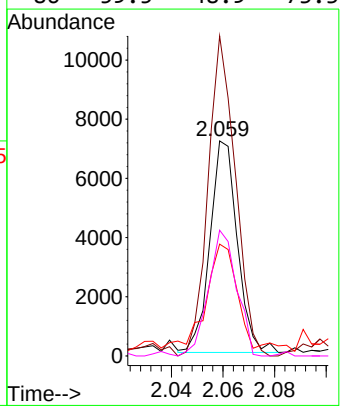


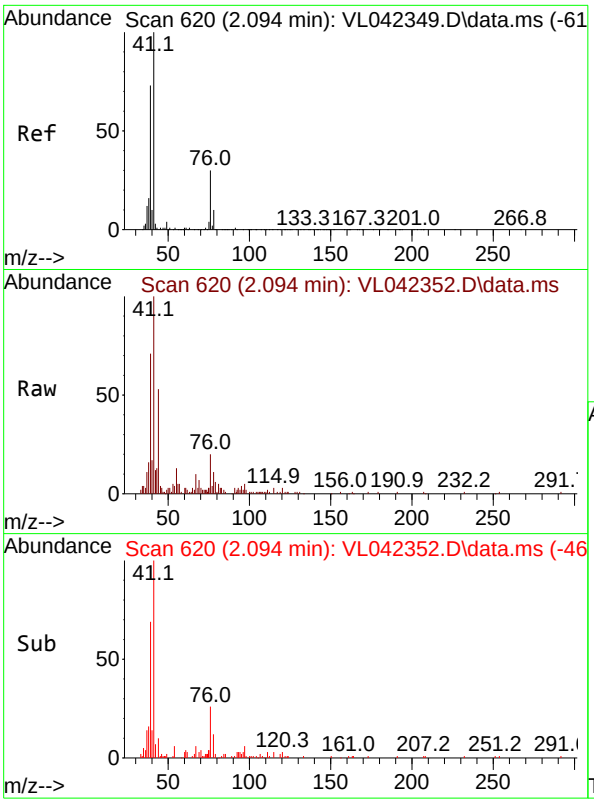


#20
Methylene Chloride
Concen: 0.682 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 84 Resp: 5273

Ion	Ratio	Lower	Upper
84	100		
49	151.3	111.6	167.4
51	48.1	35.1	52.7
86	59.5	48.9	73.3



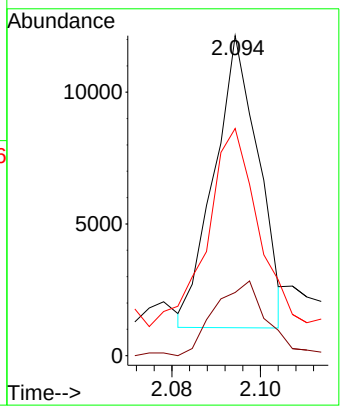


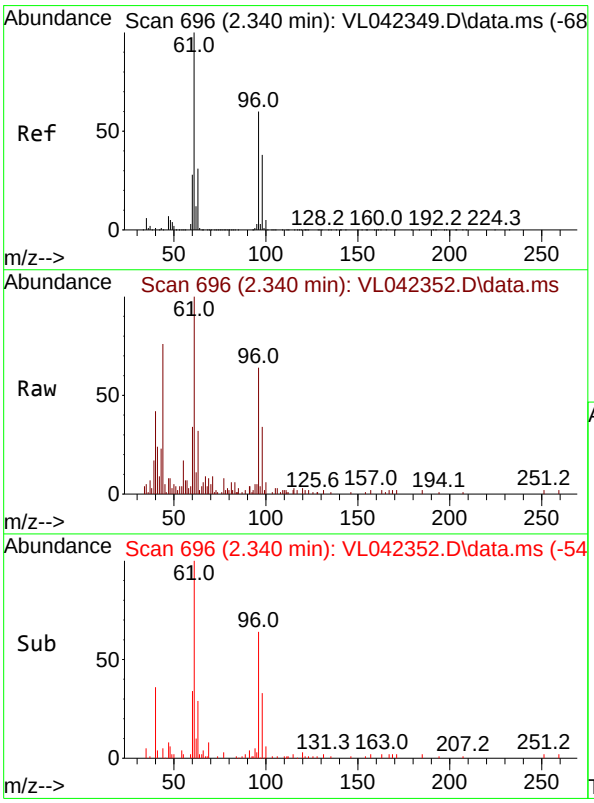
#21
Allyl Chloride
Concen: 0.565 ppbv
RT: 2.094 min Scan# 6
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 41 Resp: 7692

Ion	Ratio	Lower	Upper
41	100		
76	31.1	24.8	37.2
39	98.8	60.6	90.8#

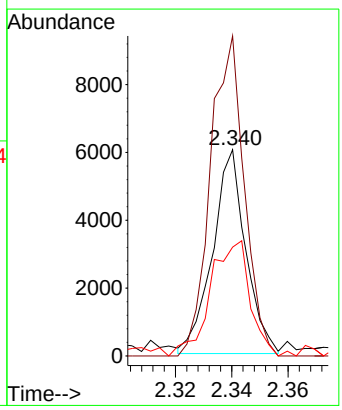


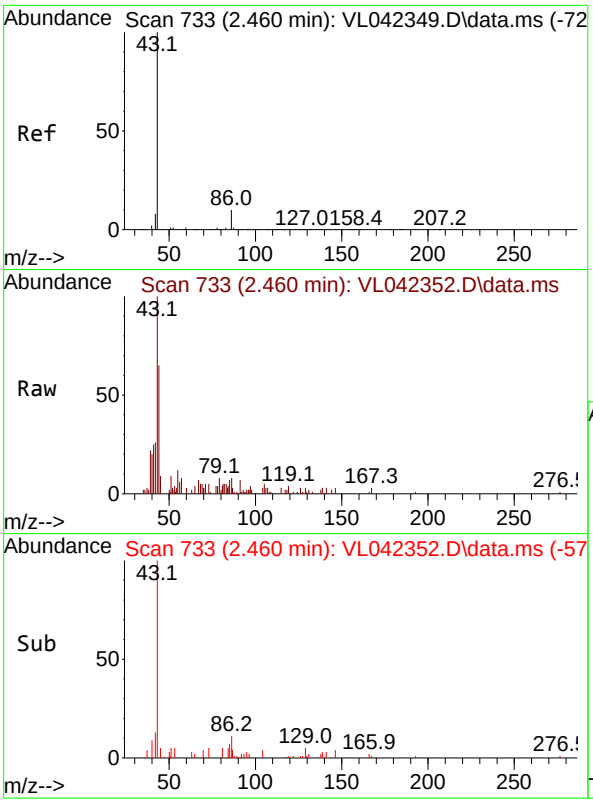


#22
trans-1,2-Dichloroethene
Concen: 0.557 ppbv
RT: 2.340 min Scan# 696
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 96 Resp: 4908

Ion	Ratio	Lower	Upper
96	100		
61	158.7	133.7	200.5
98	54.0	50.3	75.5



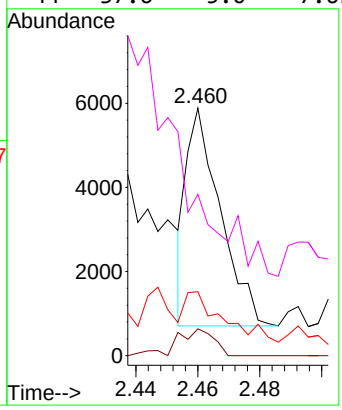


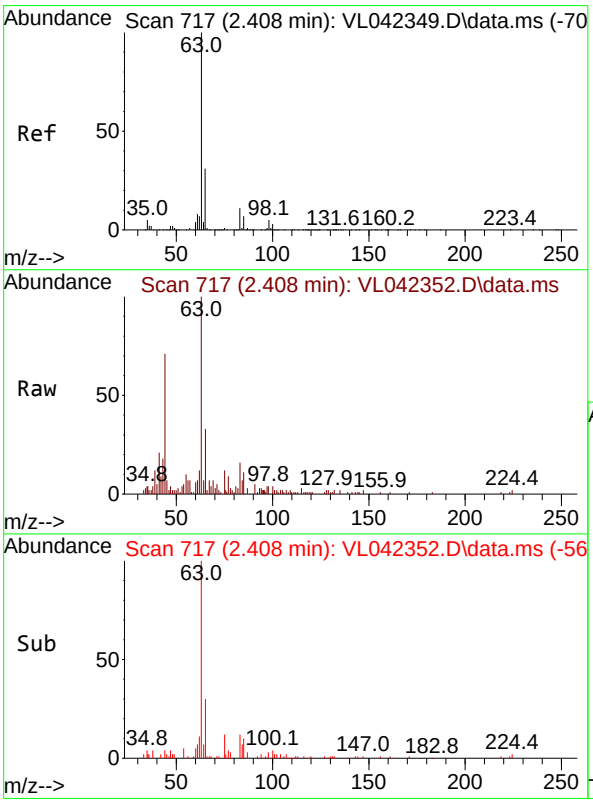
#23
Vinyl Acetate
Concen: 0.495 ppbv
RT: 2.460 min Scan# 7
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 43 Resp: 3953

Ion	Ratio	Lower	Upper
43	100		
86	12.4	6.5	9.7#
42	23.2	7.8	11.8#
44	37.6	5.0	7.6#

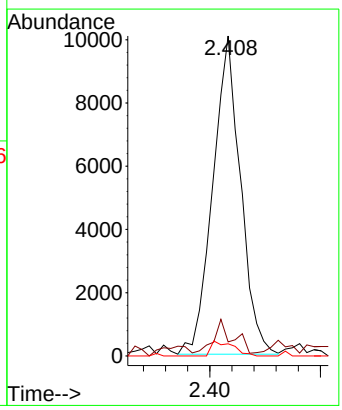


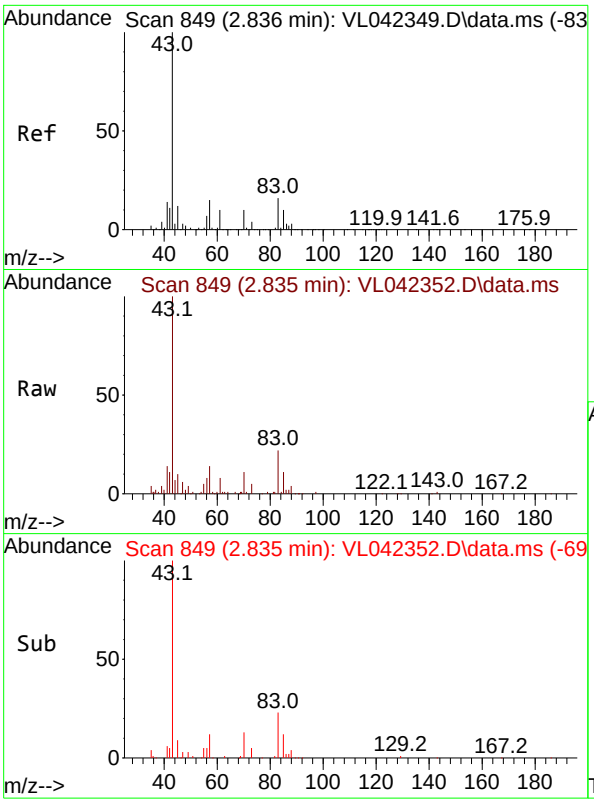


#24
1,1-Dichloroethane
Concen: 0.523 ppbv
RT: 2.408 min Scan# 717
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 63 Resp: 8753

Ion	Ratio	Lower	Upper
63	100		
98	1.4	2.3	6.8#
100	3.8	1.6	4.8



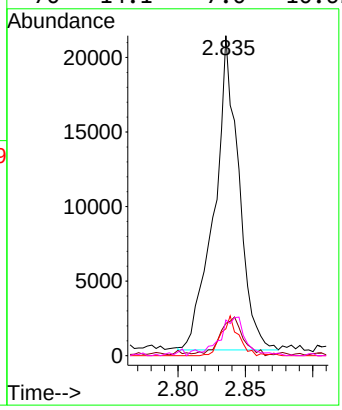


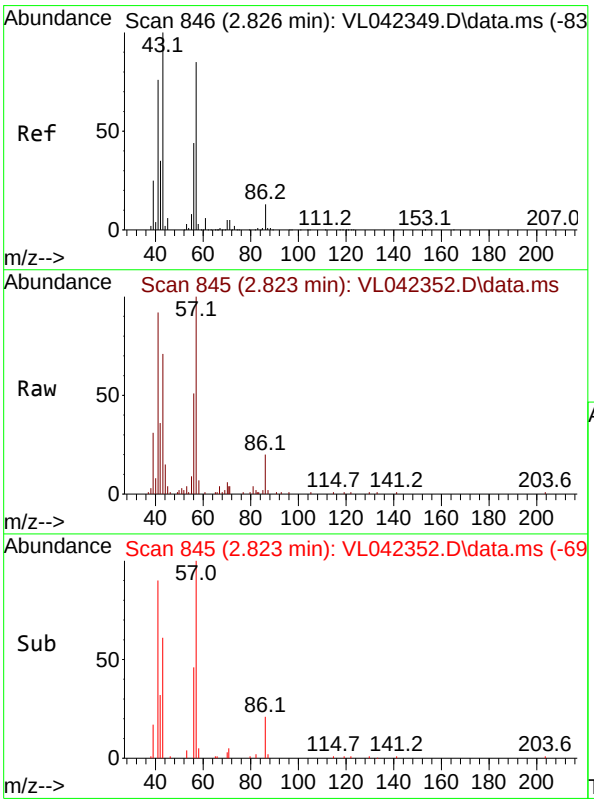
#25
Ethyl Acetate
Concen: 0.548 ppbv
RT: 2.835 min Scan# 84
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 43 Resp: 26686

Ion	Ratio	Lower	Upper
43	100		
45	13.3	8.3	12.5#
61	9.0	7.3	10.9
70	14.1	7.0	10.6#

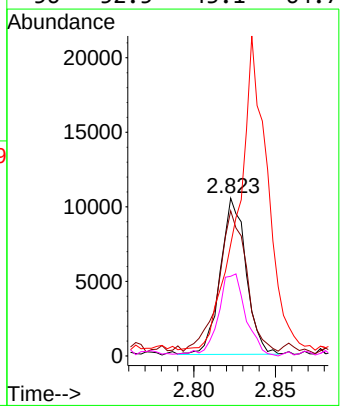


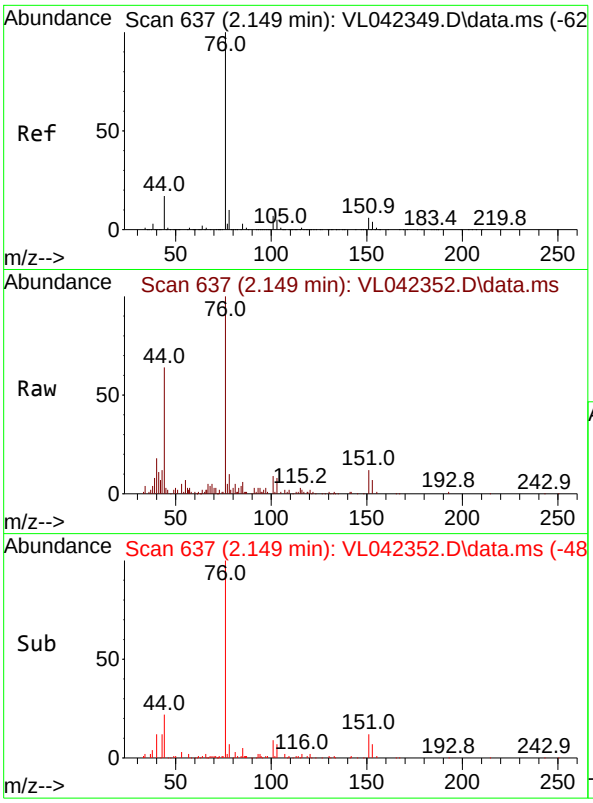


#26
Hexane
Concen: 0.581 ppbv
RT: 2.823 min Scan# 845
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 57 Resp: 11448

Ion	Ratio	Lower	Upper
57	100		
41	103.5	77.9	116.9
43	240.0	208.4	312.6
56	52.5	43.1	64.7



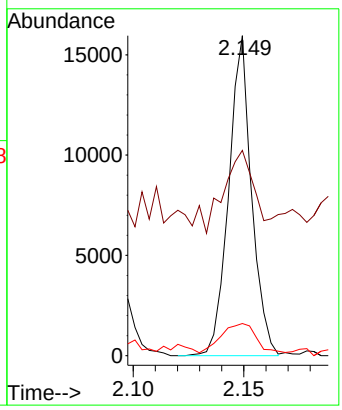


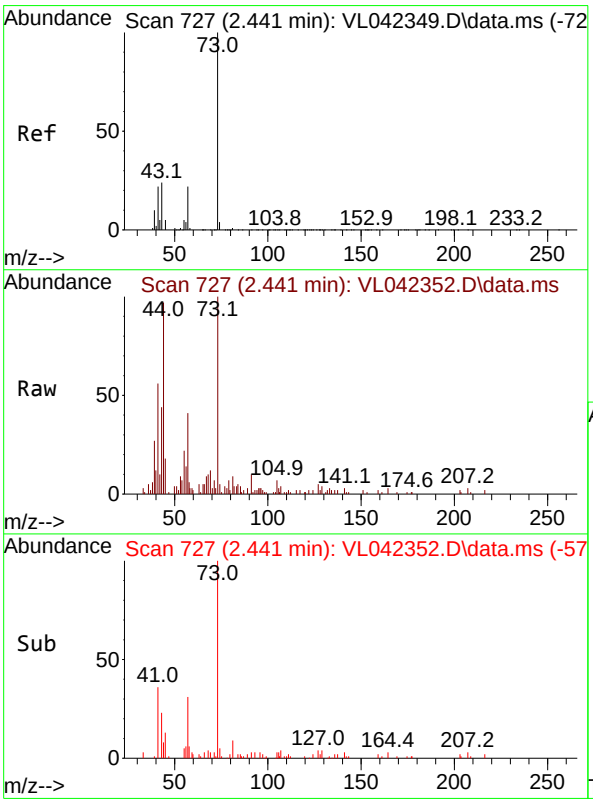
#27
Carbon Disulfide
Concen: 0.544 ppbv
RT: 2.149 min Scan# 6
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 76 Resp: 11472

Ion	Ratio	Lower	Upper
76	100		
44	123.7	15.5	23.3#
78	18.8	9.3	13.9#

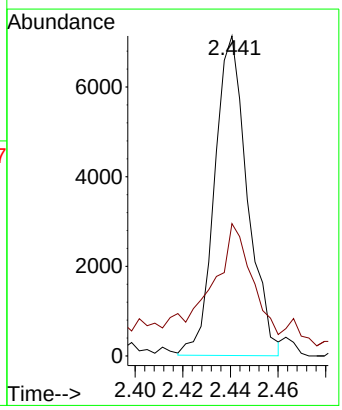


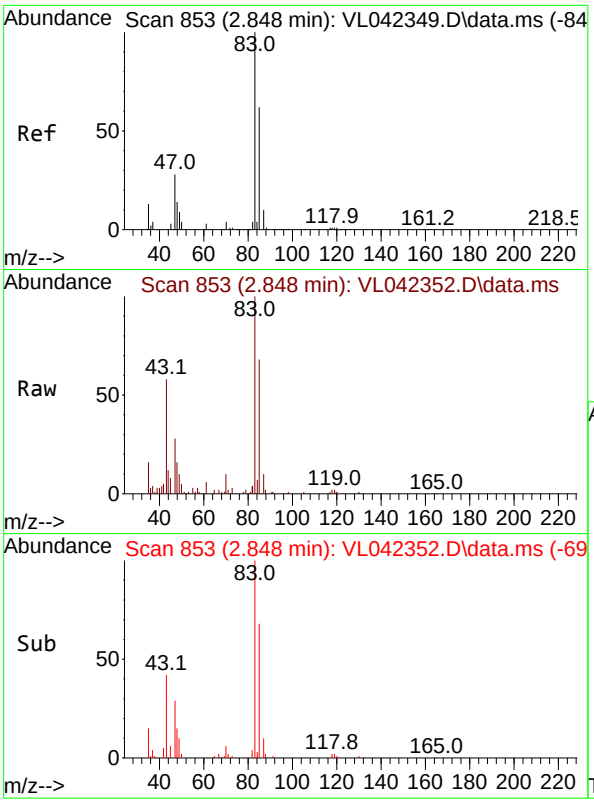


#28
Methyl tert-Butyl Ether
Concen: 0.530 ppbv
RT: 2.441 min Scan# 727
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 73 Resp: 6833

Ion	Ratio	Lower	Upper
73	100		
57	61.8	21.3	31.9#



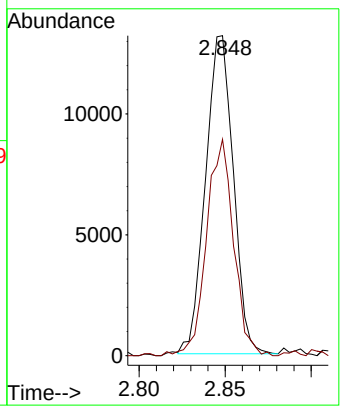


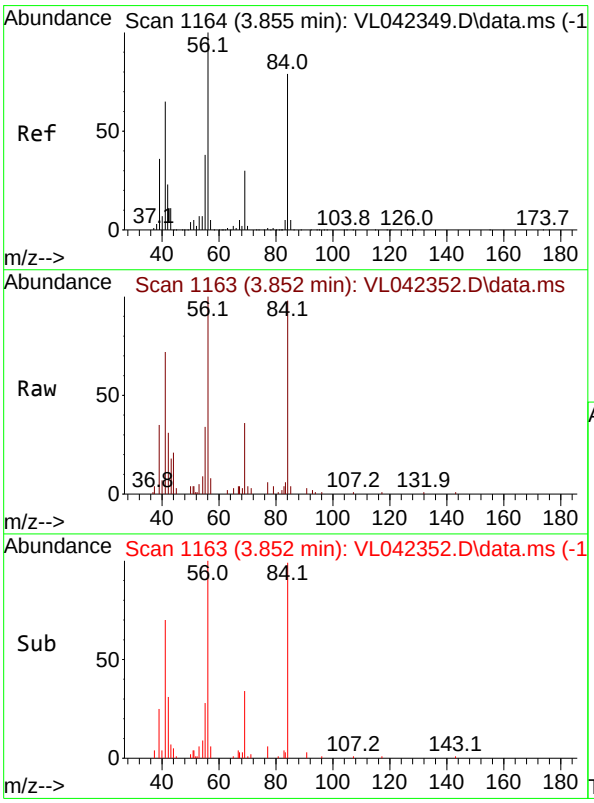
#29
Chloroform
Concen: 0.532 ppbv
RT: 2.848 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 83 Resp: 14815

Ion	Ratio	Lower	Upper
83	100		
85	68.0	50.0	75.0

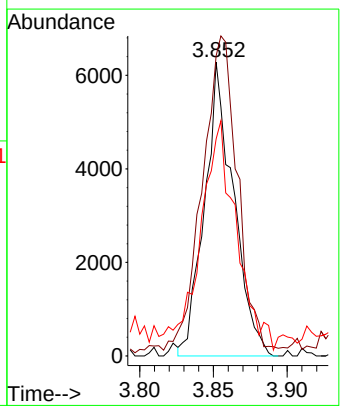


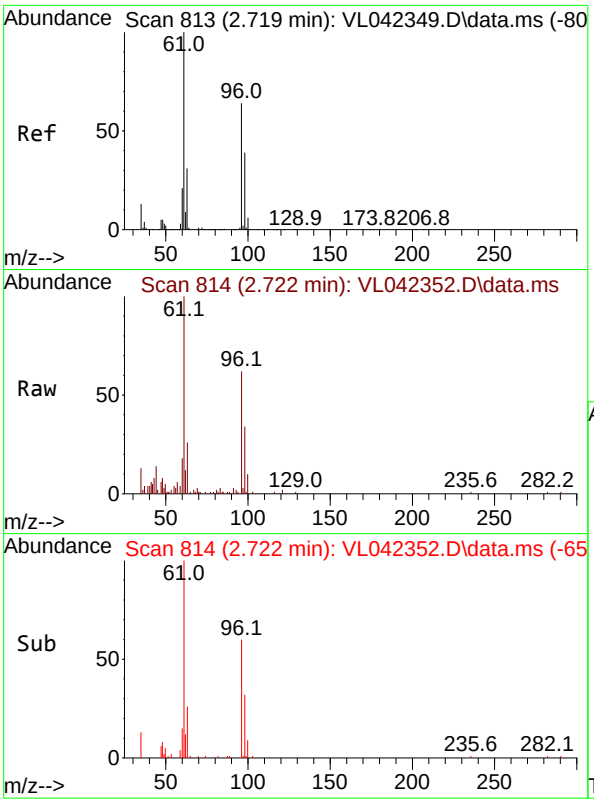


#30
Cyclohexane
Concen: 0.541 ppbv
RT: 3.852 min Scan# 1163
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 84 Resp: 8572

Ion	Ratio	Lower	Upper
84	100		
56	132.8	101.0	151.4
41	89.8	67.4	101.0



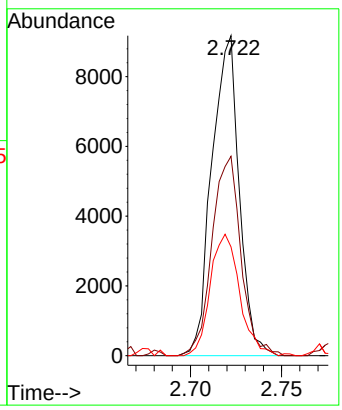


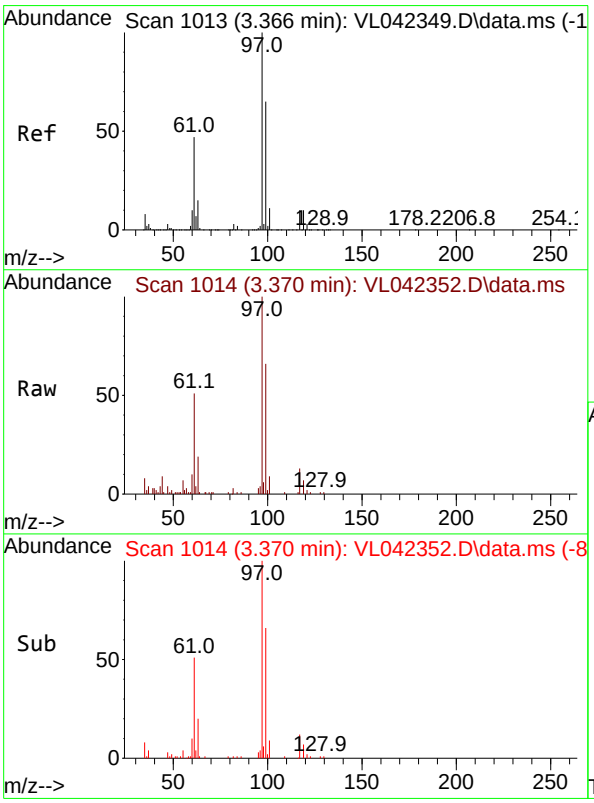
#31
cis-1,2-Dichloroethene
Concen: 0.511 ppbv
RT: 2.722 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 61 Resp: 9571

Ion	Ratio	Lower	Upper
61	100		
96	62.3	50.8	76.2
98	34.0	30.9	46.3

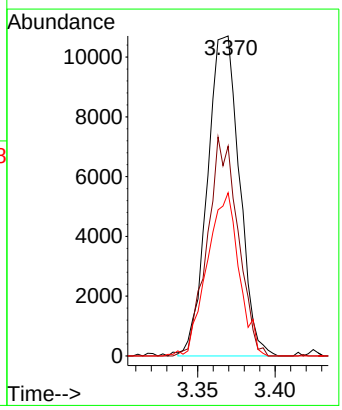


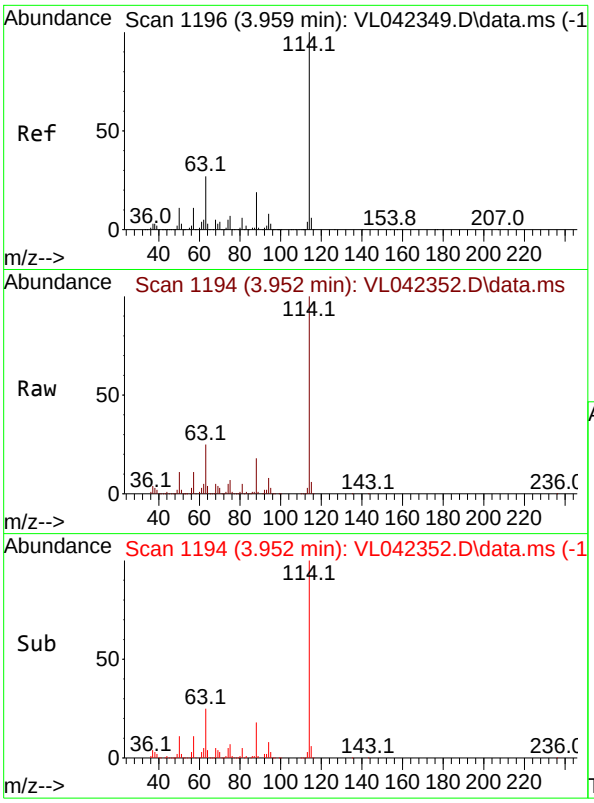


#32
1,1,1-Trichloroethane
Concen: 0.516 ppbv
RT: 3.370 min Scan# 1014
Delta R.T. 0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 97 Resp: 15413

Ion	Ratio	Lower	Upper
97	100		
99	65.6	51.0	76.4
61	50.8	38.8	58.2



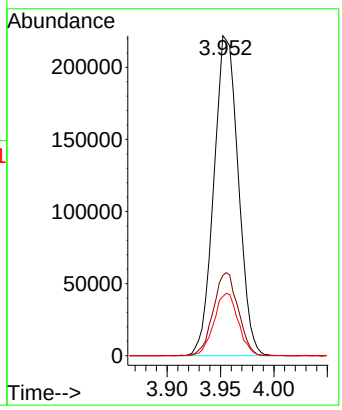


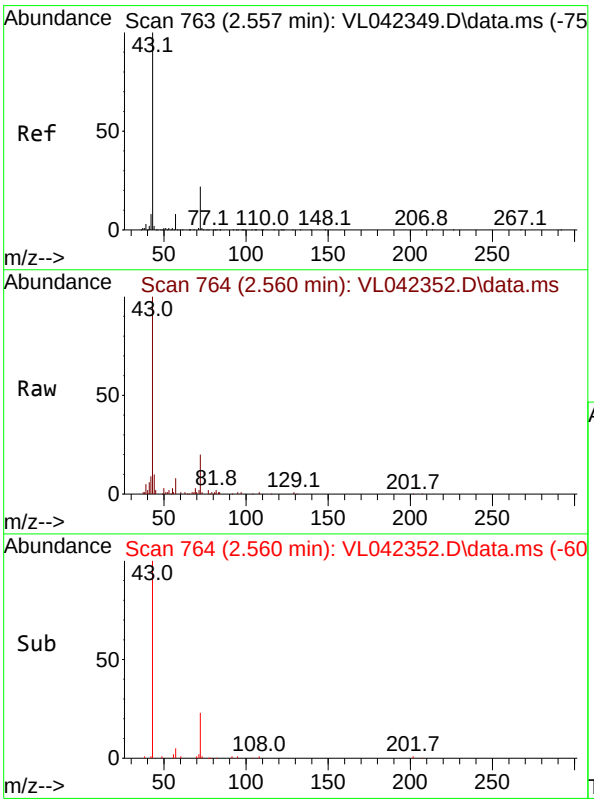
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.952 min Scan# 11
Delta R.T. -0.006 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion:114 Resp: 353137

Ion	Ratio	Lower	Upper
114	100		
63	26.3	21.8	32.6
88	19.4	15.5	23.3

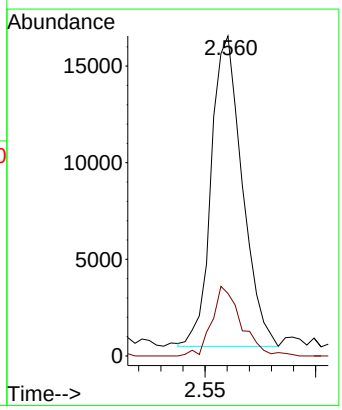


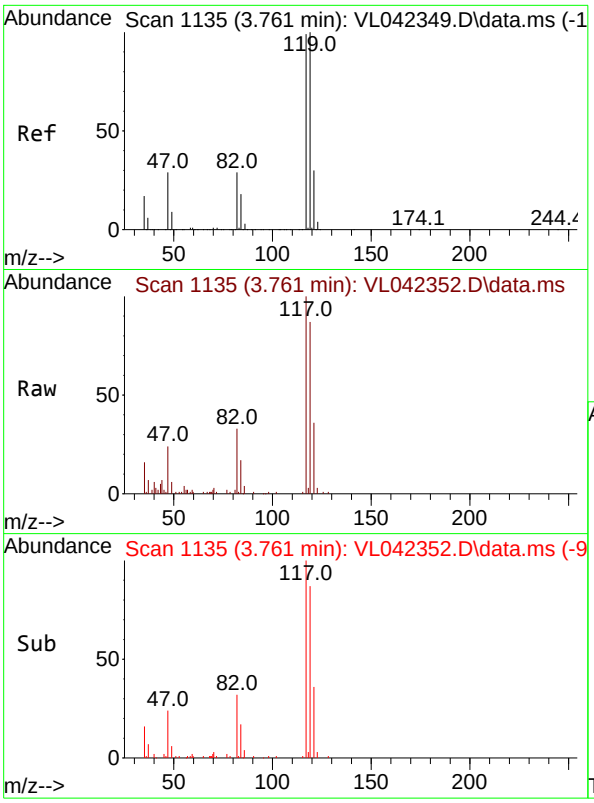


#34
2-Butanone
Concen: 0.560 ppbv
RT: 2.560 min Scan# 764
Delta R.T. 0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 43 Resp: 15640

Ion	Ratio	Lower	Upper
43	100		
72	21.3	18.2	27.2



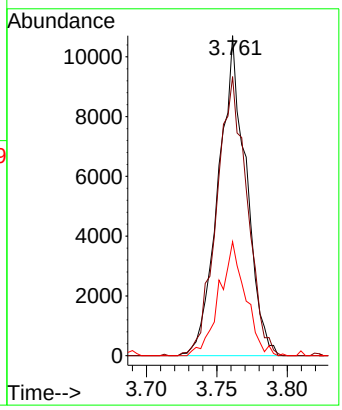


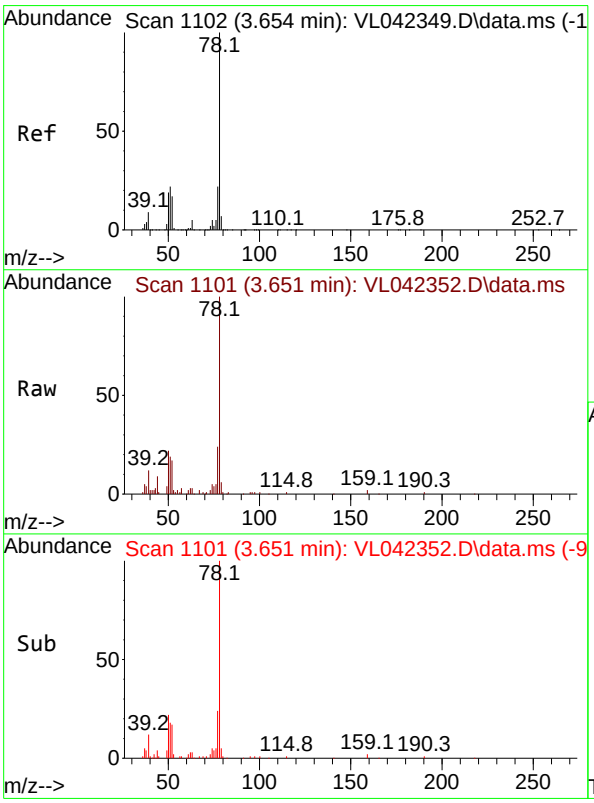
#35
Carbon Tetrachloride
Concen: 0.459 ppbv
RT: 3.761 min Scan# 1
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion:117 Resp: 14683

Ion	Ratio	Lower	Upper
117	100		
119	87.2	80.5	120.7
121	35.6	24.2	36.2

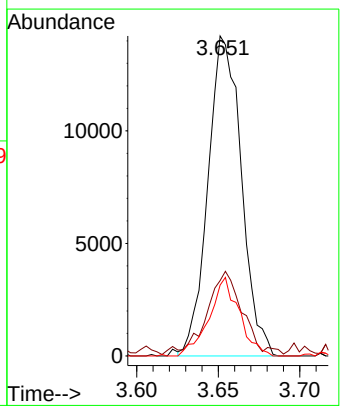


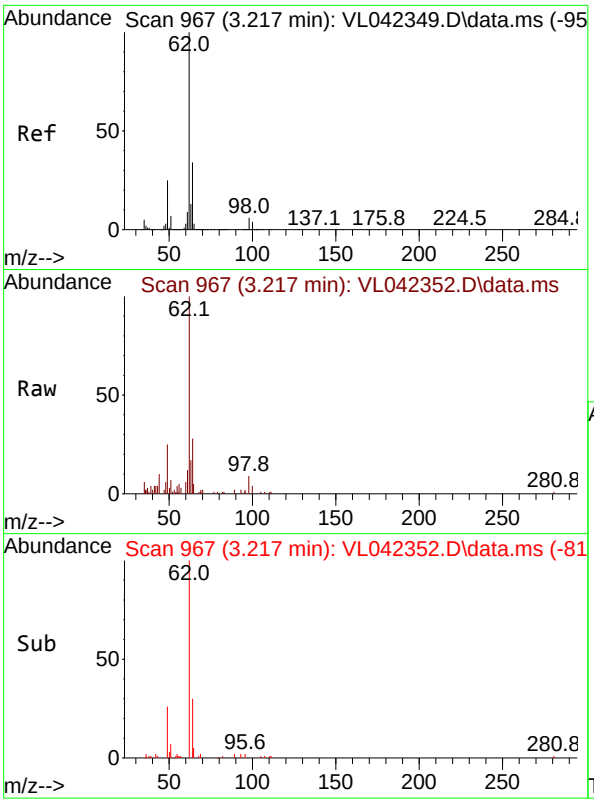


#36
Benzene
Concen: 0.531 ppbv
RT: 3.651 min Scan# 1101
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 78 Resp: 20233

Ion	Ratio	Lower	Upper
78	100		
77	21.7	17.4	26.0
50	22.1	15.5	23.3



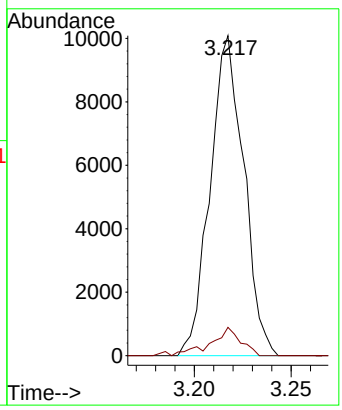


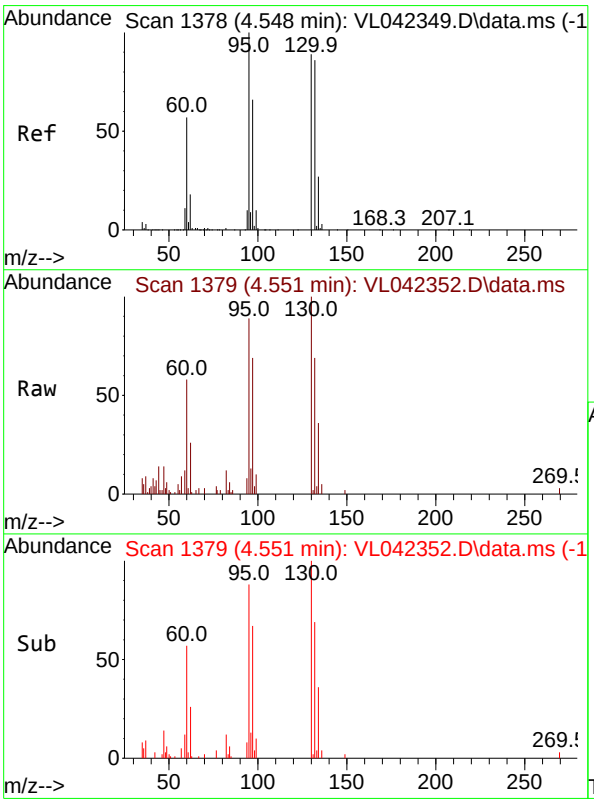
#37
1,2-Dichloroethane
Concen: 0.533 ppbv
RT: 3.217 min Scan# 9
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 62 Resp: 12194

Ion	Ratio	Lower	Upper
62	100		
98	8.1	5.1	7.7#

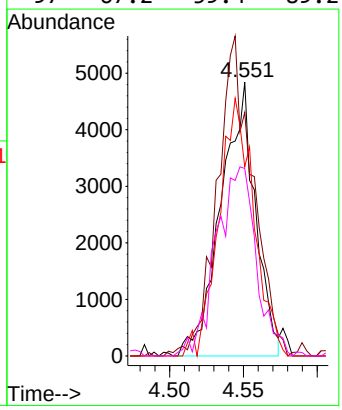


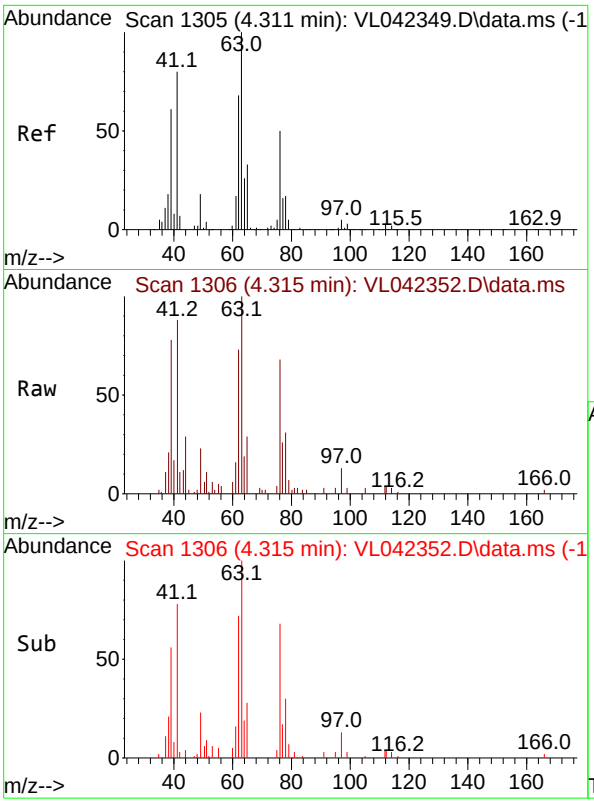


#38
Trichloroethene
Concen: 0.468 ppbv
RT: 4.551 min Scan# 1379
Delta R.T. 0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion:130 Resp: 7819

Ion	Ratio	Lower	Upper
130	100		
95	86.2	89.8	134.6#
132	69.1	77.7	116.5#
97	67.2	59.4	89.2



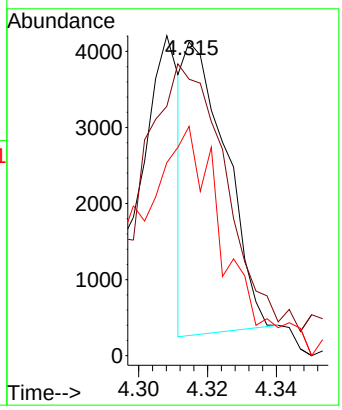


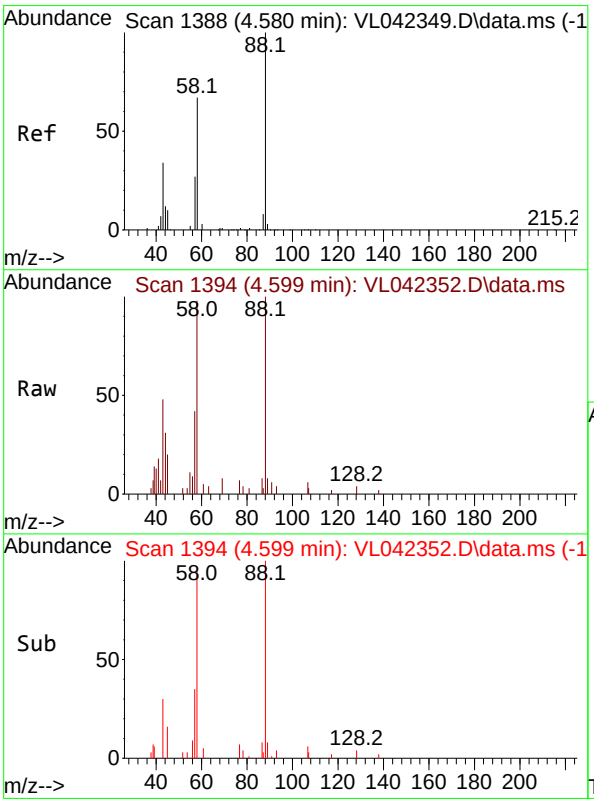
#39
1,2-Dichloropropane
Concen: 0.225 ppbv
RT: 4.315 min Scan# 1
Delta R.T. 0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 63 Resp: 3195

Ion	Ratio	Lower	Upper
63	100		
41	90.7	64.2	96.2
62	75.2	54.3	81.5

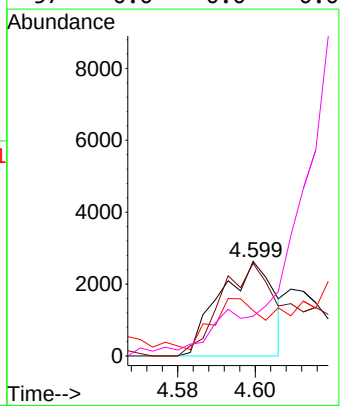


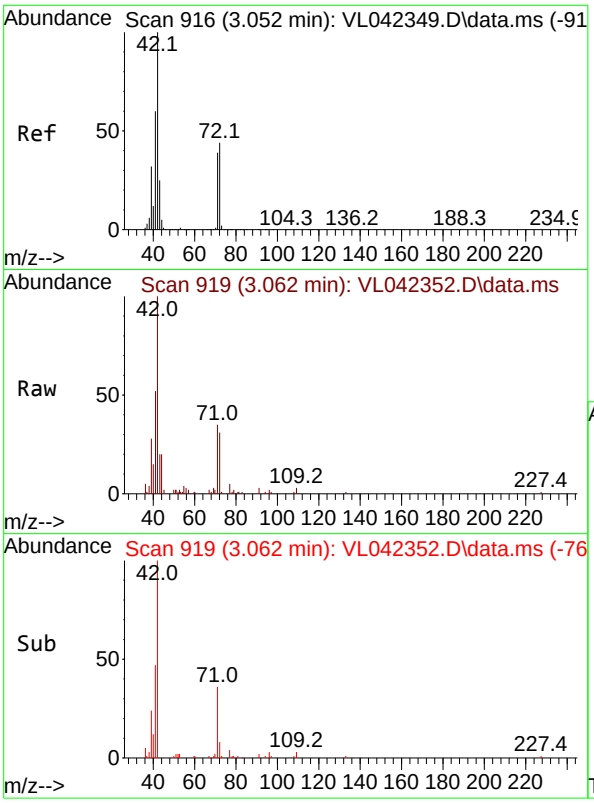


#40
1,4-Dioxane
Concen: 0.331 ppbv
RT: 4.599 min Scan# 1394
Delta R.T. 0.019 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 88 Resp: 2550

Ion	Ratio	Lower	Upper
88	100		
58	214.8	61.4	92.0#
43	0.0	23.2	34.8#
57	0.0	0.0	0.0



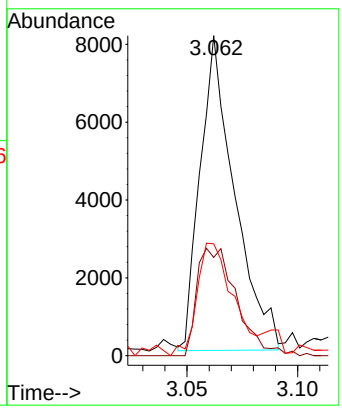


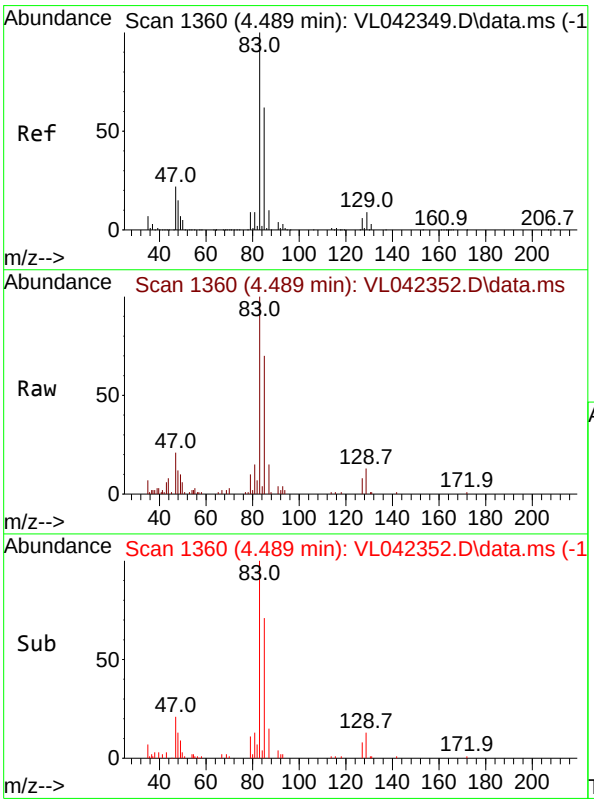
#41
Tetrahydrofuran
Concen: 0.544 ppbv
RT: 3.062 min Scan# 91
Delta R.T. 0.010 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 42 Resp: 8773

Ion	Ratio	Lower	Upper
42	100		
72	39.3	32.3	48.5
71	44.9	31.4	47.2

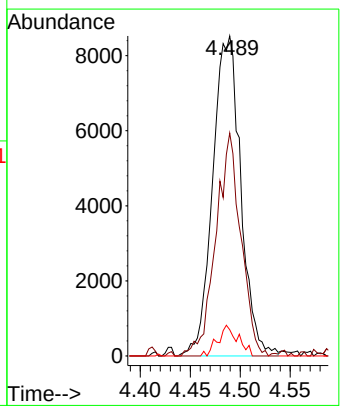


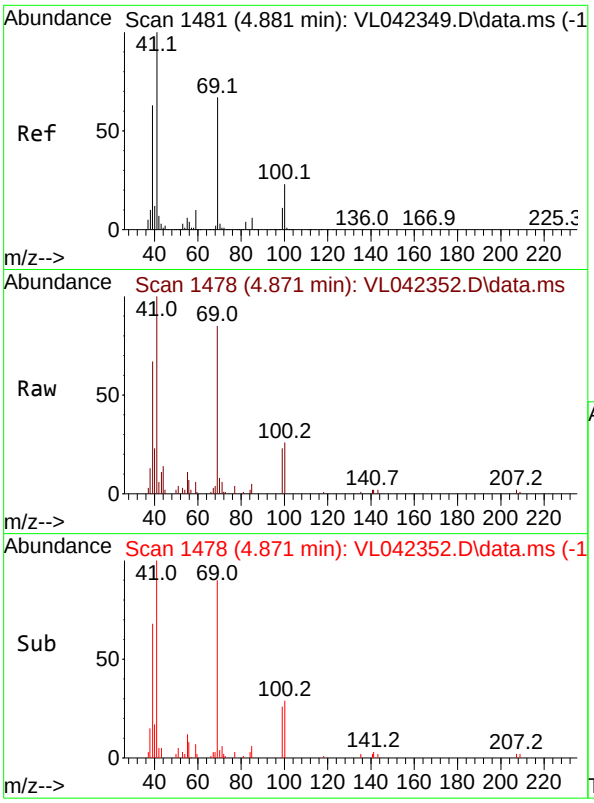


#42
Bromodichloromethane
Concen: 0.523 ppbv
RT: 4.489 min Scan# 1360
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 83 Resp: 16642

Ion	Ratio	Lower	Upper
83	100		
85	69.6	49.7	74.5
127	8.2	5.1	7.7#



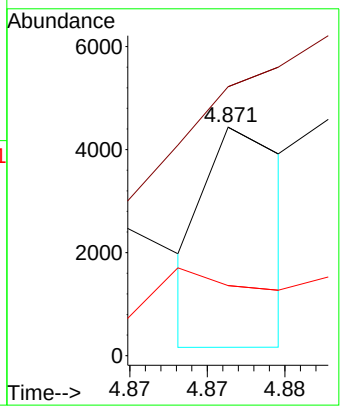


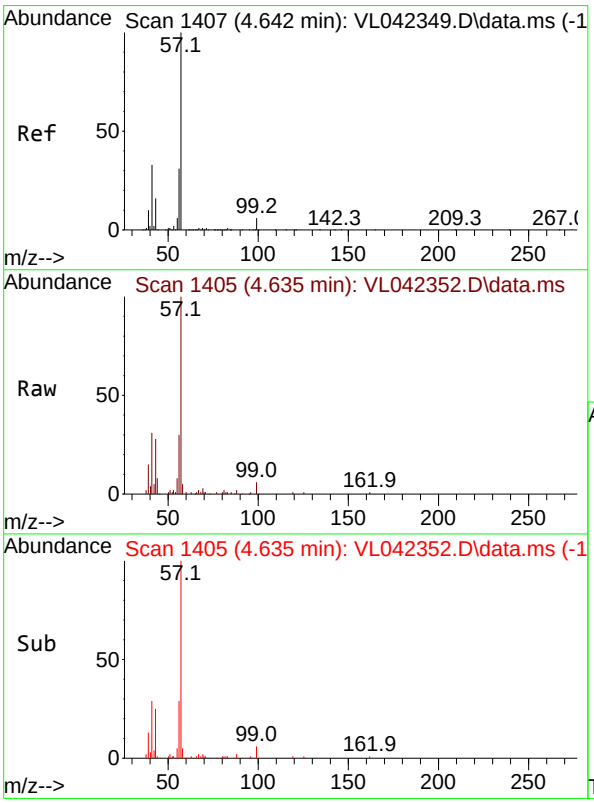
#43
Methyl Methacrylate
Concen: 0.091 ppbv
RT: 4.871 min Scan# 14
Delta R.T. -0.010 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 69 Resp: 1556

Ion	Ratio	Lower	Upper
69	100		
41	0.0	118.6	177.8#
100	0.0	28.2	42.2#

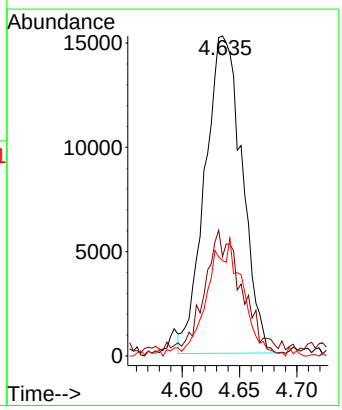


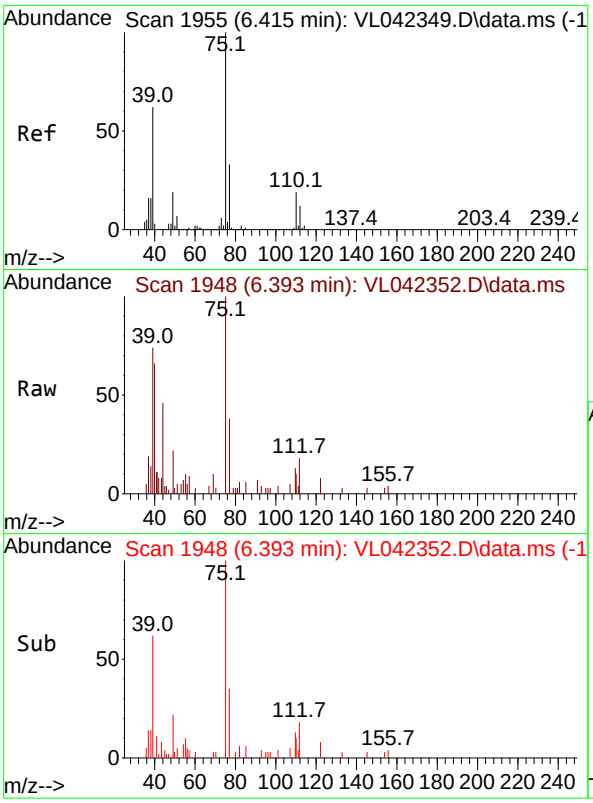


#44
2,2,4-Trimethylpentane
Concen: 0.519 ppbv
RT: 4.635 min Scan# 1405
Delta R.T. -0.006 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 57 Resp: 34170

Ion	Ratio	Lower	Upper
57	100		
41	39.1	27.2	40.8
56	37.1	25.7	38.5



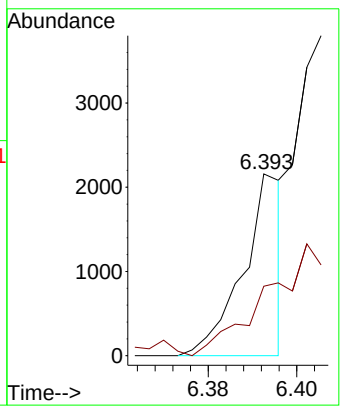


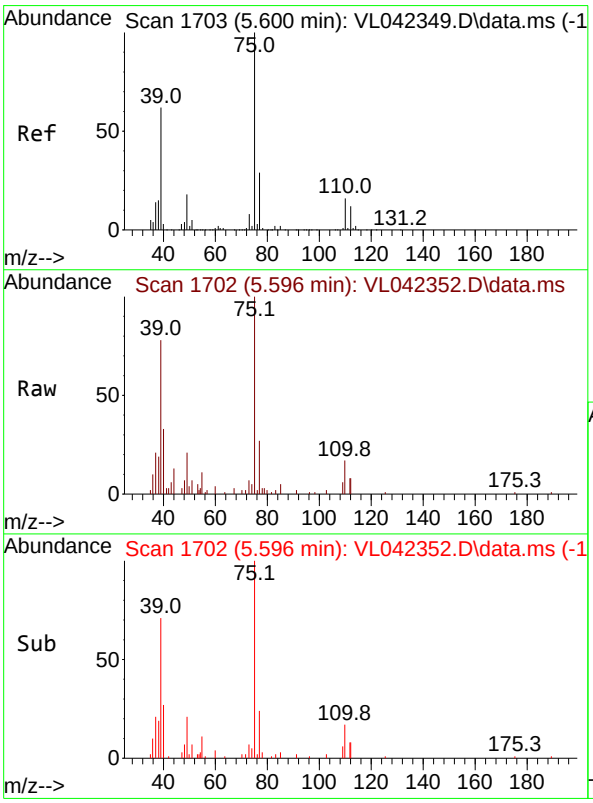
#45
t-1,3-Dichloropropene
Concen: 0.076 ppbv
RT: 6.393 min Scan# 1
Delta R.T. -0.023 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 75 Resp: 1332

Ion	Ratio	Lower	Upper
75	100		
77	38.2	27.0	40.6

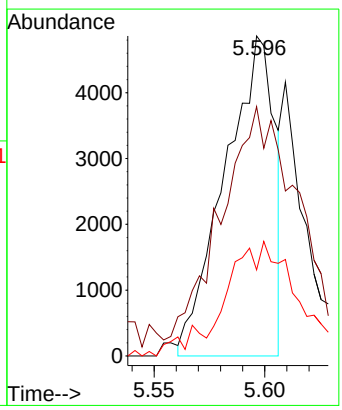


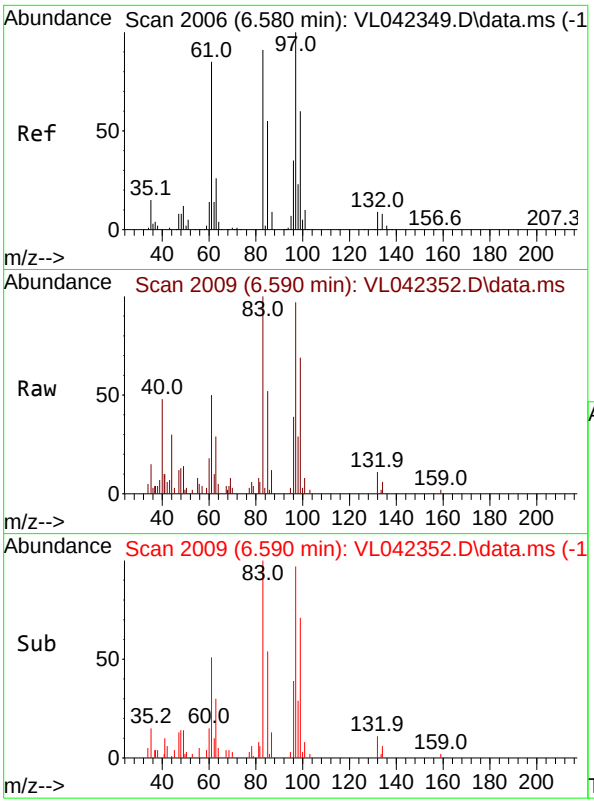


#46
cis-1,3-Dichloropropene
Concen: 0.356 ppbv
RT: 5.596 min Scan# 1702
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 75 Resp: 7634

Ion	Ratio	Lower	Upper
75	100		
39	67.9	50.0	75.0
77	21.6	23.0	34.6#



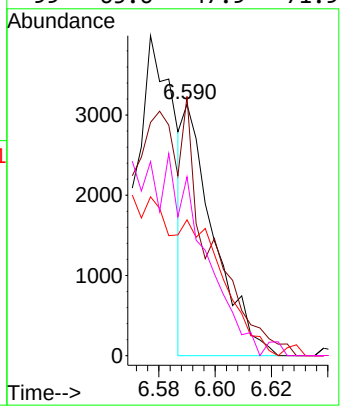


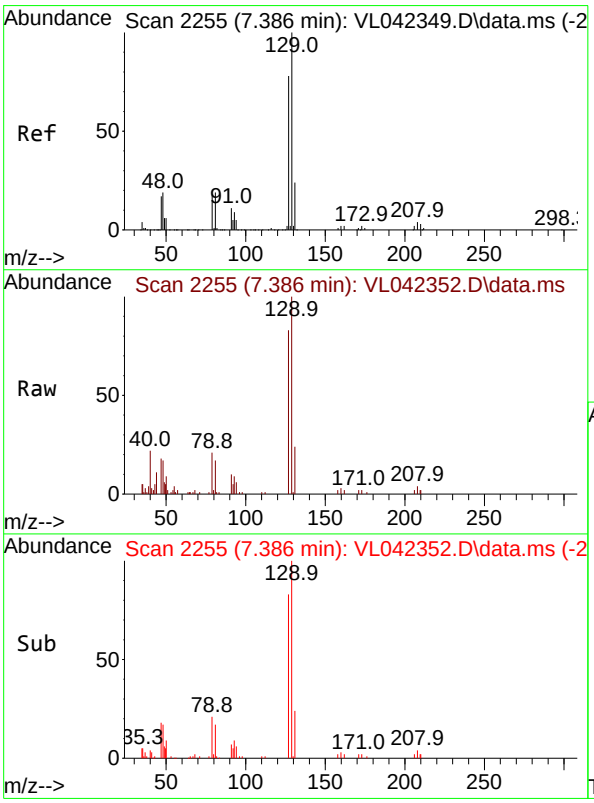
#47
1,1,2-Trichloroethane
Concen: 0.164 ppbv
RT: 6.590 min Scan# 2
Delta R.T. 0.010 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 97 Resp: 2374

Ion	Ratio	Lower	Upper
97	100		
83	98.5	72.8	109.2
85	54.0	44.2	66.4
99	65.6	47.9	71.9

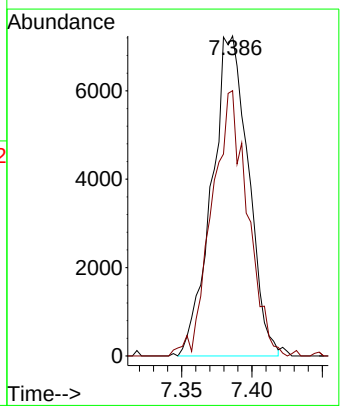


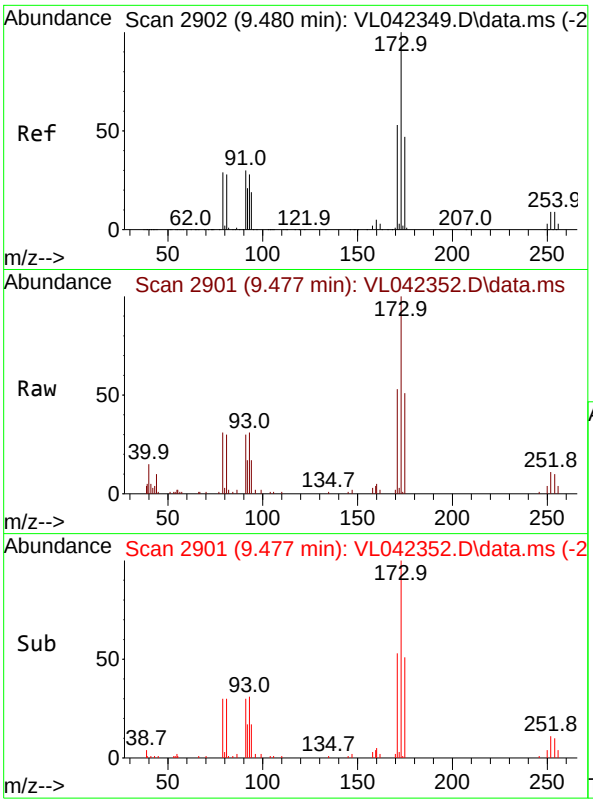


#48
Dibromochloromethane
Concen: 0.514 ppbv
RT: 7.386 min Scan# 2255
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion:129 Resp: 13122

Ion	Ratio	Lower	Upper
129	100		
127	80.9	39.1	117.3



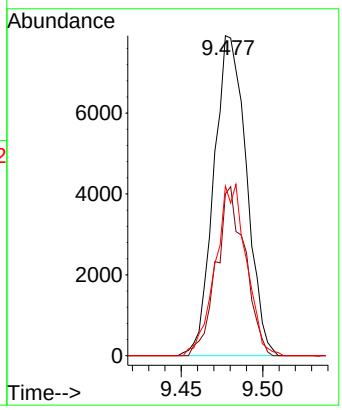


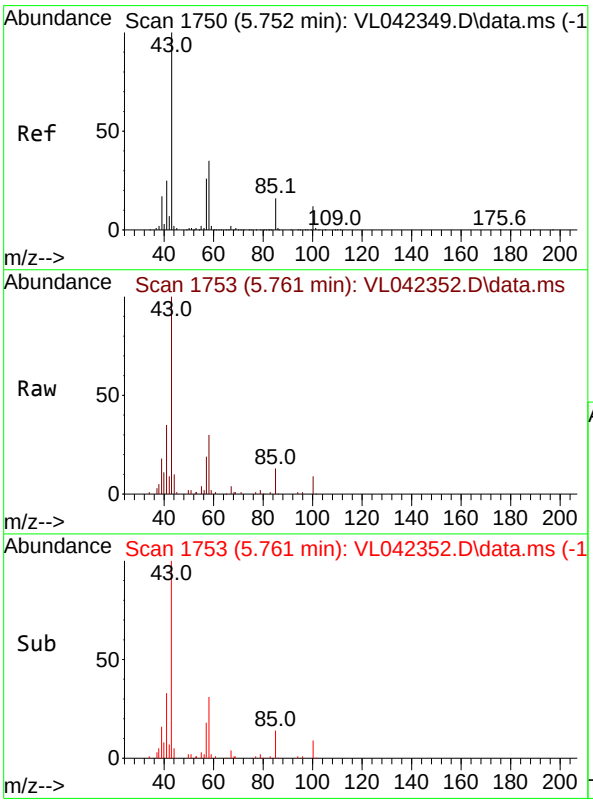
#49
Bromoform
Concen: 0.492 ppbv
RT: 9.477 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion:173 Resp: 10988

Ion	Ratio	Lower	Upper
173	100		
175	46.8	38.2	57.2
171	51.2	40.9	61.3

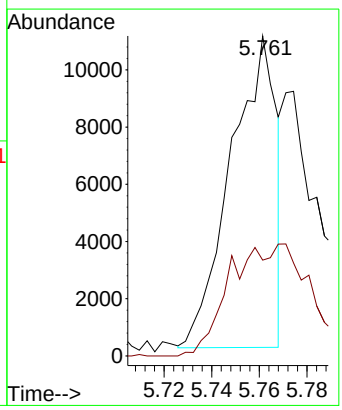


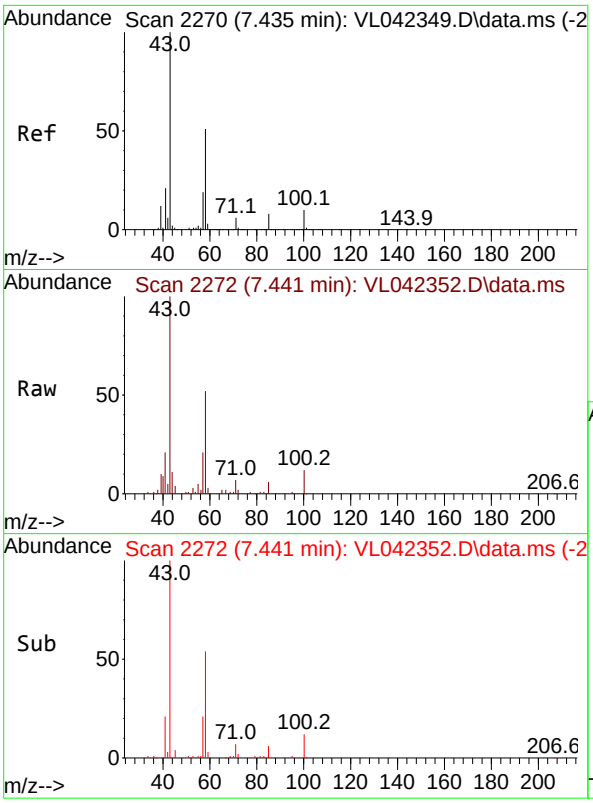


#50
4-Methyl-2-Pentanone
Concen: 0.309 ppbv
RT: 5.761 min Scan# 1753
Delta R.T. 0.010 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 43 Resp: 14380

Ion	Ratio	Lower	Upper
43	100		
58	0.0	28.6	43.0#



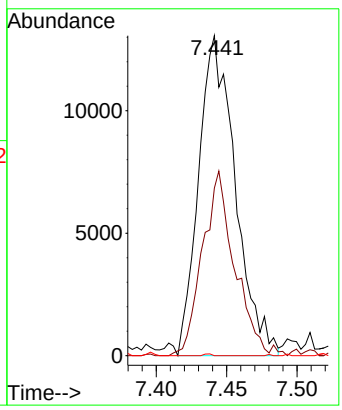


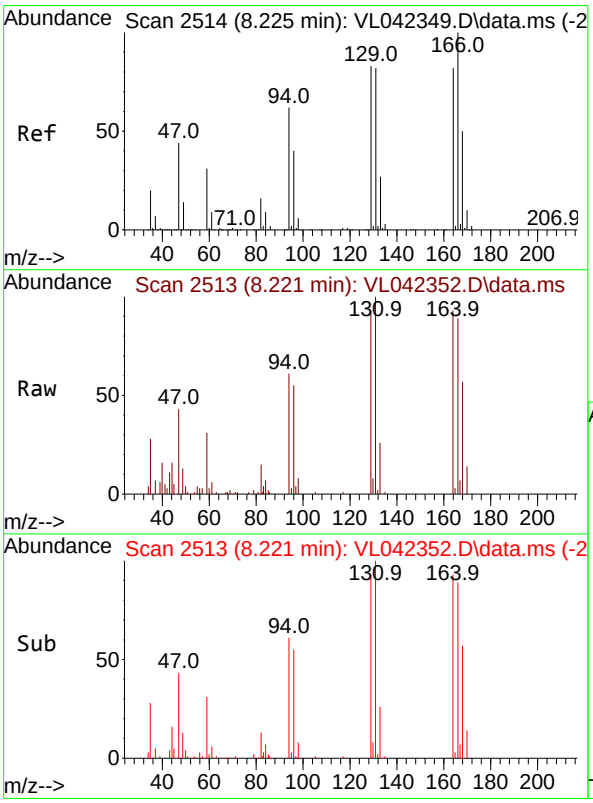
#51
2-Hexanone
Concen: 0.564 ppbv
RT: 7.441 min Scan# 2
Delta R.T. 0.006 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 43 Resp: 23684

Ion	Ratio	Lower	Upper
43	100		
58	51.7	40.2	60.4
98	0.1	0.1	0.1

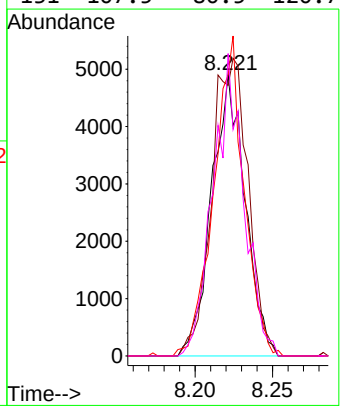


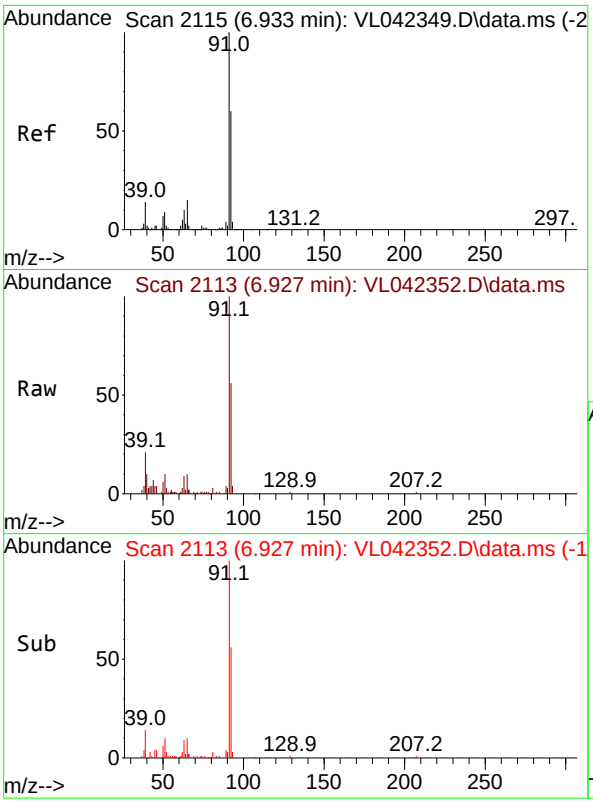


#52
Tetrachloroethene
Concen: 0.503 ppbv
RT: 8.221 min Scan# 2513
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion:164 Resp: 7412

Ion	Ratio	Lower	Upper
164	100		
166	96.1	98.2	147.2#
129	97.8	81.8	122.8
131	107.5	80.5	120.7



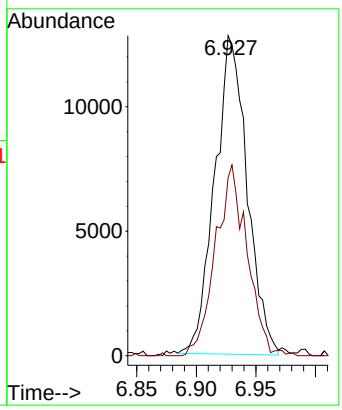


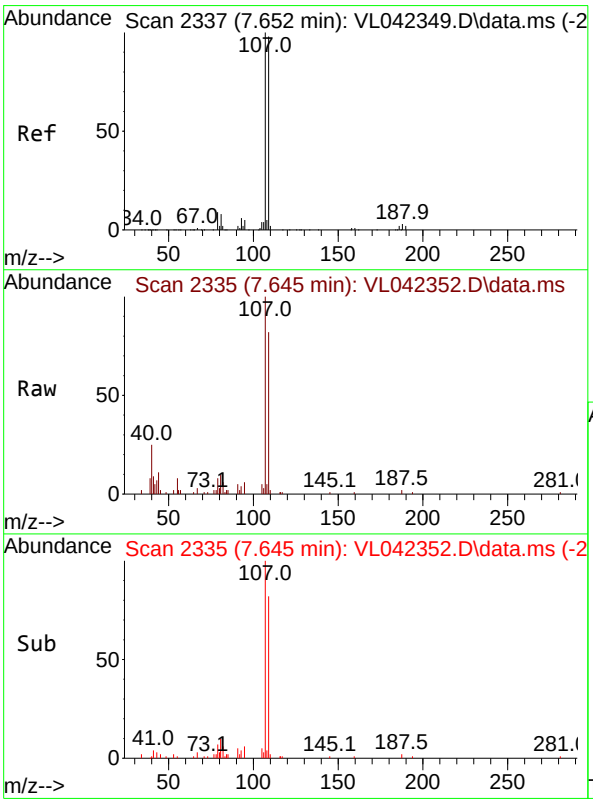
#53
Toluene
Concen: 0.529 ppbv
RT: 6.927 min Scan# 21
Delta R.T. -0.006 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 91 Resp: 24200

Ion	Ratio	Lower	Upper
91	100		
92	58.4	48.2	72.4

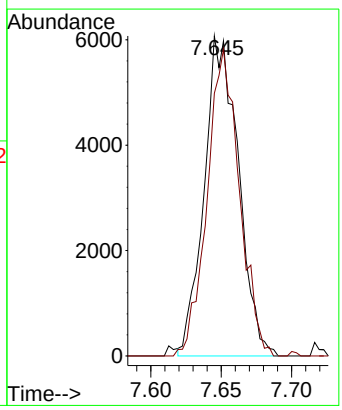


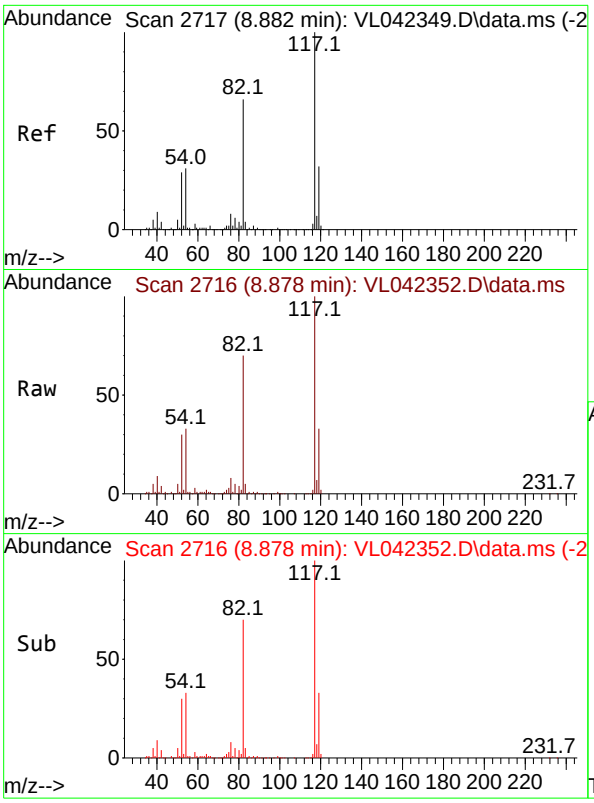


#54
1,2-Dibromoethane
Concen: 0.499 ppbv
RT: 7.645 min Scan# 2335
Delta R.T. -0.006 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion:107 Resp: 10282

Ion	Ratio	Lower	Upper
107	100		
109	82.1	78.2	117.4



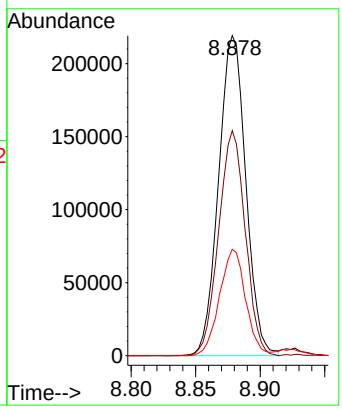


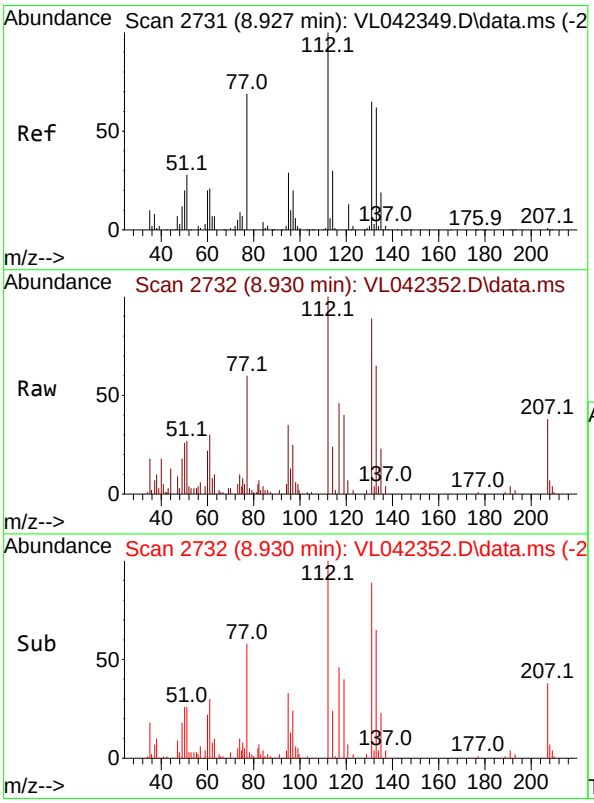
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.878 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion:117 Resp: 321644

Ion	Ratio	Lower	Upper
117	100		
82	69.0	57.8	86.6
119	33.8	25.2	37.8

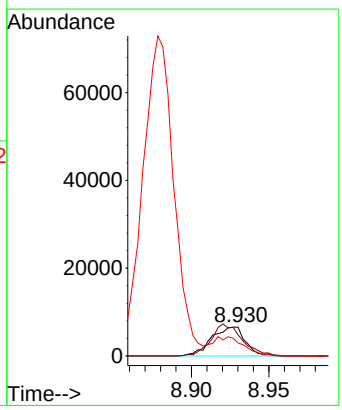


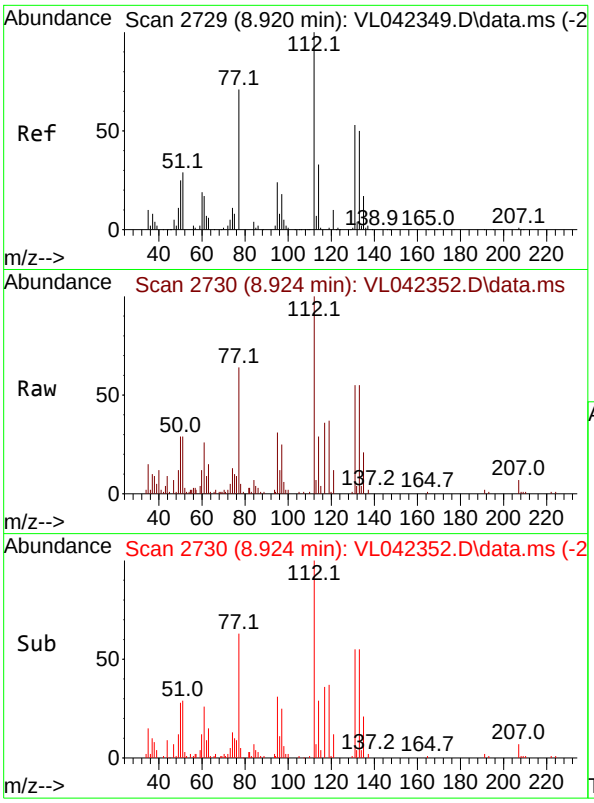


#56
1,1,1,2-Tetrachloroethane
Concen: 0.513 ppbv
RT: 8.930 min Scan# 2732
Delta R.T. 0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion:131 Resp: 9987

Ion	Ratio	Lower	Upper
131	100		
133	102.0	78.3	117.5
119	1087.9	48.7	73.1#



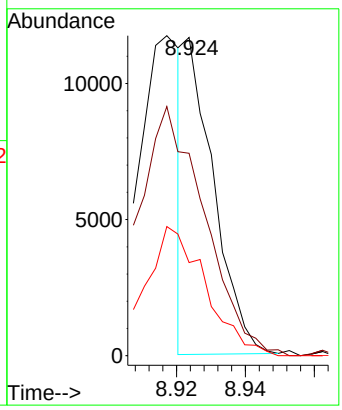


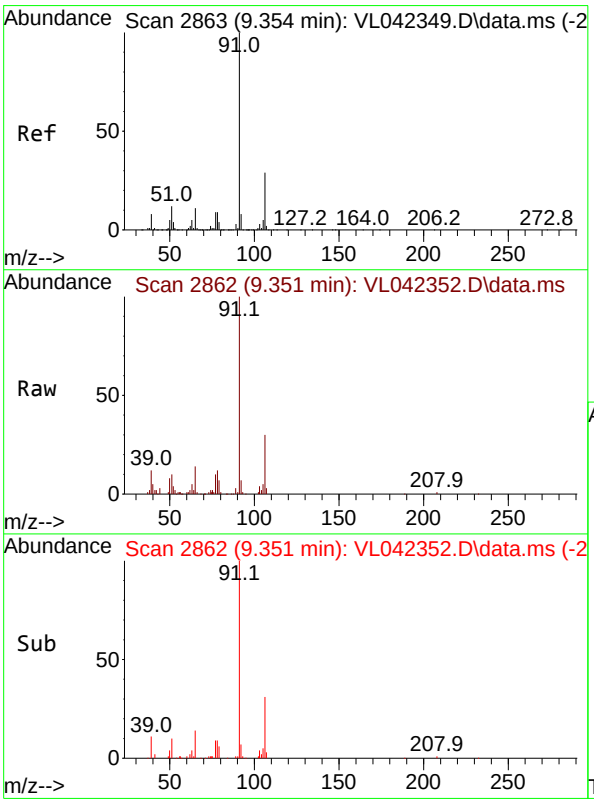
#57
Chlorobenzene
Concen: 0.206 ppbv
RT: 8.924 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion:112 Resp: 6884

Ion	Ratio	Lower	Upper
112	100		
77	62.1	57.8	86.6
114	29.5	29.3	35.9

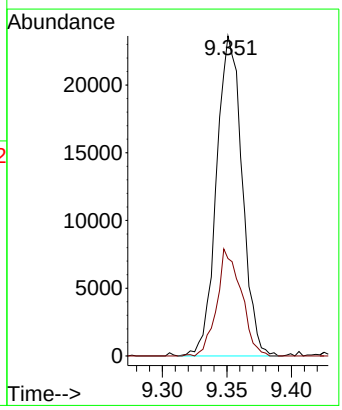


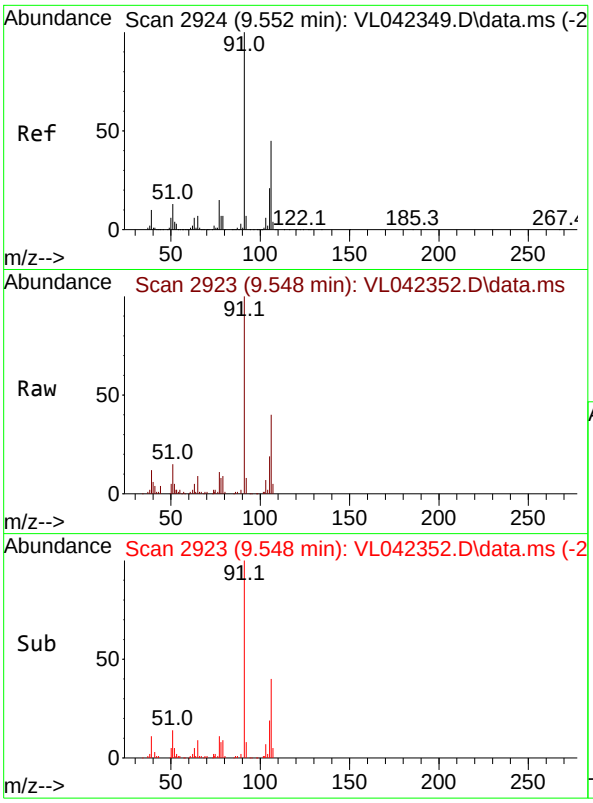


#58
Ethyl Benzene
Concen: 0.512 ppbv
RT: 9.351 min Scan# 2862
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 91 Resp: 32624

Ion	Ratio	Lower	Upper
91	100		
106	30.5	23.0	34.4



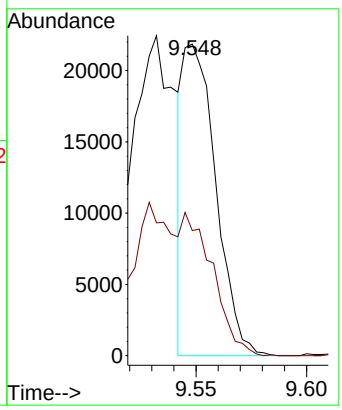


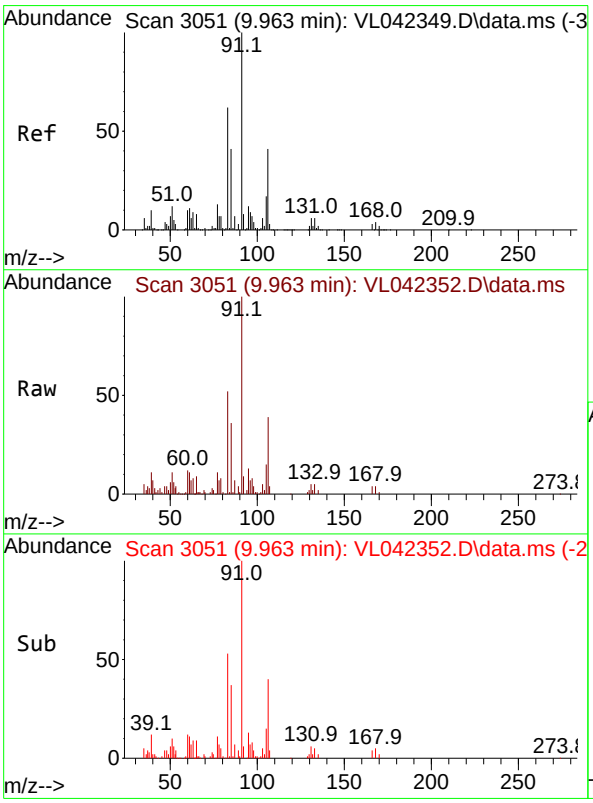
#59
m/p-Xylene
Concen: 0.439 ppbv
RT: 9.548 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 91 Resp: 22598

Ion	Ratio	Lower	Upper
91	100		
106	0.0	35.4	53.2#

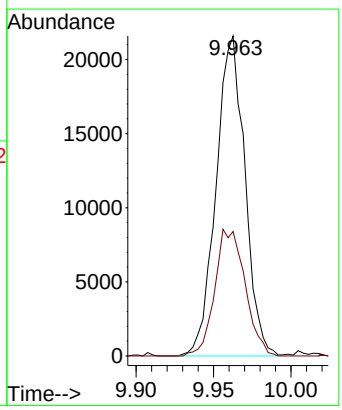


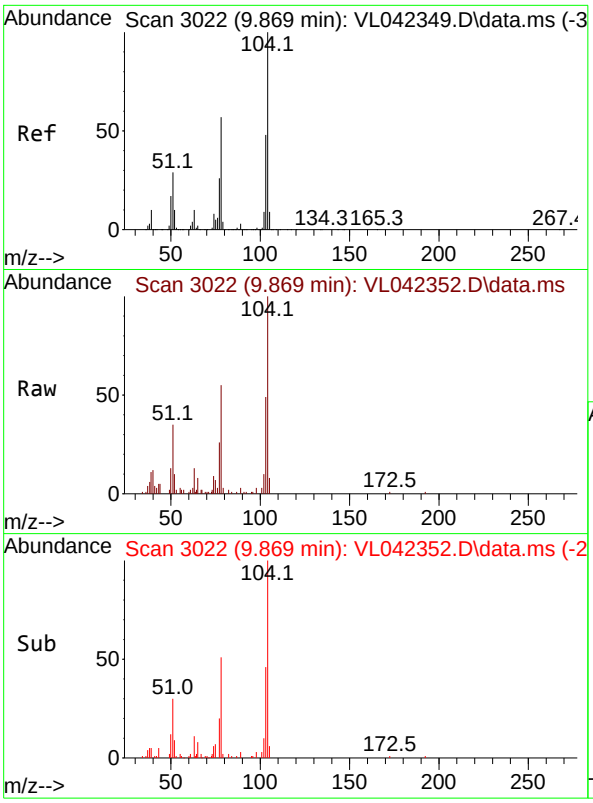


#60
o-Xylene
Concen: 0.541 ppbv
RT: 9.963 min Scan# 3051
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 91 Resp: 27983

Ion	Ratio	Lower	Upper
91	100		
106	41.6	21.1	63.4



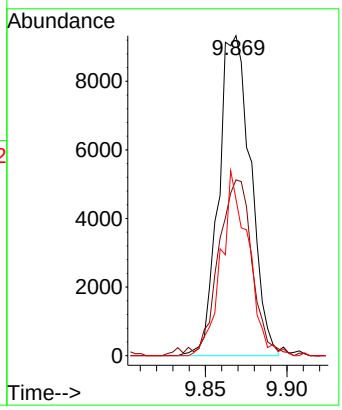


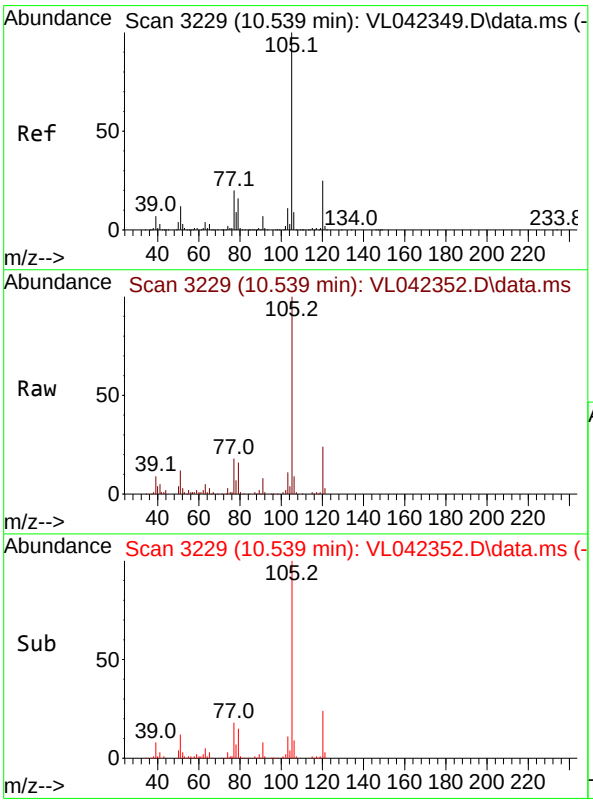
#61
Styrene
Concen: 0.516 ppbv
RT: 9.869 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion:104 Resp: 12736

Ion	Ratio	Lower	Upper
104	100		
78	58.6	44.6	66.8
103	49.2	37.4	56.0

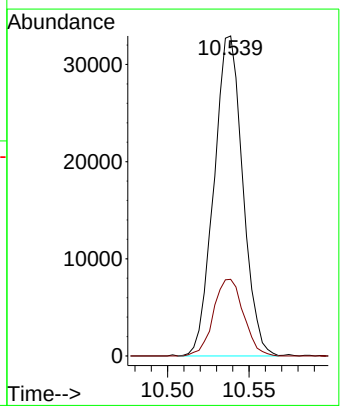


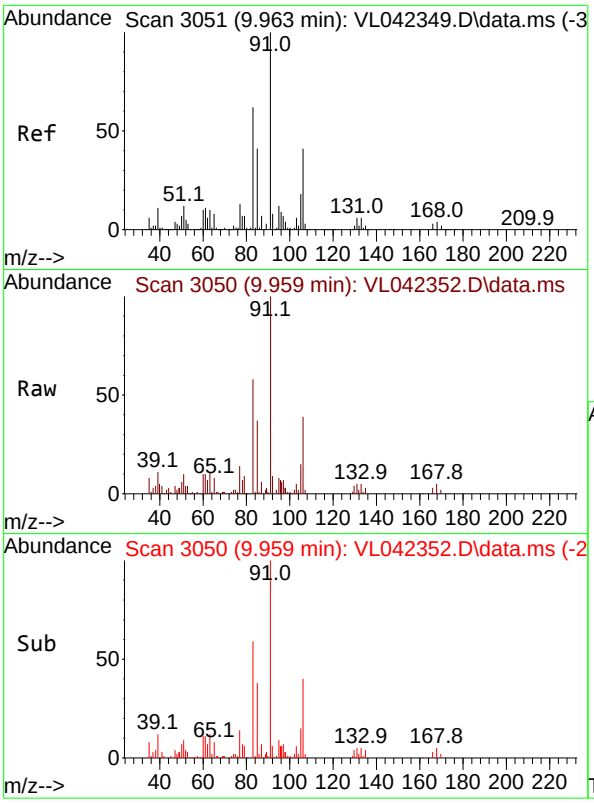


#62
Isopropylbenzene
Concen: 0.533 ppbv
RT: 10.539 min Scan# 3229
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion:105 Resp: 40481

Ion	Ratio	Lower	Upper
105	100		
120	24.9	19.8	29.8



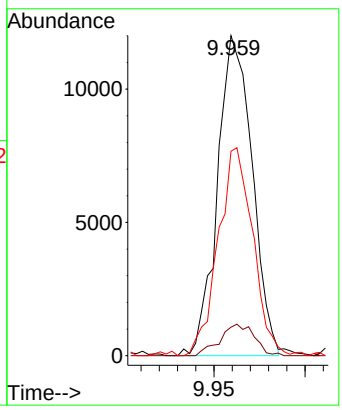


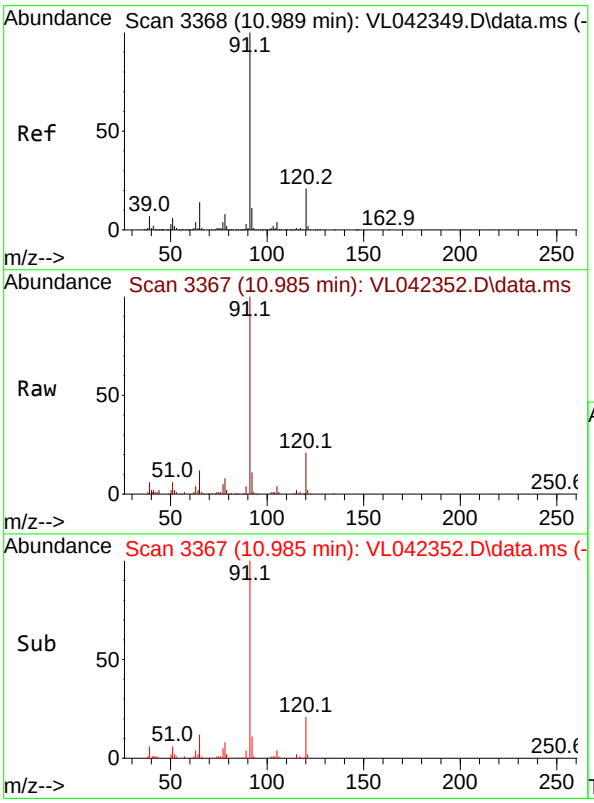
#63
1,1,2,2-Tetrachloroethane
Concen: 0.474 ppbv
RT: 9.959 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 83 Resp: 15920

Ion	Ratio	Lower	Upper
83	100		
131	9.8	4.5	13.7
85	65.6	32.4	97.0

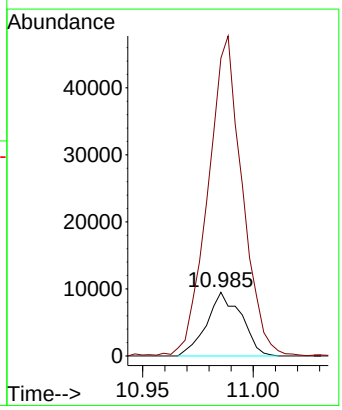


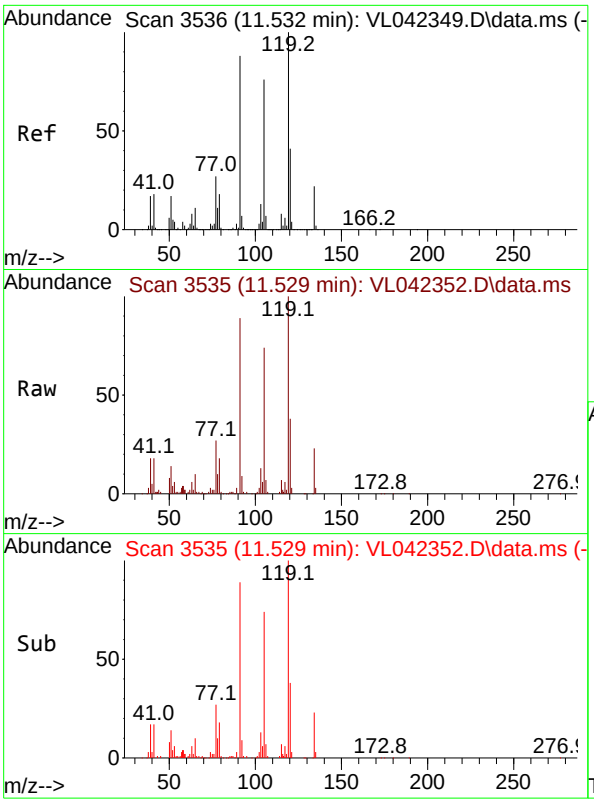


#64
n-propylbenzene
Concen: 0.544 ppbv
RT: 10.985 min Scan# 3367
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion:120 Resp: 10369

Ion	Ratio	Lower	Upper
120	100		
91	499.6	392.4	588.6



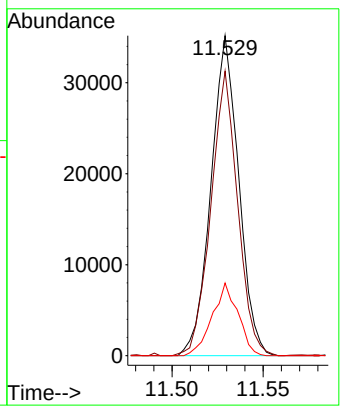


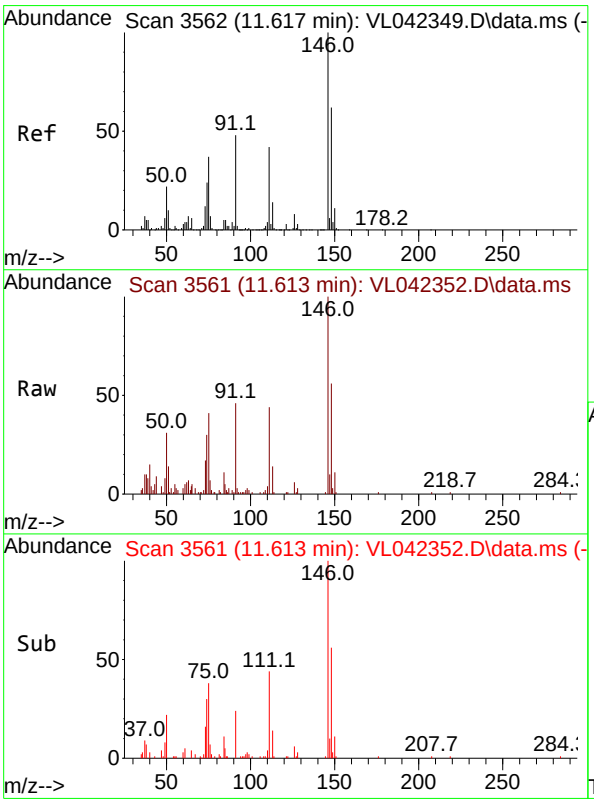
#65
tert-Butylbenzene
Concen: 0.535 ppbv
RT: 11.529 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion:119 Resp: 37294

Ion	Ratio	Lower	Upper
119	100		
91	85.8	74.6	111.8
134	21.1	18.8	28.2

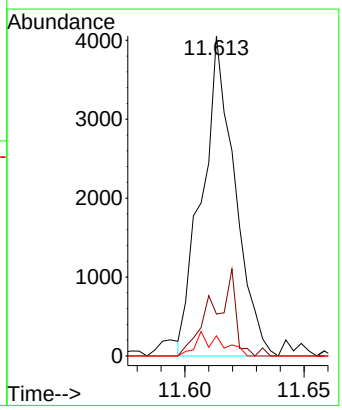


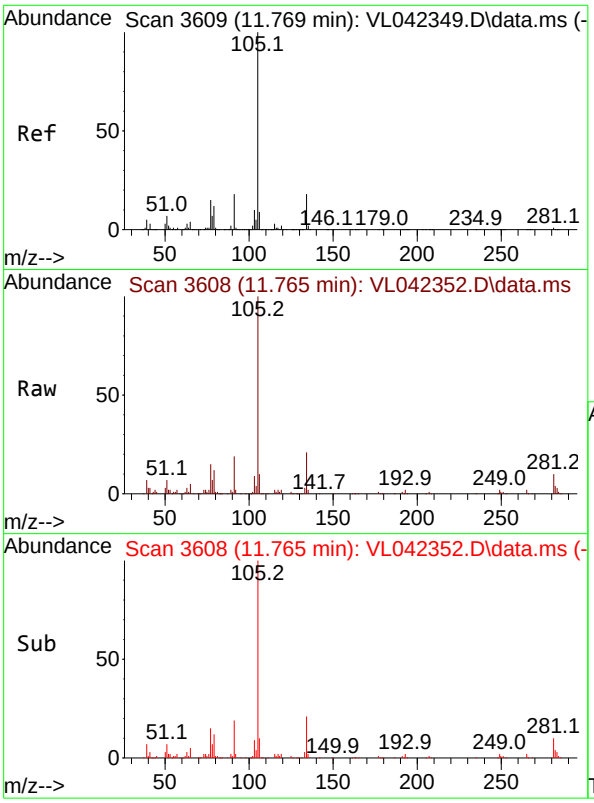


#66
Benzyl Chloride
Concen: 0.506 ppbv
RT: 11.613 min Scan# 3561
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 91 Resp: 3878

Ion	Ratio	Lower	Upper
91	100		
126	19.8	11.8	17.6#
128	5.8	4.5	6.7



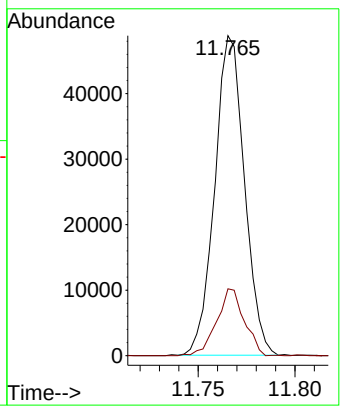


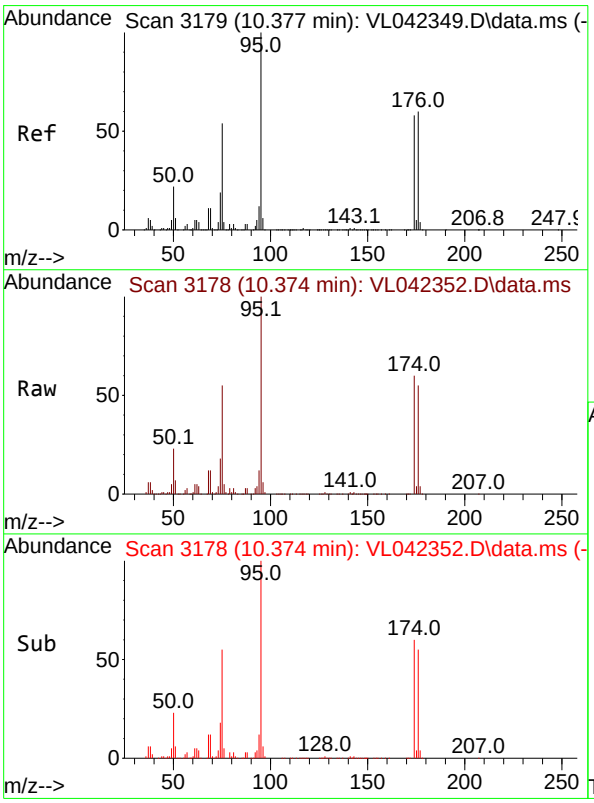
#67
sec-Butylbenzene
Concen: 0.537 ppbv
RT: 11.765 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion:105 Resp: 52139

Ion	Ratio	Lower	Upper
105	100		
134	19.5	14.6	21.8

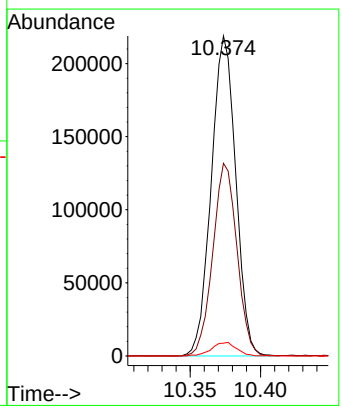


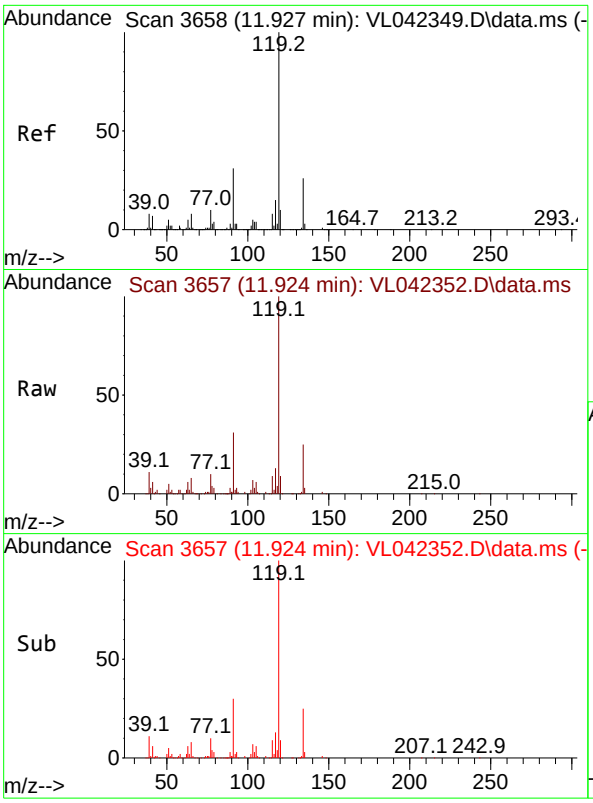


#68
1-Bromo-4-Fluorobenzene
Concen: 10.032 ppbv
RT: 10.374 min Scan# 3178
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 95 Resp: 265161

Ion	Ratio	Lower	Upper
95	100		
174	59.4	48.5	72.7
175	4.3	3.7	5.5



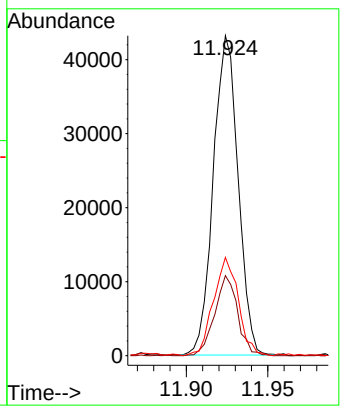


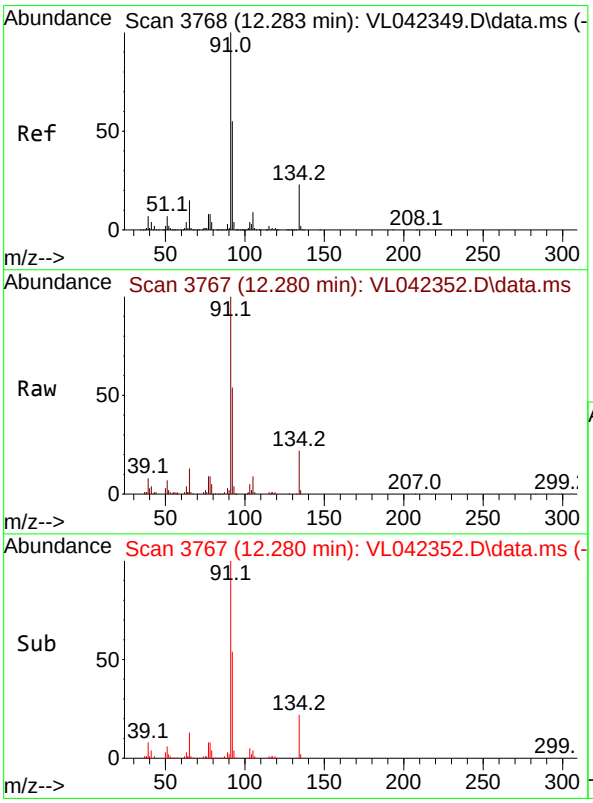
#69
p-Isopropyltoluene
Concen: 0.541 ppbv
RT: 11.924 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion:119 Resp: 45574

Ion	Ratio	Lower	Upper
119	100		
134	23.3	20.0	30.0
91	31.4	24.4	36.6

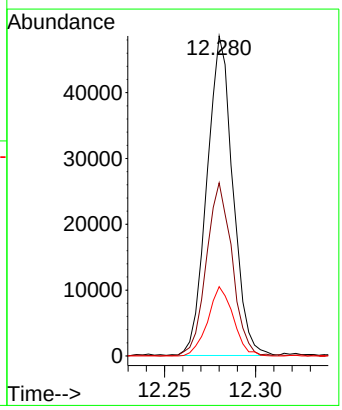


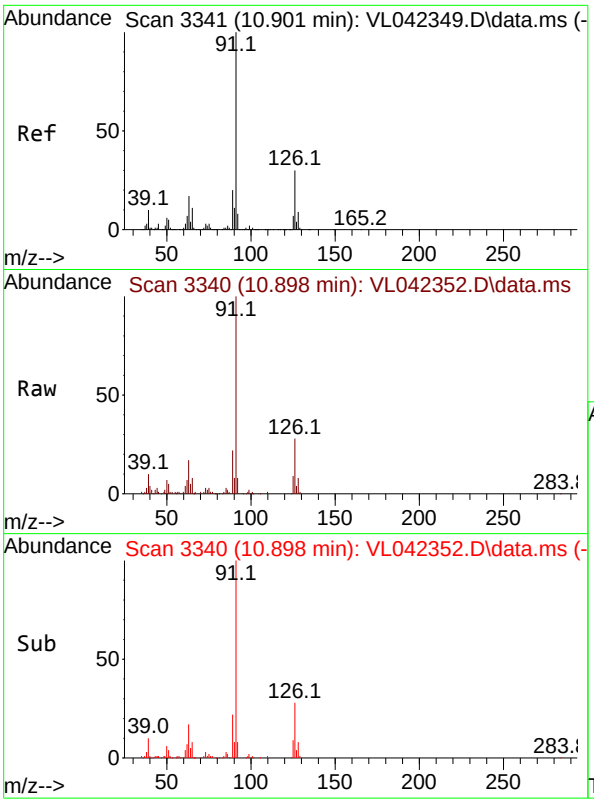


#70
n-Butylbenzene
Concen: 0.547 ppbv
RT: 12.280 min Scan# 3767
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 91 Resp: 48004

Ion	Ratio	Lower	Upper
91	100		
92	54.7	44.2	66.4
134	21.4	18.2	27.4



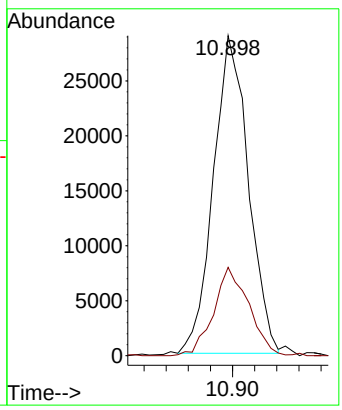


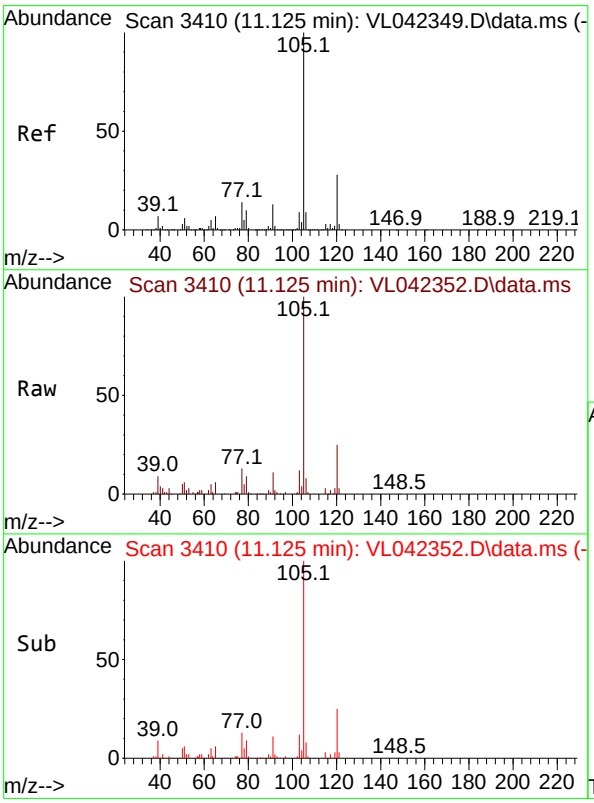
#71
2-Chlorotoluene
Concen: 0.533 ppbv
RT: 10.898 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 91 Resp: 31709

Ion	Ratio	Lower	Upper
91	100		
126	28.3	11.4	45.4

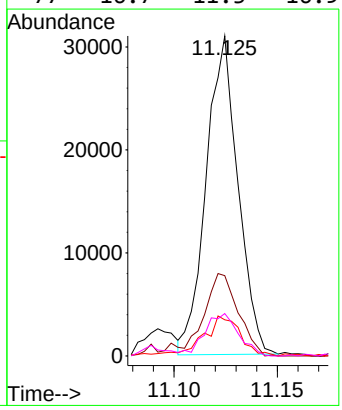


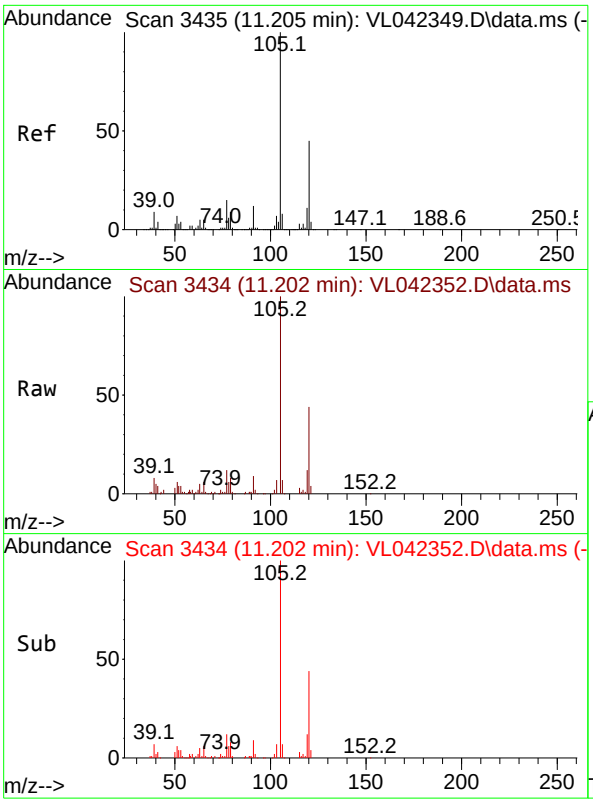


#72
4-Ethyltoluene
Concen: 0.523 ppbv
RT: 11.125 min Scan# 3410
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion:105 Resp: 33048

Ion	Ratio	Lower	Upper
105	100		
120	30.5	23.2	34.8
91	15.7	10.4	15.6#
77	16.7	11.3	16.9



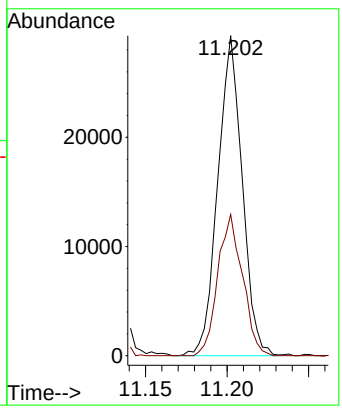


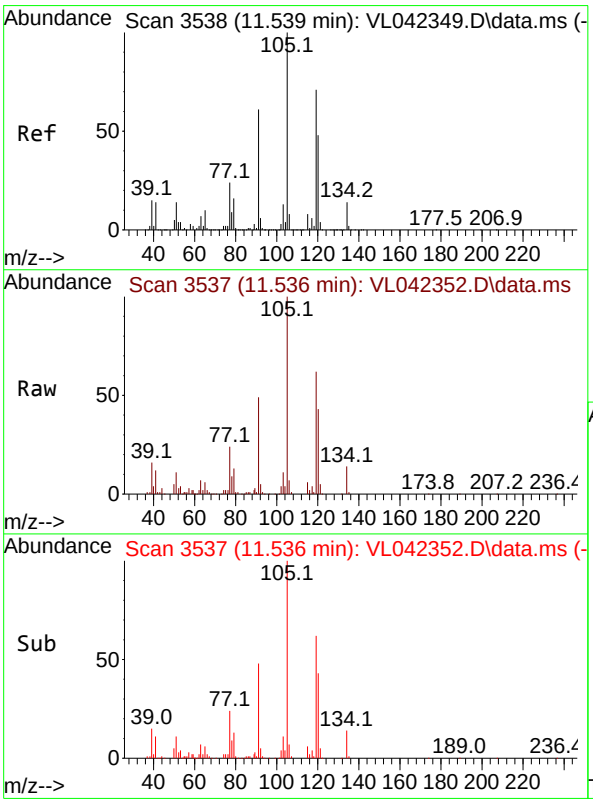
#73
1,3,5-Trimethylbenzene
Concen: 0.546 ppbv
RT: 11.202 min Scan# 34
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion:105 Resp: 30464

Ion	Ratio	Lower	Upper
105	100		
120	44.1	35.6	53.4

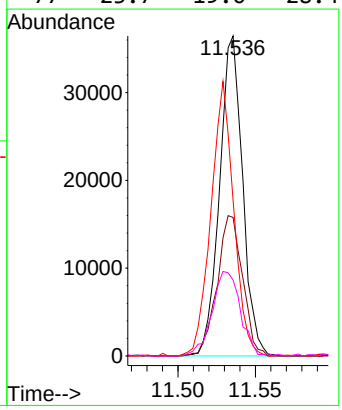


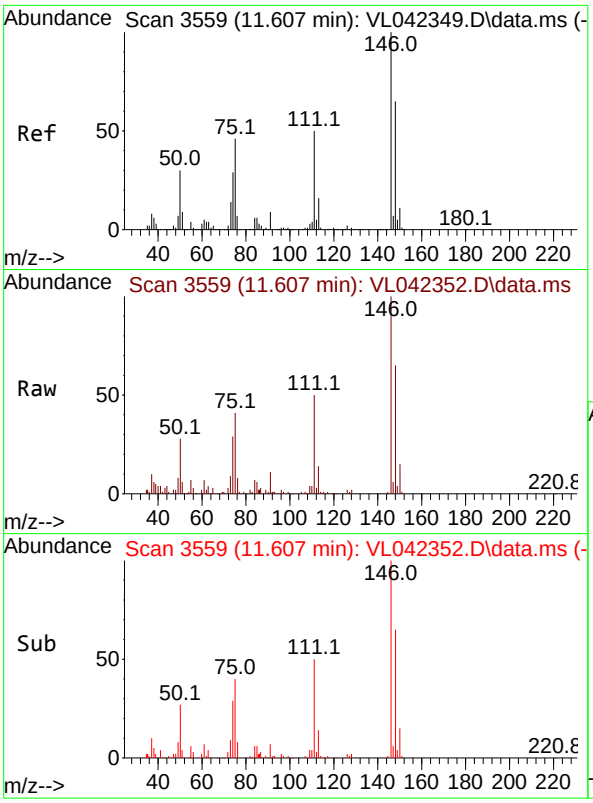


#74
1,2,4-Trimethylbenzene
Concen: 0.579 ppbv
RT: 11.536 min Scan# 3537
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion:105 Resp: 37765

Ion	Ratio	Lower	Upper
105	100		
120	43.3	38.1	57.1
91	48.7	48.8	73.2#
77	23.7	19.0	28.4



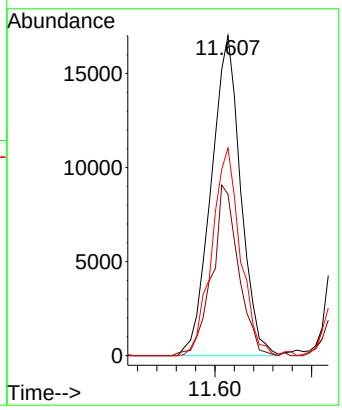


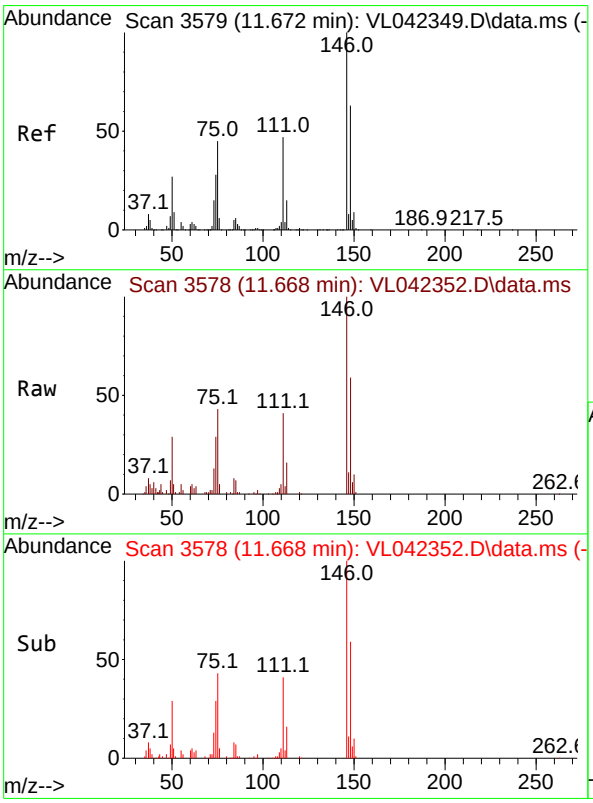
#75
1,3-Dichlorobenzene
Concen: 0.531 ppbv
RT: 11.607 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion:146 Resp: 18003

Ion	Ratio	Lower	Upper
146	100		
111	47.9	24.3	72.8
148	62.9	31.6	94.8

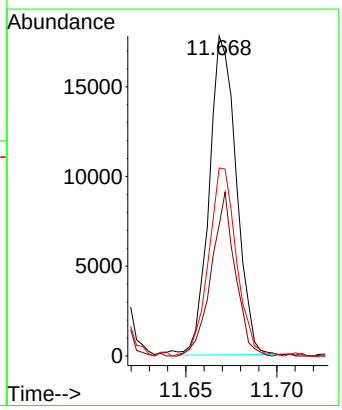


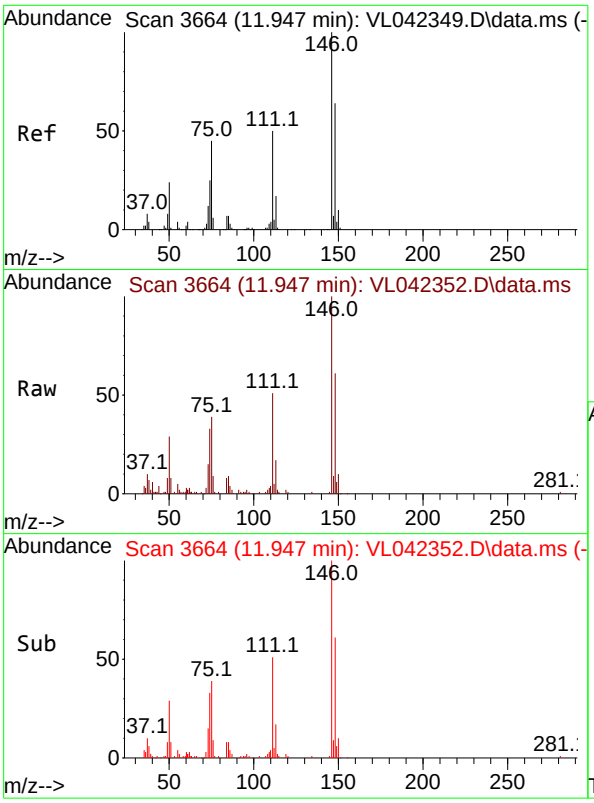


#76
1,4-Dichlorobenzene
Concen: 0.537 ppbv
RT: 11.668 min Scan# 3578
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion:146 Resp: 18300

Ion	Ratio	Lower	Upper
146	100		
111	45.9	24.2	72.6
148	61.2	32.1	96.5



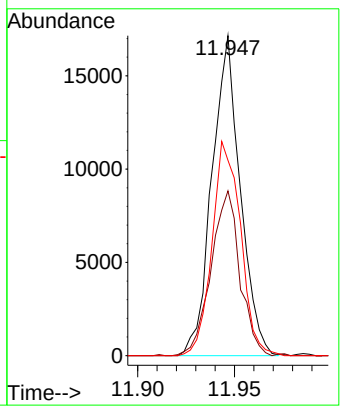


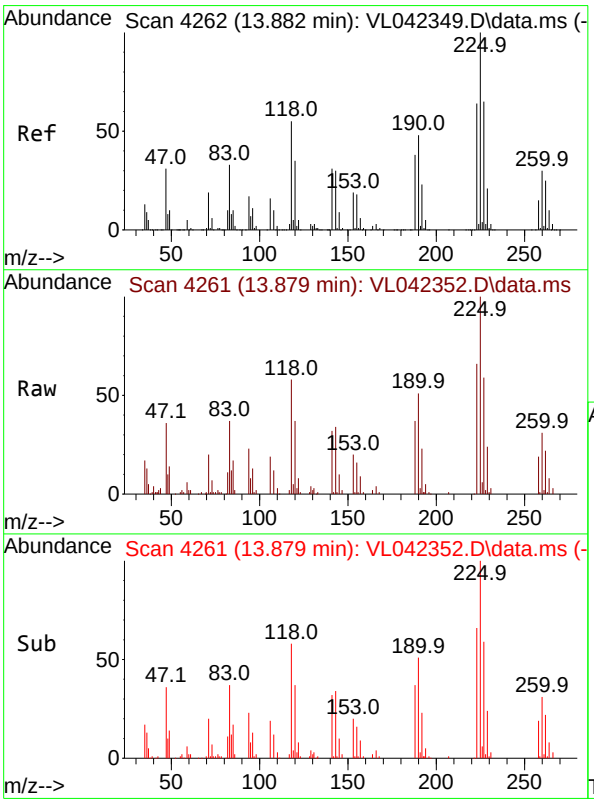
#77
1,2-Dichlorobenzene
Concen: 0.530 ppbv
RT: 11.947 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion:146 Resp: 17446

Ion	Ratio	Lower	Upper
146	100		
111	52.6	25.3	75.9
148	67.5	31.5	94.5

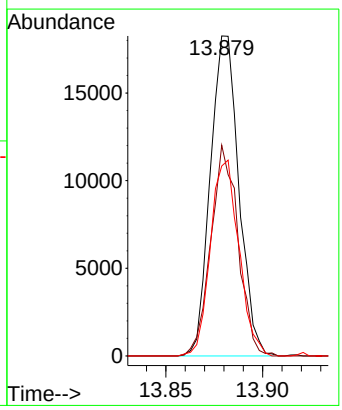


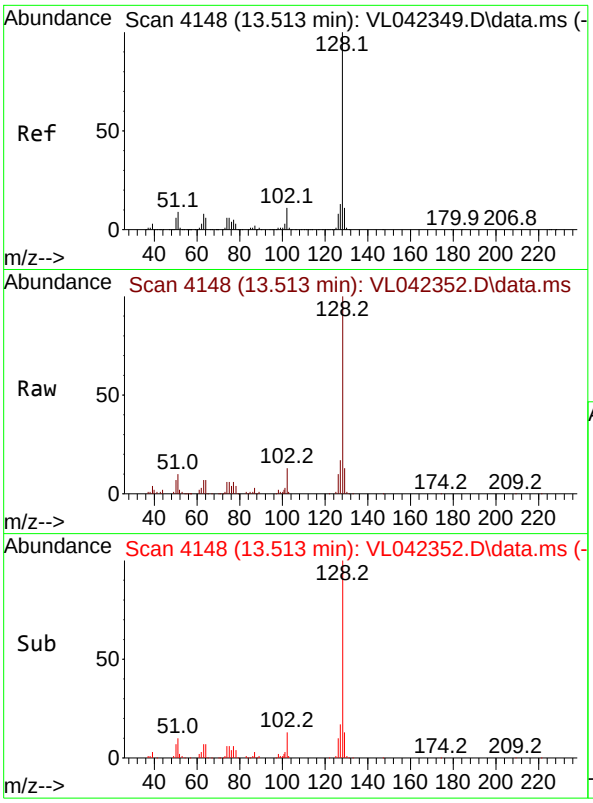


#78
Hexachloro-1,3-Butadiene
Concen: 0.562 ppbv
RT: 13.879 min Scan# 4261
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion:225 Resp: 18705

Ion	Ratio	Lower	Upper
225	100		
223	62.8	50.3	75.5
227	61.1	51.5	77.3



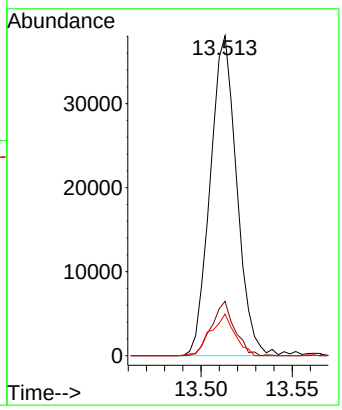


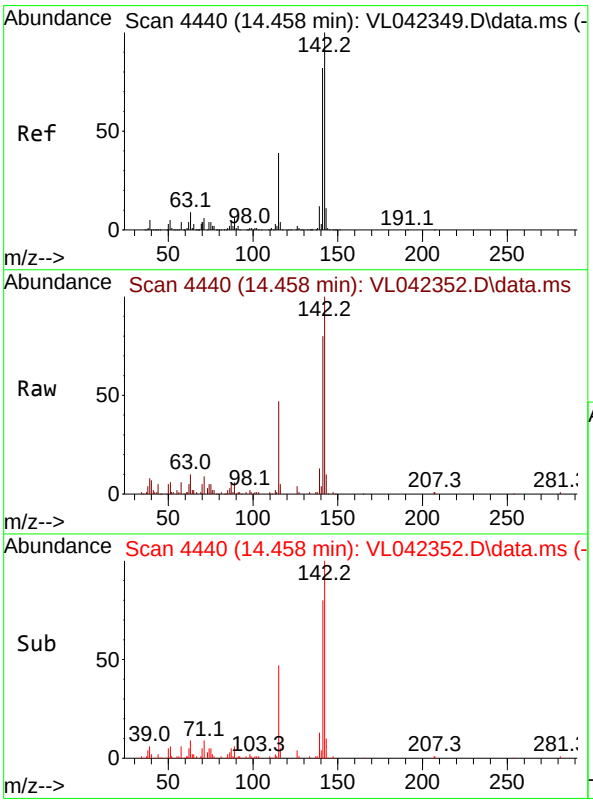
#79
Naphthalene
Concen: 0.494 ppbv
RT: 13.513 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion:128 Resp: 38521

Ion	Ratio	Lower	Upper
128	100		
127	17.0	10.6	15.8#
129	13.0	8.6	12.8#

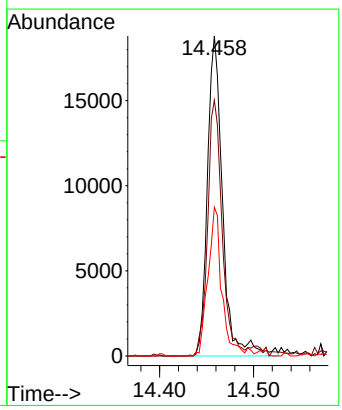


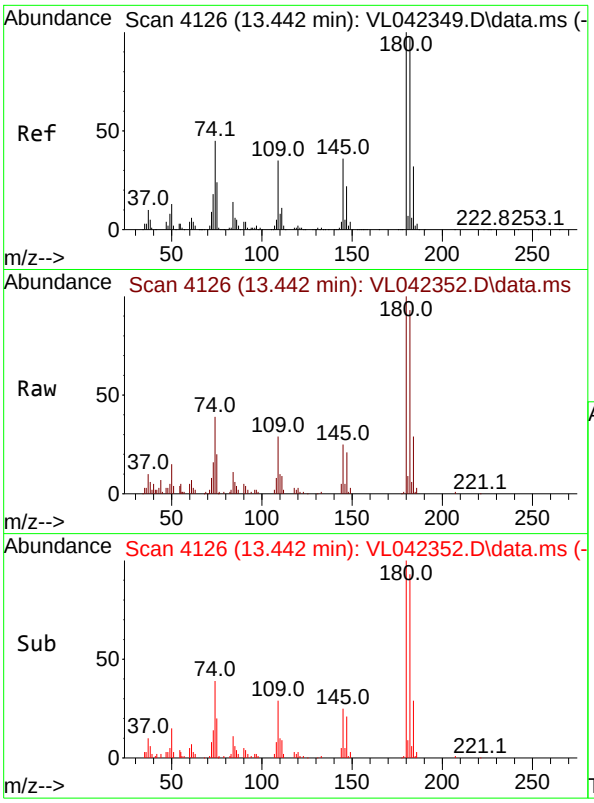


#80
Naphthalene,2-methyl-
Concen: 0.475 ppbv
RT: 14.458 min Scan# 4440
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion:142 Resp: 21076

Ion	Ratio	Lower	Upper
142	100		
141	79.2	66.8	100.2
115	44.1	33.4	50.2



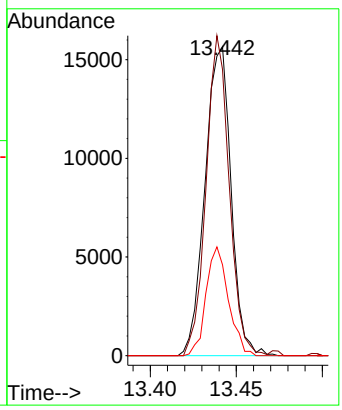


#81
1,2,4-Trichlorobenzene
Concen: 0.493 ppbv
RT: 13.442 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion:180 Resp: 16504

Ion	Ratio	Lower	Upper
180	100		
182	92.4	76.8	115.2
184	30.2	24.6	36.8



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042353.D
Acq On : 17 Apr 2025 11:50
Operator : SY/MD
Sample : VSTDICC0.1
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Quant Time: Apr 18 01:29:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Apr 18 01:24:29 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.791	49	119461	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	350484	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	315004	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.381	95	256417	9.906	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 99.100%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	2857	0.135	ppbv	98
3) Chlorodifluoromethane	1.477	51	2706	0.135	ppbv #	91
4) Chloromethane	1.535	50	1225	0.147	ppbv #	85
5) Vinyl Chloride	1.580	62	1088	0.120	ppbv #	74
6) Bromomethane	1.668	94	663	0.168	ppbv #	72
7) Chloroethane	1.703	64	579	0.176	ppbv #	78
8) Dichlorotetrafluoroethane	1.557	85	2377	0.131	ppbv	94
9) Propene	1.435	41	314	0.034	ppbv	90
10) Heptane	4.988	43	1056	0.043	ppbv #	1
12) 1,1,2-Trichlorotrifluo...	2.140	101	2017	0.123	ppbv	94
13) Ethanol	1.891	45	1958	2.618	ppbv #	24
14) Bromoethene	1.781	108	1015	0.164	ppbv #	77
15) Acetone	1.839	43	4783	0.245	ppbv #	82
16) 1,3-Butadiene	1.609	39	1776	0.193	ppbv #	46
17) tert-Butyl alcohol	2.049	59	3130	0.129	ppbv #	6
18) 1,1-Dichloroethene	2.037	96	1074	0.136	ppbv	85
19) Isopropyl Alcohol	1.891	45	1958	0.180	ppbv	90
20) Methylene Chloride	2.066	84	2741	0.358	ppbv #	74
21) Allyl Chloride	2.098	41	2786	0.206	ppbv #	72
22) trans-1,2-Dichloroethene	2.347	96	1201	0.138	ppbv #	60
23) Vinyl Acetate	2.457	43	326	0.041	ppbv #	77
24) 1,1-Dichloroethane	2.412	63	2169	0.131	ppbv #	78
26) Hexane	2.833	57	3260	0.167	ppbv #	1
27) Carbon Disulfide	2.150	76	2396	0.115	ppbv #	1
28) Methyl tert-Butyl Ether	2.448	73	1460	0.114	ppbv #	1
29) Chloroform	2.849	83	3542	0.128	ppbv	100
30) Cyclohexane	3.859	84	1037	0.066	ppbv #	1
32) 1,1,1-Trichloroethane	3.373	97	1734	0.059	ppbv #	20
34) 2-Butanone	2.564	43	3506	0.126	ppbv #	79
35) Carbon Tetrachloride	3.771	117	3204	0.101	ppbv #	94
36) Benzene	3.665	78	4424	0.117	ppbv	97
37) 1,2-Dichloroethane	3.224	62	2523	0.111	ppbv #	81
38) Trichloroethene	4.551	130	1113	0.067	ppbv #	63
39) 1,2-Dichloropropane	4.315	63	1007	0.071	ppbv	96
40) 1,4-Dioxane	4.616	88	431	0.056	ppbv #	1
42) Bromodichloromethane	4.496	83	2443	0.077	ppbv #	89
43) Methyl Methacrylate	4.894	69	1683	0.099	ppbv #	60
44) 2,2,4-Trimethylpentane	4.648	57	2115	0.032	ppbv #	42
45) t-1,3-Dichloropropene	6.429	75	748	0.043	ppbv	98
46) cis-1,3-Dichloropropene	5.610	75	1032	0.048	ppbv	90
47) 1,1,2-Trichloroethane	6.584	97	540	0.038	ppbv #	39
48) Dibromochloromethane	7.393	129	1149	0.045	ppbv #	1
49) Bromoform	9.484	173	1973	0.089	ppbv #	86

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042353.D
Acq On : 17 Apr 2025 11:50
Operator : SY/MD
Sample : VSTDICC0.1
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Quant Time: Apr 18 01:29:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Apr 18 01:24:29 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
51) 2-Hexanone	7.455	43	4915	0.118	ppbv	#	99
52) Tetrachloroethene	8.222	164	957	0.065	ppbv		88
54) 1,2-Dibromoethane	7.662	107	1470	0.072	ppbv	#	75
56) 1,1,1,2-Tetrachloroethane	8.934	131	2031	0.107	ppbv	#	47
57) Chlorobenzene	8.924	112	3842	0.117	ppbv	#	76
58) Ethyl Benzene	9.361	91	3105	0.050	ppbv		95
59) m/p-Xylene	9.552	91	4844	0.096	ppbv	#	32
60) o-Xylene	9.970	91	5359	0.106	ppbv		91
61) Styrene	9.872	104	1549	0.064	ppbv	#	26
62) Isopropylbenzene	10.542	105	8285	0.111	ppbv		97
63) 1,1,2,2-Tetrachloroethane	9.966	83	3646	0.111	ppbv		97
64) n-propylbenzene	10.996	120	2186	0.117	ppbv		93
65) tert-Butylbenzene	11.536	119	8656	0.127	ppbv		85
66) Benzyl Chloride	11.617	91	414	0.055	ppbv	#	81
67) sec-Butylbenzene	11.769	105	11126	0.117	ppbv		96
69) p-Isopropyltoluene	11.928	119	9534	0.115	ppbv		98
70) n-Butylbenzene	12.284	91	8684	0.101	ppbv		96
71) 2-Chlorotoluene	10.905	91	6703	0.115	ppbv		99
72) 4-Ethyltoluene	11.128	105	6463	0.104	ppbv	#	80
73) 1,3,5-Trimethylbenzene	11.206	105	6797	0.124	ppbv		96
74) 1,2,4-Trimethylbenzene	11.539	105	8745	0.137	ppbv	#	81
75) 1,3-Dichlorobenzene	11.610	146	3258	0.098	ppbv		85
76) 1,4-Dichlorobenzene	11.678	146	3366	0.101	ppbv		92
77) 1,2-Dichlorobenzene	11.950	146	3996	0.124	ppbv		93
78) Hexachloro-1,3-Butadiene	13.883	225	4030	0.124	ppbv		97
79) Naphthalene	13.517	128	7664	0.100	ppbv	#	92
80) Naphthalene,2-methyl-	14.468	142	3339	0.077	ppbv	#	92
81) 1,2,4-Trichlorobenzene	13.442	180	2245	0.069	ppbv	#	95

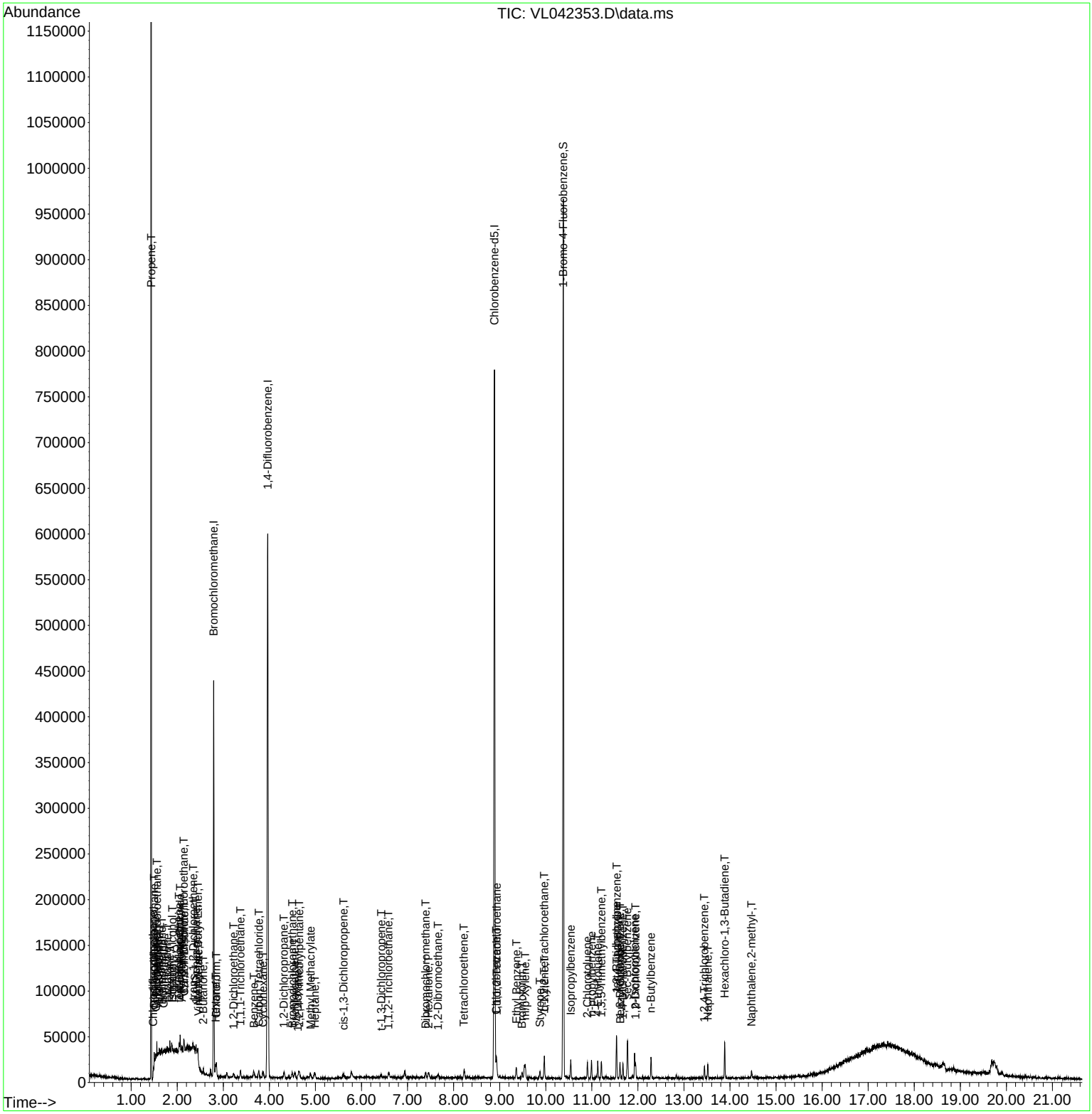
(#) = qualifier out of range (m) = manual integration (+) = signals summed

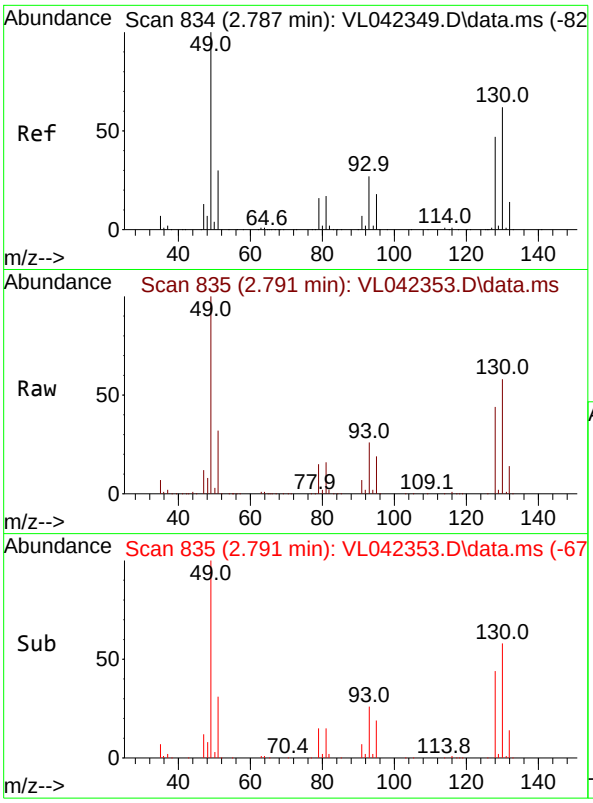
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042353.D
Acq On : 17 Apr 2025 11:50
Operator : SY/MD
Sample : VSTDICC0.1
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Quant Time: Apr 18 01:29:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Apr 18 01:24:29 2025
Response via : Initial Calibration



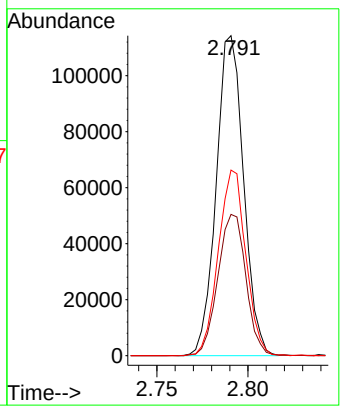


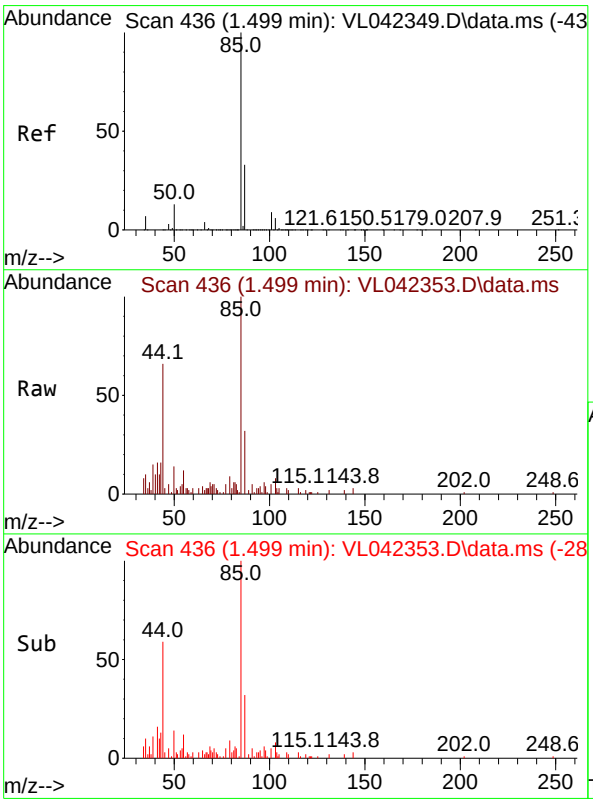
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.791 min Scan# 8
Delta R.T. 0.004 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion: 49 Resp: 119461

Ion	Ratio	Lower	Upper
49	100		
128	45.3	22.8	68.4
130	58.3	29.3	88.0

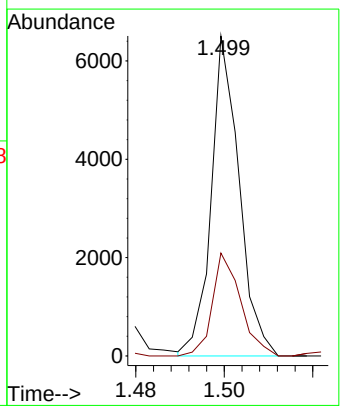


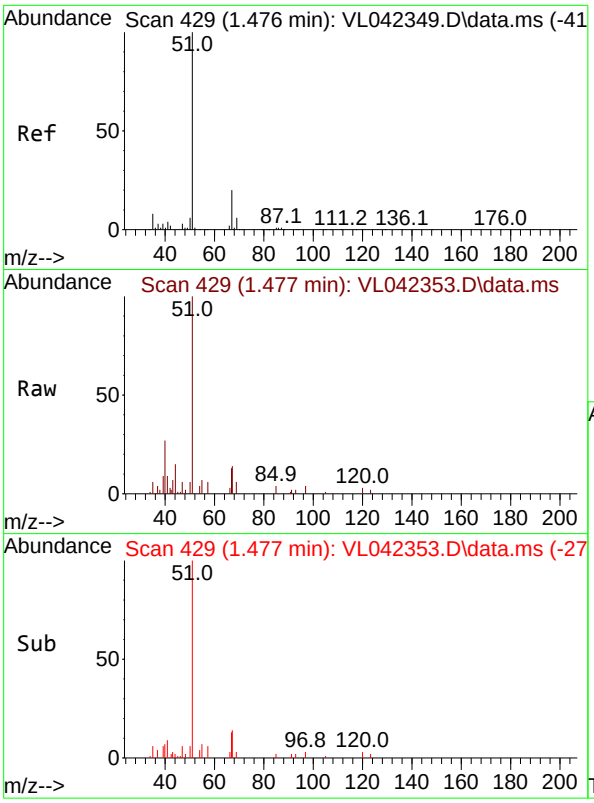


#2
Dichlorodifluoromethane
Concen: 0.135 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.000 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Tgt Ion: 85 Resp: 2857

Ion	Ratio	Lower	Upper
85	100		
87	32.2	26.6	39.8



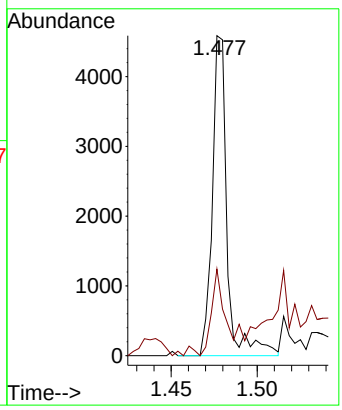


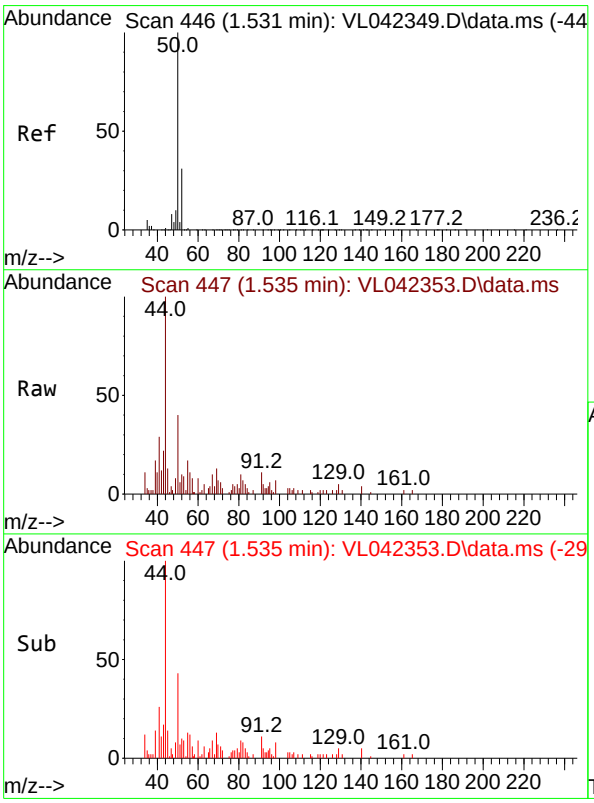
#3
Chlorodifluoromethane
Concen: 0.135 ppbv
RT: 1.477 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion: 51 Resp: 2706

Ion	Ratio	Lower	Upper
51	100		
67	24.5	16.2	24.4#

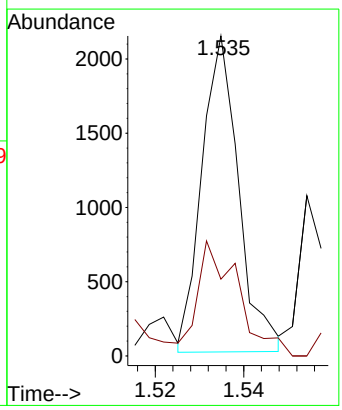


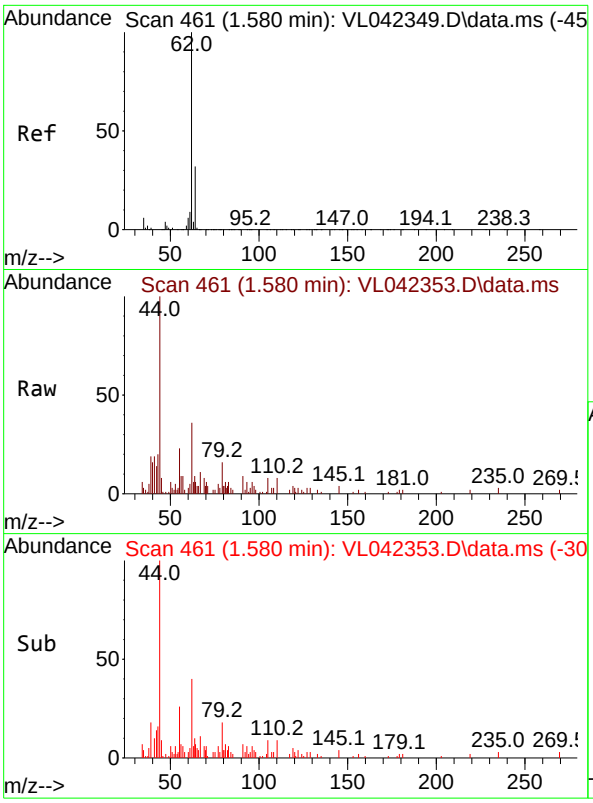


#4
Chloromethane
Concen: 0.147 ppbv
RT: 1.535 min Scan# 447
Delta R.T. 0.004 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Tgt Ion: 50 Resp: 1225

Ion	Ratio	Lower	Upper
50	100		
52	22.9	24.7	37.1#



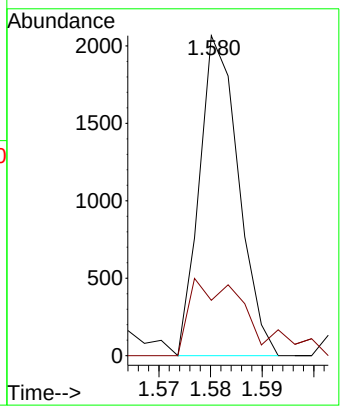


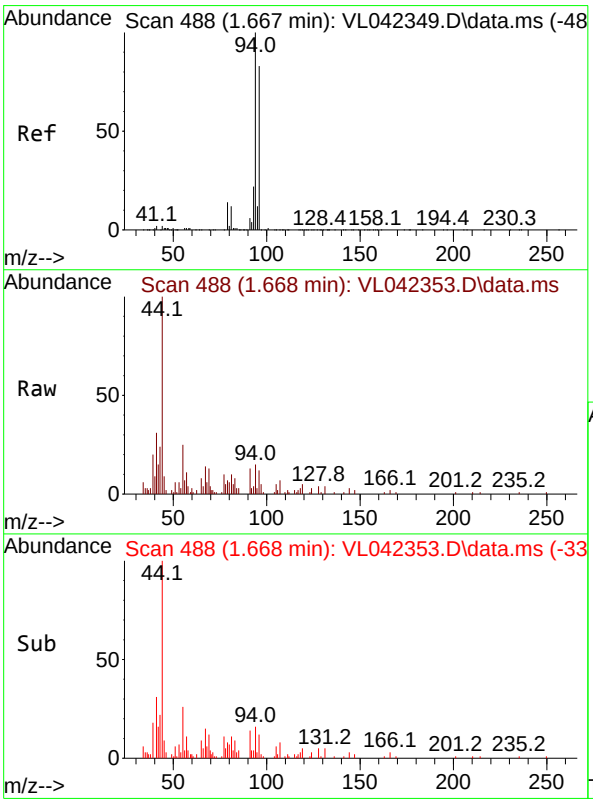
#5
Vinyl Chloride
Concen: 0.120 ppbv
RT: 1.580 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion: 62 Resp: 1088

Ion	Ratio	Lower	Upper
62	100		
64	17.3	25.4	38.0#

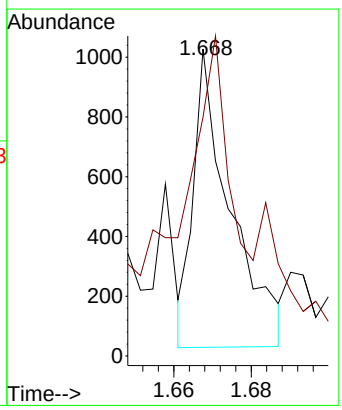


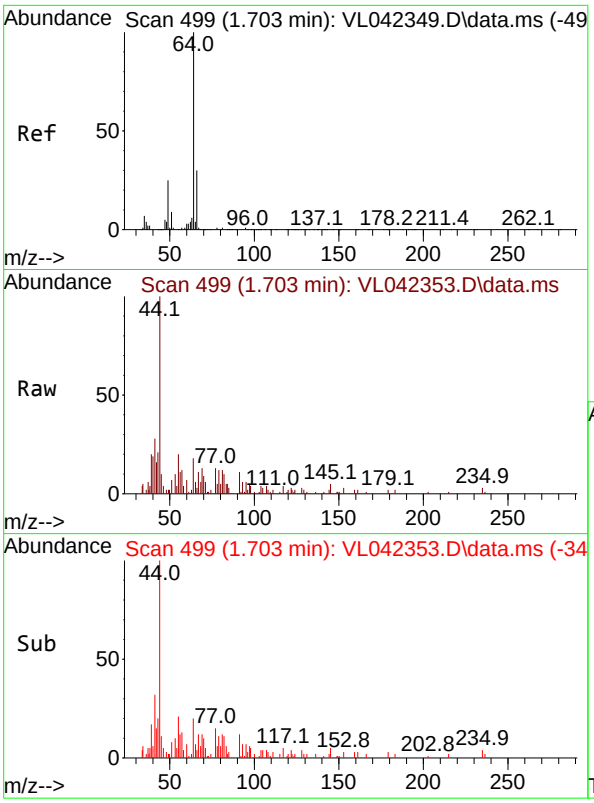


#6
Bromomethane
Concen: 0.168 ppbv
RT: 1.668 min Scan# 488
Delta R.T. 0.000 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Tgt Ion: 94 Resp: 663

Ion	Ratio	Lower	Upper
94	100		
96	57.5	66.2	99.2#



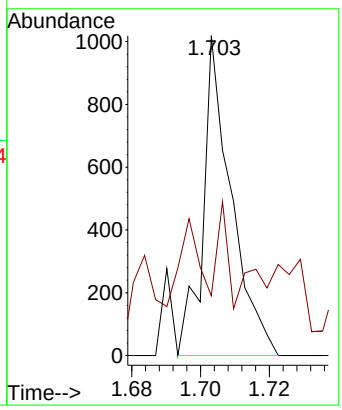


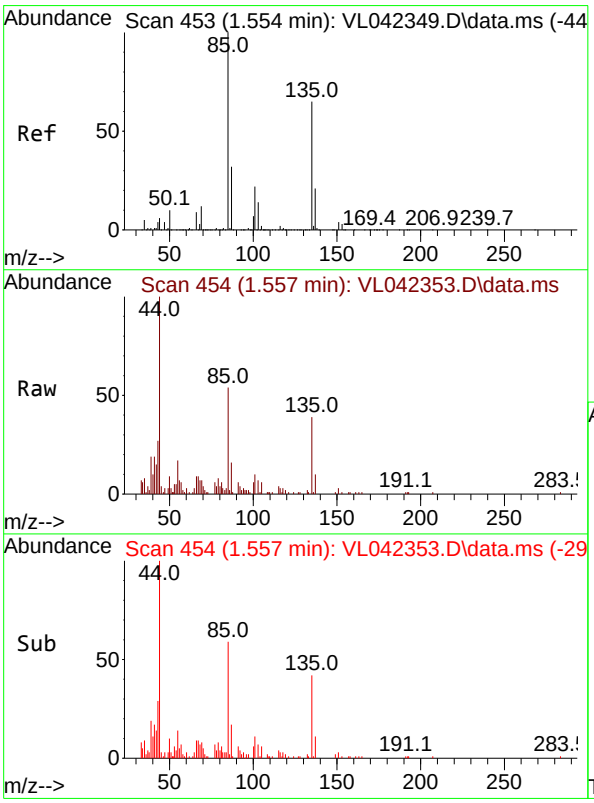
#7
Chloroethane
Concen: 0.176 ppbv
RT: 1.703 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion: 64 Resp: 579

Ion	Ratio	Lower	Upper
64	100		
66	18.6	24.6	37.0#

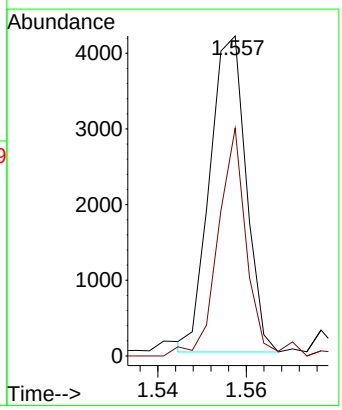


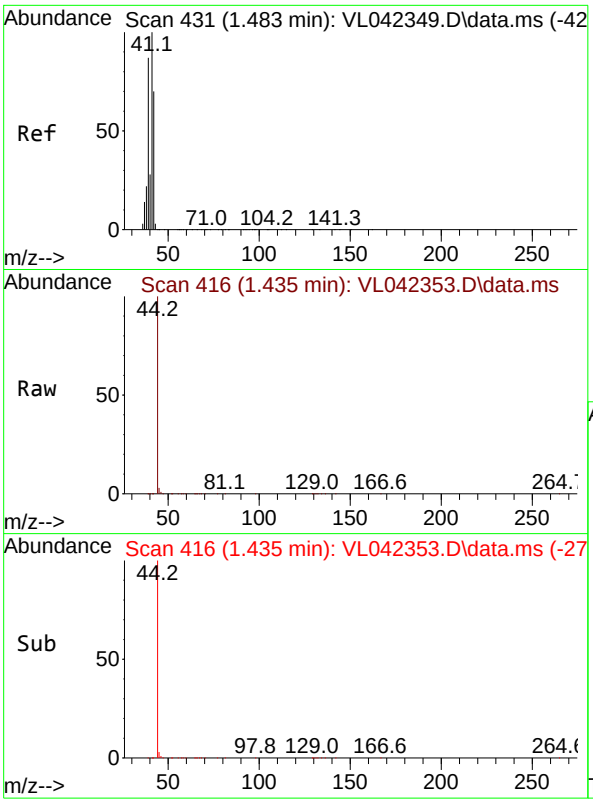


#8
Dichlorotetrafluoroethane
Concen: 0.131 ppbv
RT: 1.557 min Scan# 454
Delta R.T. 0.004 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Tgt Ion: 85 Resp: 2377

Ion	Ratio	Lower	Upper
85	100		
135	60.3	52.2	78.2



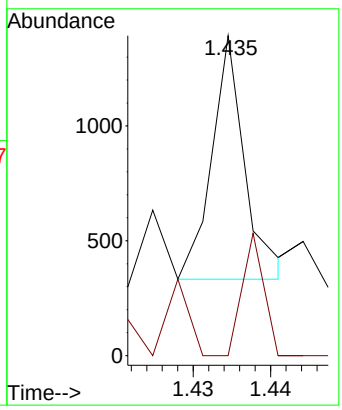


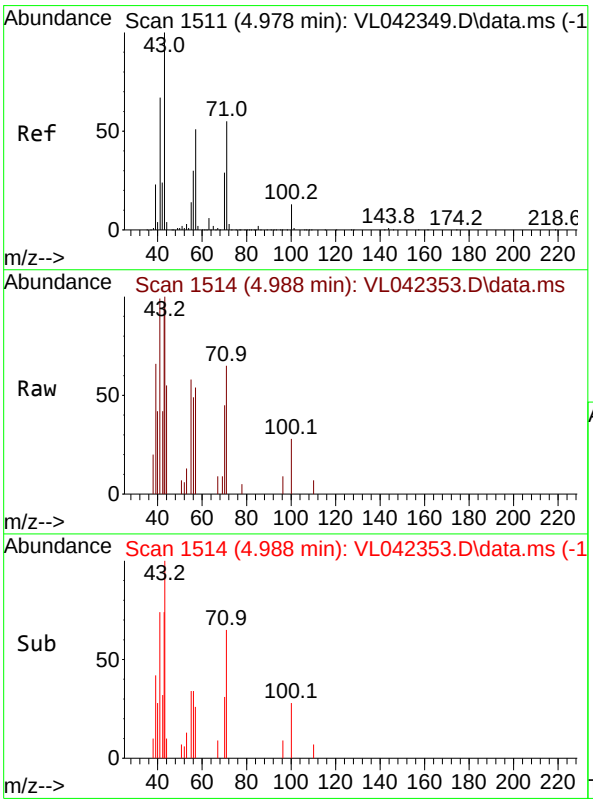
#9
Propene
Concen: 0.034 ppbv
RT: 1.435 min Scan# 4
Delta R.T. -0.048 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion: 41 Resp: 314

Ion	Ratio	Lower	Upper
41	100		
42	78.7	56.2	84.4

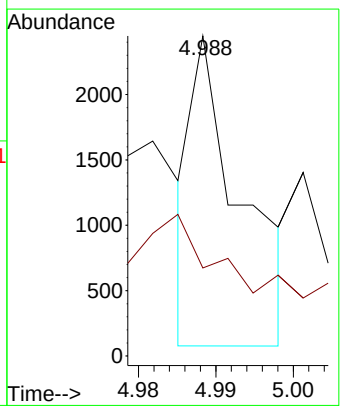


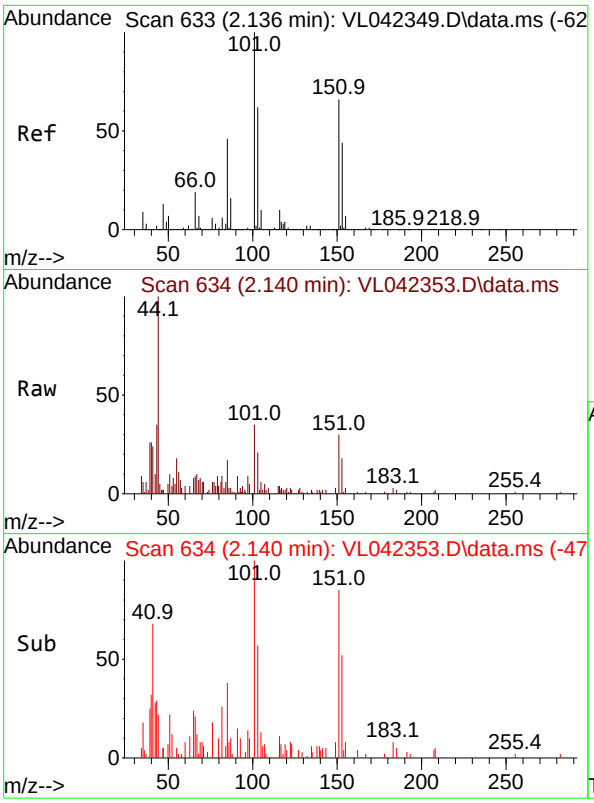


#10
Heptane
Concen: 0.043 ppbv
RT: 4.988 min Scan# 1514
Delta R.T. 0.010 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Tgt Ion: 43 Resp: 1056

Ion	Ratio	Lower	Upper
43	100		
57	220.7	39.9	59.9#



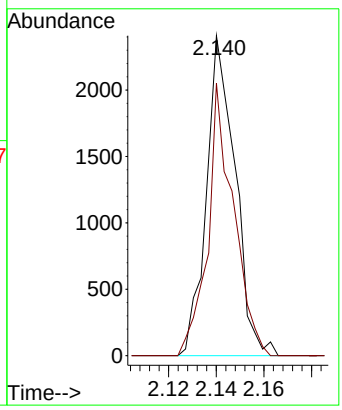


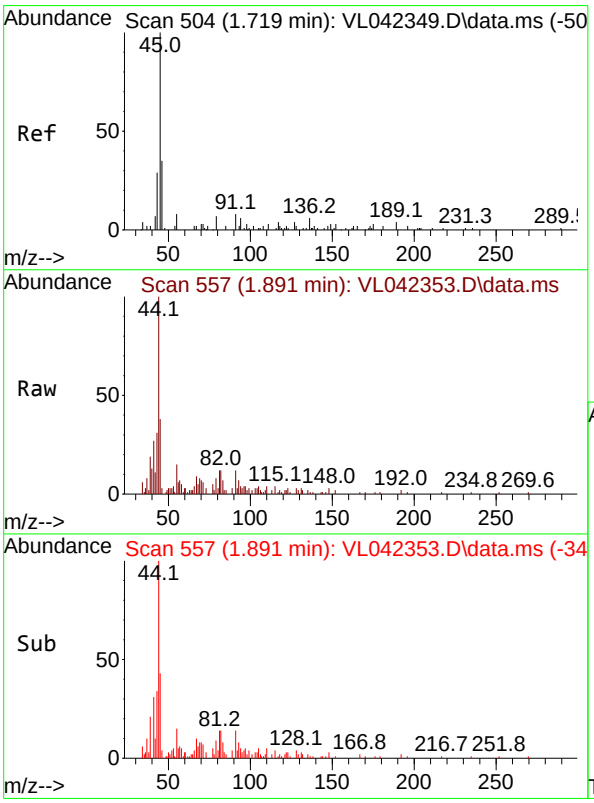
#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.123 ppbv
RT: 2.140 min Scan# 6
Delta R.T. 0.004 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion:101 Resp: 2017

Ion	Ratio	Lower	Upper
101	100		
151	76.2	57.0	85.6

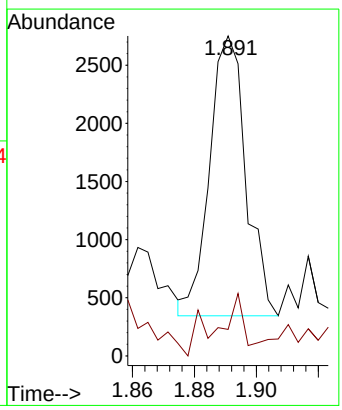


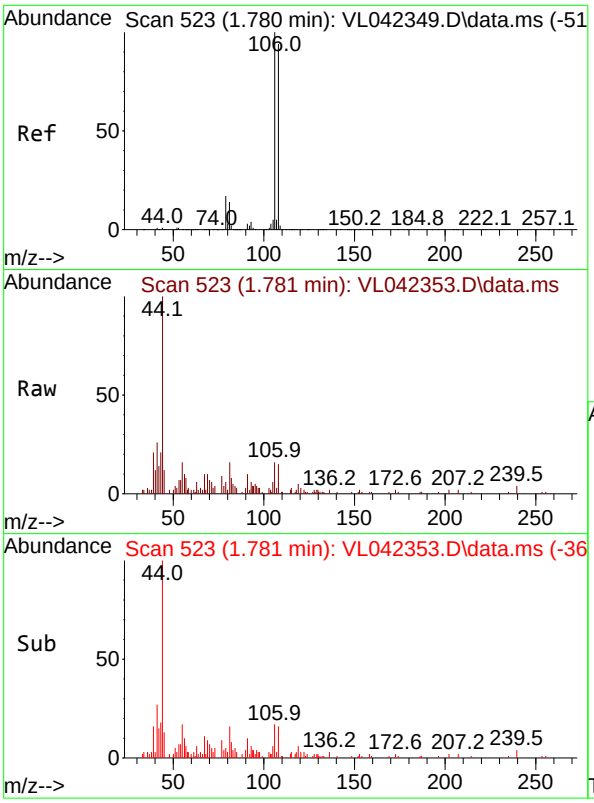


#13
Ethanol
Concen: 2.618 ppbv
RT: 1.891 min Scan# 557
Delta R.T. 0.172 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Tgt Ion: 45 Resp: 1958

Ion	Ratio	Lower	Upper
45	100		
46	0.0	21.9	87.7#



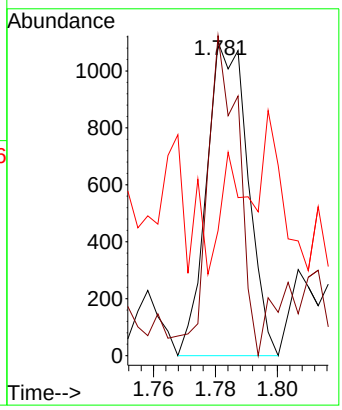


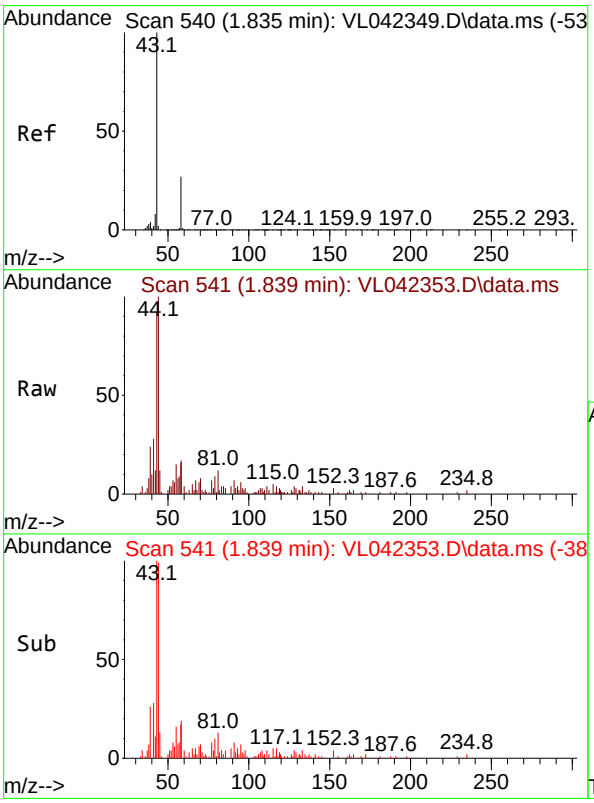
#14
Bromoethene
Concen: 0.164 ppbv
RT: 1.781 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion:108 Resp: 1015

Ion	Ratio	Lower	Upper
108	100		
106	128.3	85.9	128.9
79	0.0	13.9	20.9#

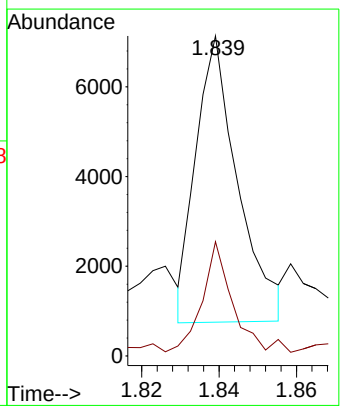


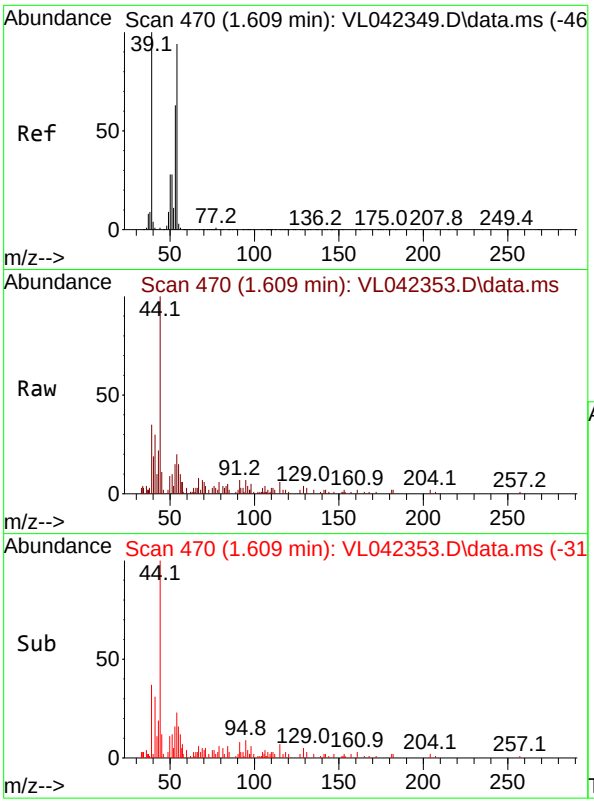


#15
Acetone
Concen: 0.245 ppbv
RT: 1.839 min Scan# 541
Delta R.T. 0.004 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Tgt Ion: 43 Resp: 4783

Ion	Ratio	Lower	Upper
43	100		
58	37.5	22.4	33.6#



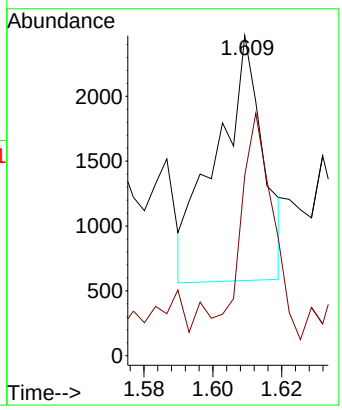


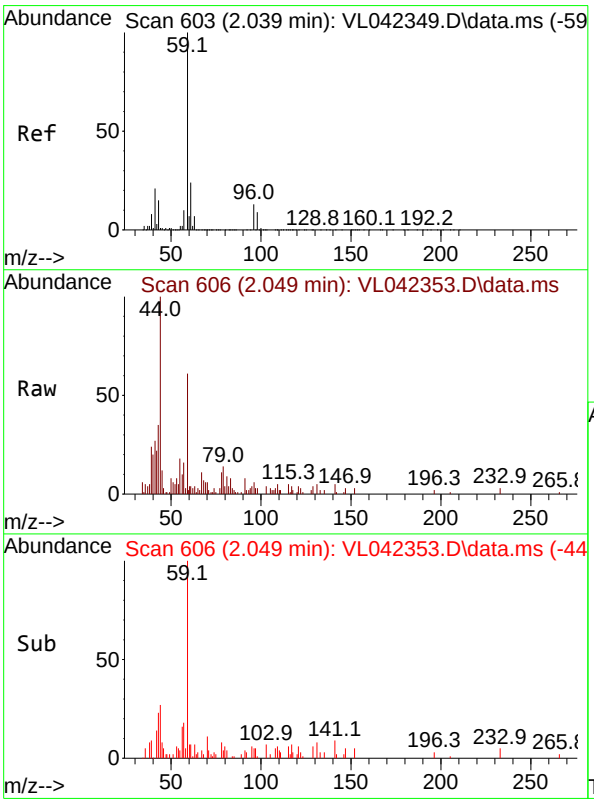
#16
1,3-Butadiene
Concen: 0.193 ppbv
RT: 1.609 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion: 39 Resp: 1776

Ion	Ratio	Lower	Upper
39	100		
54	128.7	64.9	97.3#

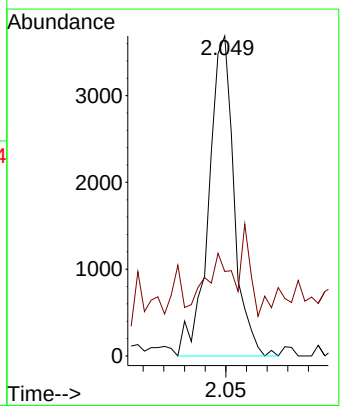


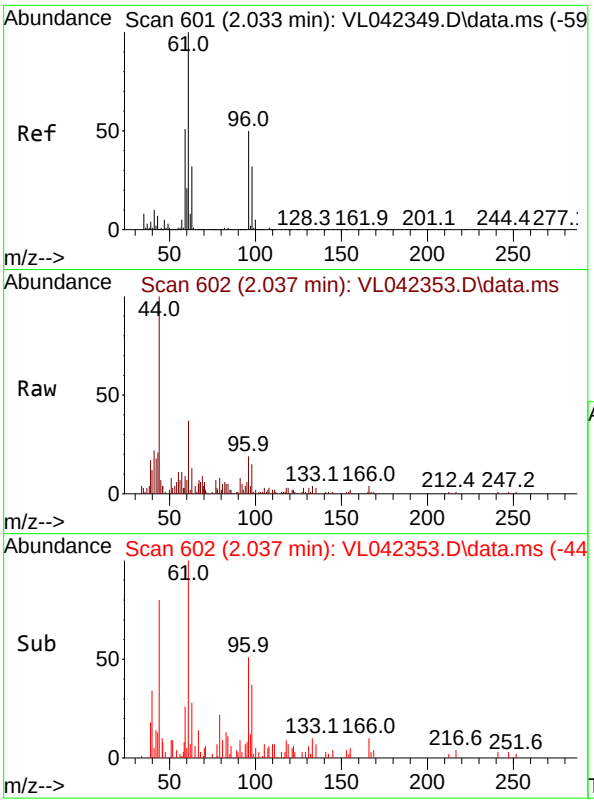


#17
tert-Butyl alcohol
Concen: 0.129 ppbv
RT: 2.049 min Scan# 606
Delta R.T. 0.010 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Tgt Ion: 59 Resp: 3130

Ion	Ratio	Lower	Upper
59	100		
57	46.5	8.7	13.1#



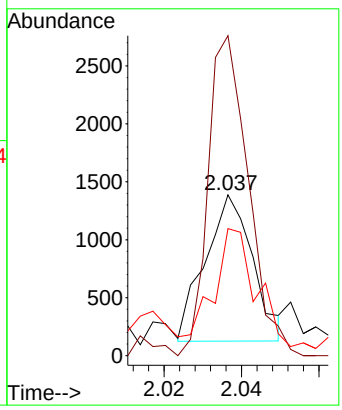


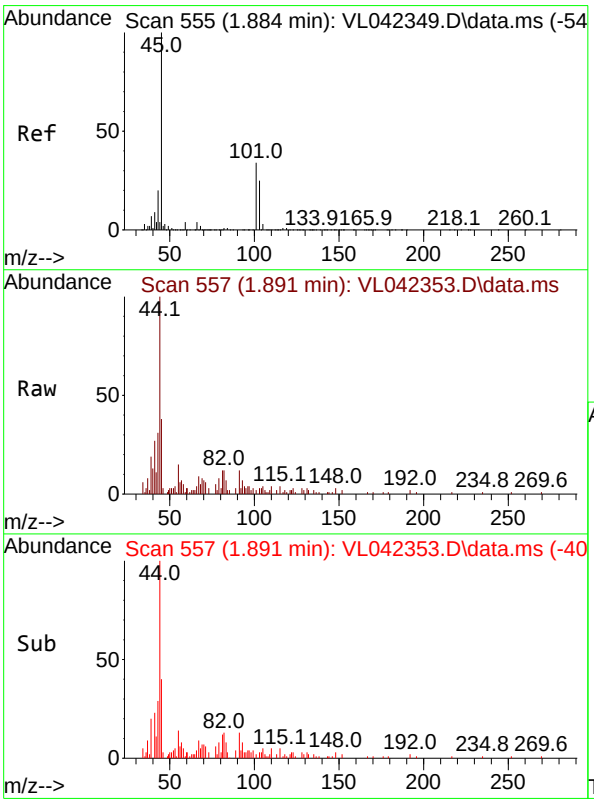
#18
1,1-Dichloroethene
Concen: 0.136 ppbv
RT: 2.037 min Scan# 6
Delta R.T. 0.004 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion: 96 Resp: 1074

Ion	Ratio	Lower	Upper
96	100		
61	222.5	160.2	240.2
98	75.2	51.0	76.4

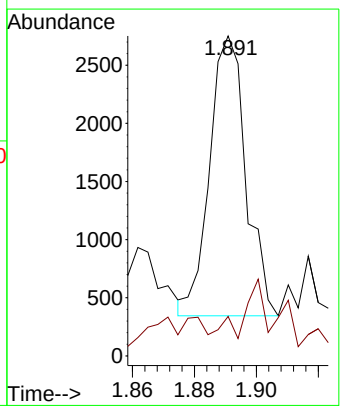


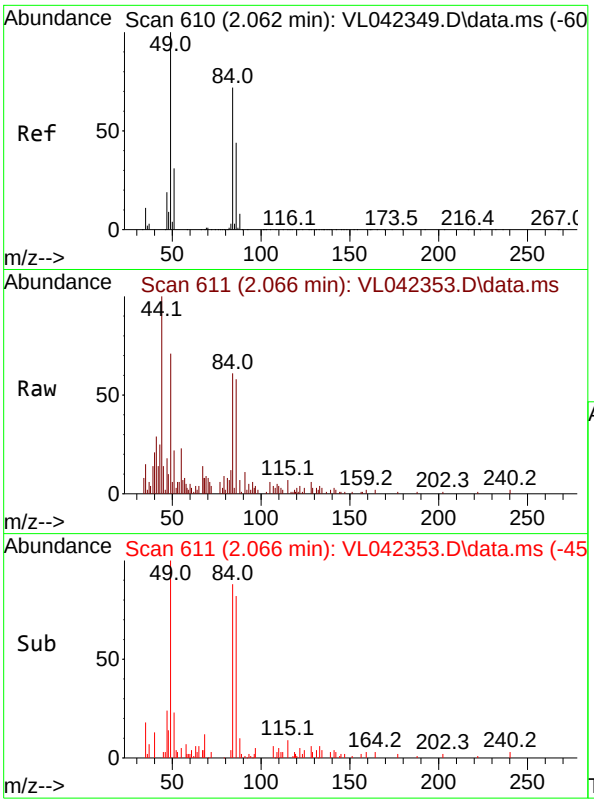


#19
Isopropyl Alcohol
Concen: 0.180 ppbv
RT: 1.891 min Scan# 557
Delta R.T. 0.007 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Tgt Ion: 45 Resp: 1958

Ion	Ratio	Lower	Upper
45	100		
58	49.5	34.5	51.7



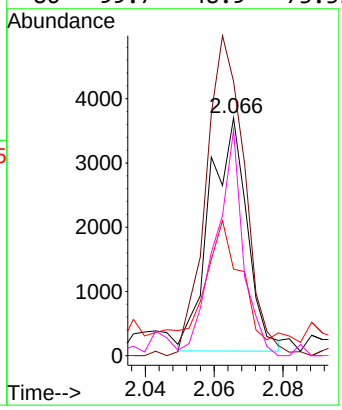


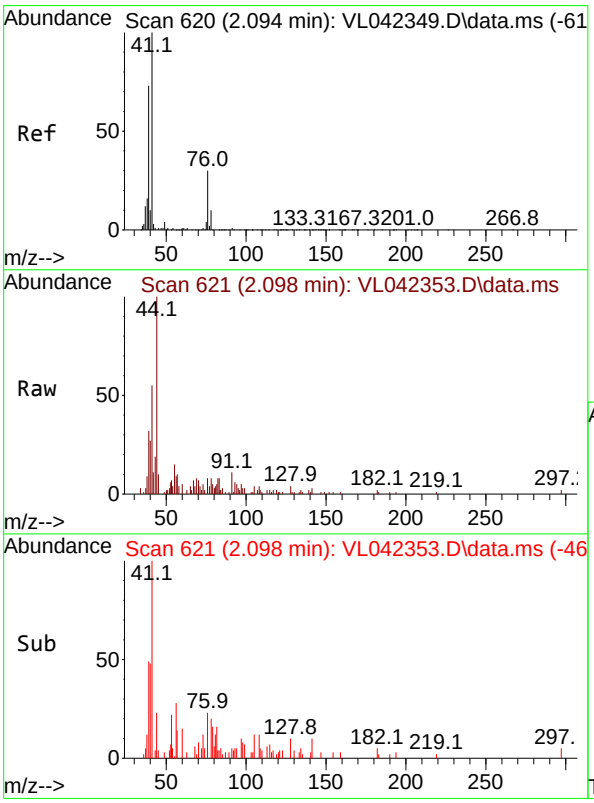
#20
Methylene Chloride
Concen: 0.358 ppbv
RT: 2.066 min Scan# 61
Delta R.T. 0.004 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion: 84 Resp: 2741

Ion	Ratio	Lower	Upper
84	100		
49	119.3	111.6	167.4
51	28.2	35.1	52.7#
86	99.7	48.9	73.3#

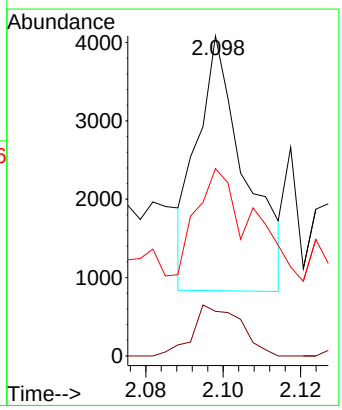


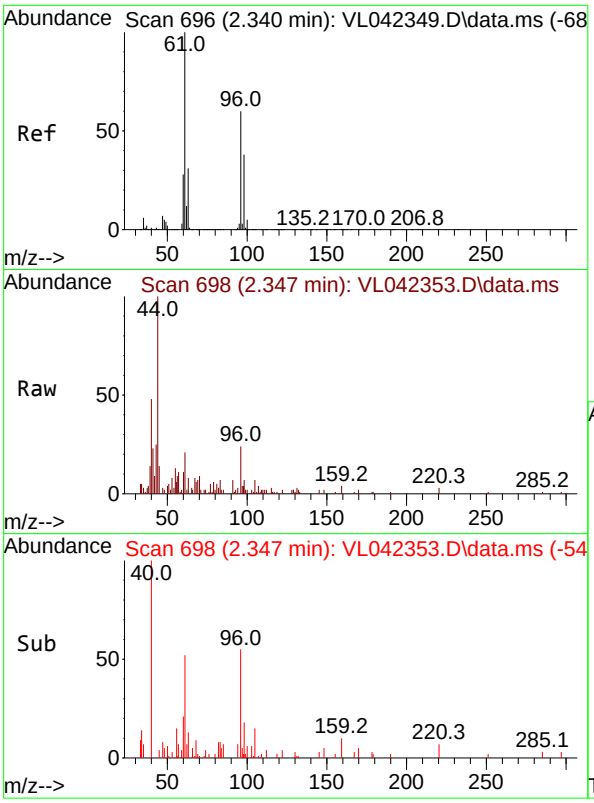


#21
Allyl Chloride
Concen: 0.206 ppbv
RT: 2.098 min Scan# 621
Delta R.T. 0.004 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Tgt Ion: 41 Resp: 2786

Ion	Ratio	Lower	Upper
41	100		
76	20.0	24.8	37.2#
39	102.2	60.6	90.8#



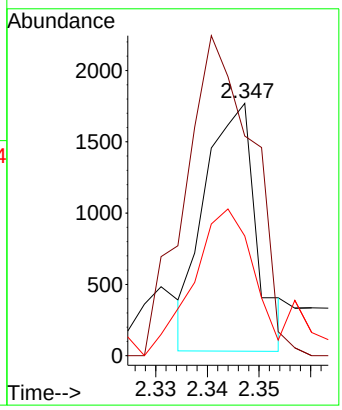


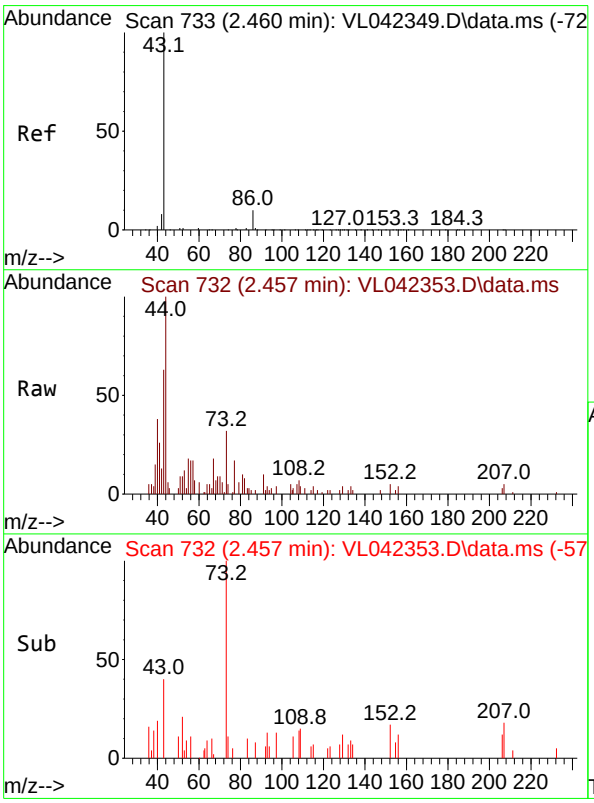
#22
trans-1,2-Dichloroethene
Concen: 0.138 ppbv
RT: 2.347 min Scan# 6
Delta R.T. 0.007 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion: 96 Resp: 1201

Ion	Ratio	Lower	Upper
96	100		
61	99.5	133.7	200.5#
98	52.9	50.3	75.5

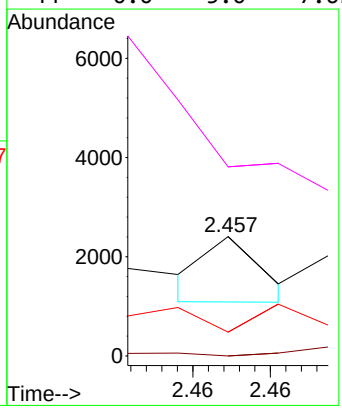


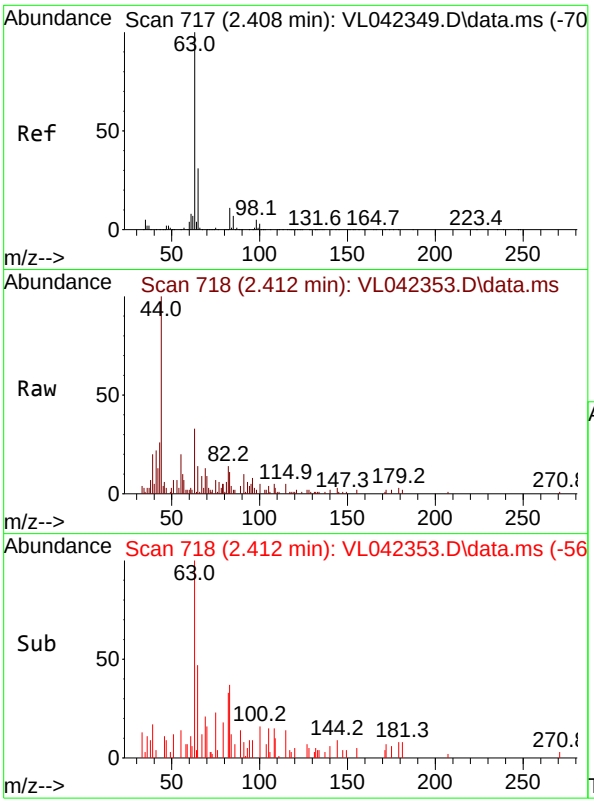


#23
Vinyl Acetate
Concen: 0.041 ppbv
RT: 2.457 min Scan# 732
Delta R.T. -0.003 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Tgt Ion: 43 Resp: 326

Ion	Ratio	Lower	Upper
43	100		
86	0.0	6.5	9.7#
42	0.0	7.8	11.8#
44	0.0	5.0	7.6#



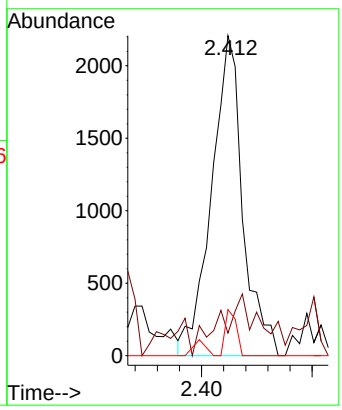


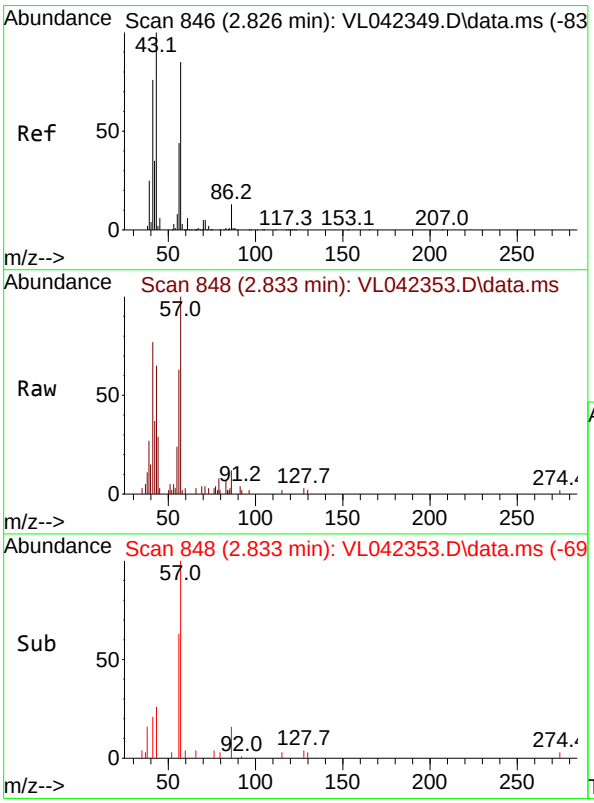
#24
1,1-Dichloroethane
Concen: 0.131 ppbv
RT: 2.412 min Scan# 7
Delta R.T. 0.004 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion: 63 Resp: 2169

Ion	Ratio	Lower	Upper
63	100		
98	0.0	2.3	6.8#
100	14.4	1.6	4.8#

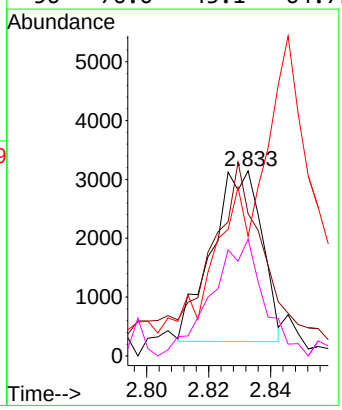


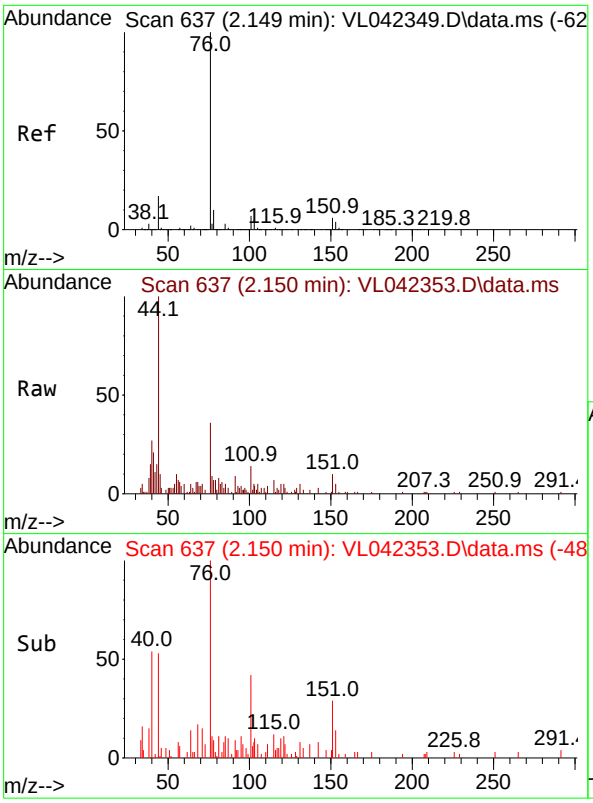


#26
Hexane
Concen: 0.167 ppbv
RT: 2.833 min Scan# 848
Delta R.T. 0.007 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Tgt Ion: 57 Resp: 3260

Ion	Ratio	Lower	Upper
57	100		
41	134.5	77.9	116.9#
43	0.0	208.4	312.6#
56	76.0	43.1	64.7#



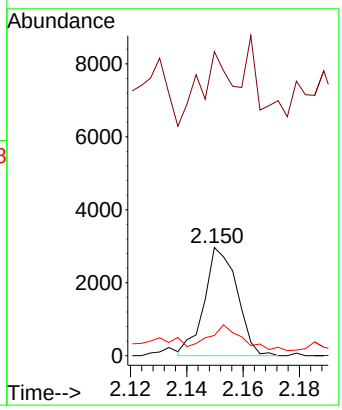


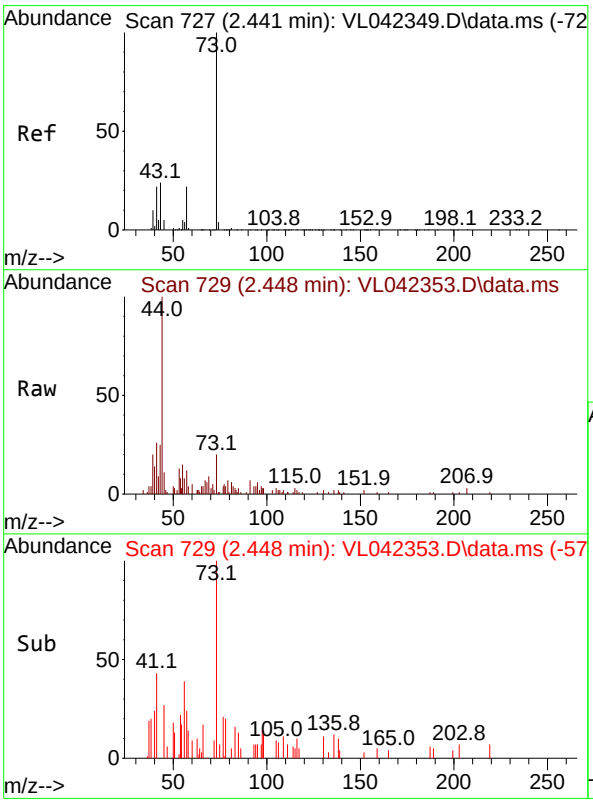
#27
Carbon Disulfide
Concen: 0.115 ppbv
RT: 2.150 min Scan# 6
Delta R.T. 0.000 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion: 76 Resp: 2396

Ion	Ratio	Lower	Upper
76	100		
44	214.1	15.5	23.3#
78	41.9	9.3	13.9#

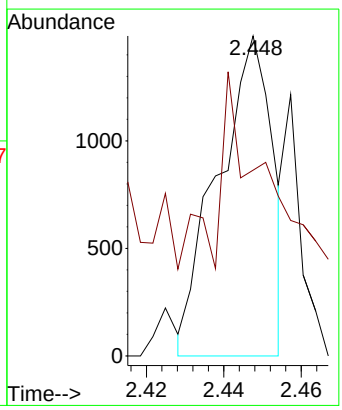


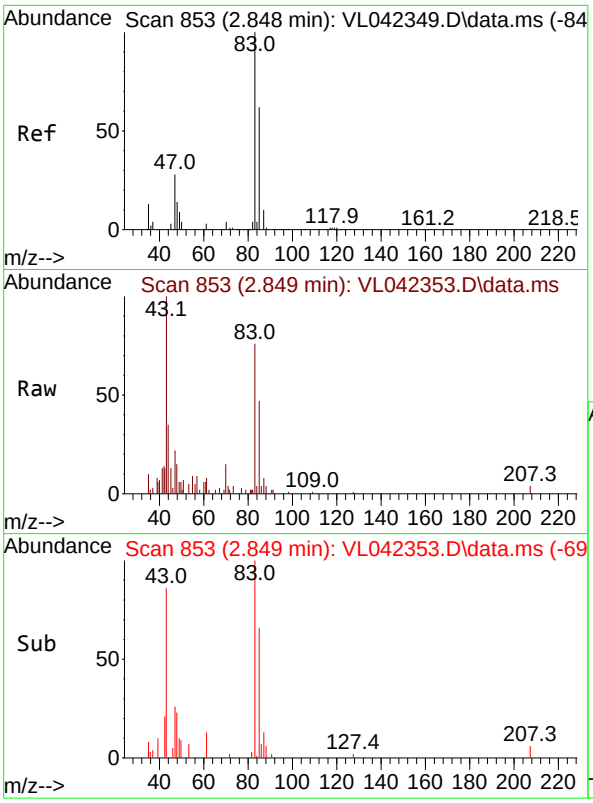


#28
Methyl tert-Butyl Ether
Concen: 0.114 ppbv
RT: 2.448 min Scan# 729
Delta R.T. 0.007 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Tgt Ion: 73 Resp: 1460

Ion	Ratio	Lower	Upper
73	100		
57	84.5	21.3	31.9#



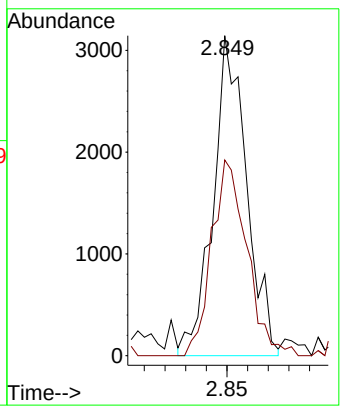


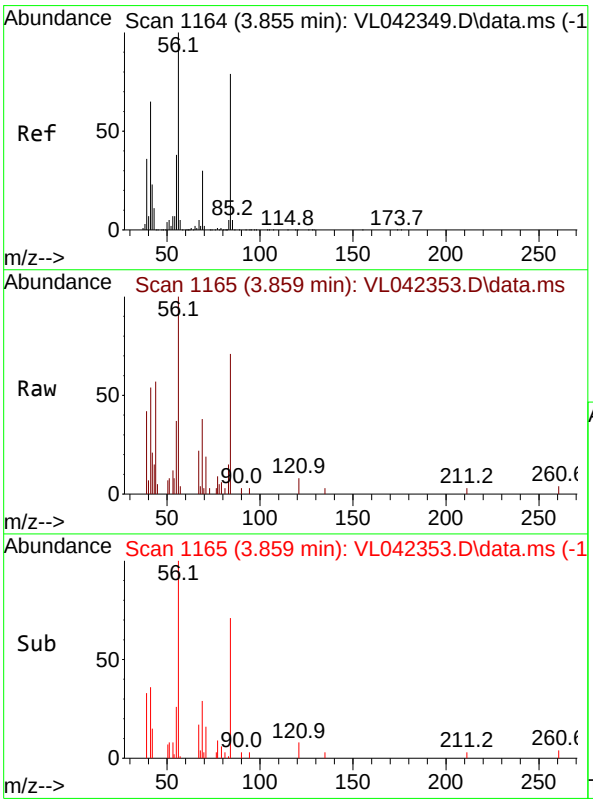
#29
Chloroform
Concen: 0.128 ppbv
RT: 2.849 min Scan# 8
Delta R.T. 0.000 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion: 83 Resp: 3542

Ion	Ratio	Lower	Upper
83	100		
85	62.5	50.0	75.0

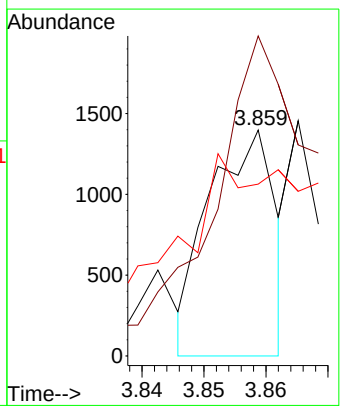


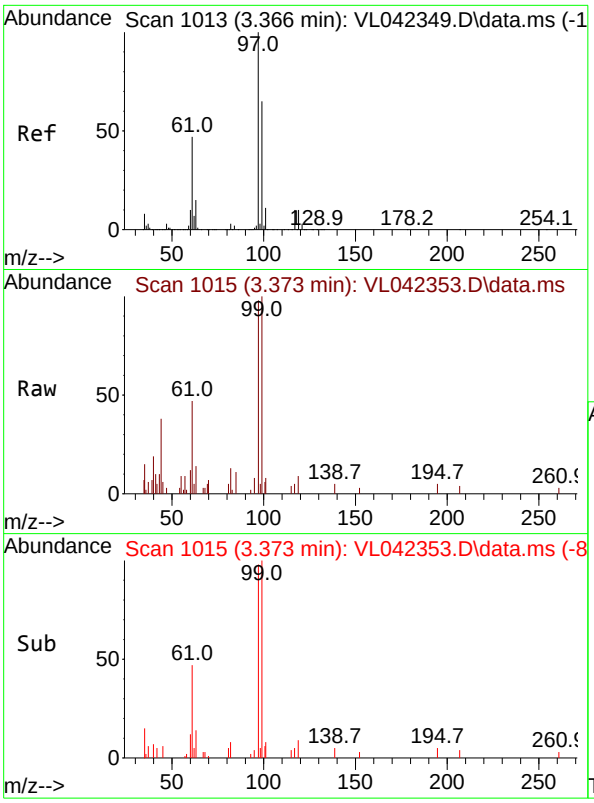


#30
Cyclohexane
Concen: 0.066 ppbv
RT: 3.859 min Scan# 1165
Delta R.T. 0.004 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Tgt Ion: 84 Resp: 1037

Ion	Ratio	Lower	Upper
84	100		
56	278.1	101.0	151.4#
41	346.5	67.4	101.0#



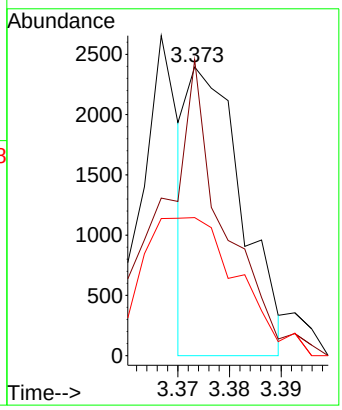


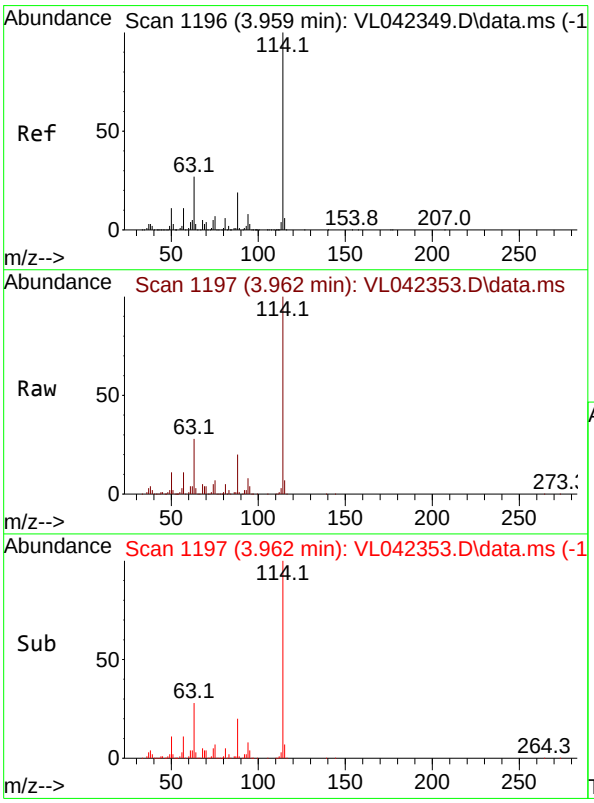
#32
1,1,1-Trichloroethane
Concen: 0.059 ppbv
RT: 3.373 min Scan# 1
Delta R.T. 0.007 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion: 97 Resp: 1734

Ion	Ratio	Lower	Upper
97	100		
99	133.4	51.0	76.4#
61	93.7	38.8	58.2#

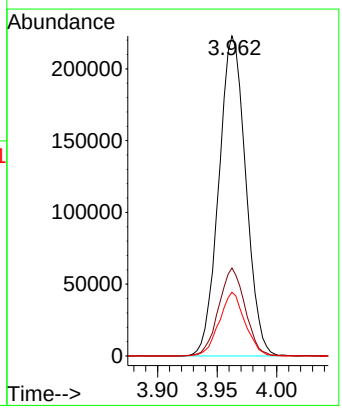


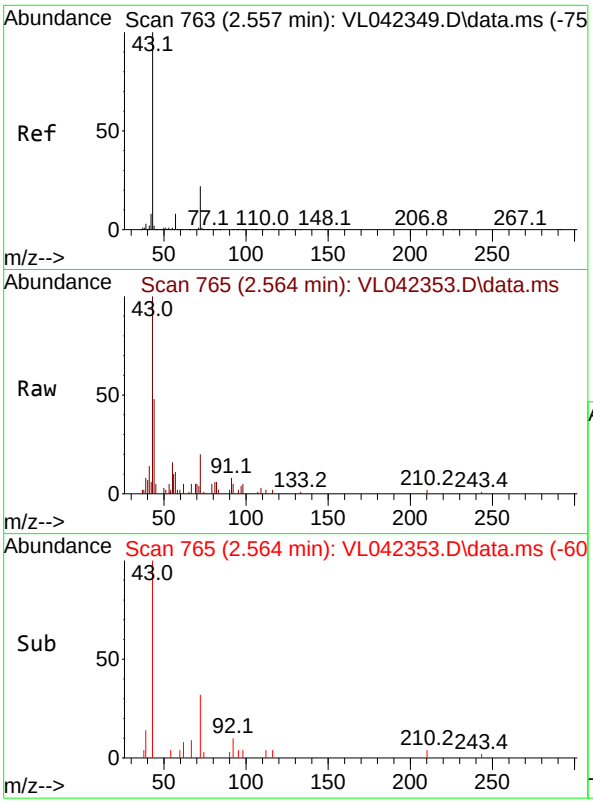


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.962 min Scan# 1197
Delta R.T. 0.004 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Tgt Ion:114 Resp: 350484

Ion	Ratio	Lower	Upper
114	100		
63	26.9	21.8	32.6
88	19.1	15.5	23.3



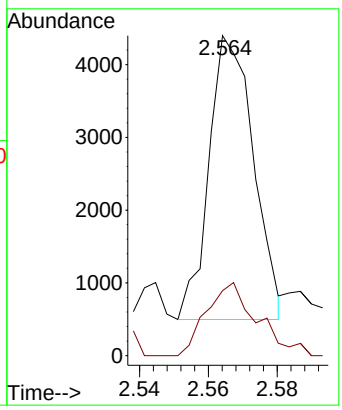


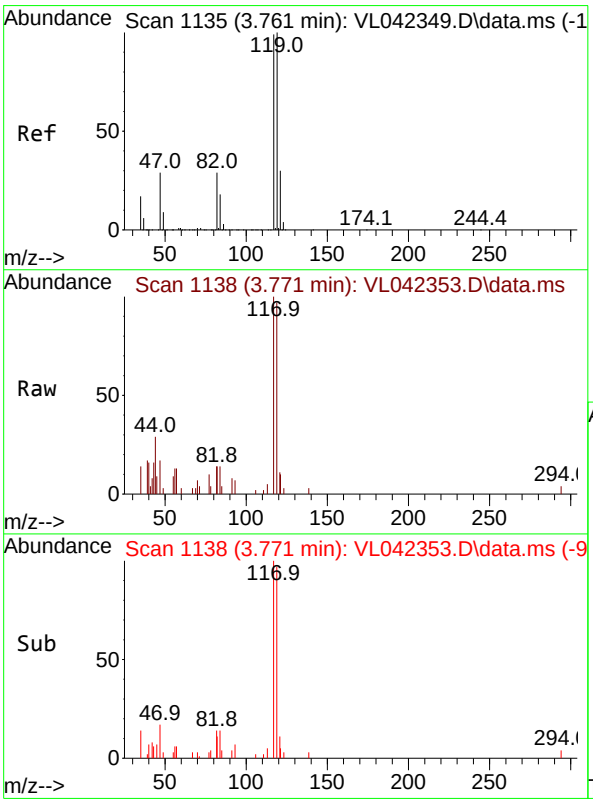
#34
2-Butanone
Concen: 0.126 ppbv
RT: 2.564 min Scan# 7
Delta R.T. 0.007 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion: 43 Resp: 3506

Ion	Ratio	Lower	Upper
43	100		
72	32.7	18.2	27.2#

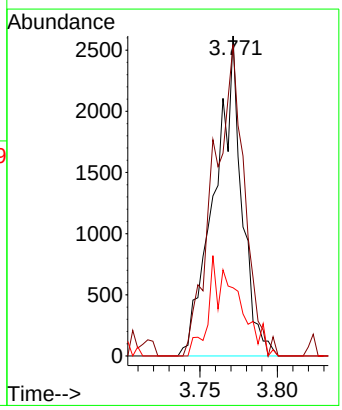


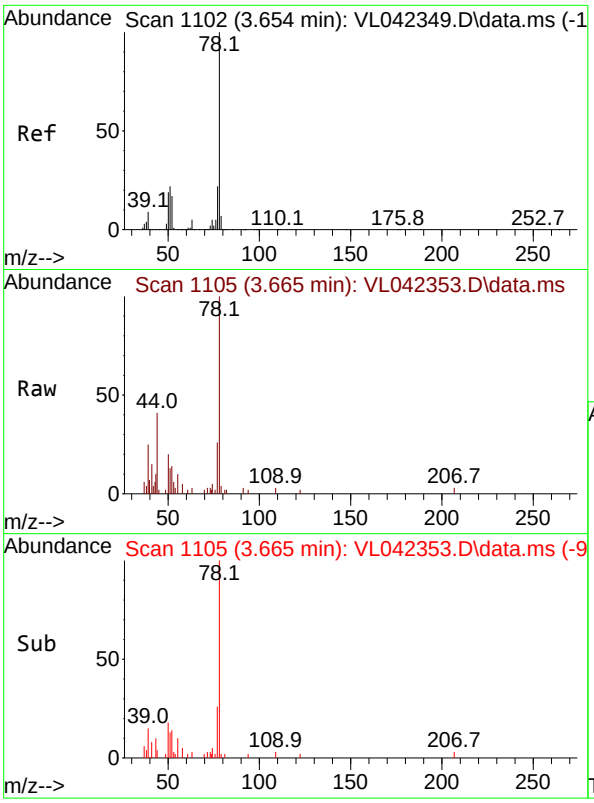


#35
Carbon Tetrachloride
Concen: 0.101 ppbv
RT: 3.771 min Scan# 1138
Delta R.T. 0.010 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Tgt Ion:117 Resp: 3204

Ion	Ratio	Lower	Upper
117	100		
119	97.3	80.5	120.7
121	21.3	24.2	36.2#



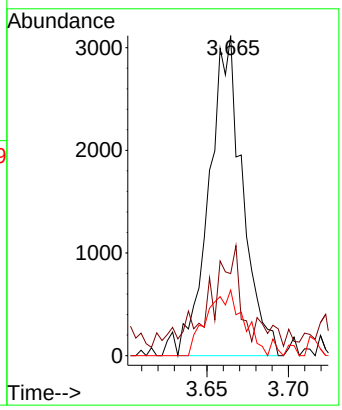


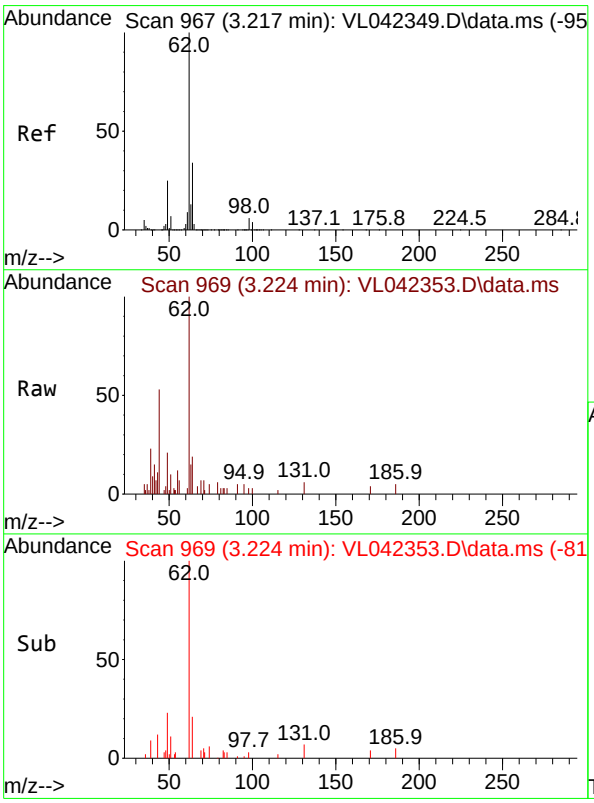
#36
Benzene
Concen: 0.117 ppbv
RT: 3.665 min Scan# 1
Delta R.T. 0.010 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion: 78 Resp: 4424

Ion	Ratio	Lower	Upper
78	100		
77	20.4	17.4	26.0
50	20.5	15.5	23.3

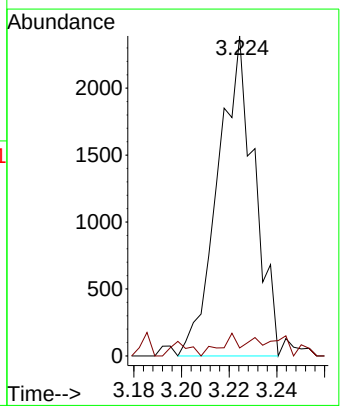


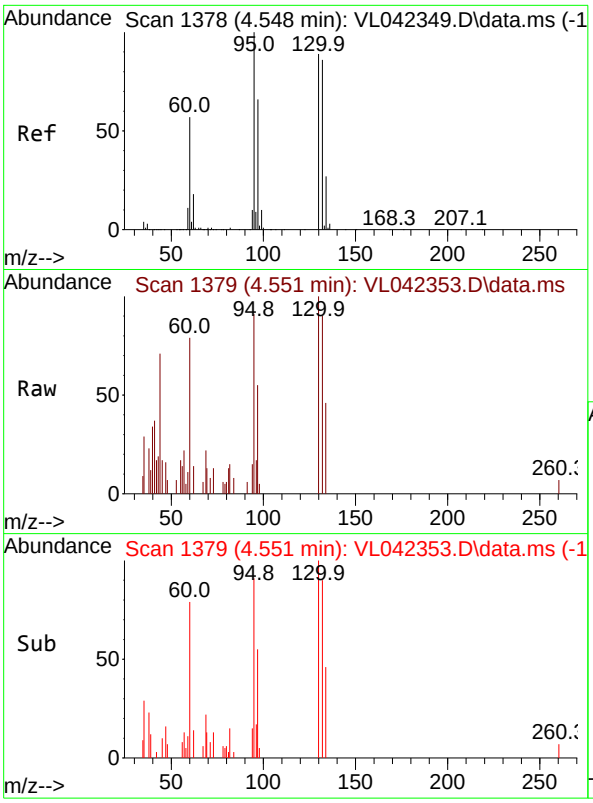


#37
1,2-Dichloroethane
Concen: 0.111 ppbv
RT: 3.224 min Scan# 969
Delta R.T. 0.007 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Tgt Ion: 62 Resp: 2523

Ion	Ratio	Lower	Upper
62	100		
98	0.0	5.1	7.7#



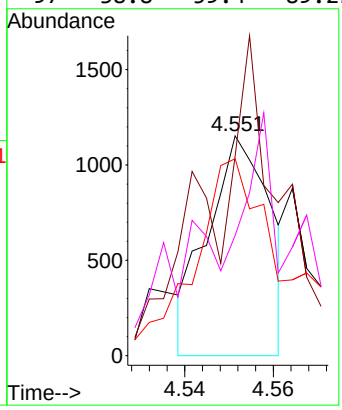


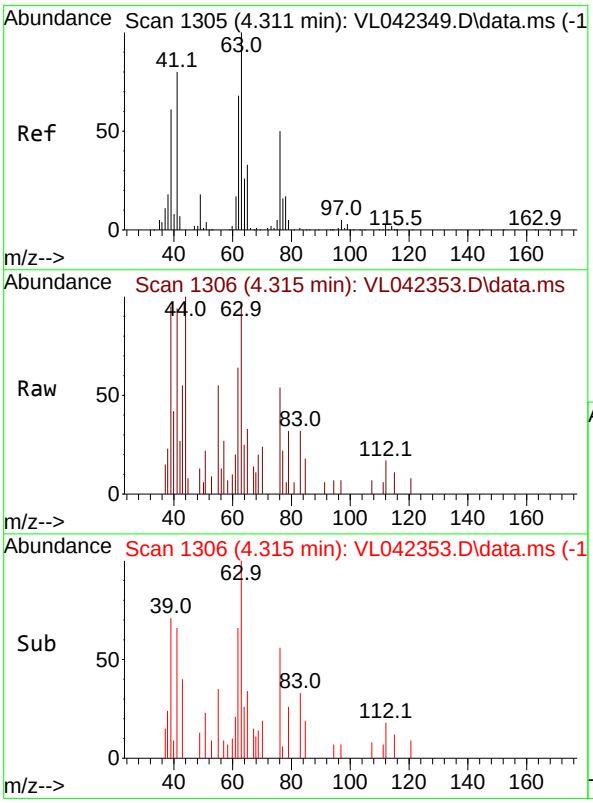
#38
Trichloroethene
Concen: 0.067 ppbv
RT: 4.551 min Scan# 1
Delta R.T. 0.004 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion:130 Resp: 1113

Ion	Ratio	Lower	Upper
130	100		
95	60.4	89.8	134.6#
132	78.4	77.7	116.5
97	38.8	59.4	89.2#

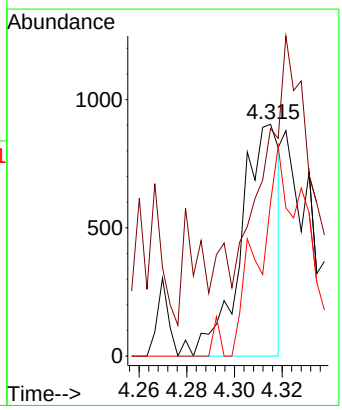


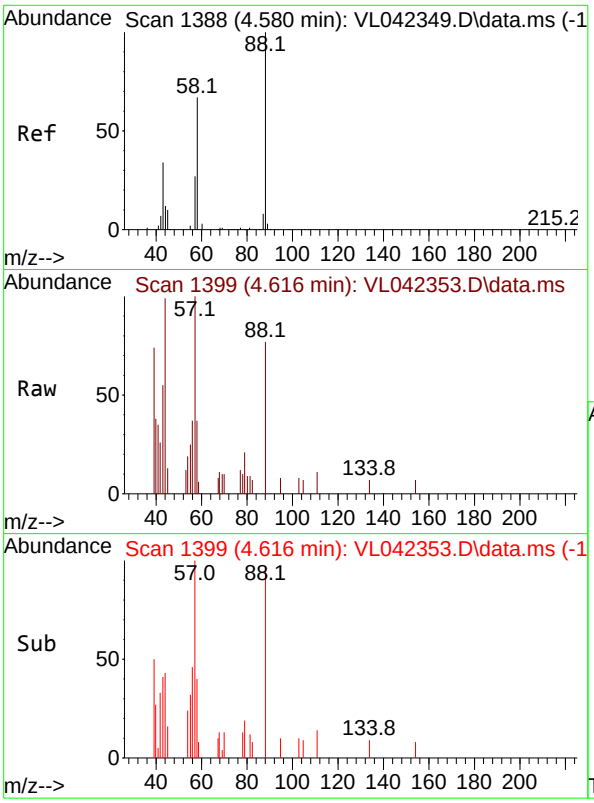


#39
1,2-Dichloropropane
Concen: 0.071 ppbv
RT: 4.315 min Scan# 1306
Delta R.T. 0.004 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Tgt Ion: 63 Resp: 1007

Ion	Ratio	Lower	Upper
63	100		
41	84.8	64.2	96.2
62	66.2	54.3	81.5



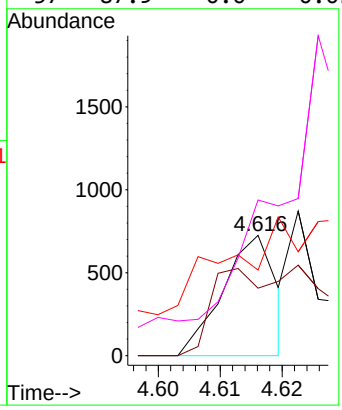


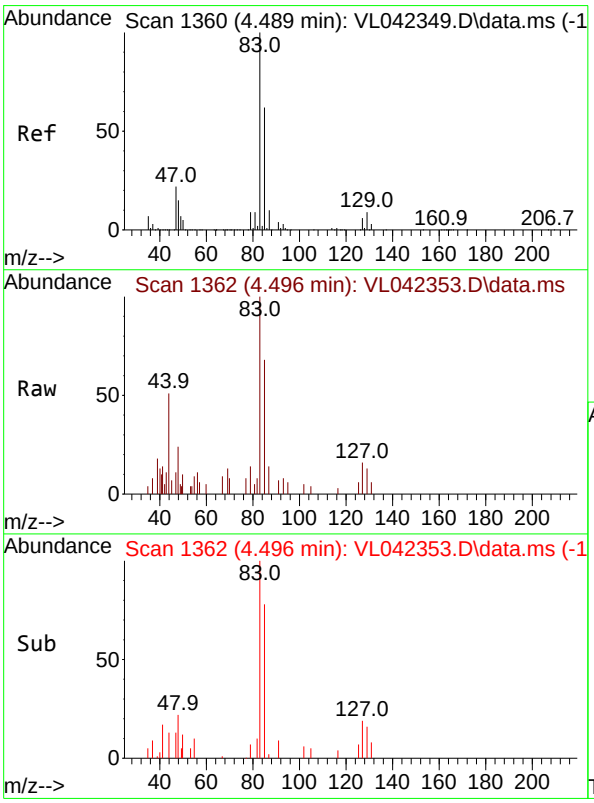
#40
1,4-Dioxane
Concen: 0.056 ppbv
RT: 4.616 min Scan# 1
Delta R.T. 0.036 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion: 88 Resp: 431

Ion	Ratio	Lower	Upper
88	100		
58	18.1	61.4	92.0#
43	247.6	23.2	34.8#
57	87.9	0.0	0.0#

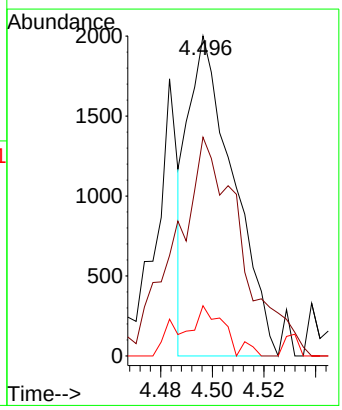


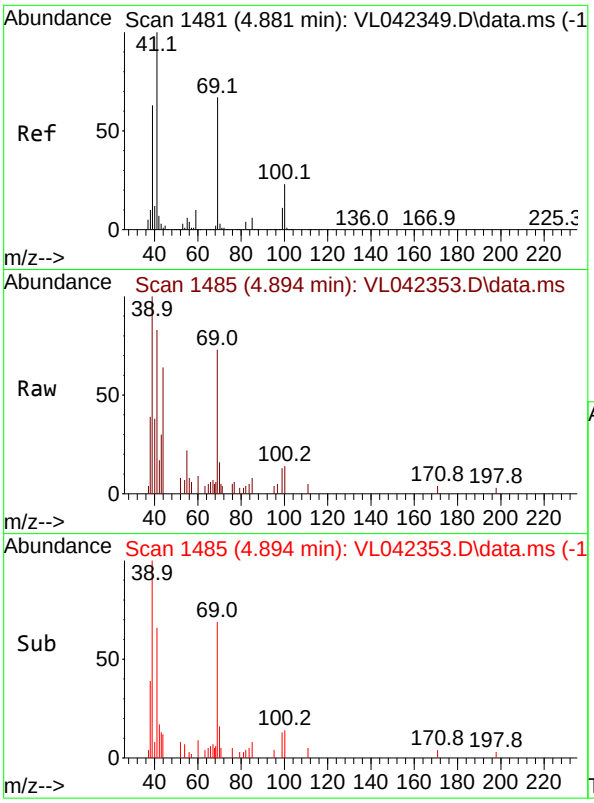


#42
Bromodichloromethane
Concen: 0.077 ppbv
RT: 4.496 min Scan# 1362
Delta R.T. 0.007 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Tgt Ion: 83 Resp: 2443

Ion	Ratio	Lower	Upper
83	100		
85	55.0	49.7	74.5
127	15.7	5.1	7.7#



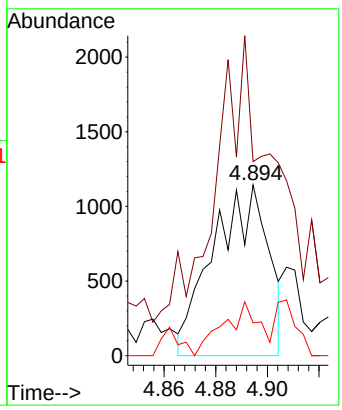


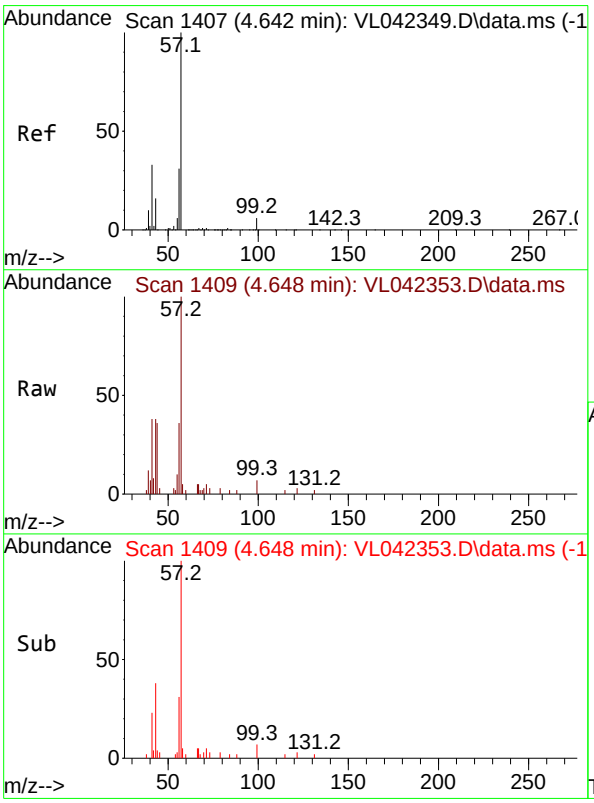
#43
Methyl Methacrylate
Concen: 0.099 ppbv
RT: 4.894 min Scan# 14
Delta R.T. 0.013 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion: 69 Resp: 1683

Ion	Ratio	Lower	Upper
69	100		
41	192.5	118.6	177.8#
100	0.0	28.2	42.2#

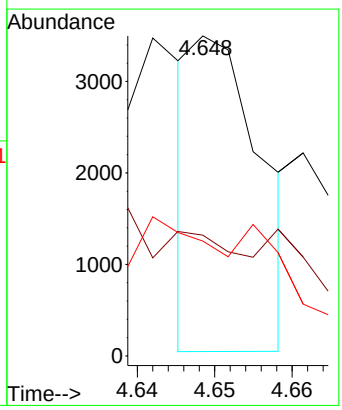


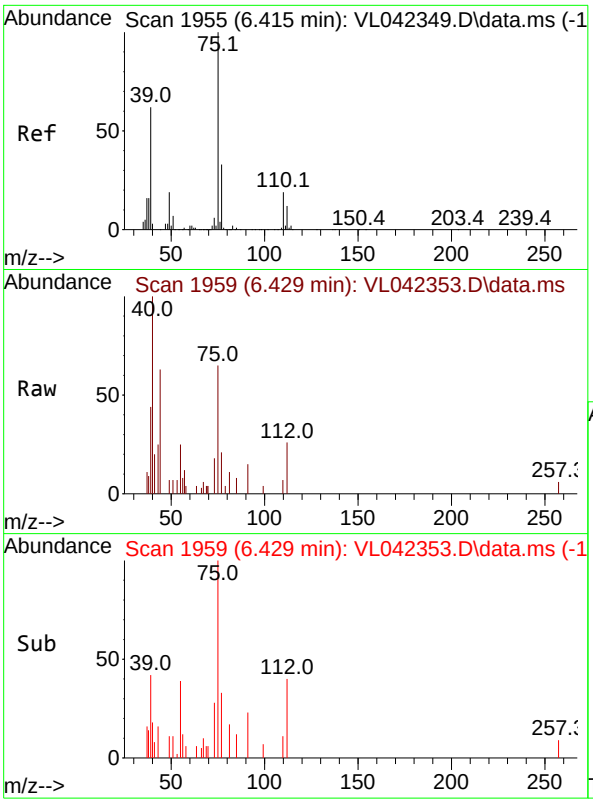


#44
2,2,4-Trimethylpentane
Concen: 0.032 ppbv
RT: 4.648 min Scan# 1409
Delta R.T. 0.007 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Tgt Ion: 57 Resp: 2115

Ion	Ratio	Lower	Upper
57	100		
41	0.0	27.2	40.8#
56	0.0	25.7	38.5#



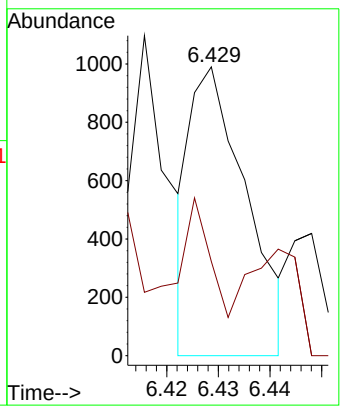


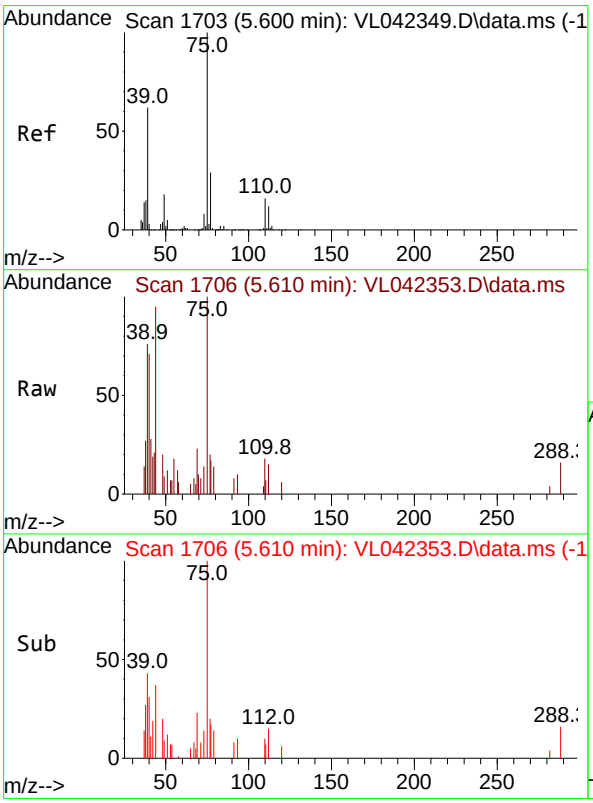
#45
t-1,3-Dichloropropene
Concen: 0.043 ppbv
RT: 6.429 min Scan# 1
Delta R.T. 0.013 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion: 75 Resp: 748

Ion	Ratio	Lower	Upper
75	100		
77	32.6	27.0	40.6

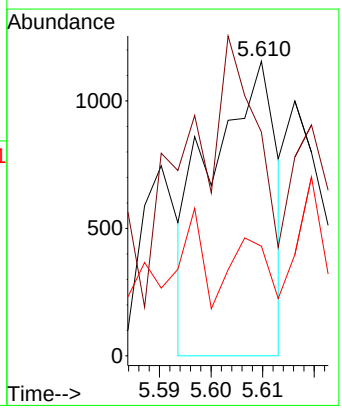


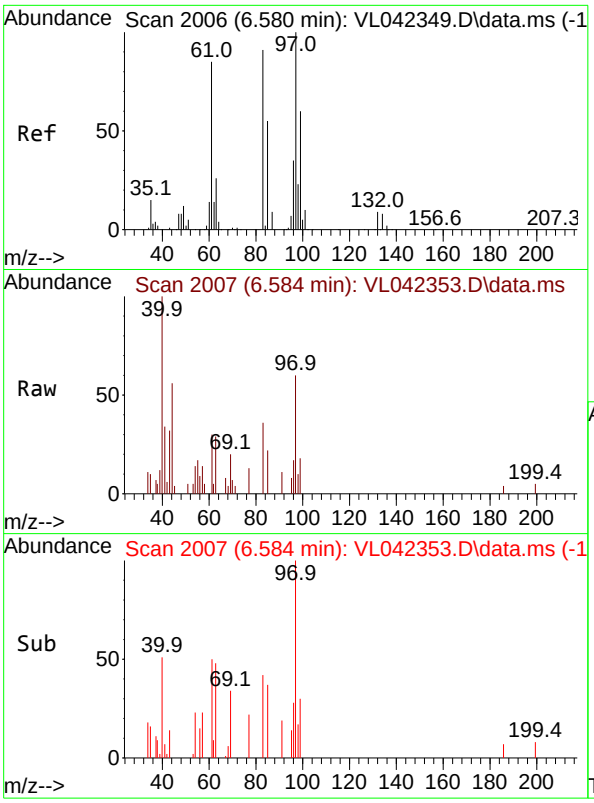


#46
cis-1,3-Dichloropropene
Concen: 0.048 ppbv
RT: 5.610 min Scan# 1706
Delta R.T. 0.010 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Tgt Ion: 75 Resp: 1032

Ion	Ratio	Lower	Upper
75	100		
39	71.3	50.0	75.0
77	32.3	23.0	34.6



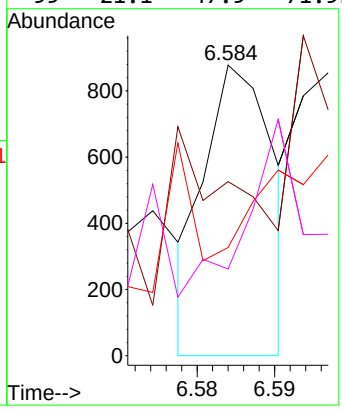


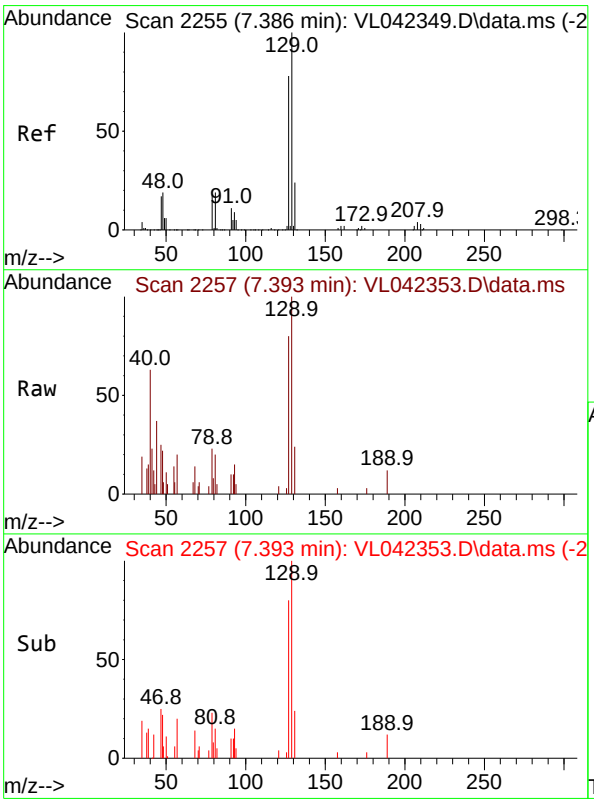
#47
1,1,2-Trichloroethane
Concen: 0.038 ppbv
RT: 6.584 min Scan# 2
Delta R.T. 0.004 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion: 97 Resp: 540

Ion	Ratio	Lower	Upper
97	100		
83	36.8	72.8	109.2#
85	0.0	44.2	66.4#
99	21.1	47.9	71.9#

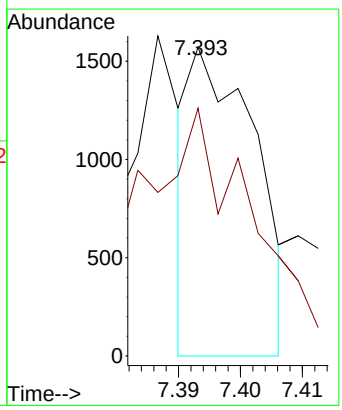


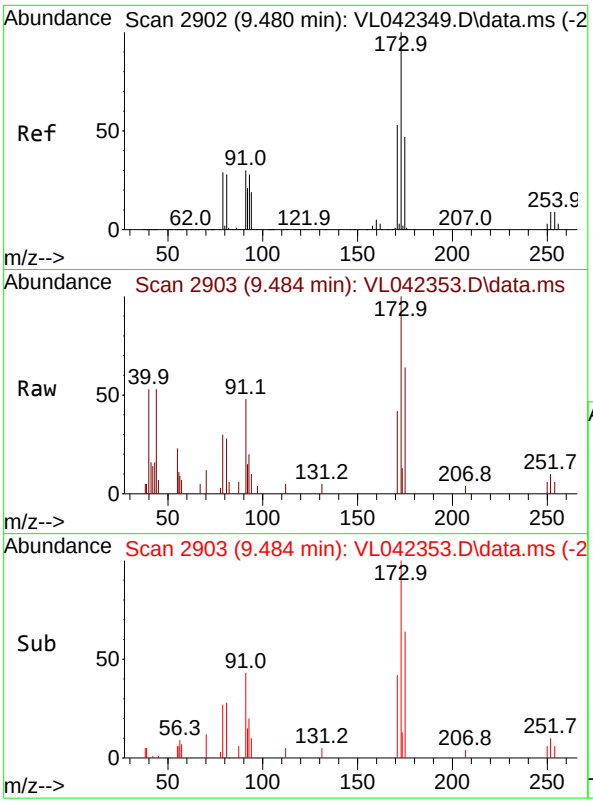


#48
Dibromochloromethane
Concen: 0.045 ppbv
RT: 7.393 min Scan# 2257
Delta R.T. 0.007 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Tgt Ion:129 Resp: 1149

Ion	Ratio	Lower	Upper
129	100		
127	167.2	39.1	117.3#



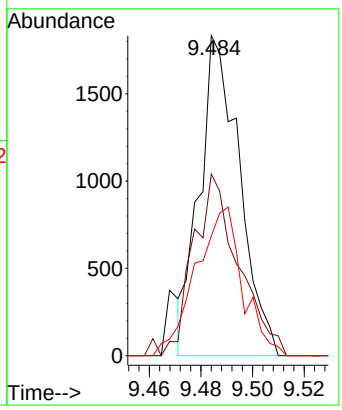


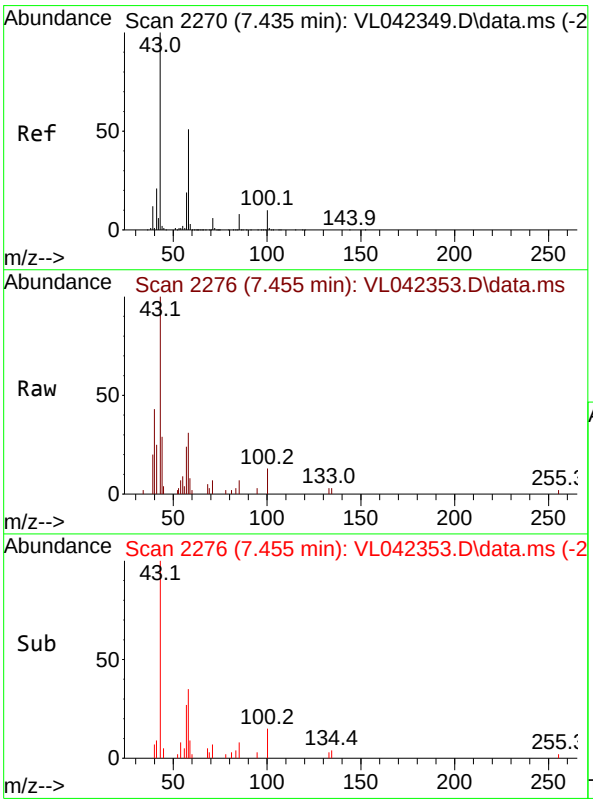
#49
Bromoform
Concen: 0.089 ppbv
RT: 9.484 min Scan# 2
Delta R.T. 0.004 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion:173 Resp: 1973

Ion	Ratio	Lower	Upper
173	100		
175	64.7	38.2	57.2#
171	54.2	40.9	61.3

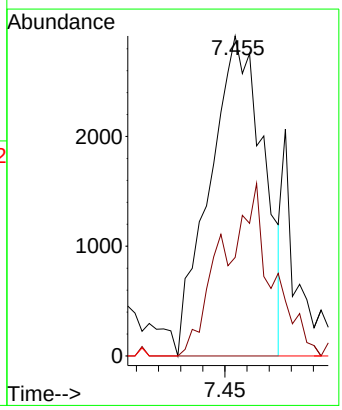


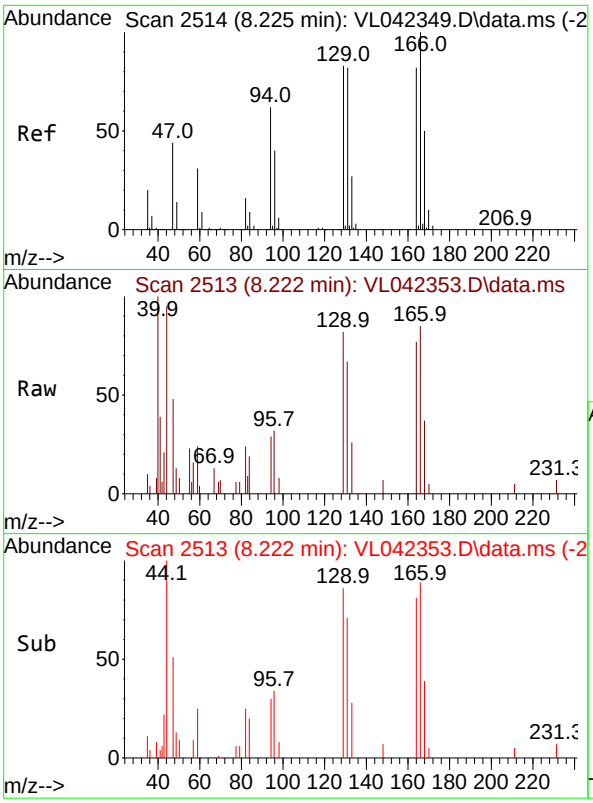


#51
2-Hexanone
Concen: 0.118 ppbv
RT: 7.455 min Scan# 2276
Delta R.T. 0.020 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Tgt Ion: 43 Resp: 4915

Ion	Ratio	Lower	Upper
43	100		
58	49.9	40.2	60.4
98	0.0	0.1	0.1#



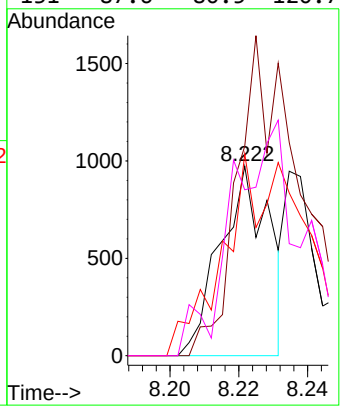


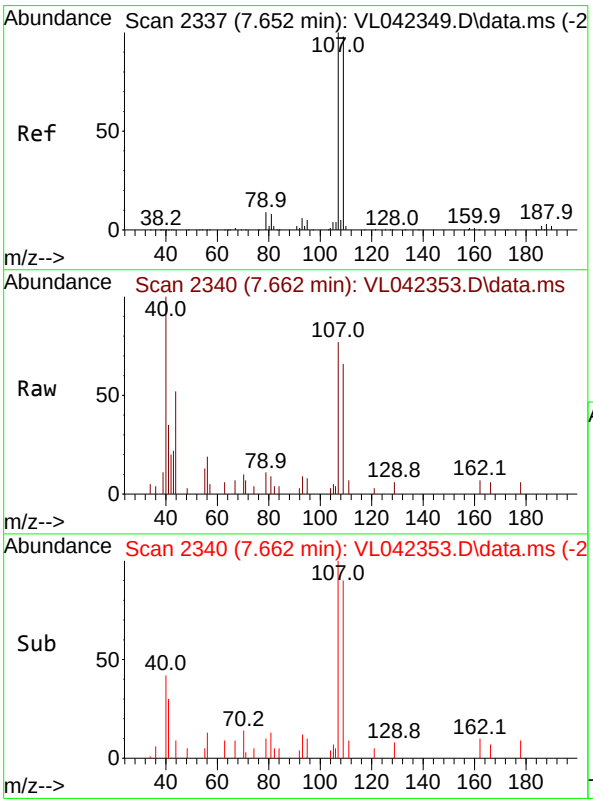
#52
Tetrachloroethene
Concen: 0.065 ppbv
RT: 8.222 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion:164 Resp: 957

Ion	Ratio	Lower	Upper
164	100		
166	110.6	98.2	147.2
129	88.3	81.8	122.8
131	87.6	80.5	120.7

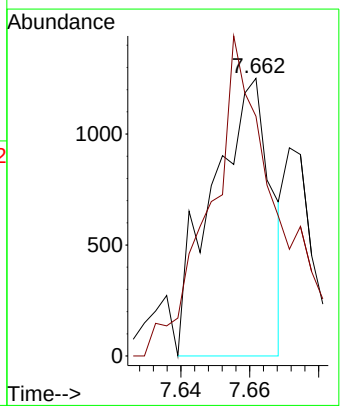


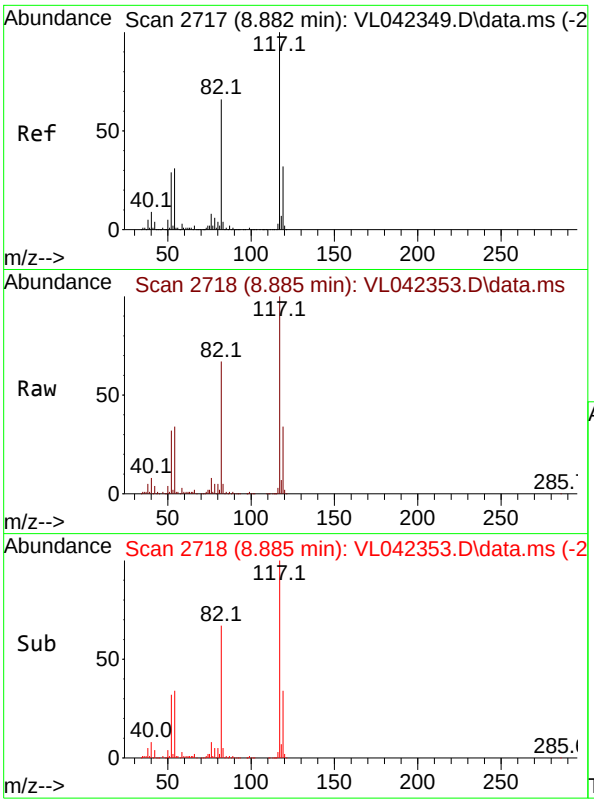


#54
1,2-Dibromoethane
Concen: 0.072 ppbv
RT: 7.662 min Scan# 2340
Delta R.T. 0.010 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Tgt Ion:107 Resp: 1470

Ion	Ratio	Lower	Upper
107	100		
109	72.7	78.2	117.4#



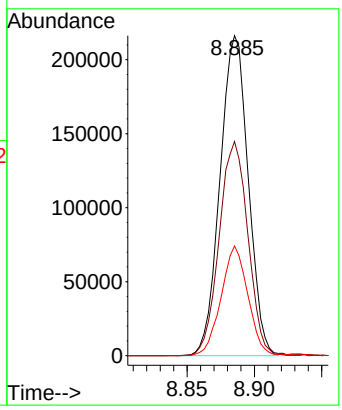


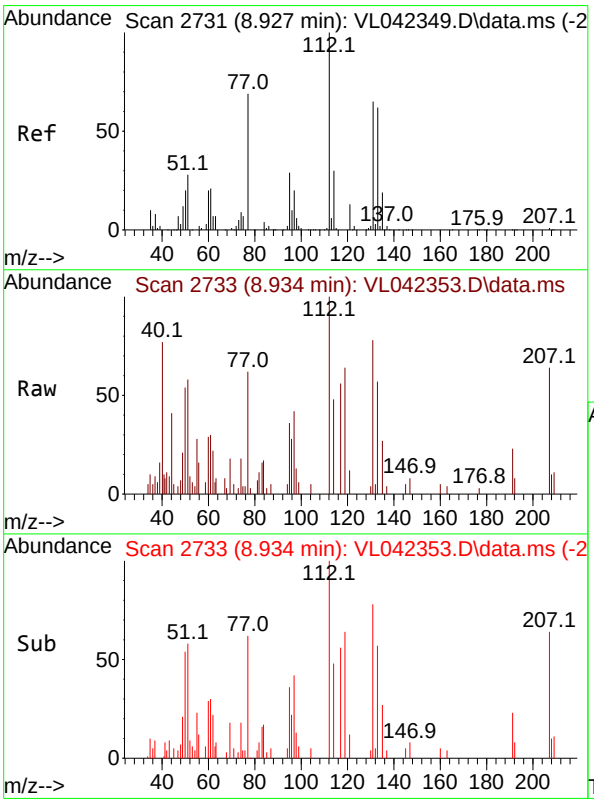
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.885 min Scan# 2
Delta R.T. 0.004 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion:117 Resp: 315004

Ion	Ratio	Lower	Upper
117	100		
82	68.1	57.8	86.6
119	33.0	25.2	37.8

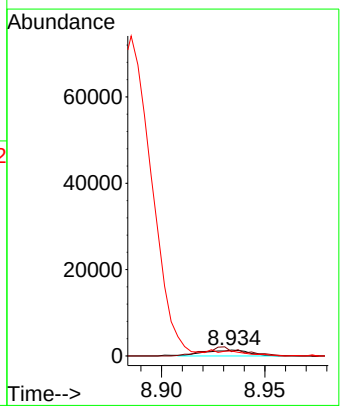


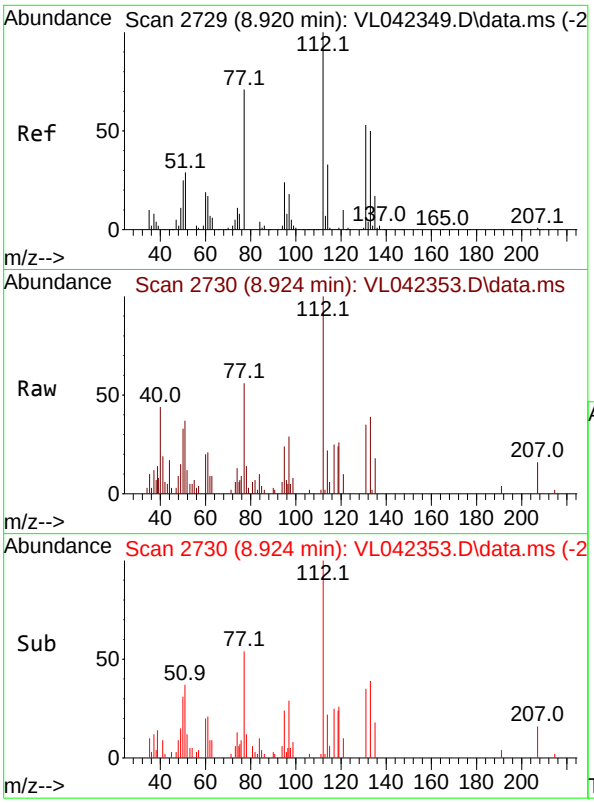


#56
1,1,1,2-Tetrachloroethane
Concen: 0.107 ppbv
RT: 8.934 min Scan# 2733
Delta R.T. 0.007 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Tgt Ion:131 Resp: 2031

Ion	Ratio	Lower	Upper
131	100		
133	134.2	78.3	117.5#
119	0.0	48.7	73.1#



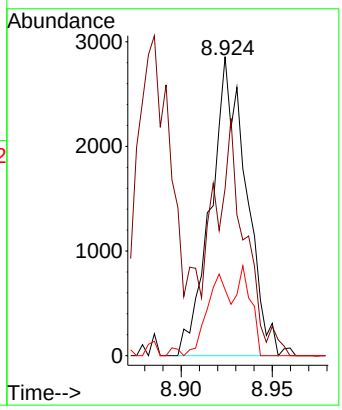


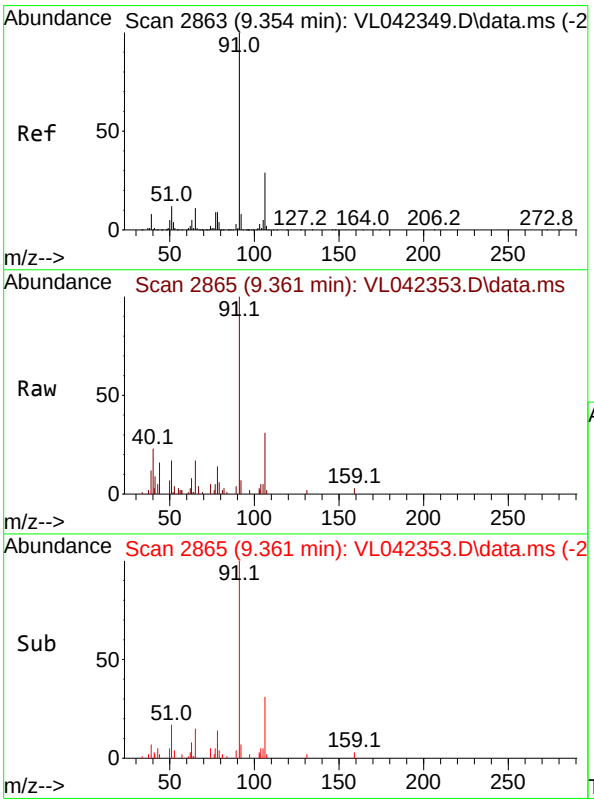
#57
Chlorobenzene
Concen: 0.117 ppbv
RT: 8.924 min Scan# 2
Delta R.T. 0.004 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion:112 Resp: 3842

Ion	Ratio	Lower	Upper
112	100		
77	50.6	57.8	86.6#
114	22.1	29.3	35.9#

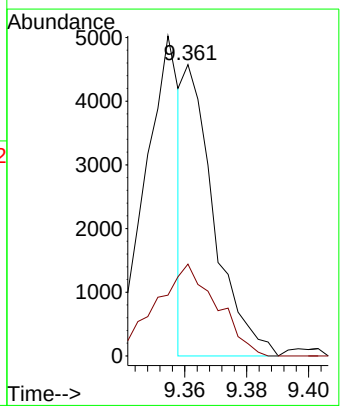


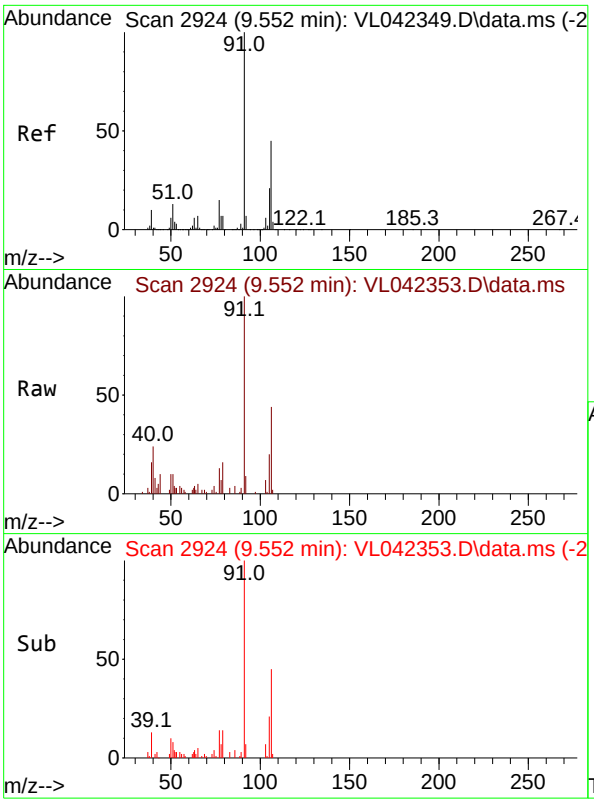


#58
Ethyl Benzene
Concen: 0.050 ppbv
RT: 9.361 min Scan# 2865
Delta R.T. 0.007 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Tgt Ion: 91 Resp: 3105

Ion	Ratio	Lower	Upper
91	100		
106	31.5	23.0	34.4



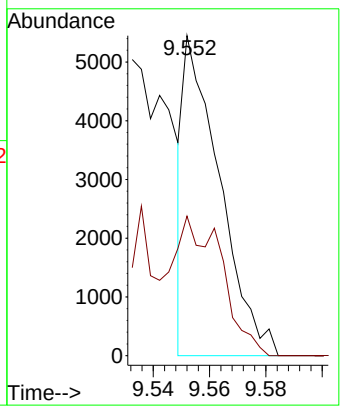


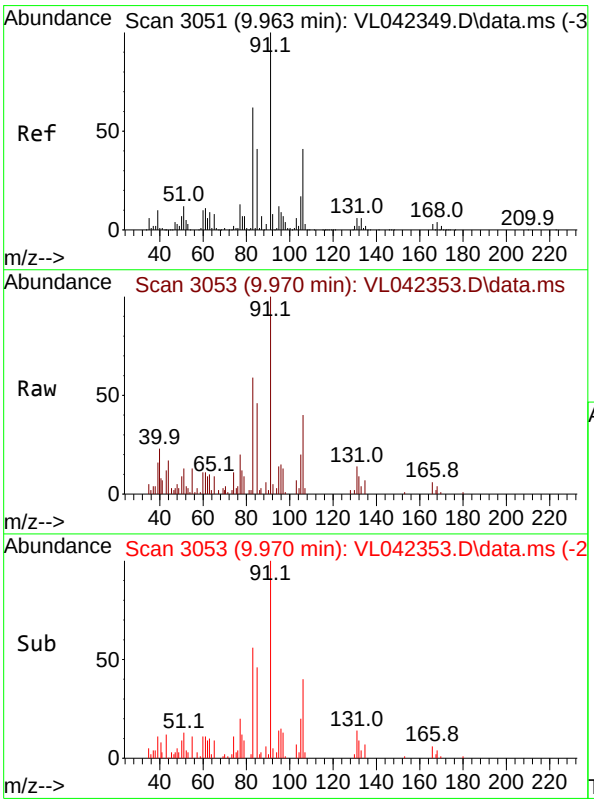
#59
m/p-Xylene
Concen: 0.096 ppbv
RT: 9.552 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion: 91 Resp: 4844

Ion	Ratio	Lower	Upper
91	100		
106	0.0	35.4	53.2#

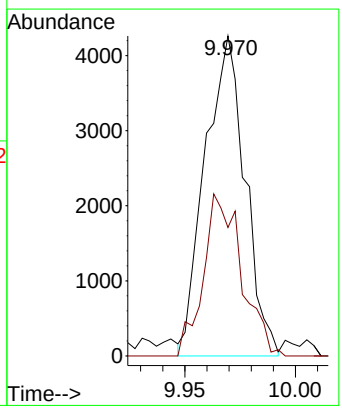


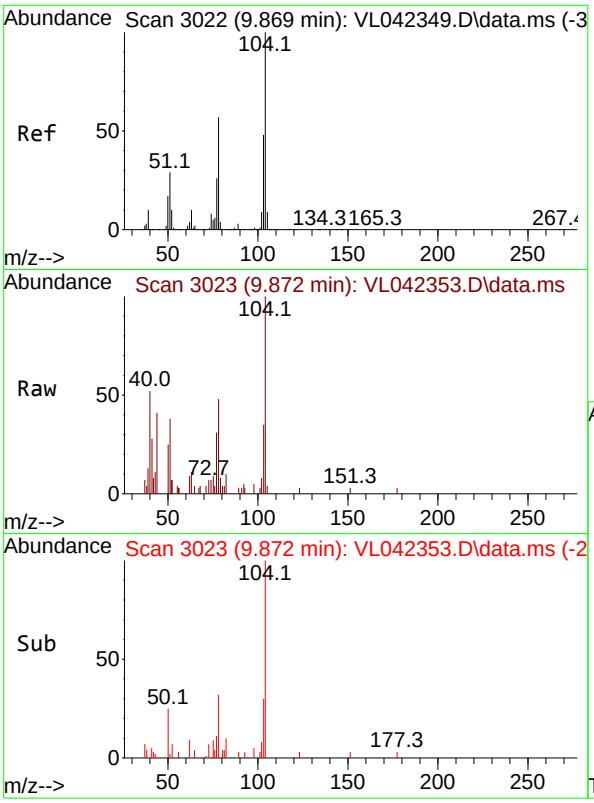


#60
o-Xylene
Concen: 0.106 ppbv
RT: 9.970 min Scan# 3053
Delta R.T. 0.007 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Tgt Ion: 91 Resp: 5359

Ion	Ratio	Lower	Upper
91	100		
106	48.3	21.1	63.4



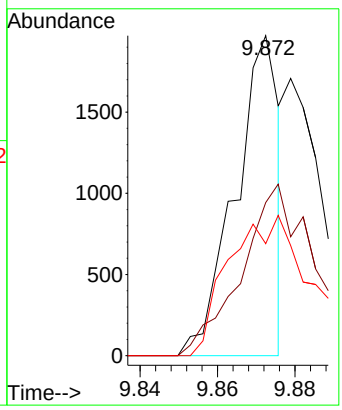


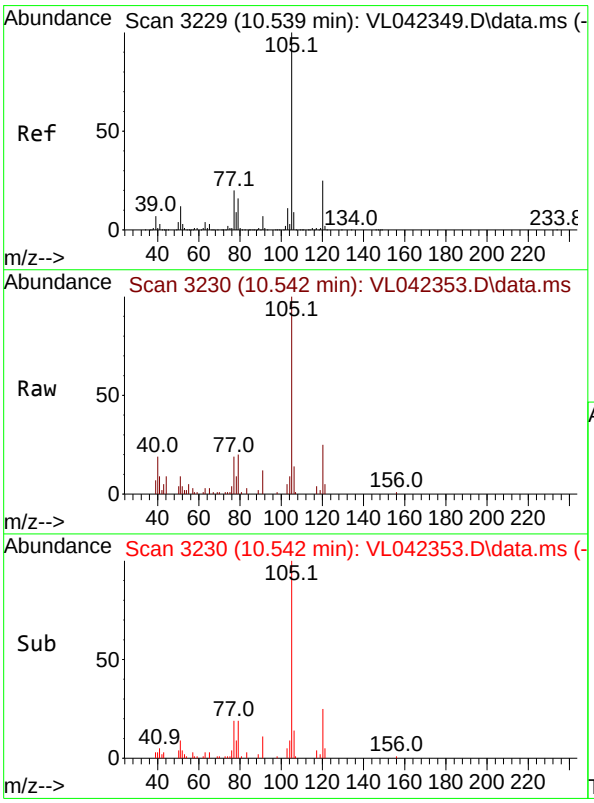
#61
Styrene
Concen: 0.064 ppbv
RT: 9.872 min Scan# 3
Delta R.T. 0.004 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion:104 Resp: 1549

Ion	Ratio	Lower	Upper
104	100		
78	0.0	44.6	66.8#
103	0.0	37.4	56.0#

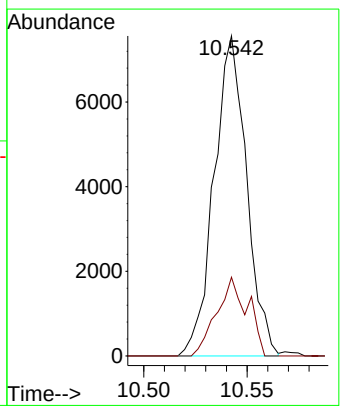


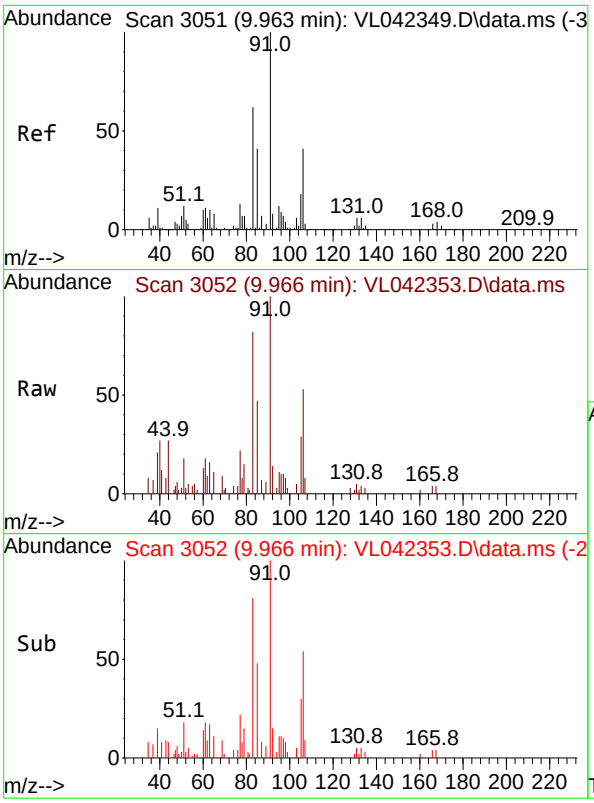


#62
Isopropylbenzene
Concen: 0.111 ppbv
RT: 10.542 min Scan# 3230
Delta R.T. 0.004 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Tgt Ion:105 Resp: 8285

Ion	Ratio	Lower	Upper
105	100		
120	23.5	19.8	29.8



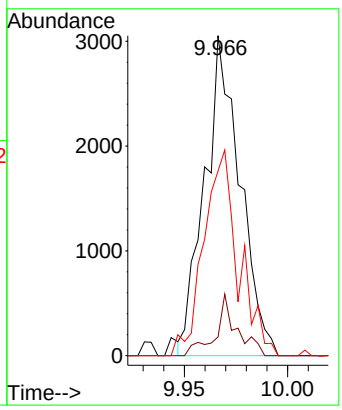


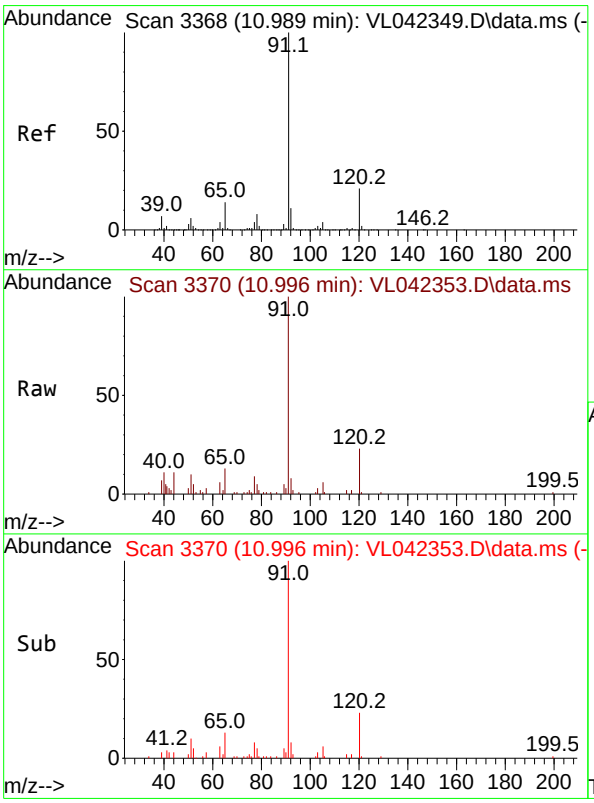
#63
1,1,2,2-Tetrachloroethane
Concen: 0.111 ppbv
RT: 9.966 min Scan# 3
Delta R.T. 0.004 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion: 83 Resp: 3646

Ion	Ratio	Lower	Upper
83	100		
131	11.4	4.5	13.7
85	62.7	32.4	97.0

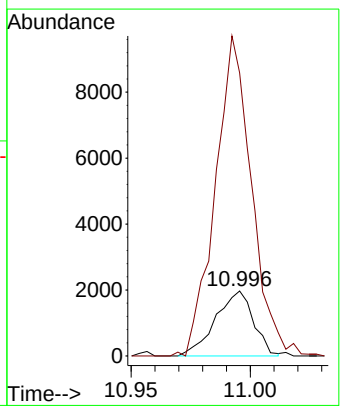


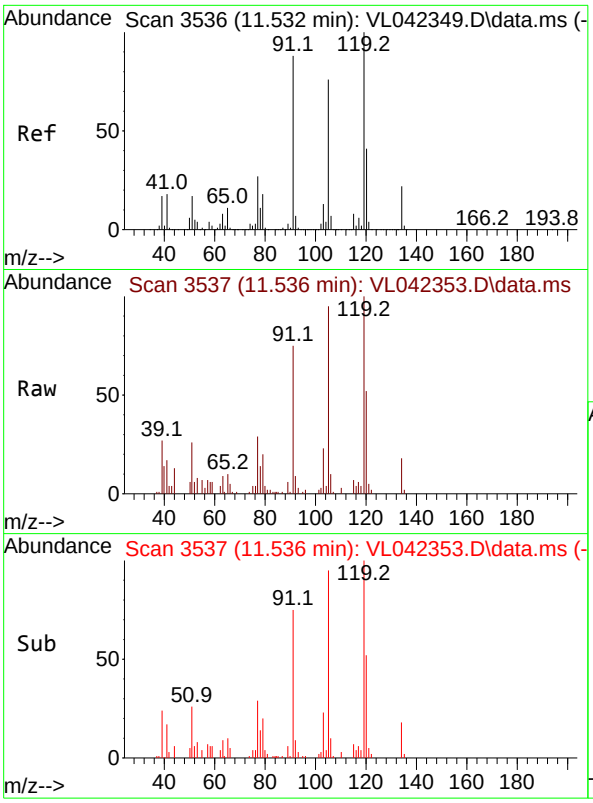


#64
n-propylbenzene
Concen: 0.117 ppbv
RT: 10.996 min Scan# 3370
Delta R.T. 0.007 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Tgt Ion:120 Resp: 2186

Ion	Ratio	Lower	Upper
120	100		
91	471.4	392.4	588.6



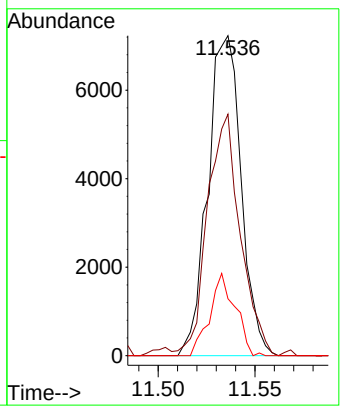


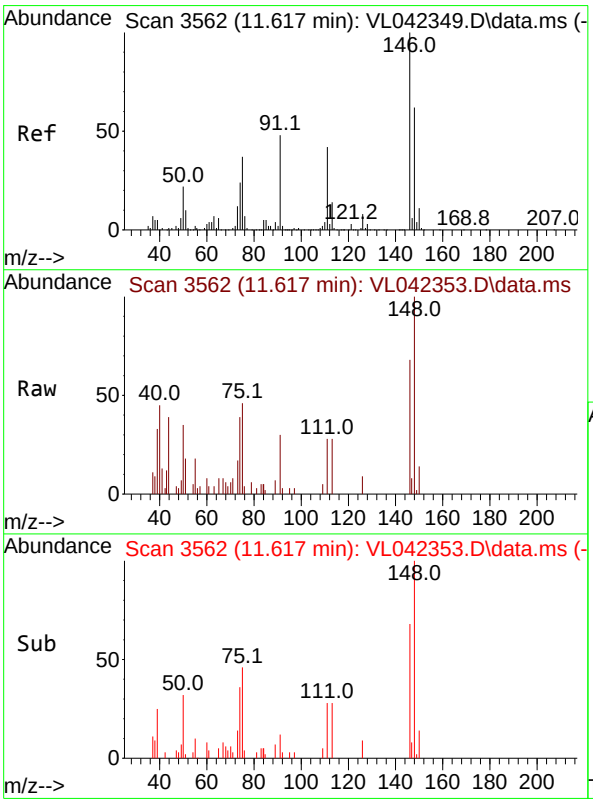
#65
tert-Butylbenzene
Concen: 0.127 ppbv
RT: 11.536 min Scan# 3
Delta R.T. 0.004 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion:119 Resp: 8656

Ion	Ratio	Lower	Upper
119	100		
91	77.2	74.6	111.8
134	19.6	18.8	28.2

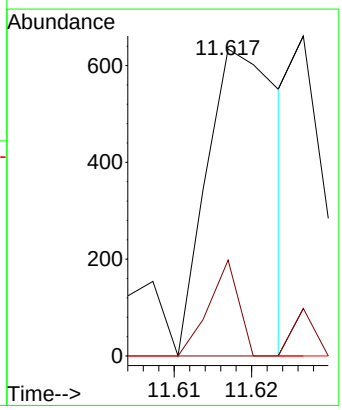


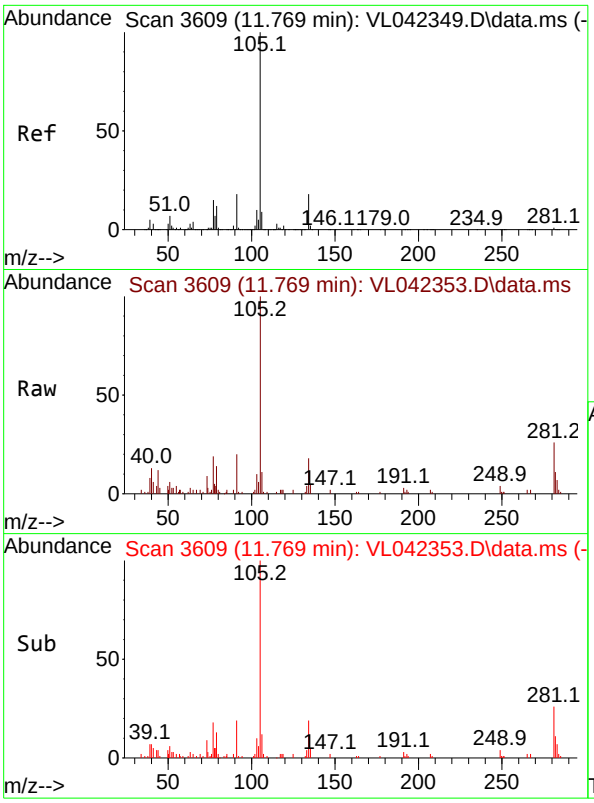


#66
Benzyl Chloride
Concen: 0.055 ppbv
RT: 11.617 min Scan# 3562
Delta R.T. 0.000 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Tgt Ion: 91 Resp: 414

Ion	Ratio	Lower	Upper
91	100		
126	23.2	11.8	17.6#
128	0.0	4.5	6.7#



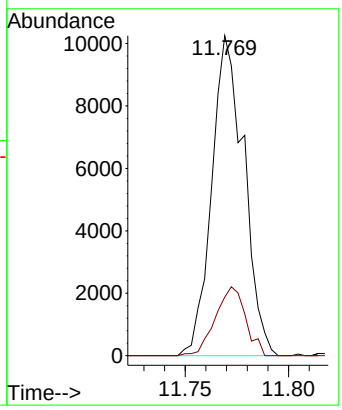


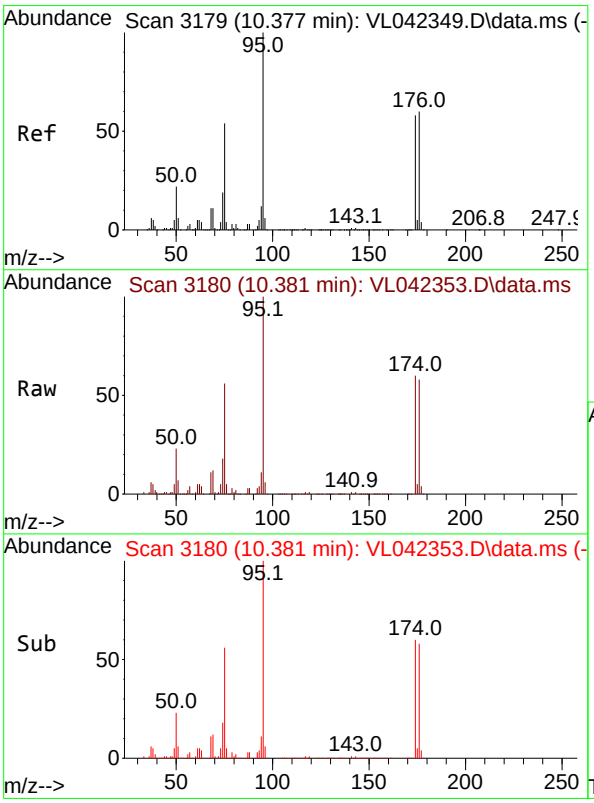
#67
sec-Butylbenzene
Concen: 0.117 ppbv
RT: 11.769 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion:105 Resp: 11126

Ion	Ratio	Lower	Upper
105	100		
134	20.2	14.6	21.8

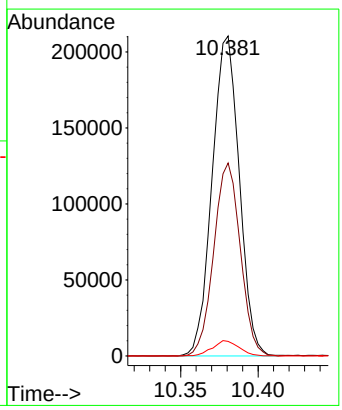


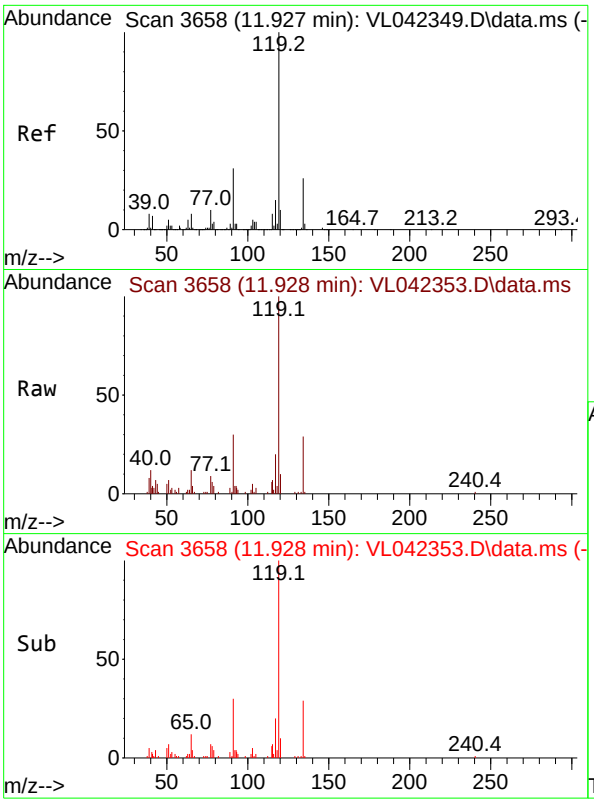


#68
1-Bromo-4-Fluorobenzene
Concen: 9.906 ppbv
RT: 10.381 min Scan# 3180
Delta R.T. 0.004 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Tgt Ion: 95 Resp: 256417

Ion	Ratio	Lower	Upper
95	100		
174	59.3	48.5	72.7
175	4.7	3.7	5.5



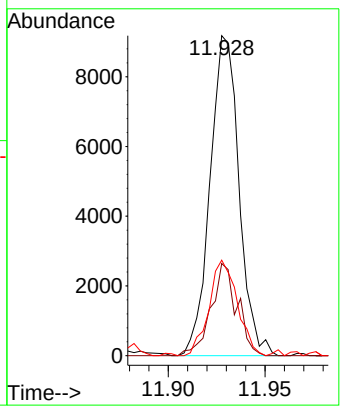


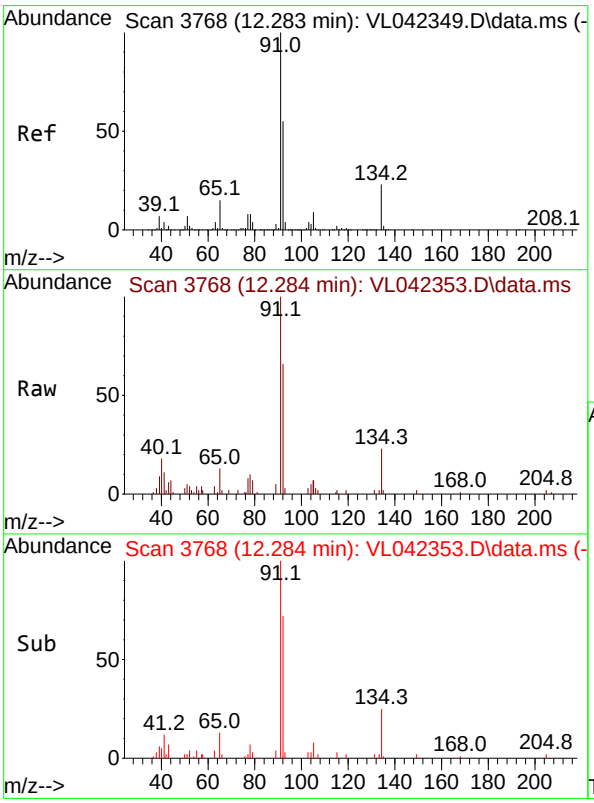
#69
p-Isopropyltoluene
Concen: 0.115 ppbv
RT: 11.928 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion:119 Resp: 9534

Ion	Ratio	Lower	Upper
119	100		
134	26.0	20.0	30.0
91	31.6	24.4	36.6

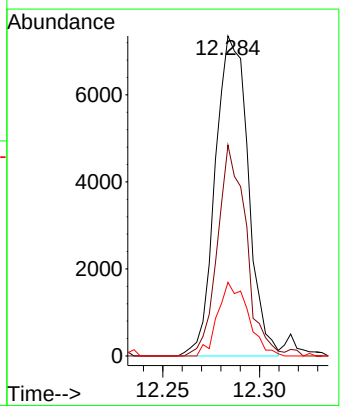


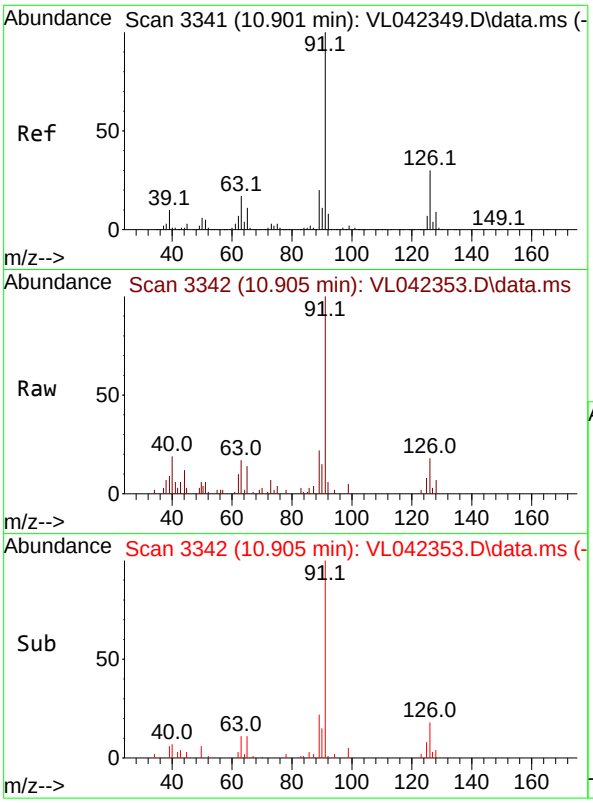


#70
n-Butylbenzene
Concen: 0.101 ppbv
RT: 12.284 min Scan# 3768
Delta R.T. 0.000 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Tgt Ion: 91 Resp: 8684

Ion	Ratio	Lower	Upper
91	100		
92	58.0	44.2	66.4
134	21.3	18.2	27.4



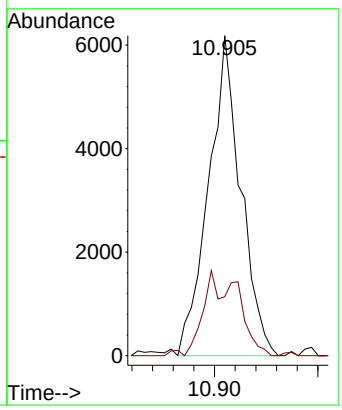


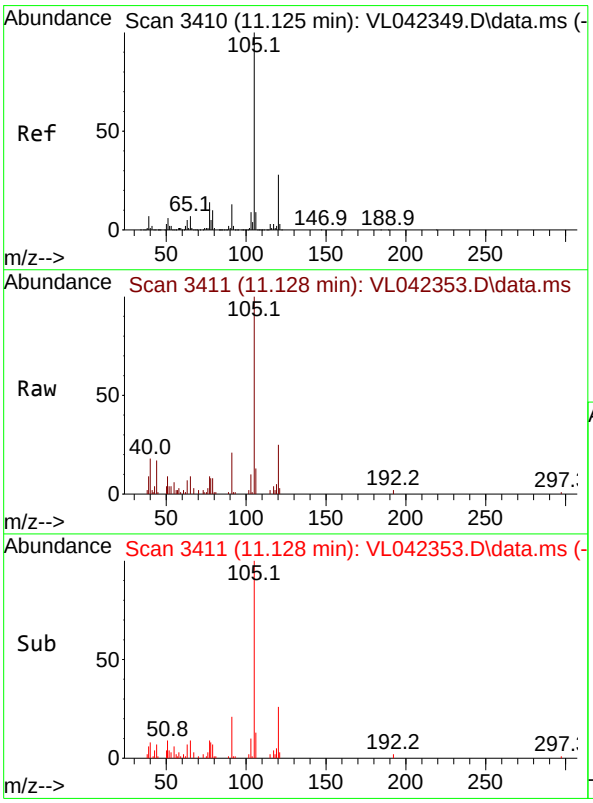
#71
2-Chlorotoluene
Concen: 0.115 ppbv
RT: 10.905 min Scan# 3
Delta R.T. 0.004 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion: 91 Resp: 6703

Ion	Ratio	Lower	Upper
91	100		
126	29.2	11.4	45.4

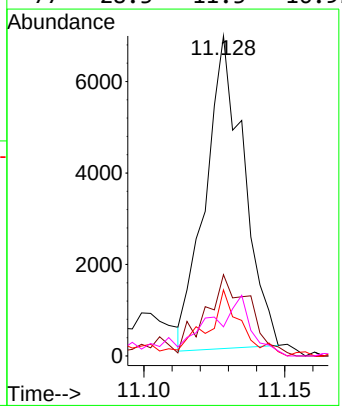


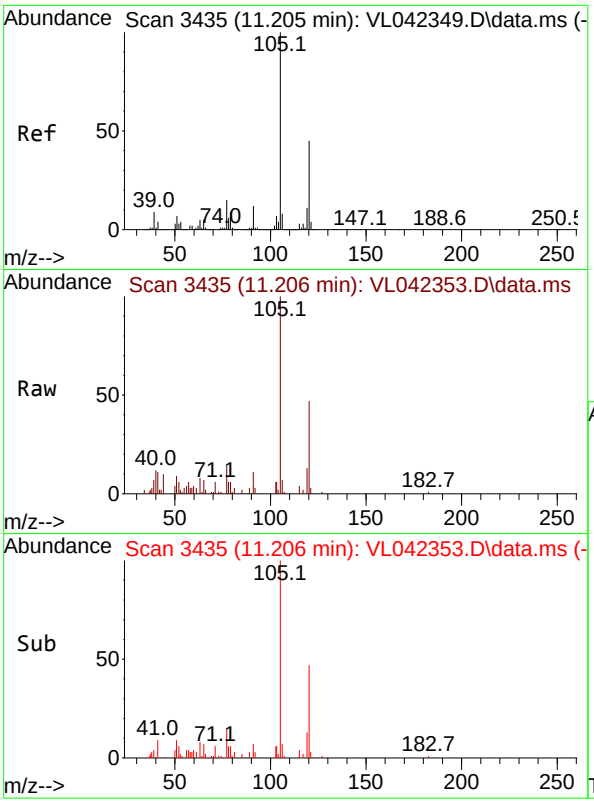


#72
4-Ethyltoluene
Concen: 0.104 ppbv
RT: 11.128 min Scan# 3411
Delta R.T. 0.004 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Tgt Ion:105 Resp: 6463

Ion	Ratio	Lower	Upper
105	100		
120	34.1	23.2	34.8
91	24.5	10.4	15.6#
77	28.3	11.3	16.9#



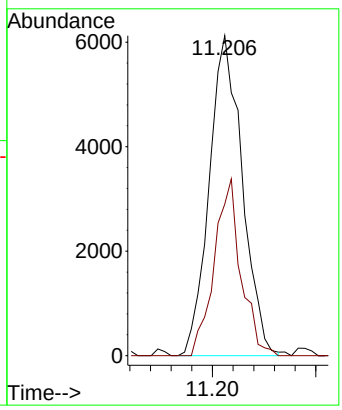


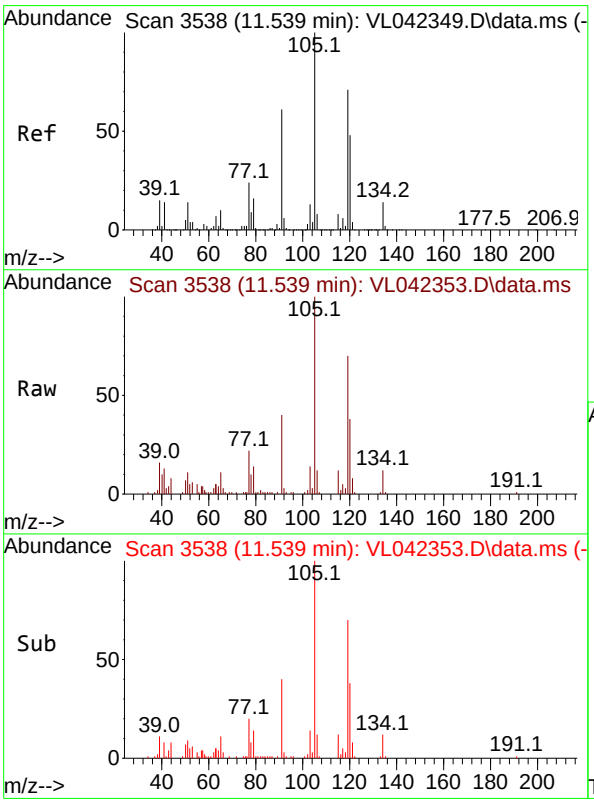
#73
1,3,5-Trimethylbenzene
Concen: 0.124 ppbv
RT: 11.206 min Scan# 34
Delta R.T. 0.000 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion:105 Resp: 6797

Ion	Ratio	Lower	Upper
105	100		
120	47.4	35.6	53.4

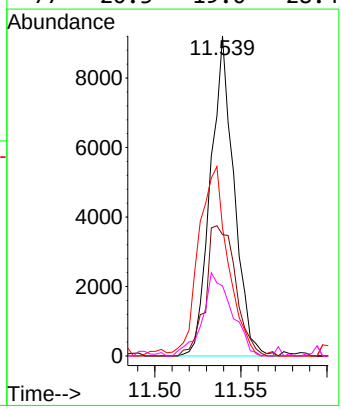


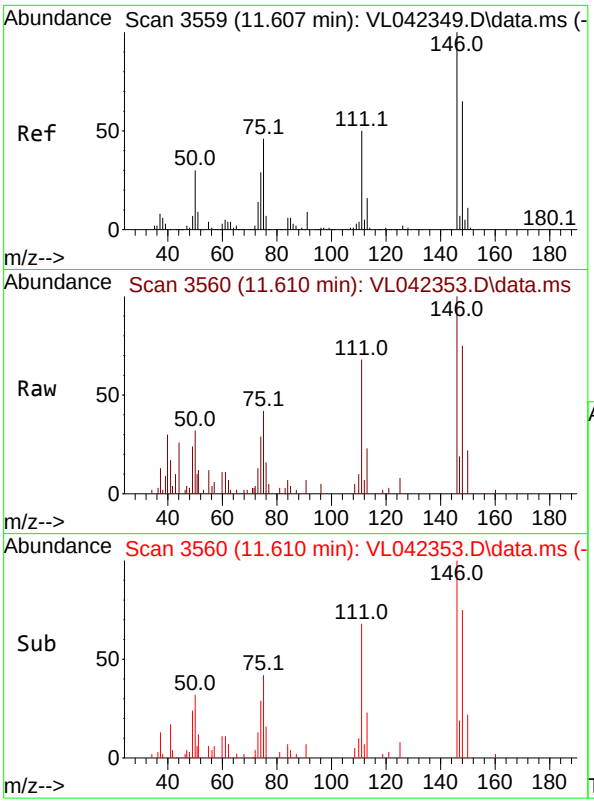


#74
1,2,4-Trimethylbenzene
Concen: 0.137 ppbv
RT: 11.539 min Scan# 3538
Delta R.T. 0.000 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Tgt Ion:105 Resp: 8745

Ion	Ratio	Lower	Upper
105	100		
120	37.9	38.1	57.1#
91	40.1	48.8	73.2#
77	20.3	19.0	28.4



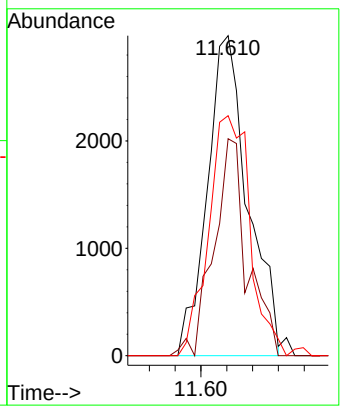


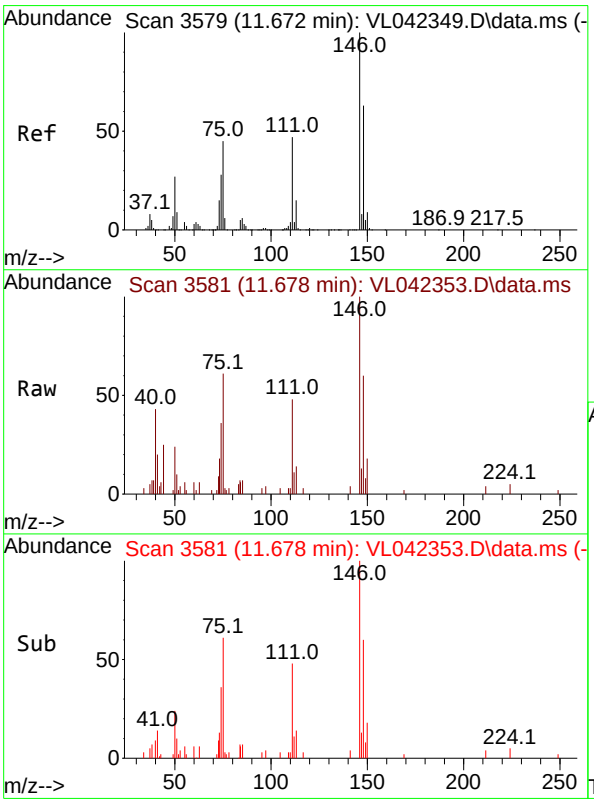
#75
1,3-Dichlorobenzene
Concen: 0.098 ppbv
RT: 11.610 min Scan# 3
Delta R.T. 0.004 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion:146 Resp: 3258

Ion	Ratio	Lower	Upper
146	100		
111	55.9	24.3	72.8
148	77.0	31.6	94.8

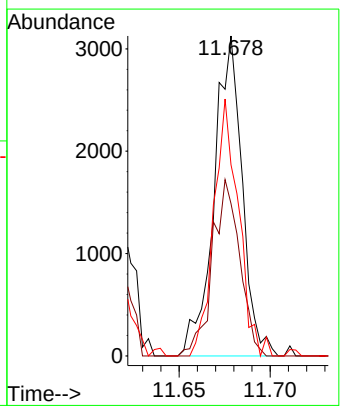


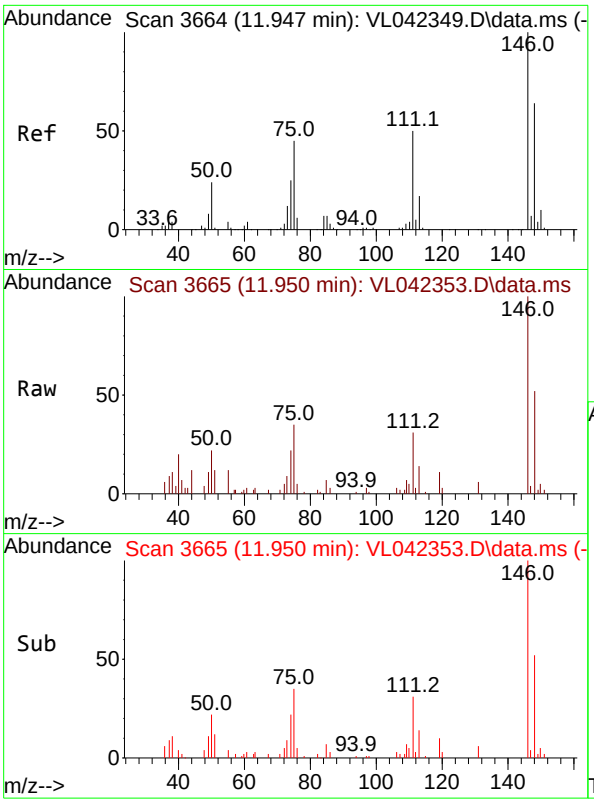


#76
1,4-Dichlorobenzene
Concen: 0.101 ppbv
RT: 11.678 min Scan# 3581
Delta R.T. 0.007 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Tgt Ion:146 Resp: 3366

Ion	Ratio	Lower	Upper
146	100		
111	53.5	24.2	72.6
148	71.3	32.1	96.5



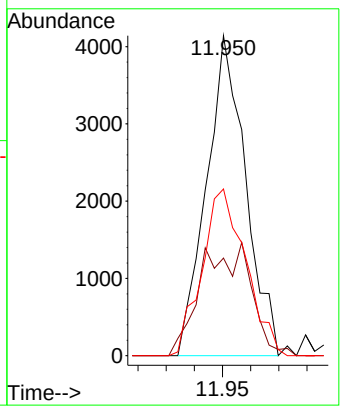


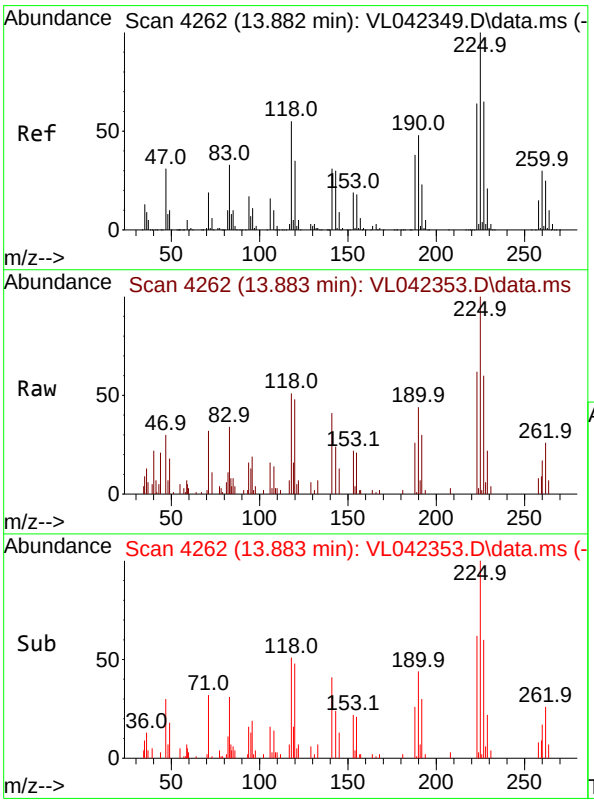
#77
1,2-Dichlorobenzene
Concen: 0.124 ppbv
RT: 11.950 min Scan# 3
Delta R.T. 0.004 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion:146 Resp: 3996

Ion	Ratio	Lower	Upper
146	100		
111	45.1	25.3	75.9
148	58.1	31.5	94.5

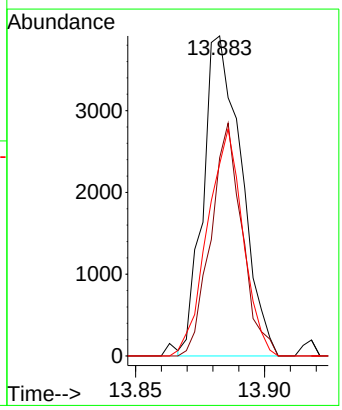


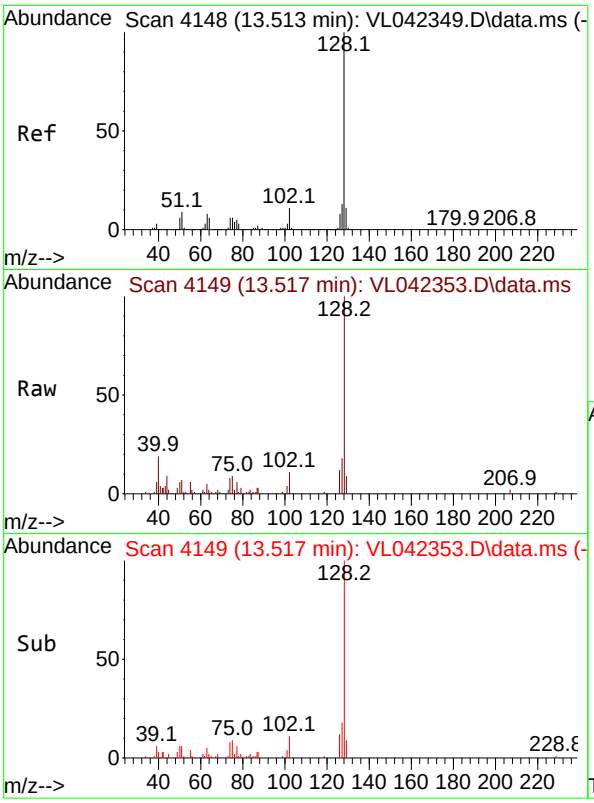


#78
Hexachloro-1,3-Butadiene
Concen: 0.124 ppbv
RT: 13.883 min Scan# 4262
Delta R.T. 0.000 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Tgt Ion:225 Resp: 4030

Ion	Ratio	Lower	Upper
225	100		
223	59.5	50.3	75.5
227	65.9	51.5	77.3



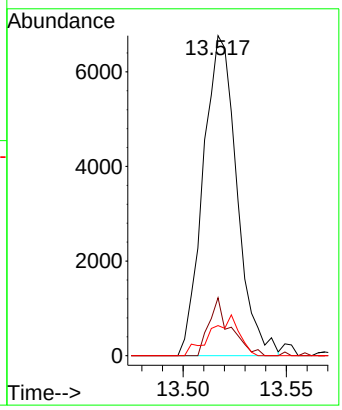


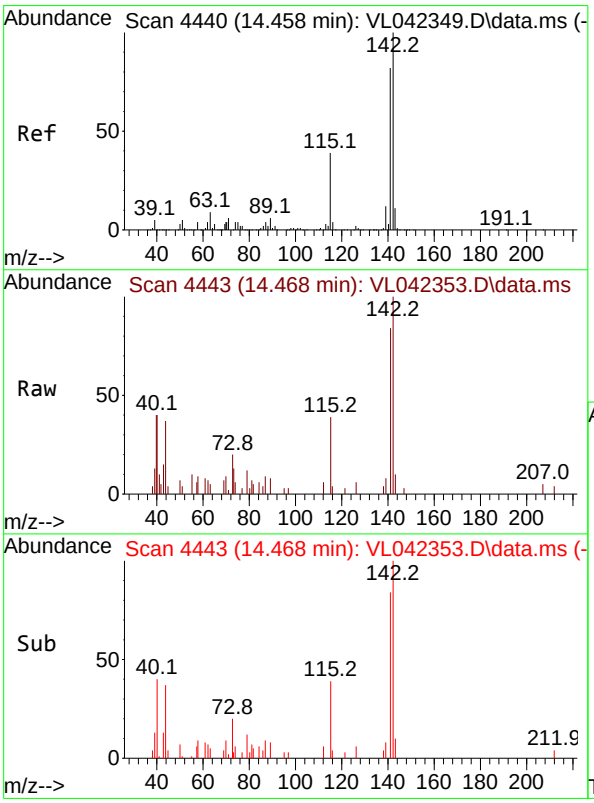
#79
Naphthalene
Concen: 0.100 ppbv
RT: 13.517 min Scan# 41
Delta R.T. 0.004 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion:128 Resp: 7664

Ion	Ratio	Lower	Upper
128	100		
127	18.1	10.6	15.8#
129	9.4	8.6	12.8

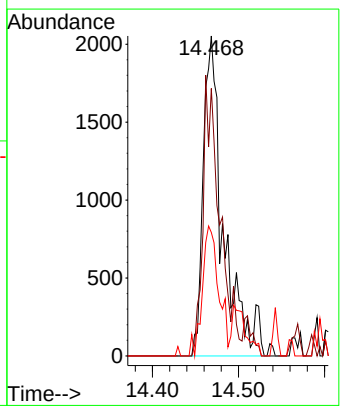


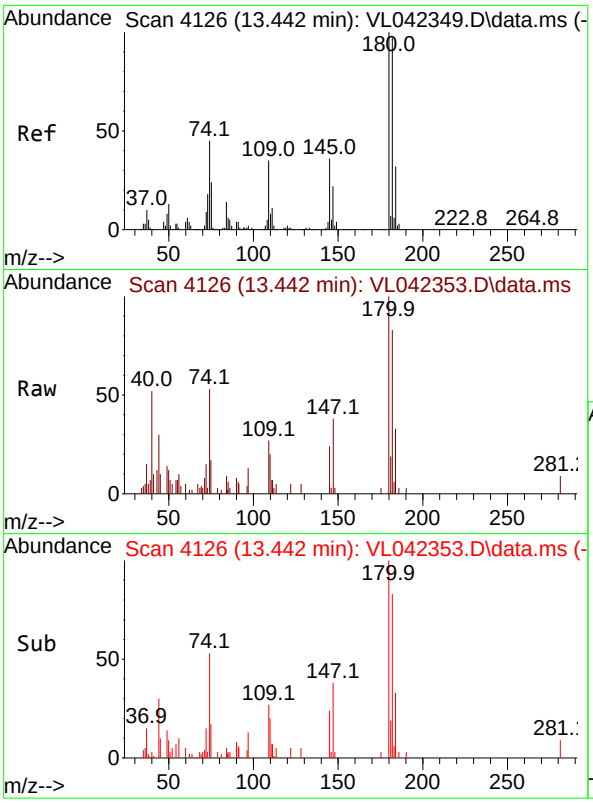


#80
Naphthalene,2-methyl-
Concen: 0.077 ppbv
RT: 14.468 min Scan# 4443
Delta R.T. 0.010 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Tgt Ion:142 Resp: 3339

Ion	Ratio	Lower	Upper
142	100		
141	78.4	66.8	100.2
115	33.1	33.4	50.2#



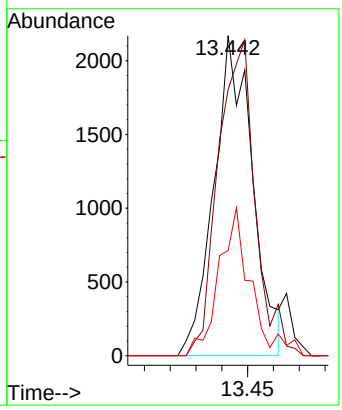


#81
1,2,4-Trichlorobenzene
Concen: 0.069 ppbv
RT: 13.442 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion:180 Resp: 2245

Ion	Ratio	Lower	Upper
180	100		
182	94.3	76.8	115.2
184	38.4	24.6	36.8#



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042354.D
Acq On : 17 Apr 2025 12:22
Operator : SY/MD
Sample : VSTDICC0.03
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Quant Time: Apr 18 02:07:48 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Apr 18 01:24:29 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.790	49	120042	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	349264	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	312999	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.380	95	256230	9.962	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 99.600%			
Target Compounds						Qvalue
3) Chlorodifluoromethane	1.479	51	1404	0.070	ppbv #	78
4) Chloromethane	1.534	50	773	0.092	ppbv #	72
5) Vinyl Chloride	1.583	62	361	0.040	ppbv #	76
6) Bromomethane	1.667	94	232	0.059	ppbv #	8
7) Chloroethane	1.699	64	237	0.072	ppbv #	46
8) Dichlorotetrafluoroethane	1.554	85	823	0.045	ppbv	95
9) Propene	1.486	41	508	0.055	ppbv #	15
10) Heptane	4.981	43	435	0.018	ppbv #	1
12) 1,1,2-Trichlorotrifluo...	2.143	101	793	0.048	ppbv #	73
13) Ethanol	1.434	45	60931	81.065	ppbv	74
14) Bromoethene	1.787	108	207	0.033	ppbv #	1
15) Acetone	1.839	43	3597	0.183	ppbv #	89
16) 1,3-Butadiene	1.609	39	573	0.062	ppbv #	1
17) tert-Butyl alcohol	2.049	59	991	0.041	ppbv #	1
18) 1,1-Dichloroethene	2.036	96	455	0.057	ppbv #	43
19) Isopropyl Alcohol	1.434	45	60931	5.582	ppbv #	33
20) Methylene Chloride	2.065	84	2904	0.377	ppbv	86
21) Allyl Chloride	2.097	41	1132	0.083	ppbv #	1
22) trans-1,2-Dichloroethene	2.340	96	287	0.033	ppbv #	32
23) Vinyl Acetate	2.466	43	490	0.062	ppbv #	86
24) 1,1-Dichloroethane	2.415	63	1030	0.062	ppbv #	74
25) Ethyl Acetate	2.835	43	2744	0.057	ppbv #	75
26) Hexane	2.832	57	2398	0.122	ppbv #	65
27) Carbon Disulfide	2.152	76	984	0.047	ppbv #	1
28) Methyl tert-Butyl Ether	2.447	73	426	0.033	ppbv #	48
30) Cyclohexane	3.855	84	311	0.020	ppbv #	1
31) cis-1,2-Dichloroethene	2.725	61	831	0.045	ppbv #	86
32) 1,1,1-Trichloroethane	3.373	97	809	0.027	ppbv #	52
34) 2-Butanone	2.564	43	510	0.018	ppbv #	53
35) Carbon Tetrachloride	3.768	117	862	0.027	ppbv #	45
36) Benzene	3.667	78	1629	0.043	ppbv #	75
38) Trichloroethene	4.557	130	271	0.016	ppbv #	27
39) 1,2-Dichloropropane	3.965	63	90827	6.465	ppbv #	22
40) 1,4-Dioxane	4.625	88	139	0.018	ppbv #	1
42) Bromodichloromethane	4.496	83	1093	0.035	ppbv #	82
43) Methyl Methacrylate	4.891	69	354	0.021	ppbv #	3
44) 2,2,4-Trimethylpentane	4.641	57	1377	0.021	ppbv #	1
45) t-1,3-Dichloropropene	6.415	75	183	0.011	ppbv	100
46) cis-1,3-Dichloropropene	5.606	75	546	0.026	ppbv #	37
47) 1,1,2-Trichloroethane	6.590	97	225	0.016	ppbv #	40
48) Dibromochloromethane	7.399	129	258	0.010	ppbv #	10
49) Bromoform	9.493	173	285	0.013	ppbv #	1
53) Toluene	6.943	91	464	0.010	ppbv #	1

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042354.D
Acq On : 17 Apr 2025 12:22
Operator : SY/MD
Sample : VSTDICC0.03
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Quant Time: Apr 18 02:07:48 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Apr 18 01:24:29 2025
Response via : Initial Calibration

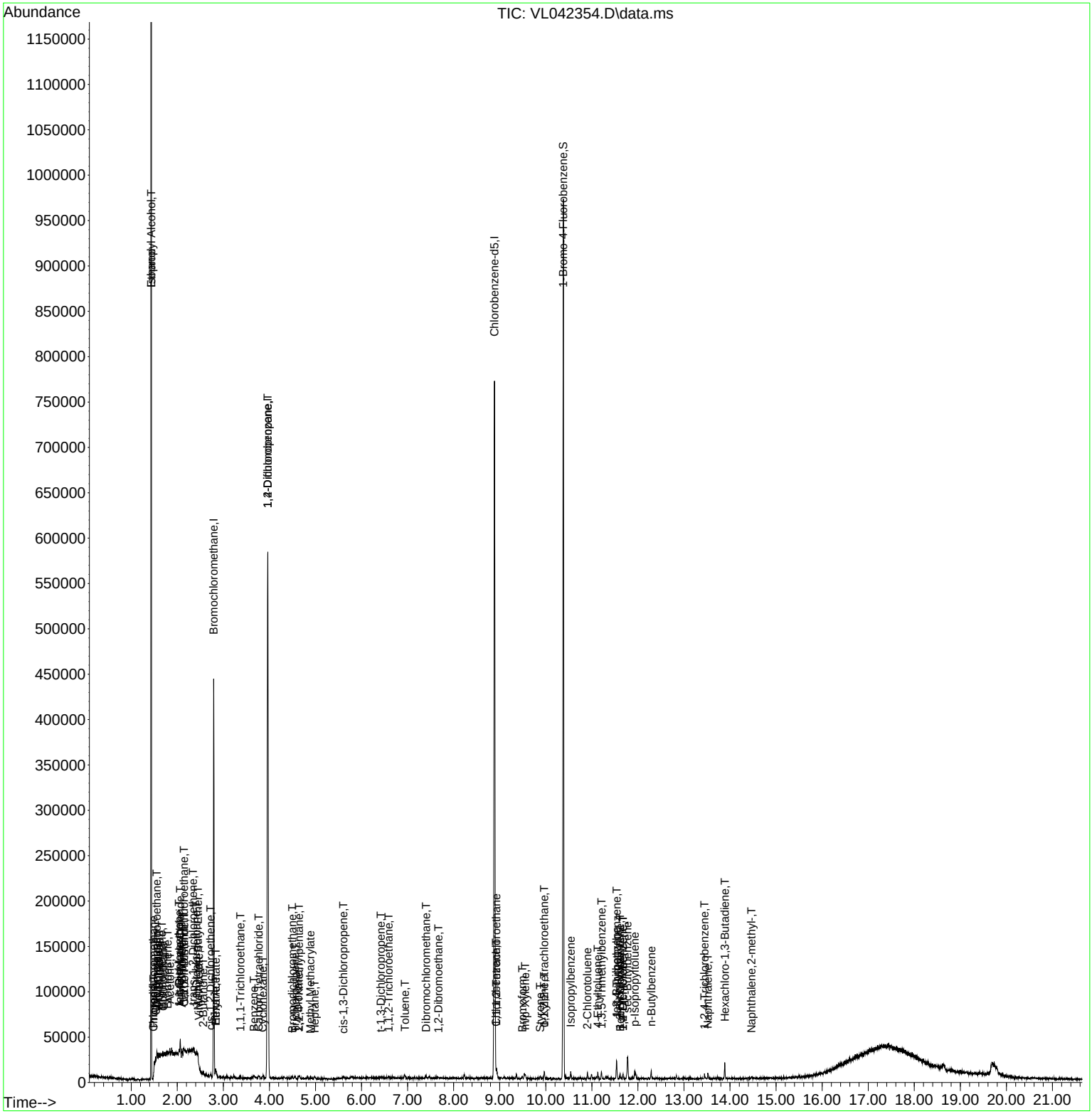
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
54) 1,2-Dibromoethane	7.668	107	422	0.021	ppbv	#	12
56) 1,1,1,2-Tetrachloroethane	8.927	131	589	0.031	ppbv	#	1
57) Chlorobenzene	8.920	112	567	0.017	ppbv	#	74
59) m/p-Xylene	9.555	91	1648	0.033	ppbv	#	32
60) o-Xylene	9.966	91	1938	0.039	ppbv		84
61) Styrene	9.875	104	813	0.034	ppbv		93
62) Isopropylbenzene	10.542	105	2934	0.040	ppbv		92
63) 1,1,2,2-Tetrachloroethane	9.966	83	826	0.025	ppbv	#	58
65) tert-Butylbenzene	11.536	119	2656	0.039	ppbv		90
66) Benzyl Chloride	11.620	91	130	0.017	ppbv	#	70
67) sec-Butylbenzene	11.772	105	3658	0.039	ppbv	#	85
69) p-Isopropyltoluene	11.930	119	3139	0.038	ppbv		94
70) n-Butylbenzene	12.290	91	2516	0.029	ppbv	#	81
71) 2-Chlorotoluene	10.901	91	2537	0.044	ppbv		99
72) 4-Ethyltoluene	11.128	105	2221	0.036	ppbv	#	69
73) 1,3,5-Trimethylbenzene	11.212	105	2473	0.046	ppbv	#	86
74) 1,2,4-Trimethylbenzene	11.539	105	4320	0.068	ppbv	#	80
75) 1,3-Dichlorobenzene	11.613	146	1056	0.032	ppbv		91
76) 1,4-Dichlorobenzene	11.671	146	1180	0.036	ppbv		95
77) 1,2-Dichlorobenzene	11.671	146	1180	0.037	ppbv		93
78) Hexachloro-1,3-Butadiene	13.889	225	1879	0.058	ppbv		92
79) Naphthalene	13.516	128	2354	0.031	ppbv	#	84
80) Naphthalene,2-methyl-	14.468	142	594	0.014	ppbv	#	52
81) 1,2,4-Trichlorobenzene	13.445	180	614	0.019	ppbv	#	71

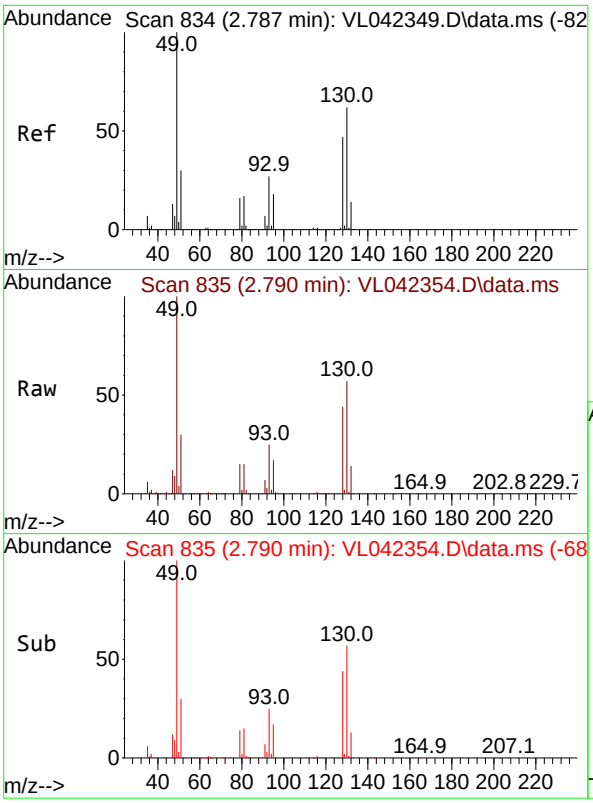
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042354.D
Acq On : 17 Apr 2025 12:22
Operator : SY/MD
Sample : VSTDICC0.03
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Quant Time: Apr 18 02:07:48 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Apr 18 01:24:29 2025
Response via : Initial Calibration



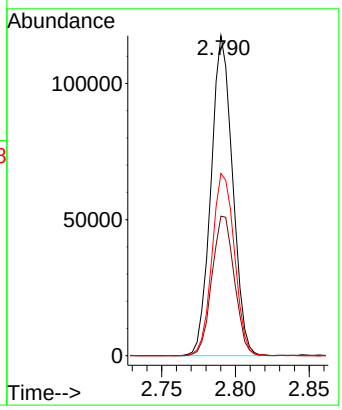


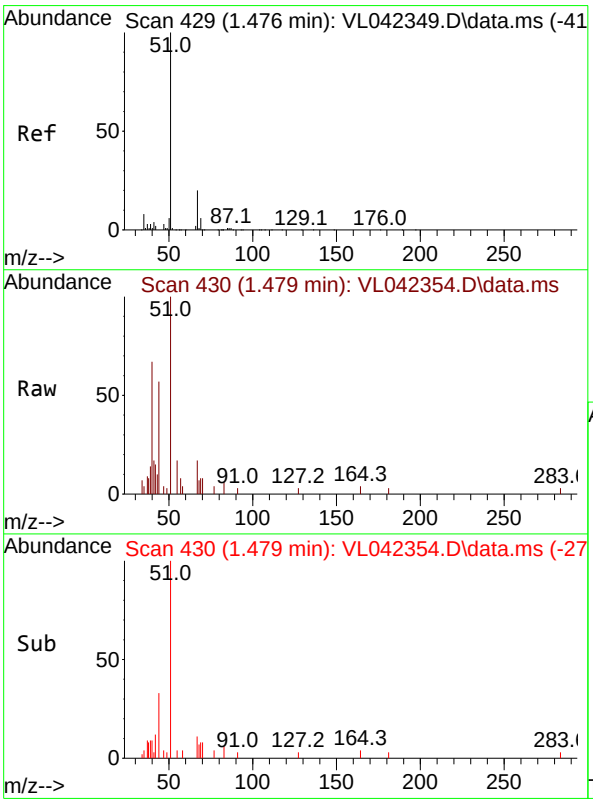
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion: 49 Resp: 120042

Ion	Ratio	Lower	Upper
49	100		
128	45.3	22.8	68.4
130	59.0	29.3	88.0

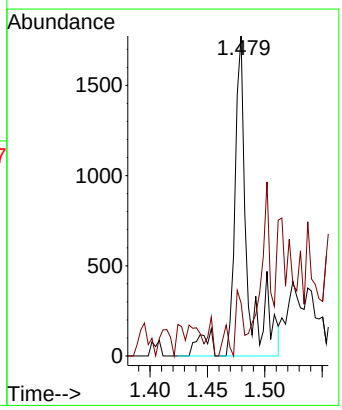


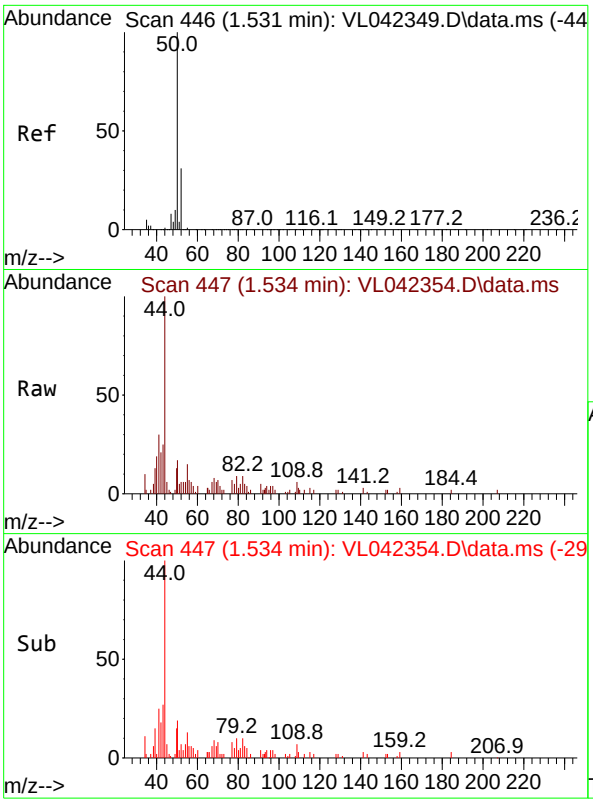


#3
Chlorodifluoromethane
Concen: 0.070 ppbv
RT: 1.479 min Scan# 430
Delta R.T. 0.003 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Tgt Ion: 51 Resp: 1404

Ion	Ratio	Lower	Upper
51	100		
67	30.7	16.2	24.4#



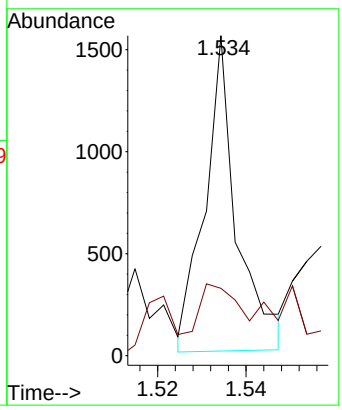


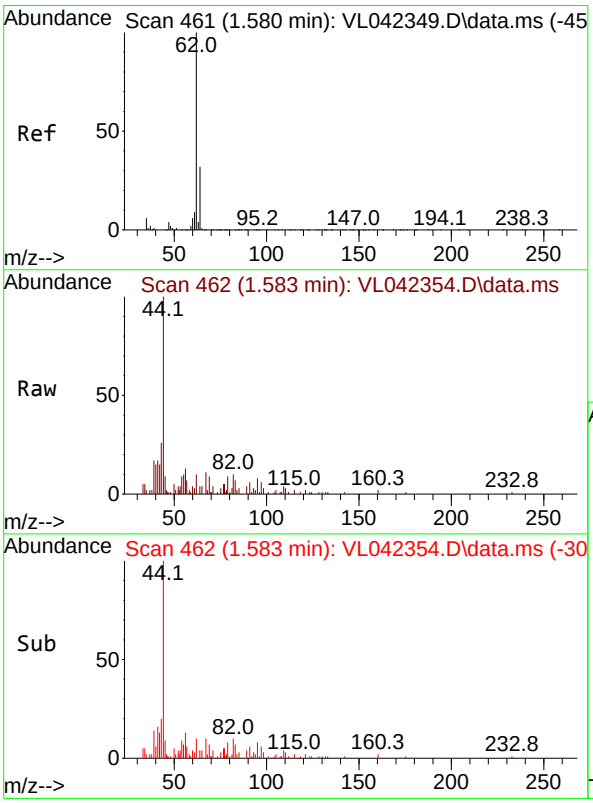
#4
Chloromethane
Concen: 0.092 ppbv
RT: 1.534 min Scan# 44
Delta R.T. 0.003 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion: 50 Resp: 773

Ion	Ratio	Lower	Upper
50	100		
52	15.3	24.7	37.1#

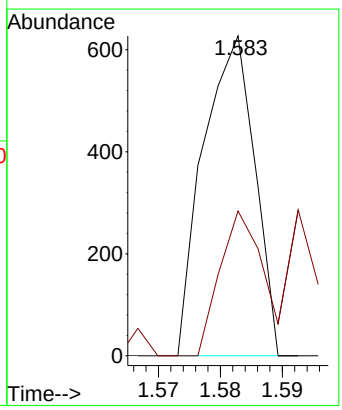


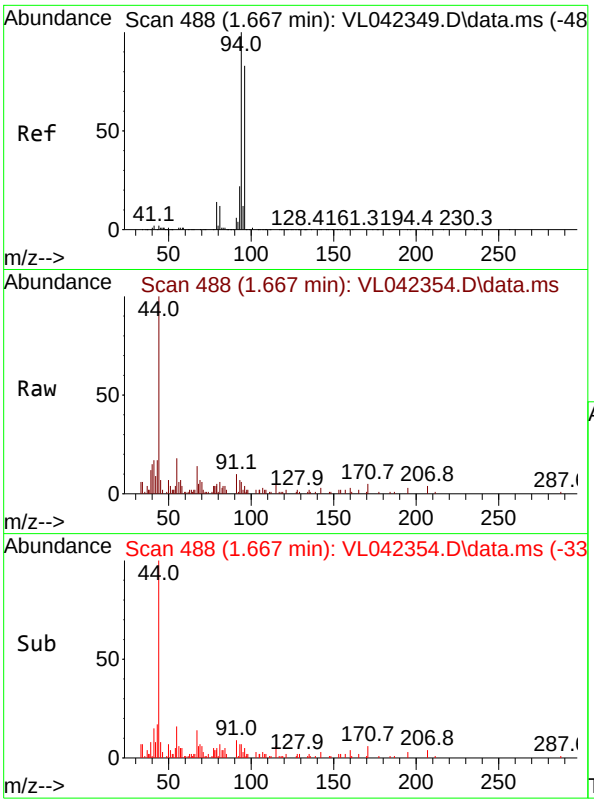


#5
Vinyl Chloride
Concen: 0.040 ppbv
RT: 1.583 min Scan# 462
Delta R.T. 0.003 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Tgt Ion: 62 Resp: 361

Ion	Ratio	Lower	Upper
62	100		
64	45.3	25.4	38.0#



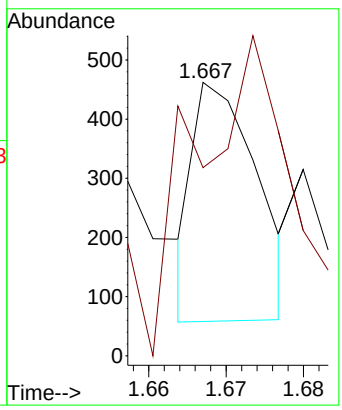


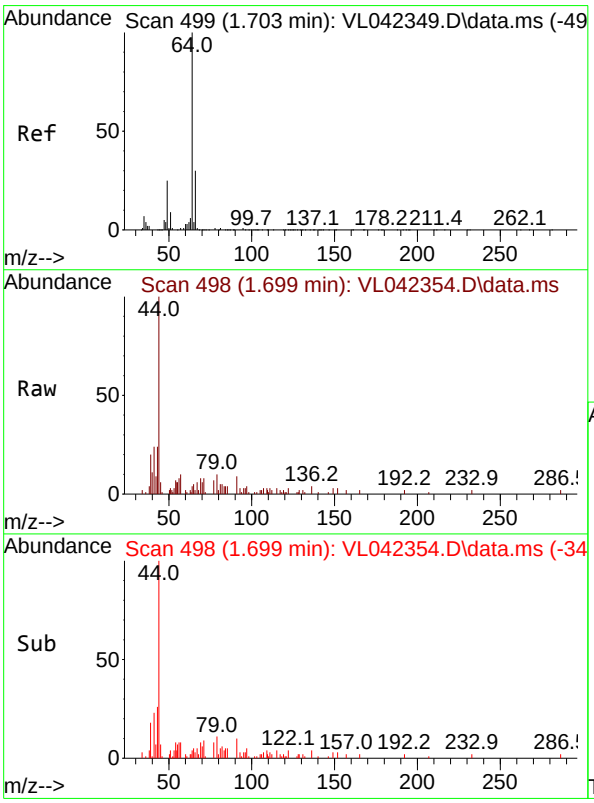
#6
Bromomethane
Concen: 0.059 ppbv
RT: 1.667 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion: 94 Resp: 232

Ion	Ratio	Lower	Upper
94	100		
96	0.0	66.2	99.2#

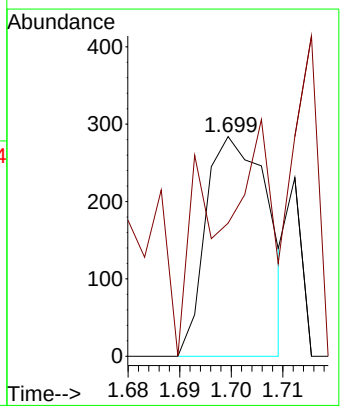


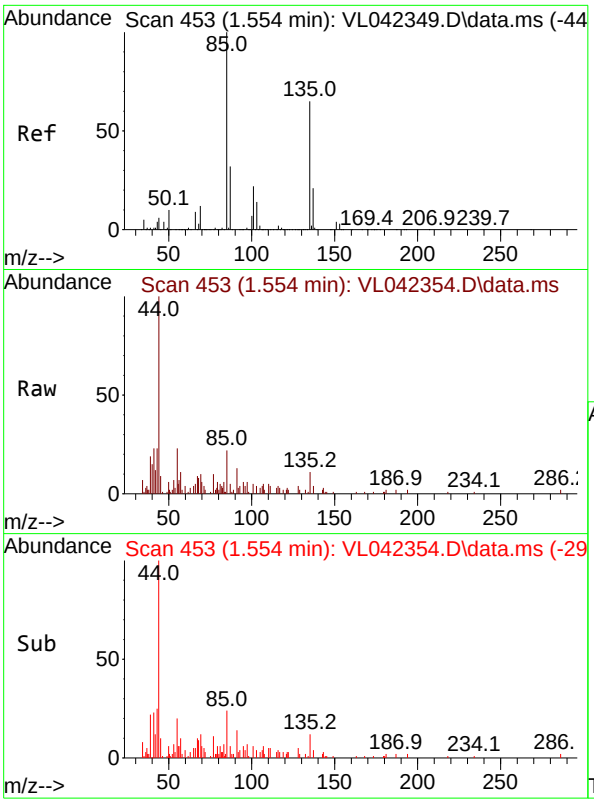


#7
Chloroethane
Concen: 0.072 ppbv
RT: 1.699 min Scan# 498
Delta R.T. -0.003 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Tgt Ion: 64 Resp: 237

Ion	Ratio	Lower	Upper
64	100		
66	60.6	24.6	37.0#



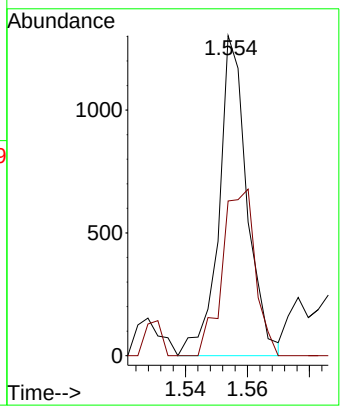


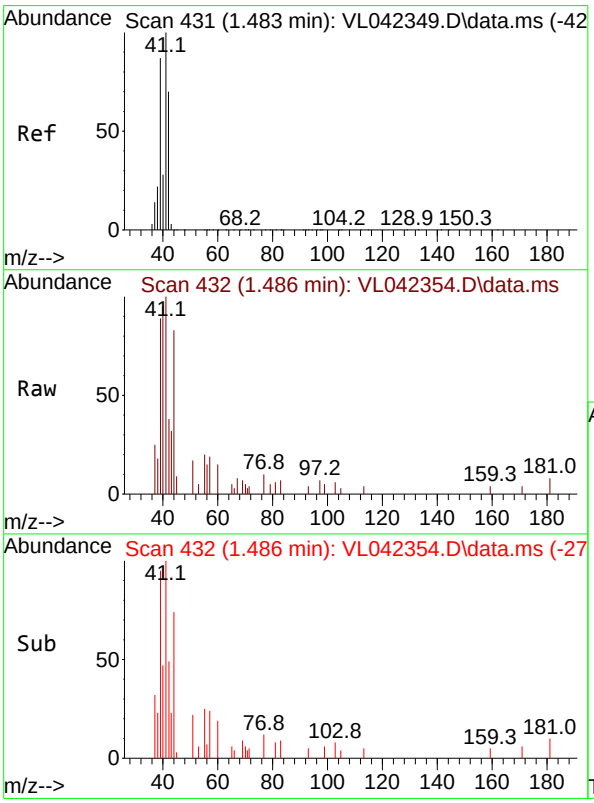
#8
Dichlorotetrafluoroethane
Concen: 0.045 ppbv
RT: 1.554 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion: 85 Resp: 823

Ion	Ratio	Lower	Upper
85	100		
135	69.1	52.2	78.2

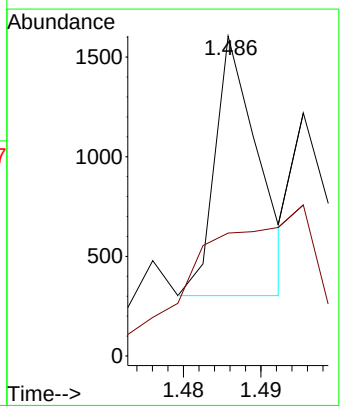


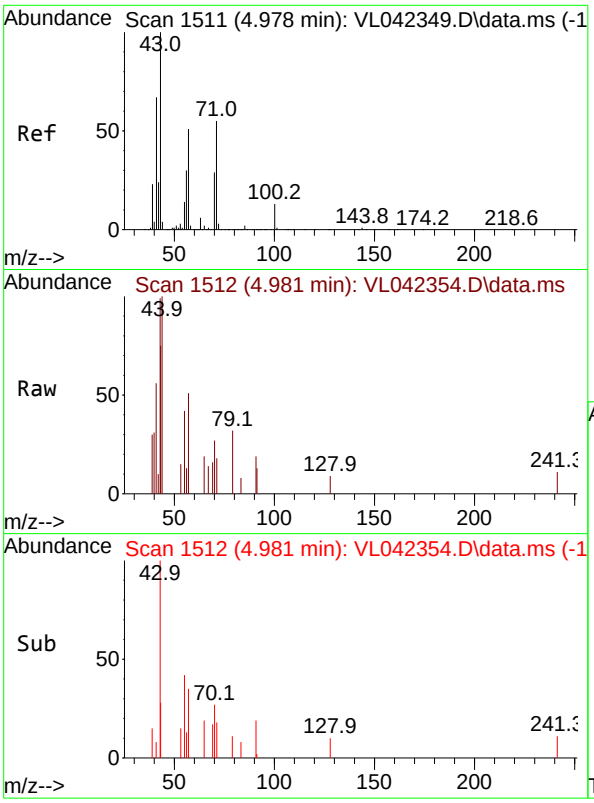


#9
Propene
Concen: 0.055 ppbv
RT: 1.486 min Scan# 432
Delta R.T. 0.003 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Tgt Ion: 41 Resp: 508

Ion	Ratio	Lower	Upper
41	100		
42	0.0	56.2	84.4#



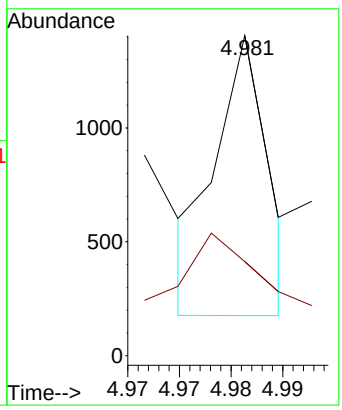


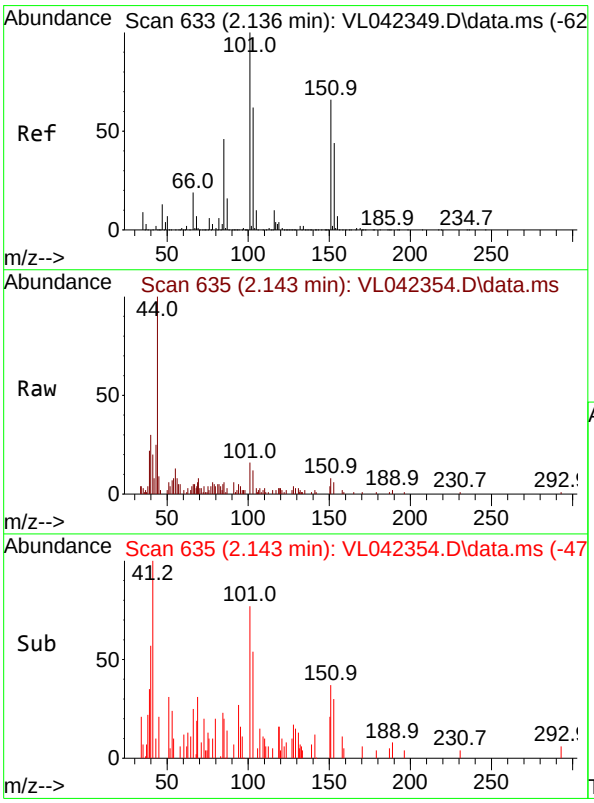
#10
Heptane
Concen: 0.018 ppbv
RT: 4.981 min Scan# 1
Delta R.T. 0.003 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion: 43 Resp: 435

Ion	Ratio	Lower	Upper
43	100		
57	283.4	39.9	59.9#

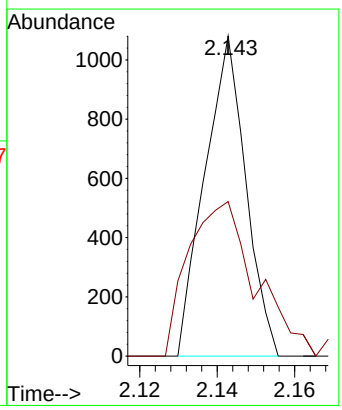


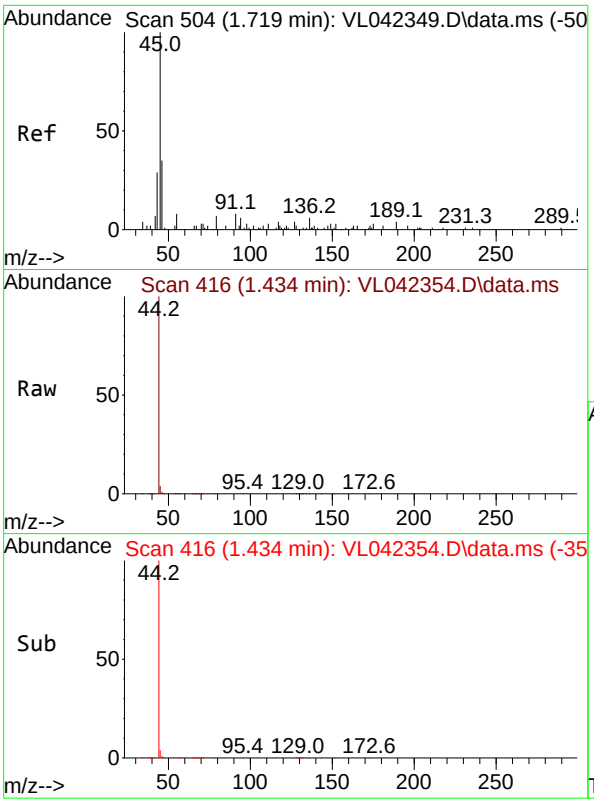


#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.048 ppbv
RT: 2.143 min Scan# 635
Delta R.T. 0.006 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Tgt Ion:101 Resp: 793

Ion	Ratio	Lower	Upper
101	100		
151	93.3	57.0	85.6#



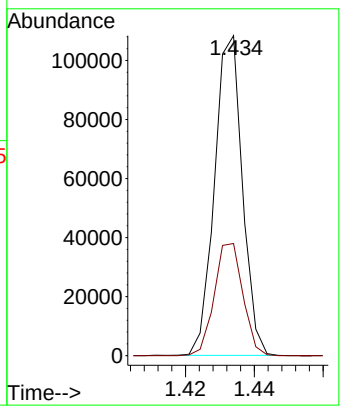


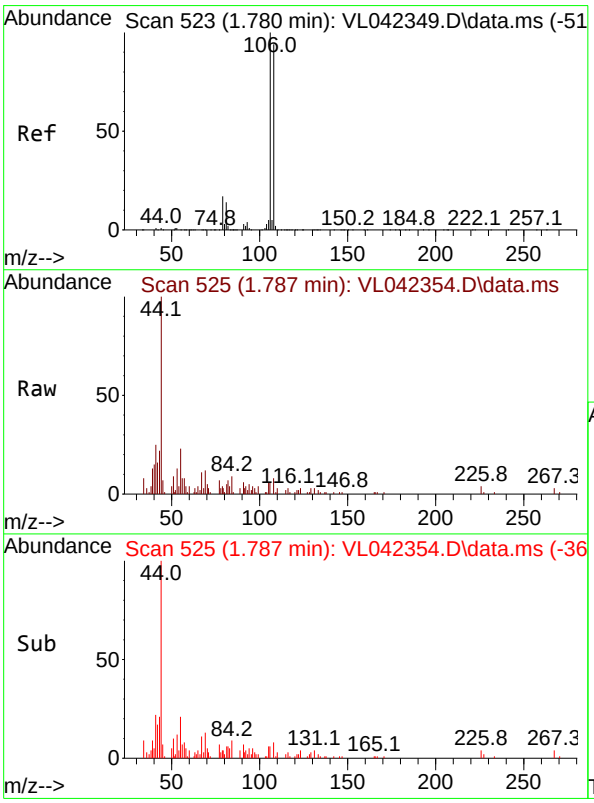
#13
Ethanol
Concen: 81.065 ppbv
RT: 1.434 min Scan# 4
Delta R.T. -0.285 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion: 45 Resp: 60931

Ion	Ratio	Lower	Upper
45	100		
46	36.1	21.9	87.7

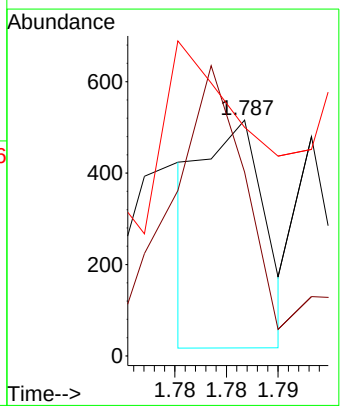


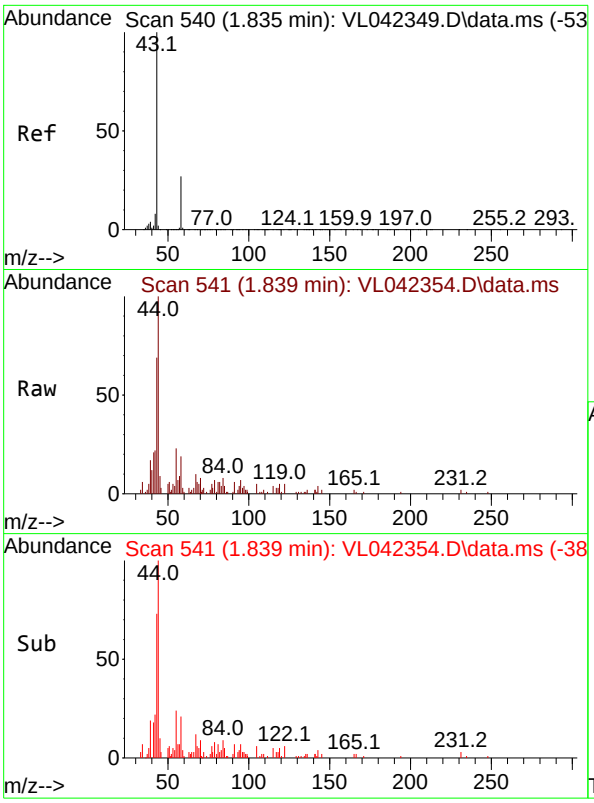


#14
Bromoethene
Concen: 0.033 ppbv
RT: 1.787 min Scan# 525
Delta R.T. 0.006 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Tgt Ion:108 Resp: 207

Ion	Ratio	Lower	Upper
108	100		
106	248.3	85.9	128.9#
79	0.0	13.9	20.9#



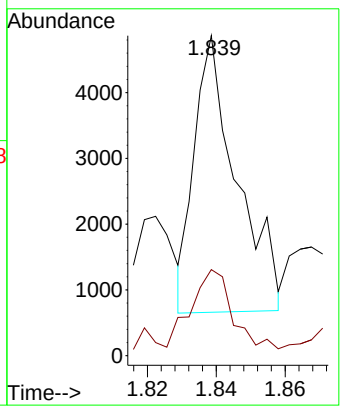


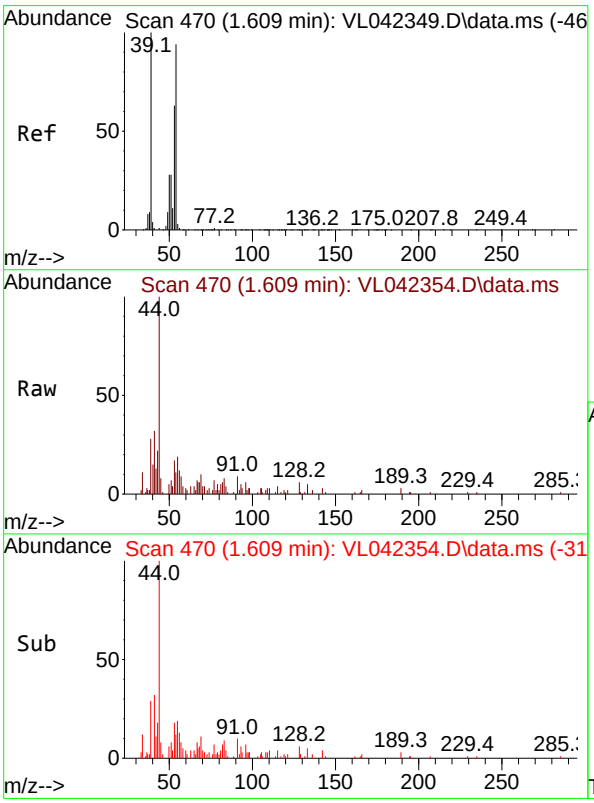
#15
Acetone
Concen: 0.183 ppbv
RT: 1.839 min Scan# 54
Delta R.T. 0.003 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion: 43 Resp: 3597

Ion	Ratio	Lower	Upper
43	100		
58	33.7	22.4	33.6#

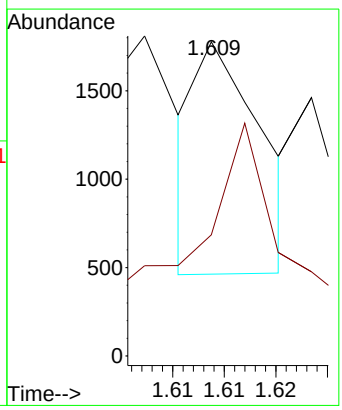


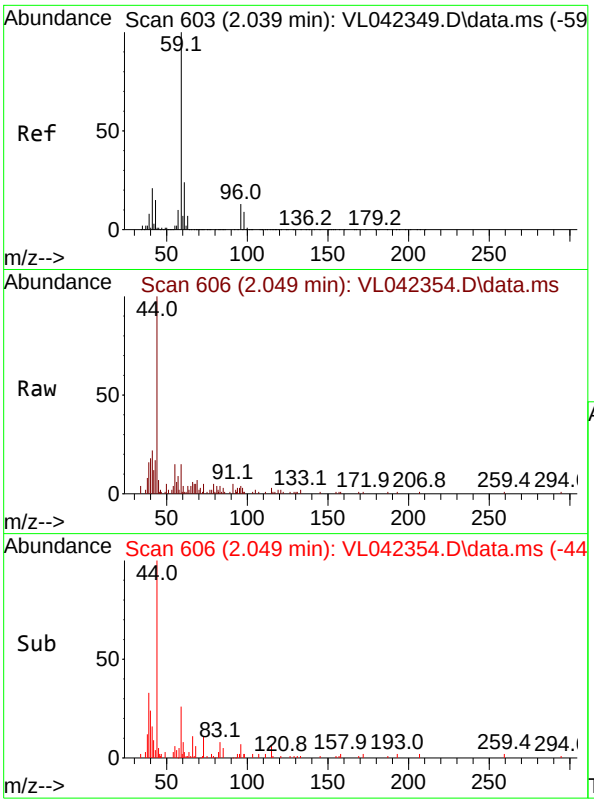


#16
1,3-Butadiene
Concen: 0.062 ppbv
RT: 1.609 min Scan# 470
Delta R.T. -0.000 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Tgt Ion: 39 Resp: 573

Ion	Ratio	Lower	Upper
39	100		
54	377.0	64.9	97.3#



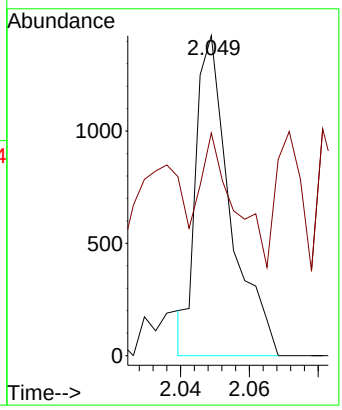


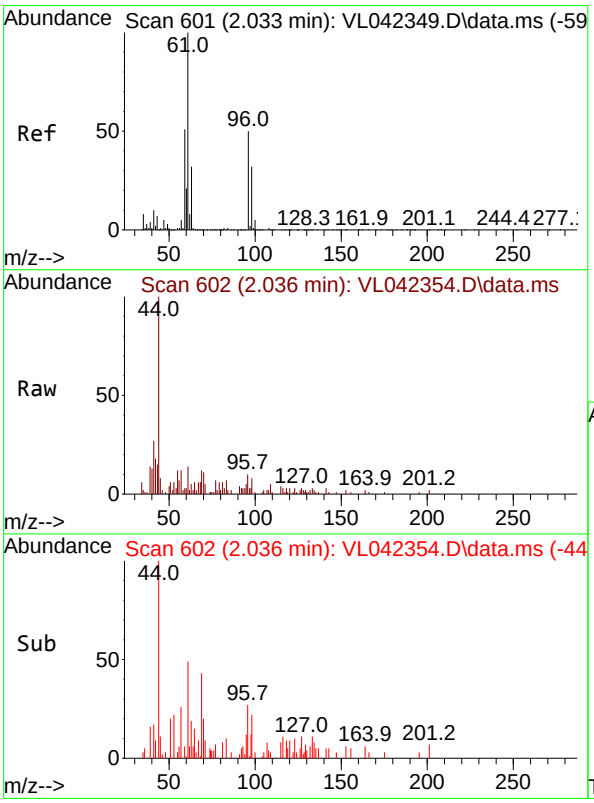
#17
tert-Butyl alcohol
Concen: 0.041 ppbv
RT: 2.049 min Scan# 6
Delta R.T. 0.010 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion: 59 Resp: 991

Ion	Ratio	Lower	Upper
59	100		
57	113.2	8.7	13.1#

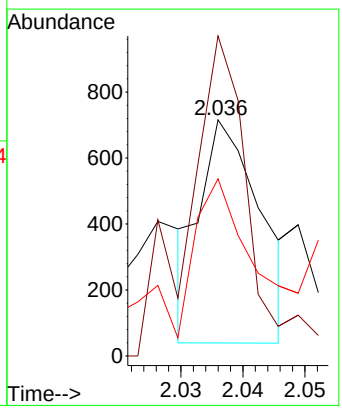


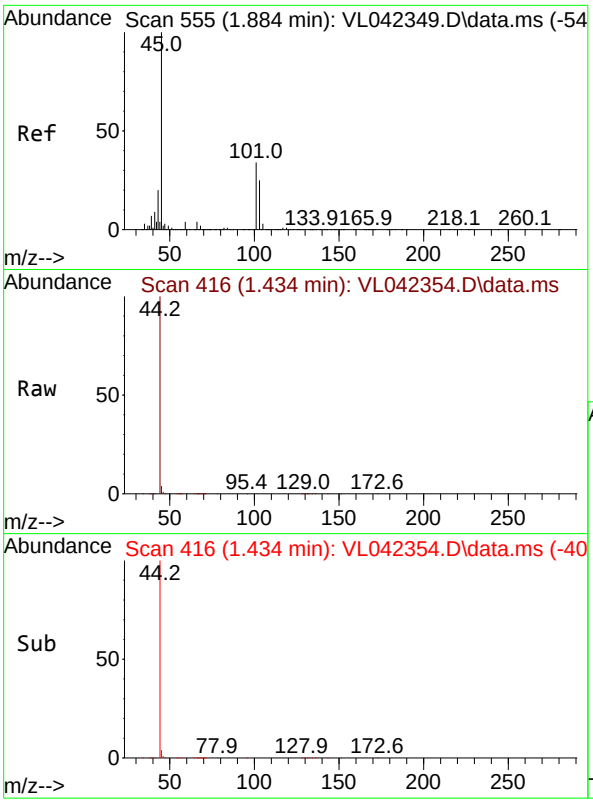


#18
1,1-Dichloroethene
Concen: 0.057 ppbv
RT: 2.036 min Scan# 602
Delta R.T. 0.003 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Tgt Ion: 96 Resp: 455

Ion	Ratio	Lower	Upper
96	100		
61	271.0	160.2	240.2#
98	132.1	51.0	76.4#



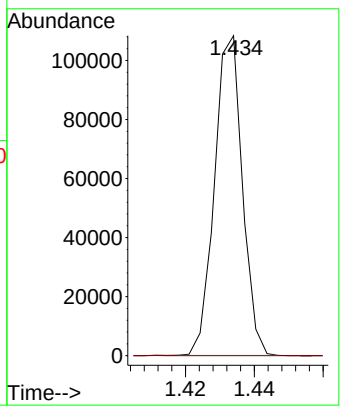


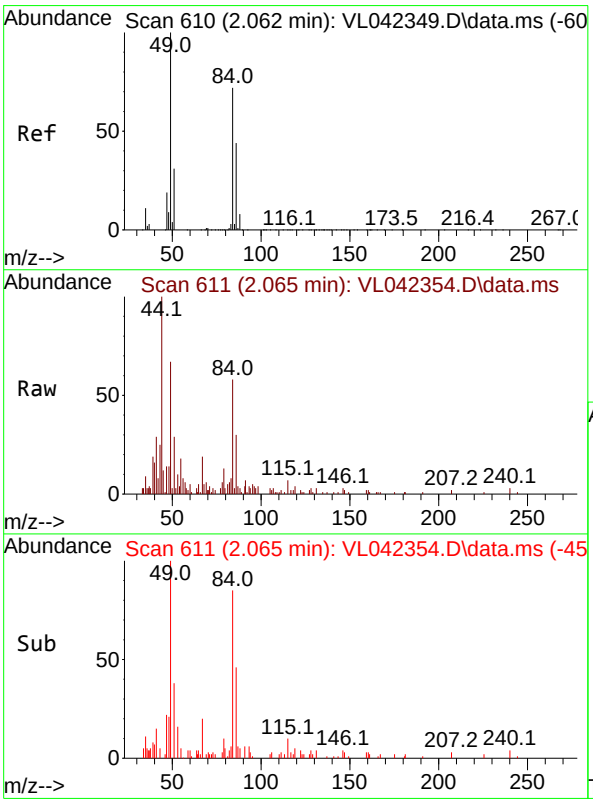
#19
Isopropyl Alcohol
Concen: 5.582 ppbv
RT: 1.434 min Scan# 4
Delta R.T. -0.450 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion: 45 Resp: 60931

Ion	Ratio	Lower	Upper
45	100		
58	0.2	34.5	51.7#

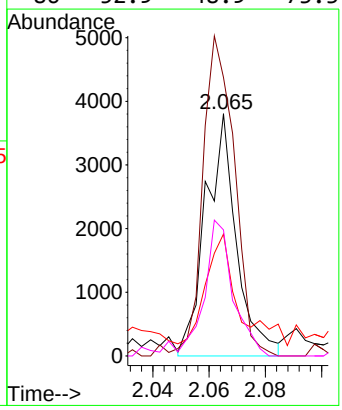


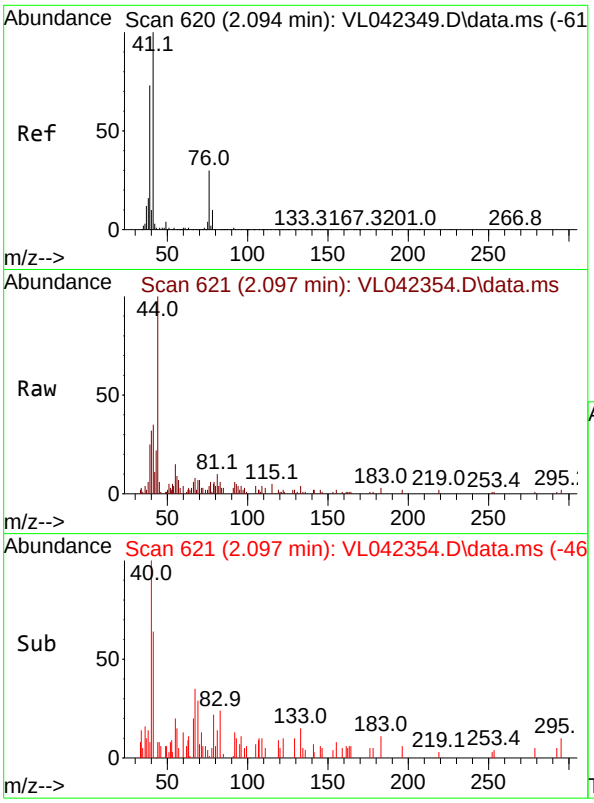


#20
Methylene Chloride
Concen: 0.377 ppbv
RT: 2.065 min Scan# 611
Delta R.T. 0.003 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Tgt Ion: 84 Resp: 2904

Ion	Ratio	Lower	Upper
84	100		
49	116.9	111.6	167.4
51	46.1	35.1	52.7
86	52.9	48.9	73.3



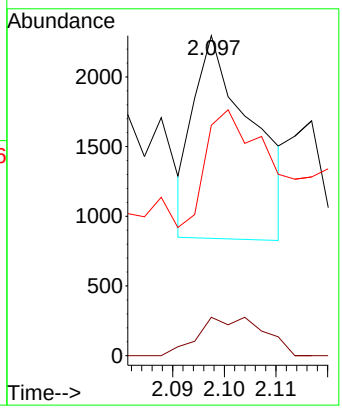


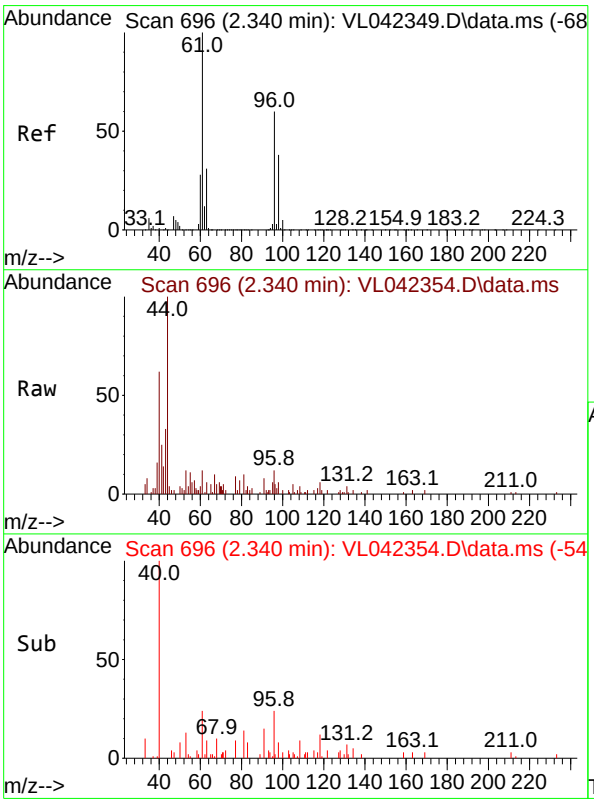
#21
Allyl Chloride
Concen: 0.083 ppbv
RT: 2.097 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion: 41 Resp: 1132

Ion	Ratio	Lower	Upper
41	100		
76	21.5	24.8	37.2#
39	407.5	60.6	90.8#

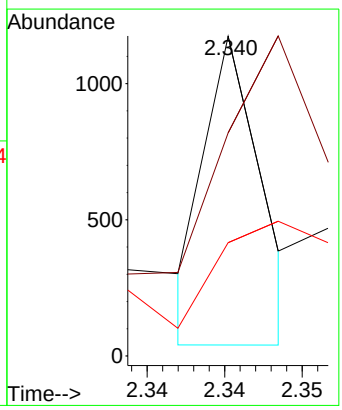


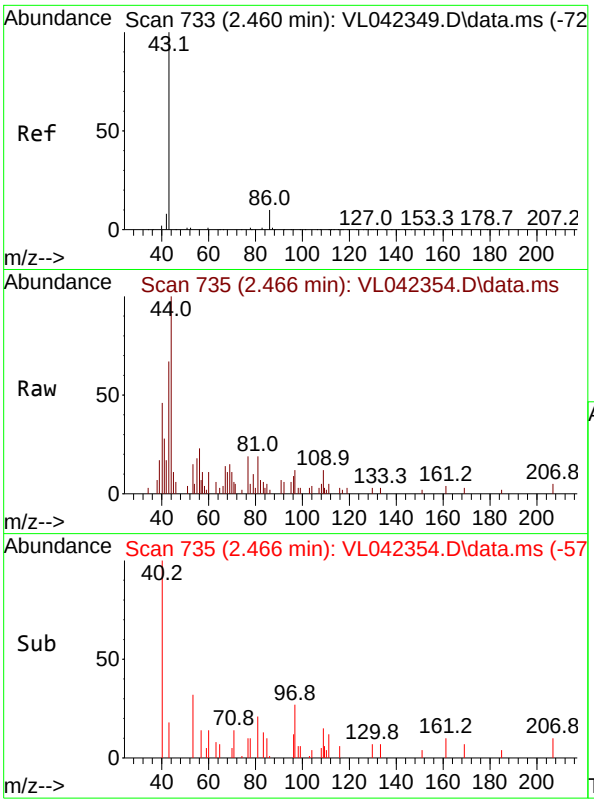


#22
trans-1,2-Dichloroethene
Concen: 0.033 ppbv
RT: 2.340 min Scan# 696
Delta R.T. -0.000 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Tgt Ion: 96 Resp: 287

Ion	Ratio	Lower	Upper
96	100		
61	58.7	133.7	200.5#
98	36.0	50.3	75.5#



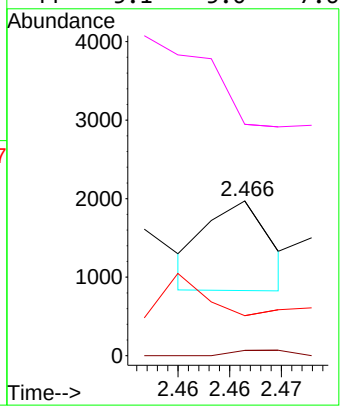


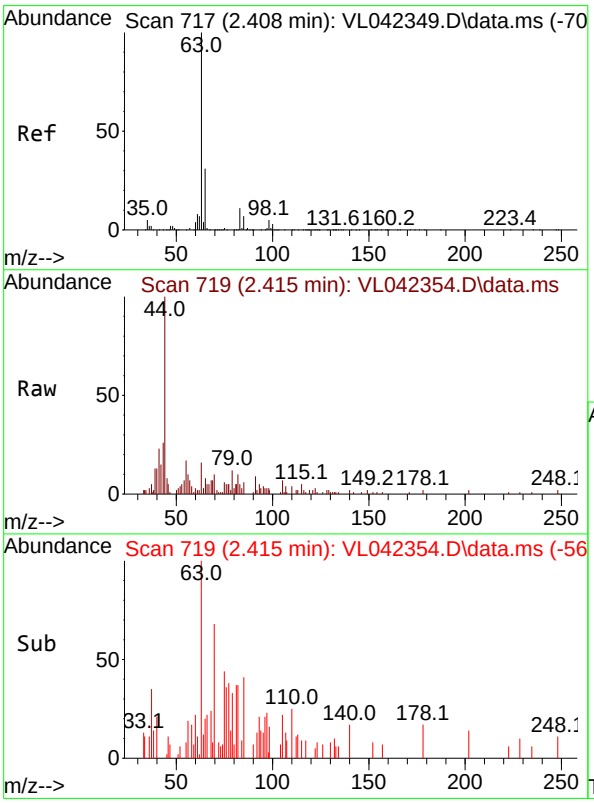
#23
Vinyl Acetate
Concen: 0.062 ppbv
RT: 2.466 min Scan# 7
Delta R.T. 0.006 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion: 43 Resp: 490

Ion	Ratio	Lower	Upper
43	100		
86	10.1	6.5	9.7#
42	0.0	7.8	11.8#
44	5.1	5.0	7.6

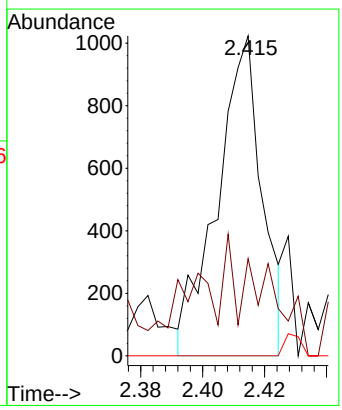


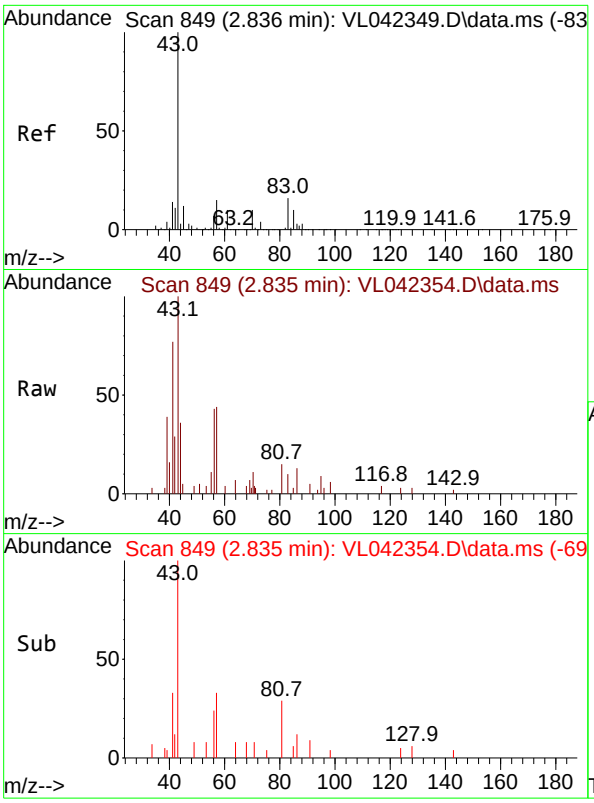


#24
1,1-Dichloroethane
Concen: 0.062 ppbv
RT: 2.415 min Scan# 719
Delta R.T. 0.006 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Tgt Ion: 63 Resp: 1030

Ion	Ratio	Lower	Upper
63	100		
98	17.1	2.3	6.8#
100	0.0	1.6	4.8#



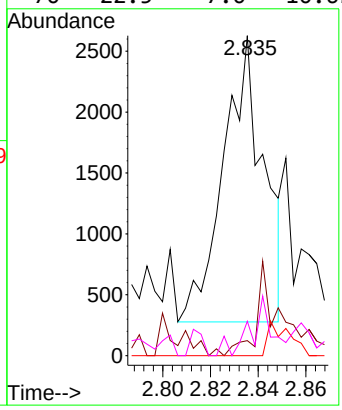


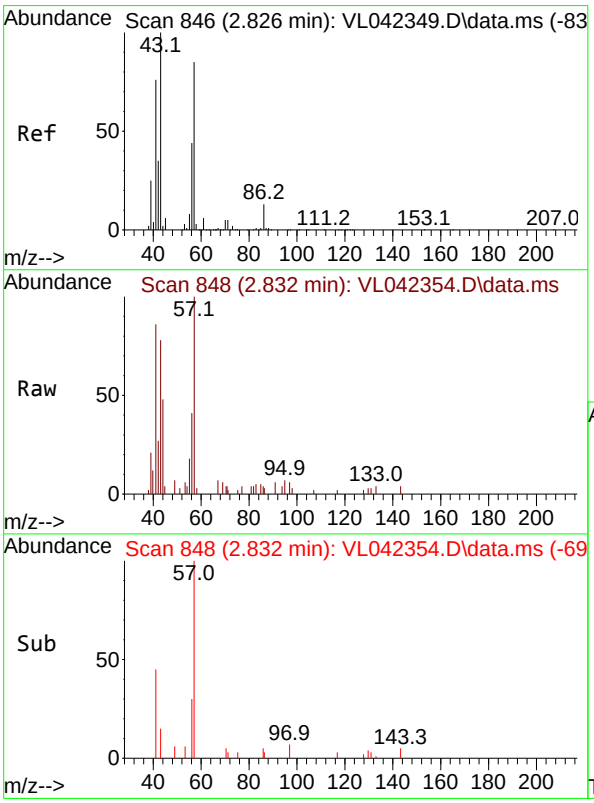
#25
Ethyl Acetate
Concen: 0.057 ppbv
RT: 2.835 min Scan# 84
Delta R.T. -0.000 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion: 43 Resp: 2744

Ion	Ratio	Lower	Upper
43	100		
45	21.1	8.3	12.5#
61	6.4	7.3	10.9#
70	22.5	7.0	10.6#

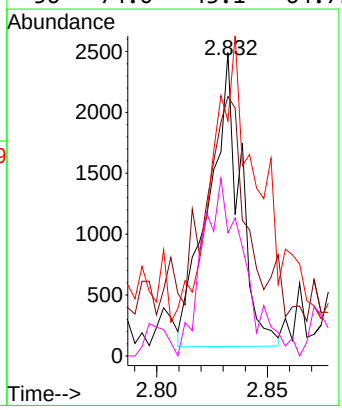


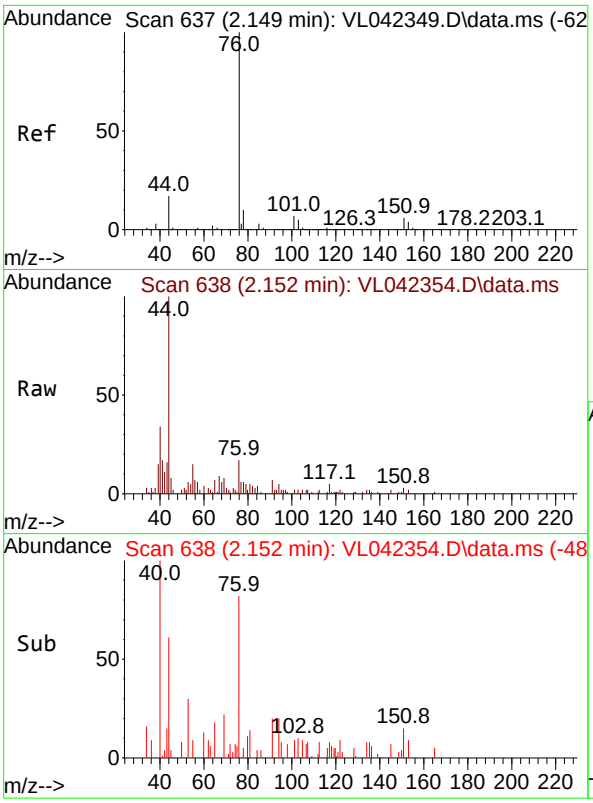


#26
Hexane
Concen: 0.122 ppbv
RT: 2.832 min Scan# 848
Delta R.T. 0.006 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Tgt Ion: 57 Resp: 2398

Ion	Ratio	Lower	Upper
57	100		
41	125.7	77.9	116.9#
43	191.2	208.4	312.6#
56	74.0	43.1	64.7#



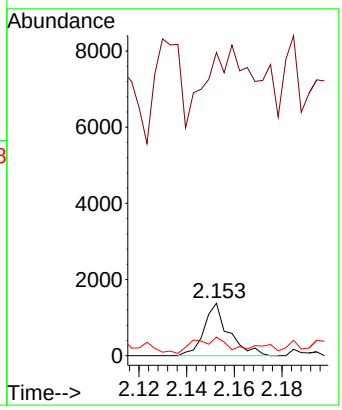


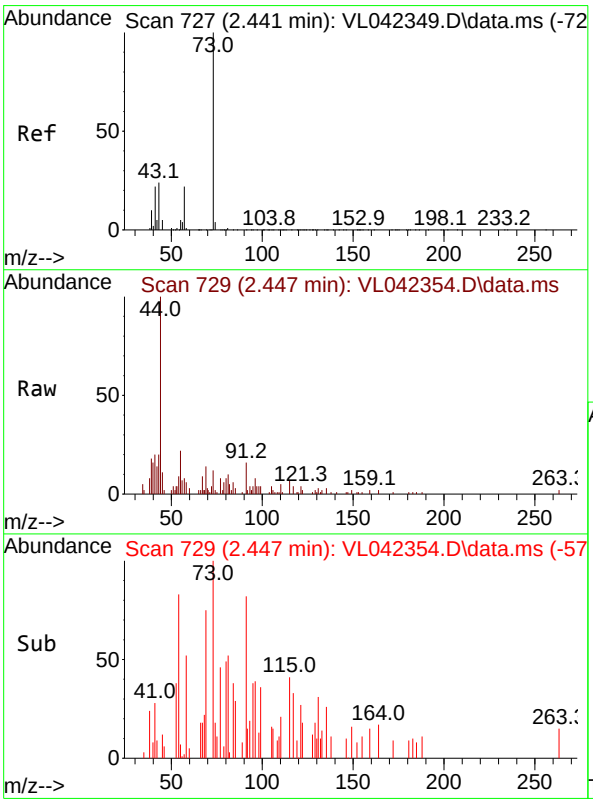
#27
Carbon Disulfide
Concen: 0.047 ppbv
RT: 2.152 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion: 76 Resp: 984

Ion	Ratio	Lower	Upper
76	100		
44	1141.4	15.5	23.3#
78	54.0	9.3	13.9#

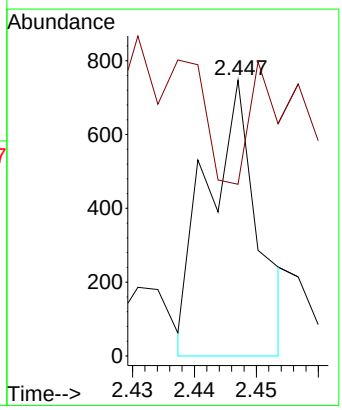


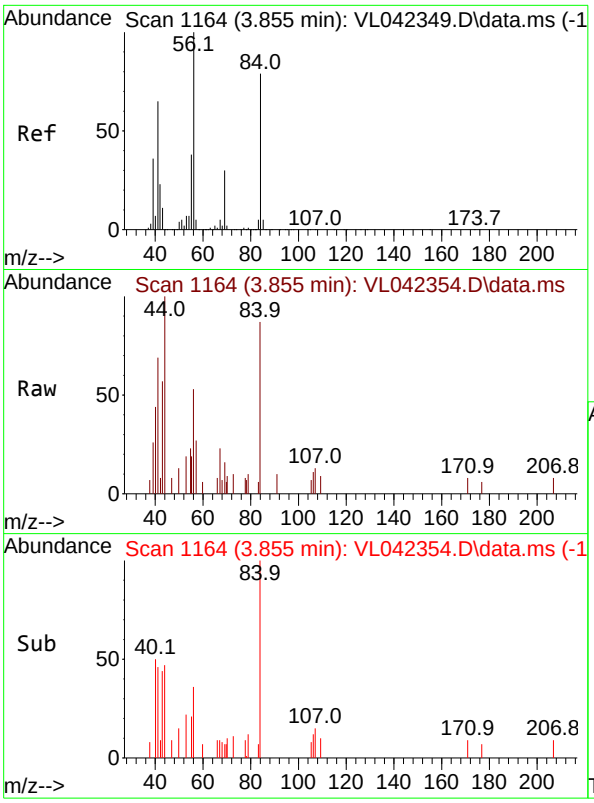


#28
Methyl tert-Butyl Ether
Concen: 0.033 ppbv
RT: 2.447 min Scan# 729
Delta R.T. 0.006 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Tgt Ion: 73 Resp: 426

Ion	Ratio	Lower	Upper
73	100		
57	0.0	21.3	31.9#



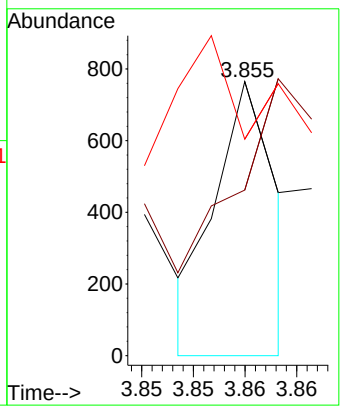


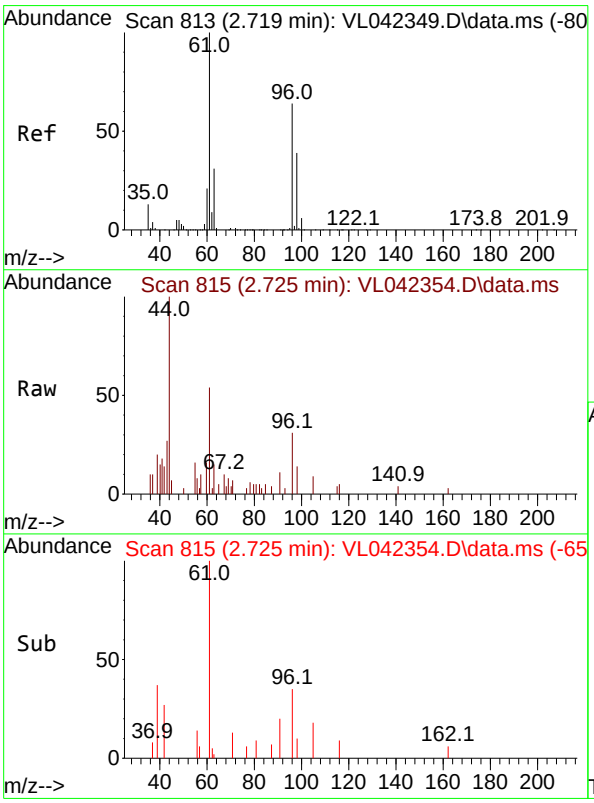
#30
Cyclohexane
Concen: 0.020 ppbv
RT: 3.855 min Scan# 11
Delta R.T. -0.000 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion: 84 Resp: 311

Ion	Ratio	Lower	Upper
84	100		
56	0.0	101.0	151.4#
41	0.0	67.4	101.0#

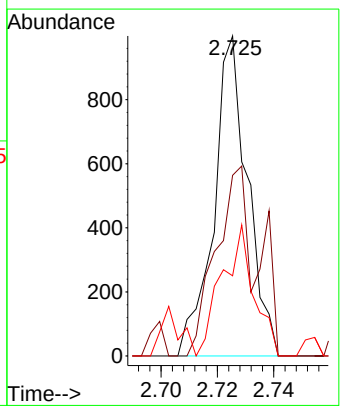


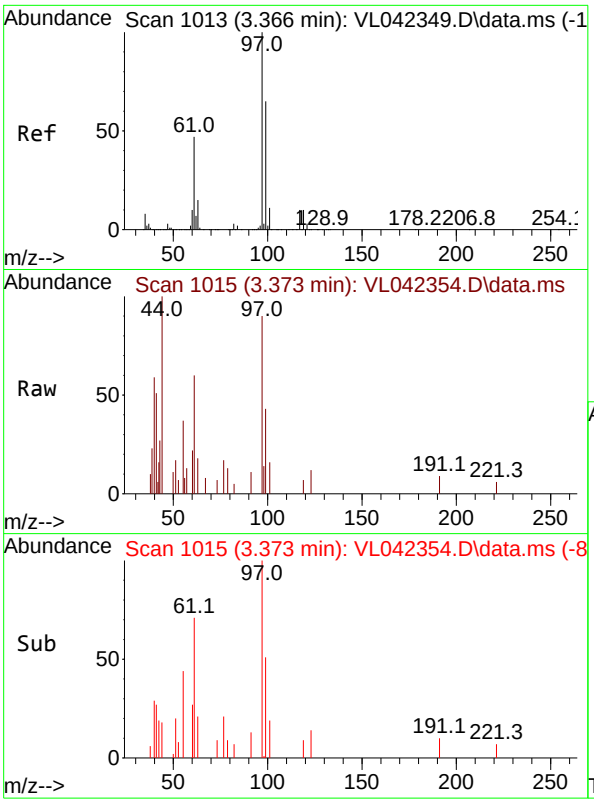


#31
cis-1,2-Dichloroethene
Concen: 0.045 ppbv
RT: 2.725 min Scan# 815
Delta R.T. 0.006 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Tgt Ion: 61 Resp: 831

Ion	Ratio	Lower	Upper
61	100		
96	56.5	50.8	76.2
98	25.0	30.9	46.3#



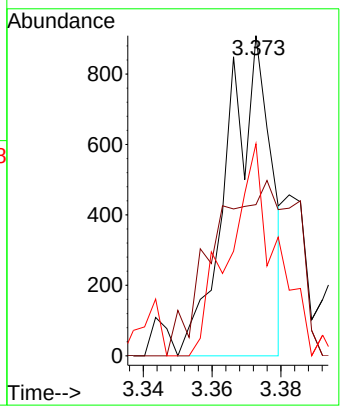


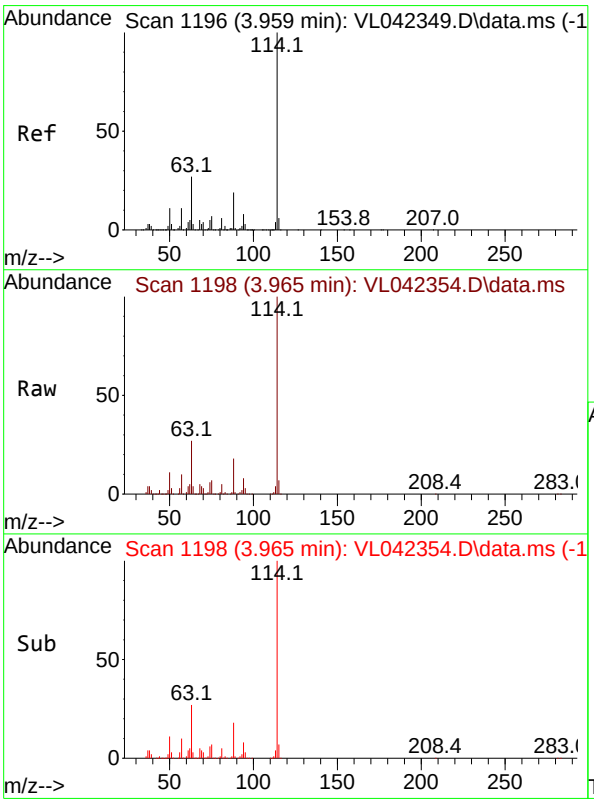
#32
1,1,1-Trichloroethane
Concen: 0.027 ppbv
RT: 3.373 min Scan# 1
Delta R.T. 0.006 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion: 97 Resp: 809

Ion	Ratio	Lower	Upper
97	100		
99	103.0	51.0	76.4#
61	78.7	38.8	58.2#

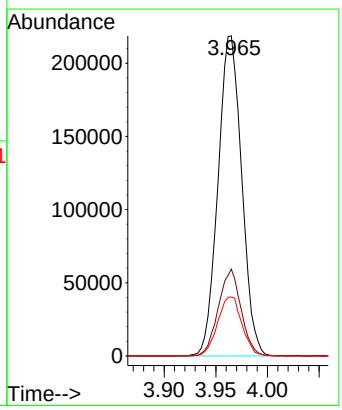


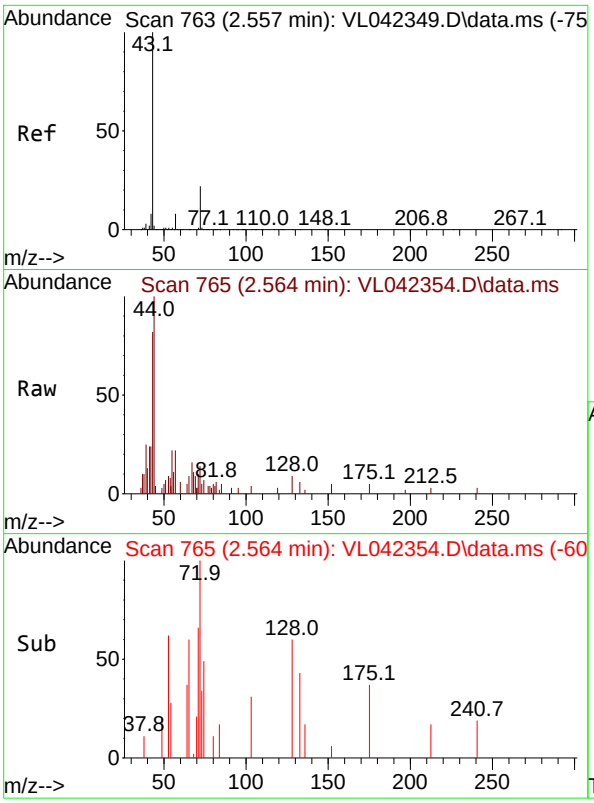


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.965 min Scan# 1198
Delta R.T. 0.006 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Tgt Ion:114 Resp: 349264

Ion	Ratio	Lower	Upper
114	100		
63	26.0	21.8	32.6
88	19.0	15.5	23.3



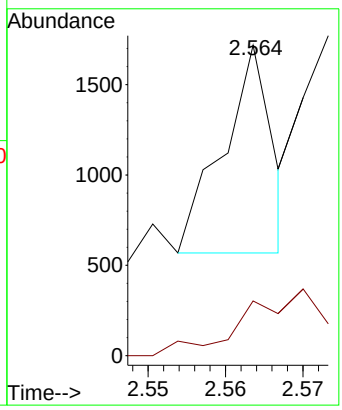


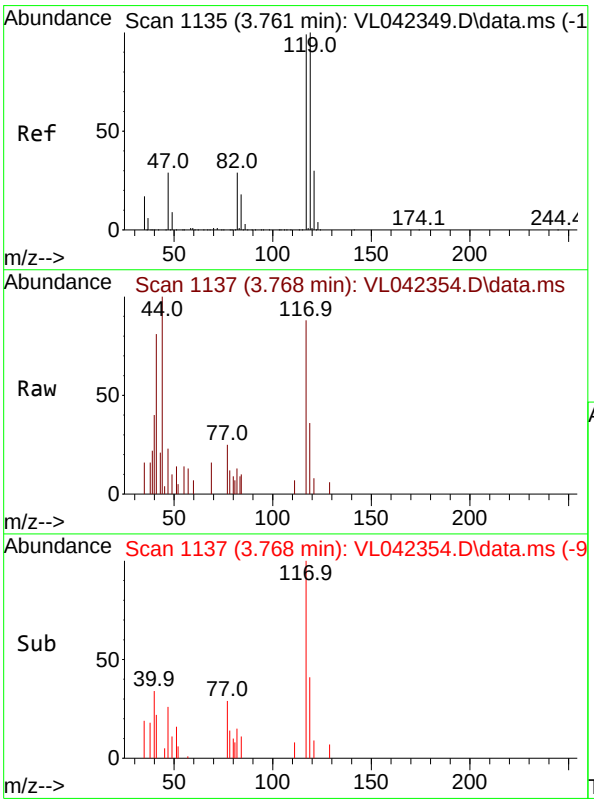
#34
2-Butanone
Concen: 0.018 ppbv
RT: 2.564 min Scan# 7
Delta R.T. 0.006 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion: 43 Resp: 510

Ion	Ratio	Lower	Upper
43	100		
72	0.0	18.2	27.2#

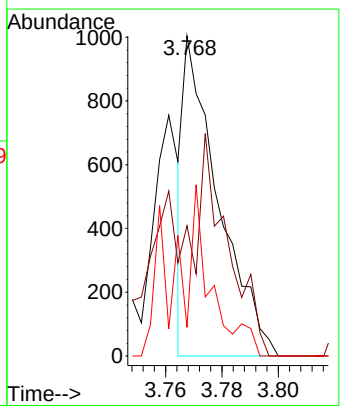


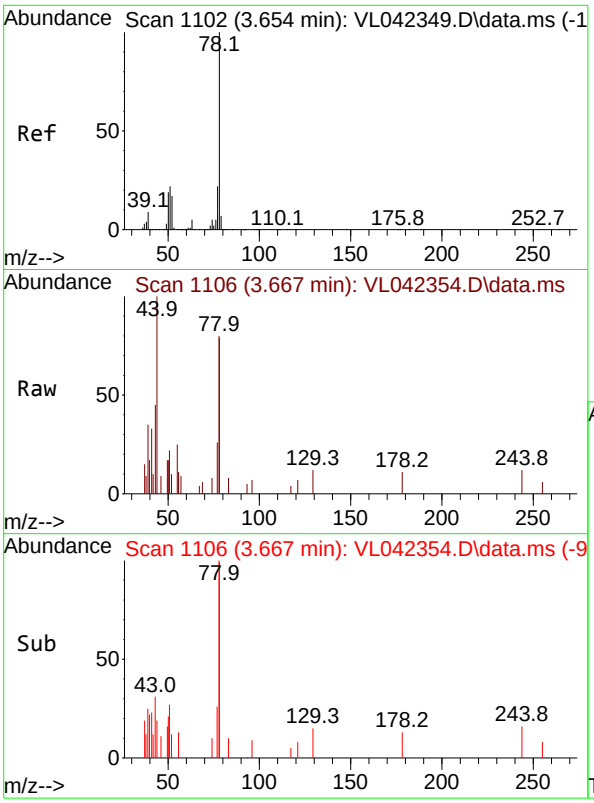


#35
Carbon Tetrachloride
Concen: 0.027 ppbv
RT: 3.768 min Scan# 1137
Delta R.T. 0.006 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Tgt Ion:117 Resp: 862

Ion	Ratio	Lower	Upper
117	100		
119	40.6	80.5	120.7#
121	9.0	24.2	36.2#



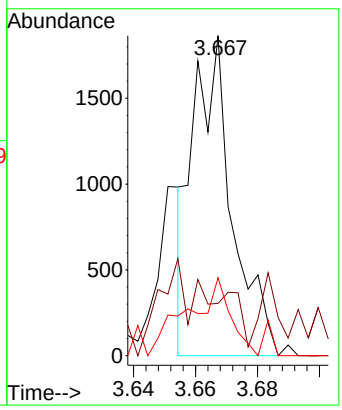


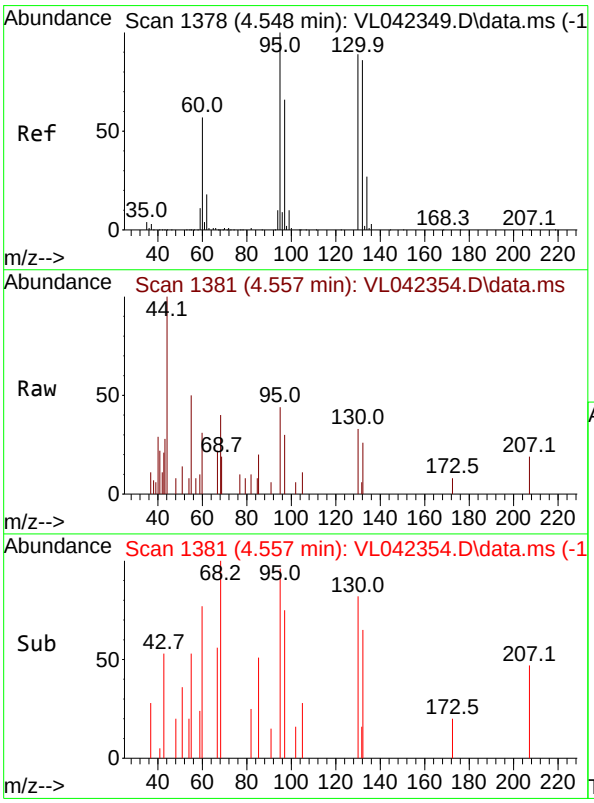
#36
Benzene
Concen: 0.043 ppbv
RT: 3.667 min Scan# 1
Delta R.T. 0.013 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion: 78 Resp: 1629

Ion	Ratio	Lower	Upper
78	100		
77	4.6	17.4	26.0#
50	25.2	15.5	23.3#

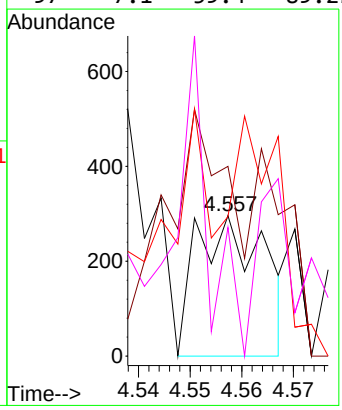


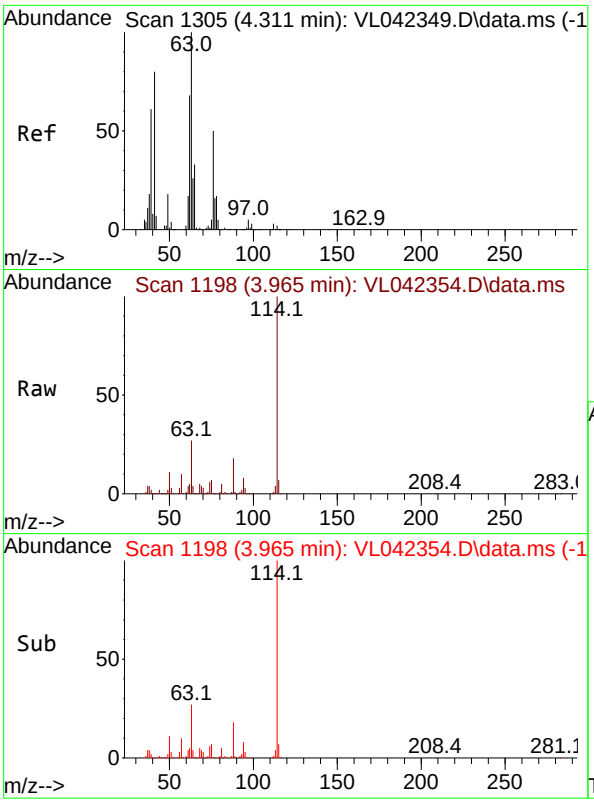


#38
Trichloroethene
Concen: 0.016 ppbv
RT: 4.557 min Scan# 1381
Delta R.T. 0.010 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Tgt Ion:130 Resp: 271

Ion	Ratio	Lower	Upper
130	100		
95	44.6	89.8	134.6#
132	19.6	77.7	116.5#
97	7.1	59.4	89.2#



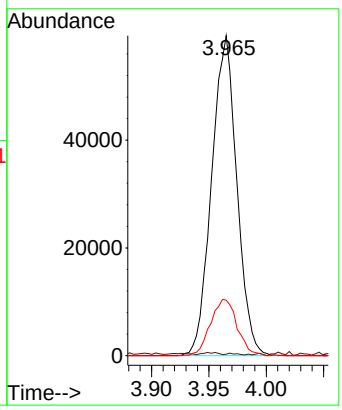


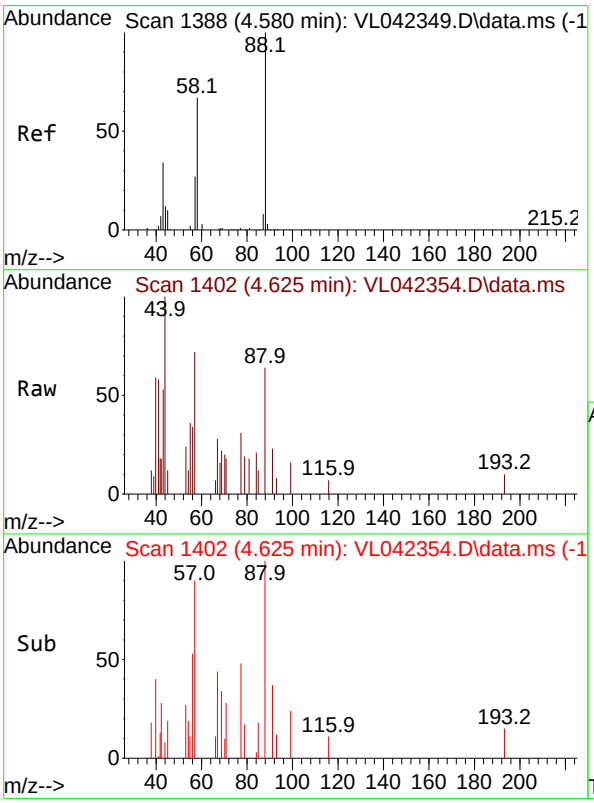
#39
1,2-Dichloropropane
Concen: 6.465 ppbv
RT: 3.965 min Scan# 1
Delta R.T. -0.346 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion: 63 Resp: 90827

Ion	Ratio	Lower	Upper
63	100		
41	0.0	64.2	96.2#
62	17.4	54.3	81.5#

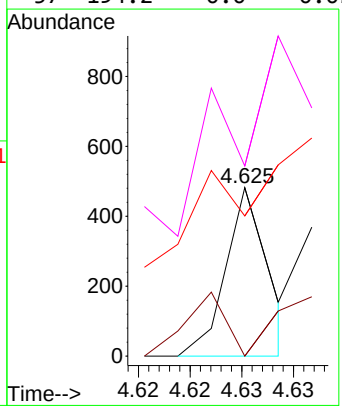


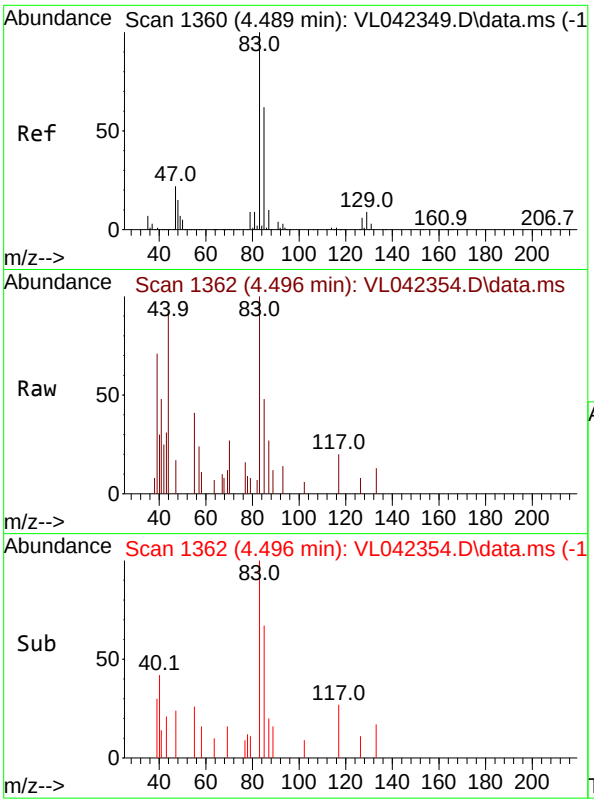


#40
1,4-Dioxane
Concen: 0.018 ppbv
RT: 4.625 min Scan# 1402
Delta R.T. 0.045 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Tgt Ion: 88 Resp: 139

Ion	Ratio	Lower	Upper
88	100		
58	0.0	61.4	92.0#
43	251.8	23.2	34.8#
57	194.2	0.0	0.0#



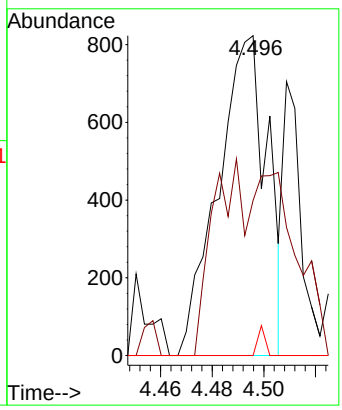


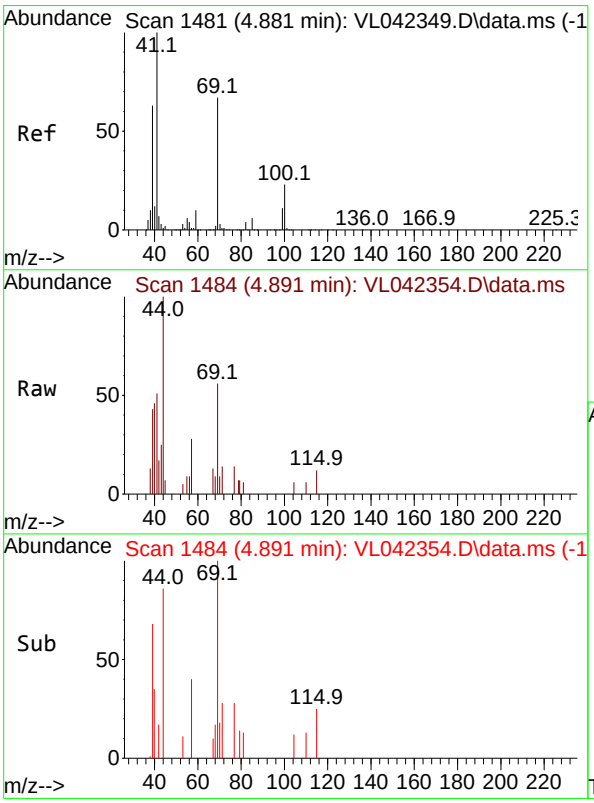
#42
Bromodichloromethane
Concen: 0.035 ppbv
RT: 4.496 min Scan# 1
Delta R.T. 0.006 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion: 83 Resp: 1093

Ion	Ratio	Lower	Upper
83	100		
85	48.5	49.7	74.5#
127	0.0	5.1	7.7#

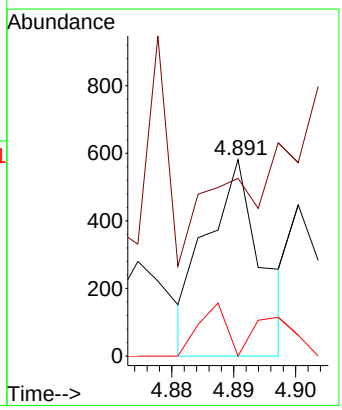


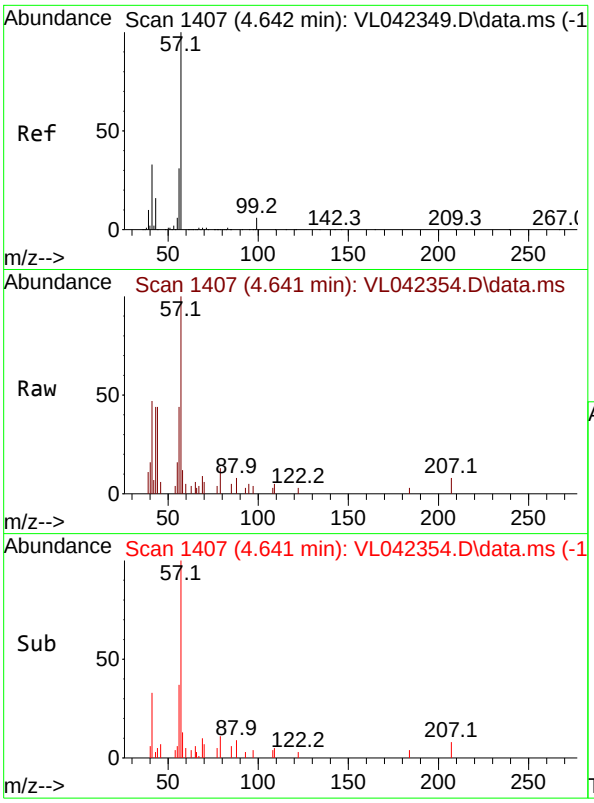


#43
Methyl Methacrylate
Concen: 0.021 ppbv
RT: 4.891 min Scan# 1484
Delta R.T. 0.010 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Tgt Ion: 69 Resp: 354

Ion	Ratio	Lower	Upper
69	100		
41	0.0	118.6	177.8#
100	40.7	28.2	42.2



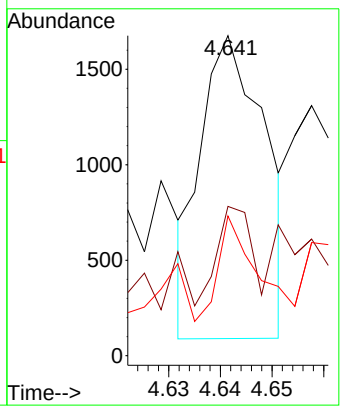


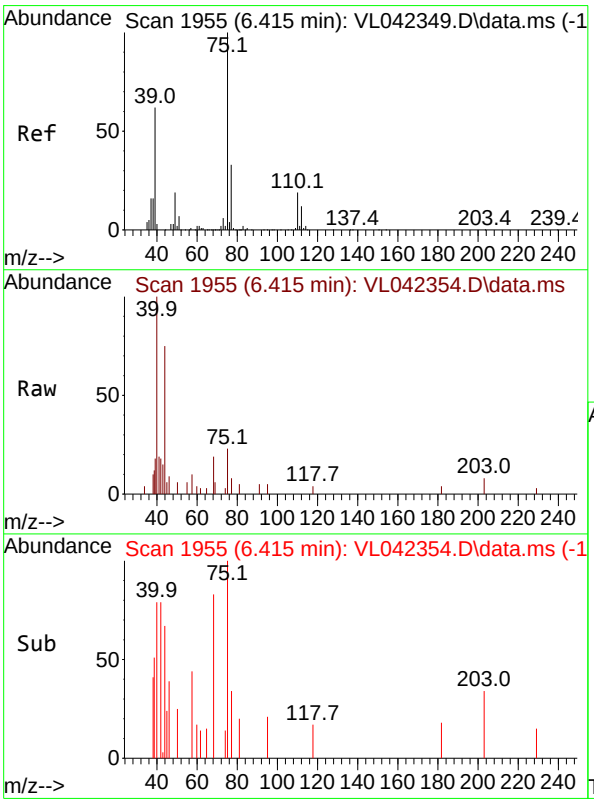
#44
2,2,4-Trimethylpentane
Concen: 0.021 ppbv
RT: 4.641 min Scan# 14
Delta R.T. -0.000 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion: 57 Resp: 1377

Ion	Ratio	Lower	Upper
57	100		
41	0.0	27.2	40.8#
56	139.0	25.7	38.5#

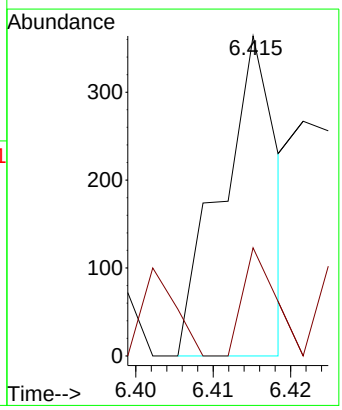


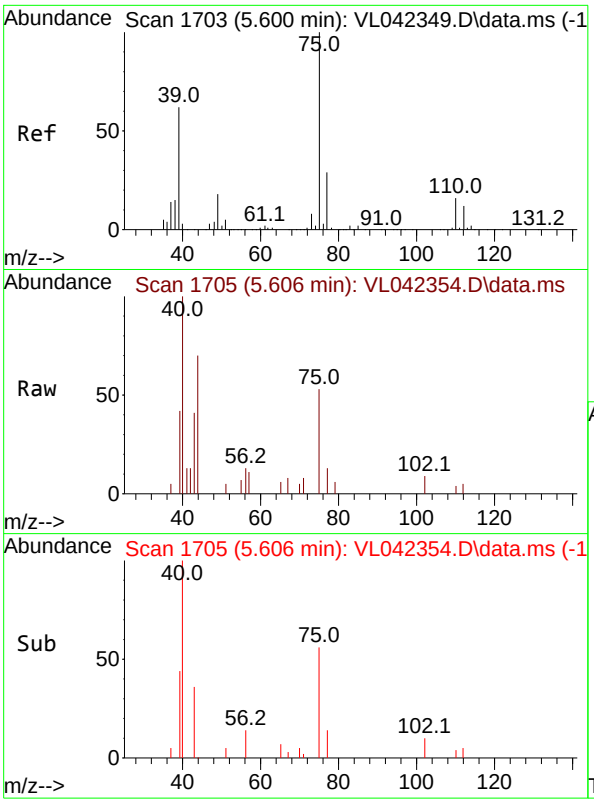


#45
t-1,3-Dichloropropene
Concen: 0.011 ppbv
RT: 6.415 min Scan# 1955
Delta R.T. -0.000 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Tgt Ion: 75 Resp: 183

Ion	Ratio	Lower	Upper
75	100		
77	33.8	27.0	40.6



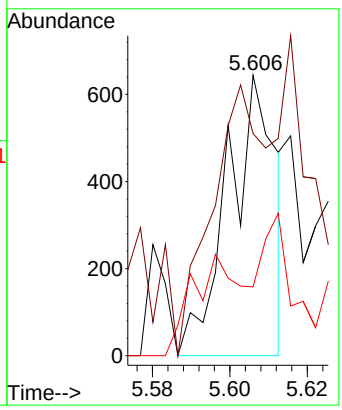


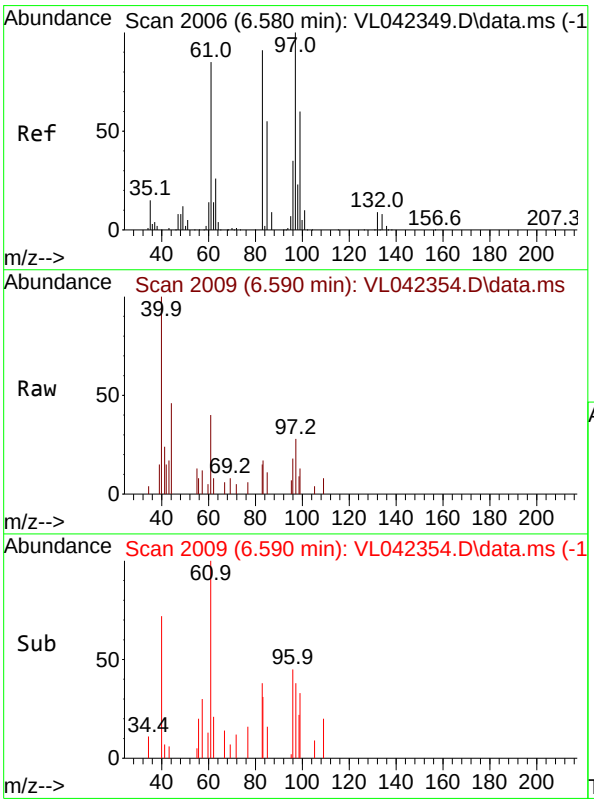
#46
cis-1,3-Dichloropropene
Concen: 0.026 ppbv
RT: 5.606 min Scan# 1
Delta R.T. 0.006 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion: 75 Resp: 546

Ion	Ratio	Lower	Upper
75	100		
39	1.7	50.0	75.0#
77	13.7	23.0	34.6#

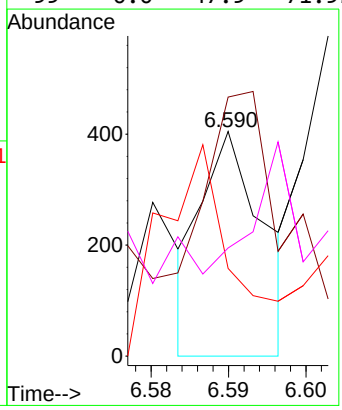


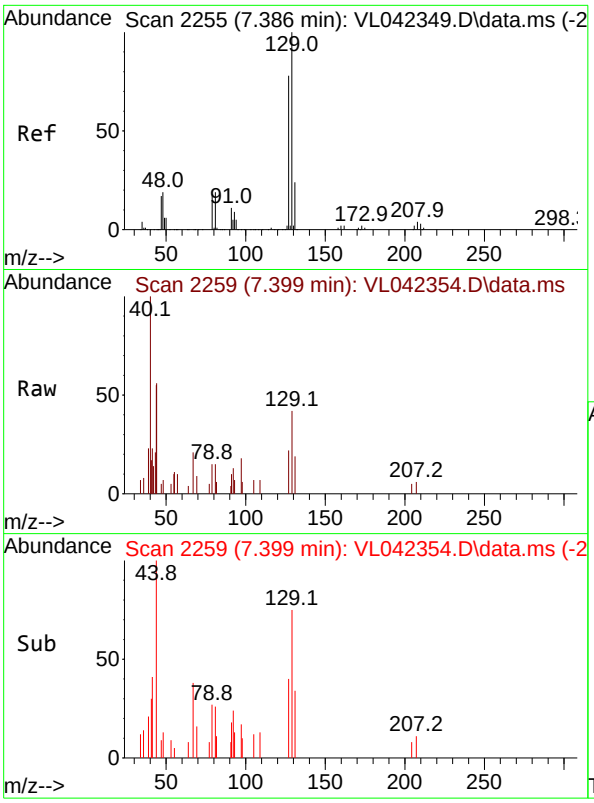


#47
1,1,2-Trichloroethane
Concen: 0.016 ppbv
RT: 6.590 min Scan# 2009
Delta R.T. 0.010 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Tgt Ion: 97 Resp: 225

Ion	Ratio	Lower	Upper
97	100		
83	149.5	72.8	109.2#
85	27.8	44.2	66.4#
99	0.0	47.9	71.9#



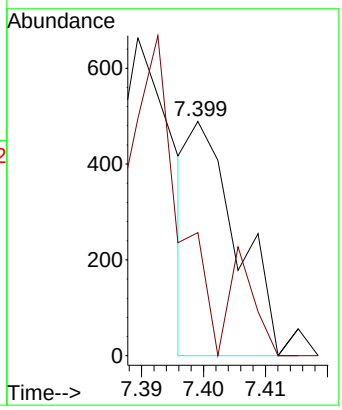


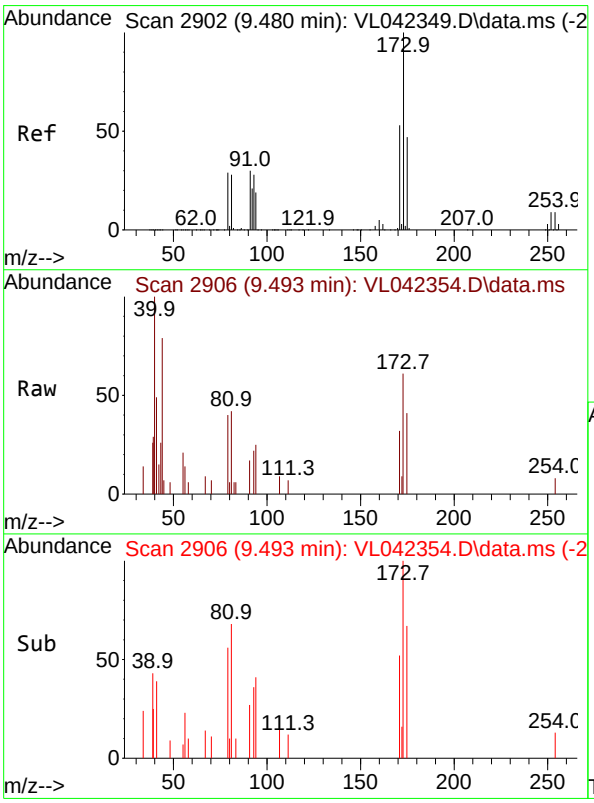
#48
Dibromochloromethane
Concen: 0.010 ppbv
RT: 7.399 min Scan# 2
Delta R.T. 0.013 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion:129 Resp: 258

Ion	Ratio	Lower	Upper
129	100		
127	0.0	39.1	117.3#

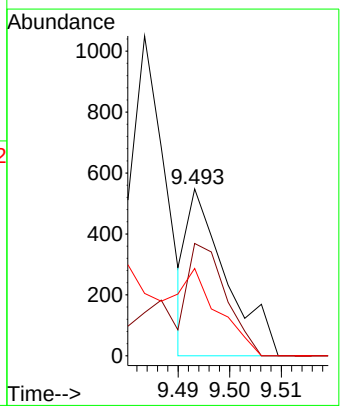


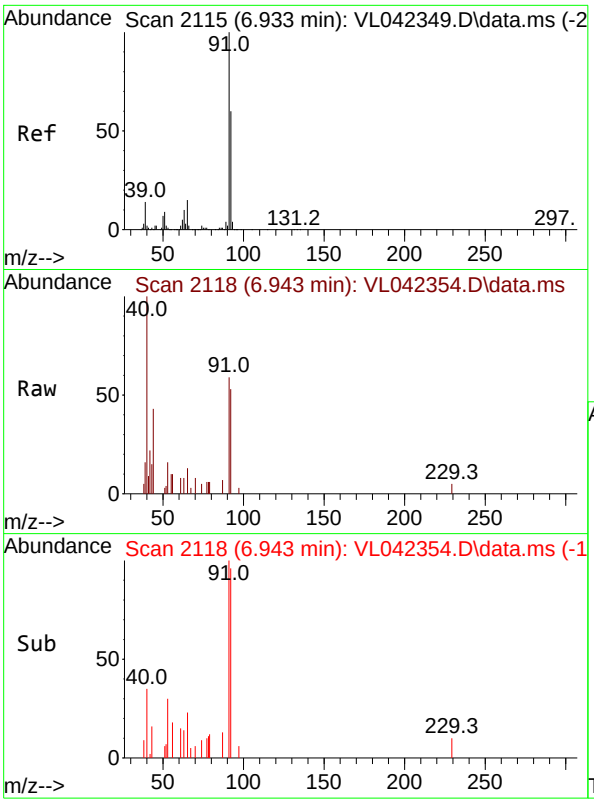


#49
Bromoform
Concen: 0.013 ppbv
RT: 9.493 min Scan# 2906
Delta R.T. 0.013 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Tgt Ion:173 Resp: 285

Ion	Ratio	Lower	Upper
173	100		
175	145.3	38.2	57.2#
171	11.9	40.9	61.3#



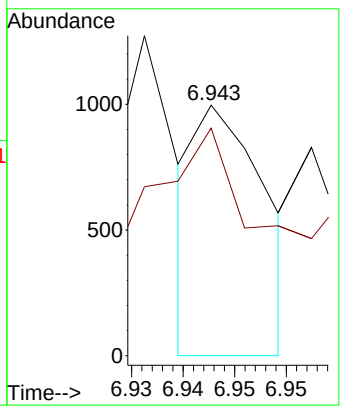


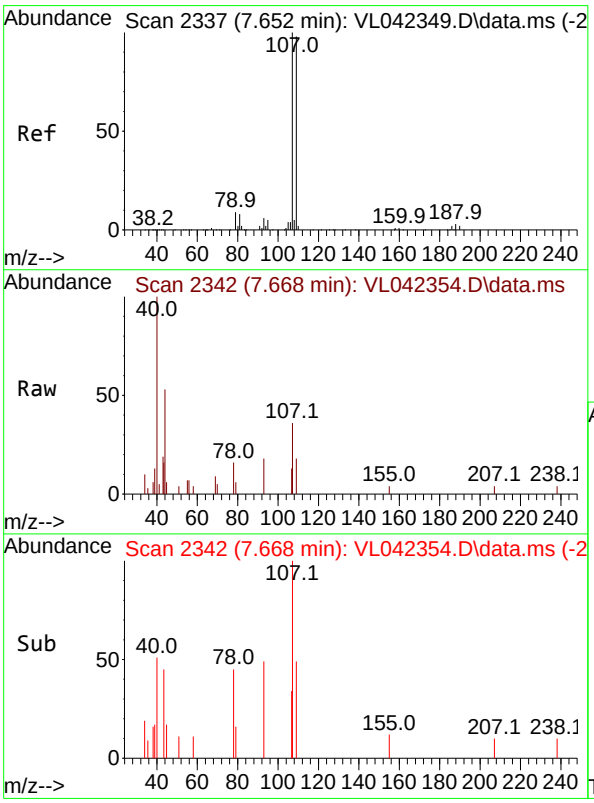
#53
Toluene
Concen: 0.010 ppbv
RT: 6.943 min Scan# 21
Delta R.T. 0.010 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion: 91 Resp: 464

Ion	Ratio	Lower	Upper
91	100		
92	289.2	48.2	72.4#

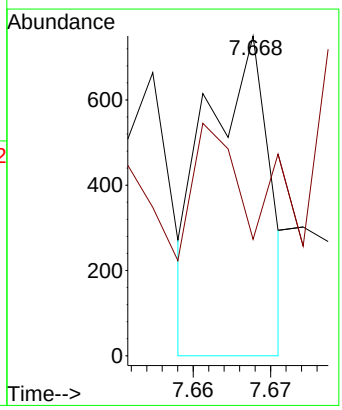


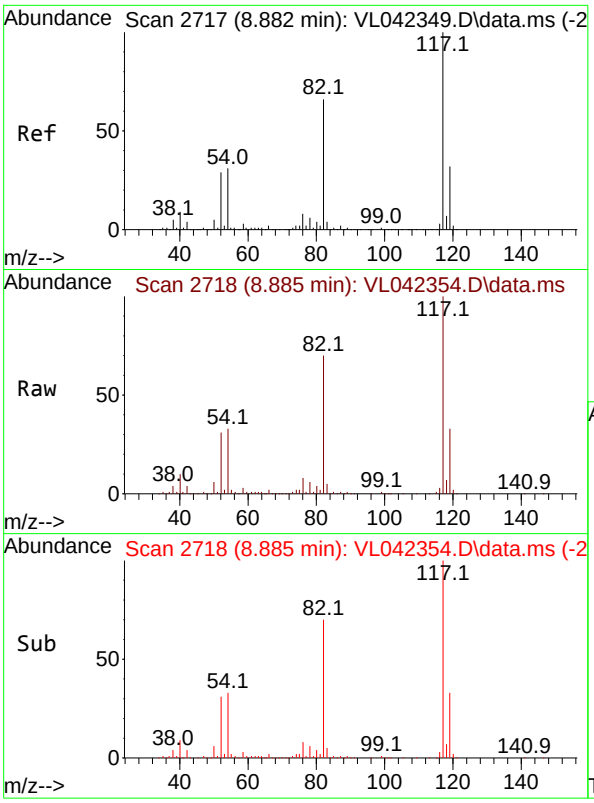


#54
1,2-Dibromoethane
Concen: 0.021 ppbv
RT: 7.668 min Scan# 2342
Delta R.T. 0.016 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Tgt Ion:107 Resp: 422

Ion	Ratio	Lower	Upper
107	100		
109	10.4	78.2	117.4#



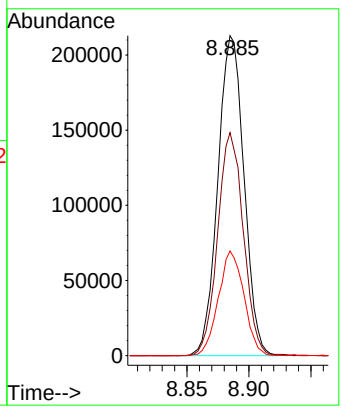


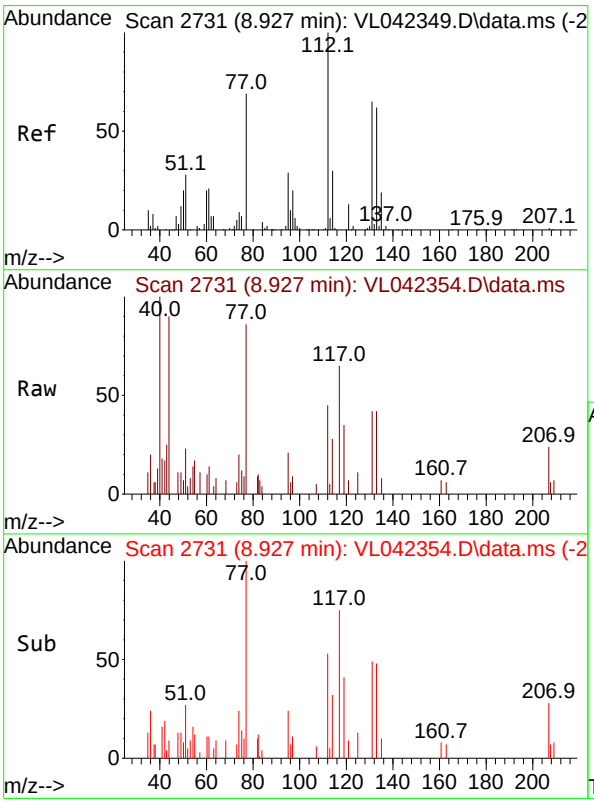
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.885 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion:117 Resp: 312999

Ion	Ratio	Lower	Upper
117	100		
82	68.5	57.8	86.6
119	32.2	25.2	37.8

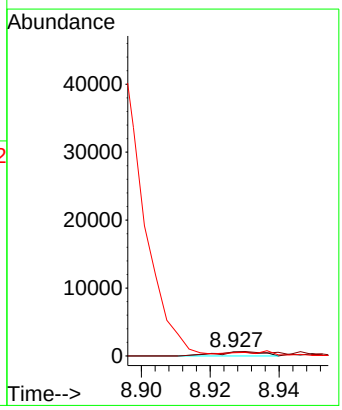


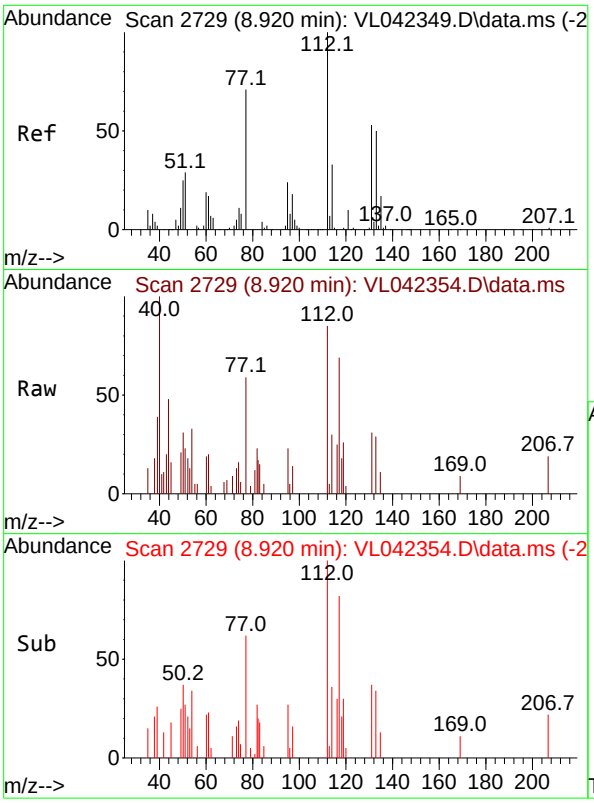


#56
1,1,1,2-Tetrachloroethane
Concen: 0.031 ppbv
RT: 8.927 min Scan# 2731
Delta R.T. -0.000 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Tgt Ion:131 Resp: 589

Ion	Ratio	Lower	Upper
131	100		
133	185.9	78.3	117.5#
119	17165.0	48.7	73.1#



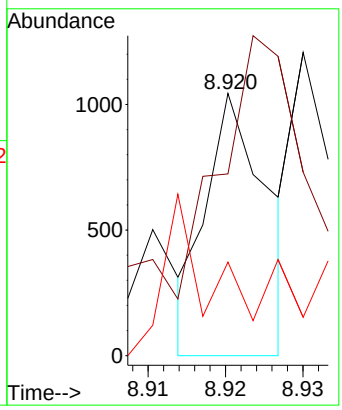


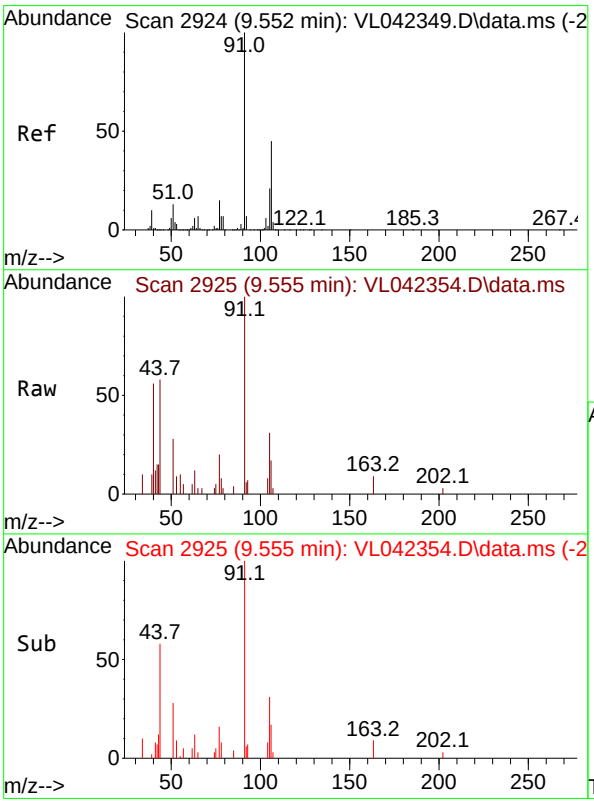
#57
Chlorobenzene
Concen: 0.017 ppbv
RT: 8.920 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion:112 Resp: 567

Ion	Ratio	Lower	Upper
112	100		
77	62.5	57.8	86.6
114	0.0	29.3	35.9#

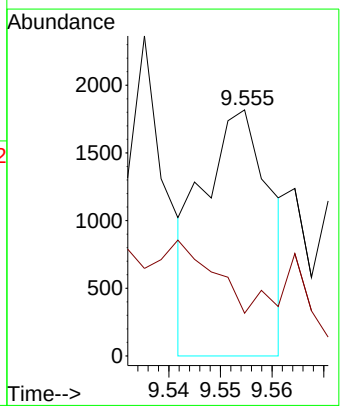


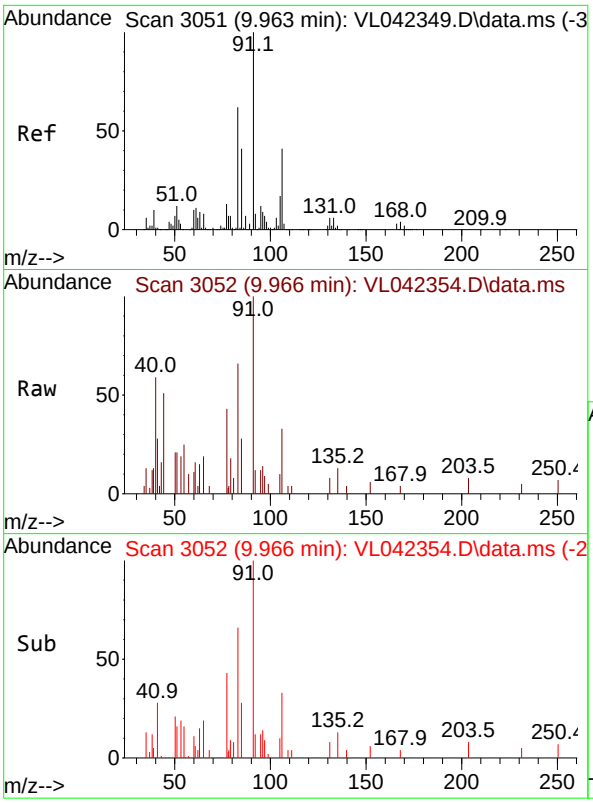


#59
m/p-Xylene
Concen: 0.033 ppbv
RT: 9.555 min Scan# 2925
Delta R.T. 0.003 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Tgt Ion: 91 Resp: 1648

Ion	Ratio	Lower	Upper
91	100		
106	0.0	35.4	53.2#



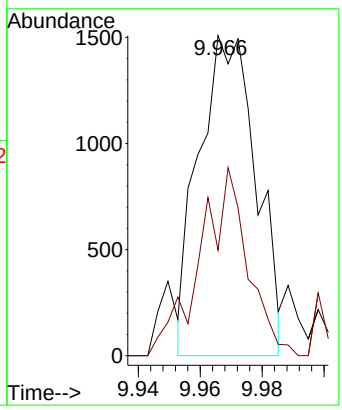


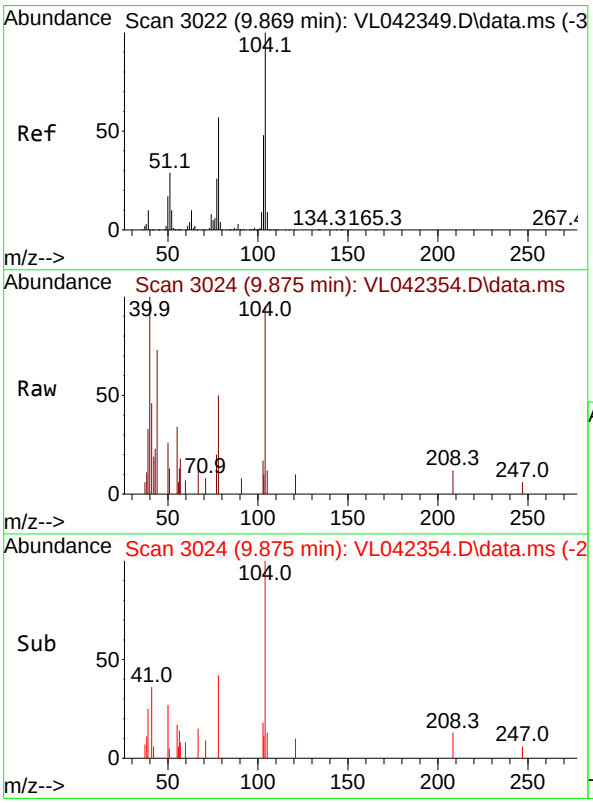
#60
o-Xylene
Concen: 0.039 ppbv
RT: 9.966 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion: 91 Resp: 1938

Ion	Ratio	Lower	Upper
91	100		
106	52.6	21.1	63.4

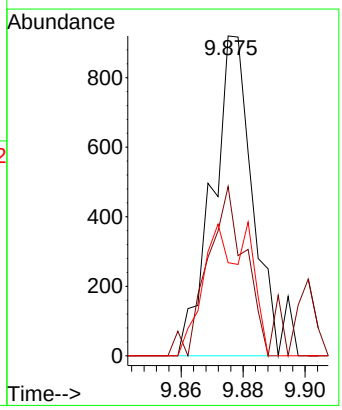


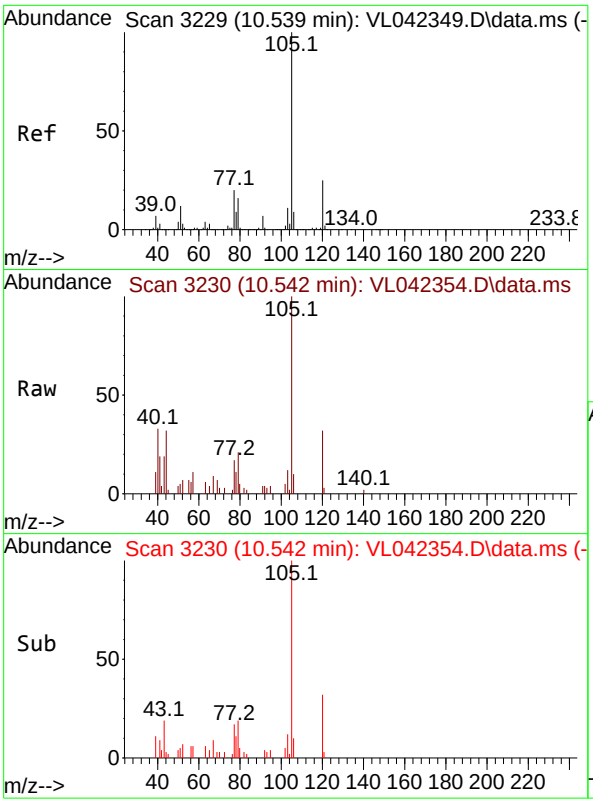


#61
Styrene
Concen: 0.034 ppbv
RT: 9.875 min Scan# 3024
Delta R.T. 0.006 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Tgt Ion:104 Resp: 813

Ion	Ratio	Lower	Upper
104	100		
78	64.9	44.6	66.8
103	47.1	37.4	56.0



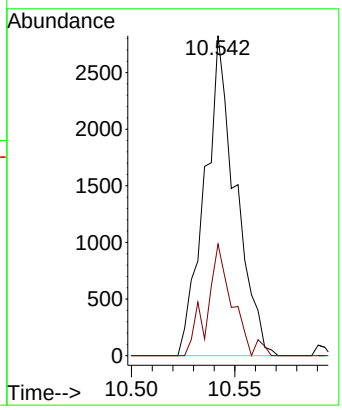


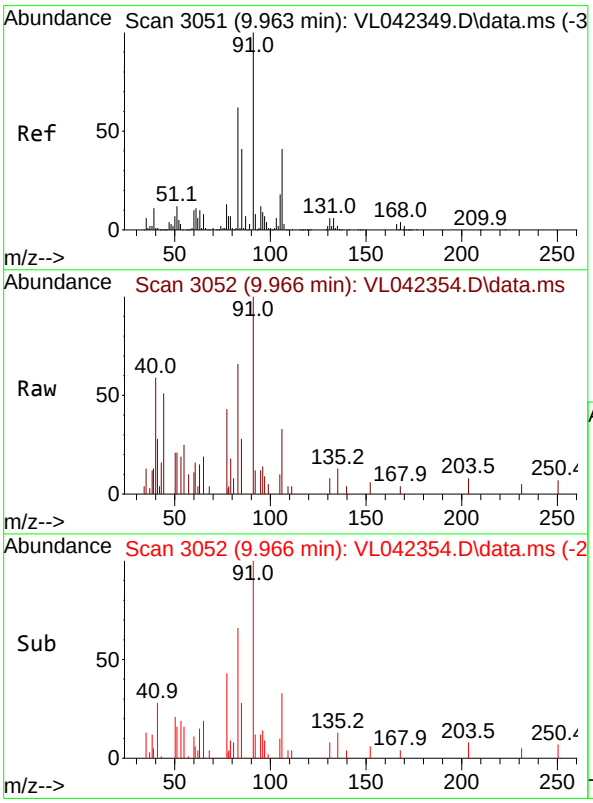
#62
Isopropylbenzene
Concen: 0.040 ppbv
RT: 10.542 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion:105 Resp: 2934

Ion	Ratio	Lower	Upper
105	100		
120	28.8	19.8	29.8

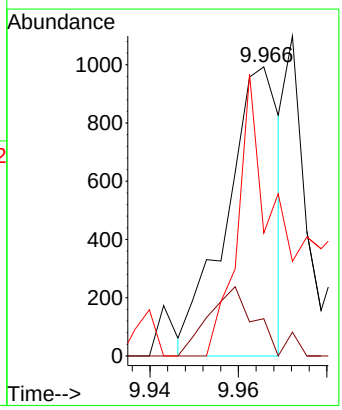


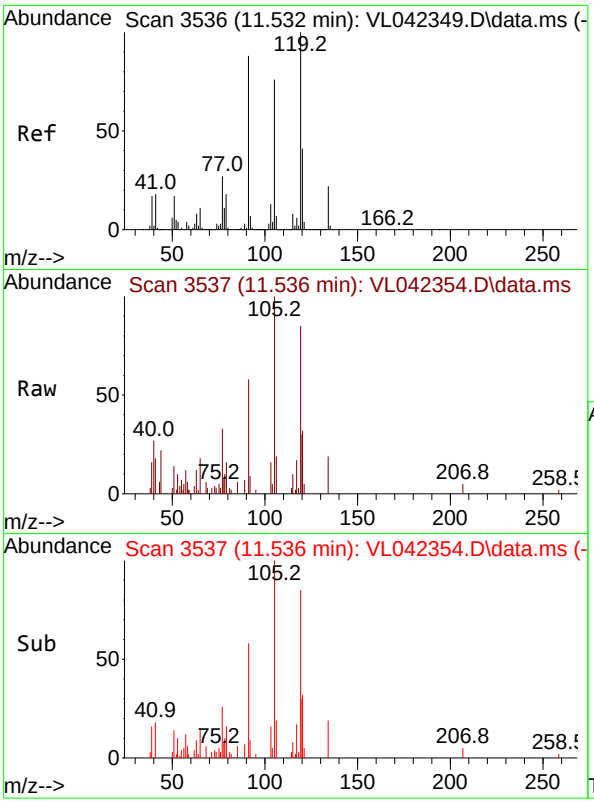


#63
1,1,2,2-Tetrachloroethane
Concen: 0.025 ppbv
RT: 9.966 min Scan# 3052
Delta R.T. 0.003 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Tgt Ion: 83 Resp: 826

Ion	Ratio	Lower	Upper
83	100		
131	22.3	4.5	13.7#
85	98.2	32.4	97.0#



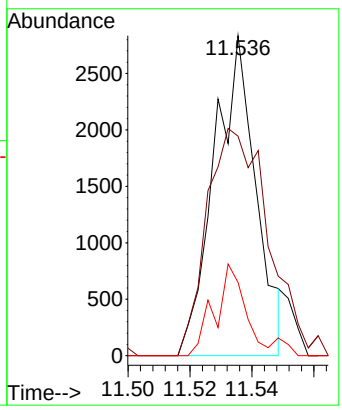


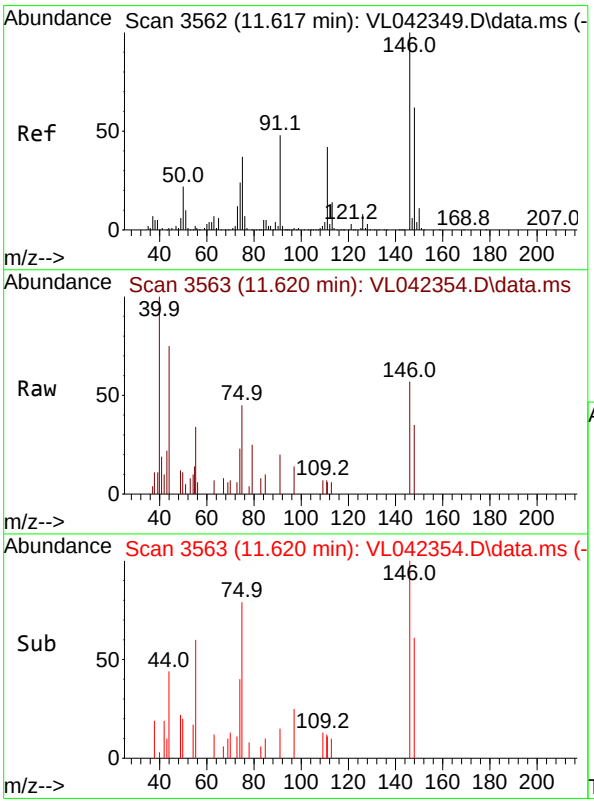
#65
tert-Butylbenzene
Concen: 0.039 ppbv
RT: 11.536 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion:119 Resp: 2656

Ion	Ratio	Lower	Upper
119	100		
91	104.4	74.6	111.8
134	22.5	18.8	28.2

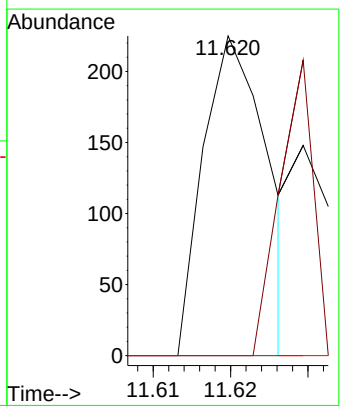


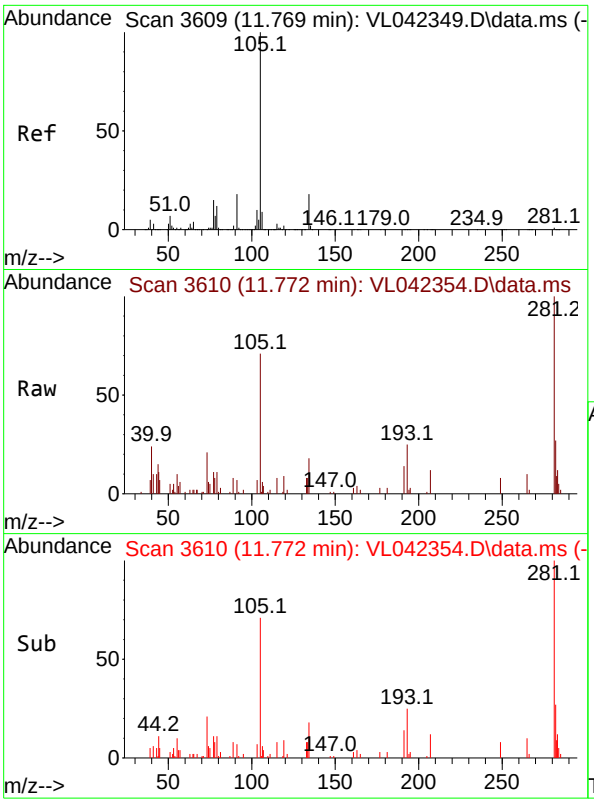


#66
Benzyl Chloride
Concen: 0.017 ppbv
RT: 11.620 min Scan# 3563
Delta R.T. 0.003 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Tgt Ion: 91 Resp: 130

Ion	Ratio	Lower	Upper
91	100		
126	0.0	11.8	17.6#
128	0.0	4.5	6.7#



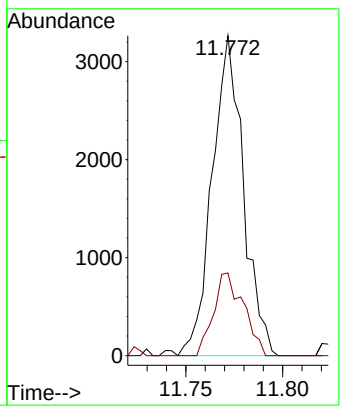


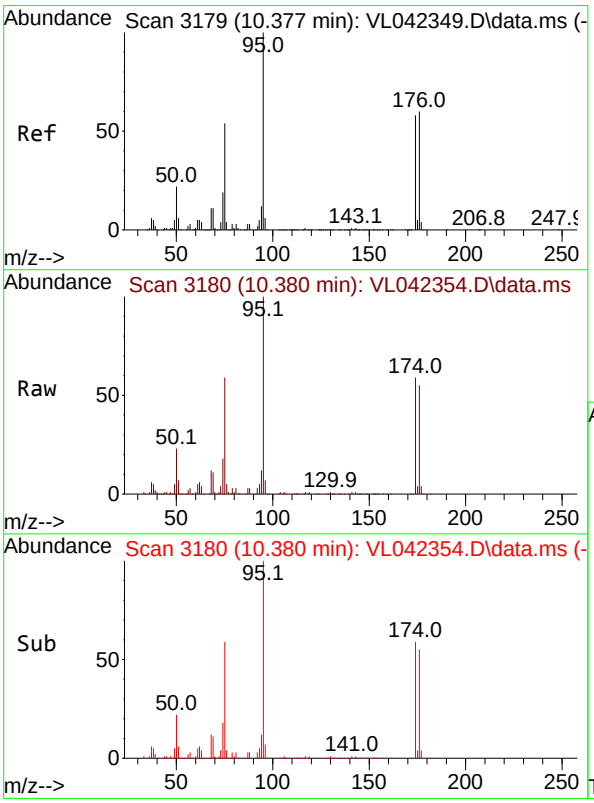
#67
sec-Butylbenzene
Concen: 0.039 ppbv
RT: 11.772 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion:105 Resp: 3658

Ion	Ratio	Lower	Upper
105	100		
134	24.8	14.6	21.8#

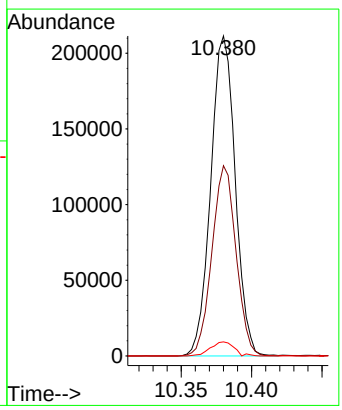


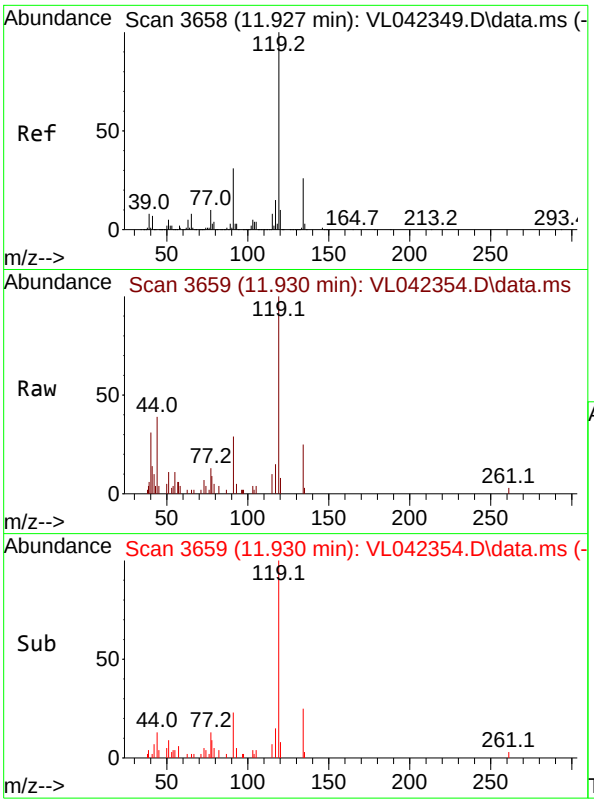


#68
1-Bromo-4-Fluorobenzene
Concen: 9.962 ppbv
RT: 10.380 min Scan# 3180
Delta R.T. 0.003 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Tgt Ion: 95 Resp: 256230

Ion	Ratio	Lower	Upper
95	100		
174	58.6	48.5	72.7
175	4.3	3.7	5.5



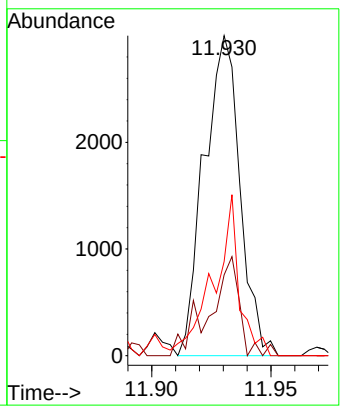


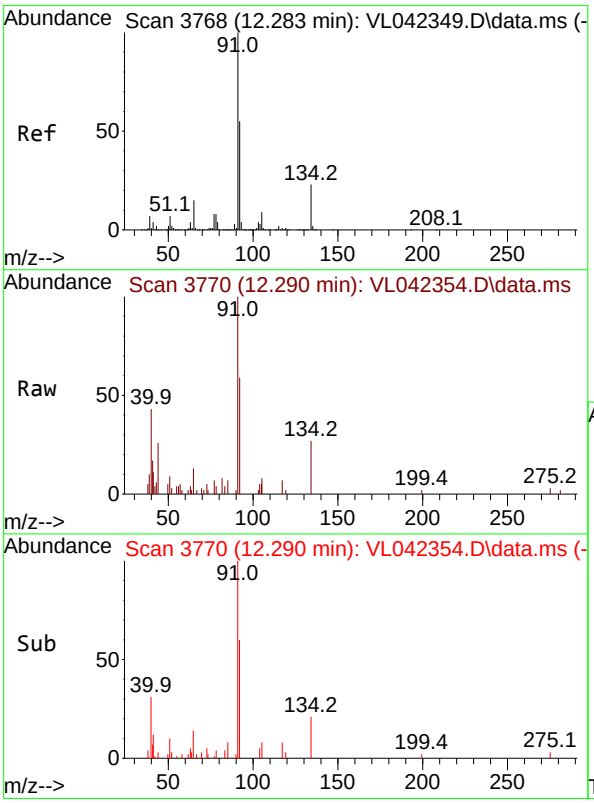
#69
p-Isopropyltoluene
Concen: 0.038 ppbv
RT: 11.930 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion:119 Resp: 3139

Ion	Ratio	Lower	Upper
119	100		
134	25.9	20.0	30.0
91	35.7	24.4	36.6

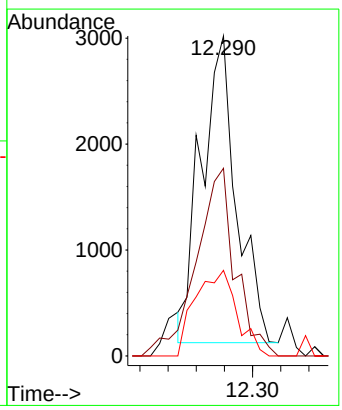


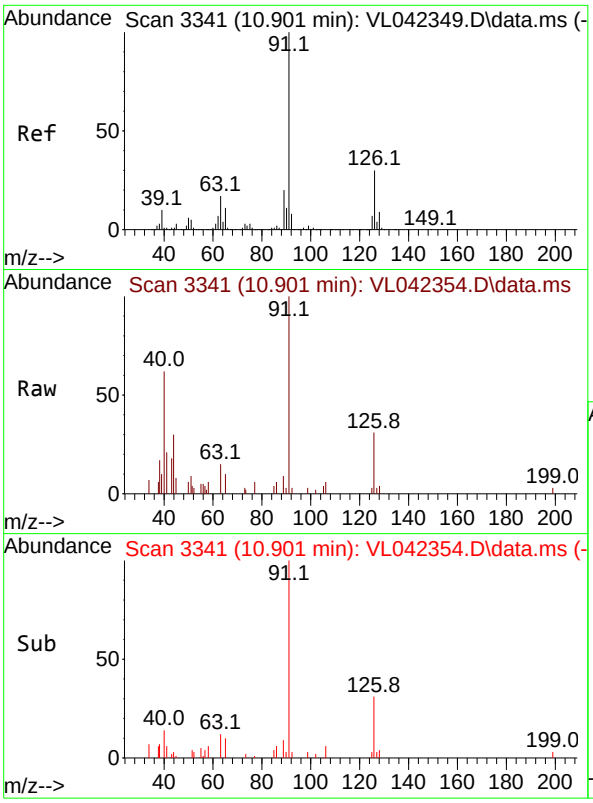


#70
n-Butylbenzene
Concen: 0.029 ppbv
RT: 12.290 min Scan# 3770
Delta R.T. 0.006 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Tgt Ion: 91 Resp: 2516

Ion	Ratio	Lower	Upper
91	100		
92	67.4	44.2	66.4#
134	34.4	18.2	27.4#



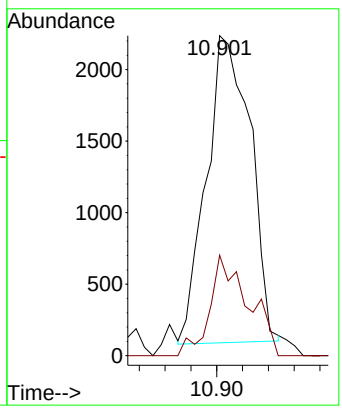


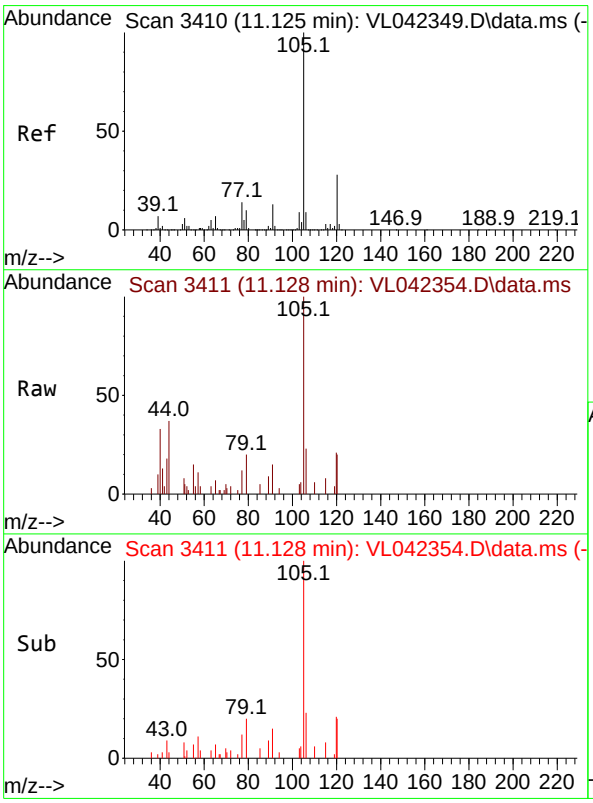
#71
2-Chlorotoluene
Concen: 0.044 ppbv
RT: 10.901 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion: 91 Resp: 2537

Ion	Ratio	Lower	Upper
91	100		
126	28.7	11.4	45.4

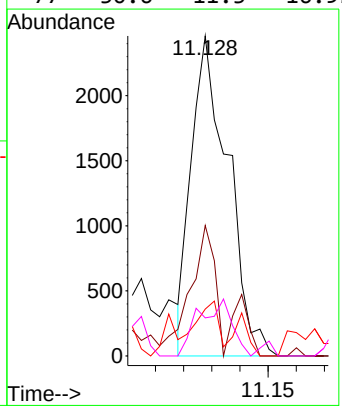


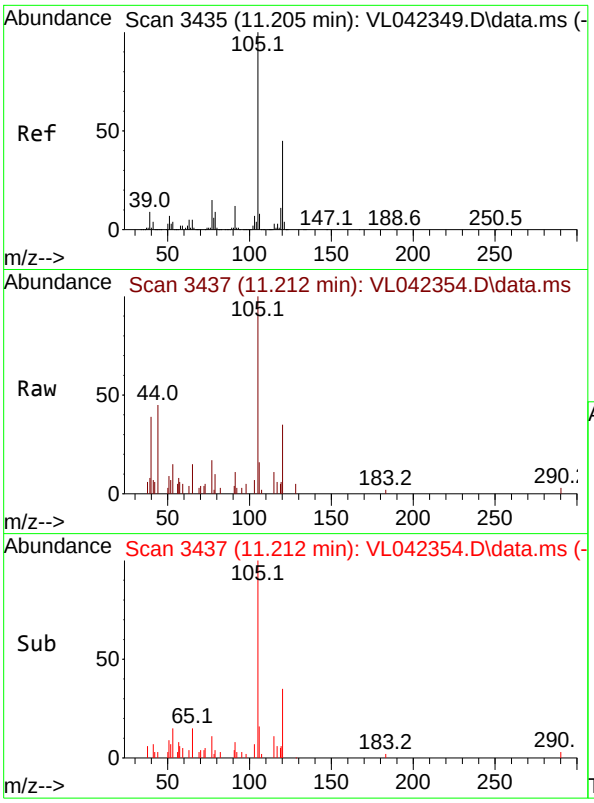


#72
4-Ethyltoluene
Concen: 0.036 ppbv
RT: 11.128 min Scan# 3411
Delta R.T. 0.003 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Tgt Ion:105 Resp: 2221

Ion	Ratio	Lower	Upper
105	100		
120	47.5	23.2	34.8#
91	8.3	10.4	15.6#
77	30.6	11.3	16.9#



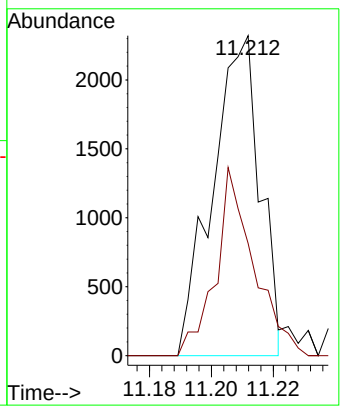


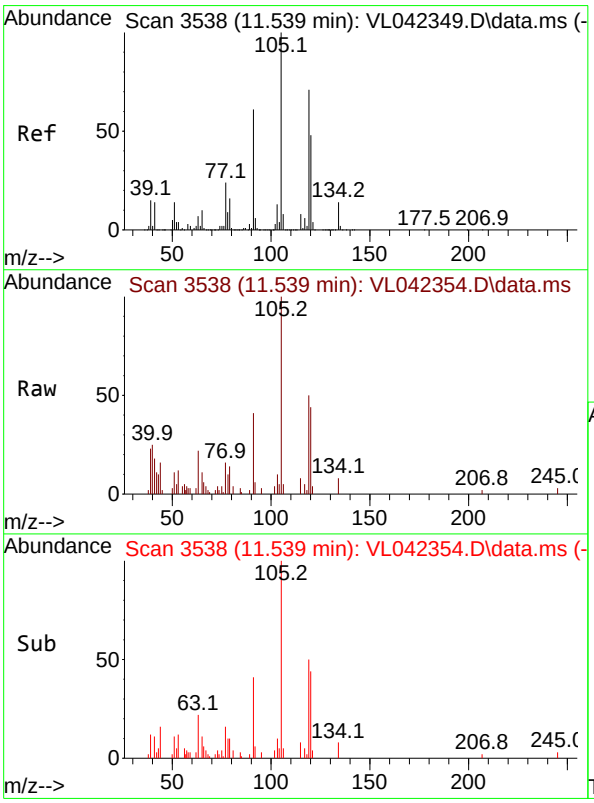
#73
1,3,5-Trimethylbenzene
Concen: 0.046 ppbv
RT: 11.212 min Scan# 34
Delta R.T. 0.006 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion:105 Resp: 2473

Ion	Ratio	Lower	Upper
105	100		
120	35.1	35.6	53.4#

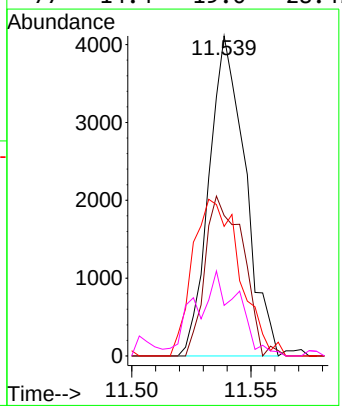


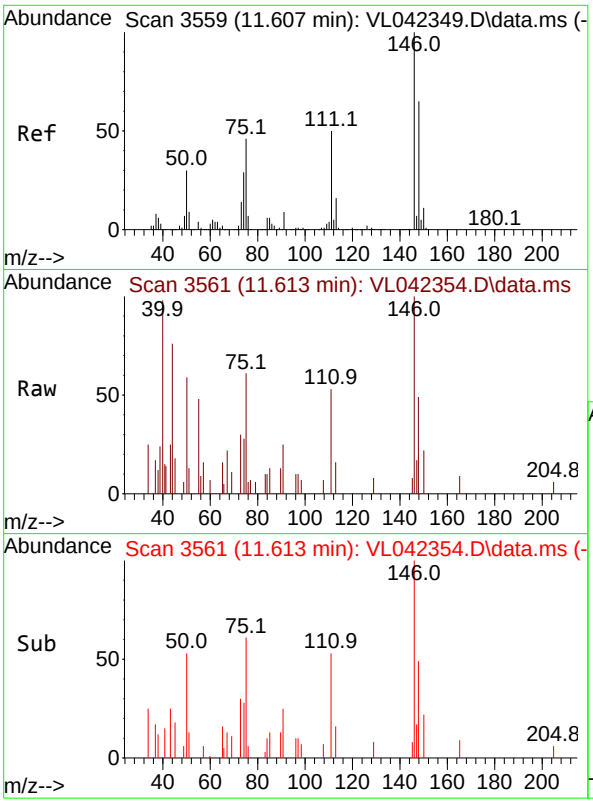


#74
1,2,4-Trimethylbenzene
Concen: 0.068 ppbv
RT: 11.539 min Scan# 3538
Delta R.T. -0.000 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Tgt Ion:105 Resp: 4320

Ion	Ratio	Lower	Upper
105	100		
120	43.9	38.1	57.1
91	36.2	48.8	73.2#
77	14.4	19.0	28.4#



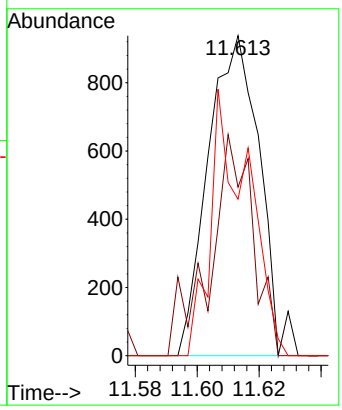


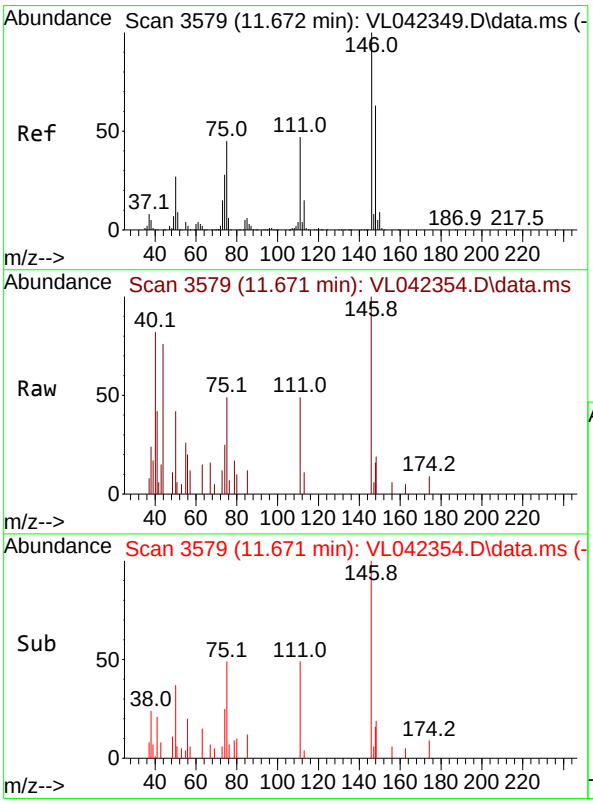
#75
1,3-Dichlorobenzene
Concen: 0.032 ppbv
RT: 11.613 min Scan# 3
Delta R.T. 0.006 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion:146 Resp: 1056

Ion	Ratio	Lower	Upper
146	100		
111	61.1	24.3	72.8
148	62.4	31.6	94.8

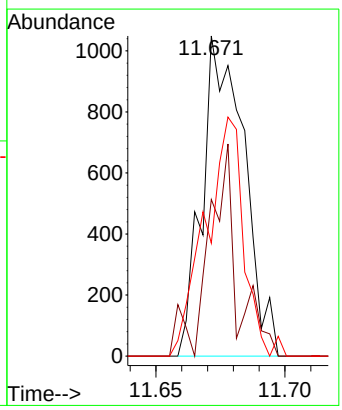


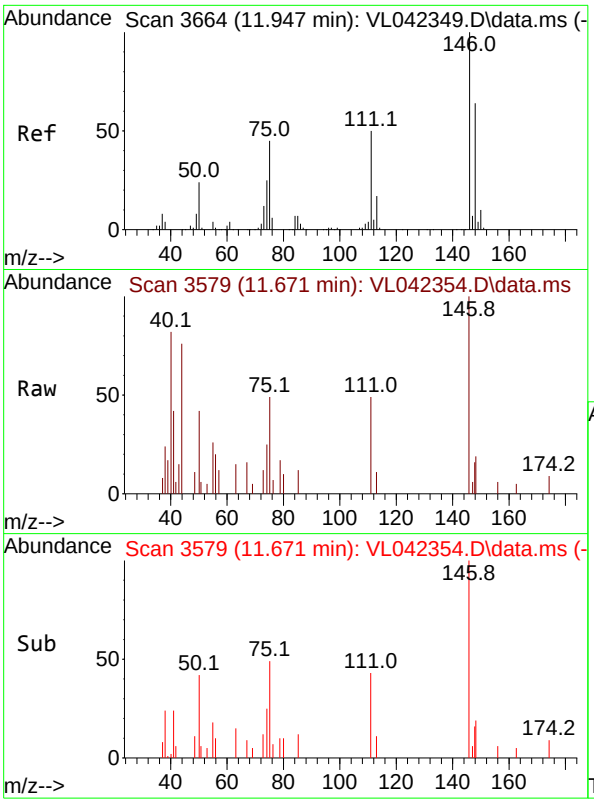


#76
1,4-Dichlorobenzene
Concen: 0.036 ppbv
RT: 11.671 min Scan# 3579
Delta R.T. -0.000 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Tgt Ion:146 Resp: 1180

Ion	Ratio	Lower	Upper
146	100		
111	45.4	24.2	72.6
148	68.3	32.1	96.5



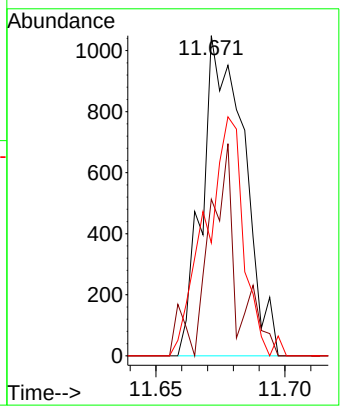


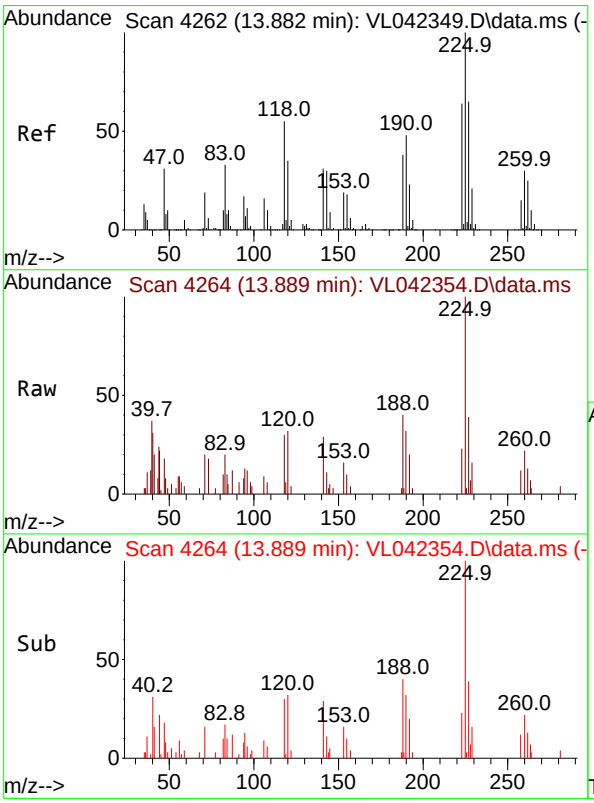
#77
1,2-Dichlorobenzene
Concen: 0.037 ppbv
RT: 11.671 min Scan# 3
Delta R.T. -0.275 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion:146 Resp: 1180

Ion	Ratio	Lower	Upper
146	100		
111	45.4	25.3	75.9
148	68.3	31.5	94.5

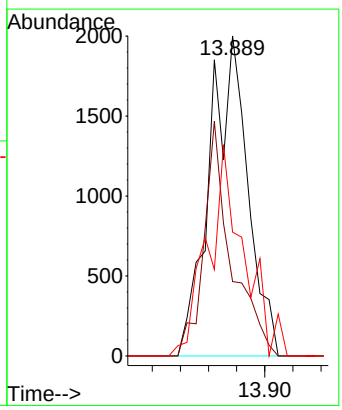


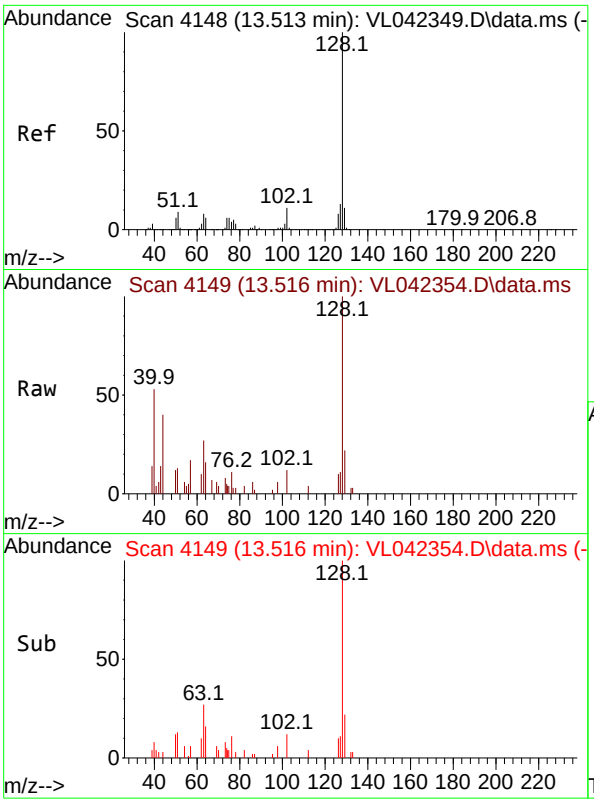


#78
Hexachloro-1,3-Butadiene
Concen: 0.058 ppbv
RT: 13.889 min Scan# 4264
Delta R.T. 0.006 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Tgt Ion:225 Resp: 1879

Ion	Ratio	Lower	Upper
225	100		
223	52.2	50.3	75.5
227	62.5	51.5	77.3



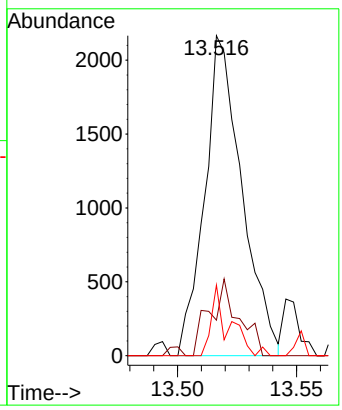


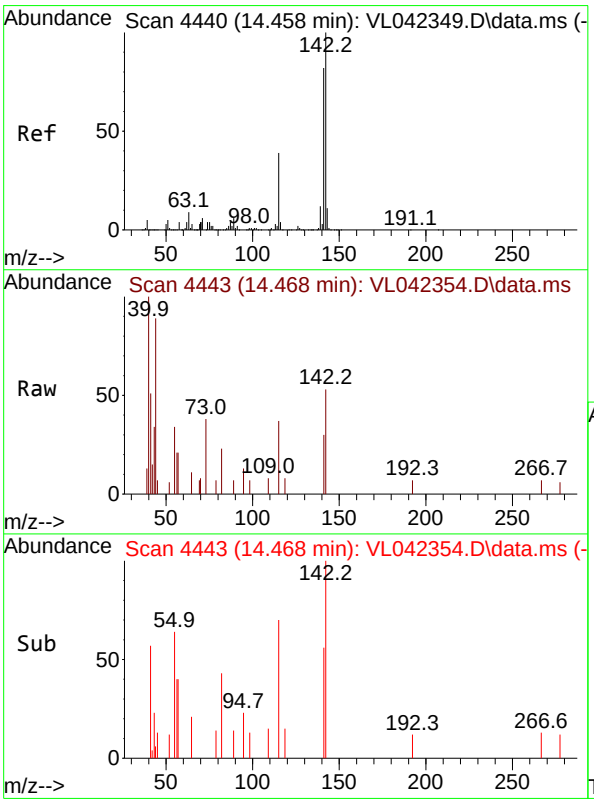
#79
Naphthalene
Concen: 0.031 ppbv
RT: 13.516 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion:128 Resp: 2354

Ion	Ratio	Lower	Upper
128	100		
127	11.1	10.6	15.8
129	22.1	8.6	12.8#

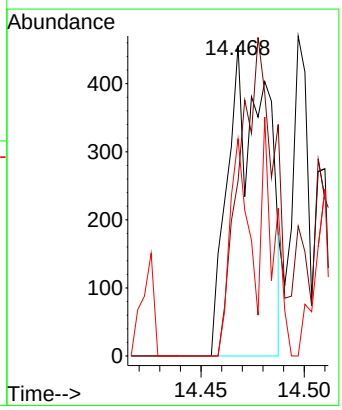


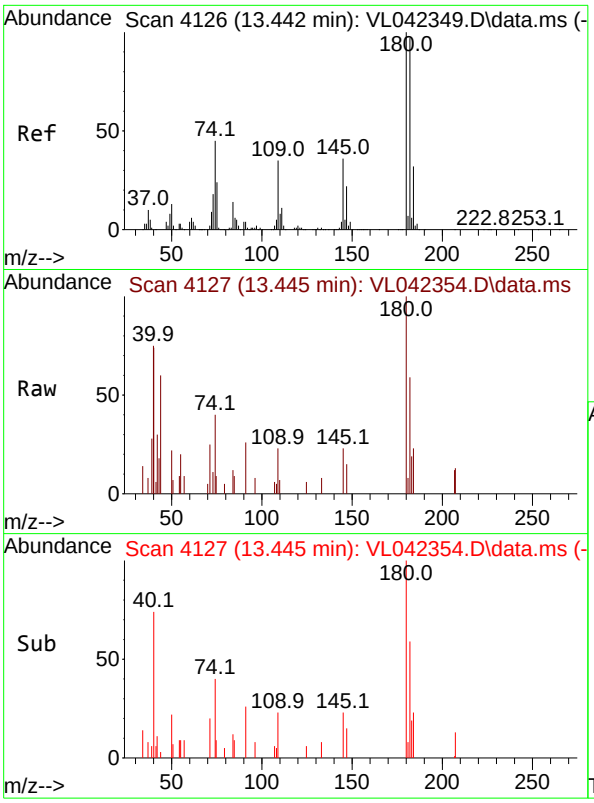


#80
Naphthalene,2-methyl-
Concen: 0.014 ppbv
RT: 14.468 min Scan# 4443
Delta R.T. 0.010 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Tgt Ion:142 Resp: 594

Ion	Ratio	Lower	Upper
142	100		
141	136.0	66.8	100.2#
115	59.1	33.4	50.2#



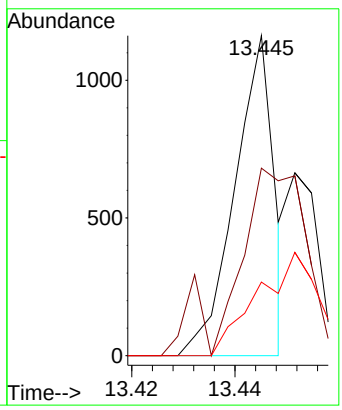


#81
1,2,4-Trichlorobenzene
Concen: 0.019 ppbv
RT: 13.445 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion:180 Resp: 614

Ion	Ratio	Lower	Upper
180	100		
182	116.4	76.8	115.2#
184	0.0	24.6	36.8#



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042355.D
Acq On : 17 Apr 2025 12:54
Operator : SY/MD
Sample : VSTDICC015
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Quant Time: Apr 18 01:31:10 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Apr 18 01:24:29 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.787	49	116071	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	332080	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.882	117	308463	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	254437	10.038	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 100.400%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	292784	14.277	ppbv	99
3) Chlorodifluoromethane	1.477	51	280042	14.341	ppbv	98
4) Chloromethane	1.532	50	115775	14.266	ppbv	99
5) Vinyl Chloride	1.580	62	112650	12.752	ppbv	100
6) Bromomethane	1.667	94	52805	13.800	ppbv	88
7) Chloroethane	1.703	64	44347	13.881	ppbv	98
8) Dichlorotetrafluoroethane	1.554	85	255029	14.484	ppbv	98
9) Propene	1.483	41	123102	13.842	ppbv	95
10) Heptane	4.979	43	336134	14.047	ppbv	100
11) Trichlorofluoromethane	1.875	101	278059	14.258	ppbv	99
12) 1,1,2-Trichlorotrifluo...	2.137	101	230366	14.447	ppbv	99
13) Ethanol	1.719	45	6324	8.702	ppbv	76
14) Bromoethene	1.781	108	84851	14.117	ppbv	99
15) Acetone	1.833	43	229086	12.056	ppbv	99
16) 1,3-Butadiene	1.609	39	117997	13.224	ppbv	96
17) tert-Butyl alcohol	2.040	59	320605	13.615	ppbv	99
18) 1,1-Dichloroethene	2.033	96	107666	14.045	ppbv	99
19) Isopropyl Alcohol	1.884	45	139004	13.169	ppbv	94
20) Methylene Chloride	2.059	84	91093	12.241	ppbv	90
21) Allyl Chloride	2.095	41	187995	14.329	ppbv	99
22) trans-1,2-Dichloroethene	2.341	96	118492	13.970	ppbv	94
23) Vinyl Acetate	2.460	43	106135	13.799	ppbv #	98
24) 1,1-Dichloroethane	2.409	63	235466	14.615	ppbv	99
25) Ethyl Acetate	2.836	43	663644	14.166	ppbv	100
26) Hexane	2.826	57	260975	13.765	ppbv	97
27) Carbon Disulfide	2.150	76	299098	14.734	ppbv	97
28) Methyl tert-Butyl Ether	2.438	73	174855	14.076	ppbv	95
29) Chloroform	2.849	83	385686	14.393	ppbv	99
30) Cyclohexane	3.855	84	217375	14.238	ppbv	98
31) cis-1,2-Dichloroethene	2.719	61	264972	14.700	ppbv	98
32) 1,1,1-Trichloroethane	3.367	97	412537	14.357	ppbv	99
34) 2-Butanone	2.558	43	367315	13.986	ppbv	100
35) Carbon Tetrachloride	3.762	117	409916	13.639	ppbv	94
36) Benzene	3.655	78	522156	14.578	ppbv	97
37) 1,2-Dichloroethane	3.218	62	319517	14.863	ppbv	100
38) Trichloroethene	4.548	130	208508	13.278	ppbv	98
39) 1,2-Dichloropropane	4.312	63	189697	14.201	ppbv	97
40) 1,4-Dioxane	4.580	88	92114	12.733	ppbv #	95
41) Tetrahydrofuran	3.053	42	214949	14.166	ppbv	98
42) Bromodichloromethane	4.490	83	442735	14.798	ppbv	95
43) Methyl Methacrylate	4.878	69	219757	13.670	ppbv	95
44) 2,2,4-Trimethylpentane	4.642	57	893529	14.425	ppbv	99
45) t-1,3-Dichloropropene	6.412	75	244470	14.810	ppbv	94

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042355.D
Acq On : 17 Apr 2025 12:54
Operator : SY/MD
Sample : VSTDICC015
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Quant Time: Apr 18 01:31:10 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Apr 18 01:24:29 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) cis-1,3-Dichloropropene	5.600	75	300145	14.878	ppbv		90
47) 1,1,2-Trichloroethane	6.581	97	198874	14.615	ppbv		98
48) Dibromochloromethane	7.390	129	362887	15.105	ppbv		98
49) Bromoform	9.484	173	312282	14.865	ppbv		99
50) 4-Methyl-2-Pentanone	5.749	43	563658	12.889	ppbv		99
51) 2-Hexanone	7.435	43	467001	11.834	ppbv	#	98
52) Tetrachloroethene	8.225	164	180631	13.046	ppbv		97
53) Toluene	6.933	91	619420	14.411	ppbv		99
54) 1,2-Dibromoethane	7.652	107	280071	14.442	ppbv		92
56) 1,1,1,2-Tetrachloroethane	8.927	131	268626	14.389	ppbv		97
57) Chlorobenzene	8.921	112	454017	14.151	ppbv		97
58) Ethyl Benzene	9.354	91	874424	14.308	ppbv		100
59) m/p-Xylene	9.552	91	645250	13.067	ppbv	#	21
60) o-Xylene	9.963	91	689246	13.902	ppbv		99
61) Styrene	9.872	104	339508	14.347	ppbv		99
62) Isopropylbenzene	10.539	105	1018968	13.999	ppbv		100
63) 1,1,2,2-Tetrachloroethane	9.963	83	412898	12.816	ppbv		100
64) n-propylbenzene	10.989	120	260812	14.255	ppbv		94
65) tert-Butylbenzene	11.533	119	899720	13.449	ppbv		93
66) Benzyl Chloride	11.617	91	96016	13.061	ppbv		96
67) sec-Butylbenzene	11.769	105	1253263	13.468	ppbv		100
69) p-Isopropyltoluene	11.928	119	1081850	13.382	ppbv		99
70) n-Butylbenzene	12.284	91	1117042	13.266	ppbv		100
71) 2-Chlorotoluene	10.902	91	806728	14.131	ppbv		100
72) 4-Ethyltoluene	11.125	105	848077	13.992	ppbv		99
73) 1,3,5-Trimethylbenzene	11.206	105	726558	13.578	ppbv		99
74) 1,2,4-Trimethylbenzene	11.539	105	785772	12.572	ppbv		97
75) 1,3-Dichlorobenzene	11.610	146	444086	13.670	ppbv		99
76) 1,4-Dichlorobenzene	11.672	146	450662	13.802	ppbv		98
77) 1,2-Dichlorobenzene	11.947	146	427372	13.529	ppbv		99
78) Hexachloro-1,3-Butadiene	13.883	225	404441	12.679	ppbv		100
79) Naphthalene	13.514	128	944085	12.632	ppbv		98
80) Naphthalene,2-methyl-	14.459	142	540339	12.686	ppbv		99
81) 1,2,4-Trichlorobenzene	13.442	180	429982	13.398	ppbv		98

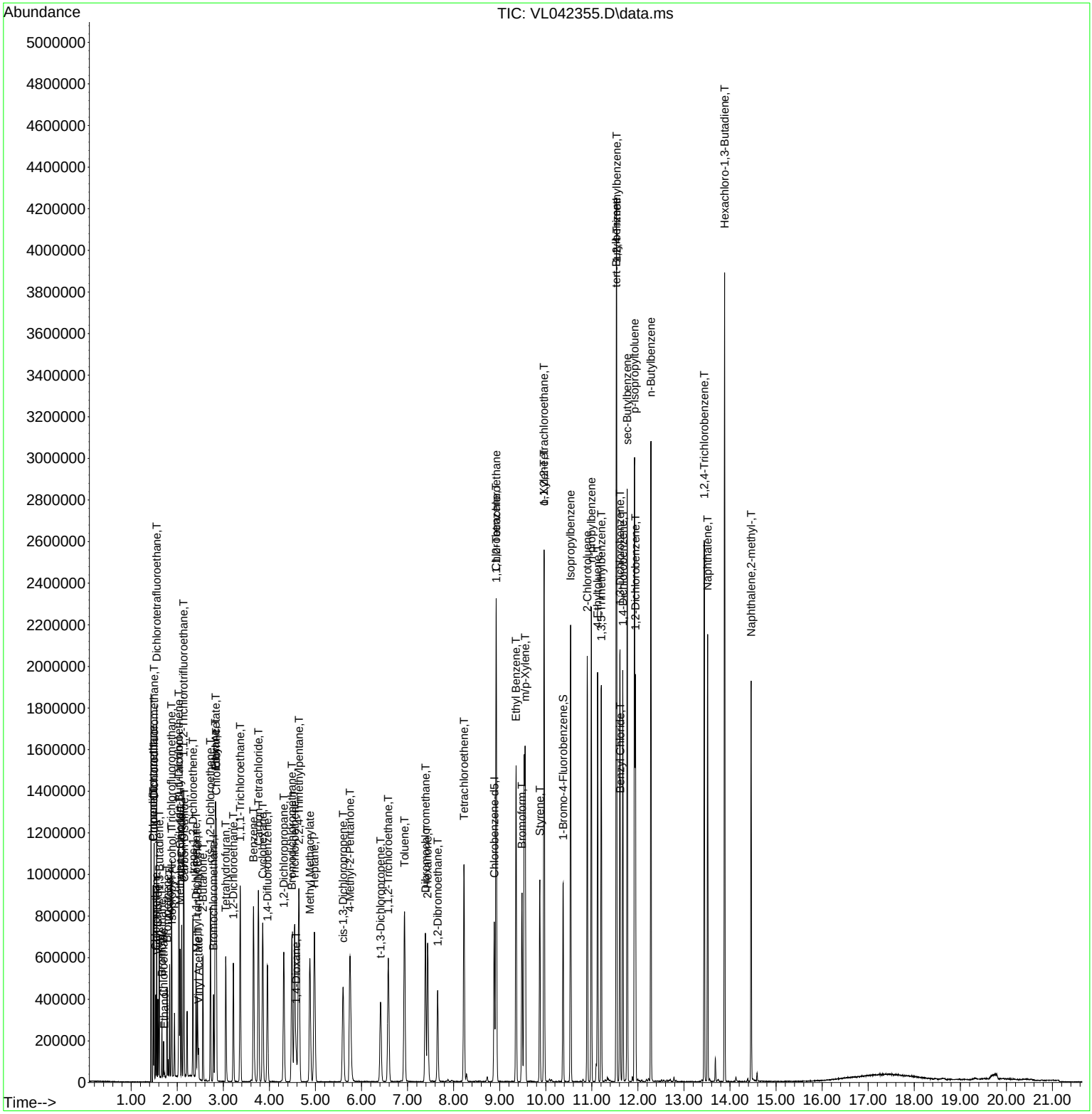
(#) = qualifier out of range (m) = manual integration (+) = signals summed

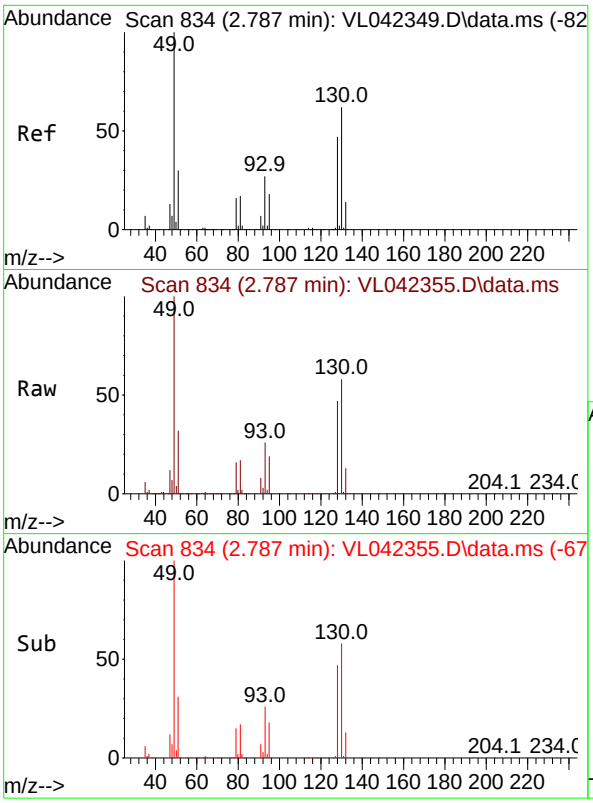
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042355.D
Acq On : 17 Apr 2025 12:54
Operator : SY/MD
Sample : VSTDICC015
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Quant Time: Apr 18 01:31:10 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Apr 18 01:24:29 2025
Response via : Initial Calibration



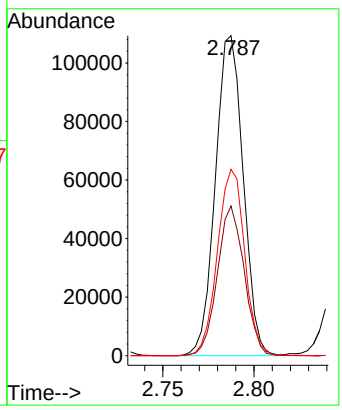


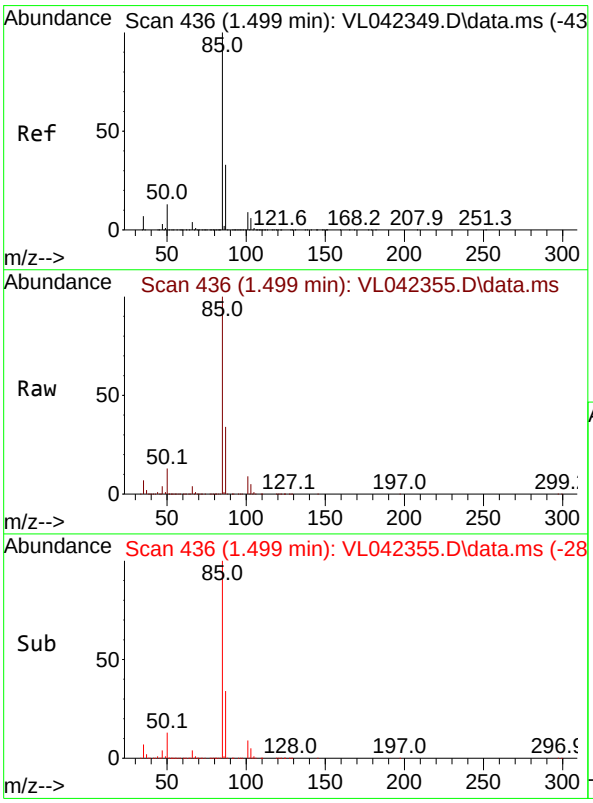
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 8
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 49 Resp: 116071

Ion	Ratio	Lower	Upper
49	100		
128	45.1	22.8	68.4
130	57.1	29.3	88.0

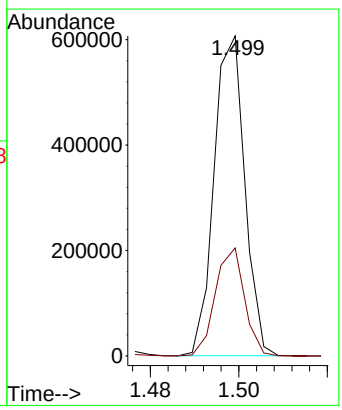


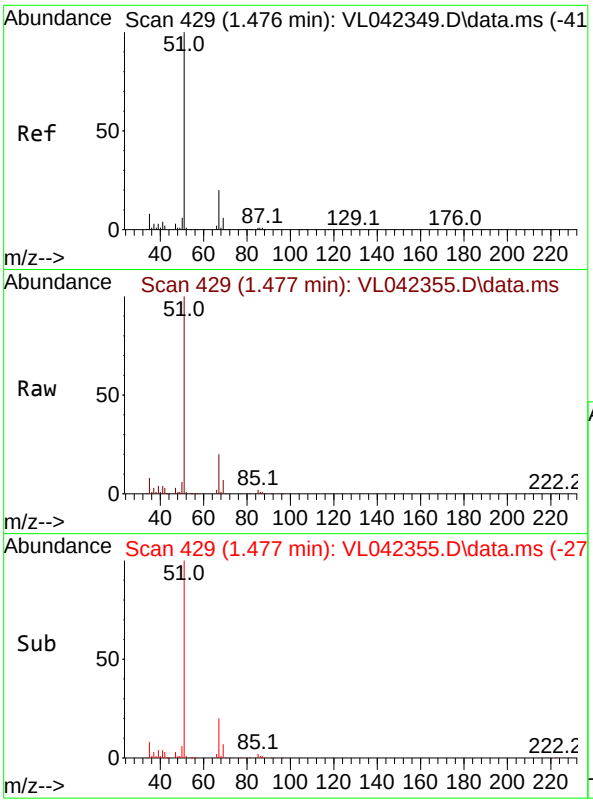


#2
Dichlorodifluoromethane
Concen: 14.277 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 85 Resp: 292784

Ion	Ratio	Lower	Upper
85	100		
87	33.8	26.6	39.8



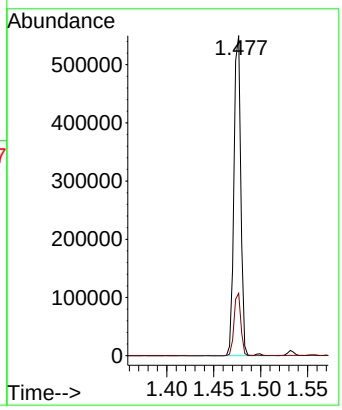


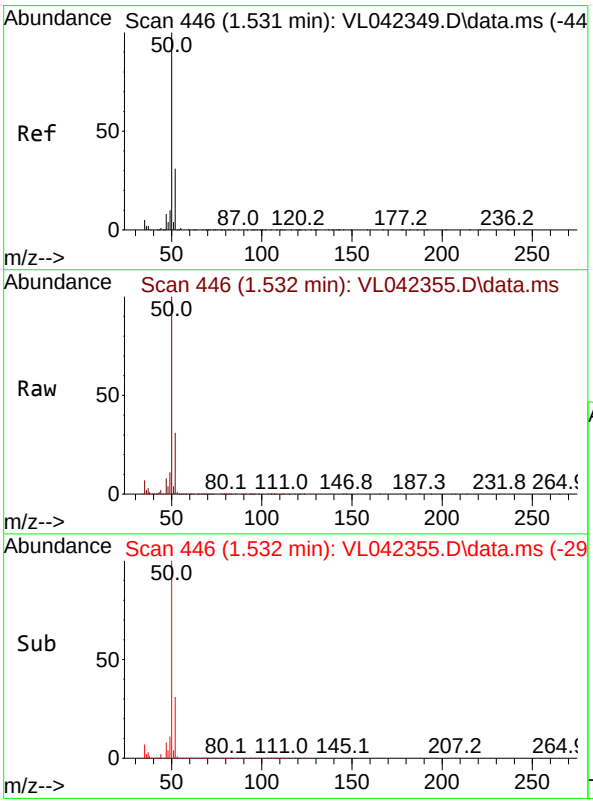
#3
Chlorodifluoromethane
Concen: 14.341 ppbv
RT: 1.477 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 51 Resp: 280042

Ion	Ratio	Lower	Upper
51	100		
67	19.5	16.2	24.4

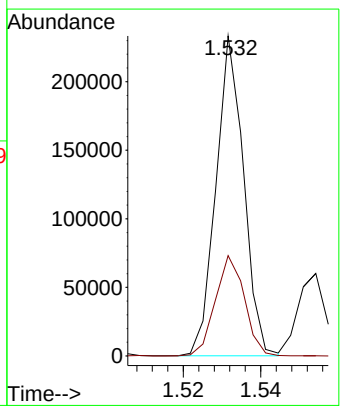


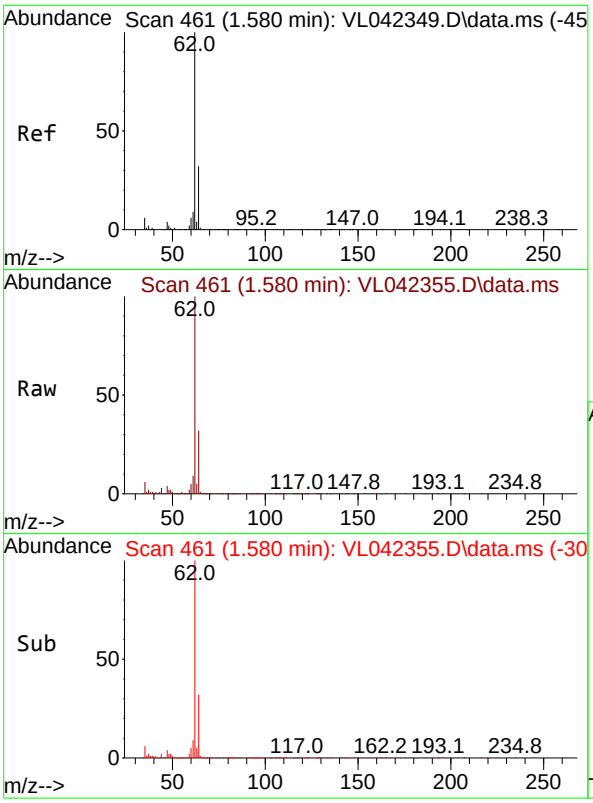


#4
Chloromethane
Concen: 14.266 ppbv
RT: 1.532 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 50 Resp: 115775

Ion	Ratio	Lower	Upper
50	100		
52	31.3	24.7	37.1



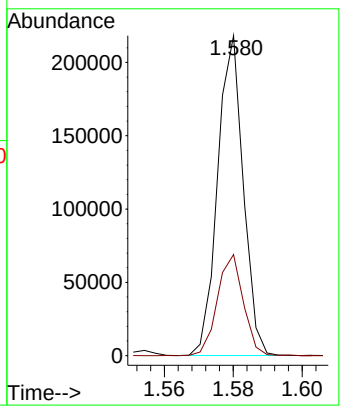


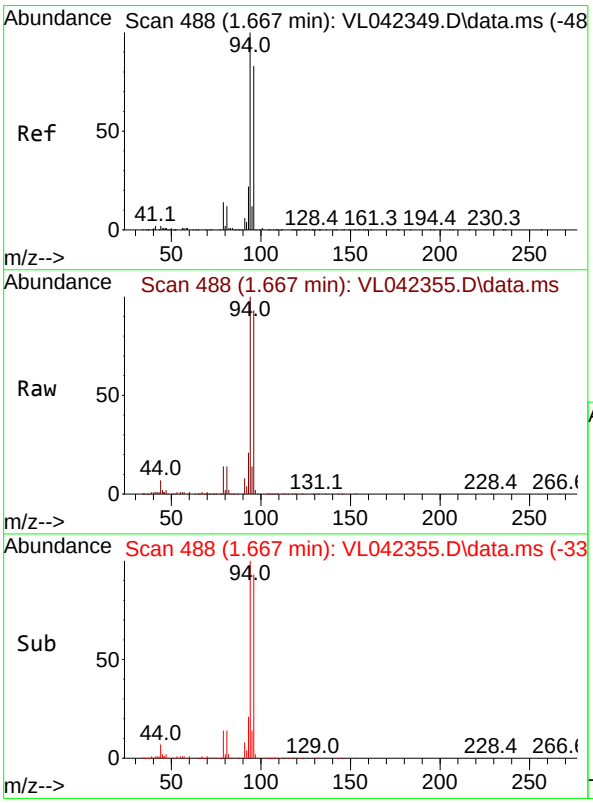
#5
Vinyl Chloride
Concen: 12.752 ppbv
RT: 1.580 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 62 Resp: 112650

Ion	Ratio	Lower	Upper
62	100		
64	31.6	25.4	38.0

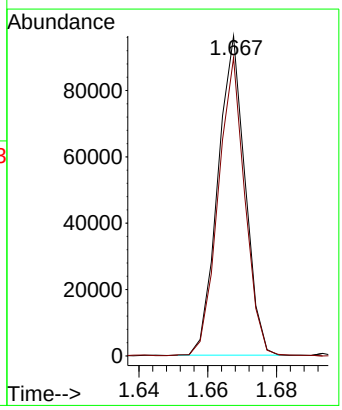


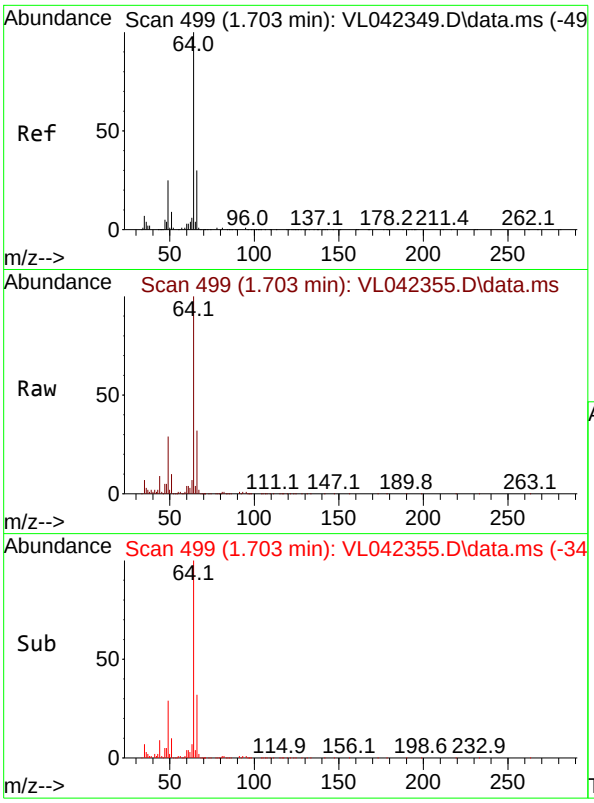


#6
Bromomethane
Concen: 13.800 ppbv
RT: 1.667 min Scan# 488
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 94 Resp: 52805

Ion	Ratio	Lower	Upper
94	100		
96	93.1	66.2	99.2



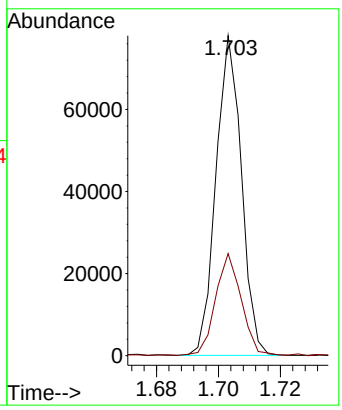


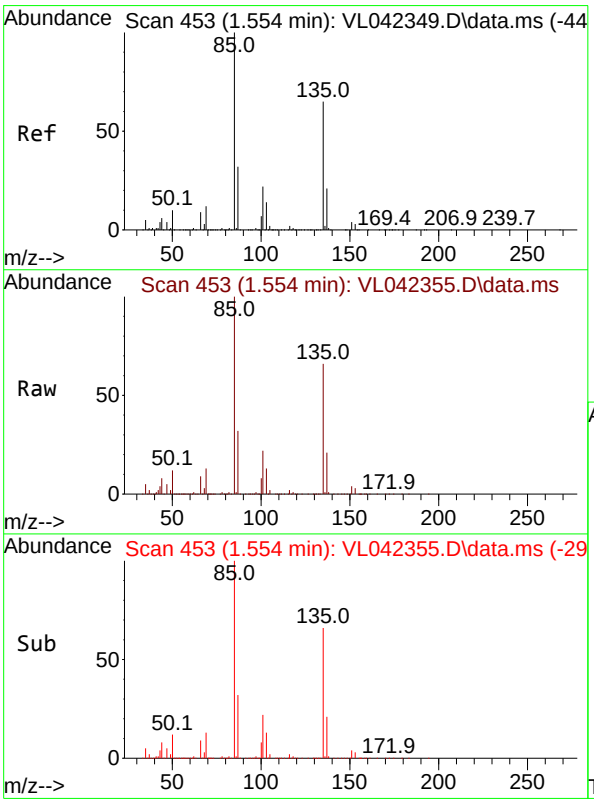
#7
Chloroethane
Concen: 13.881 ppbv
RT: 1.703 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 64 Resp: 44347

Ion	Ratio	Lower	Upper
64	100		
66	31.9	24.6	37.0

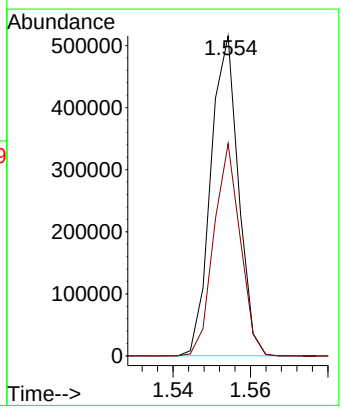


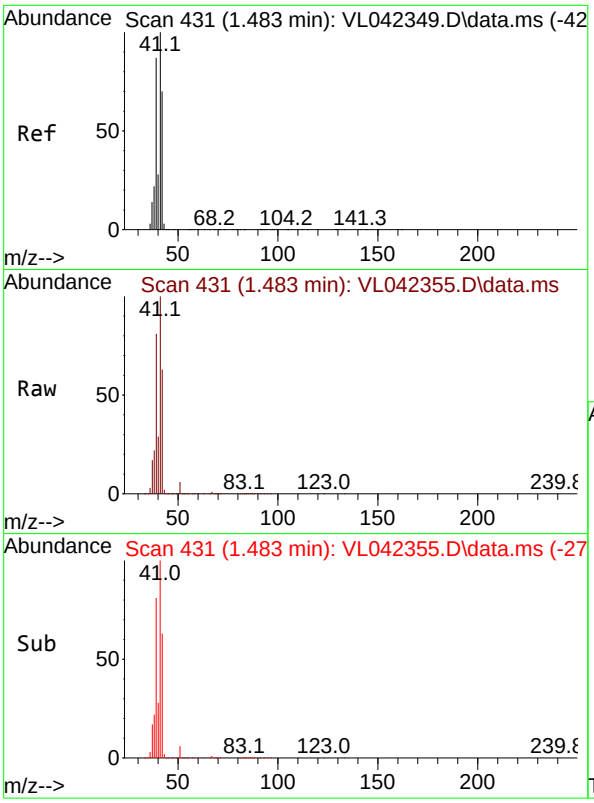


#8
Dichlorotetrafluoroethane
Concen: 14.484 ppbv
RT: 1.554 min Scan# 453
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 85 Resp: 255029

Ion	Ratio	Lower	Upper
85	100		
135	63.6	52.2	78.2



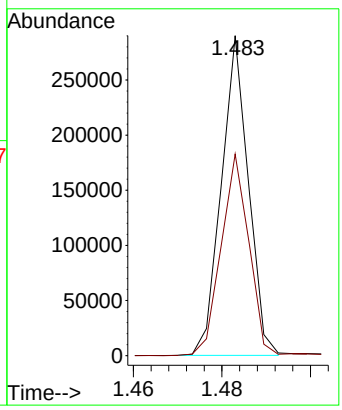


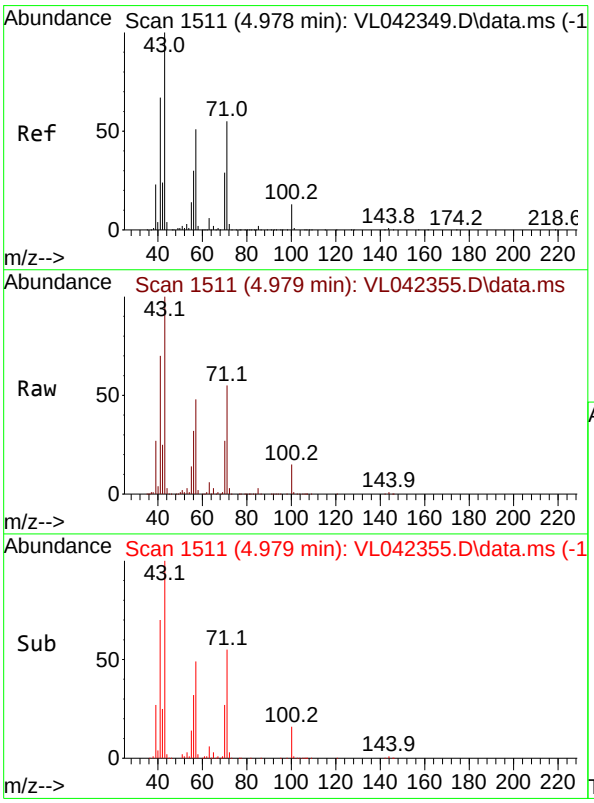
#9
Propene
Concen: 13.842 ppbv
RT: 1.483 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 41 Resp: 123102

Ion	Ratio	Lower	Upper
41	100		
42	66.0	56.2	84.4

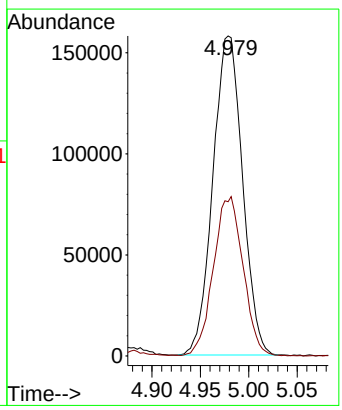


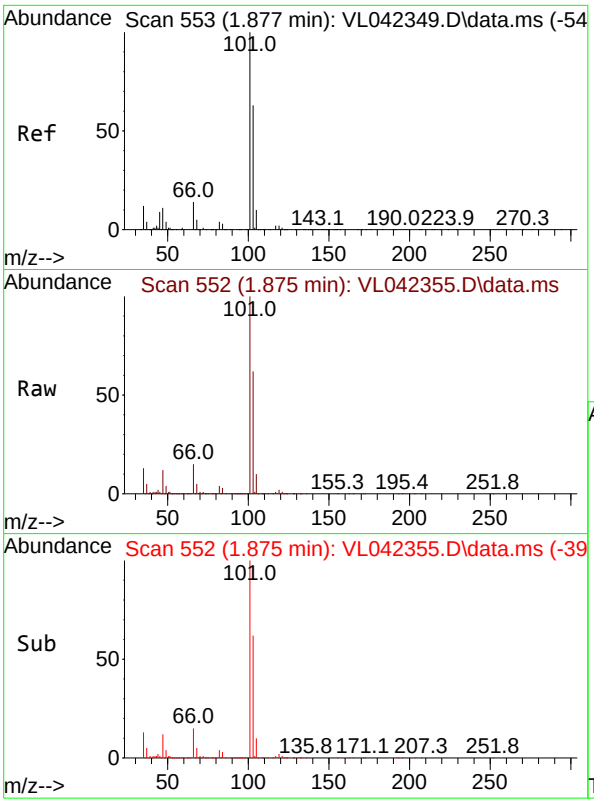


#10
Heptane
Concen: 14.047 ppbv
RT: 4.979 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 43 Resp: 336134

Ion	Ratio	Lower	Upper
43	100		
57	50.0	39.9	59.9



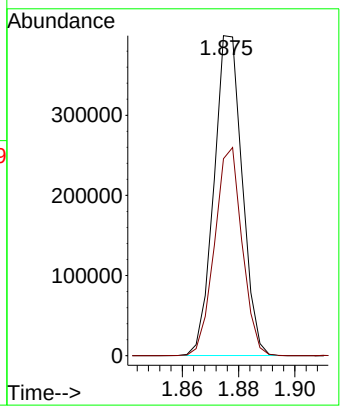


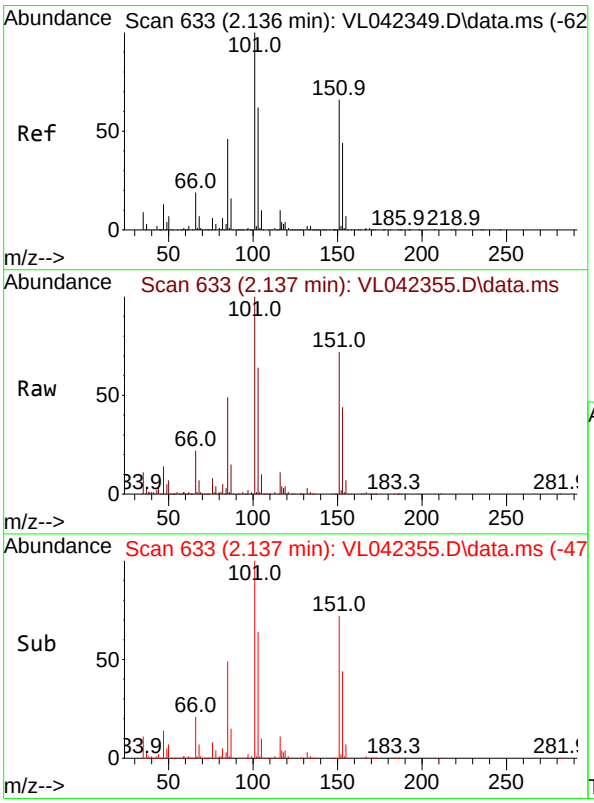
#11
Trichlorofluoromethane
Concen: 14.258 ppbv
RT: 1.875 min Scan# 5
Delta R.T. -0.003 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion:101 Resp: 278059

Ion	Ratio	Lower	Upper
101	100		
103	61.6	50.1	75.1

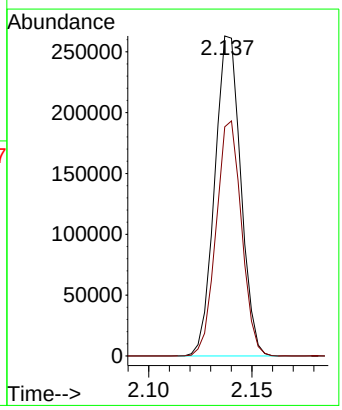


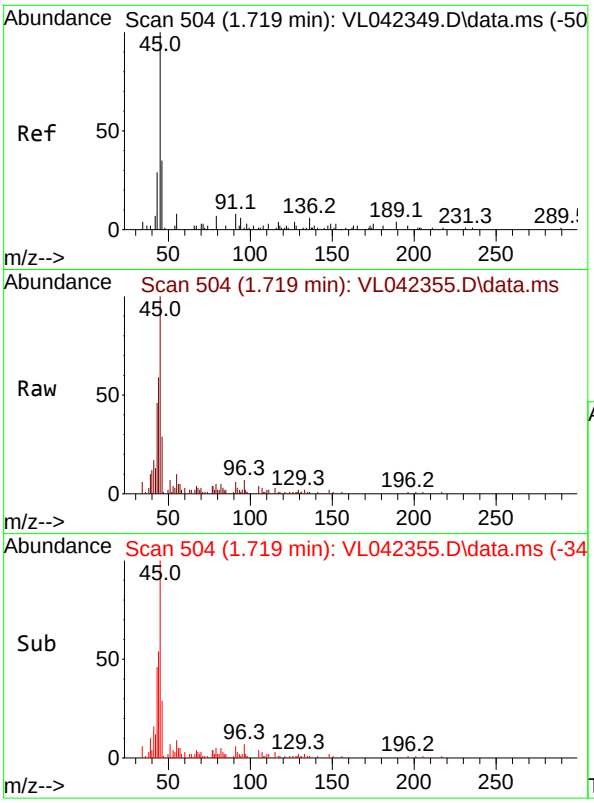


#12
1,1,2-Trichlorotrifluoroethane
Concen: 14.447 ppbv
RT: 2.137 min Scan# 633
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion:101 Resp: 230366

Ion	Ratio	Lower	Upper
101	100		
151	71.8	57.0	85.6



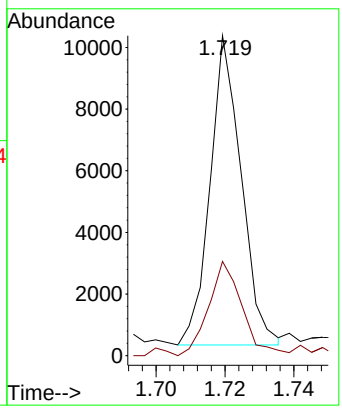


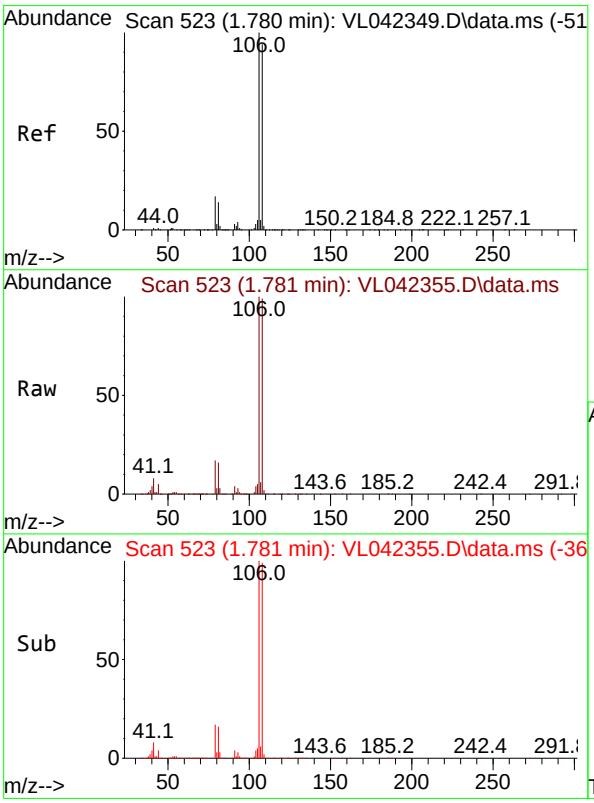
#13
Ethanol
Concen: 8.702 ppbv
RT: 1.719 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 45 Resp: 6324

Ion	Ratio	Lower	Upper
45	100		
46	37.6	21.9	87.7

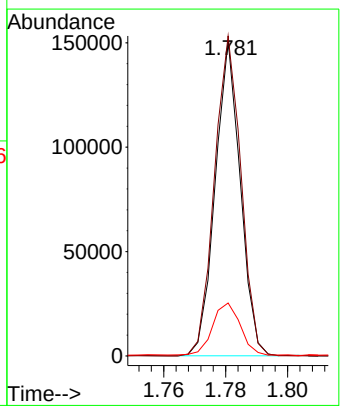


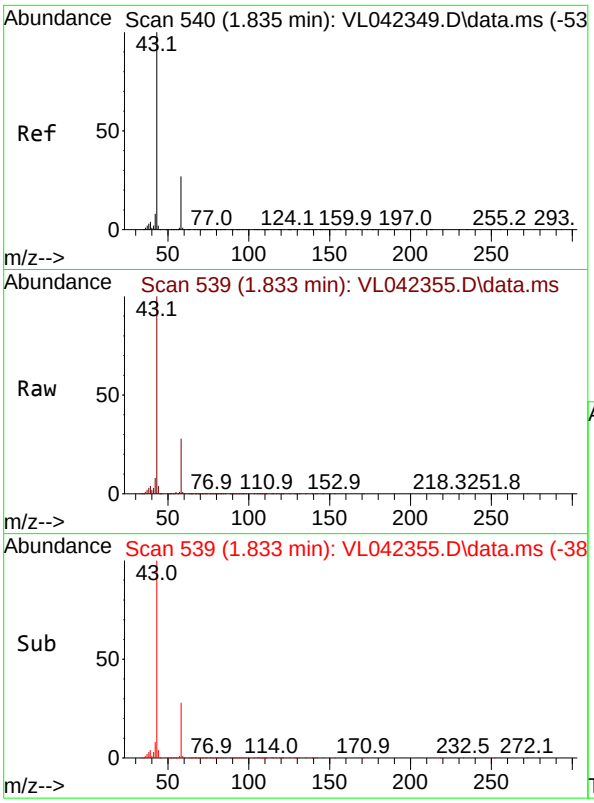


#14
Bromoethene
Concen: 14.117 ppbv
RT: 1.781 min Scan# 523
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion:108 Resp: 84851

Ion	Ratio	Lower	Upper
108	100		
106	107.5	85.9	128.9
79	19.3	13.9	20.9



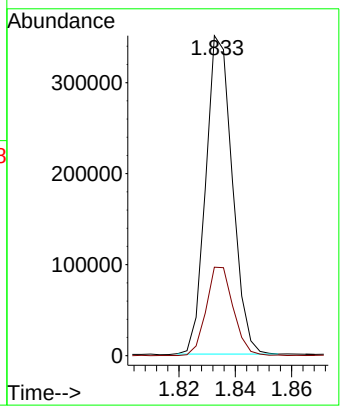


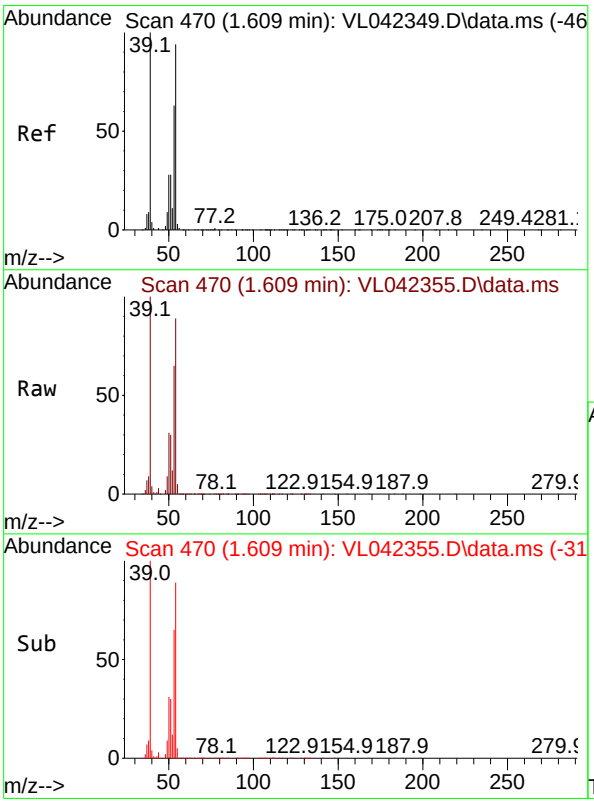
#15
Acetone
Concen: 12.056 ppbv
RT: 1.833 min Scan# 5
Delta R.T. -0.003 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 43 Resp: 229086

Ion	Ratio	Lower	Upper
43	100		
58	28.4	22.4	33.6

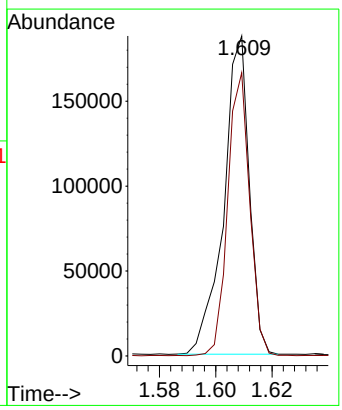


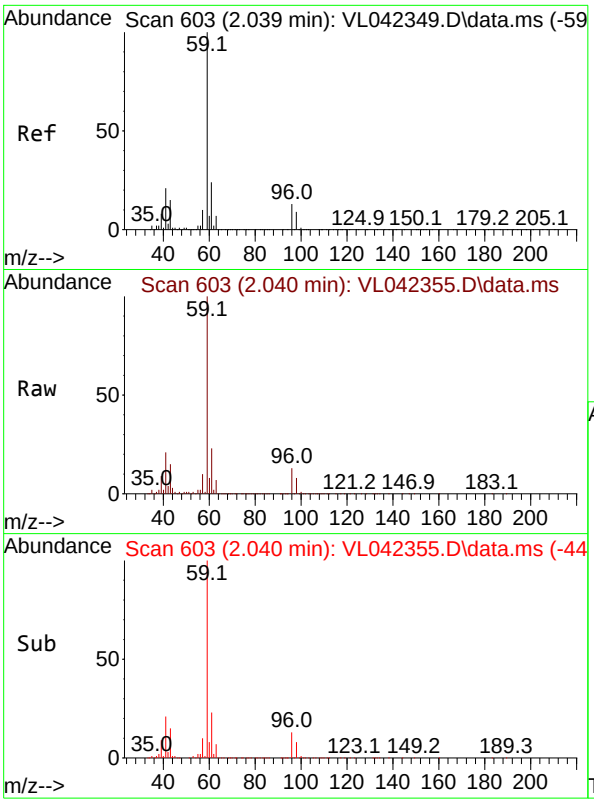


#16
1,3-Butadiene
Concen: 13.224 ppbv
RT: 1.609 min Scan# 470
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 39 Resp: 117997

Ion	Ratio	Lower	Upper
39	100		
54	77.2	64.9	97.3



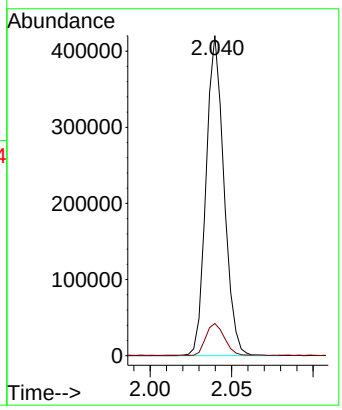


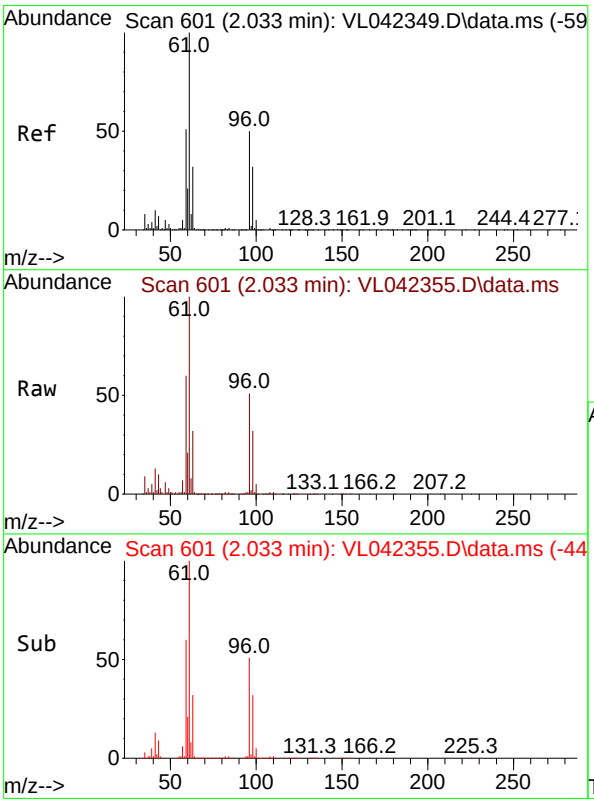
#17
tert-Butyl alcohol
Concen: 13.615 ppbv
RT: 2.040 min Scan# 6
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 59 Resp: 320605

Ion	Ratio	Lower	Upper
59	100		
57	10.6	8.7	13.1

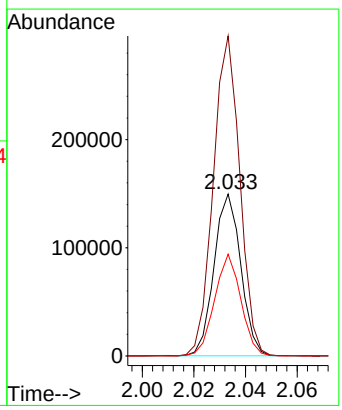


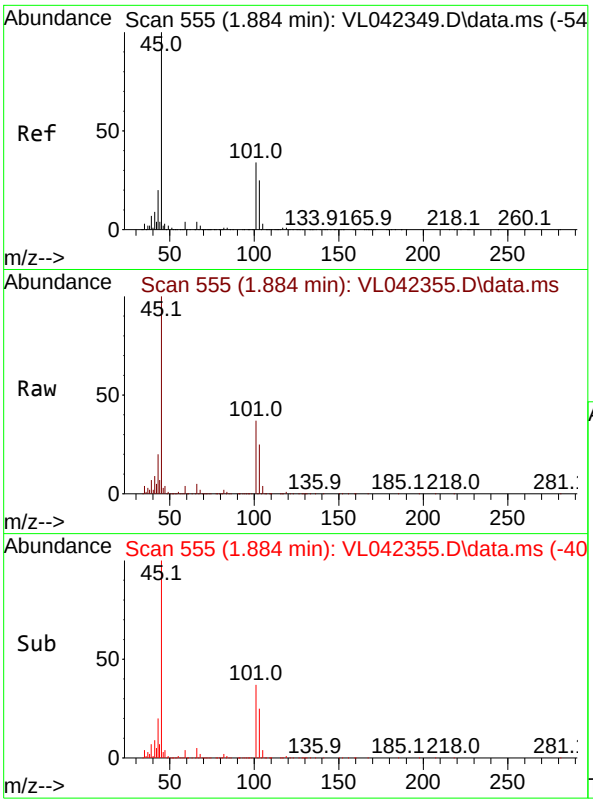


#18
1,1-Dichloroethene
Concen: 14.045 ppbv
RT: 2.033 min Scan# 601
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 96 Resp: 107666

Ion	Ratio	Lower	Upper
96	100		
61	197.8	160.2	240.2
98	62.9	51.0	76.4



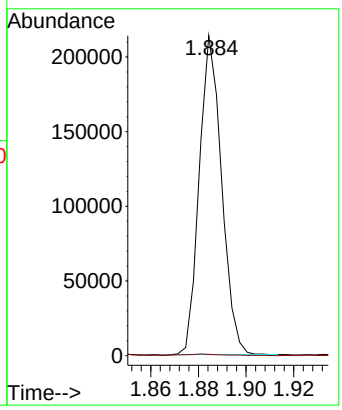


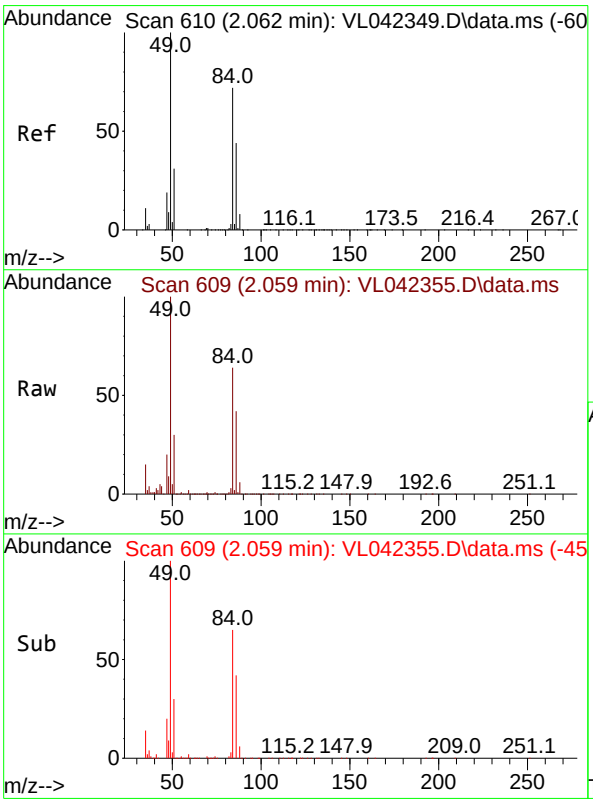
#19
Isopropyl Alcohol
Concen: 13.169 ppbv
RT: 1.884 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 45 Resp: 139004

Ion	Ratio	Lower	Upper
45	100		
58	46.9	34.5	51.7

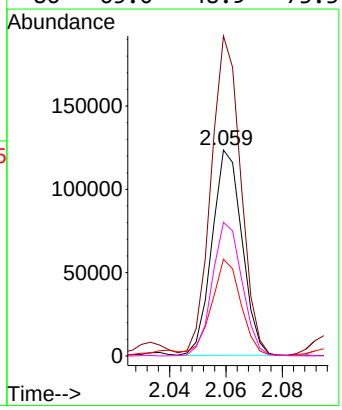


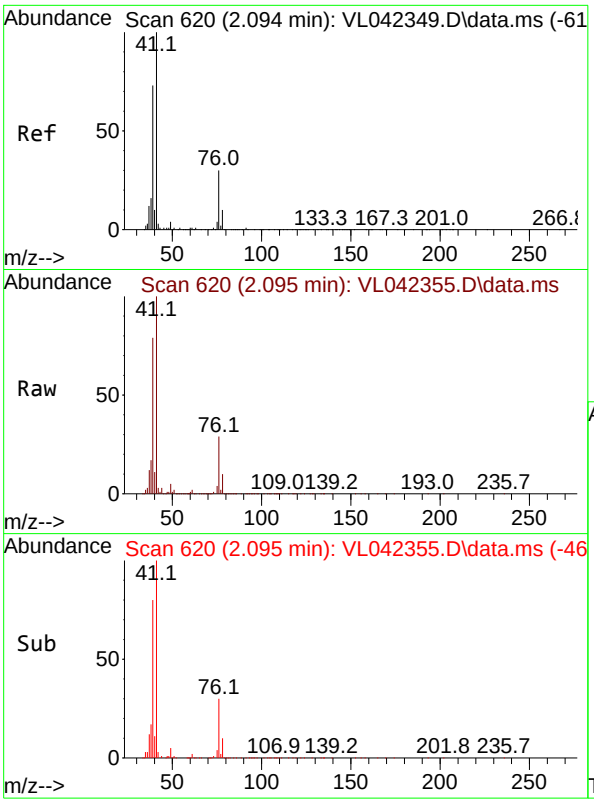


#20
Methylene Chloride
Concen: 12.241 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.003 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 84 Resp: 91093

Ion	Ratio	Lower	Upper
84	100		
49	155.7	111.6	167.4
51	46.8	35.1	52.7
86	65.0	48.9	73.3



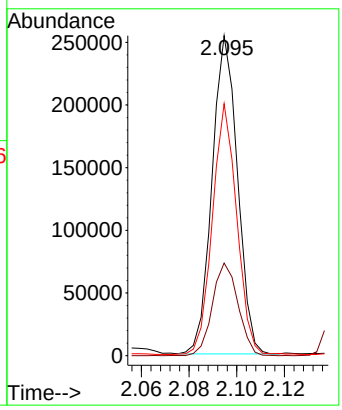


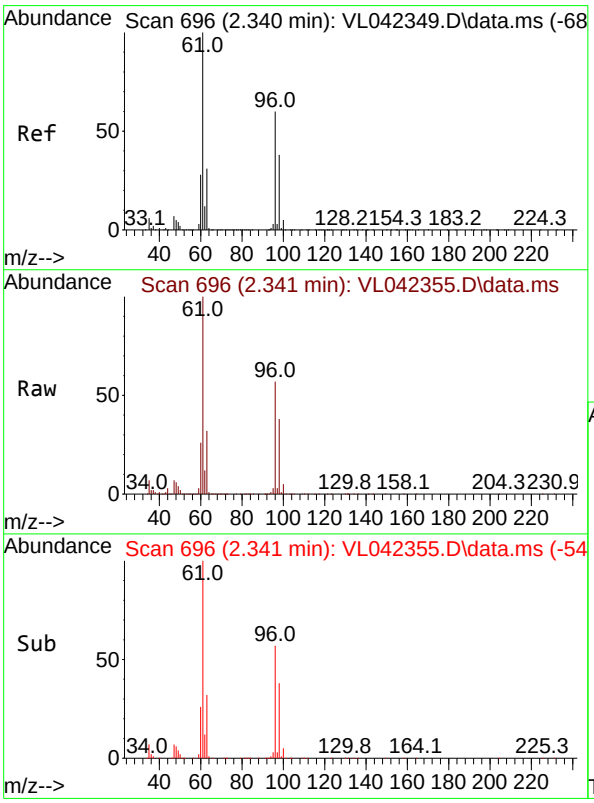
#21
Allyl Chloride
Concen: 14.329 ppbv
RT: 2.095 min Scan# 6
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 41 Resp: 187995

Ion	Ratio	Lower	Upper
41	100		
76	29.3	24.8	37.2
39	75.2	60.6	90.8

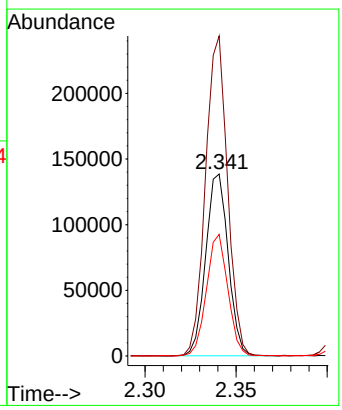


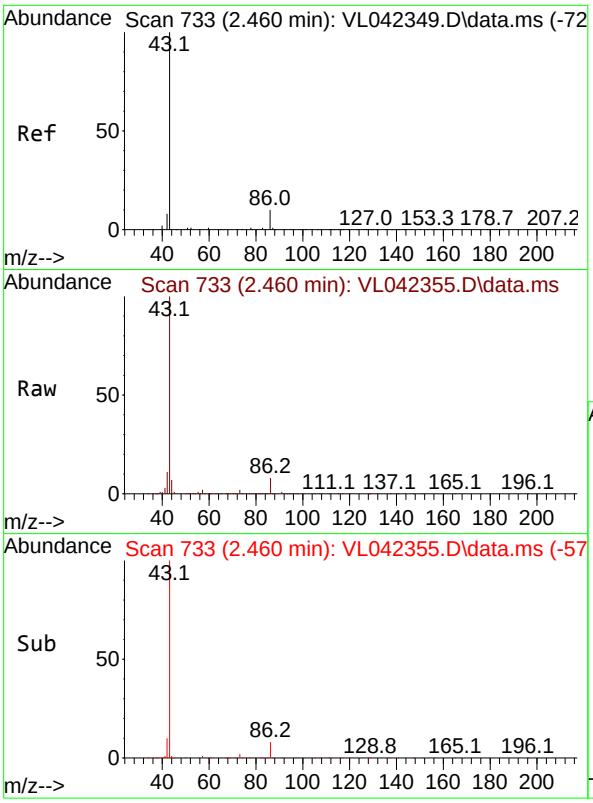


#22
trans-1,2-Dichloroethene
Concen: 13.970 ppbv
RT: 2.341 min Scan# 696
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 96 Resp: 118492

Ion	Ratio	Lower	Upper
96	100		
61	176.1	133.7	200.5
98	66.8	50.3	75.5



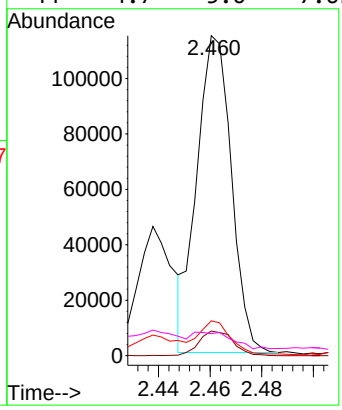


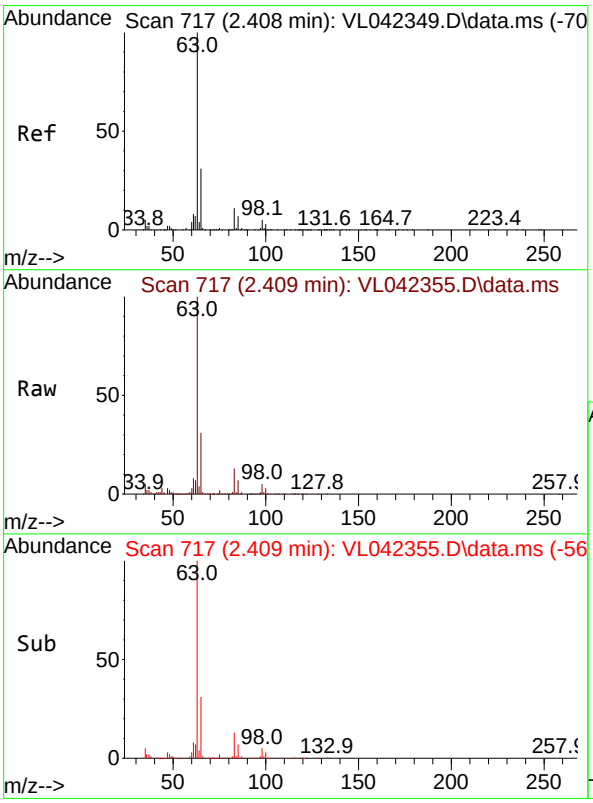
#23
Vinyl Acetate
Concen: 13.799 ppbv
RT: 2.460 min Scan# 7
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 43 Resp: 106135

Ion	Ratio	Lower	Upper
43	100		
86	7.8	6.5	9.7
42	10.4	7.8	11.8
44	4.7	5.0	7.6#

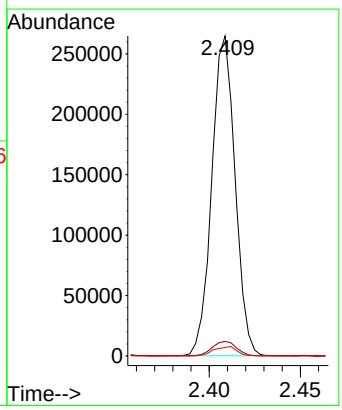


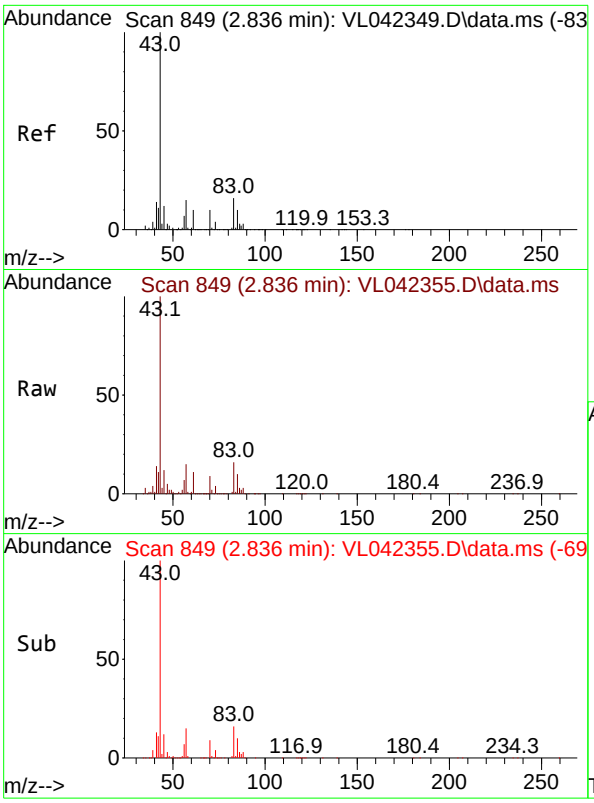


#24
1,1-Dichloroethane
Concen: 14.615 ppbv
RT: 2.409 min Scan# 717
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 63 Resp: 235466

Ion	Ratio	Lower	Upper
63	100		
98	4.5	2.3	6.8
100	2.6	1.6	4.8



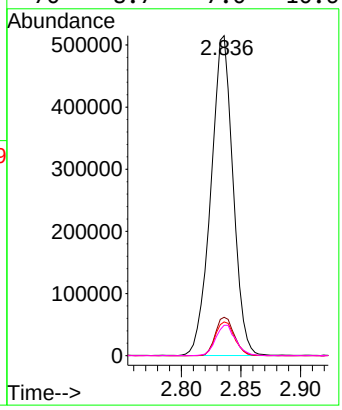


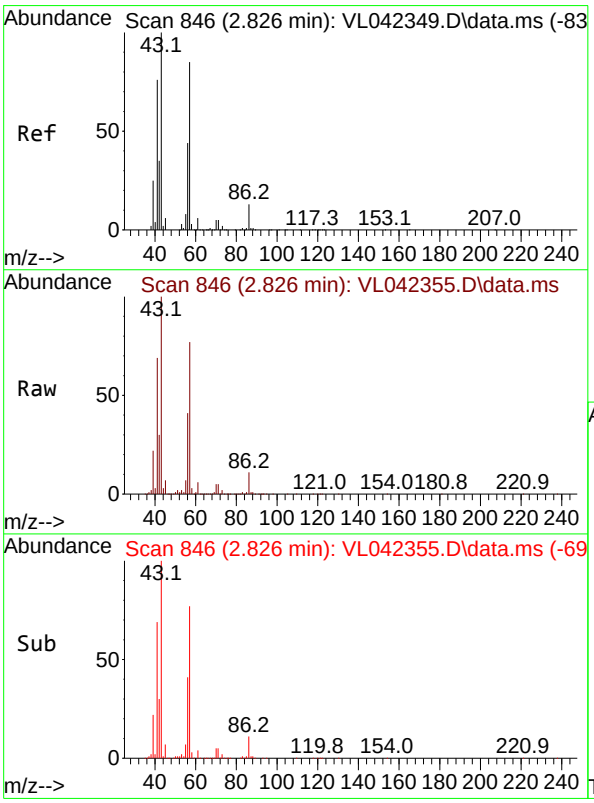
#25
Ethyl Acetate
Concen: 14.166 ppbv
RT: 2.836 min Scan# 84
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 43 Resp: 663644

Ion	Ratio	Lower	Upper
43	100		
45	10.4	8.3	12.5
61	9.2	7.3	10.9
70	8.7	7.0	10.6

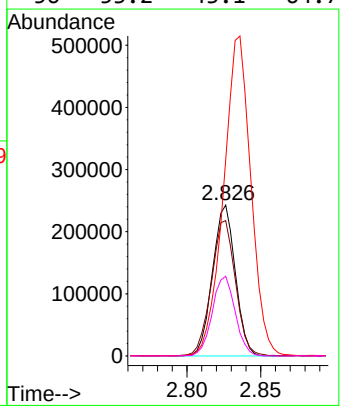


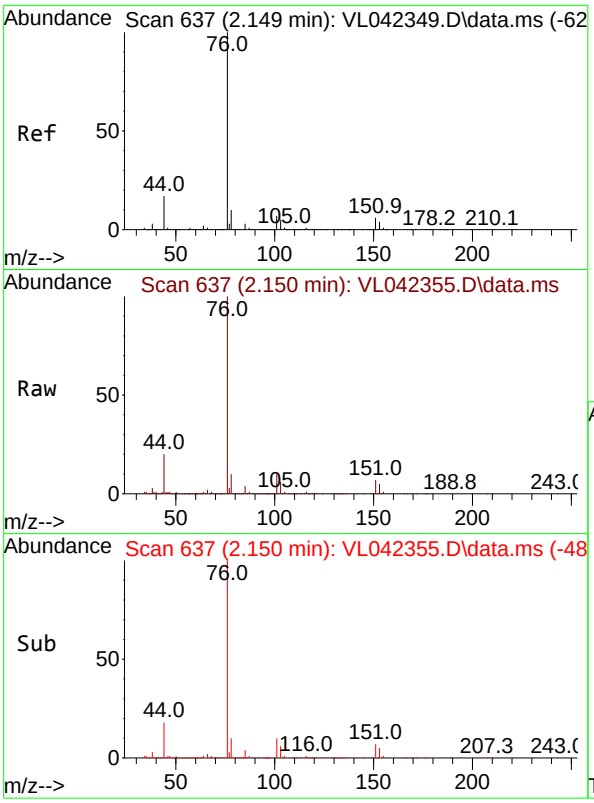


#26
Hexane
Concen: 13.765 ppbv
RT: 2.826 min Scan# 846
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 57 Resp: 260975

Ion	Ratio	Lower	Upper
57	100		
41	95.3	77.9	116.9
43	254.5	208.4	312.6
56	53.2	43.1	64.7



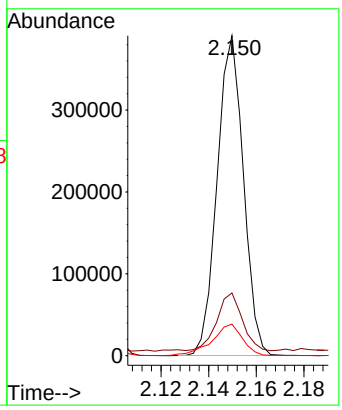


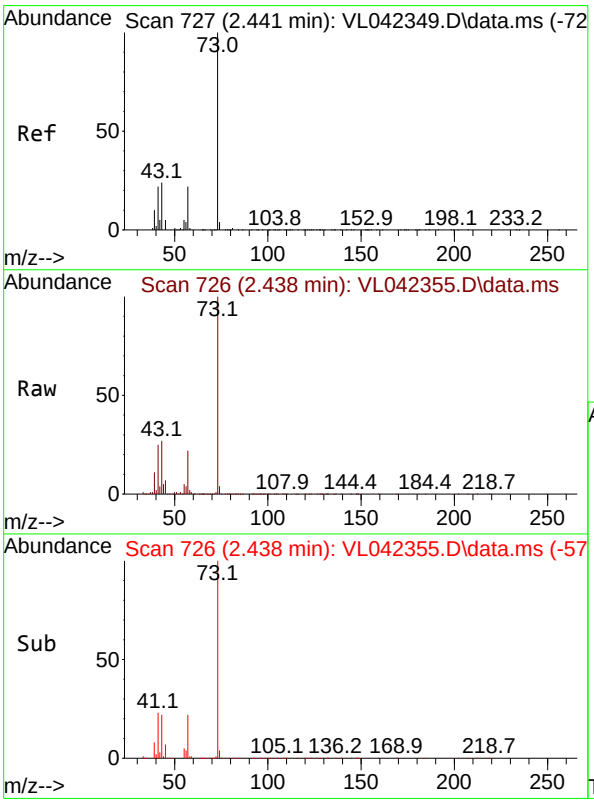
#27
Carbon Disulfide
Concen: 14.734 ppbv
RT: 2.150 min Scan# 6
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 76 Resp: 299098

Ion	Ratio	Lower	Upper
76	100		
44	17.3	15.5	23.3
78	11.4	9.3	13.9

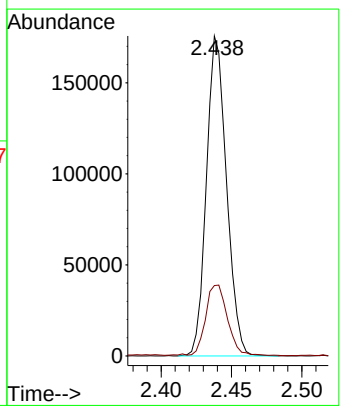


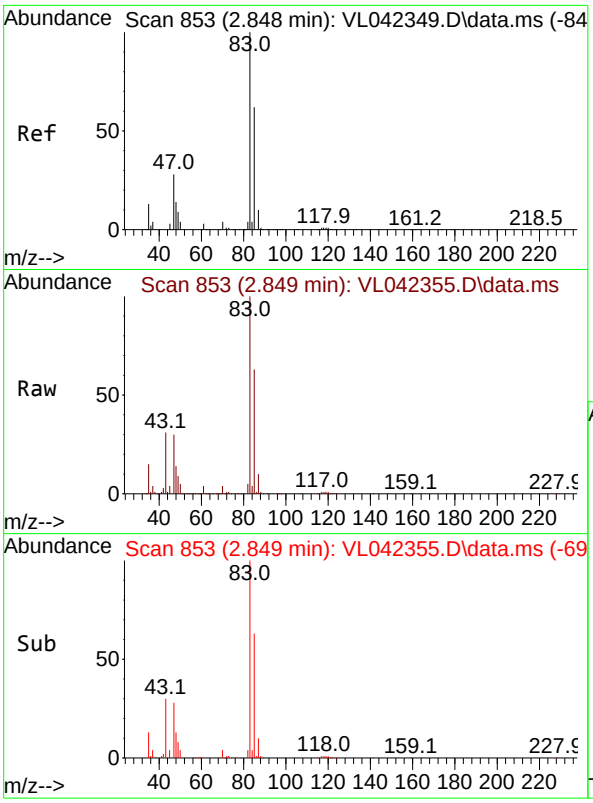


#28
Methyl tert-Butyl Ether
Concen: 14.076 ppbv
RT: 2.438 min Scan# 726
Delta R.T. -0.003 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 73 Resp: 174855

Ion	Ratio	Lower	Upper
73	100		
57	24.3	21.3	31.9



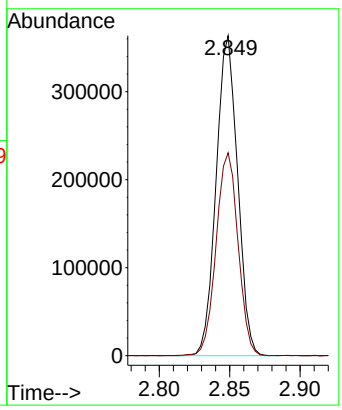


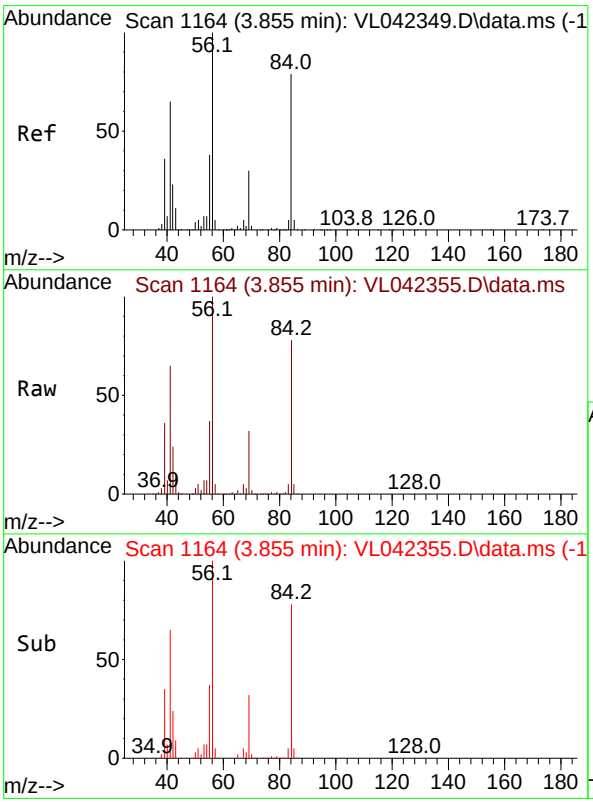
#29
Chloroform
Concen: 14.393 ppbv
RT: 2.849 min Scan# 8
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 83 Resp: 385686

Ion	Ratio	Lower	Upper
83	100		
85	63.4	50.0	75.0

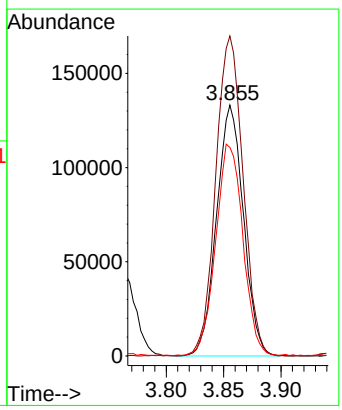


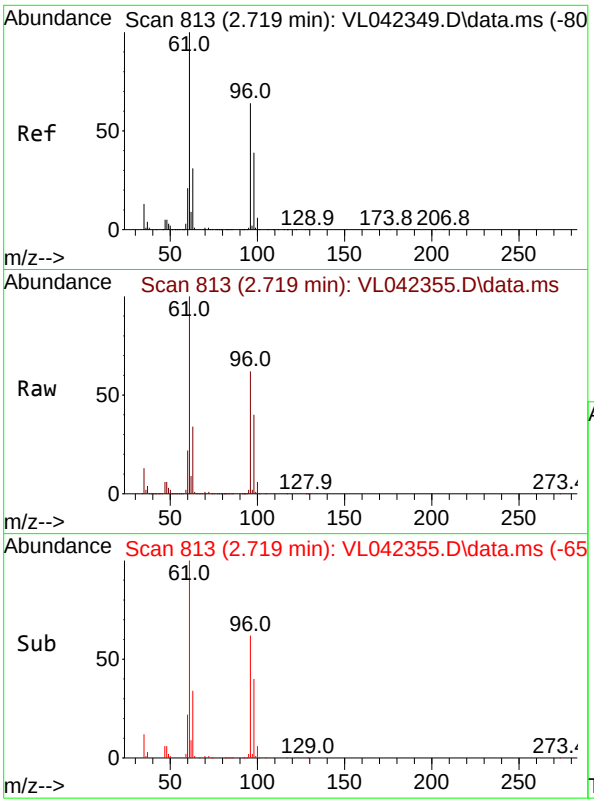


#30
Cyclohexane
Concen: 14.238 ppbv
RT: 3.855 min Scan# 1164
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 84 Resp: 217375

Ion	Ratio	Lower	Upper
84	100		
56	129.4	101.0	151.4
41	85.3	67.4	101.0



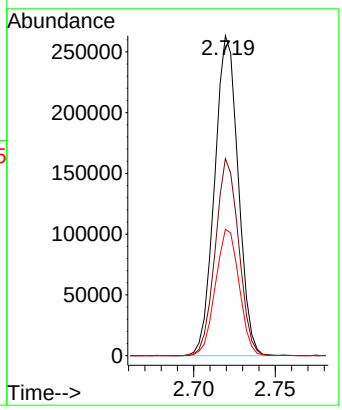


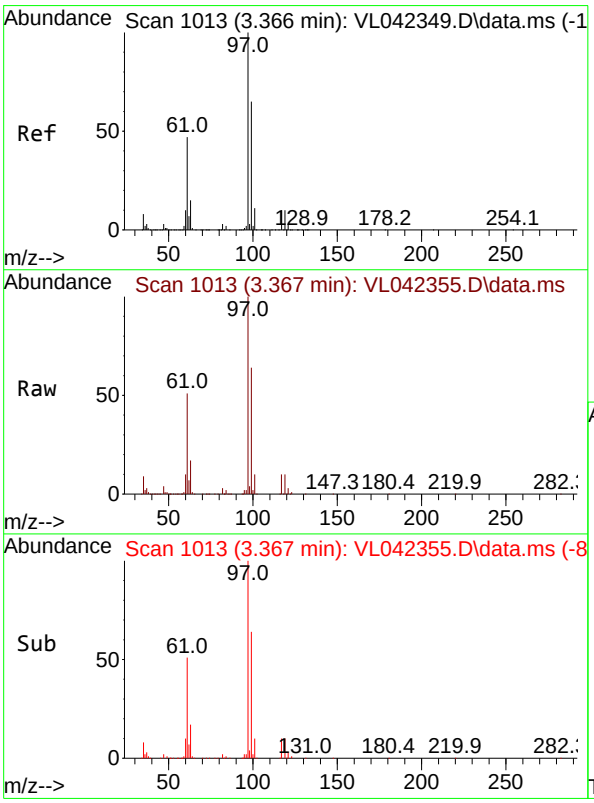
#31
cis-1,2-Dichloroethene
Concen: 14.700 ppbv
RT: 2.719 min Scan# 8
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 61 Resp: 264972

Ion	Ratio	Lower	Upper
61	100		
96	61.6	50.8	76.2
98	39.5	30.9	46.3

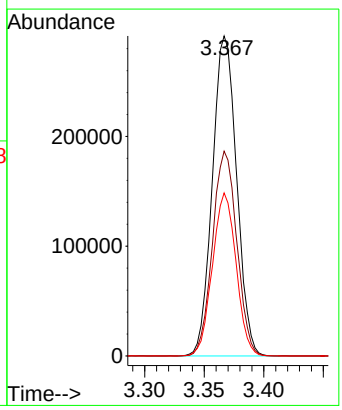


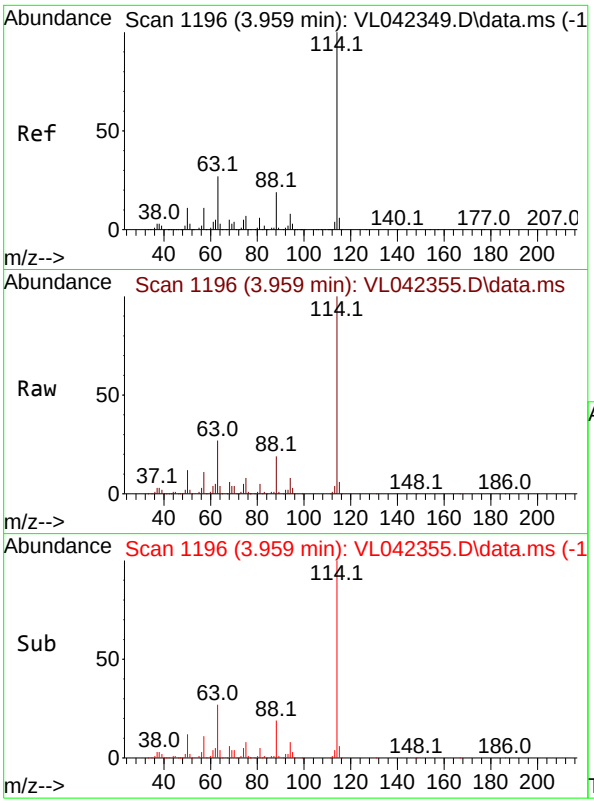


#32
1,1,1-Trichloroethane
Concen: 14.357 ppbv
RT: 3.367 min Scan# 1013
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 97 Resp: 412537

Ion	Ratio	Lower	Upper
97	100		
99	64.1	51.0	76.4
61	49.8	38.8	58.2



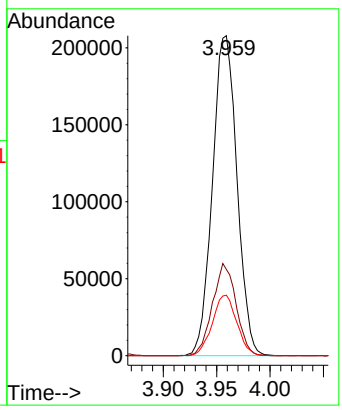


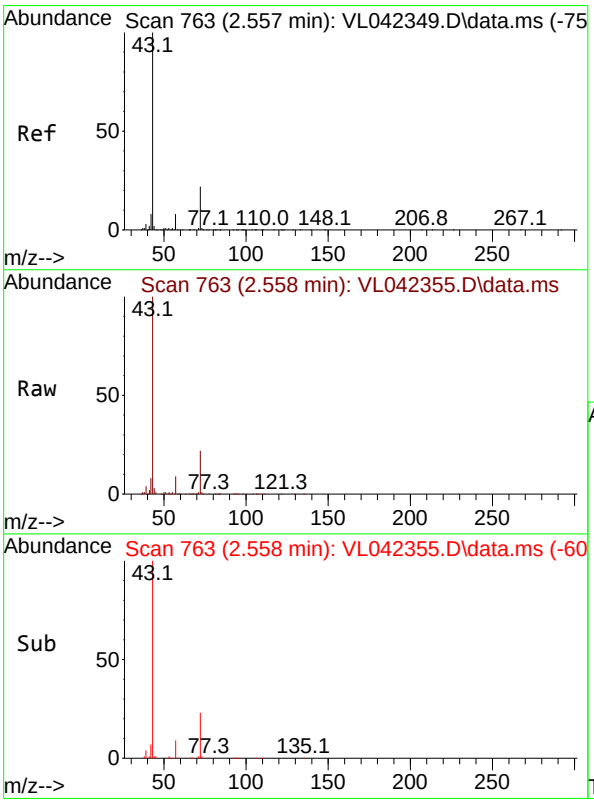
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.959 min Scan# 1
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion:114 Resp: 332080

Ion	Ratio	Lower	Upper
114	100		
63	27.7	21.8	32.6
88	18.9	15.5	23.3

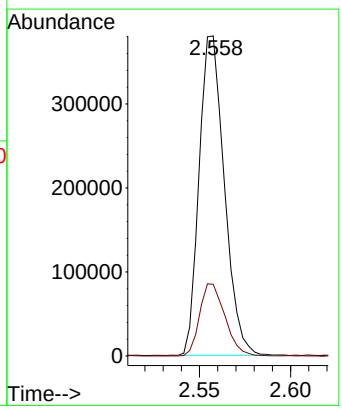


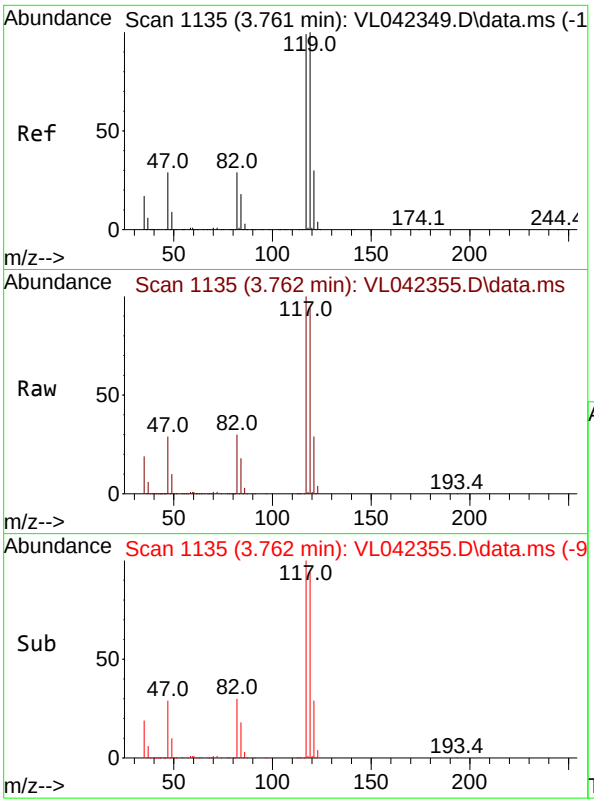


#34
2-Butanone
Concen: 13.986 ppbv
RT: 2.558 min Scan# 763
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 43 Resp: 367315

Ion	Ratio	Lower	Upper
43	100		
72	22.7	18.2	27.2



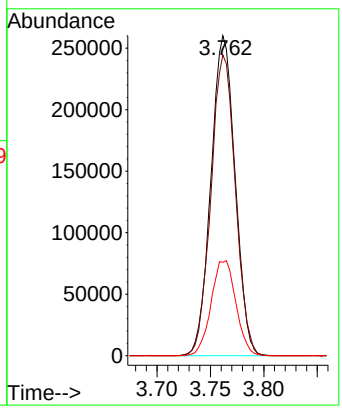


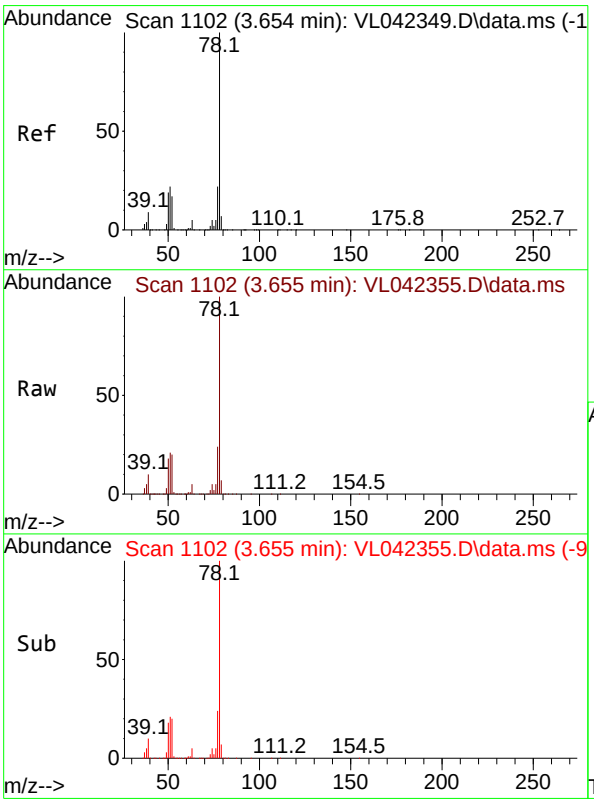
#35
Carbon Tetrachloride
Concen: 13.639 ppbv
RT: 3.762 min Scan# 1
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion:117 Resp: 409916

Ion	Ratio	Lower	Upper
117	100		
119	94.0	80.5	120.7
121	29.2	24.2	36.2

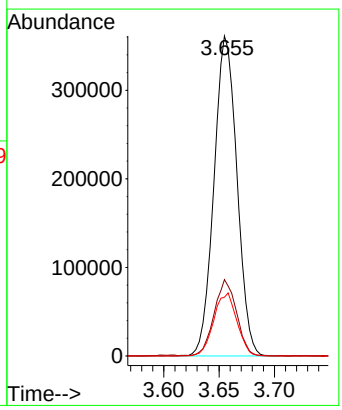


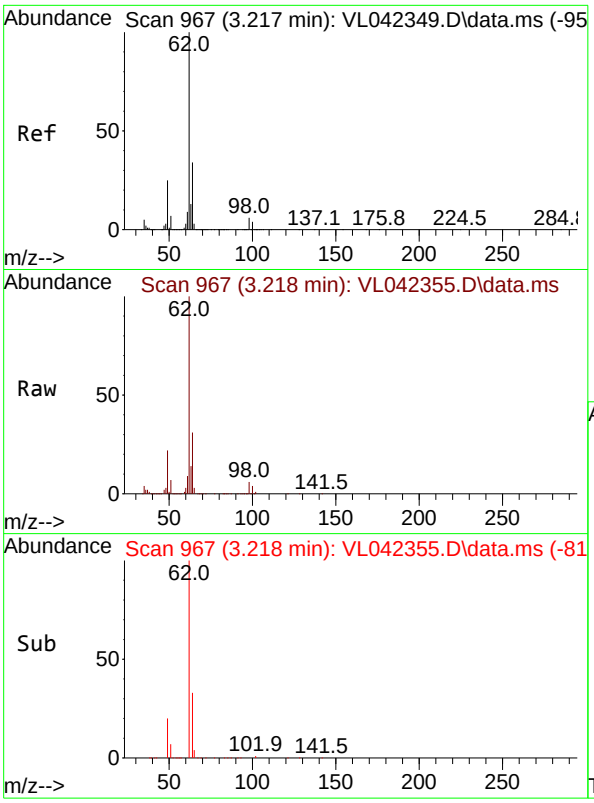


#36
Benzene
Concen: 14.578 ppbv
RT: 3.655 min Scan# 1102
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 78 Resp: 522156

Ion	Ratio	Lower	Upper
78	100		
77	23.8	17.4	26.0
50	18.3	15.5	23.3



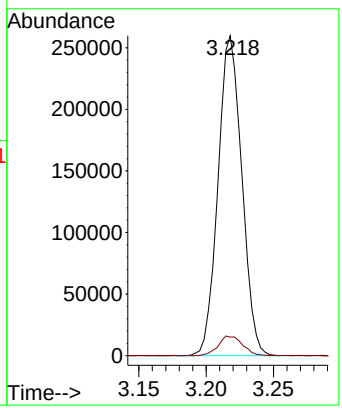


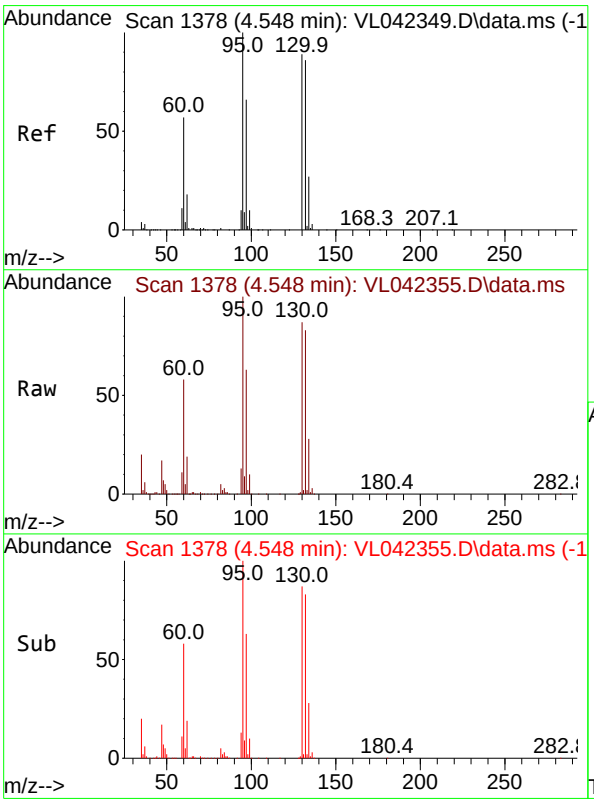
#37
1,2-Dichloroethane
Concen: 14.863 ppbv
RT: 3.218 min Scan# 9
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 62 Resp: 319517

Ion	Ratio	Lower	Upper
62	100		
98	6.3	5.1	7.7

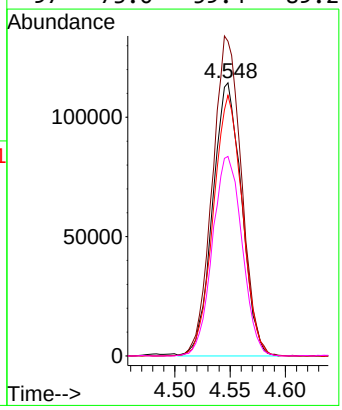


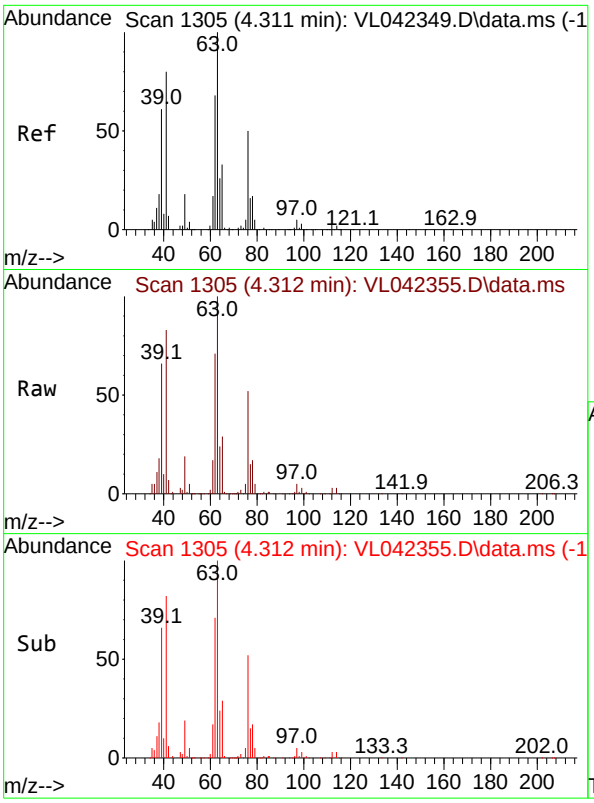


#38
Trichloroethene
Concen: 13.278 ppbv
RT: 4.548 min Scan# 1378
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion:130 Resp: 208508

Ion	Ratio	Lower	Upper
130	100		
95	115.0	89.8	134.6
132	95.3	77.7	116.5
97	73.0	59.4	89.2



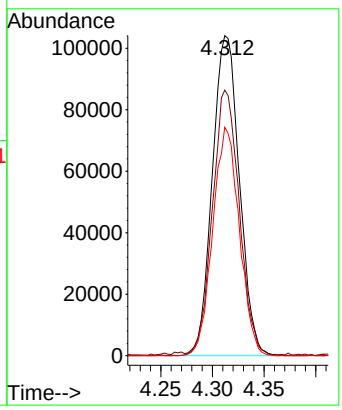


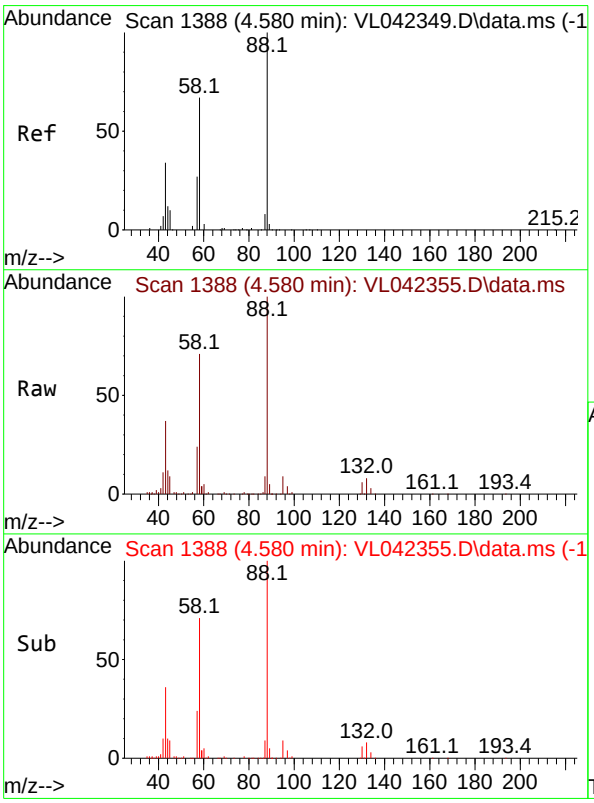
#39
1,2-Dichloropropane
Concen: 14.201 ppbv
RT: 4.312 min Scan# 1
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 63 Resp: 189697

Ion	Ratio	Lower	Upper
63	100		
41	82.7	64.2	96.2
62	71.4	54.3	81.5

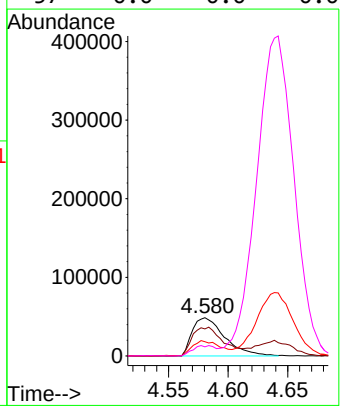


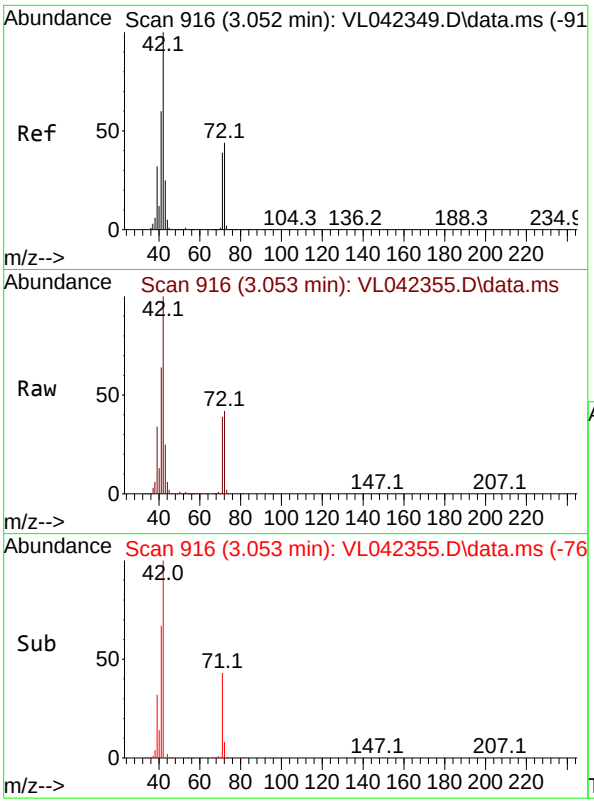


#40
1,4-Dioxane
Concen: 12.733 ppbv
RT: 4.580 min Scan# 1388
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 88 Resp: 92114

Ion	Ratio	Lower	Upper
88	100		
58	75.2	61.4	92.0
43	36.8	23.2	34.8#
57	0.0	0.0	0.0



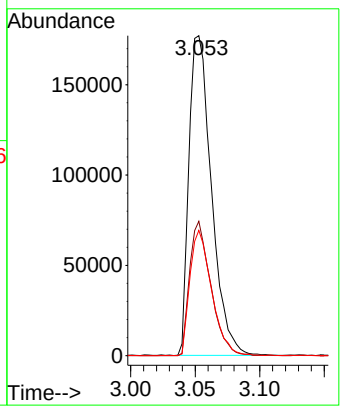


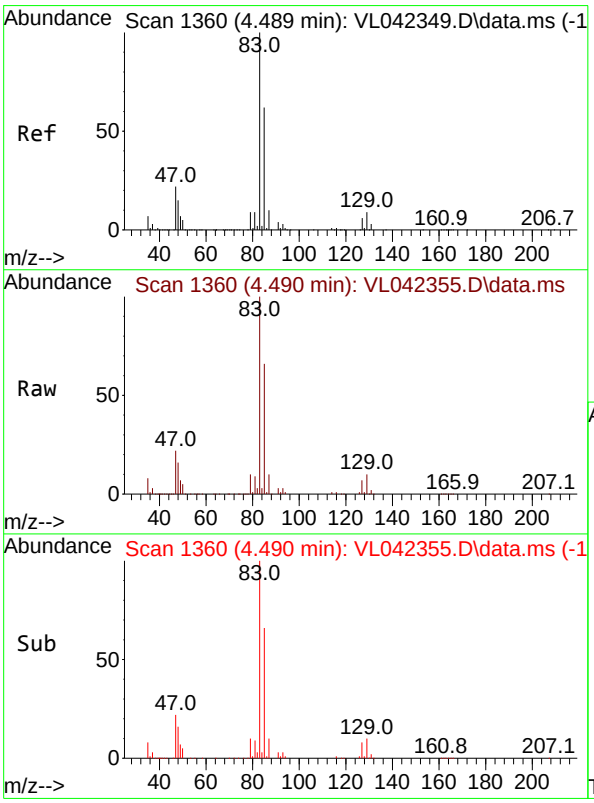
#41
Tetrahydrofuran
Concen: 14.166 ppbv
RT: 3.053 min Scan# 91
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 42 Resp: 214949

Ion	Ratio	Lower	Upper
42	100		
72	39.7	32.3	48.5
71	37.9	31.4	47.2

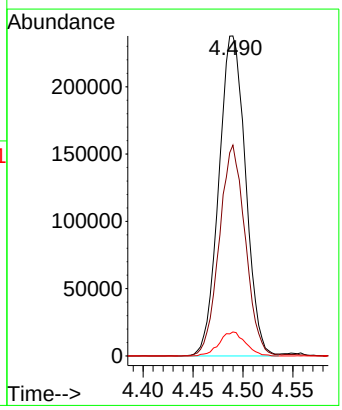


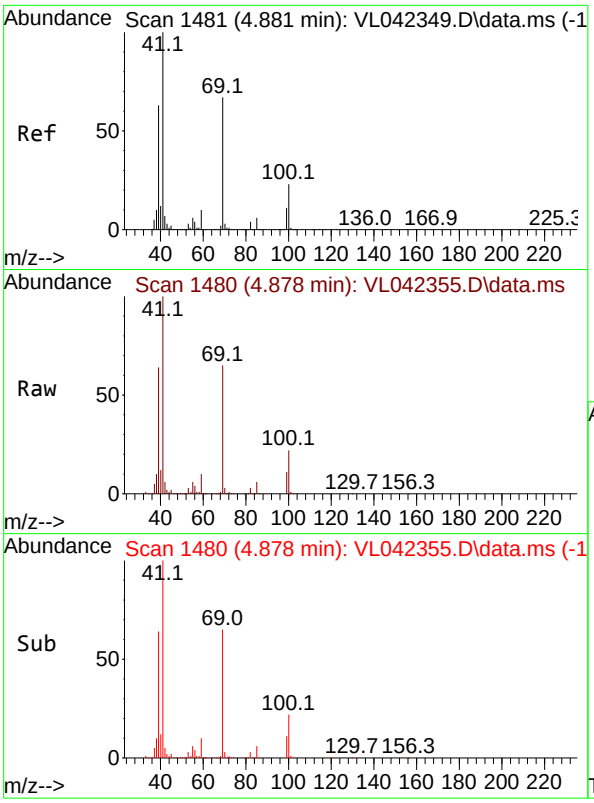


#42
Bromodichloromethane
Concen: 14.798 ppbv
RT: 4.490 min Scan# 1360
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 83 Resp: 442735

Ion	Ratio	Lower	Upper
83	100		
85	65.9	49.7	74.5
127	7.5	5.1	7.7



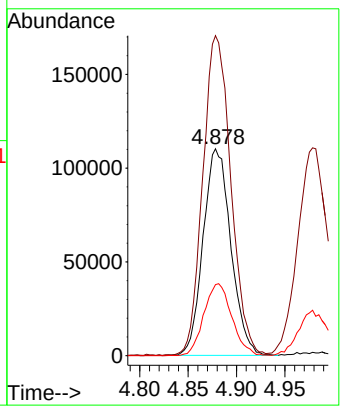


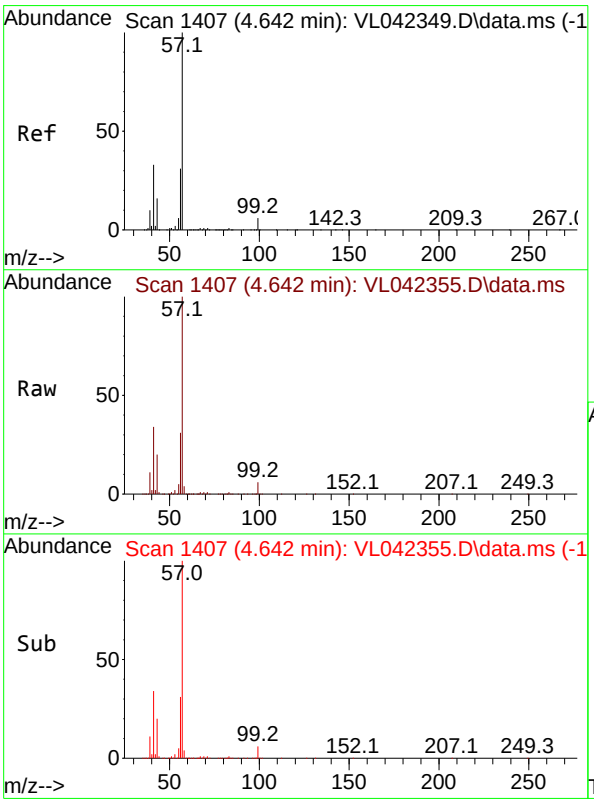
#43
Methyl Methacrylate
Concen: 13.670 ppbv
RT: 4.878 min Scan# 14
Delta R.T. -0.003 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 69 Resp: 219757

Ion	Ratio	Lower	Upper
69	100		
41	156.6	118.6	177.8
100	35.2	28.2	42.2

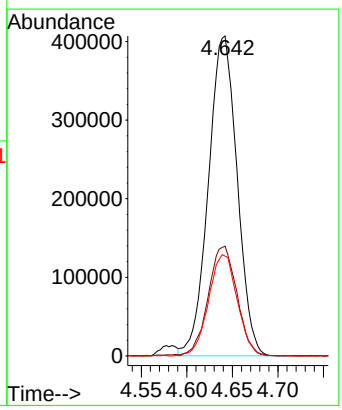


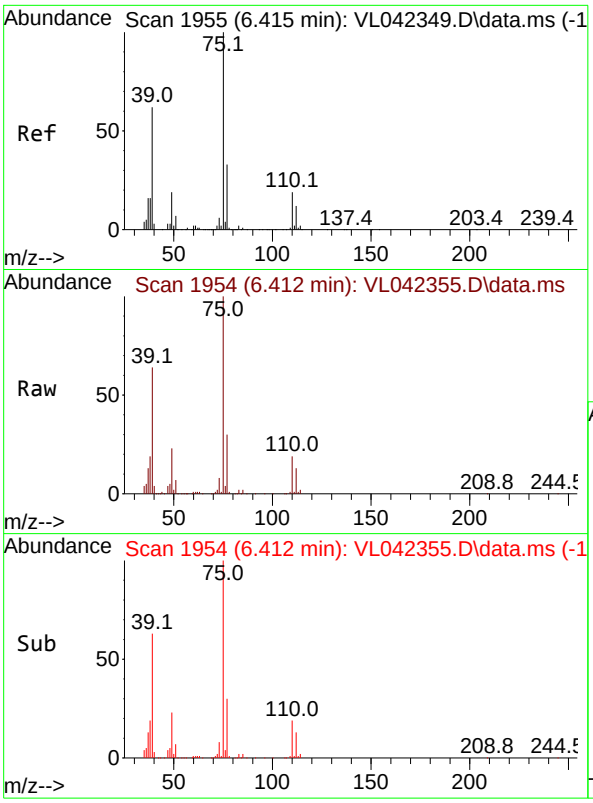


#44
2,2,4-Trimethylpentane
Concen: 14.425 ppbv
RT: 4.642 min Scan# 1407
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 57 Resp: 893529

Ion	Ratio	Lower	Upper
57	100		
41	34.4	27.2	40.8
56	31.6	25.7	38.5



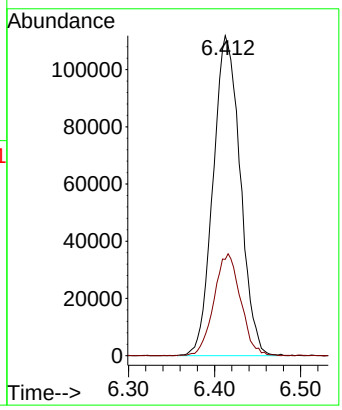


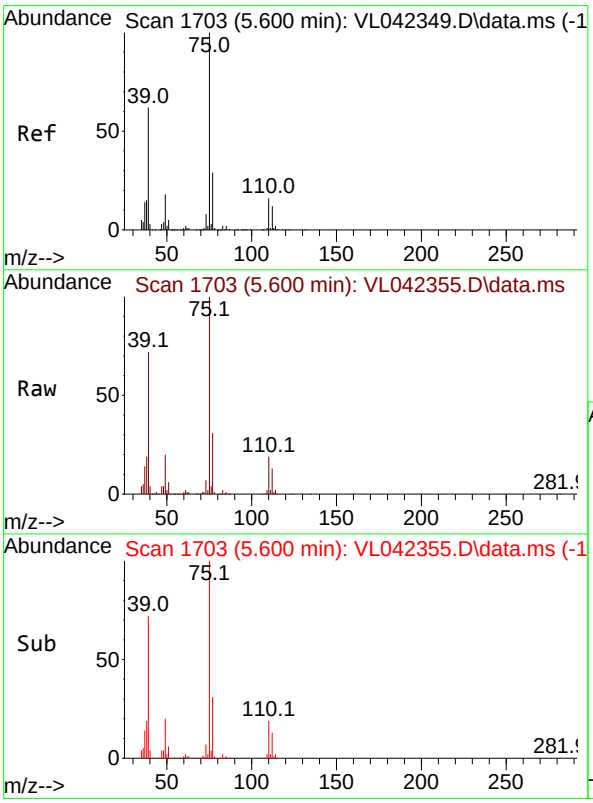
#45
t-1,3-Dichloropropene
Concen: 14.810 ppbv
RT: 6.412 min Scan# 1
Delta R.T. -0.003 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 75 Resp: 244470

Ion	Ratio	Lower	Upper
75	100		
77	30.1	27.0	40.6

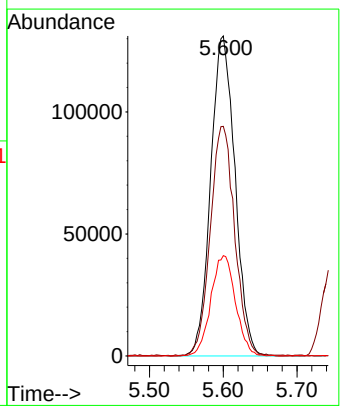


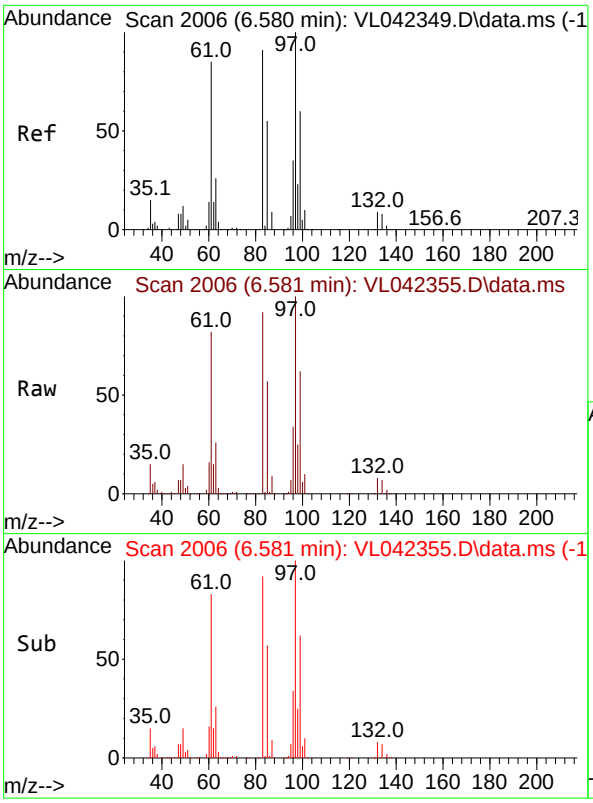


#46
cis-1,3-Dichloropropene
Concen: 14.878 ppbv
RT: 5.600 min Scan# 1703
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 75 Resp: 300145

Ion	Ratio	Lower	Upper
75	100		
39	71.6	50.0	75.0
77	31.3	23.0	34.6



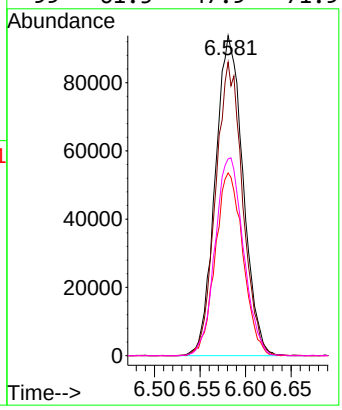


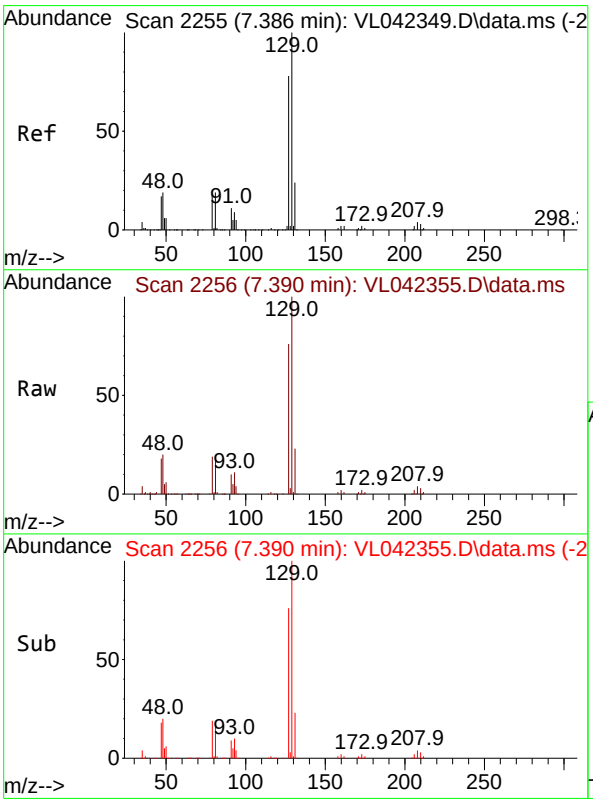
#47
1,1,2-Trichloroethane
Concen: 14.615 ppbv
RT: 6.581 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 97 Resp: 198874

Ion	Ratio	Lower	Upper
97	100		
83	91.7	72.8	109.2
85	57.0	44.2	66.4
99	61.5	47.9	71.9

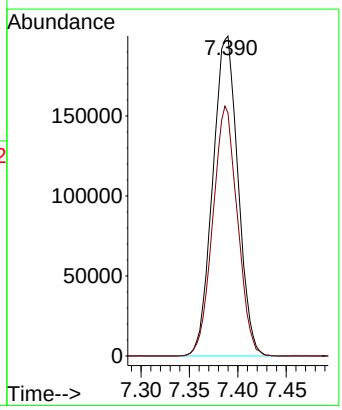


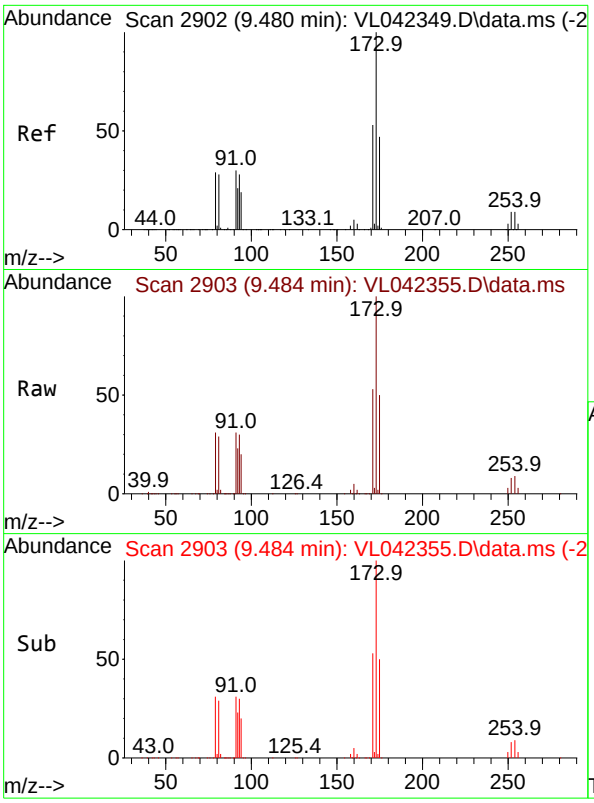


#48
Dibromochloromethane
Concen: 15.105 ppbv
RT: 7.390 min Scan# 2256
Delta R.T. 0.004 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion:129 Resp: 362887

Ion	Ratio	Lower	Upper
129	100		
127	76.3	39.1	117.3



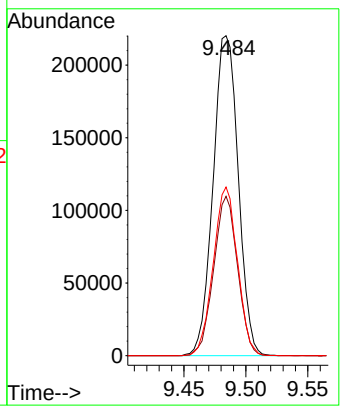


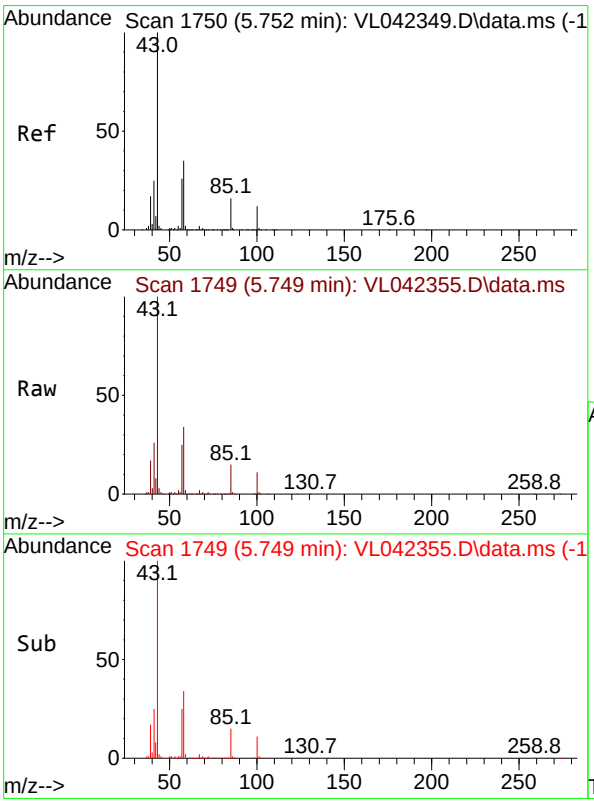
#49
Bromoform
Concen: 14.865 ppbv
RT: 9.484 min Scan# 2
Delta R.T. 0.004 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion:173 Resp: 312282

Ion	Ratio	Lower	Upper
173	100		
175	47.3	38.2	57.2
171	50.6	40.9	61.3

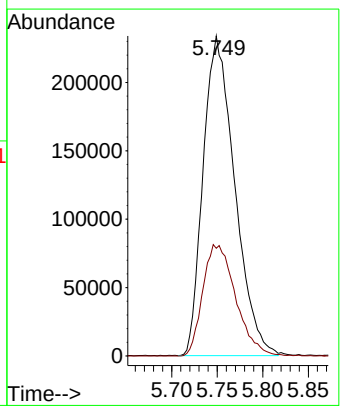


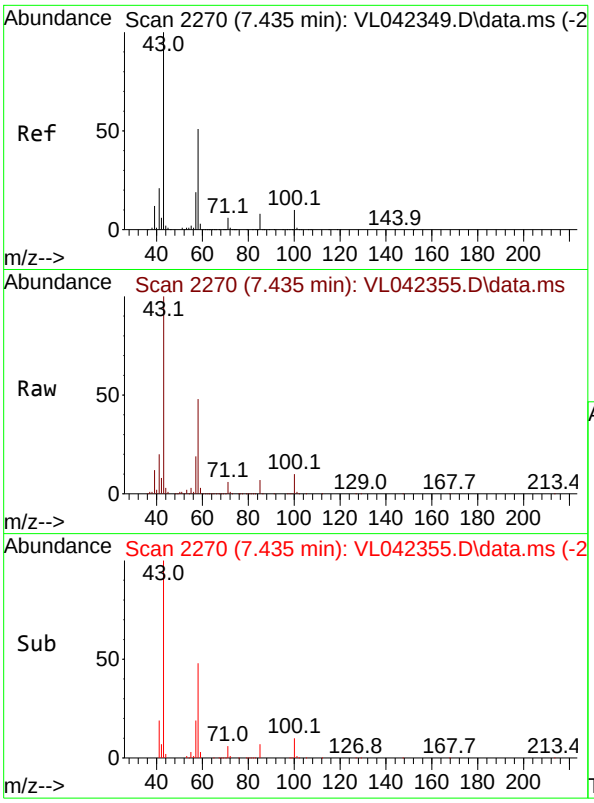


#50
4-Methyl-2-Pentanone
Concen: 12.889 ppbv
RT: 5.749 min Scan# 1749
Delta R.T. -0.003 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 43 Resp: 563658

Ion	Ratio	Lower	Upper
43	100		
58	36.3	28.6	43.0



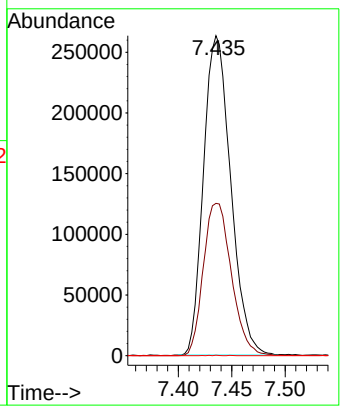


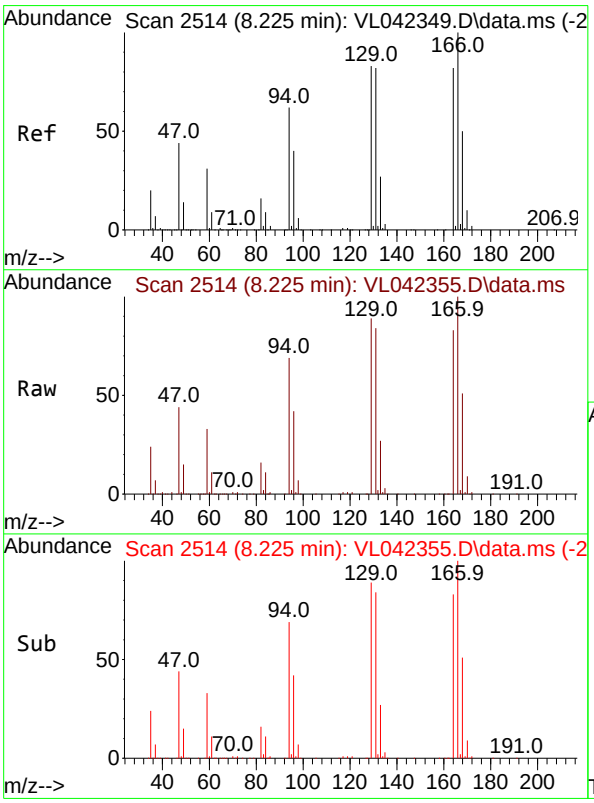
#51
2-Hexanone
Concen: 11.834 ppbv
RT: 7.435 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 43 Resp: 467001

Ion	Ratio	Lower	Upper
43	100		
58	49.2	40.2	60.4
98	0.0	0.1	0.1#

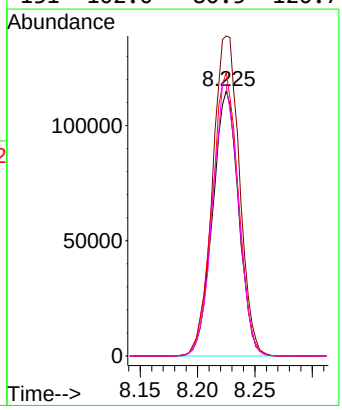


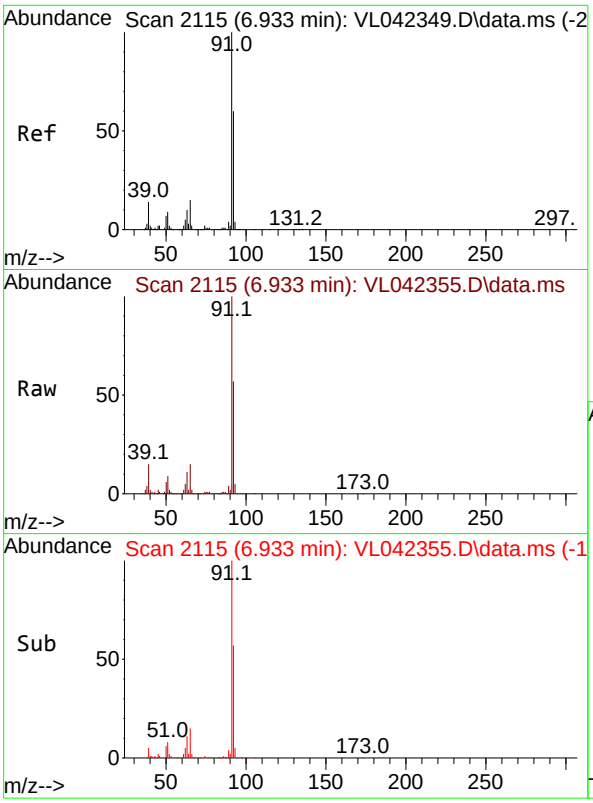


#52
Tetrachloroethene
Concen: 13.046 ppbv
RT: 8.225 min Scan# 2514
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion:164 Resp: 180631

Ion	Ratio	Lower	Upper
164	100		
166	120.8	98.2	147.2
129	107.0	81.8	122.8
131	102.0	80.5	120.7



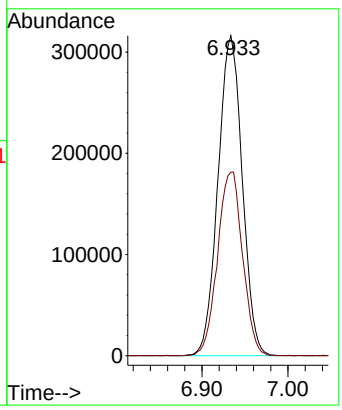


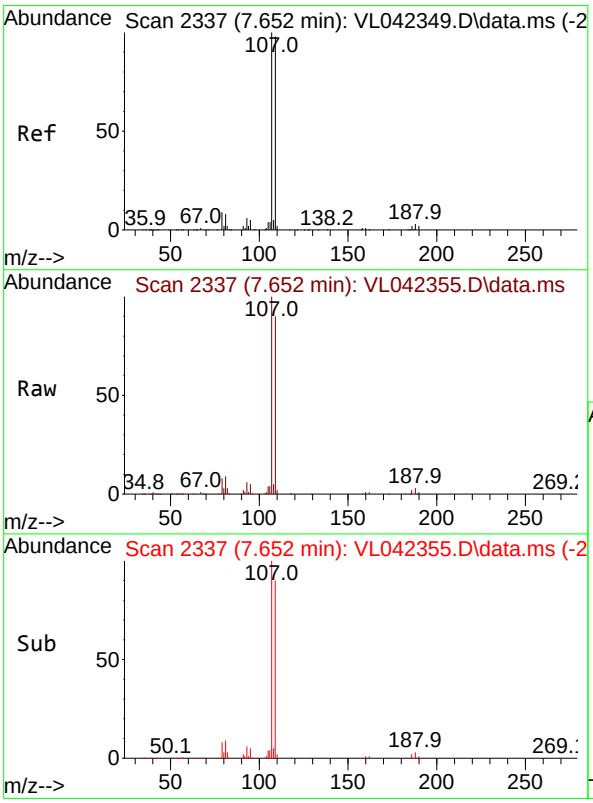
#53
Toluene
Concen: 14.411 ppbv
RT: 6.933 min Scan# 21
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 91 Resp: 619420

Ion	Ratio	Lower	Upper
91	100		
92	59.3	48.2	72.4

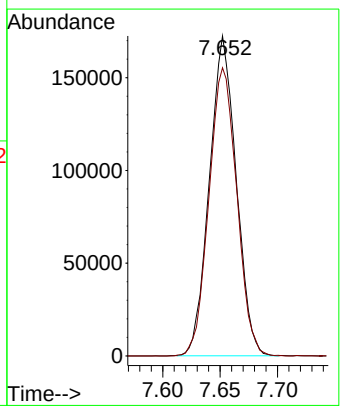


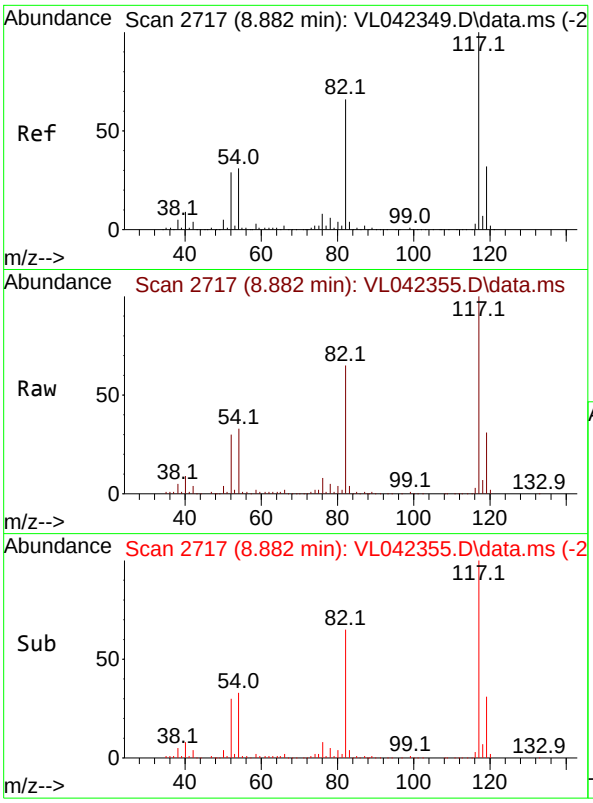


#54
1,2-Dibromoethane
Concen: 14.442 ppbv
RT: 7.652 min Scan# 2337
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion:107 Resp: 280071

Ion	Ratio	Lower	Upper
107	100		
109	89.9	78.2	117.4



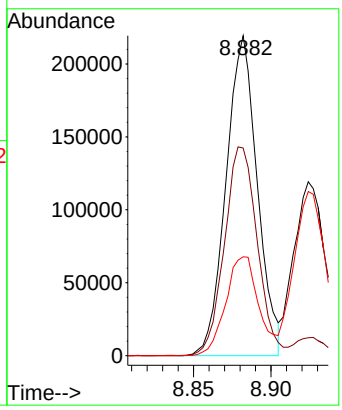


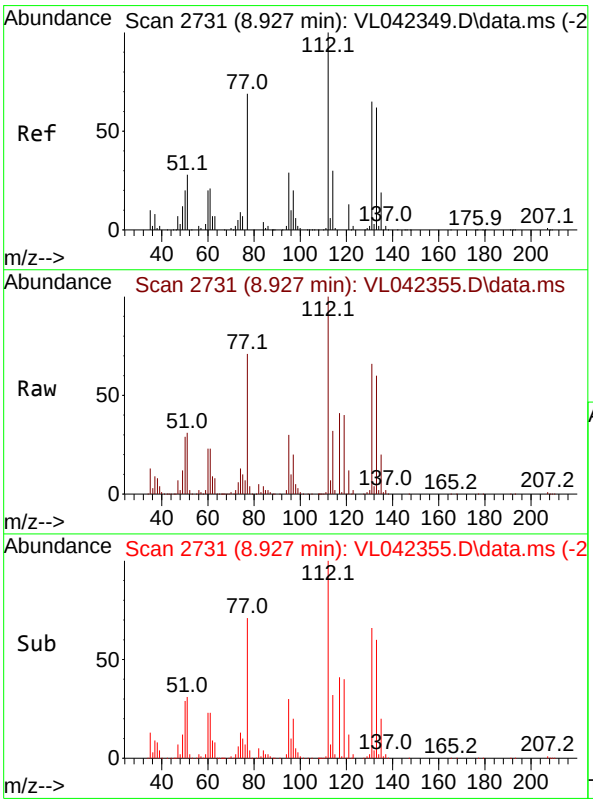
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.882 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion:117 Resp: 308463

Ion	Ratio	Lower	Upper
117	100		
82	74.2	57.8	86.6
119	31.4	25.2	37.8

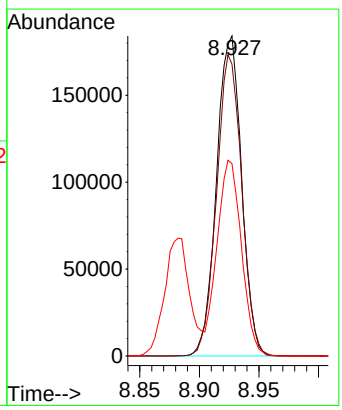


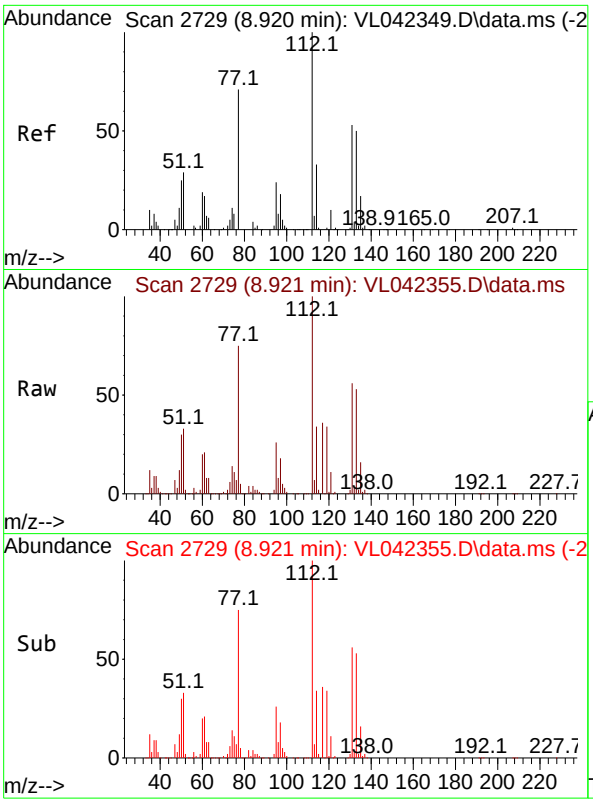


#56
1,1,1,2-Tetrachloroethane
Concen: 14.389 ppbv
RT: 8.927 min Scan# 2731
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion:131 Resp: 268626

Ion	Ratio	Lower	Upper
131	100		
133	94.6	78.3	117.5
119	59.4	48.7	73.1



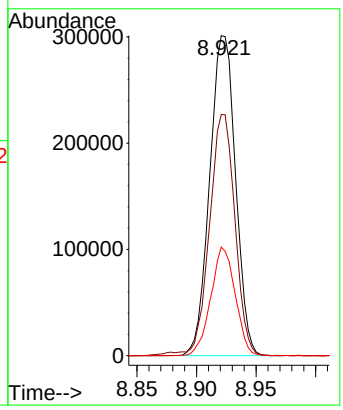


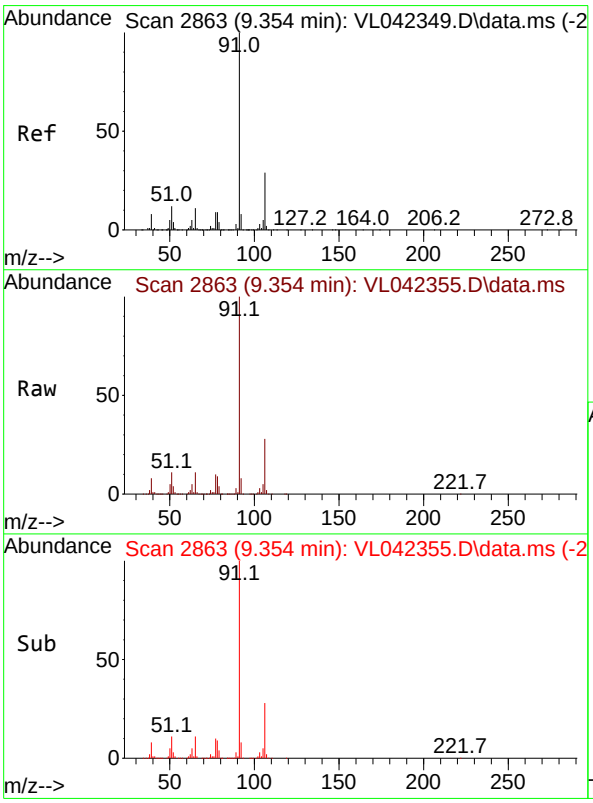
#57
Chlorobenzene
Concen: 14.151 ppbv
RT: 8.921 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion:112 Resp: 454017

Ion	Ratio	Lower	Upper
112	100		
77	75.3	57.8	86.6
114	33.9	29.3	35.9

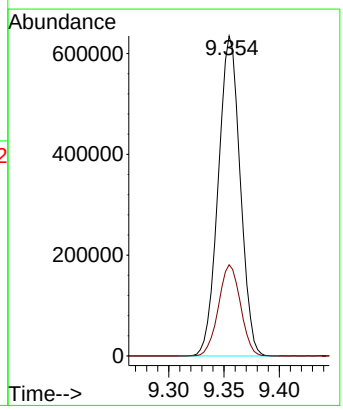


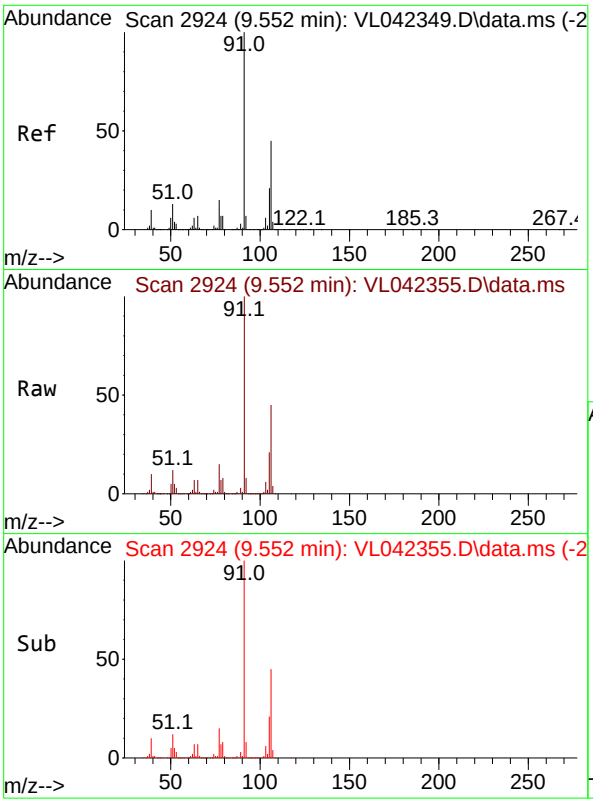


#58
Ethyl Benzene
Concen: 14.308 ppbv
RT: 9.354 min Scan# 2863
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 91 Resp: 874424

Ion	Ratio	Lower	Upper
91	100		
106	28.5	23.0	34.4



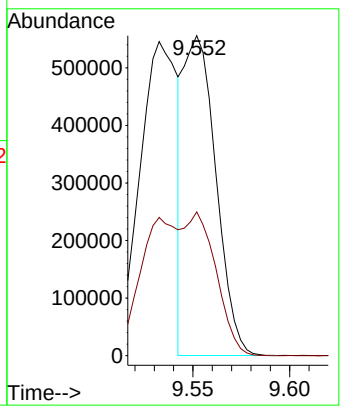


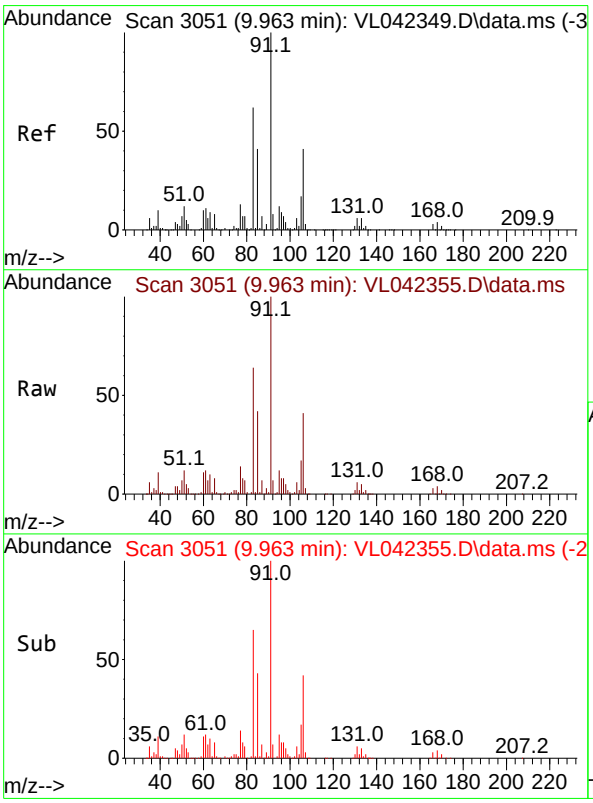
#59
m/p-Xylene
Concen: 13.067 ppbv
RT: 9.552 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 91 Resp: 645250

Ion	Ratio	Lower	Upper
91	100		
106	95.8	35.4	53.2#

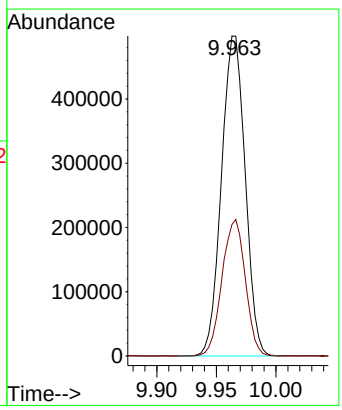


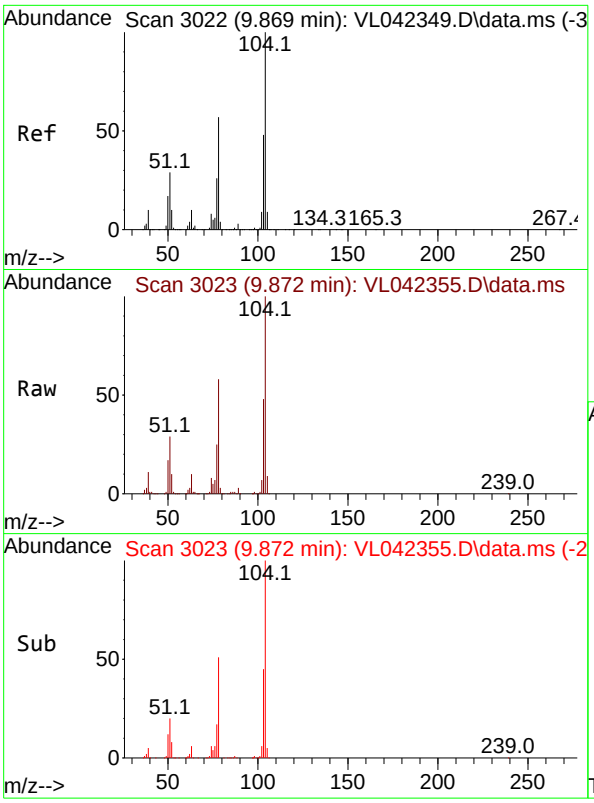


#60
o-Xylene
Concen: 13.902 ppbv
RT: 9.963 min Scan# 3051
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 91 Resp: 689246

Ion	Ratio	Lower	Upper
91	100		
106	41.9	21.1	63.4



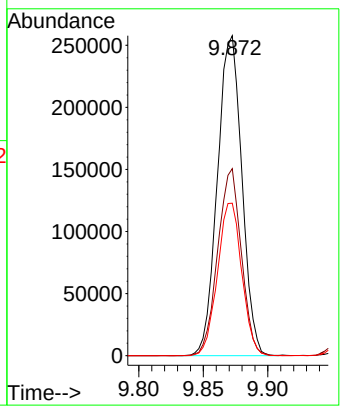


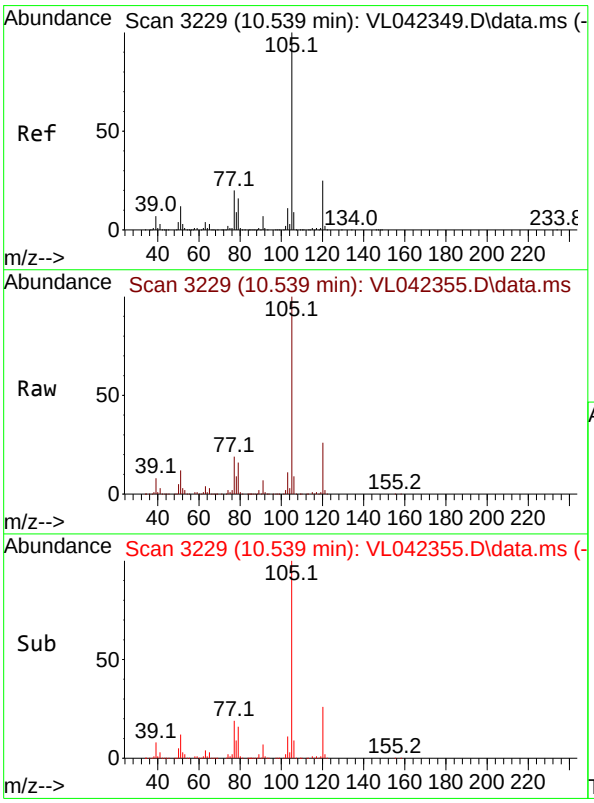
#61
Styrene
Concen: 14.347 ppbv
RT: 9.872 min Scan# 3
Delta R.T. 0.004 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion:104 Resp: 339508

Ion	Ratio	Lower	Upper
104	100		
78	56.4	44.6	66.8
103	47.3	37.4	56.0

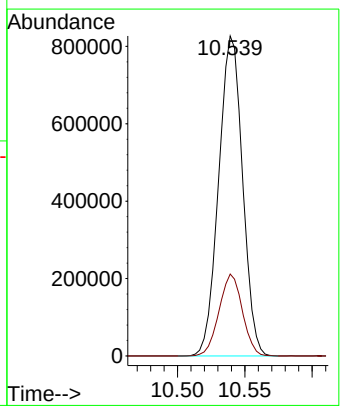


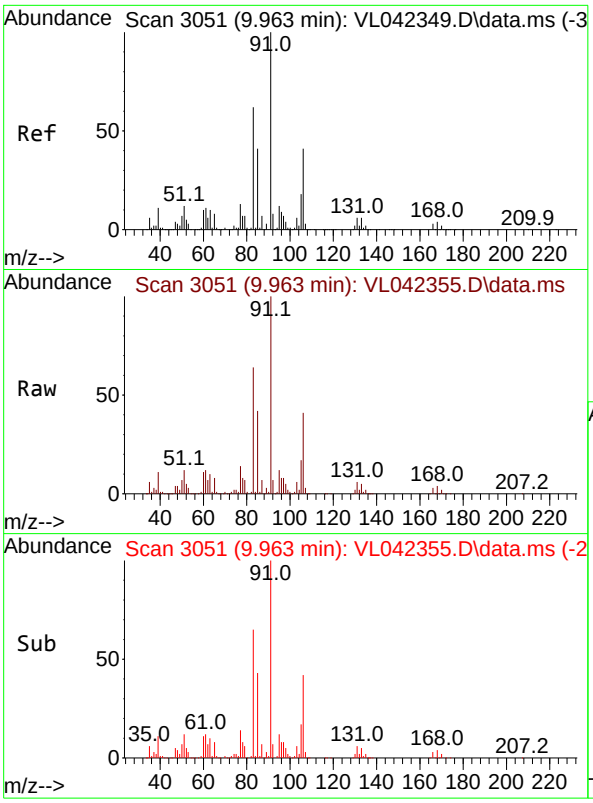


#62
Isopropylbenzene
Concen: 13.999 ppbv
RT: 10.539 min Scan# 3229
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion:105 Resp: 1018968

Ion	Ratio	Lower	Upper
105	100		
120	25.0	19.8	29.8



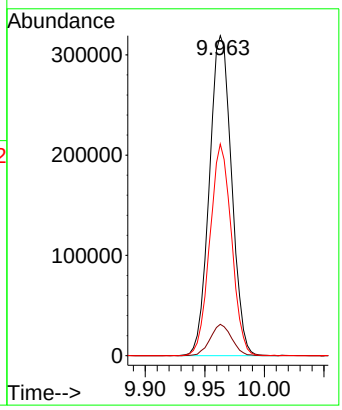


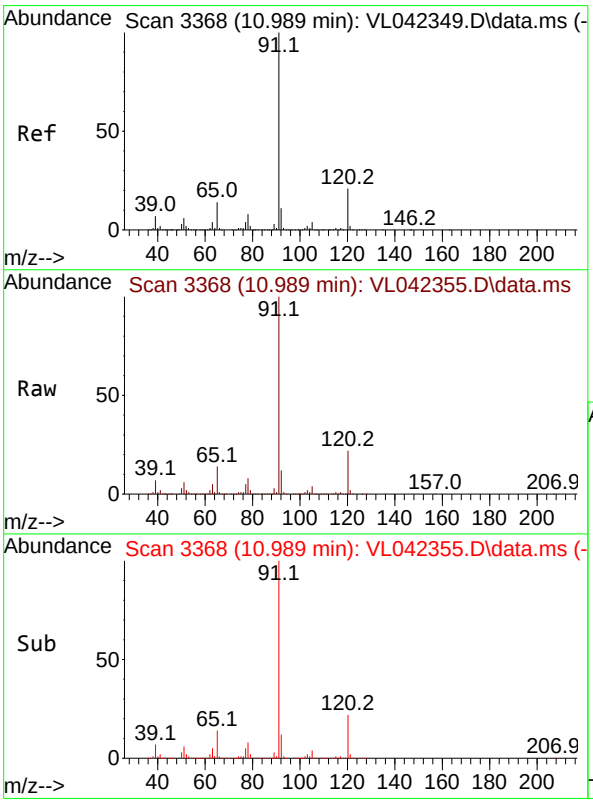
#63
1,1,2,2-Tetrachloroethane
Concen: 12.816 ppbv
RT: 9.963 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 83 Resp: 412898

Ion	Ratio	Lower	Upper
83	100		
131	9.5	4.5	13.7
85	64.5	32.4	97.0

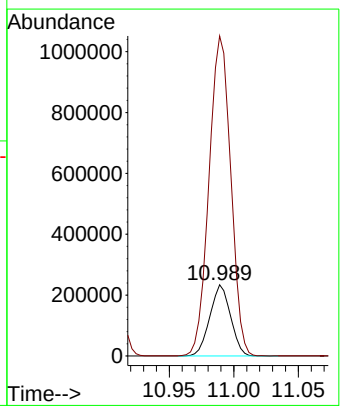


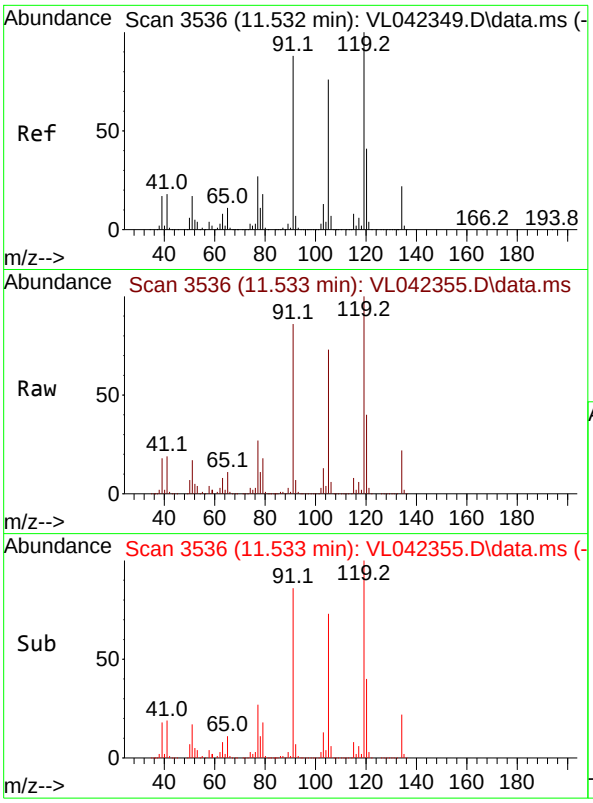


#64
n-propylbenzene
Concen: 14.255 ppbv
RT: 10.989 min Scan# 3368
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion:120 Resp: 260812

Ion	Ratio	Lower	Upper
120	100		
91	473.2	392.4	588.6



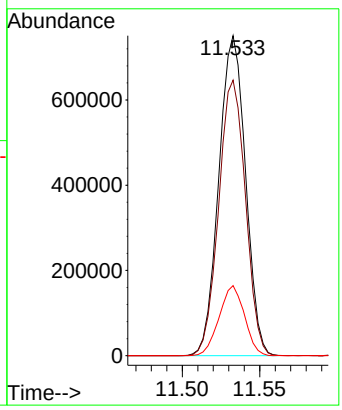


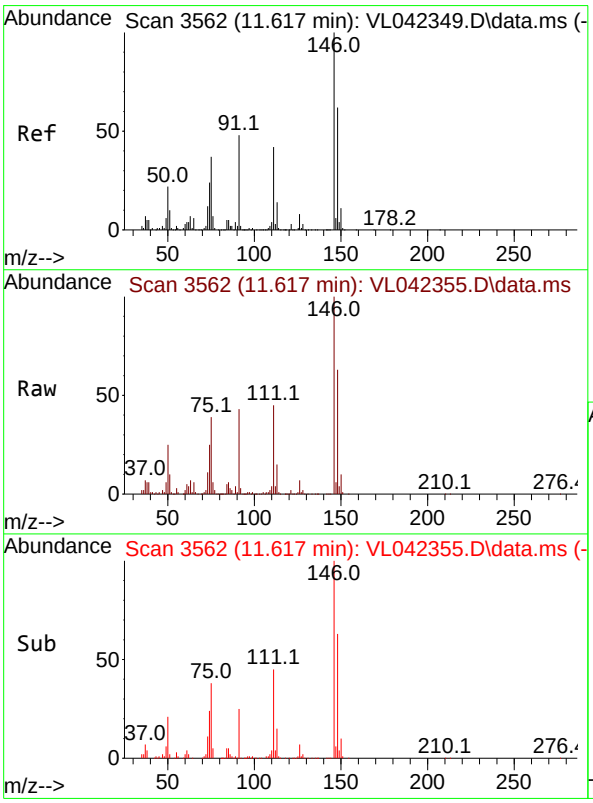
#65
tert-Butylbenzene
Concen: 13.449 ppbv
RT: 11.533 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion:119 Resp: 899720

Ion	Ratio	Lower	Upper
119	100		
91	86.2	74.6	111.8
134	20.8	18.8	28.2

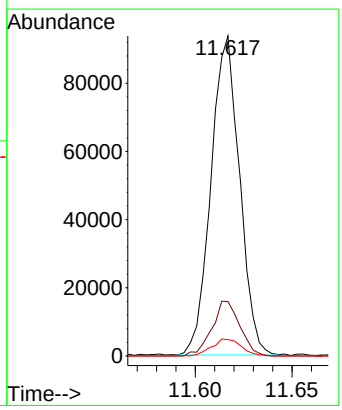


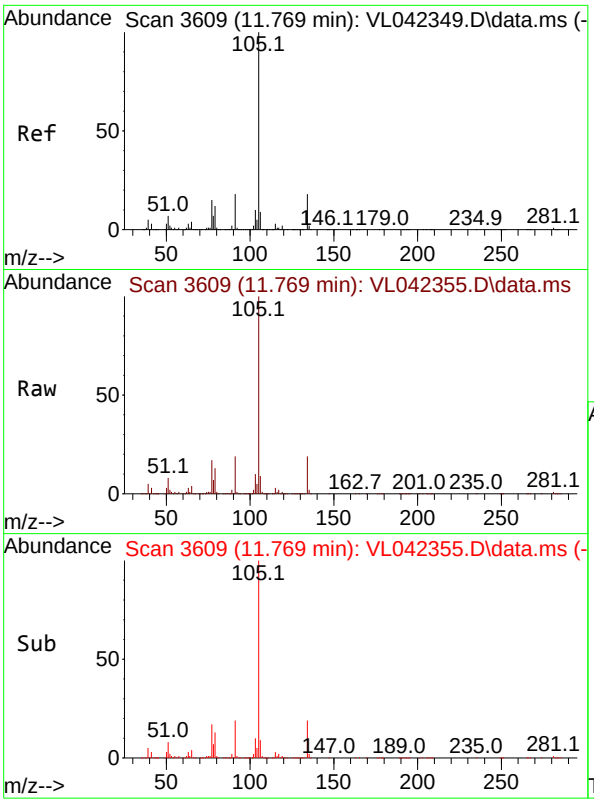


#66
Benzyl Chloride
Concen: 13.061 ppbv
RT: 11.617 min Scan# 3562
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 91 Resp: 96016

Ion	Ratio	Lower	Upper
91	100		
126	16.8	11.8	17.6
128	5.5	4.5	6.7



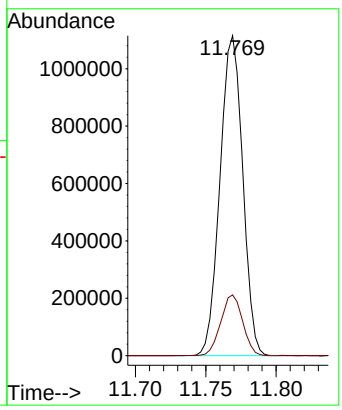


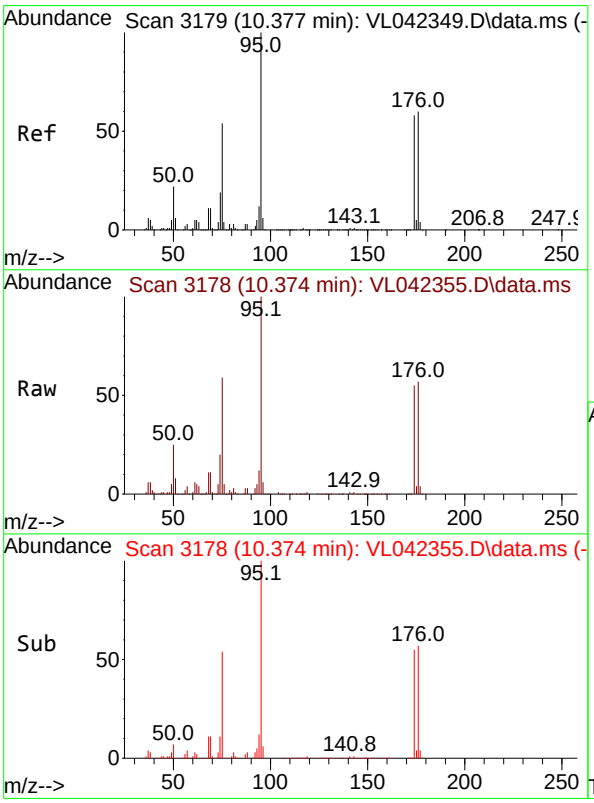
#67
sec-Butylbenzene
Concen: 13.468 ppbv
RT: 11.769 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion:105 Resp: 1253263

Ion	Ratio	Lower	Upper
105	100		
134	18.4	14.6	21.8

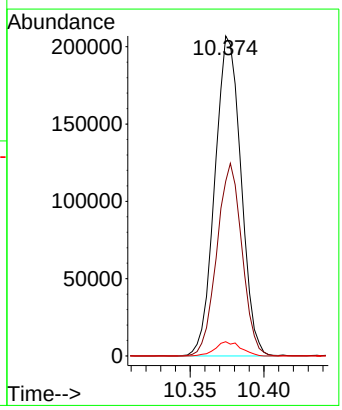


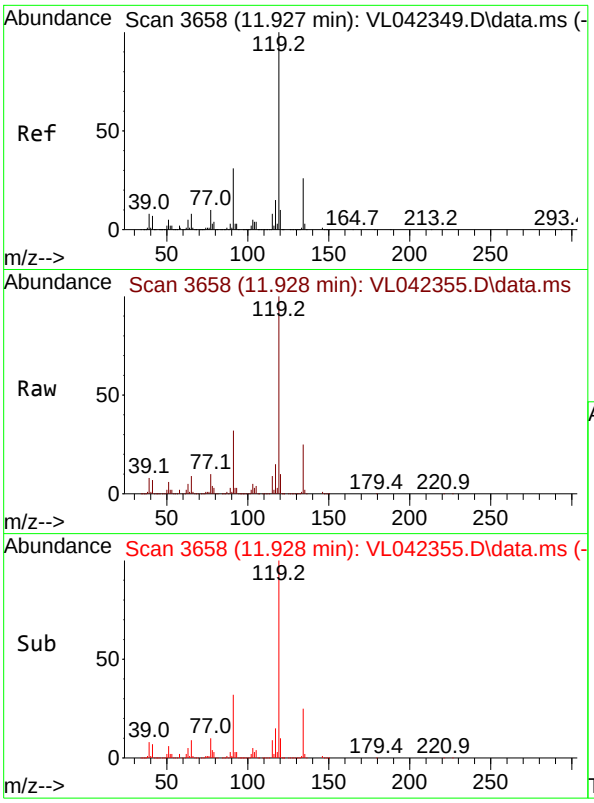


#68
1-Bromo-4-Fluorobenzene
Concen: 10.038 ppbv
RT: 10.374 min Scan# 3178
Delta R.T. -0.003 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 95 Resp: 254437

Ion	Ratio	Lower	Upper
95	100		
174	58.1	48.5	72.7
175	4.4	3.7	5.5



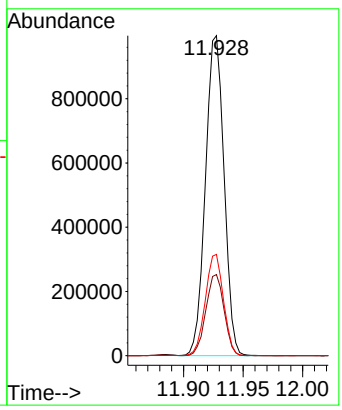


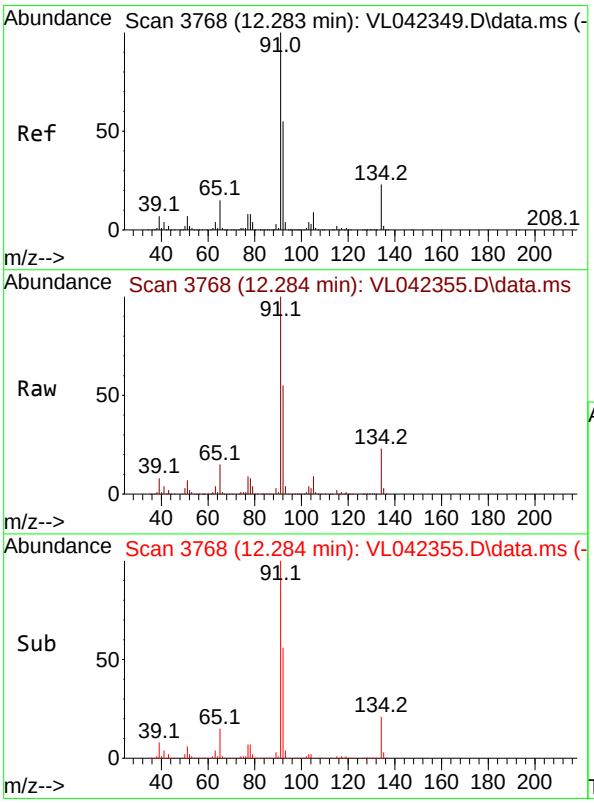
#69
p-Isopropyltoluene
Concen: 13.382 ppbv
RT: 11.928 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion:119 Resp: 1081850

Ion	Ratio	Lower	Upper
119	100		
134	25.0	20.0	30.0
91	31.1	24.4	36.6

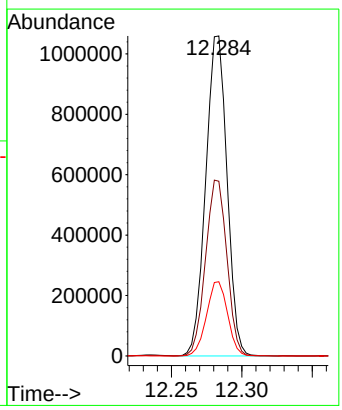


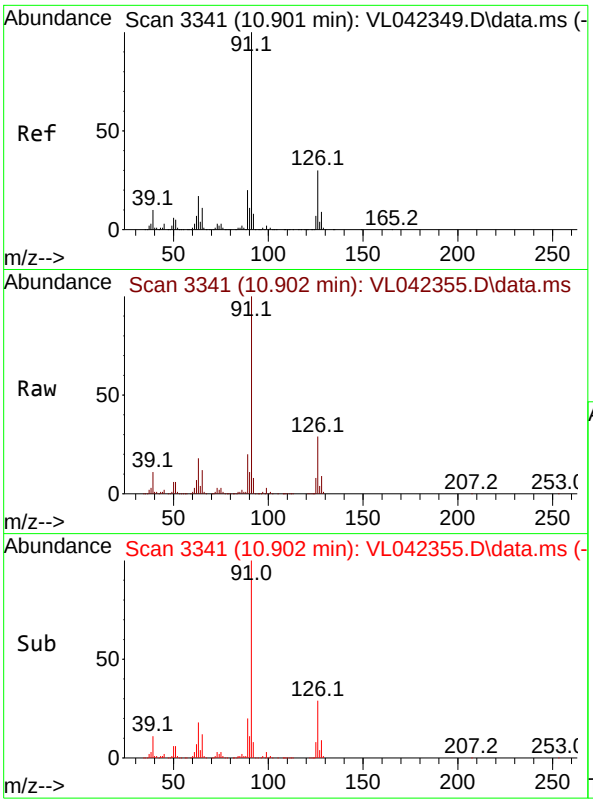


#70
n-Butylbenzene
Concen: 13.266 ppbv
RT: 12.284 min Scan# 3768
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 91 Resp: 1117042

Ion	Ratio	Lower	Upper
91	100		
92	55.3	44.2	66.4
134	23.0	18.2	27.4



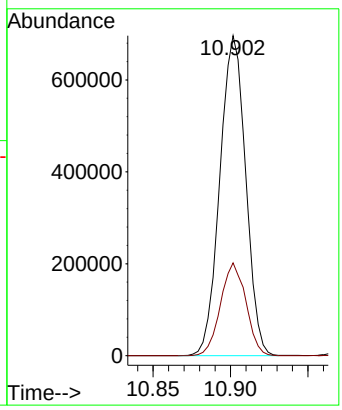


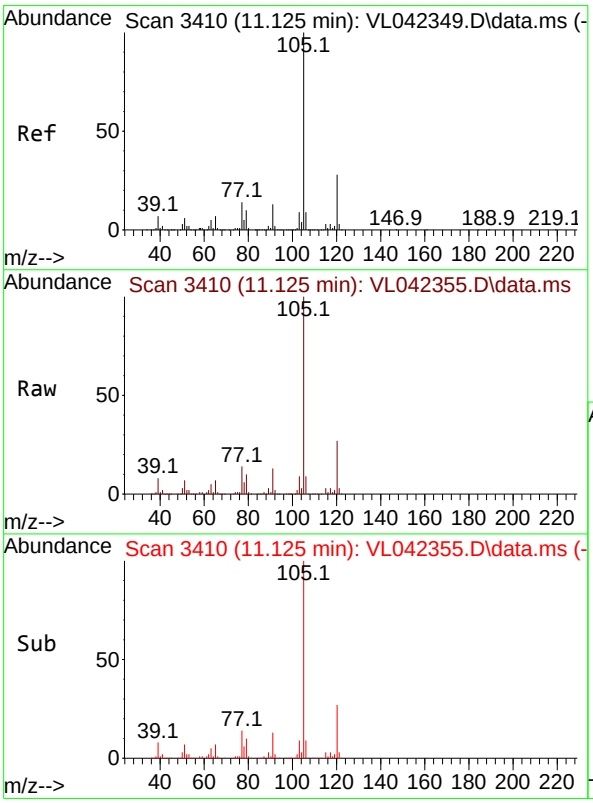
#71
2-Chlorotoluene
Concen: 14.131 ppbv
RT: 10.902 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 91 Resp: 806728

Ion	Ratio	Lower	Upper
91	100		
126	28.4	11.4	45.4

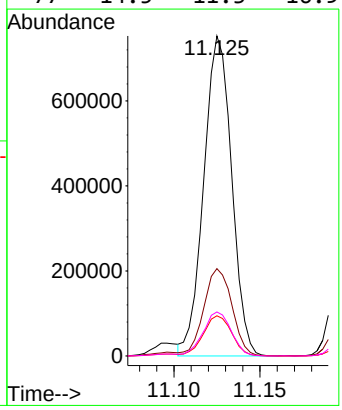


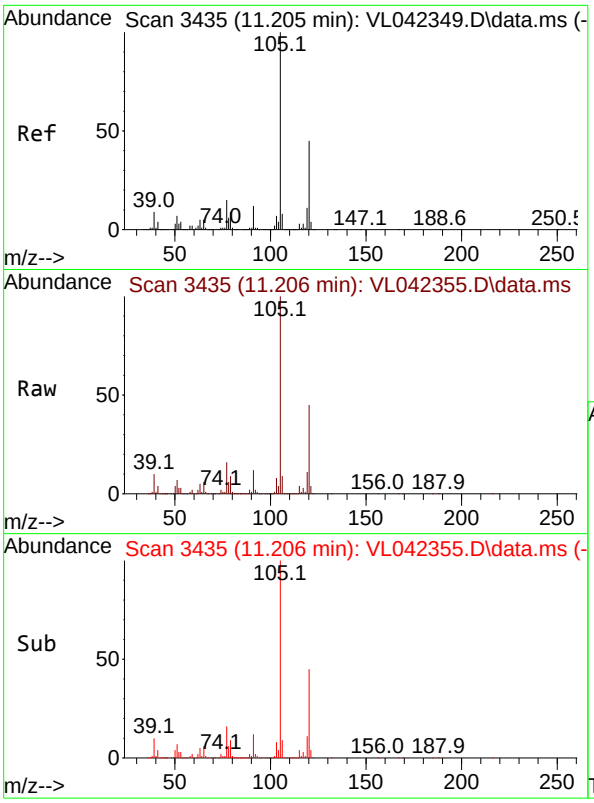


#72
4-Ethyltoluene
Concen: 13.992 ppbv
RT: 11.125 min Scan# 3410
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion:105 Resp: 848077

Ion	Ratio	Lower	Upper
105	100		
120	28.7	23.2	34.8
91	13.5	10.4	15.6
77	14.5	11.3	16.9



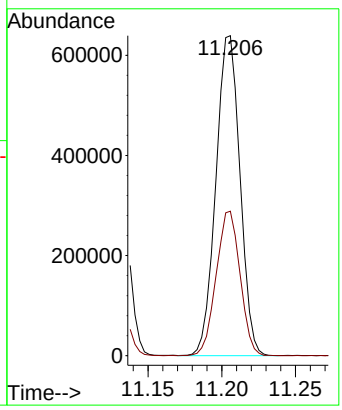


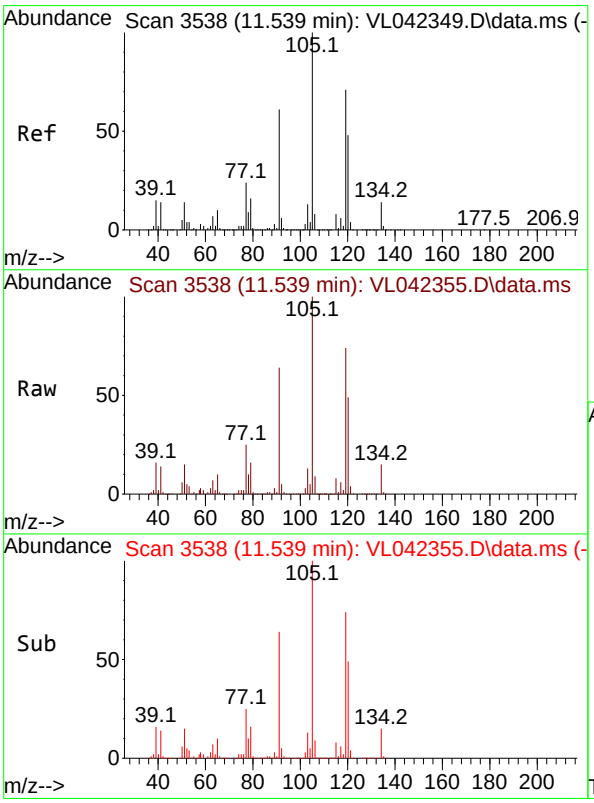
#73
1,3,5-Trimethylbenzene
Concen: 13.578 ppbv
RT: 11.206 min Scan# 34
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion:105 Resp: 726558

Ion	Ratio	Lower	Upper
105	100		
120	45.1	35.6	53.4

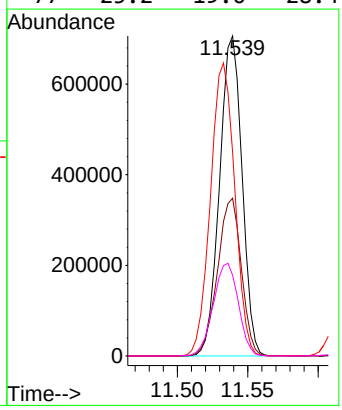


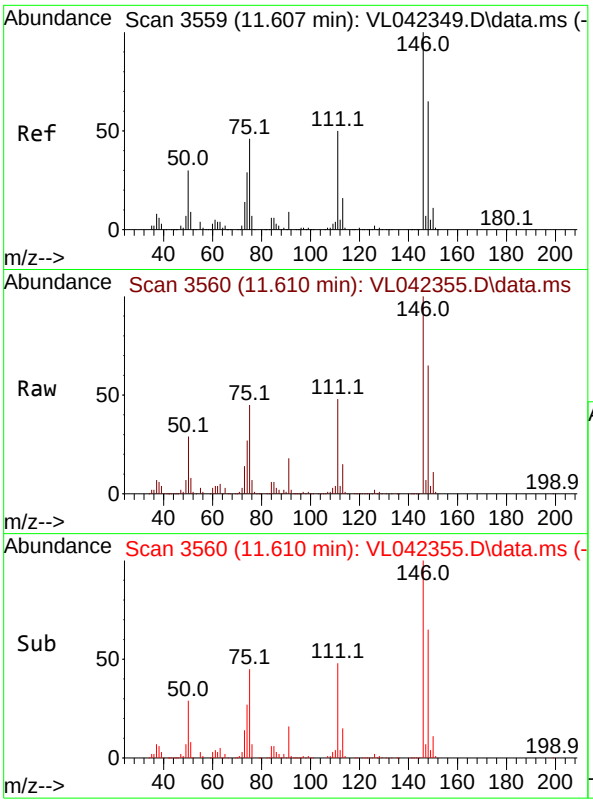


#74
1,2,4-Trimethylbenzene
Concen: 12.572 ppbv
RT: 11.539 min Scan# 3538
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion:105 Resp: 785772

Ion	Ratio	Lower	Upper
105	100		
120	49.3	38.1	57.1
91	63.7	48.8	73.2
77	25.2	19.0	28.4



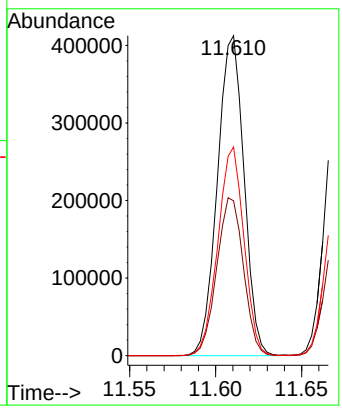


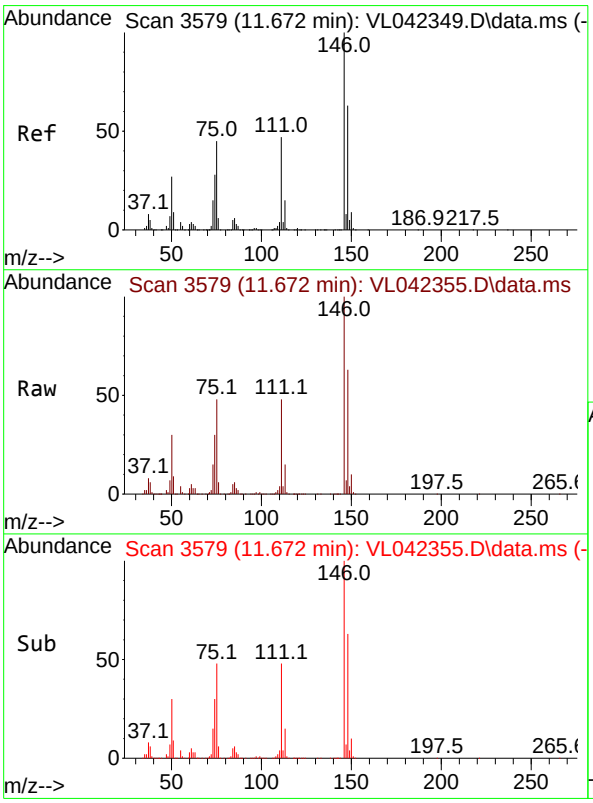
#75
1,3-Dichlorobenzene
Concen: 13.670 ppbv
RT: 11.610 min Scan# 3
Delta R.T. 0.004 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion:146 Resp: 444086

Ion	Ratio	Lower	Upper
146	100		
111	49.6	24.3	72.8
148	63.9	31.6	94.8

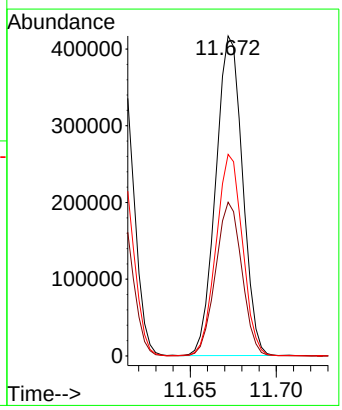


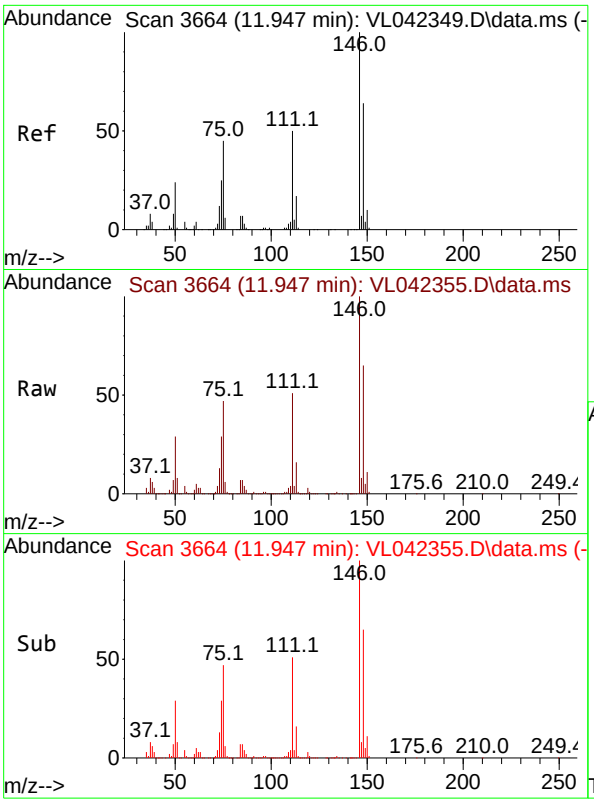


#76
1,4-Dichlorobenzene
Concen: 13.802 ppbv
RT: 11.672 min Scan# 3579
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion:146 Resp: 450662

Ion	Ratio	Lower	Upper
146	100		
111	47.4	24.2	72.6
148	62.6	32.1	96.5



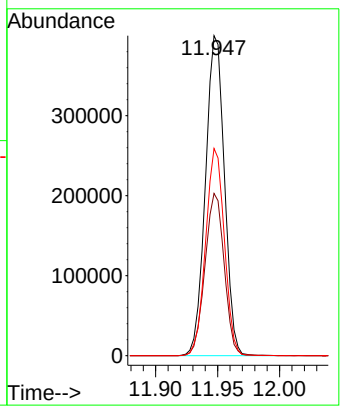


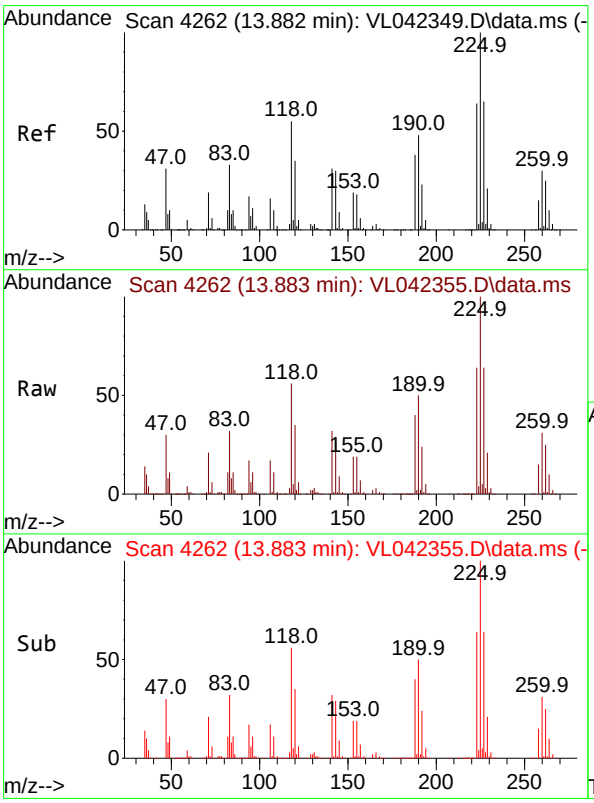
#77
1,2-Dichlorobenzene
Concen: 13.529 ppbv
RT: 11.947 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion:146 Resp: 427372

Ion	Ratio	Lower	Upper
146	100		
111	51.3	25.3	75.9
148	63.8	31.5	94.5

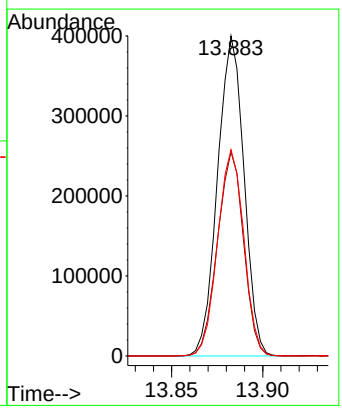


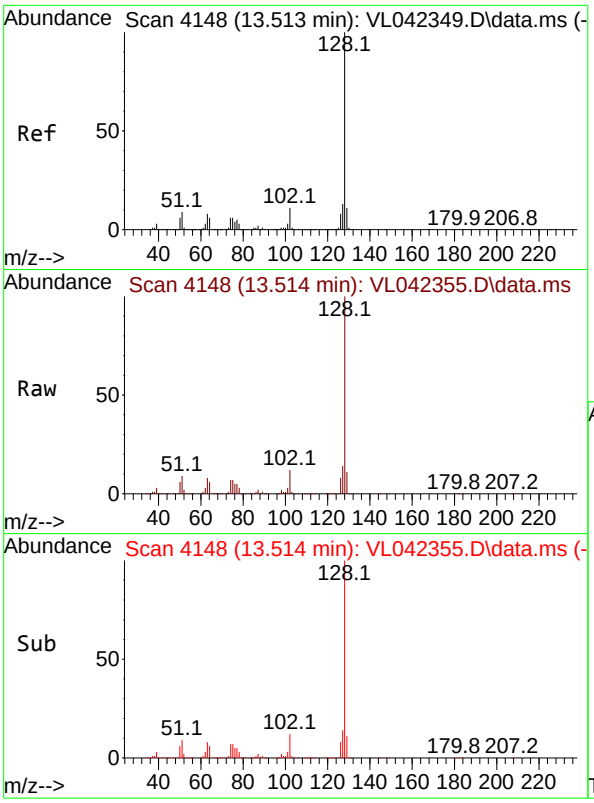


#78
Hexachloro-1,3-Butadiene
Concen: 12.679 ppbv
RT: 13.883 min Scan# 4262
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion:225 Resp: 404441

Ion	Ratio	Lower	Upper
225	100		
223	62.8	50.3	75.5
227	63.8	51.5	77.3



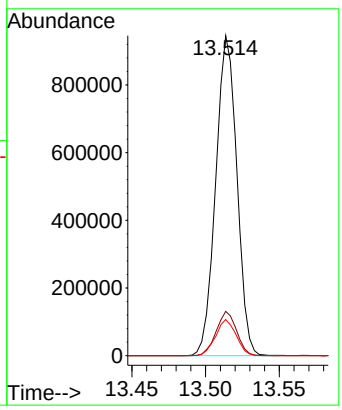


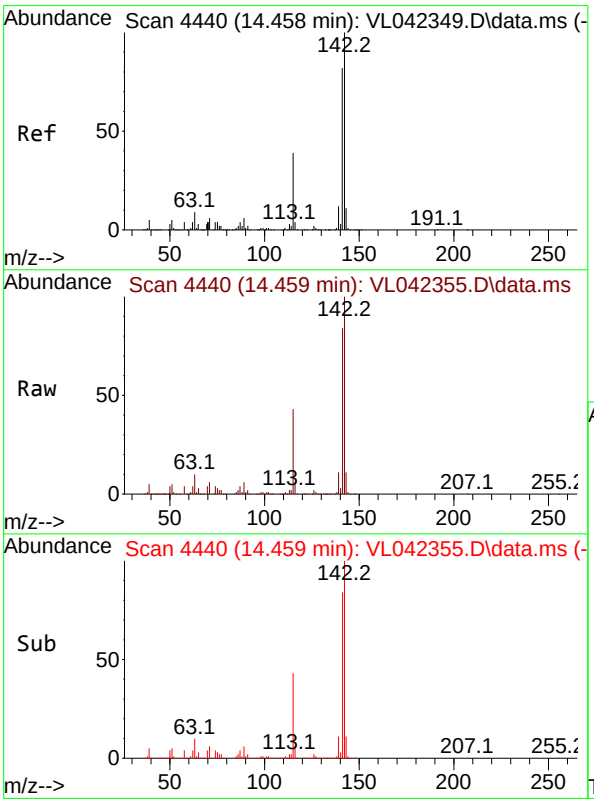
#79
Naphthalene
Concen: 12.632 ppbv
RT: 13.514 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion:128 Resp: 944085

Ion	Ratio	Lower	Upper
128	100		
127	13.9	10.6	15.8
129	11.3	8.6	12.8

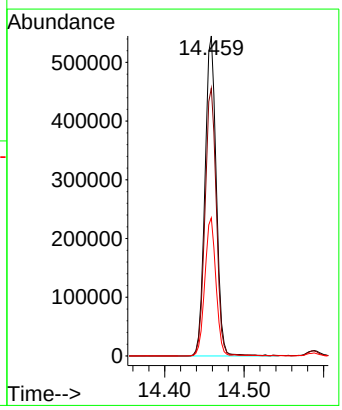


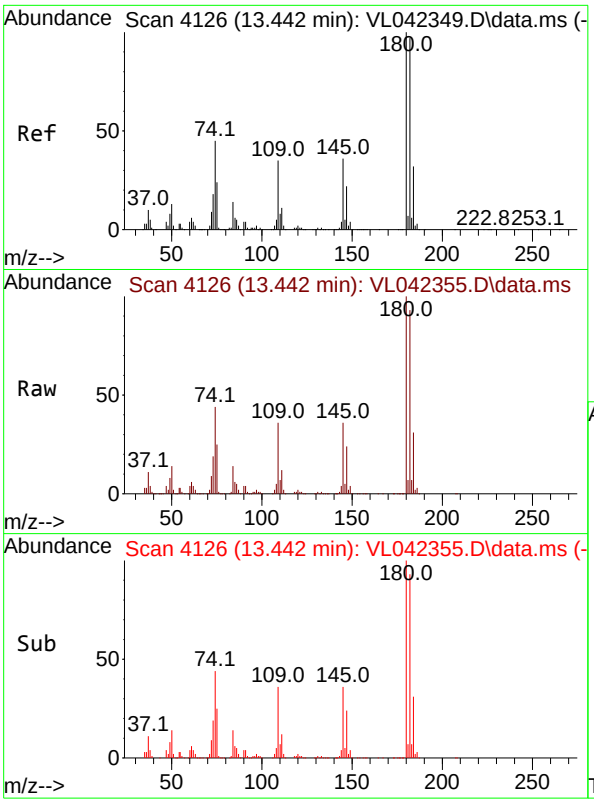


#80
Naphthalene,2-methyl-
Concen: 12.686 ppbv
RT: 14.459 min Scan# 4440
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion:142 Resp: 540339

Ion	Ratio	Lower	Upper
142	100		
141	84.3	66.8	100.2
115	43.0	33.4	50.2



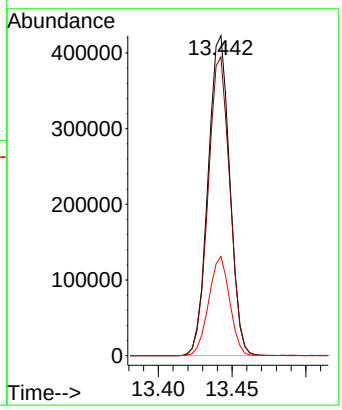


#81
1,2,4-Trichlorobenzene
Concen: 13.398 ppbv
RT: 13.442 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion:180 Resp: 429982

Ion	Ratio	Lower	Upper
180	100		
182	94.3	76.8	115.2
184	30.2	24.6	36.8



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042356.D
Acq On : 17 Apr 2025 13:43
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

Quant Time: Apr 18 02:15:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.787	49	113992	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.958	114	324528	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.881	117	305357	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	250149	9.969	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 99.700%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	197623	9.812	ppbv	100
3) Chlorodifluoromethane	1.476	51	191010	9.960	ppbv	99
4) Chloromethane	1.531	50	78080	9.796	ppbv	98
5) Vinyl Chloride	1.580	62	75628	8.717	ppbv	97
6) Bromomethane	1.667	94	35115	9.422	ppbv	84
7) Chloroethane	1.703	64	30158	9.612	ppbv	99
8) Dichlorotetrafluoroethane	1.554	85	172863	9.997	ppbv	98
9) Propene	1.482	41	84636	9.690	ppbv	95
10) Heptane	4.978	43	221840	9.041	ppbv	98
11) Trichlorofluoromethane	1.877	101	187827	9.807	ppbv	99
12) 1,1,2-Trichlorotrifluo...	2.140	101	148485	9.482	ppbv	100
13) Ethanol	1.722	45	4171	3.005	ppbv	97
14) Bromoethene	1.780	108	58320	9.880	ppbv	99
15) Acetone	1.835	43	158708	8.505	ppbv	100
16) 1,3-Butadiene	1.609	39	78804	8.829	ppbv	95
17) tert-Butyl alcohol	2.039	59	218954	9.468	ppbv	99
18) 1,1-Dichloroethene	2.033	96	67940	9.287	ppbv	94
19) Isopropyl Alcohol	1.887	45	96365	9.296	ppbv	95
20) Methylene Chloride	2.062	84	59203	8.101	ppbv	91
21) Allyl Chloride	2.094	41	120704	9.368	ppbv	98
22) trans-1,2-Dichloroethene	2.340	96	78070	9.373	ppbv	99
23) Vinyl Acetate	2.463	43	73373	9.714	ppbv	99
24) 1,1-Dichloroethane	2.408	63	155571	9.832	ppbv	100
25) Ethyl Acetate	2.835	43	449014	9.759	ppbv	99
26) Hexane	2.826	57	175752	9.439	ppbv	98
27) Carbon Disulfide	2.149	76	191117	9.587	ppbv	100
28) Methyl tert-Butyl Ether	2.441	73	115190	9.442	ppbv	94
29) Chloroform	2.848	83	260855	9.912	ppbv	98
30) Cyclohexane	3.855	84	148246	9.849	ppbv	99
31) cis-1,2-Dichloroethene	2.719	61	179993	10.167	ppbv	99
32) 1,1,1-Trichloroethane	3.369	97	276599	9.336	ppbv	98
34) 2-Butanone	2.557	43	248969	9.700	ppbv	99
35) Carbon Tetrachloride	3.764	117	271862	9.256	ppbv	98
36) Benzene	3.657	78	350545	10.014	ppbv	99
37) 1,2-Dichloroethane	3.217	62	211790	10.081	ppbv	99
38) Trichloroethene	4.551	130	139872	9.143	ppbv	96
39) 1,2-Dichloropropane	4.315	63	129239	9.908	ppbv	99
40) 1,4-Dioxane	4.583	88	61587	8.591	ppbv #	96
41) Tetrahydrofuran	3.052	42	141861	9.479	ppbv	99
42) Bromodichloromethane	4.489	83	296946	10.156	ppbv	96
43) Methyl Methacrylate	4.878	69	149209	9.458	ppbv	96
44) 2,2,4-Trimethylpentane	4.641	57	606376	10.030	ppbv	99
45) t-1,3-Dichloropropene	6.412	75	160750	9.975	ppbv	99

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042356.D
Acq On : 17 Apr 2025 13:43
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

Quant Time: Apr 18 02:15:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration

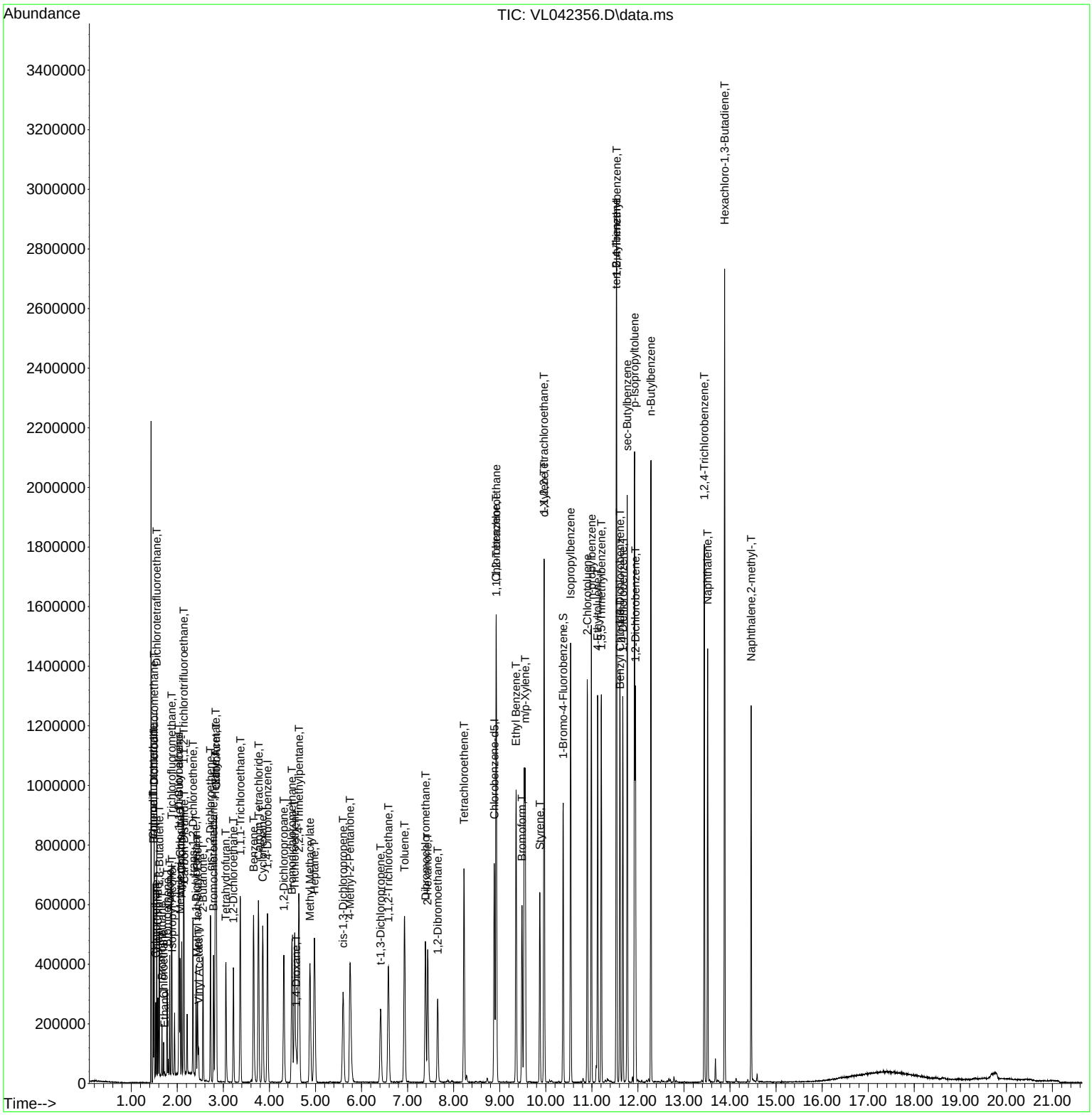
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) cis-1,3-Dichloropropene	5.599	75	200144	10.148	ppbv		88
47) 1,1,2-Trichloroethane	6.583	97	135575	10.202	ppbv		95
48) Dibromochloromethane	7.389	129	237206	10.103	ppbv		100
49) Bromoform	9.483	173	205630	10.016	ppbv		99
50) 4-Methyl-2-Pentanone	5.748	43	376145	8.819	ppbv		99
51) 2-Hexanone	7.435	43	310521	8.118	ppbv	#	99
52) Tetrachloroethene	8.224	164	119424	8.827	ppbv		94
53) Toluene	6.933	91	419462	9.986	ppbv		99
54) 1,2-Dibromoethane	7.652	107	186231	9.792	ppbv		98
56) 1,1,1,2-Tetrachloroethane	8.927	131	182712	9.886	ppbv		97
57) Chlorobenzene	8.920	112	304533	9.589	ppbv		96
58) Ethyl Benzene	9.354	91	583515	9.645	ppbv		99
59) m/p-Xylene	9.551	91	442744	9.084	ppbv	#	26
60) o-Xylene	9.966	91	464522	9.465	ppbv		99
61) Styrene	9.872	104	229869	9.813	ppbv		98
62) Isopropylbenzene	10.539	105	685965	9.520	ppbv		100
63) 1,1,2,2-Tetrachloroethane	9.962	83	279007	8.773	ppbv		100
64) n-propylbenzene	10.992	120	172654	9.533	ppbv		99
65) tert-Butylbenzene	11.532	119	609500	9.203	ppbv		93
66) Benzyl Chloride	11.613	91	63051	8.664	ppbv		95
67) sec-Butylbenzene	11.769	105	853807	9.268	ppbv		99
69) p-Isopropyltoluene	11.927	119	737861	9.220	ppbv		99
70) n-Butylbenzene	12.283	91	771461	9.255	ppbv		100
71) 2-Chlorotoluene	10.901	91	543794	9.622	ppbv		98
72) 4-Ethyltoluene	11.124	105	563136	9.385	ppbv		100
73) 1,3,5-Trimethylbenzene	11.205	105	486583	9.186	ppbv		99
74) 1,2,4-Trimethylbenzene	11.539	105	531576	8.592	ppbv		97
75) 1,3-Dichlorobenzene	11.610	146	297157	9.240	ppbv		99
76) 1,4-Dichlorobenzene	11.671	146	297697	9.210	ppbv		98
77) 1,2-Dichlorobenzene	11.950	146	289284	9.251	ppbv		100
78) Hexachloro-1,3-Butadiene	13.882	225	276960	8.771	ppbv		100
79) Naphthalene	13.513	128	647349	8.750	ppbv		99
80) Naphthalene,2-methyl-	14.458	142	350259	8.307	ppbv		99
81) 1,2,4-Trichlorobenzene	13.442	180	290260	9.136	ppbv		99

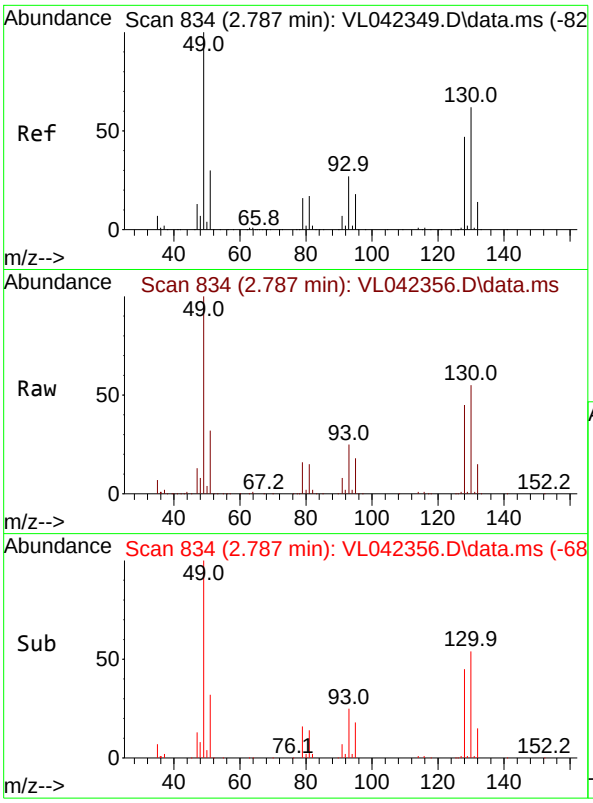
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042356.D
Acq On : 17 Apr 2025 13:43
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

Quant Time: Apr 18 02:15:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration



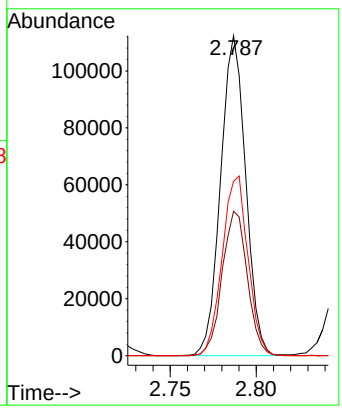


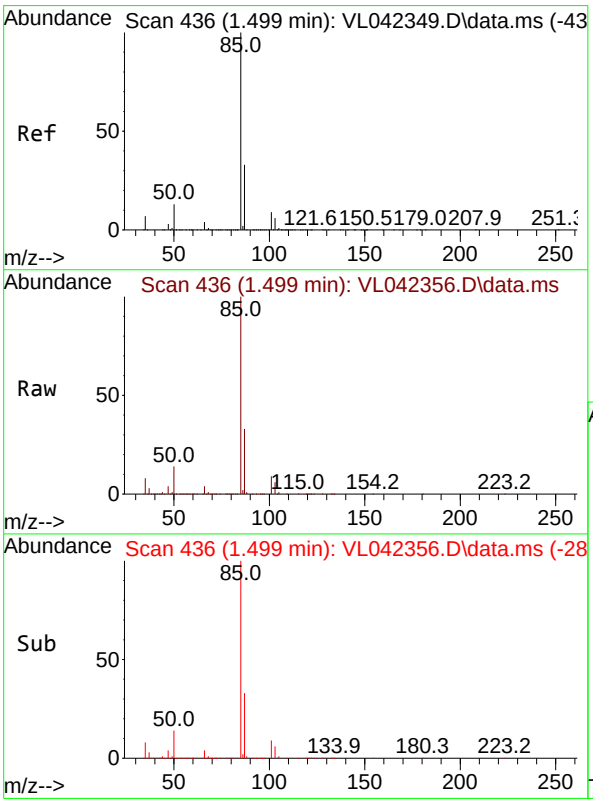
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

Tgt Ion: 49 Resp: 113992

Ion	Ratio	Lower	Upper
49	100		
128	45.5	22.8	68.4
130	57.8	29.3	88.0

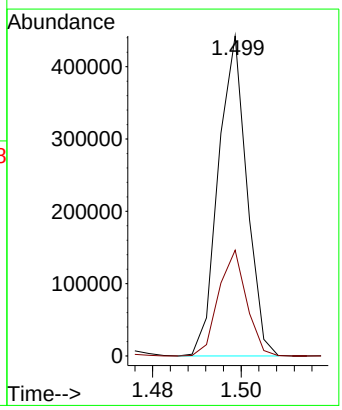


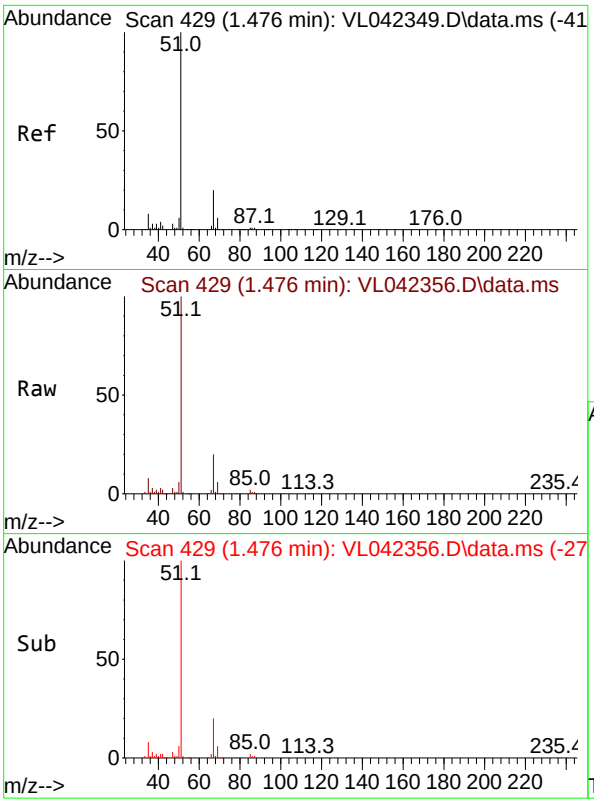


#2
Dichlorodifluoromethane
Concen: 9.812 ppbv
RT: 1.499 min Scan# 436
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 85 Resp: 197623

Ion	Ratio	Lower	Upper
85	100		
87	33.1	26.6	39.8



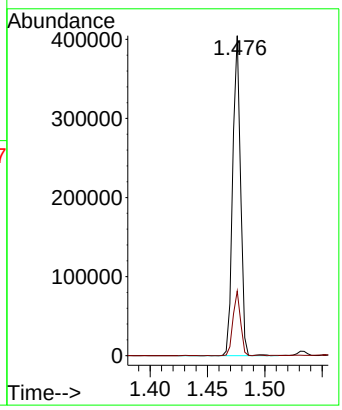


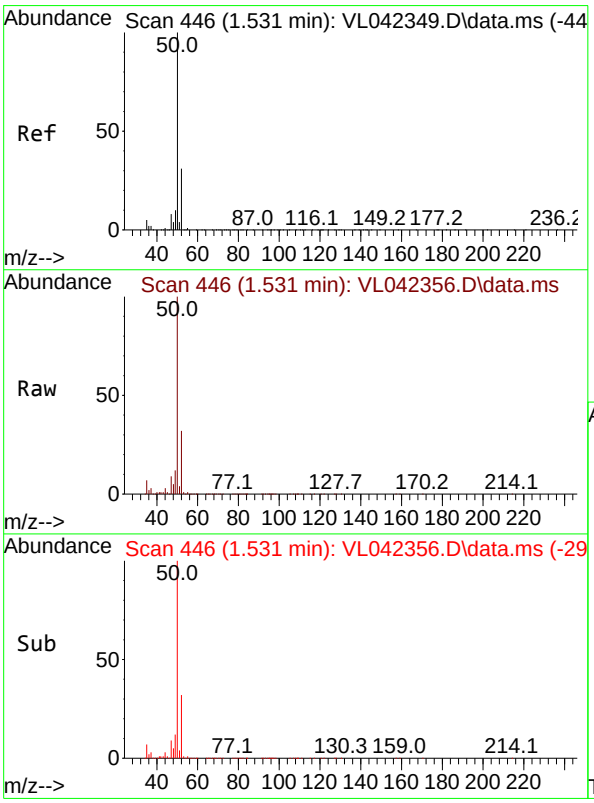
#3
Chlorodifluoromethane
Concen: 9.960 ppbv
RT: 1.476 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

Tgt Ion: 51 Resp: 191010

Ion	Ratio	Lower	Upper
51	100		
67	19.6	16.2	24.4

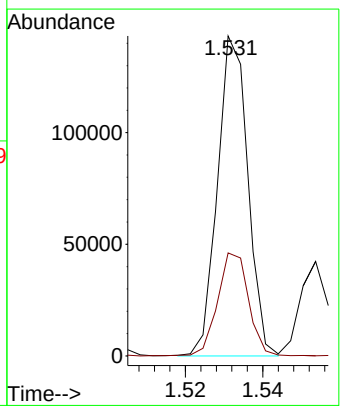


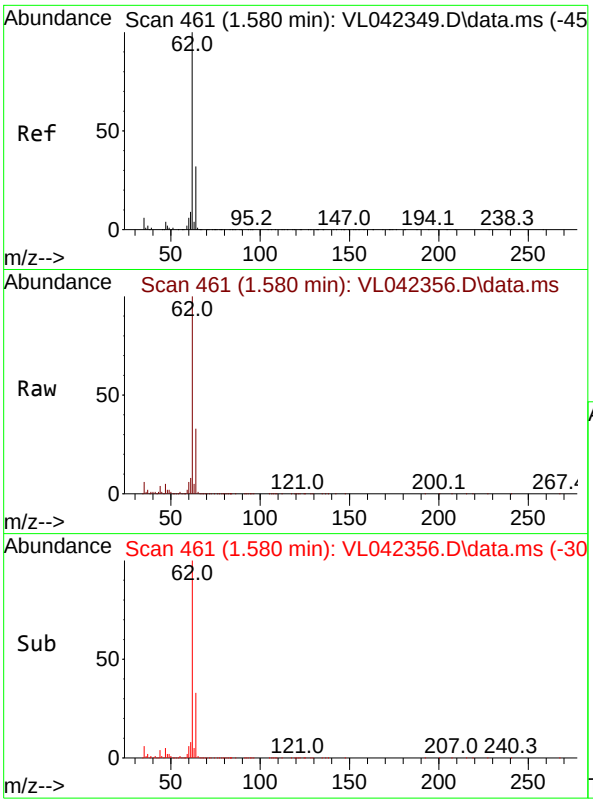


#4
Chloromethane
Concen: 9.796 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 50 Resp: 78080

Ion	Ratio	Lower	Upper
50	100		
52	32.0	24.7	37.1



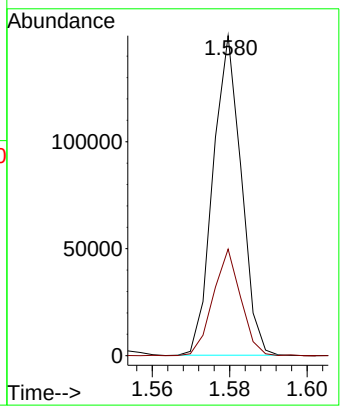


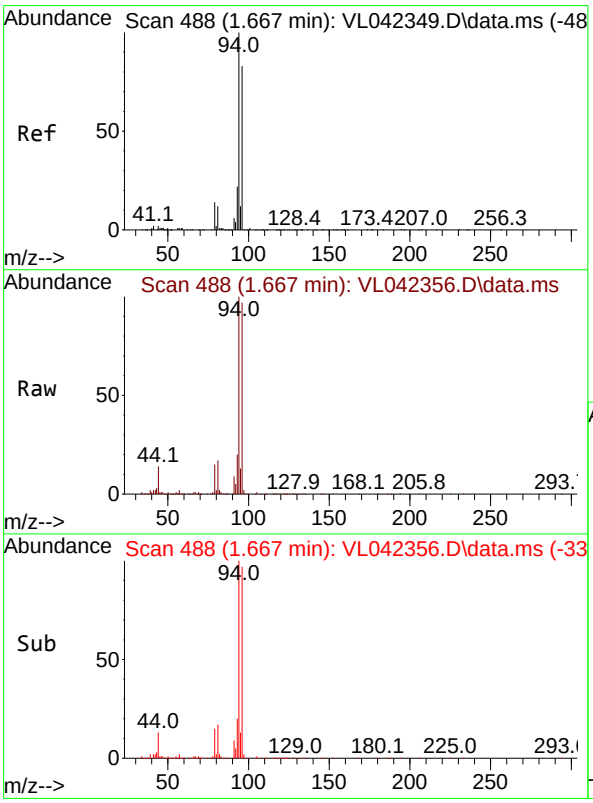
#5
Vinyl Chloride
Concen: 8.717 ppbv
RT: 1.580 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

Tgt Ion: 62 Resp: 75628

Ion	Ratio	Lower	Upper
62	100		
64	33.3	25.4	38.0

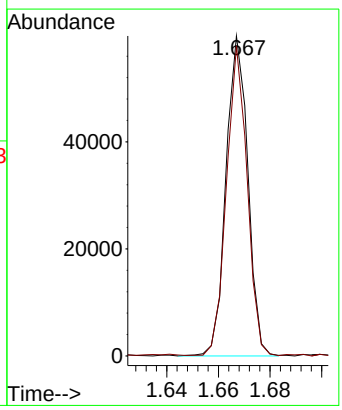


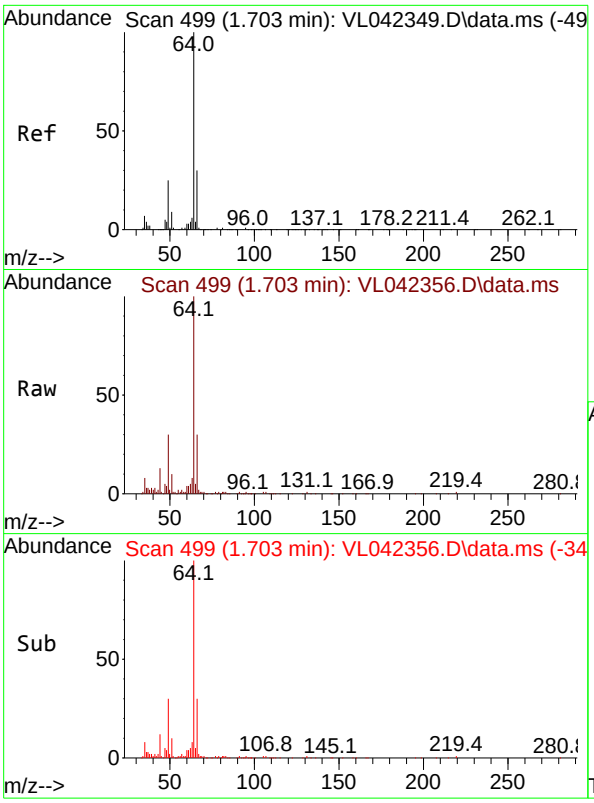


#6
Bromomethane
Concen: 9.422 ppbv
RT: 1.667 min Scan# 488
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 94 Resp: 35115

Ion	Ratio	Lower	Upper
94	100		
96	96.8	66.2	99.2



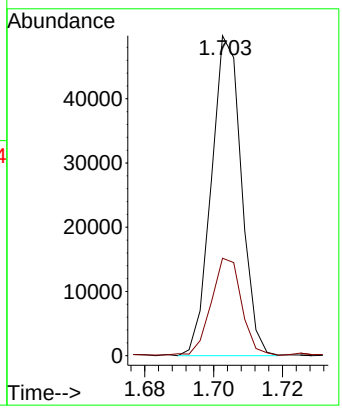


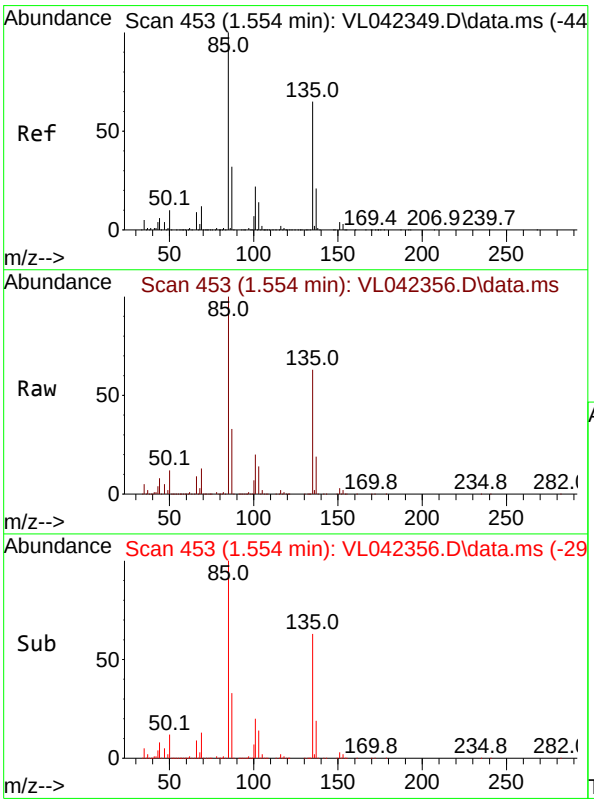
#7
Chloroethane
Concen: 9.612 ppbv
RT: 1.703 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

Tgt Ion: 64 Resp: 30158

Ion	Ratio	Lower	Upper
64	100		
66	30.4	24.6	37.0

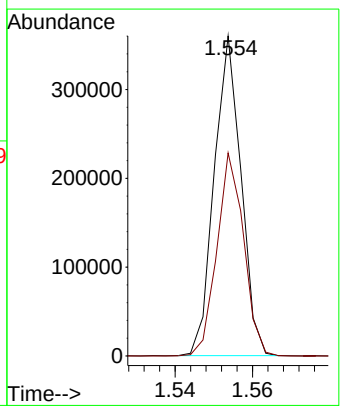


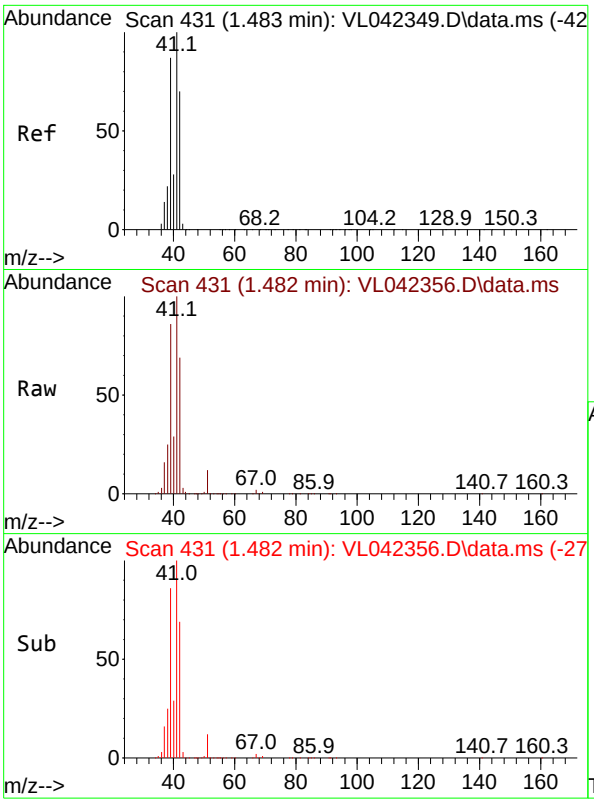


#8
Dichlorotetrafluoroethane
Concen: 9.997 ppbv
RT: 1.554 min Scan# 453
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 85 Resp: 172863

Ion	Ratio	Lower	Upper
85	100		
135	63.5	52.2	78.2



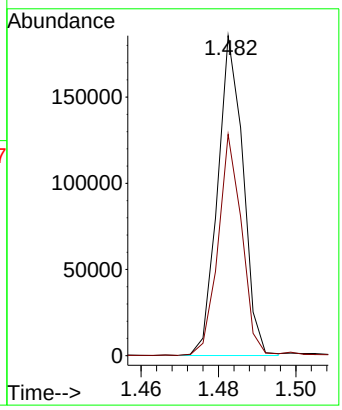


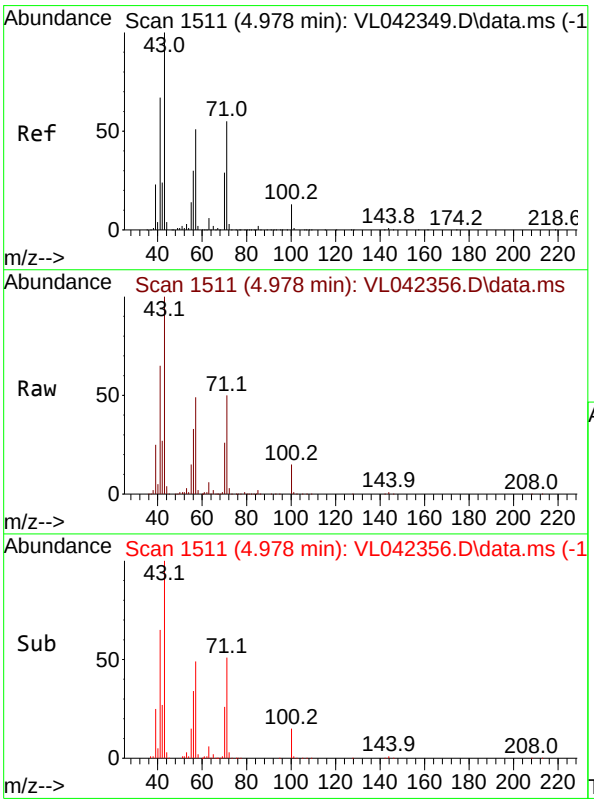
#9
Propene
Concen: 9.690 ppbv
RT: 1.482 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

Tgt Ion: 41 Resp: 84636

Ion	Ratio	Lower	Upper
41	100		
42	65.8	56.2	84.4

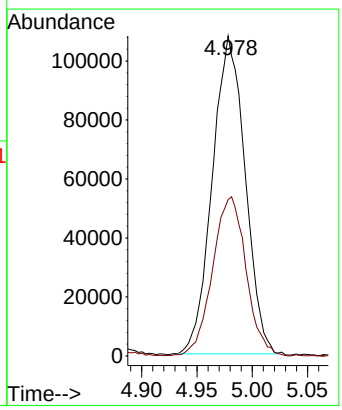


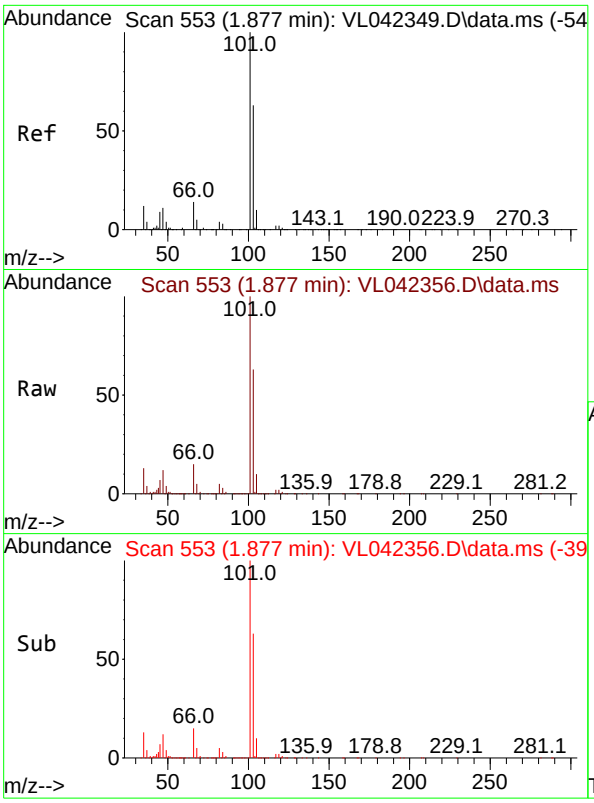


#10
Heptane
Concen: 9.041 ppbv
RT: 4.978 min Scan# 1511
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 43 Resp: 221840

Ion	Ratio	Lower	Upper
43	100		
57	51.4	39.9	59.9



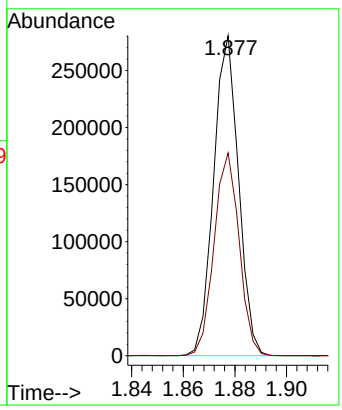


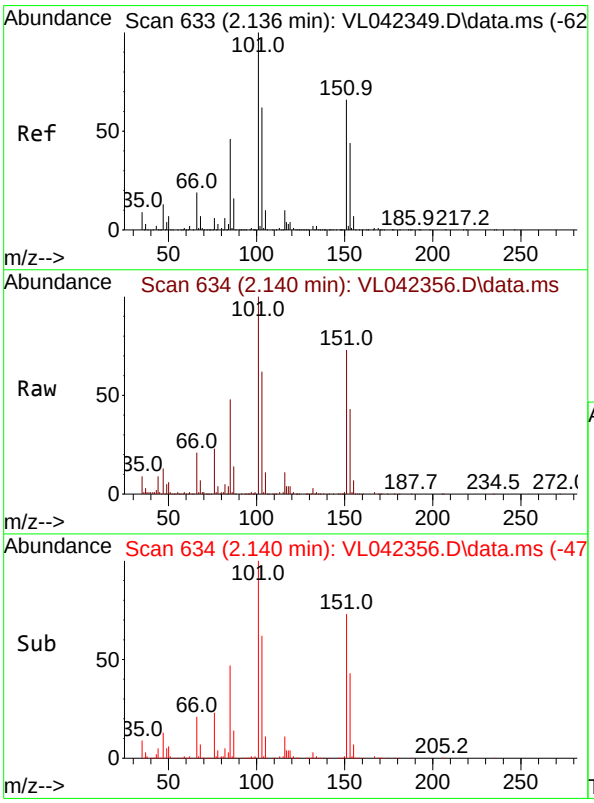
#11
Trichlorofluoromethane
Concen: 9.807 ppbv
RT: 1.877 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

Tgt Ion:101 Resp: 187827

Ion	Ratio	Lower	Upper
101	100		
103	63.3	50.1	75.1

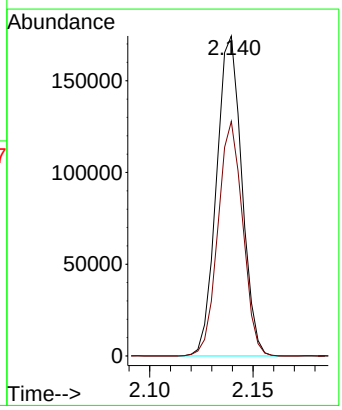


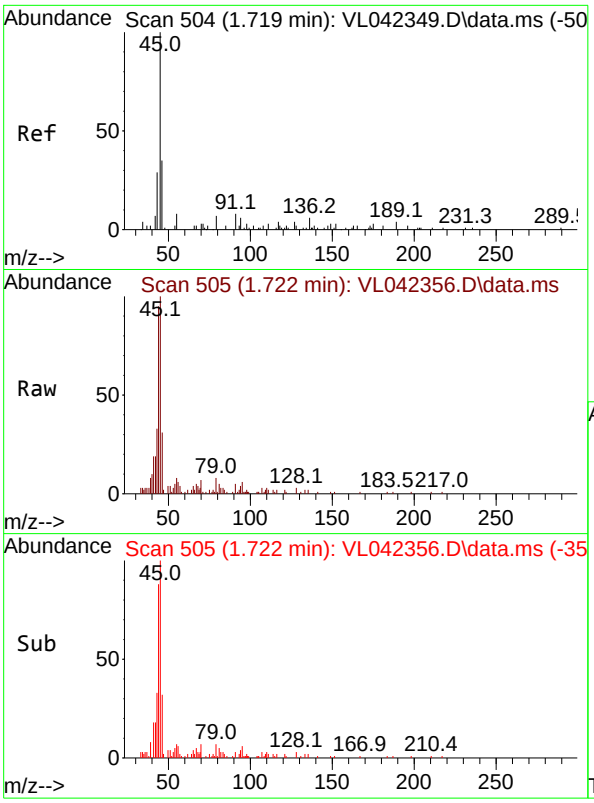


#12
1,1,2-Trichlorotrifluoroethane
Concen: 9.482 ppbv
RT: 2.140 min Scan# 634
Delta R.T. 0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion:101 Resp: 148485

Ion	Ratio	Lower	Upper
101	100		
151	71.7	57.0	85.6



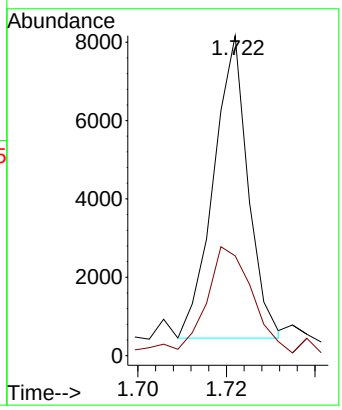


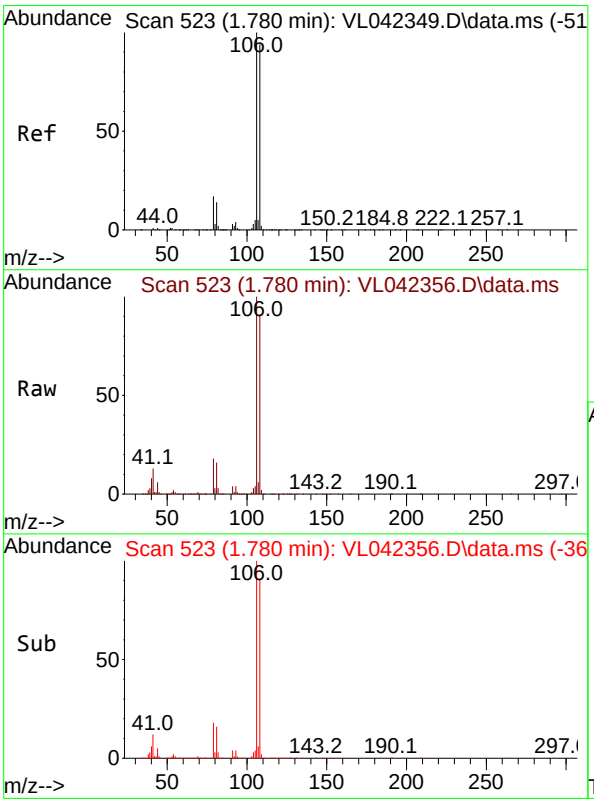
#13
Ethanol
Concen: 3.005 ppbv
RT: 1.722 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

Tgt Ion: 45 Resp: 4171

Ion	Ratio	Lower	Upper
45	100		
46	57.0	21.9	87.7

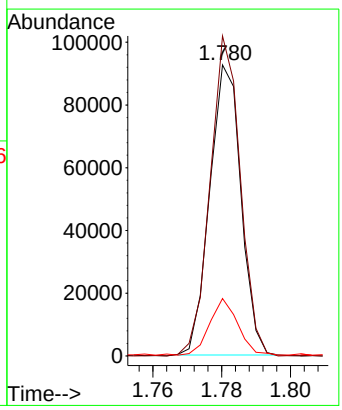


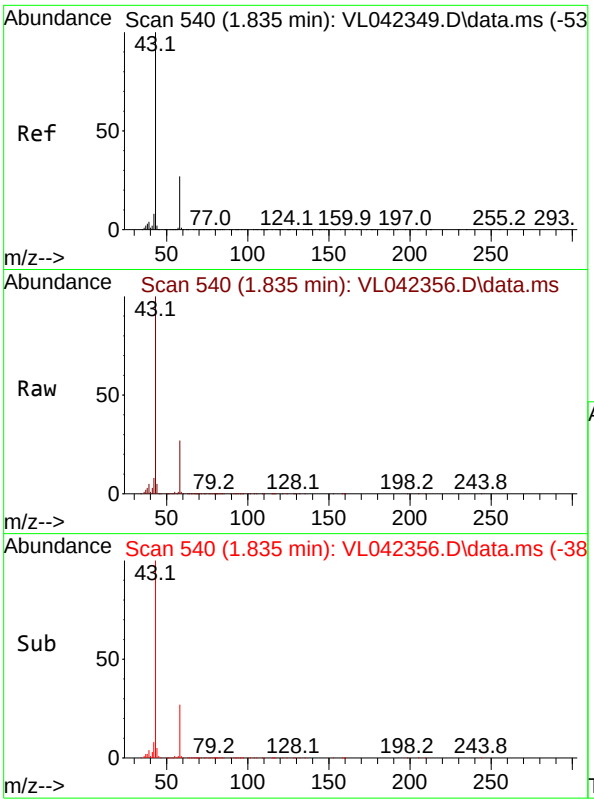


#14
Bromoethene
Concen: 9.880 ppbv
RT: 1.780 min Scan# 523
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion:108 Resp: 58320

Ion	Ratio	Lower	Upper
108	100		
106	107.1	85.9	128.9
79	18.4	13.9	20.9



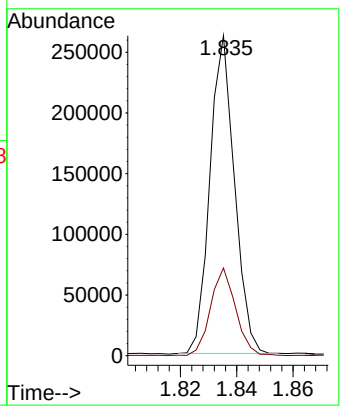


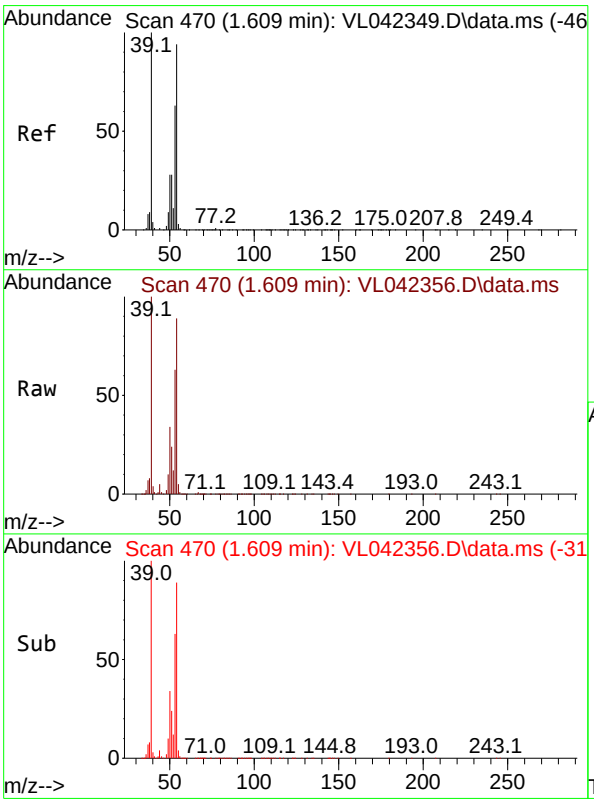
#15
Acetone
Concen: 8.505 ppbv
RT: 1.835 min Scan# 54
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

Tgt Ion: 43 Resp: 158708

Ion	Ratio	Lower	Upper
43	100		
58	28.0	22.4	33.6

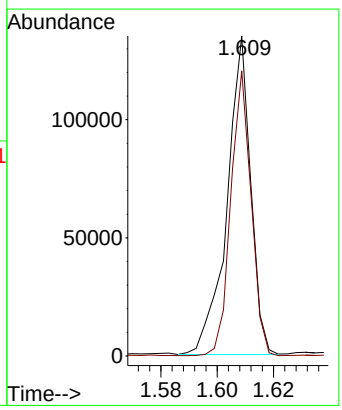


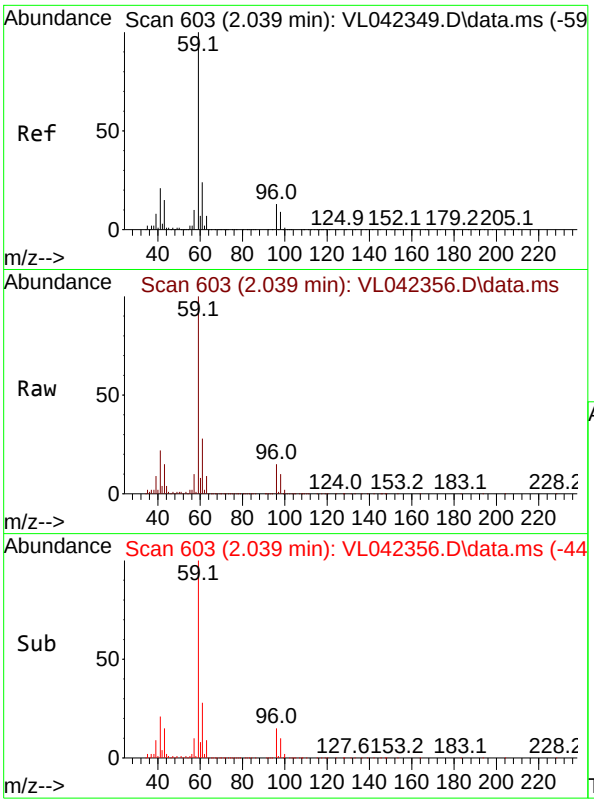


#16
1,3-Butadiene
Concen: 8.829 ppbv
RT: 1.609 min Scan# 470
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 39 Resp: 78804

Ion	Ratio	Lower	Upper
39	100		
54	77.1	64.9	97.3



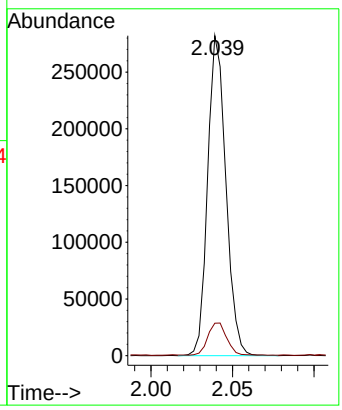


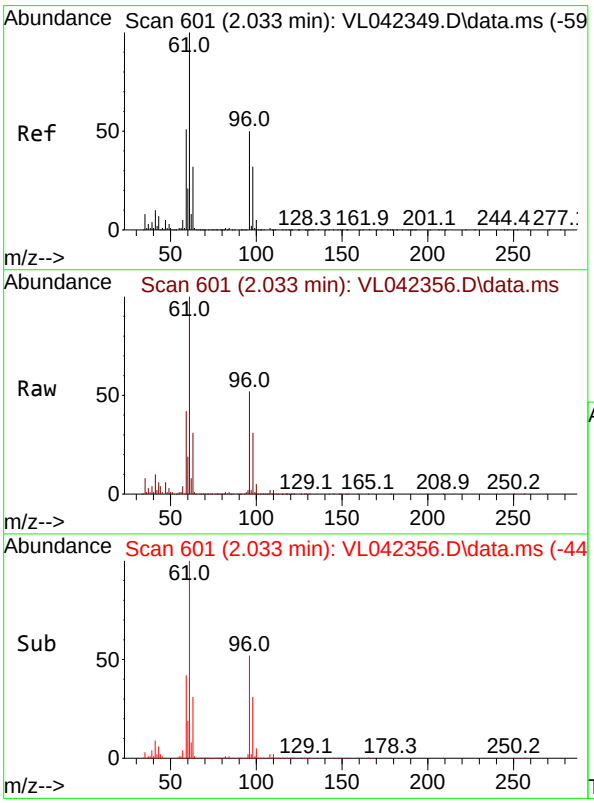
#17
tert-Butyl alcohol
Concen: 9.468 ppbv
RT: 2.039 min Scan# 6
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

Tgt Ion: 59 Resp: 218954

Ion	Ratio	Lower	Upper
59	100		
57	10.6	8.7	13.1

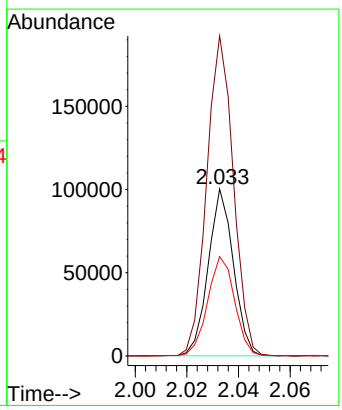


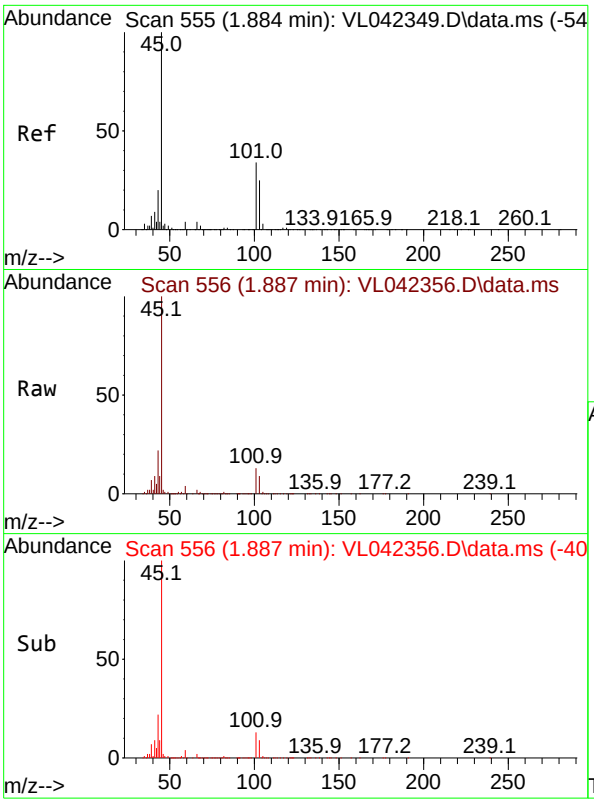


#18
1,1-Dichloroethene
Concen: 9.287 ppbv
RT: 2.033 min Scan# 601
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 96 Resp: 67940

Ion	Ratio	Lower	Upper
96	100		
61	191.6	160.2	240.2
98	59.4	51.0	76.4



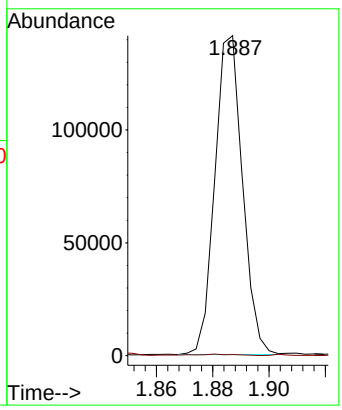


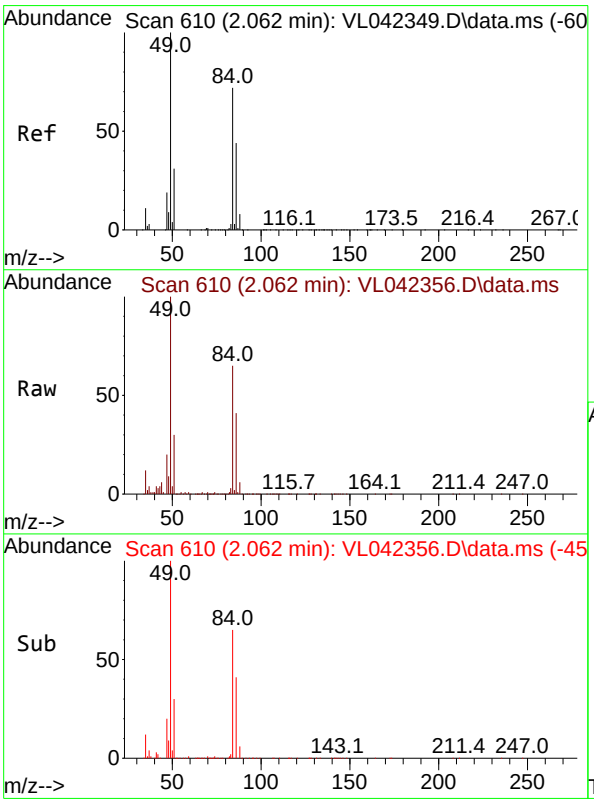
#19
Isopropyl Alcohol
Concen: 9.296 ppbv
RT: 1.887 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

Tgt Ion: 45 Resp: 96365

Ion	Ratio	Lower	Upper
45	100		
58	46.1	34.5	51.7

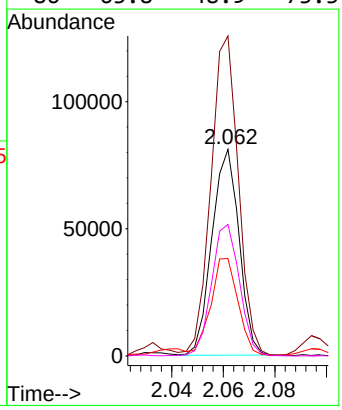


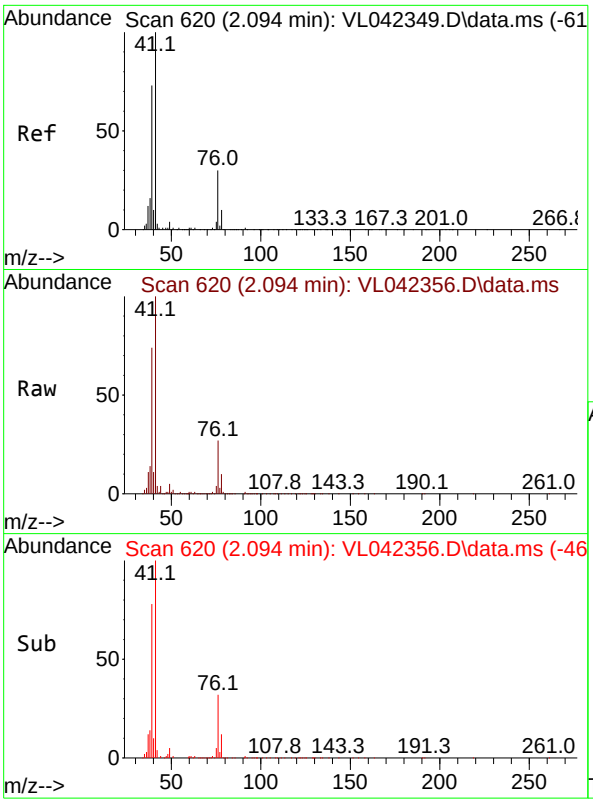


#20
Methylene Chloride
Concen: 8.101 ppbv
RT: 2.062 min Scan# 610
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 84 Resp: 59203

Ion	Ratio	Lower	Upper
84	100		
49	155.3	111.6	167.4
51	47.0	35.1	52.7
86	63.8	48.9	73.3



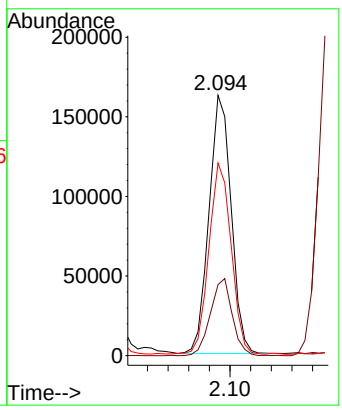


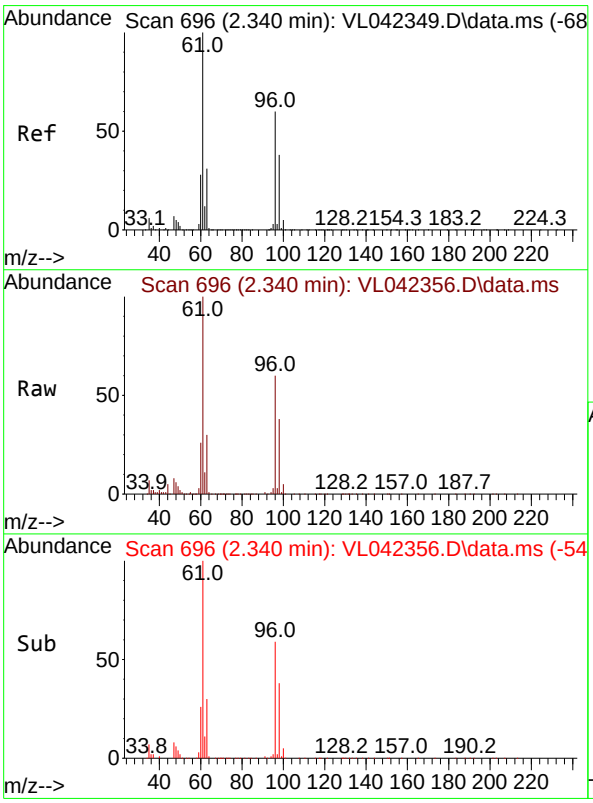
#21
Allyl Chloride
Concen: 9.368 ppbv
RT: 2.094 min Scan# 6
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

Tgt Ion: 41 Resp: 120704

Ion	Ratio	Lower	Upper
41	100		
76	29.5	24.8	37.2
39	74.5	60.6	90.8

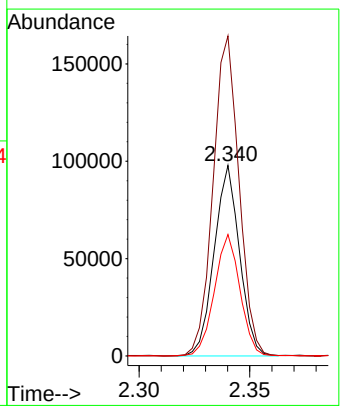


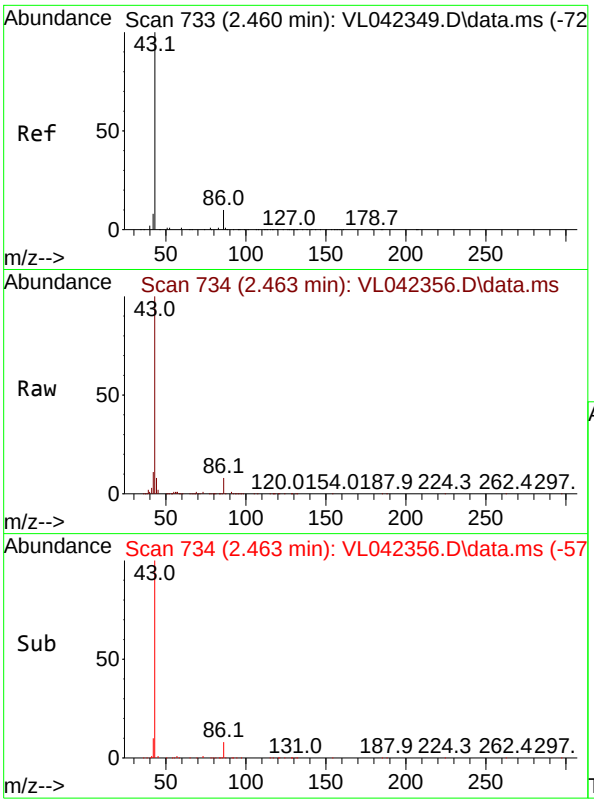


#22
trans-1,2-Dichloroethene
Concen: 9.373 ppbv
RT: 2.340 min Scan# 696
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 96 Resp: 78070

Ion	Ratio	Lower	Upper
96	100		
61	167.7	133.7	200.5
98	63.5	50.3	75.5



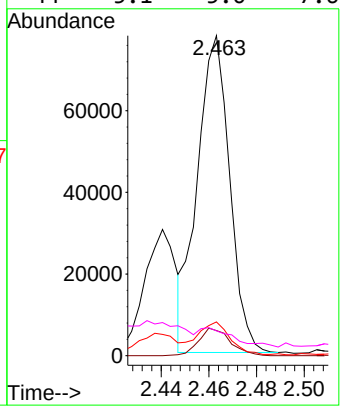


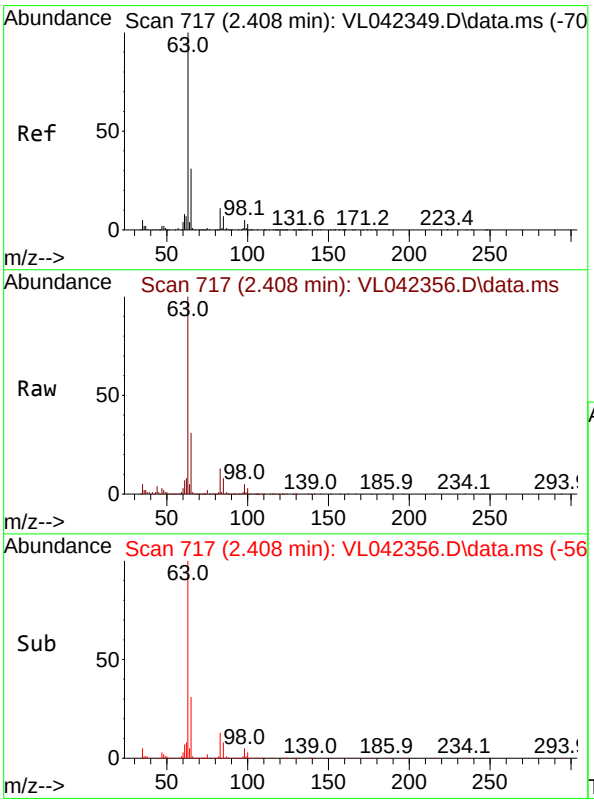
#23
Vinyl Acetate
Concen: 9.714 ppbv
RT: 2.463 min Scan# 7
Delta R.T. 0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

Tgt Ion: 43 Resp: 73373

Ion	Ratio	Lower	Upper
43	100		
86	8.0	6.5	9.7
42	10.0	7.8	11.8
44	5.1	5.0	7.6

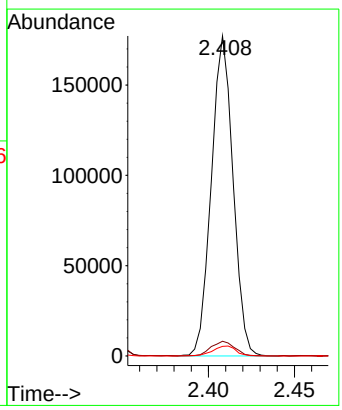


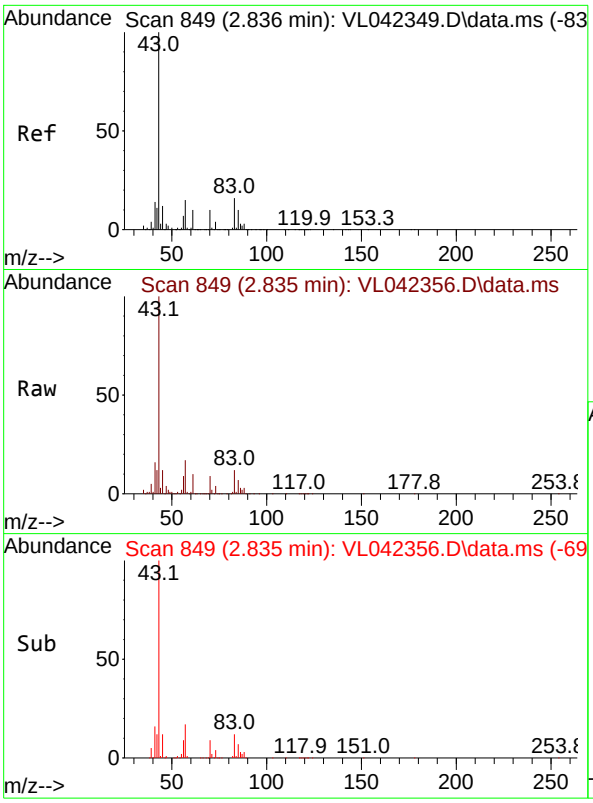


#24
1,1-Dichloroethane
Concen: 9.832 ppbv
RT: 2.408 min Scan# 717
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 63 Resp: 155571

Ion	Ratio	Lower	Upper
63	100		
98	4.6	2.3	6.8
100	3.0	1.6	4.8



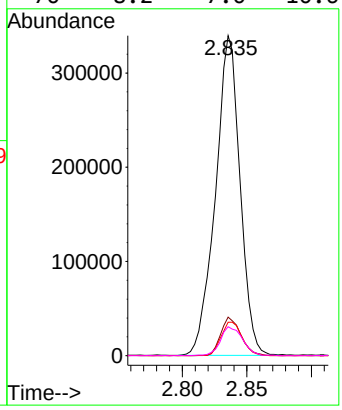


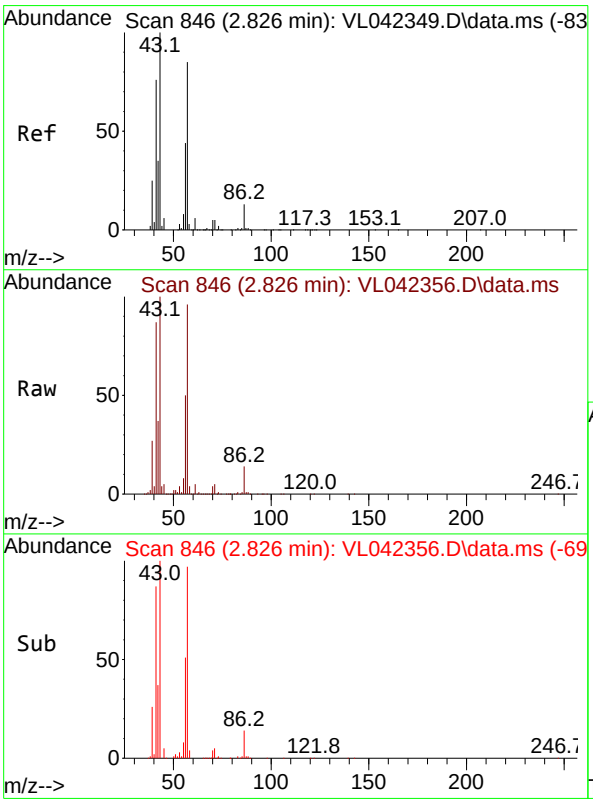
#25
Ethyl Acetate
Concen: 9.759 ppbv
RT: 2.835 min Scan# 84
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

Tgt Ion: 43 Resp: 449014

Ion	Ratio	Lower	Upper
43	100		
45	9.9	8.3	12.5
61	9.0	7.3	10.9
70	8.2	7.0	10.6

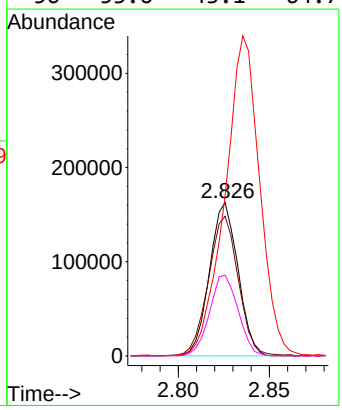


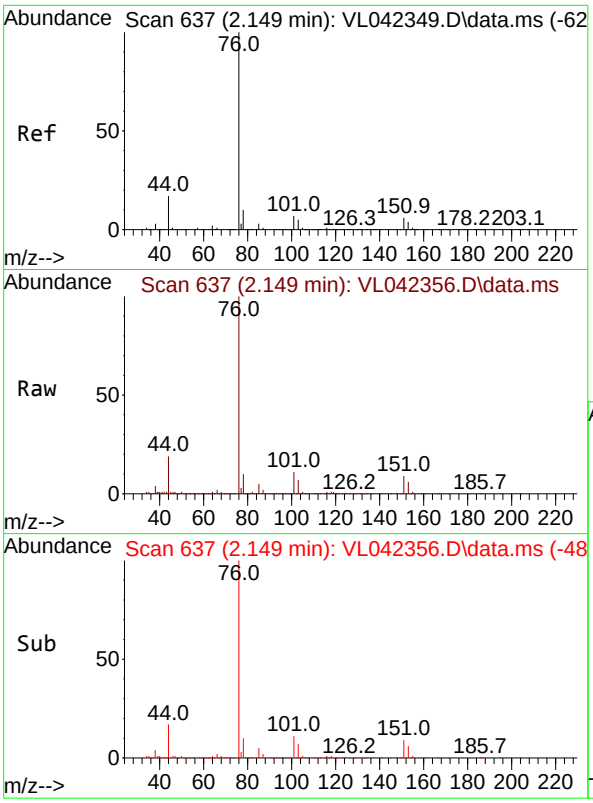


#26
Hexane
Concen: 9.439 ppbv
RT: 2.826 min Scan# 846
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 57 Resp: 175752

Ion	Ratio	Lower	Upper
57	100		
41	96.6	77.9	116.9
43	256.0	208.4	312.6
56	53.6	43.1	64.7



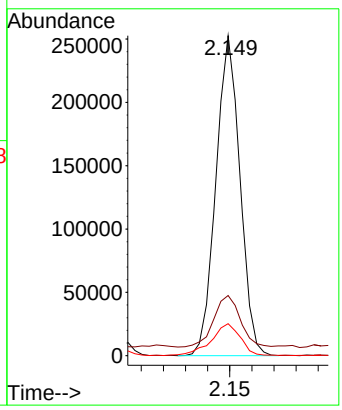


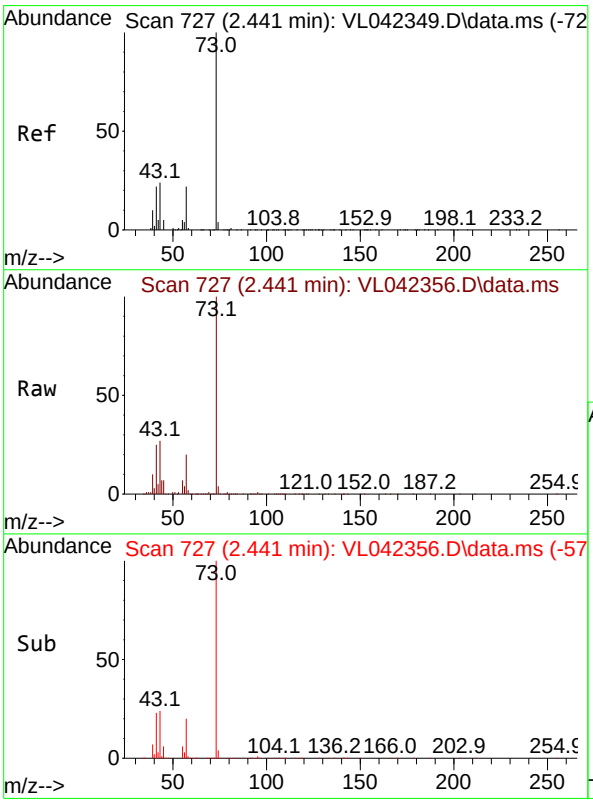
#27
Carbon Disulfide
Concen: 9.587 ppbv
RT: 2.149 min Scan# 6
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

Tgt Ion: 76 Resp: 191117

Ion	Ratio	Lower	Upper
76	100		
44	19.3	15.5	23.3
78	11.9	9.3	13.9

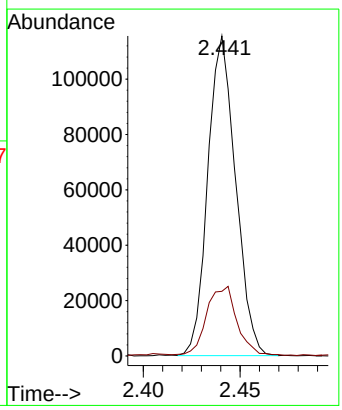


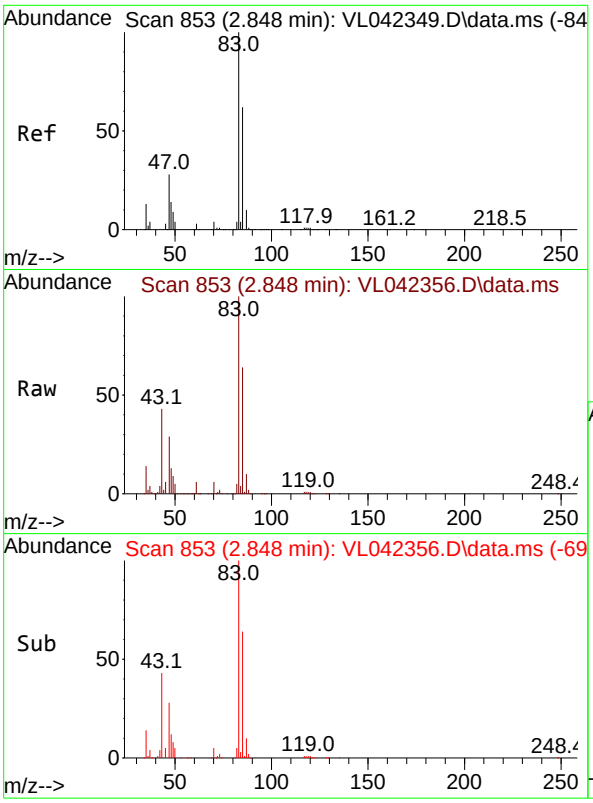


#28
Methyl tert-Butyl Ether
Concen: 9.442 ppbv
RT: 2.441 min Scan# 727
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 73 Resp: 115190

Ion	Ratio	Lower	Upper
73	100		
57	23.4	21.3	31.9



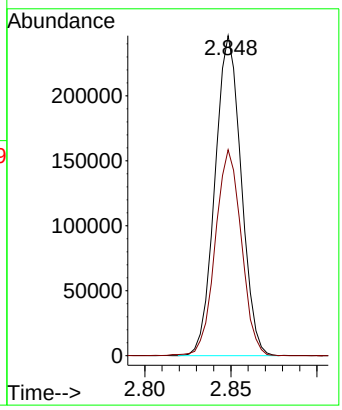


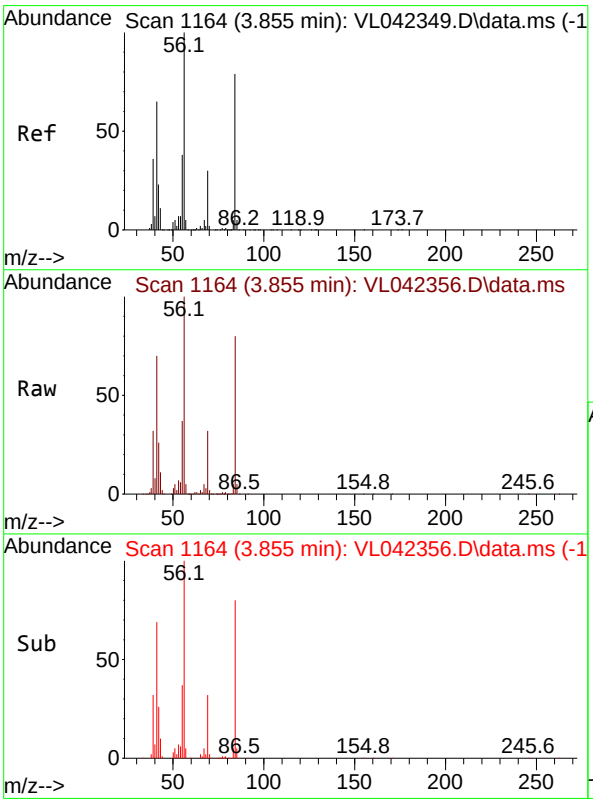
#29
Chloroform
Concen: 9.912 ppbv
RT: 2.848 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

Tgt Ion: 83 Resp: 260855

Ion	Ratio	Lower	Upper
83	100		
85	64.3	50.0	75.0

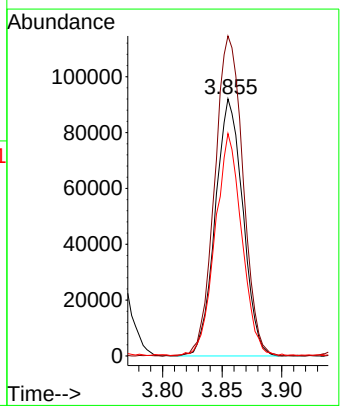


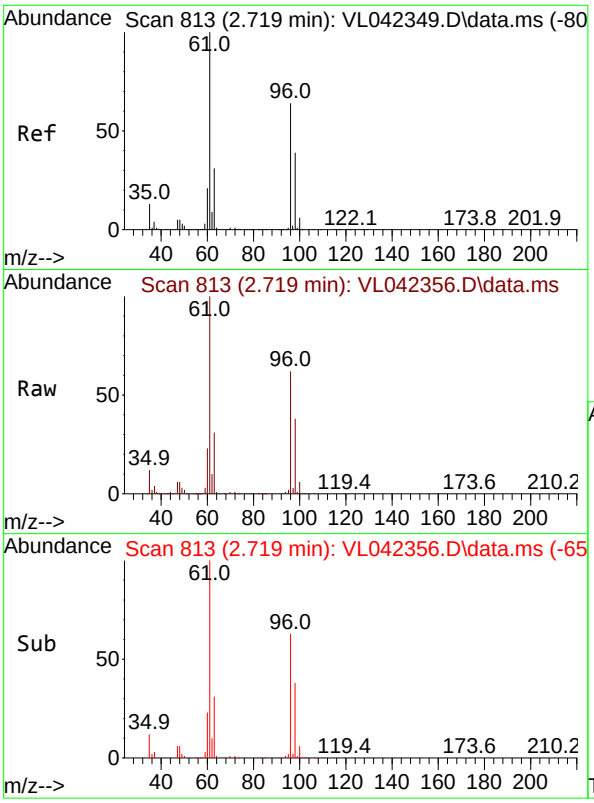


#30
Cyclohexane
Concen: 9.849 ppbv
RT: 3.855 min Scan# 1164
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 84 Resp: 148246

Ion	Ratio	Lower	Upper
84	100		
56	127.7	101.0	151.4
41	83.2	67.4	101.0



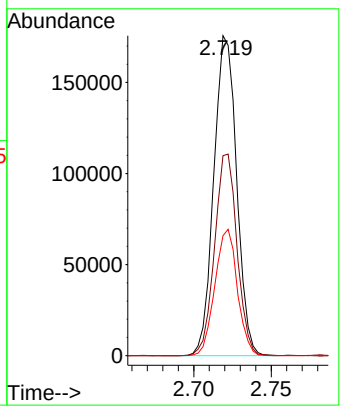


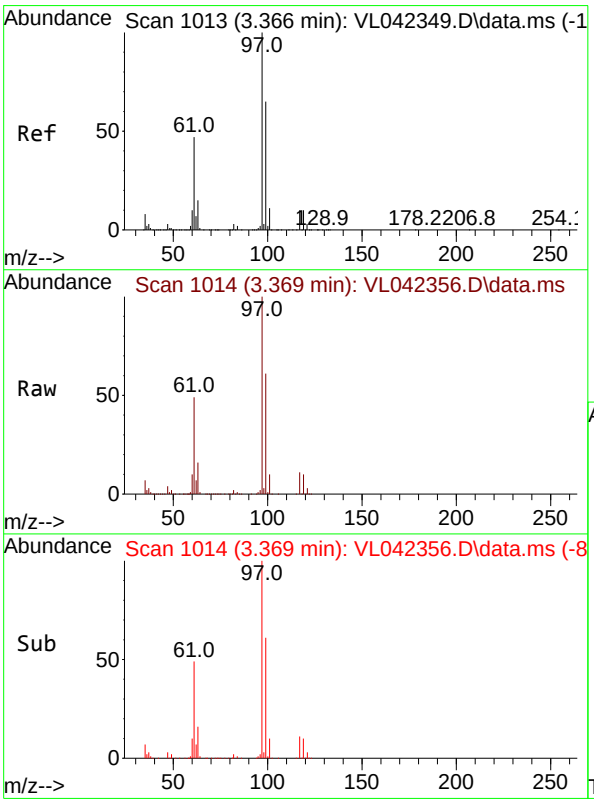
#31
cis-1,2-Dichloroethene
Concen: 10.167 ppbv
RT: 2.719 min Scan# 81
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

Tgt Ion: 61 Resp: 179993

Ion	Ratio	Lower	Upper
61	100		
96	62.5	50.8	76.2
98	37.5	30.9	46.3

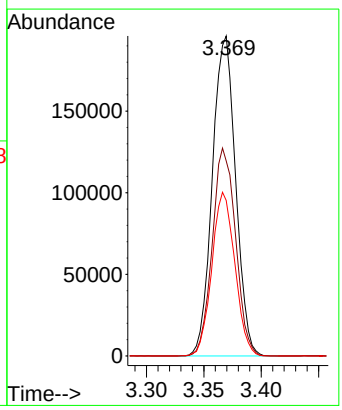


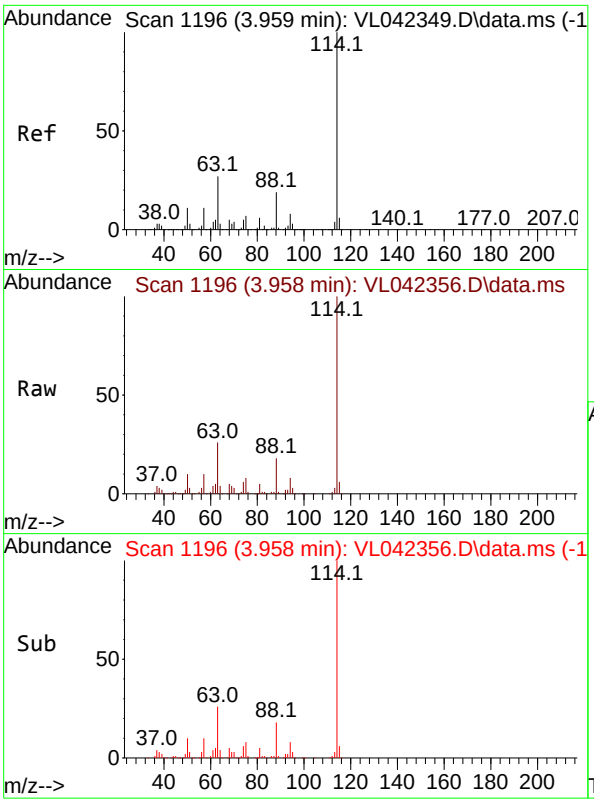


#32
1,1,1-Trichloroethane
Concen: 9.336 ppbv
RT: 3.369 min Scan# 1014
Delta R.T. 0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 97 Resp: 276599

Ion	Ratio	Lower	Upper
97	100		
99	65.0	51.0	76.4
61	50.7	38.8	58.2



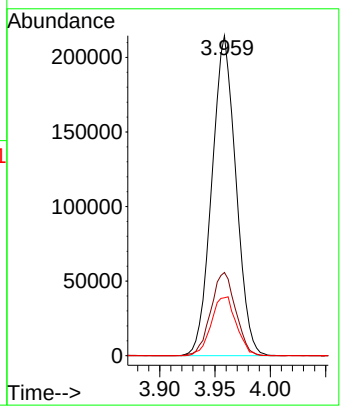


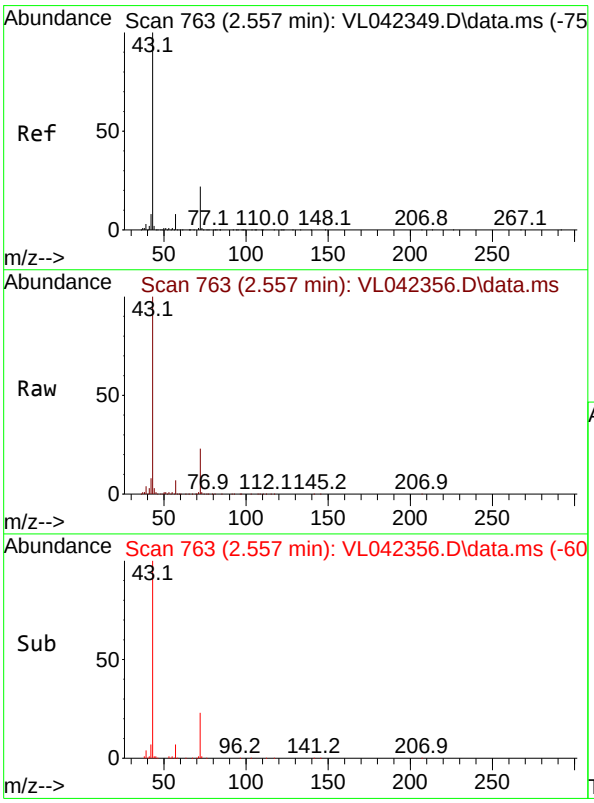
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.958 min Scan# 1
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

Tgt Ion:114 Resp: 324528

Ion	Ratio	Lower	Upper
114	100		
63	26.8	21.8	32.6
88	19.2	15.5	23.3

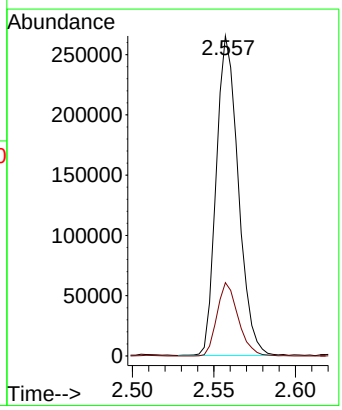


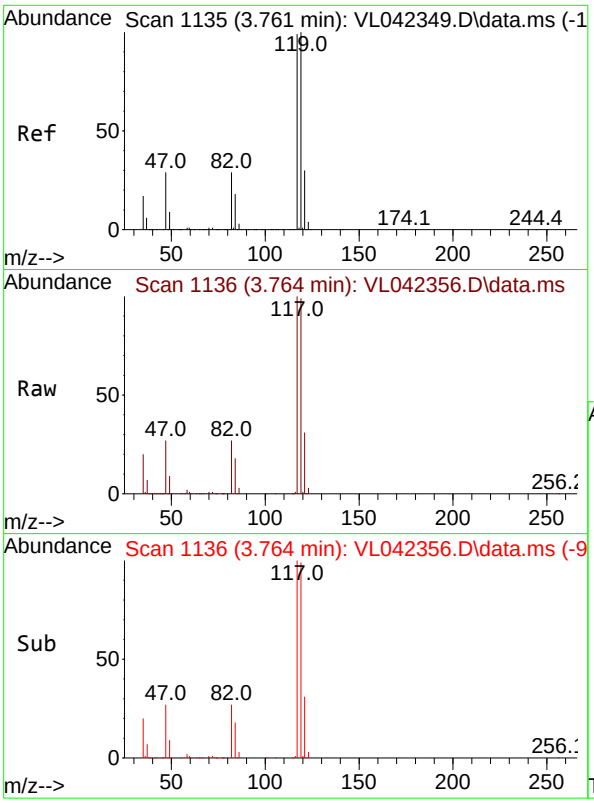


#34
2-Butanone
Concen: 9.700 ppbv
RT: 2.557 min Scan# 763
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 43 Resp: 248969

Ion	Ratio	Lower	Upper
43	100		
72	22.1	18.2	27.2



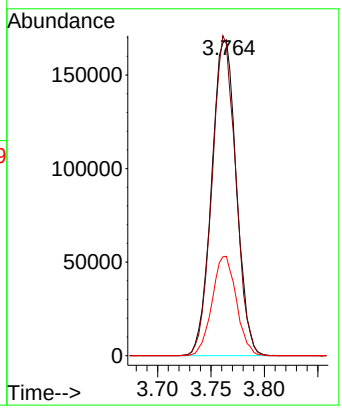


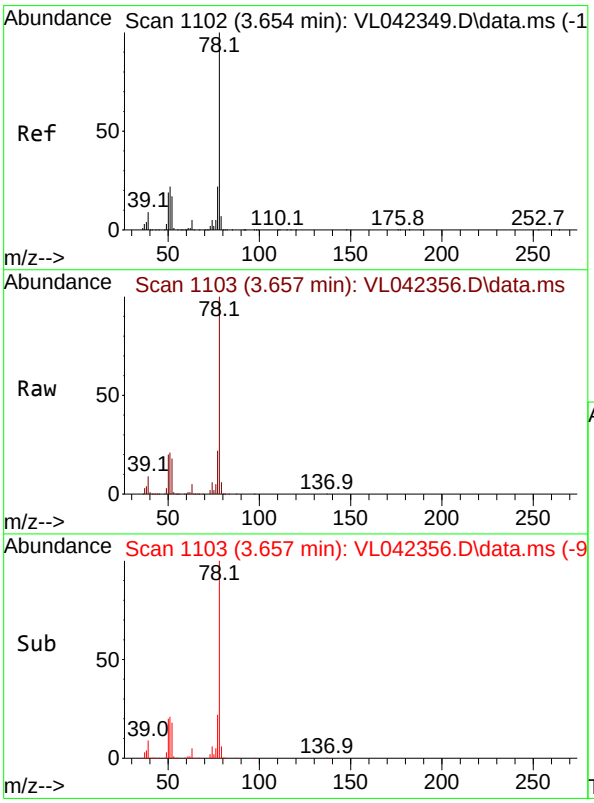
#35
Carbon Tetrachloride
Concen: 9.256 ppbv
RT: 3.764 min Scan# 11
Delta R.T. 0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

Tgt Ion:117 Resp: 271862

Ion	Ratio	Lower	Upper
117	100		
119	98.7	80.5	120.7
121	31.5	24.2	36.2

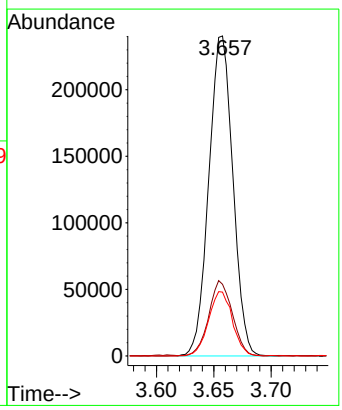


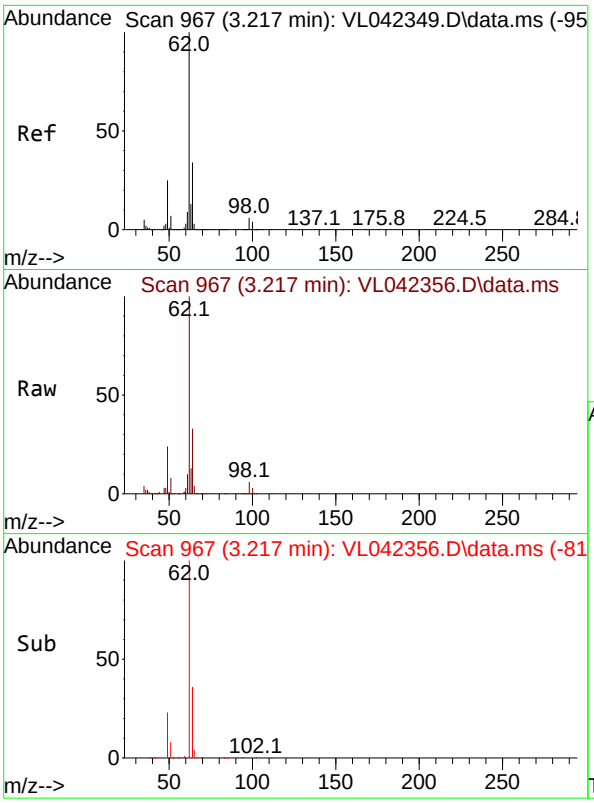


#36
Benzene
Concen: 10.014 ppbv
RT: 3.657 min Scan# 1103
Delta R.T. 0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 78 Resp: 350545

Ion	Ratio	Lower	Upper
78	100		
77	22.3	17.4	26.0
50	19.9	15.5	23.3



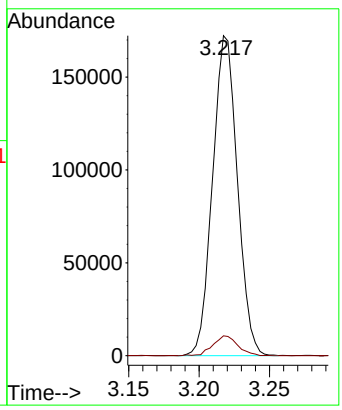


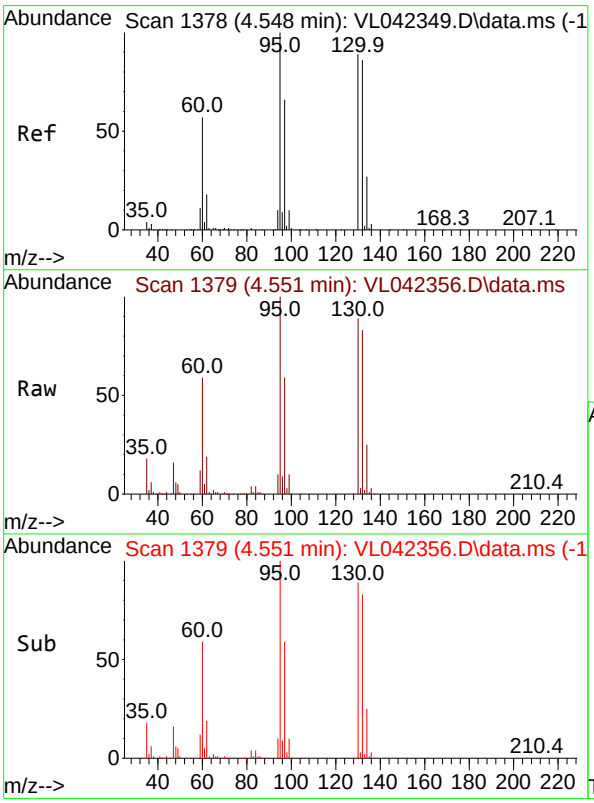
#37
1,2-Dichloroethane
Concen: 10.081 ppbv
RT: 3.217 min Scan# 9
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

Tgt Ion: 62 Resp: 211790

Ion	Ratio	Lower	Upper
62	100		
98	6.2	5.1	7.7

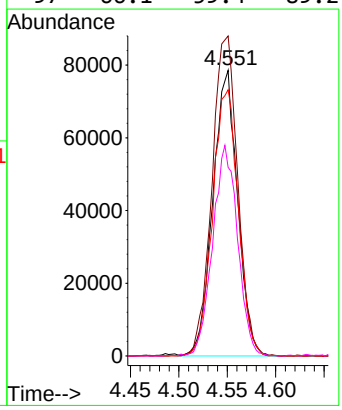


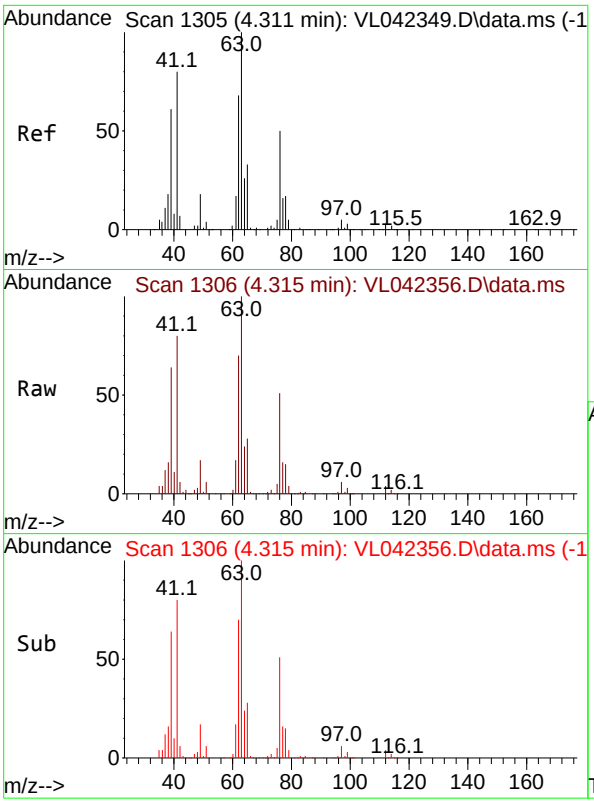


#38
Trichloroethene
Concen: 9.143 ppbv
RT: 4.551 min Scan# 1379
Delta R.T. 0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion:130 Resp: 139872

Ion	Ratio	Lower	Upper
130	100		
95	112.0	89.8	134.6
132	93.2	77.7	116.5
97	66.1	59.4	89.2



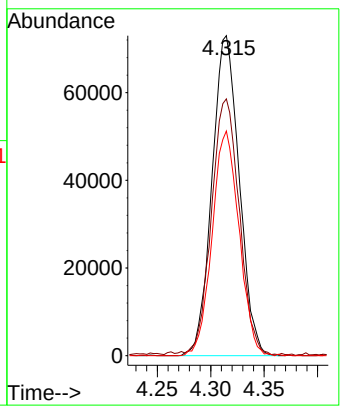


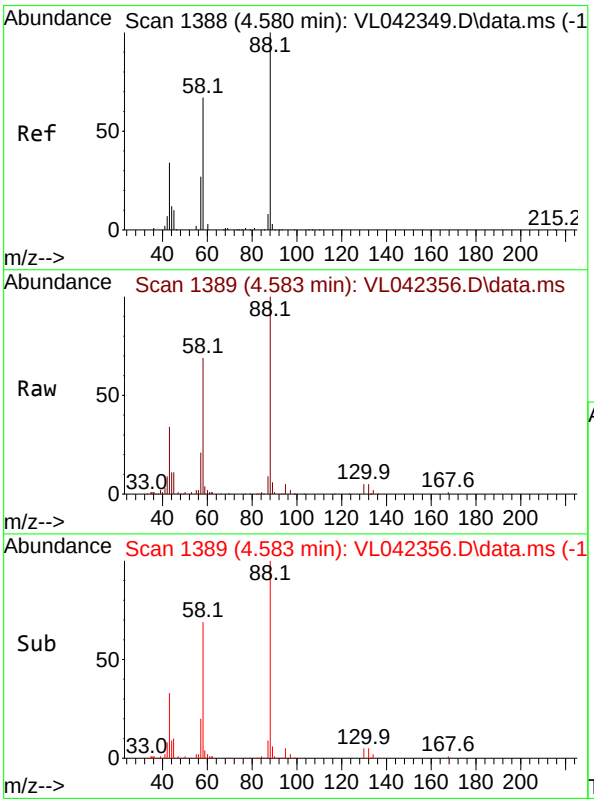
#39
1,2-Dichloropropane
Concen: 9.908 ppbv
RT: 4.315 min Scan# 1
Delta R.T. 0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

Tgt Ion: 63 Resp: 129239

Ion	Ratio	Lower	Upper
63	100		
41	79.9	64.2	96.2
62	70.2	54.3	81.5

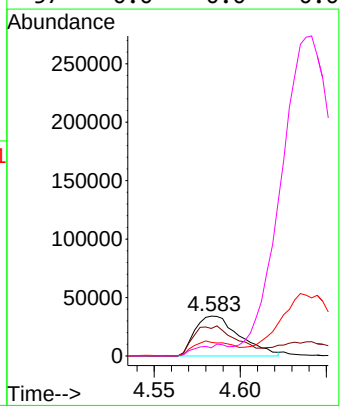


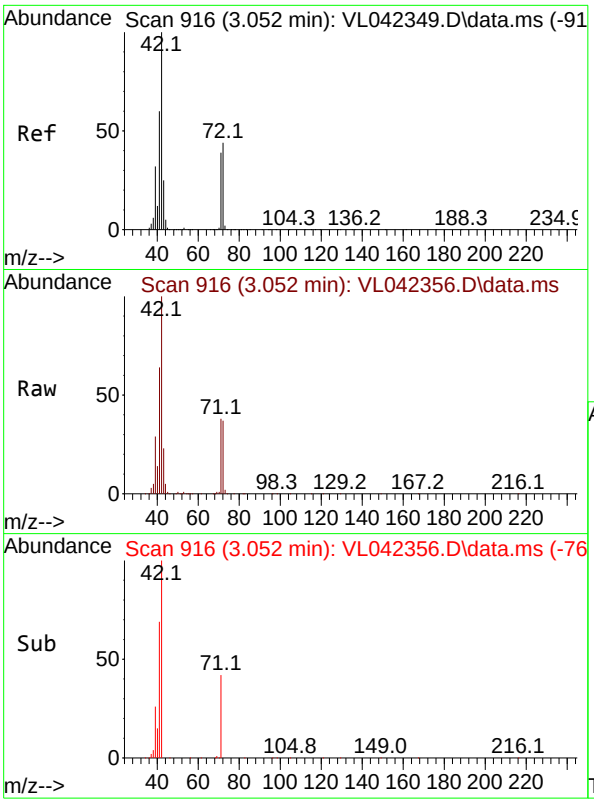


#40
1,4-Dioxane
Concen: 8.591 ppbv
RT: 4.583 min Scan# 1389
Delta R.T. 0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 88 Resp: 61587

Ion	Ratio	Lower	Upper
88	100		
58	76.1	61.4	92.0
43	35.9	23.2	34.8#
57	0.0	0.0	0.0



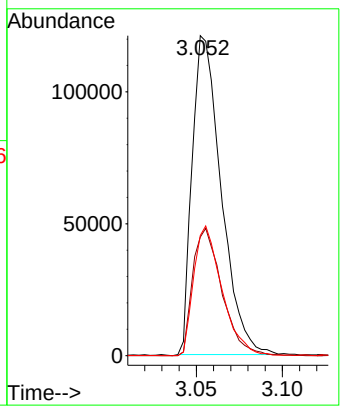


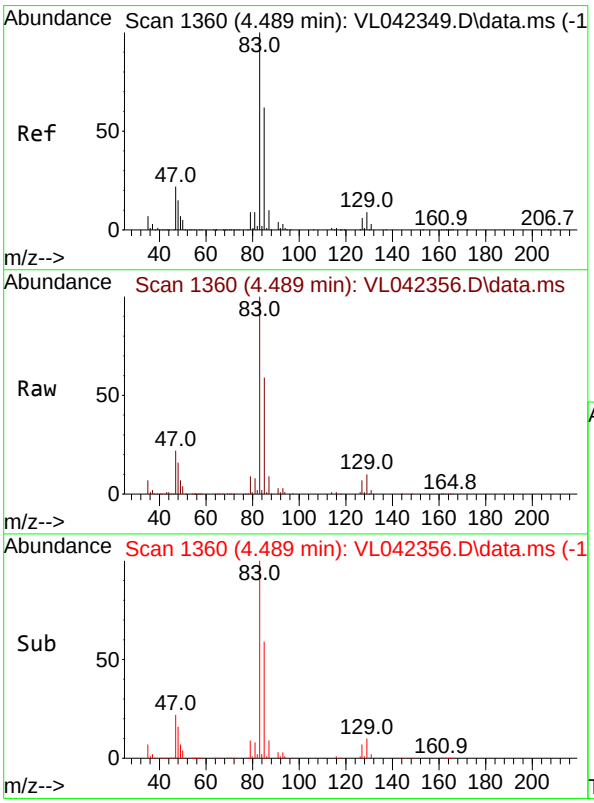
#41
Tetrahydrofuran
Concen: 9.479 ppbv
RT: 3.052 min Scan# 91
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

Tgt Ion: 42 Resp: 141861

Ion	Ratio	Lower	Upper
42	100		
72	40.2	32.3	48.5
71	39.8	31.4	47.2

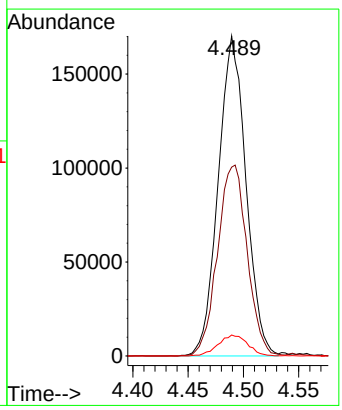


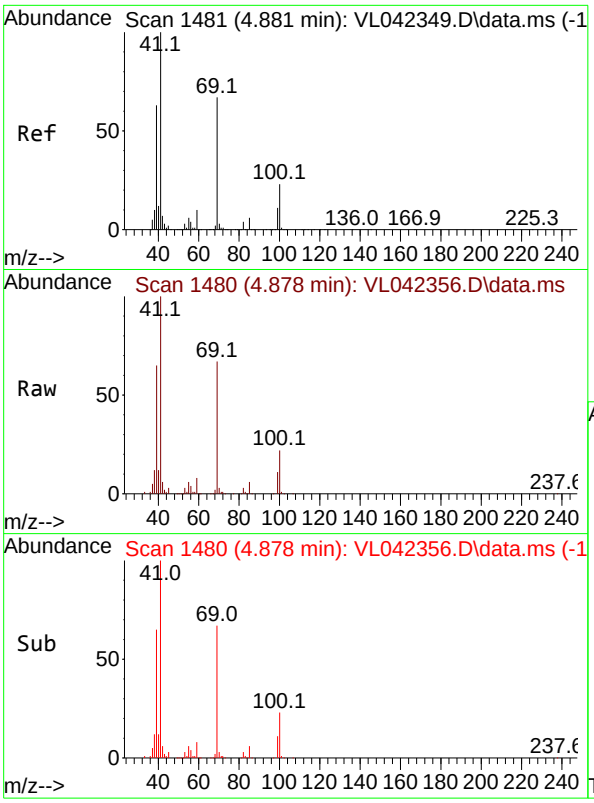


#42
Bromodichloromethane
Concen: 10.156 ppbv
RT: 4.489 min Scan# 1360
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 83 Resp: 296946

Ion	Ratio	Lower	Upper
83	100		
85	59.0	49.7	74.5
127	6.6	5.1	7.7



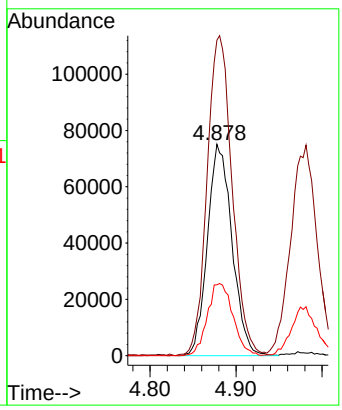


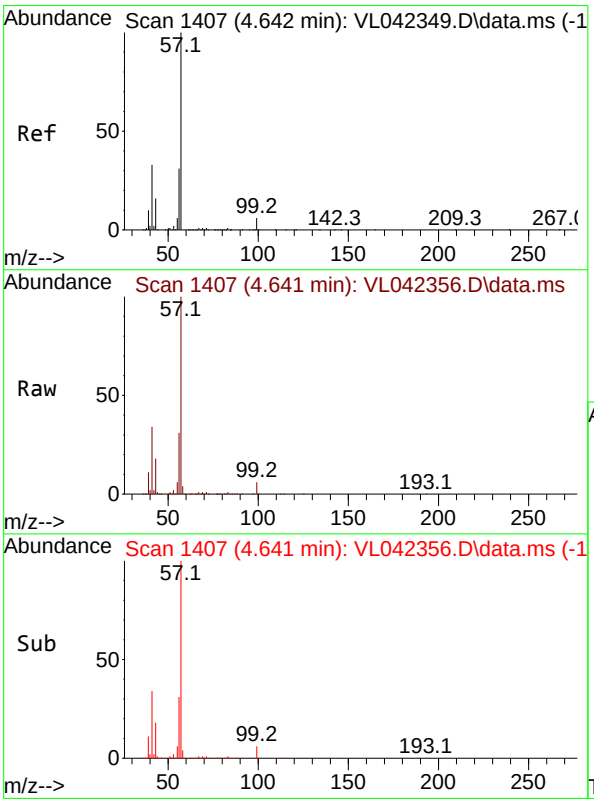
#43
Methyl Methacrylate
Concen: 9.458 ppbv
RT: 4.878 min Scan# 14
Delta R.T. -0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

Tgt Ion: 69 Resp: 149209

Ion	Ratio	Lower	Upper
69	100		
41	154.1	118.6	177.8
100	35.5	28.2	42.2

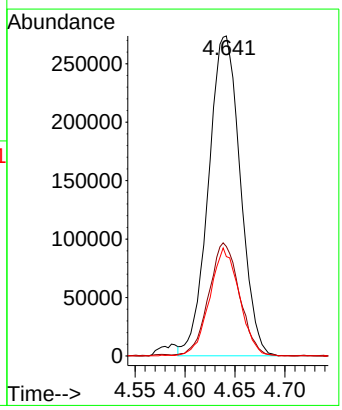


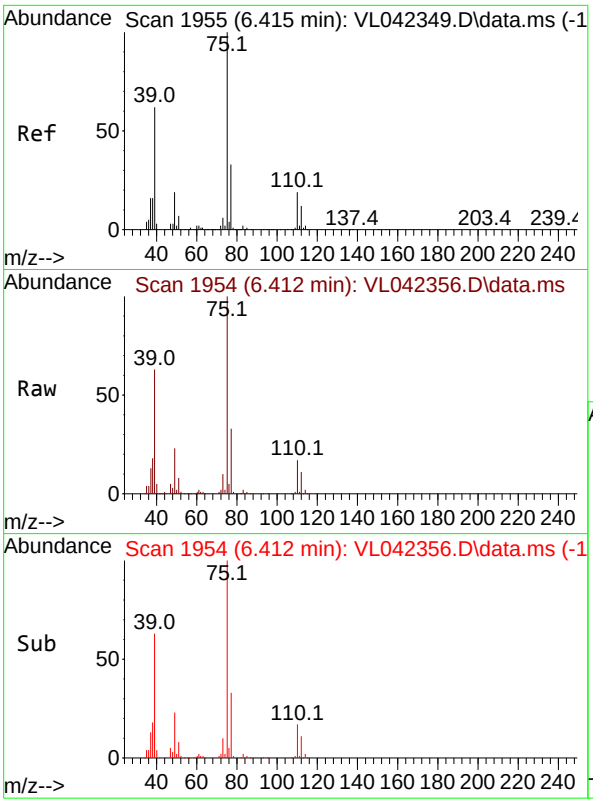


#44
2,2,4-Trimethylpentane
Concen: 10.030 ppbv
RT: 4.641 min Scan# 1407
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 57 Resp: 606376

Ion	Ratio	Lower	Upper
57	100		
41	34.3	27.2	40.8
56	31.6	25.7	38.5



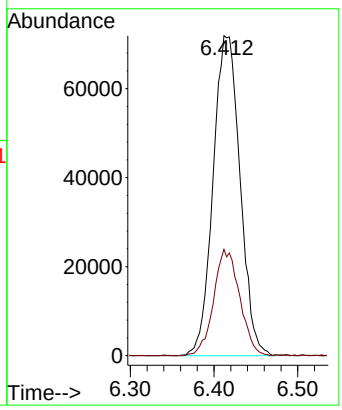


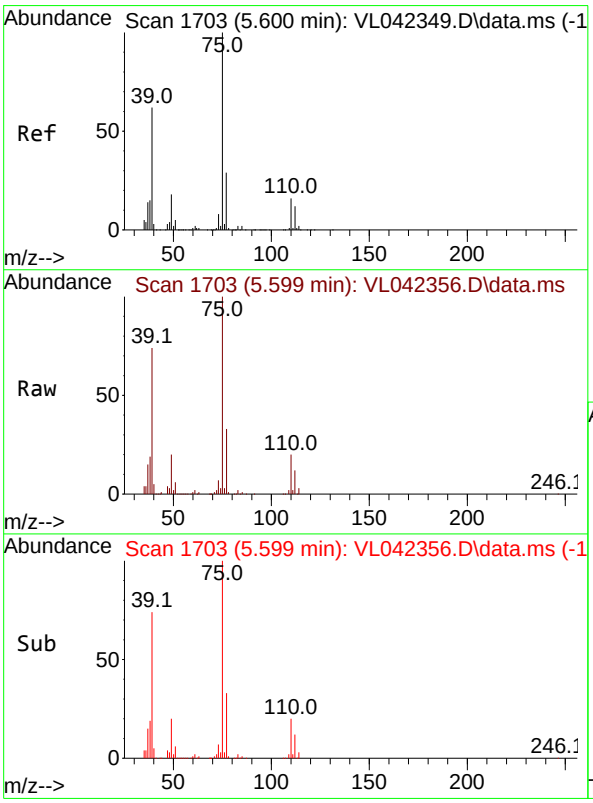
#45
t-1,3-Dichloropropene
Concen: 9.975 ppbv
RT: 6.412 min Scan# 1
Delta R.T. -0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

Tgt Ion: 75 Resp: 160750

Ion	Ratio	Lower	Upper
75	100		
77	33.2	27.0	40.6

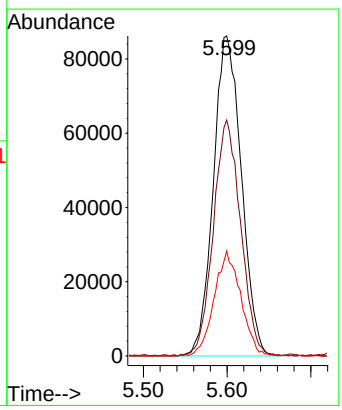


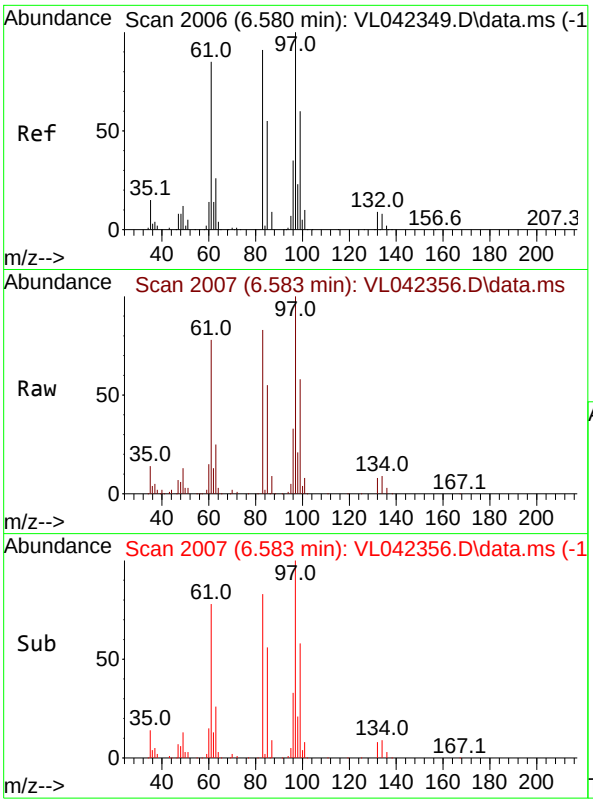


#46
cis-1,3-Dichloropropene
Concen: 10.148 ppbv
RT: 5.599 min Scan# 1703
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 75 Resp: 200144

Ion	Ratio	Lower	Upper
75	100		
39	73.7	50.0	75.0
77	32.7	23.0	34.6



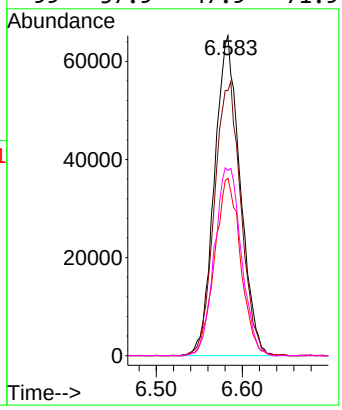


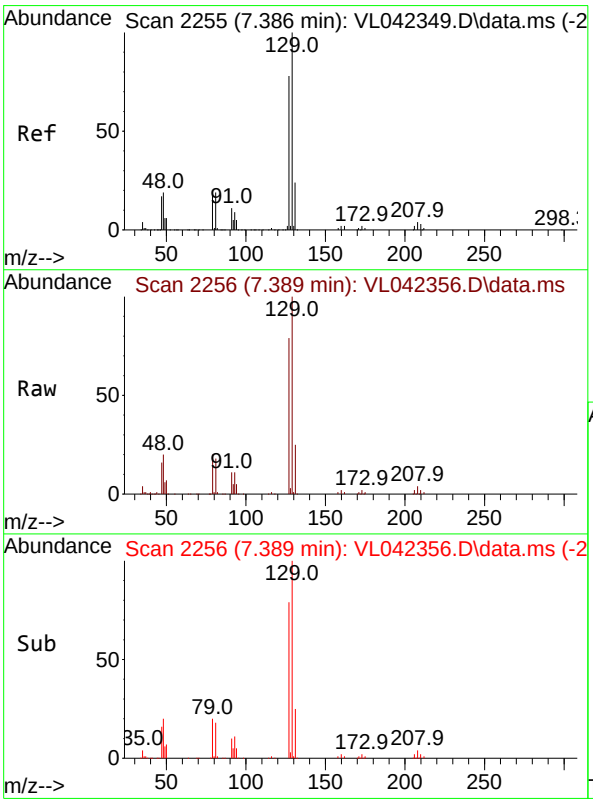
#47
1,1,2-Trichloroethane
Concen: 10.202 ppbv
RT: 6.583 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

Tgt Ion: 97 Resp: 135575

Ion	Ratio	Lower	Upper
97	100		
83	82.8	72.8	109.2
85	55.5	44.2	66.4
99	57.9	47.9	71.9

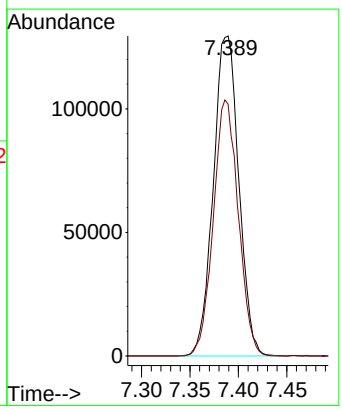


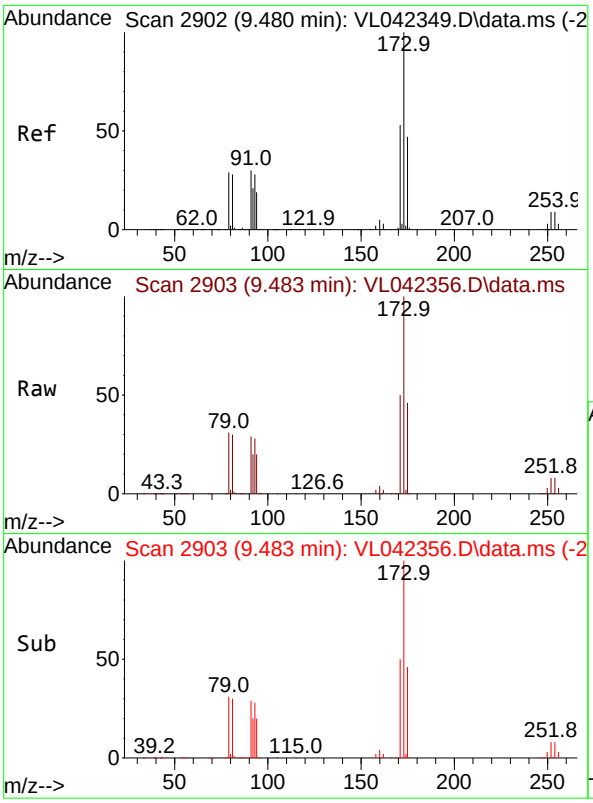


#48
Dibromochloromethane
Concen: 10.103 ppbv
RT: 7.389 min Scan# 2256
Delta R.T. 0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion:129 Resp: 237206

Ion	Ratio	Lower	Upper
129	100		
127	78.4	39.1	117.3



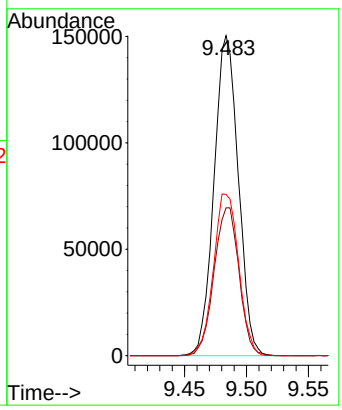


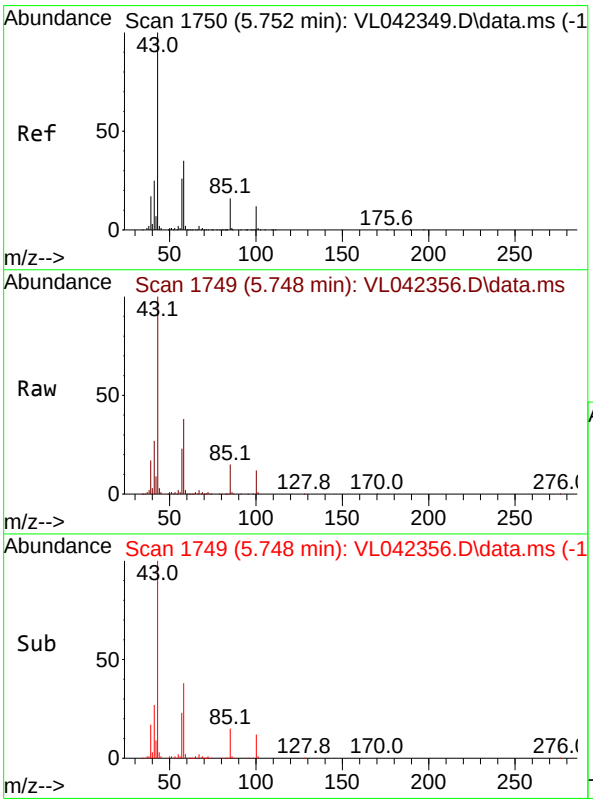
#49
Bromoform
Concen: 10.016 ppbv
RT: 9.483 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

Tgt Ion:173 Resp: 205630

Ion	Ratio	Lower	Upper
173	100		
175	47.6	38.2	57.2
171	52.5	40.9	61.3

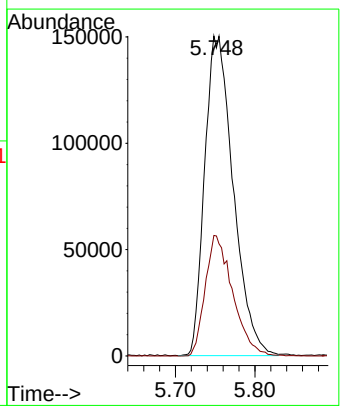


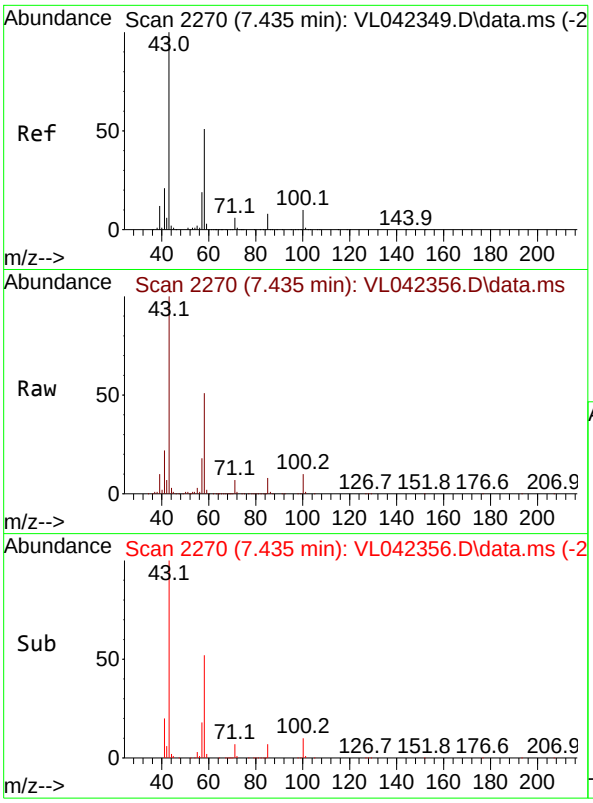


#50
4-Methyl-2-Pentanone
Concen: 8.819 ppbv
RT: 5.748 min Scan# 1749
Delta R.T. -0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 43 Resp: 376145

Ion	Ratio	Lower	Upper
43	100		
58	36.2	28.6	43.0



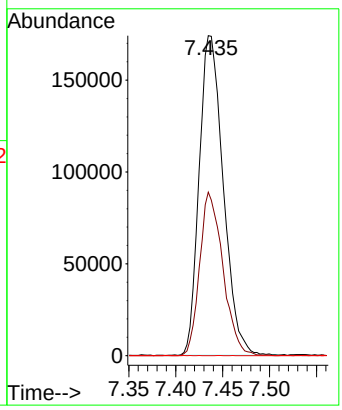


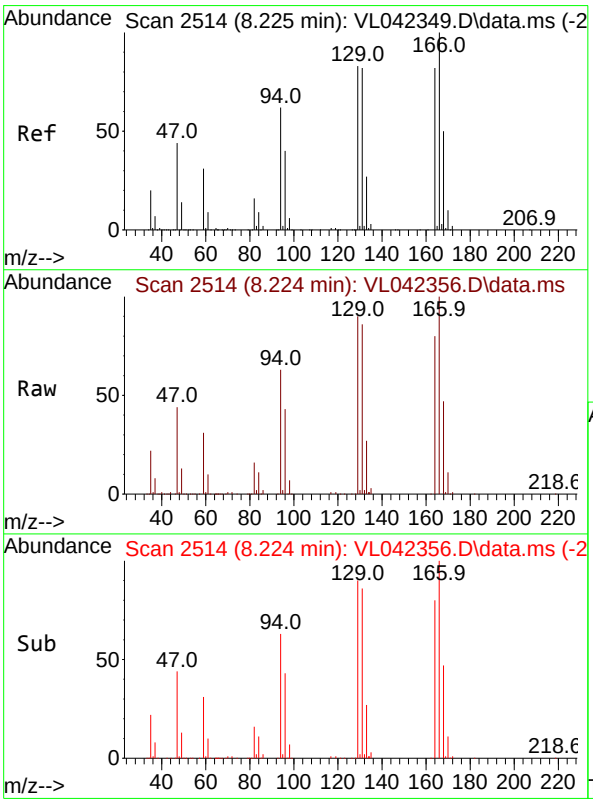
#51
2-Hexanone
Concen: 8.118 ppbv
RT: 7.435 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

Tgt Ion: 43 Resp: 310521

Ion	Ratio	Lower	Upper
43	100		
58	49.3	40.2	60.4
98	0.0	0.1	0.1#

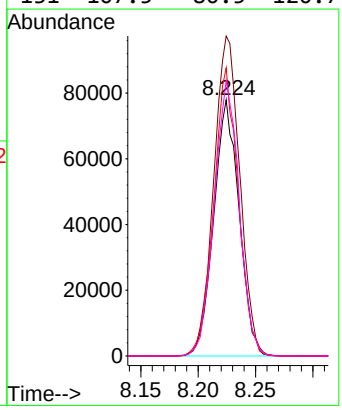


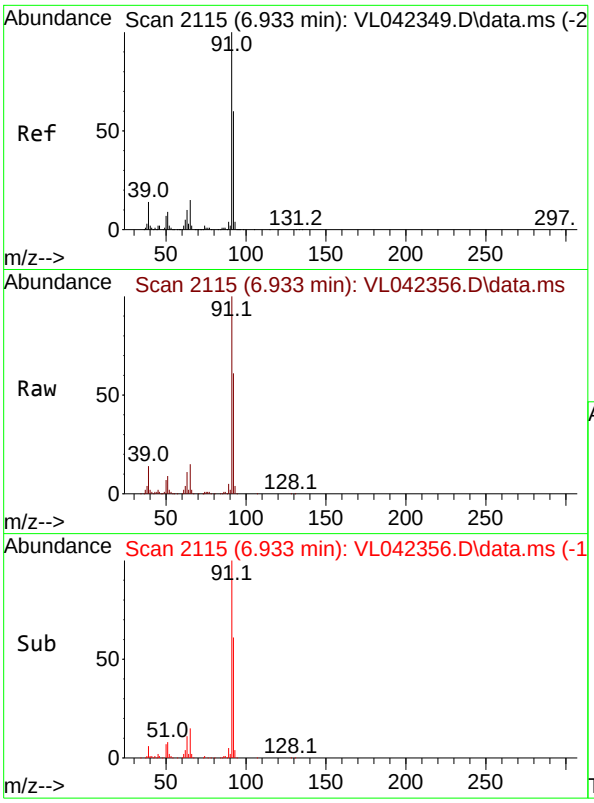


#52
Tetrachloroethene
Concen: 8.827 ppbv
RT: 8.224 min Scan# 2514
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion:164 Resp: 119424

Ion	Ratio	Lower	Upper
164	100		
166	124.9	98.2	147.2
129	112.5	81.8	122.8
131	107.5	80.5	120.7



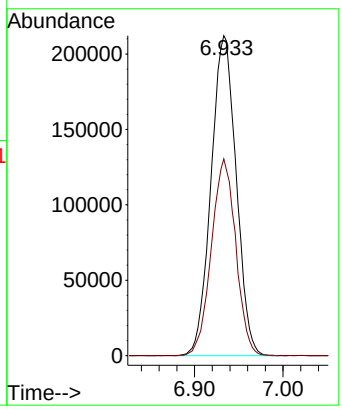


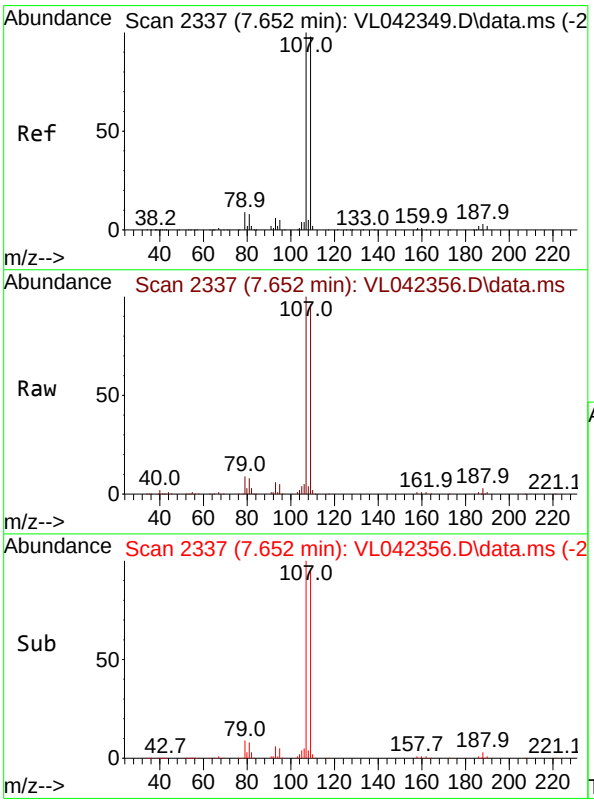
#53
Toluene
Concen: 9.986 ppbv
RT: 6.933 min Scan# 21
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

Tgt Ion: 91 Resp: 419462

Ion	Ratio	Lower	Upper
91	100		
92	59.6	48.2	72.4

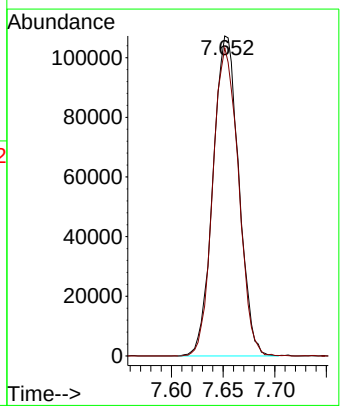


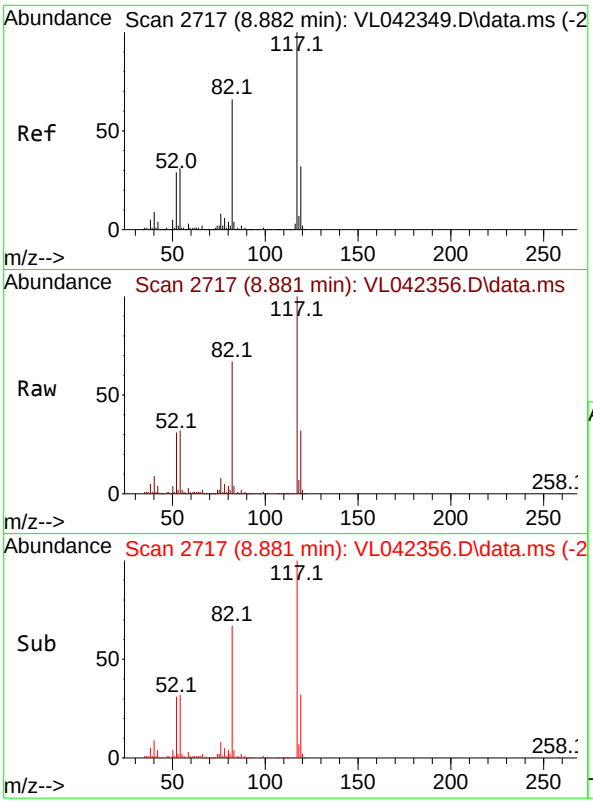


#54
1,2-Dibromoethane
Concen: 9.792 ppbv
RT: 7.652 min Scan# 2337
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion:107 Resp: 186231

Ion	Ratio	Lower	Upper
107	100		
109	96.3	78.2	117.4



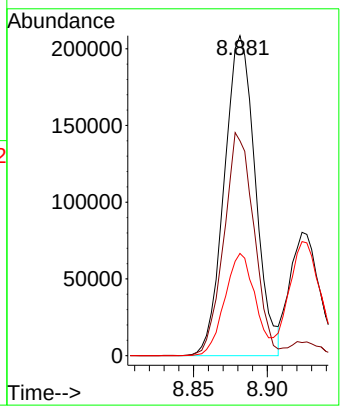


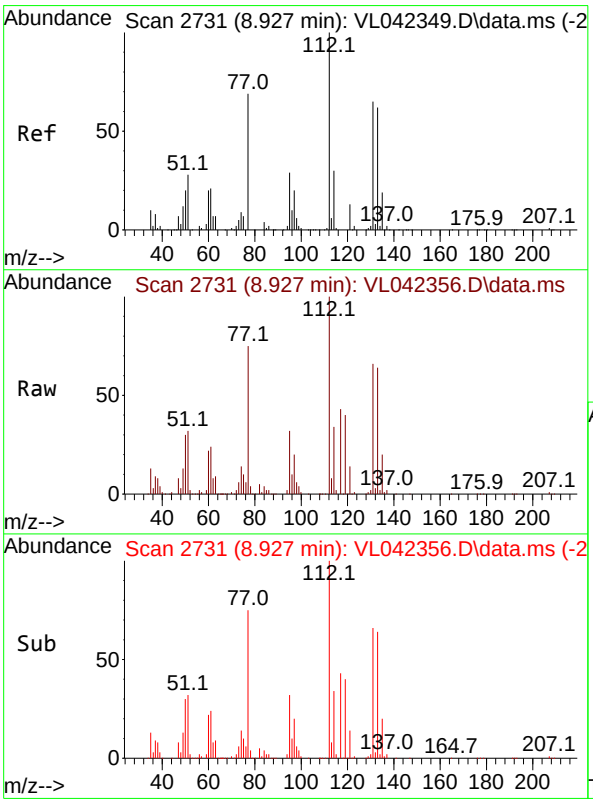
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.881 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

Tgt Ion:117 Resp: 305357

Ion	Ratio	Lower	Upper
117	100		
82	68.3	57.8	86.6
119	31.8	25.2	37.8

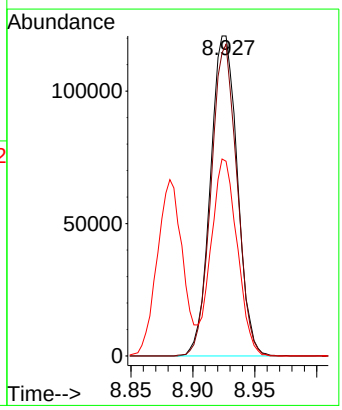


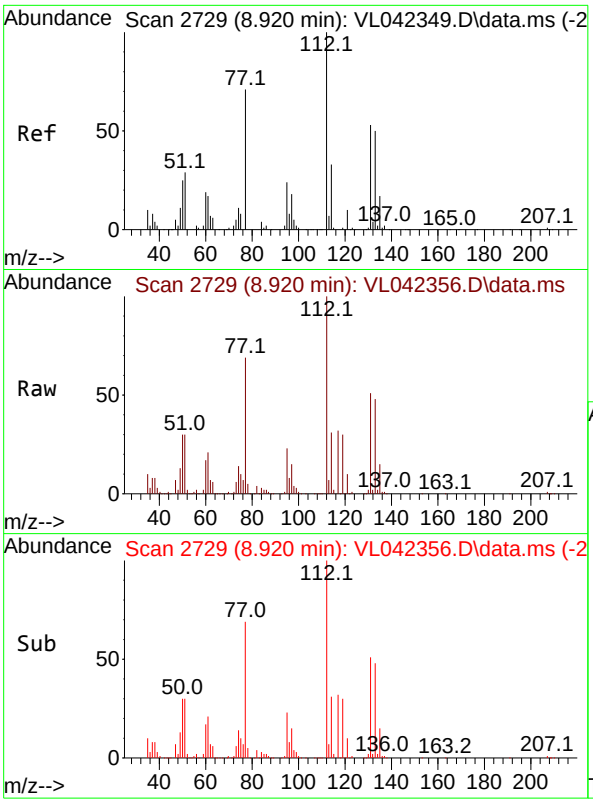


#56
1,1,1,2-Tetrachloroethane
Concen: 9.886 ppbv
RT: 8.927 min Scan# 2731
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion:131 Resp: 182712

Ion	Ratio	Lower	Upper
131	100		
133	93.9	78.3	117.5
119	59.4	48.7	73.1



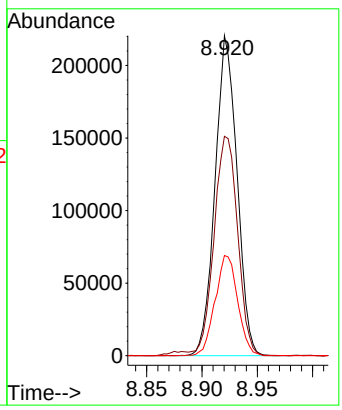


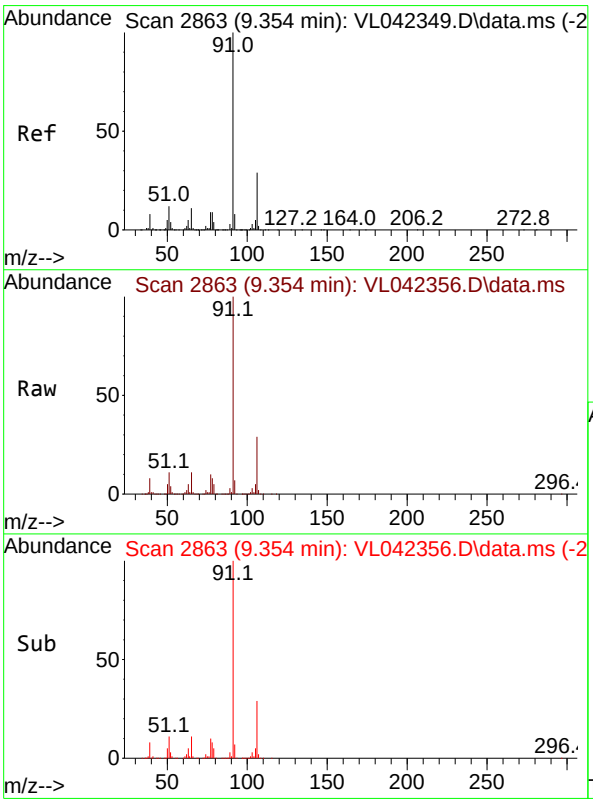
#57
Chlorobenzene
Concen: 9.589 ppbv
RT: 8.920 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

Tgt Ion:112 Resp: 304533

Ion	Ratio	Lower	Upper
112	100		
77	68.5	57.8	86.6
114	31.3	29.3	35.9

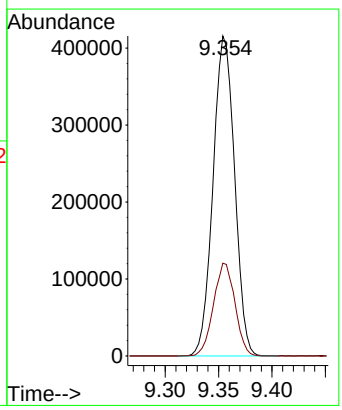


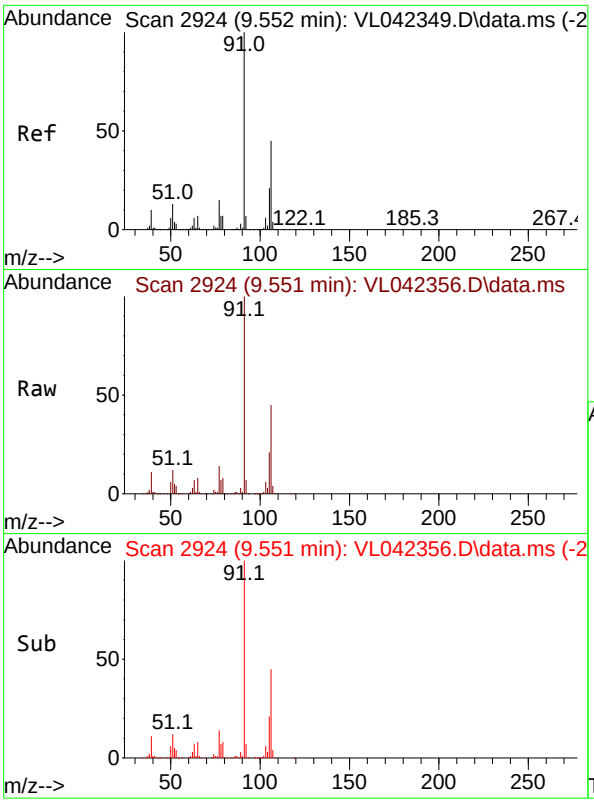


#58
Ethyl Benzene
Concen: 9.645 ppbv
RT: 9.354 min Scan# 2863
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 91 Resp: 583515

Ion	Ratio	Lower	Upper
91	100		
106	29.0	23.0	34.4



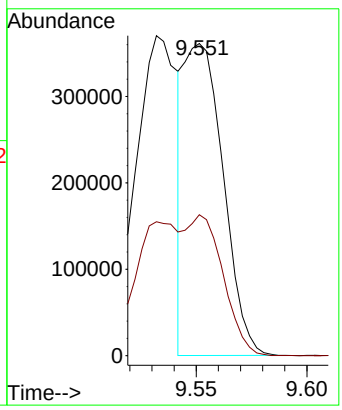


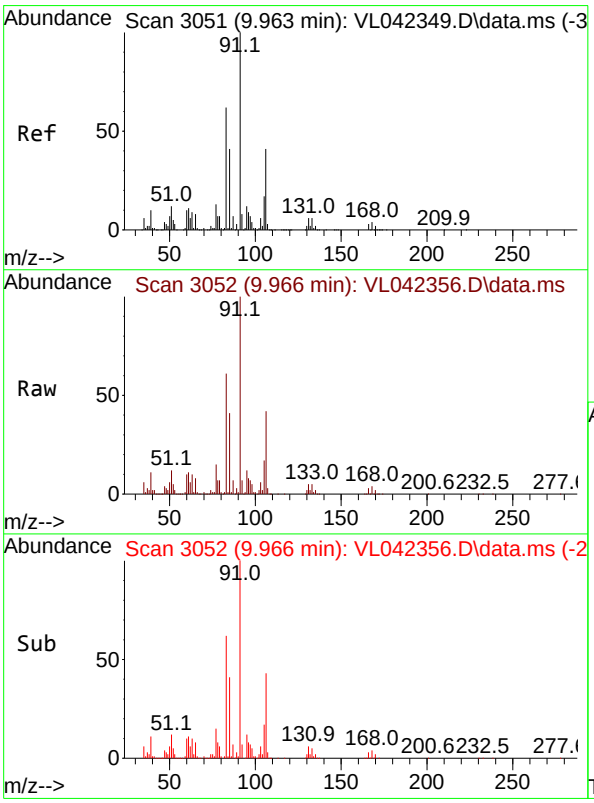
#59
m/p-Xylene
Concen: 9.084 ppbv
RT: 9.551 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

Tgt Ion: 91 Resp: 442744

Ion	Ratio	Lower	Upper
91	100		
106	92.1	35.4	53.2#

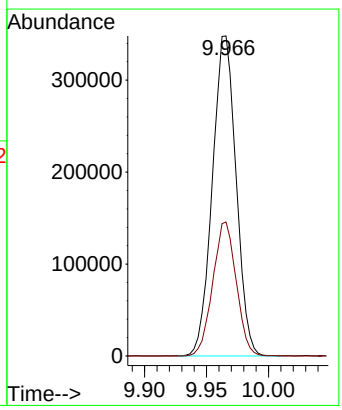


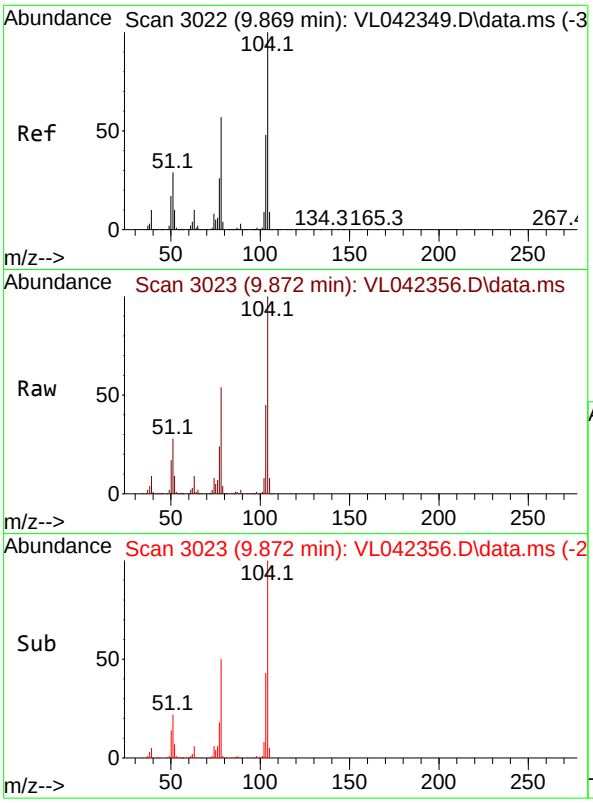


#60
o-Xylene
Concen: 9.465 ppbv
RT: 9.966 min Scan# 3052
Delta R.T. 0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 91 Resp: 464522

Ion	Ratio	Lower	Upper
91	100		
106	41.4	21.1	63.4



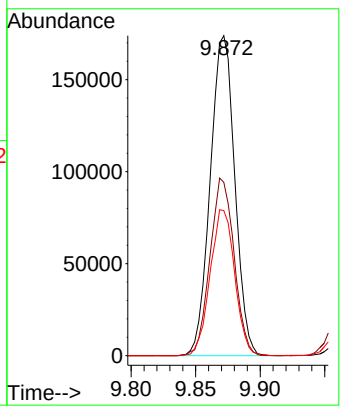


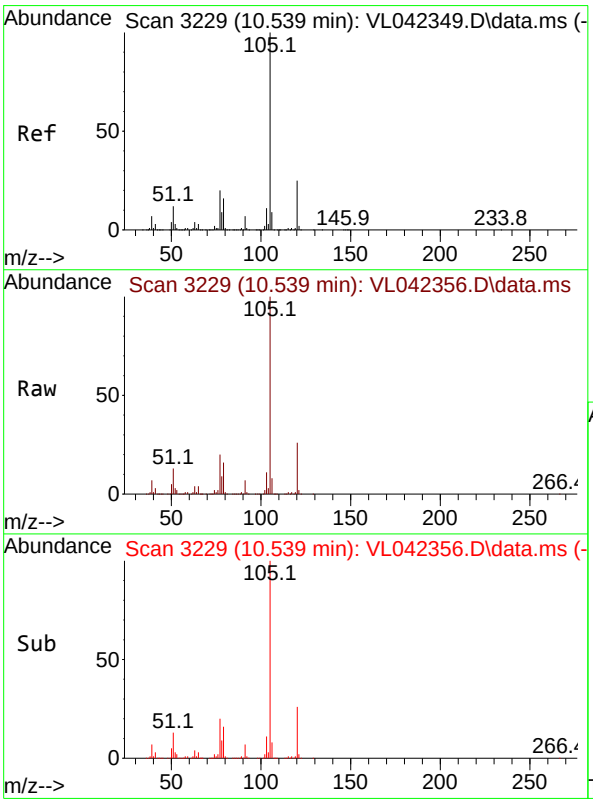
#61
Styrene
Concen: 9.813 ppbv
RT: 9.872 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

Tgt Ion:104 Resp: 229869

Ion	Ratio	Lower	Upper
104	100		
78	54.5	44.6	66.8
103	45.7	37.4	56.0

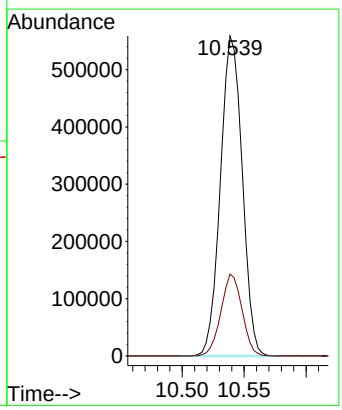


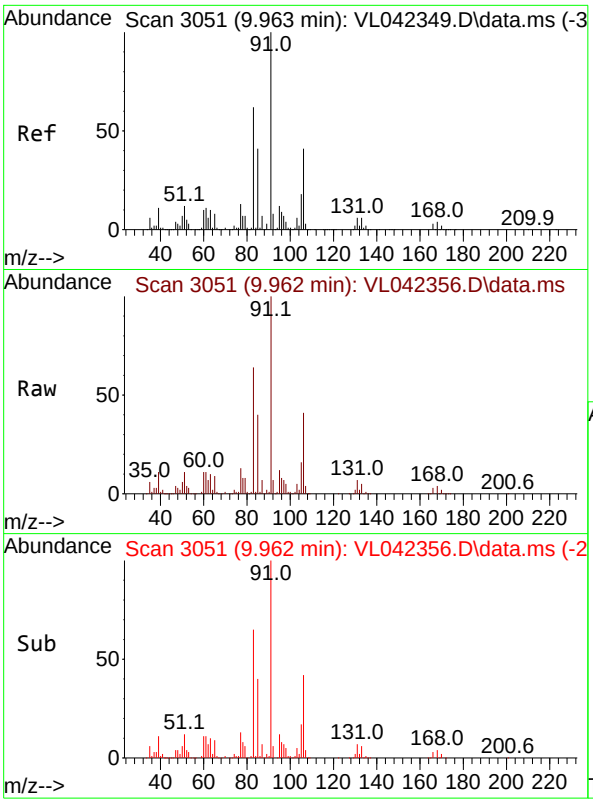


#62
Isopropylbenzene
Concen: 9.520 ppbv
RT: 10.539 min Scan# 3229
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion:105 Resp: 685965

Ion	Ratio	Lower	Upper
105	100		
120	24.8	19.8	29.8



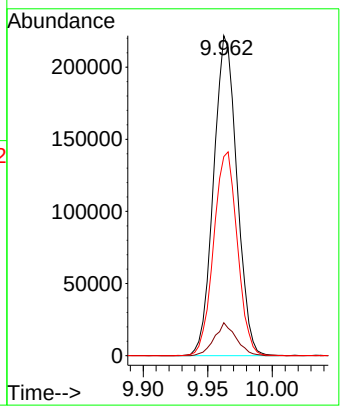


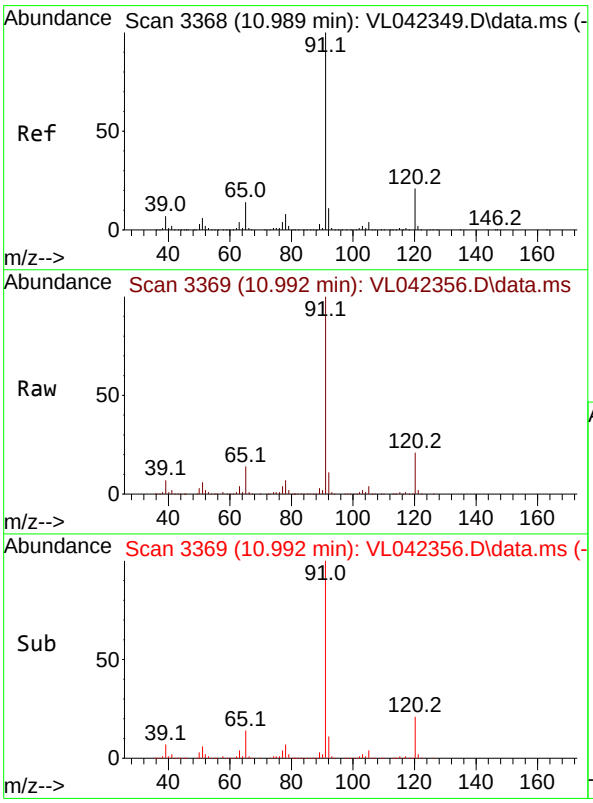
#63
1,1,2,2-Tetrachloroethane
Concen: 8.773 ppbv
RT: 9.962 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

Tgt Ion: 83 Resp: 279007

Ion	Ratio	Lower	Upper
83	100		
131	9.6	4.5	13.7
85	64.6	32.4	97.0

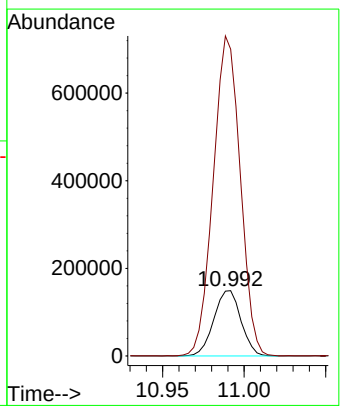


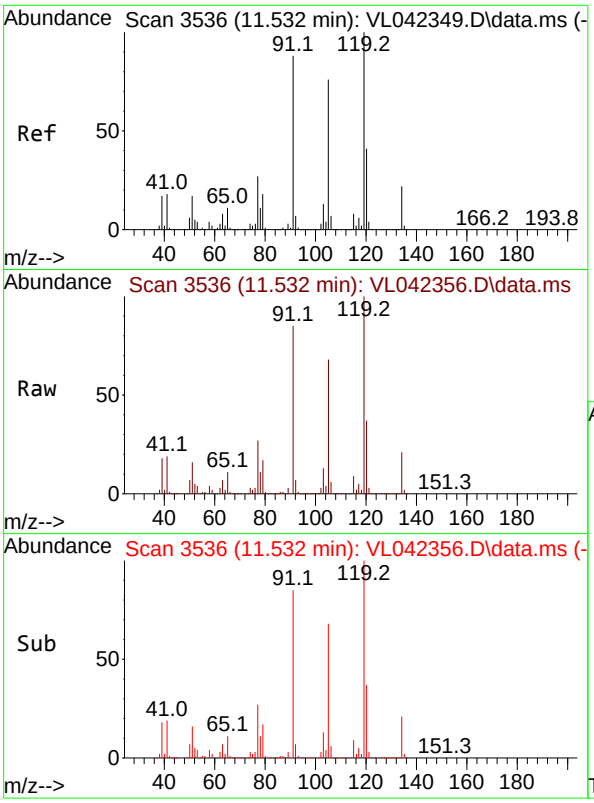


#64
n-propylbenzene
Concen: 9.533 ppbv
RT: 10.992 min Scan# 3369
Delta R.T. 0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion:120 Resp: 172654

Ion	Ratio	Lower	Upper
120	100		
91	487.7	392.4	588.6



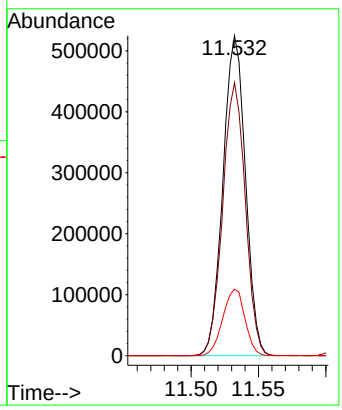


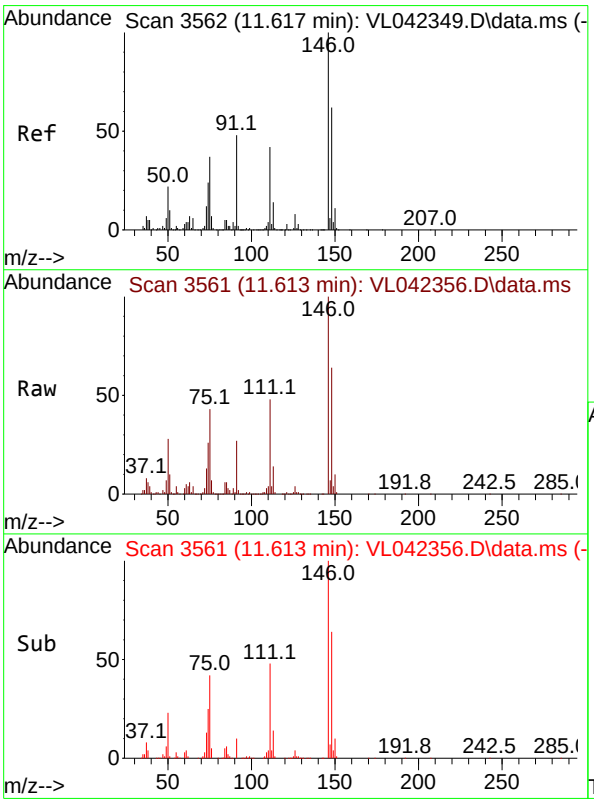
#65
tert-Butylbenzene
Concen: 9.203 ppbv
RT: 11.532 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

Tgt Ion:119 Resp: 609500

Ion	Ratio	Lower	Upper
119	100		
91	85.8	74.6	111.8
134	20.5	18.8	28.2

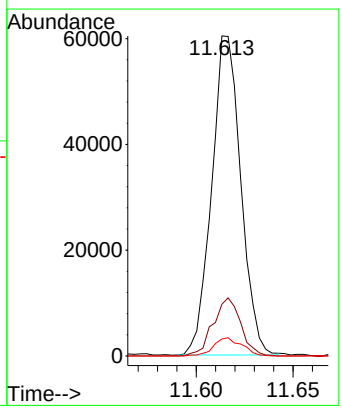


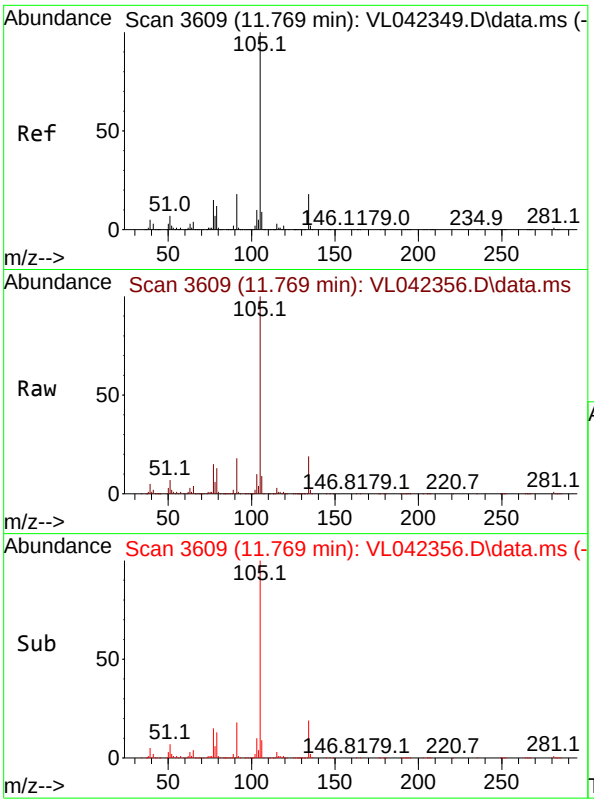


#66
Benzyl Chloride
Concen: 8.664 ppbv
RT: 11.613 min Scan# 3561
Delta R.T. -0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 91 Resp: 63051

Ion	Ratio	Lower	Upper
91	100		
126	17.3	11.8	17.6
128	5.6	4.5	6.7



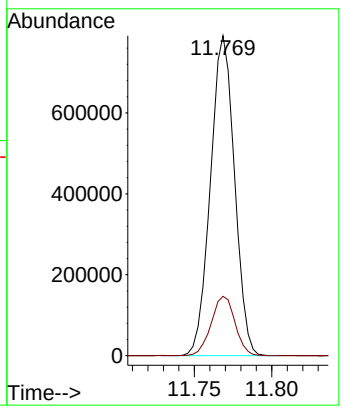


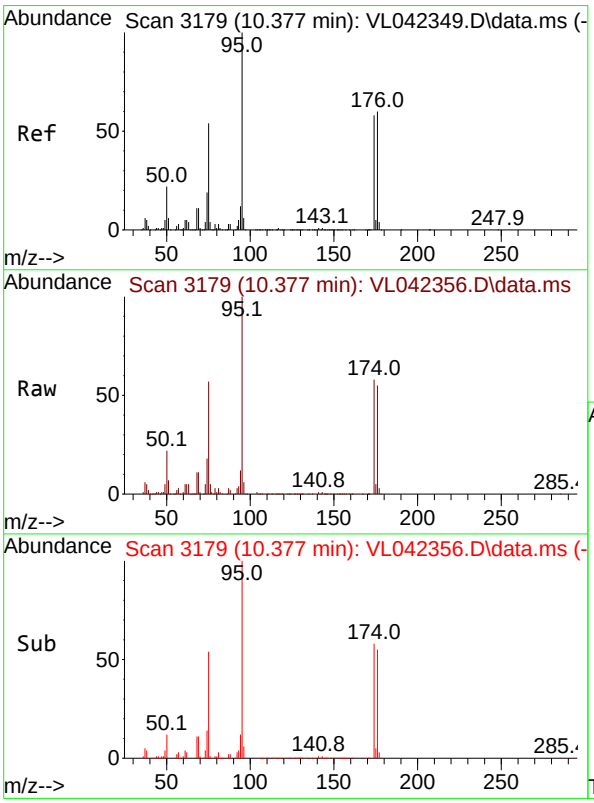
#67
sec-Butylbenzene
Concen: 9.268 ppbv
RT: 11.769 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

Tgt Ion:105 Resp: 853807

Ion	Ratio	Lower	Upper
105	100		
134	18.5	14.6	21.8

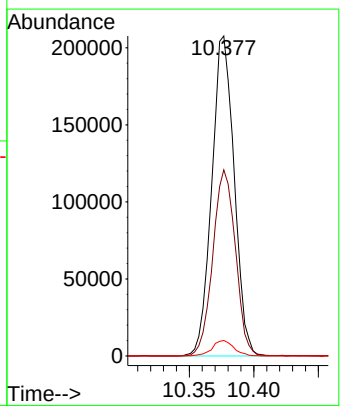


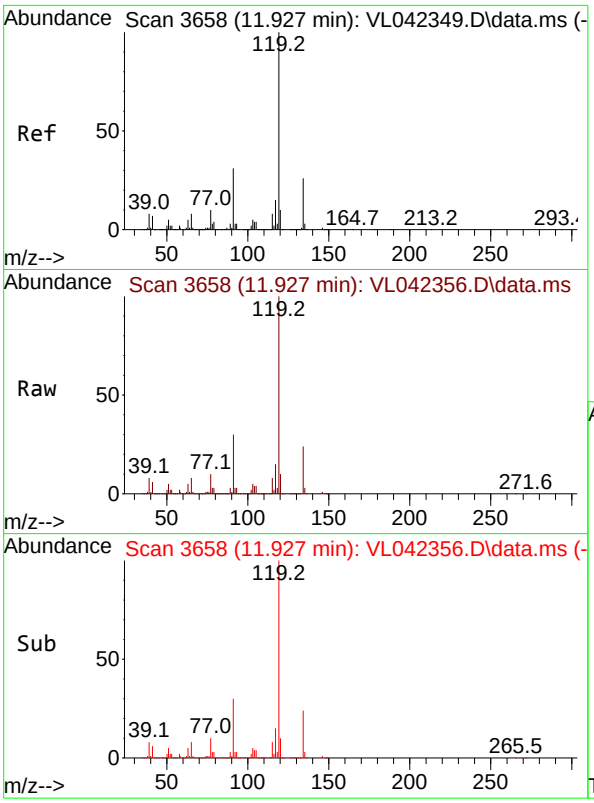


#68
1-Bromo-4-Fluorobenzene
Concen: 9.969 ppbv
RT: 10.377 min Scan# 3179
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 95 Resp: 250149

Ion	Ratio	Lower	Upper
95	100		
174	58.7	48.5	72.7
175	4.7	3.7	5.5



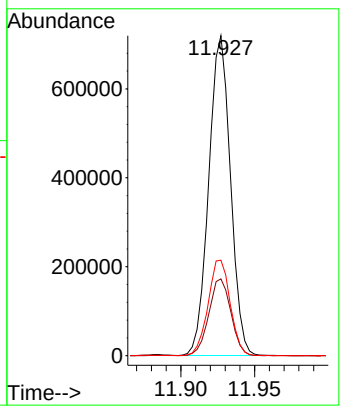


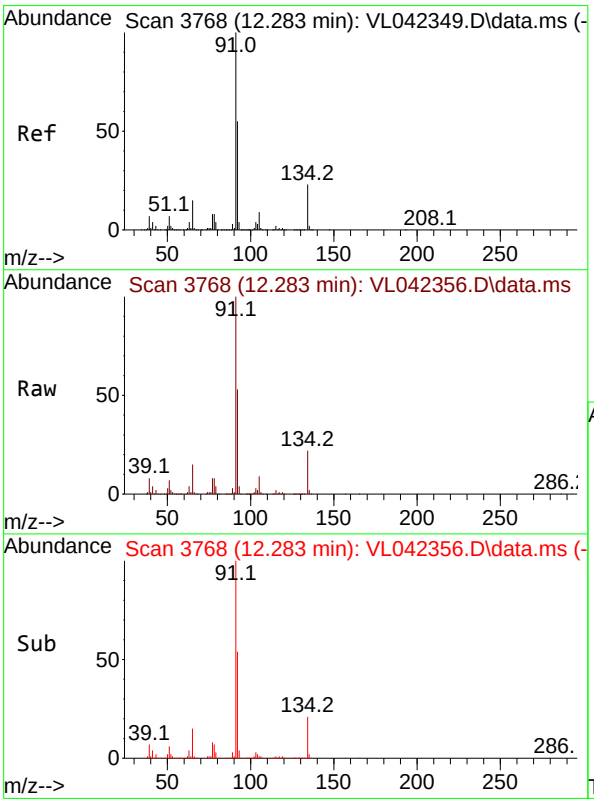
#69
p-Isopropyltoluene
Concen: 9.220 ppbv
RT: 11.927 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

Tgt Ion:119 Resp: 737861

Ion	Ratio	Lower	Upper
119	100		
134	24.5	20.0	30.0
91	30.6	24.4	36.6

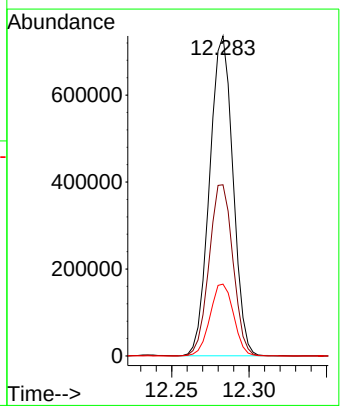


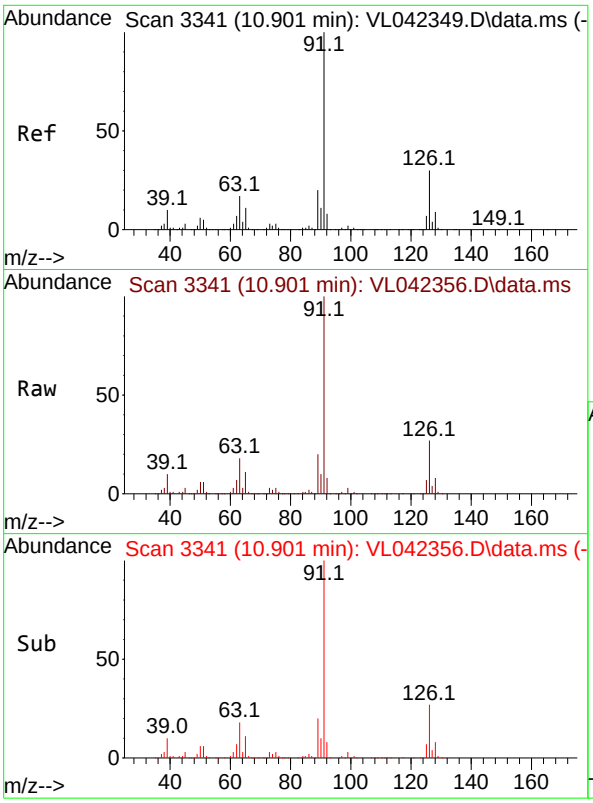


#70
n-Butylbenzene
Concen: 9.255 ppbv
RT: 12.283 min Scan# 3768
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 91 Resp: 771461

Ion	Ratio	Lower	Upper
91	100		
92	54.9	44.2	66.4
134	22.7	18.2	27.4



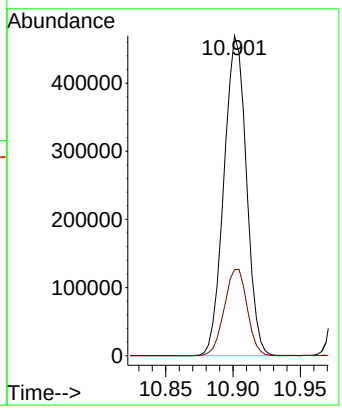


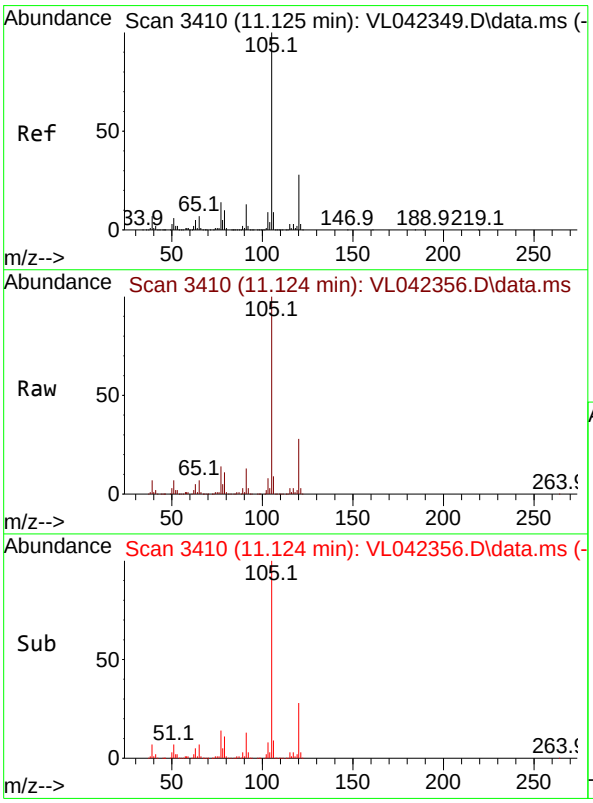
#71
2-Chlorotoluene
Concen: 9.622 ppbv
RT: 10.901 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

Tgt Ion: 91 Resp: 543794

Ion	Ratio	Lower	Upper
91	100		
126	27.5	11.4	45.4

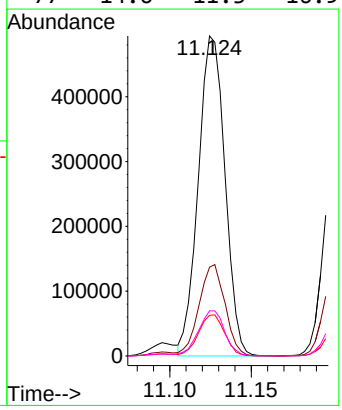


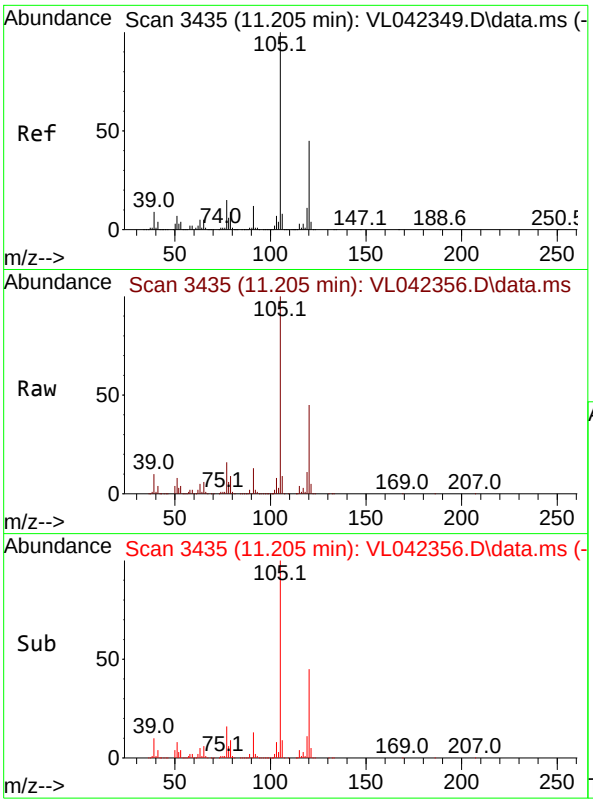


#72
4-Ethyltoluene
Concen: 9.385 ppbv
RT: 11.124 min Scan# 3410
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion:105 Resp: 563136

Ion	Ratio	Lower	Upper
105	100		
120	28.9	23.2	34.8
91	13.2	10.4	15.6
77	14.6	11.3	16.9



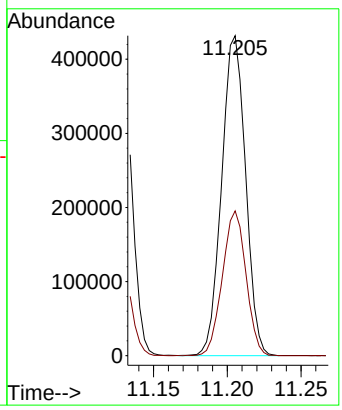


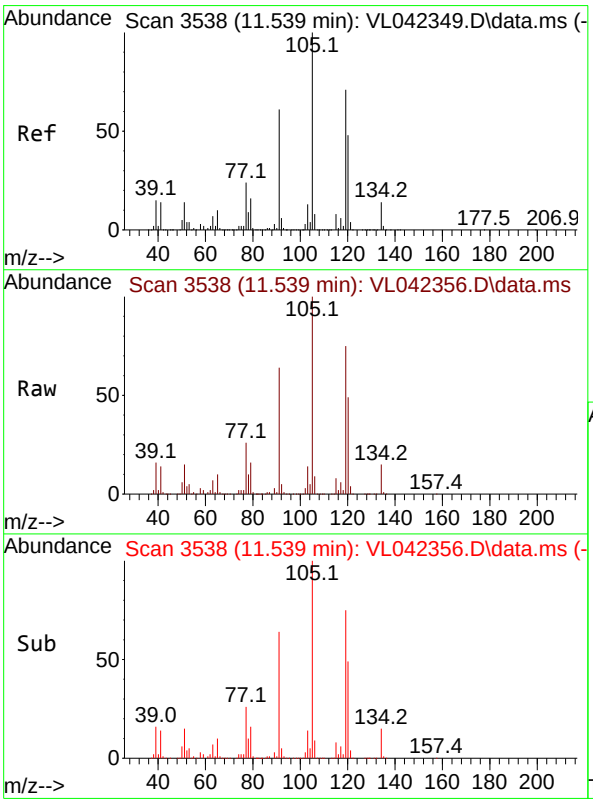
#73
1,3,5-Trimethylbenzene
Concen: 9.186 ppbv
RT: 11.205 min Scan# 34
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

Tgt Ion:105 Resp: 486583

Ion	Ratio	Lower	Upper
105	100		
120	45.2	35.6	53.4

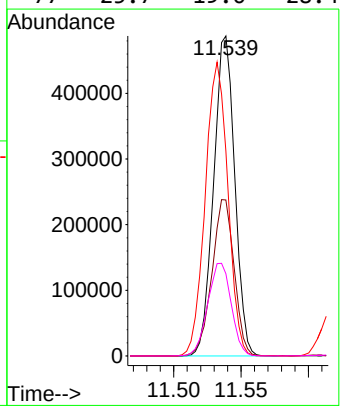


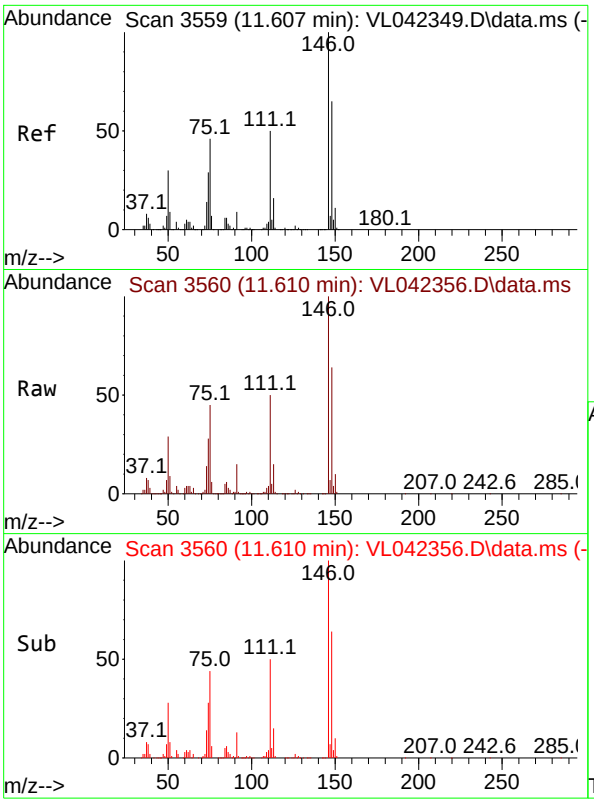


#74
1,2,4-Trimethylbenzene
Concen: 8.592 ppbv
RT: 11.539 min Scan# 3538
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion:105 Resp: 531576

Ion	Ratio	Lower	Upper
105	100		
120	48.7	38.1	57.1
91	64.0	48.8	73.2
77	25.7	19.0	28.4



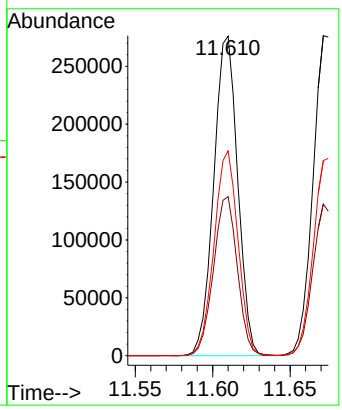


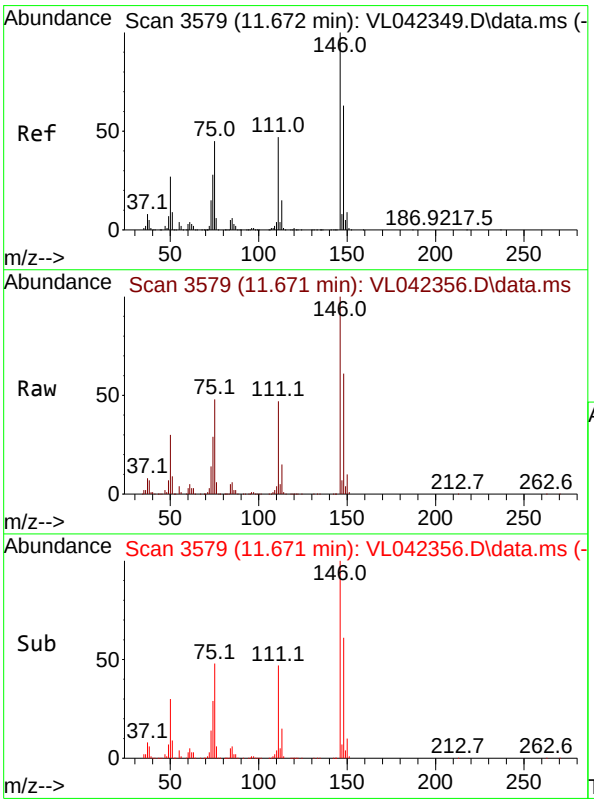
#75
1,3-Dichlorobenzene
Concen: 9.240 ppbv
RT: 11.610 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

Tgt Ion:146 Resp: 297157

Ion	Ratio	Lower	Upper
146	100		
111	49.5	24.3	72.8
148	64.1	31.6	94.8

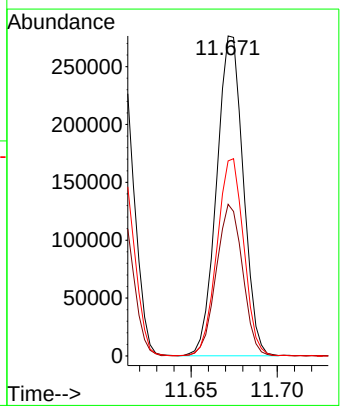


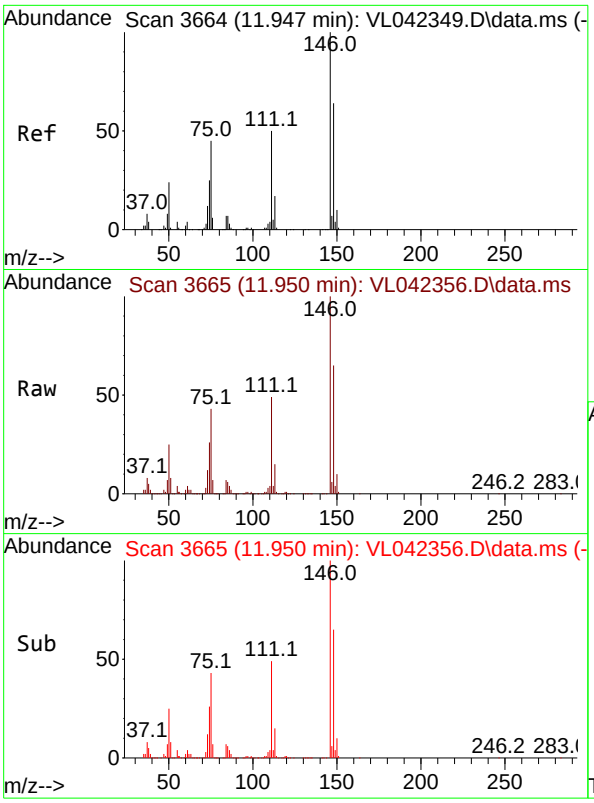


#76
1,4-Dichlorobenzene
Concen: 9.210 ppbv
RT: 11.671 min Scan# 3579
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion:146 Resp: 297697

Ion	Ratio	Lower	Upper
146	100		
111	47.1	24.2	72.6
148	62.3	32.1	96.5



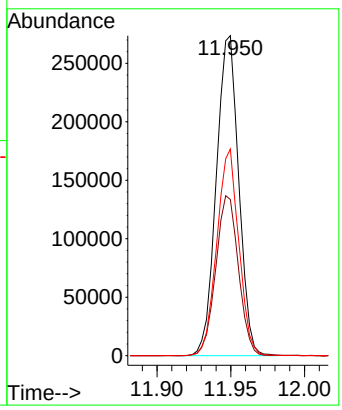


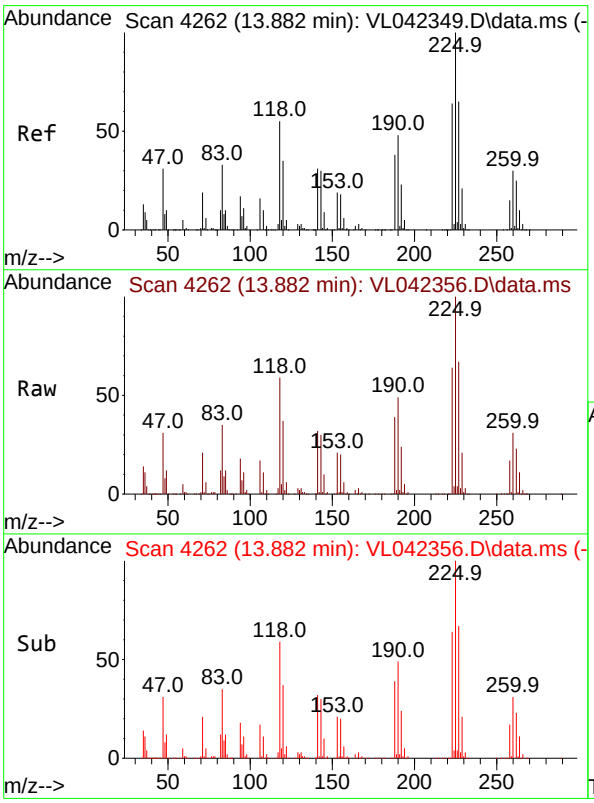
#77
1,2-Dichlorobenzene
Concen: 9.251 ppbv
RT: 11.950 min Scan# 3(
Delta R.T. 0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

Tgt Ion:146 Resp: 289284

Ion	Ratio	Lower	Upper
146	100		
111	50.8	25.3	75.9
148	63.4	31.5	94.5

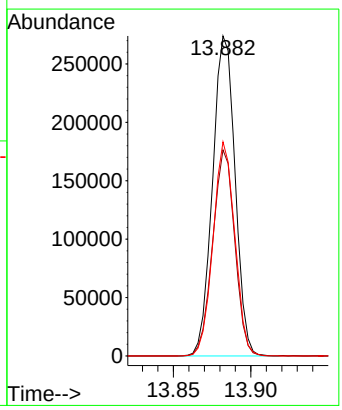


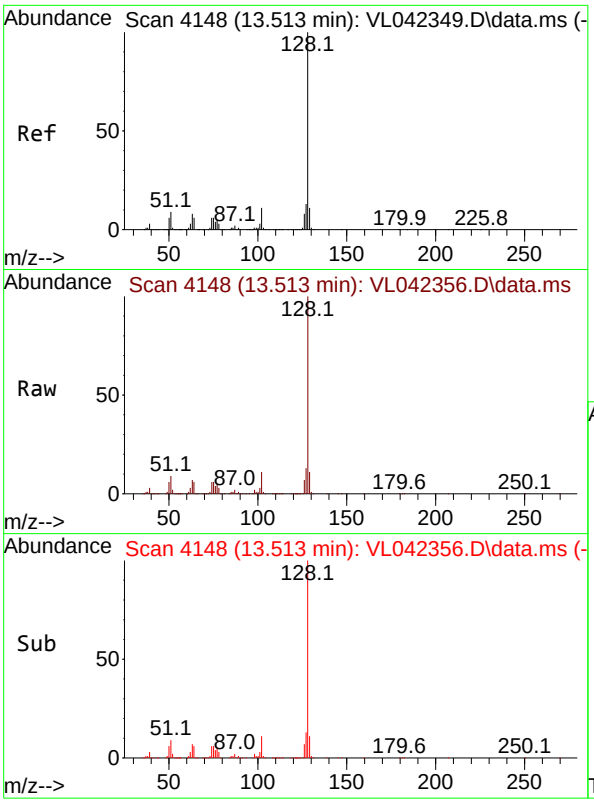


#78
Hexachloro-1,3-Butadiene
Concen: 8.771 ppbv
RT: 13.882 min Scan# 4262
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion:225 Resp: 276960

Ion	Ratio	Lower	Upper
225	100		
223	63.0	50.3	75.5
227	64.5	51.5	77.3



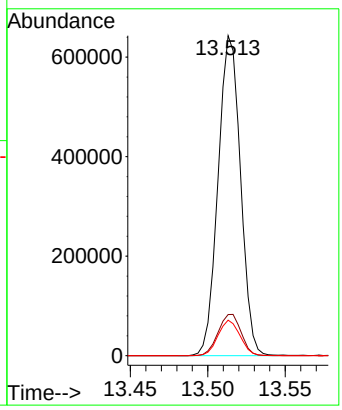


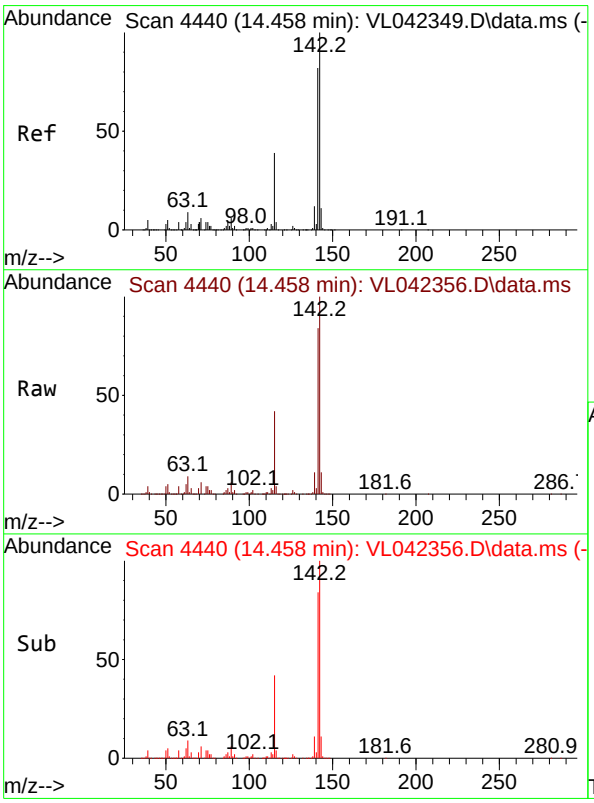
#79
Naphthalene
Concen: 8.750 ppbv
RT: 13.513 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

Tgt Ion:128 Resp: 647349

Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.6	15.8
129	11.1	8.6	12.8

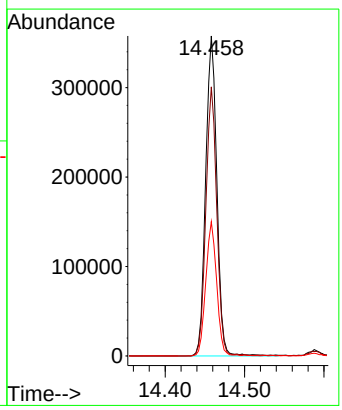


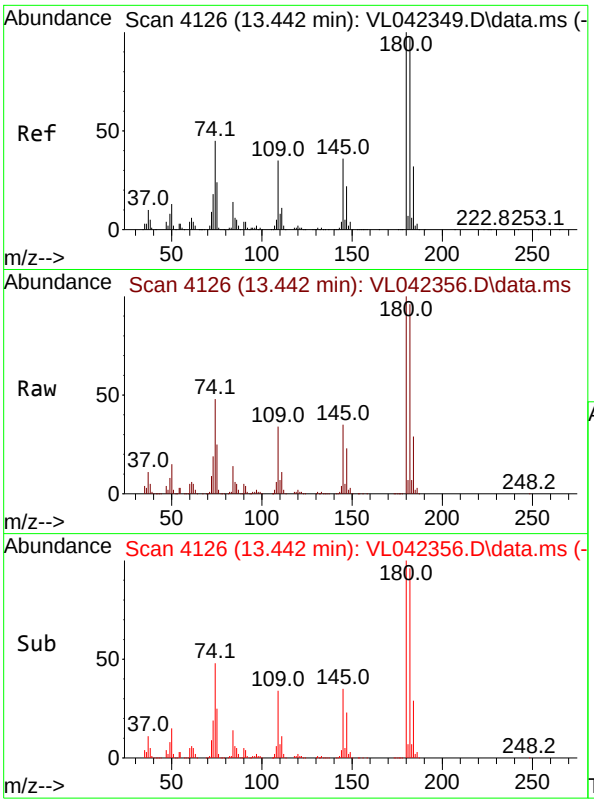


#80
Naphthalene,2-methyl-
Concen: 8.307 ppbv
RT: 14.458 min Scan# 4440
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion:142 Resp: 350259

Ion	Ratio	Lower	Upper
142	100		
141	83.0	66.8	100.2
115	41.4	33.4	50.2



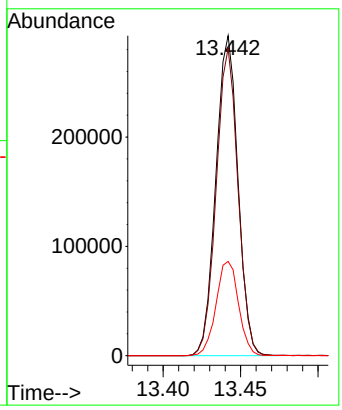


#81
1,2,4-Trichlorobenzene
Concen: 9.136 ppbv
RT: 13.442 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

Tgt Ion:180 Resp: 290260

Ion	Ratio	Lower	Upper
180	100		
182	94.7	76.8	115.2
184	30.1	24.6	36.8



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042358.D
Acq On : 17 Apr 2025 15:39
Operator : SY/MD
Sample : VL0417ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01

Quant Time: Apr 18 02:36:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.790	49	122375	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	352201	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.888	117	321521	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.380	95	266757	10.096	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 101.000%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	223505	10.337	ppbv	97
3) Chlorodifluoromethane	1.476	51	206172	10.014	ppbv	100
4) Chloromethane	1.535	50	86675	10.130	ppbv	98
5) Vinyl Chloride	1.583	62	83419	8.956	ppbv	98
6) Bromomethane	1.670	94	36951	9.235	ppbv	83
7) Chloroethane	1.706	64	33936	10.075	ppbv	100
8) Dichlorotetrafluoroethane	1.557	85	189924	10.231	ppbv	95
9) Propene	1.486	41	88088	9.395	ppbv	98
10) Heptane	4.985	43	243501	9.244	ppbv	99
11) Trichlorofluoromethane	1.881	101	206645	10.050	ppbv	98
12) 1,1,2-Trichlorotrifluo...	2.140	101	169501	10.083	ppbv	98
13) Ethanol	1.722	45	4837	3.246	ppbv	88
14) Bromoethene	1.784	108	62214	9.818	ppbv	98
15) Acetone	1.836	43	175153	8.743	ppbv	100
16) 1,3-Butadiene	1.609	39	86965	9.076	ppbv	96
17) tert-Butyl alcohol	2.043	59	242154	9.754	ppbv	100
18) 1,1-Dichloroethene	2.036	96	77247	9.836	ppbv	99
19) Isopropyl Alcohol	1.887	45	104123	9.356	ppbv	94
20) Methylene Chloride	2.062	84	69548	8.865	ppbv	91
21) Allyl Chloride	2.098	41	134221	9.704	ppbv	99
22) trans-1,2-Dichloroethene	2.344	96	86323	9.653	ppbv	97
23) Vinyl Acetate	2.467	43	68337	8.427	ppbv #	97
24) 1,1-Dichloroethane	2.412	63	173238	10.199	ppbv	99
25) Ethyl Acetate	2.839	43	488686	9.894	ppbv	100
26) Hexane	2.829	57	195124	9.761	ppbv	97
27) Carbon Disulfide	2.153	76	218345	10.202	ppbv	97
28) Methyl tert-Butyl Ether	2.444	73	124554	9.510	ppbv	96
29) Chloroform	2.852	83	289294	10.239	ppbv	99
30) Cyclohexane	3.862	84	163017	10.088	ppbv	100
31) cis-1,2-Dichloroethene	2.726	61	198108	10.424	ppbv	98
32) 1,1,1-Trichloroethane	3.373	97	309460	9.729	ppbv	99
34) 2-Butanone	2.561	43	272600	9.787	ppbv	99
35) Carbon Tetrachloride	3.768	117	305245	9.576	ppbv	92
36) Benzene	3.661	78	383239	10.088	ppbv	98
37) 1,2-Dichloroethane	3.224	62	236611	10.377	ppbv	99
38) Trichloroethene	4.558	130	153596	9.251	ppbv	98
39) 1,2-Dichloropropane	4.321	63	139669	9.866	ppbv	95
40) 1,4-Dioxane	4.590	88	67808	8.716	ppbv #	95
41) Tetrahydrofuran	3.059	42	157777	9.715	ppbv	99
42) Bromodichloromethane	4.496	83	327652	10.326	ppbv	98
43) Methyl Methacrylate	4.888	69	159292	9.304	ppbv	95
44) 2,2,4-Trimethylpentane	4.648	57	657377	10.019	ppbv	99
45) t-1,3-Dichloropropene	6.422	75	172514	9.864	ppbv	91

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042358.D
Acq On : 17 Apr 2025 15:39
Operator : SY/MD
Sample : VL0417ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01

Quant Time: Apr 18 02:36:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration

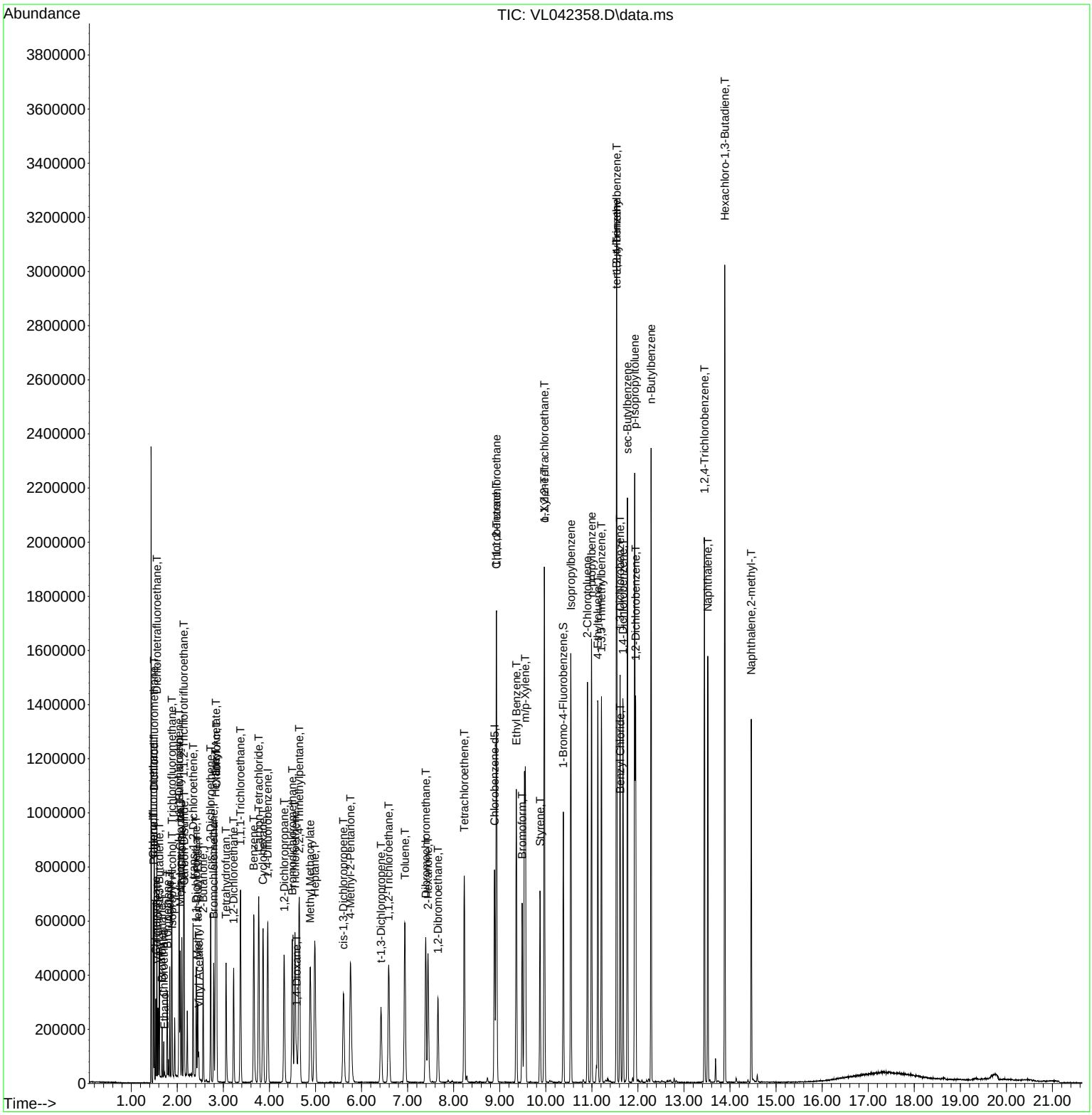
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) cis-1,3-Dichloropropene	5.606	75	216901	10.133	ppbv		91
47) 1,1,2-Trichloroethane	6.590	97	146547	10.161	ppbv		96
48) Dibromochloromethane	7.396	129	261470	10.261	ppbv		100
49) Bromoform	9.487	173	221372	9.936	ppbv		99
50) 4-Methyl-2-Pentanone	5.758	43	407804	8.810	ppbv		99
51) 2-Hexanone	7.441	43	332646	8.013	ppbv	#	98
52) Tetrachloroethene	8.231	164	128670	8.763	ppbv		96
53) Toluene	6.943	91	447581	9.818	ppbv		100
54) 1,2-Dibromoethane	7.658	107	204328	9.899	ppbv		97
56) 1,1,1,2-Tetrachloroethane	8.930	131	199945	10.275	ppbv		96
57) Chlorobenzene	8.927	112	335143	10.022	ppbv		99
58) Ethyl Benzene	9.361	91	635446	9.975	ppbv		97
59) m/p-Xylene	9.555	91	513237	10.001	ppbv	#	33
60) o-Xylene	9.969	91	506535	9.802	ppbv		99
61) Styrene	9.875	104	248022	10.055	ppbv		99
62) Isopropylbenzene	10.545	105	745571	9.827	ppbv		99
63) 1,1,2,2-Tetrachloroethane	9.969	83	298581	8.916	ppbv		100
64) n-propylbenzene	10.995	120	188310	9.875	ppbv		95
65) tert-Butylbenzene	11.536	119	668687	9.589	ppbv		93
66) Benzyl Chloride	11.620	91	69058	9.012	ppbv		96
67) sec-Butylbenzene	11.772	105	930426	9.592	ppbv		100
69) p-Isopropyltoluene	11.931	119	795532	9.441	ppbv		99
70) n-Butylbenzene	12.287	91	846427	9.644	ppbv		100
71) 2-Chlorotoluene	10.905	91	591154	9.934	ppbv		99
72) 4-Ethyltoluene	11.131	105	606879	9.606	ppbv		99
73) 1,3,5-Trimethylbenzene	11.209	105	533060	9.557	ppbv		98
74) 1,2,4-Trimethylbenzene	11.542	105	584747	8.976	ppbv		96
75) 1,3-Dichlorobenzene	11.613	146	320811	9.474	ppbv		99
76) 1,4-Dichlorobenzene	11.675	146	319376	9.384	ppbv		100
77) 1,2-Dichlorobenzene	11.953	146	311460	9.459	ppbv		99
78) Hexachloro-1,3-Butadiene	13.886	225	303379	9.124	ppbv		99
79) Naphthalene	13.517	128	701010	8.999	ppbv		99
80) Naphthalene,2-methyl-	14.462	142	369891	8.331	ppbv		98
81) 1,2,4-Trichlorobenzene	13.445	180	315002	9.417	ppbv		99

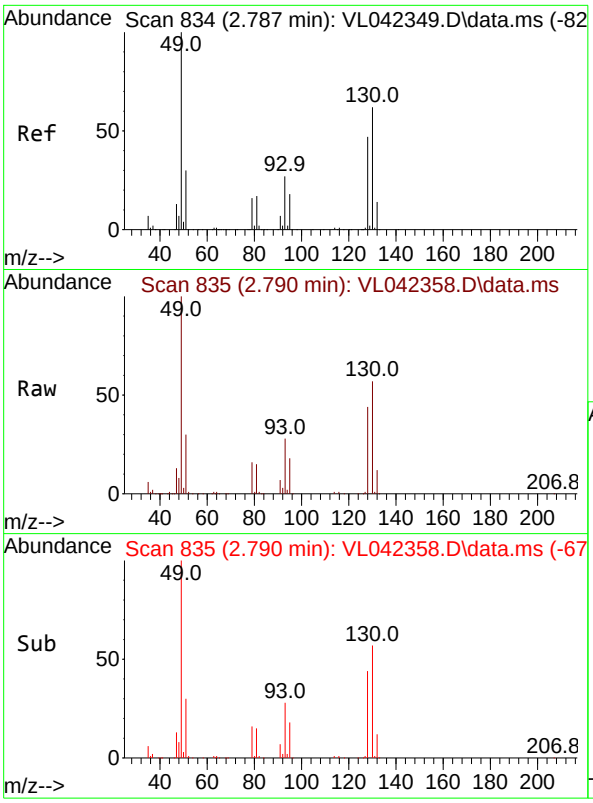
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042358.D
Acq On : 17 Apr 2025 15:39
Operator : SY/MD
Sample : VL0417ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01

Quant Time: Apr 18 02:36:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration



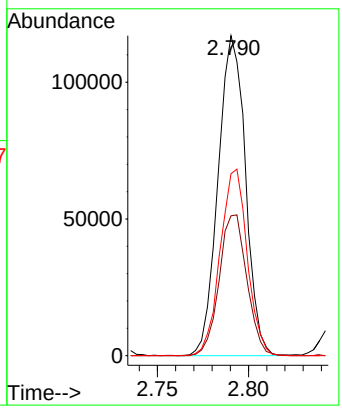


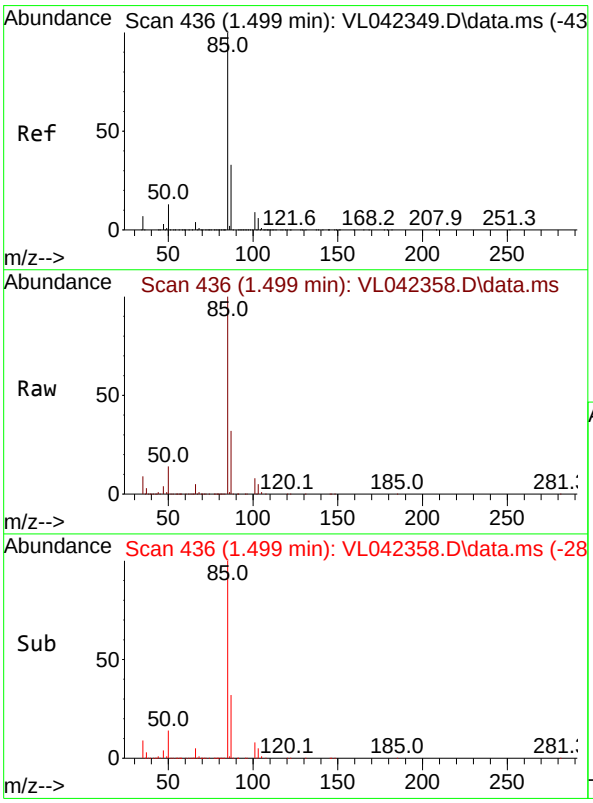
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01

Tgt Ion: 49 Resp: 122375

Ion	Ratio	Lower	Upper
49	100		
128	44.5	22.8	68.4
130	57.6	29.3	88.0

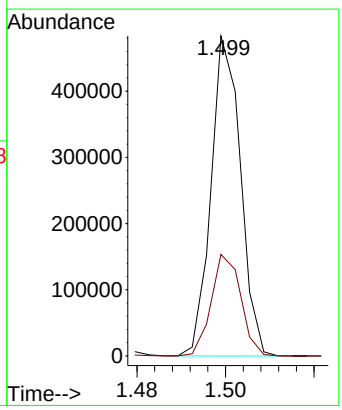


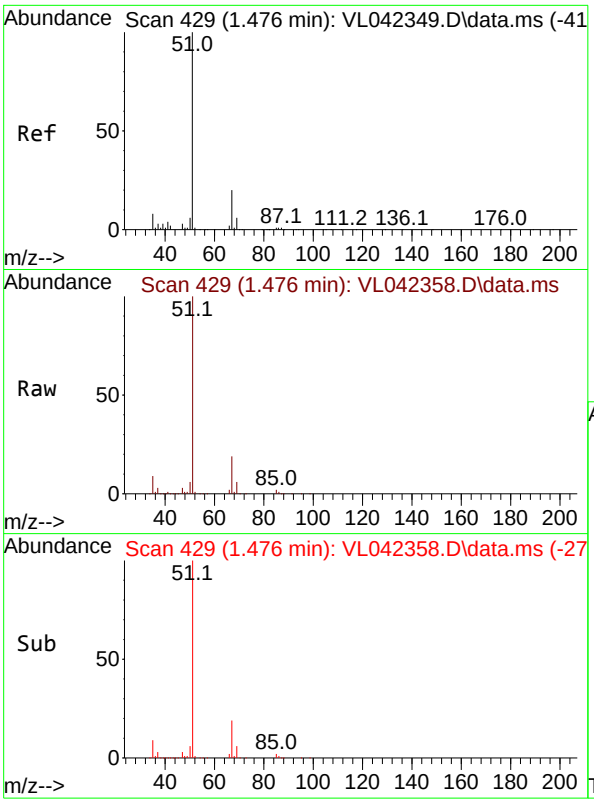


#2
Dichlorodifluoromethane
Concen: 10.337 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.000 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 85 Resp: 223505

Ion	Ratio	Lower	Upper
85	100		
87	31.7	26.6	39.8



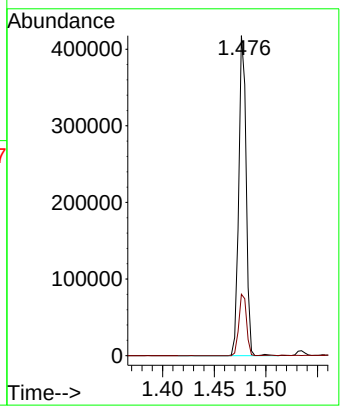


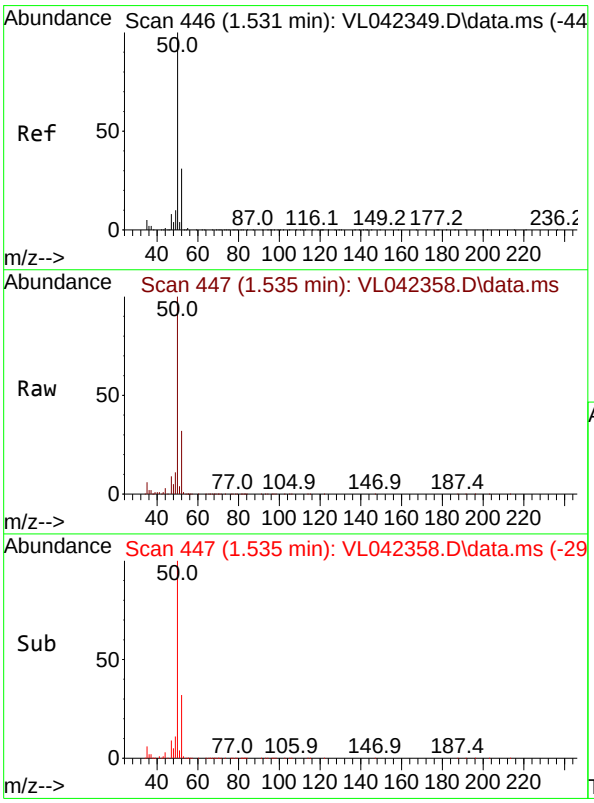
#3
Chlorodifluoromethane
Concen: 10.014 ppbv
RT: 1.476 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01

Tgt Ion: 51 Resp: 206172

Ion	Ratio	Lower	Upper
51	100		
67	20.2	16.2	24.4

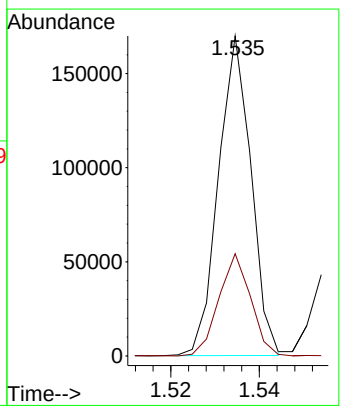


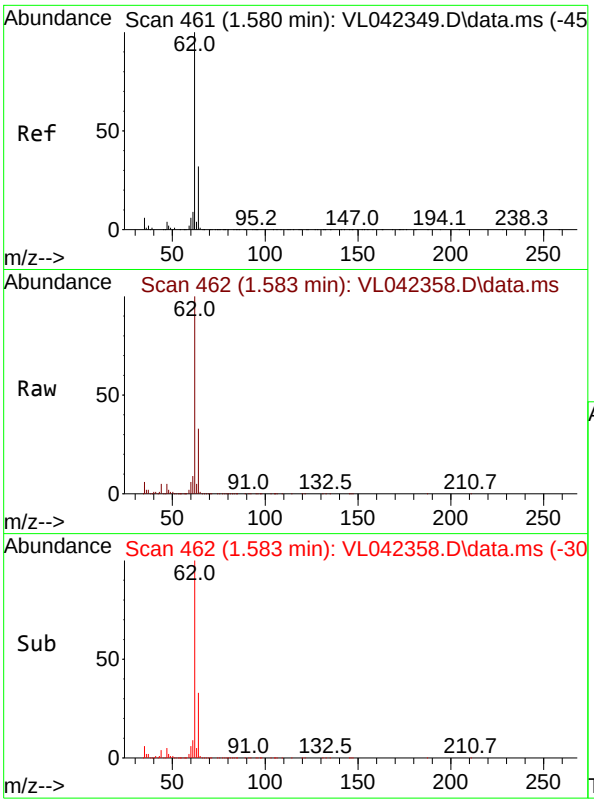


#4
Chloromethane
Concen: 10.130 ppbv
RT: 1.535 min Scan# 447
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 50 Resp: 86675

Ion	Ratio	Lower	Upper
50	100		
52	32.1	24.7	37.1



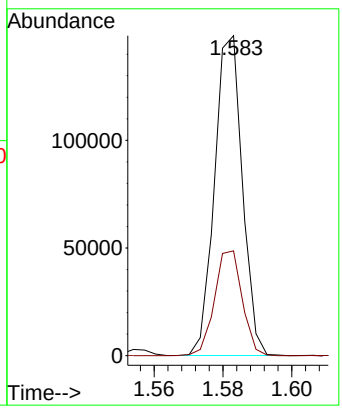


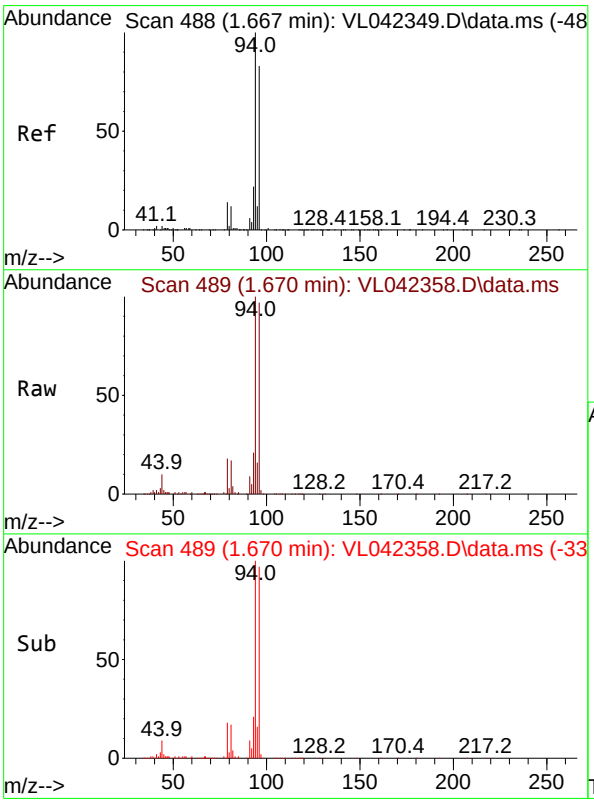
#5
Vinyl Chloride
Concen: 8.956 ppbv
RT: 1.583 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01

Tgt Ion: 62 Resp: 83419

Ion	Ratio	Lower	Upper
62	100		
64	32.8	25.4	38.0

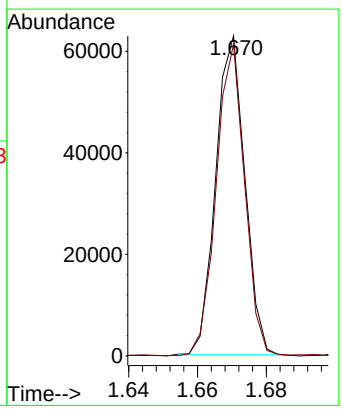


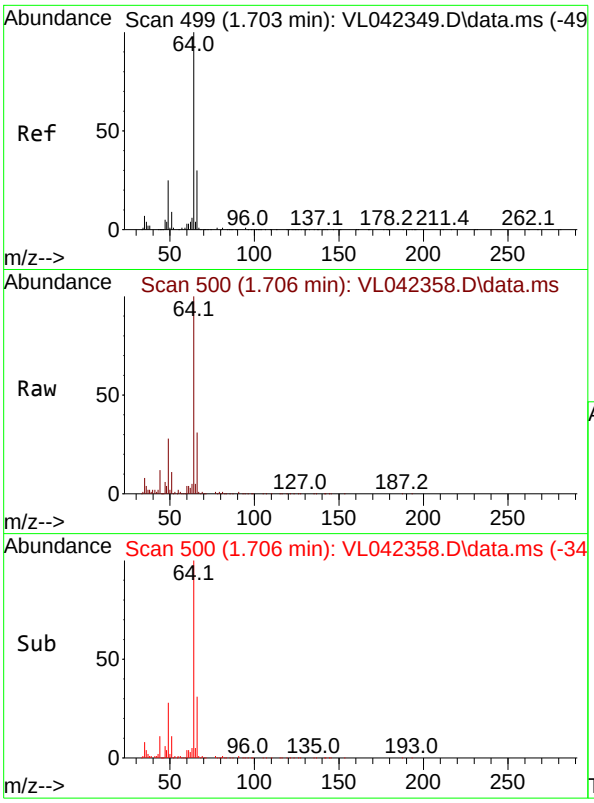


#6
Bromomethane
Concen: 9.235 ppbv
RT: 1.670 min Scan# 489
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 94 Resp: 36951

Ion	Ratio	Lower	Upper
94	100		
96	97.7	66.2	99.2



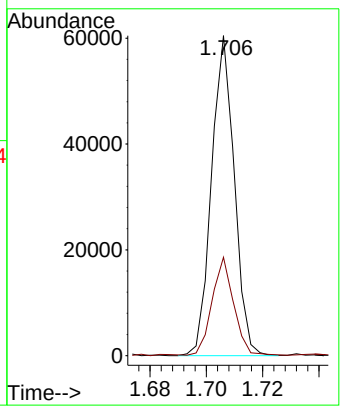


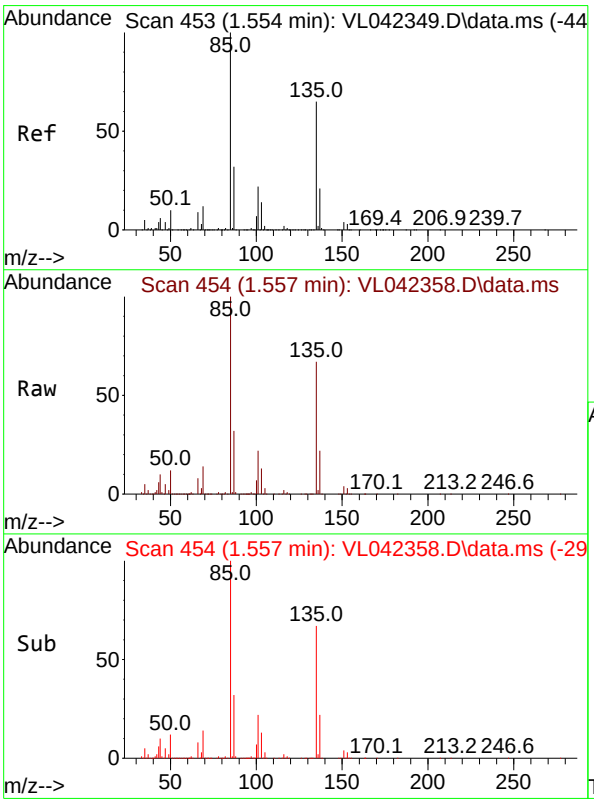
#7
Chloroethane
Concen: 10.075 ppbv
RT: 1.706 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01

Tgt Ion: 64 Resp: 33936

Ion	Ratio	Lower	Upper
64	100		
66	30.7	24.6	37.0

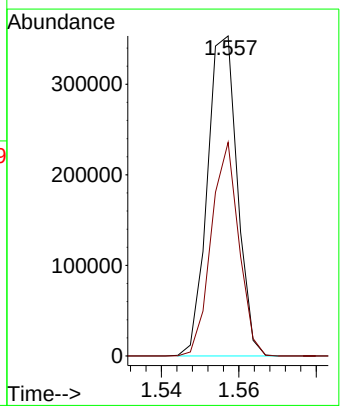


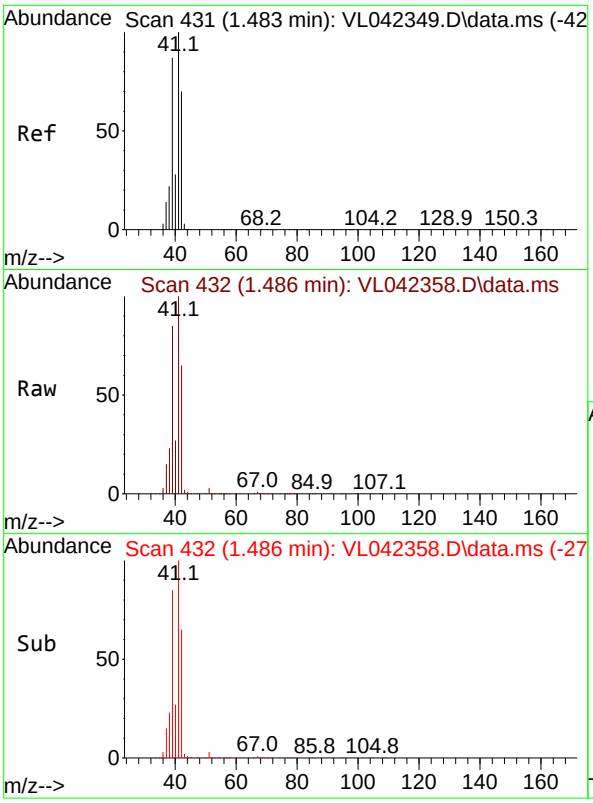


#8
Dichlorotetrafluoroethane
Concen: 10.231 ppbv
RT: 1.557 min Scan# 454
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 85 Resp: 189924

Ion	Ratio	Lower	Upper
85	100		
135	61.4	52.2	78.2



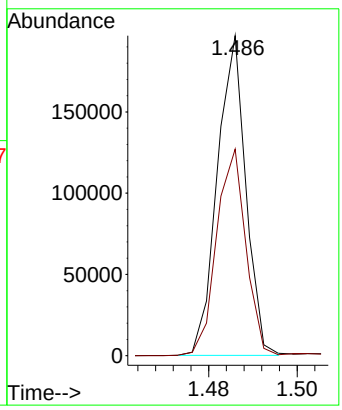


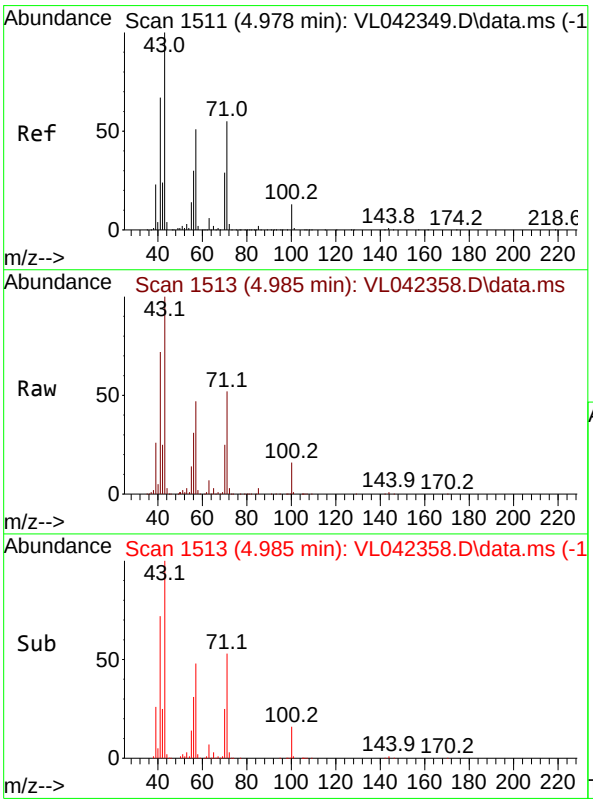
#9
Propene
Concen: 9.395 ppbv
RT: 1.486 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01

Tgt Ion: 41 Resp: 88088

Ion	Ratio	Lower	Upper
41	100		
42	68.4	56.2	84.4

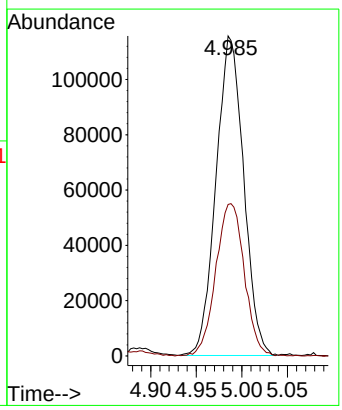


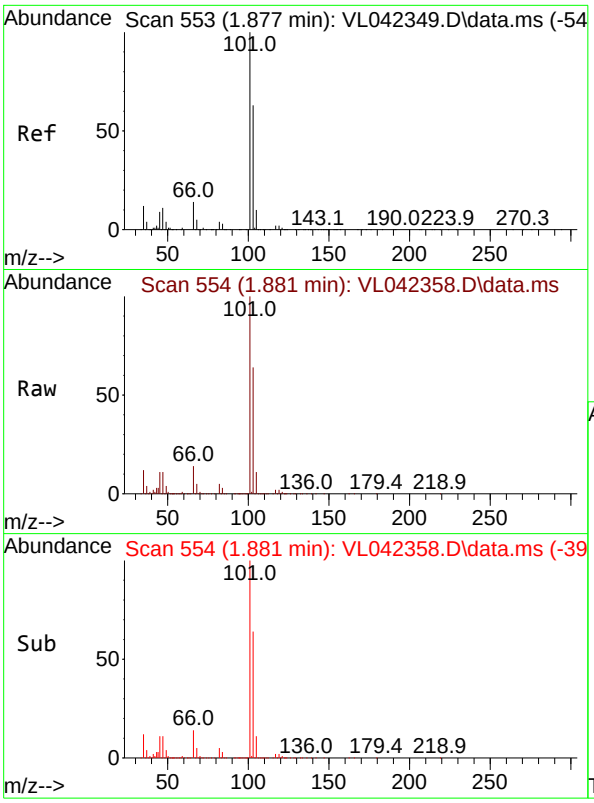


#10
Heptane
Concen: 9.244 ppbv
RT: 4.985 min Scan# 1513
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 43 Resp: 243501

Ion	Ratio	Lower	Upper
43	100		
57	49.4	39.9	59.9



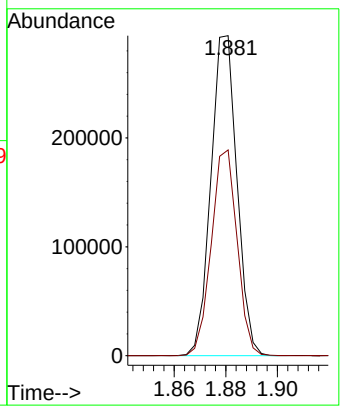


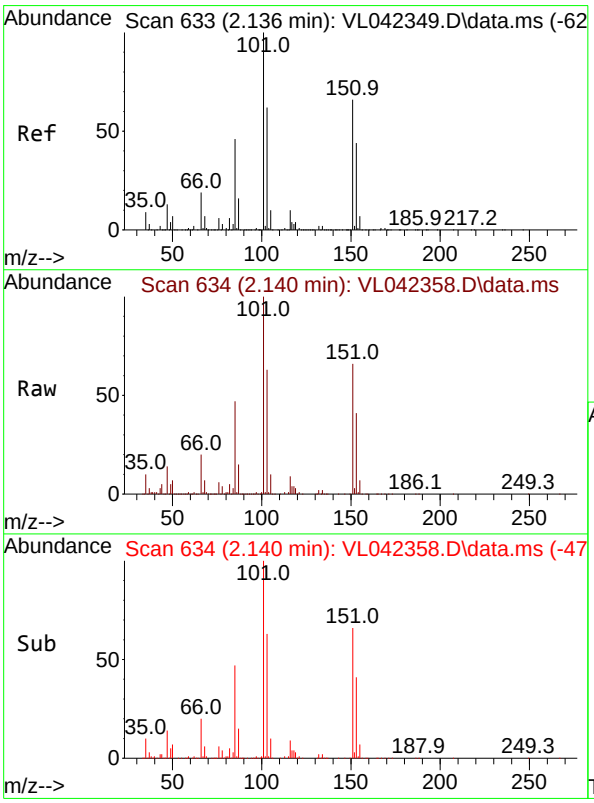
#11
Trichlorofluoromethane
Concen: 10.050 ppbv
RT: 1.881 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01

Tgt Ion:101 Resp: 206645

Ion	Ratio	Lower	Upper
101	100		
103	64.3	50.1	75.1

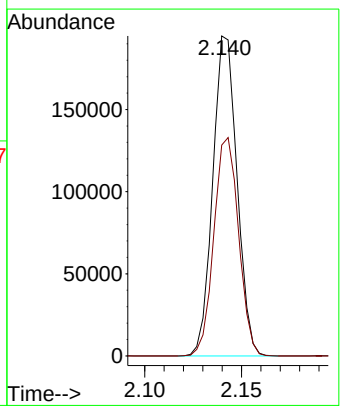


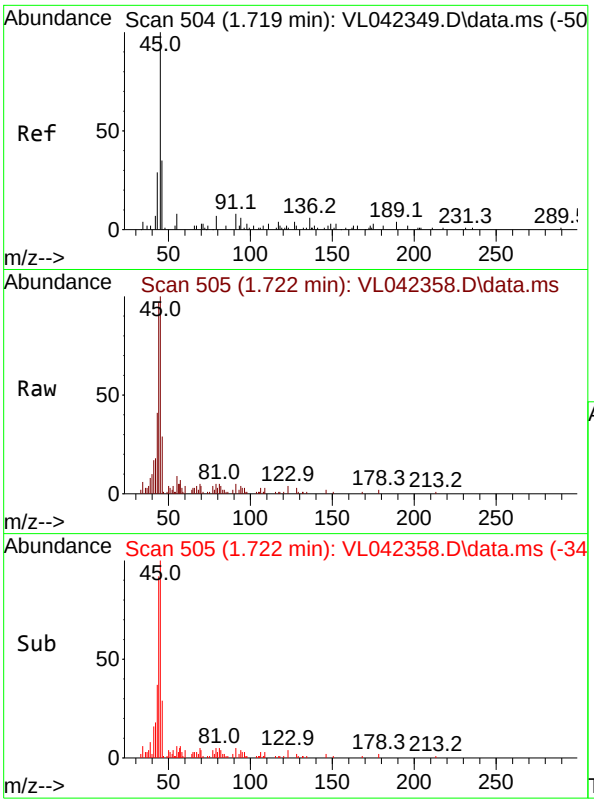


#12
1,1,2-Trichlorotrifluoroethane
Concen: 10.083 ppbv
RT: 2.140 min Scan# 634
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion:101 Resp: 169501

Ion	Ratio	Lower	Upper
101	100		
151	69.6	57.0	85.6



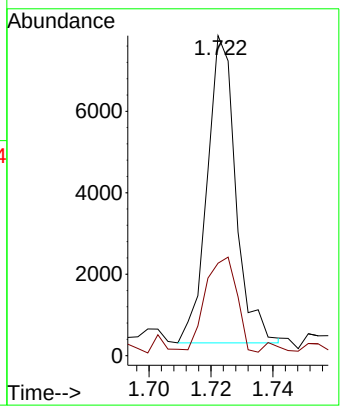


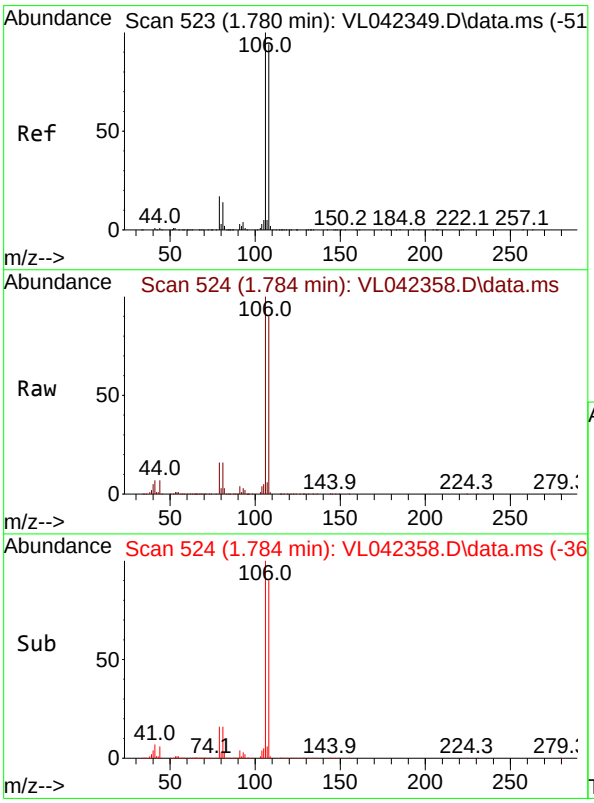
#13
Ethanol
Concen: 3.246 ppbv
RT: 1.722 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01

Tgt Ion: 45 Resp: 4837

Ion	Ratio	Lower	Upper
45	100		
46	45.8	21.9	87.7

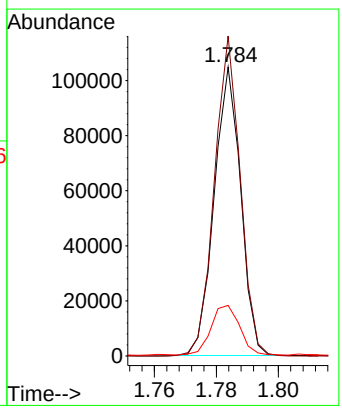


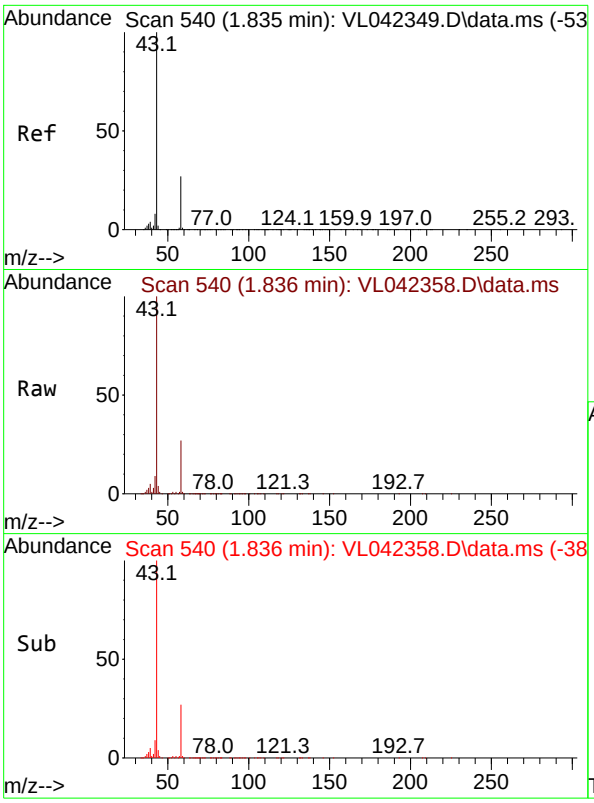


#14
Bromoethene
Concen: 9.818 ppbv
RT: 1.784 min Scan# 524
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion:108 Resp: 62214

Ion	Ratio	Lower	Upper
108	100		
106	108.2	85.9	128.9
79	20.6	13.9	20.9



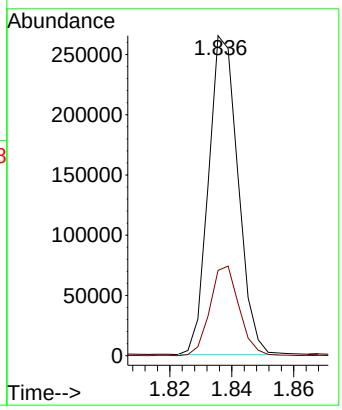


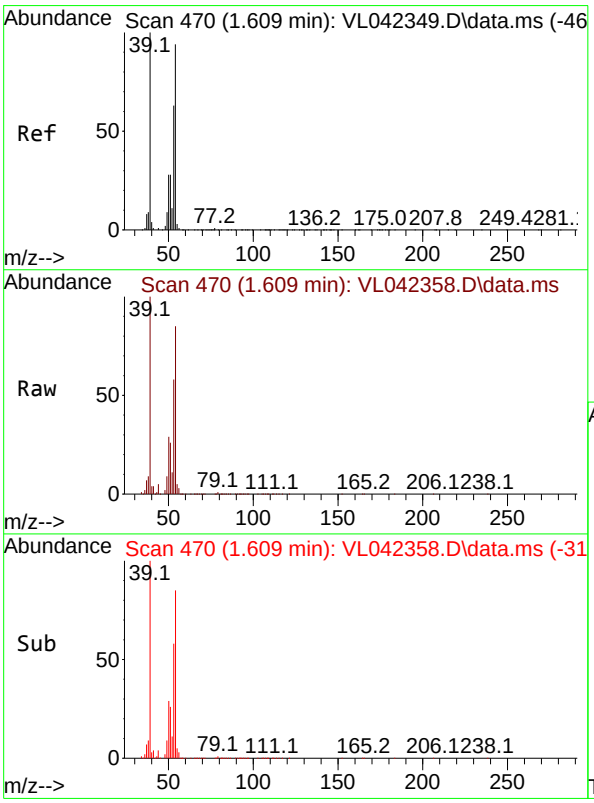
#15
Acetone
Concen: 8.743 ppbv
RT: 1.836 min Scan# 54
Delta R.T. 0.000 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01

Tgt Ion: 43 Resp: 175153

Ion	Ratio	Lower	Upper
43	100		
58	27.9	22.4	33.6

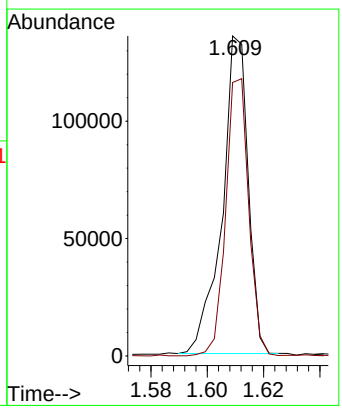


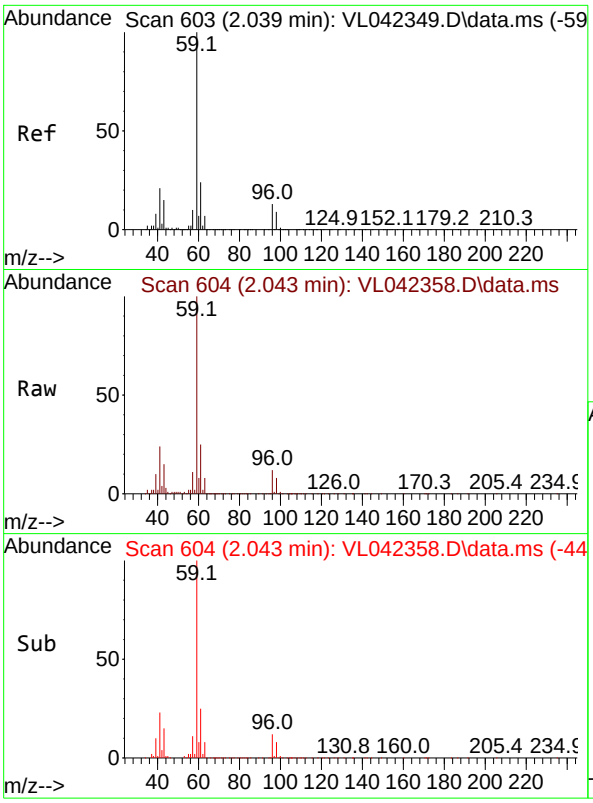


#16
1,3-Butadiene
Concen: 9.076 ppbv
RT: 1.609 min Scan# 470
Delta R.T. 0.000 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 39 Resp: 86965

Ion	Ratio	Lower	Upper
39	100		
54	77.9	64.9	97.3



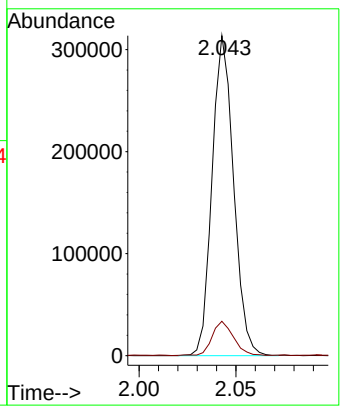


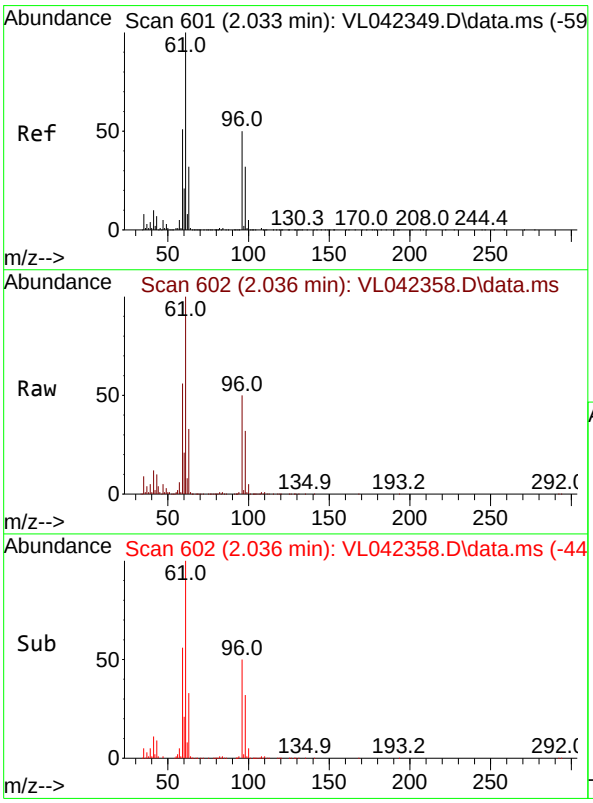
#17
tert-Butyl alcohol
Concen: 9.754 ppbv
RT: 2.043 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01

Tgt Ion: 59 Resp: 242154

Ion	Ratio	Lower	Upper
59	100		
57	10.9	8.7	13.1

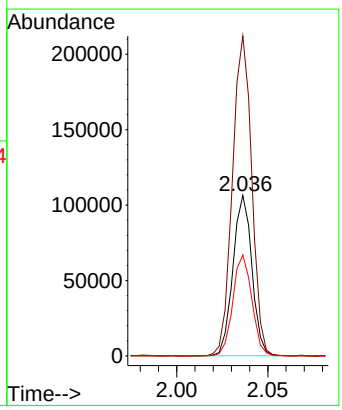


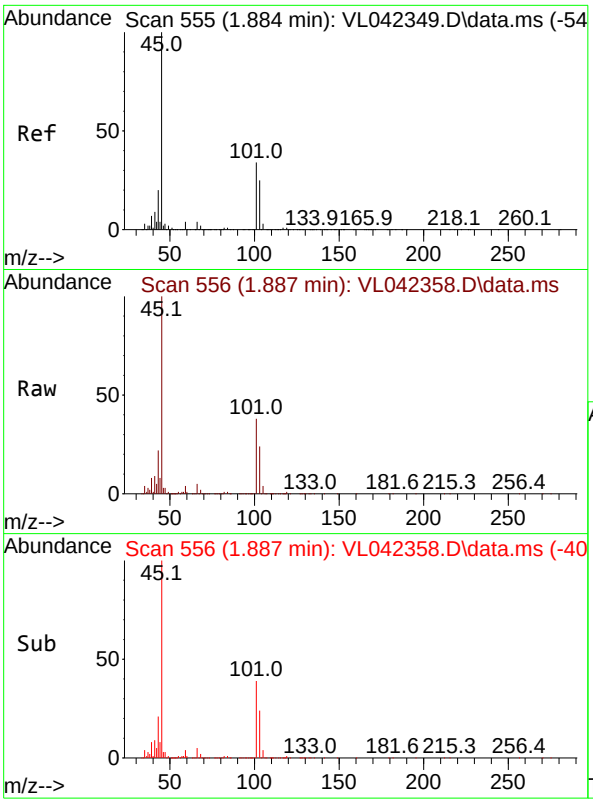


#18
1,1-Dichloroethene
Concen: 9.836 ppbv
RT: 2.036 min Scan# 602
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 96 Resp: 77247

Ion	Ratio	Lower	Upper
96	100		
61	199.6	160.2	240.2
98	63.0	51.0	76.4



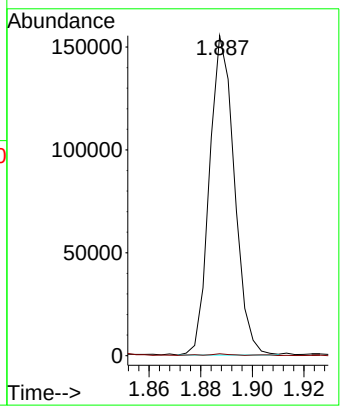


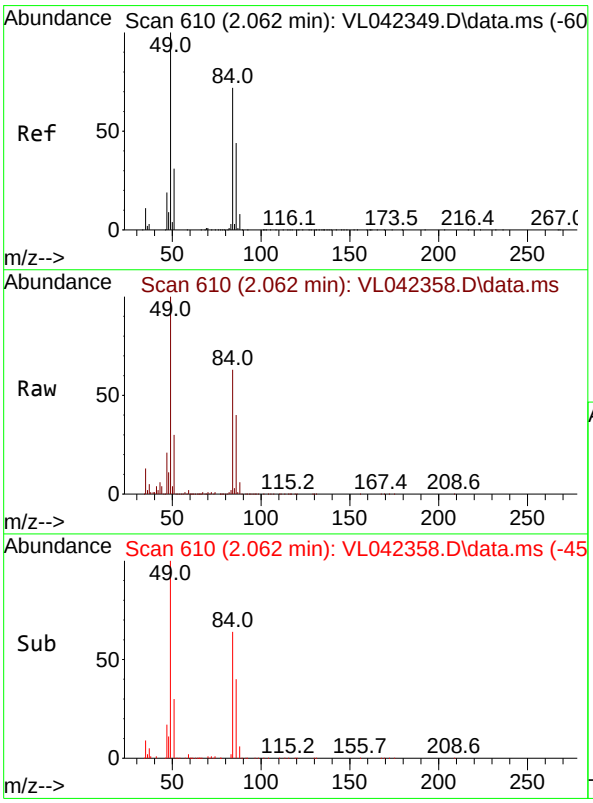
#19
Isopropyl Alcohol
Concen: 9.356 ppbv
RT: 1.887 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01

Tgt Ion: 45 Resp: 104123

Ion	Ratio	Lower	Upper
45	100		
58	46.9	34.5	51.7

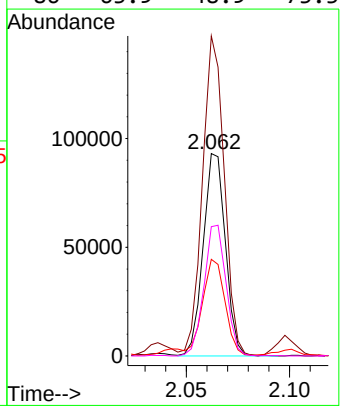


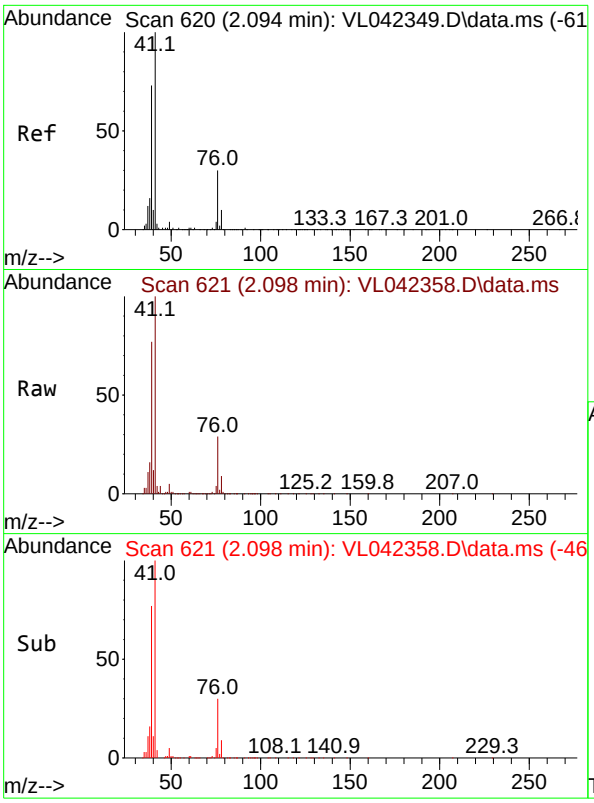


#20
Methylene Chloride
Concen: 8.865 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.000 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 84 Resp: 69548

Ion	Ratio	Lower	Upper
84	100		
49	156.3	111.6	167.4
51	45.9	35.1	52.7
86	63.9	48.9	73.3



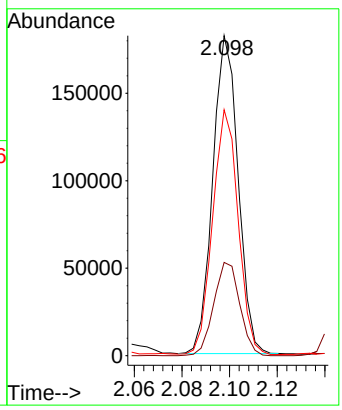


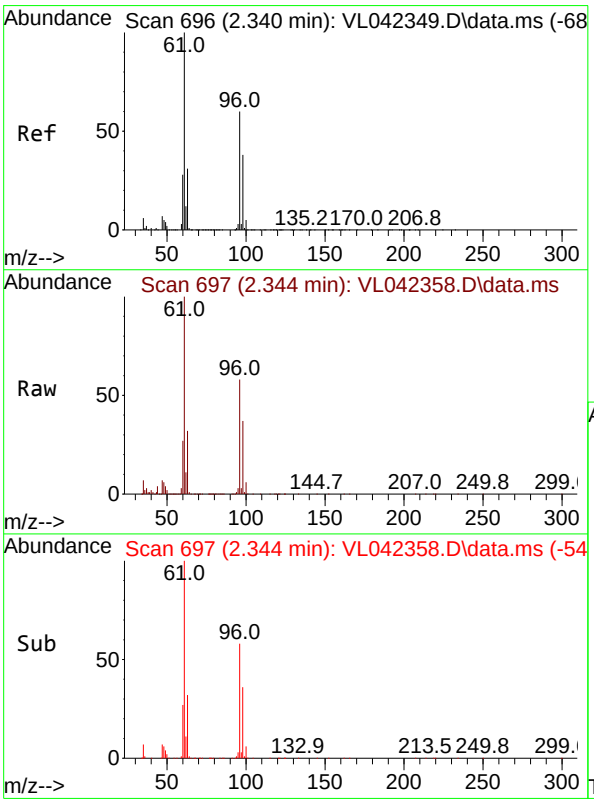
#21
Allyl Chloride
Concen: 9.704 ppbv
RT: 2.098 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01

Tgt Ion: 41 Resp: 134221

Ion	Ratio	Lower	Upper
41	100		
76	30.1	24.8	37.2
39	76.8	60.6	90.8

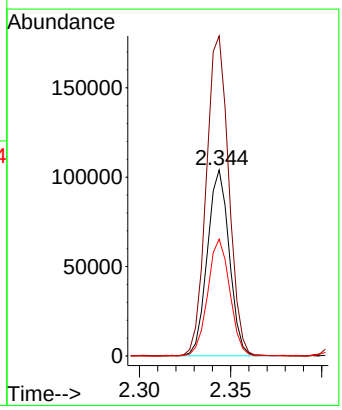


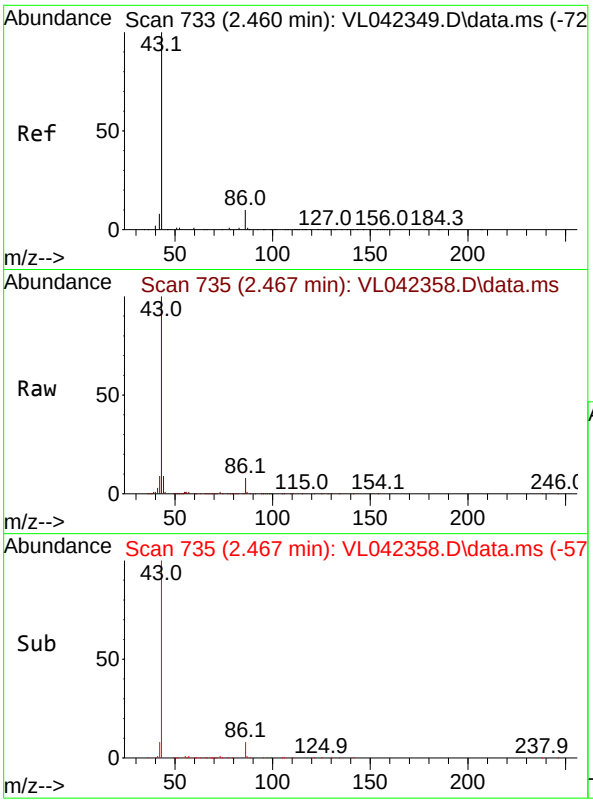


#22
trans-1,2-Dichloroethene
Concen: 9.653 ppbv
RT: 2.344 min Scan# 697
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 96 Resp: 86323

Ion	Ratio	Lower	Upper
96	100		
61	172.1	133.7	200.5
98	62.9	50.3	75.5



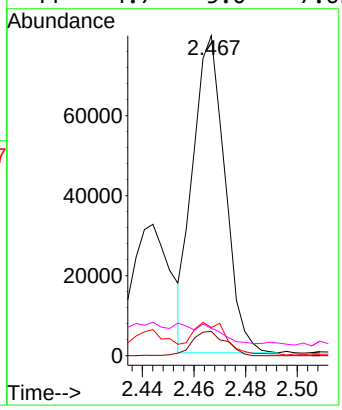


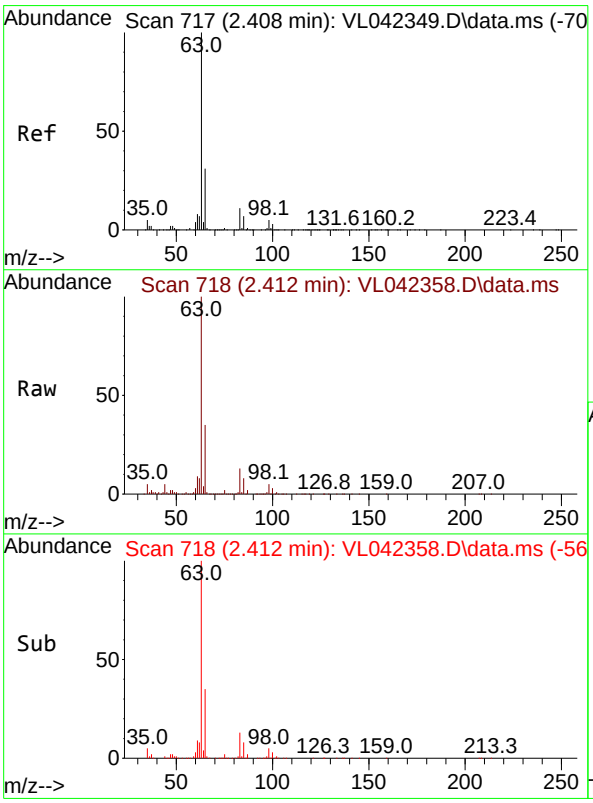
#23
Vinyl Acetate
Concen: 8.427 ppbv
RT: 2.467 min Scan# 7
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01

Tgt Ion: 43 Resp: 68337

Ion	Ratio	Lower	Upper
43	100		
86	7.7	6.5	9.7
42	8.3	7.8	11.8
44	4.7	5.0	7.6#

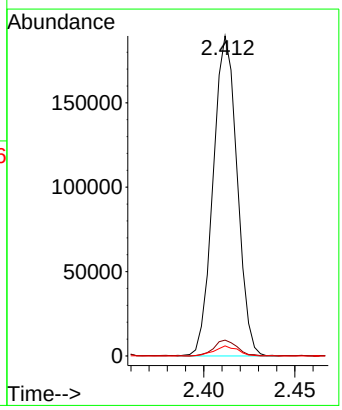


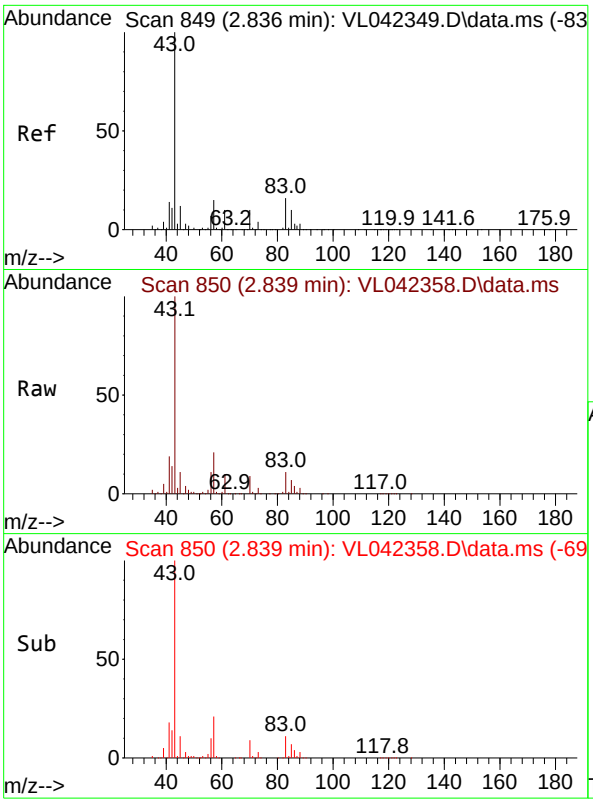


#24
1,1-Dichloroethane
Concen: 10.199 ppbv
RT: 2.412 min Scan# 718
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 63 Resp: 173238

Ion	Ratio	Lower	Upper
63	100		
98	4.9	2.3	6.8
100	3.1	1.6	4.8



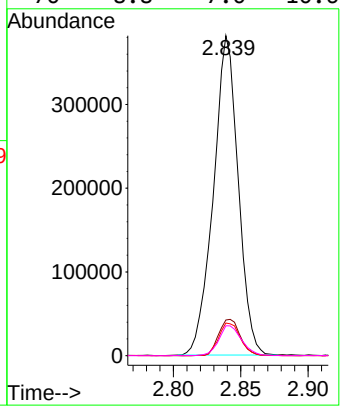


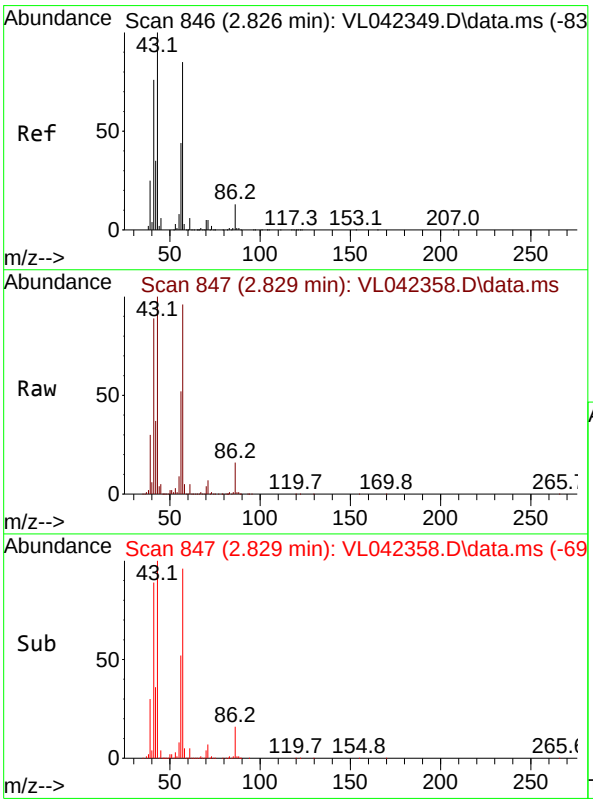
#25
Ethyl Acetate
Concen: 9.894 ppbv
RT: 2.839 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01

Tgt Ion: 43 Resp: 488686

Ion	Ratio	Lower	Upper
43	100		
45	10.1	8.3	12.5
61	9.0	7.3	10.9
70	8.8	7.0	10.6

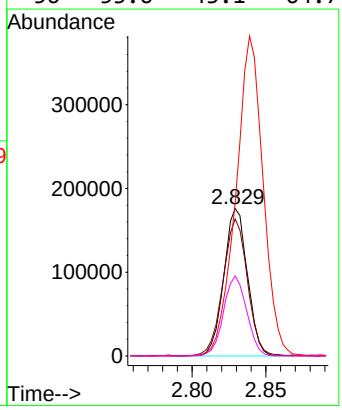


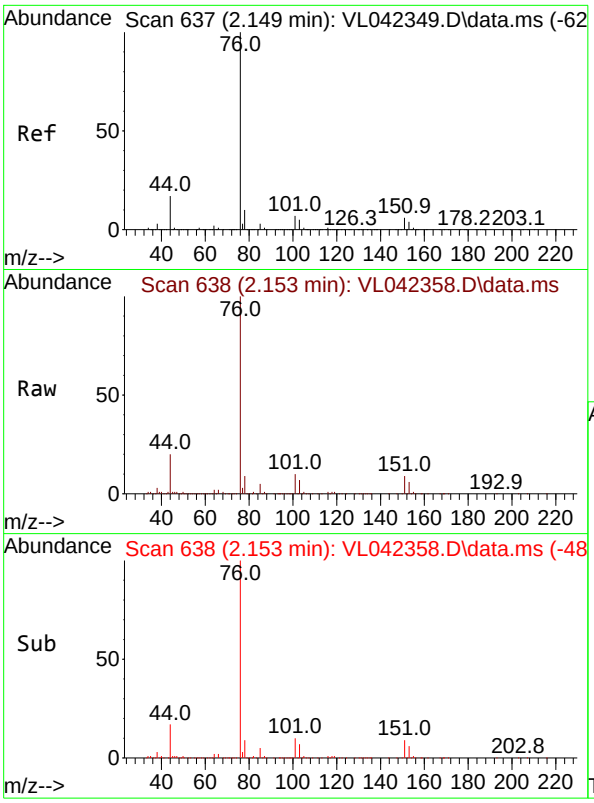


#26
Hexane
Concen: 9.761 ppbv
RT: 2.829 min Scan# 847
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 57 Resp: 195124

Ion	Ratio	Lower	Upper
57	100		
41	96.9	77.9	116.9
43	251.9	208.4	312.6
56	53.6	43.1	64.7



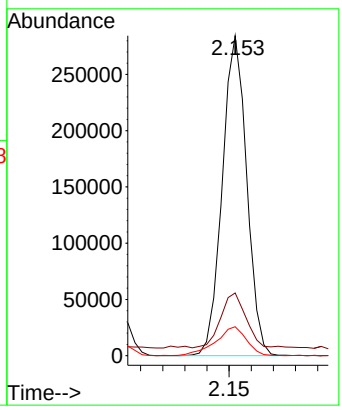


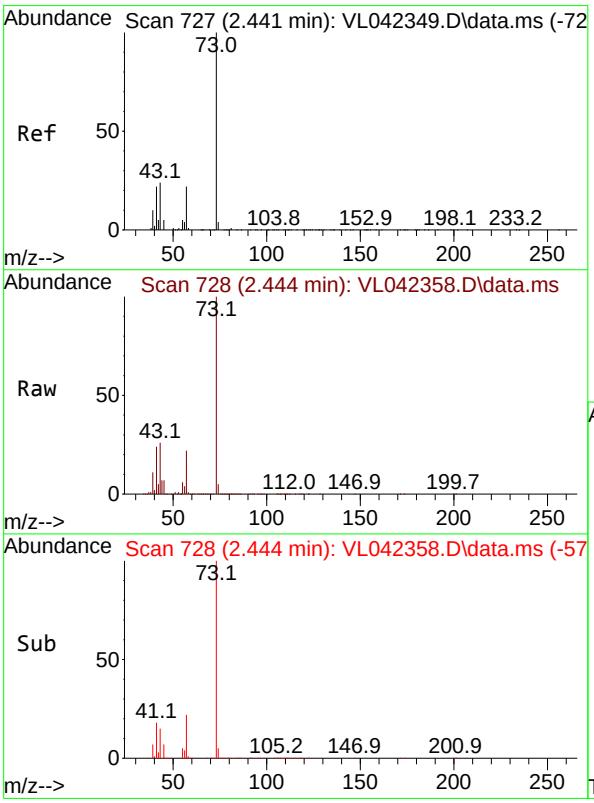
#27
Carbon Disulfide
Concen: 10.202 ppbv
RT: 2.153 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01

Tgt Ion: 76 Resp: 218345

Ion	Ratio	Lower	Upper
76	100		
44	21.6	15.5	23.3
78	11.4	9.3	13.9

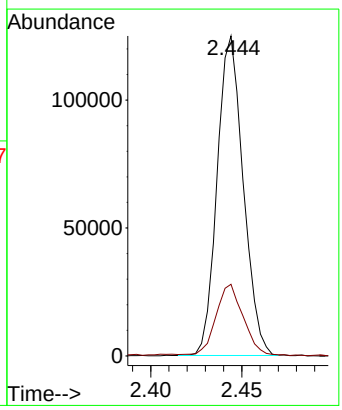


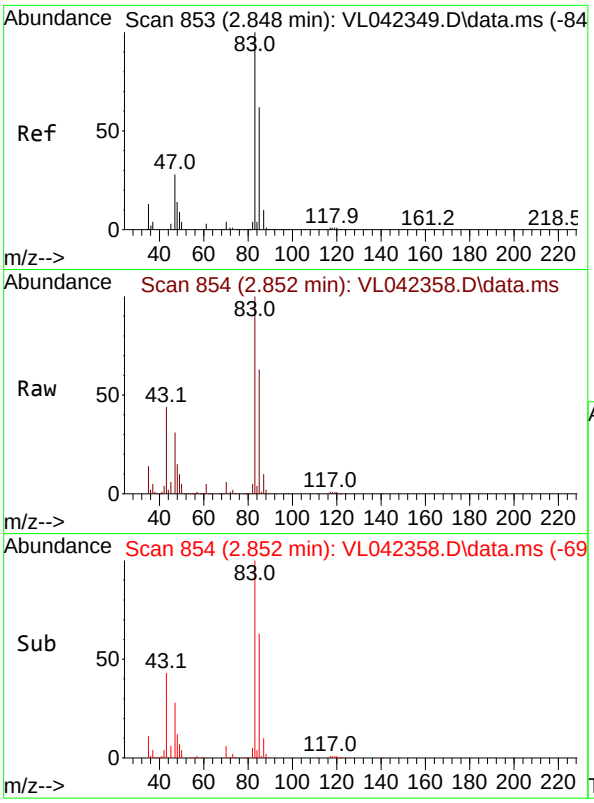


#28
Methyl tert-Butyl Ether
Concen: 9.510 ppbv
RT: 2.444 min Scan# 728
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 73 Resp: 124554

Ion	Ratio	Lower	Upper
73	100		
57	24.5	21.3	31.9



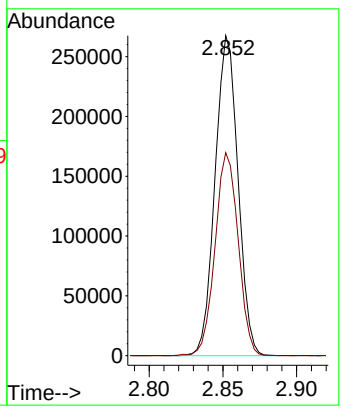


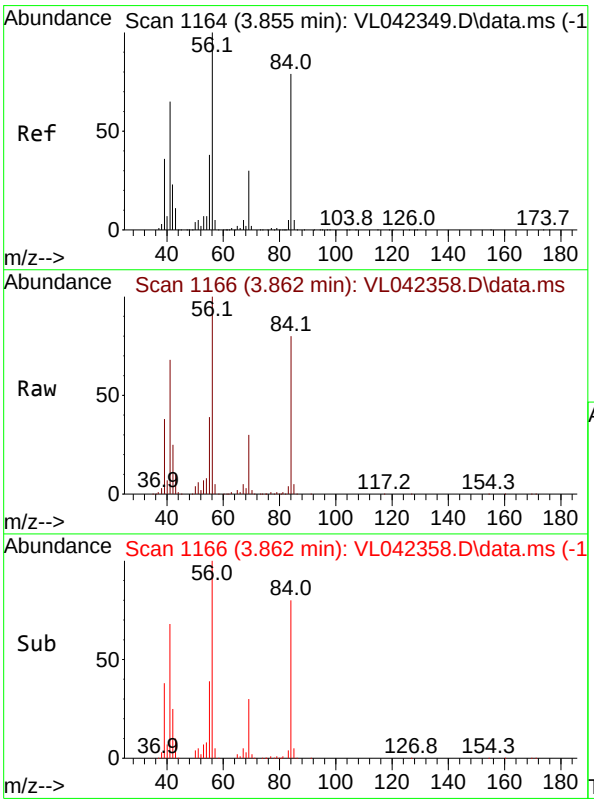
#29
Chloroform
Concen: 10.239 ppbv
RT: 2.852 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01

Tgt Ion: 83 Resp: 289294

Ion	Ratio	Lower	Upper
83	100		
85	63.4	50.0	75.0

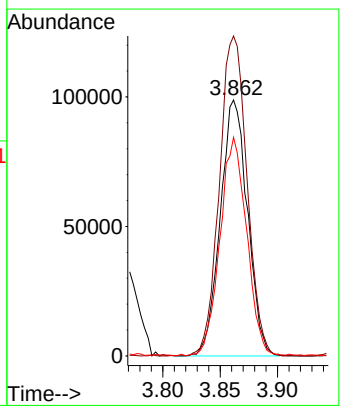


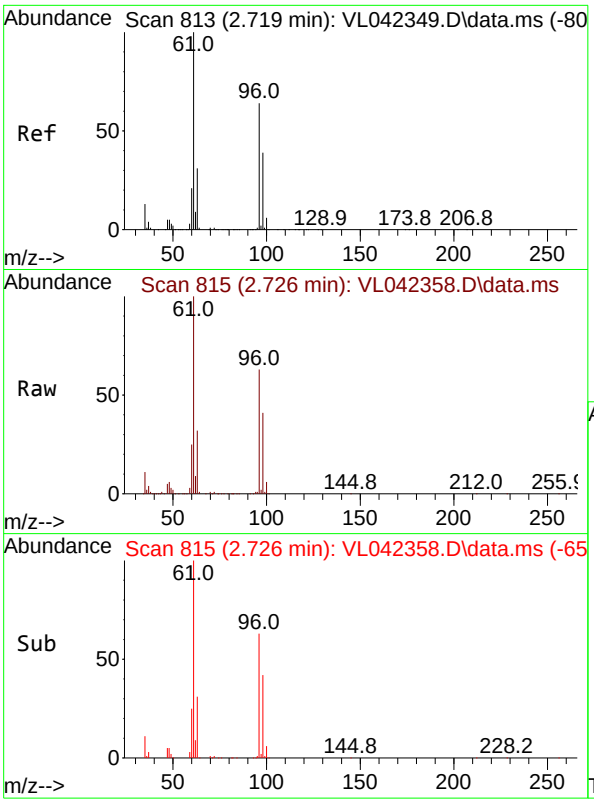


#30
Cyclohexane
Concen: 10.088 ppbv
RT: 3.862 min Scan# 1166
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 84 Resp: 163017

Ion	Ratio	Lower	Upper
84	100		
56	126.7	101.0	151.4
41	83.8	67.4	101.0



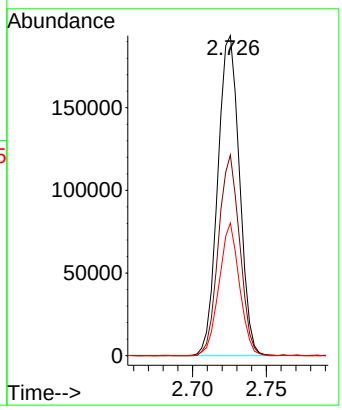


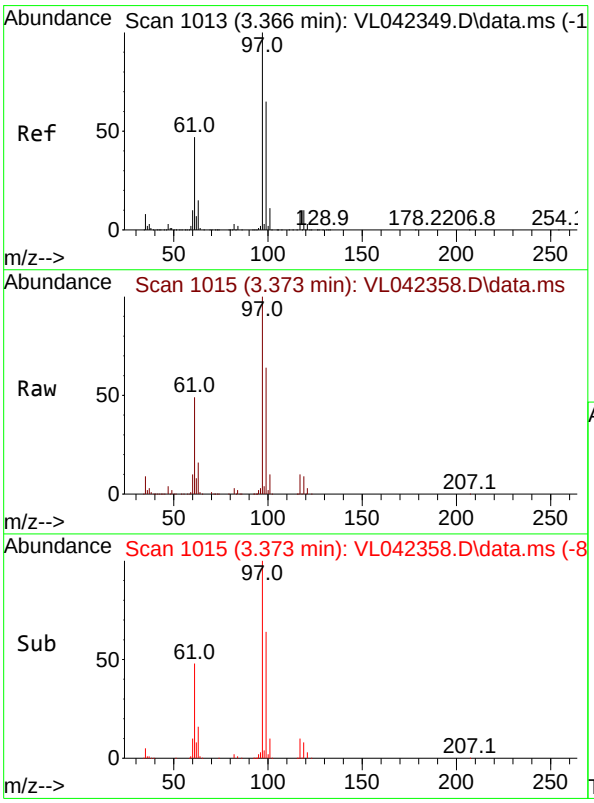
#31
cis-1,2-Dichloroethene
Concen: 10.424 ppbv
RT: 2.726 min Scan# 8
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01

Tgt Ion: 61 Resp: 198108

Ion	Ratio	Lower	Upper
61	100		
96	62.8	50.8	76.2
98	41.4	30.9	46.3

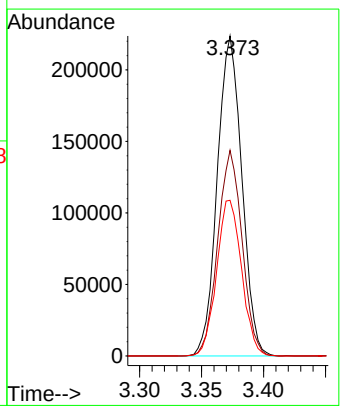


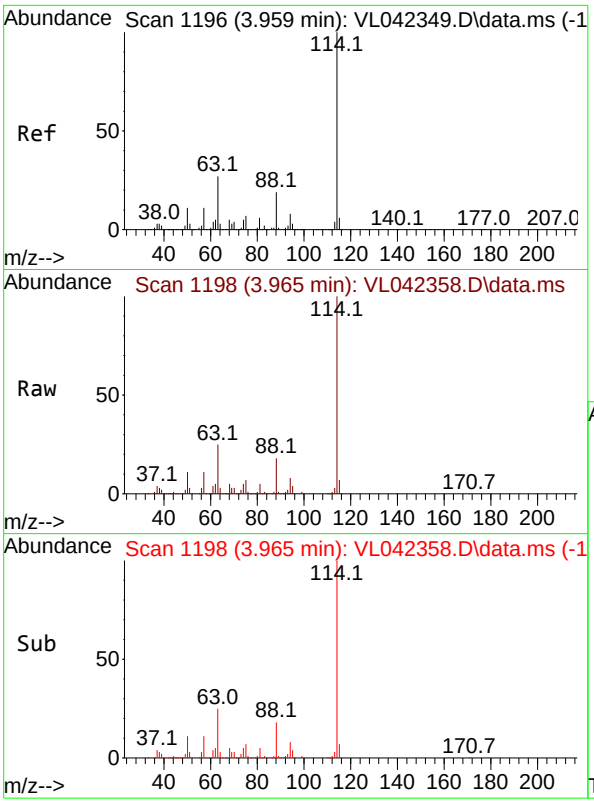


#32
1,1,1-Trichloroethane
Concen: 9.729 ppbv
RT: 3.373 min Scan# 1015
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 97 Resp: 309460

Ion	Ratio	Lower	Upper
97	100		
99	63.7	51.0	76.4
61	49.5	38.8	58.2



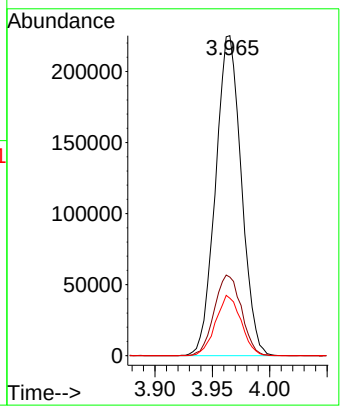


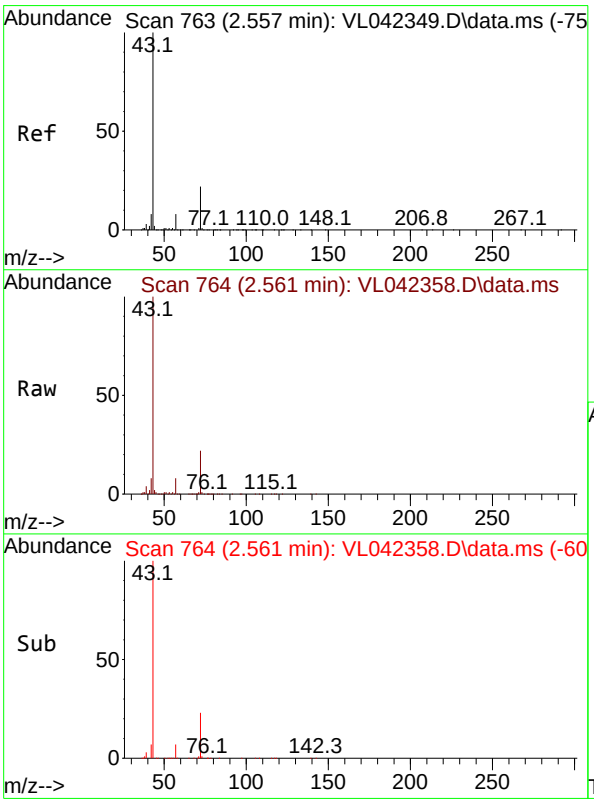
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.965 min Scan# 11
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01

Tgt Ion:114 Resp: 352201

Ion	Ratio	Lower	Upper
114	100		
63	26.4	21.8	32.6
88	18.6	15.5	23.3

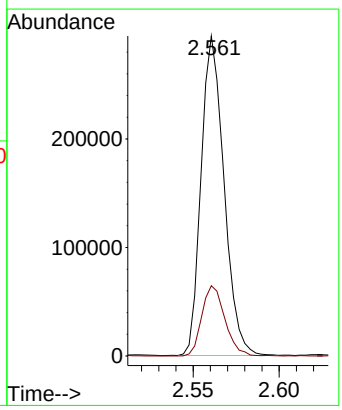


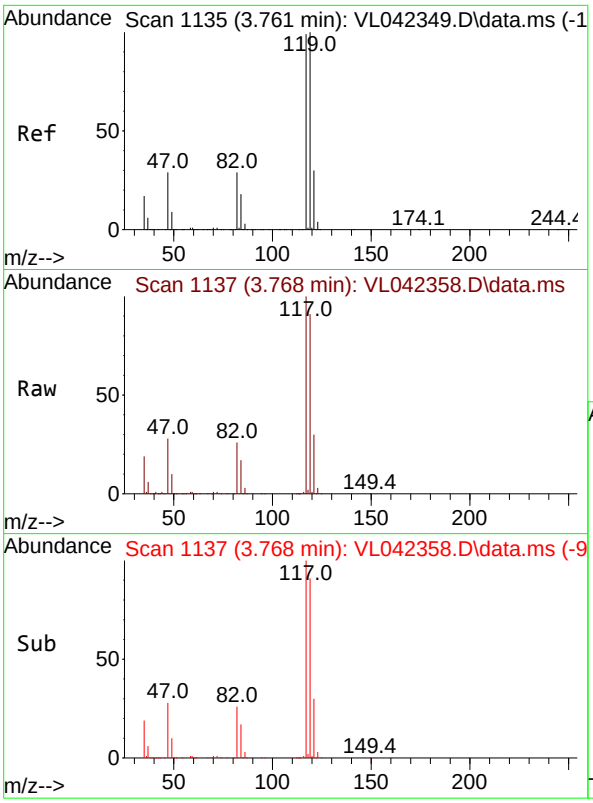


#34
2-Butanone
Concen: 9.787 ppbv
RT: 2.561 min Scan# 764
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 43 Resp: 272600

Ion	Ratio	Lower	Upper
43	100		
72	22.2	18.2	27.2



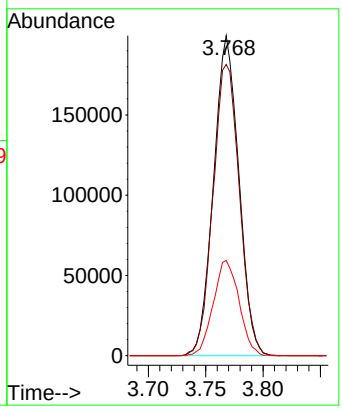


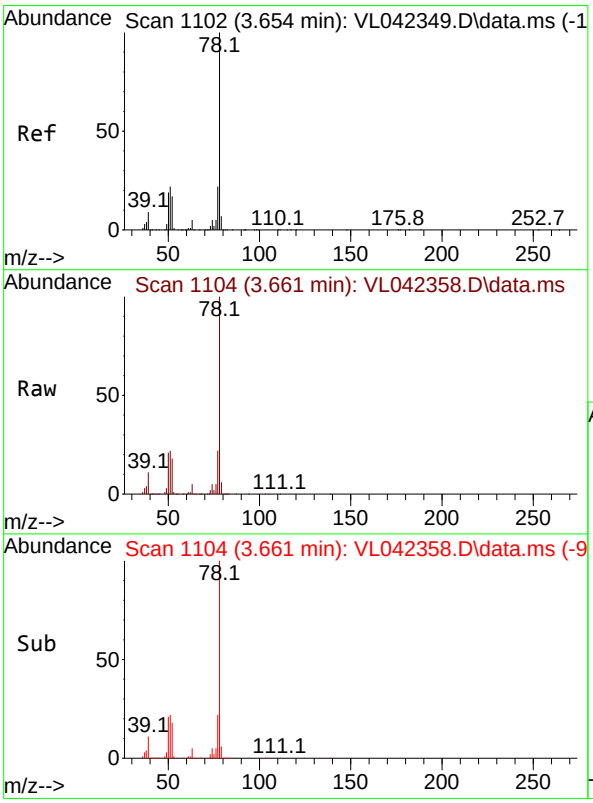
#35
Carbon Tetrachloride
Concen: 9.576 ppbv
RT: 3.768 min Scan# 1
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01

Tgt Ion:117 Resp: 305245

Ion	Ratio	Lower	Upper
117	100		
119	91.0	80.5	120.7
121	29.8	24.2	36.2

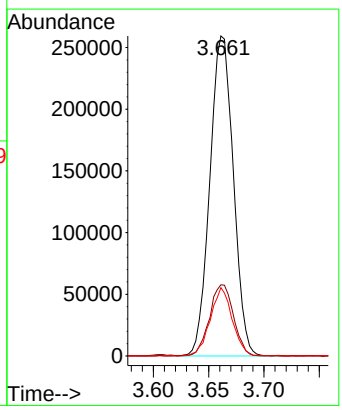


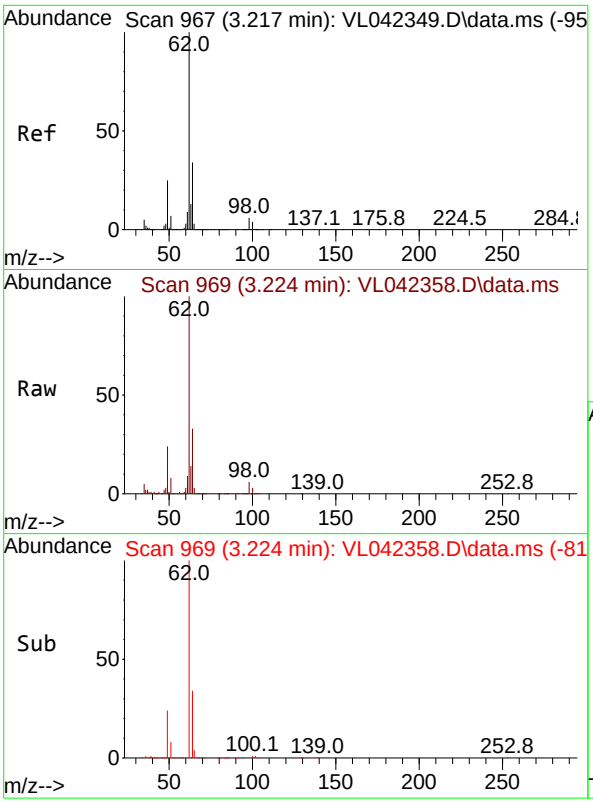


#36
Benzene
Concen: 10.088 ppbv
RT: 3.661 min Scan# 1104
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 78 Resp: 383239

Ion	Ratio	Lower	Upper
78	100		
77	22.1	17.4	26.0
50	21.3	15.5	23.3



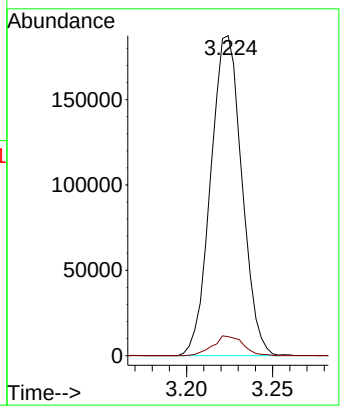


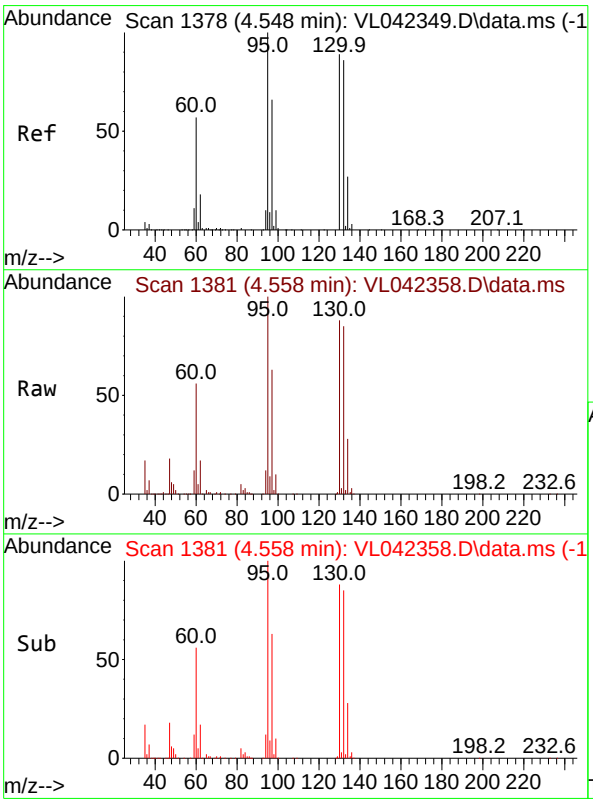
#37
1,2-Dichloroethane
Concen: 10.377 ppbv
RT: 3.224 min Scan# 9
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01

Tgt Ion: 62 Resp: 236611

Ion	Ratio	Lower	Upper
62	100		
98	6.0	5.1	7.7

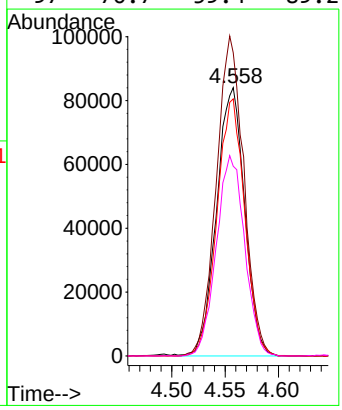


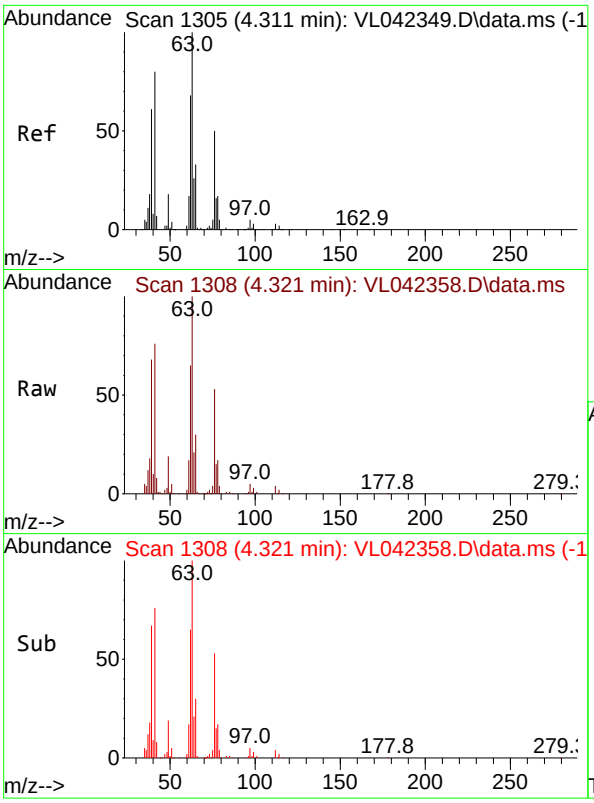


#38
Trichloroethene
Concen: 9.251 ppbv
RT: 4.558 min Scan# 1381
Delta R.T. 0.010 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion:130 Resp: 153596

Ion	Ratio	Lower	Upper
130	100		
95	113.0	89.8	134.6
132	95.8	77.7	116.5
97	70.7	59.4	89.2



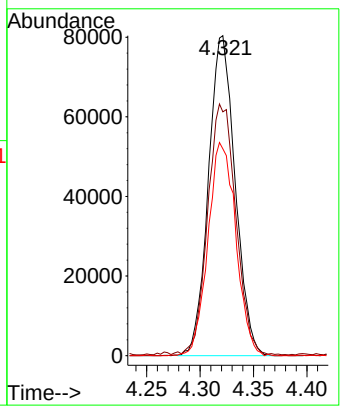


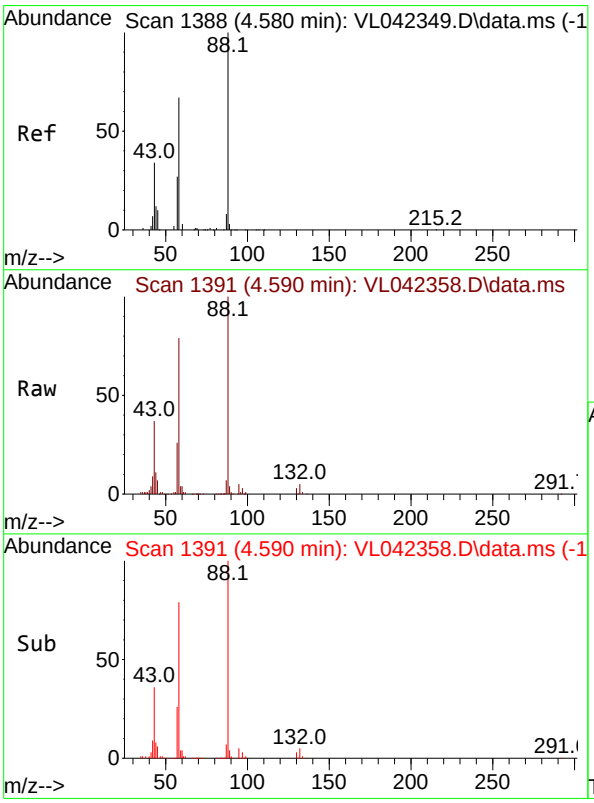
#39
1,2-Dichloropropane
Concen: 9.866 ppbv
RT: 4.321 min Scan# 1
Delta R.T. 0.010 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01

Tgt Ion: 63 Resp: 139669

Ion	Ratio	Lower	Upper
63	100		
41	75.7	64.2	96.2
62	64.6	54.3	81.5

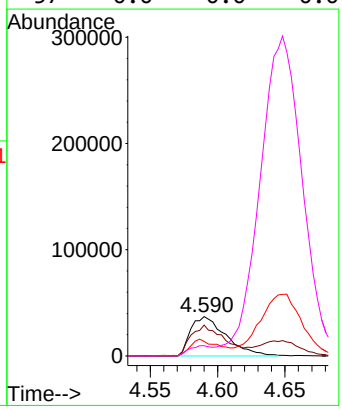


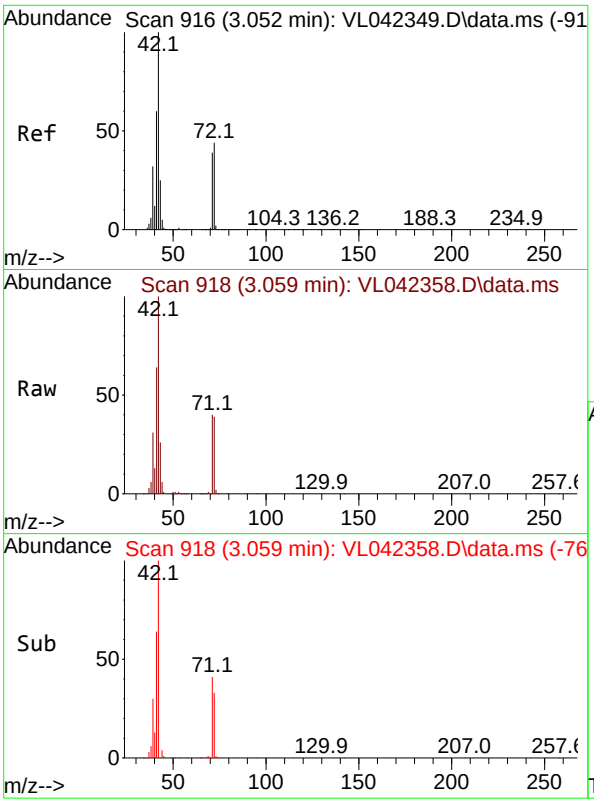


#40
1,4-Dioxane
Concen: 8.716 ppbv
RT: 4.590 min Scan# 1391
Delta R.T. 0.010 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 88 Resp: 67808

Ion	Ratio	Lower	Upper
88	100		
58	75.4	61.4	92.0
43	37.1	23.2	34.8#
57	0.0	0.0	0.0



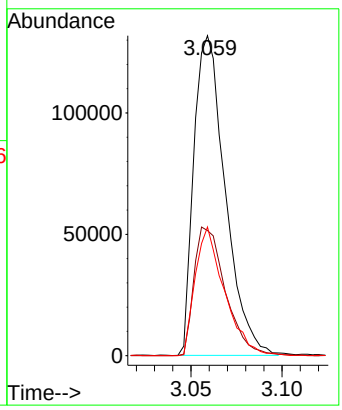


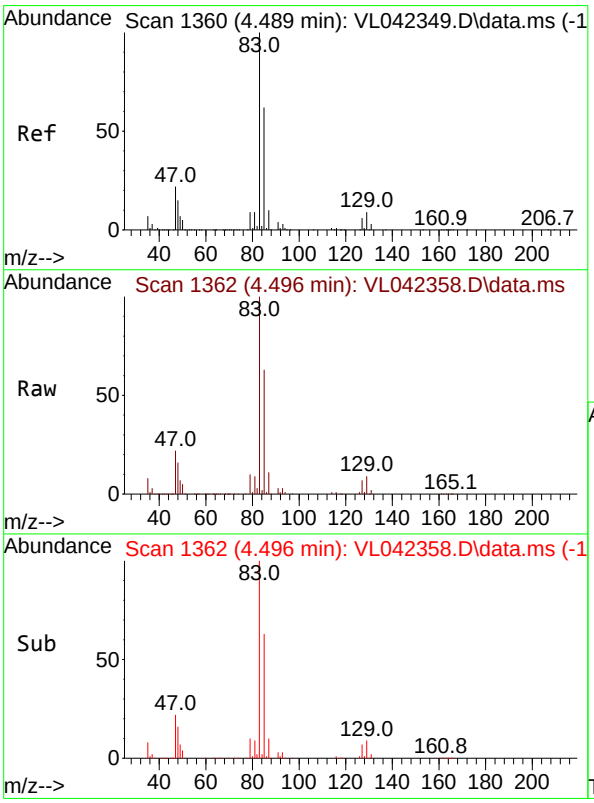
#41
Tetrahydrofuran
Concen: 9.715 ppbv
RT: 3.059 min Scan# 91
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01

Tgt Ion: 42 Resp: 157777

Ion	Ratio	Lower	Upper
42	100		
72	40.3	32.3	48.5
71	37.7	31.4	47.2

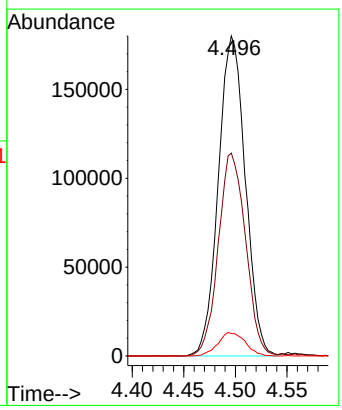


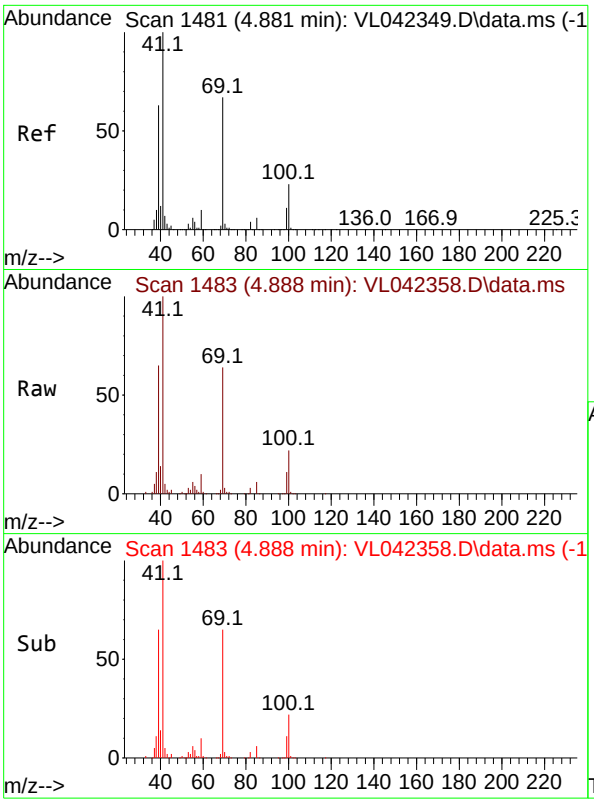


#42
Bromodichloromethane
Concen: 10.326 ppbv
RT: 4.496 min Scan# 1362
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 83 Resp: 327652

Ion	Ratio	Lower	Upper
83	100		
85	63.3	49.7	74.5
127	7.0	5.1	7.7



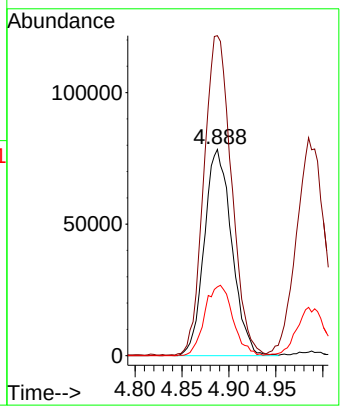


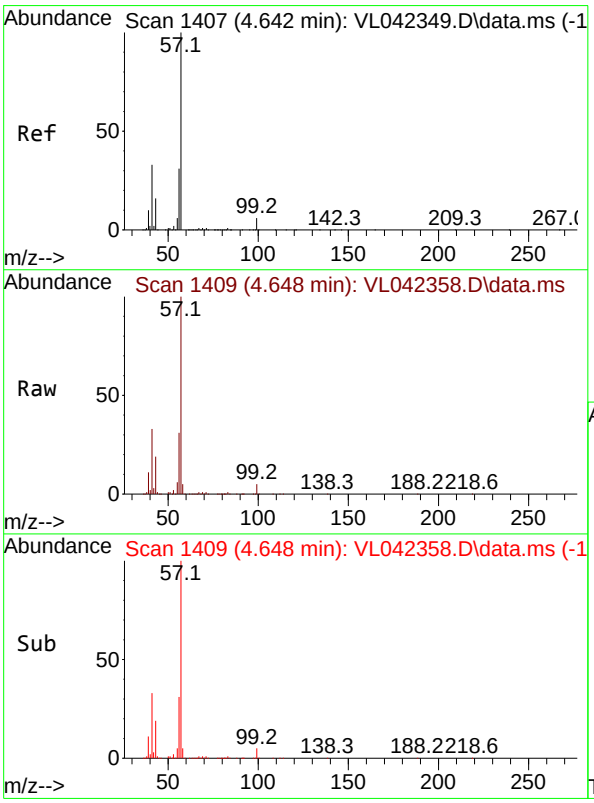
#43
Methyl Methacrylate
Concen: 9.304 ppbv
RT: 4.888 min Scan# 14
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01

Tgt Ion: 69 Resp: 159292

Ion	Ratio	Lower	Upper
69	100		
41	155.9	118.6	177.8
100	35.1	28.2	42.2

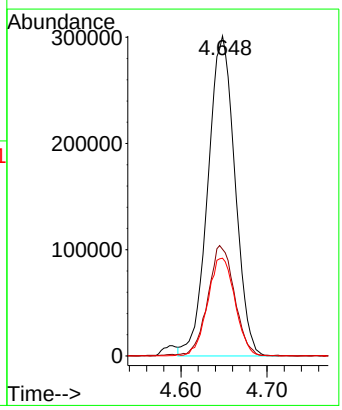


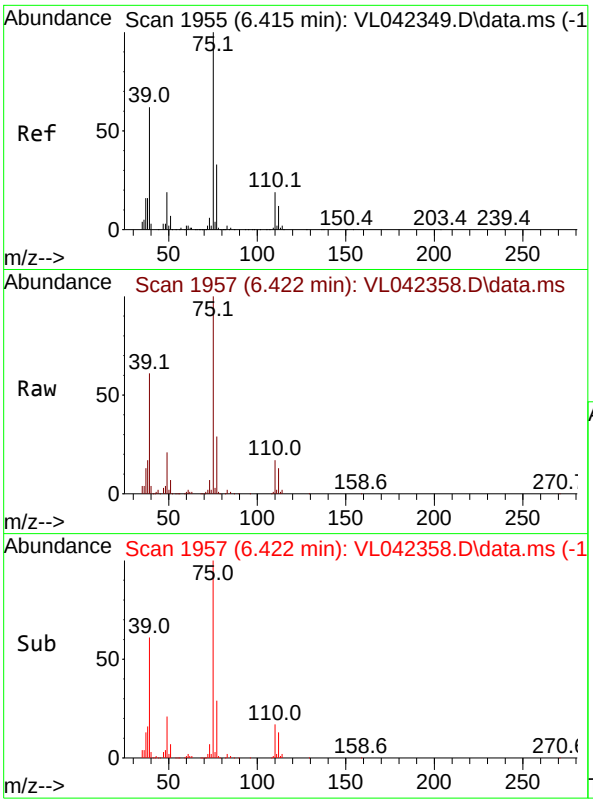


#44
2,2,4-Trimethylpentane
Concen: 10.019 ppbv
RT: 4.648 min Scan# 1409
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 57 Resp: 657377

Ion	Ratio	Lower	Upper
57	100		
41	34.2	27.2	40.8
56	31.1	25.7	38.5



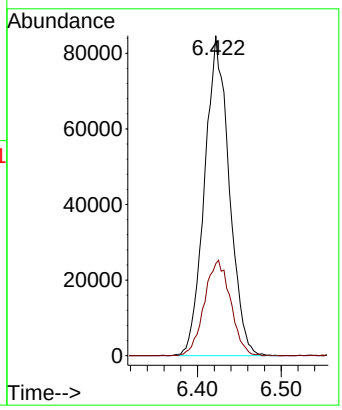


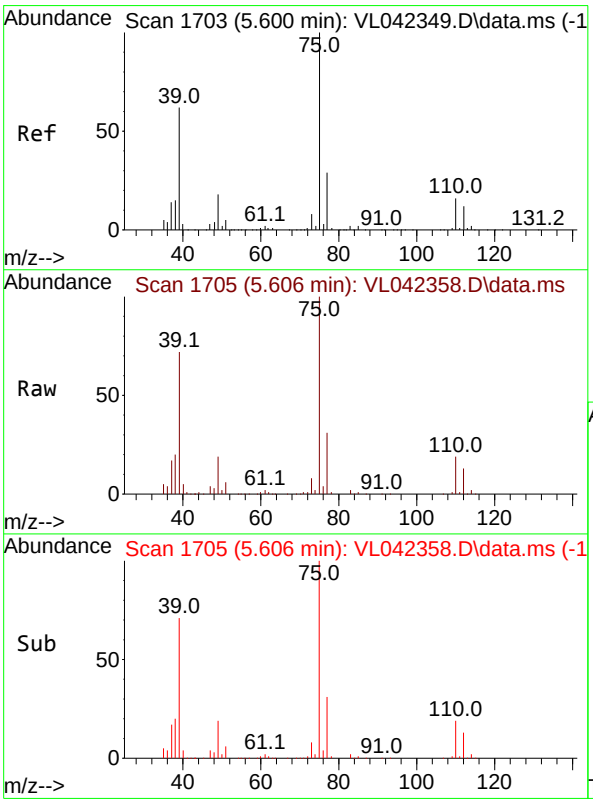
#45
t-1,3-Dichloropropene
Concen: 9.864 ppbv
RT: 6.422 min Scan# 1
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01

Tgt Ion: 75 Resp: 172514

Ion	Ratio	Lower	Upper
75	100		
77	28.7	27.0	40.6

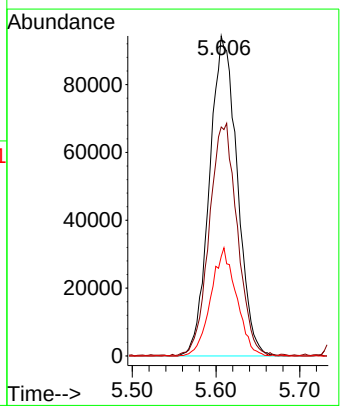


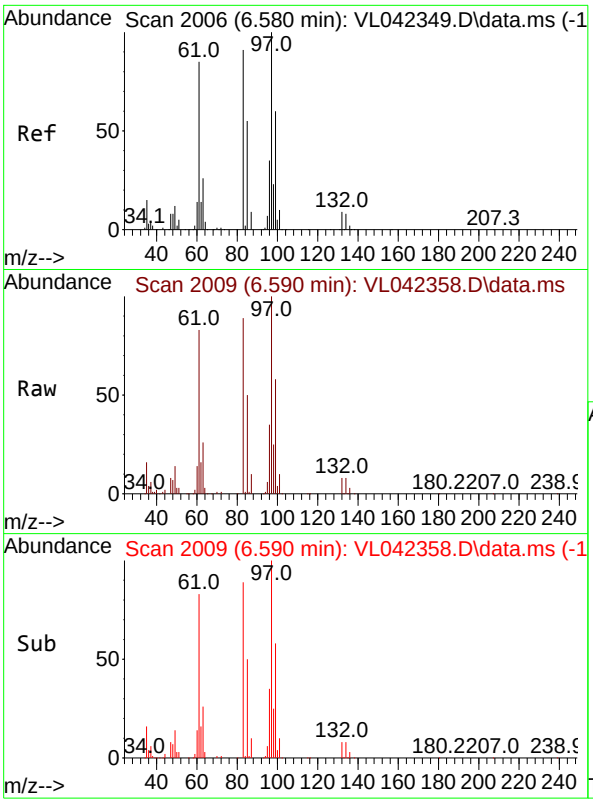


#46
cis-1,3-Dichloropropene
Concen: 10.133 ppbv
RT: 5.606 min Scan# 1705
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 75 Resp: 216901

Ion	Ratio	Lower	Upper
75	100		
39	71.3	50.0	75.0
77	31.1	23.0	34.6



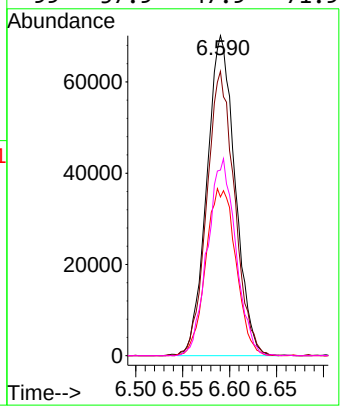


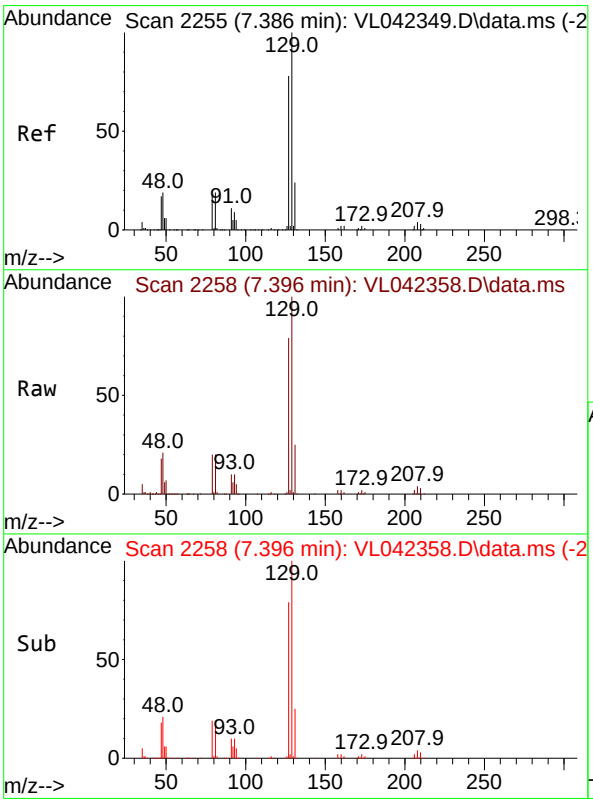
#47
1,1,2-Trichloroethane
Concen: 10.161 ppbv
RT: 6.590 min Scan# 2
Delta R.T. 0.010 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01

Tgt Ion: 97 Resp: 146547

Ion	Ratio	Lower	Upper
97	100		
83	88.7	72.8	109.2
85	49.6	44.2	66.4
99	57.9	47.9	71.9

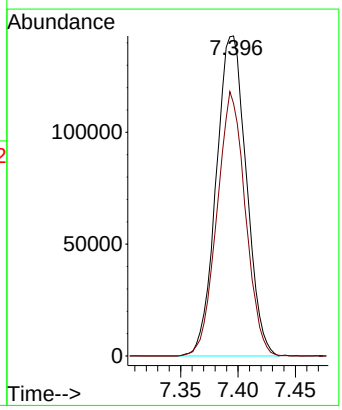


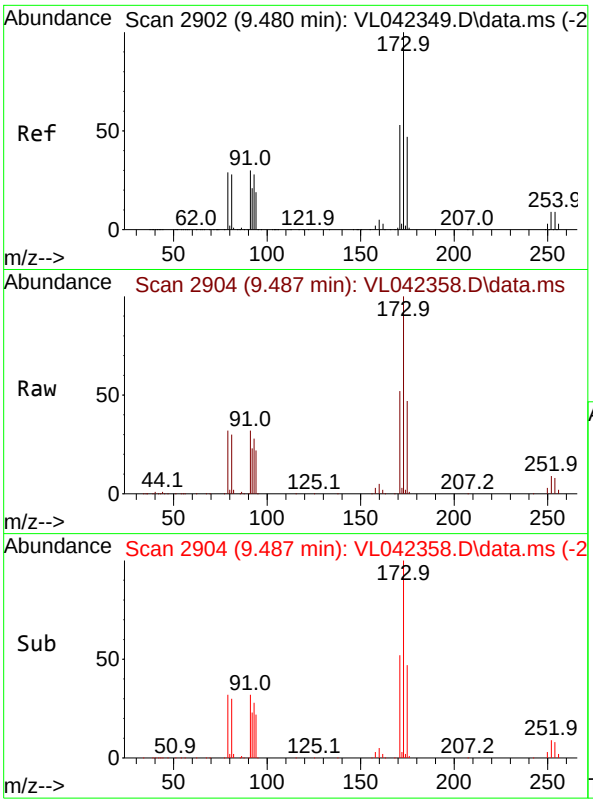


#48
Dibromochloromethane
Concen: 10.261 ppbv
RT: 7.396 min Scan# 2258
Delta R.T. 0.010 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion:129 Resp: 261470

Ion	Ratio	Lower	Upper
129	100		
127	77.9	39.1	117.3



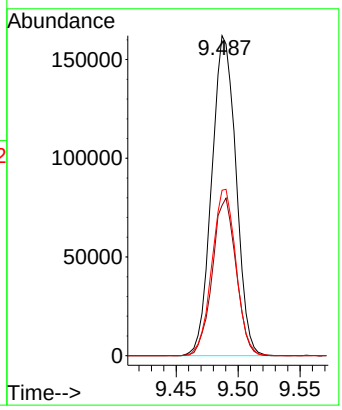


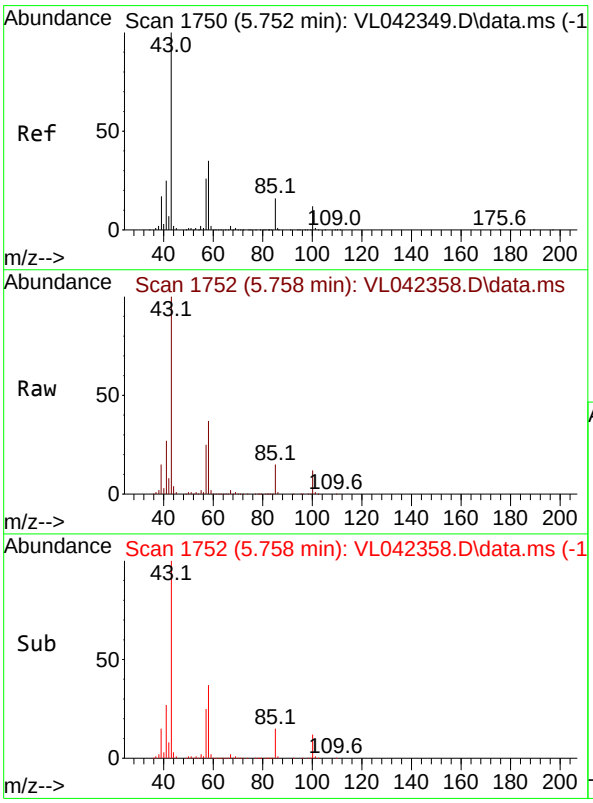
#49
Bromoform
Concen: 9.936 ppbv
RT: 9.487 min Scan# 2
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01

Tgt Ion:173 Resp: 221372

Ion	Ratio	Lower	Upper
173	100		
175	48.0	38.2	57.2
171	51.7	40.9	61.3

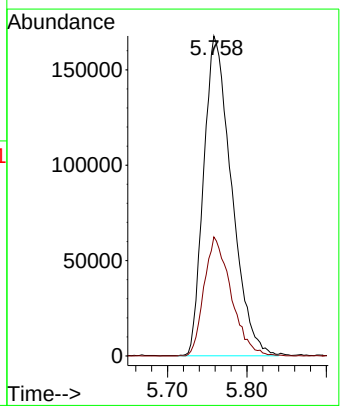


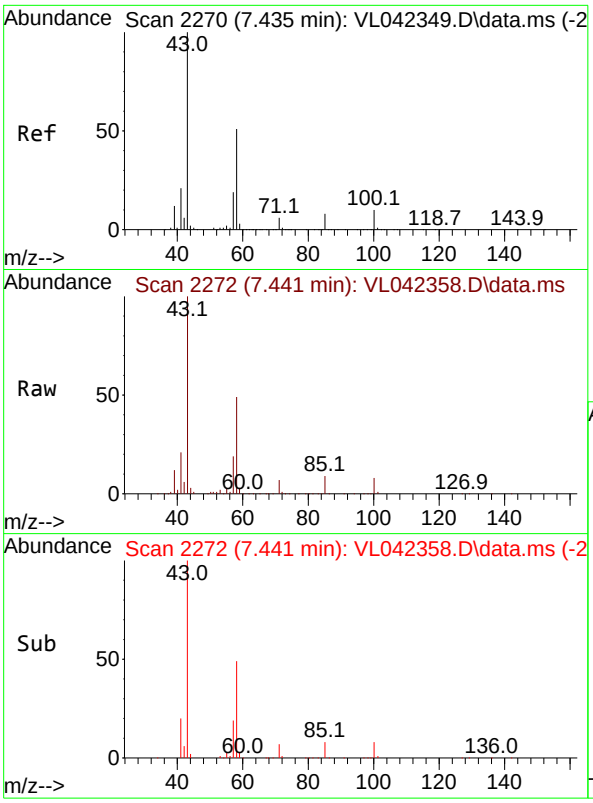


#50
4-Methyl-2-Pentanone
Concen: 8.810 ppbv
RT: 5.758 min Scan# 1752
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 43 Resp: 407804

Ion	Ratio	Lower	Upper
43	100		
58	36.2	28.6	43.0



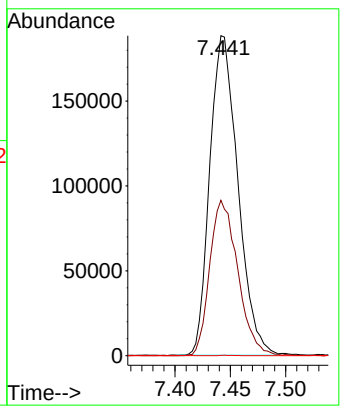


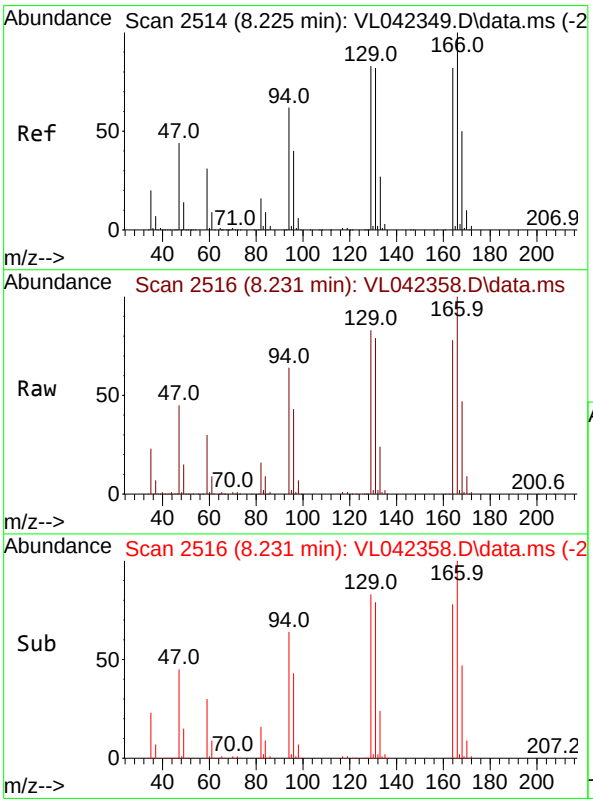
#51
2-Hexanone
Concen: 8.013 ppbv
RT: 7.441 min Scan# 2
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01

Tgt Ion: 43 Resp: 332646

Ion	Ratio	Lower	Upper
43	100		
58	48.6	40.2	60.4
98	0.1	0.1	0.1#

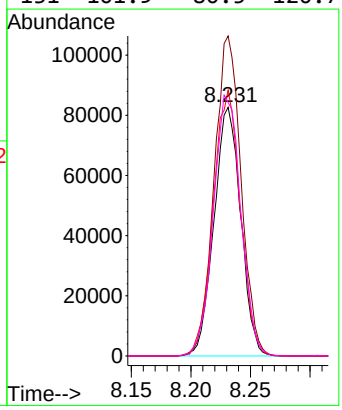


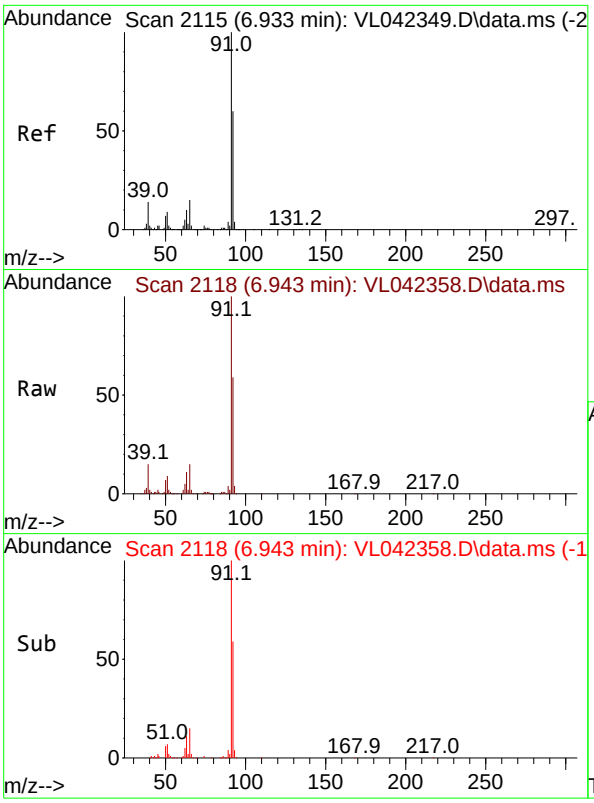


#52
Tetrachloroethene
Concen: 8.763 ppbv
RT: 8.231 min Scan# 2516
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion:164 Resp: 128670

Ion	Ratio	Lower	Upper
164	100		
166	128.7	98.2	147.2
129	106.9	81.8	122.8
131	101.9	80.5	120.7



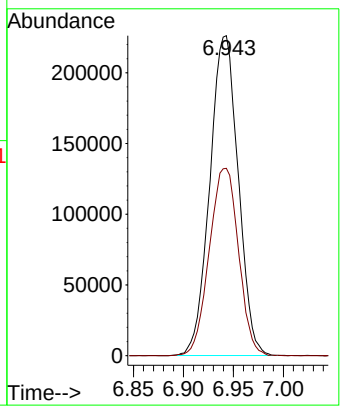


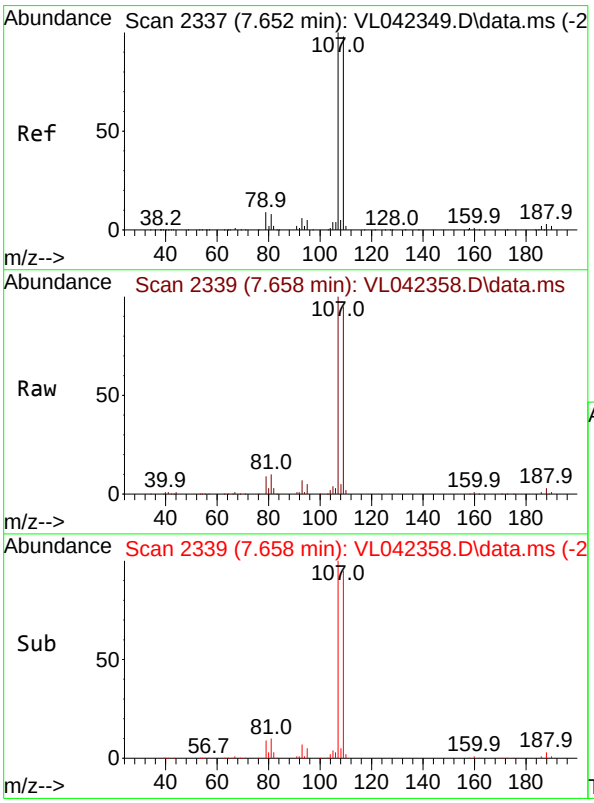
#53
Toluene
Concen: 9.818 ppbv
RT: 6.943 min Scan# 21
Delta R.T. 0.010 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01

Tgt Ion: 91 Resp: 447581

Ion	Ratio	Lower	Upper
91	100		
92	60.3	48.2	72.4

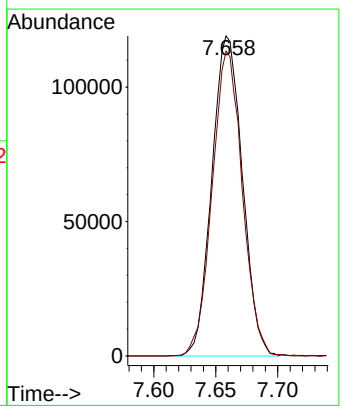


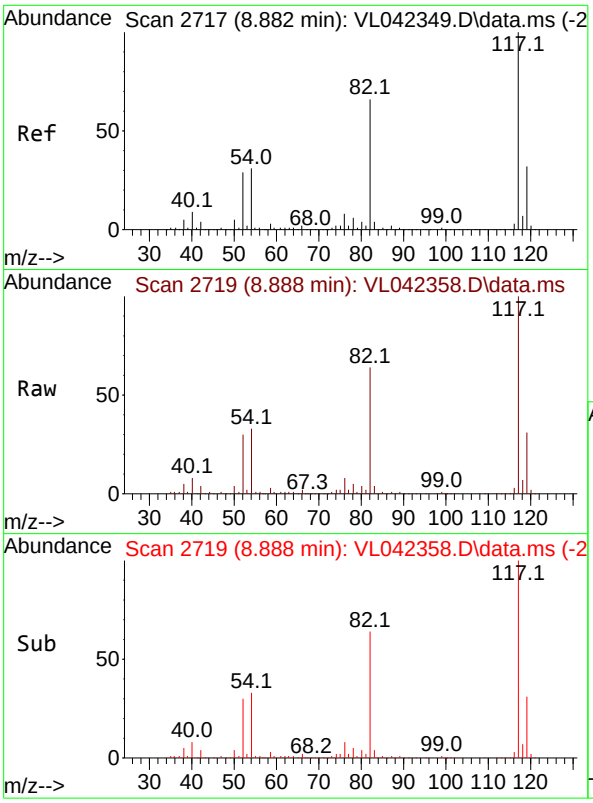


#54
1,2-Dibromoethane
Concen: 9.899 ppbv
RT: 7.658 min Scan# 2339
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion:107 Resp: 204328

Ion	Ratio	Lower	Upper
107	100		
109	95.1	78.2	117.4



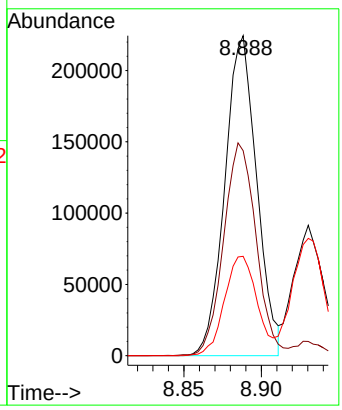


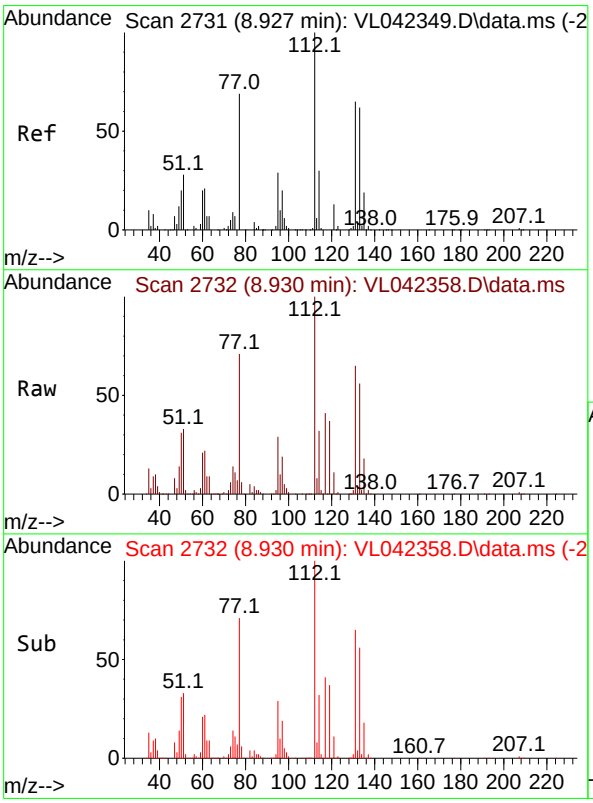
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.888 min Scan# 2
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01

Tgt Ion:117 Resp: 321521

Ion	Ratio	Lower	Upper
117	100		
82	71.8	57.8	86.6
119	32.5	25.2	37.8

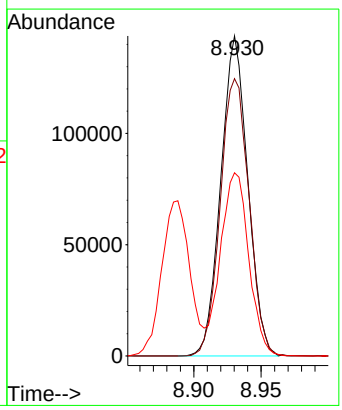


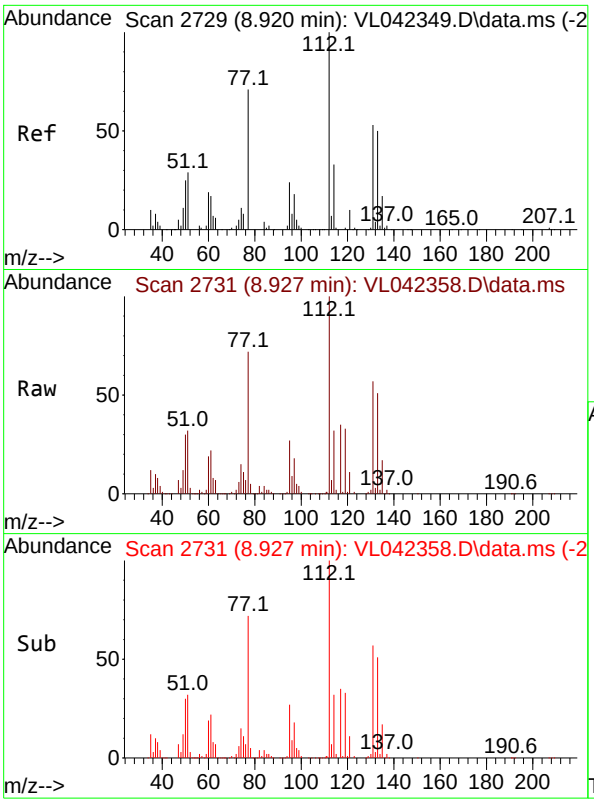


#56
1,1,1,2-Tetrachloroethane
Concen: 10.275 ppbv
RT: 8.930 min Scan# 2732
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion:131 Resp: 199945

Ion	Ratio	Lower	Upper
131	100		
133	92.5	78.3	117.5
119	60.2	48.7	73.1



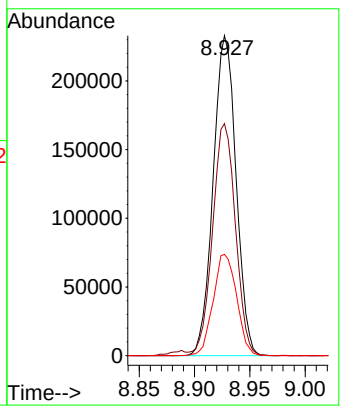


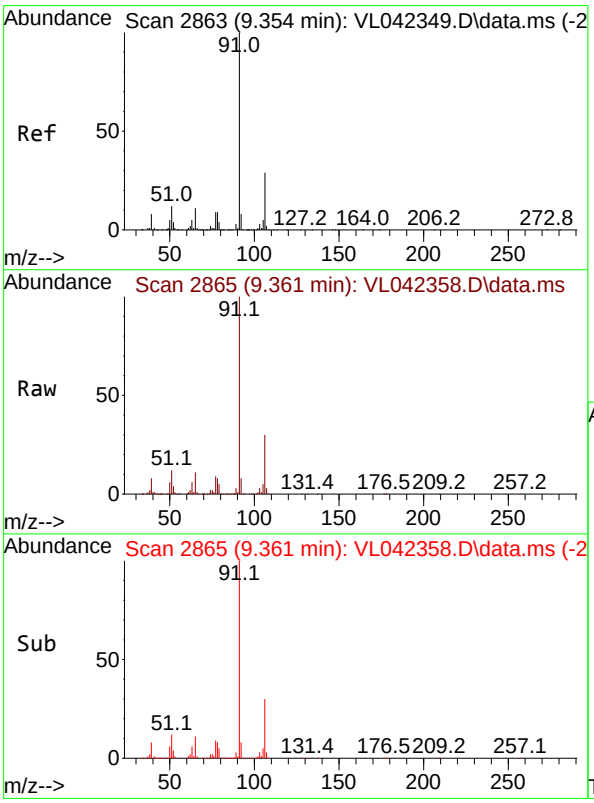
#57
Chlorobenzene
Concen: 10.022 ppbv
RT: 8.927 min Scan# 2
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01

Tgt Ion:112 Resp: 335143

Ion	Ratio	Lower	Upper
112	100		
77	72.4	57.8	86.6
114	31.7	29.3	35.9

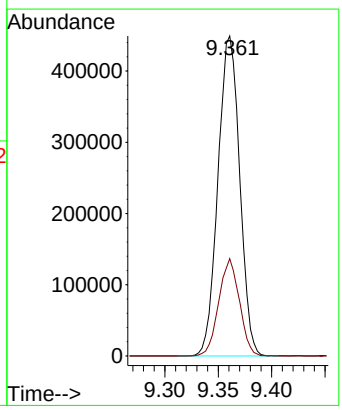


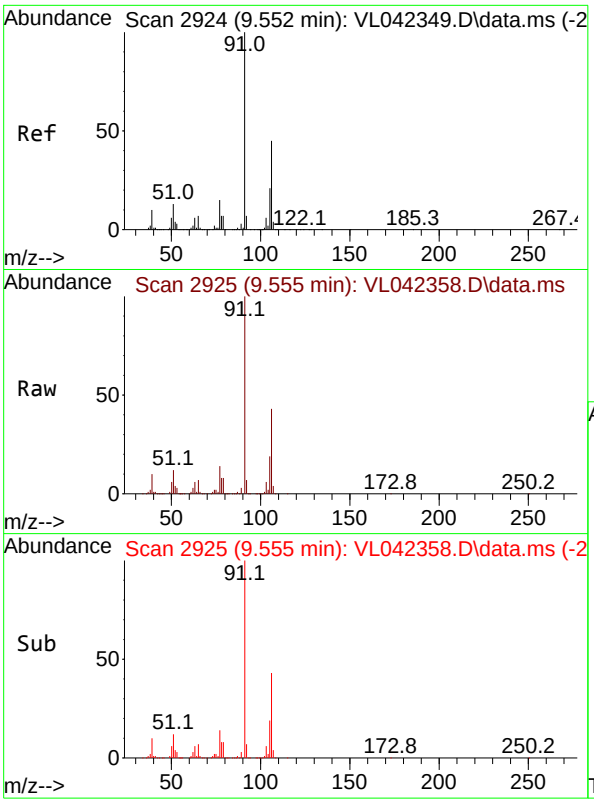


#58
Ethyl Benzene
Concen: 9.975 ppbv
RT: 9.361 min Scan# 2865
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 91 Resp: 635446

Ion	Ratio	Lower	Upper
91	100		
106	30.4	23.0	34.4



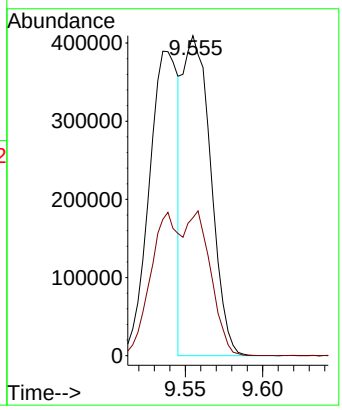


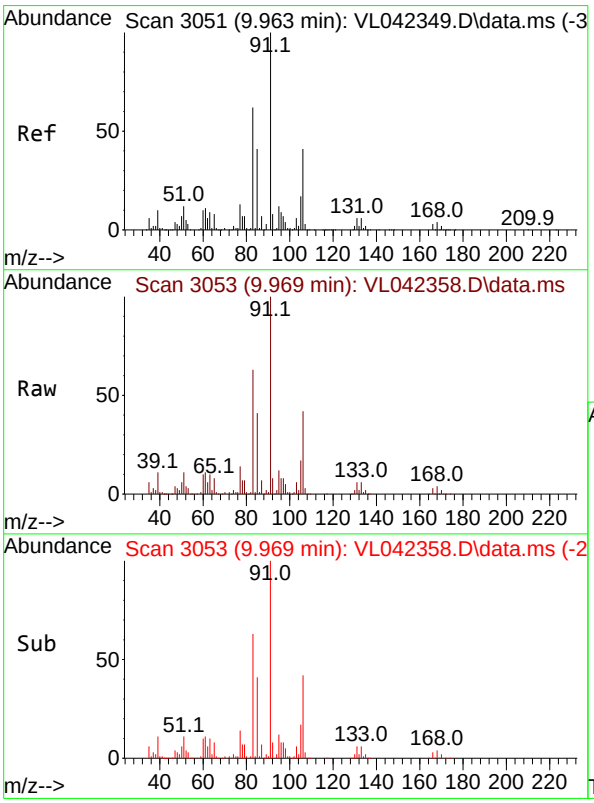
#59
m/p-Xylene
Concen: 10.001 ppbv
RT: 9.555 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01

Tgt Ion: 91 Resp: 513237

Ion	Ratio	Lower	Upper
91	100		
106	87.8	35.4	53.2#

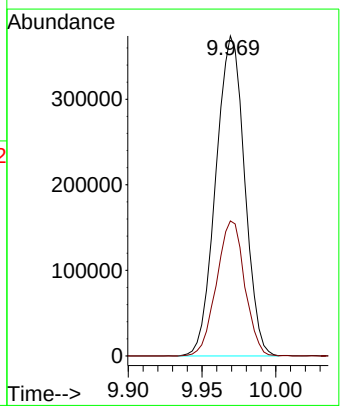


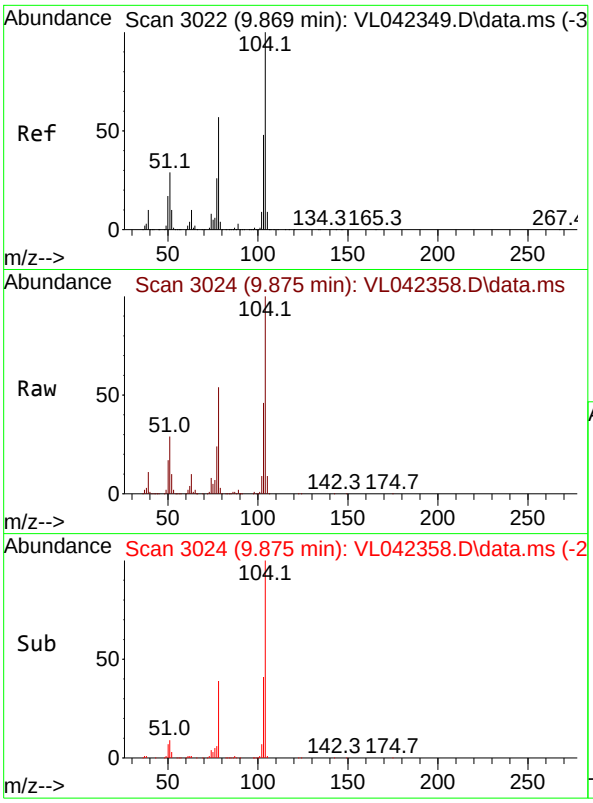


#60
o-Xylene
Concen: 9.802 ppbv
RT: 9.969 min Scan# 3053
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 91 Resp: 506535

Ion	Ratio	Lower	Upper
91	100		
106	41.4	21.1	63.4



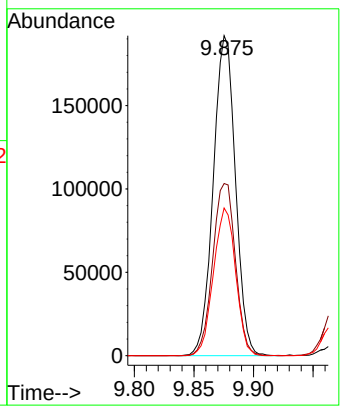


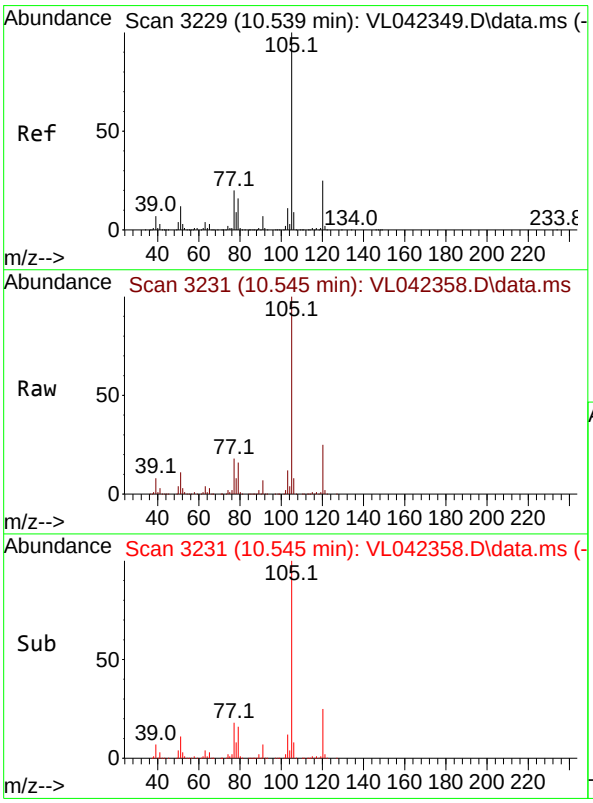
#61
Styrene
Concen: 10.055 ppbv
RT: 9.875 min Scan# 3
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01

Tgt Ion:104 Resp: 248022

Ion	Ratio	Lower	Upper
104	100		
78	55.3	44.6	66.8
103	46.2	37.4	56.0

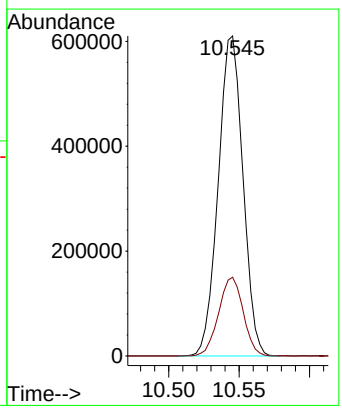


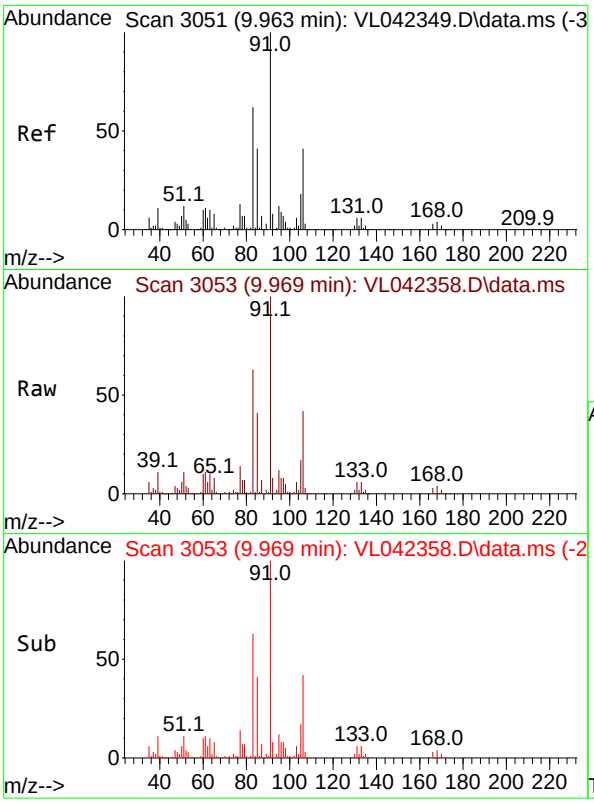


#62
Isopropylbenzene
Concen: 9.827 ppbv
RT: 10.545 min Scan# 3231
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion:105 Resp: 745571

Ion	Ratio	Lower	Upper
105	100		
120	24.5	19.8	29.8



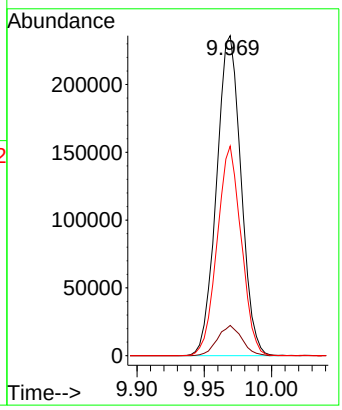


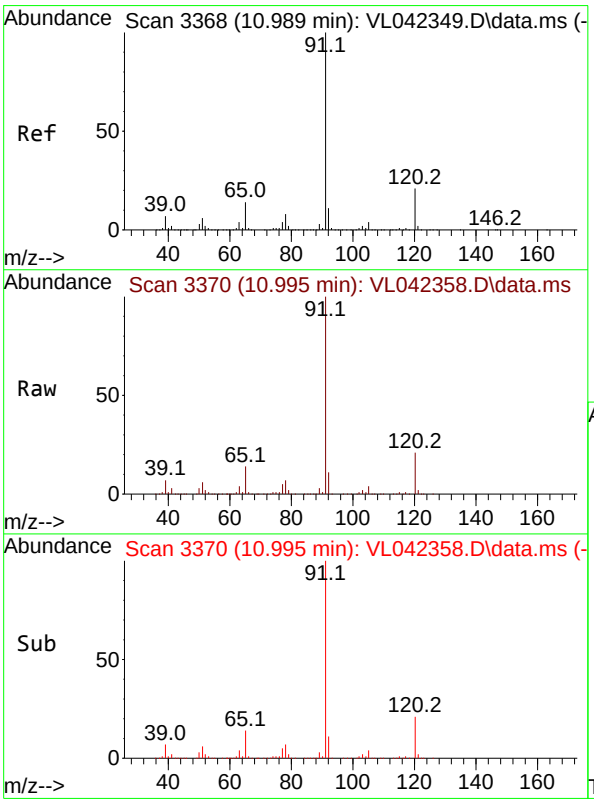
#63
1,1,2,2-Tetrachloroethane
Concen: 8.916 ppbv
RT: 9.969 min Scan# 3
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01

Tgt Ion: 83 Resp: 298581

Ion	Ratio	Lower	Upper
83	100		
131	9.4	4.5	13.7
85	64.5	32.4	97.0

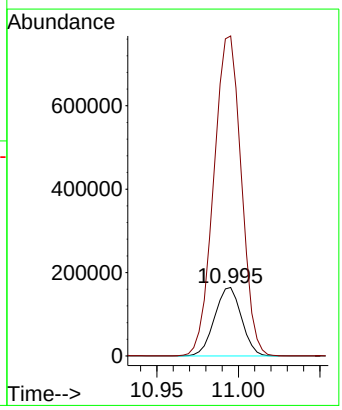


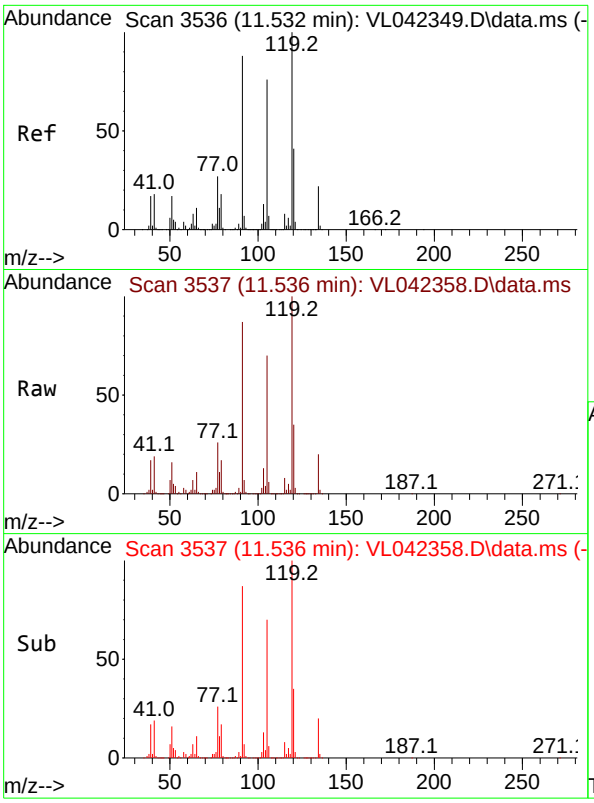


#64
n-propylbenzene
Concen: 9.875 ppbv
RT: 10.995 min Scan# 3370
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion:120 Resp: 188310

Ion	Ratio	Lower	Upper
120	100		
91	478.2	392.4	588.6



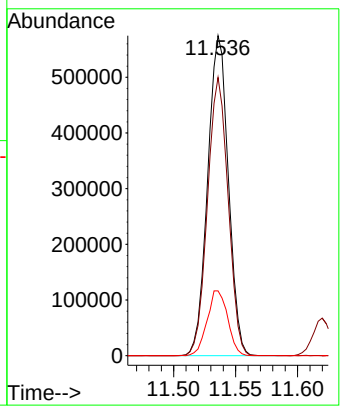


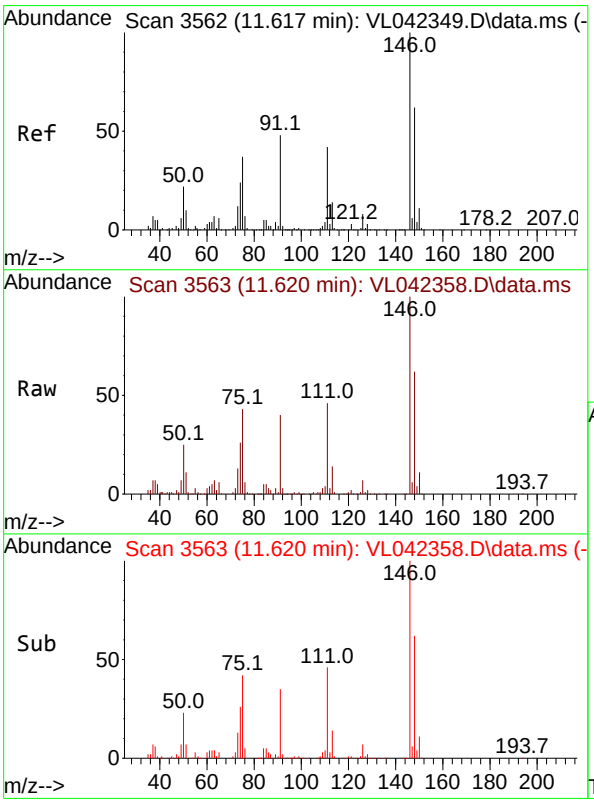
#65
tert-Butylbenzene
Concen: 9.589 ppbv
RT: 11.536 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01

Tgt Ion:119 Resp: 668687

Ion	Ratio	Lower	Upper
119	100		
91	86.7	74.6	111.8
134	20.2	18.8	28.2

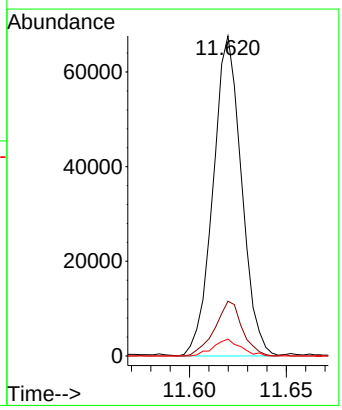


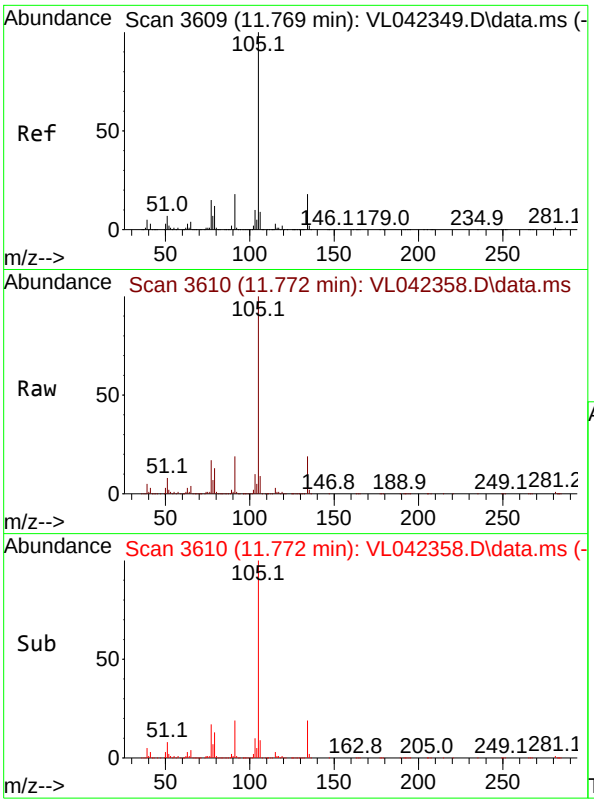


#66
Benzyl Chloride
Concen: 9.012 ppbv
RT: 11.620 min Scan# 3563
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 91 Resp: 69058

Ion	Ratio	Lower	Upper
91	100		
126	16.5	11.8	17.6
128	5.0	4.5	6.7



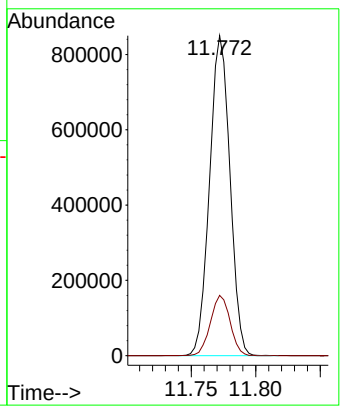


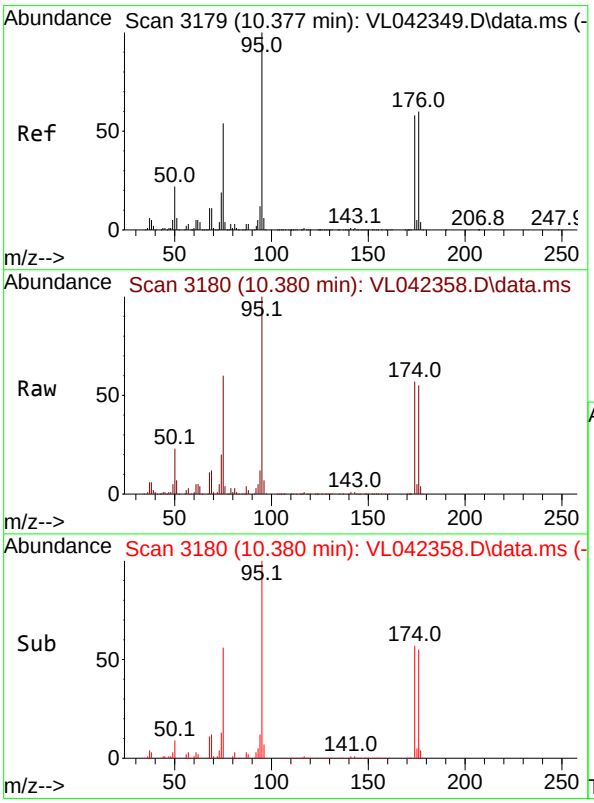
#67
sec-Butylbenzene
Concen: 9.592 ppbv
RT: 11.772 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01

Tgt Ion:105 Resp: 930426

Ion	Ratio	Lower	Upper
105	100		
134	18.3	14.6	21.8

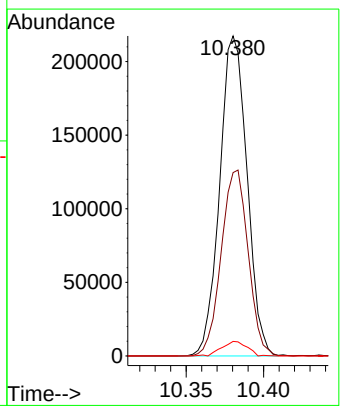


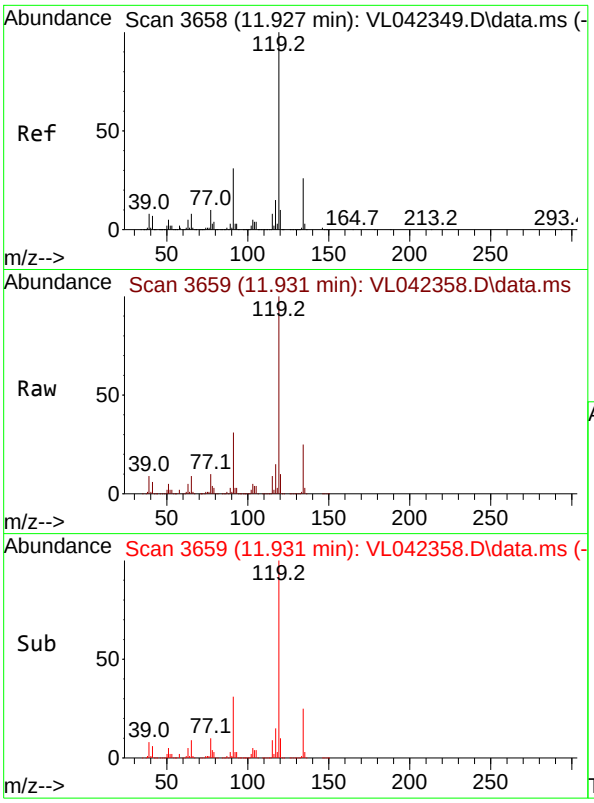


#68
1-Bromo-4-Fluorobenzene
Concen: 10.096 ppbv
RT: 10.380 min Scan# 3180
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 95 Resp: 266757

Ion	Ratio	Lower	Upper
95	100		
174	57.3	48.5	72.7
175	4.3	3.7	5.5



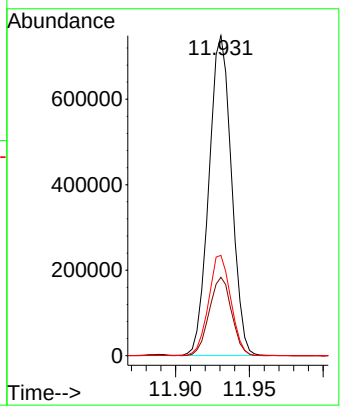


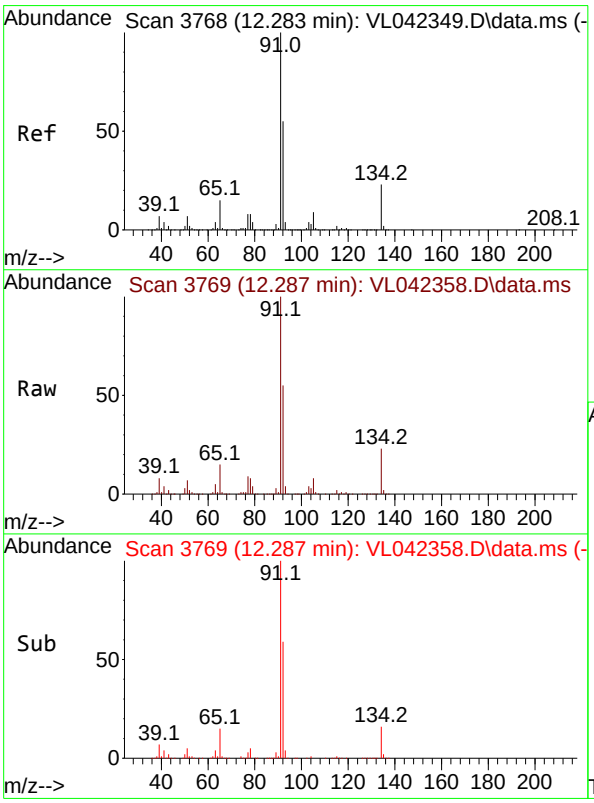
#69
p-Isopropyltoluene
Concen: 9.441 ppbv
RT: 11.931 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01

Tgt Ion:119 Resp: 795532

Ion	Ratio	Lower	Upper
119	100		
134	24.5	20.0	30.0
91	31.2	24.4	36.6

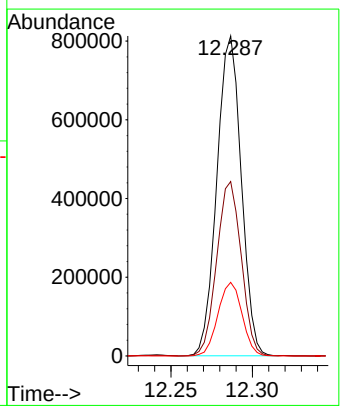


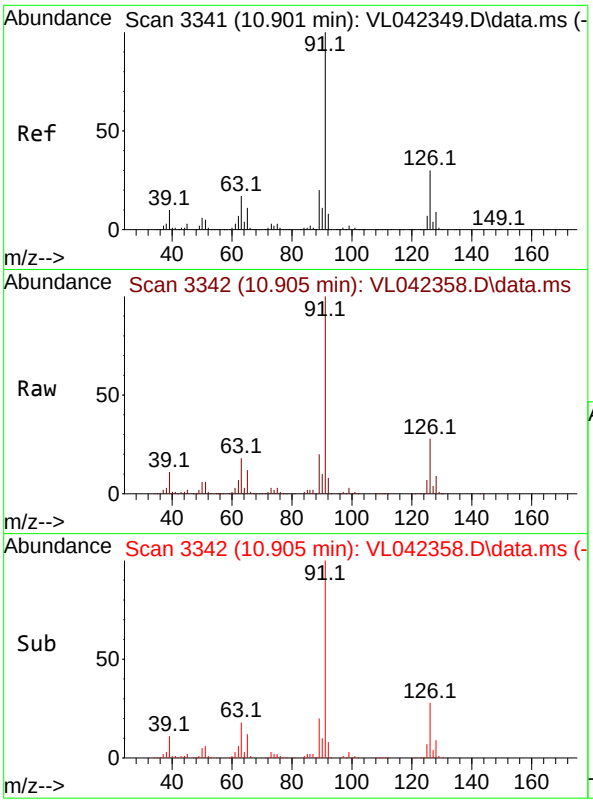


#70
n-Butylbenzene
Concen: 9.644 ppbv
RT: 12.287 min Scan# 3769
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 91 Resp: 846427

Ion	Ratio	Lower	Upper
91	100		
92	54.9	44.2	66.4
134	22.7	18.2	27.4



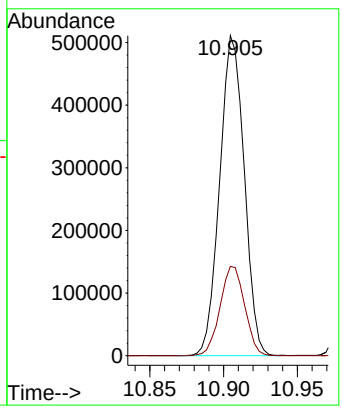


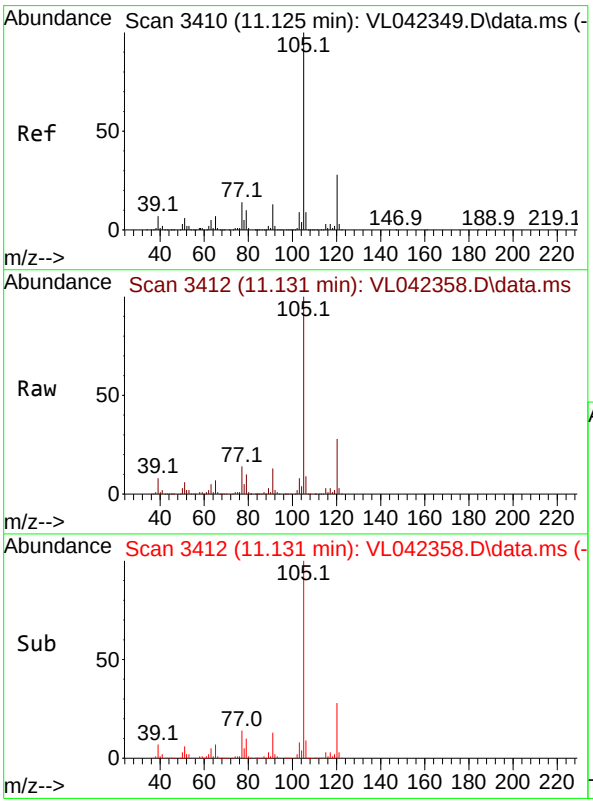
#71
2-Chlorotoluene
Concen: 9.934 ppbv
RT: 10.905 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01

Tgt Ion: 91 Resp: 591154

Ion	Ratio	Lower	Upper
91	100		
126	27.9	11.4	45.4

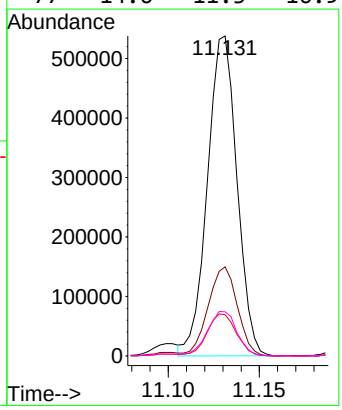


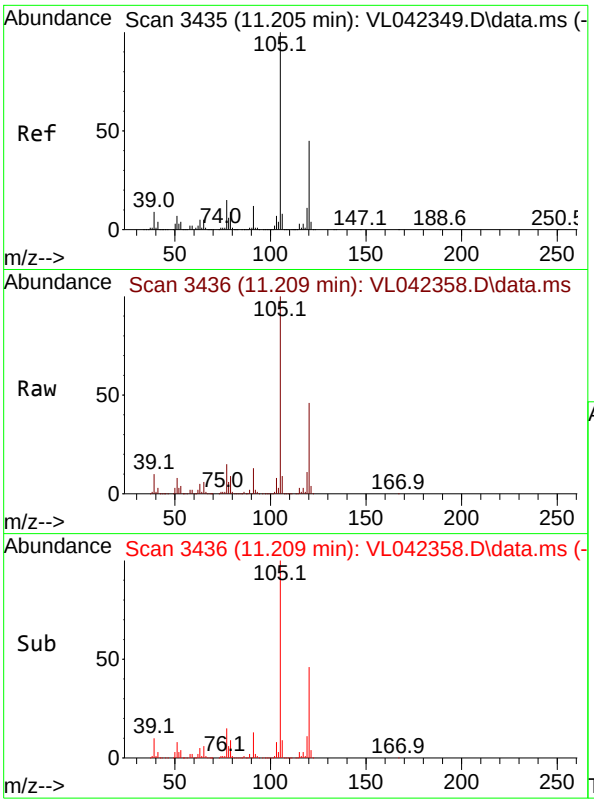


#72
4-Ethyltoluene
Concen: 9.606 ppbv
RT: 11.131 min Scan# 3412
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion:105 Resp: 606879

Ion	Ratio	Lower	Upper
105	100		
120	28.6	23.2	34.8
91	13.5	10.4	15.6
77	14.6	11.3	16.9



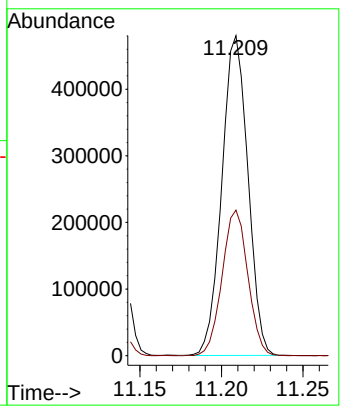


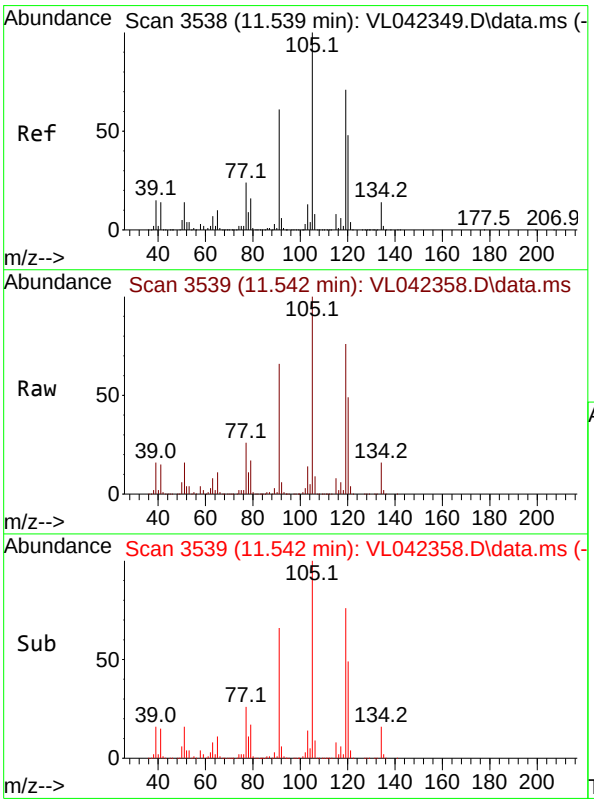
#73
1,3,5-Trimethylbenzene
Concen: 9.557 ppbv
RT: 11.209 min Scan# 34
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01

Tgt Ion:105 Resp: 533060

Ion	Ratio	Lower	Upper
105	100		
120	45.6	35.6	53.4

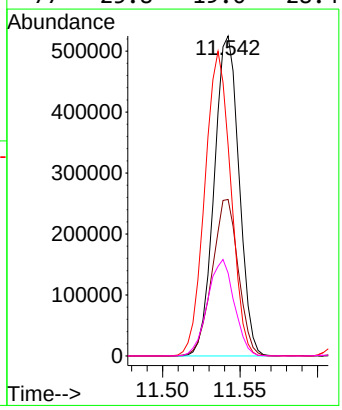


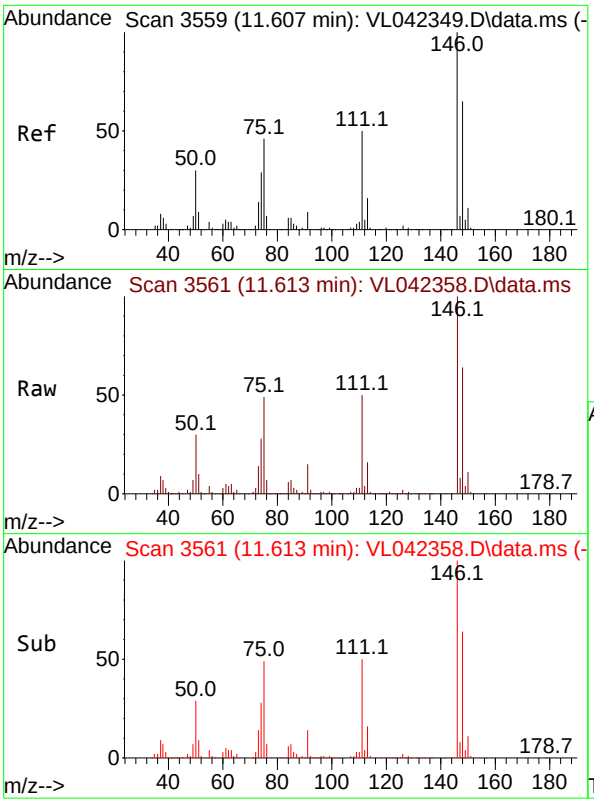


#74
1,2,4-Trimethylbenzene
Concen: 8.976 ppbv
RT: 11.542 min Scan# 3539
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion:105 Resp: 584747

Ion	Ratio	Lower	Upper
105	100		
120	48.9	38.1	57.1
91	65.8	48.8	73.2
77	25.8	19.0	28.4



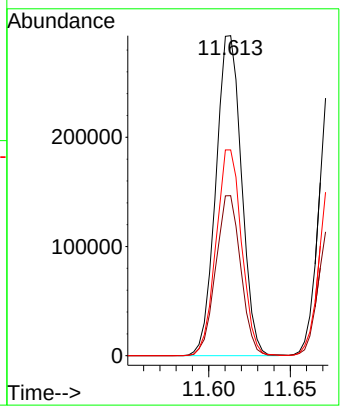


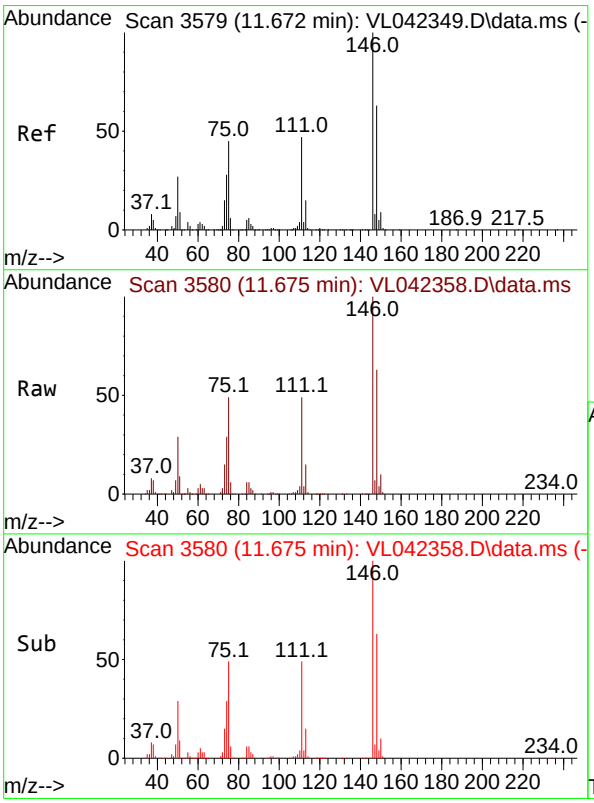
#75
1,3-Dichlorobenzene
Concen: 9.474 ppbv
RT: 11.613 min Scan# 3
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01

Tgt Ion:146 Resp: 320811

Ion	Ratio	Lower	Upper
146	100		
111	48.8	24.3	72.8
148	64.0	31.6	94.8

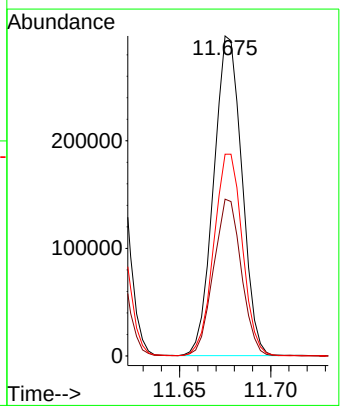


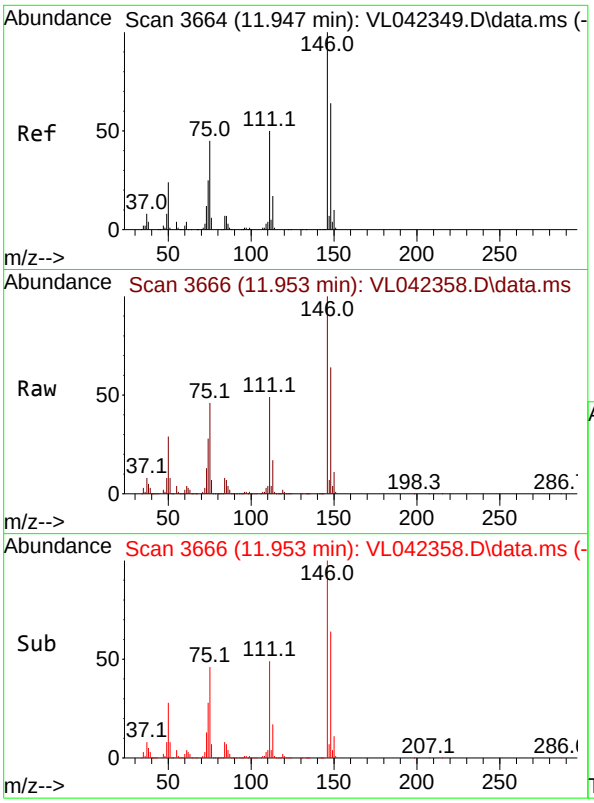


#76
1,4-Dichlorobenzene
Concen: 9.384 ppbv
RT: 11.675 min Scan# 3580
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion:146 Resp: 319376

Ion	Ratio	Lower	Upper
146	100		
111	48.6	24.2	72.6
148	64.1	32.1	96.5



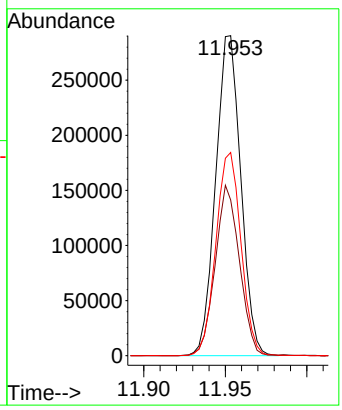


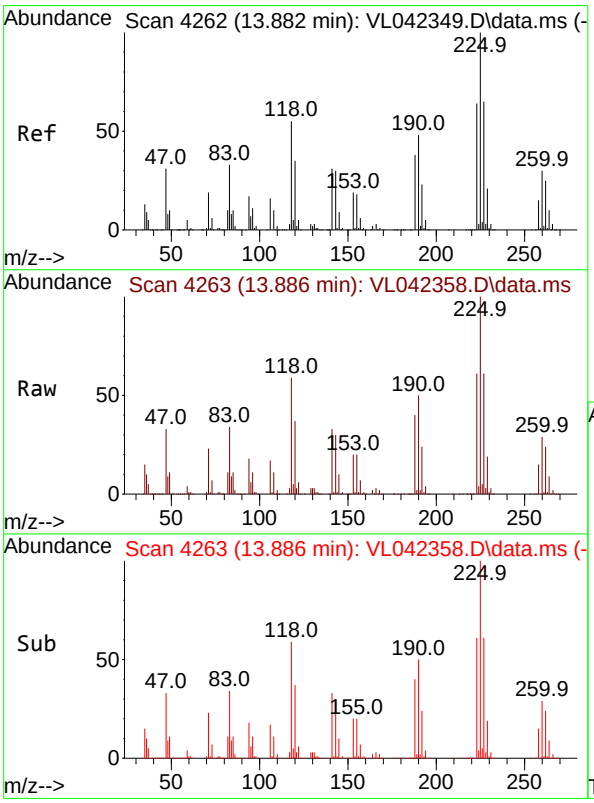
#77
1,2-Dichlorobenzene
Concen: 9.459 ppbv
RT: 11.953 min Scan# 3
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01

Tgt Ion:146 Resp: 311460

Ion	Ratio	Lower	Upper
146	100		
111	51.4	25.3	75.9
148	63.4	31.5	94.5

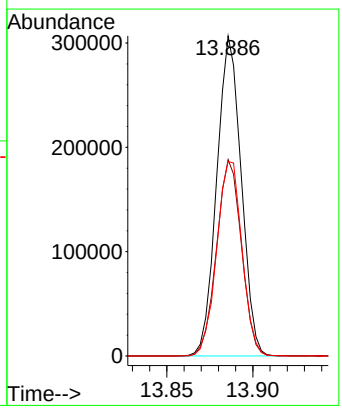


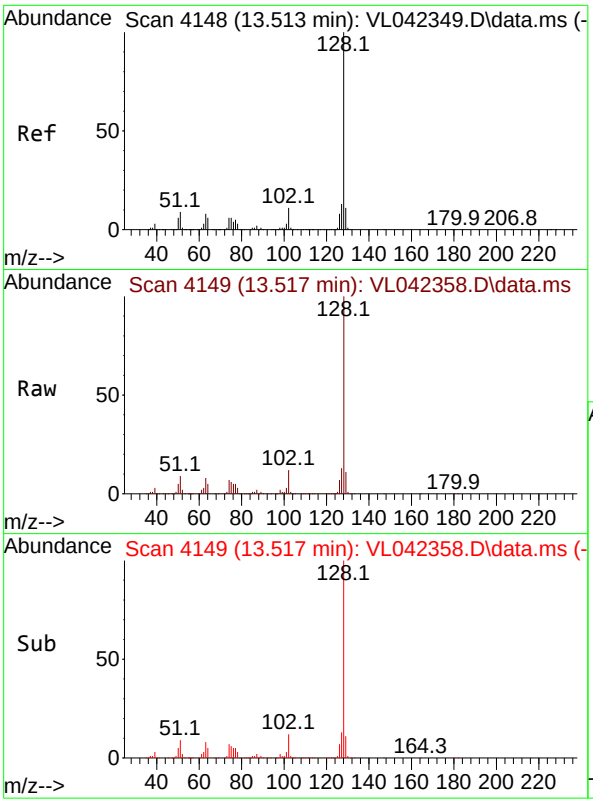


#78
Hexachloro-1,3-Butadiene
Concen: 9.124 ppbv
RT: 13.886 min Scan# 4263
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion:225 Resp: 303379

Ion	Ratio	Lower	Upper
225	100		
223	62.3	50.3	75.5
227	62.9	51.5	77.3



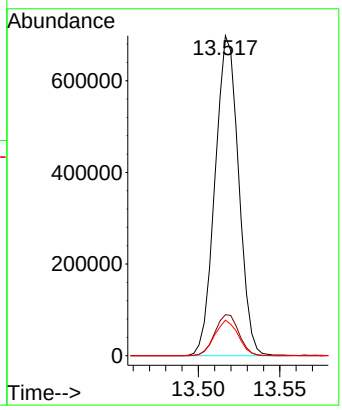


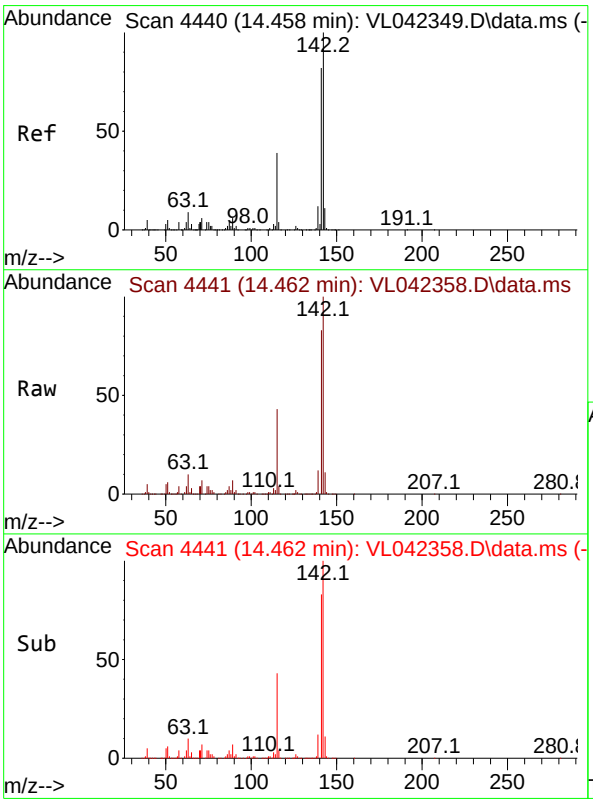
#79
Naphthalene
Concen: 8.999 ppbv
RT: 13.517 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01

Tgt Ion:128 Resp: 701010

Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.6	15.8
129	11.1	8.6	12.8

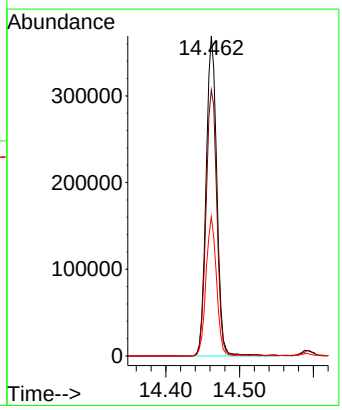


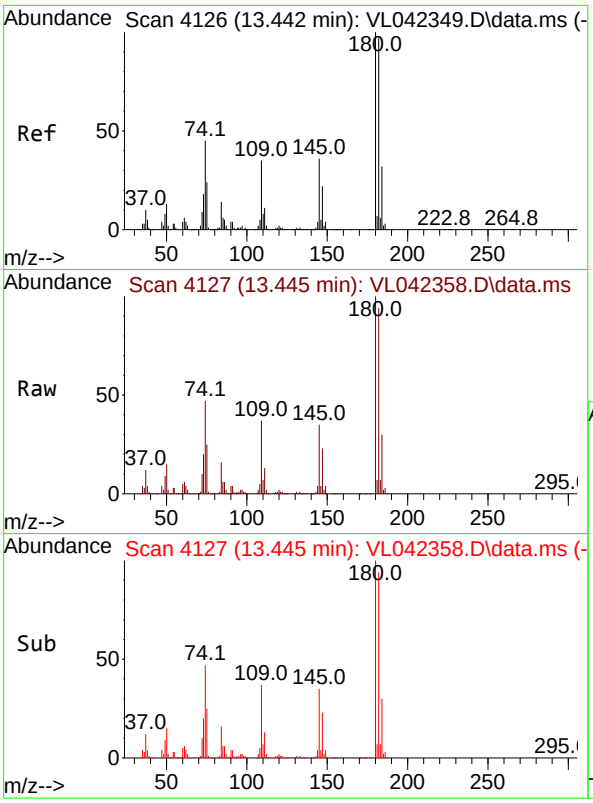


#80
Naphthalene,2-methyl-
Concen: 8.331 ppbv
RT: 14.462 min Scan# 4441
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion:142 Resp: 369891

Ion	Ratio	Lower	Upper
142	100		
141	85.0	66.8	100.2
115	42.8	33.4	50.2



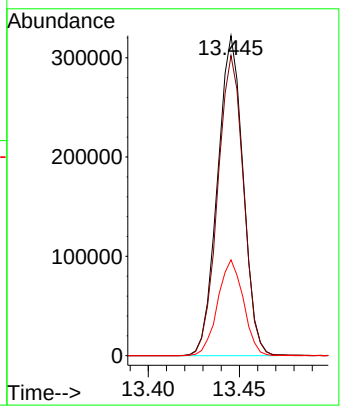


#81
1,2,4-Trichlorobenzene
Concen: 9.417 ppbv
RT: 13.445 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01

Tgt Ion:180 Resp: 315002

Ion	Ratio	Lower	Upper
180	100		
182	94.8	76.8	115.2
184	30.1	24.6	36.8



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042361.D
Acq On : 17 Apr 2025 17:17
Operator : SY/MD
Sample : Q1668-01
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025

Quant Time: Apr 18 02:38:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.787	49	118680	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.959	114	339191	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.885	117	303501	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.377	95	254412	10.201	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 102.000%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.499	85	9719	0.463	ppbv		96
3) Chlorodifluoromethane	1.476	51	10711	0.536	ppbv	#	88
4) Chloromethane	1.535	50	4388	0.529	ppbv	#	83
6) Bromomethane	1.664	94	153	0.039	ppbv	#	45
7) Chloroethane	1.706	64	113	0.035	ppbv	#	79
9) Propene	1.486	41	5612	0.617	ppbv		87
10) Heptane	4.982	43	49177	1.925	ppbv		98
11) Trichlorofluoromethane	1.878	101	4685	0.235	ppbv		98
12) 1,1,2-Trichlorotrifluo...	2.140	101	1388	0.085	ppbv		99
13) Ethanol	1.722	45	357077	247.060	ppbv		76
15) Acetone	1.836	43	102271	5.264	ppbv		92
16) 1,3-Butadiene	1.603	39	5117	0.551	ppbv	#	9
17) tert-Butyl alcohol	2.046	59	3120	0.130	ppbv	#	34
19) Isopropyl Alcohol	1.888	45	23025	2.133	ppbv	#	3
20) Methylene Chloride	2.062	84	21165	2.782	ppbv	#	80
21) Allyl Chloride	2.085	41	432	0.032	ppbv	#	1
23) Vinyl Acetate	2.451	43	6946	0.883	ppbv	#	77
25) Ethyl Acetate	2.829	43	41711	0.871	ppbv	#	80
26) Hexane	2.826	57	57707	2.977	ppbv	#	32
27) Carbon Disulfide	2.150	76	12989	0.626	ppbv	#	1
29) Chloroform	2.849	83	1642	0.060	ppbv		90
30) Cyclohexane	3.862	84	52016	3.319	ppbv		99
34) 2-Butanone	2.564	43	18598	0.693	ppbv		98
35) Carbon Tetrachloride	3.762	117	1037	0.034	ppbv	#	76
36) Benzene	3.658	78	20521	0.561	ppbv		98
39) 1,2-Dichloropropane	3.962	63	92371	6.775	ppbv	#	23
41) Tetrahydrofuran	3.072	42	1220	0.078	ppbv	#	80
44) 2,2,4-Trimethylpentane	4.642	57	8612	0.136	ppbv	#	42
50) 4-Methyl-2-Pentanone	5.755	43	873418	19.593	ppbv		99
53) Toluene	6.933	91	68700	1.565	ppbv		100
58) Ethyl Benzene	9.361	91	56772	0.944	ppbv		94
59) m/p-Xylene	9.536	91	454491	9.382	ppbv		100
60) o-Xylene	9.966	91	95896	1.966	ppbv		99
61) Styrene	9.872	104	37931	1.629	ppbv		98
62) Isopropylbenzene	10.542	105	10580	0.148	ppbv		95
64) n-propylbenzene	10.992	120	9483	0.527	ppbv		96
65) tert-Butylbenzene	11.539	119	25601	0.389	ppbv	#	68
66) Benzyl Chloride	11.536	91	30407	4.204	ppbv	#	70
67) sec-Butylbenzene	11.769	105	7719	0.084	ppbv	#	61
69) p-Isopropyltoluene	11.928	119	12502	0.157	ppbv		99
70) n-Butylbenzene	12.287	91	28567	0.345	ppbv	#	43
71) 2-Chlorotoluene	10.856	91	8756	0.156	ppbv		87
72) 4-Ethyltoluene	11.128	105	61306	1.028	ppbv	#	56

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042361.D
Acq On : 17 Apr 2025 17:17
Operator : SY/MD
Sample : Q1668-01
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025

Quant Time: Apr 18 02:38:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration

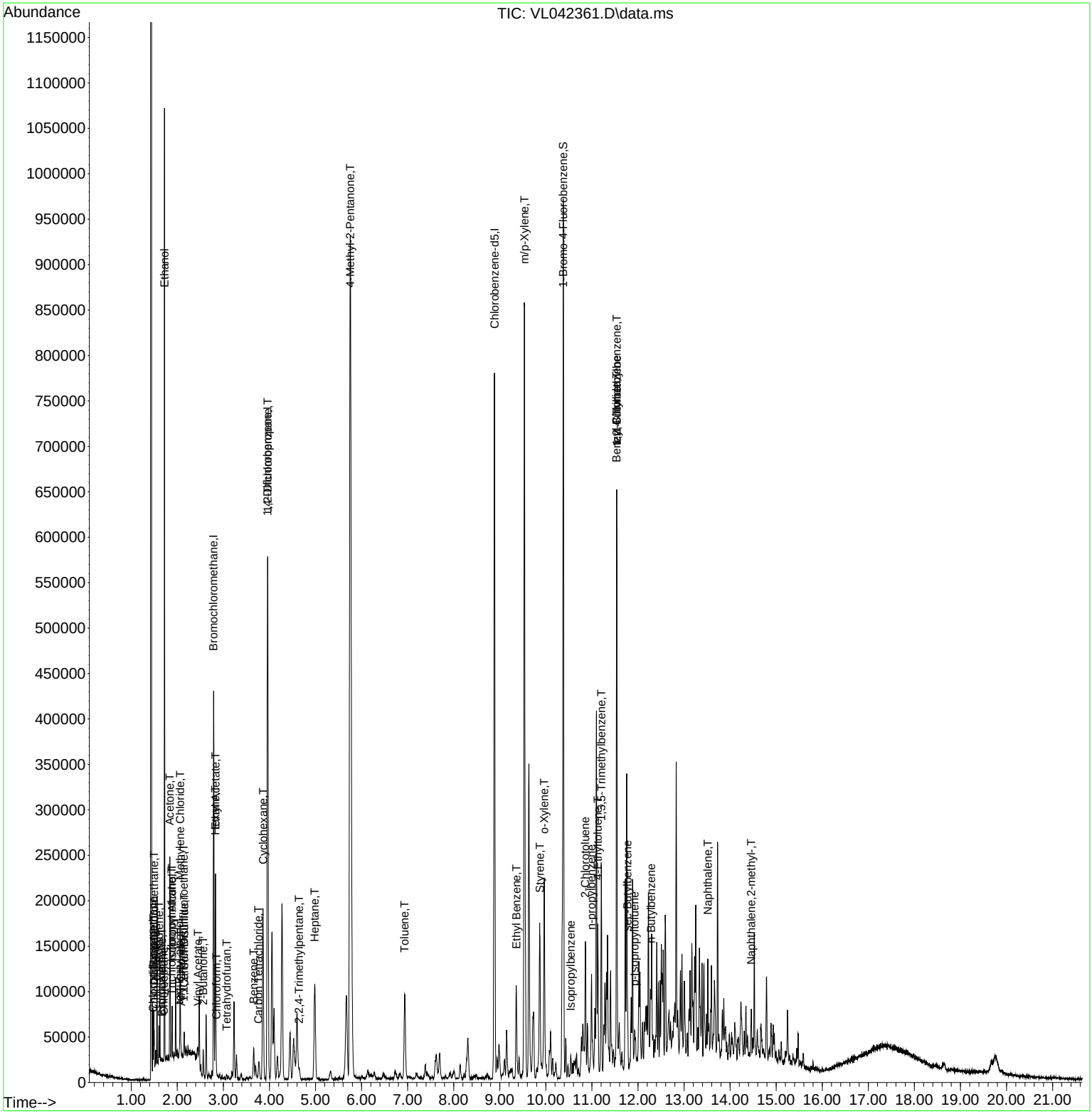
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
73) 1,3,5-Trimethylbenzene	11.206	105	67763	1.287	ppbv		99
74) 1,2,4-Trimethylbenzene	11.539	105	234839	3.819	ppbv	#	65
79) Naphthalene	13.517	128	44224	0.601	ppbv		99
80) Naphthalene,2-methyl-	14.459	142	10408	0.248	ppbv	#	74

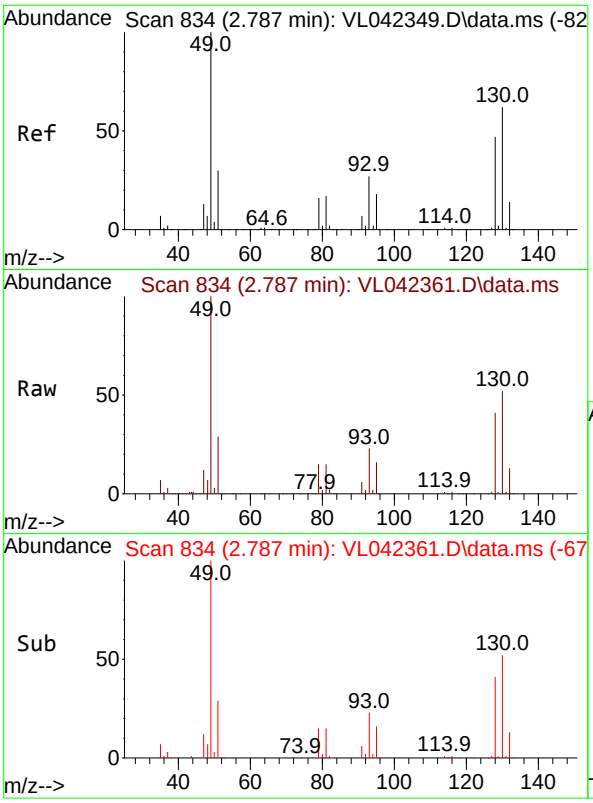
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042361.D
Acq On : 17 Apr 2025 17:17
Operator : SY/MD
Sample : Q1668-01
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025

Quant Time: Apr 18 02:38:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration



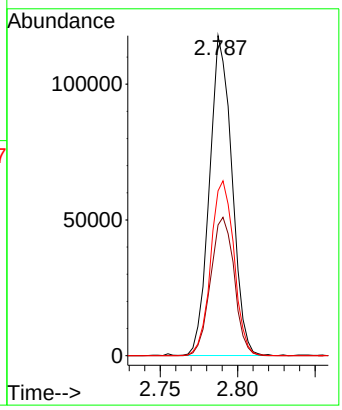


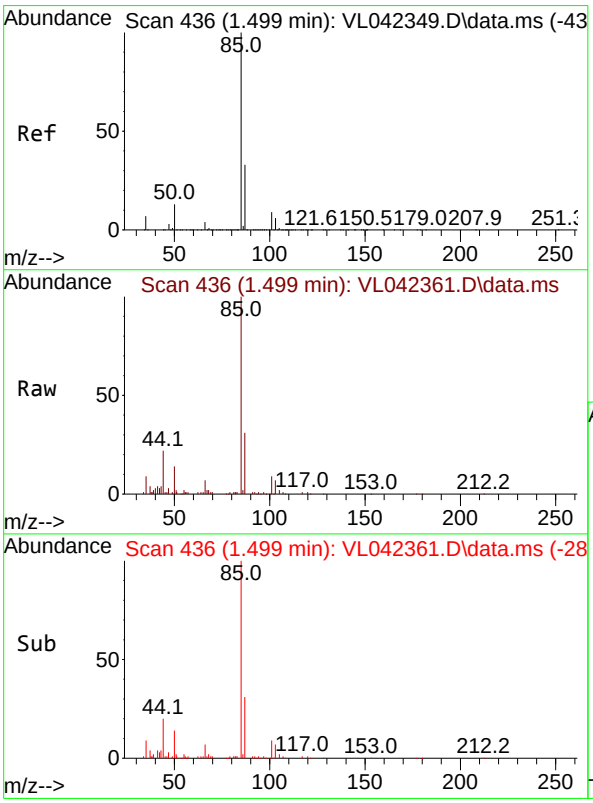
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 8
Delta R.T. 0.000 min
Lab File: VL042361.D
Acq: 17 Apr 2025 17:17

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025

Tgt Ion: 49 Resp: 118680

Ion	Ratio	Lower	Upper
49	100		
128	45.4	22.8	68.4
130	56.4	29.3	88.0

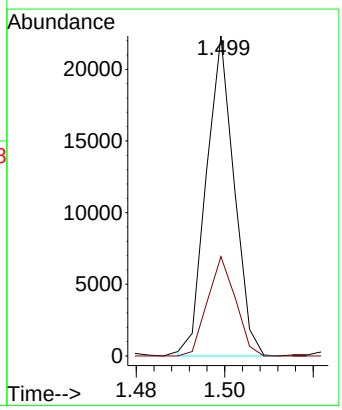


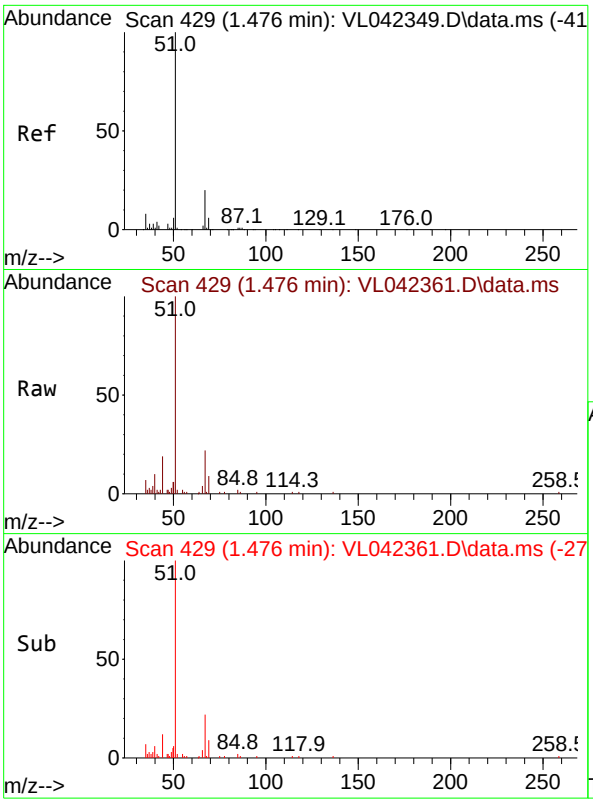


#2
Dichlorodifluoromethane
Concen: 0.463 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.000 min
Lab File: VL042361.D
Acq: 17 Apr 2025 17:17

Tgt Ion: 85 Resp: 9719

Ion	Ratio	Lower	Upper
85	100		
87	31.1	26.6	39.8



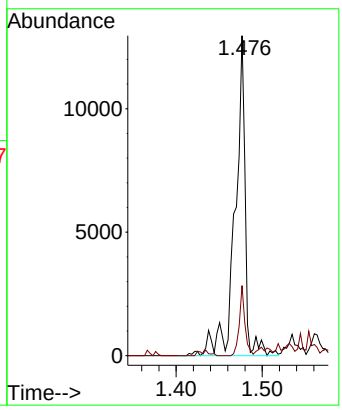


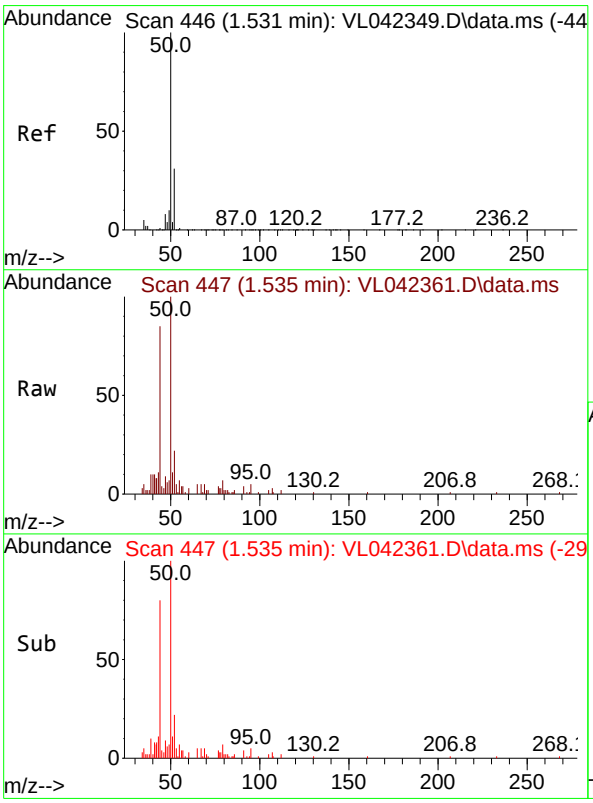
#3
Chlorodifluoromethane
Concen: 0.536 ppbv
RT: 1.476 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042361.D
Acq: 17 Apr 2025 17:17

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025

Tgt Ion: 51 Resp: 10711

Ion	Ratio	Lower	Upper
51	100		
67	14.8	16.2	24.4#

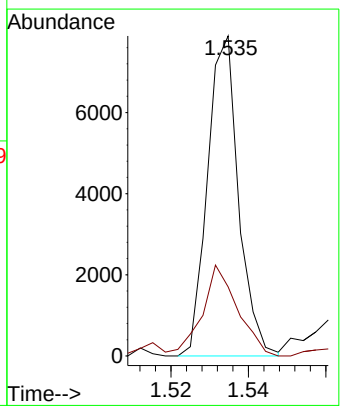


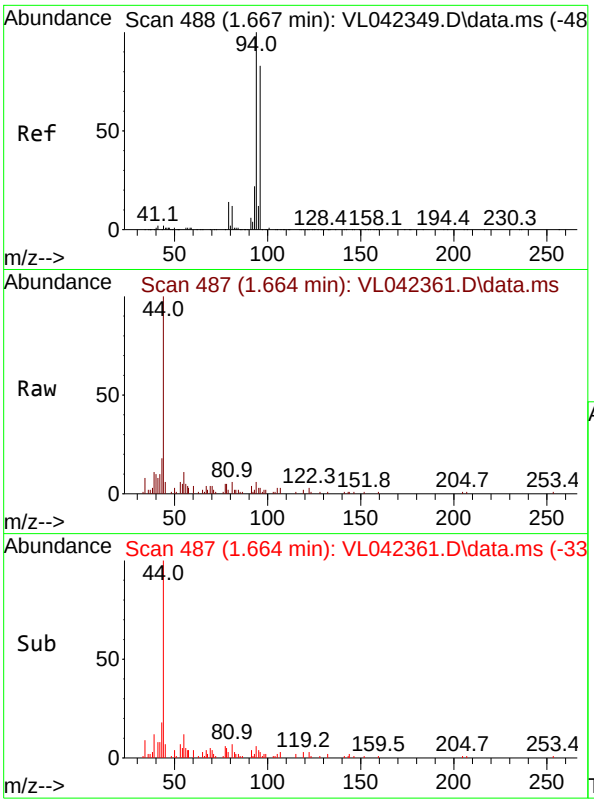


#4
Chloromethane
Concen: 0.529 ppbv
RT: 1.535 min Scan# 447
Delta R.T. 0.004 min
Lab File: VL042361.D
Acq: 17 Apr 2025 17:17

Tgt Ion: 50 Resp: 4388

Ion	Ratio	Lower	Upper
50	100		
52	21.8	24.7	37.1#



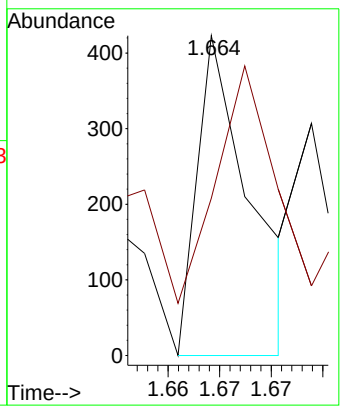


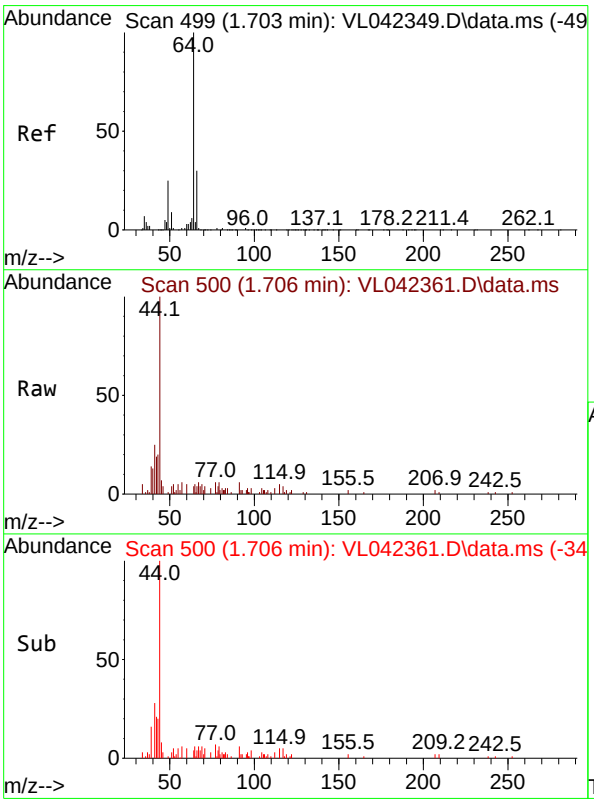
#6
Bromomethane
Concen: 0.039 ppbv
RT: 1.664 min Scan# 4
Delta R.T. -0.003 min
Lab File: VL042361.D
Acq: 17 Apr 2025 17:17

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025

Tgt Ion: 94 Resp: 153

Ion	Ratio	Lower	Upper
94	100		
96	32.9	66.2	99.2#

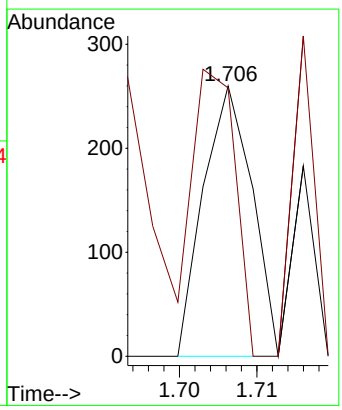


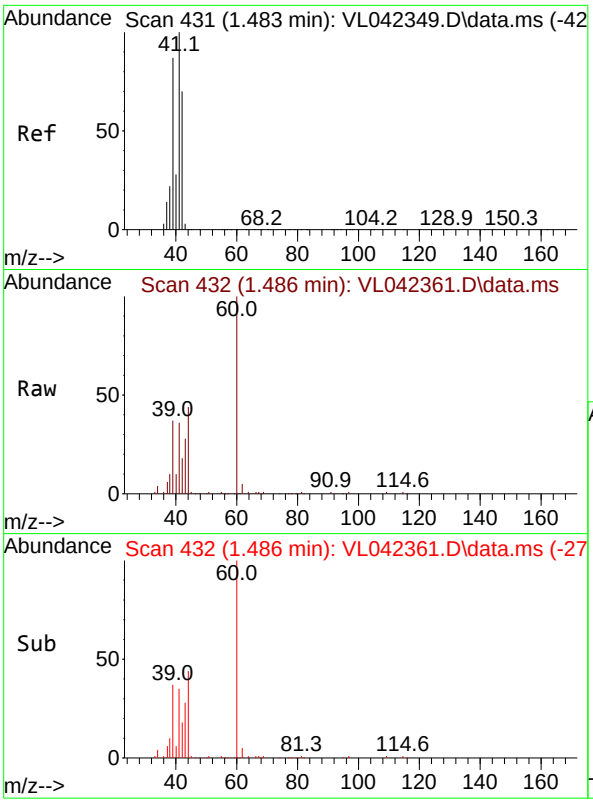


#7
Chloroethane
Concen: 0.035 ppbv
RT: 1.706 min Scan# 500
Delta R.T. 0.004 min
Lab File: VL042361.D
Acq: 17 Apr 2025 17:17

Tgt Ion: 64 Resp: 113

Ion	Ratio	Lower	Upper
64	100		
66	42.4	24.6	37.0#



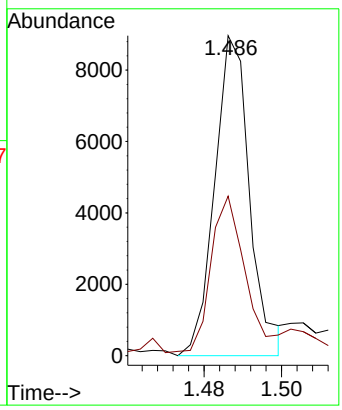


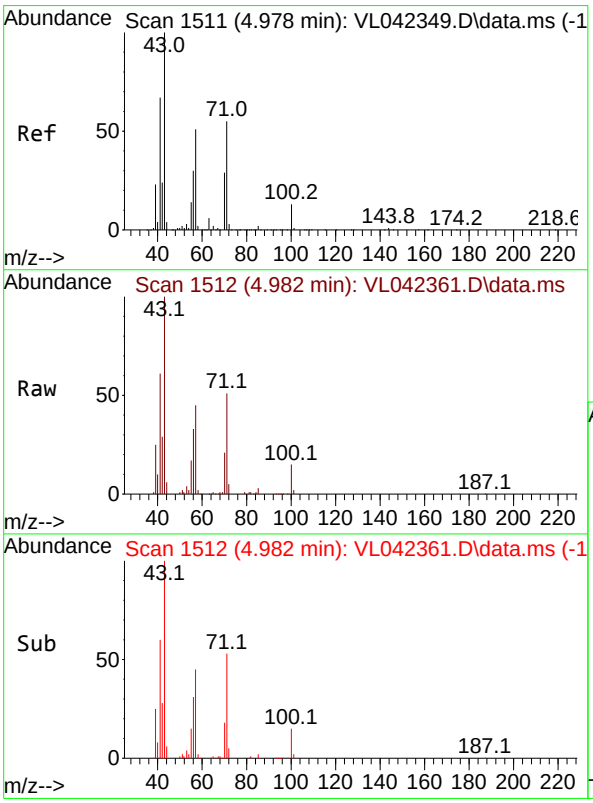
#9
Propene
Concen: 0.617 ppbv
RT: 1.486 min Scan# 4
Delta R.T. 0.004 min
Lab File: VL042361.D
Acq: 17 Apr 2025 17:17

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025

Tgt Ion: 41 Resp: 5612

Ion	Ratio	Lower	Upper
41	100		
42	60.0	56.2	84.4

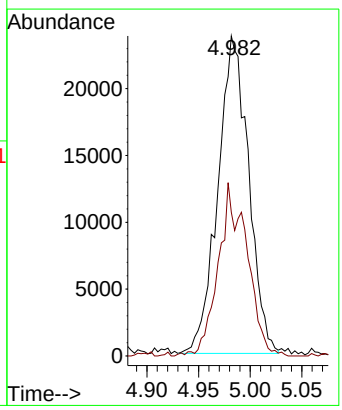


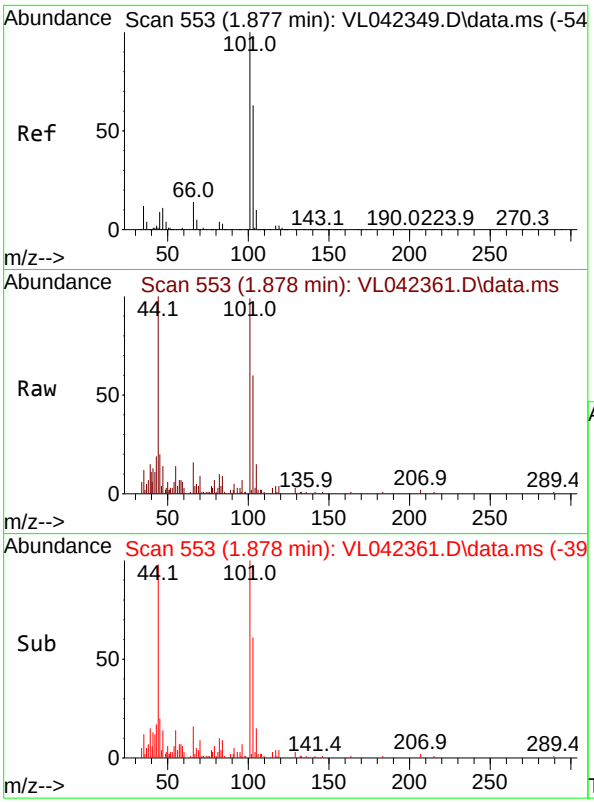


#10
Heptane
Concen: 1.925 ppbv
RT: 4.982 min Scan# 1512
Delta R.T. 0.004 min
Lab File: VL042361.D
Acq: 17 Apr 2025 17:17

Tgt Ion: 43 Resp: 49177

Ion	Ratio	Lower	Upper
43	100		
57	51.2	39.9	59.9



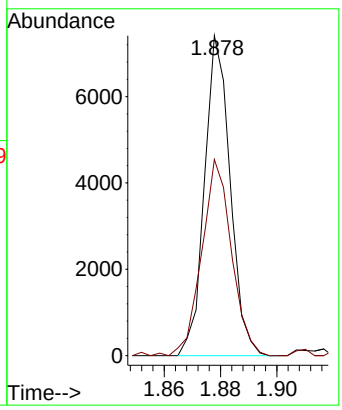


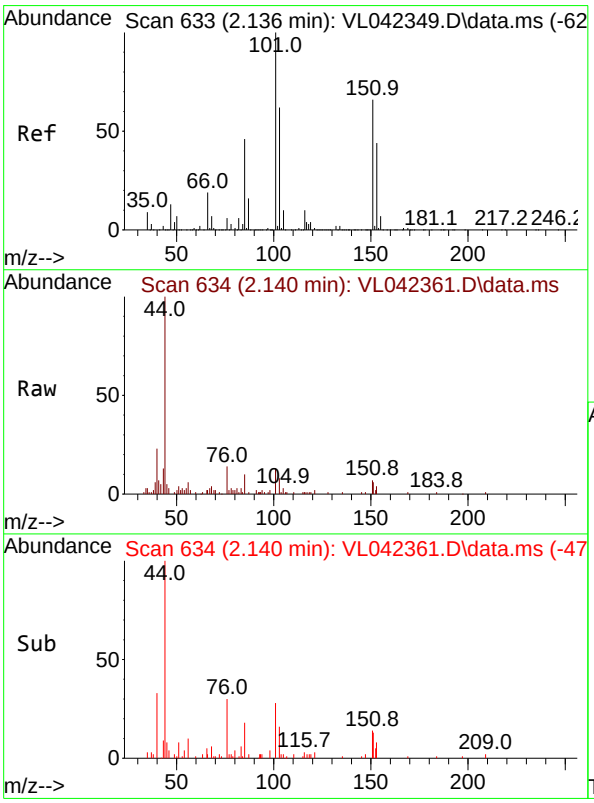
#11
Trichlorofluoromethane
Concen: 0.235 ppbv
RT: 1.878 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL042361.D
Acq: 17 Apr 2025 17:17

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025

Tgt Ion:101 Resp: 4685

Ion	Ratio	Lower	Upper
101	100		
103	61.3	50.1	75.1

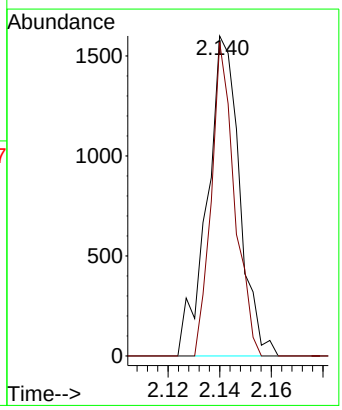


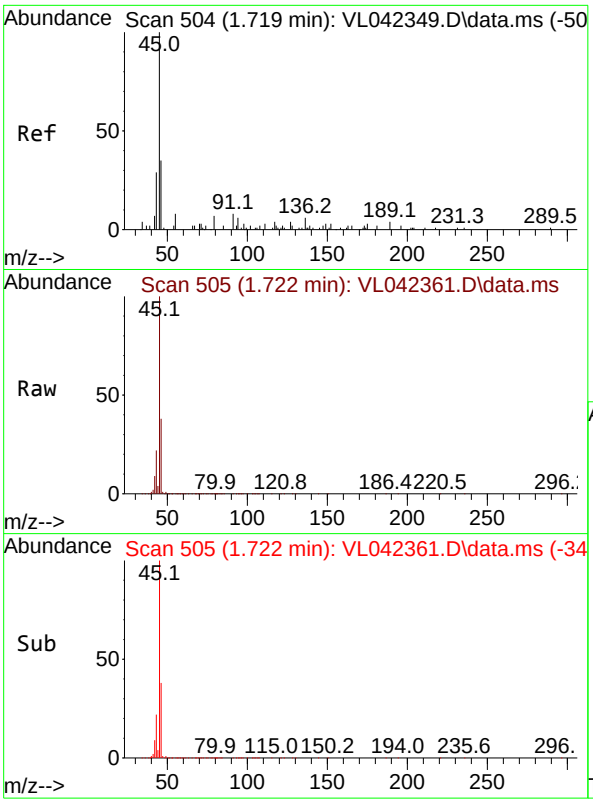


#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.085 ppbv
RT: 2.140 min Scan# 634
Delta R.T. 0.004 min
Lab File: VL042361.D
Acq: 17 Apr 2025 17:17

Tgt Ion:101 Resp: 1388

Ion	Ratio	Lower	Upper
101	100		
151	70.6	57.0	85.6



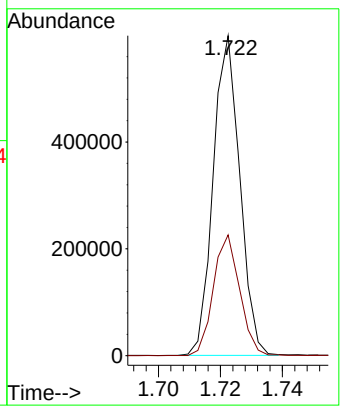


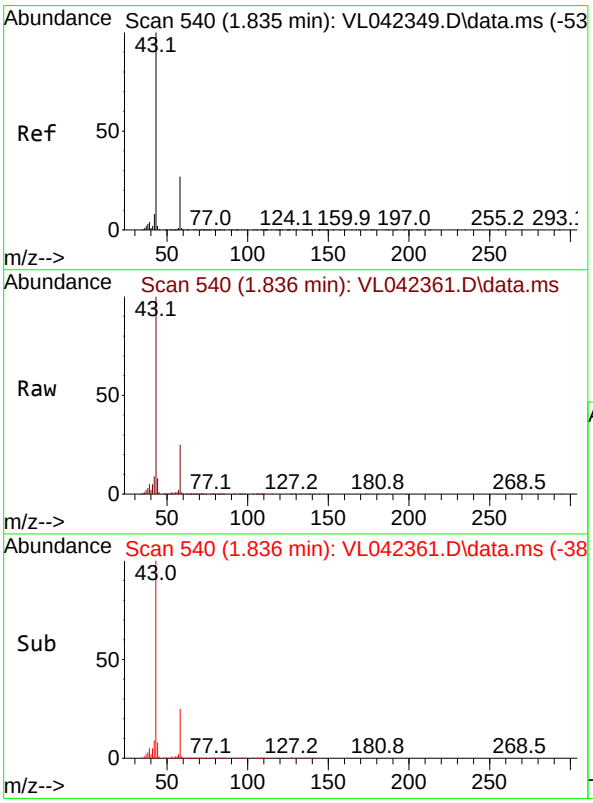
#13
Ethanol
Concen: 247.060 ppbv
RT: 1.722 min Scan# 5
Delta R.T. 0.004 min
Lab File: VL042361.D
Acq: 17 Apr 2025 17:17

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025

Tgt Ion: 45 Resp: 357077

Ion	Ratio	Lower	Upper
45	100		
46	37.6	21.9	87.7

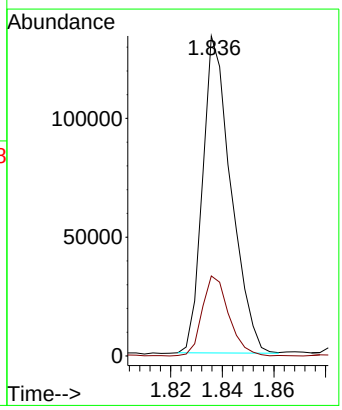


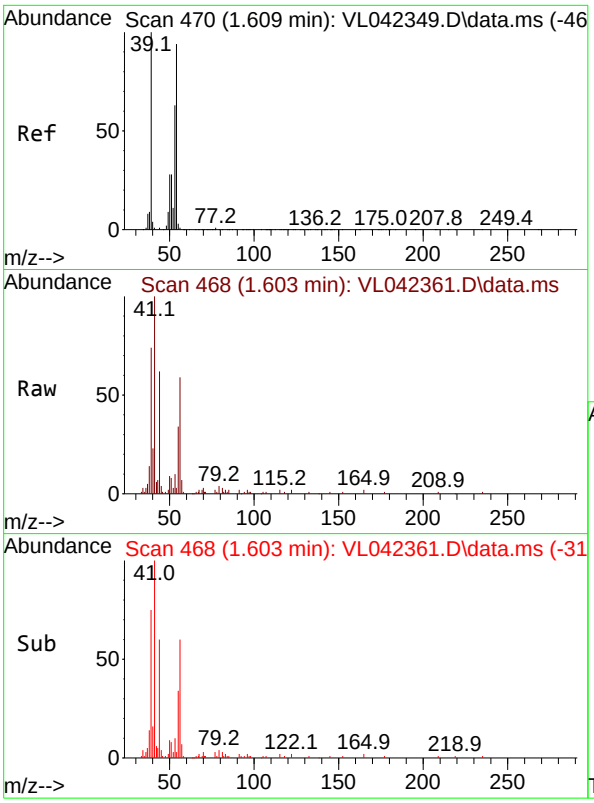


#15
Acetone
Concen: 5.264 ppbv
RT: 1.836 min Scan# 540
Delta R.T. 0.000 min
Lab File: VL042361.D
Acq: 17 Apr 2025 17:17

Tgt Ion: 43 Resp: 102271

Ion	Ratio	Lower	Upper
43	100		
58	23.6	22.4	33.6



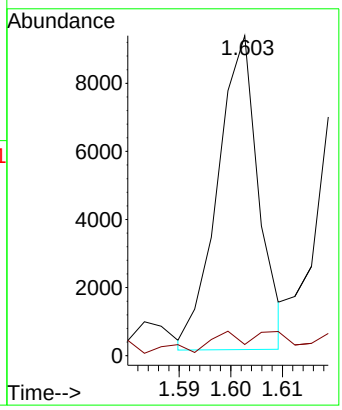


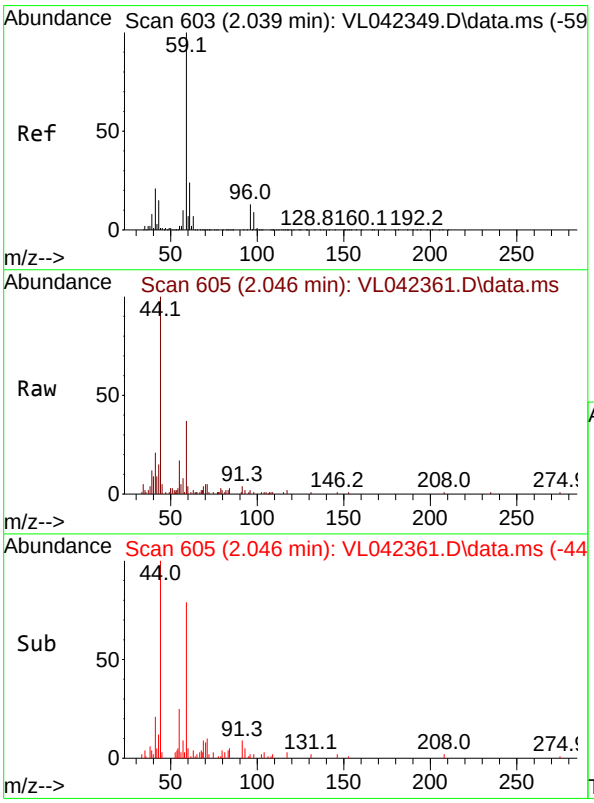
#16
1,3-Butadiene
Concen: 0.551 ppbv
RT: 1.603 min Scan# 4
Delta R.T. -0.006 min
Lab File: VL042361.D
Acq: 17 Apr 2025 17:17

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025

Tgt Ion: 39 Resp: 5117

Ion	Ratio	Lower	Upper
39	100		
54	0.0	64.9	97.3#

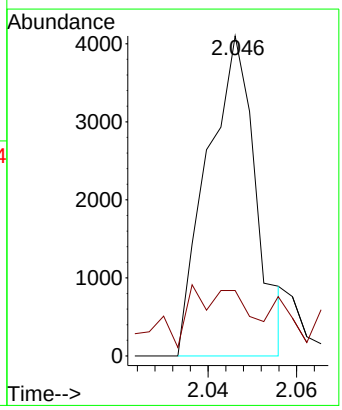


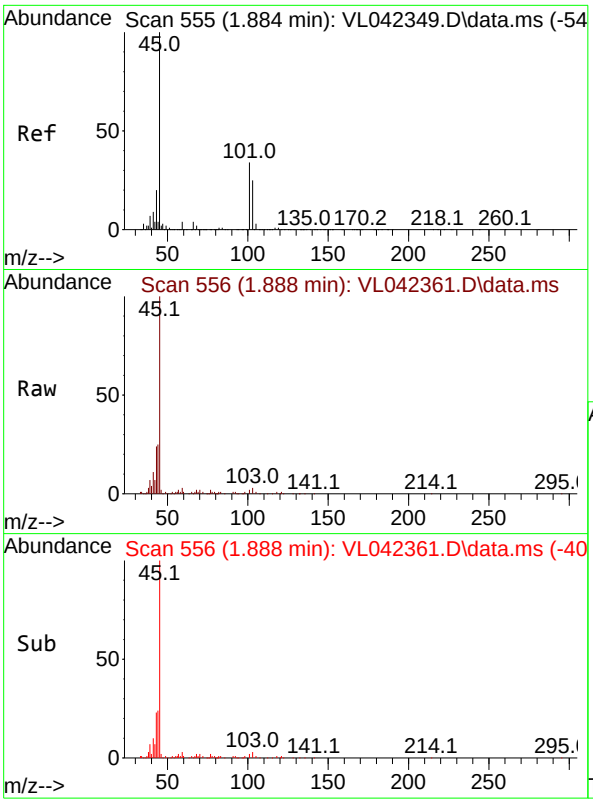


#17
tert-Butyl alcohol
Concen: 0.130 ppbv
RT: 2.046 min Scan# 605
Delta R.T. 0.007 min
Lab File: VL042361.D
Acq: 17 Apr 2025 17:17

Tgt Ion: 59 Resp: 3120

Ion	Ratio	Lower	Upper
59	100		
57	35.8	8.7	13.1#



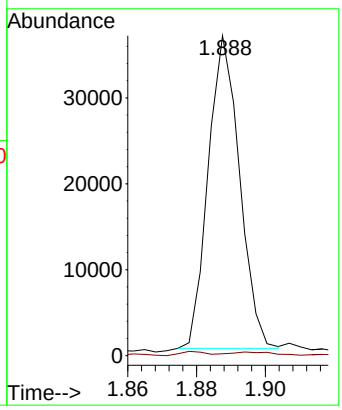


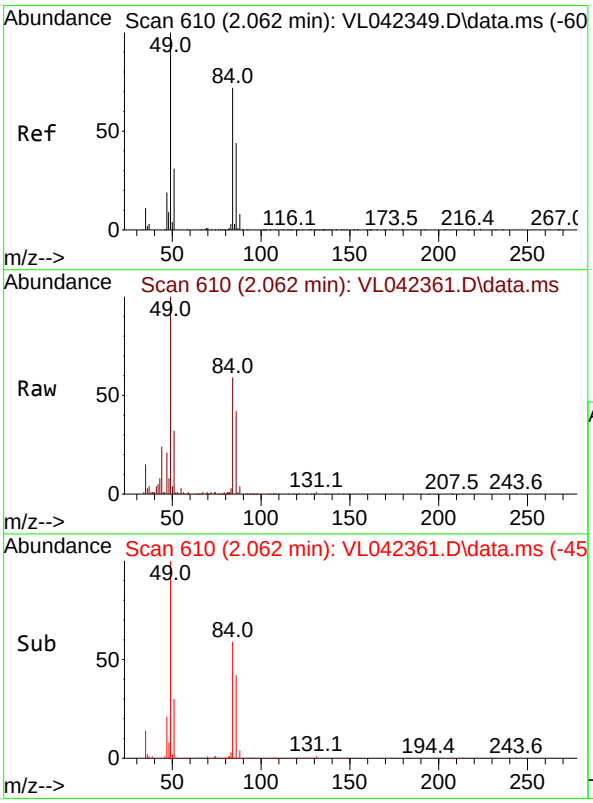
#19
Isopropyl Alcohol
Concen: 2.133 ppbv
RT: 1.888 min Scan# 5
Delta R.T. 0.004 min
Lab File: VL042361.D
Acq: 17 Apr 2025 17:17

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025

Tgt Ion: 45 Resp: 23025

Ion	Ratio	Lower	Upper
45	100		
58	105.0	34.5	51.7#

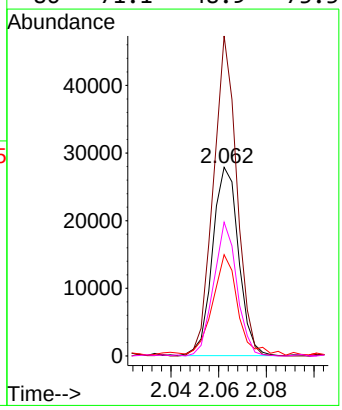


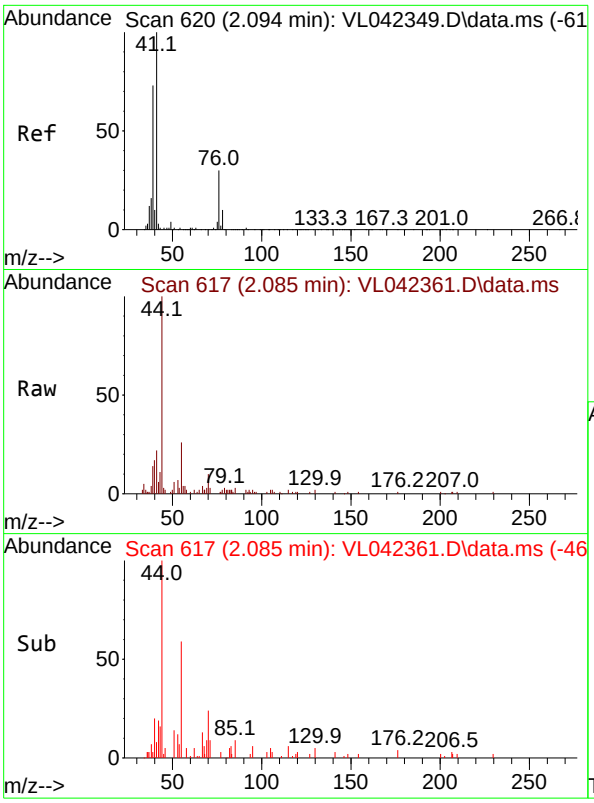


#20
Methylene Chloride
Concen: 2.782 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.000 min
Lab File: VL042361.D
Acq: 17 Apr 2025 17:17

Tgt Ion: 84 Resp: 21165

Ion	Ratio	Lower	Upper
84	100		
49	170.0	111.6	167.4#
51	52.3	35.1	52.7
86	71.1	48.9	73.3



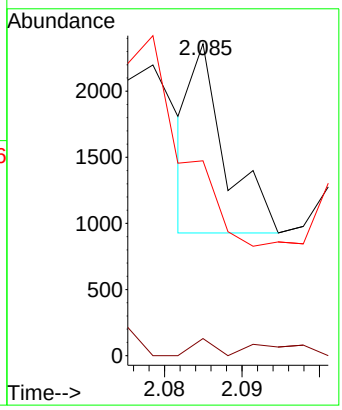


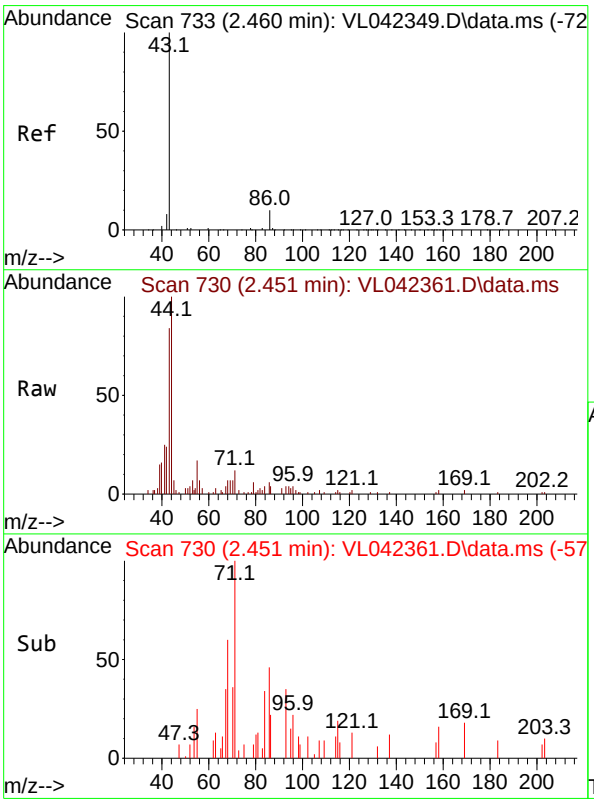
#21
Allyl Chloride
Concen: 0.032 ppbv
RT: 2.085 min Scan# 61
Delta R.T. -0.009 min
Lab File: VL042361.D
Acq: 17 Apr 2025 17:17

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025

Tgt Ion: 41 Resp: 432

Ion	Ratio	Lower	Upper
41	100		
76	0.0	24.8	37.2#
39	353.5	60.6	90.8#

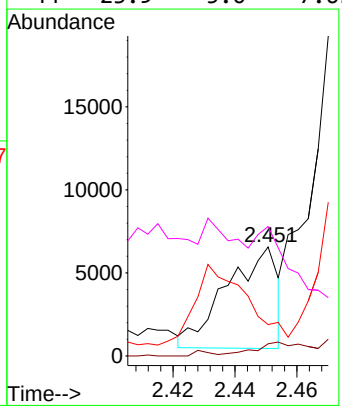


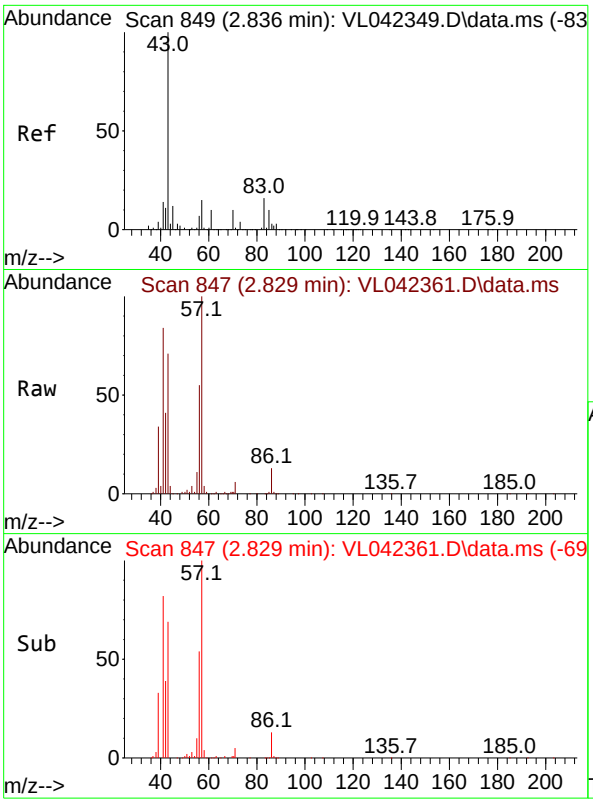


#23
Vinyl Acetate
Concen: 0.883 ppbv
RT: 2.451 min Scan# 730
Delta R.T. -0.009 min
Lab File: VL042361.D
Acq: 17 Apr 2025 17:17

Tgt Ion: 43 Resp: 6946

Ion	Ratio	Lower	Upper
43	100		
86	13.7	6.5	9.7#
42	13.2	7.8	11.8#
44	23.9	5.0	7.6#



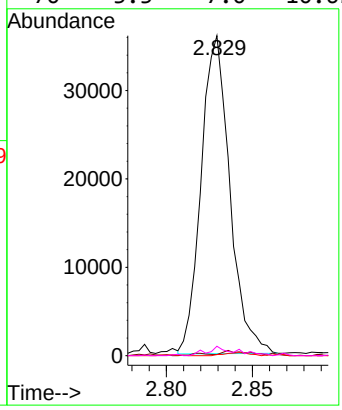


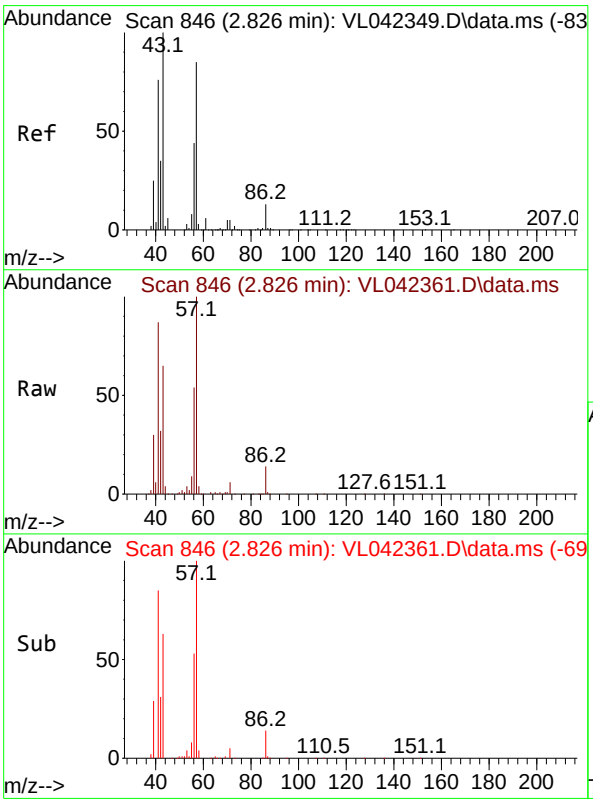
#25
Ethyl Acetate
Concen: 0.871 ppbv
RT: 2.829 min Scan# 84
Delta R.T. -0.006 min
Lab File: VL042361.D
Acq: 17 Apr 2025 17:17

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025

Tgt Ion: 43 Resp: 41711

Ion	Ratio	Lower	Upper
43	100		
45	1.7	8.3	12.5#
61	1.2	7.3	10.9#
70	3.3	7.0	10.6#

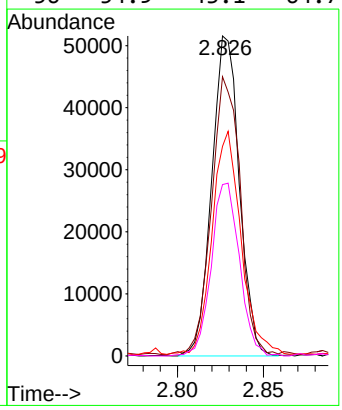


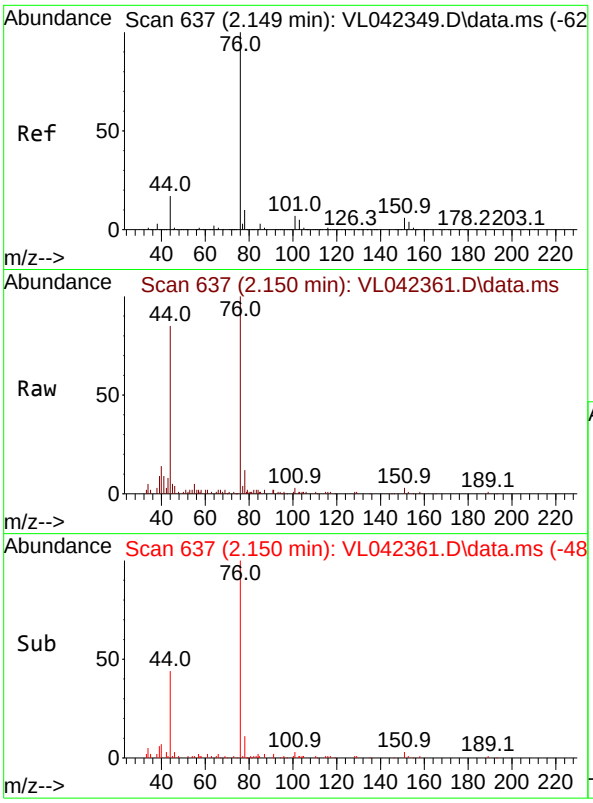


#26
Hexane
Concen: 2.977 ppbv
RT: 2.826 min Scan# 846
Delta R.T. 0.000 min
Lab File: VL042361.D
Acq: 17 Apr 2025 17:17

Tgt Ion: 57 Resp: 57707

Ion	Ratio	Lower	Upper
57	100		
41	91.6	77.9	116.9
43	72.6	208.4	312.6#
56	54.9	43.1	64.7



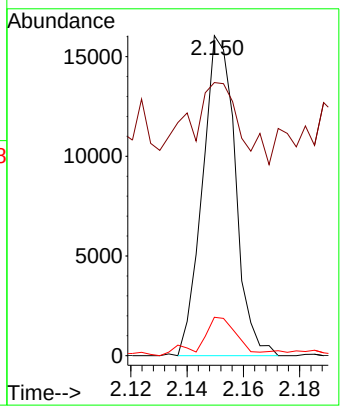


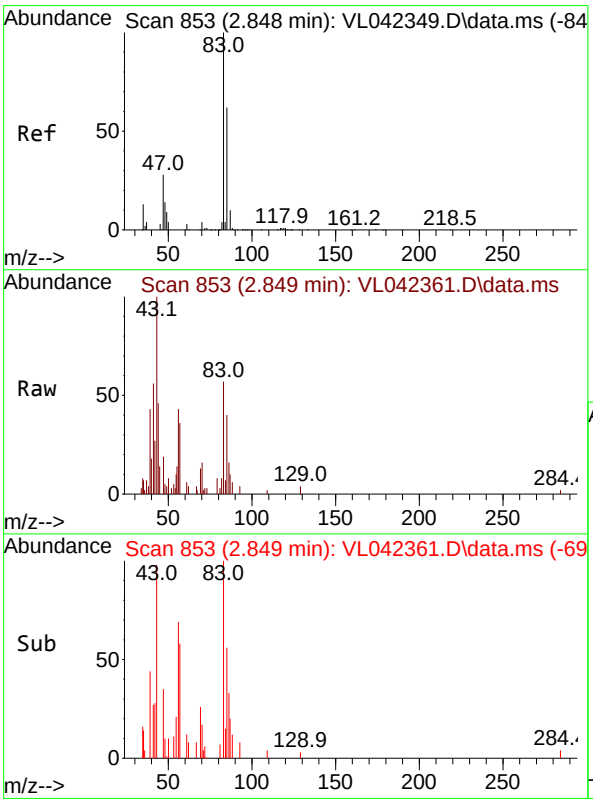
#27
Carbon Disulfide
Concen: 0.626 ppbv
RT: 2.150 min Scan# 6
Delta R.T. 0.000 min
Lab File: VL042361.D
Acq: 17 Apr 2025 17:17

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025

Tgt Ion: 76 Resp: 12989

Ion	Ratio	Lower	Upper
76	100		
44	112.3	15.5	23.3#
78	16.4	9.3	13.9#

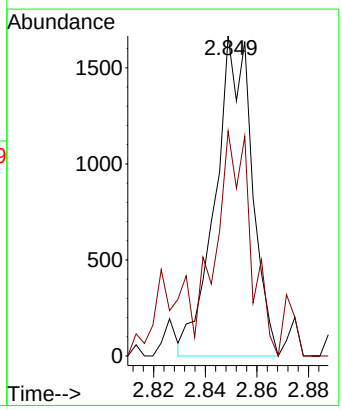


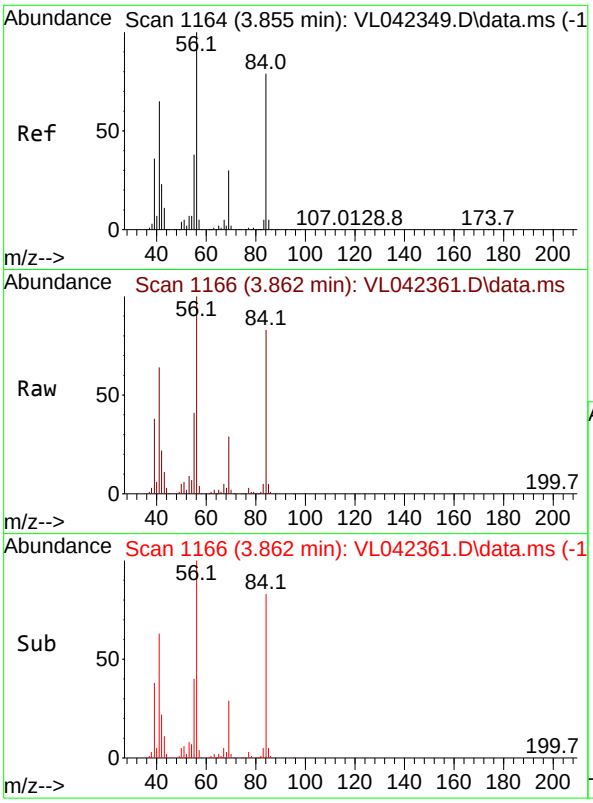


#29
Chloroform
Concen: 0.060 ppbv
RT: 2.849 min Scan# 853
Delta R.T. 0.000 min
Lab File: VL042361.D
Acq: 17 Apr 2025 17:17

Tgt Ion: 83 Resp: 1642

Ion	Ratio	Lower	Upper
83	100		
85	70.3	50.0	75.0



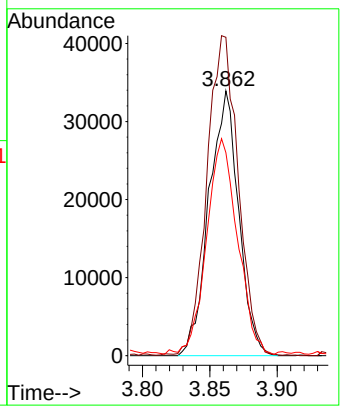


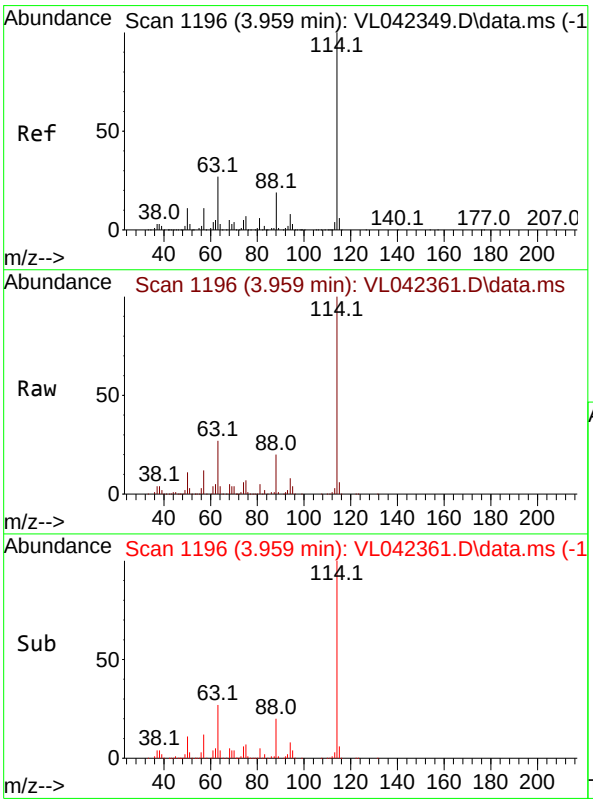
#30
Cyclohexane
Concen: 3.319 ppbv
RT: 3.862 min Scan# 11
Delta R.T. 0.007 min
Lab File: VL042361.D
Acq: 17 Apr 2025 17:17

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025

Tgt Ion: 84 Resp: 52016

Ion	Ratio	Lower	Upper
84	100		
56	127.7	101.0	151.4
41	84.4	67.4	101.0

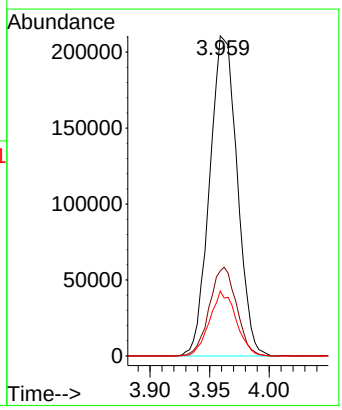


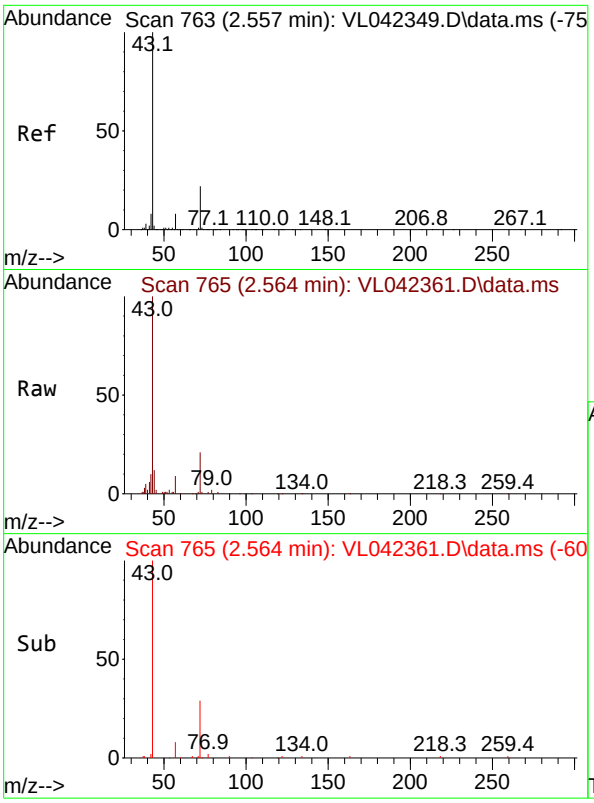


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.959 min Scan# 1196
Delta R.T. 0.000 min
Lab File: VL042361.D
Acq: 17 Apr 2025 17:17

Tgt Ion:114 Resp: 339191

Ion	Ratio	Lower	Upper
114	100		
63	27.2	21.8	32.6
88	19.5	15.5	23.3



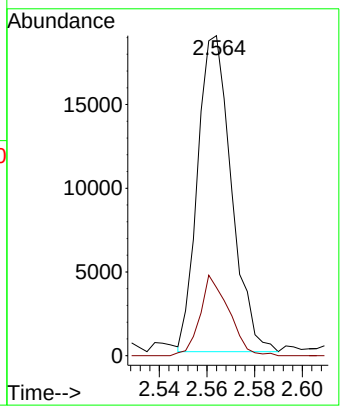


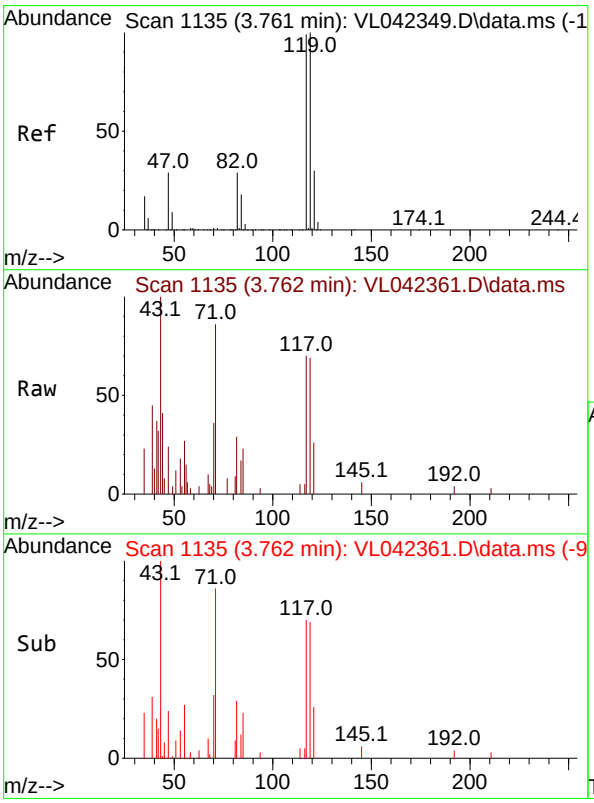
#34
2-Butanone
Concen: 0.693 ppbv
RT: 2.564 min Scan# 7
Delta R.T. 0.007 min
Lab File: VL042361.D
Acq: 17 Apr 2025 17:17

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025

Tgt Ion: 43 Resp: 18598

Ion	Ratio	Lower	Upper
43	100		
72	21.7	18.2	27.2

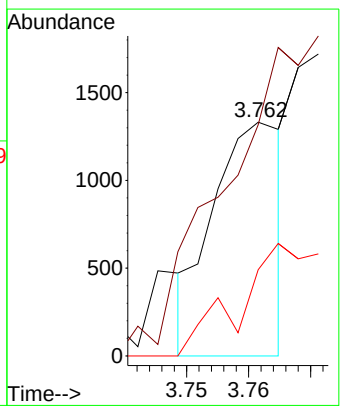


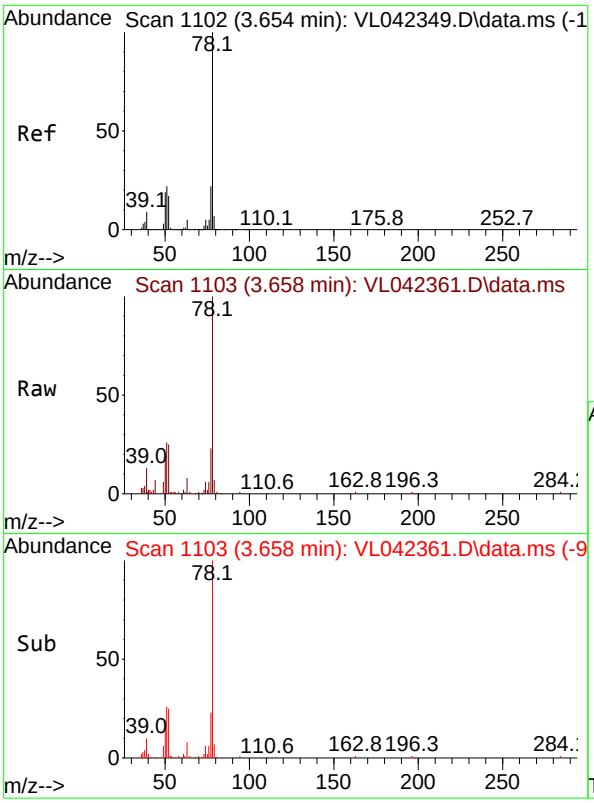


#35
Carbon Tetrachloride
Concen: 0.034 ppbv
RT: 3.762 min Scan# 1135
Delta R.T. 0.000 min
Lab File: VL042361.D
Acq: 17 Apr 2025 17:17

Tgt Ion:117 Resp: 1037

Ion	Ratio	Lower	Upper
117	100		
119	84.2	80.5	120.7
121	57.1	24.2	36.2#



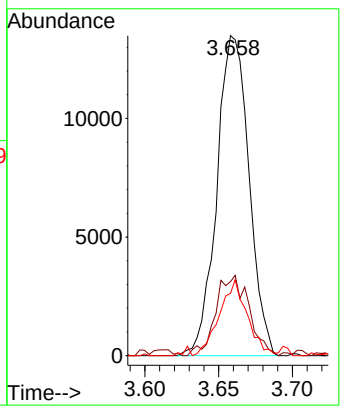


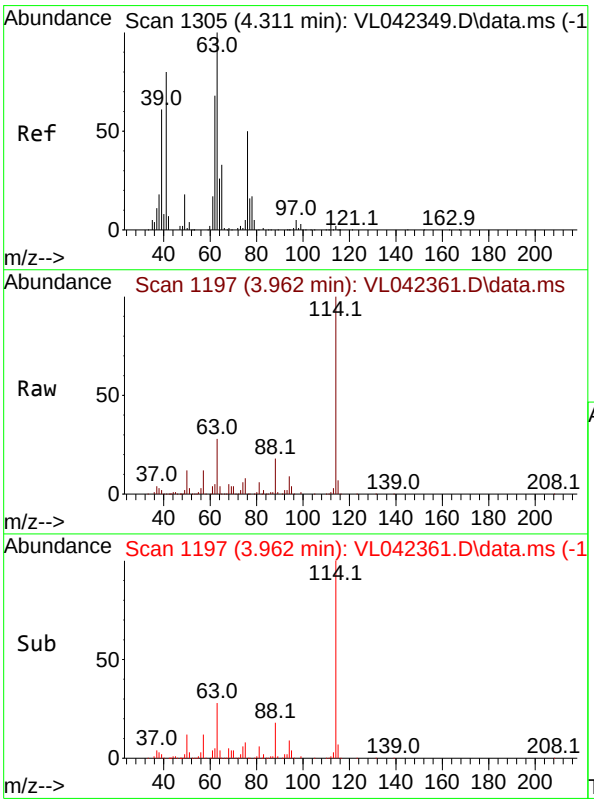
#36
Benzene
Concen: 0.561 ppbv
RT: 3.658 min Scan# 11
Delta R.T. 0.004 min
Lab File: VL042361.D
Acq: 17 Apr 2025 17:17

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025

Tgt Ion: 78 Resp: 20521

Ion	Ratio	Lower	Upper
78	100		
77	23.1	17.4	26.0
50	18.7	15.5	23.3

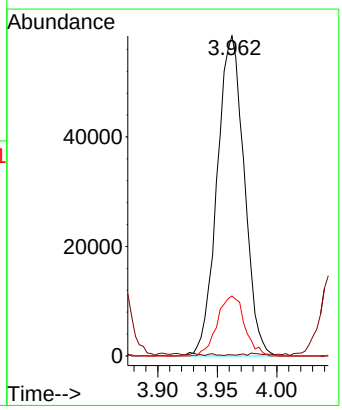


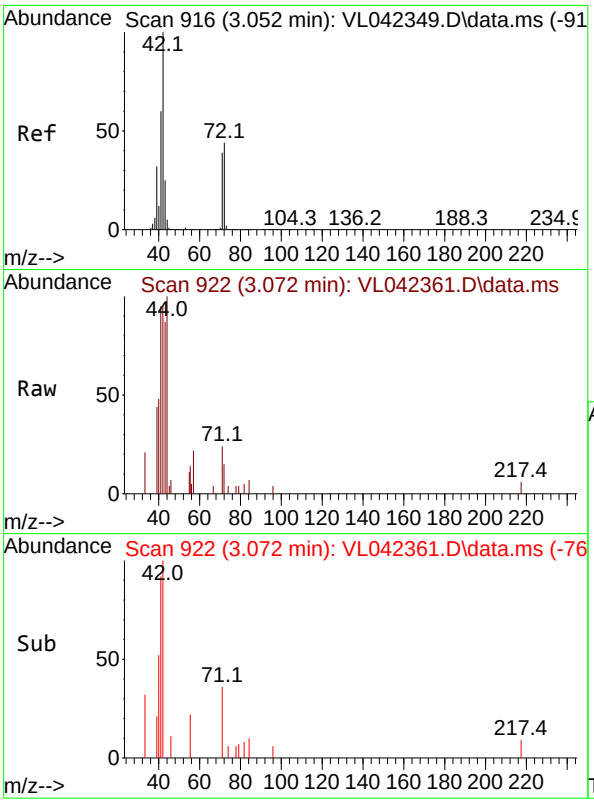


#39
1,2-Dichloropropane
Concen: 6.775 ppbv
RT: 3.962 min Scan# 1197
Delta R.T. -0.349 min
Lab File: VL042361.D
Acq: 17 Apr 2025 17:17

Tgt Ion: 63 Resp: 92371

Ion	Ratio	Lower	Upper
63	100		
41	0.0	64.2	96.2#
62	18.7	54.3	81.5#



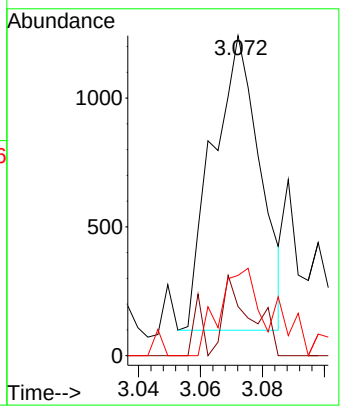


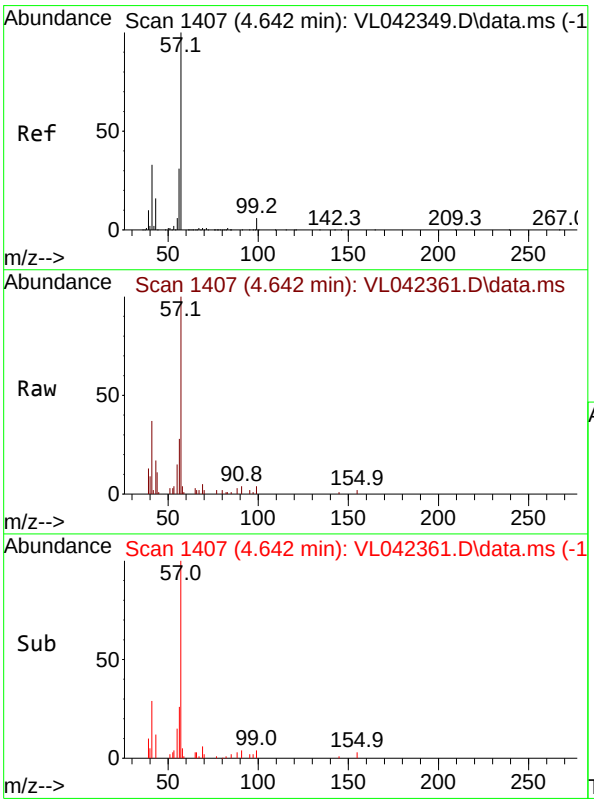
#41
Tetrahydrofuran
Concen: 0.078 ppbv
RT: 3.072 min Scan# 9
Delta R.T. 0.020 min
Lab File: VL042361.D
Acq: 17 Apr 2025 17:17

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025

Tgt Ion: 42 Resp: 1220

Ion	Ratio	Lower	Upper
42	100		
72	19.9	32.3	48.5#
71	35.8	31.4	47.2

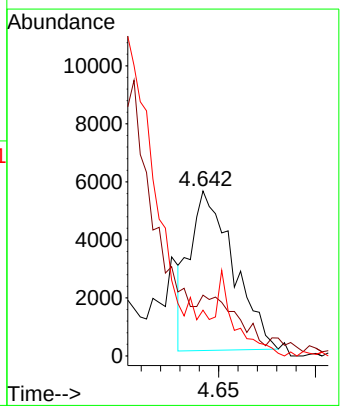


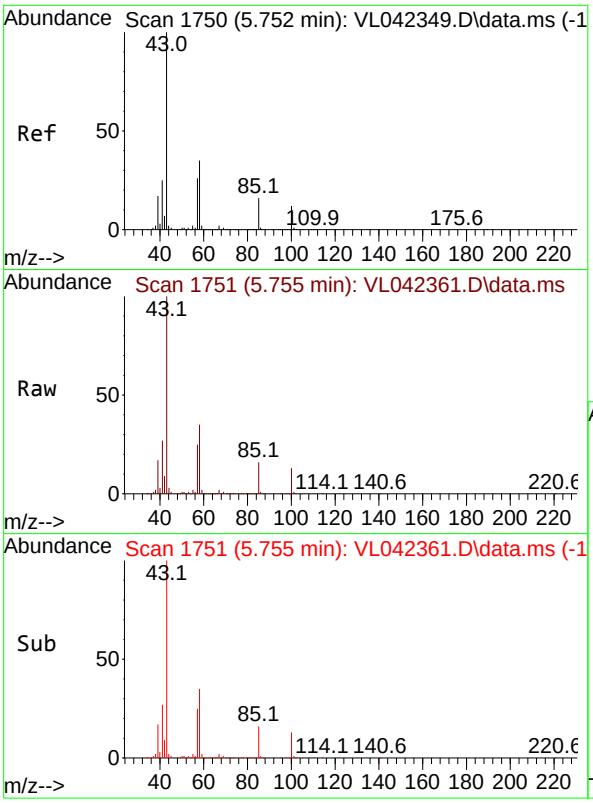


#44
2,2,4-Trimethylpentane
Concen: 0.136 ppbv
RT: 4.642 min Scan# 1407
Delta R.T. 0.000 min
Lab File: VL042361.D
Acq: 17 Apr 2025 17:17

Tgt Ion: 57 Resp: 8612

Ion	Ratio	Lower	Upper
57	100		
41	0.0	27.2	40.8#
56	0.0	25.7	38.5#



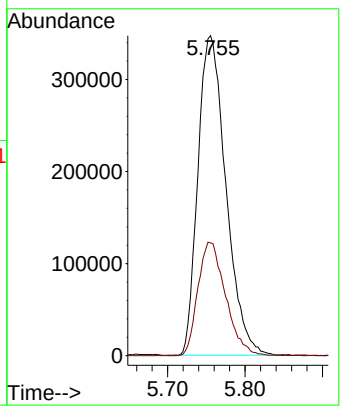


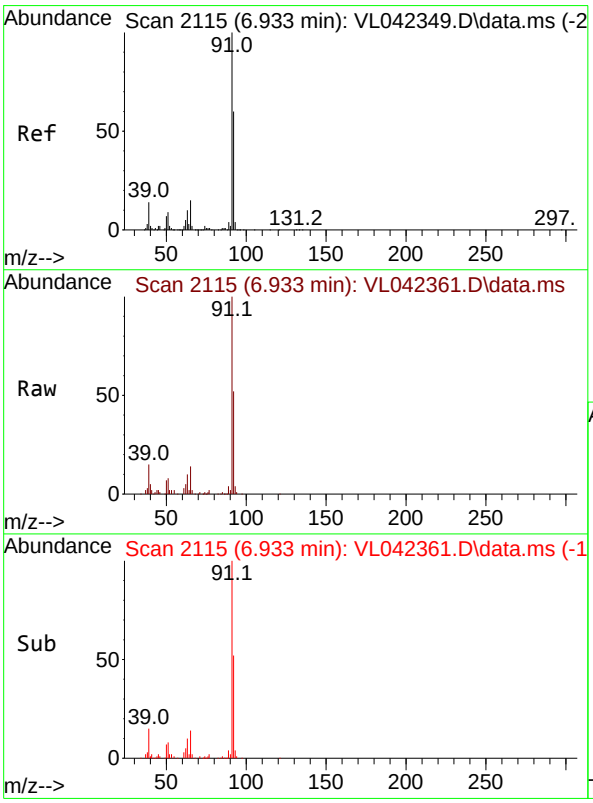
#50
4-Methyl-2-Pentanone
Concen: 19.593 ppbv
RT: 5.755 min Scan# 1
Delta R.T. 0.004 min
Lab File: VL042361.D
Acq: 17 Apr 2025 17:17

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025

Tgt Ion: 43 Resp: 873418

Ion	Ratio	Lower	Upper
43	100		
58	35.2	28.6	43.0

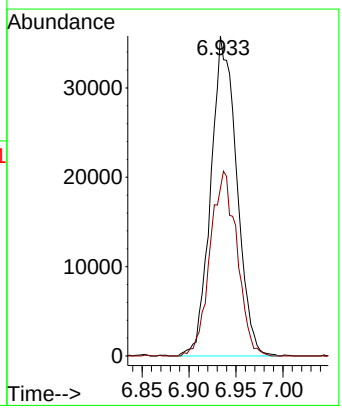


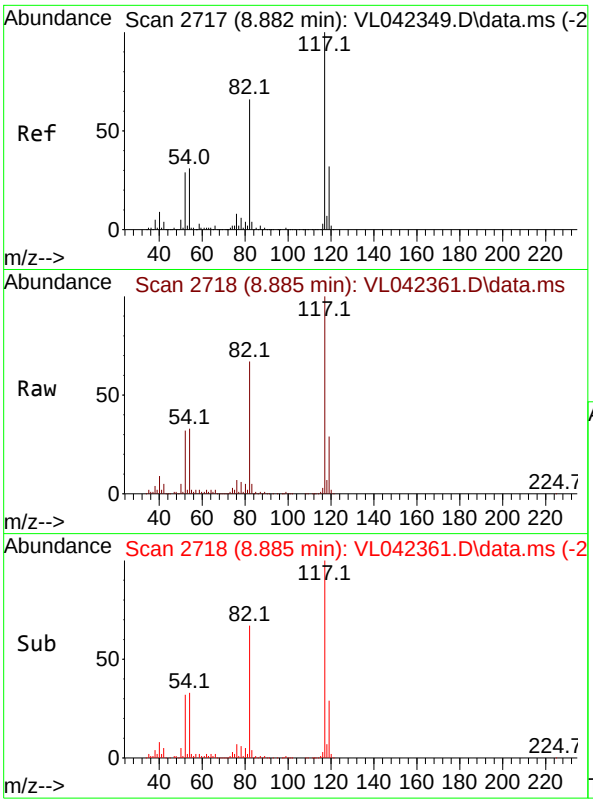


#53
Toluene
Concen: 1.565 ppbv
RT: 6.933 min Scan# 2115
Delta R.T. 0.000 min
Lab File: VL042361.D
Acq: 17 Apr 2025 17:17

Tgt Ion: 91 Resp: 68700

Ion	Ratio	Lower	Upper
91	100		
92	59.9	48.2	72.4



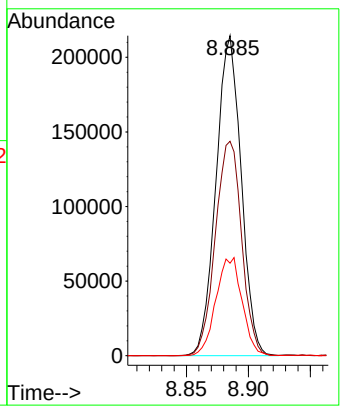


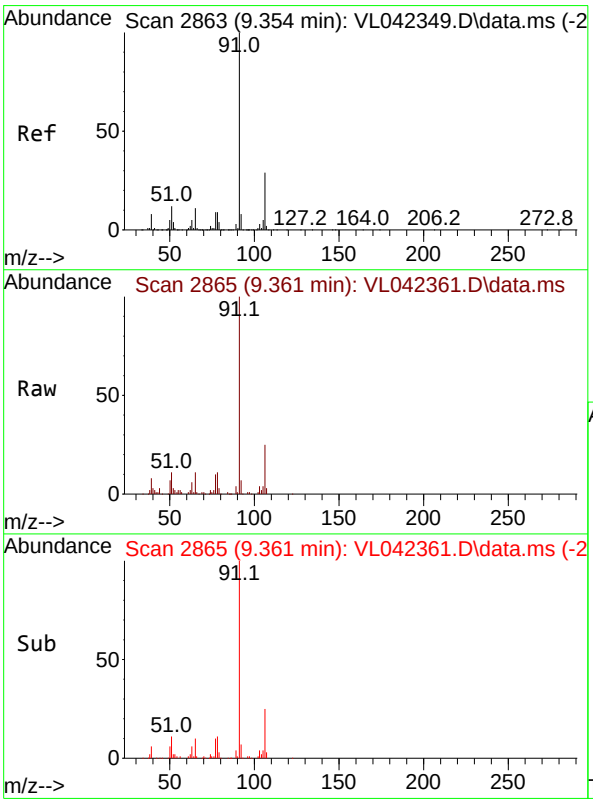
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.885 min Scan# 2
Delta R.T. 0.004 min
Lab File: VL042361.D
Acq: 17 Apr 2025 17:17

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025

Tgt Ion:117 Resp: 303501

Ion	Ratio	Lower	Upper
117	100		
82	70.1	57.8	86.6
119	32.1	25.2	37.8

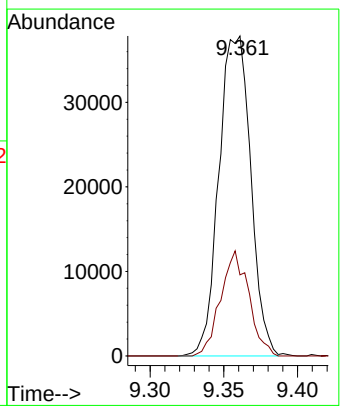


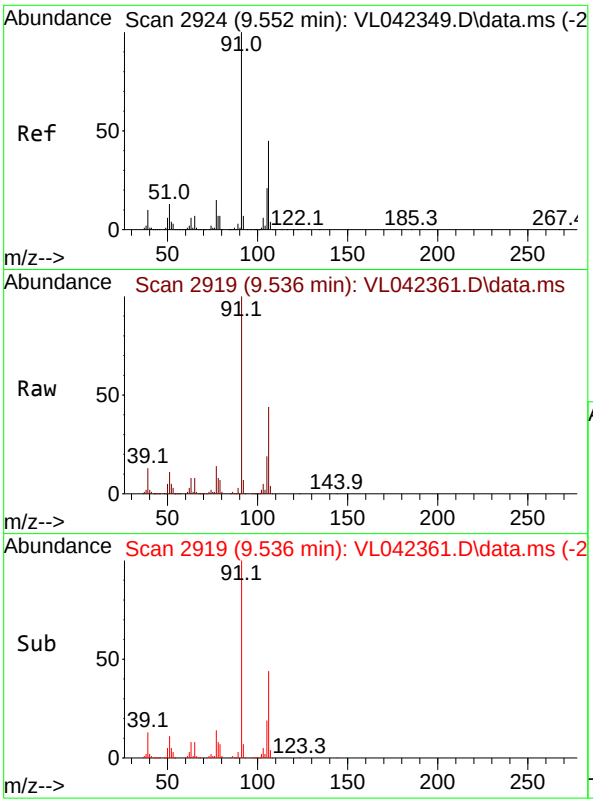


#58
Ethyl Benzene
Concen: 0.944 ppbv
RT: 9.361 min Scan# 2865
Delta R.T. 0.007 min
Lab File: VL042361.D
Acq: 17 Apr 2025 17:17

Tgt Ion: 91 Resp: 56772

Ion	Ratio	Lower	Upper
91	100		
106	25.4	23.0	34.4



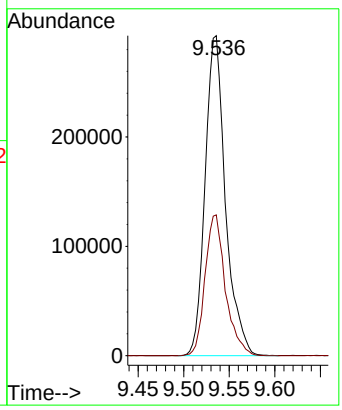


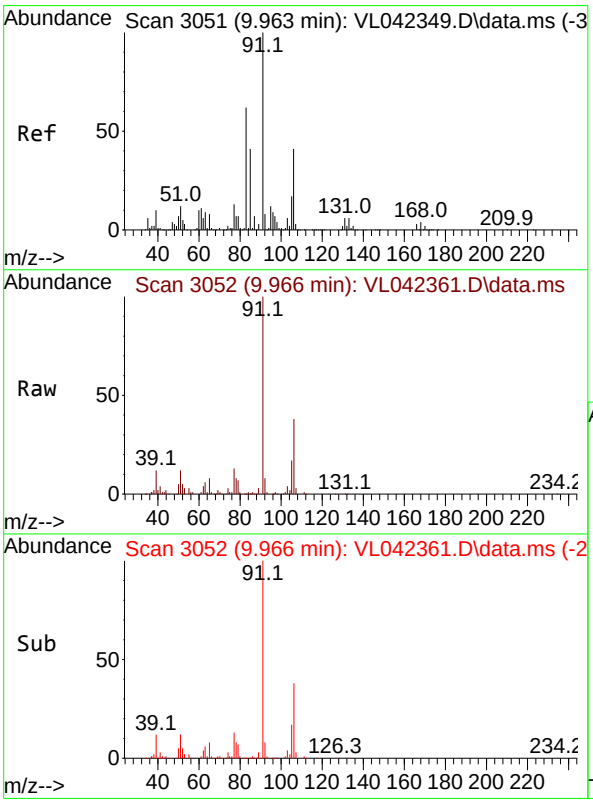
#59
m/p-Xylene
Concen: 9.382 ppbv
RT: 9.536 min Scan# 2
Delta R.T. -0.016 min
Lab File: VL042361.D
Acq: 17 Apr 2025 17:17

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025

Tgt Ion: 91 Resp: 454491

Ion	Ratio	Lower	Upper
91	100		
106	44.0	35.4	53.2

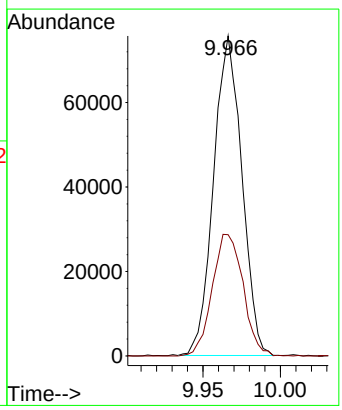


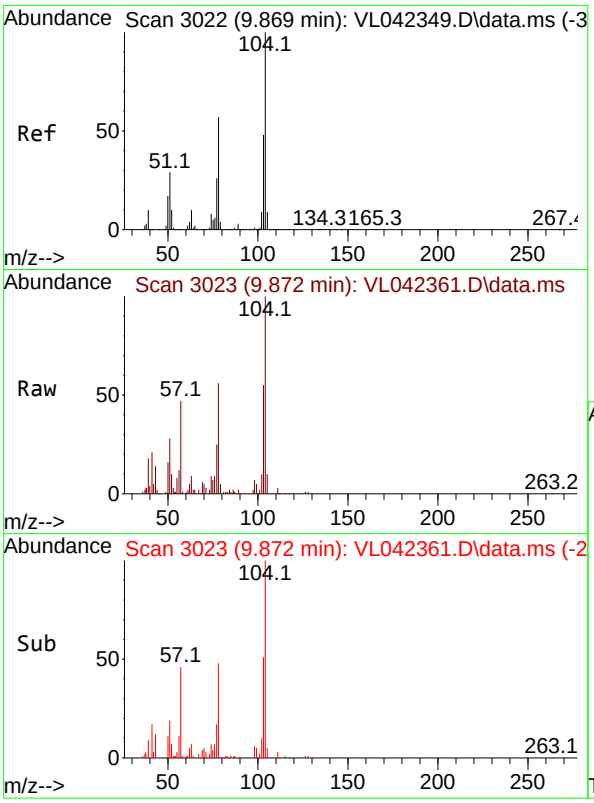


#60
o-Xylene
Concen: 1.966 ppbv
RT: 9.966 min Scan# 3052
Delta R.T. 0.004 min
Lab File: VL042361.D
Acq: 17 Apr 2025 17:17

Tgt Ion: 91 Resp: 95896

Ion	Ratio	Lower	Upper
91	100		
106	41.6	21.1	63.4



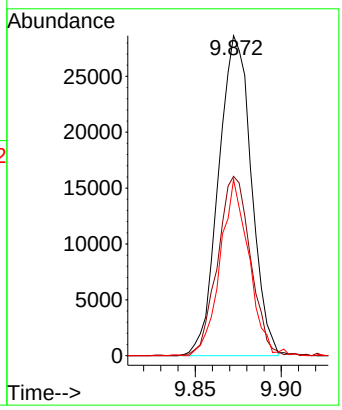


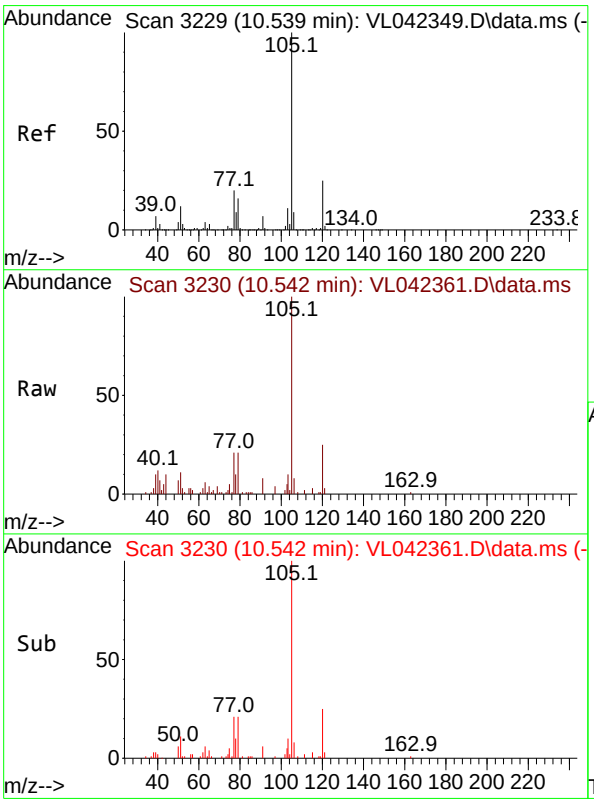
#61
Styrene
Concen: 1.629 ppbv
RT: 9.872 min Scan# 3
Delta R.T. 0.004 min
Lab File: VL042361.D
Acq: 17 Apr 2025 17:17

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025

Tgt Ion:104 Resp: 37931

Ion	Ratio	Lower	Upper
104	100		
78	56.6	44.6	66.8
103	48.5	37.4	56.0

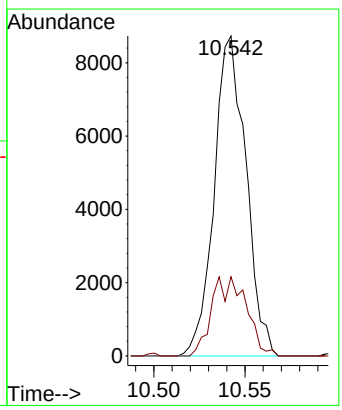


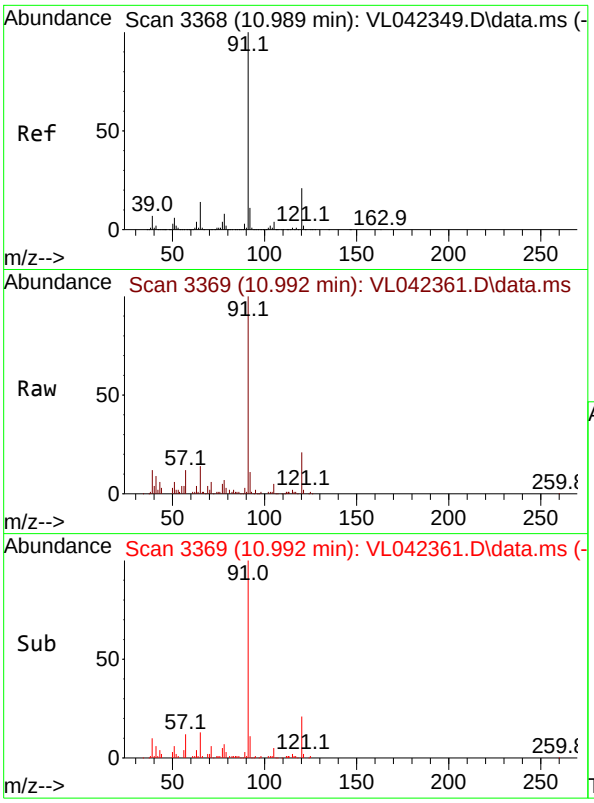


#62
Isopropylbenzene
Concen: 0.148 ppbv
RT: 10.542 min Scan# 3230
Delta R.T. 0.004 min
Lab File: VL042361.D
Acq: 17 Apr 2025 17:17

Tgt Ion:105 Resp: 10580

Ion	Ratio	Lower	Upper
105	100		
120	27.2	19.8	29.8



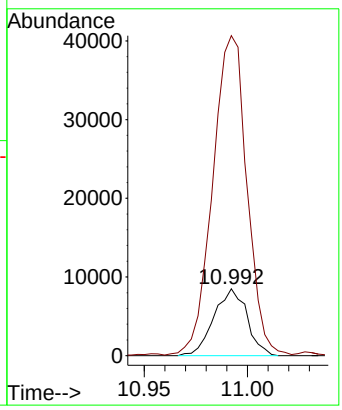


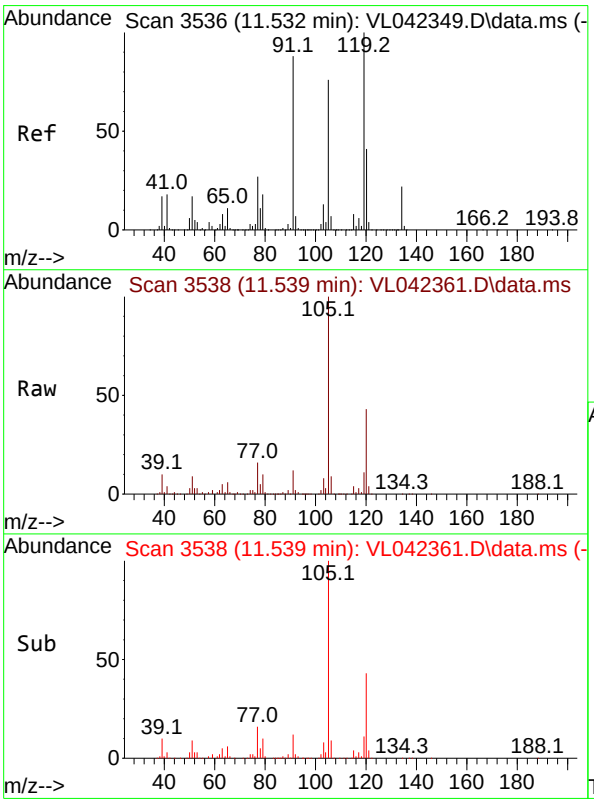
#64
n-propylbenzene
Concen: 0.527 ppbv
RT: 10.992 min Scan# 3
Delta R.T. 0.004 min
Lab File: VL042361.D
Acq: 17 Apr 2025 17:17

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025

Tgt Ion:120 Resp: 9483

Ion	Ratio	Lower	Upper
120	100		
91	500.9	392.4	588.6

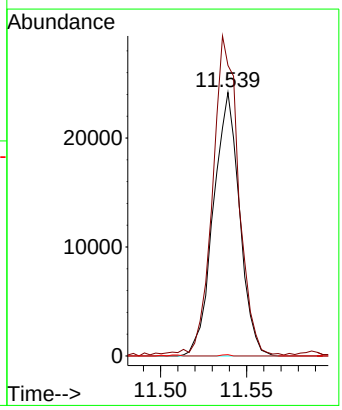


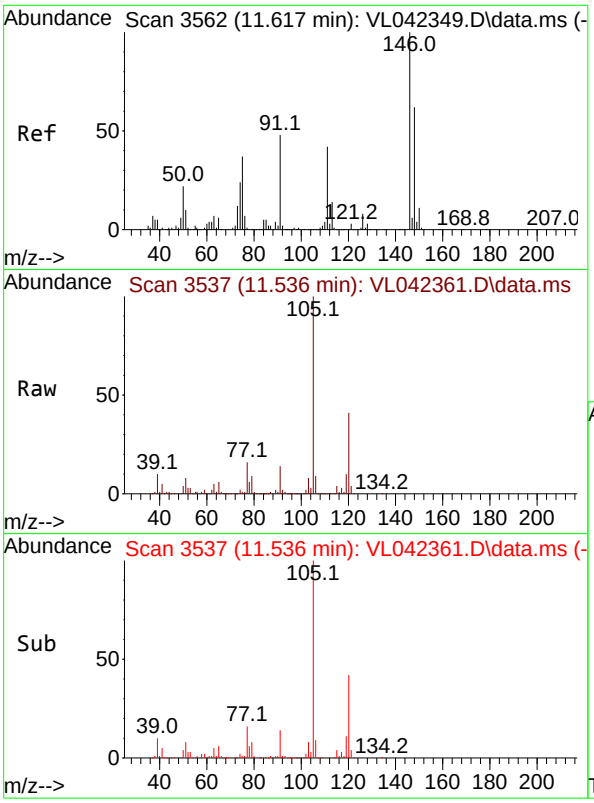


#65
tert-Butylbenzene
Concen: 0.389 ppbv
RT: 11.539 min Scan# 3538
Delta R.T. 0.007 min
Lab File: VL042361.D
Acq: 17 Apr 2025 17:17

Tgt Ion:119 Resp: 25601

Ion	Ratio	Lower	Upper
119	100		
91	120.1	74.6	111.8#
134	0.0	18.8	28.2#



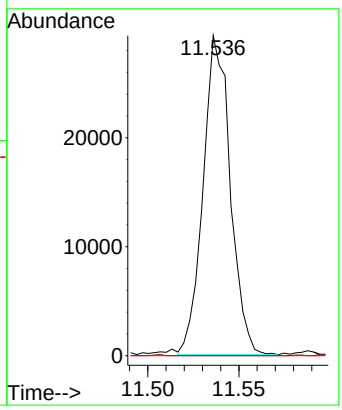


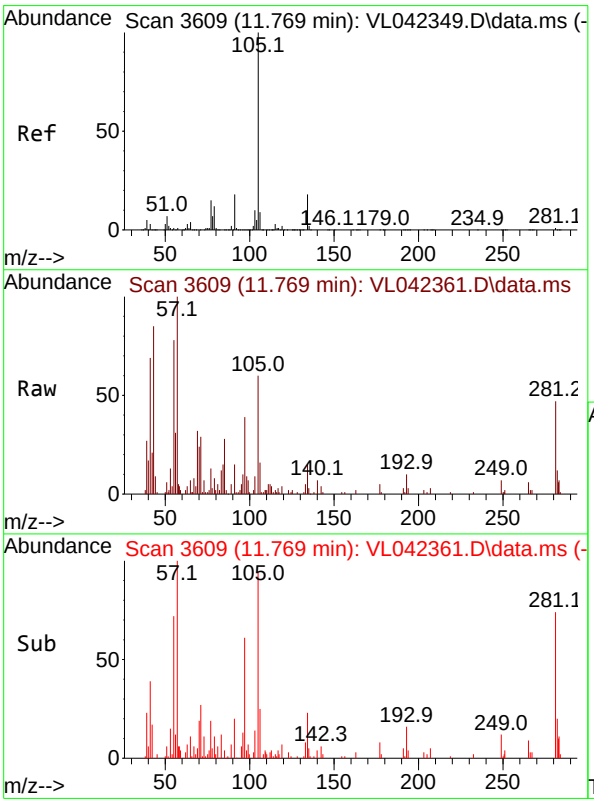
#66
Benzyl Chloride
Concen: 4.204 ppbv
RT: 11.536 min Scan# 3
Delta R.T. -0.081 min
Lab File: VL042361.D
Acq: 17 Apr 2025 17:17

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025

Tgt Ion: 91 Resp: 30407

Ion	Ratio	Lower	Upper
91	100		
126	0.2	11.8	17.6#
128	0.0	4.5	6.7#

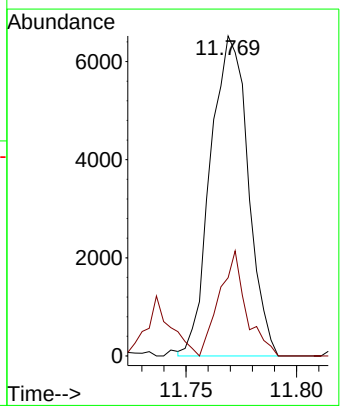


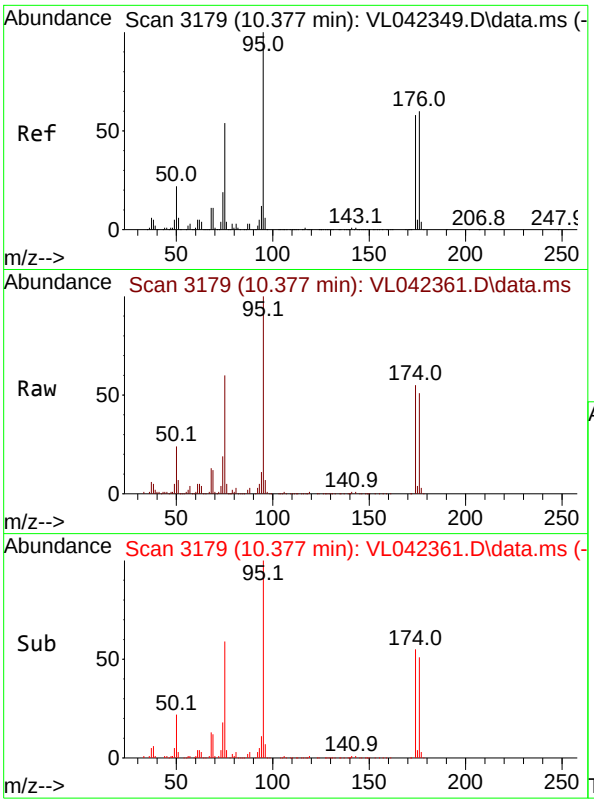


#67
sec-Butylbenzene
Concen: 0.084 ppbv
RT: 11.769 min Scan# 3609
Delta R.T. 0.000 min
Lab File: VL042361.D
Acq: 17 Apr 2025 17:17

Tgt Ion:105 Resp: 7719

Ion	Ratio	Lower	Upper
105	100		
134	35.6	14.6	21.8#



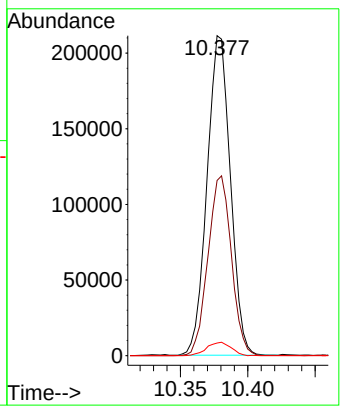


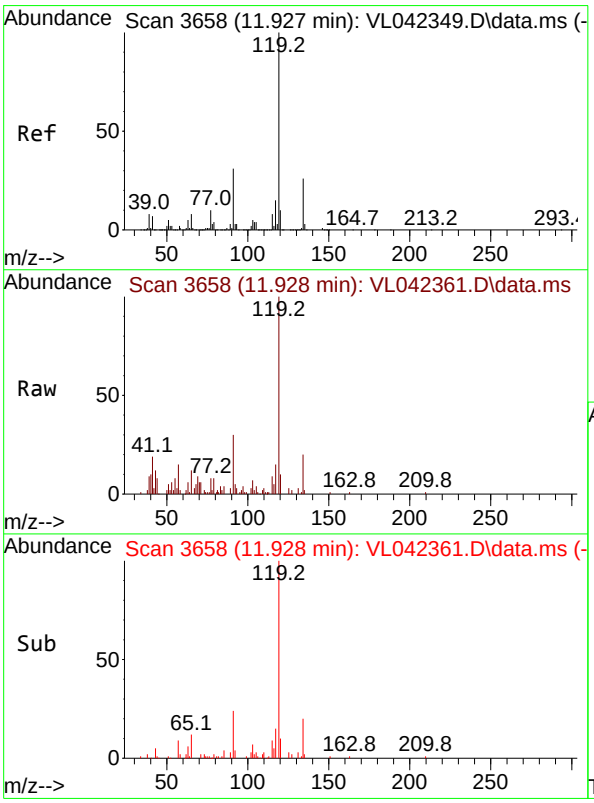
#68
1-Bromo-4-Fluorobenzene
Concen: 10.201 ppbv
RT: 10.377 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042361.D
Acq: 17 Apr 2025 17:17

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025

Tgt Ion: 95 Resp: 254412

Ion	Ratio	Lower	Upper
95	100		
174	56.7	48.5	72.7
175	4.4	3.7	5.5

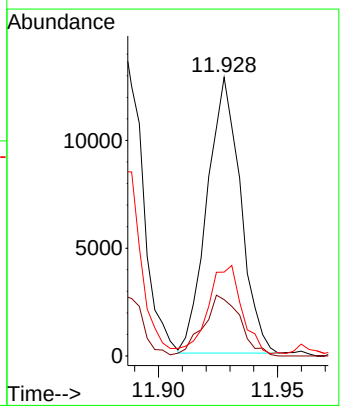


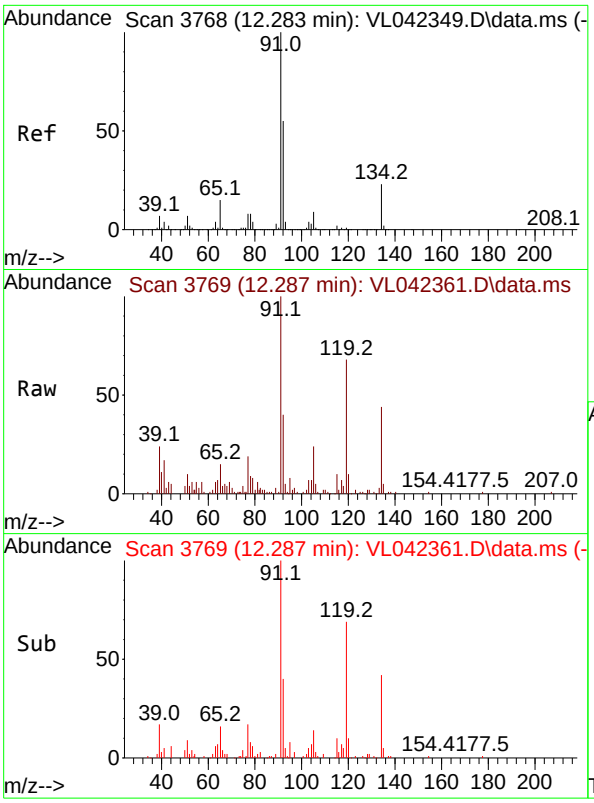


#69
p-Isopropyltoluene
Concen: 0.157 ppbv
RT: 11.928 min Scan# 3658
Delta R.T. 0.000 min
Lab File: VL042361.D
Acq: 17 Apr 2025 17:17

Tgt Ion:119 Resp: 12502

Ion	Ratio	Lower	Upper
119	100		
134	24.0	20.0	30.0
91	30.2	24.4	36.6



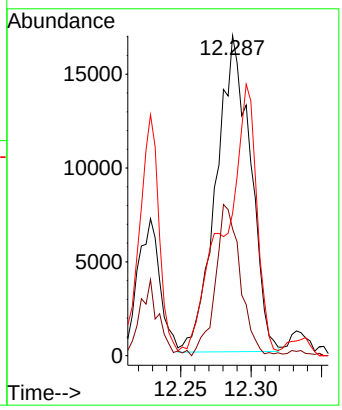


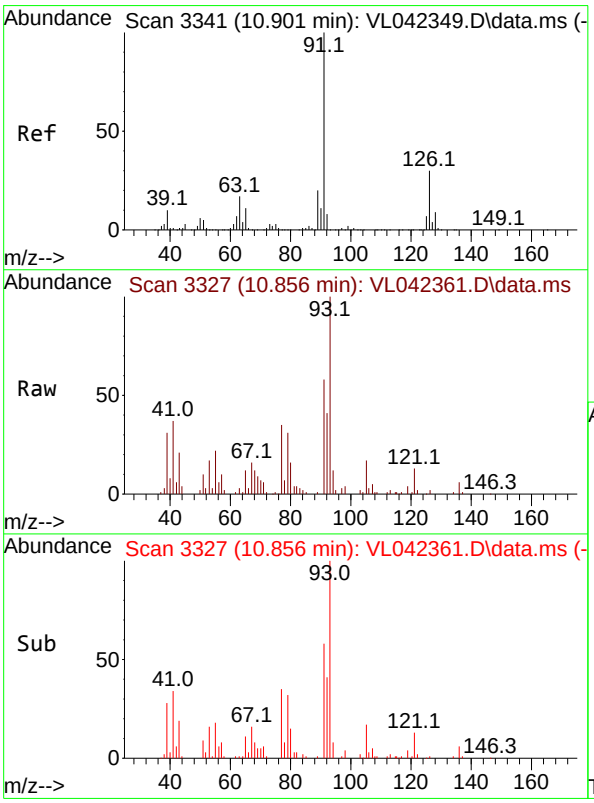
#70
n-Butylbenzene
Concen: 0.345 ppbv
RT: 12.287 min Scan# 3
Delta R.T. 0.004 min
Lab File: VL042361.D
Acq: 17 Apr 2025 17:17

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025

Tgt Ion: 91 Resp: 28567

Ion	Ratio	Lower	Upper
91	100		
92	35.2	44.2	66.4#
134	84.2	18.2	27.4#

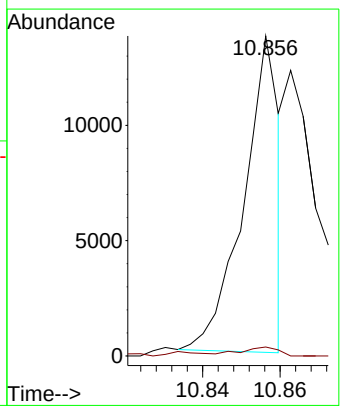


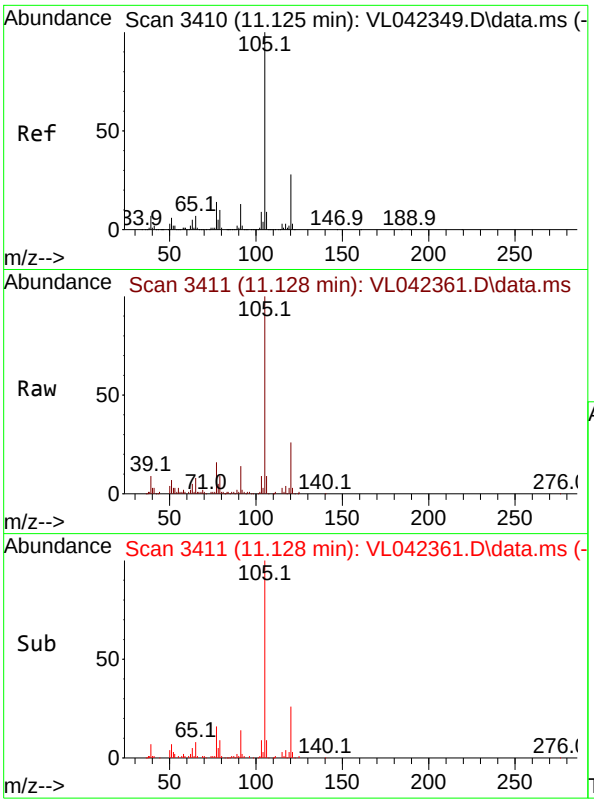


#71
2-Chlorotoluene
Concen: 0.156 ppbv
RT: 10.856 min Scan# 3327
Delta R.T. -0.045 min
Lab File: VL042361.D
Acq: 17 Apr 2025 17:17

Tgt Ion: 91 Resp: 8756

Ion	Ratio	Lower	Upper
91	100		
126	35.4	11.4	45.4



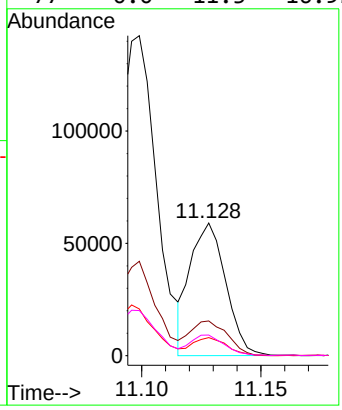


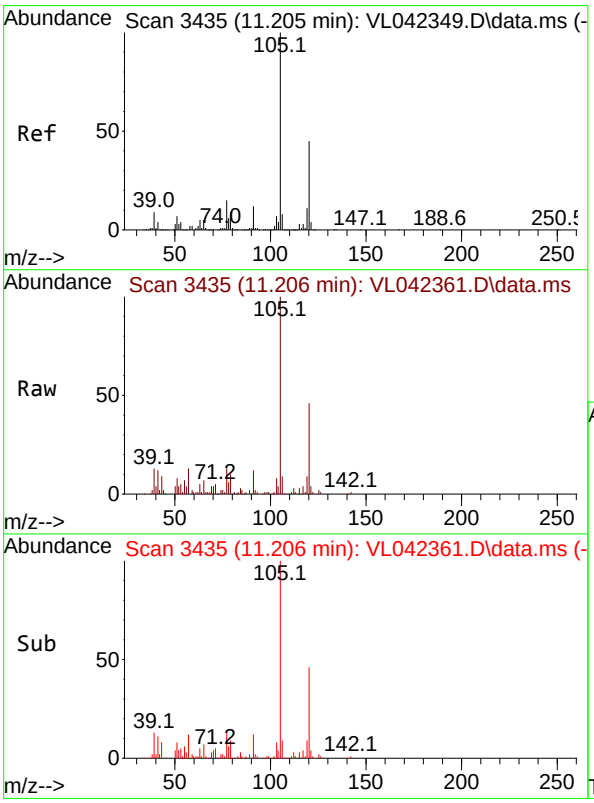
#72
4-Ethyltoluene
Concen: 1.028 ppbv
RT: 11.128 min Scan# 34
Delta R.T. 0.004 min
Lab File: VL042361.D
Acq: 17 Apr 2025 17:17

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025

Tgt Ion:105 Resp: 61306

Ion	Ratio	Lower	Upper
105	100		
120	0.0	23.2	34.8#
91	0.0	10.4	15.6#
77	0.0	11.3	16.9#

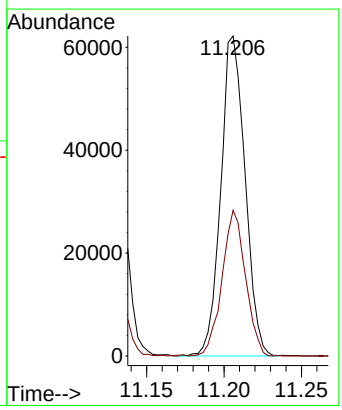


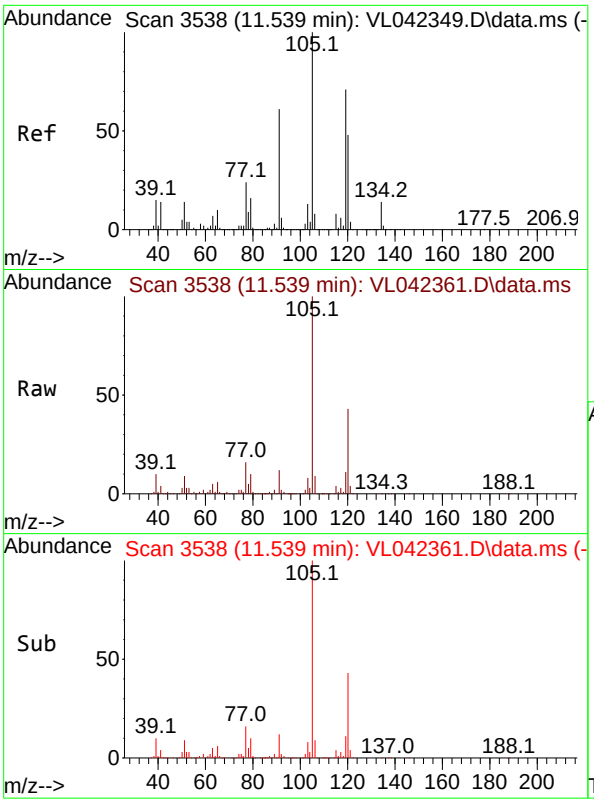


#73
1,3,5-Trimethylbenzene
Concen: 1.287 ppbv
RT: 11.206 min Scan# 3435
Delta R.T. 0.000 min
Lab File: VL042361.D
Acq: 17 Apr 2025 17:17

Tgt Ion:105 Resp: 67763

Ion	Ratio	Lower	Upper
105	100		
120	45.4	35.6	53.4



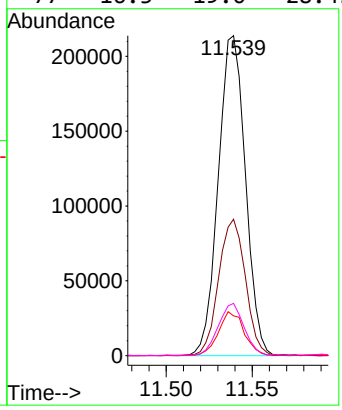


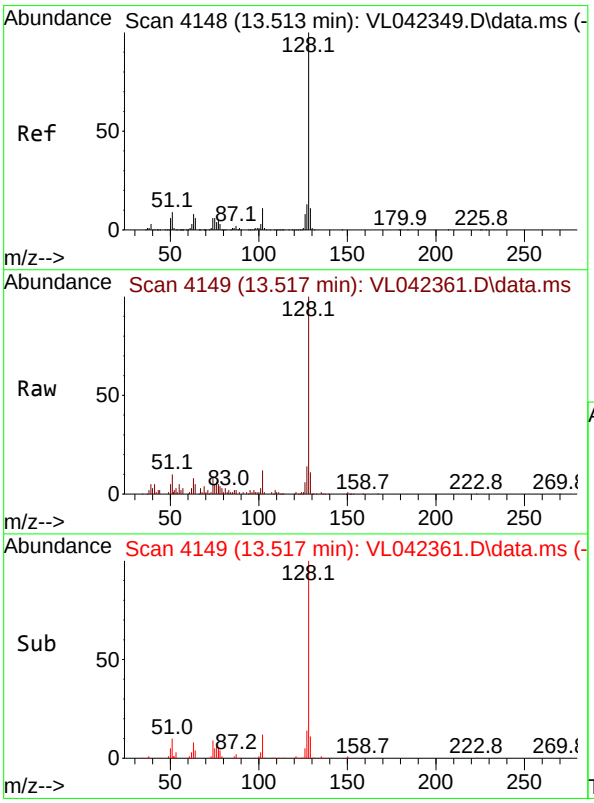
#74
1,2,4-Trimethylbenzene
Concen: 3.819 ppbv
RT: 11.539 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042361.D
Acq: 17 Apr 2025 17:17

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025

Tgt Ion:105 Resp: 234839

Ion	Ratio	Lower	Upper
105	100		
120	42.6	38.1	57.1
91	12.4	48.8	73.2#
77	16.3	19.0	28.4#

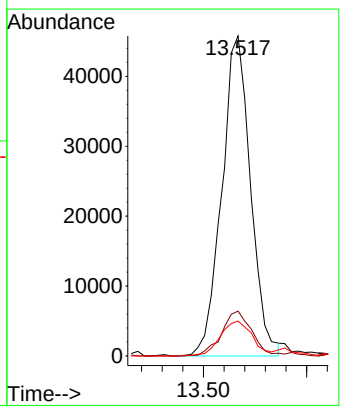


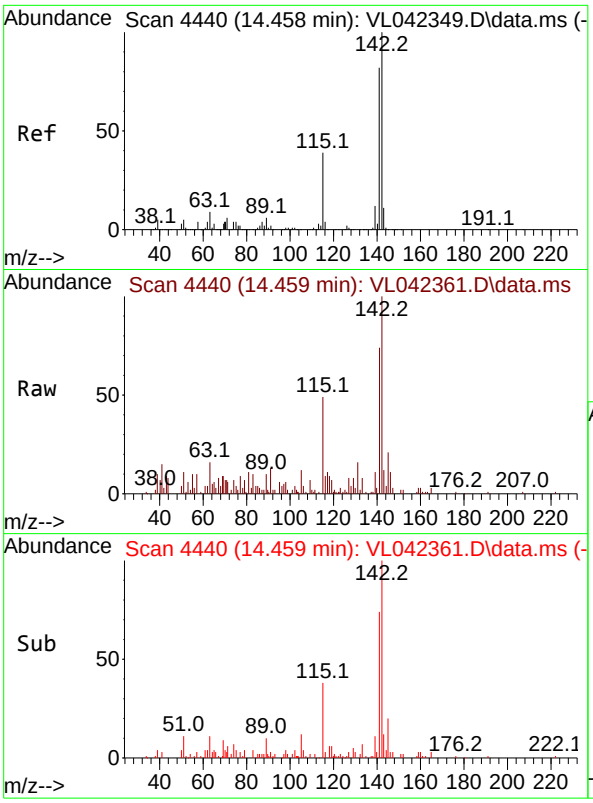


#79
Naphthalene
Concen: 0.601 ppbv
RT: 13.517 min Scan# 4149
Delta R.T. 0.004 min
Lab File: VL042361.D
Acq: 17 Apr 2025 17:17

Tgt Ion:128 Resp: 44224

Ion	Ratio	Lower	Upper
128	100		
127	14.0	10.6	15.8
129	10.9	8.6	12.8



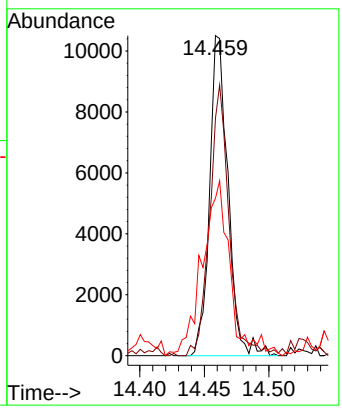


#80
Naphthalene,2-methyl-
Concen: 0.248 ppbv
RT: 14.459 min Scan# 44
Delta R.T. 0.000 min
Lab File: VL042361.D
Acq: 17 Apr 2025 17:17

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025

Tgt Ion:142 Resp: 10408

Ion	Ratio	Lower	Upper
142	100		
141	89.8	66.8	100.2
115	82.6	33.4	50.2#



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042362.D
Acq On : 17 Apr 2025 17:51
Operator : SY/MD
Sample : Q1668-01DUP
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025DUP

Quant Time: Apr 18 02:39:37 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.787	49	122226	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.959	114	344143	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.881	117	303859	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.377	95	251359	10.067	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 100.700%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.499	85	9771	0.452	ppbv		92
3) Chlorodifluoromethane	1.476	51	10339	0.503	ppbv	#	90
4) Chloromethane	1.534	50	4015	0.470	ppbv		99
7) Chloroethane	1.703	64	144	0.043	ppbv	#	44
9) Propene	1.486	41	5149	0.550	ppbv		92
10) Heptane	4.981	43	50613	1.924	ppbv		99
11) Trichlorofluoromethane	1.877	101	4655	0.227	ppbv		97
12) 1,1,2-Trichlorotrifluo...	2.140	101	1142	0.068	ppbv	#	80
13) Ethanol	1.722	45	362837	243.762	ppbv		75
15) Acetone	1.835	43	104810	5.238	ppbv		94
16) 1,3-Butadiene	1.599	39	4703	0.491	ppbv	#	36
17) tert-Butyl alcohol	2.046	59	3734	0.151	ppbv	#	71
19) Isopropyl Alcohol	1.887	45	25172	2.265	ppbv	#	6
20) Methylene Chloride	2.062	84	21791	2.781	ppbv		98
21) Allyl Chloride	2.094	41	433	0.031	ppbv	#	21
23) Vinyl Acetate	2.473	43	31029	3.831	ppbv	#	54
25) Ethyl Acetate	2.826	43	40663	0.824	ppbv	#	80
26) Hexane	2.826	57	56908	2.850	ppbv	#	34
27) Carbon Disulfide	2.149	76	12830	0.600	ppbv	#	1
30) Cyclohexane	3.861	84	54578	3.382	ppbv		100
34) 2-Butanone	2.560	43	18869	0.693	ppbv		96
35) Carbon Tetrachloride	3.764	117	2082	0.067	ppbv	#	47
36) Benzene	3.654	78	19730	0.532	ppbv	#	91
39) 1,2-Dichloropropane	3.959	63	93126	6.732	ppbv	#	23
41) Tetrahydrofuran	3.068	42	892	0.056	ppbv	#	61
44) 2,2,4-Trimethylpentane	4.645	57	5625	0.088	ppbv	#	42
50) 4-Methyl-2-Pentanone	5.755	43	876965	19.389	ppbv		99
52) Tetrachloroethene	8.224	164	512	0.036	ppbv	#	47
53) Toluene	6.936	91	69352	1.557	ppbv		99
58) Ethyl Benzene	9.354	91	57094	0.948	ppbv		99
59) m/p-Xylene	9.532	91	448533	9.248	ppbv		100
60) o-Xylene	9.966	91	96845	1.983	ppbv		100
61) Styrene	9.872	104	37632	1.614	ppbv		98
62) Isopropylbenzene	10.539	105	10762	0.150	ppbv		97
64) n-propylbenzene	10.989	120	9965	0.553	ppbv		95
65) tert-Butylbenzene	11.536	119	25638	0.389	ppbv	#	68
66) Benzyl Chloride	11.539	91	29513	4.075	ppbv	#	70
67) sec-Butylbenzene	11.769	105	8403	0.092	ppbv	#	76
69) p-Isopropyltoluene	11.927	119	12725	0.160	ppbv		93
70) n-Butylbenzene	12.283	91	29311	0.353	ppbv	#	44
72) 4-Ethyltoluene	11.124	105	64934	1.088	ppbv	#	56
73) 1,3,5-Trimethylbenzene	11.205	105	70431	1.336	ppbv		97
74) 1,2,4-Trimethylbenzene	11.539	105	242011	3.931	ppbv	#	61

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042362.D
Acq On : 17 Apr 2025 17:51
Operator : SY/MD
Sample : Q1668-01DUP
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025DUP

Quant Time: Apr 18 02:39:37 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
79) Naphthalene	13.513	128	46070	0.626	ppbv	#	96
80) Naphthalene,2-methyl-	14.591	142	8081	0.193	ppbv		97

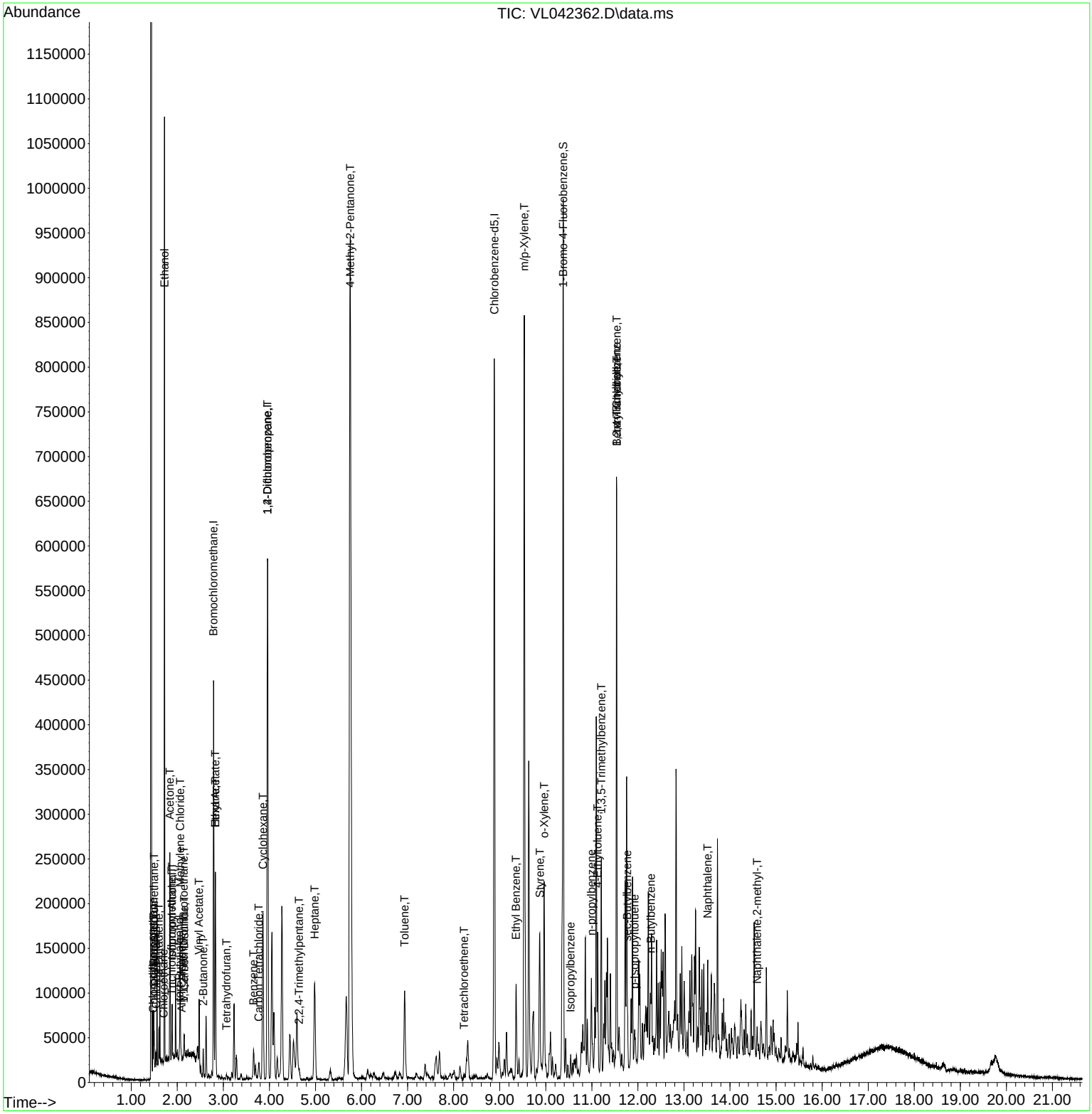
(#) = qualifier out of range (m) = manual integration (+) = signals summed

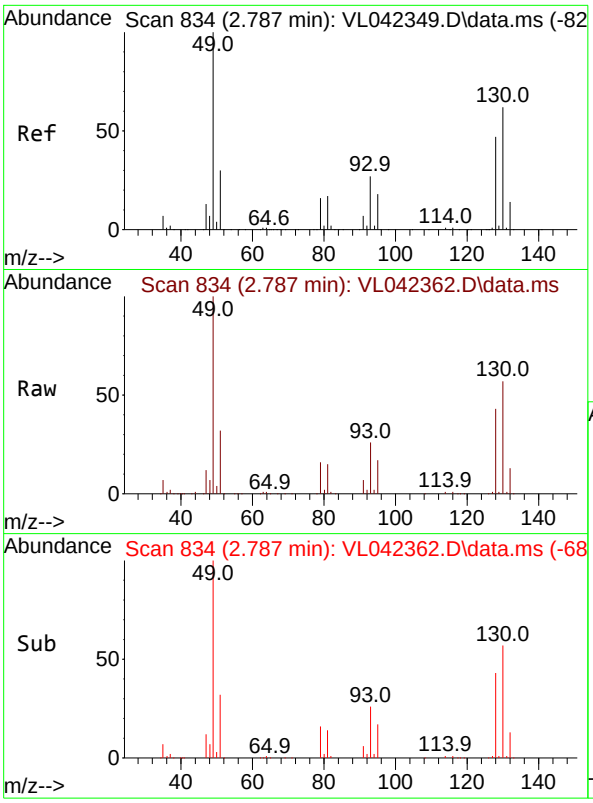
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042362.D
Acq On : 17 Apr 2025 17:51
Operator : SY/MD
Sample : Q1668-01DUP
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025DUP

Quant Time: Apr 18 02:39:37 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration



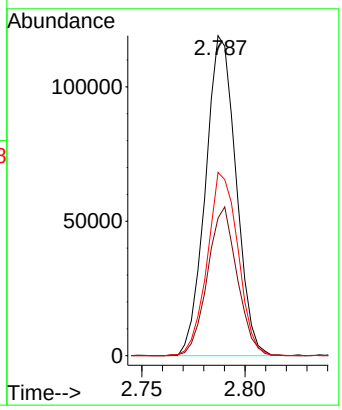


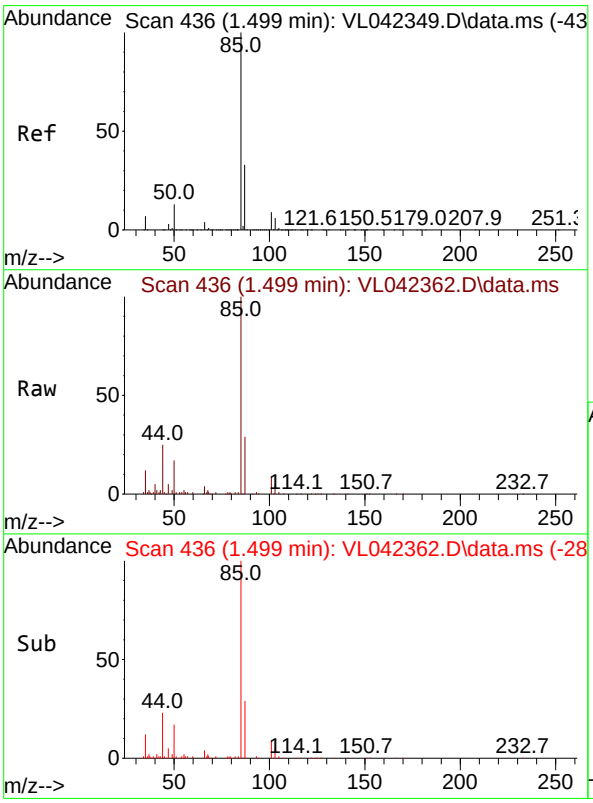
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL042362.D
Acq: 17 Apr 2025 17:51

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025DUP

Tgt Ion: 49 Resp: 122226

Ion	Ratio	Lower	Upper
49	100		
128	45.2	22.8	68.4
130	57.7	29.3	88.0

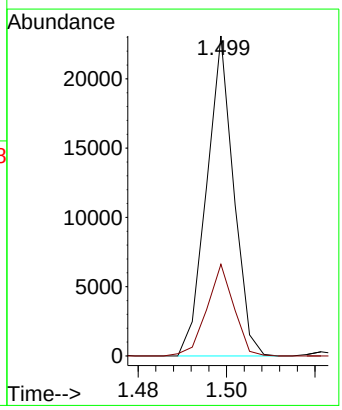


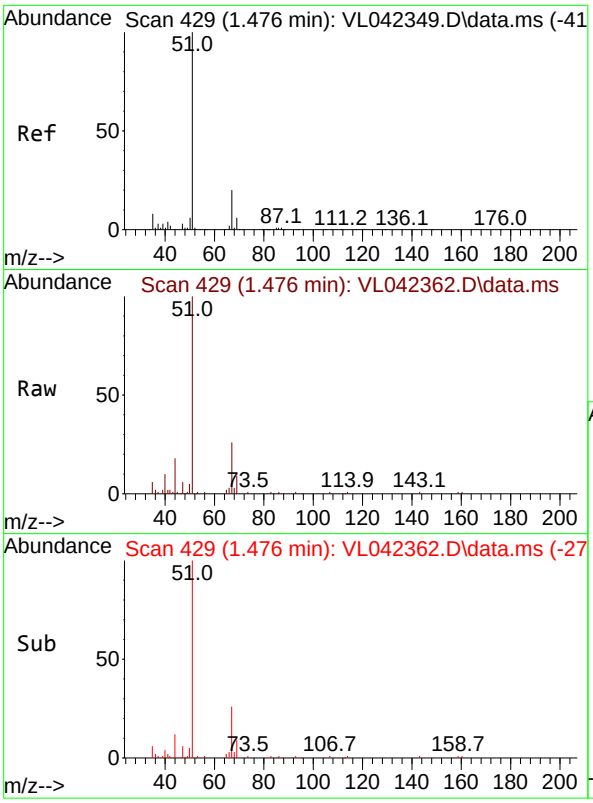


#2
Dichlorodifluoromethane
Concen: 0.452 ppbv
RT: 1.499 min Scan# 436
Delta R.T. -0.000 min
Lab File: VL042362.D
Acq: 17 Apr 2025 17:51

Tgt Ion: 85 Resp: 9771

Ion	Ratio	Lower	Upper
85	100		
87	28.7	26.6	39.8



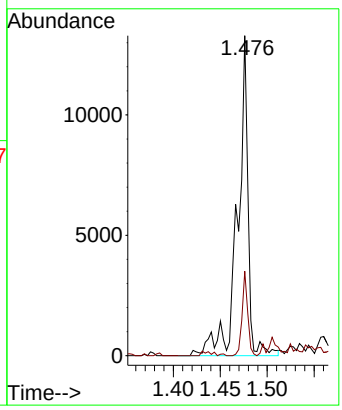


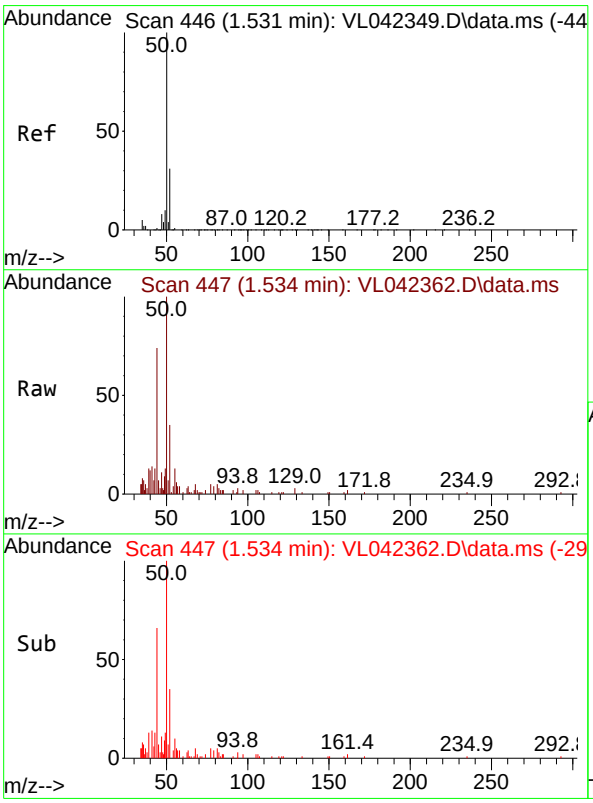
#3
Chlorodifluoromethane
Concen: 0.503 ppbv
RT: 1.476 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042362.D
Acq: 17 Apr 2025 17:51

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025DUP

Tgt Ion: 51 Resp: 10339

Ion	Ratio	Lower	Upper
51	100		
67	15.6	16.2	24.4#

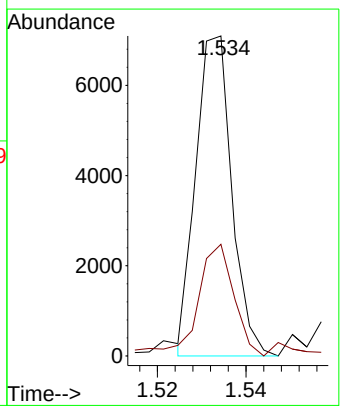


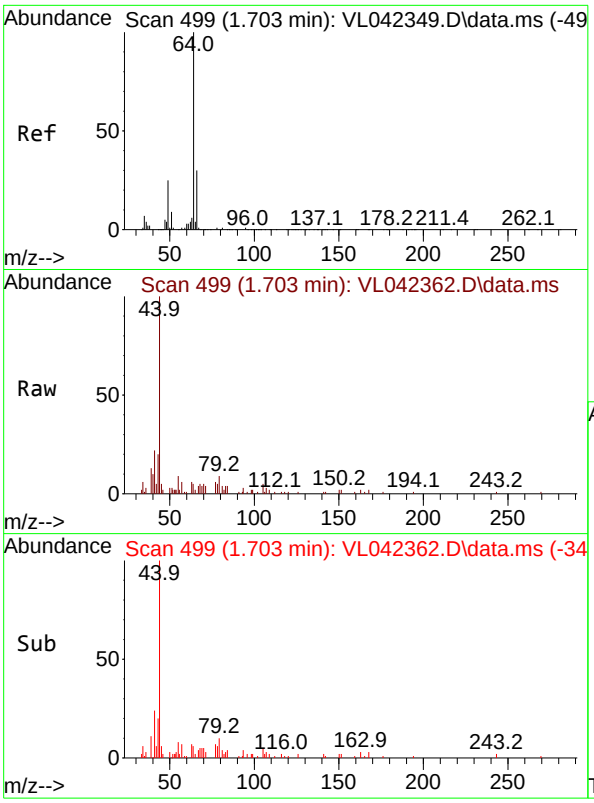


#4
Chloromethane
Concen: 0.470 ppbv
RT: 1.534 min Scan# 447
Delta R.T. 0.003 min
Lab File: VL042362.D
Acq: 17 Apr 2025 17:51

Tgt Ion: 50 Resp: 4015

Ion	Ratio	Lower	Upper
50	100		
52	31.6	24.7	37.1



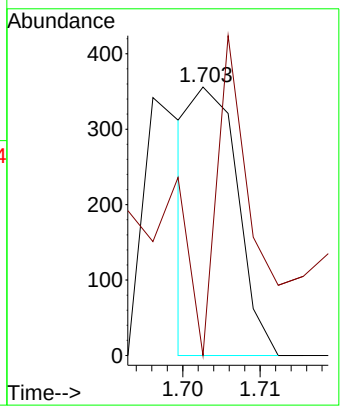


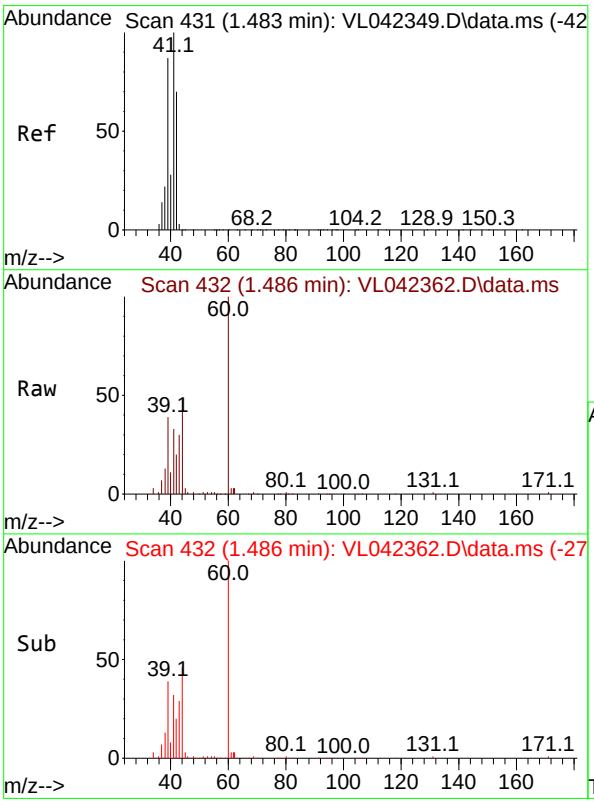
#7
Chloroethane
Concen: 0.043 ppbv
RT: 1.703 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042362.D
Acq: 17 Apr 2025 17:51

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025DUP

Tgt Ion: 64 Resp: 144

Ion	Ratio	Lower	Upper
64	100		
66	0.0	24.6	37.0#

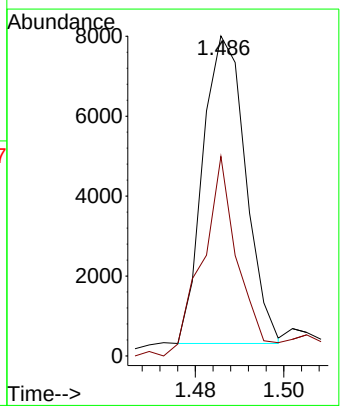


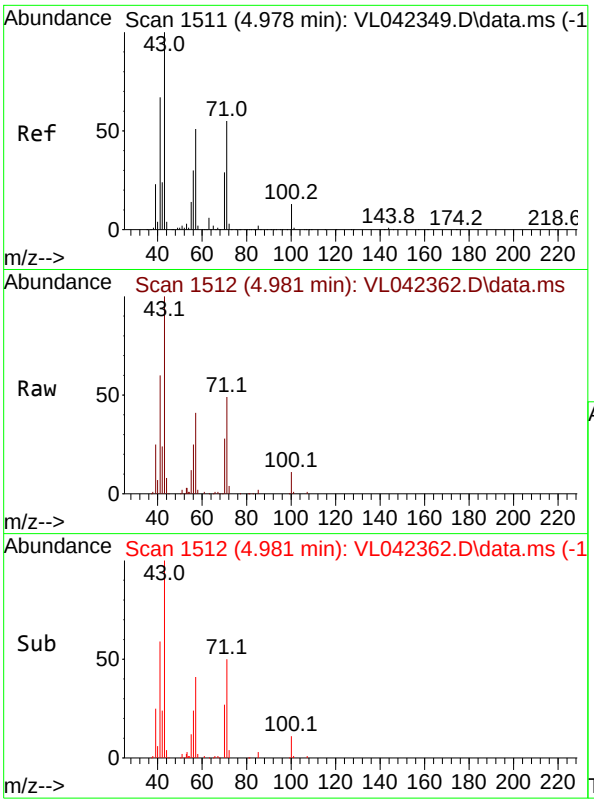


#9
Propene
Concen: 0.550 ppbv
RT: 1.486 min Scan# 432
Delta R.T. 0.003 min
Lab File: VL042362.D
Acq: 17 Apr 2025 17:51

Tgt Ion: 41 Resp: 5149

Ion	Ratio	Lower	Upper
41	100		
42	63.7	56.2	84.4



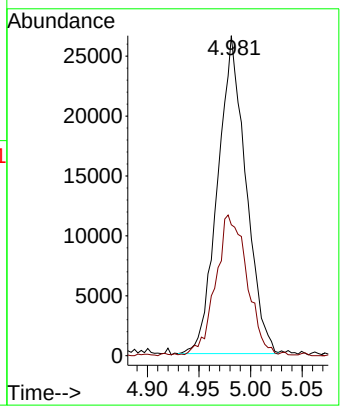


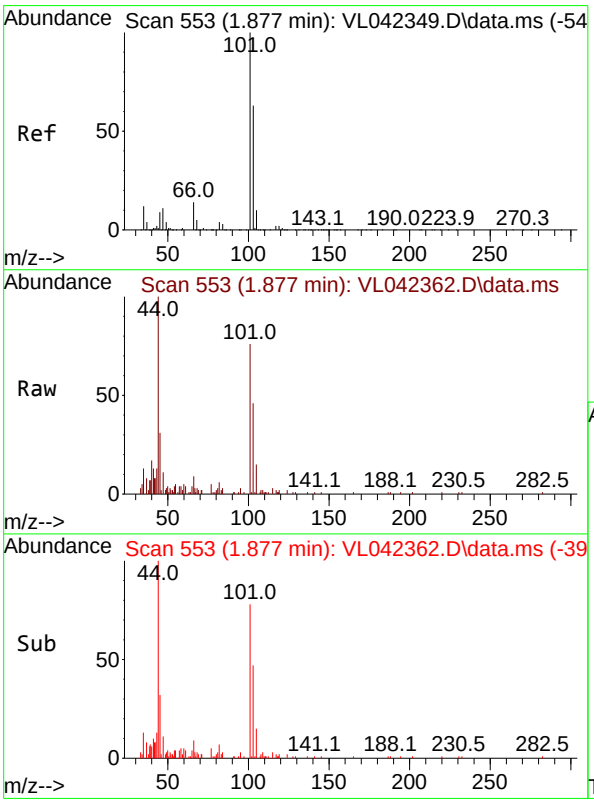
#10
Heptane
Concen: 1.924 ppbv
RT: 4.981 min Scan# 1
Delta R.T. 0.003 min
Lab File: VL042362.D
Acq: 17 Apr 2025 17:51

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025DUP

Tgt Ion: 43 Resp: 50613

Ion	Ratio	Lower	Upper
43	100		
57	50.3	39.9	59.9

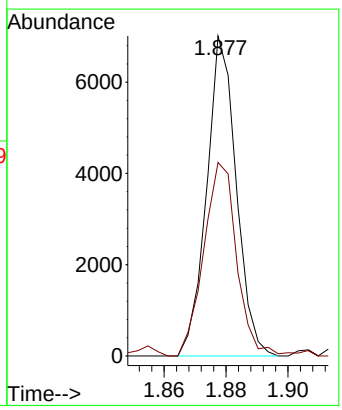


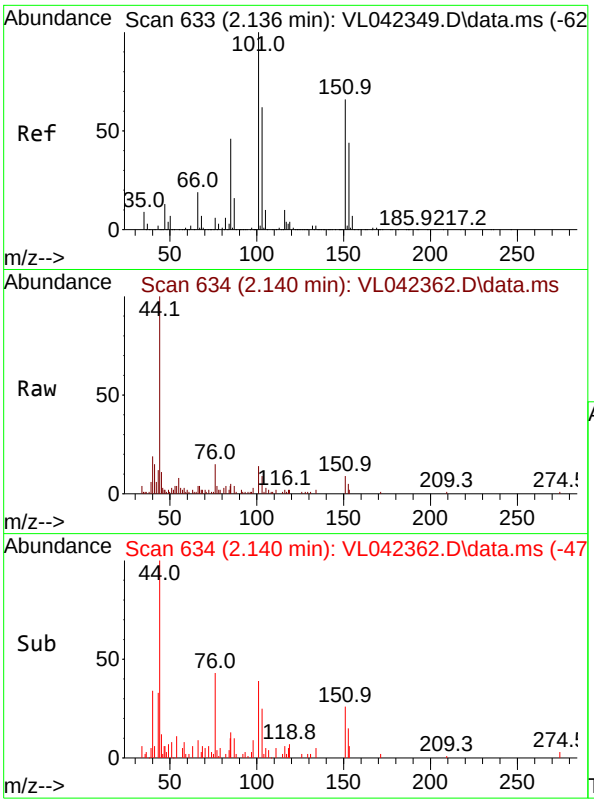


#11
Trichlorofluoromethane
Concen: 0.227 ppbv
RT: 1.877 min Scan# 553
Delta R.T. -0.000 min
Lab File: VL042362.D
Acq: 17 Apr 2025 17:51

Tgt Ion:101 Resp: 4655

Ion	Ratio	Lower	Upper
101	100		
103	60.4	50.1	75.1



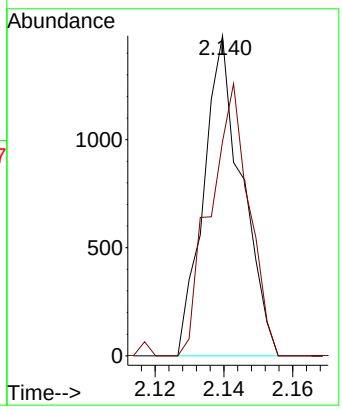


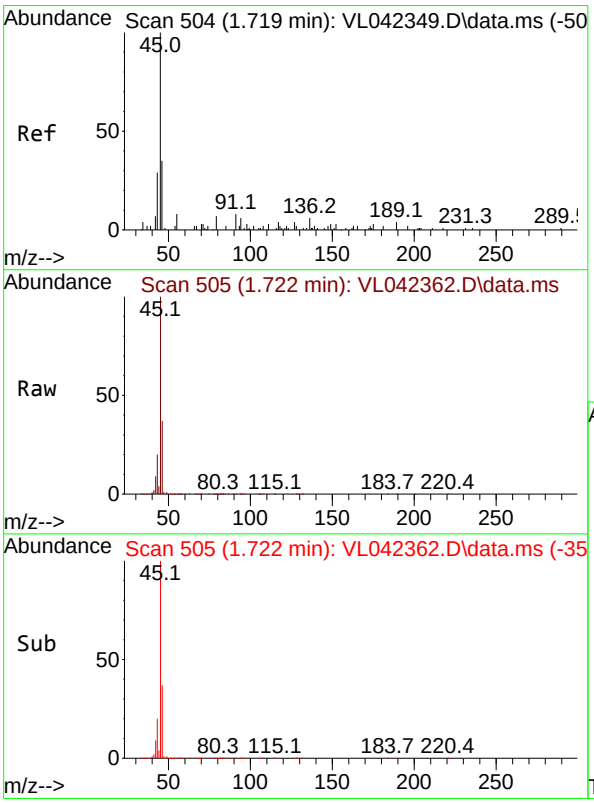
#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.068 ppbv
RT: 2.140 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL042362.D
Acq: 17 Apr 2025 17:51

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025DUP

Tgt Ion:101 Resp: 1142

Ion	Ratio	Lower	Upper
101	100		
151	87.8	57.0	85.6#

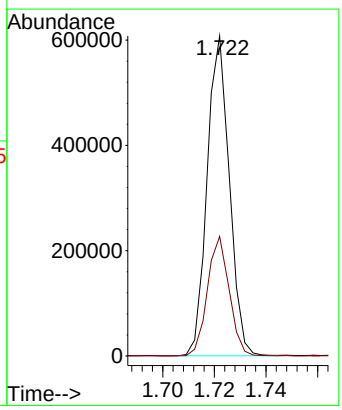


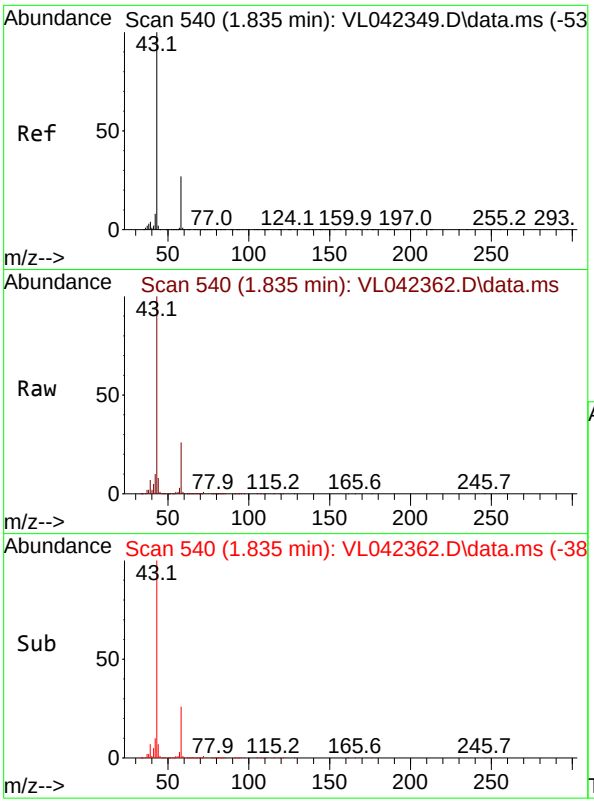


#13
Ethanol
Concen: 243.762 ppbv
RT: 1.722 min Scan# 505
Delta R.T. 0.003 min
Lab File: VL042362.D
Acq: 17 Apr 2025 17:51

Tgt Ion: 45 Resp: 362837

Ion	Ratio	Lower	Upper
45	100		
46	36.8	21.9	87.7



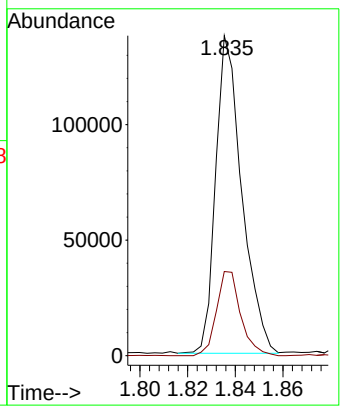


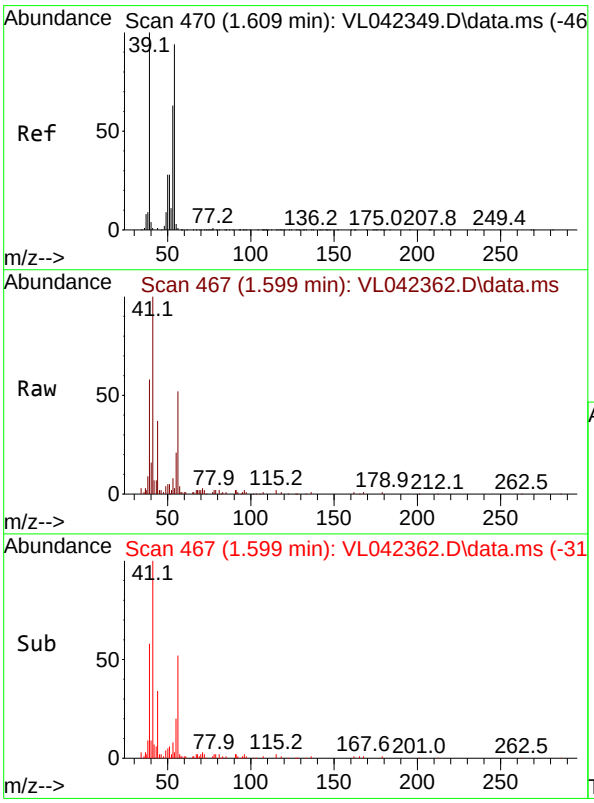
#15
Acetone
Concen: 5.238 ppbv
RT: 1.835 min Scan# 54
Delta R.T. -0.000 min
Lab File: VL042362.D
Acq: 17 Apr 2025 17:51

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025DUP

Tgt Ion: 43 Resp: 104810

Ion	Ratio	Lower	Upper
43	100		
58	24.9	22.4	33.6

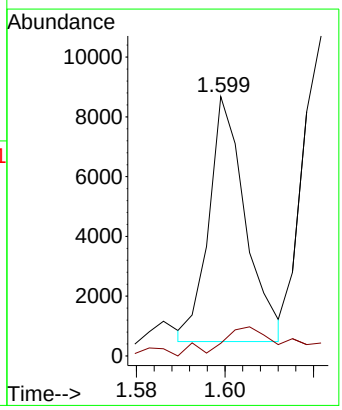


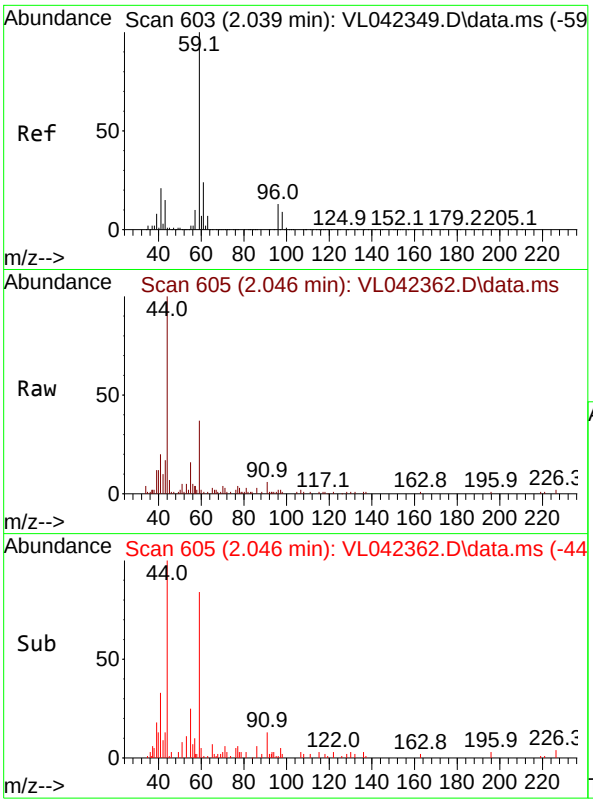


#16
1,3-Butadiene
Concen: 0.491 ppbv
RT: 1.599 min Scan# 467
Delta R.T. -0.010 min
Lab File: VL042362.D
Acq: 17 Apr 2025 17:51

Tgt Ion: 39 Resp: 4703

Ion	Ratio	Lower	Upper
39	100		
54	24.6	64.9	97.3#



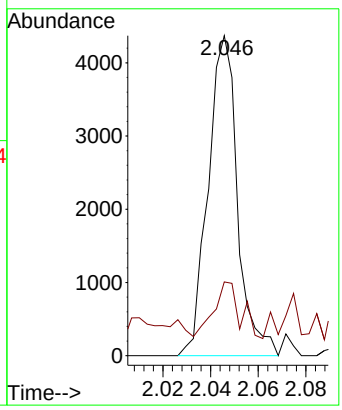


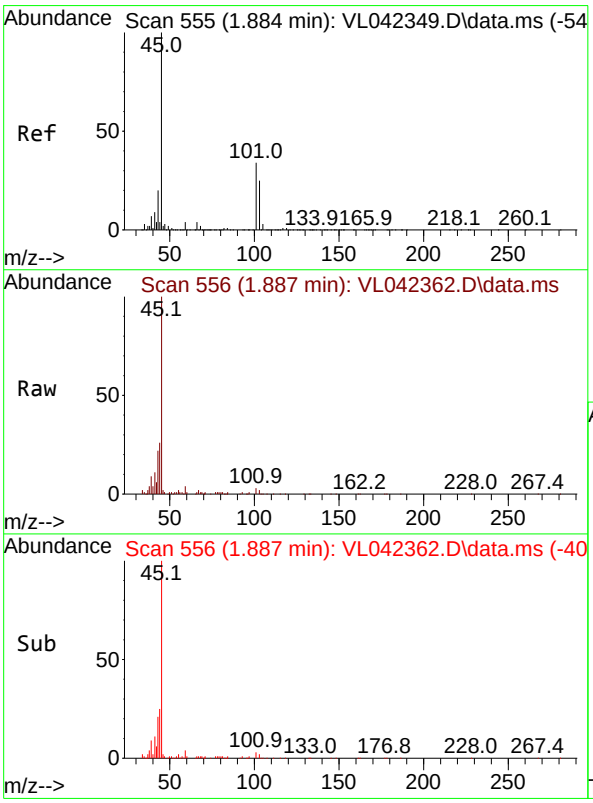
#17
tert-Butyl alcohol
Concen: 0.151 ppbv
RT: 2.046 min Scan# 6
Delta R.T. 0.006 min
Lab File: VL042362.D
Acq: 17 Apr 2025 17:51

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025DUP

Tgt Ion: 59 Resp: 3734

Ion	Ratio	Lower	Upper
59	100		
57	0.0	8.7	13.1#

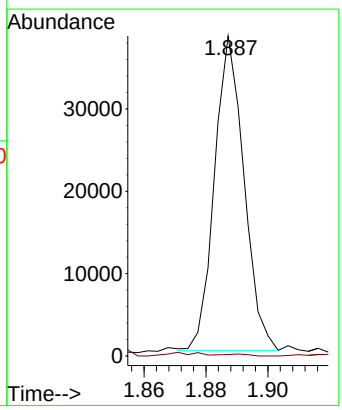


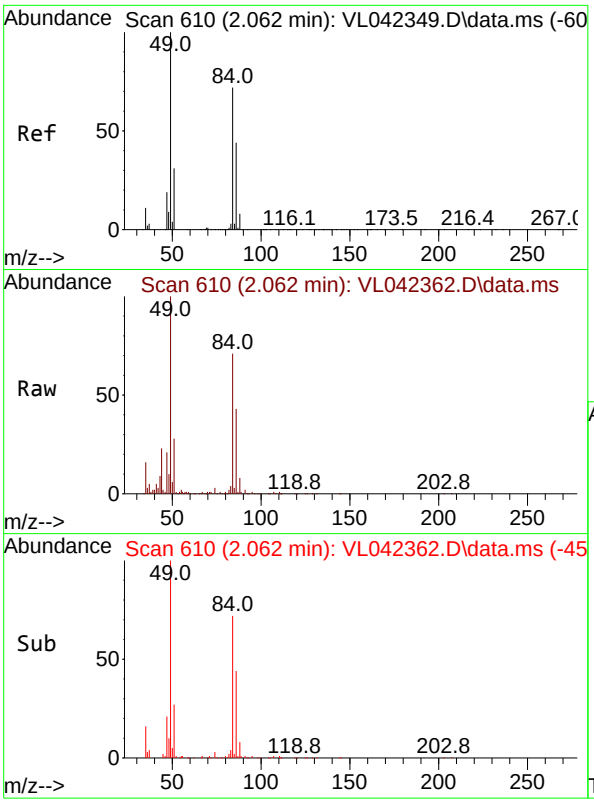


#19
Isopropyl Alcohol
Concen: 2.265 ppbv
RT: 1.887 min Scan# 556
Delta R.T. 0.003 min
Lab File: VL042362.D
Acq: 17 Apr 2025 17:51

Tgt Ion: 45 Resp: 25172

Ion	Ratio	Lower	Upper
45	100		
58	103.6	34.5	51.7#



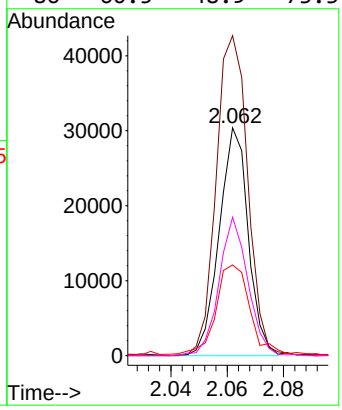


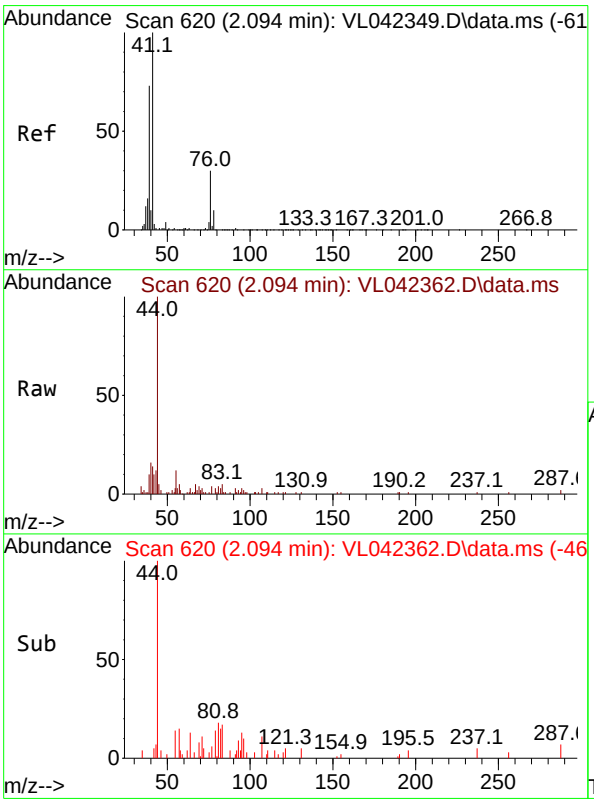
#20
Methylene Chloride
Concen: 2.781 ppbv
RT: 2.062 min Scan# 61
Delta R.T. -0.000 min
Lab File: VL042362.D
Acq: 17 Apr 2025 17:51

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025DUP

Tgt Ion: 84 Resp: 21791

Ion	Ratio	Lower	Upper
84	100		
49	140.1	111.6	167.4
51	39.0	35.1	52.7
86	60.5	48.9	73.3

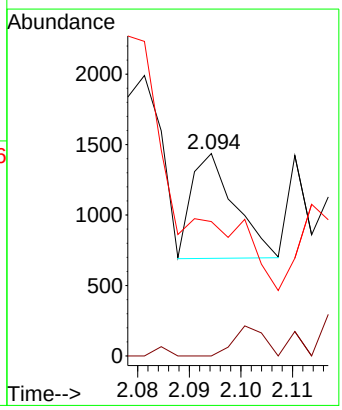


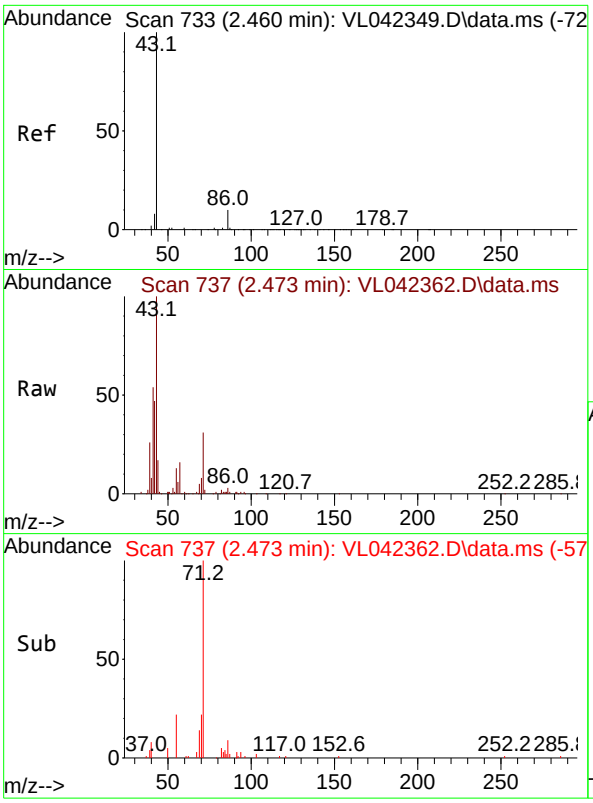


#21
Allyl Chloride
Concen: 0.031 ppbv
RT: 2.094 min Scan# 620
Delta R.T. -0.000 min
Lab File: VL042362.D
Acq: 17 Apr 2025 17:51

Tgt Ion: 41 Resp: 433

Ion	Ratio	Lower	Upper
41	100		
76	0.0	24.8	37.2#
39	0.0	60.6	90.8#



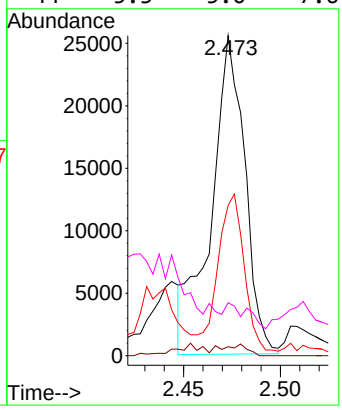


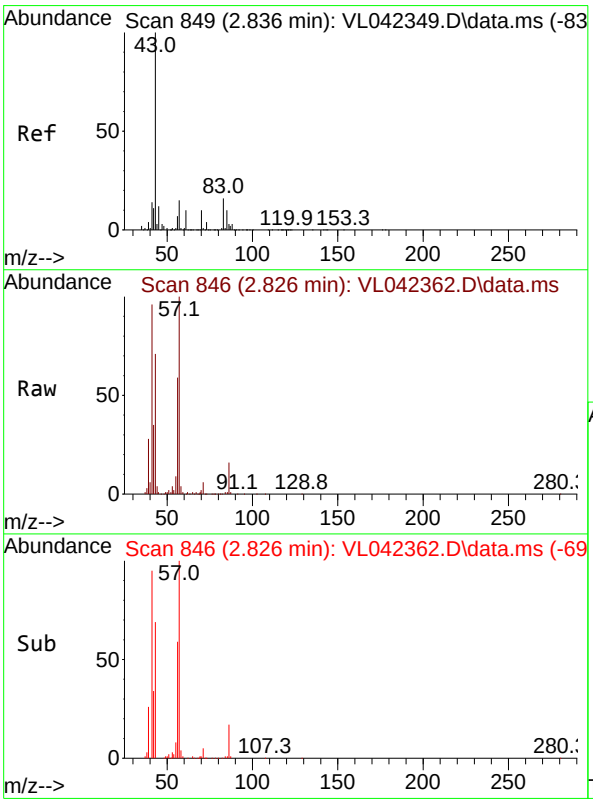
#23
Vinyl Acetate
Concen: 3.831 ppbv
RT: 2.473 min Scan# 7
Delta R.T. 0.013 min
Lab File: VL042362.D
Acq: 17 Apr 2025 17:51

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025DUP

Tgt Ion: 43 Resp: 31029

Ion	Ratio	Lower	Upper
43	100		
86	2.9	6.5	9.7#
42	46.6	7.8	11.8#
44	5.3	5.0	7.6

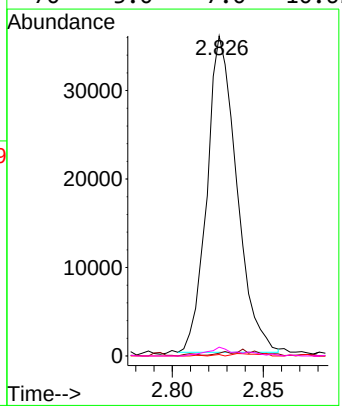


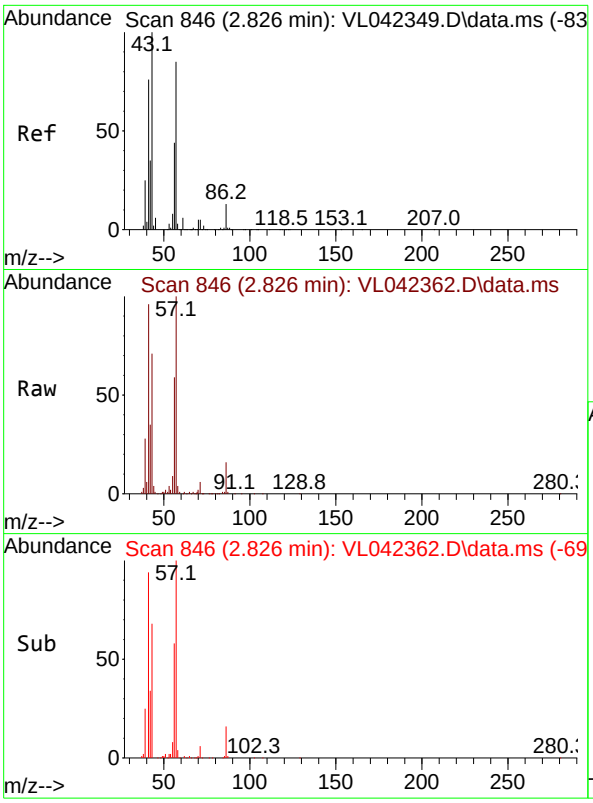


#25
Ethyl Acetate
Concen: 0.824 ppbv
RT: 2.826 min Scan# 846
Delta R.T. -0.010 min
Lab File: VL042362.D
Acq: 17 Apr 2025 17:51

Tgt Ion: 43 Resp: 40663

Ion	Ratio	Lower	Upper
43	100		
45	2.8	8.3	12.5#
61	1.1	7.3	10.9#
70	3.0	7.0	10.6#



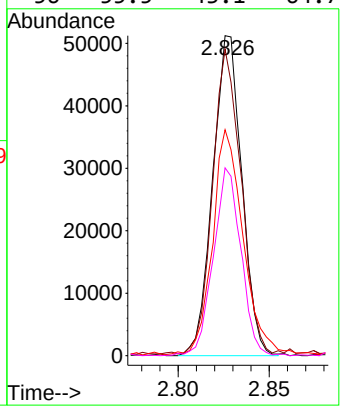


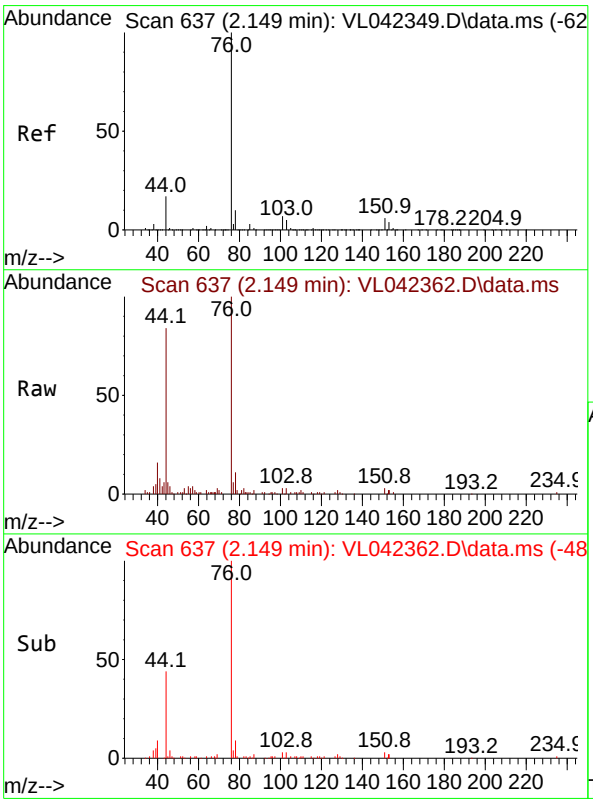
#26
Hexane
Concen: 2.850 ppbv
RT: 2.826 min Scan# 84
Delta R.T. -0.000 min
Lab File: VL042362.D
Acq: 17 Apr 2025 17:51

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025DUP

Tgt Ion: 57 Resp: 56908

Ion	Ratio	Lower	Upper
57	100		
41	95.3	77.9	116.9
43	75.0	208.4	312.6#
56	55.5	43.1	64.7

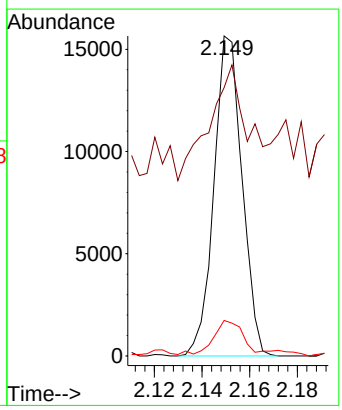


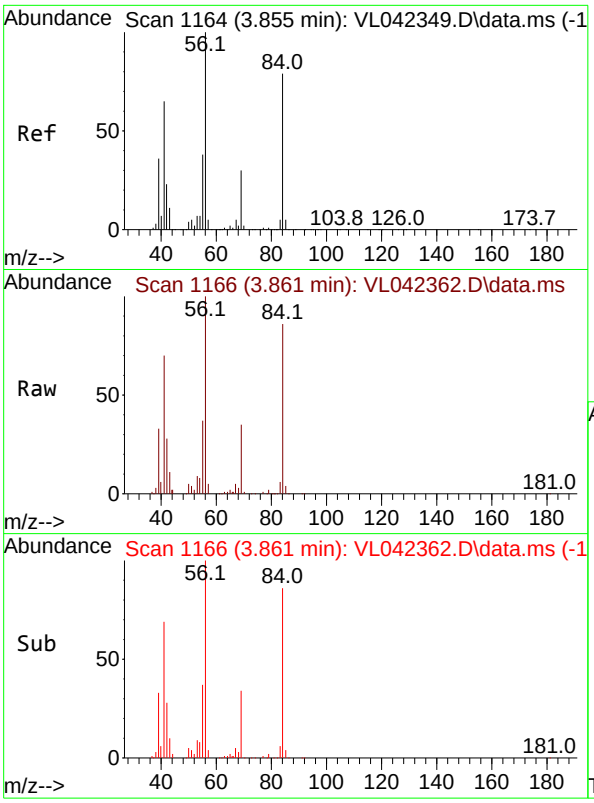


#27
Carbon Disulfide
Concen: 0.600 ppbv
RT: 2.149 min Scan# 637
Delta R.T. -0.000 min
Lab File: VL042362.D
Acq: 17 Apr 2025 17:51

Tgt Ion: 76 Resp: 12830

Ion	Ratio	Lower	Upper
76	100		
44	218.5	15.5	23.3#
78	15.2	9.3	13.9#



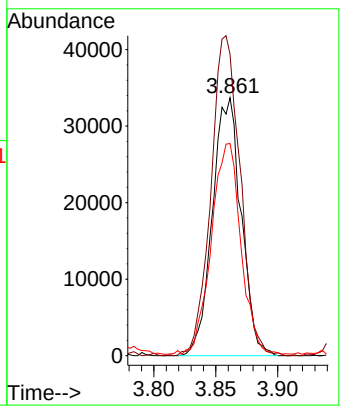


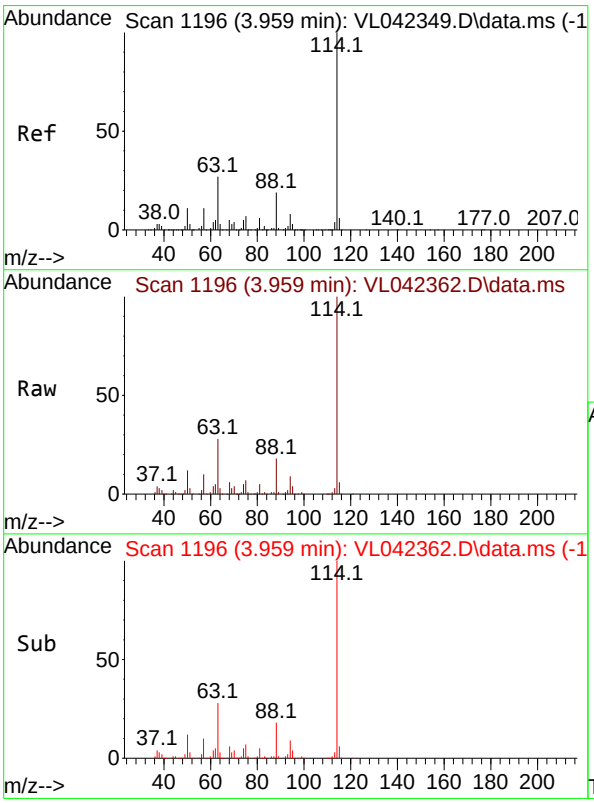
#30
Cyclohexane
Concen: 3.382 ppbv
RT: 3.861 min Scan# 11
Delta R.T. 0.006 min
Lab File: VL042362.D
Acq: 17 Apr 2025 17:51

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025DUP

Tgt Ion: 84 Resp: 54578

Ion	Ratio	Lower	Upper
84	100		
56	125.7	101.0	151.4
41	83.8	67.4	101.0

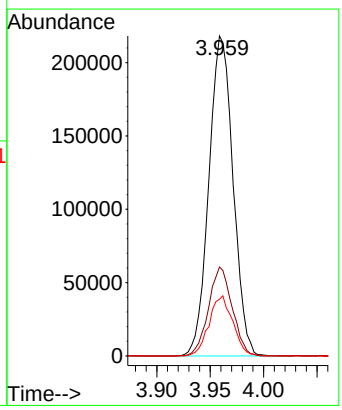


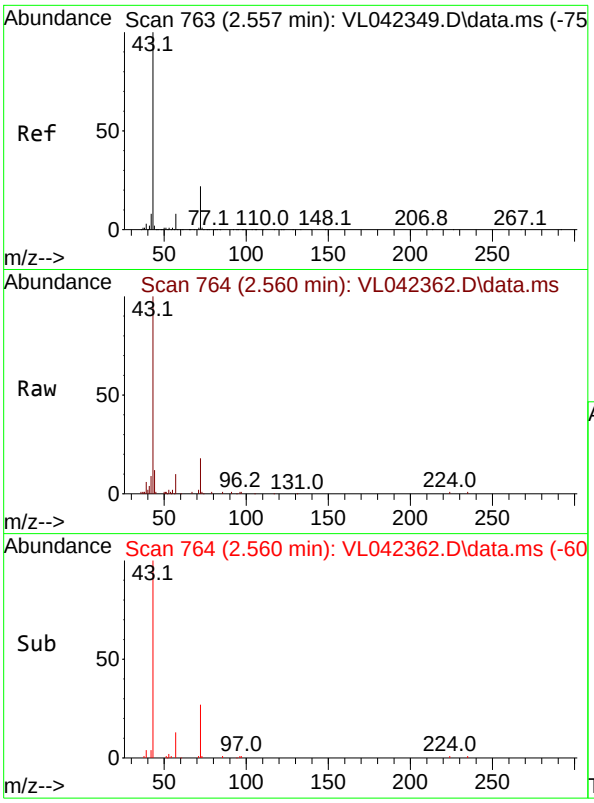


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.959 min Scan# 1196
Delta R.T. -0.000 min
Lab File: VL042362.D
Acq: 17 Apr 2025 17:51

Tgt Ion:114 Resp: 344143

Ion	Ratio	Lower	Upper
114	100		
63	27.2	21.8	32.6
88	18.4	15.5	23.3



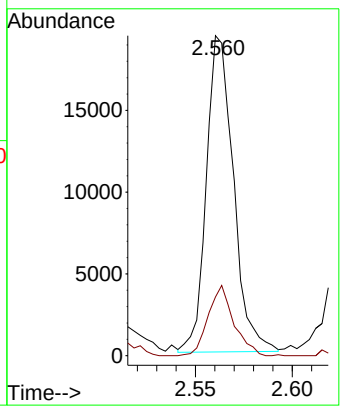


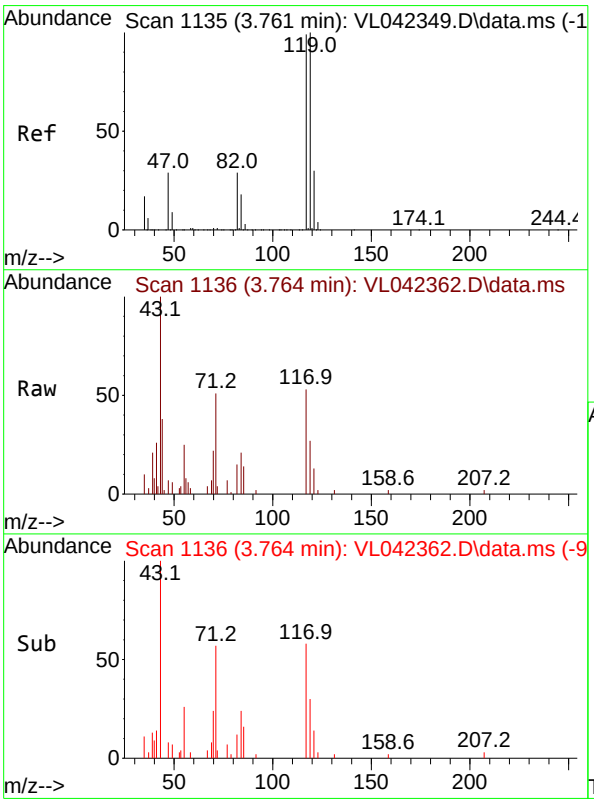
#34
2-Butanone
Concen: 0.693 ppbv
RT: 2.560 min Scan# 7
Delta R.T. 0.003 min
Lab File: VL042362.D
Acq: 17 Apr 2025 17:51

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025DUP

Tgt Ion: 43 Resp: 18869

Ion	Ratio	Lower	Upper
43	100		
72	21.0	18.2	27.2

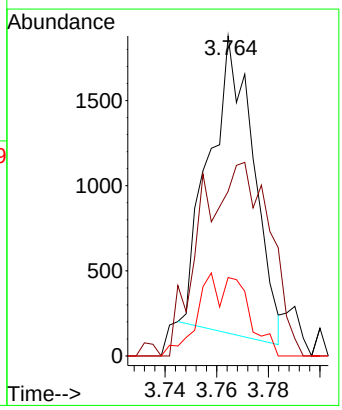


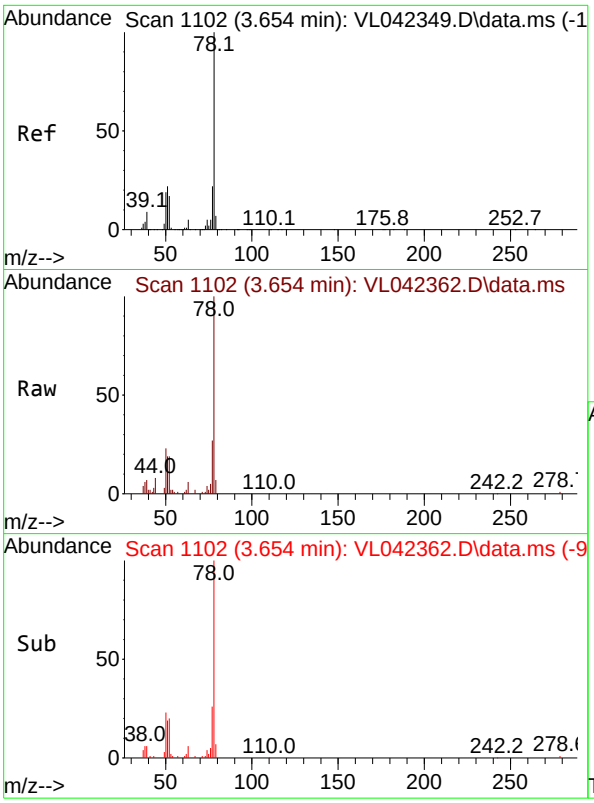


#35
Carbon Tetrachloride
Concen: 0.067 ppbv
RT: 3.764 min Scan# 1136
Delta R.T. 0.003 min
Lab File: VL042362.D
Acq: 17 Apr 2025 17:51

Tgt Ion:117 Resp: 2082

Ion	Ratio	Lower	Upper
117	100		
119	33.0	80.5	120.7#
121	27.5	24.2	36.2



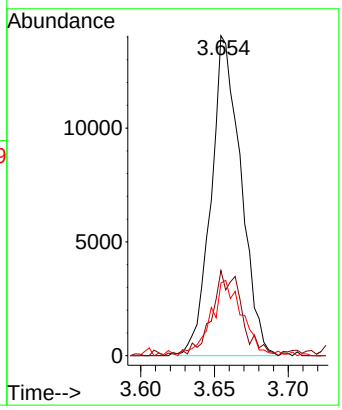


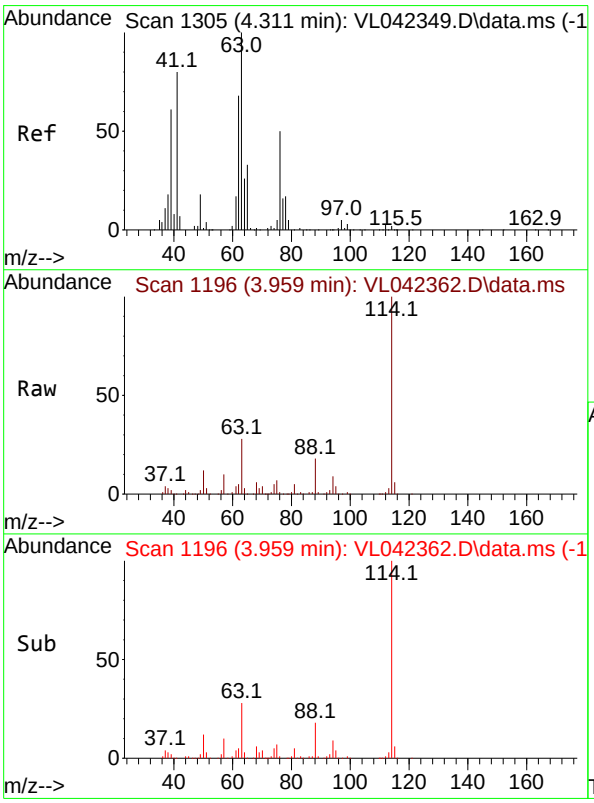
#36
Benzene
Concen: 0.532 ppbv
RT: 3.654 min Scan# 11
Delta R.T. -0.000 min
Lab File: VL042362.D
Acq: 17 Apr 2025 17:51

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025DUP

Tgt Ion: 78 Resp: 19730

Ion	Ratio	Lower	Upper
78	100		
77	26.6	17.4	26.0#
50	22.7	15.5	23.3

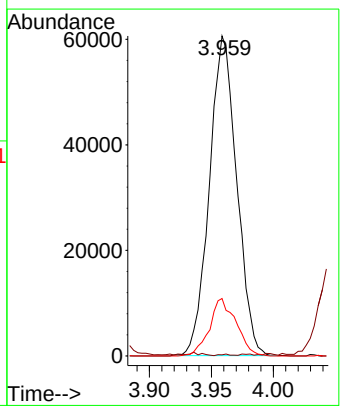


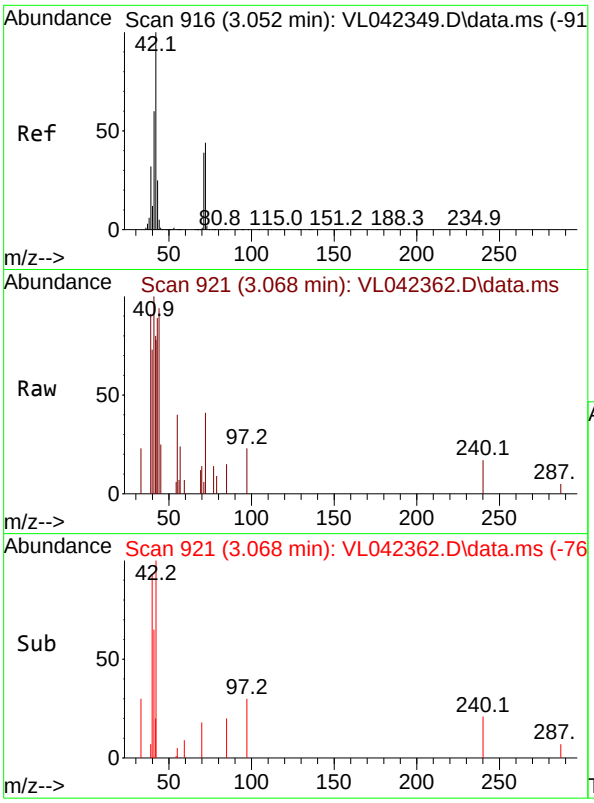


#39
1,2-Dichloropropane
Concen: 6.732 ppbv
RT: 3.959 min Scan# 1196
Delta R.T. -0.353 min
Lab File: VL042362.D
Acq: 17 Apr 2025 17:51

Tgt Ion: 63 Resp: 93126

Ion	Ratio	Lower	Upper
63	100		
41	0.1	64.2	96.2#
62	18.0	54.3	81.5#



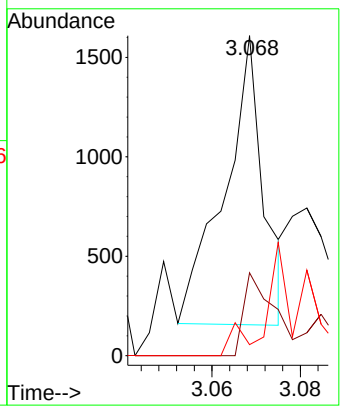


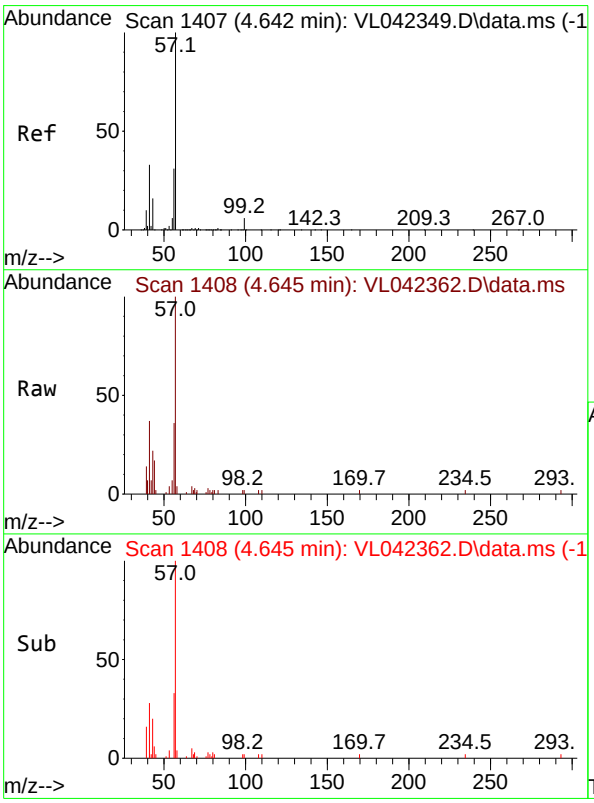
#41
Tetrahydrofuran
Concen: 0.056 ppbv
RT: 3.068 min Scan# 9
Delta R.T. 0.016 min
Lab File: VL042362.D
Acq: 17 Apr 2025 17:51

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025DUP

Tgt Ion: 42 Resp: 892

Ion	Ratio	Lower	Upper
42	100		
72	31.4	32.3	48.5#
71	0.0	31.4	47.2#

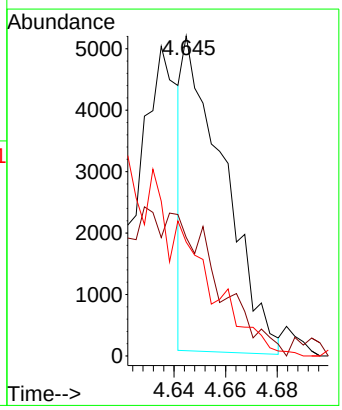


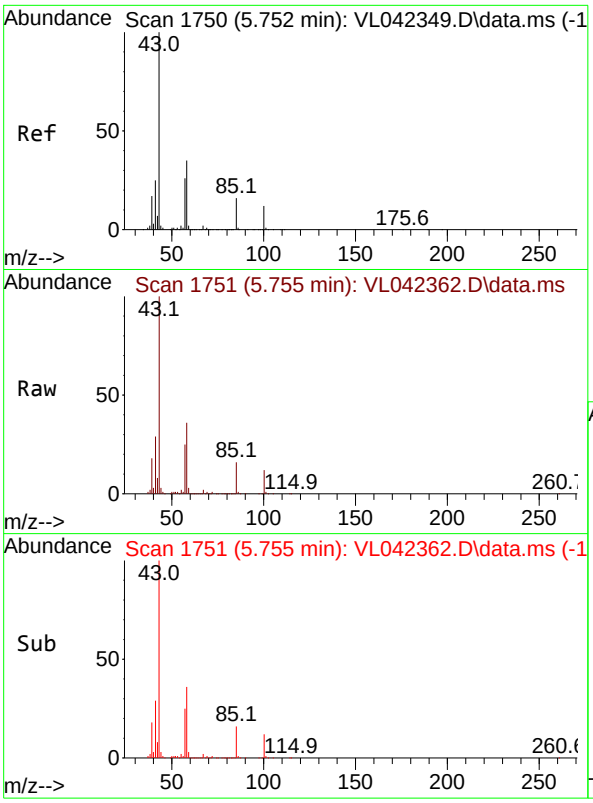


#44
2,2,4-Trimethylpentane
Concen: 0.088 ppbv
RT: 4.645 min Scan# 1408
Delta R.T. 0.003 min
Lab File: VL042362.D
Acq: 17 Apr 2025 17:51

Tgt Ion: 57 Resp: 5625

Ion	Ratio	Lower	Upper
57	100		
41	0.0	27.2	40.8#
56	0.0	25.7	38.5#



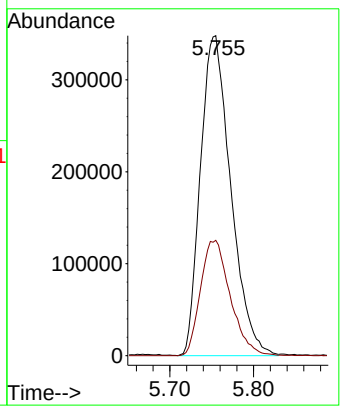


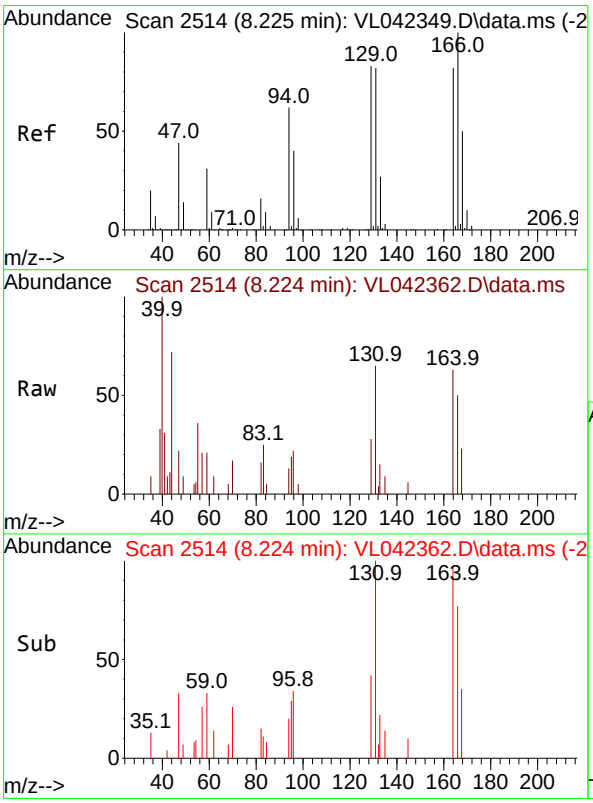
#50
4-Methyl-2-Pentanone
Concen: 19.389 ppbv
RT: 5.755 min Scan# 1
Delta R.T. 0.003 min
Lab File: VL042362.D
Acq: 17 Apr 2025 17:51

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025DUP

Tgt Ion: 43 Resp: 876965

Ion	Ratio	Lower	Upper
43	100		
58	35.4	28.6	43.0

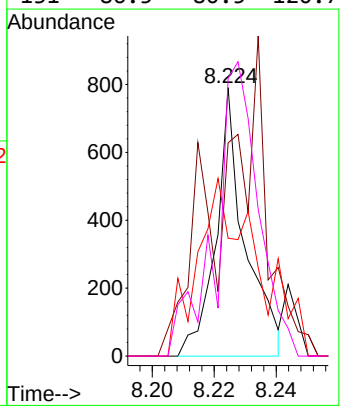


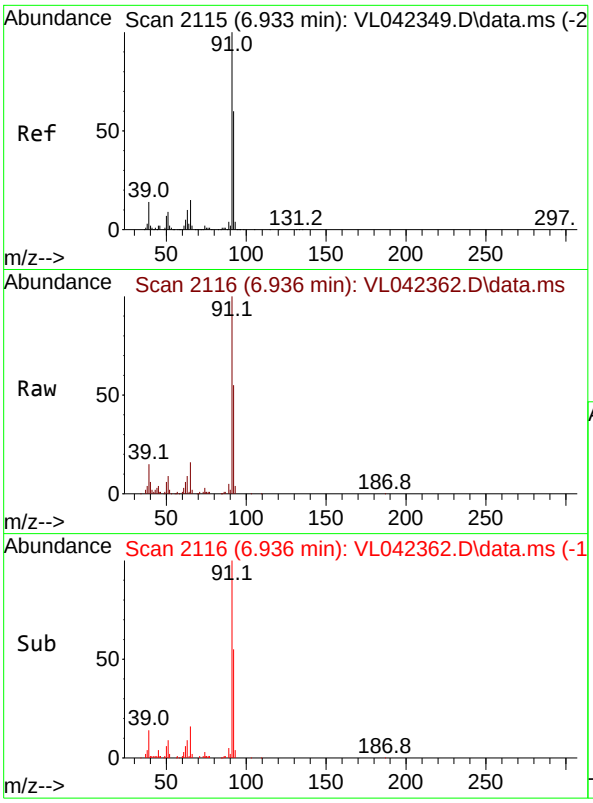


#52
Tetrachloroethene
Concen: 0.036 ppbv
RT: 8.224 min Scan# 2514
Delta R.T. -0.000 min
Lab File: VL042362.D
Acq: 17 Apr 2025 17:51

Tgt Ion:164 Resp: 512

Ion	Ratio	Lower	Upper
164	100		
166	59.3	98.2	147.2#
129	14.9	81.8	122.8#
131	86.5	80.5	120.7



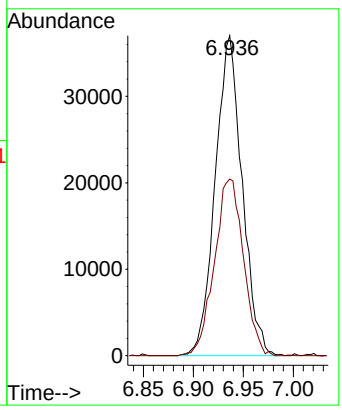


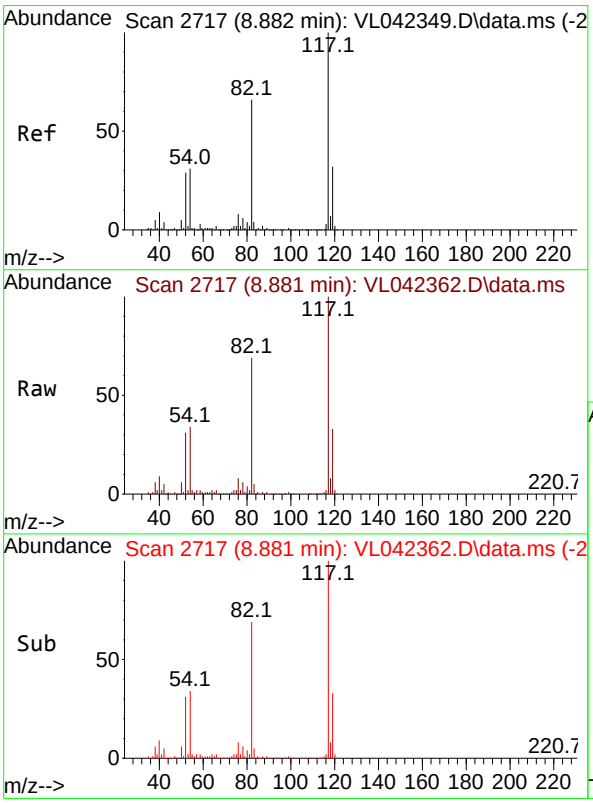
#53
Toluene
Concen: 1.557 ppbv
RT: 6.936 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL042362.D
Acq: 17 Apr 2025 17:51

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025DUP

Tgt Ion: 91 Resp: 69352

Ion	Ratio	Lower	Upper
91	100		
92	59.6	48.2	72.4

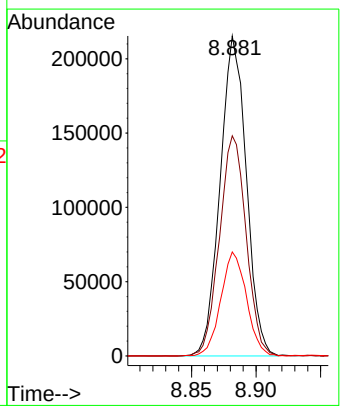


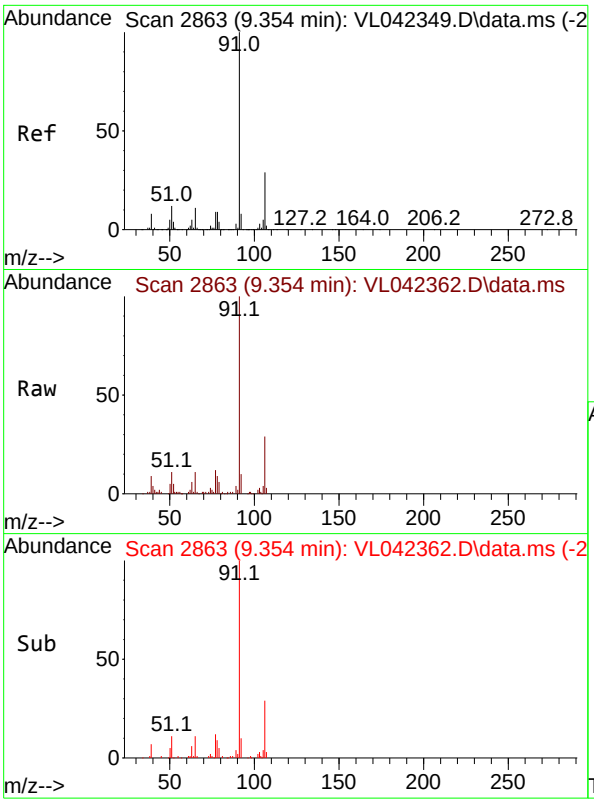


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.881 min Scan# 2717
Delta R.T. -0.000 min
Lab File: VL042362.D
Acq: 17 Apr 2025 17:51

Tgt Ion:117 Resp: 303859

Ion	Ratio	Lower	Upper
117	100		
82	70.0	57.8	86.6
119	31.8	25.2	37.8



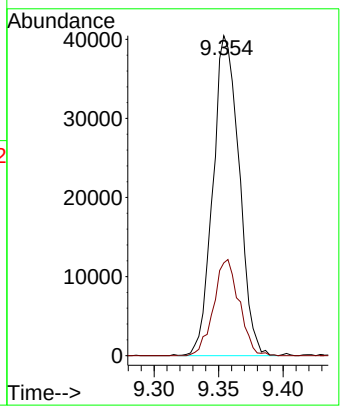


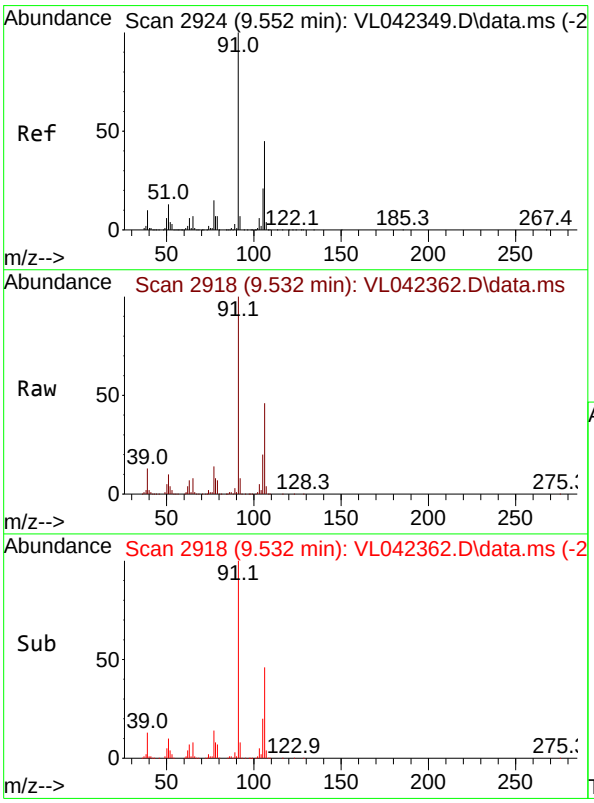
#58
Ethyl Benzene
Concen: 0.948 ppbv
RT: 9.354 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL042362.D
Acq: 17 Apr 2025 17:51

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025DUP

Tgt Ion: 91 Resp: 57094

Ion	Ratio	Lower	Upper
91	100		
106	29.0	23.0	34.4

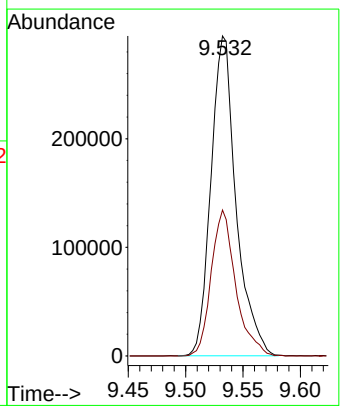


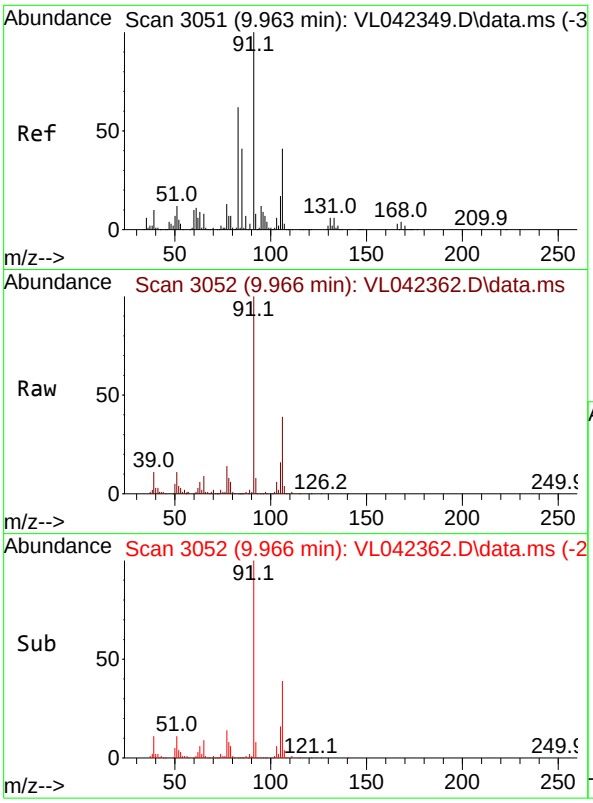


#59
m/p-Xylene
Concen: 9.248 ppbv
RT: 9.532 min Scan# 2918
Delta R.T. -0.019 min
Lab File: VL042362.D
Acq: 17 Apr 2025 17:51

Tgt Ion: 91 Resp: 448533

Ion	Ratio	Lower	Upper
91	100		
106	44.6	35.4	53.2



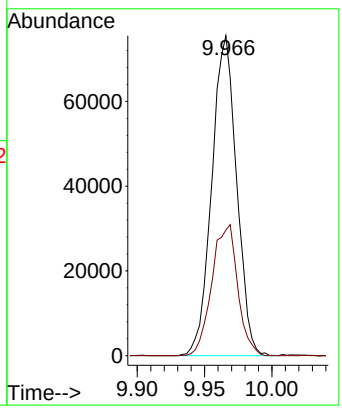


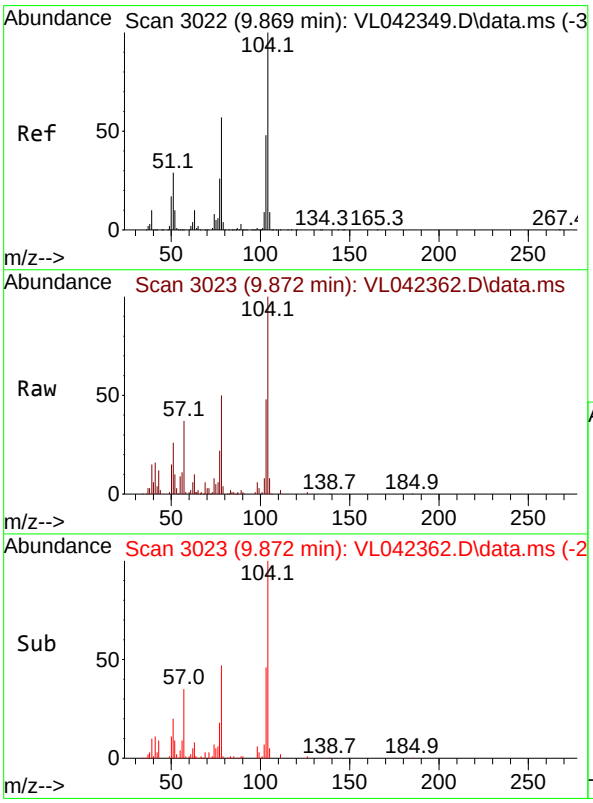
#60
o-Xylene
Concen: 1.983 ppbv
RT: 9.966 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042362.D
Acq: 17 Apr 2025 17:51

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025DUP

Tgt Ion: 91 Resp: 96845

Ion	Ratio	Lower	Upper
91	100		
106	42.5	21.1	63.4

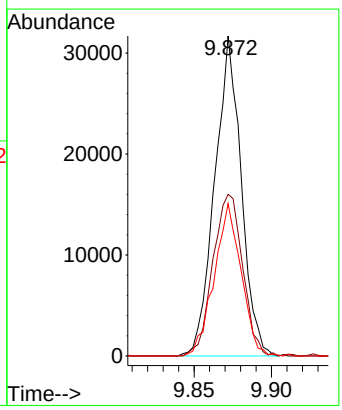


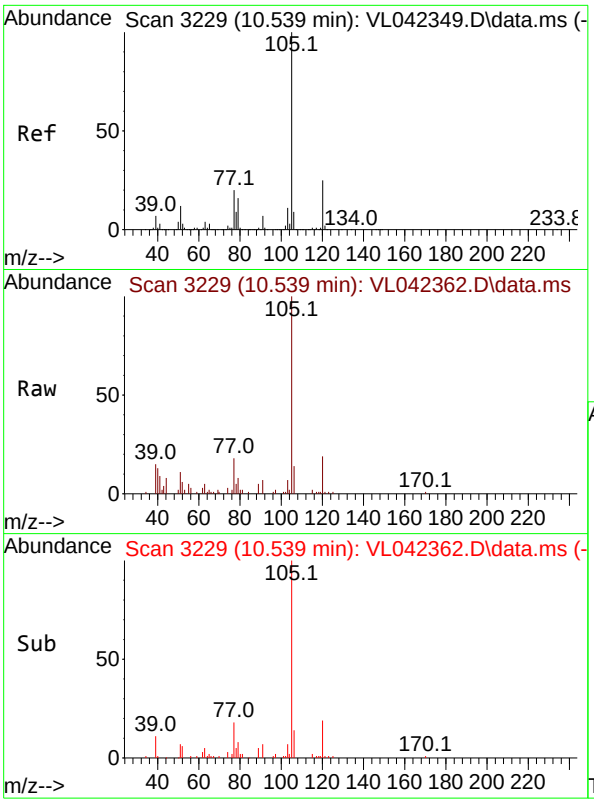


#61
Styrene
Concen: 1.614 ppbv
RT: 9.872 min Scan# 3023
Delta R.T. 0.003 min
Lab File: VL042362.D
Acq: 17 Apr 2025 17:51

Tgt Ion:104 Resp: 37632

Ion	Ratio	Lower	Upper
104	100		
78	57.0	44.6	66.8
103	48.5	37.4	56.0



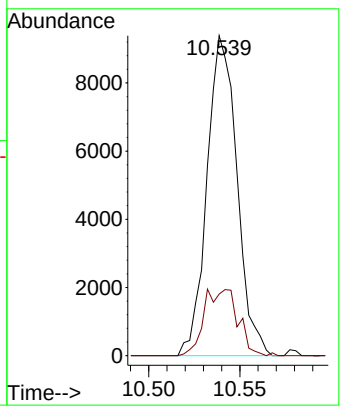


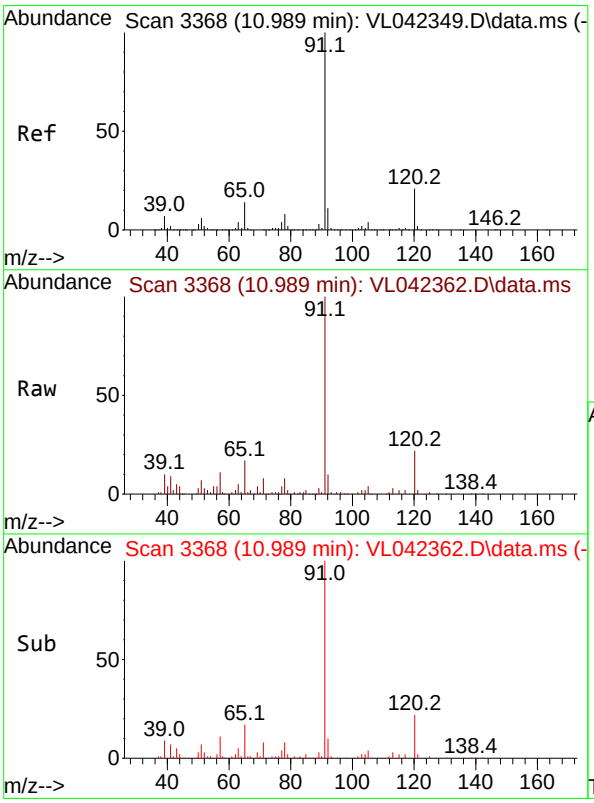
#62
Isopropylbenzene
Concen: 0.150 ppbv
RT: 10.539 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042362.D
Acq: 17 Apr 2025 17:51

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025DUP

Tgt Ion:105 Resp: 10762

Ion	Ratio	Lower	Upper
105	100		
120	23.5	19.8	29.8

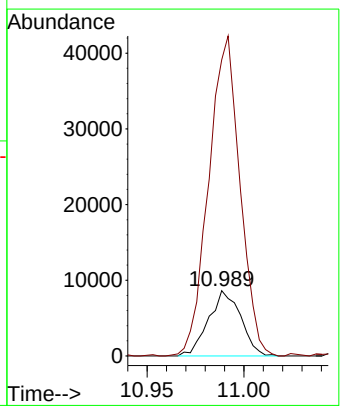


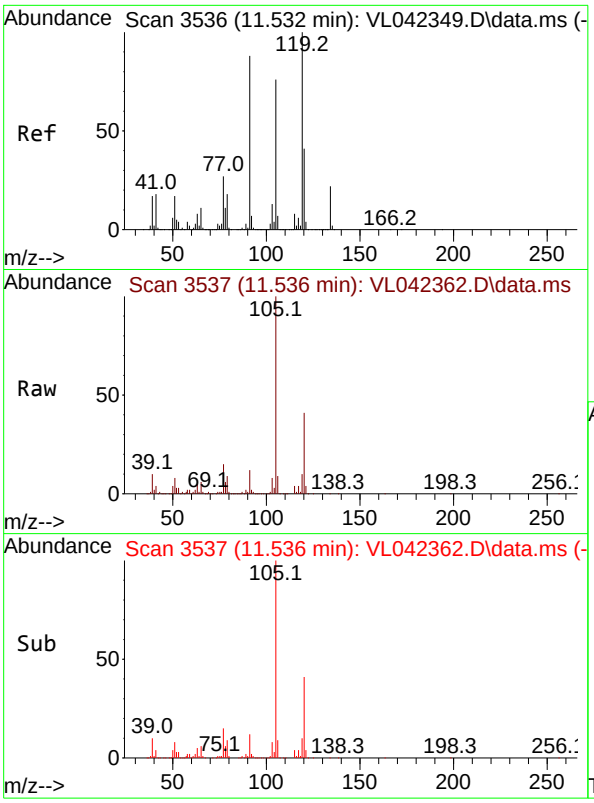


#64
n-propylbenzene
Concen: 0.553 ppbv
RT: 10.989 min Scan# 3368
Delta R.T. -0.000 min
Lab File: VL042362.D
Acq: 17 Apr 2025 17:51

Tgt Ion:120 Resp: 9965

Ion	Ratio	Lower	Upper
120	100		
91	477.7	392.4	588.6



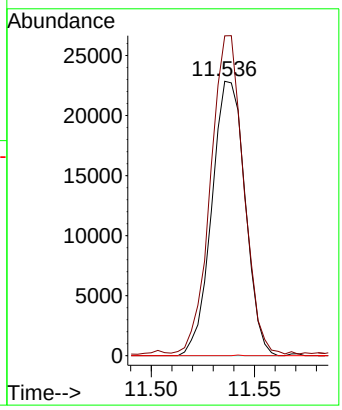


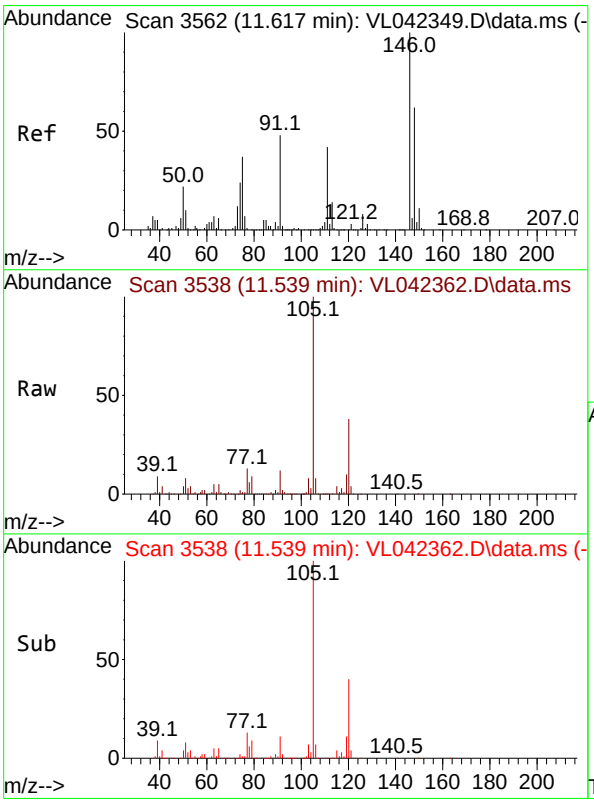
#65
tert-Butylbenzene
Concen: 0.389 ppbv
RT: 11.536 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042362.D
Acq: 17 Apr 2025 17:51

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025DUP

Tgt Ion:119 Resp: 25638

Ion	Ratio	Lower	Upper
119	100		
91	120.2	74.6	111.8#
134	0.0	18.8	28.2#

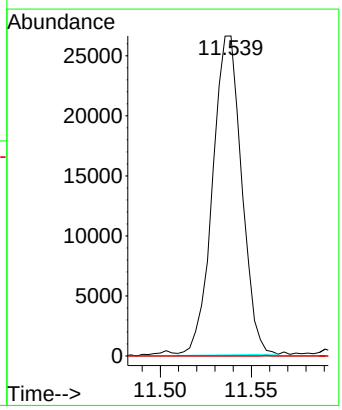


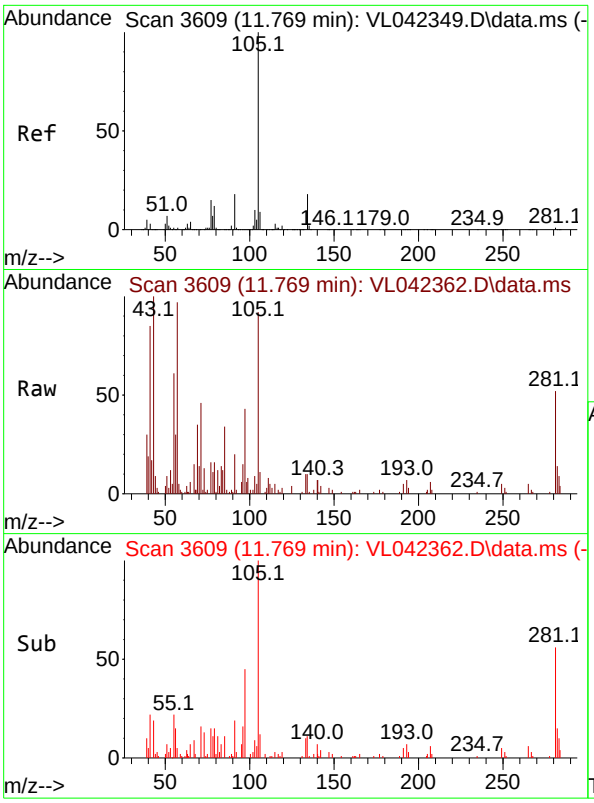


#66
Benzyl Chloride
Concen: 4.075 ppbv
RT: 11.539 min Scan# 3538
Delta R.T. -0.078 min
Lab File: VL042362.D
Acq: 17 Apr 2025 17:51

Tgt Ion: 91 Resp: 29513

Ion	Ratio	Lower	Upper
91	100		
126	0.1	11.8	17.6#
128	0.0	4.5	6.7#



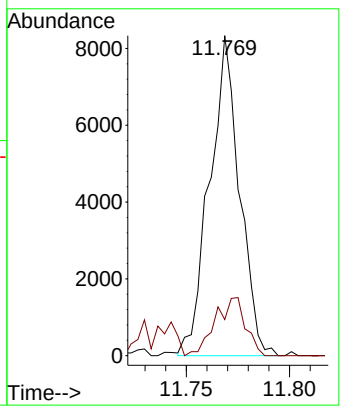


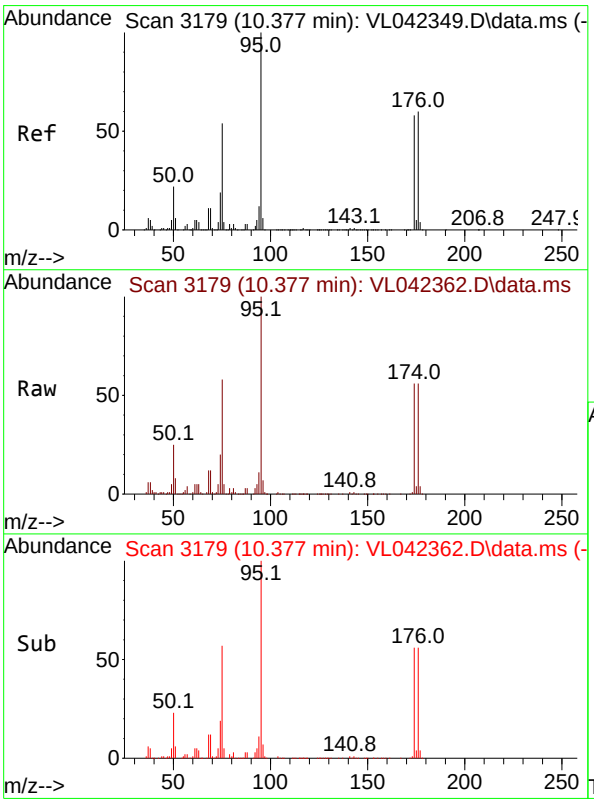
#67
sec-Butylbenzene
Concen: 0.092 ppbv
RT: 11.769 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042362.D
Acq: 17 Apr 2025 17:51

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025DUP

Tgt Ion:105 Resp: 8403

Ion	Ratio	Lower	Upper
105	100		
134	29.0	14.6	21.8#

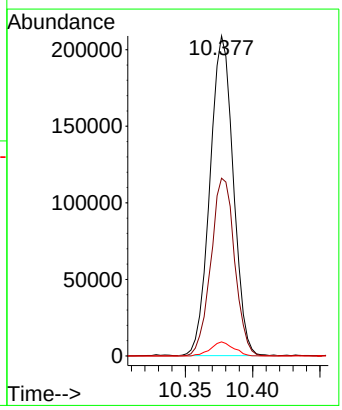


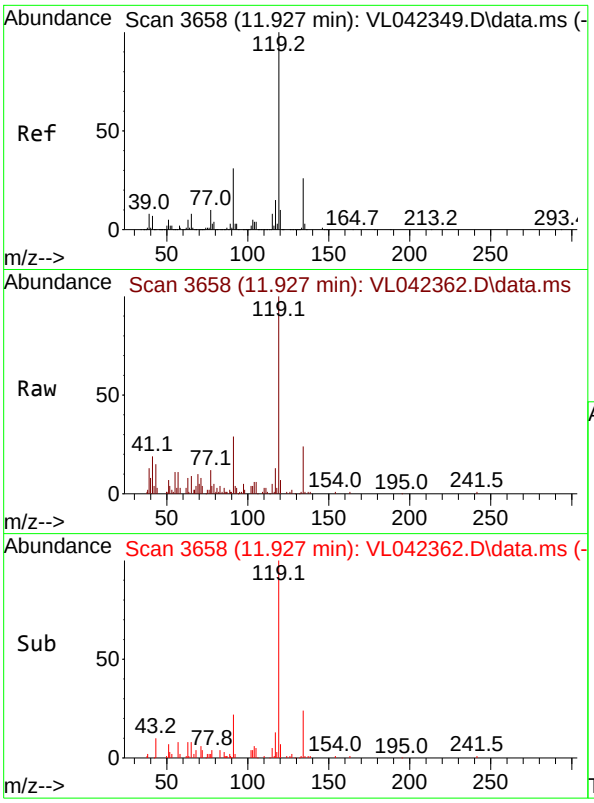


#68
1-Bromo-4-Fluorobenzene
Concen: 10.067 ppbv
RT: 10.377 min Scan# 3179
Delta R.T. -0.000 min
Lab File: VL042362.D
Acq: 17 Apr 2025 17:51

Tgt Ion: 95 Resp: 251359

Ion	Ratio	Lower	Upper
95	100		
174	56.6	48.5	72.7
175	4.3	3.7	5.5



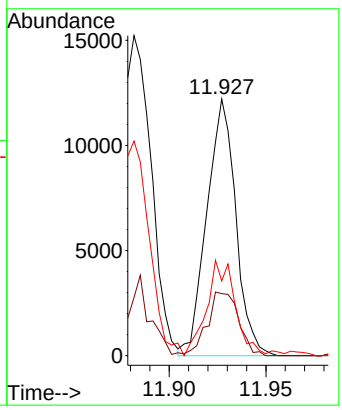


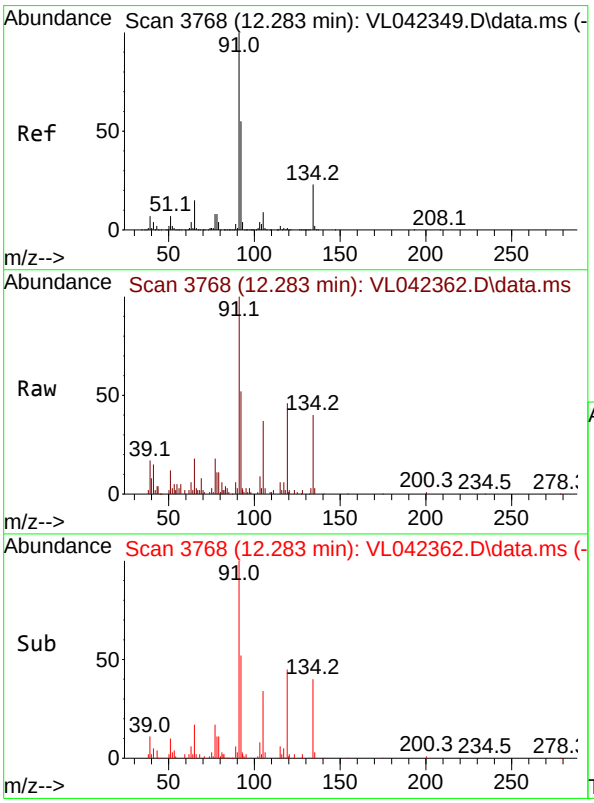
#69
p-Isopropyltoluene
Concen: 0.160 ppbv
RT: 11.927 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042362.D
Acq: 17 Apr 2025 17:51

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025DUP

Tgt Ion:119 Resp: 12725

Ion	Ratio	Lower	Upper
119	100		
134	26.7	20.0	30.0
91	35.9	24.4	36.6

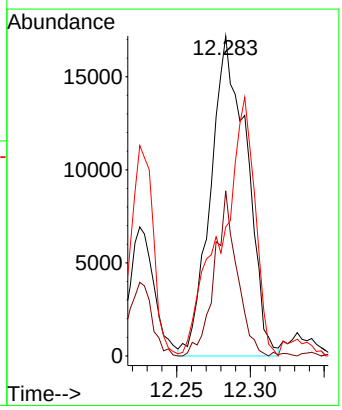


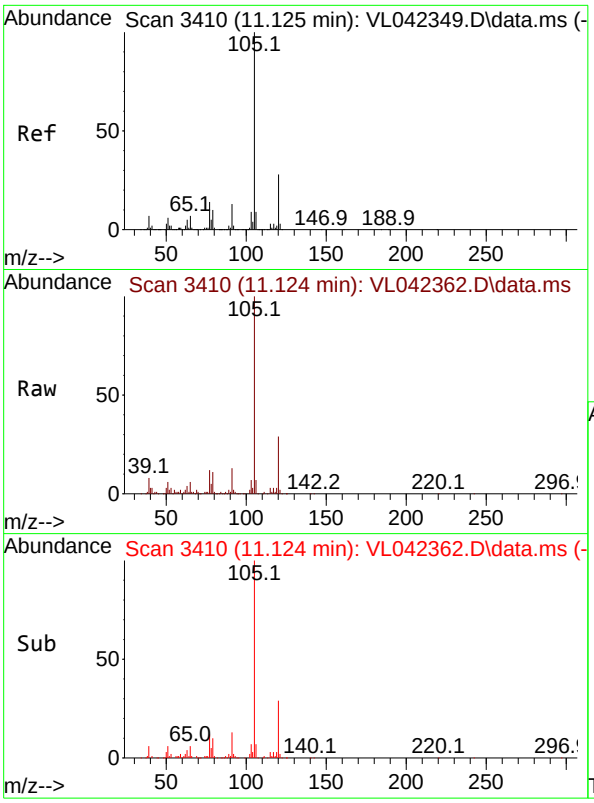


#70
n-Butylbenzene
Concen: 0.353 ppbv
RT: 12.283 min Scan# 3768
Delta R.T. -0.000 min
Lab File: VL042362.D
Acq: 17 Apr 2025 17:51

Tgt Ion: 91 Resp: 29311

Ion	Ratio	Lower	Upper
91	100		
92	32.6	44.2	66.4#
134	78.8	18.2	27.4#



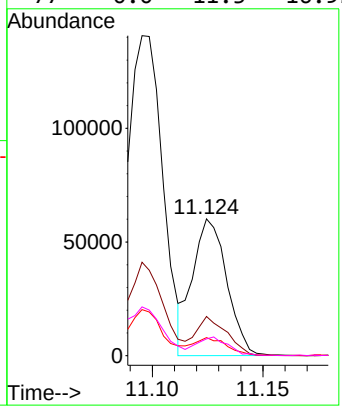


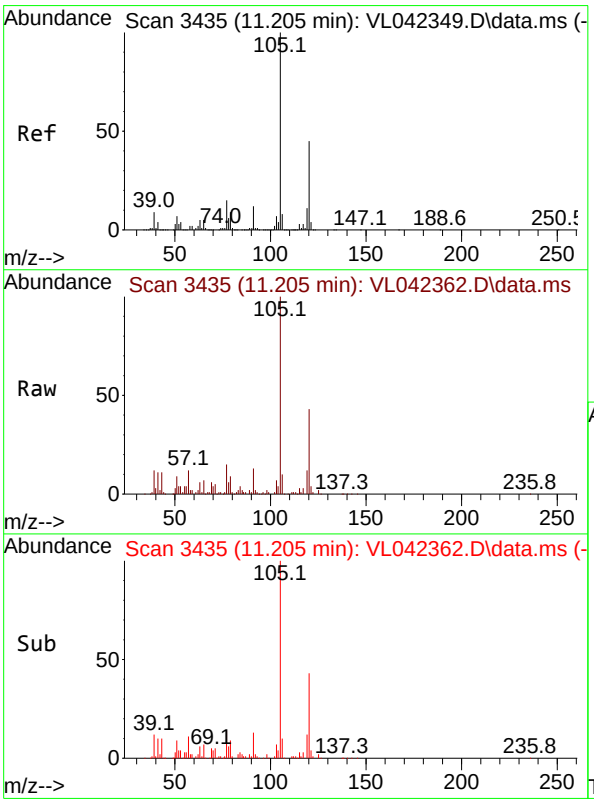
#72
4-Ethyltoluene
Concen: 1.088 ppbv
RT: 11.124 min Scan# 34
Delta R.T. -0.000 min
Lab File: VL042362.D
Acq: 17 Apr 2025 17:51

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025DUP

Tgt Ion:105 Resp: 64934

Ion	Ratio	Lower	Upper
105	100		
120	0.0	23.2	34.8#
91	0.0	10.4	15.6#
77	0.0	11.3	16.9#

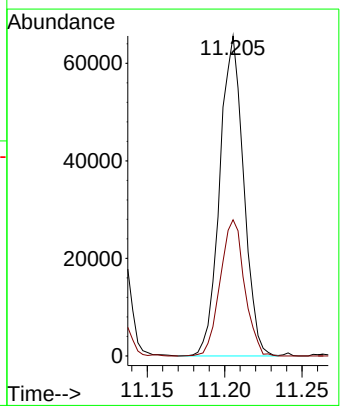


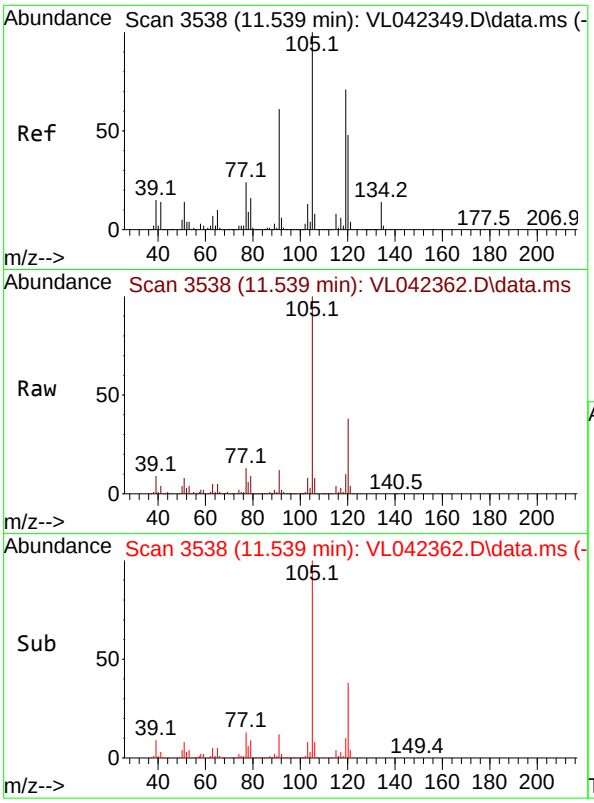


#73
1,3,5-Trimethylbenzene
Concen: 1.336 ppbv
RT: 11.205 min Scan# 3435
Delta R.T. -0.000 min
Lab File: VL042362.D
Acq: 17 Apr 2025 17:51

Tgt Ion:105 Resp: 70431

Ion	Ratio	Lower	Upper
105	100		
120	42.6	35.6	53.4



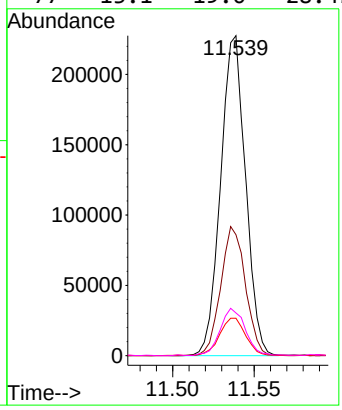


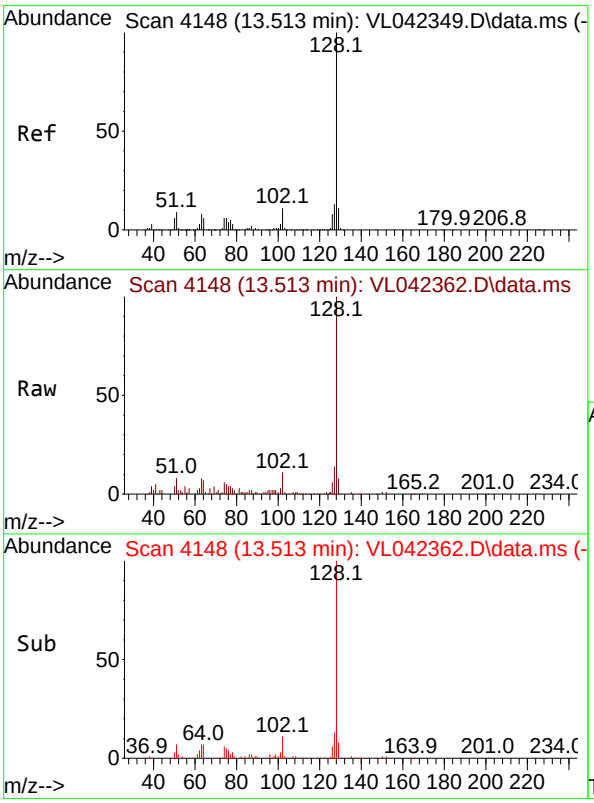
#74
1,2,4-Trimethylbenzene
Concen: 3.931 ppbv
RT: 11.539 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042362.D
Acq: 17 Apr 2025 17:51

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025DUP

Tgt Ion:105 Resp: 242011

Ion	Ratio	Lower	Upper
105	100		
120	37.8	38.1	57.1#
91	11.6	48.8	73.2#
77	13.1	19.0	28.4#

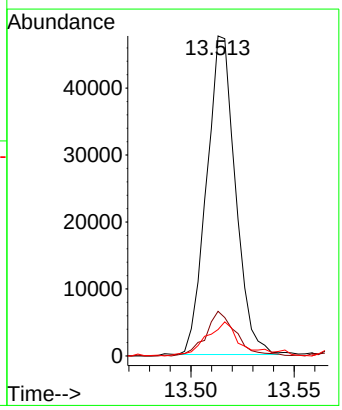


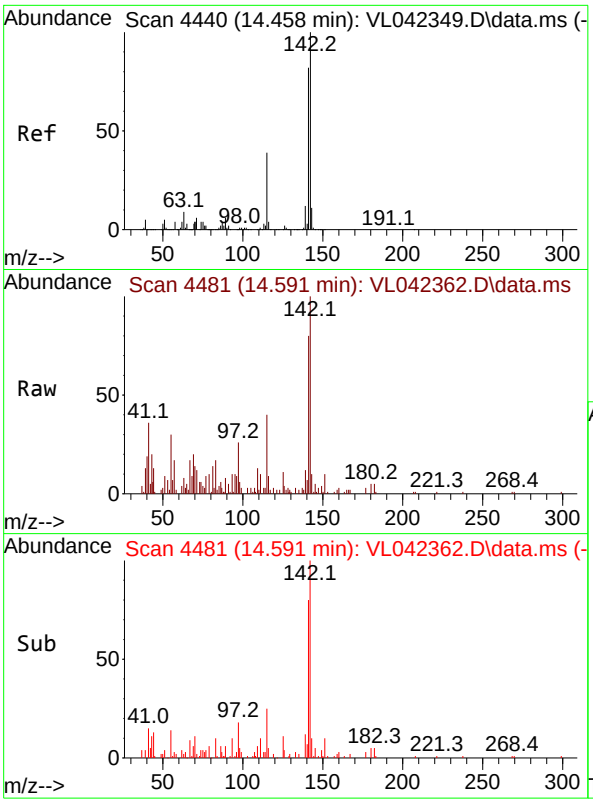


#79
Naphthalene
Concen: 0.626 ppbv
RT: 13.513 min Scan# 4148
Delta R.T. -0.000 min
Lab File: VL042362.D
Acq: 17 Apr 2025 17:51

Tgt Ion:128 Resp: 46070

Ion	Ratio	Lower	Upper
128	100		
127	13.7	10.6	15.8
129	7.6	8.6	12.8#



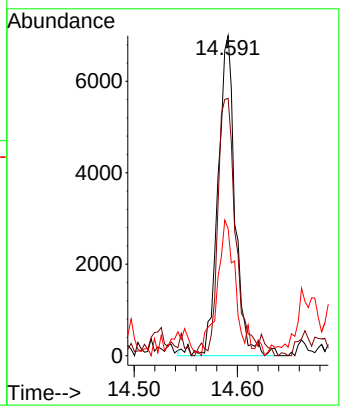


#80
Naphthalene,2-methyl-
Concen: 0.193 ppbv
RT: 14.591 min Scan# 44
Delta R.T. 0.133 min
Lab File: VL042362.D
Acq: 17 Apr 2025 17:51

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025DUP

Tgt Ion:142 Resp: 8081

Ion	Ratio	Lower	Upper
142	100		
141	86.3	66.8	100.2
115	42.8	33.4	50.2



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042363.D
Acq On : 17 Apr 2025 18:24
Operator : SY/MD
Sample : Q1668-03
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-3-3252025

Quant Time: Apr 18 02:40:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.787	49	117934	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.959	114	342044	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.882	117	304398	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.374	95	248134	9.920	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 99.200%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.499	85	9160	0.440	ppbv		95
3) Chlorodifluoromethane	1.476	51	9426	0.475	ppbv		93
4) Chloromethane	1.531	50	4904	0.595	ppbv	#	87
6) Bromomethane	1.670	94	153	0.040	ppbv	#	79
7) Chloroethane	1.680	64	102	0.031	ppbv	#	1
8) Dichlorotetrafluoroethane	1.551	85	732	0.041	ppbv	#	68
9) Propene	1.486	41	5102	0.565	ppbv		84
10) Heptane	4.981	43	38916	1.533	ppbv		97
11) Trichlorofluoromethane	1.874	101	4391	0.222	ppbv		92
12) 1,1,2-Trichlorotrifluo...	2.143	101	1232	0.076	ppbv		91
13) Ethanol	1.719	45	261942	182.383	ppbv		74
15) Acetone	1.835	43	99681	5.163	ppbv		92
16) 1,3-Butadiene	1.599	39	5406	0.585	ppbv	#	36
17) tert-Butyl alcohol	2.046	59	3174	0.133	ppbv	#	41
19) Isopropyl Alcohol	1.887	45	27920	2.603	ppbv	#	36
20) Methylene Chloride	2.062	84	6217	0.822	ppbv		98
21) Allyl Chloride	2.078	41	1524	0.114	ppbv	#	54
23) Vinyl Acetate	2.457	43	4881	0.625	ppbv	#	65
25) Ethyl Acetate	2.826	43	32622	0.685	ppbv	#	81
26) Hexane	2.826	57	45627	2.369	ppbv	#	32
27) Carbon Disulfide	2.149	76	5126	0.249	ppbv	#	1
30) Cyclohexane	3.852	84	16394	1.053	ppbv	#	1
34) 2-Butanone	2.557	43	20715	0.766	ppbv		98
35) Carbon Tetrachloride	3.761	117	1016	0.033	ppbv	#	47
36) Benzene	3.654	78	20999	0.569	ppbv	#	93
39) 1,2-Dichloropropane	3.955	63	93853	6.827	ppbv	#	23
41) Tetrahydrofuran	3.075	42	1322	0.084	ppbv	#	49
44) 2,2,4-Trimethylpentane	4.638	57	5226	0.082	ppbv	#	42
50) 4-Methyl-2-Pentanone	5.748	43	689390	15.336	ppbv		98
53) Toluene	6.936	91	63791	1.441	ppbv		100
58) Ethyl Benzene	9.351	91	69152	1.147	ppbv		94
59) m/p-Xylene	9.529	91	373837	7.695	ppbv		99
60) o-Xylene	9.966	91	127919	2.615	ppbv		99
61) Styrene	9.869	104	18463	0.791	ppbv		98
62) Isopropylbenzene	10.539	105	11682	0.163	ppbv		98
64) n-propylbenzene	10.992	120	5104	0.283	ppbv	#	1
65) tert-Butylbenzene	11.536	119	35413	0.536	ppbv	#	76
66) Benzyl Chloride	11.536	91	37225	5.131	ppbv	#	70
67) sec-Butylbenzene	11.769	105	8682	0.095	ppbv		92
69) p-Isopropyltoluene	11.924	119	9270	0.116	ppbv		97
70) n-Butylbenzene	12.283	91	24716	0.297	ppbv	#	80
72) 4-Ethyltoluene	11.124	105	83127	1.390	ppbv	#	56
73) 1,3,5-Trimethylbenzene	11.202	105	91013	1.724	ppbv		97

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042363.D
Acq On : 17 Apr 2025 18:24
Operator : SY/MD
Sample : Q1668-03
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-3-3252025

Quant Time: Apr 18 02:40:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration

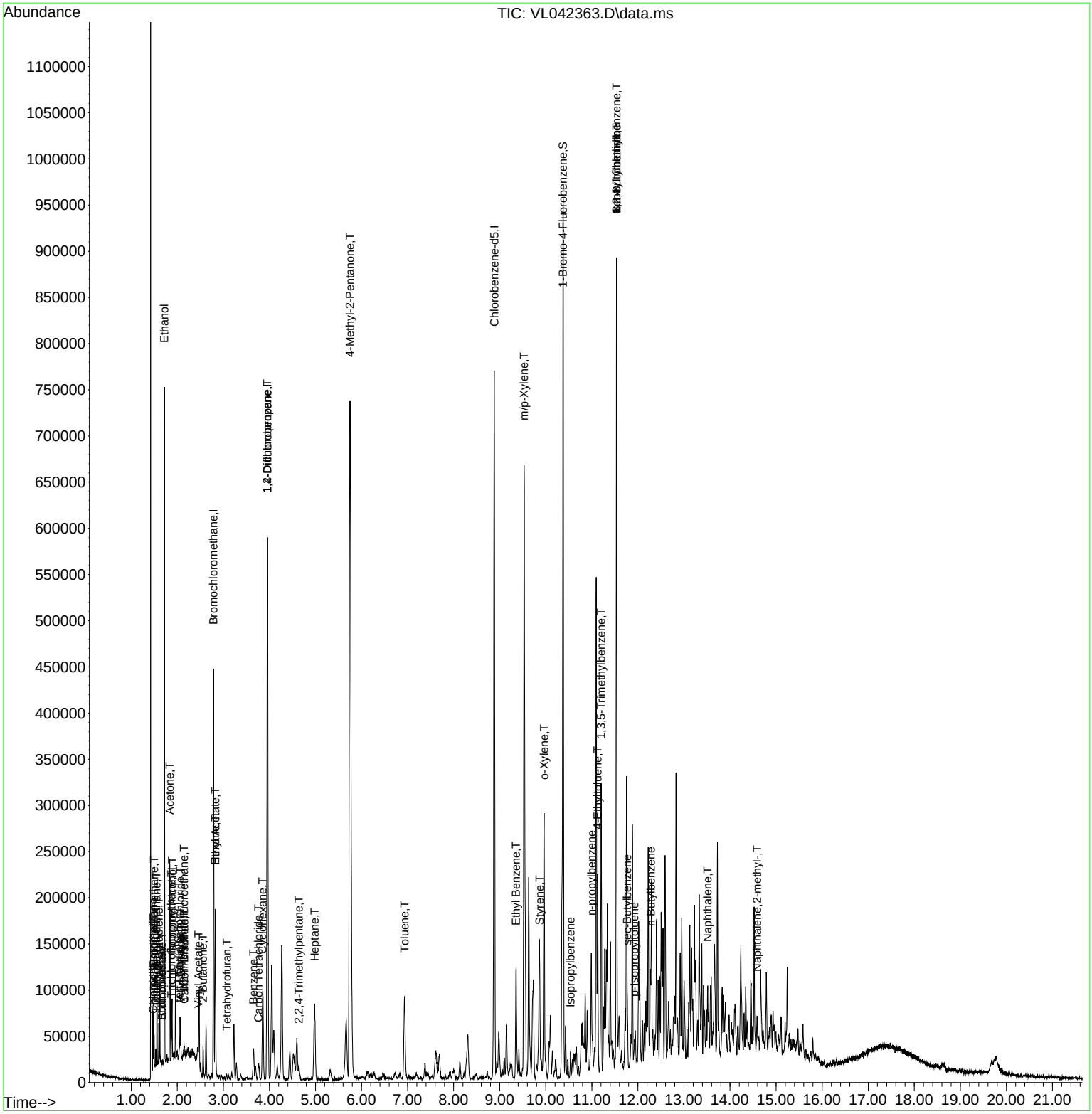
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
74) 1,2,4-Trimethylbenzene	11.536	105	321031	5.205	ppbv #	64
79) Naphthalene	13.513	128	34268	0.465	ppbv	97
80) Naphthalene,2-methyl-	14.588	142	8582	0.204	ppbv	97

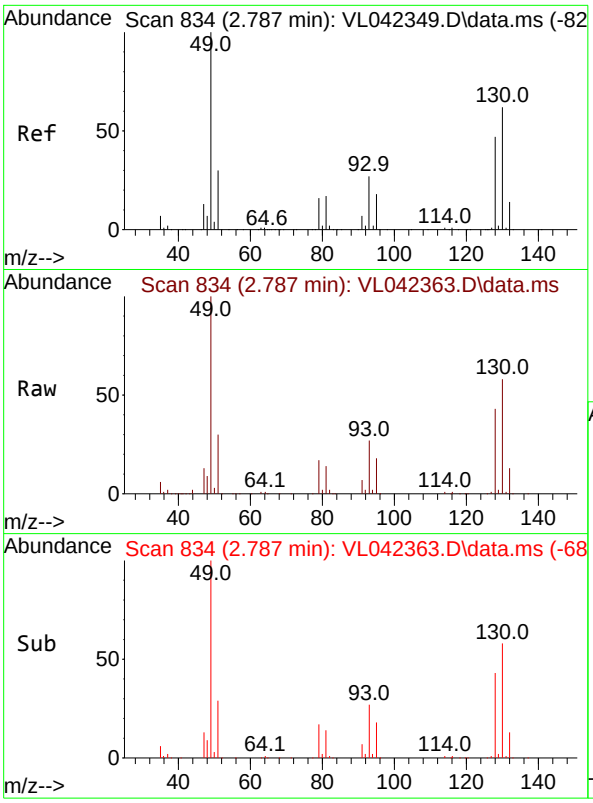
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042363.D
Acq On : 17 Apr 2025 18:24
Operator : SY/MD
Sample : Q1668-03
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-3-3252025

Quant Time: Apr 18 02:40:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration



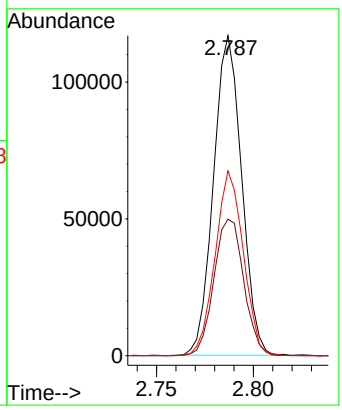


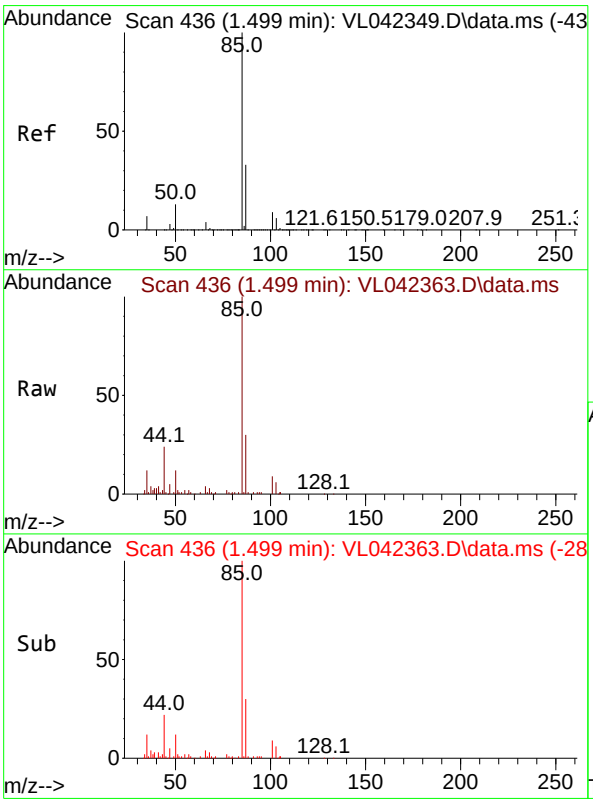
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL042363.D
Acq: 17 Apr 2025 18:24

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-3-3252025

Tgt Ion: 49 Resp: 117934

Ion	Ratio	Lower	Upper
49	100		
128	45.4	22.8	68.4
130	58.0	29.3	88.0

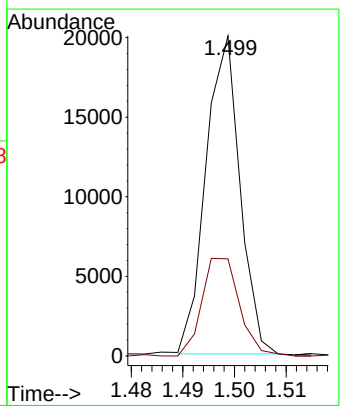


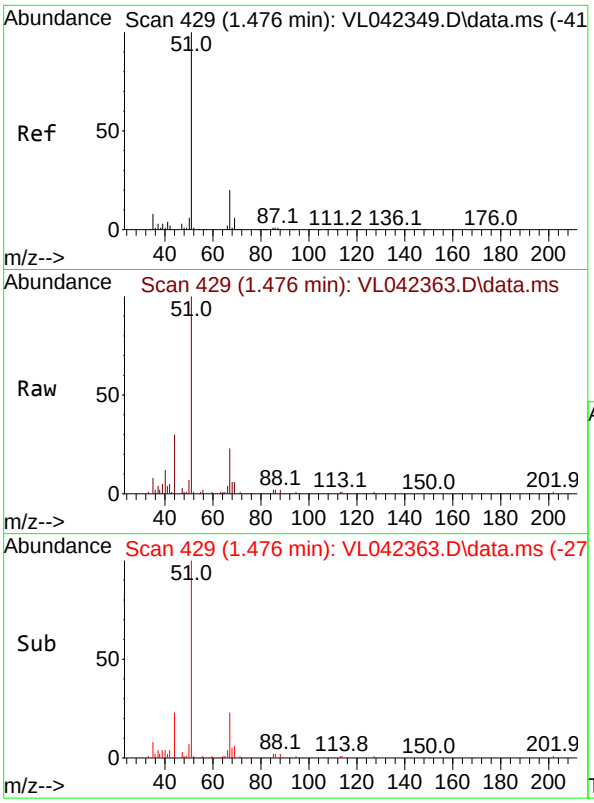


#2
Dichlorodifluoromethane
Concen: 0.440 ppbv
RT: 1.499 min Scan# 436
Delta R.T. -0.000 min
Lab File: VL042363.D
Acq: 17 Apr 2025 18:24

Tgt Ion: 85 Resp: 9160

Ion	Ratio	Lower	Upper
85	100		
87	30.5	26.6	39.8



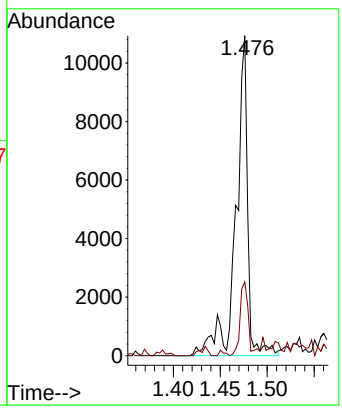


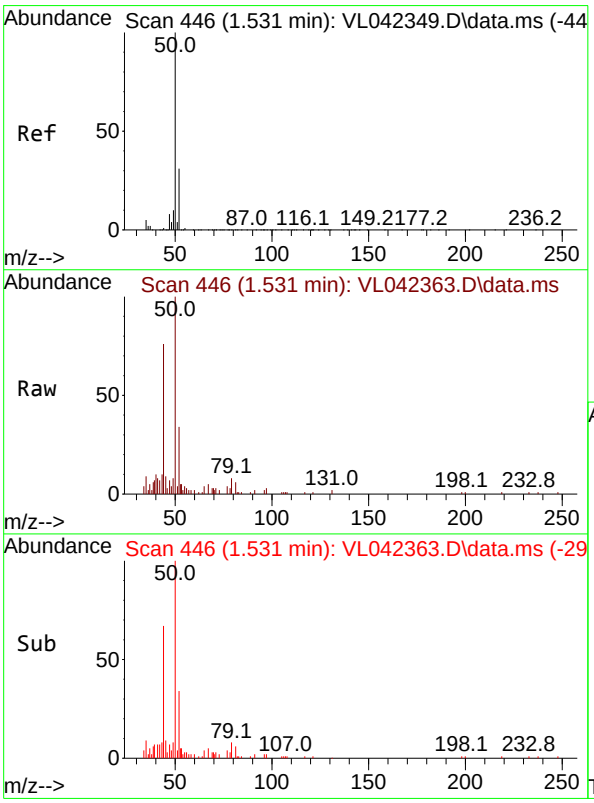
#3
Chlorodifluoromethane
Concen: 0.475 ppbv
RT: 1.476 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042363.D
Acq: 17 Apr 2025 18:24

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-3-3252025

Tgt Ion: 51 Resp: 9426

Ion	Ratio	Lower	Upper
51	100		
67	17.2	16.2	24.4

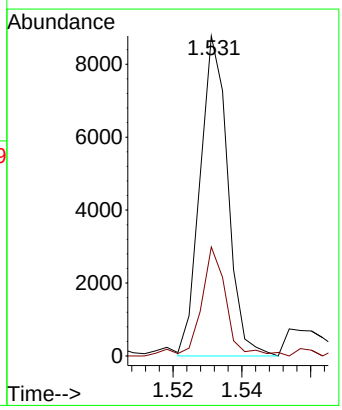


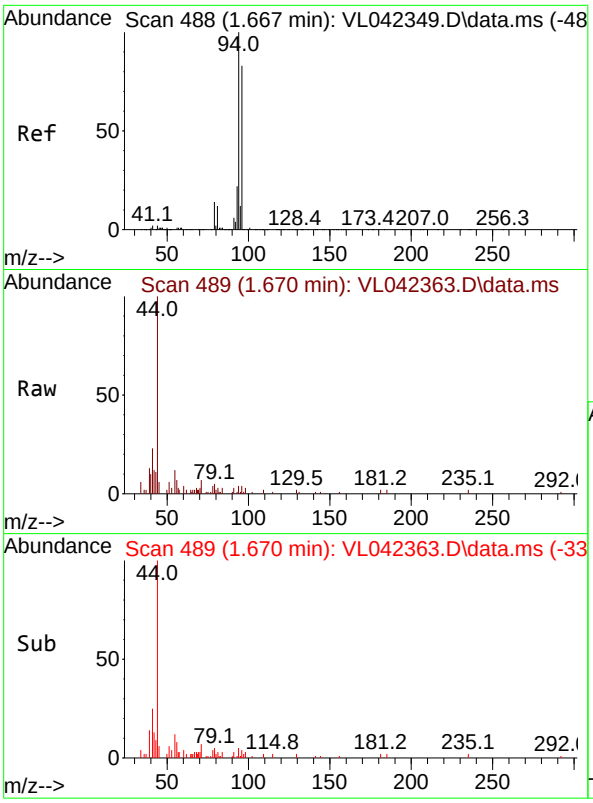


#4
Chloromethane
Concen: 0.595 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042363.D
Acq: 17 Apr 2025 18:24

Tgt Ion: 50 Resp: 4904

Ion	Ratio	Lower	Upper
50	100		
52	37.8	24.7	37.1#



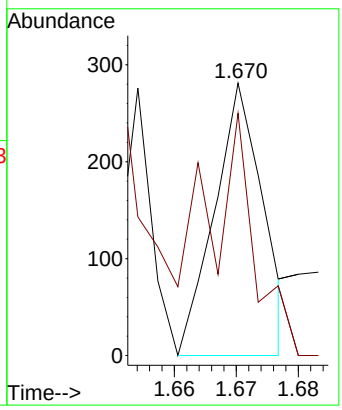


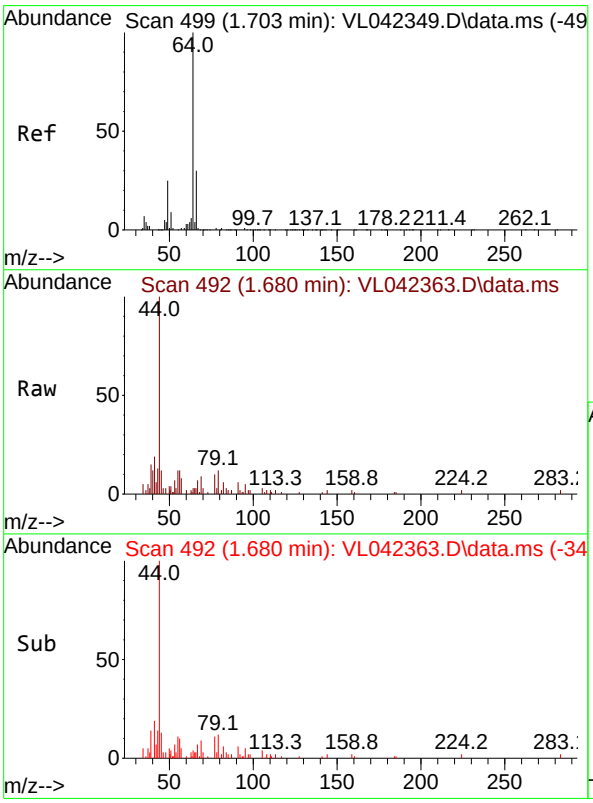
#6
Bromomethane
Concen: 0.040 ppbv
RT: 1.670 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL042363.D
Acq: 17 Apr 2025 18:24

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-3-3252025

Tgt Ion: 94 Resp: 153

Ion	Ratio	Lower	Upper
94	100		
96	63.7	66.2	99.2#

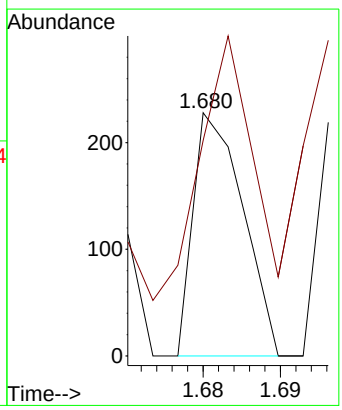


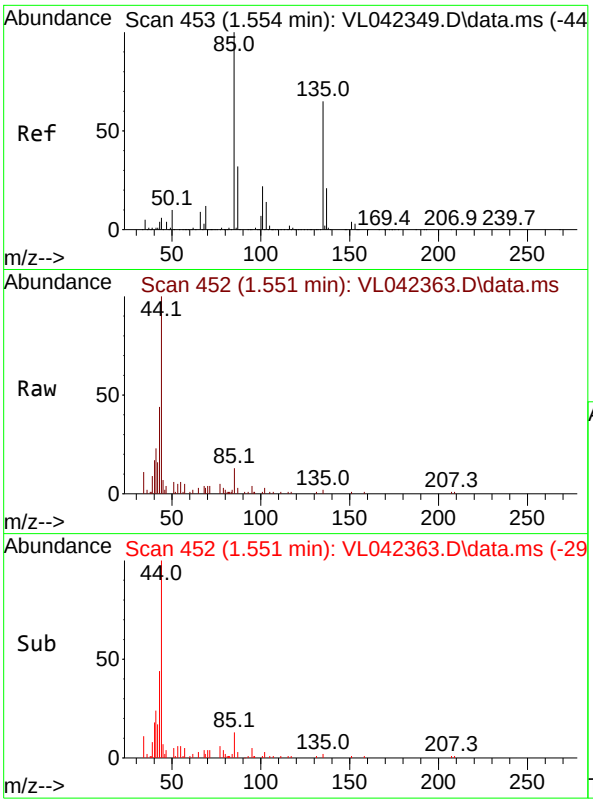


#7
Chloroethane
Concen: 0.031 ppbv
RT: 1.680 min Scan# 492
Delta R.T. -0.023 min
Lab File: VL042363.D
Acq: 17 Apr 2025 18:24

Tgt Ion: 64 Resp: 102

Ion	Ratio	Lower	Upper
64	100		
66	279.4	24.6	37.0#



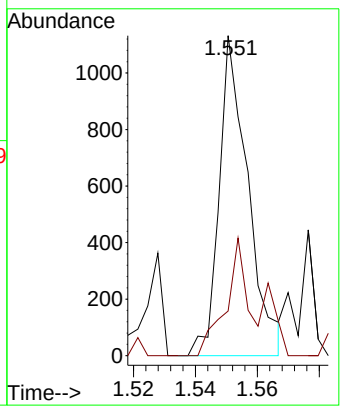


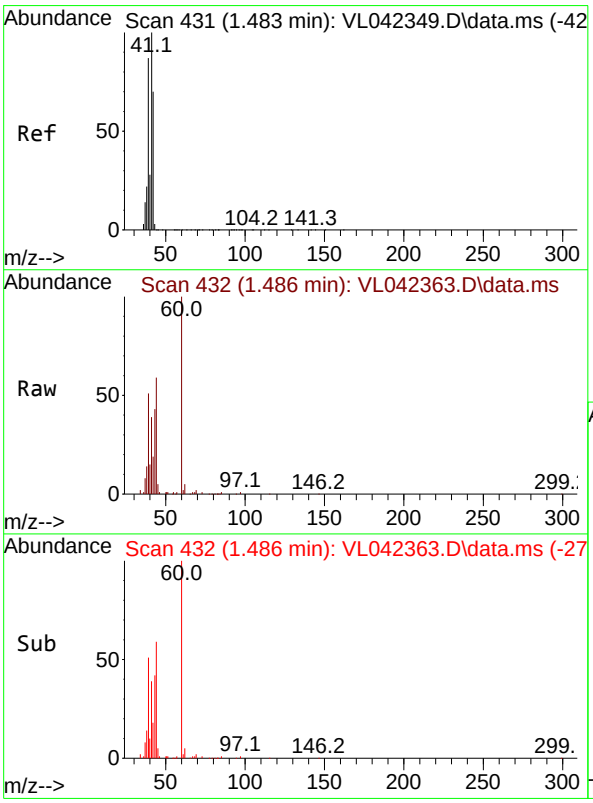
#8
Dichlorotetrafluoroethane
Concen: 0.041 ppbv
RT: 1.551 min Scan# 4
Delta R.T. -0.003 min
Lab File: VL042363.D
Acq: 17 Apr 2025 18:24

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-3-3252025

Tgt Ion: 85 Resp: 732

Ion	Ratio	Lower	Upper
85	100		
135	39.9	52.2	78.2#

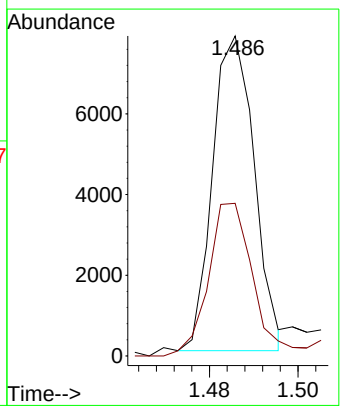


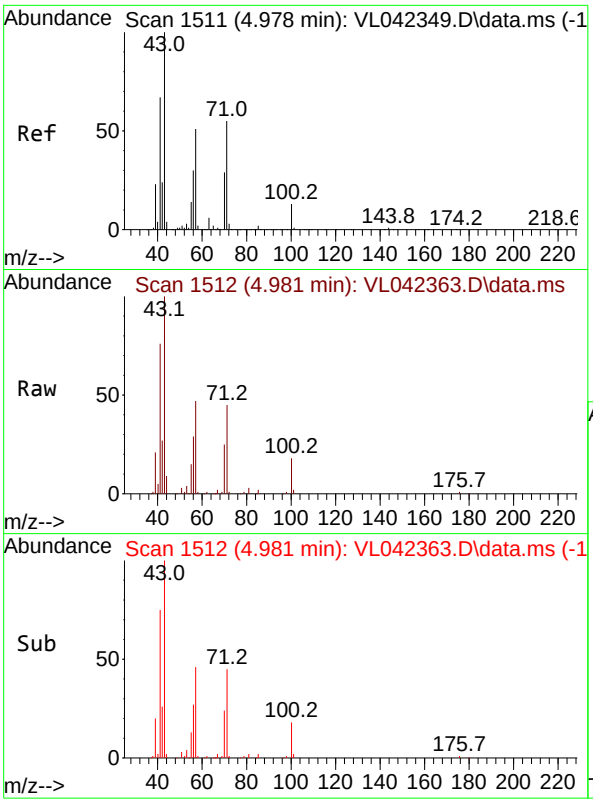


#9
Propene
Concen: 0.565 ppbv
RT: 1.486 min Scan# 432
Delta R.T. 0.003 min
Lab File: VL042363.D
Acq: 17 Apr 2025 18:24

Tgt Ion: 41 Resp: 5102

Ion	Ratio	Lower	Upper
41	100		
42	57.3	56.2	84.4



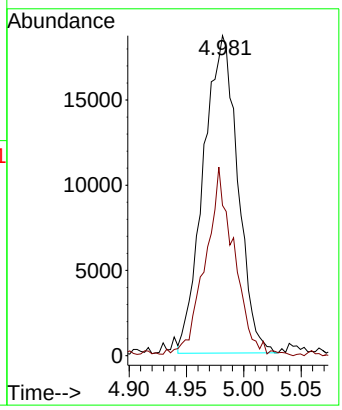


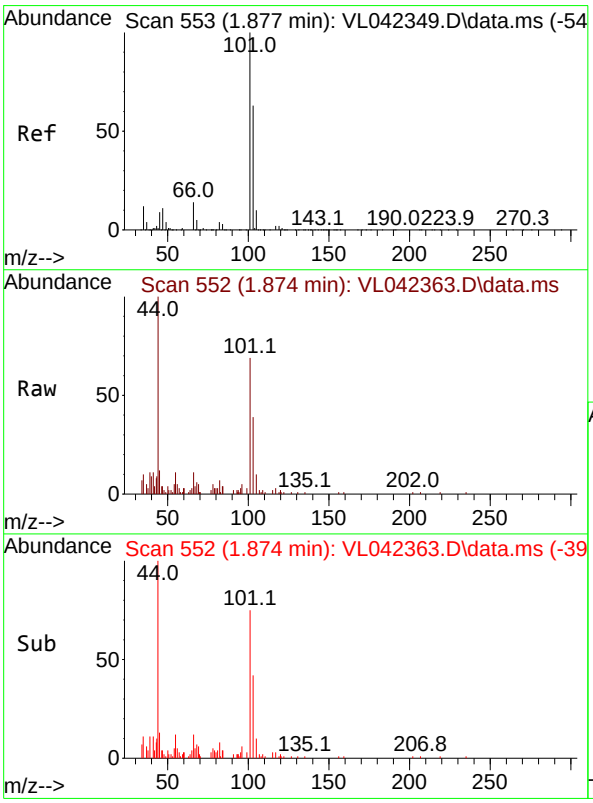
#10
Heptane
Concen: 1.533 ppbv
RT: 4.981 min Scan# 1
Delta R.T. 0.003 min
Lab File: VL042363.D
Acq: 17 Apr 2025 18:24

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-3-3252025

Tgt Ion: 43 Resp: 38916

Ion	Ratio	Lower	Upper
43	100		
57	51.7	39.9	59.9

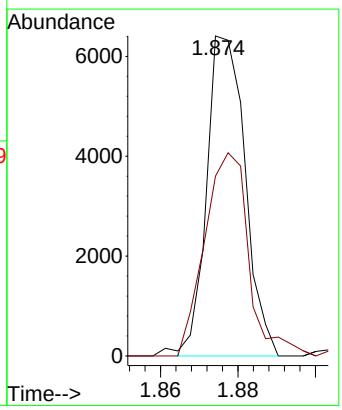


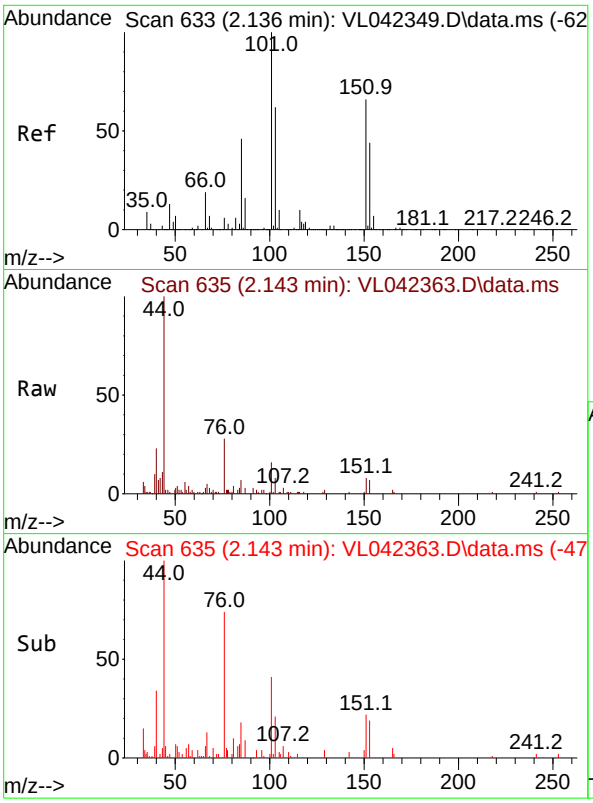


#11
Trichlorofluoromethane
Concen: 0.222 ppbv
RT: 1.874 min Scan# 552
Delta R.T. -0.003 min
Lab File: VL042363.D
Acq: 17 Apr 2025 18:24

Tgt Ion:101 Resp: 4391

Ion	Ratio	Lower	Upper
101	100		
103	56.2	50.1	75.1



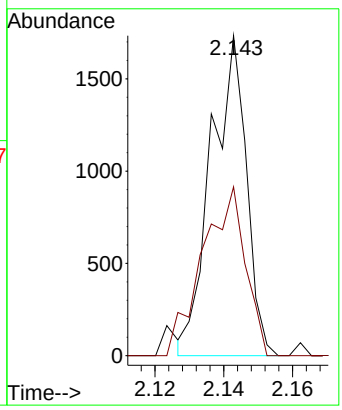


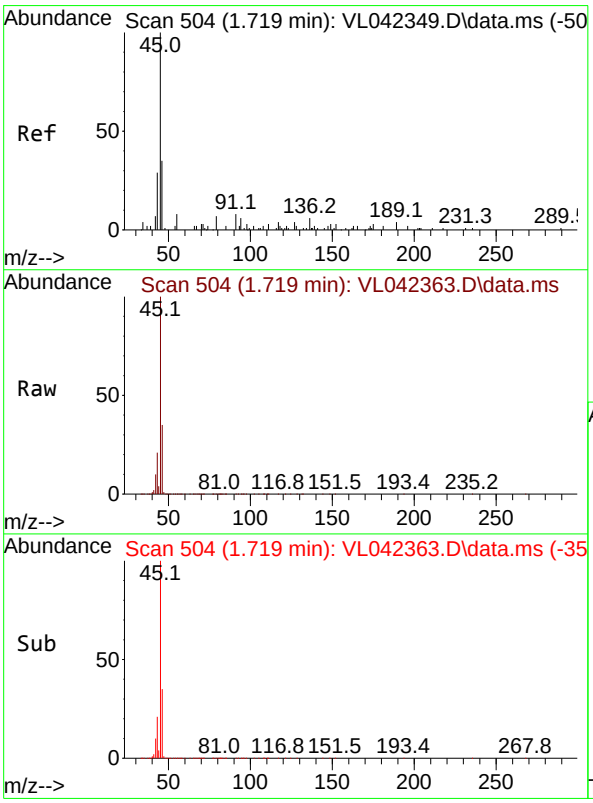
#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.076 ppbv
RT: 2.143 min Scan# 6
Delta R.T. 0.006 min
Lab File: VL042363.D
Acq: 17 Apr 2025 18:24

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-3-3252025

Tgt Ion:101 Resp: 1232

Ion	Ratio	Lower	Upper
101	100		
151	64.2	57.0	85.6

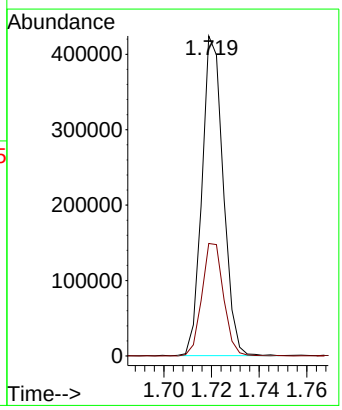


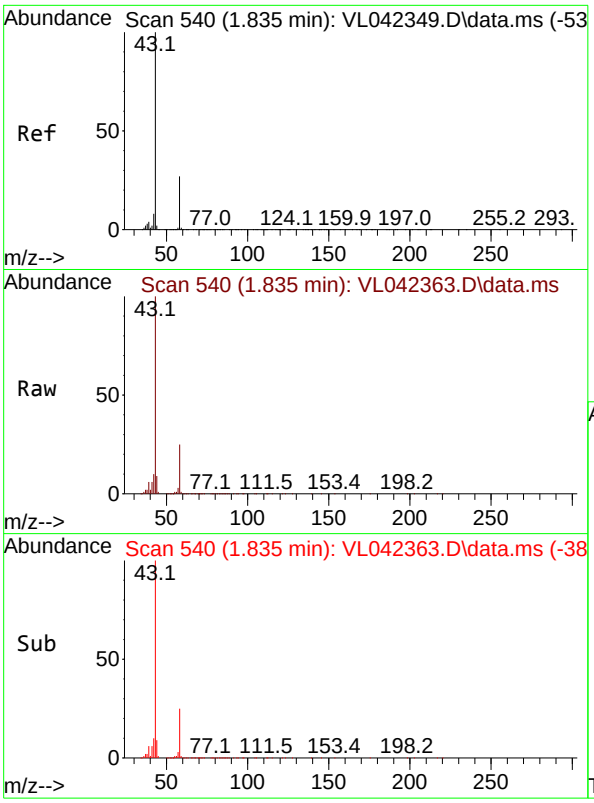


#13
Ethanol
Concen: 182.383 ppbv
RT: 1.719 min Scan# 504
Delta R.T. -0.000 min
Lab File: VL042363.D
Acq: 17 Apr 2025 18:24

Tgt Ion: 45 Resp: 261942

Ion	Ratio	Lower	Upper
45	100		
46	36.2	21.9	87.7



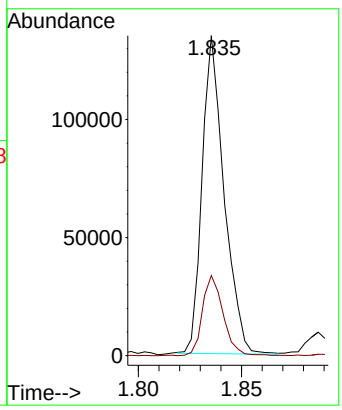


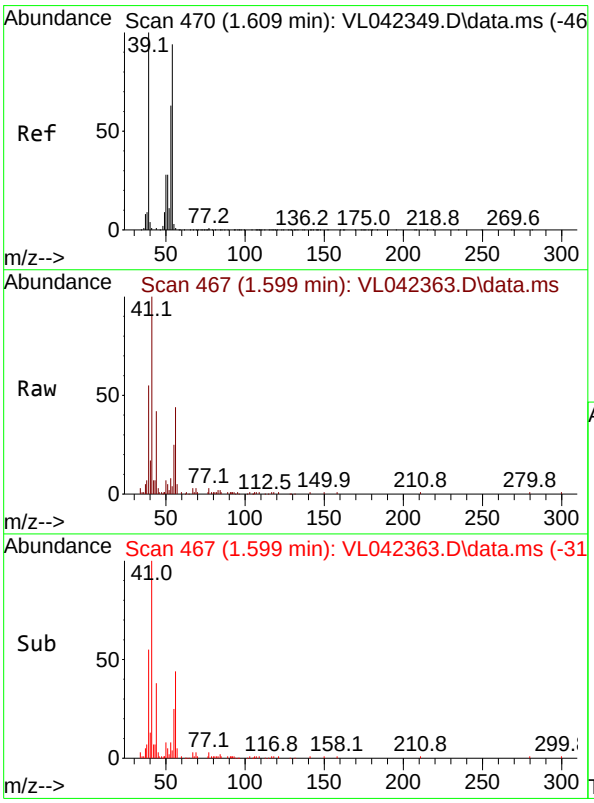
#15
Acetone
Concen: 5.163 ppbv
RT: 1.835 min Scan# 54
Delta R.T. -0.000 min
Lab File: VL042363.D
Acq: 17 Apr 2025 18:24

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-3-3252025

Tgt Ion: 43 Resp: 99681

Ion	Ratio	Lower	Upper
43	100		
58	23.6	22.4	33.6

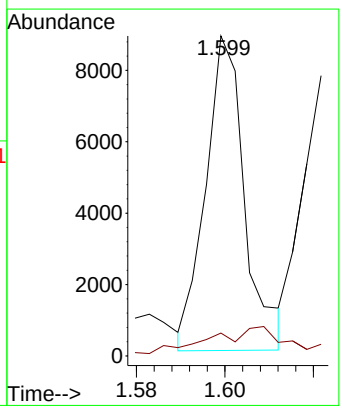


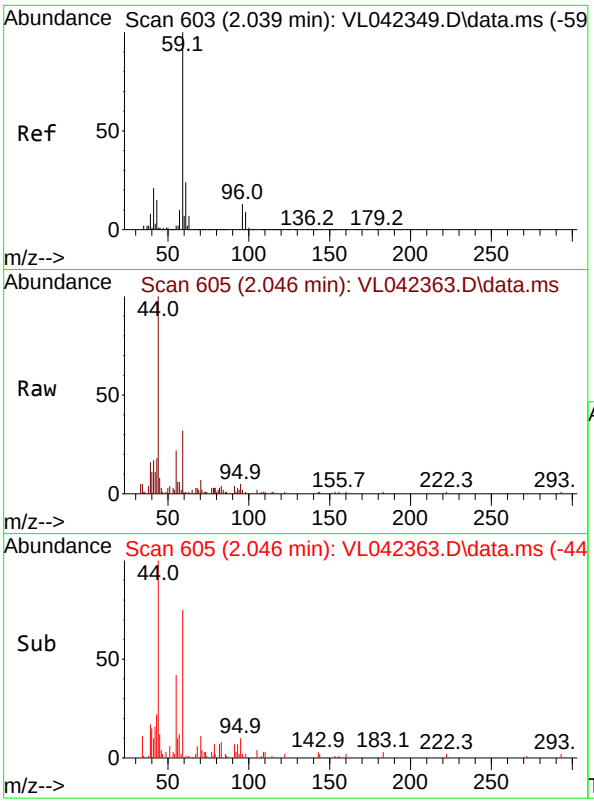


#16
1,3-Butadiene
Concen: 0.585 ppbv
RT: 1.599 min Scan# 467
Delta R.T. -0.010 min
Lab File: VL042363.D
Acq: 17 Apr 2025 18:24

Tgt Ion: 39 Resp: 5406

Ion	Ratio	Lower	Upper
39	100		
54	24.3	64.9	97.3#



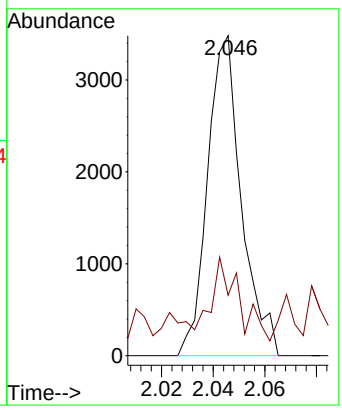


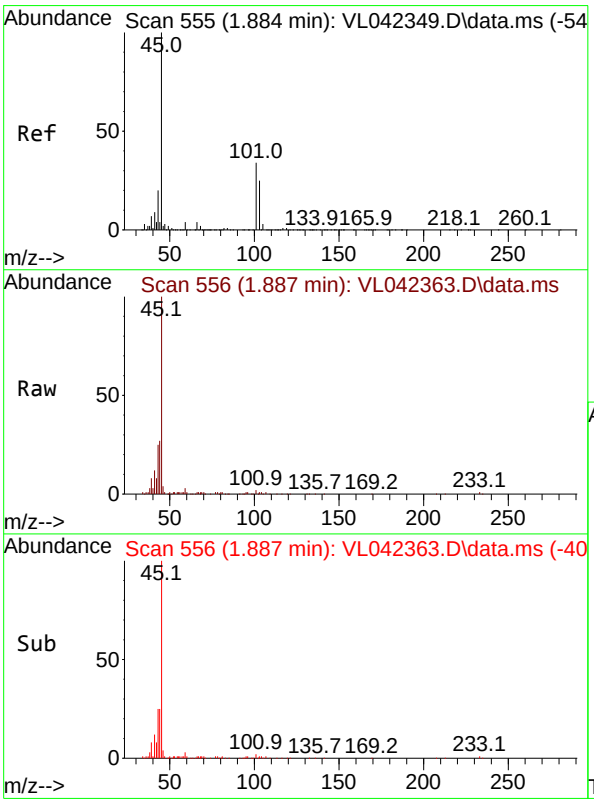
#17
tert-Butyl alcohol
Concen: 0.133 ppbv
RT: 2.046 min Scan# 6
Delta R.T. 0.006 min
Lab File: VL042363.D
Acq: 17 Apr 2025 18:24

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-3-3252025

Tgt Ion: 59 Resp: 3174

Ion	Ratio	Lower	Upper
59	100		
57	33.4	8.7	13.1#

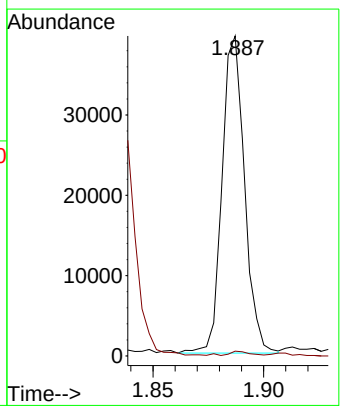


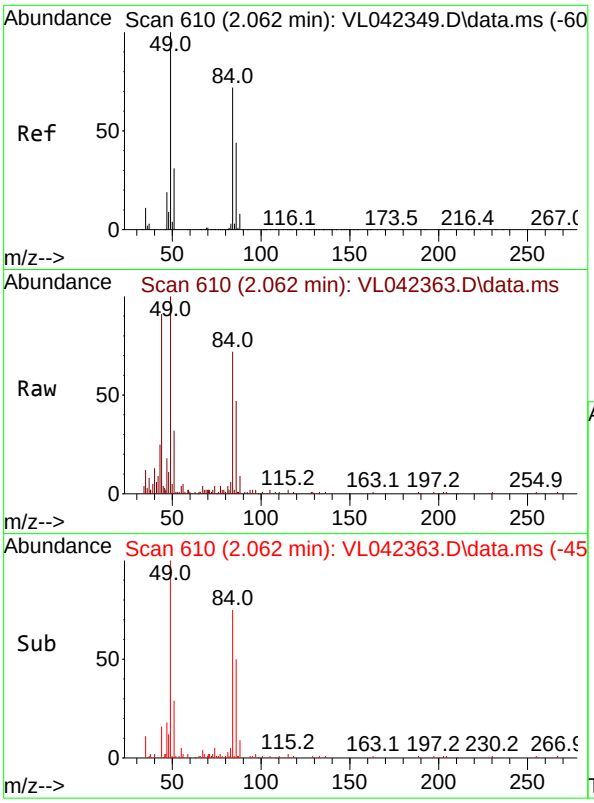


#19
Isopropyl Alcohol
Concen: 2.603 ppbv
RT: 1.887 min Scan# 556
Delta R.T. 0.003 min
Lab File: VL042363.D
Acq: 17 Apr 2025 18:24

Tgt Ion: 45 Resp: 27920

Ion	Ratio	Lower	Upper
45	100		
58	84.1	34.5	51.7#



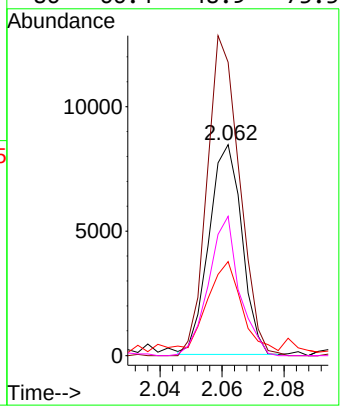


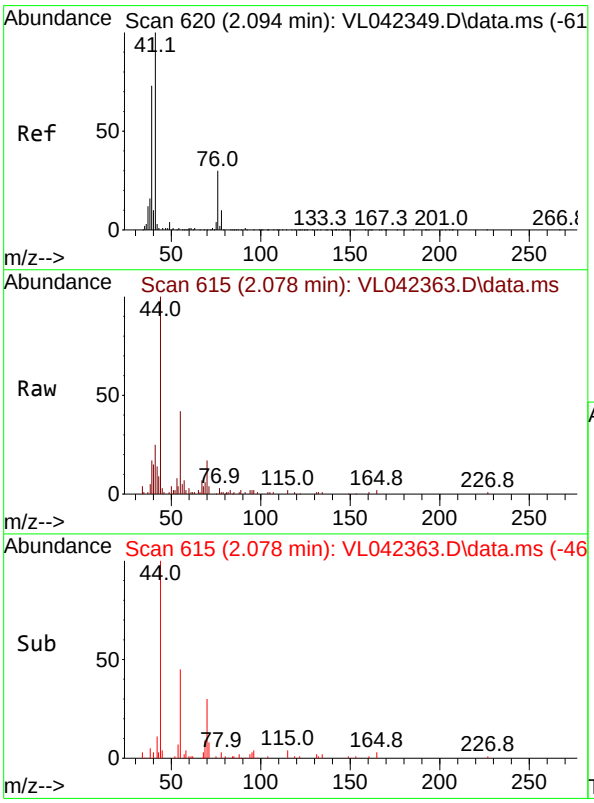
#20
Methylene Chloride
Concen: 0.822 ppbv
RT: 2.062 min Scan# 61
Delta R.T. -0.000 min
Lab File: VL042363.D
Acq: 17 Apr 2025 18:24

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-3-3252025

Tgt Ion: 84 Resp: 6217

Ion	Ratio	Lower	Upper
84	100		
49	139.8	111.6	167.4
51	42.4	35.1	52.7
86	66.4	48.9	73.3

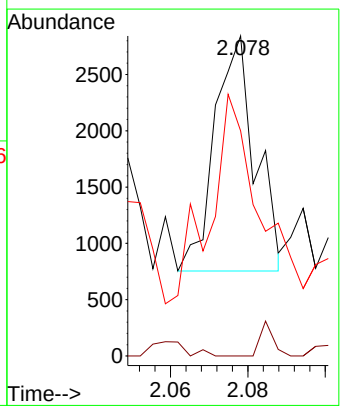


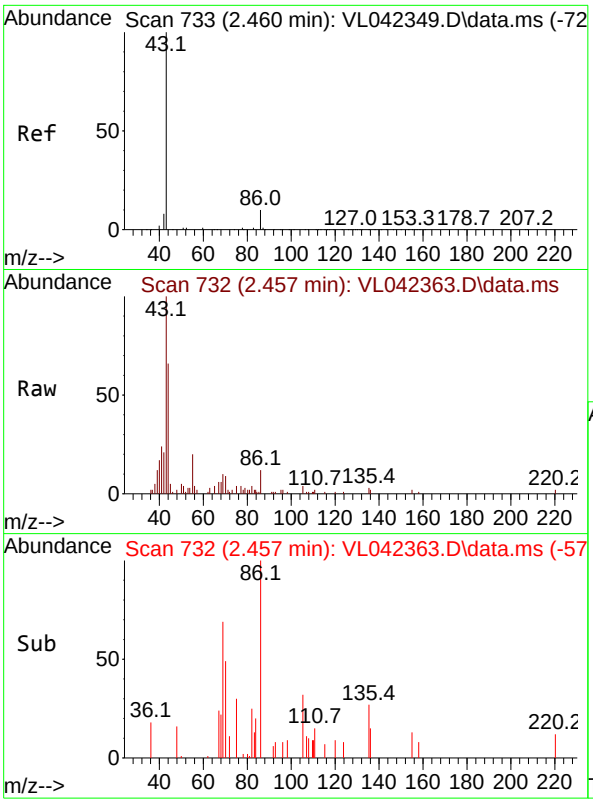


#21
Allyl Chloride
Concen: 0.114 ppbv
RT: 2.078 min Scan# 615
Delta R.T. -0.016 min
Lab File: VL042363.D
Acq: 17 Apr 2025 18:24

Tgt Ion: 41 Resp: 1524

Ion	Ratio	Lower	Upper
41	100		
76	0.0	24.8	37.2#
39	111.5	60.6	90.8#



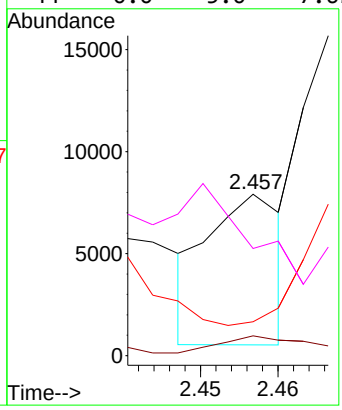


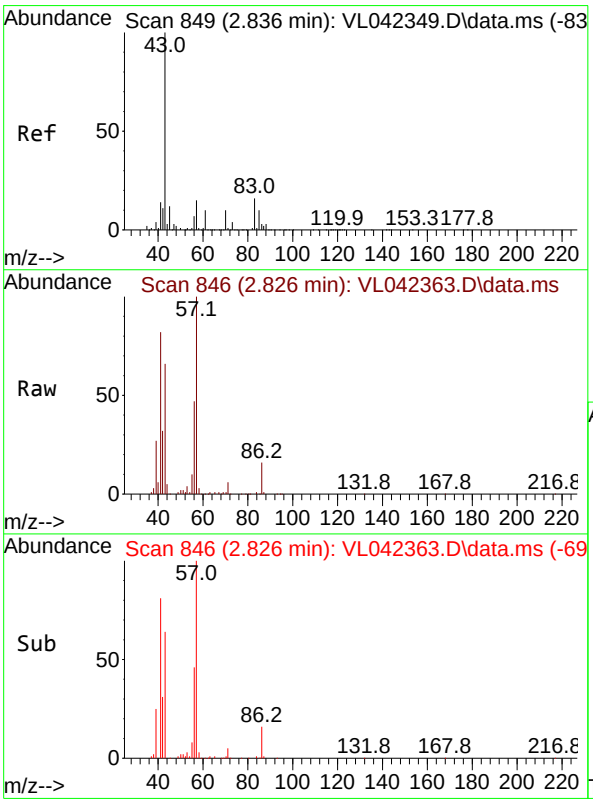
#23
Vinyl Acetate
Concen: 0.625 ppbv
RT: 2.457 min Scan# 7
Delta R.T. -0.003 min
Lab File: VL042363.D
Acq: 17 Apr 2025 18:24

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-3-3252025

Tgt Ion: 43 Resp: 4881

Ion	Ratio	Lower	Upper
43	100		
86	28.9	6.5	9.7#
42	0.0	7.8	11.8#
44	0.0	5.0	7.6#

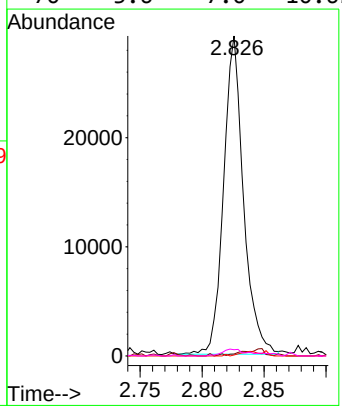


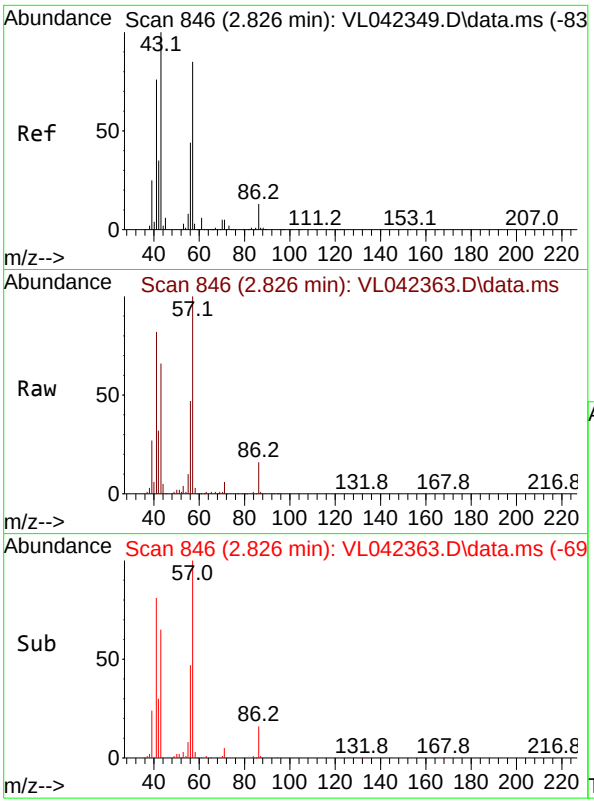


#25
Ethyl Acetate
Concen: 0.685 ppbv
RT: 2.826 min Scan# 846
Delta R.T. -0.010 min
Lab File: VL042363.D
Acq: 17 Apr 2025 18:24

Tgt Ion: 43 Resp: 32622

Ion	Ratio	Lower	Upper
43	100		
45	2.8	8.3	12.5#
61	1.7	7.3	10.9#
70	3.6	7.0	10.6#



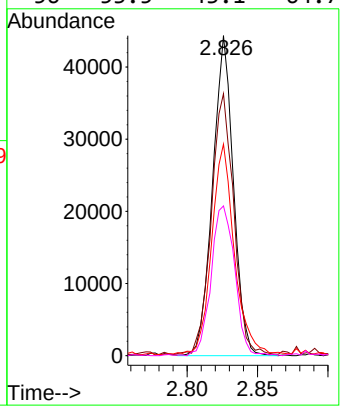


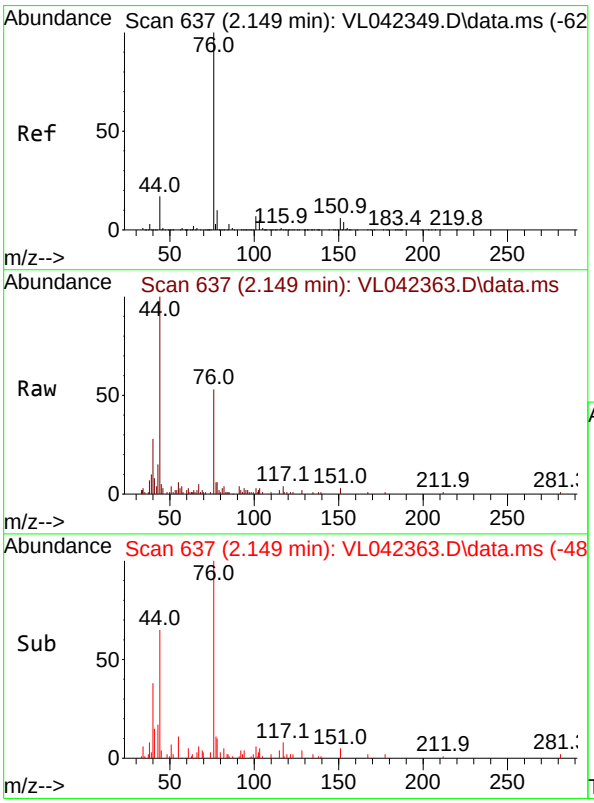
#26
Hexane
Concen: 2.369 ppbv
RT: 2.826 min Scan# 84
Delta R.T. -0.000 min
Lab File: VL042363.D
Acq: 17 Apr 2025 18:24

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-3-3252025

Tgt Ion: 57 Resp: 45627

Ion	Ratio	Lower	Upper
57	100		
41	87.3	77.9	116.9
43	74.0	208.4	312.6#
56	53.5	43.1	64.7

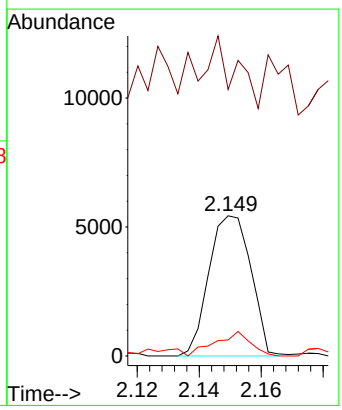


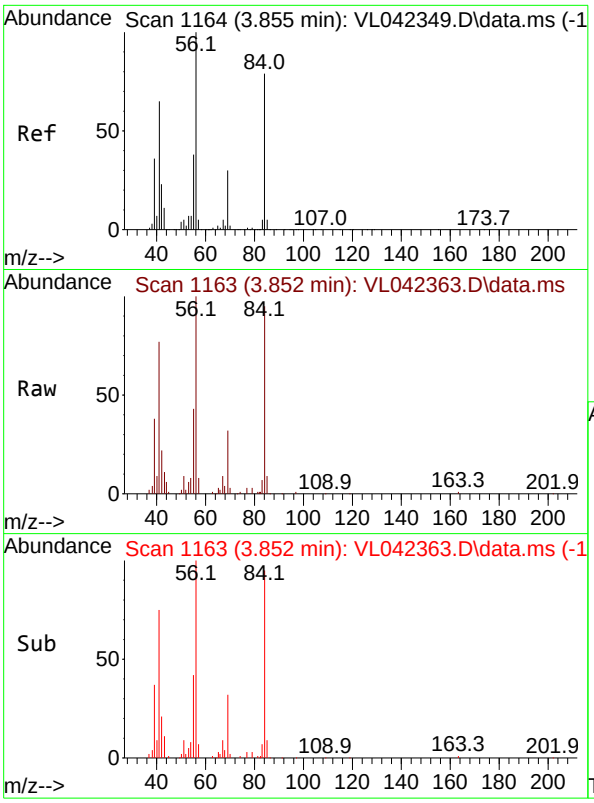


#27
Carbon Disulfide
Concen: 0.249 ppbv
RT: 2.149 min Scan# 637
Delta R.T. -0.000 min
Lab File: VL042363.D
Acq: 17 Apr 2025 18:24

Tgt Ion: 76 Resp: 5126

Ion	Ratio	Lower	Upper
76	100		
44	690.9	15.5	23.3#
78	20.0	9.3	13.9#



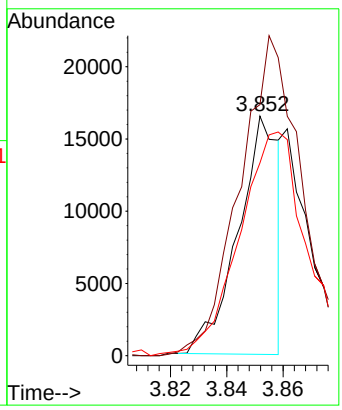


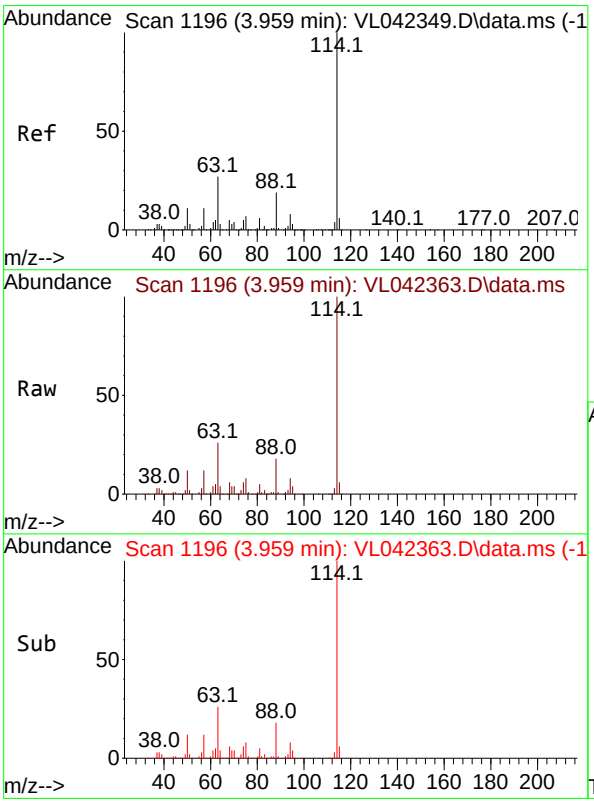
#30
Cyclohexane
Concen: 1.053 ppbv
RT: 3.852 min Scan# 11
Delta R.T. -0.003 min
Lab File: VL042363.D
Acq: 17 Apr 2025 18:24

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-3-3252025

Tgt Ion: 84 Resp: 16394

Ion	Ratio	Lower	Upper
84	100		
56	0.0	101.0	151.4#
41	0.0	67.4	101.0#

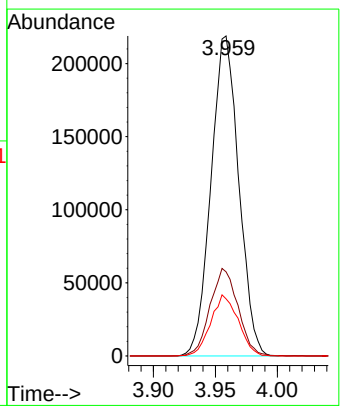


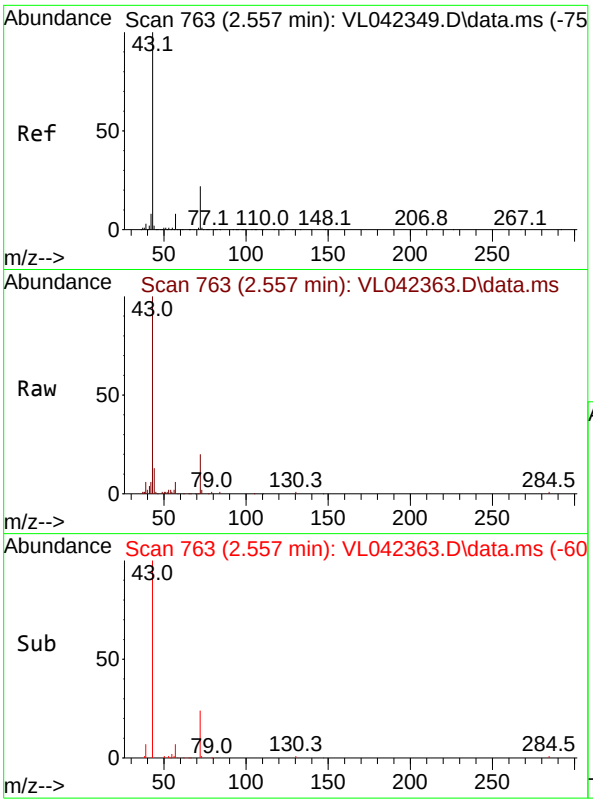


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.959 min Scan# 1196
Delta R.T. -0.000 min
Lab File: VL042363.D
Acq: 17 Apr 2025 18:24

Tgt Ion:114 Resp: 342044

Ion	Ratio	Lower	Upper
114	100		
63	27.4	21.8	32.6
88	18.9	15.5	23.3



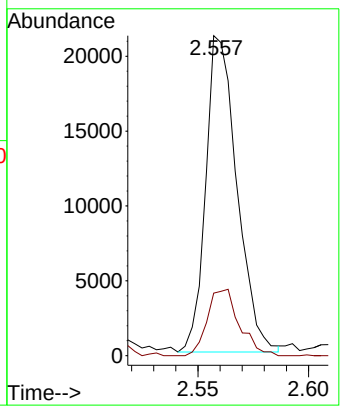


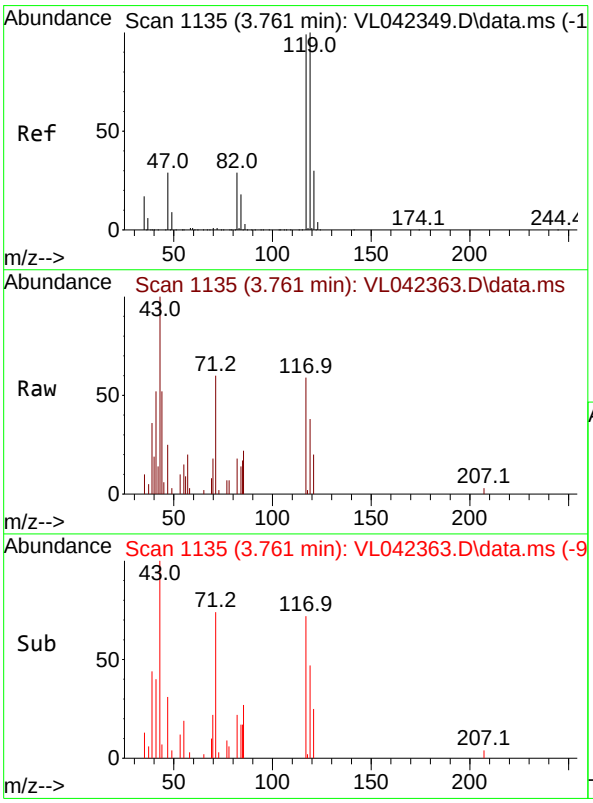
#34
2-Butanone
Concen: 0.766 ppbv
RT: 2.557 min Scan# 7
Delta R.T. -0.000 min
Lab File: VL042363.D
Acq: 17 Apr 2025 18:24

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-3-3252025

Tgt Ion: 43 Resp: 20715

Ion	Ratio	Lower	Upper
43	100		
72	21.5	18.2	27.2

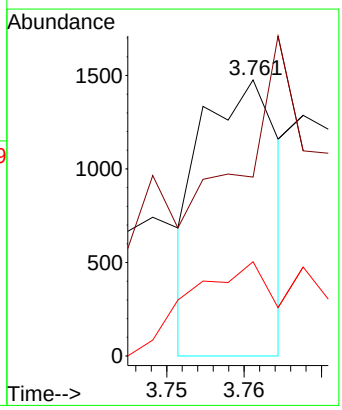


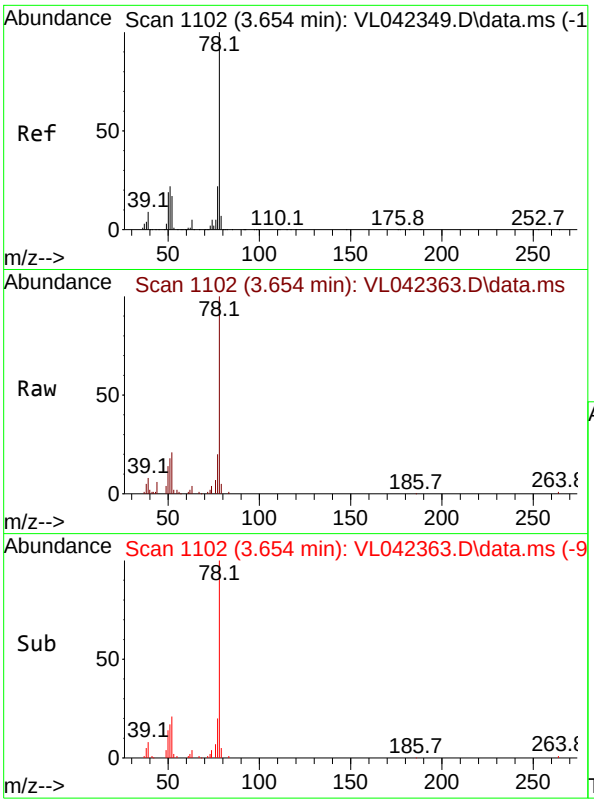


#35
Carbon Tetrachloride
Concen: 0.033 ppbv
RT: 3.761 min Scan# 1135
Delta R.T. -0.000 min
Lab File: VL042363.D
Acq: 17 Apr 2025 18:24

Tgt Ion:117 Resp: 1016

Ion	Ratio	Lower	Upper
117	100		
119	32.3	80.5	120.7#
121	29.1	24.2	36.2



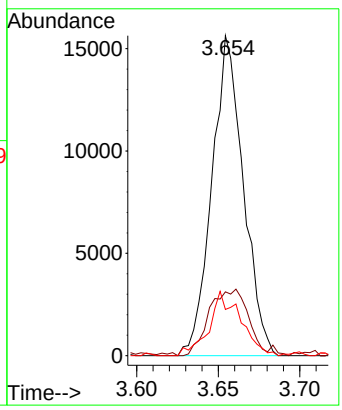


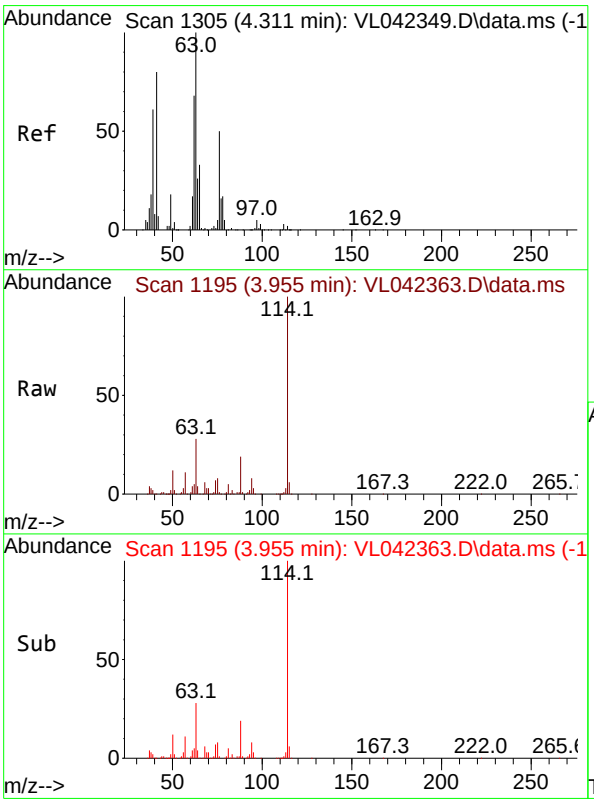
#36
Benzene
Concen: 0.569 ppbv
RT: 3.654 min Scan# 11
Delta R.T. -0.000 min
Lab File: VL042363.D
Acq: 17 Apr 2025 18:24

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-3-3252025

Tgt Ion: 78 Resp: 20999

Ion	Ratio	Lower	Upper
78	100		
77	20.0	17.4	26.0
50	14.4	15.5	23.3#

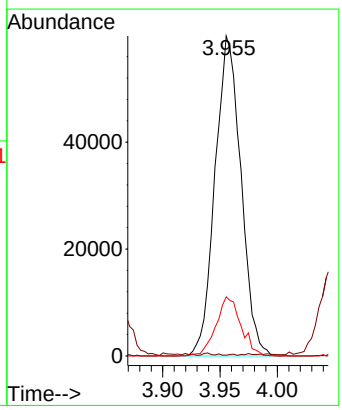


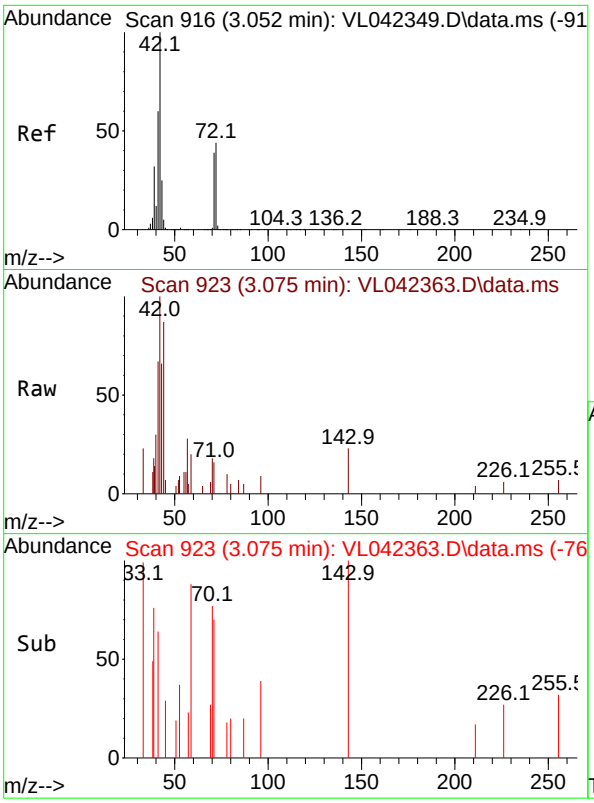


#39
1,2-Dichloropropane
Concen: 6.827 ppbv
RT: 3.955 min Scan# 1195
Delta R.T. -0.356 min
Lab File: VL042363.D
Acq: 17 Apr 2025 18:24

Tgt Ion: 63 Resp: 93853

Ion	Ratio	Lower	Upper
63	100		
41	0.0	64.2	96.2#
62	18.5	54.3	81.5#



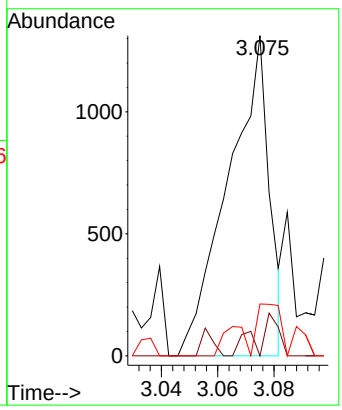


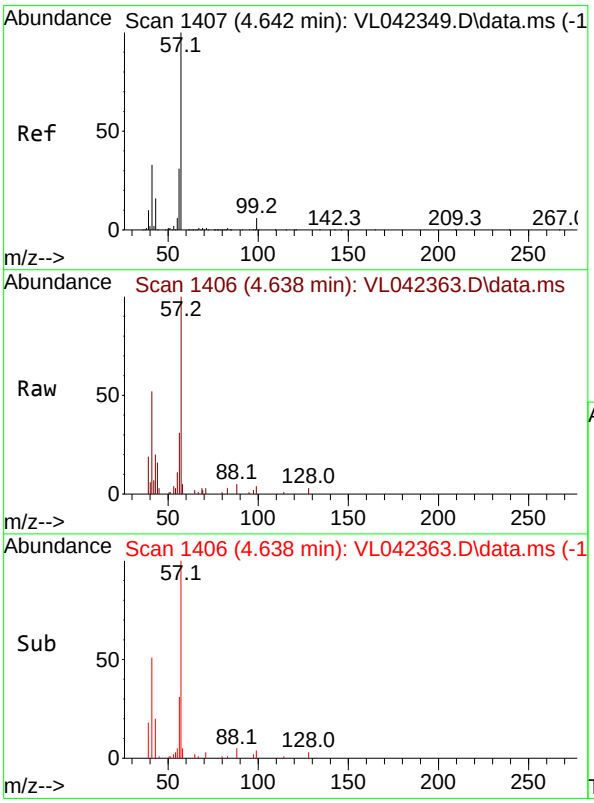
#41
Tetrahydrofuran
Concen: 0.084 ppbv
RT: 3.075 min Scan# 9
Delta R.T. 0.023 min
Lab File: VL042363.D
Acq: 17 Apr 2025 18:24

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-3-3252025

Tgt Ion: 42 Resp: 1322

Ion	Ratio	Lower	Upper
42	100		
72	0.0	32.3	48.5#
71	17.1	31.4	47.2#

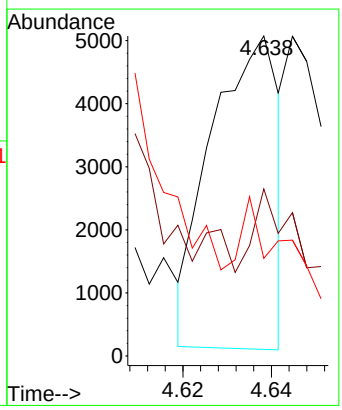


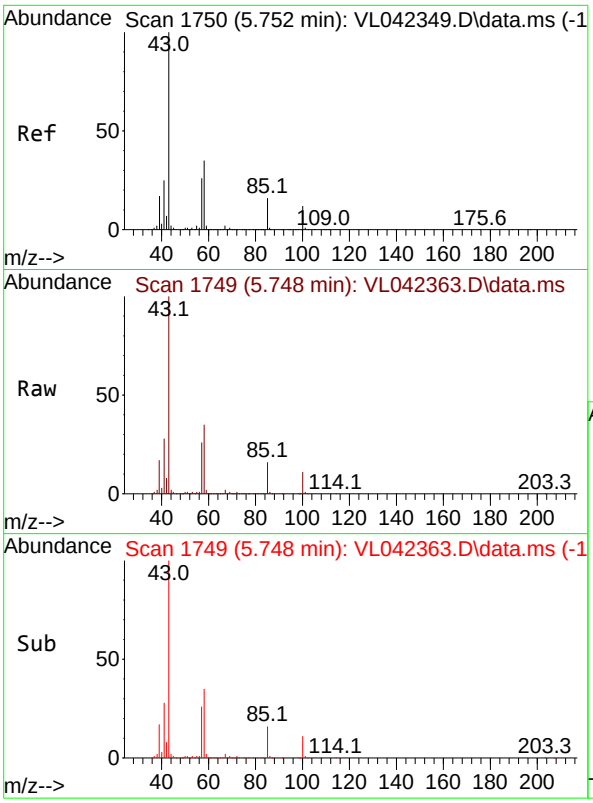


#44
2,2,4-Trimethylpentane
Concen: 0.082 ppbv
RT: 4.638 min Scan# 1406
Delta R.T. -0.003 min
Lab File: VL042363.D
Acq: 17 Apr 2025 18:24

Tgt Ion: 57 Resp: 5226

Ion	Ratio	Lower	Upper
57	100		
41	0.0	27.2	40.8#
56	0.0	25.7	38.5#



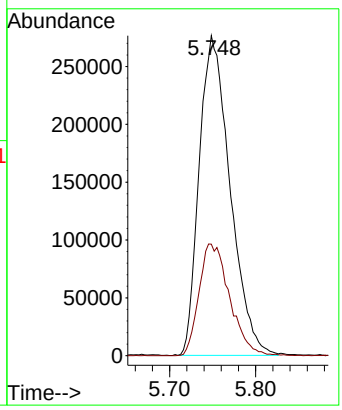


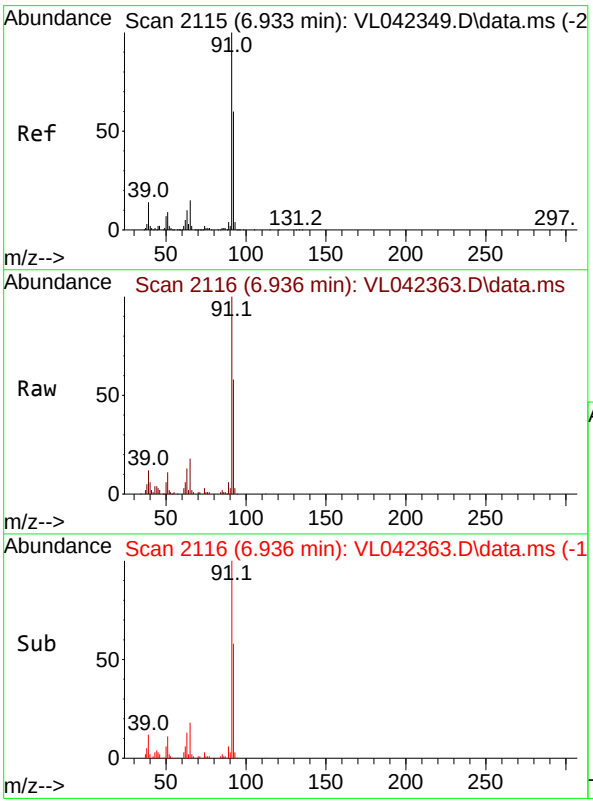
#50
4-Methyl-2-Pentanone
Concen: 15.336 ppbv
RT: 5.748 min Scan# 1
Delta R.T. -0.003 min
Lab File: VL042363.D
Acq: 17 Apr 2025 18:24

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-3-3252025

Tgt Ion: 43 Resp: 689390

Ion	Ratio	Lower	Upper
43	100		
58	34.7	28.6	43.0

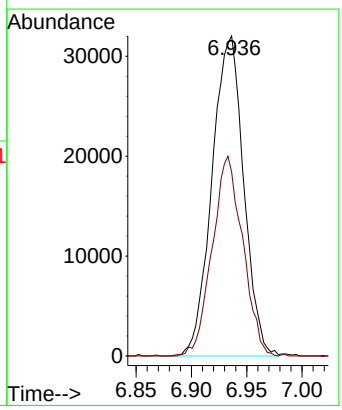


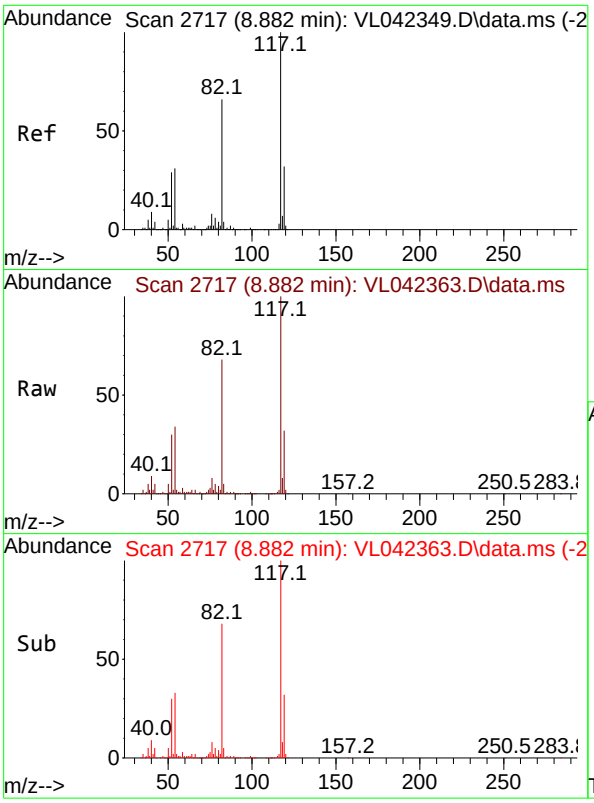


#53
Toluene
Concen: 1.441 ppbv
RT: 6.936 min Scan# 2116
Delta R.T. 0.003 min
Lab File: VL042363.D
Acq: 17 Apr 2025 18:24

Tgt Ion: 91 Resp: 63791

Ion	Ratio	Lower	Upper
91	100		
92	60.3	48.2	72.4



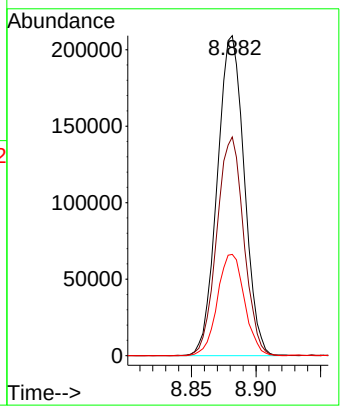


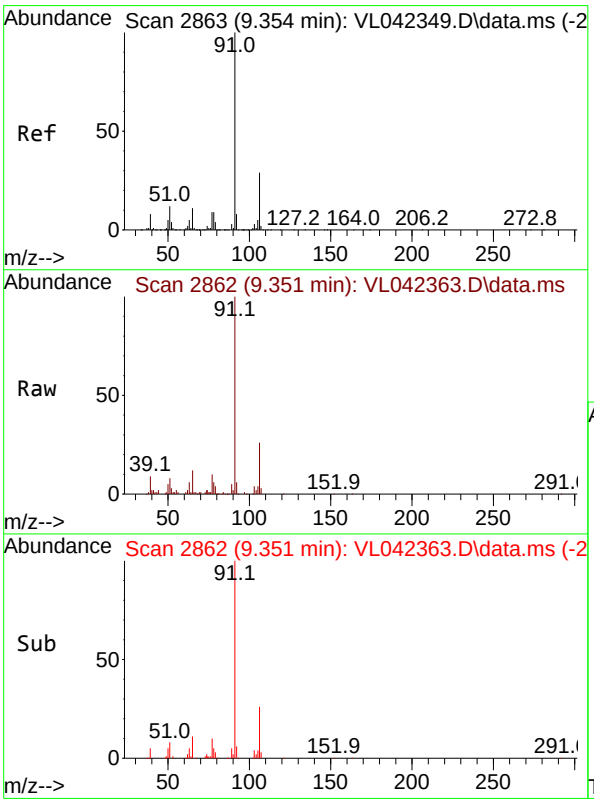
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.882 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL042363.D
Acq: 17 Apr 2025 18:24

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-3-3252025

Tgt Ion:117 Resp: 304398

Ion	Ratio	Lower	Upper
117	100		
82	68.4	57.8	86.6
119	31.9	25.2	37.8

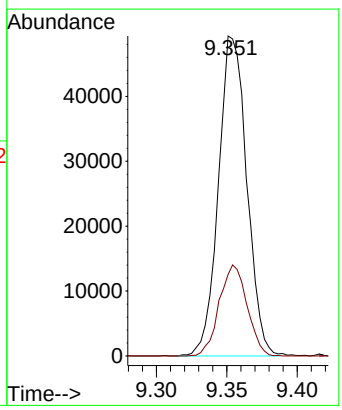


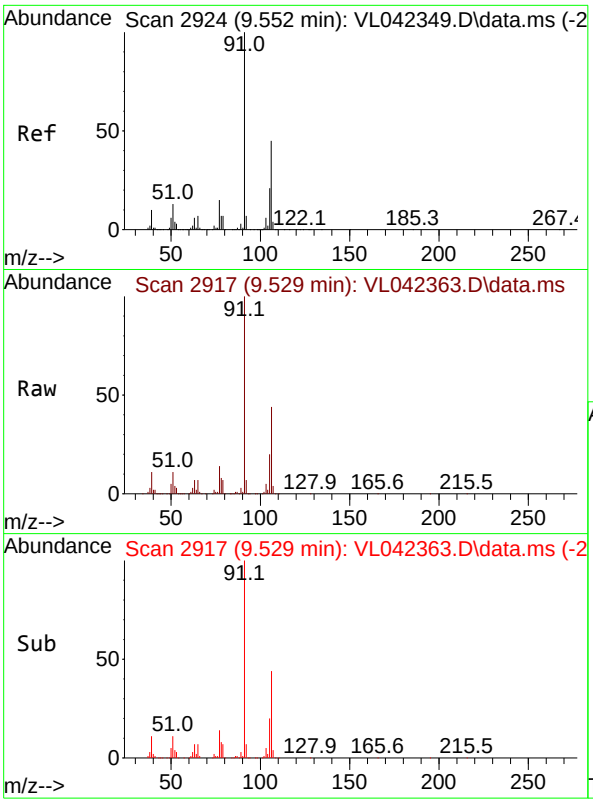


#58
Ethyl Benzene
Concen: 1.147 ppbv
RT: 9.351 min Scan# 2862
Delta R.T. -0.003 min
Lab File: VL042363.D
Acq: 17 Apr 2025 18:24

Tgt Ion: 91 Resp: 69152

Ion	Ratio	Lower	Upper
91	100		
106	25.5	23.0	34.4



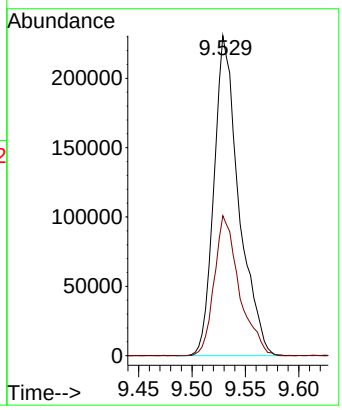


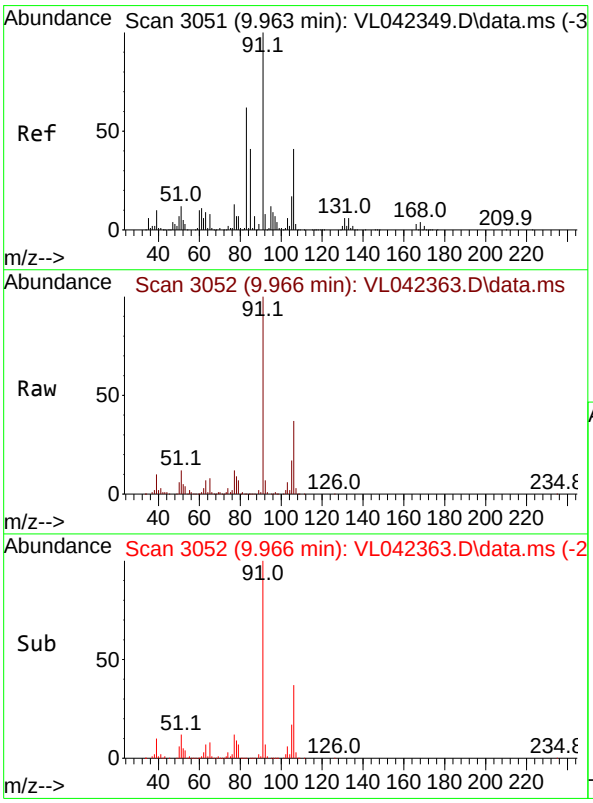
#59
m/p-Xylene
Concen: 7.695 ppbv
RT: 9.529 min Scan# 2
Delta R.T. -0.023 min
Lab File: VL042363.D
Acq: 17 Apr 2025 18:24

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-3-3252025

Tgt Ion: 91 Resp: 373837

Ion	Ratio	Lower	Upper
91	100		
106	44.0	35.4	53.2

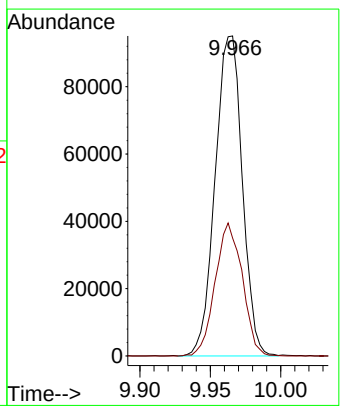


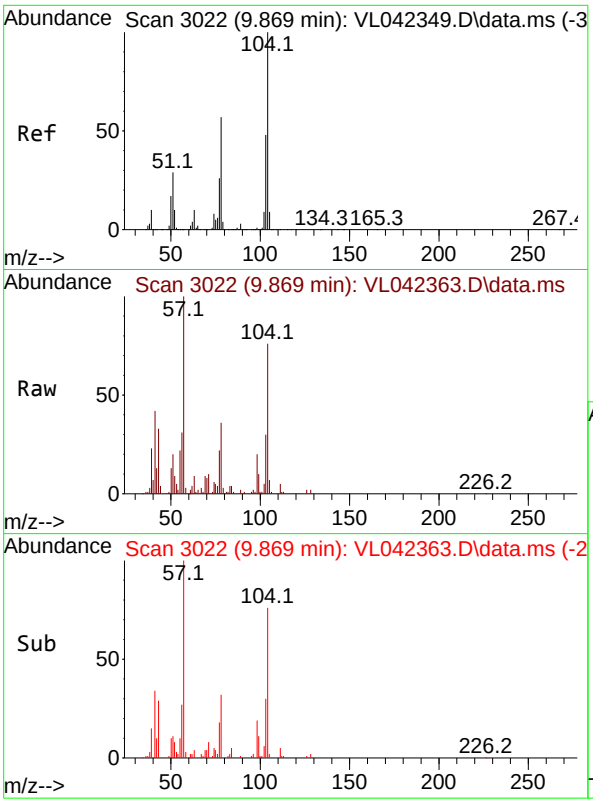


#60
o-Xylene
Concen: 2.615 ppbv
RT: 9.966 min Scan# 3052
Delta R.T. 0.003 min
Lab File: VL042363.D
Acq: 17 Apr 2025 18:24

Tgt Ion: 91 Resp: 127919

Ion	Ratio	Lower	Upper
91	100		
106	41.4	21.1	63.4



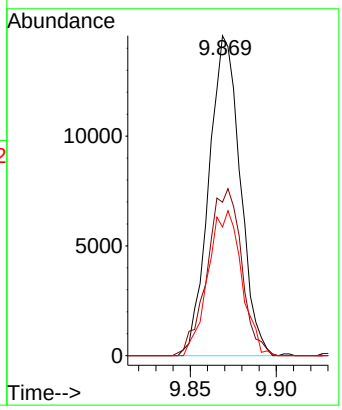


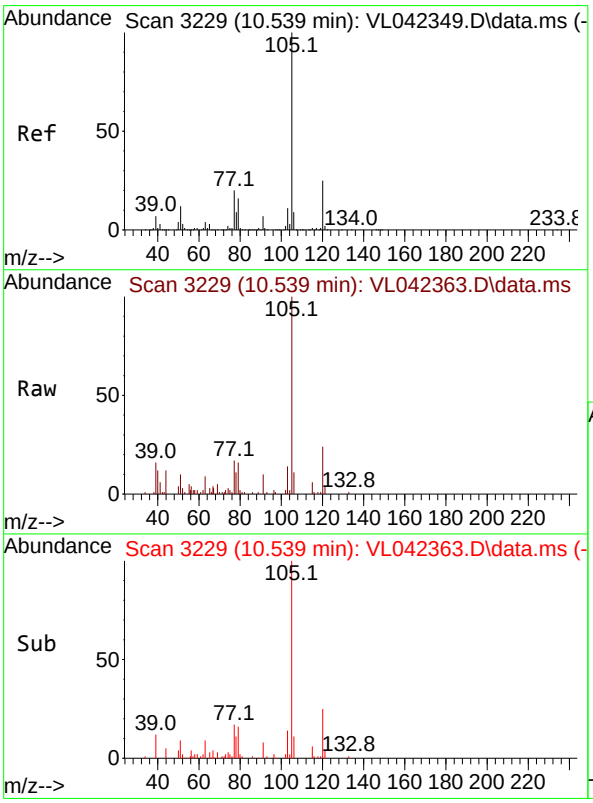
#61
Styrene
Concen: 0.791 ppbv
RT: 9.869 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042363.D
Acq: 17 Apr 2025 18:24

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-3-3252025

Tgt Ion:104 Resp: 18463

Ion	Ratio	Lower	Upper
104	100		
78	56.7	44.6	66.8
103	48.3	37.4	56.0

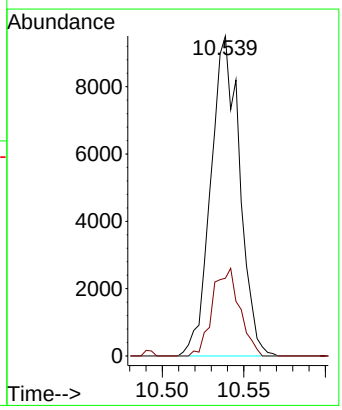


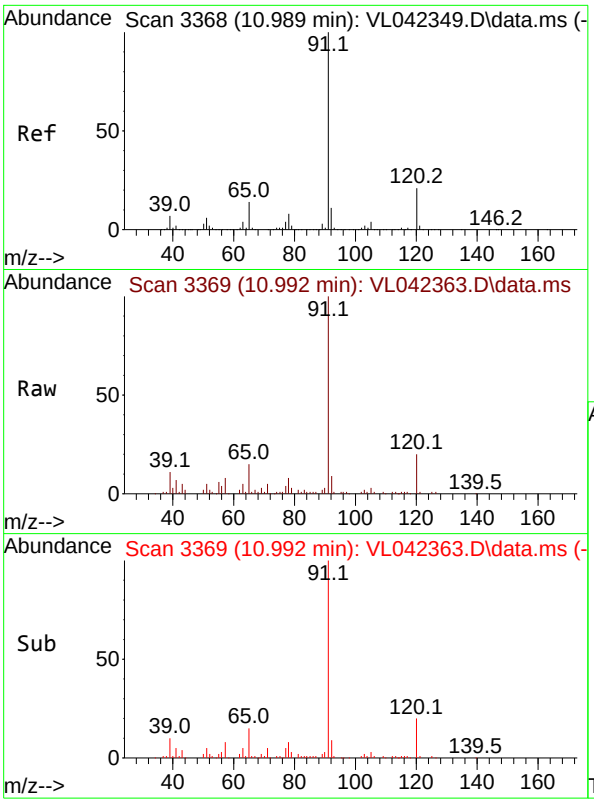


#62
Isopropylbenzene
Concen: 0.163 ppbv
RT: 10.539 min Scan# 3229
Delta R.T. -0.000 min
Lab File: VL042363.D
Acq: 17 Apr 2025 18:24

Tgt Ion:105 Resp: 11682

Ion	Ratio	Lower	Upper
105	100		
120	25.8	19.8	29.8



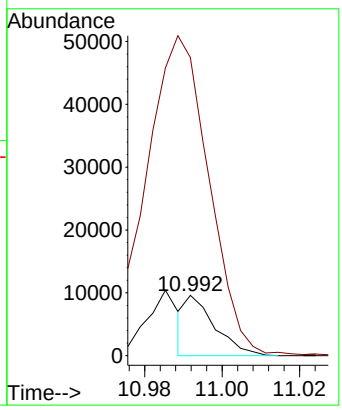


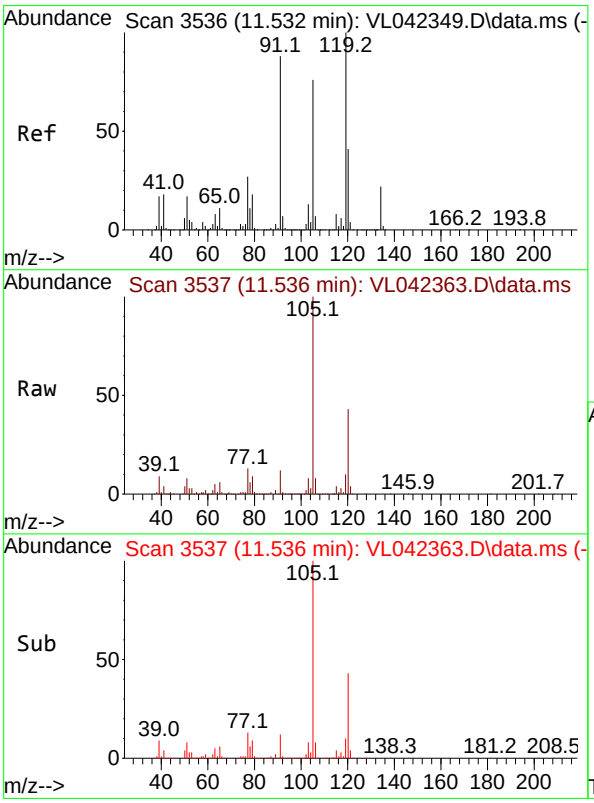
#64
n-propylbenzene
Concen: 0.283 ppbv
RT: 10.992 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042363.D
Acq: 17 Apr 2025 18:24

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-3-3252025

Tgt Ion:120 Resp: 5104

Ion	Ratio	Lower	Upper
120	100		
91	1138.7	392.4	588.6#

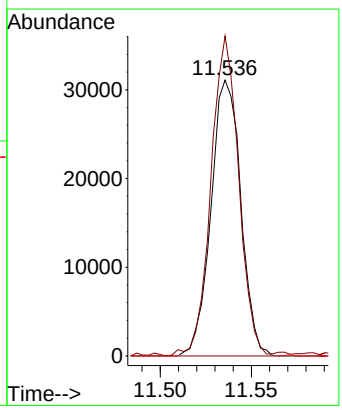


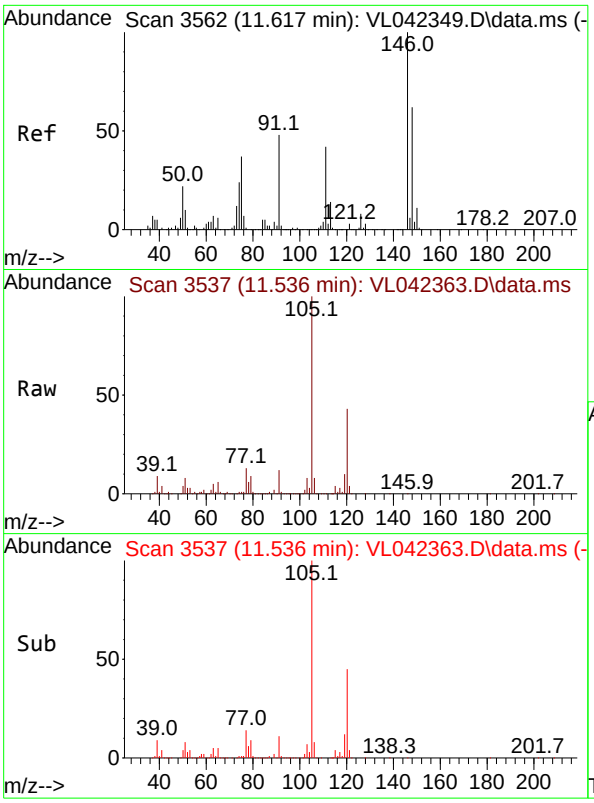


#65
tert-Butylbenzene
Concen: 0.536 ppbv
RT: 11.536 min Scan# 3537
Delta R.T. 0.003 min
Lab File: VL042363.D
Acq: 17 Apr 2025 18:24

Tgt Ion:119 Resp: 35413

Ion	Ratio	Lower	Upper
119	100		
91	110.1	74.6	111.8
134	0.0	18.8	28.2#



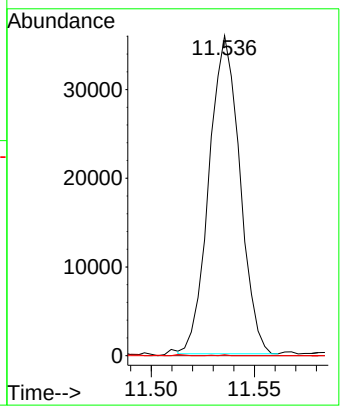


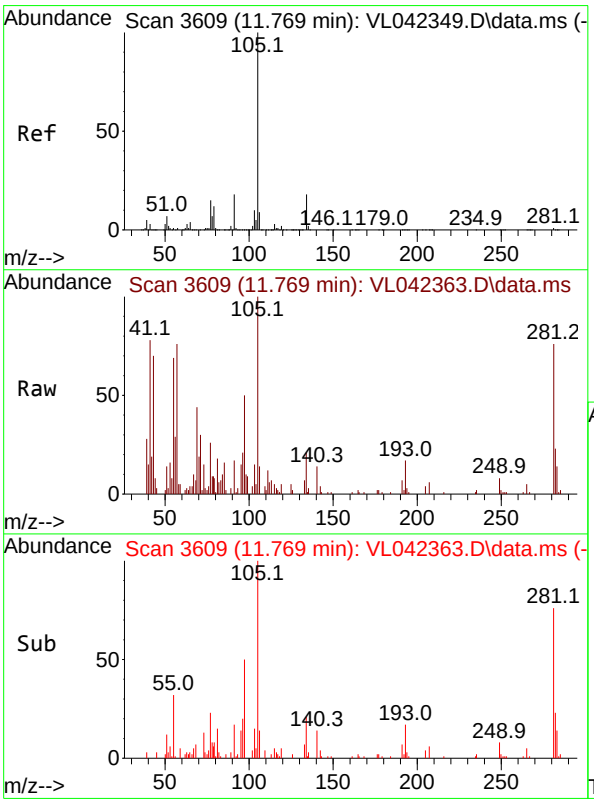
#66
Benzyl Chloride
Concen: 5.131 ppbv
RT: 11.536 min Scan# 3
Delta R.T. -0.081 min
Lab File: VL042363.D
Acq: 17 Apr 2025 18:24

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-3-3252025

Tgt Ion: 91 Resp: 37225

Ion	Ratio	Lower	Upper
91	100		
126	0.0	11.8	17.6#
128	0.2	4.5	6.7#

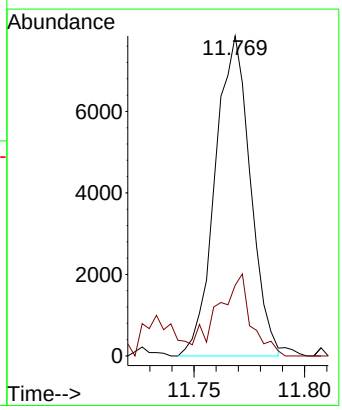


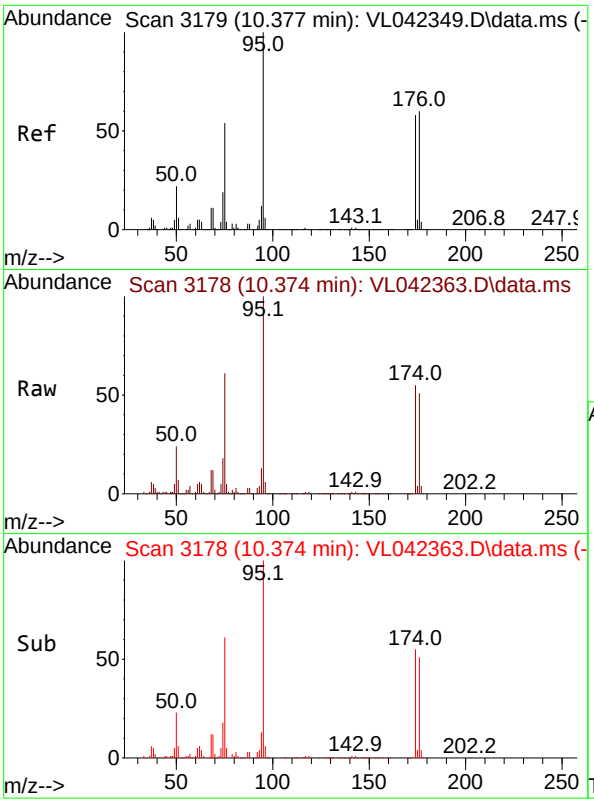


#67
sec-Butylbenzene
Concen: 0.095 ppbv
RT: 11.769 min Scan# 3609
Delta R.T. -0.000 min
Lab File: VL042363.D
Acq: 17 Apr 2025 18:24

Tgt Ion:105 Resp: 8682

Ion	Ratio	Lower	Upper
105	100		
134	21.6	14.6	21.8



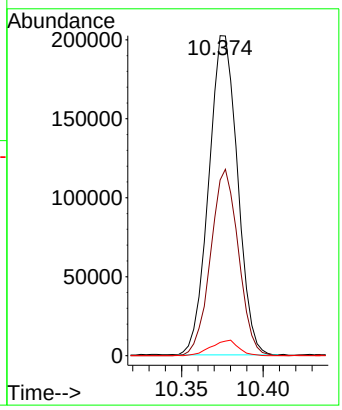


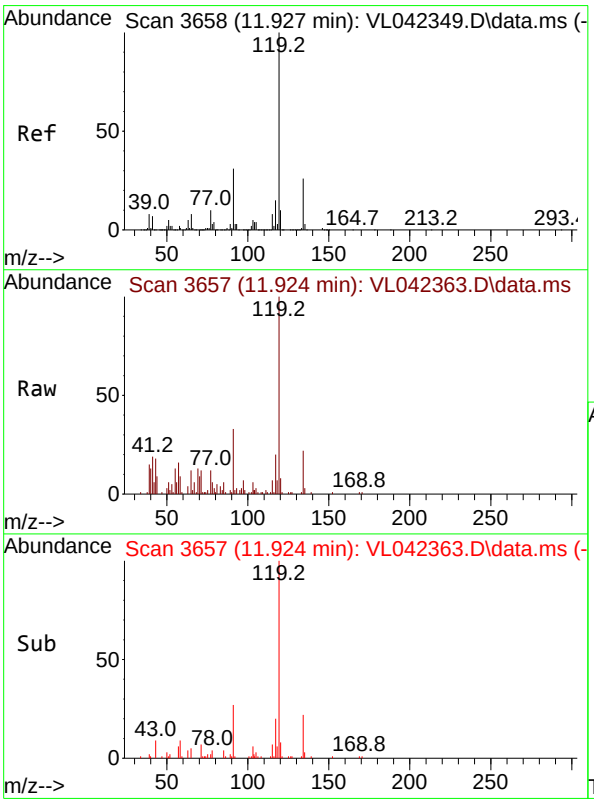
#68
1-Bromo-4-Fluorobenzene
Concen: 9.920 ppbv
RT: 10.374 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042363.D
Acq: 17 Apr 2025 18:24

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-3-3252025

Tgt Ion: 95 Resp: 248134

Ion	Ratio	Lower	Upper
95	100		
174	56.5	48.5	72.7
175	4.6	3.7	5.5

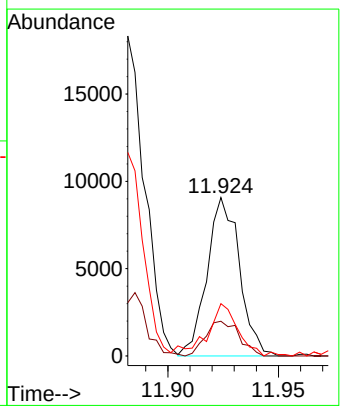


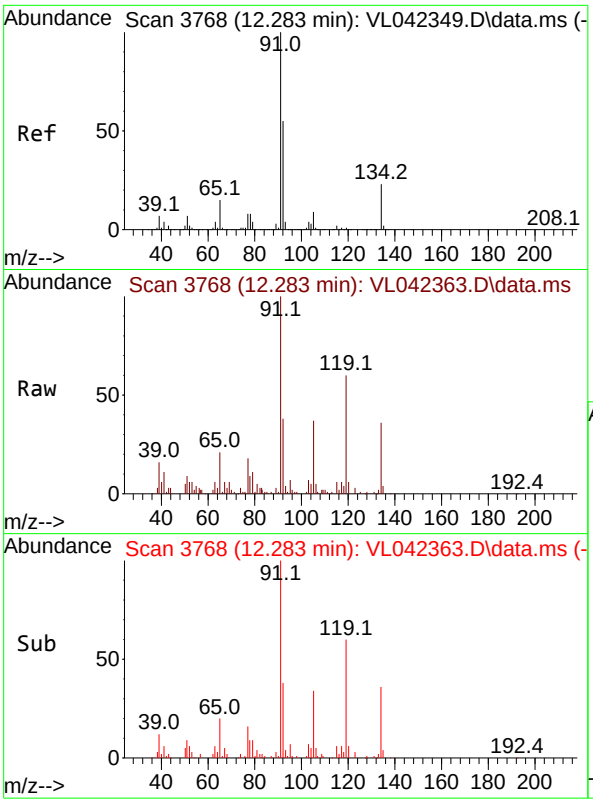


#69
p-Isopropyltoluene
Concen: 0.116 ppbv
RT: 11.924 min Scan# 3657
Delta R.T. -0.003 min
Lab File: VL042363.D
Acq: 17 Apr 2025 18:24

Tgt Ion:119 Resp: 9270

Ion	Ratio	Lower	Upper
119	100		
134	22.6	20.0	30.0
91	31.0	24.4	36.6



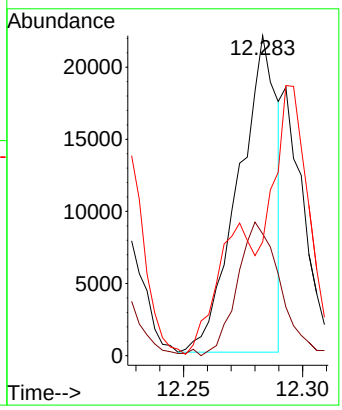


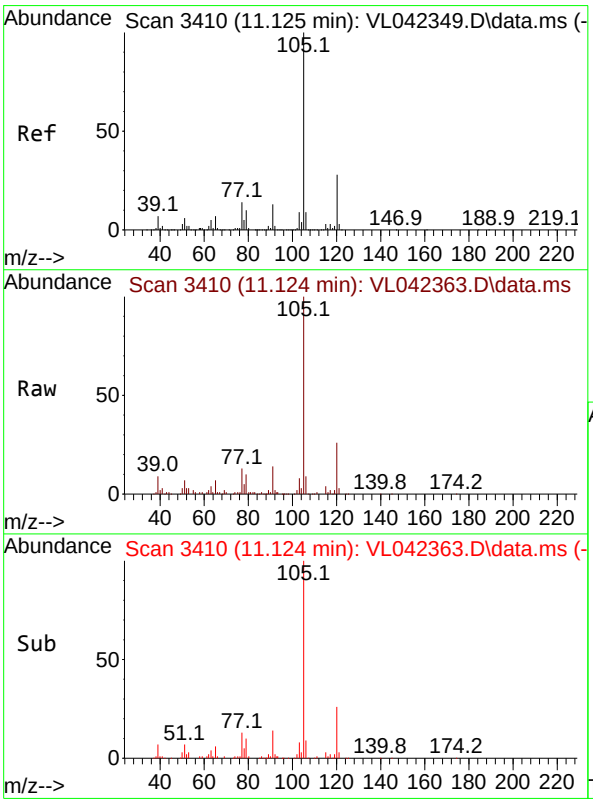
#70
n-Butylbenzene
Concen: 0.297 ppbv
RT: 12.283 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042363.D
Acq: 17 Apr 2025 18:24

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-3-3252025

Tgt Ion: 91 Resp: 24716

Ion	Ratio	Lower	Upper
91	100		
92	48.6	44.2	66.4
134	0.0	18.2	27.4#

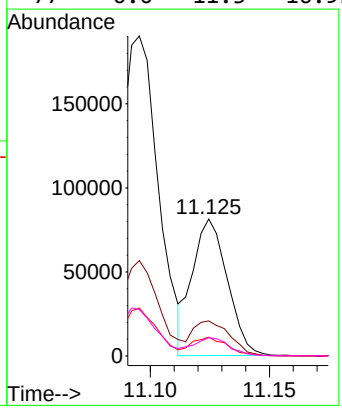


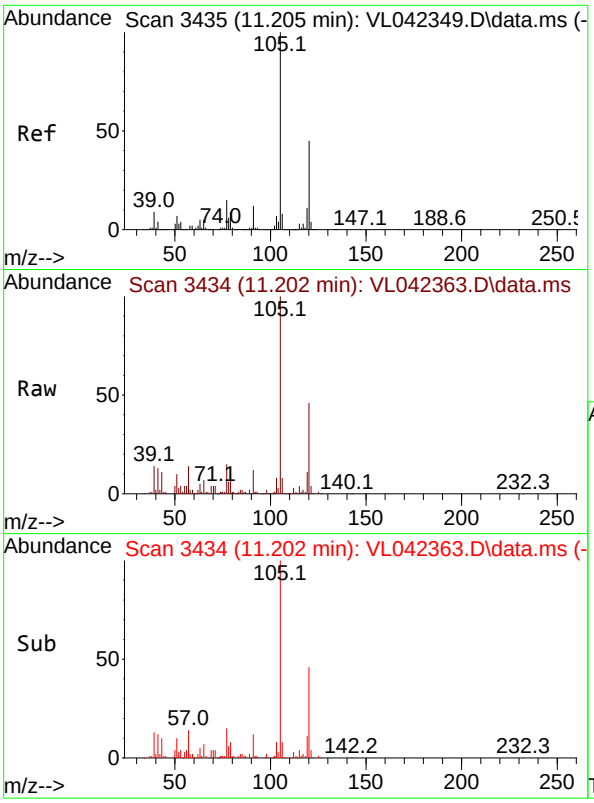


#72
4-Ethyltoluene
Concen: 1.390 ppbv
RT: 11.124 min Scan# 3410
Delta R.T. -0.000 min
Lab File: VL042363.D
Acq: 17 Apr 2025 18:24

Tgt Ion:105 Resp: 83127

Ion	Ratio	Lower	Upper
105	100		
120	0.0	23.2	34.8#
91	0.0	10.4	15.6#
77	0.0	11.3	16.9#



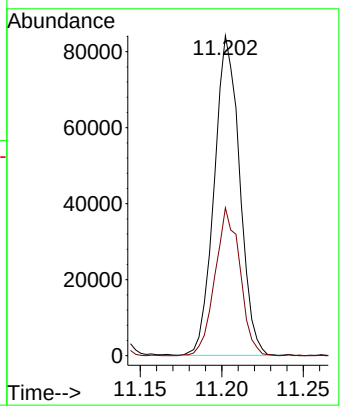


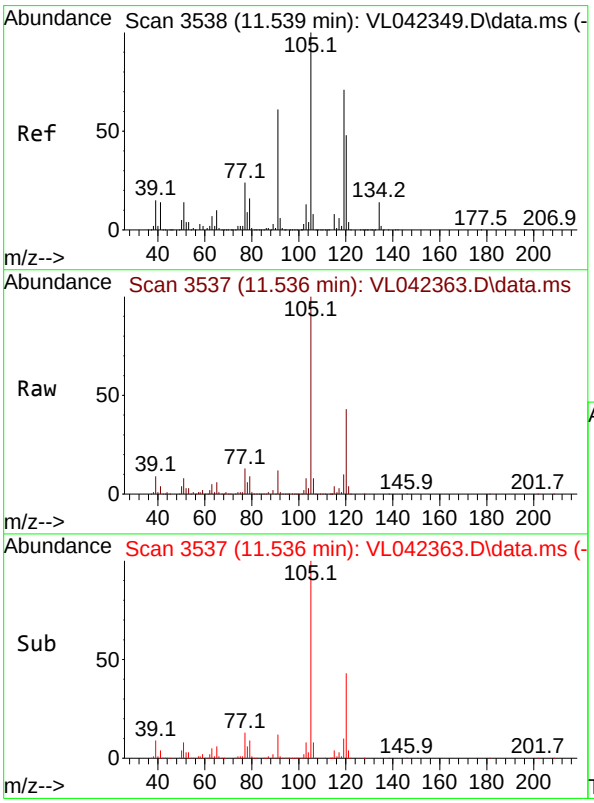
#73
1,3,5-Trimethylbenzene
Concen: 1.724 ppbv
RT: 11.202 min Scan# 34
Delta R.T. -0.003 min
Lab File: VL042363.D
Acq: 17 Apr 2025 18:24

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-3-3252025

Tgt Ion:105 Resp: 91013

Ion	Ratio	Lower	Upper
105	100		
120	46.2	35.6	53.4

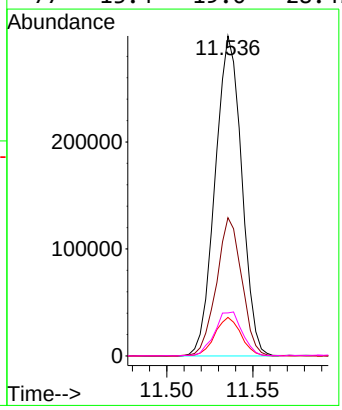


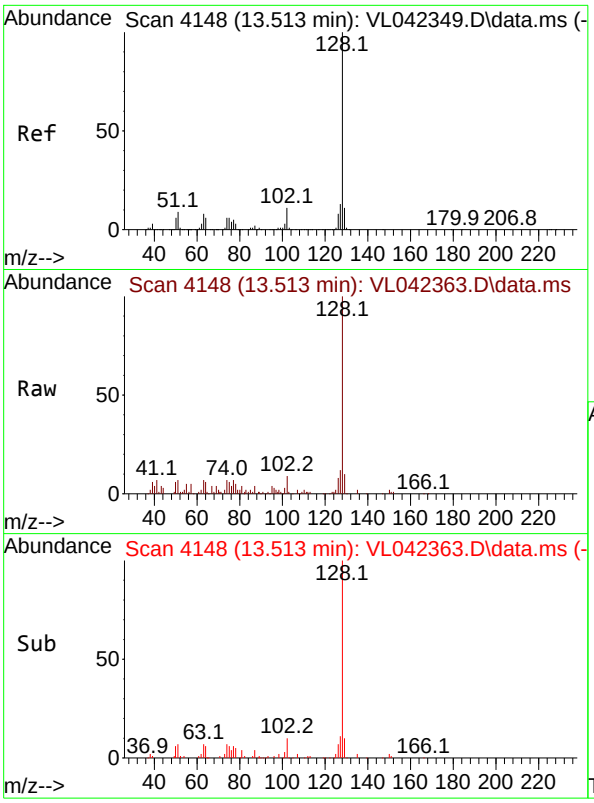


#74
1,2,4-Trimethylbenzene
Concen: 5.205 ppbv
RT: 11.536 min Scan# 3537
Delta R.T. -0.003 min
Lab File: VL042363.D
Acq: 17 Apr 2025 18:24

Tgt Ion:105 Resp: 321031

Ion	Ratio	Lower	Upper
105	100		
120	43.2	38.1	57.1
91	12.0	48.8	73.2#
77	13.4	19.0	28.4#



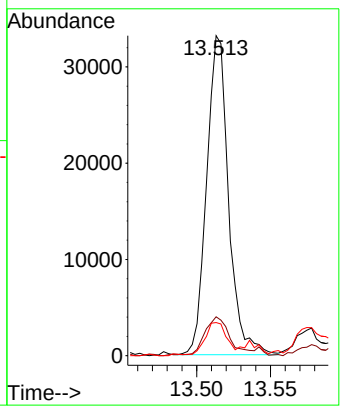


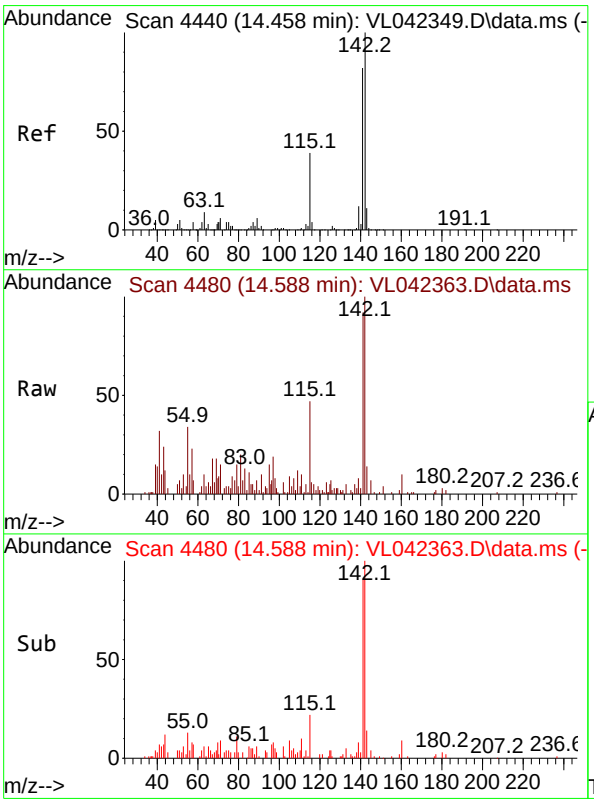
#79
Naphthalene
Concen: 0.465 ppbv
RT: 13.513 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042363.D
Acq: 17 Apr 2025 18:24

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-3-3252025

Tgt Ion:128 Resp: 34268

Ion	Ratio	Lower	Upper
128	100		
127	11.8	10.6	15.8
129	10.0	8.6	12.8

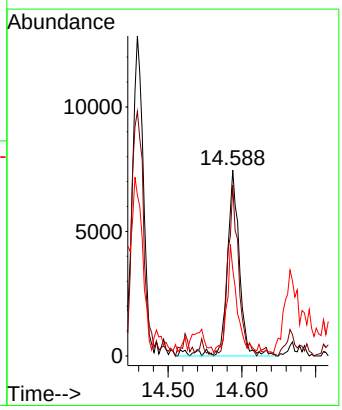




#80
Naphthalene,2-methyl-
Concen: 0.204 ppbv
RT: 14.588 min Scan# 4480
Delta R.T. 0.129 min
Lab File: VL042363.D
Acq: 17 Apr 2025 18:24

Tgt Ion:142 Resp: 8582

Ion	Ratio	Lower	Upper
142	100		
141	83.7	66.8	100.2
115	46.7	33.4	50.2



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042364.D
Acq On : 17 Apr 2025 18:58
Operator : SY/MD
Sample : Q1668-04
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-1-3252025

Quant Time: Apr 18 02:41:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.791	49	117691	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.962	114	343133	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.885	117	303219	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.380	95	247615	9.938	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 99.400%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.499	85	10068	0.484	ppbv		96
3) Chlorodifluoromethane	1.561	51	1577	0.080	ppbv		98
4) Chloromethane	1.535	50	5532	0.672	ppbv		95
6) Bromomethane	1.674	94	247	0.064	ppbv	#	14
7) Chloroethane	1.706	64	318	0.098	ppbv	#	51
8) Dichlorotetrafluoroethane	1.557	85	600	0.034	ppbv	#	80
9) Propene	1.561	41	29021	3.218	ppbv		92
10) Heptane	4.988	43	48989	1.934	ppbv		95
11) Trichlorofluoromethane	1.881	101	4688	0.237	ppbv		90
12) 1,1,2-Trichlorotrifluo...	2.143	101	1147	0.071	ppbv	#	81
13) Ethanol	1.722	45	257475	179.643	ppbv		74
15) Acetone	1.839	43	140628	7.299	ppbv		90
16) 1,3-Butadiene	1.603	39	5791	0.628	ppbv	#	35
17) tert-Butyl alcohol	2.046	59	8687	0.364	ppbv	#	56
19) Isopropyl Alcohol	1.891	45	33526	3.132	ppbv	#	17
20) Methylene Chloride	2.066	84	39273	5.205	ppbv		93
21) Allyl Chloride	2.078	41	1879	0.141	ppbv	#	28
23) Vinyl Acetate	2.477	43	61483	7.884	ppbv	#	46
25) Ethyl Acetate	2.829	43	66917	1.409	ppbv	#	79
26) Hexane	2.829	57	92595	4.817	ppbv	#	33
27) Carbon Disulfide	2.153	76	4485	0.218	ppbv	#	1
29) Chloroform	2.855	83	2558	0.094	ppbv		98
30) Cyclohexane	3.865	84	28679	1.845	ppbv		97
34) 2-Butanone	2.564	43	22380	0.825	ppbv		99
36) Benzene	3.664	78	28409	0.768	ppbv		94
39) 1,2-Dichloropropane	3.965	63	93381	6.771	ppbv	#	22
41) Tetrahydrofuran	3.075	42	1027	0.065	ppbv	#	81
44) 2,2,4-Trimethylpentane	4.648	57	22397	0.350	ppbv	#	72
50) 4-Methyl-2-Pentanone	5.758	43	441281	9.785	ppbv		99
51) 2-Hexanone	7.432	43	3177	0.079	ppbv	#	27
53) Toluene	6.940	91	121585	2.738	ppbv		100
58) Ethyl Benzene	9.358	91	156392	2.603	ppbv		98
59) m/p-Xylene	9.536	91	706391	14.596	ppbv		100
60) o-Xylene	9.969	91	301328	6.183	ppbv		100
61) Styrene	9.872	104	14156	0.609	ppbv		93
62) Isopropylbenzene	10.542	105	25514	0.357	ppbv		97
64) n-propylbenzene	10.992	120	27632	1.536	ppbv		98
65) tert-Butylbenzene	11.539	119	73146	1.112	ppbv	#	68
66) Benzyl Chloride	11.539	91	88151	12.198	ppbv	#	70
67) sec-Butylbenzene	11.772	105	18674	0.204	ppbv		94
69) p-Isopropyltoluene	11.931	119	13409	0.169	ppbv		99
70) n-Butylbenzene	12.287	91	44840	0.542	ppbv	#	86
71) 2-Chlorotoluene	10.866	91	2208	0.039	ppbv		78

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042364.D
Acq On : 17 Apr 2025 18:58
Operator : SY/MD
Sample : Q1668-04
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-1-3252025

Quant Time: Apr 18 02:41:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
72) 4-Ethyltoluene	11.128	105	191371	3.212	ppbv	#	56
73) 1,3,5-Trimethylbenzene	11.209	105	207820	3.951	ppbv		98
74) 1,2,4-Trimethylbenzene	11.539	105	701287	11.415	ppbv	#	64
79) Naphthalene	13.517	128	36056	0.491	ppbv		97
80) Naphthalene,2-methyl-	14.462	142	14016	0.335	ppbv	#	58

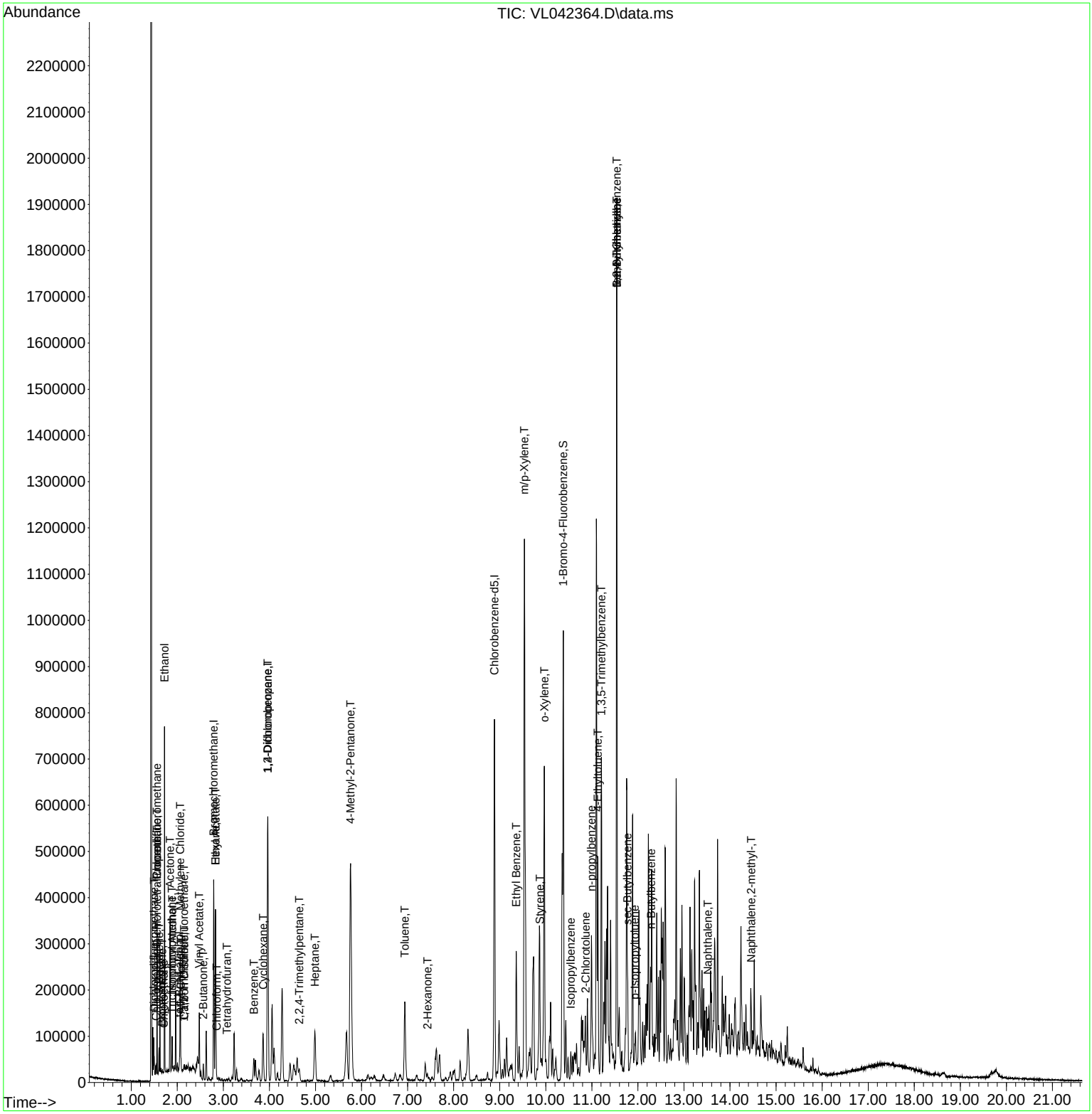
(#) = qualifier out of range (m) = manual integration (+) = signals summed

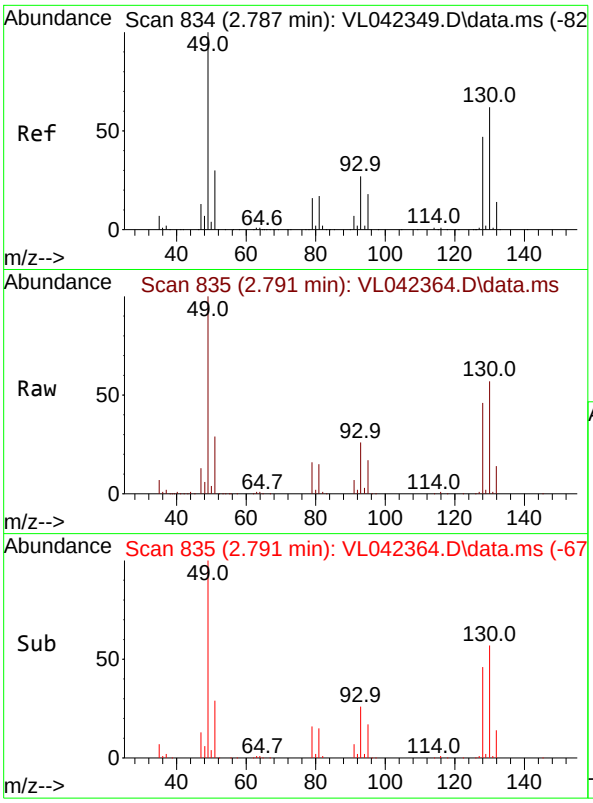
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042364.D
Acq On : 17 Apr 2025 18:58
Operator : SY/MD
Sample : Q1668-04
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-1-3252025

Quant Time: Apr 18 02:41:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration



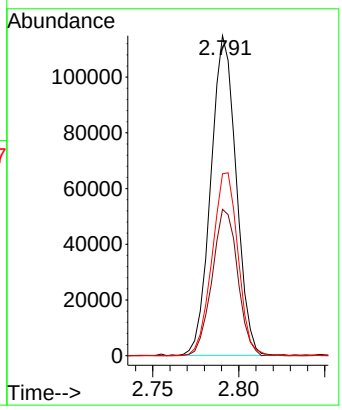


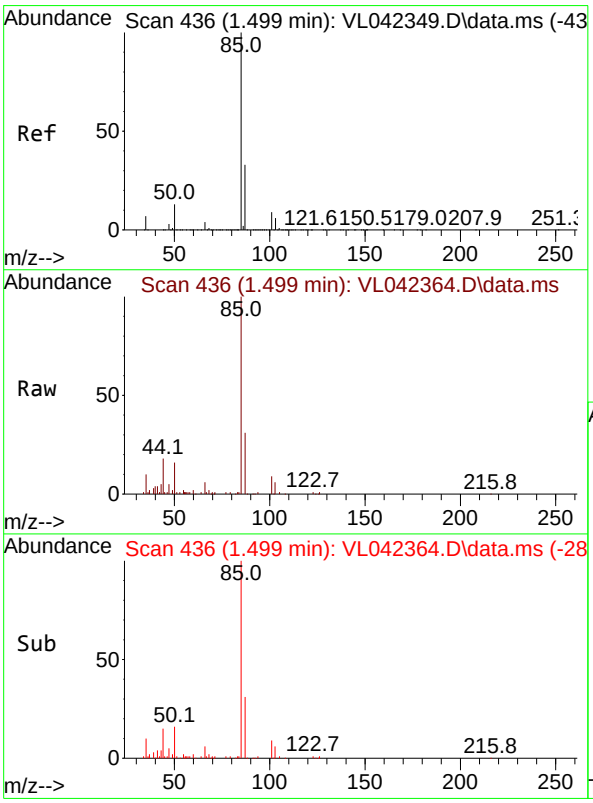
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.791 min Scan# 8
Delta R.T. 0.004 min
Lab File: VL042364.D
Acq: 17 Apr 2025 18:58

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-1-3252025

Tgt Ion: 49 Resp: 117691

Ion	Ratio	Lower	Upper
49	100		
128	46.1	22.8	68.4
130	58.4	29.3	88.0

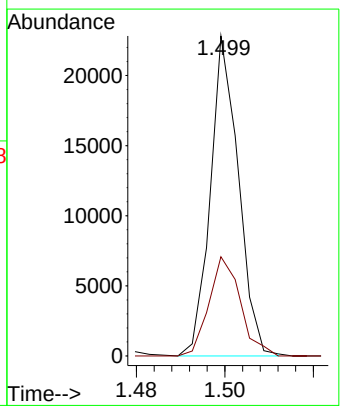


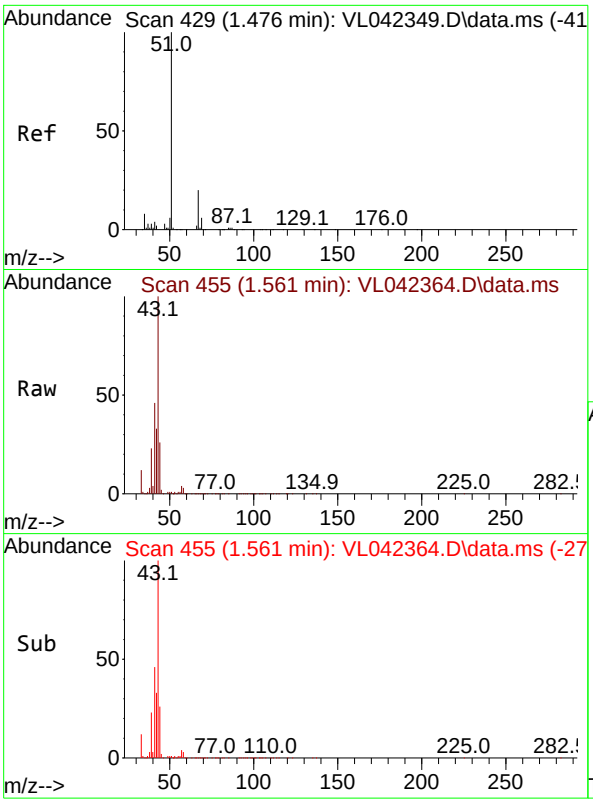


#2
Dichlorodifluoromethane
Concen: 0.484 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.000 min
Lab File: VL042364.D
Acq: 17 Apr 2025 18:58

Tgt Ion: 85 Resp: 10068

Ion	Ratio	Lower	Upper
85	100		
87	31.0	26.6	39.8



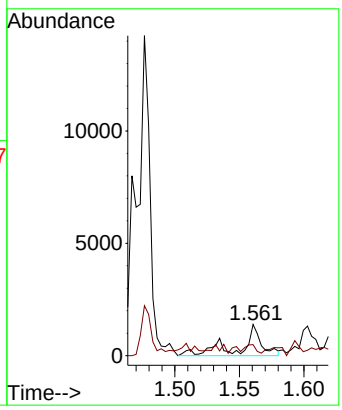


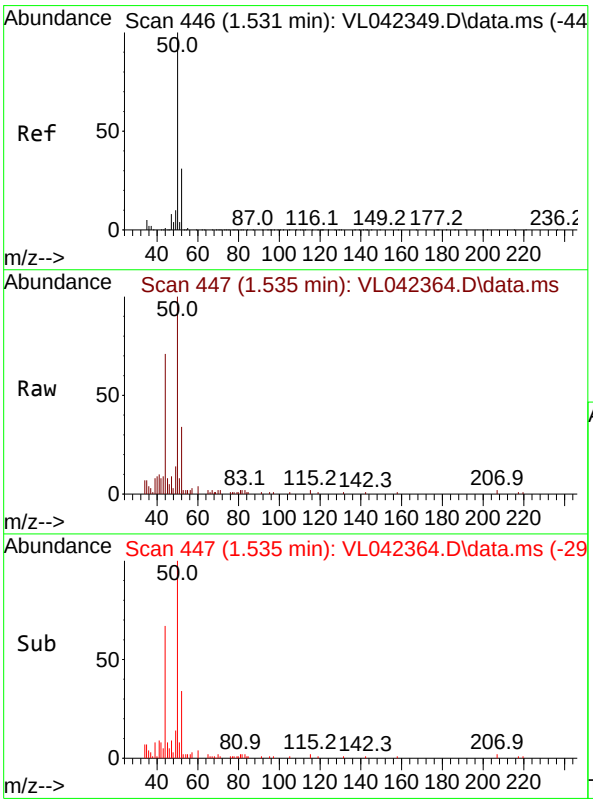
#3
Chlorodifluoromethane
Concen: 0.080 ppbv
RT: 1.561 min Scan# 4
Delta R.T. 0.084 min
Lab File: VL042364.D
Acq: 17 Apr 2025 18:58

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-1-3252025

Tgt Ion: 51 Resp: 1577

Ion	Ratio	Lower	Upper
51	100		
67	21.2	16.2	24.4

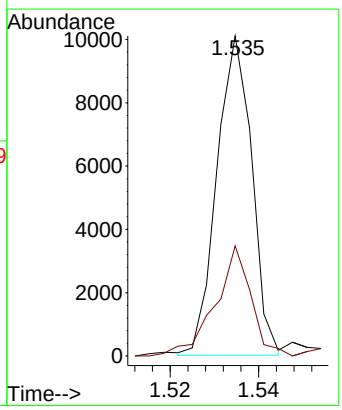


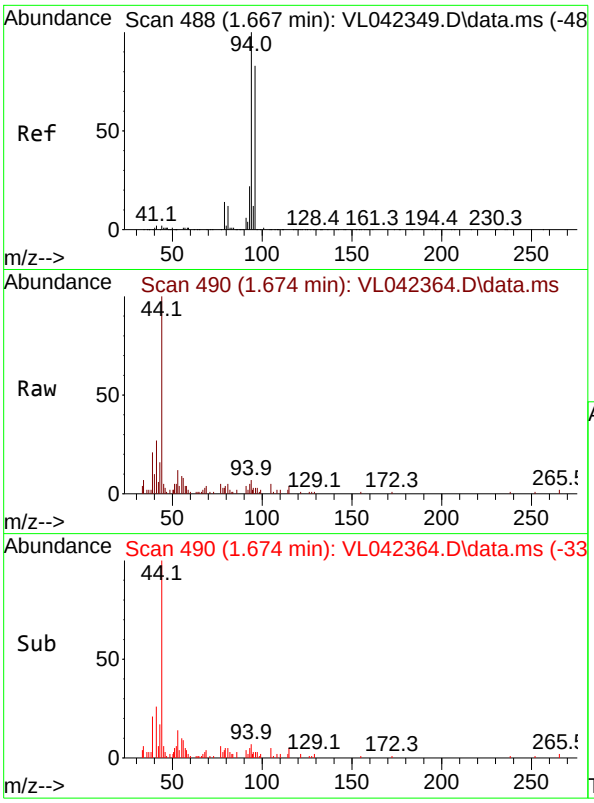


#4
Chloromethane
Concen: 0.672 ppbv
RT: 1.535 min Scan# 447
Delta R.T. 0.004 min
Lab File: VL042364.D
Acq: 17 Apr 2025 18:58

Tgt Ion: 50 Resp: 5532

Ion	Ratio	Lower	Upper
50	100		
52	33.4	24.7	37.1



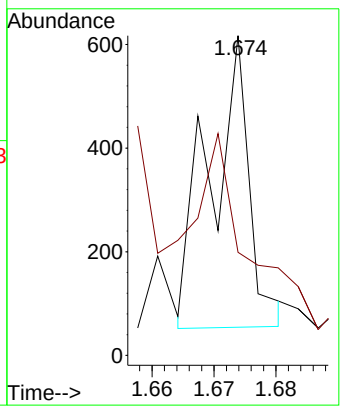


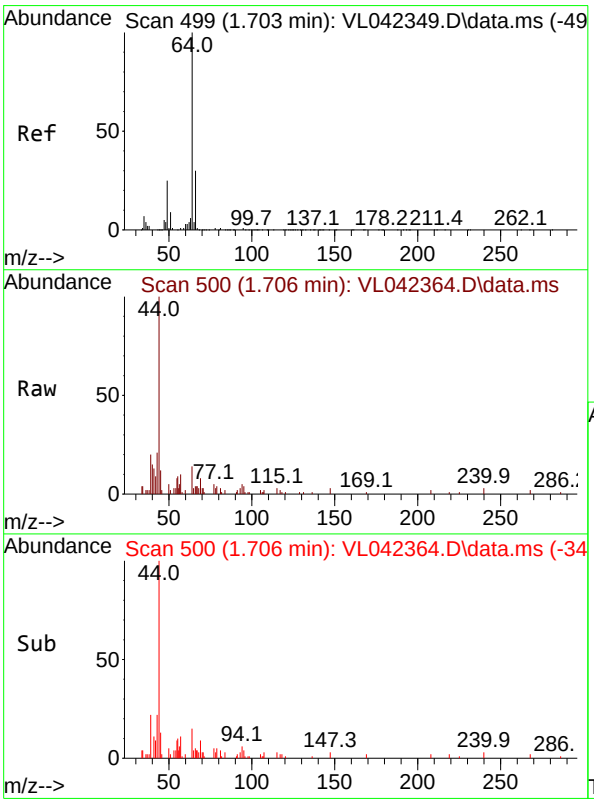
#6
Bromomethane
Concen: 0.064 ppbv
RT: 1.674 min Scan# 4
Delta R.T. 0.007 min
Lab File: VL042364.D
Acq: 17 Apr 2025 18:58

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-1-3252025

Tgt Ion: 94 Resp: 247

Ion	Ratio	Lower	Upper
94	100		
96	5.5	66.2	99.2#

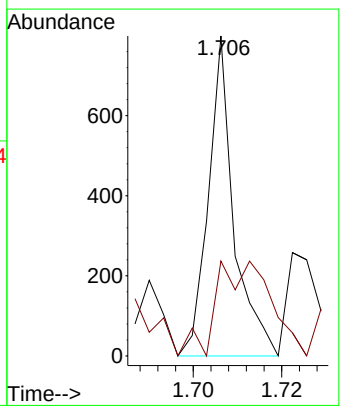


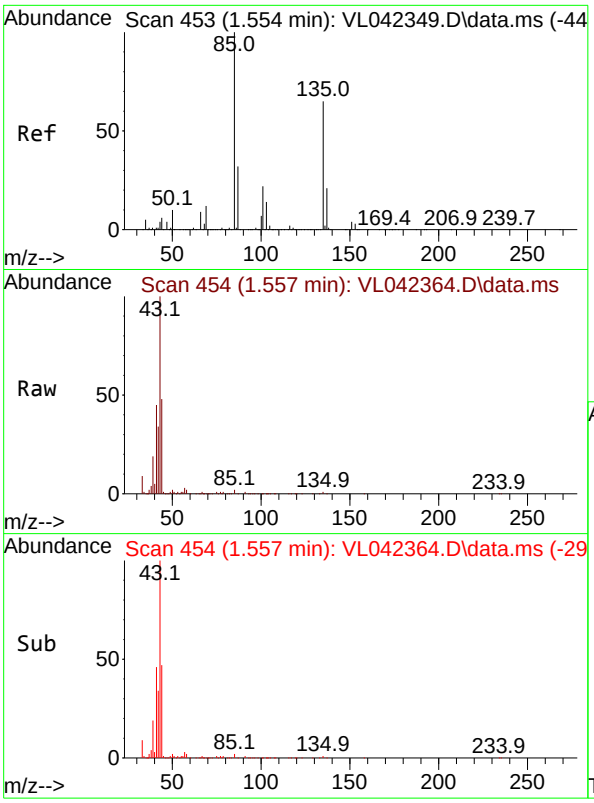


#7
Chloroethane
Concen: 0.098 ppbv
RT: 1.706 min Scan# 500
Delta R.T. 0.004 min
Lab File: VL042364.D
Acq: 17 Apr 2025 18:58

Tgt Ion: 64 Resp: 318

Ion	Ratio	Lower	Upper
64	100		
66	57.6	24.6	37.0#



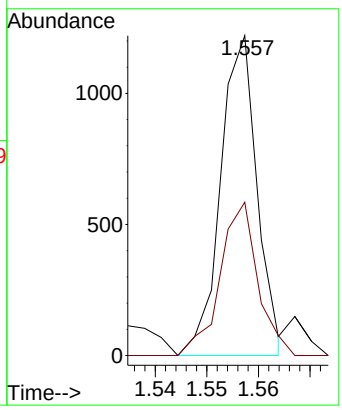


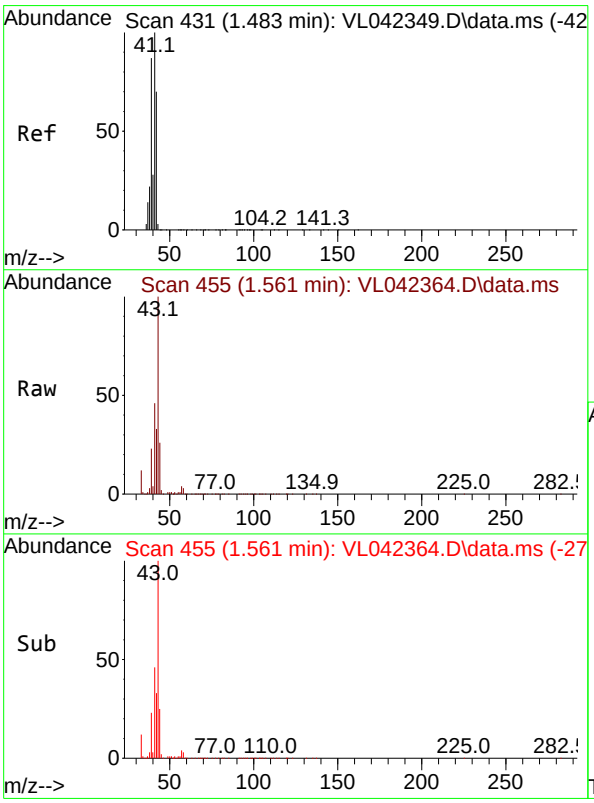
#8
Dichlorotetrafluoroethane
Concen: 0.034 ppbv
RT: 1.557 min Scan# 4
Delta R.T. 0.004 min
Lab File: VL042364.D
Acq: 17 Apr 2025 18:58

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-1-3252025

Tgt Ion: 85 Resp: 600

Ion	Ratio	Lower	Upper
85	100		
135	49.7	52.2	78.2#

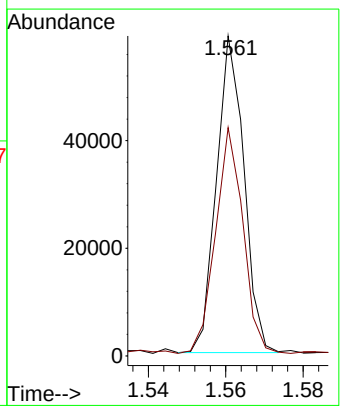


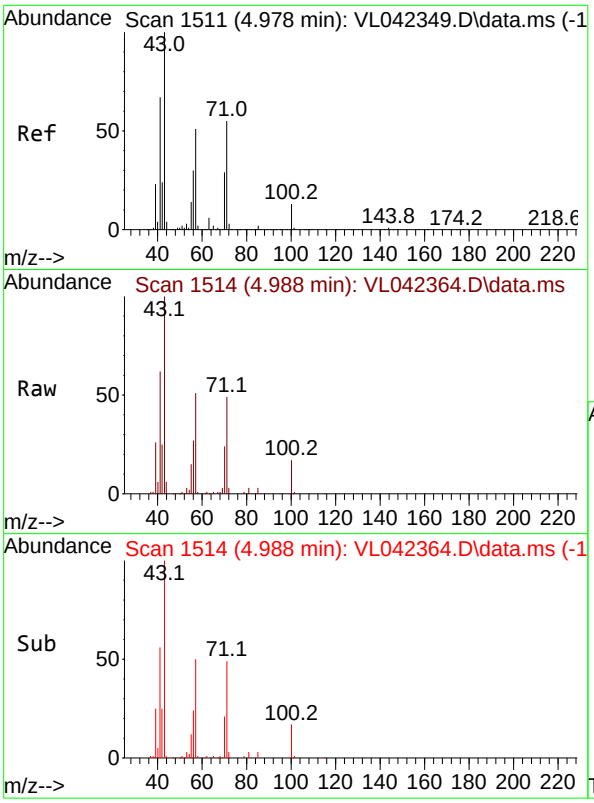


#9
Propene
Concen: 3.218 ppbv
RT: 1.561 min Scan# 455
Delta R.T. 0.078 min
Lab File: VL042364.D
Acq: 17 Apr 2025 18:58

Tgt Ion: 41 Resp: 29021

Ion	Ratio	Lower	Upper
41	100		
42	77.0	56.2	84.4



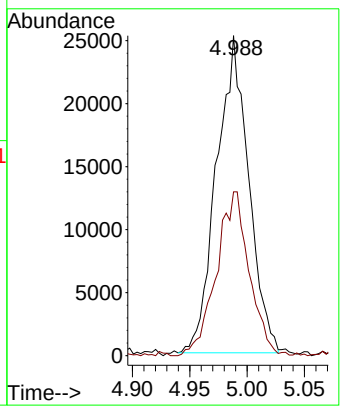


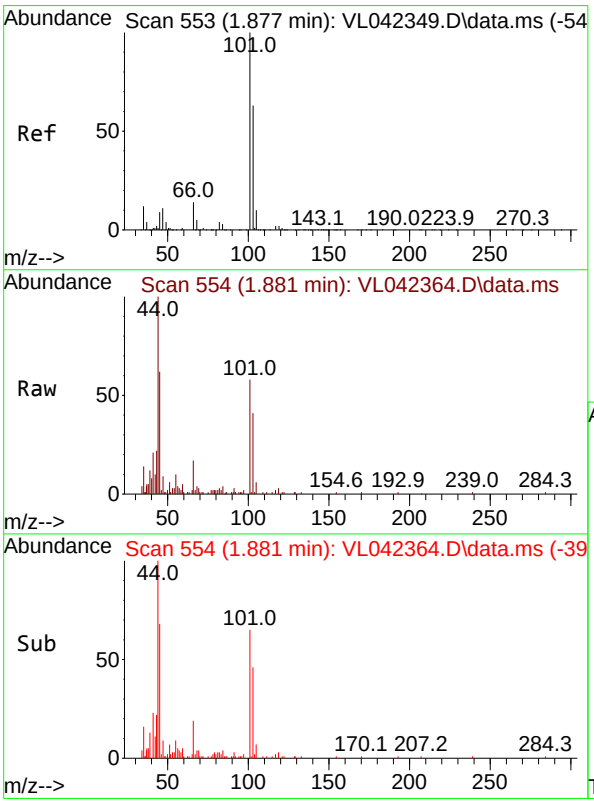
#10
Heptane
Concen: 1.934 ppbv
RT: 4.988 min Scan# 1
Delta R.T. 0.010 min
Lab File: VL042364.D
Acq: 17 Apr 2025 18:58

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-1-3252025

Tgt Ion: 43 Resp: 48989

Ion	Ratio	Lower	Upper
43	100		
57	53.3	39.9	59.9

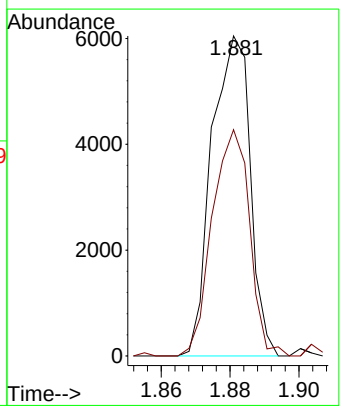


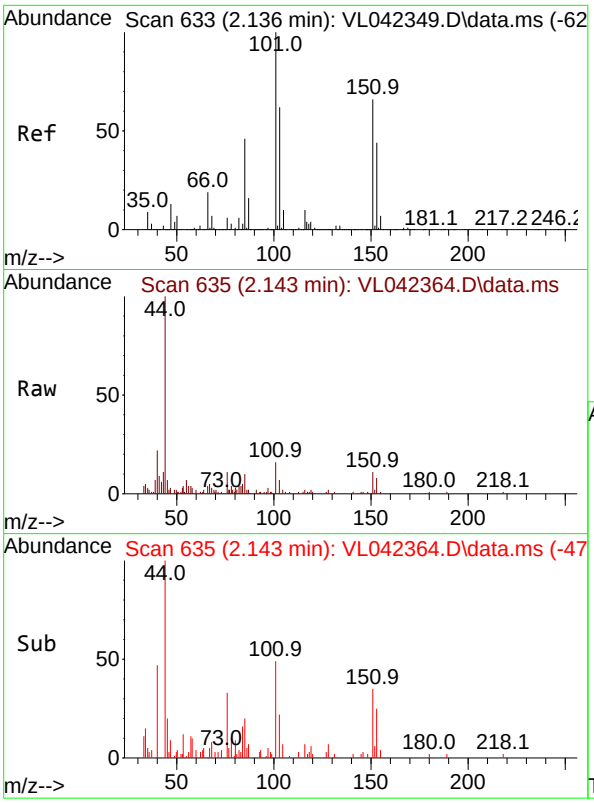


#11
Trichlorofluoromethane
Concen: 0.237 ppbv
RT: 1.881 min Scan# 554
Delta R.T. 0.004 min
Lab File: VL042364.D
Acq: 17 Apr 2025 18:58

Tgt Ion:101 Resp: 4688

Ion	Ratio	Lower	Upper
101	100		
103	70.7	50.1	75.1



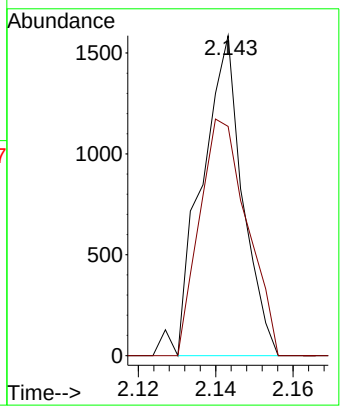


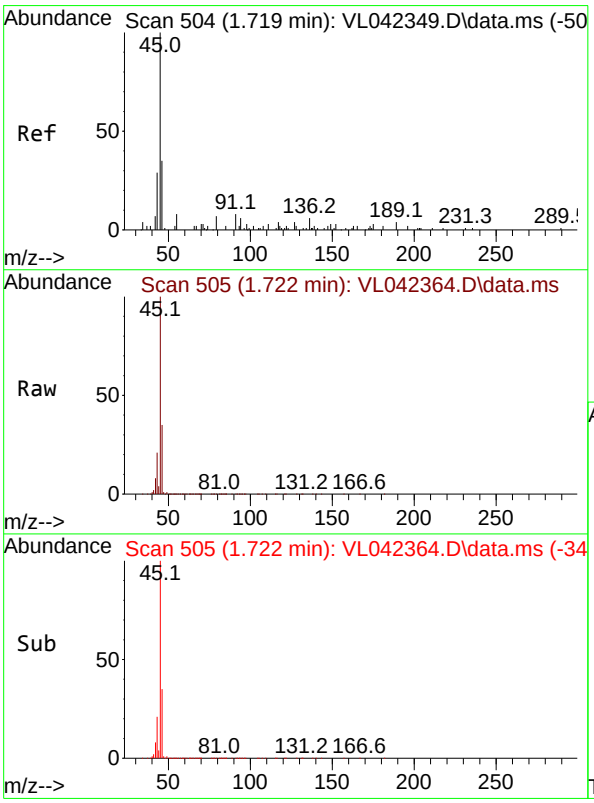
#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.071 ppbv
RT: 2.143 min Scan# 6
Delta R.T. 0.007 min
Lab File: VL042364.D
Acq: 17 Apr 2025 18:58

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-1-3252025

Tgt Ion:101 Resp: 1147

Ion	Ratio	Lower	Upper
101	100		
151	87.3	57.0	85.6#

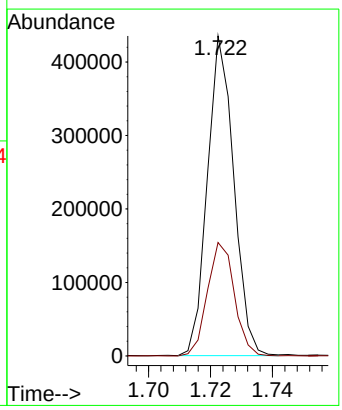


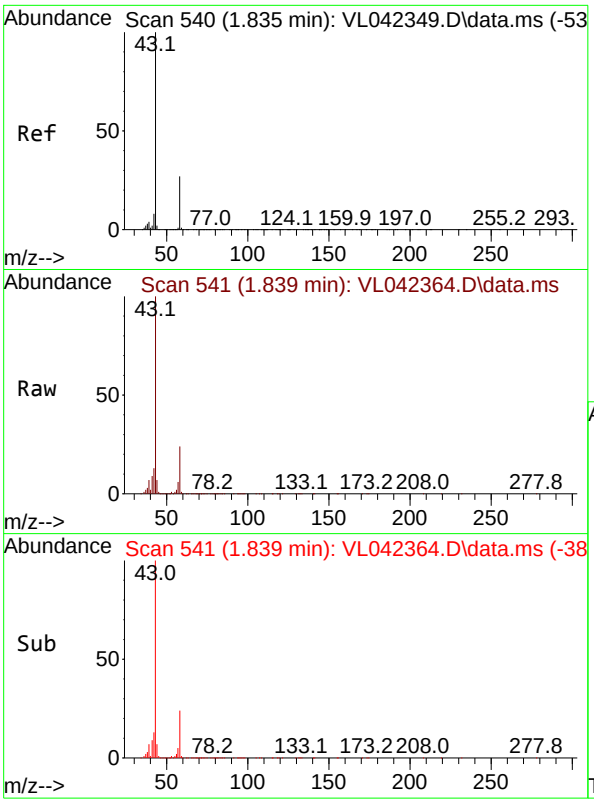


#13
Ethanol
Concen: 179.643 ppbv
RT: 1.722 min Scan# 505
Delta R.T. 0.004 min
Lab File: VL042364.D
Acq: 17 Apr 2025 18:58

Tgt Ion: 45 Resp: 257475

Ion	Ratio	Lower	Upper
45	100		
46	36.4	21.9	87.7



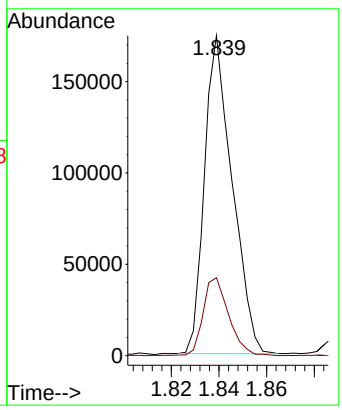


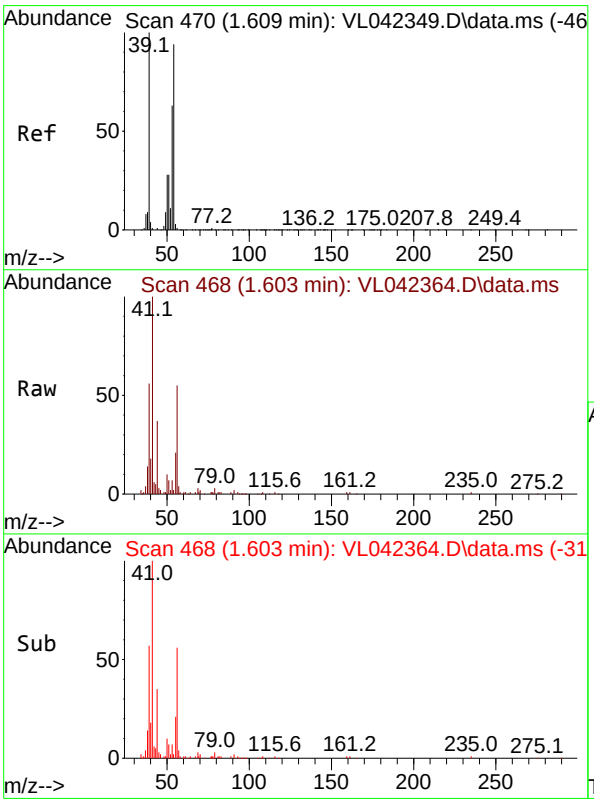
#15
Acetone
Concen: 7.299 ppbv
RT: 1.839 min Scan# 54
Delta R.T. 0.004 min
Lab File: VL042364.D
Acq: 17 Apr 2025 18:58

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-1-3252025

Tgt Ion: 43 Resp: 140628

Ion	Ratio	Lower	Upper
43	100		
58	22.9	22.4	33.6

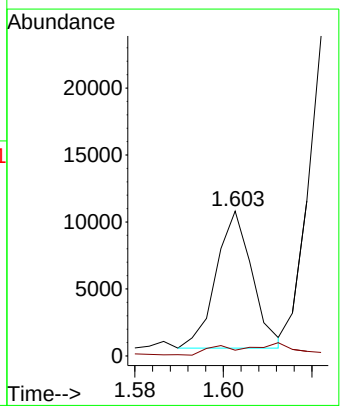


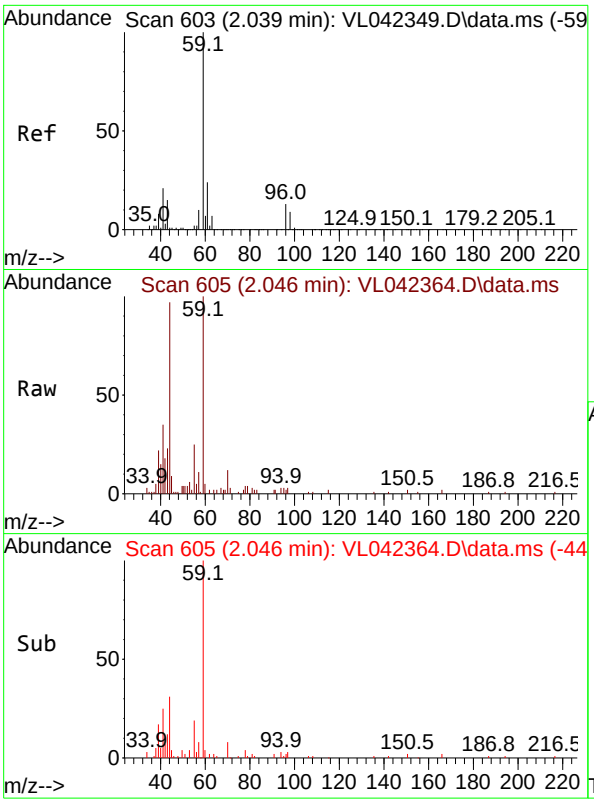


#16
1,3-Butadiene
Concen: 0.628 ppbv
RT: 1.603 min Scan# 468
Delta R.T. -0.006 min
Lab File: VL042364.D
Acq: 17 Apr 2025 18:58

Tgt Ion: 39 Resp: 5791

Ion	Ratio	Lower	Upper
39	100		
54	23.4	64.9	97.3#



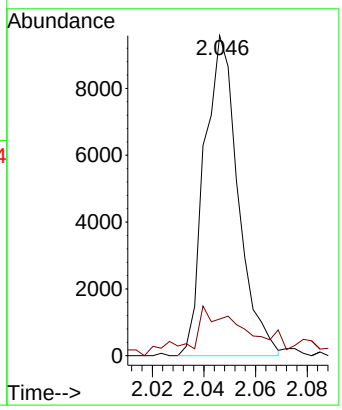


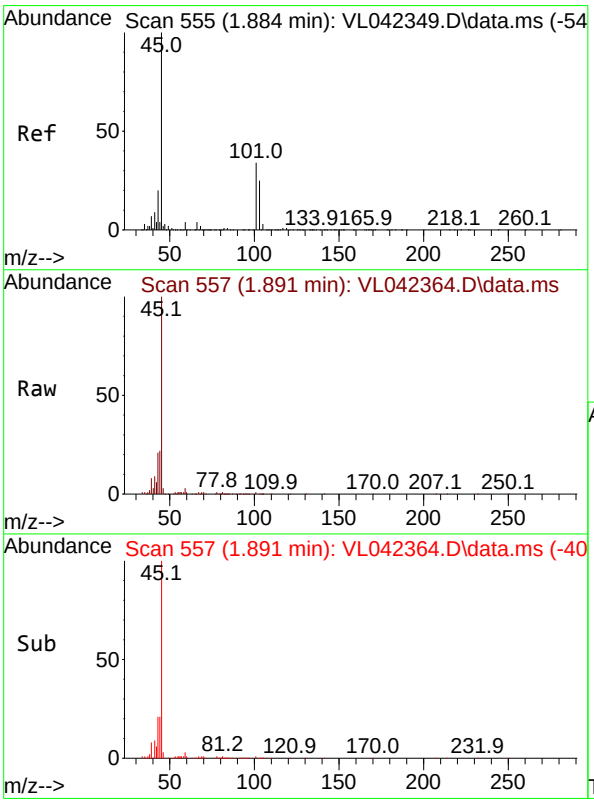
#17
tert-Butyl alcohol
Concen: 0.364 ppbv
RT: 2.046 min Scan# 6
Delta R.T. 0.007 min
Lab File: VL042364.D
Acq: 17 Apr 2025 18:58

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-1-3252025

Tgt Ion: 59 Resp: 8687

Ion	Ratio	Lower	Upper
59	100		
57	27.5	8.7	13.1#

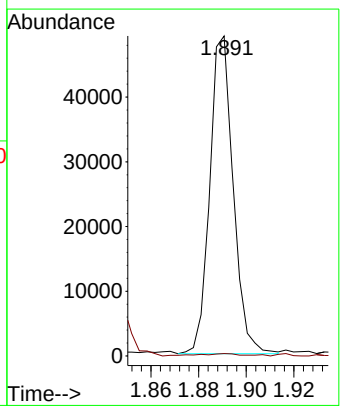


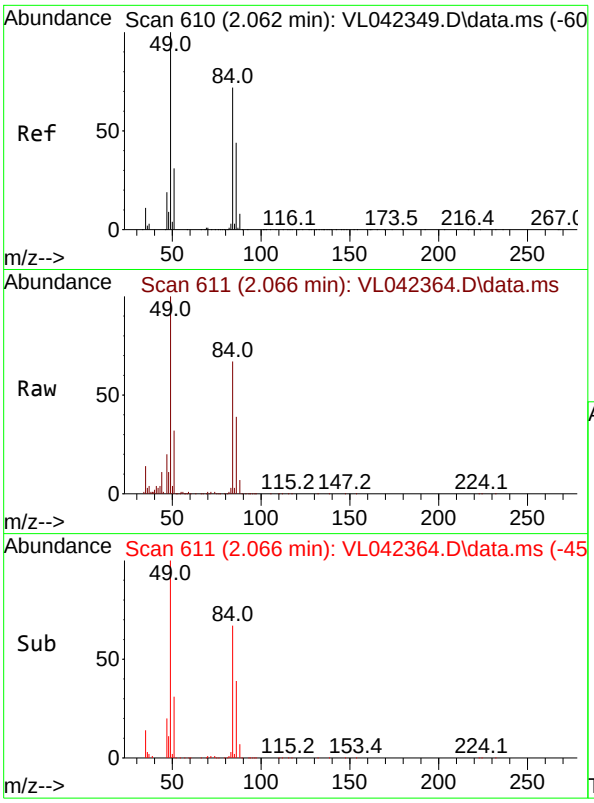


#19
Isopropyl Alcohol
Concen: 3.132 ppbv
RT: 1.891 min Scan# 557
Delta R.T. 0.007 min
Lab File: VL042364.D
Acq: 17 Apr 2025 18:58

Tgt Ion: 45 Resp: 33526

Ion	Ratio	Lower	Upper
45	100		
58	96.1	34.5	51.7#



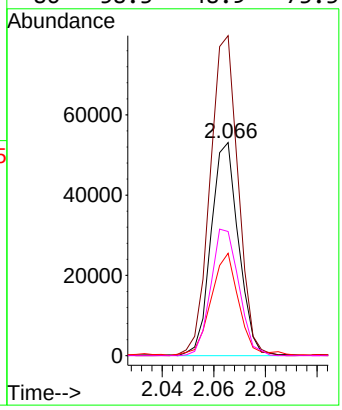


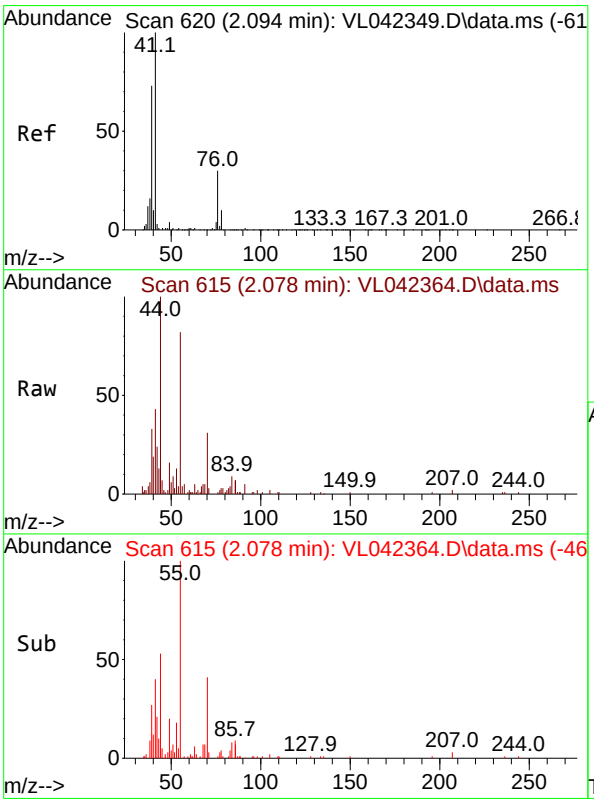
#20
Methylene Chloride
Concen: 5.205 ppbv
RT: 2.066 min Scan# 61
Delta R.T. 0.004 min
Lab File: VL042364.D
Acq: 17 Apr 2025 18:58

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-1-3252025

Tgt Ion: 84 Resp: 39273

Ion	Ratio	Lower	Upper
84	100		
49	149.8	111.6	167.4
51	47.4	35.1	52.7
86	58.3	48.9	73.3

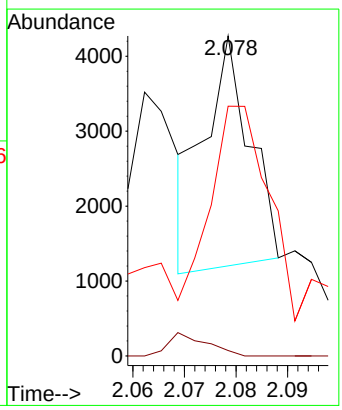


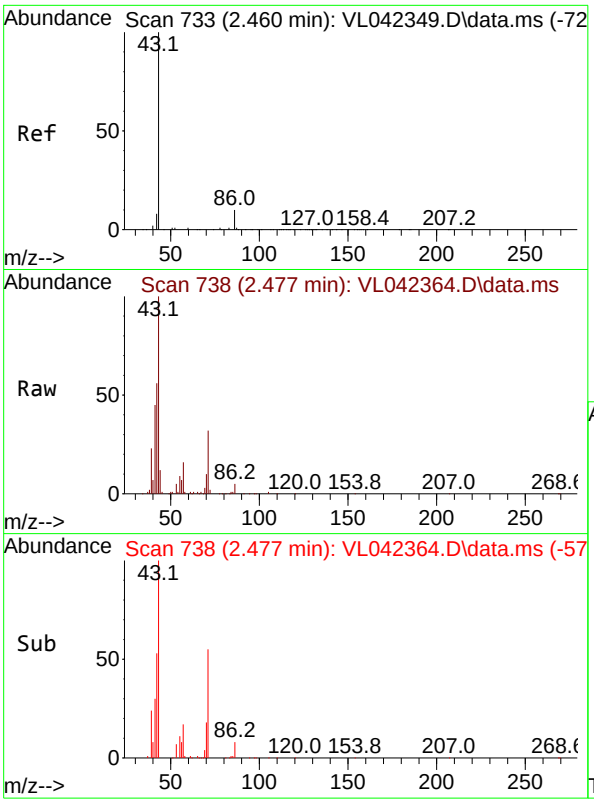


#21
Allyl Chloride
Concen: 0.141 ppbv
RT: 2.078 min Scan# 615
Delta R.T. -0.016 min
Lab File: VL042364.D
Acq: 17 Apr 2025 18:58

Tgt Ion: 41 Resp: 1879

Ion	Ratio	Lower	Upper
41	100		
76	0.0	24.8	37.2#
39	143.2	60.6	90.8#



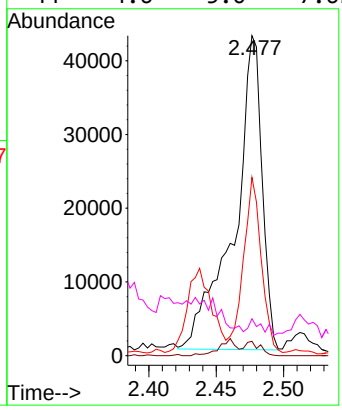


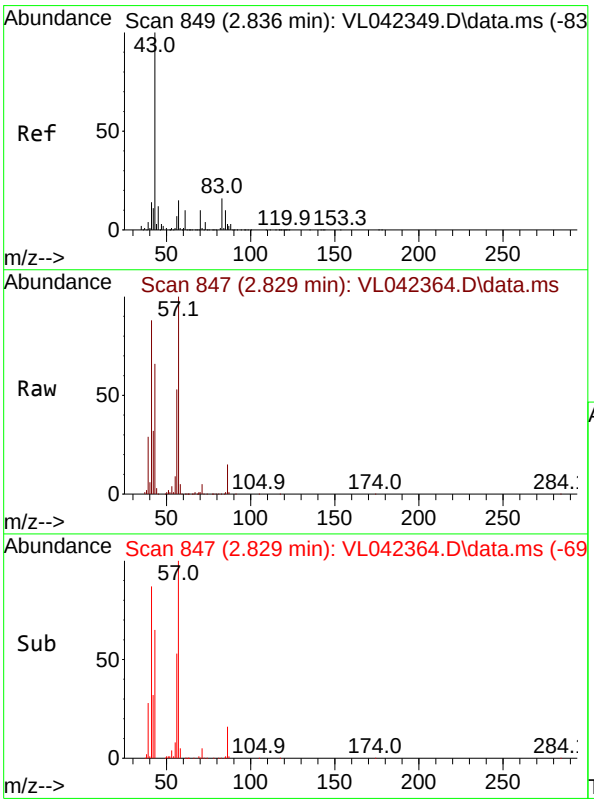
#23
Vinyl Acetate
Concen: 7.884 ppbv
RT: 2.477 min Scan# 7
Delta R.T. 0.017 min
Lab File: VL042364.D
Acq: 17 Apr 2025 18:58

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-1-3252025

Tgt Ion: 43 Resp: 61483

Ion	Ratio	Lower	Upper
43	100		
86	4.6	6.5	9.7#
42	55.0	7.8	11.8#
44	4.6	5.0	7.6#

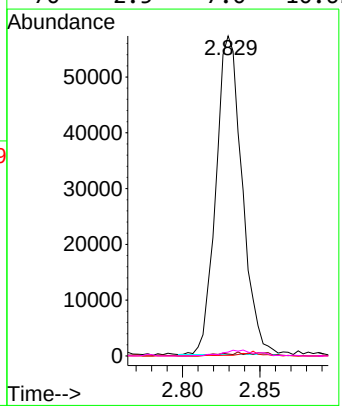


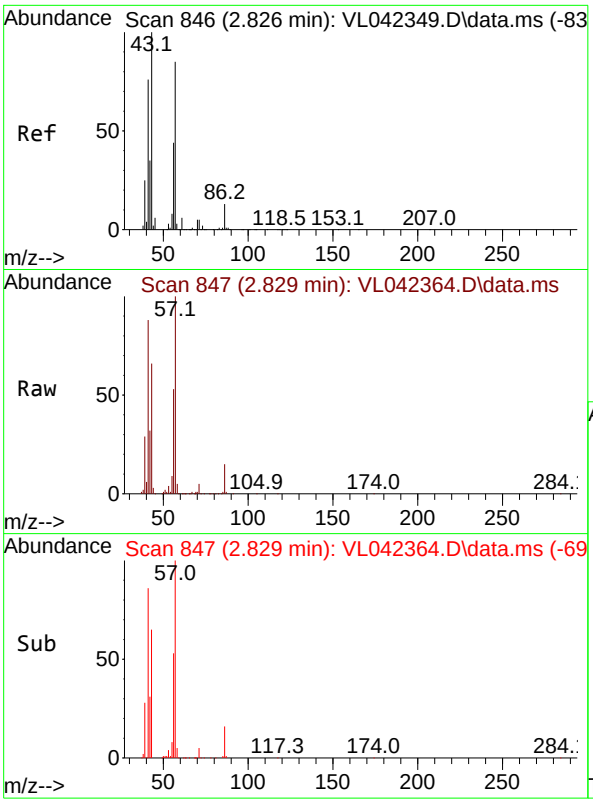


#25
Ethyl Acetate
Concen: 1.409 ppbv
RT: 2.829 min Scan# 847
Delta R.T. -0.006 min
Lab File: VL042364.D
Acq: 17 Apr 2025 18:58

Tgt Ion: 43 Resp: 66917

Ion	Ratio	Lower	Upper
43	100		
45	1.8	8.3	12.5#
61	1.1	7.3	10.9#
70	2.5	7.0	10.6#



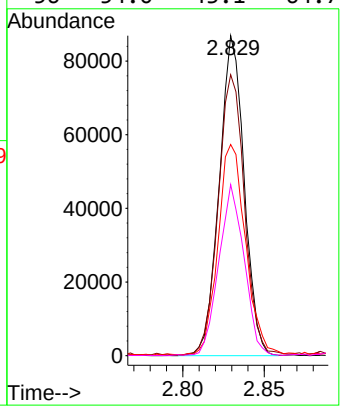


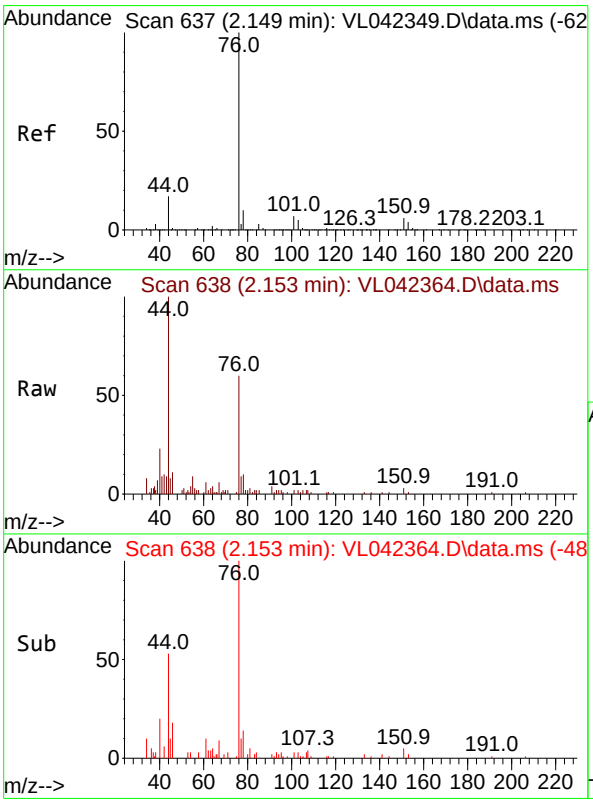
#26
Hexane
Concen: 4.817 ppbv
RT: 2.829 min Scan# 84
Delta R.T. 0.004 min
Lab File: VL042364.D
Acq: 17 Apr 2025 18:58

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-1-3252025

Tgt Ion: 57 Resp: 92595

Ion	Ratio	Lower	Upper
57	100		
41	92.9	77.9	116.9
43	73.0	208.4	312.6#
56	54.0	43.1	64.7

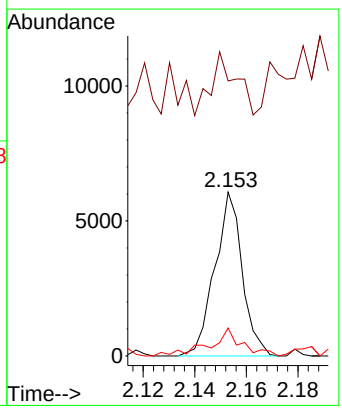


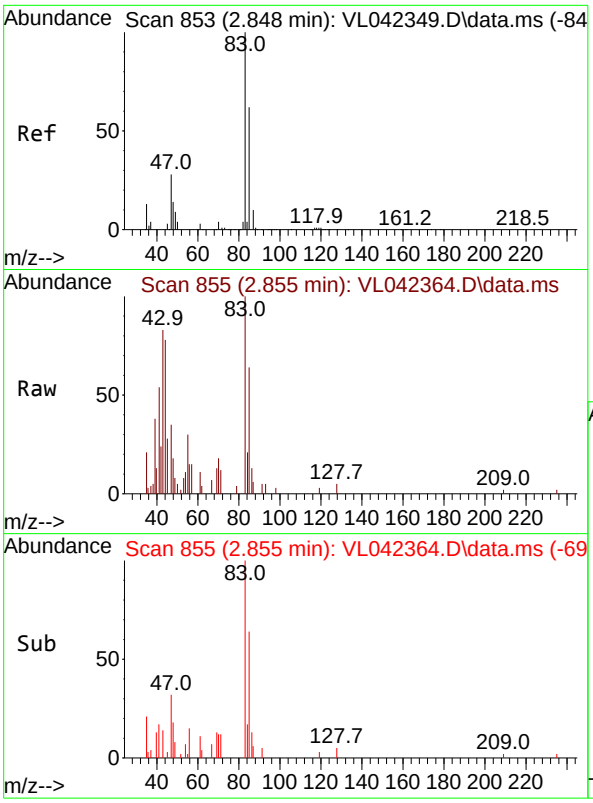


#27
Carbon Disulfide
Concen: 0.218 ppbv
RT: 2.153 min Scan# 638
Delta R.T. 0.004 min
Lab File: VL042364.D
Acq: 17 Apr 2025 18:58

Tgt Ion: 76 Resp: 4485

Ion	Ratio	Lower	Upper
76	100		
44	265.5	15.5	23.3#
78	19.9	9.3	13.9#



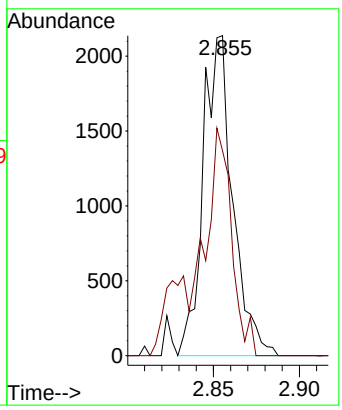


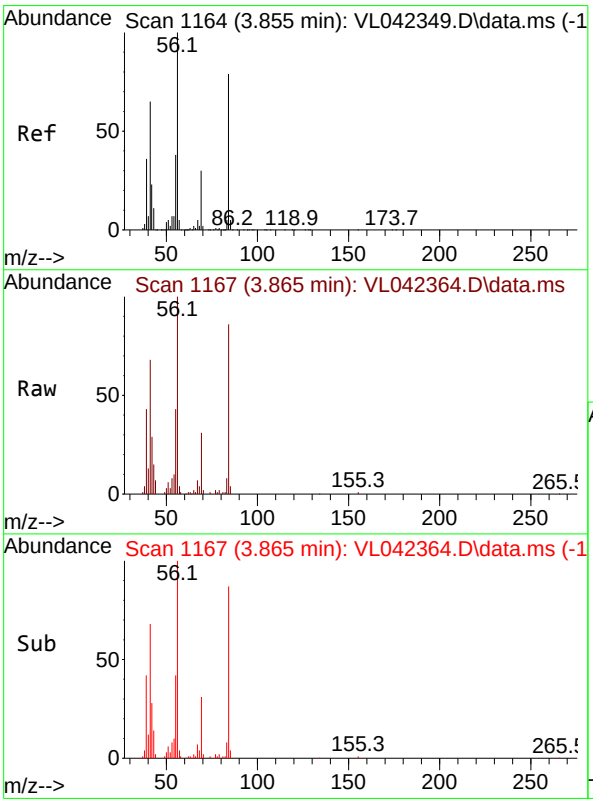
#29
Chloroform
Concen: 0.094 ppbv
RT: 2.855 min Scan# 8
Delta R.T. 0.007 min
Lab File: VL042364.D
Acq: 17 Apr 2025 18:58

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-1-3252025

Tgt Ion: 83 Resp: 2558

Ion	Ratio	Lower	Upper
83	100		
85	64.1	50.0	75.0

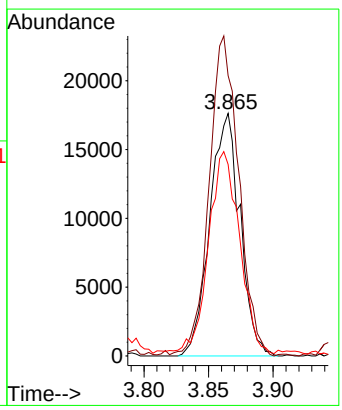


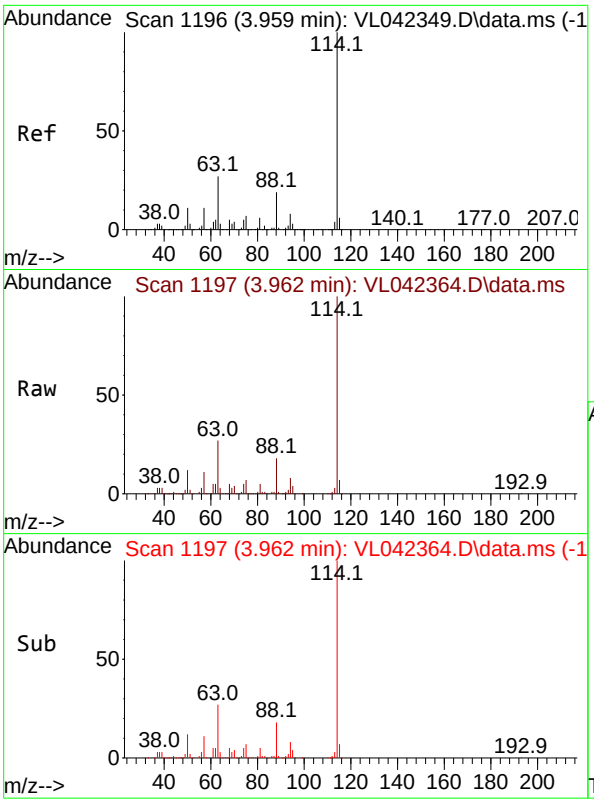


#30
Cyclohexane
Concen: 1.845 ppbv
RT: 3.865 min Scan# 1167
Delta R.T. 0.010 min
Lab File: VL042364.D
Acq: 17 Apr 2025 18:58

Tgt Ion: 84 Resp: 28679

Ion	Ratio	Lower	Upper
84	100		
56	129.9	101.0	151.4
41	86.0	67.4	101.0



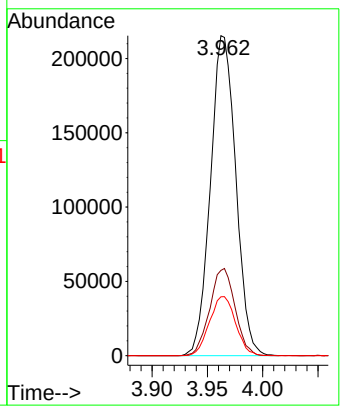


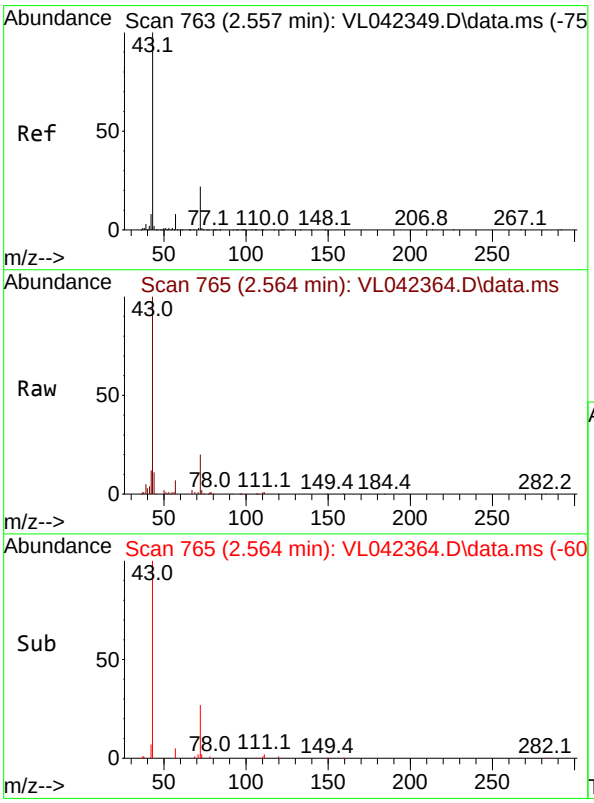
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.962 min Scan# 11
Delta R.T. 0.004 min
Lab File: VL042364.D
Acq: 17 Apr 2025 18:58

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-1-3252025

Tgt Ion:114 Resp: 343133

Ion	Ratio	Lower	Upper
114	100		
63	27.3	21.8	32.6
88	19.0	15.5	23.3

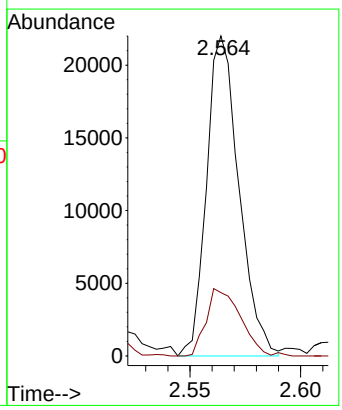


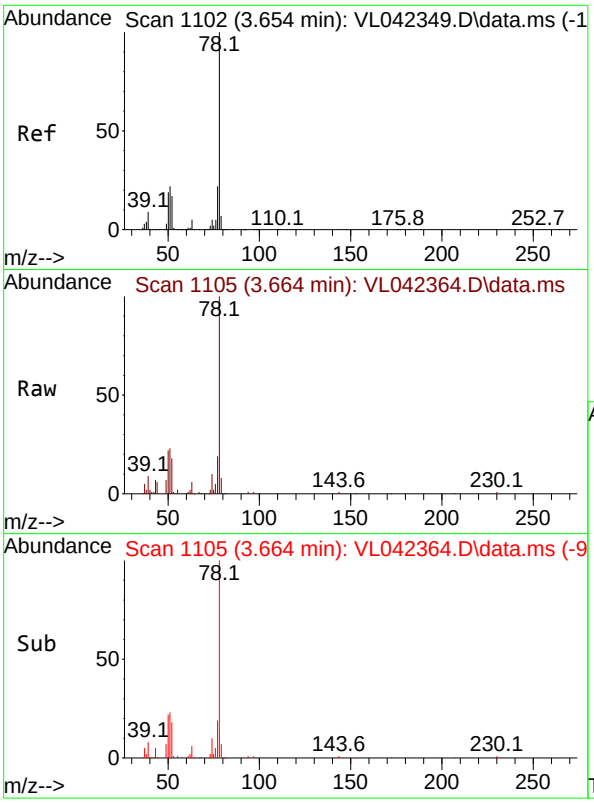


#34
2-Butanone
Concen: 0.825 ppbv
RT: 2.564 min Scan# 765
Delta R.T. 0.007 min
Lab File: VL042364.D
Acq: 17 Apr 2025 18:58

Tgt Ion: 43 Resp: 22380

Ion	Ratio	Lower	Upper
43	100		
72	22.4	18.2	27.2



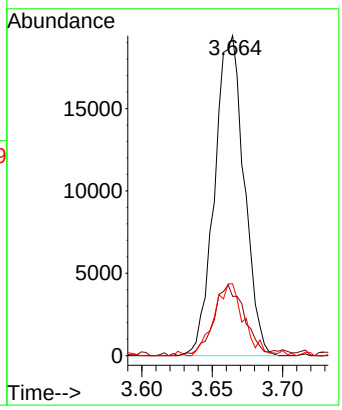


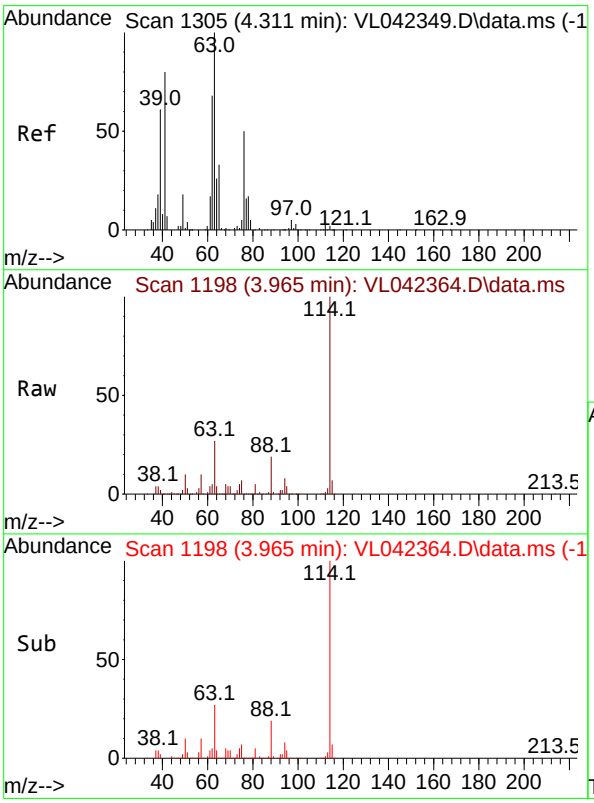
#36
Benzene
Concen: 0.768 ppbv
RT: 3.664 min Scan# 11
Delta R.T. 0.010 min
Lab File: VL042364.D
Acq: 17 Apr 2025 18:58

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-1-3252025

Tgt Ion: 78 Resp: 28409

Ion	Ratio	Lower	Upper
78	100		
77	18.5	17.4	26.0
50	21.7	15.5	23.3

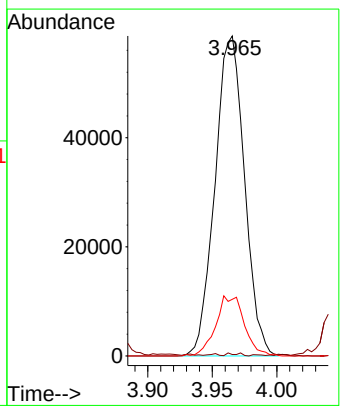


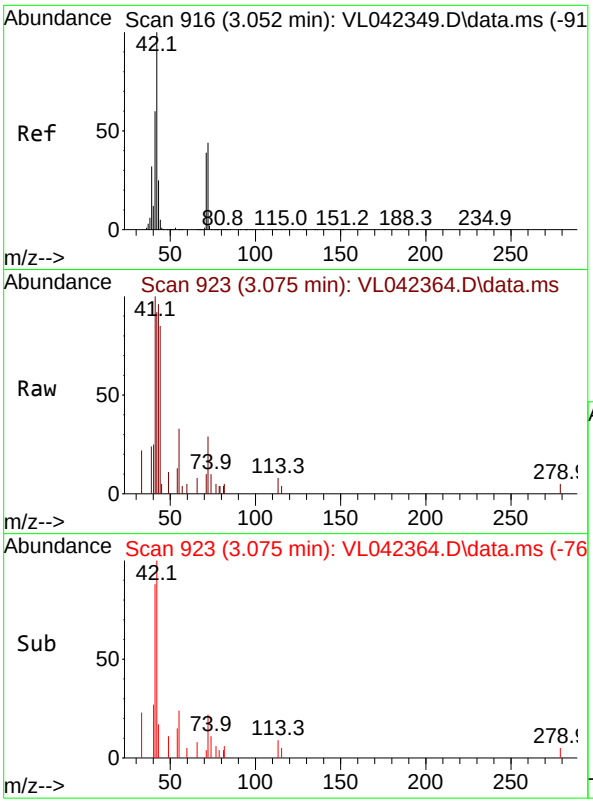


#39
1,2-Dichloropropane
Concen: 6.771 ppbv
RT: 3.965 min Scan# 1198
Delta R.T. -0.346 min
Lab File: VL042364.D
Acq: 17 Apr 2025 18:58

Tgt Ion: 63 Resp: 93381

Ion	Ratio	Lower	Upper
63	100		
41	0.1	64.2	96.2#
62	17.7	54.3	81.5#



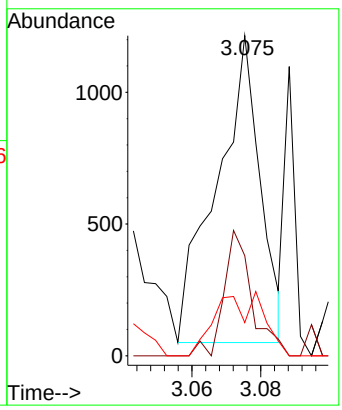


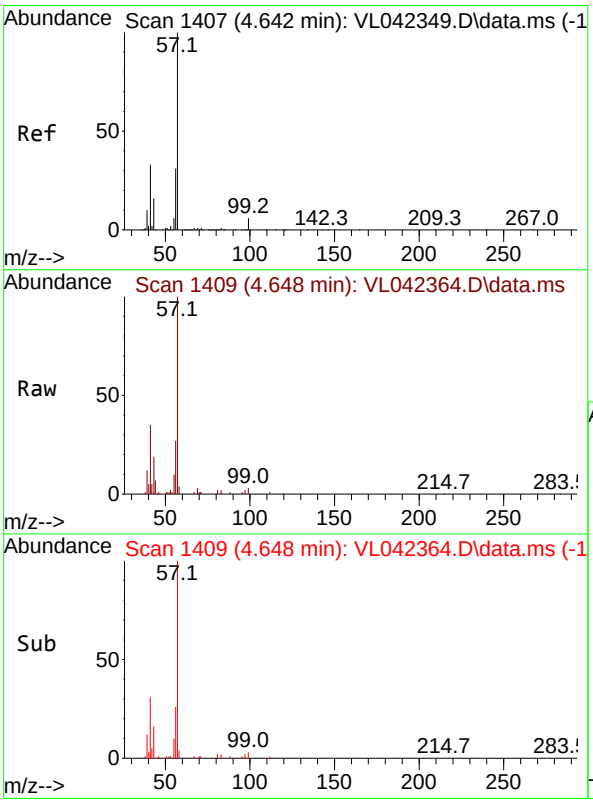
#41
Tetrahydrofuran
Concen: 0.065 ppbv
RT: 3.075 min Scan# 9
Delta R.T. 0.023 min
Lab File: VL042364.D
Acq: 17 Apr 2025 18:58

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-1-3252025

Tgt Ion: 42 Resp: 1027

Ion	Ratio	Lower	Upper
42	100		
72	28.5	32.3	48.5#
71	27.3	31.4	47.2#

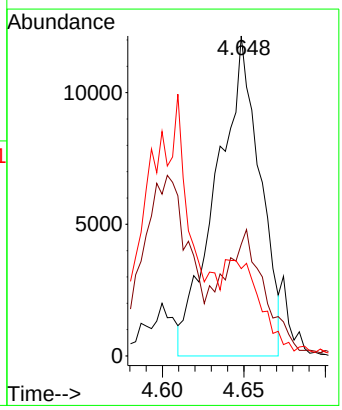


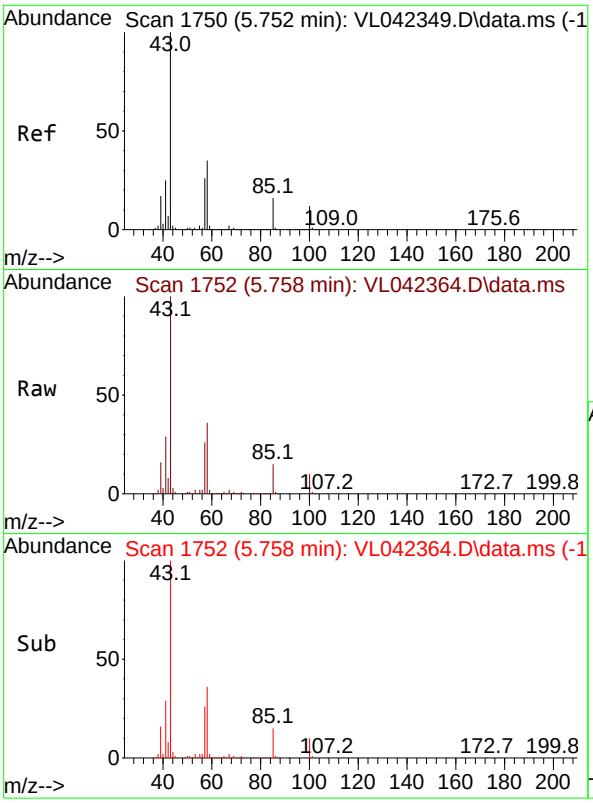


#44
2,2,4-Trimethylpentane
Concen: 0.350 ppbv
RT: 4.648 min Scan# 1409
Delta R.T. 0.007 min
Lab File: VL042364.D
Acq: 17 Apr 2025 18:58

Tgt Ion: 57 Resp: 22397

Ion	Ratio	Lower	Upper
57	100		
41	34.2	27.2	40.8
56	0.0	25.7	38.5#



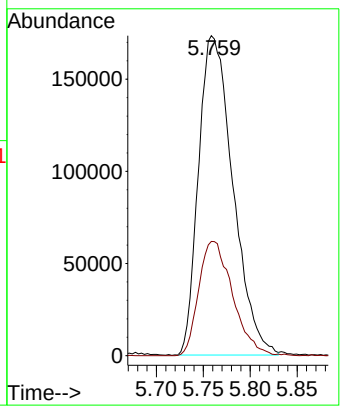


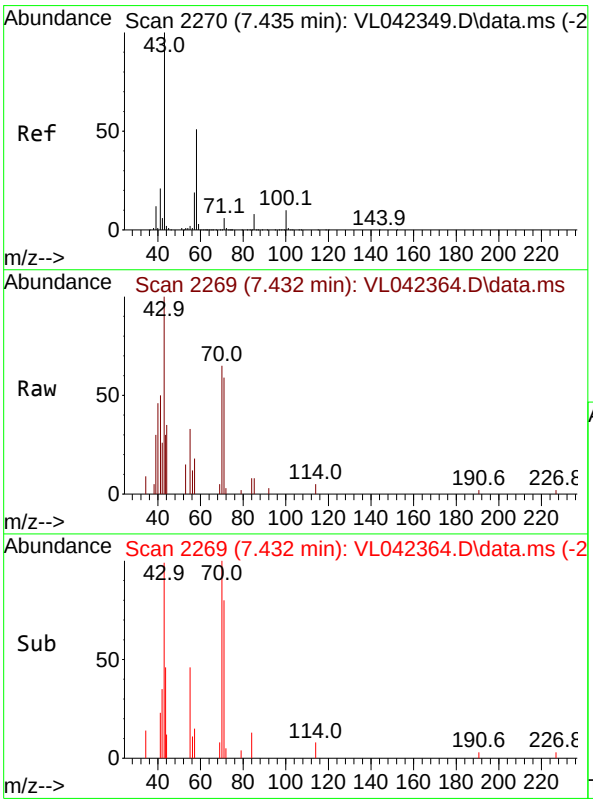
#50
4-Methyl-2-Pentanone
Concen: 9.785 ppbv
RT: 5.758 min Scan# 1
Delta R.T. 0.007 min
Lab File: VL042364.D
Acq: 17 Apr 2025 18:58

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-1-3252025

Tgt Ion: 43 Resp: 441281

Ion	Ratio	Lower	Upper
43	100		
58	35.4	28.6	43.0

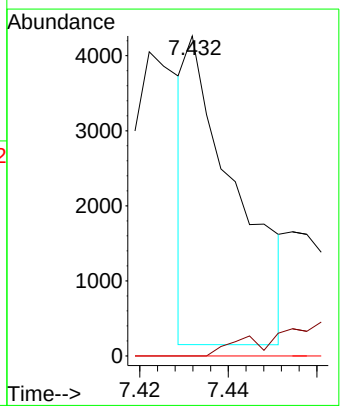


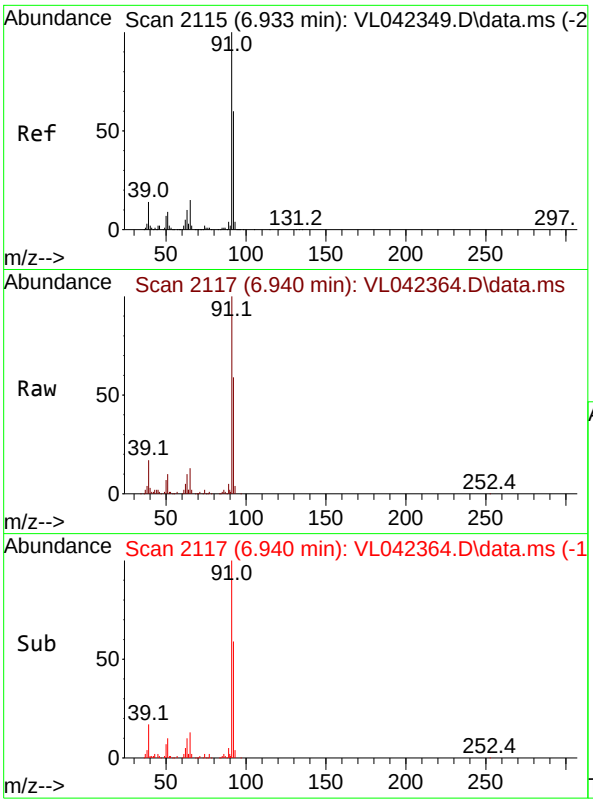


#51
2-Hexanone
Concen: 0.079 ppbv
RT: 7.432 min Scan# 2269
Delta R.T. -0.003 min
Lab File: VL042364.D
Acq: 17 Apr 2025 18:58

Tgt Ion: 43 Resp: 3177

Ion	Ratio	Lower	Upper
43	100		
58	0.0	40.2	60.4#
98	0.0	0.1	0.1#



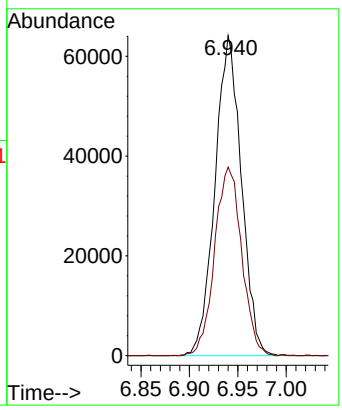


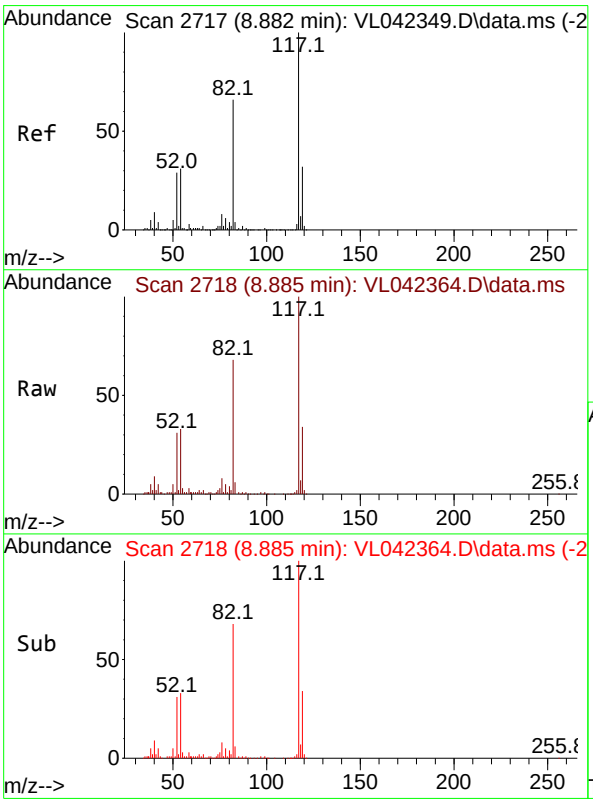
#53
Toluene
Concen: 2.738 ppbv
RT: 6.940 min Scan# 21
Delta R.T. 0.007 min
Lab File: VL042364.D
Acq: 17 Apr 2025 18:58

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-1-3252025

Tgt Ion: 91 Resp: 121585

Ion	Ratio	Lower	Upper
91	100		
92	60.5	48.2	72.4

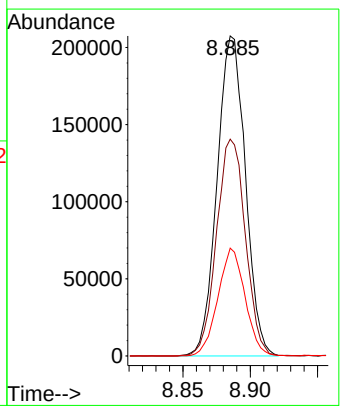


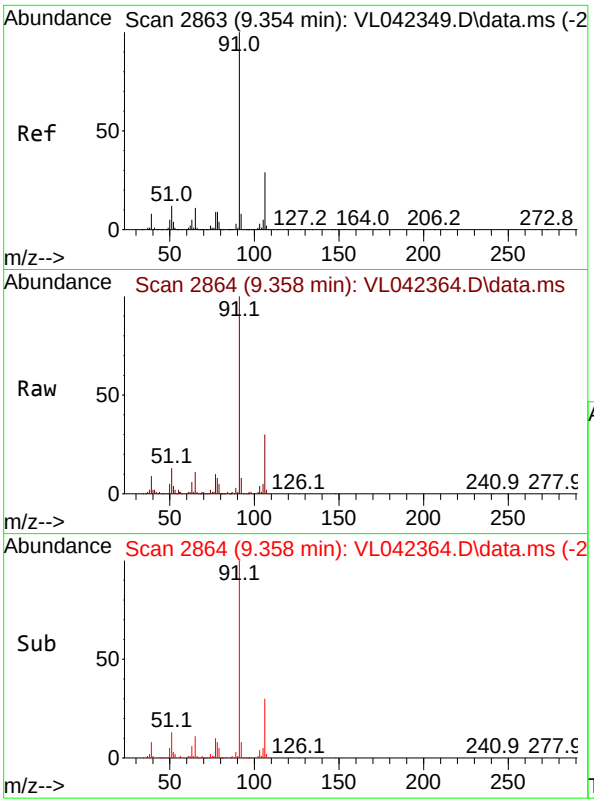


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.885 min Scan# 2718
Delta R.T. 0.004 min
Lab File: VL042364.D
Acq: 17 Apr 2025 18:58

Tgt Ion:117 Resp: 303219

Ion	Ratio	Lower	Upper
117	100		
82	69.1	57.8	86.6
119	32.4	25.2	37.8



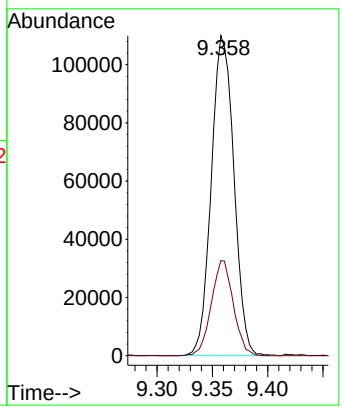


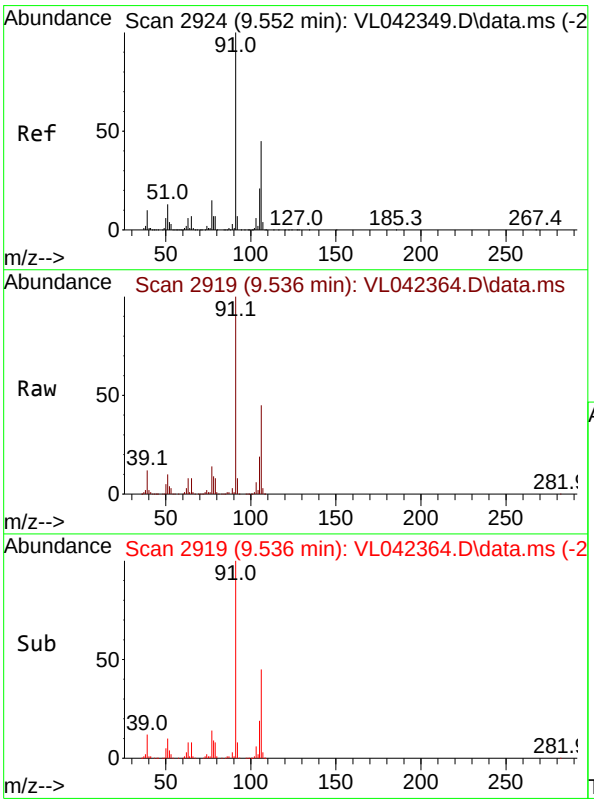
#58
Ethyl Benzene
Concen: 2.603 ppbv
RT: 9.358 min Scan# 2
Delta R.T. 0.004 min
Lab File: VL042364.D
Acq: 17 Apr 2025 18:58

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-1-3252025

Tgt Ion: 91 Resp: 156392

Ion	Ratio	Lower	Upper
91	100		
106	29.7	23.0	34.4

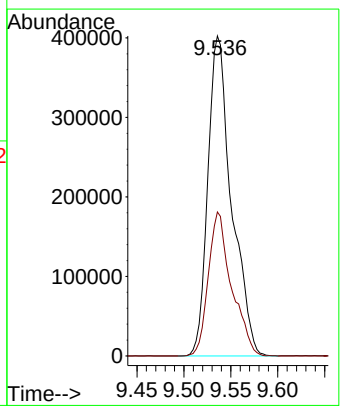


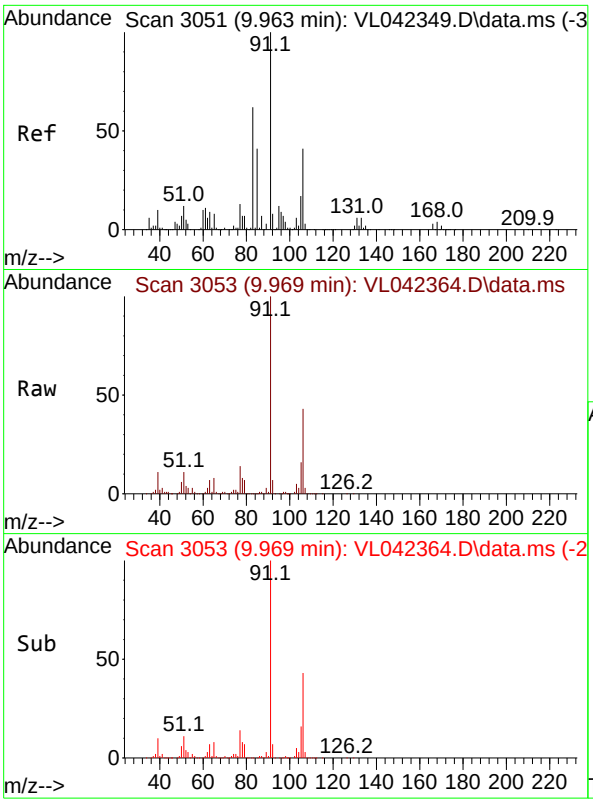


#59
m/p-Xylene
Concen: 14.596 ppbv
RT: 9.536 min Scan# 2919
Delta R.T. -0.016 min
Lab File: VL042364.D
Acq: 17 Apr 2025 18:58

Tgt Ion: 91 Resp: 706391

Ion	Ratio	Lower	Upper
91	100		
106	44.2	35.4	53.2



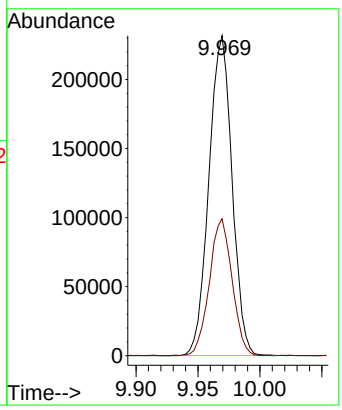


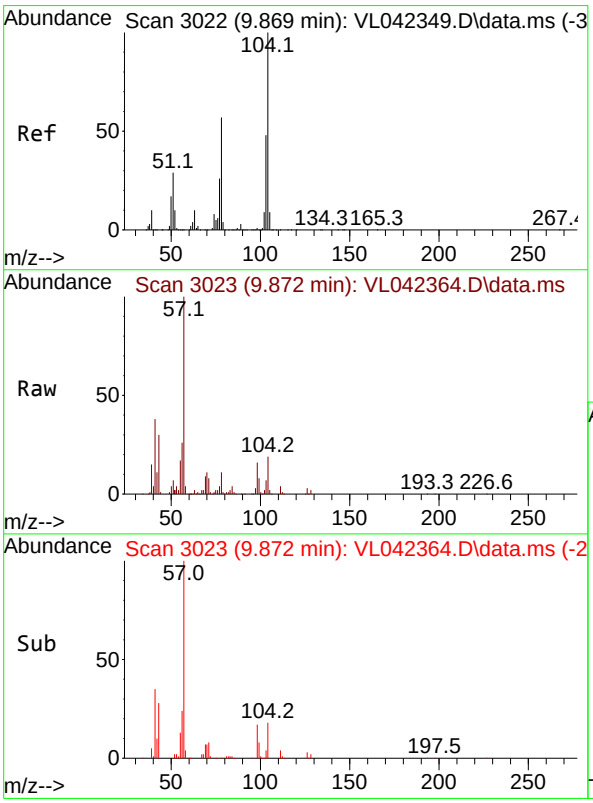
#60
o-Xylene
Concen: 6.183 ppbv
RT: 9.969 min Scan# 3
Delta R.T. 0.007 min
Lab File: VL042364.D
Acq: 17 Apr 2025 18:58

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-1-3252025

Tgt Ion: 91 Resp: 301328

Ion	Ratio	Lower	Upper
91	100		
106	42.0	21.1	63.4

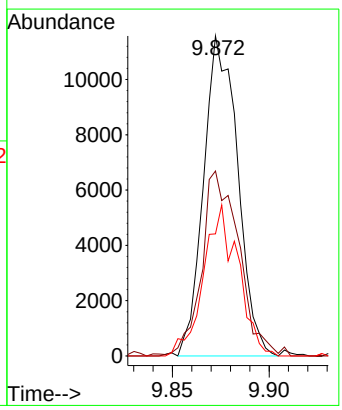


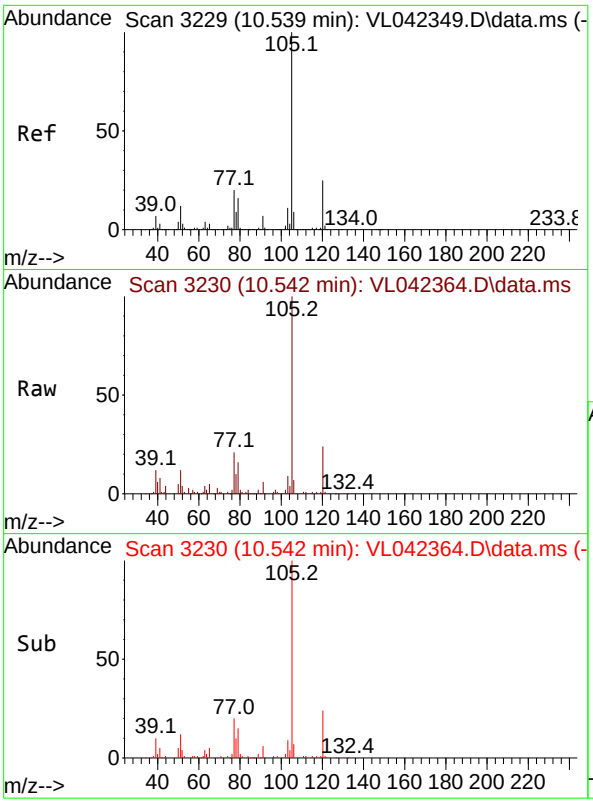


#61
Styrene
Concen: 0.609 ppbv
RT: 9.872 min Scan# 3023
Delta R.T. 0.004 min
Lab File: VL042364.D
Acq: 17 Apr 2025 18:58

Tgt Ion:104 Resp: 14156

Ion	Ratio	Lower	Upper
104	100		
78	63.7	44.6	66.8
103	48.0	37.4	56.0



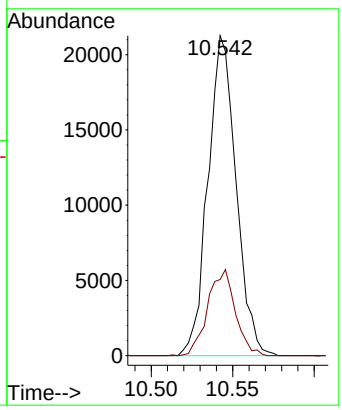


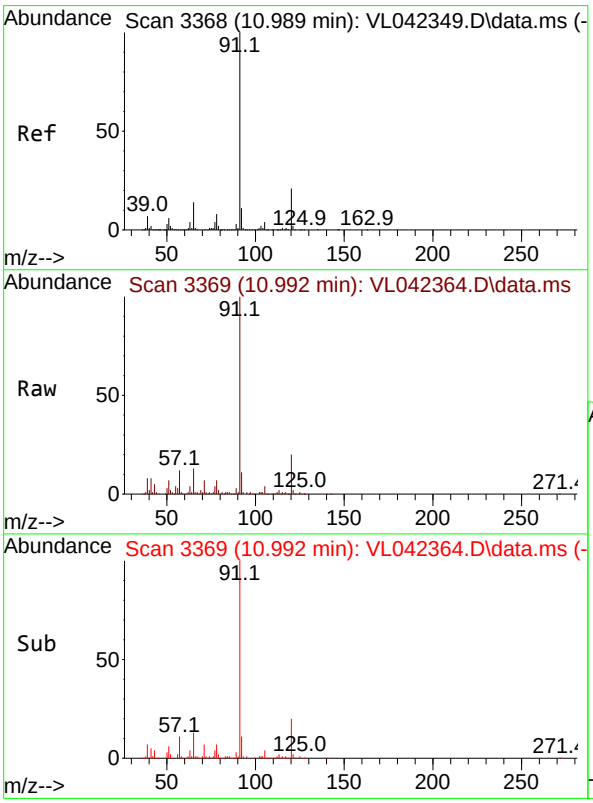
#62
Isopropylbenzene
Concen: 0.357 ppbv
RT: 10.542 min Scan# 3
Delta R.T. 0.004 min
Lab File: VL042364.D
Acq: 17 Apr 2025 18:58

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-1-3252025

Tgt Ion:105 Resp: 25514

Ion	Ratio	Lower	Upper
105	100		
120	26.4	19.8	29.8

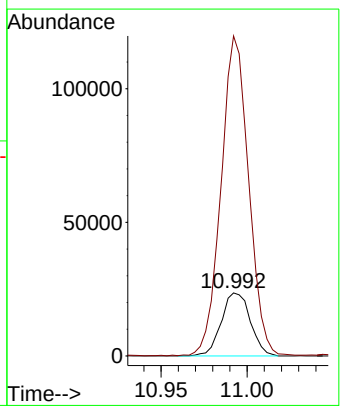


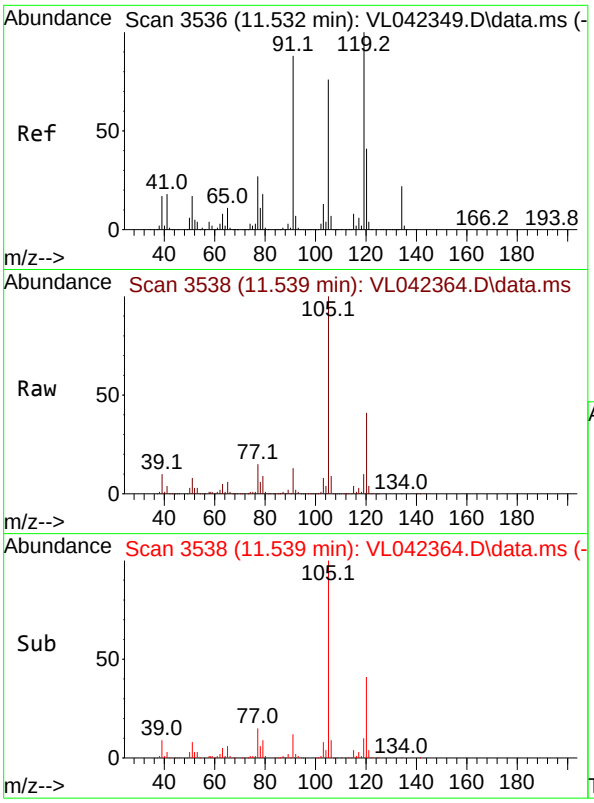


#64
n-propylbenzene
Concen: 1.536 ppbv
RT: 10.992 min Scan# 3369
Delta R.T. 0.004 min
Lab File: VL042364.D
Acq: 17 Apr 2025 18:58

Tgt Ion:120 Resp: 27632

Ion	Ratio	Lower	Upper
120	100		
91	483.8	392.4	588.6



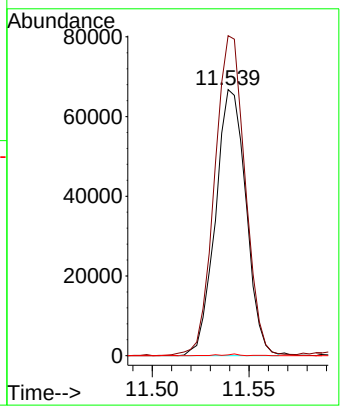


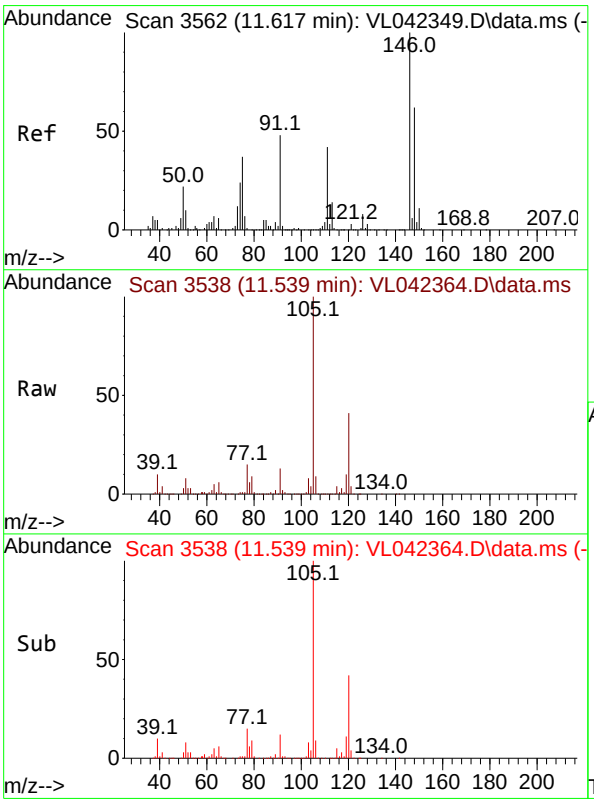
#65
tert-Butylbenzene
Concen: 1.112 ppbv
RT: 11.539 min Scan# 3
Delta R.T. 0.007 min
Lab File: VL042364.D
Acq: 17 Apr 2025 18:58

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-1-3252025

Tgt Ion:119 Resp: 73146

Ion	Ratio	Lower	Upper
119	100		
91	120.0	74.6	111.8#
134	0.4	18.8	28.2#

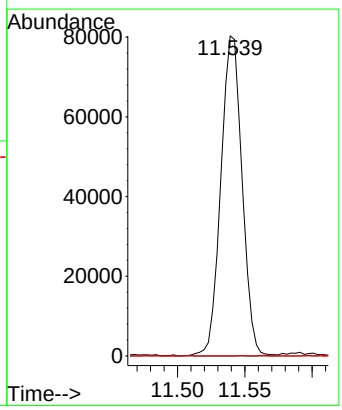


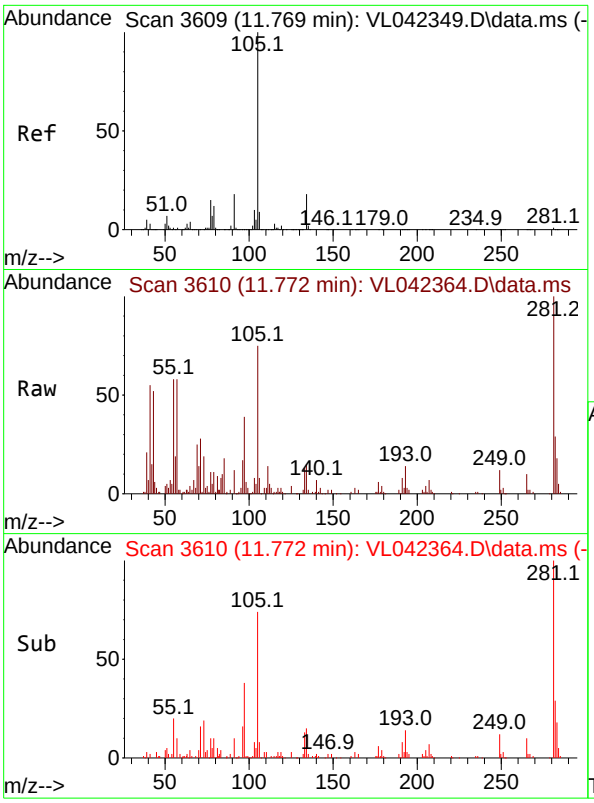


#66
Benzyl Chloride
Concen: 12.198 ppbv
RT: 11.539 min Scan# 3538
Delta R.T. -0.077 min
Lab File: VL042364.D
Acq: 17 Apr 2025 18:58

Tgt Ion: 91 Resp: 88151

Ion	Ratio	Lower	Upper
91	100		
126	0.3	11.8	17.6#
128	0.0	4.5	6.7#



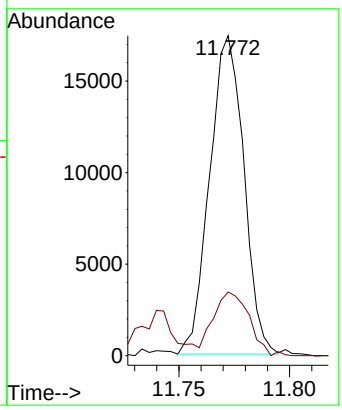


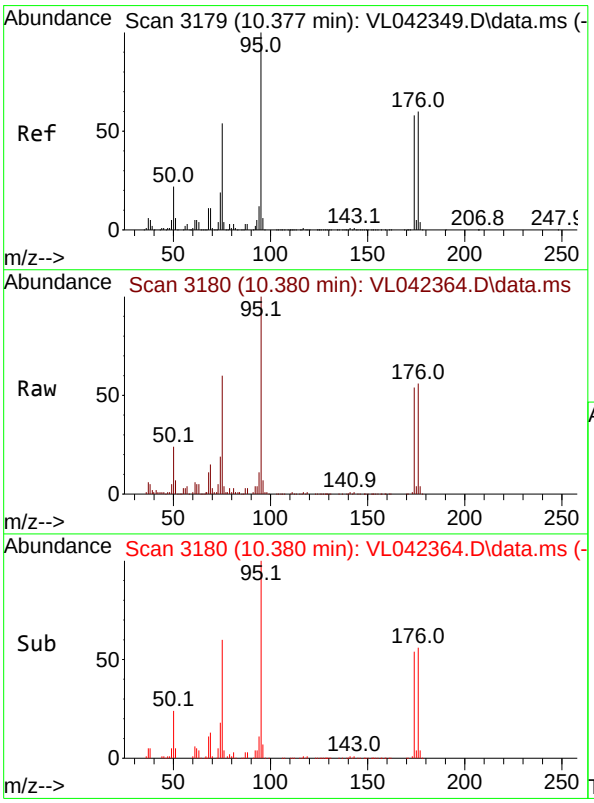
#67
sec-Butylbenzene
Concen: 0.204 ppbv
RT: 11.772 min Scan# 3
Delta R.T. 0.004 min
Lab File: VL042364.D
Acq: 17 Apr 2025 18:58

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-1-3252025

Tgt Ion:105 Resp: 18674

Ion	Ratio	Lower	Upper
105	100		
134	20.8	14.6	21.8

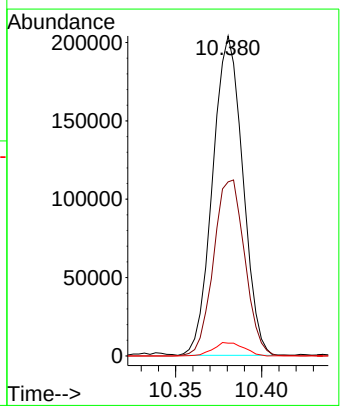


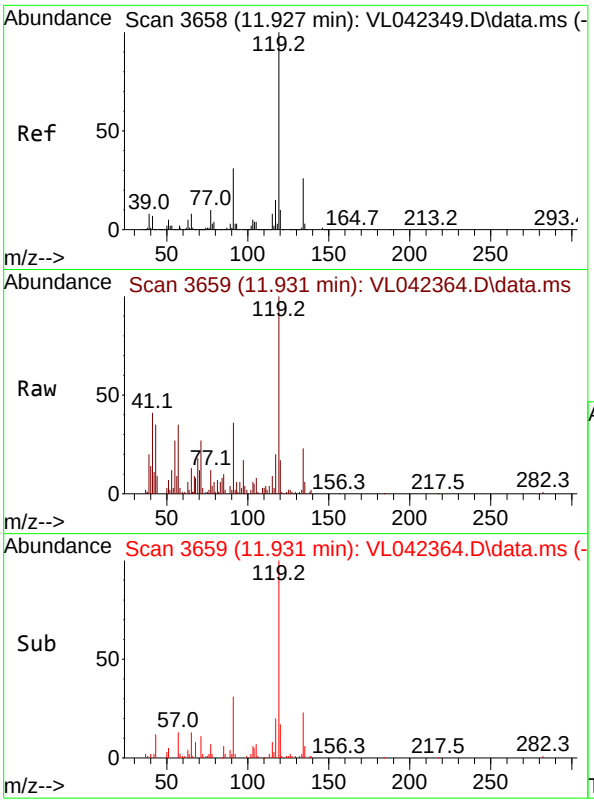


#68
1-Bromo-4-Fluorobenzene
Concen: 9.938 ppbv
RT: 10.380 min Scan# 3180
Delta R.T. 0.004 min
Lab File: VL042364.D
Acq: 17 Apr 2025 18:58

Tgt Ion: 95 Resp: 247615

Ion	Ratio	Lower	Upper
95	100		
174	57.3	48.5	72.7
175	4.3	3.7	5.5



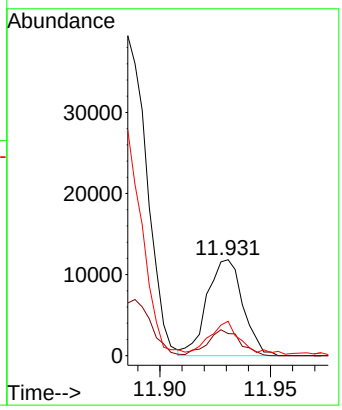


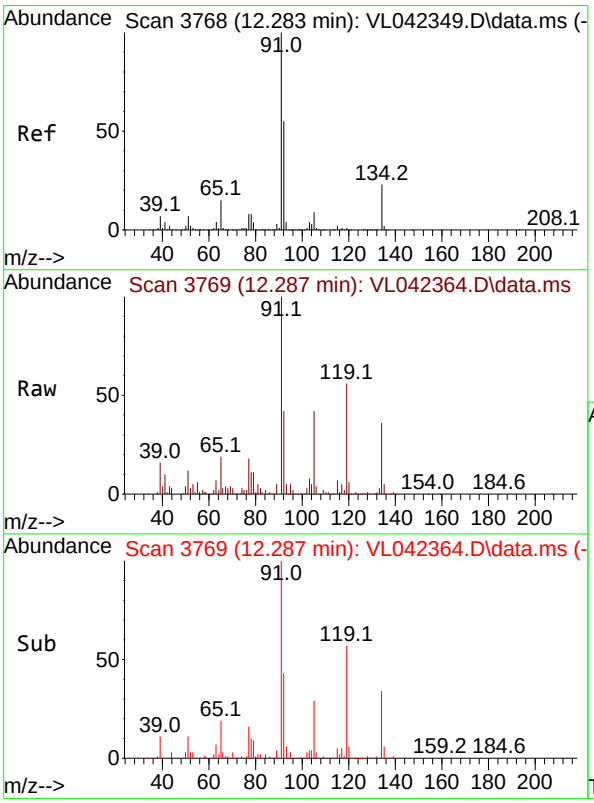
#69
p-Isopropyltoluene
Concen: 0.169 ppbv
RT: 11.931 min Scan# 3
Delta R.T. 0.004 min
Lab File: VL042364.D
Acq: 17 Apr 2025 18:58

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-1-3252025

Tgt Ion:119 Resp: 13409

Ion	Ratio	Lower	Upper
119	100		
134	24.4	20.0	30.0
91	31.1	24.4	36.6

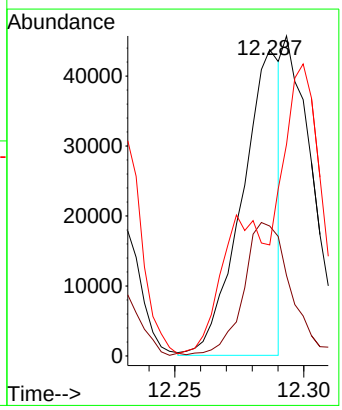


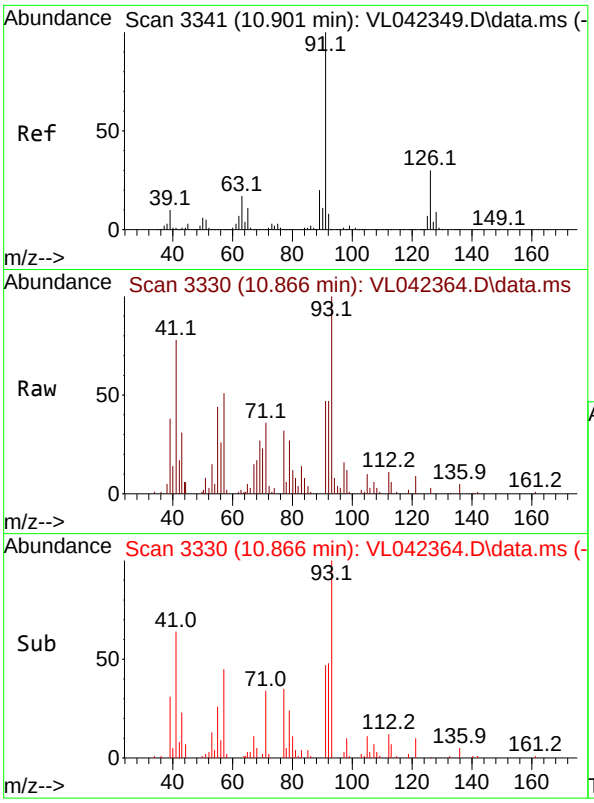


#70
n-Butylbenzene
Concen: 0.542 ppbv
RT: 12.287 min Scan# 3769
Delta R.T. 0.004 min
Lab File: VL042364.D
Acq: 17 Apr 2025 18:58

Tgt Ion: 91 Resp: 44840

Ion	Ratio	Lower	Upper
91	100		
92	54.9	44.2	66.4
134	0.0	18.2	27.4#



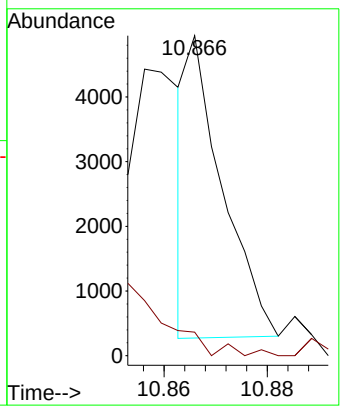


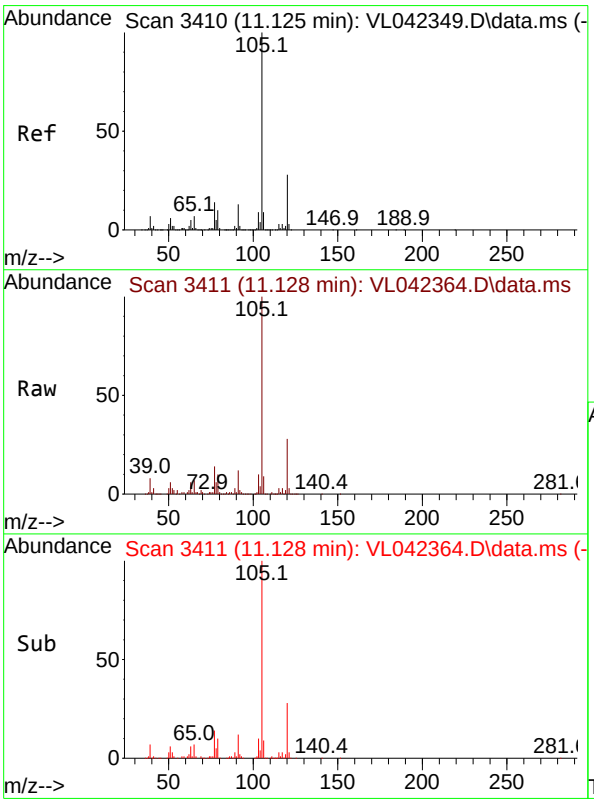
#71
2-Chlorotoluene
Concen: 0.039 ppbv
RT: 10.866 min Scan# 3
Delta R.T. -0.035 min
Lab File: VL042364.D
Acq: 17 Apr 2025 18:58

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-1-3252025

Tgt Ion: 91 Resp: 2208

Ion	Ratio	Lower	Upper
91	100		
126	16.7	11.4	45.4

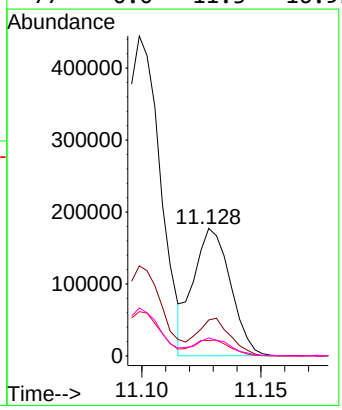


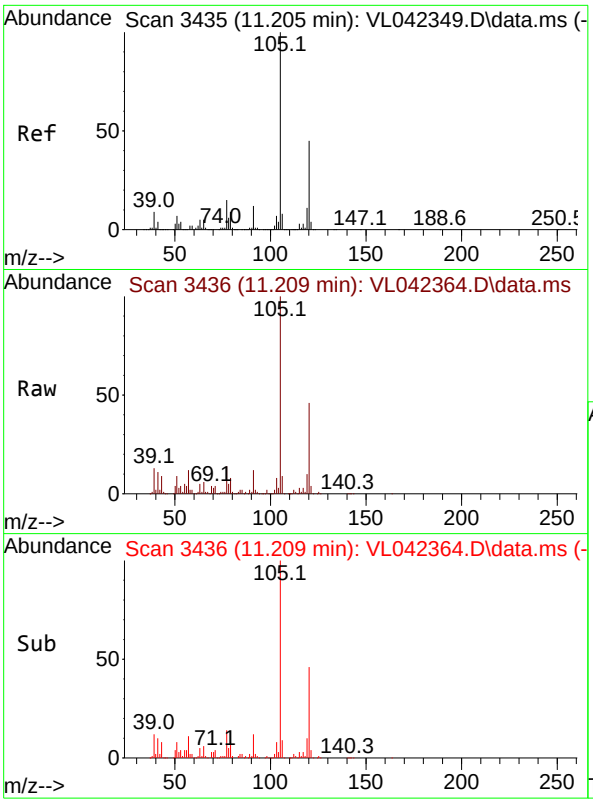


#72
4-Ethyltoluene
Concen: 3.212 ppbv
RT: 11.128 min Scan# 3411
Delta R.T. 0.004 min
Lab File: VL042364.D
Acq: 17 Apr 2025 18:58

Tgt Ion:105 Resp: 191371

Ion	Ratio	Lower	Upper
105	100		
120	0.0	23.2	34.8#
91	0.0	10.4	15.6#
77	0.0	11.3	16.9#



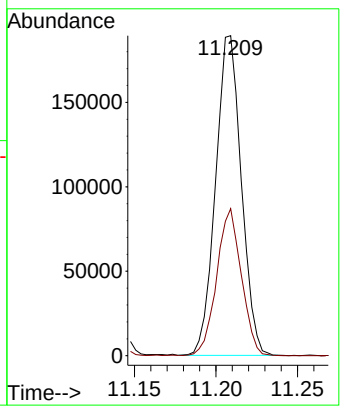


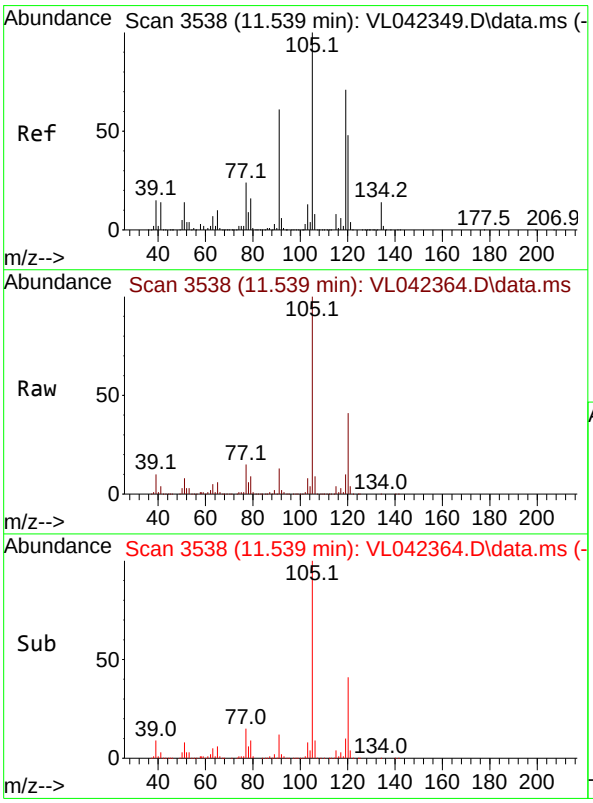
#73
1,3,5-Trimethylbenzene
Concen: 3.951 ppbv
RT: 11.209 min Scan# 3
Delta R.T. 0.004 min
Lab File: VL042364.D
Acq: 17 Apr 2025 18:58

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-1-3252025

Tgt Ion:105 Resp: 207820

Ion	Ratio	Lower	Upper
105	100		
120	45.9	35.6	53.4

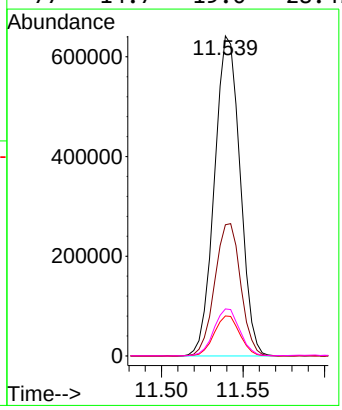


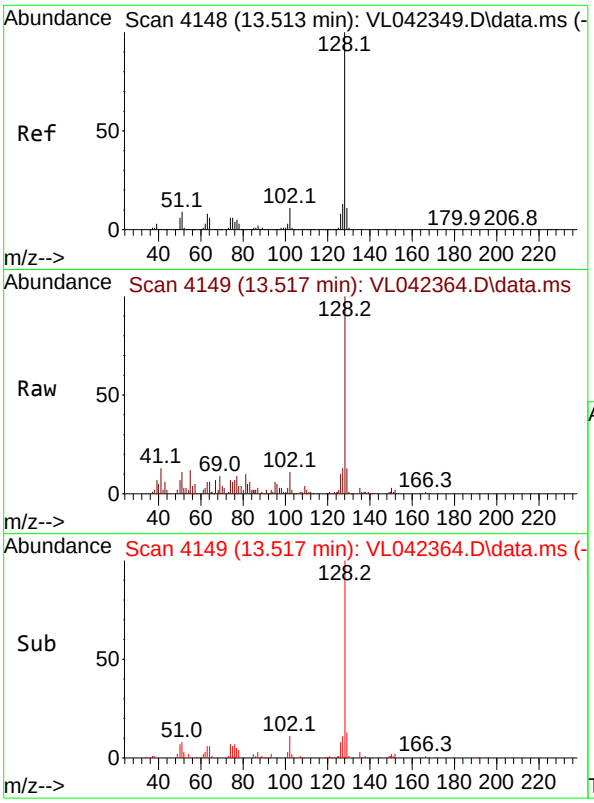


#74
1,2,4-Trimethylbenzene
Concen: 11.415 ppbv
RT: 11.539 min Scan# 3538
Delta R.T. 0.000 min
Lab File: VL042364.D
Acq: 17 Apr 2025 18:58

Tgt Ion:105 Resp: 701287

Ion	Ratio	Lower	Upper
105	100		
120	41.0	38.1	57.1
91	12.5	48.8	73.2#
77	14.7	19.0	28.4#



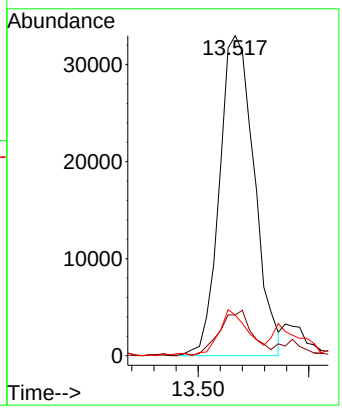


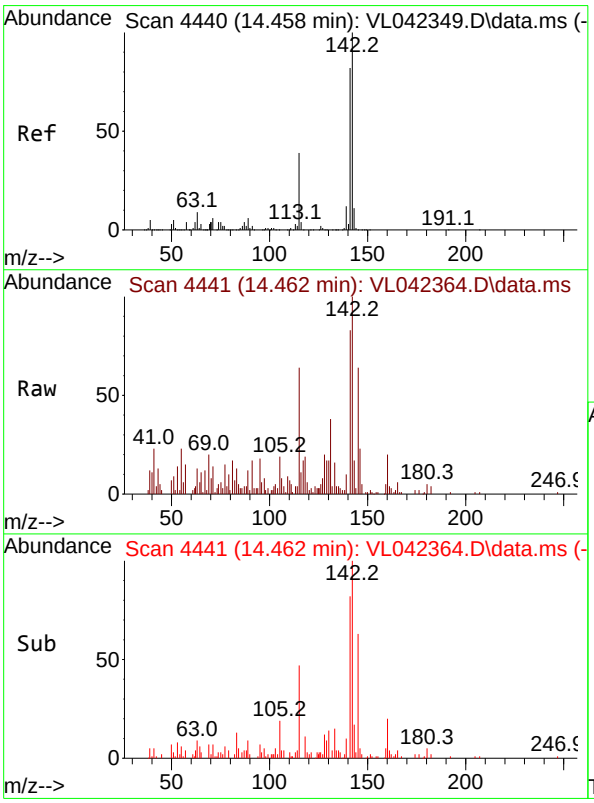
#79
Naphthalene
Concen: 0.491 ppbv
RT: 13.517 min Scan# 41
Delta R.T. 0.004 min
Lab File: VL042364.D
Acq: 17 Apr 2025 18:58

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-1-3252025

Tgt Ion:128 Resp: 36056

Ion	Ratio	Lower	Upper
128	100		
127	12.5	10.6	15.8
129	12.0	8.6	12.8

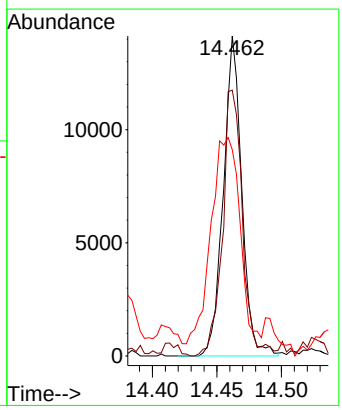




#80
Naphthalene,2-methyl-
Concen: 0.335 ppbv
RT: 14.462 min Scan# 4441
Delta R.T. 0.004 min
Lab File: VL042364.D
Acq: 17 Apr 2025 18:58

Tgt Ion:142 Resp: 14016

Ion	Ratio	Lower	Upper
142	100		
141	90.0	66.8	100.2
115	113.1	33.4	50.2#



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042365.D
Acq On : 17 Apr 2025 19:31
Operator : SY/MD
Sample : Q1668-02
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-2-3252025

Quant Time: Apr 18 02:41:43 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.787	49	121182	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.959	114	339124	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.879	117	302443	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.377	95	245115	9.863	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 98.600%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.496	85	9435	0.441	ppbv		98
3) Chlorodifluoromethane	1.476	51	9847	0.483	ppbv		99
4) Chloromethane	1.531	50	4486	0.529	ppbv		96
7) Chloroethane	1.703	64	228	0.068	ppbv		89
9) Propene	1.486	41	5899	0.635	ppbv		91
10) Heptane	4.978	43	16542	0.634	ppbv	#	21
11) Trichlorofluoromethane	2.140	101	1142	0.056	ppbv		98
12) 1,1,2-Trichlorotrifluo...	2.140	101	1142	0.069	ppbv		92
13) Ethanol	1.719	45	204918	138.854	ppbv		75
15) Acetone	1.836	43	106421	5.365	ppbv		91
16) 1,3-Butadiene	1.619	39	5278	0.556	ppbv	#	40
17) tert-Butyl alcohol	2.043	59	5385	0.219	ppbv	#	64
19) Isopropyl Alcohol	1.884	45	39284	3.565	ppbv	#	69
20) Methylene Chloride	2.062	84	10711	1.379	ppbv		95
21) Allyl Chloride	2.075	41	1247	0.091	ppbv	#	1
23) Vinyl Acetate	2.451	43	3880	0.483	ppbv	#	91
25) Ethyl Acetate	2.826	43	40360	0.825	ppbv	#	82
26) Hexane	2.823	57	53574	2.707	ppbv	#	34
27) Carbon Disulfide	2.150	76	2882	0.136	ppbv	#	62
30) Cyclohexane	3.855	84	18328	1.145	ppbv		96
34) 2-Butanone	2.561	43	15661	0.584	ppbv		94
35) Carbon Tetrachloride	3.755	117	934	0.030	ppbv	#	80
36) Benzene	3.655	78	12500	0.342	ppbv	#	87
39) 1,2-Dichloropropane	3.962	63	30515	2.239	ppbv	#	22
41) Tetrahydrofuran	3.062	42	979	0.063	ppbv	#	53
44) 2,2,4-Trimethylpentane	4.642	57	6713	0.106	ppbv	#	29
50) 4-Methyl-2-Pentanone	5.746	43	520966	11.689	ppbv		98
53) Toluene	6.930	91	61358	1.398	ppbv		98
58) Ethyl Benzene	9.354	91	56996	0.951	ppbv		97
59) m/p-Xylene	9.529	91	287156	5.949	ppbv		99
60) o-Xylene	9.960	91	110047	2.264	ppbv		100
61) Styrene	9.869	104	10782	0.465	ppbv		96
62) Isopropylbenzene	10.536	105	10773	0.151	ppbv		98
64) n-propylbenzene	10.989	120	11220	0.625	ppbv		96
65) tert-Butylbenzene	11.533	119	34565	0.527	ppbv	#	68
66) Benzyl Chloride	11.724	91	1267	0.176	ppbv	#	70
67) sec-Butylbenzene	11.769	105	8497	0.093	ppbv	#	91
69) p-Isopropyltoluene	11.924	119	6656	0.084	ppbv	#	93
70) n-Butylbenzene	12.277	91	17980	0.218	ppbv	#	65
71) 2-Chlorotoluene	11.335	91	10005	0.179	ppbv		74
72) 4-Ethyltoluene	11.125	105	77634	1.306	ppbv	#	56
73) 1,3,5-Trimethylbenzene	11.203	105	92546	1.764	ppbv		99
74) 1,2,4-Trimethylbenzene	11.536	105	330358	5.391	ppbv	#	64

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042365.D
Acq On : 17 Apr 2025 19:31
Operator : SY/MD
Sample : Q1668-02
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-2-3252025

Quant Time: Apr 18 02:41:43 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration

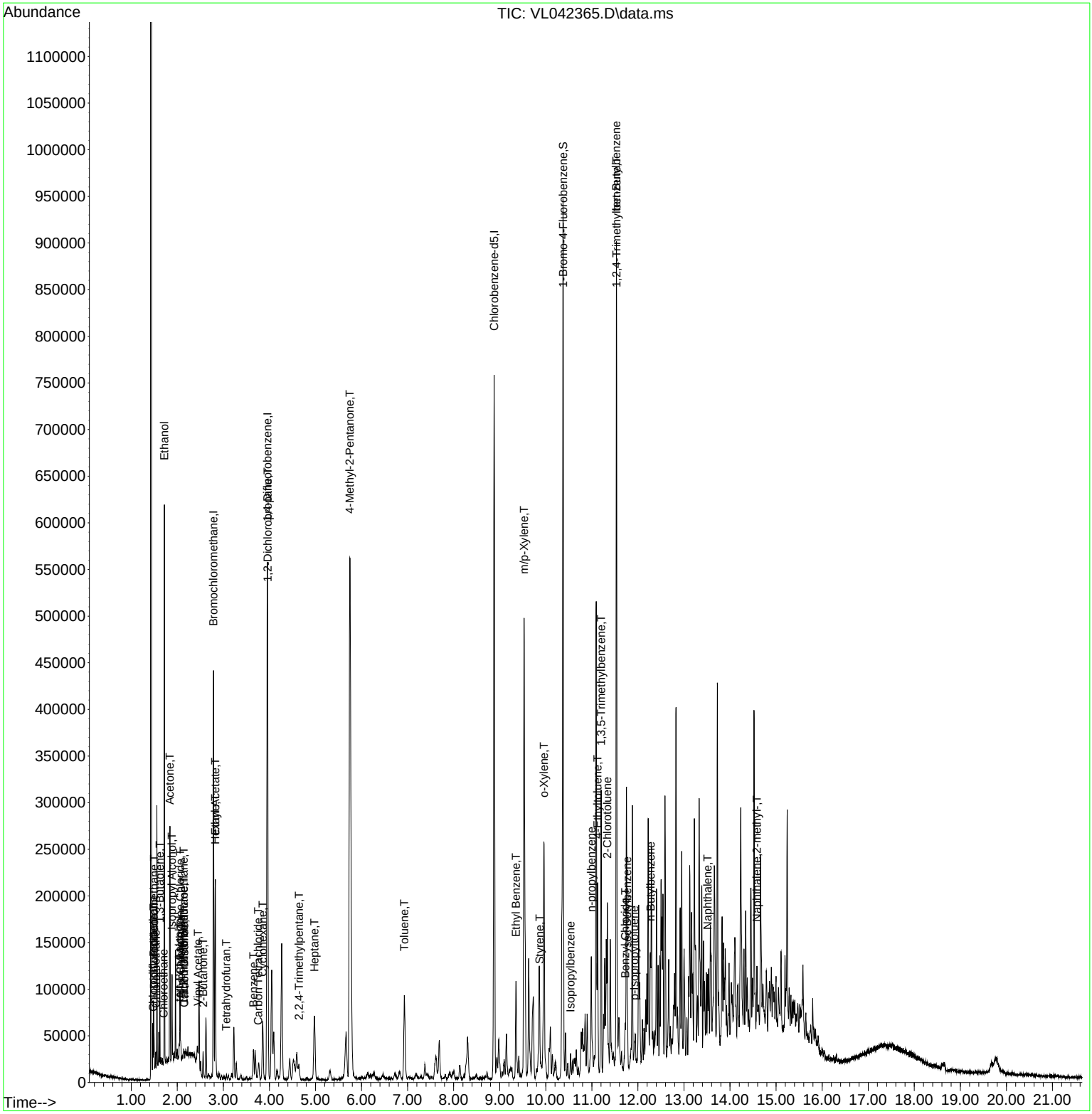
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
79) Naphthalene	13.513	128	34564	0.472	ppbv	98
80) Naphthalene,2-methyl-	14.585	142	15395	0.369	ppbv	95

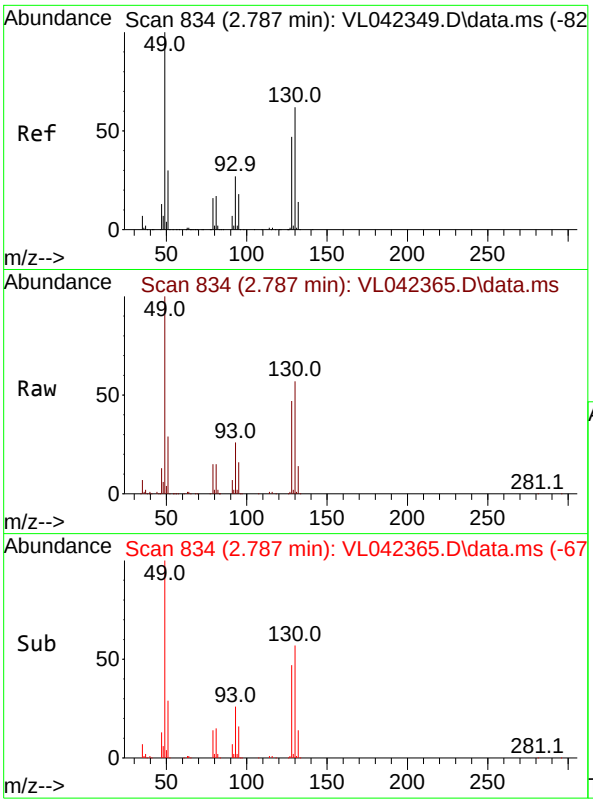
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042365.D
Acq On : 17 Apr 2025 19:31
Operator : SY/MD
Sample : Q1668-02
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-2-3252025

Quant Time: Apr 18 02:41:43 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration



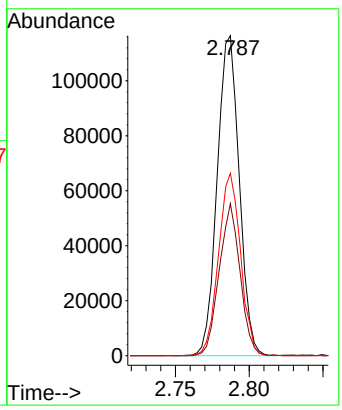


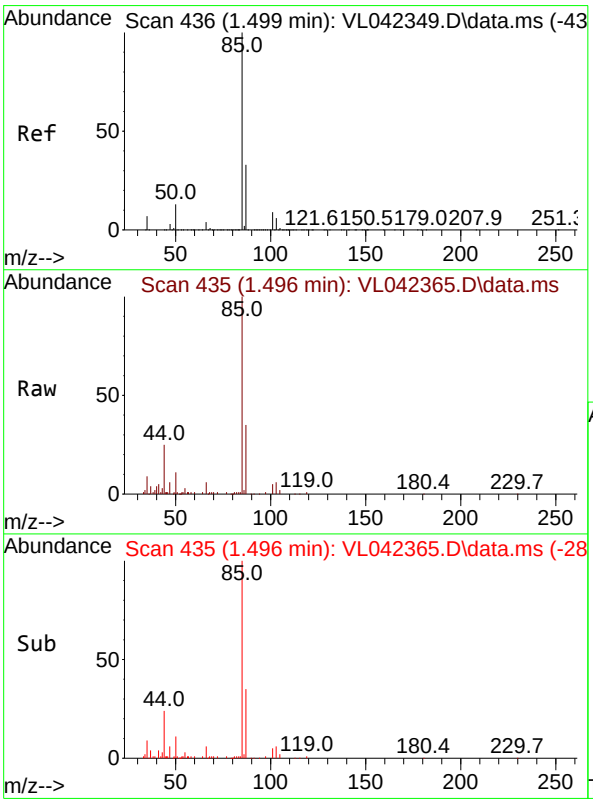
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 8
Delta R.T. 0.000 min
Lab File: VL042365.D
Acq: 17 Apr 2025 19:31

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-2-3252025

Tgt Ion: 49 Resp: 121182

Ion	Ratio	Lower	Upper
49	100		
128	45.0	22.8	68.4
130	56.9	29.3	88.0

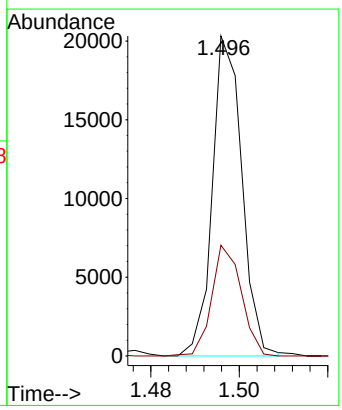


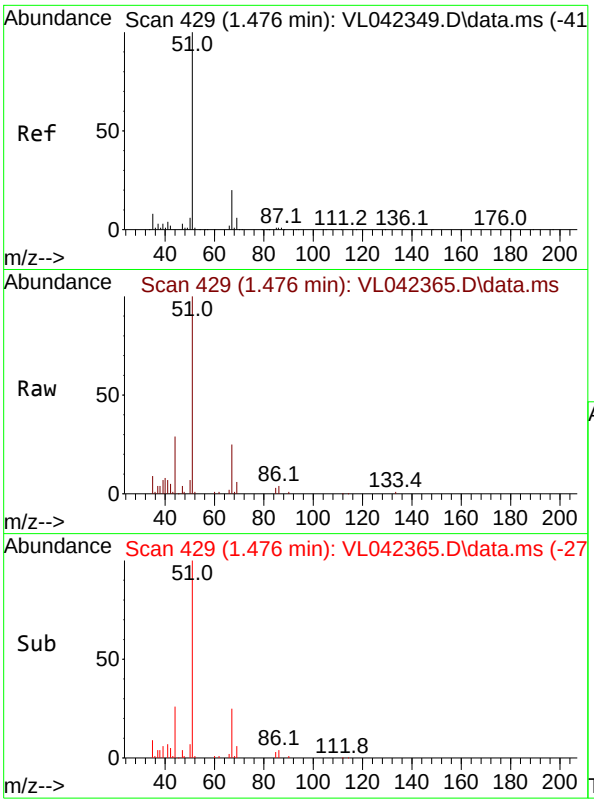


#2
Dichlorodifluoromethane
Concen: 0.441 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.003 min
Lab File: VL042365.D
Acq: 17 Apr 2025 19:31

Tgt Ion: 85 Resp: 9435

Ion	Ratio	Lower	Upper
85	100		
87	34.6	26.6	39.8



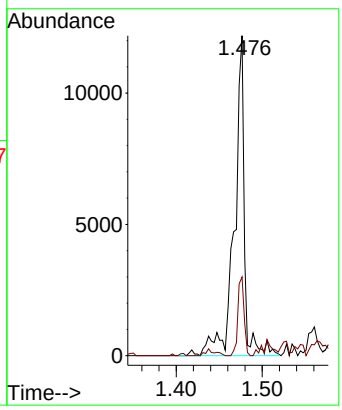


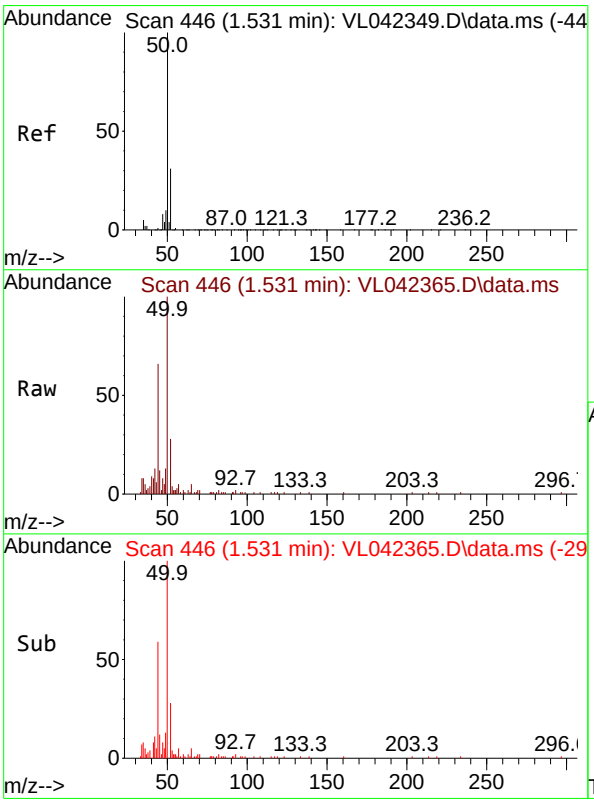
#3
Chlorodifluoromethane
Concen: 0.483 ppbv
RT: 1.476 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042365.D
Acq: 17 Apr 2025 19:31

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-2-3252025

Tgt Ion: 51 Resp: 9847

Ion	Ratio	Lower	Upper
51	100		
67	20.7	16.2	24.4

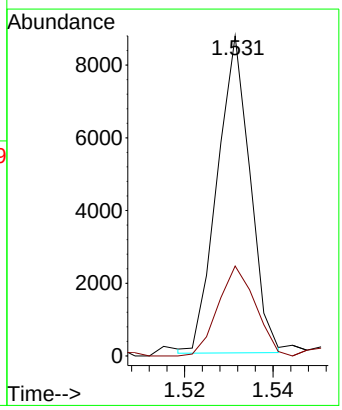


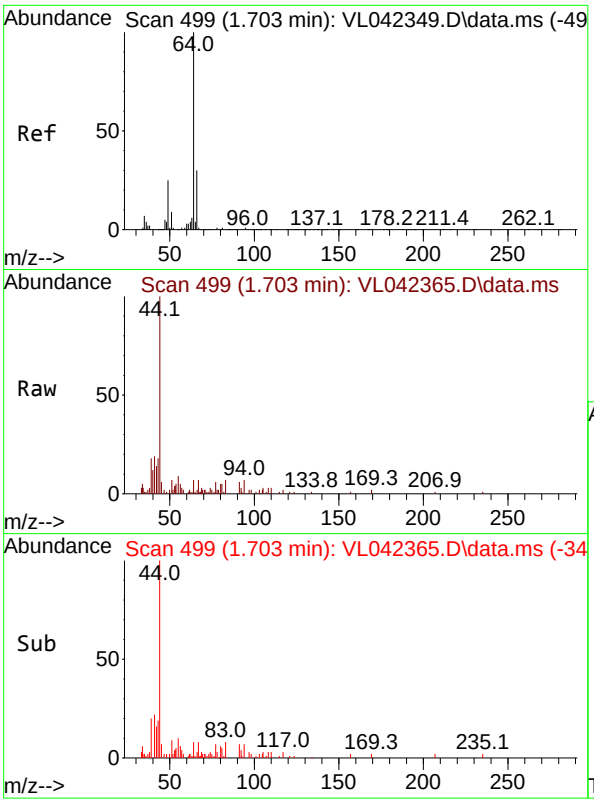


#4
Chloromethane
Concen: 0.529 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL042365.D
Acq: 17 Apr 2025 19:31

Tgt Ion: 50 Resp: 4486

Ion	Ratio	Lower	Upper
50	100		
52	28.7	24.7	37.1



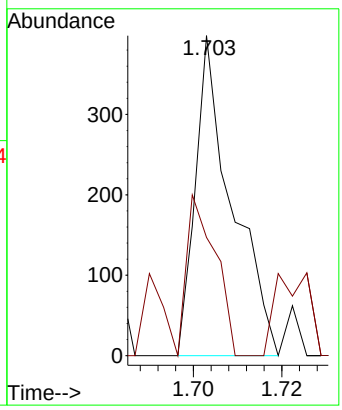


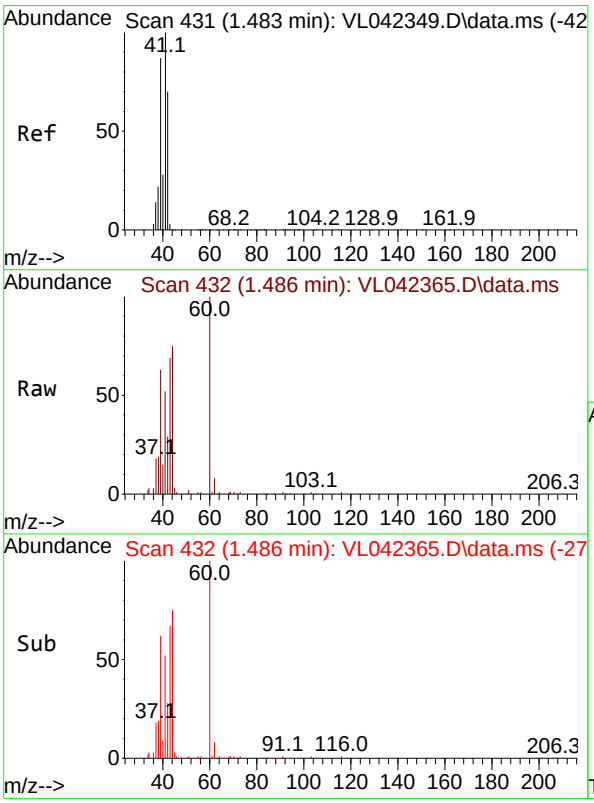
#7
Chloroethane
Concen: 0.068 ppbv
RT: 1.703 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042365.D
Acq: 17 Apr 2025 19:31

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-2-3252025

Tgt Ion: 64 Resp: 228

Ion	Ratio	Lower	Upper
64	100		
66	36.9	24.6	37.0

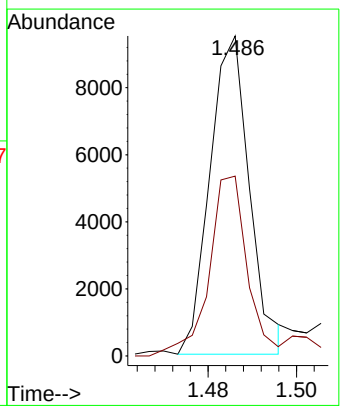


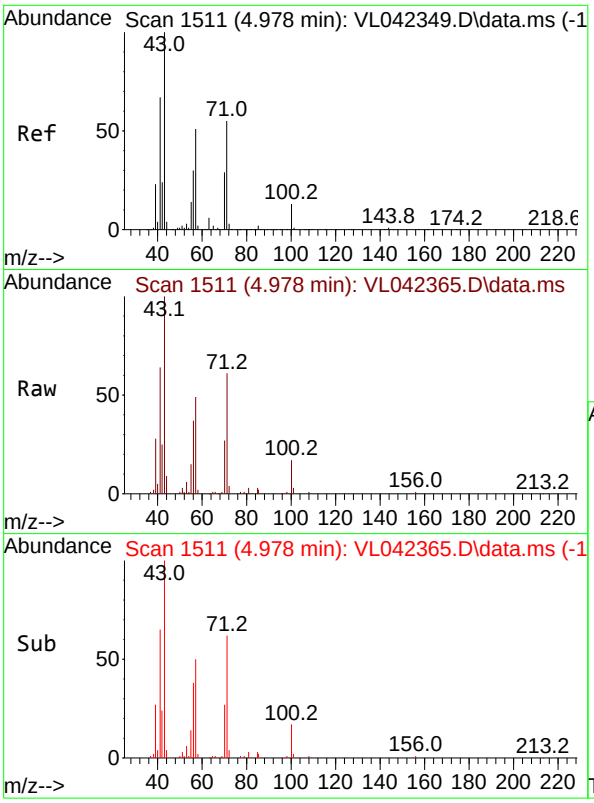


#9
Propene
Concen: 0.635 ppbv
RT: 1.486 min Scan# 432
Delta R.T. 0.004 min
Lab File: VL042365.D
Acq: 17 Apr 2025 19:31

Tgt Ion: 41 Resp: 5899

Ion	Ratio	Lower	Upper
41	100		
42	62.7	56.2	84.4



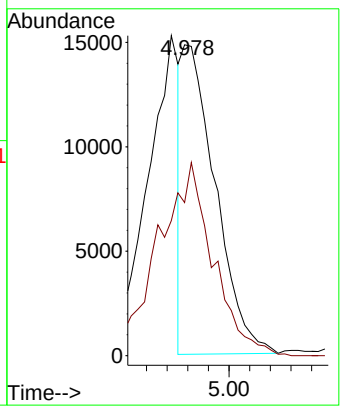


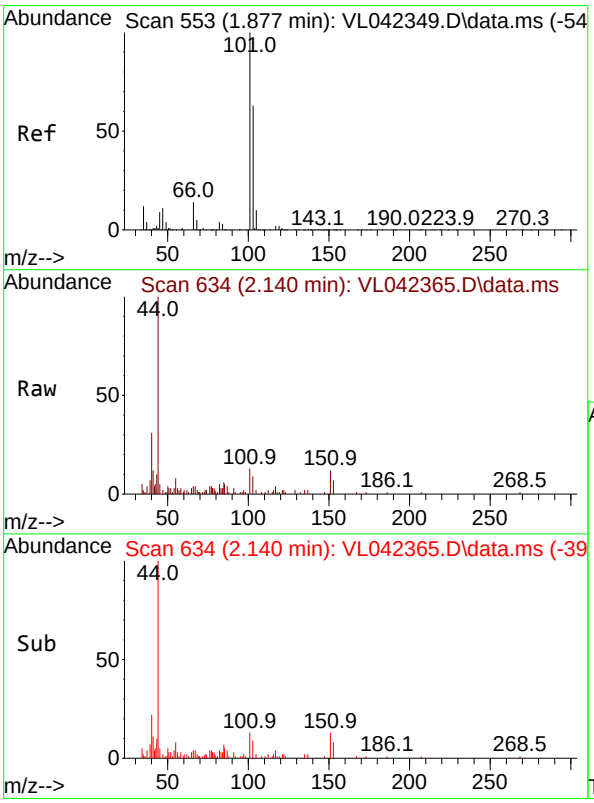
#10
Heptane
Concen: 0.634 ppbv
RT: 4.978 min Scan# 1
Delta R.T. 0.000 min
Lab File: VL042365.D
Acq: 17 Apr 2025 19:31

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-2-3252025

Tgt Ion: 43 Resp: 16542

Ion	Ratio	Lower	Upper
43	100		
57	104.0	39.9	59.9#

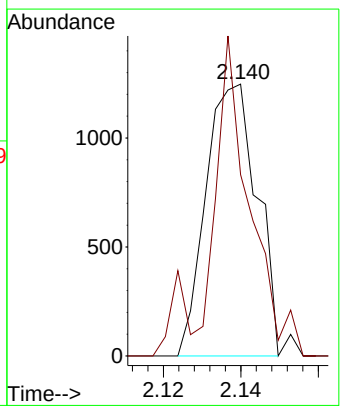


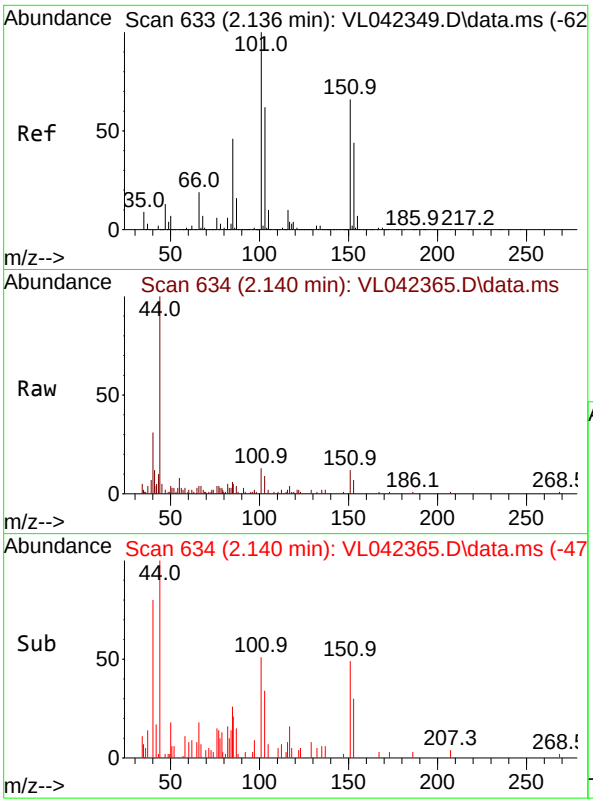


#11
Trichlorofluoromethane
Concen: 0.056 ppbv
RT: 2.140 min Scan# 634
Delta R.T. 0.262 min
Lab File: VL042365.D
Acq: 17 Apr 2025 19:31

Tgt Ion:101 Resp: 1142

Ion	Ratio	Lower	Upper
101	100		
103	60.9	50.1	75.1



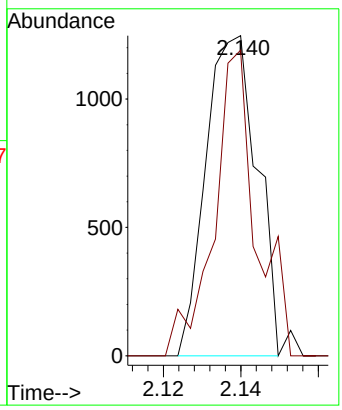


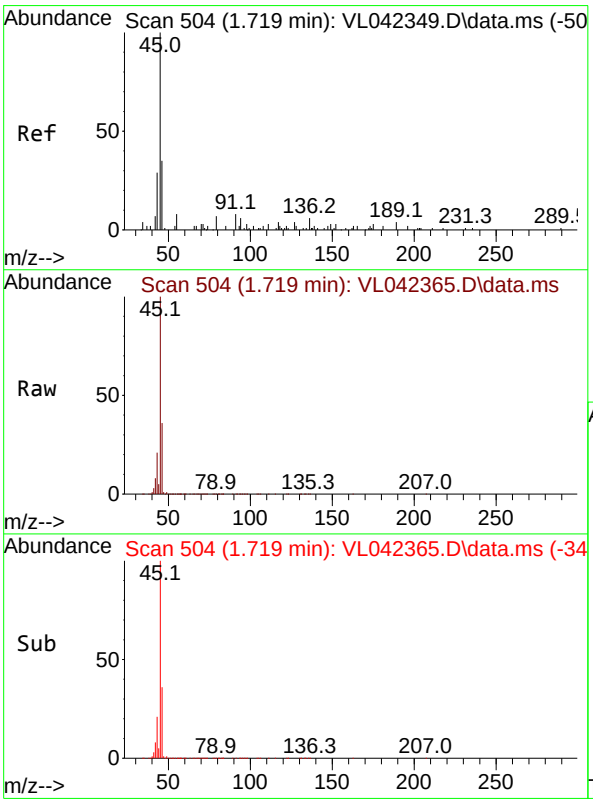
#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.069 ppbv
RT: 2.140 min Scan# 6
Delta R.T. 0.004 min
Lab File: VL042365.D
Acq: 17 Apr 2025 19:31

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-2-3252025

Tgt Ion:101 Resp: 1142

Ion	Ratio	Lower	Upper
101	100		
151	78.2	57.0	85.6

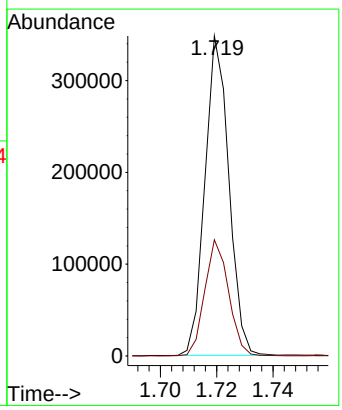


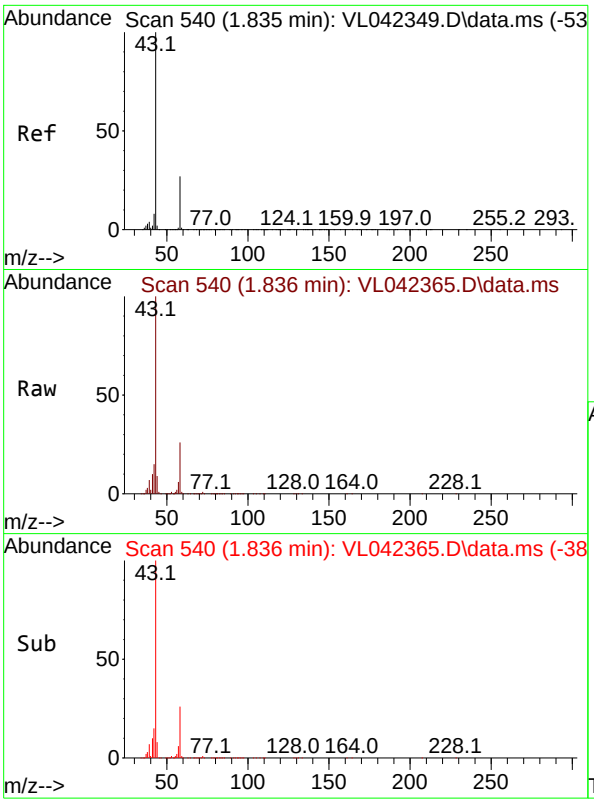


#13
Ethanol
Concen: 138.854 ppbv
RT: 1.719 min Scan# 504
Delta R.T. 0.000 min
Lab File: VL042365.D
Acq: 17 Apr 2025 19:31

Tgt Ion: 45 Resp: 204918

Ion	Ratio	Lower	Upper
45	100		
46	36.7	21.9	87.7



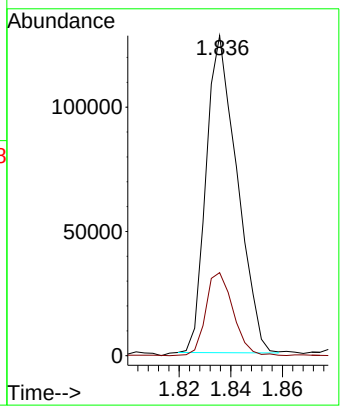


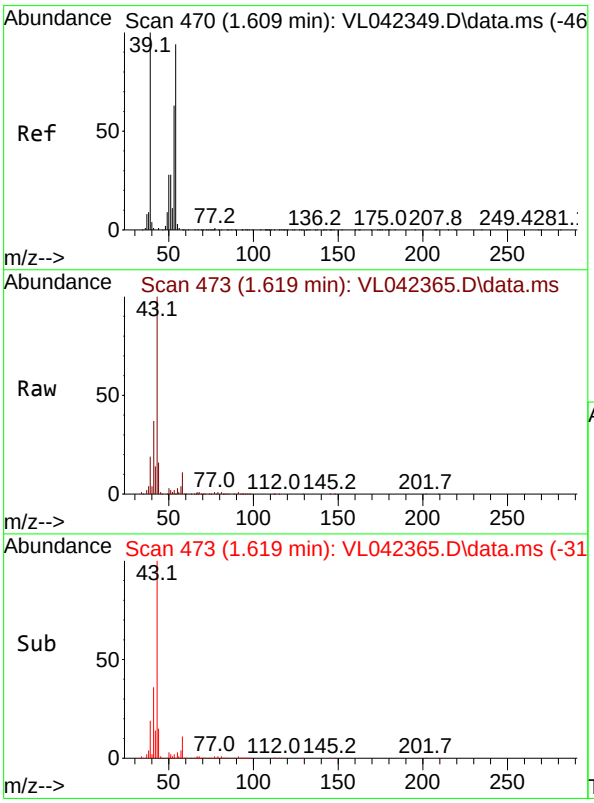
#15
Acetone
Concen: 5.365 ppbv
RT: 1.836 min Scan# 54
Delta R.T. 0.000 min
Lab File: VL042365.D
Acq: 17 Apr 2025 19:31

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-2-3252025

Tgt Ion: 43 Resp: 106421

Ion	Ratio	Lower	Upper
43	100		
58	23.2	22.4	33.6

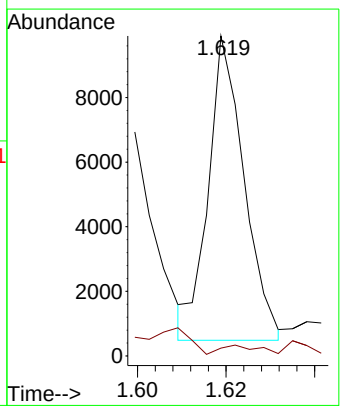


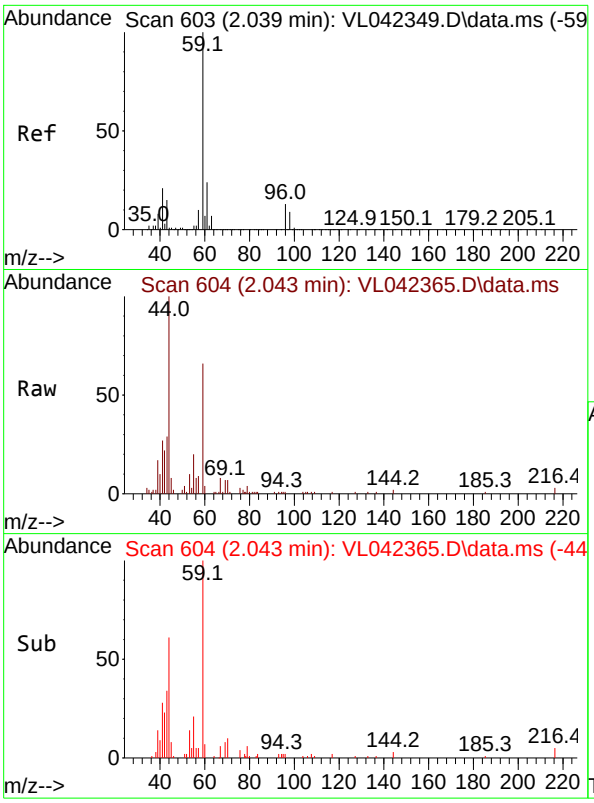


#16
1,3-Butadiene
Concen: 0.556 ppbv
RT: 1.619 min Scan# 473
Delta R.T. 0.010 min
Lab File: VL042365.D
Acq: 17 Apr 2025 19:31

Tgt Ion: 39 Resp: 5278

Ion	Ratio	Lower	Upper
39	100		
54	28.1	64.9	97.3#



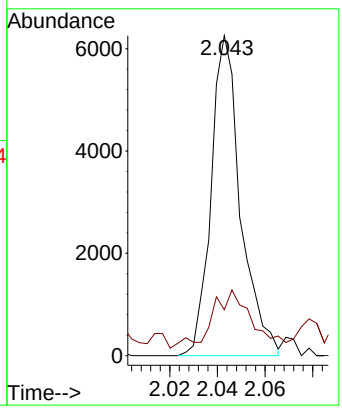


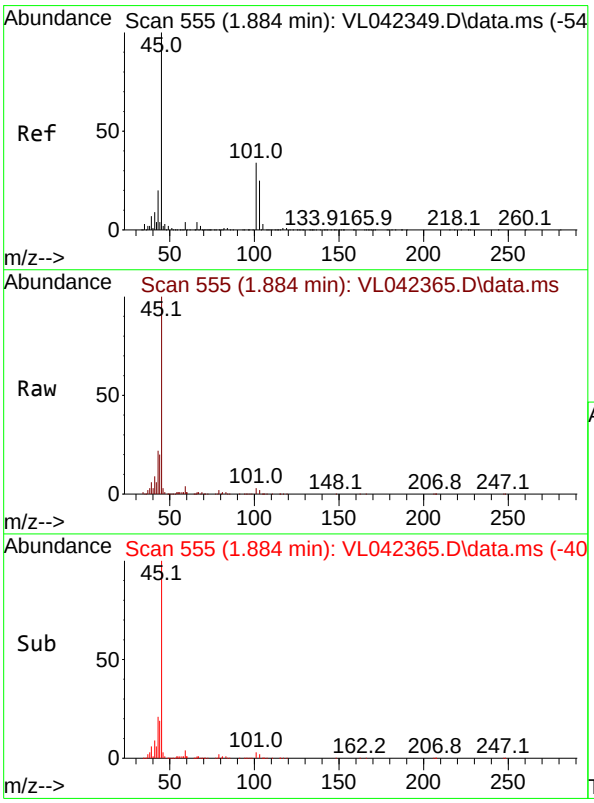
#17
tert-Butyl alcohol
Concen: 0.219 ppbv
RT: 2.043 min Scan# 6
Delta R.T. 0.004 min
Lab File: VL042365.D
Acq: 17 Apr 2025 19:31

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-2-3252025

Tgt Ion: 59 Resp: 5385

Ion	Ratio	Lower	Upper
59	100		
57	24.5	8.7	13.1#

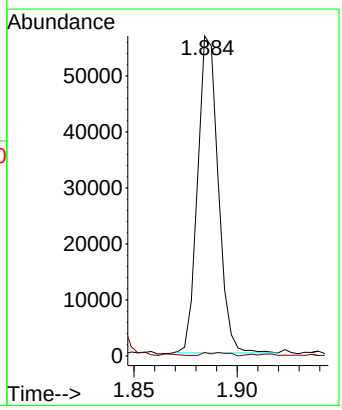


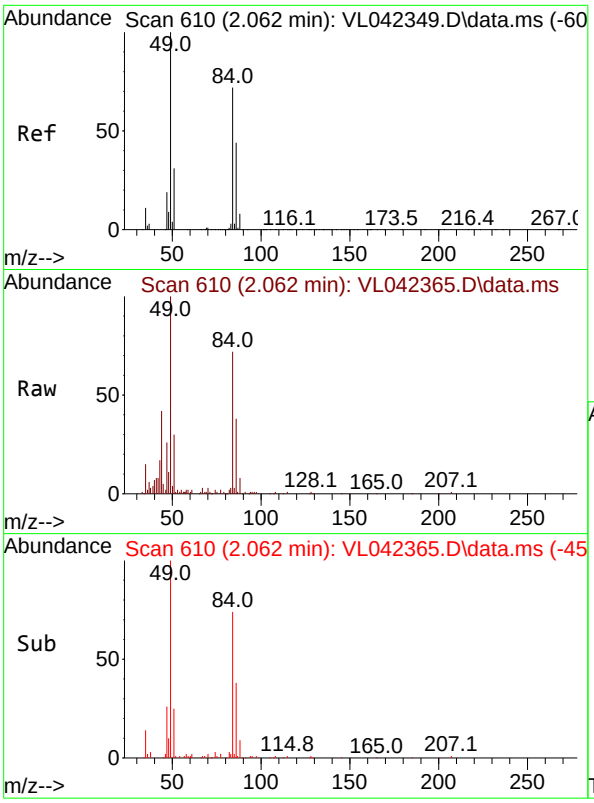


#19
Isopropyl Alcohol
Concen: 3.565 ppbv
RT: 1.884 min Scan# 555
Delta R.T. 0.000 min
Lab File: VL042365.D
Acq: 17 Apr 2025 19:31

Tgt Ion: 45 Resp: 39284

Ion	Ratio	Lower	Upper
45	100		
58	62.9	34.5	51.7#



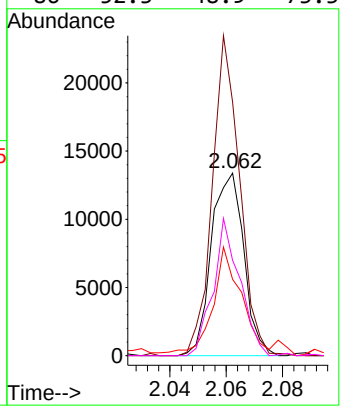


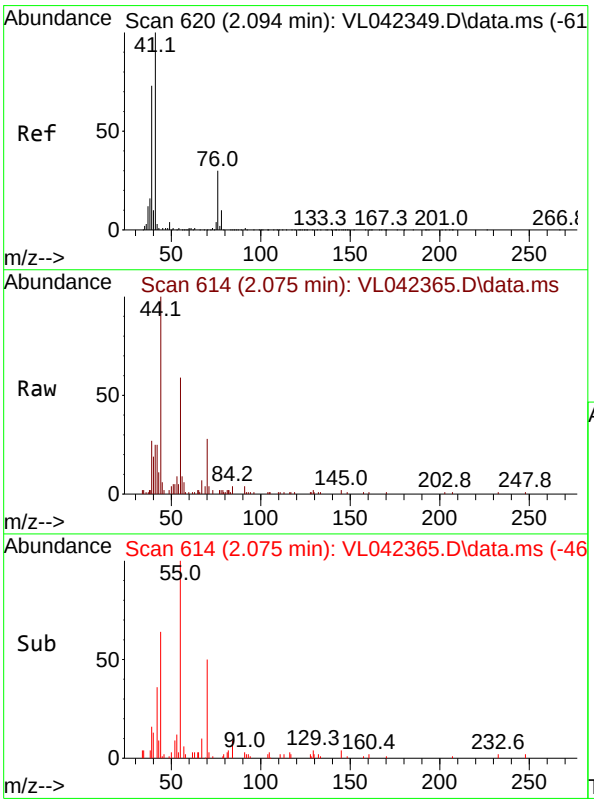
#20
Methylene Chloride
Concen: 1.379 ppbv
RT: 2.062 min Scan# 61
Delta R.T. 0.000 min
Lab File: VL042365.D
Acq: 17 Apr 2025 19:31

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-2-3252025

Tgt Ion: 84 Resp: 10711

Ion	Ratio	Lower	Upper
84	100		
49	138.9	111.6	167.4
51	38.0	35.1	52.7
86	52.3	48.9	73.3

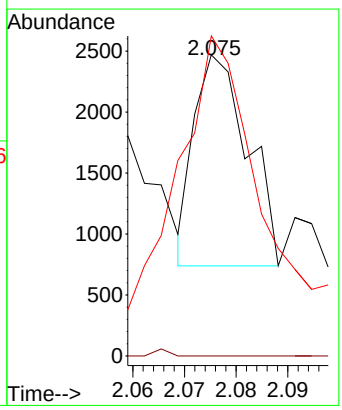


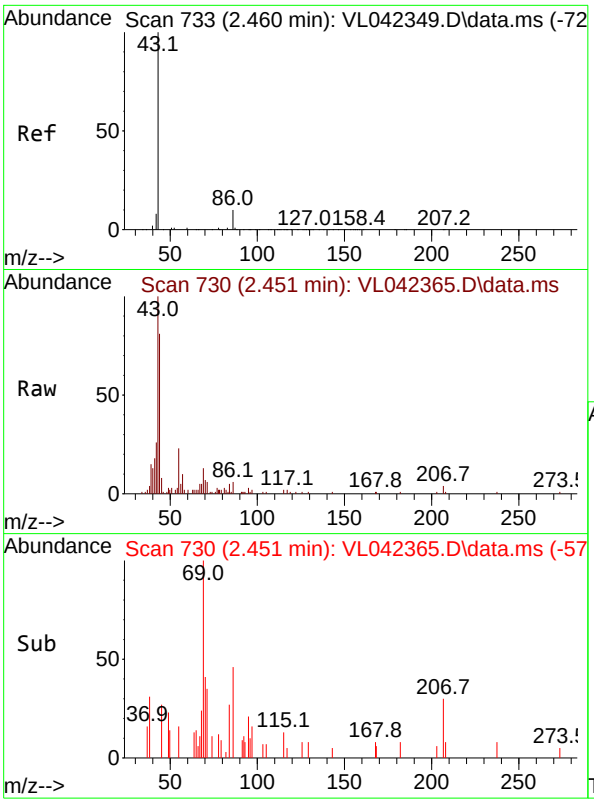


#21
Allyl Chloride
Concen: 0.091 ppbv
RT: 2.075 min Scan# 614
Delta R.T. -0.019 min
Lab File: VL042365.D
Acq: 17 Apr 2025 19:31

Tgt Ion: 41 Resp: 1247

Ion	Ratio	Lower	Upper
41	100		
76	0.0	24.8	37.2#
39	176.7	60.6	90.8#



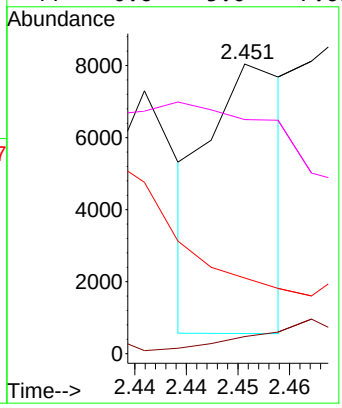


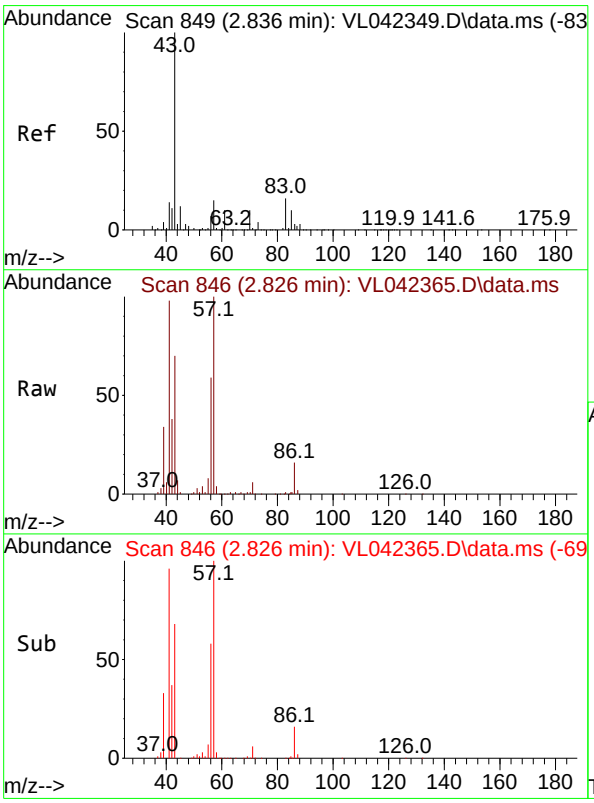
#23
Vinyl Acetate
Concen: 0.483 ppbv
RT: 2.451 min Scan# 7
Delta R.T. -0.009 min
Lab File: VL042365.D
Acq: 17 Apr 2025 19:31

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-2-3252025

Tgt Ion: 43 Resp: 3880

Ion	Ratio	Lower	Upper
43	100		
86	11.8	6.5	9.7#
42	10.7	7.8	11.8
44	0.6	5.0	7.6#

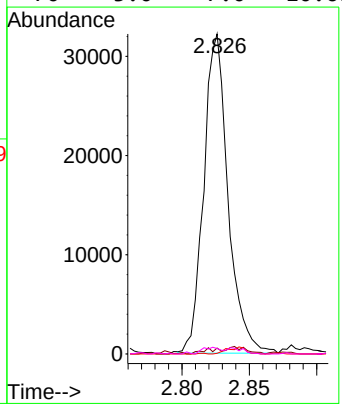


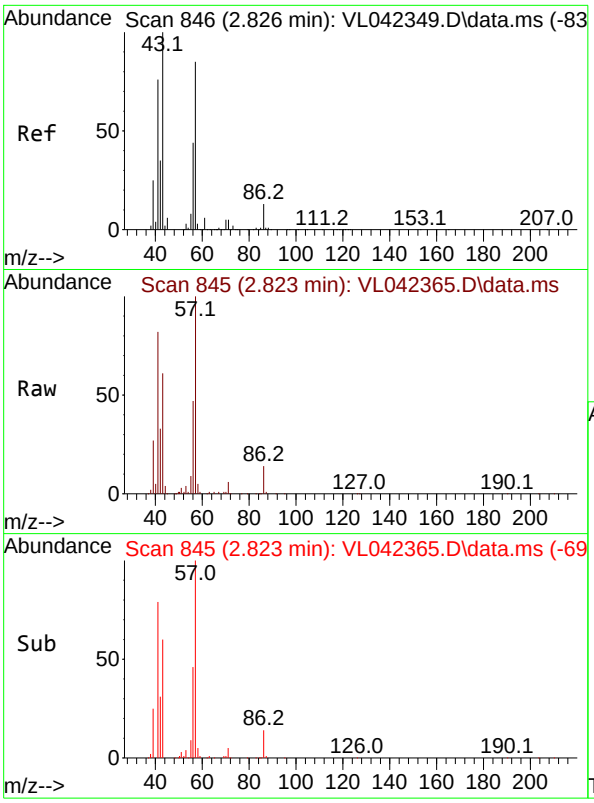


#25
Ethyl Acetate
Concen: 0.825 ppbv
RT: 2.826 min Scan# 846
Delta R.T. -0.009 min
Lab File: VL042365.D
Acq: 17 Apr 2025 19:31

Tgt Ion: 43 Resp: 40360

Ion	Ratio	Lower	Upper
43	100		
45	4.1	8.3	12.5#
61	1.8	7.3	10.9#
70	3.0	7.0	10.6#



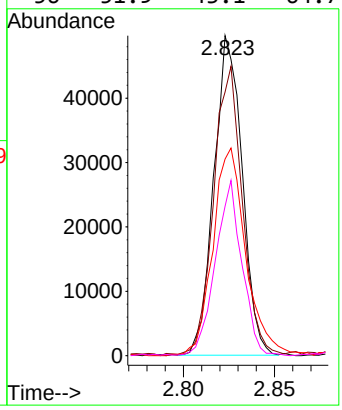


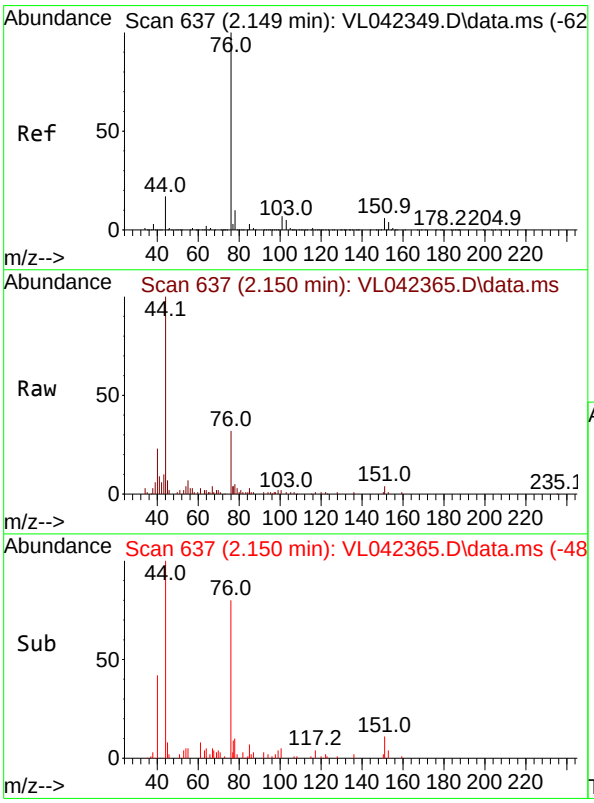
#26
Hexane
Concen: 2.707 ppbv
RT: 2.823 min Scan# 84
Delta R.T. -0.003 min
Lab File: VL042365.D
Acq: 17 Apr 2025 19:31

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-2-3252025

Tgt Ion: 57 Resp: 53574

Ion	Ratio	Lower	Upper
57	100		
41	92.2	77.9	116.9
43	78.1	208.4	312.6#
56	51.9	43.1	64.7

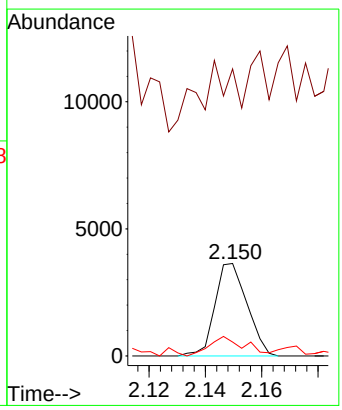


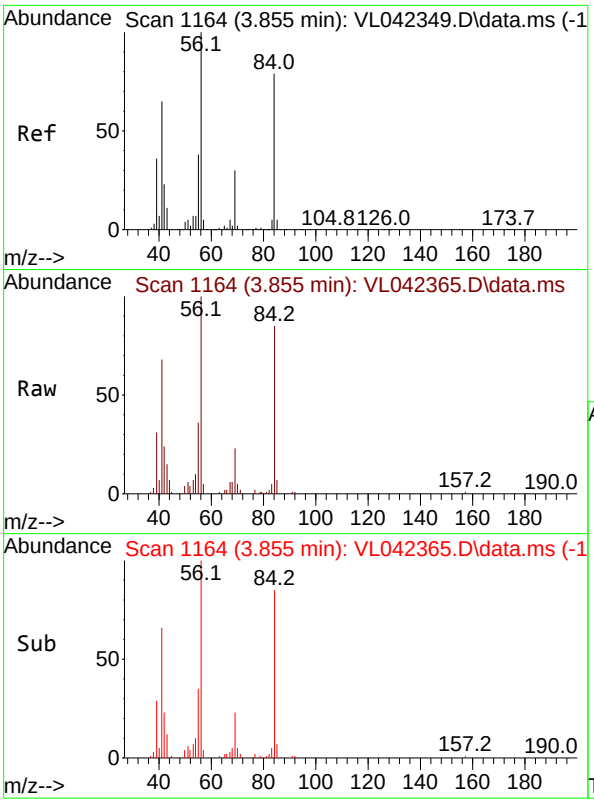


#27
Carbon Disulfide
Concen: 0.136 ppbv
RT: 2.150 min Scan# 637
Delta R.T. 0.000 min
Lab File: VL042365.D
Acq: 17 Apr 2025 19:31

Tgt Ion: 76 Resp: 2882

Ion	Ratio	Lower	Upper
76	100		
44	0.0	15.5	23.3#
78	23.0	9.3	13.9#



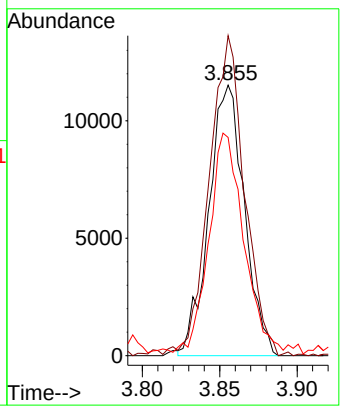


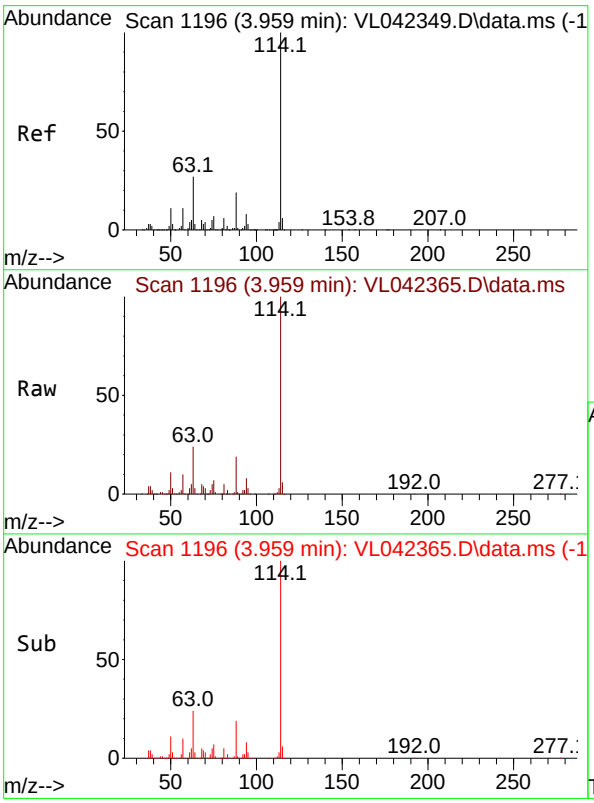
#30
Cyclohexane
Concen: 1.145 ppbv
RT: 3.855 min Scan# 11
Delta R.T. 0.000 min
Lab File: VL042365.D
Acq: 17 Apr 2025 19:31

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-2-3252025

Tgt Ion: 84 Resp: 18328

Ion	Ratio	Lower	Upper
84	100		
56	119.0	101.0	151.4
41	83.7	67.4	101.0

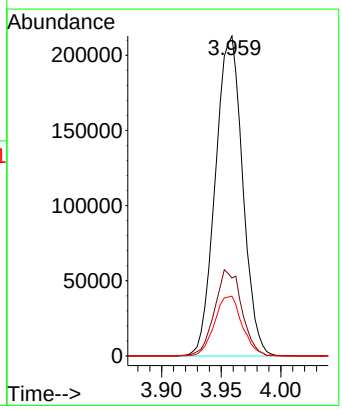


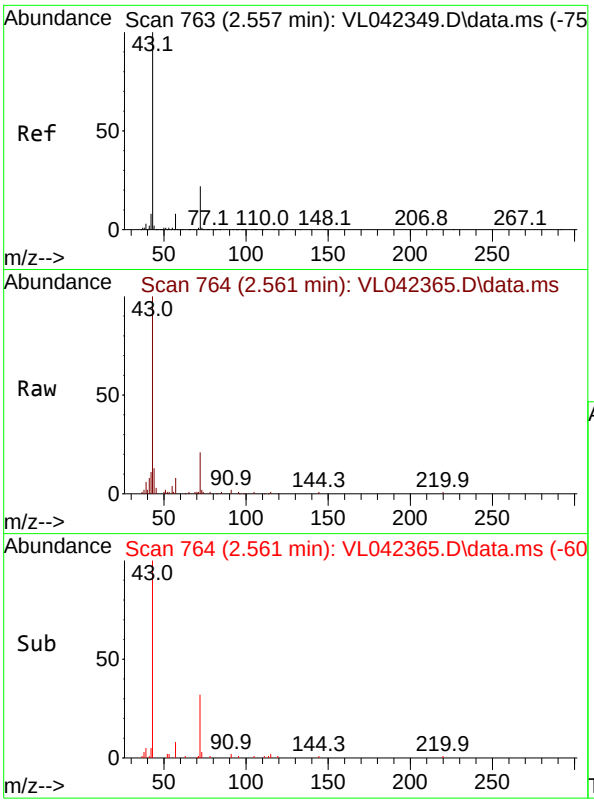


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.959 min Scan# 1196
Delta R.T. 0.000 min
Lab File: VL042365.D
Acq: 17 Apr 2025 19:31

Tgt Ion:114 Resp: 339124

Ion	Ratio	Lower	Upper
114	100		
63	26.8	21.8	32.6
88	18.9	15.5	23.3



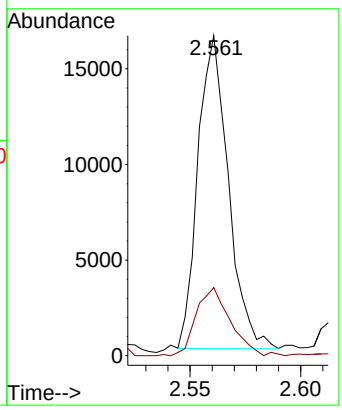


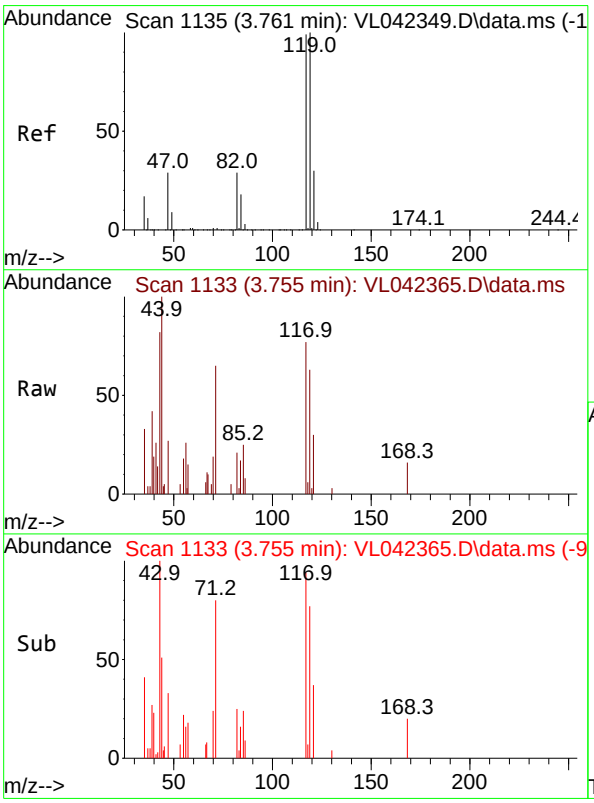
#34
2-Butanone
Concen: 0.584 ppbv
RT: 2.561 min Scan# 7
Delta R.T. 0.004 min
Lab File: VL042365.D
Acq: 17 Apr 2025 19:31

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-2-3252025

Tgt Ion: 43 Resp: 15661

Ion	Ratio	Lower	Upper
43	100		
72	25.5	18.2	27.2

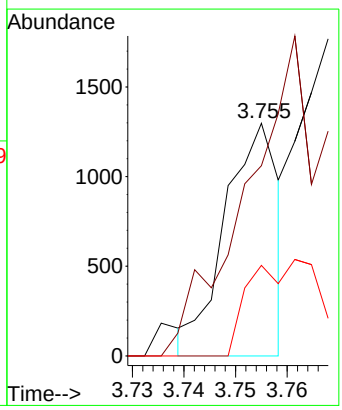


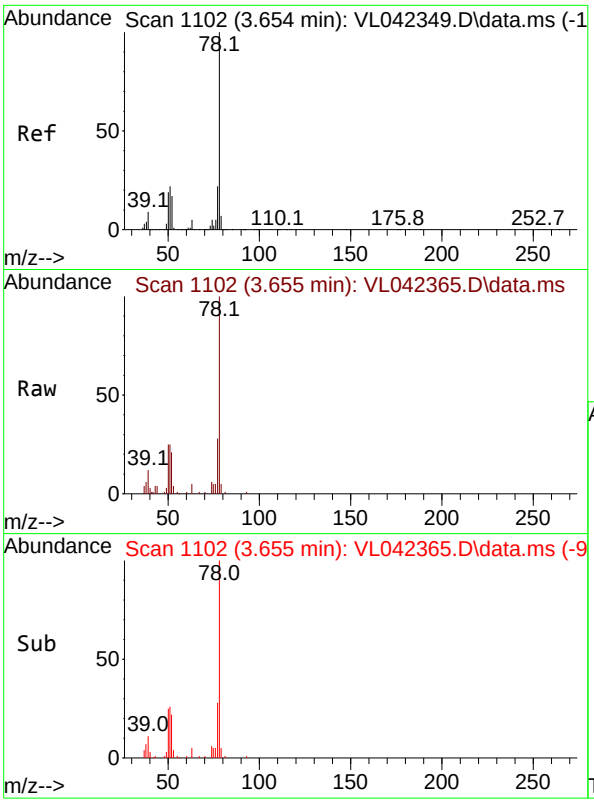


#35
Carbon Tetrachloride
Concen: 0.030 ppbv
RT: 3.755 min Scan# 1133
Delta R.T. -0.006 min
Lab File: VL042365.D
Acq: 17 Apr 2025 19:31

Tgt Ion:117 Resp: 934

Ion	Ratio	Lower	Upper
117	100		
119	81.7	80.5	120.7
121	44.2	24.2	36.2#



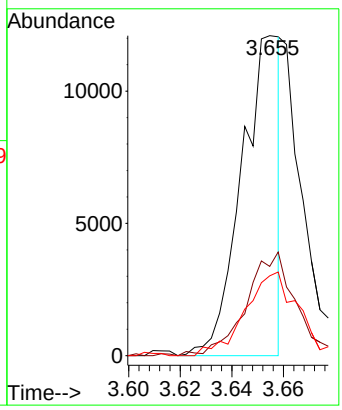


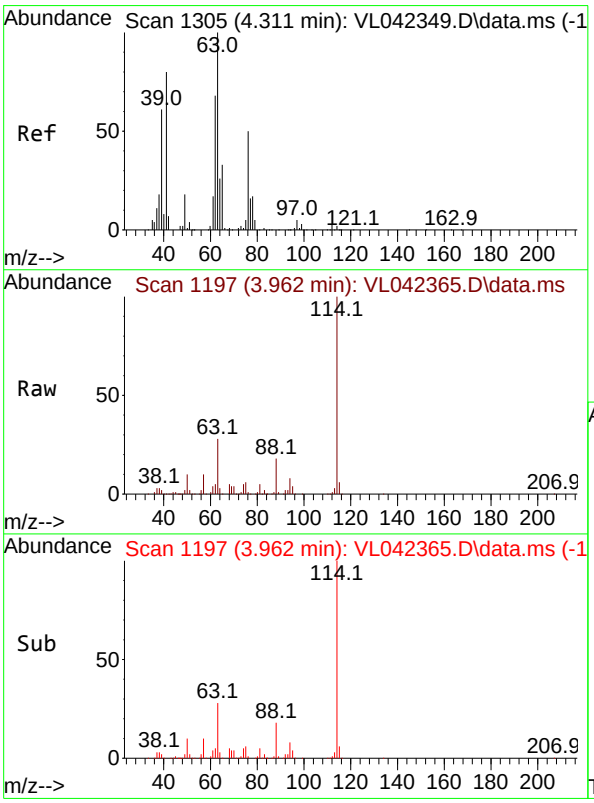
#36
Benzene
Concen: 0.342 ppbv
RT: 3.655 min Scan# 11
Delta R.T. 0.000 min
Lab File: VL042365.D
Acq: 17 Apr 2025 19:31

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-2-3252025

Tgt Ion: 78 Resp: 12500

Ion	Ratio	Lower	Upper
78	100		
77	27.9	17.4	26.0#
50	25.0	15.5	23.3#

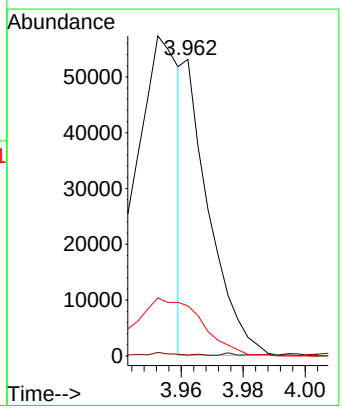


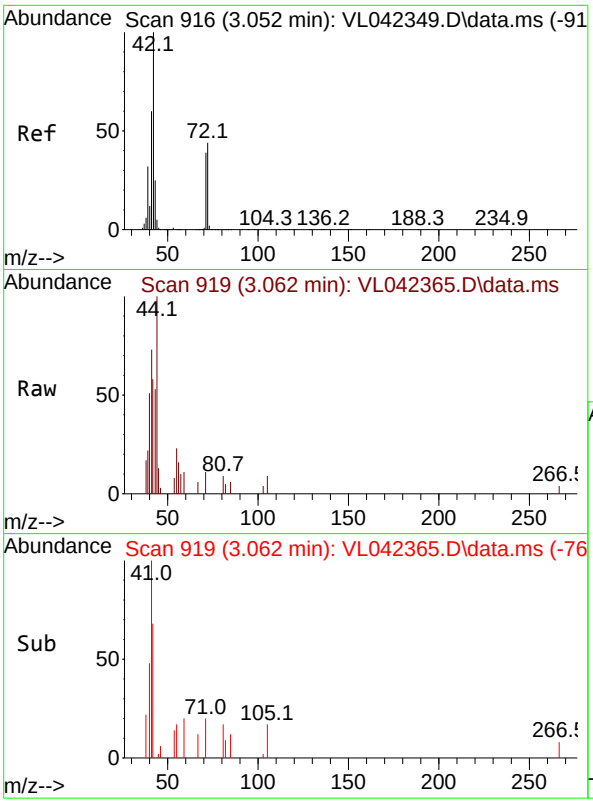


#39
1,2-Dichloropropane
Concen: 2.239 ppbv
RT: 3.962 min Scan# 1197
Delta R.T. -0.349 min
Lab File: VL042365.D
Acq: 17 Apr 2025 19:31

Tgt Ion: 63 Resp: 30515

Ion	Ratio	Lower	Upper
63	100		
41	0.2	64.2	96.2#
62	17.0	54.3	81.5#



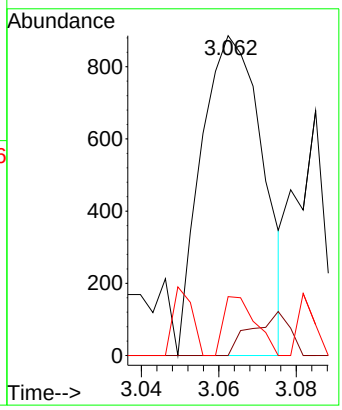


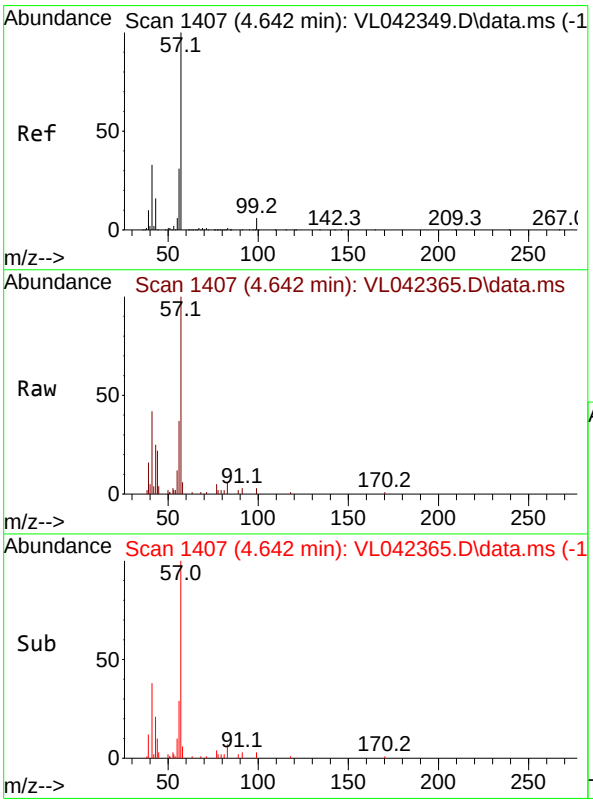
#41
Tetrahydrofuran
Concen: 0.063 ppbv
RT: 3.062 min Scan# 91
Delta R.T. 0.010 min
Lab File: VL042365.D
Acq: 17 Apr 2025 19:31

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-2-3252025

Tgt Ion: 42 Resp: 979

Ion	Ratio	Lower	Upper
42	100		
72	0.0	32.3	48.5#
71	21.3	31.4	47.2#

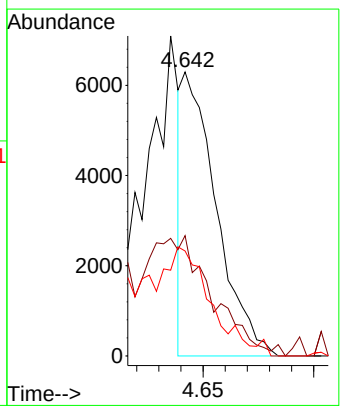


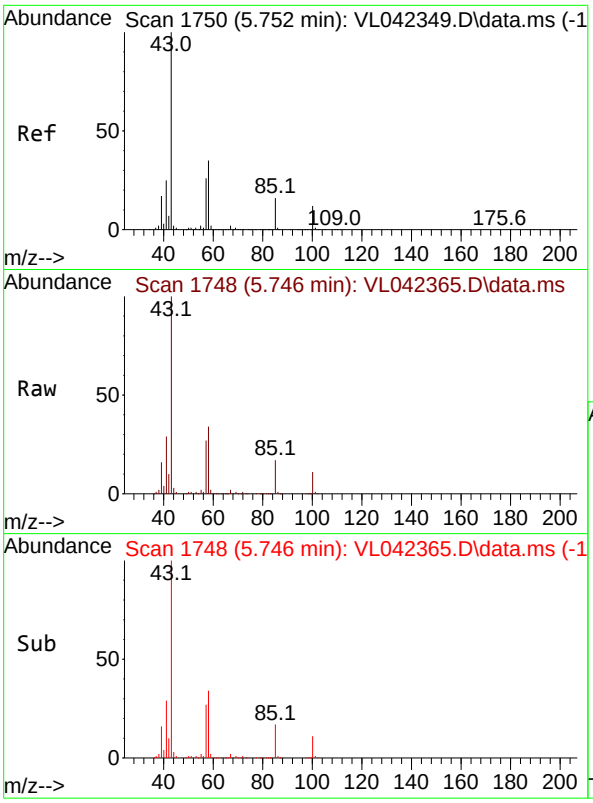


#44
2,2,4-Trimethylpentane
Concen: 0.106 ppbv
RT: 4.642 min Scan# 1407
Delta R.T. 0.000 min
Lab File: VL042365.D
Acq: 17 Apr 2025 19:31

Tgt Ion: 57 Resp: 6713

Ion	Ratio	Lower	Upper
57	100		
41	80.2	27.2	40.8#
56	66.3	25.7	38.5#



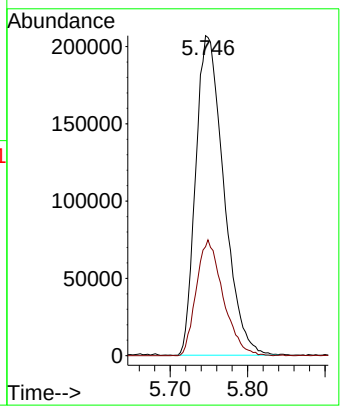


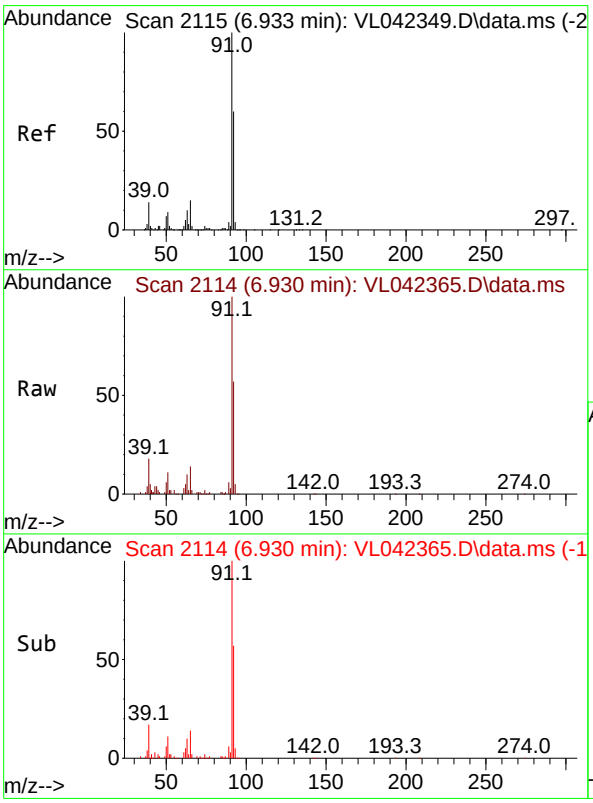
#50
4-Methyl-2-Pentanone
Concen: 11.689 ppbv
RT: 5.746 min Scan# 1
Delta R.T. -0.006 min
Lab File: VL042365.D
Acq: 17 Apr 2025 19:31

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-2-3252025

Tgt Ion: 43 Resp: 520966

Ion	Ratio	Lower	Upper
43	100		
58	34.7	28.6	43.0

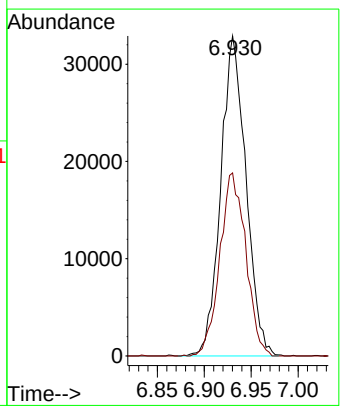


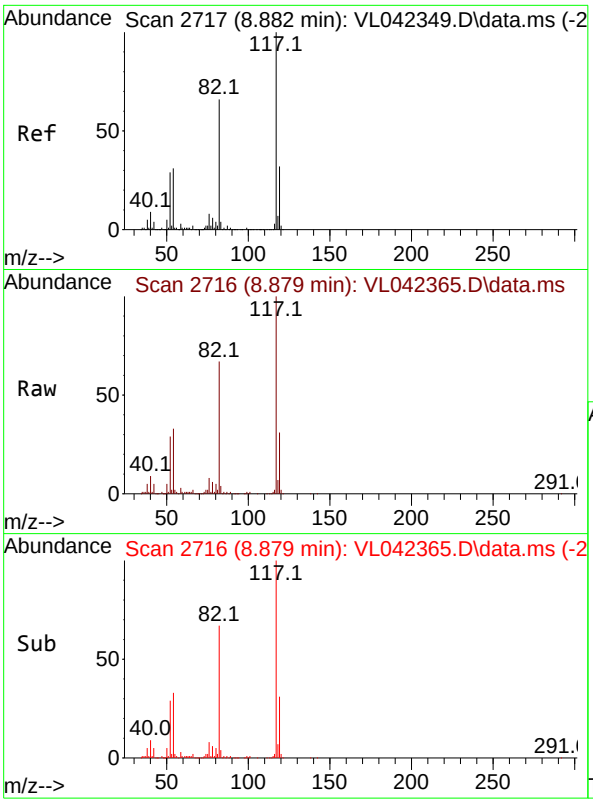


#53
Toluene
Concen: 1.398 ppbv
RT: 6.930 min Scan# 2114
Delta R.T. -0.003 min
Lab File: VL042365.D
Acq: 17 Apr 2025 19:31

Tgt Ion: 91 Resp: 61358

Ion	Ratio	Lower	Upper
91	100		
92	58.9	48.2	72.4



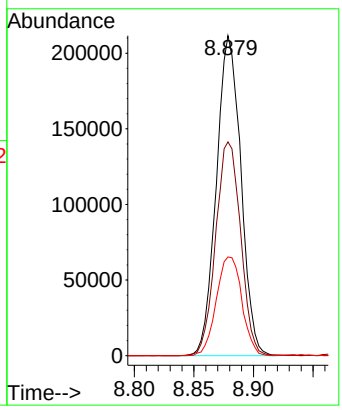


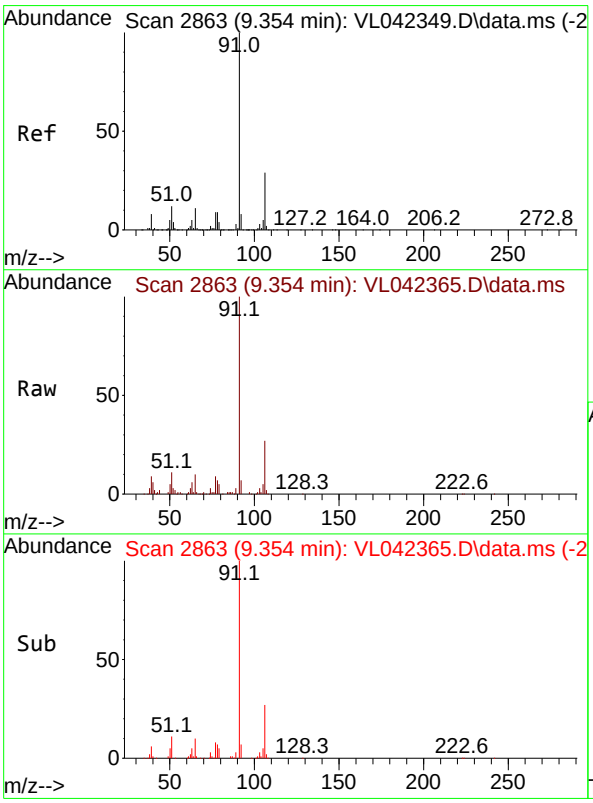
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.879 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL042365.D
Acq: 17 Apr 2025 19:31

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-2-3252025

Tgt Ion:117 Resp: 302443

Ion	Ratio	Lower	Upper
117	100		
82	67.9	57.8	86.6
119	32.1	25.2	37.8

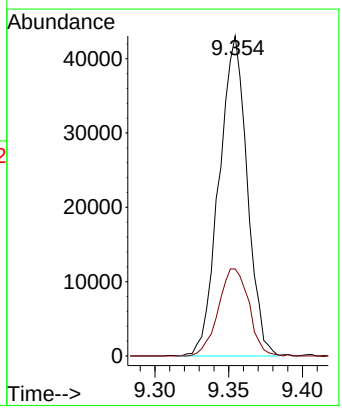


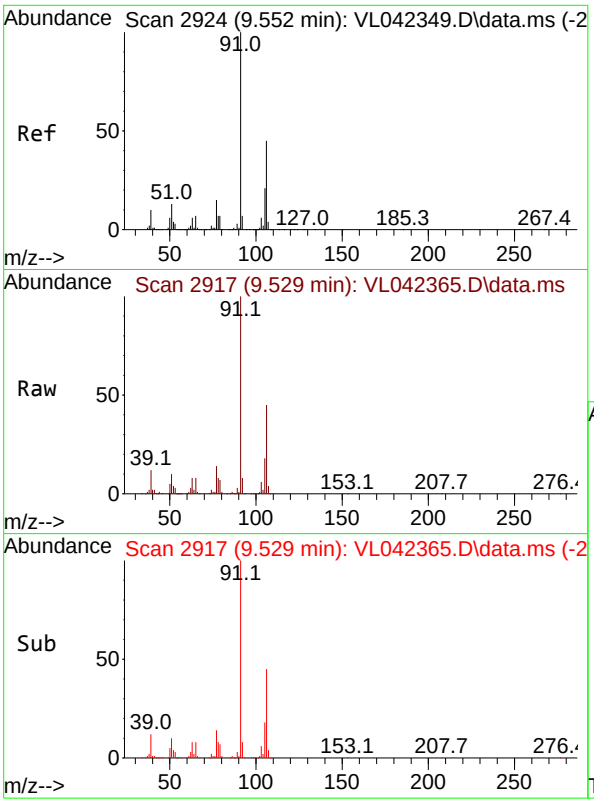


#58
Ethyl Benzene
Concen: 0.951 ppbv
RT: 9.354 min Scan# 2863
Delta R.T. 0.000 min
Lab File: VL042365.D
Acq: 17 Apr 2025 19:31

Tgt Ion: 91 Resp: 56996

Ion	Ratio	Lower	Upper
91	100		
106	27.2	23.0	34.4



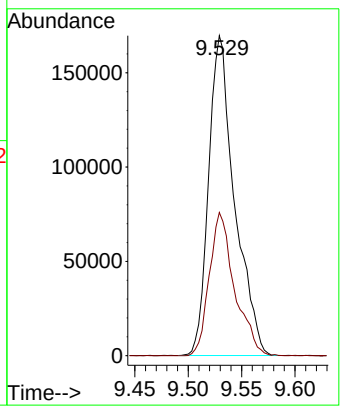


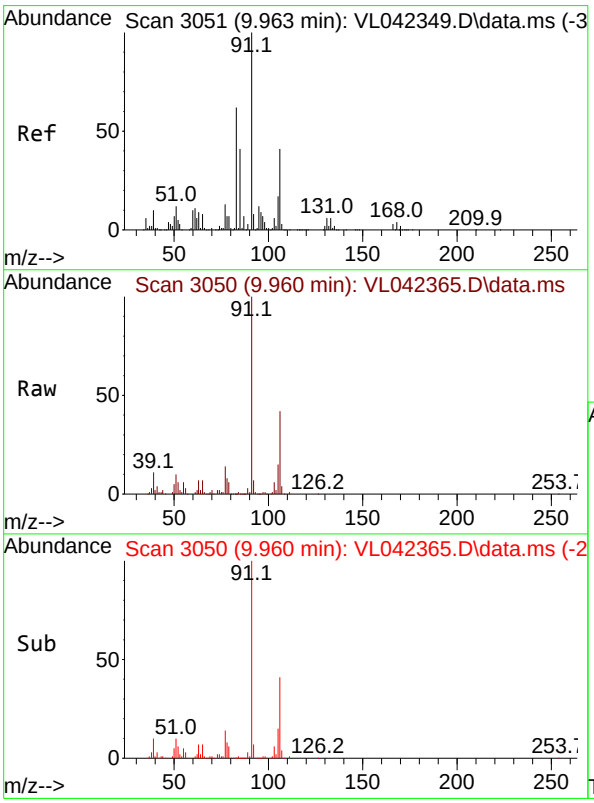
#59
m/p-Xylene
Concen: 5.949 ppbv
RT: 9.529 min Scan# 2
Delta R.T. -0.022 min
Lab File: VL042365.D
Acq: 17 Apr 2025 19:31

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-2-3252025

Tgt Ion: 91 Resp: 287156

Ion	Ratio	Lower	Upper
91	100		
106	43.5	35.4	53.2

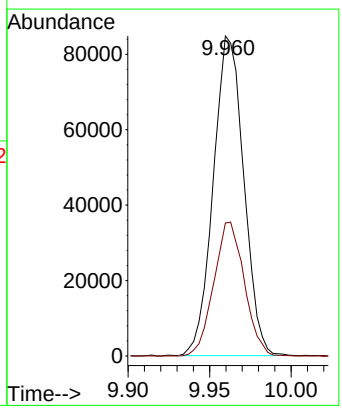


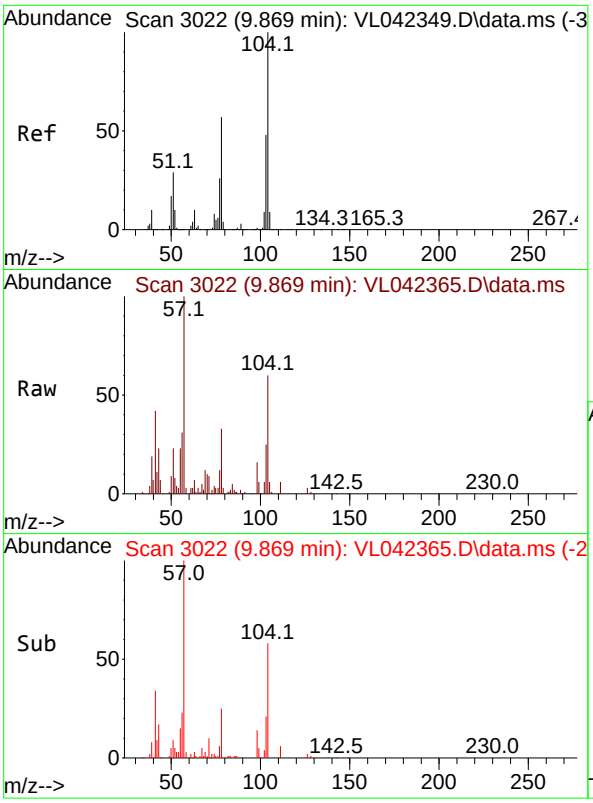


#60
o-Xylene
Concen: 2.264 ppbv
RT: 9.960 min Scan# 3050
Delta R.T. -0.003 min
Lab File: VL042365.D
Acq: 17 Apr 2025 19:31

Tgt Ion: 91 Resp: 110047

Ion	Ratio	Lower	Upper
91	100		
106	42.0	21.1	63.4



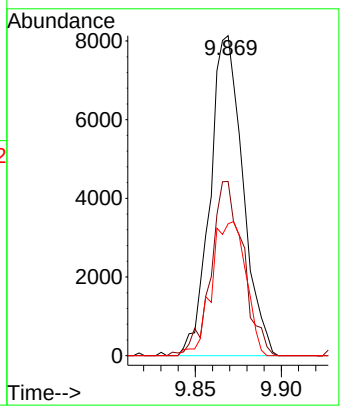


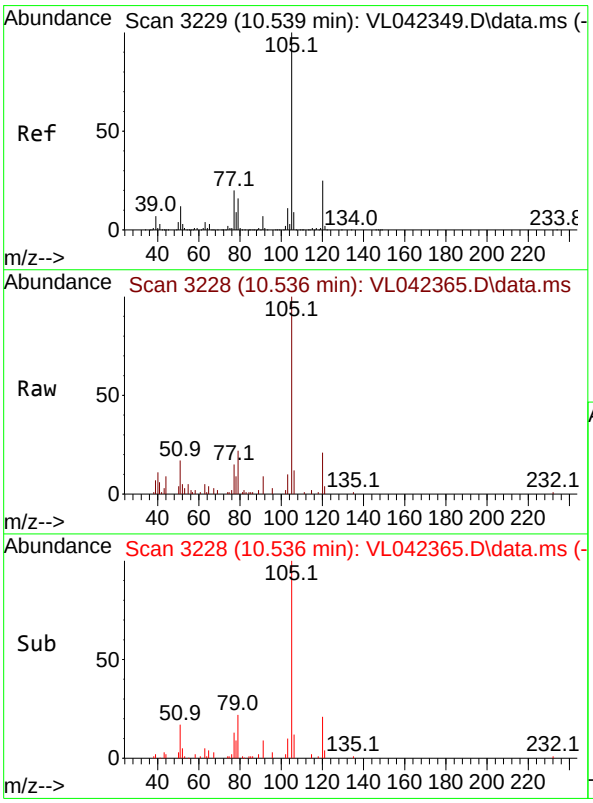
#61
Styrene
Concen: 0.465 ppbv
RT: 9.869 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042365.D
Acq: 17 Apr 2025 19:31

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-2-3252025

Tgt Ion:104 Resp: 10782

Ion	Ratio	Lower	Upper
104	100		
78	53.3	44.6	66.8
103	44.0	37.4	56.0

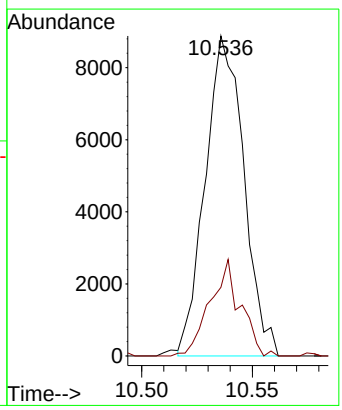


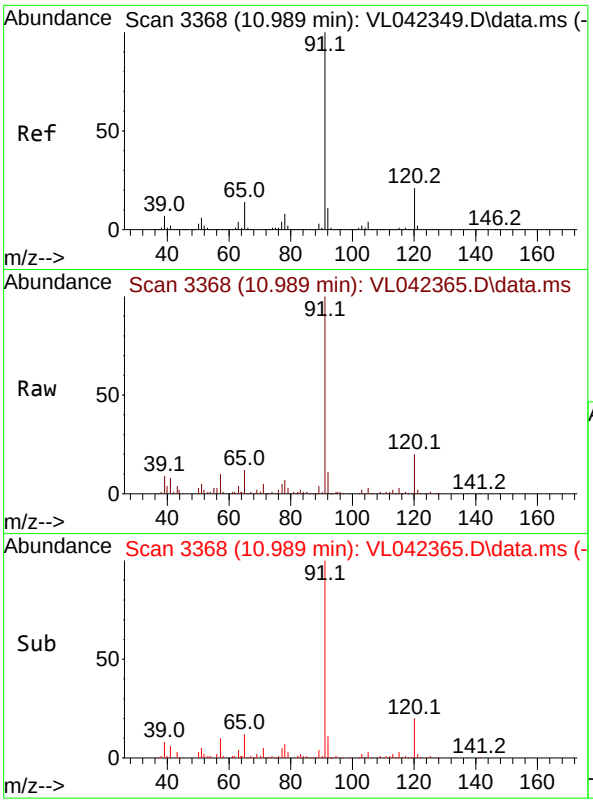


#62
Isopropylbenzene
Concen: 0.151 ppbv
RT: 10.536 min Scan# 3228
Delta R.T. -0.003 min
Lab File: VL042365.D
Acq: 17 Apr 2025 19:31

Tgt Ion:105 Resp: 10773

Ion	Ratio	Lower	Upper
105	100		
120	23.9	19.8	29.8



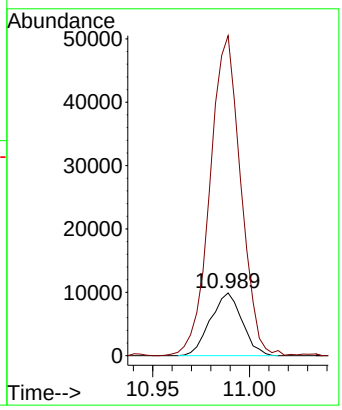


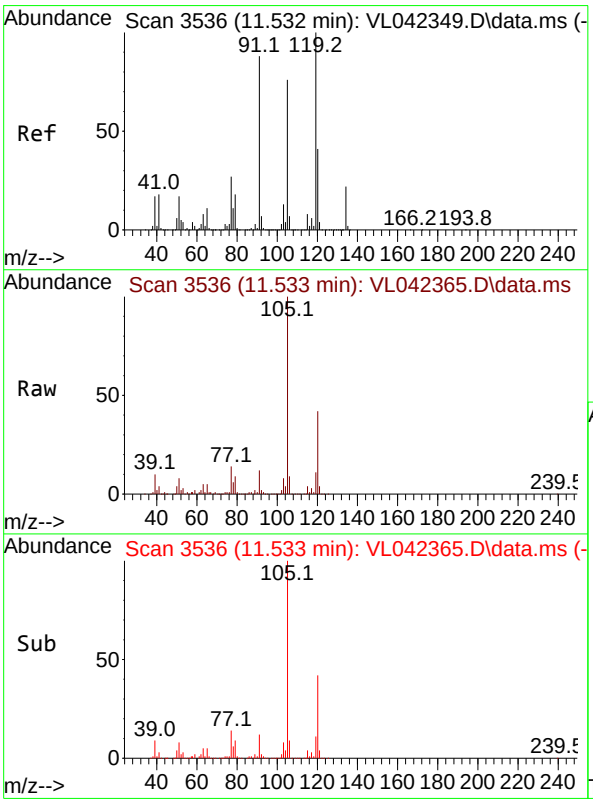
#64
n-propylbenzene
Concen: 0.625 ppbv
RT: 10.989 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042365.D
Acq: 17 Apr 2025 19:31

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-2-3252025

Tgt Ion:120 Resp: 11220

Ion	Ratio	Lower	Upper
120	100		
91	501.5	392.4	588.6

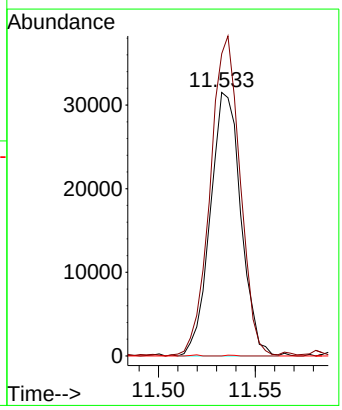


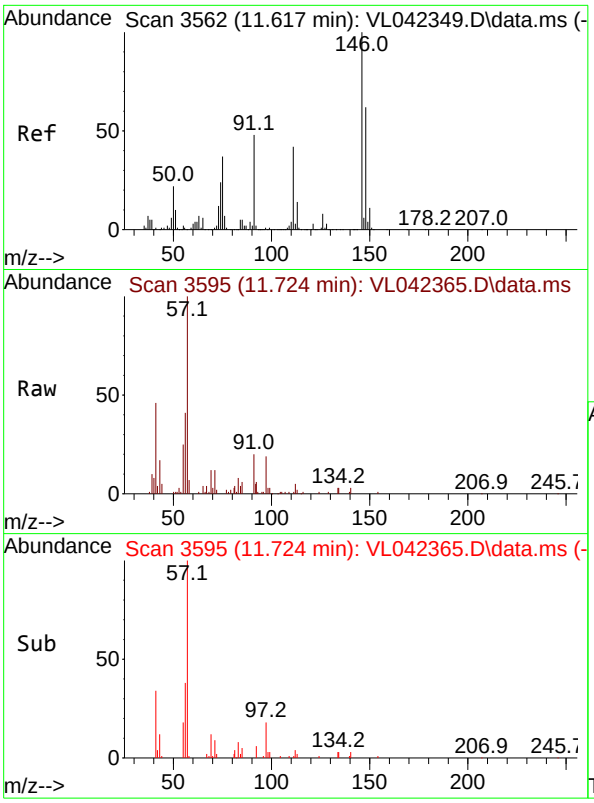


#65
tert-Butylbenzene
Concen: 0.527 ppbv
RT: 11.533 min Scan# 3536
Delta R.T. 0.000 min
Lab File: VL042365.D
Acq: 17 Apr 2025 19:31

Tgt Ion:119 Resp: 34565

Ion	Ratio	Lower	Upper
119	100		
91	119.5	74.6	111.8#
134	0.0	18.8	28.2#



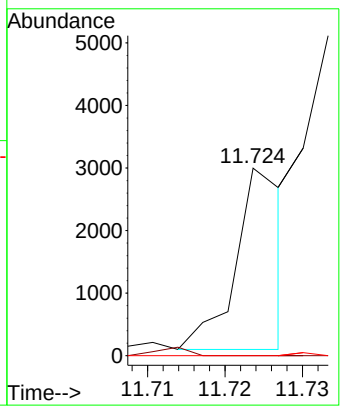


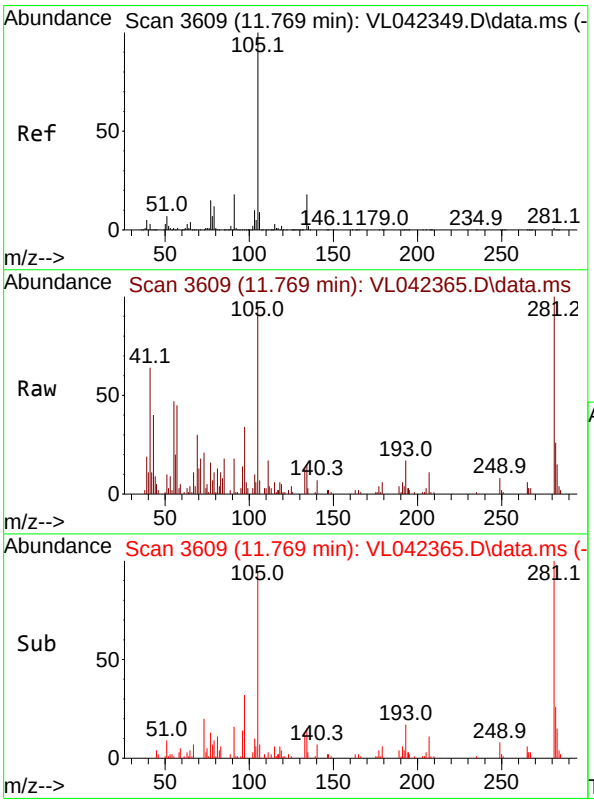
#66
Benzyl Chloride
Concen: 0.176 ppbv
RT: 11.724 min Scan# 3
Delta R.T. 0.107 min
Lab File: VL042365.D
Acq: 17 Apr 2025 19:31

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-2-3252025

Tgt Ion: 91 Resp: 1267

Ion	Ratio	Lower	Upper
91	100		
126	0.0	11.8	17.6#
128	0.0	4.5	6.7#

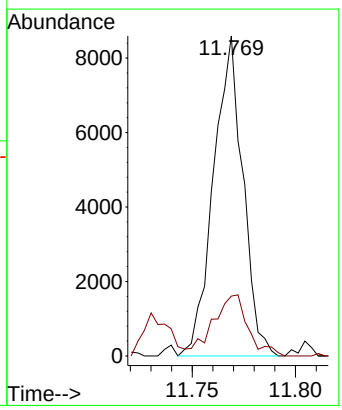


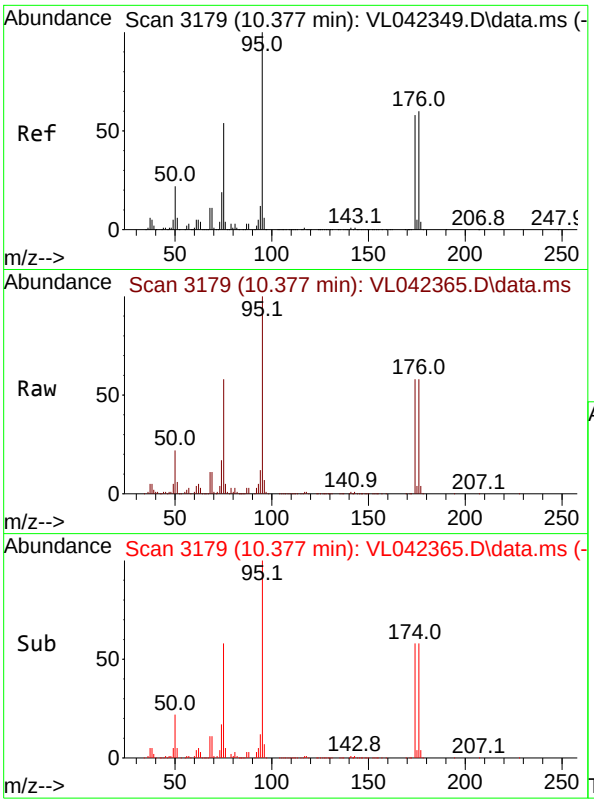


#67
sec-Butylbenzene
Concen: 0.093 ppbv
RT: 11.769 min Scan# 3609
Delta R.T. 0.000 min
Lab File: VL042365.D
Acq: 17 Apr 2025 19:31

Tgt Ion:105 Resp: 8497

Ion	Ratio	Lower	Upper
105	100		
134	22.2	14.6	21.8#



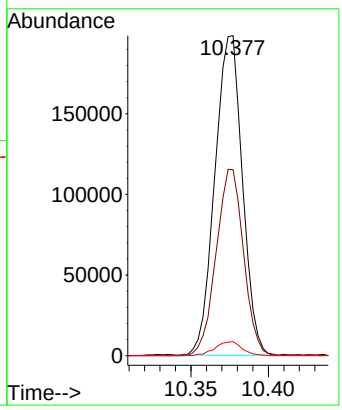


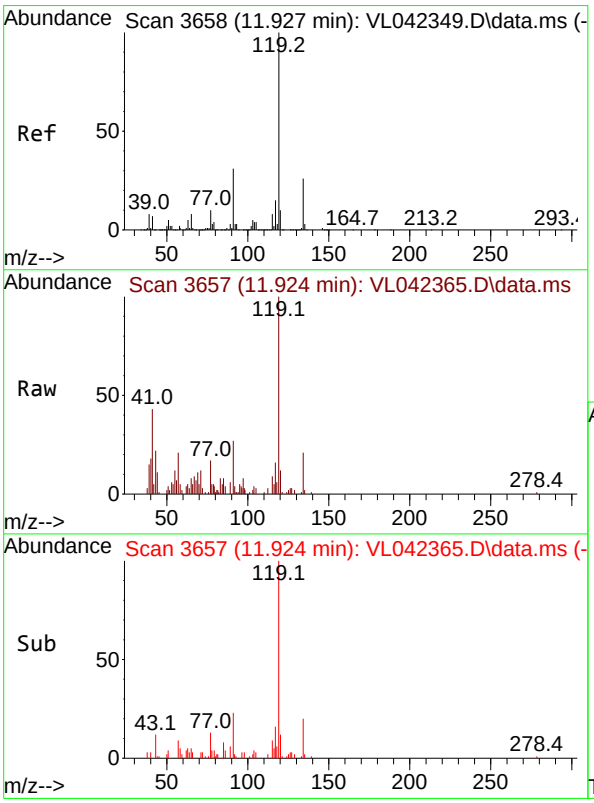
#68
1-Bromo-4-Fluorobenzene
Concen: 9.863 ppbv
RT: 10.377 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042365.D
Acq: 17 Apr 2025 19:31

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-2-3252025

Tgt Ion: 95 Resp: 245115

Ion	Ratio	Lower	Upper
95	100		
174	58.1	48.5	72.7
175	4.3	3.7	5.5

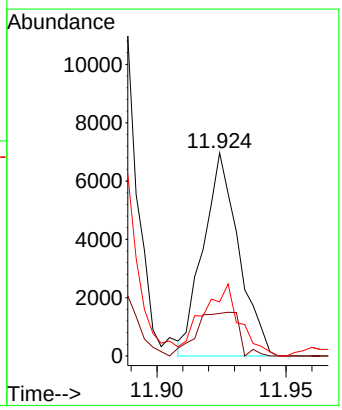


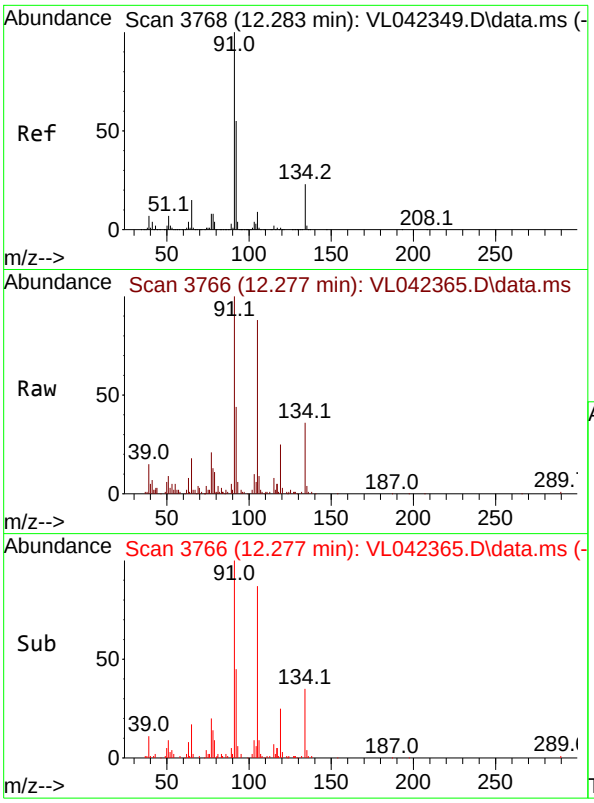


#69
p-Isopropyltoluene
Concen: 0.084 ppbv
RT: 11.924 min Scan# 3657
Delta R.T. -0.003 min
Lab File: VL042365.D
Acq: 17 Apr 2025 19:31

Tgt Ion:119 Resp: 6656

Ion	Ratio	Lower	Upper
119	100		
134	25.2	20.0	30.0
91	36.9	24.4	36.6#



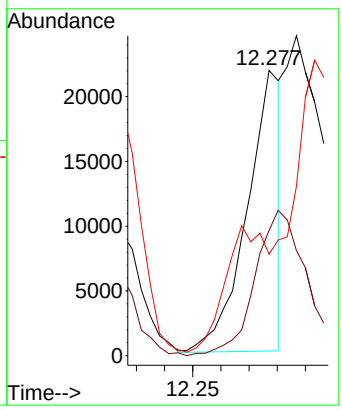


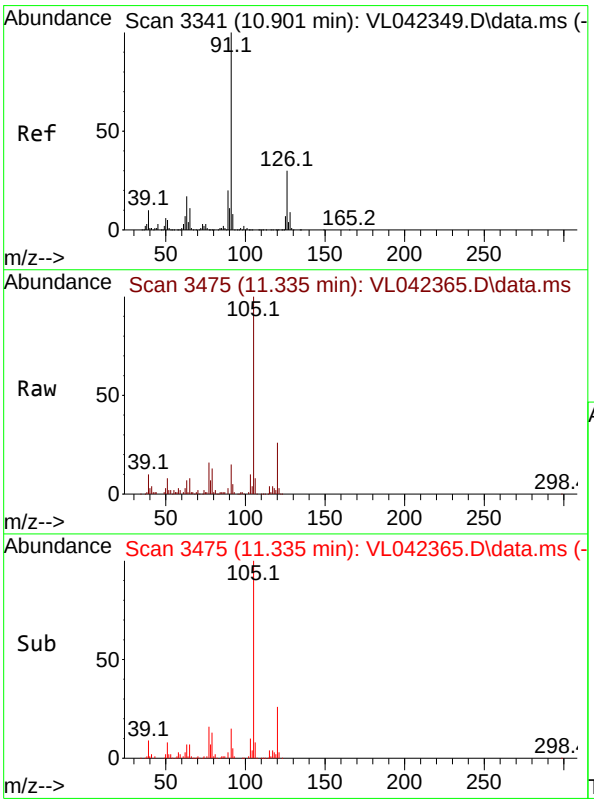
#70
n-Butylbenzene
Concen: 0.218 ppbv
RT: 12.277 min Scan# 3
Delta R.T. -0.006 min
Lab File: VL042365.D
Acq: 17 Apr 2025 19:31

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-2-3252025

Tgt Ion: 91 Resp: 17980

Ion	Ratio	Lower	Upper
91	100		
92	77.5	44.2	66.4#
134	0.0	18.2	27.4#

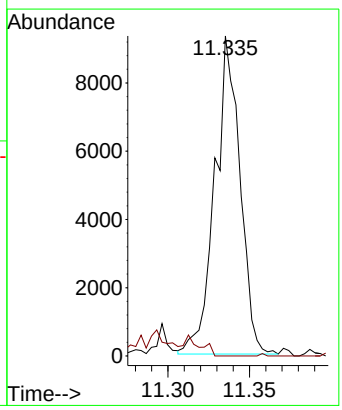


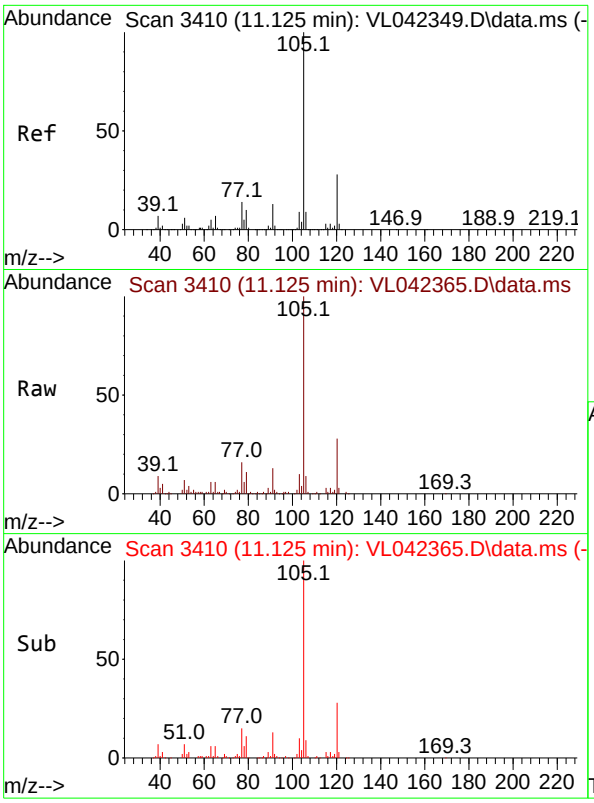


#71
2-Chlorotoluene
Concen: 0.179 ppbv
RT: 11.335 min Scan# 3475
Delta R.T. 0.434 min
Lab File: VL042365.D
Acq: 17 Apr 2025 19:31

Tgt Ion: 91 Resp: 10005

Ion	Ratio	Lower	Upper
91	100		
126	14.7	11.4	45.4



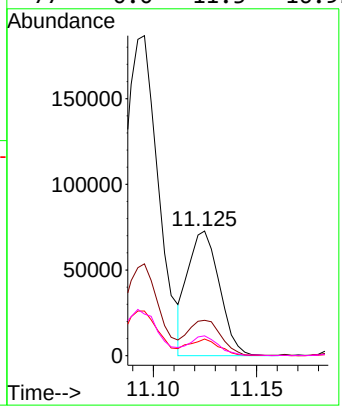


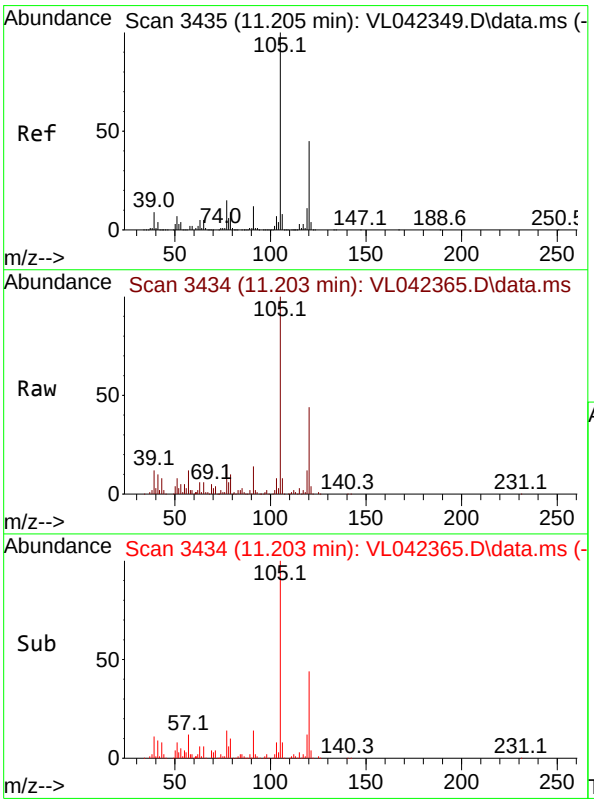
#72
4-Ethyltoluene
Concen: 1.306 ppbv
RT: 11.125 min Scan# 34
Delta R.T. 0.000 min
Lab File: VL042365.D
Acq: 17 Apr 2025 19:31

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-2-3252025

Tgt Ion:105 Resp: 77634

Ion	Ratio	Lower	Upper
105	100		
120	0.0	23.2	34.8#
91	0.0	10.4	15.6#
77	0.0	11.3	16.9#

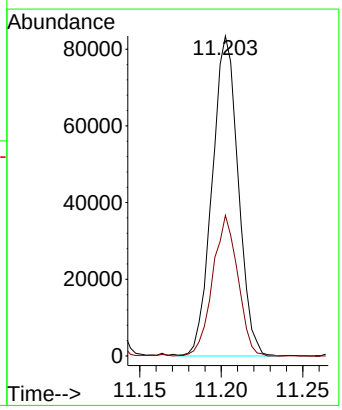


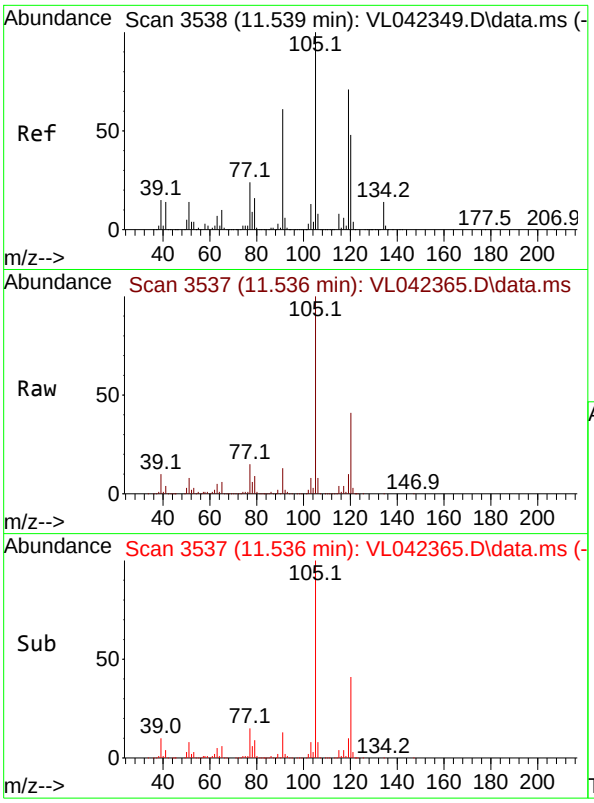


#73
1,3,5-Trimethylbenzene
Concen: 1.764 ppbv
RT: 11.203 min Scan# 3434
Delta R.T. -0.003 min
Lab File: VL042365.D
Acq: 17 Apr 2025 19:31

Tgt Ion:105 Resp: 92546

Ion	Ratio	Lower	Upper
105	100		
120	43.9	35.6	53.4



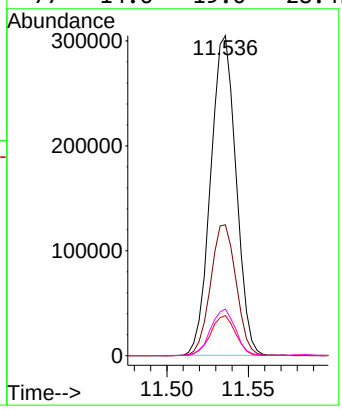


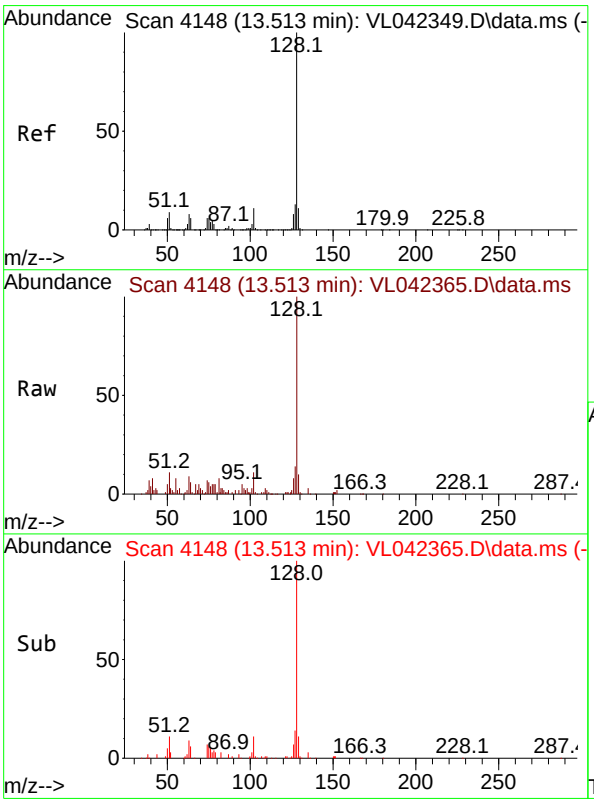
#74
1,2,4-Trimethylbenzene
Concen: 5.391 ppbv
RT: 11.536 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042365.D
Acq: 17 Apr 2025 19:31

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-2-3252025

Tgt Ion:105 Resp: 330358

Ion	Ratio	Lower	Upper
105	100		
120	40.9	38.1	57.1
91	12.5	48.8	73.2#
77	14.6	19.0	28.4#

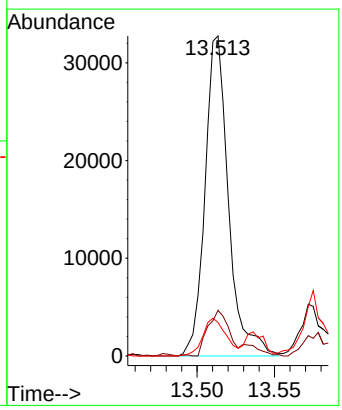


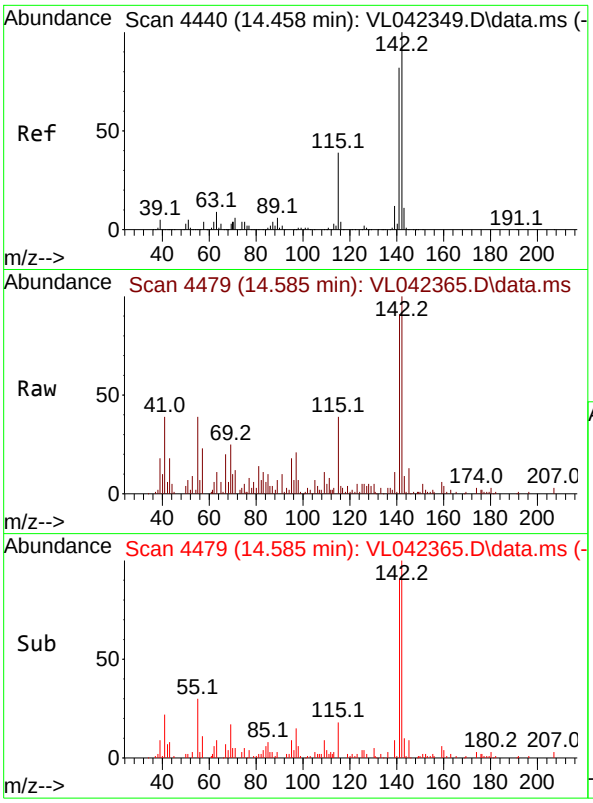


#79
Naphthalene
Concen: 0.472 ppbv
RT: 13.513 min Scan# 4148
Delta R.T. 0.000 min
Lab File: VL042365.D
Acq: 17 Apr 2025 19:31

Tgt Ion:128 Resp: 34564

Ion	Ratio	Lower	Upper
128	100		
127	14.2	10.6	15.8
129	10.4	8.6	12.8



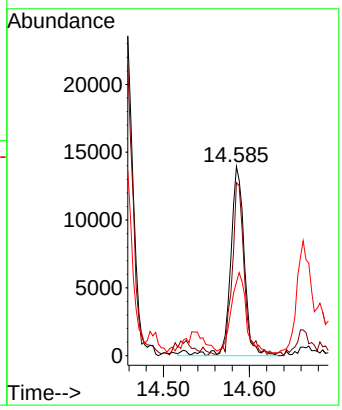


#80
Naphthalene,2-methyl-
Concen: 0.369 ppbv
RT: 14.585 min Scan# 4
Delta R.T. 0.127 min
Lab File: VL042365.D
Acq: 17 Apr 2025 19:31

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-2-3252025

Tgt Ion:142 Resp: 15395

Ion	Ratio	Lower	Upper
142	100		
141	79.1	66.8	100.2
115	45.6	33.4	50.2



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042374.D
Acq On : 18 Apr 2025 00:28
Operator : SY/MD
Sample : Q1668-01DL 4X
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025DL

Quant Time: Apr 18 02:47:53 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.787	49	104470	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	294101	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.882	117	258444	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	213140	10.036	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 100.400%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	3131	0.170	ppbv	89
3) Chlorodifluoromethane	1.706	51	543	0.031	ppbv	94
4) Chloromethane	1.534	50	1444	0.198	ppbv	96
6) Bromomethane	1.667	94	163	0.048	ppbv #	11
9) Propene	1.486	41	1595	0.199	ppbv	92
10) Heptane	4.978	43	7466	0.332	ppbv #	27
11) Trichlorofluoromethane	1.877	101	1145	0.065	ppbv	98
13) Ethanol	1.722	45	89338	70.220	ppbv	76
15) Acetone	1.835	43	28193	1.649	ppbv	98
16) 1,3-Butadiene	1.599	39	2179	0.266	ppbv #	25
17) tert-Butyl alcohol	2.049	59	963	0.045	ppbv #	79
19) Isopropyl Alcohol	1.887	45	6632	0.698	ppbv #	1
20) Methylene Chloride	2.062	84	8259	1.233	ppbv	86
23) Vinyl Acetate	2.457	43	1502	0.217	ppbv #	1
25) Ethyl Acetate	2.826	43	11465	0.272	ppbv #	77
26) Hexane	2.823	57	17764	1.041	ppbv #	33
27) Carbon Disulfide	2.149	76	3292	0.180	ppbv #	1
30) Cyclohexane	3.858	84	13322	0.966	ppbv	97
34) 2-Butanone	2.564	43	4793	0.206	ppbv	94
36) Benzene	3.664	78	1791	0.056	ppbv	98
39) 1,2-Dichloropropane	3.955	63	78594	6.649	ppbv #	23
50) 4-Methyl-2-Pentanone	5.755	43	200233	5.180	ppbv	98
53) Toluene	6.933	91	9949	0.261	ppbv #	44
58) Ethyl Benzene	9.354	91	13008	0.254	ppbv	93
59) m/p-Xylene	9.532	91	104338	2.529	ppbv	99
60) o-Xylene	9.963	91	22264	0.536	ppbv	99
61) Styrene	9.872	104	8460	0.427	ppbv	97
62) Isopropylbenzene	10.539	105	2585	0.042	ppbv	100
64) n-propylbenzene	10.992	120	2068	0.135	ppbv	91
65) tert-Butylbenzene	11.536	119	5744	0.102	ppbv #	65
69) p-Isopropyltoluene	11.924	119	2965	0.044	ppbv #	91
72) 4-Ethyltoluene	11.125	105	14677	0.289	ppbv #	56
73) 1,3,5-Trimethylbenzene	11.202	105	14990	0.334	ppbv	89
74) 1,2,4-Trimethylbenzene	11.536	105	55625	1.062	ppbv #	62
79) Naphthalene	13.516	128	9572	0.153	ppbv #	92
80) Naphthalene,2-methyl-	14.465	142	1218	0.034	ppbv #	35

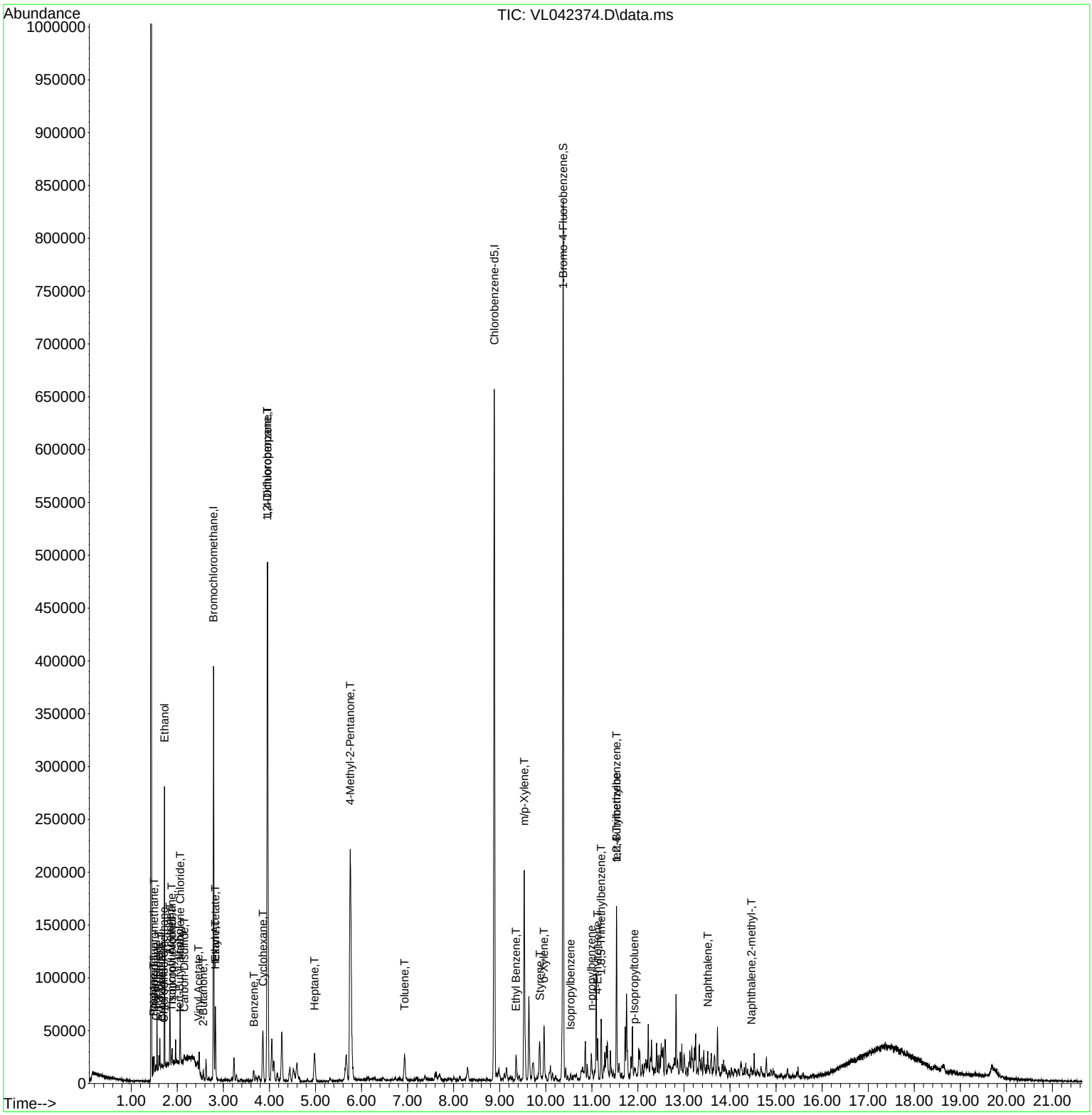
(#) = qualifier out of range (m) = manual integration (+) = signals summed

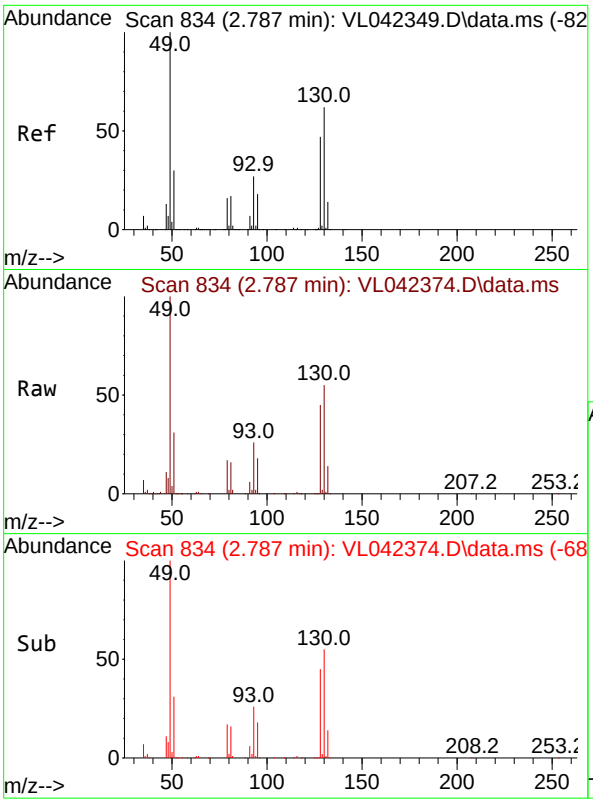
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042374.D
Acq On : 18 Apr 2025 00:28
Operator : SY/MD
Sample : Q1668-01DL 4X
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025DL

Quant Time: Apr 18 02:47:53 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration



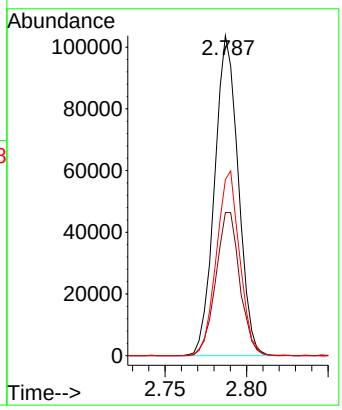


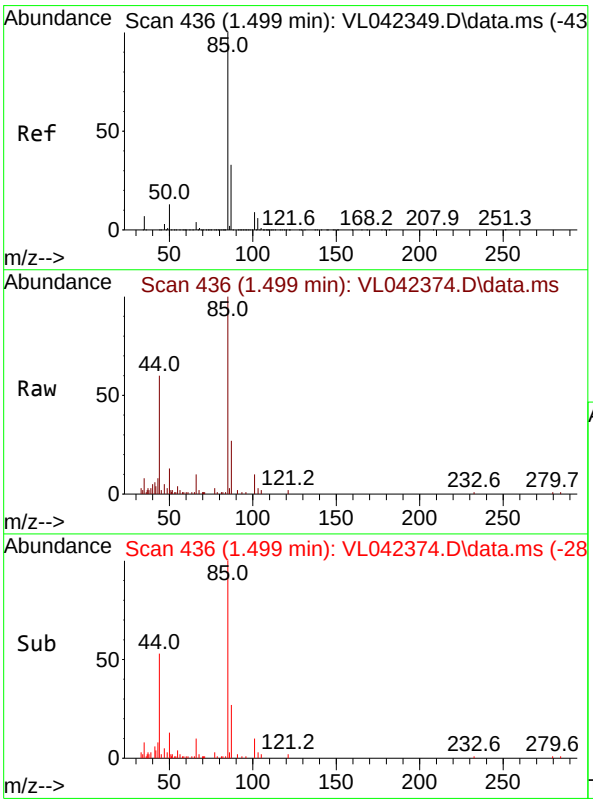
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL042374.D
Acq: 18 Apr 2025 00:28

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025DL

Tgt Ion: 49 Resp: 104470

Ion	Ratio	Lower	Upper
49	100		
128	45.6	22.8	68.4
130	56.8	29.3	88.0

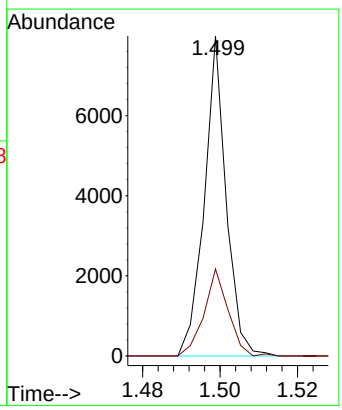


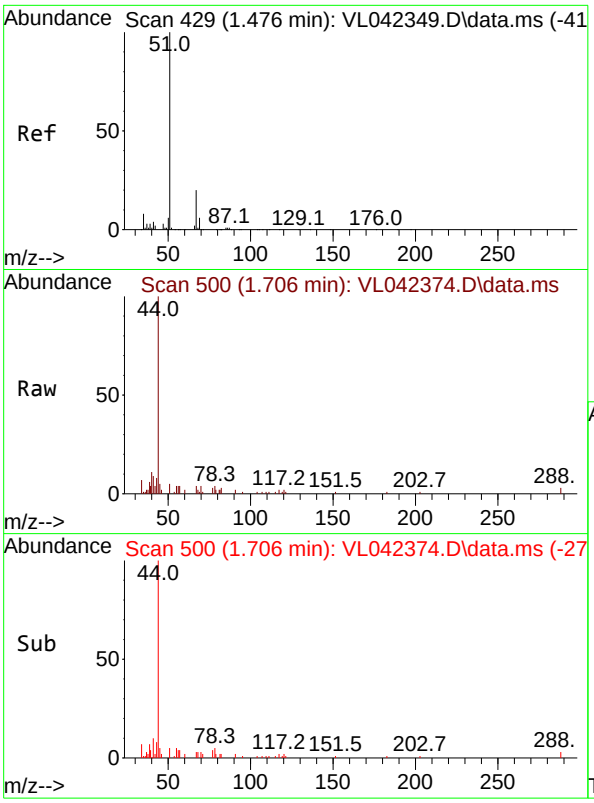


#2
Dichlorodifluoromethane
Concen: 0.170 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.000 min
Lab File: VL042374.D
Acq: 18 Apr 2025 00:28

Tgt Ion: 85 Resp: 3131

Ion	Ratio	Lower	Upper
85	100		
87	27.2	26.6	39.8



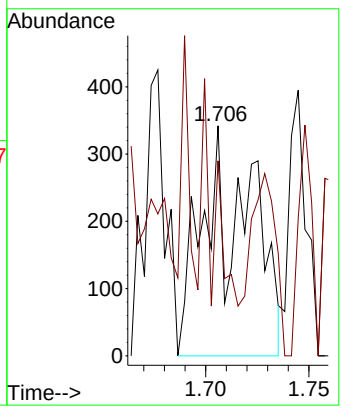


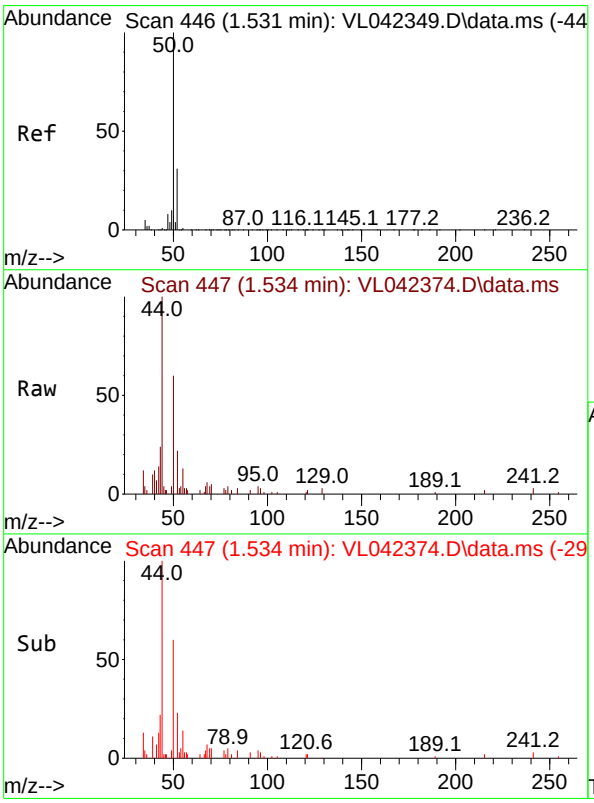
#3
Chlorodifluoromethane
Concen: 0.031 ppbv
RT: 1.706 min Scan# 5
Delta R.T. 0.230 min
Lab File: VL042374.D
Acq: 18 Apr 2025 00:28

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025DL

Tgt Ion: 51 Resp: 543

Ion	Ratio	Lower	Upper
51	100		
67	23.0	16.2	24.4

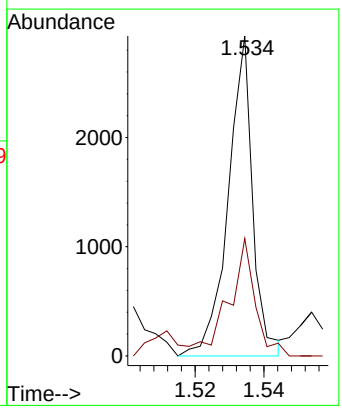


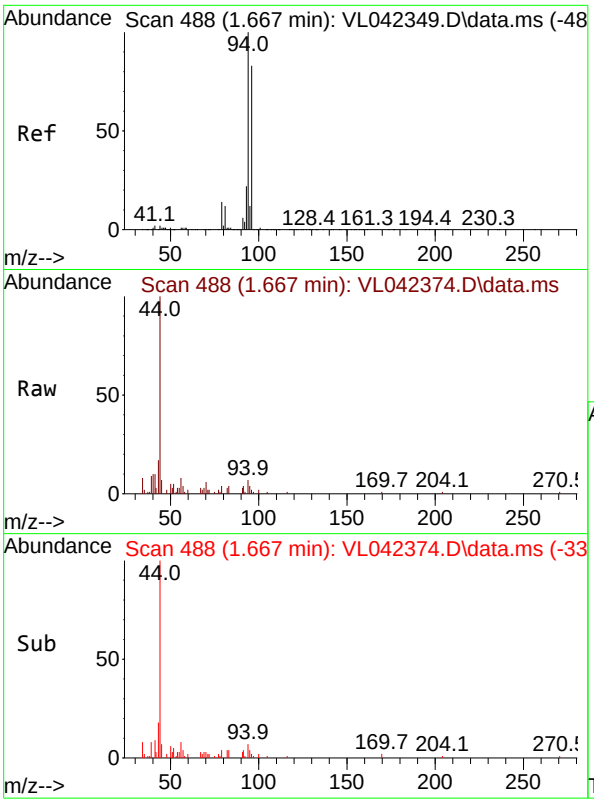


#4
Chloromethane
Concen: 0.198 ppbv
RT: 1.534 min Scan# 447
Delta R.T. 0.003 min
Lab File: VL042374.D
Acq: 18 Apr 2025 00:28

Tgt Ion: 50 Resp: 1444

Ion	Ratio	Lower	Upper
50	100		
52	33.3	24.7	37.1



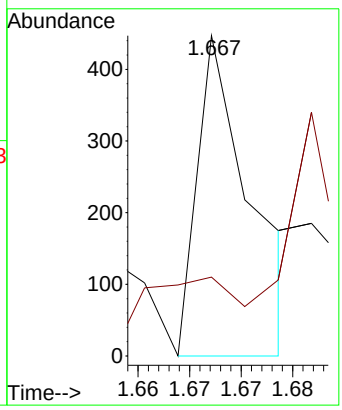


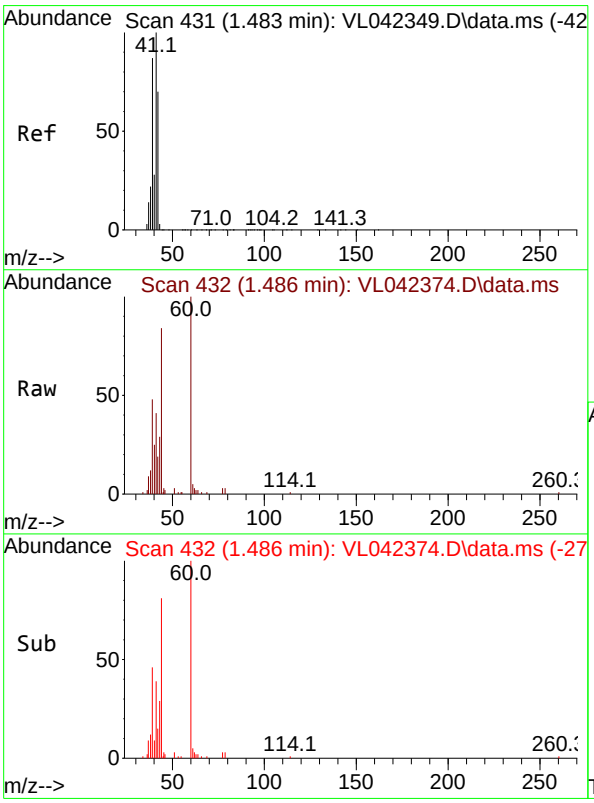
#6
Bromomethane
Concen: 0.048 ppbv
RT: 1.667 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042374.D
Acq: 18 Apr 2025 00:28

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025DL

Tgt Ion: 94 Resp: 163

Ion	Ratio	Lower	Upper
94	100		
96	2.5	66.2	99.2#

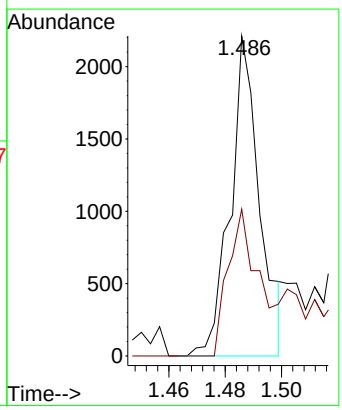


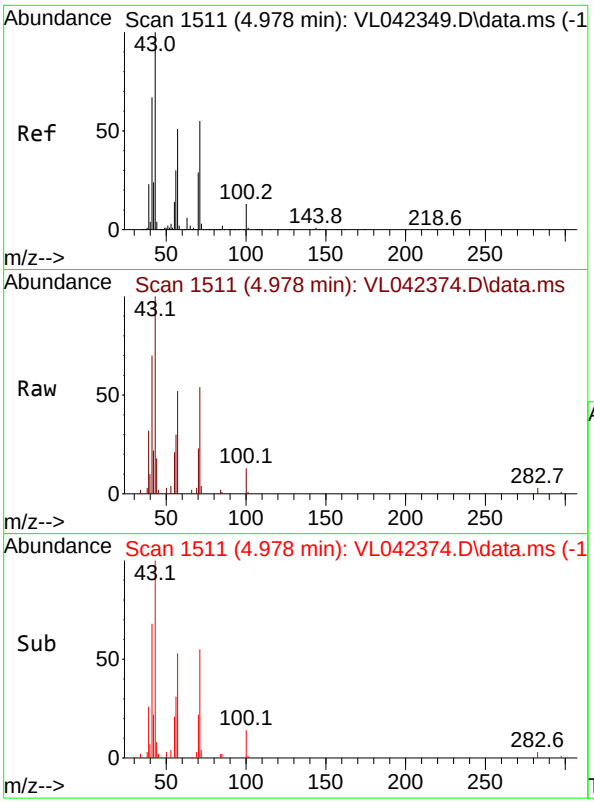


#9
Propene
Concen: 0.199 ppbv
RT: 1.486 min Scan# 432
Delta R.T. 0.003 min
Lab File: VL042374.D
Acq: 18 Apr 2025 00:28

Tgt Ion: 41 Resp: 1595

Ion	Ratio	Lower	Upper
41	100		
42	63.9	56.2	84.4



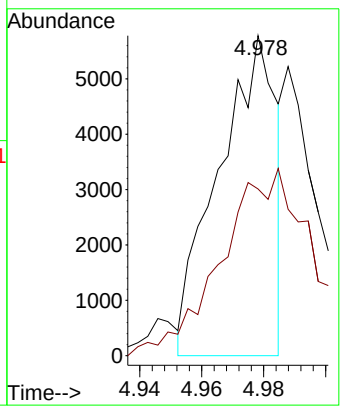


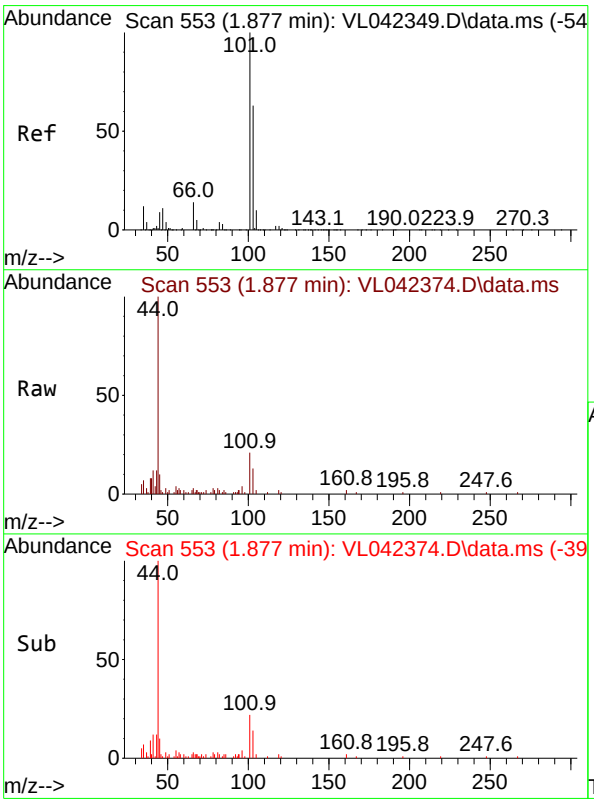
#10
Heptane
Concen: 0.332 ppbv
RT: 4.978 min Scan# 1
Delta R.T. 0.000 min
Lab File: VL042374.D
Acq: 18 Apr 2025 00:28

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025DL

Tgt Ion: 43 Resp: 7466

Ion	Ratio	Lower	Upper
43	100		
57	0.0	39.9	59.9#

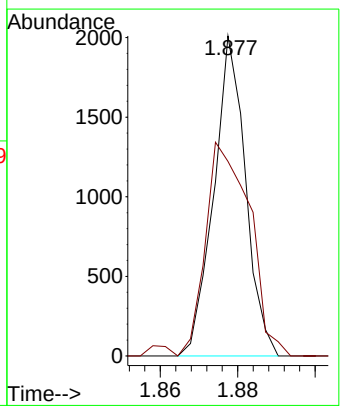


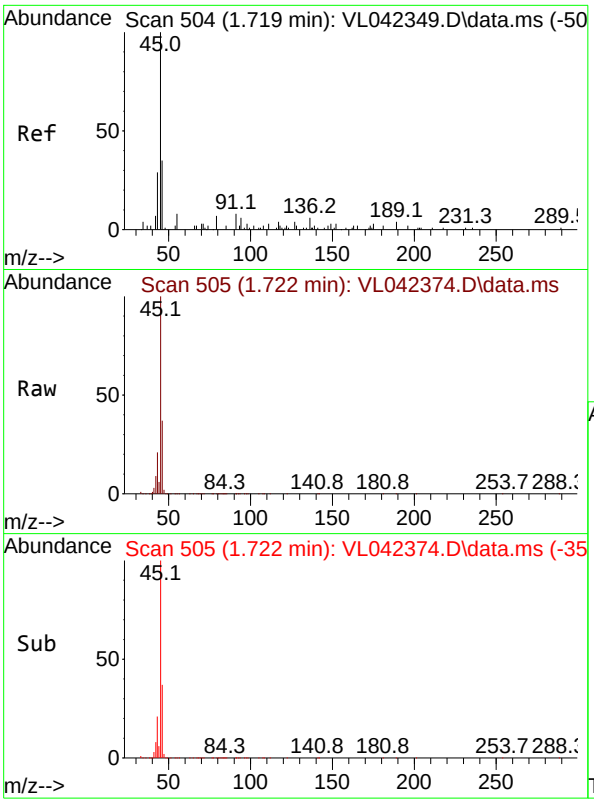


#11
Trichlorofluoromethane
Concen: 0.065 ppbv
RT: 1.877 min Scan# 553
Delta R.T. 0.000 min
Lab File: VL042374.D
Acq: 18 Apr 2025 00:28

Tgt Ion:101 Resp: 1145

Ion	Ratio	Lower	Upper
101	100		
103	60.8	50.1	75.1



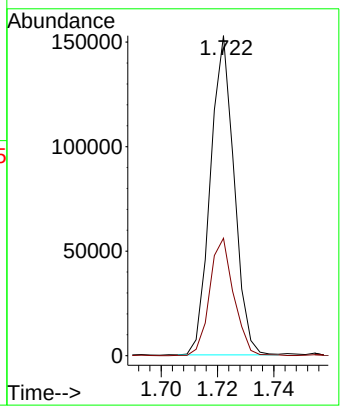


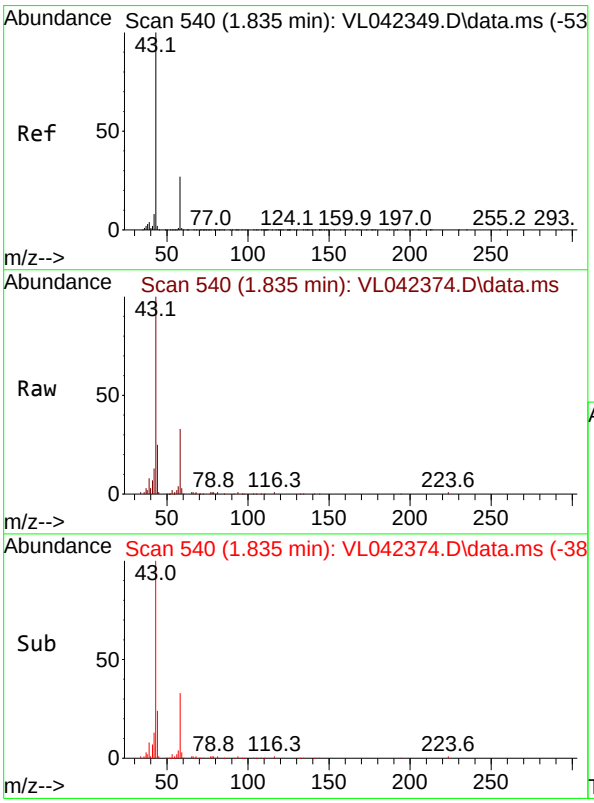
#13
Ethanol
Concen: 70.220 ppbv
RT: 1.722 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042374.D
Acq: 18 Apr 2025 00:28

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025DL

Tgt Ion: 45 Resp: 89338

Ion	Ratio	Lower	Upper
45	100		
46	37.5	21.9	87.7

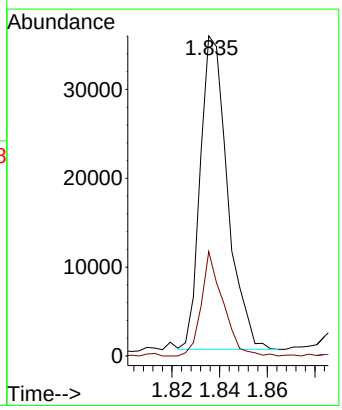


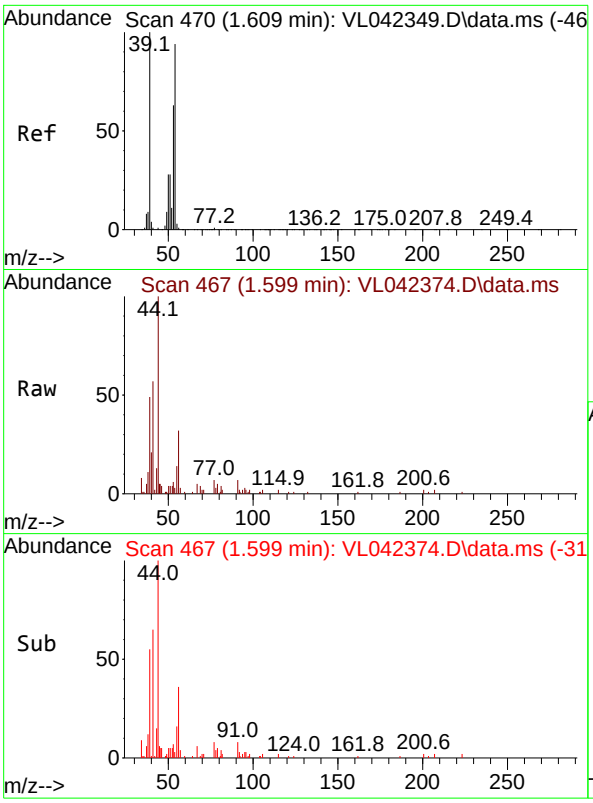


#15
Acetone
Concen: 1.649 ppbv
RT: 1.835 min Scan# 540
Delta R.T. 0.000 min
Lab File: VL042374.D
Acq: 18 Apr 2025 00:28

Tgt Ion: 43 Resp: 28193

Ion	Ratio	Lower	Upper
43	100		
58	27.1	22.4	33.6



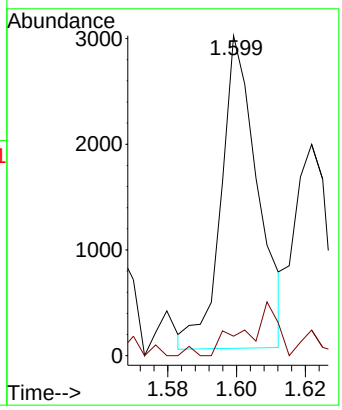


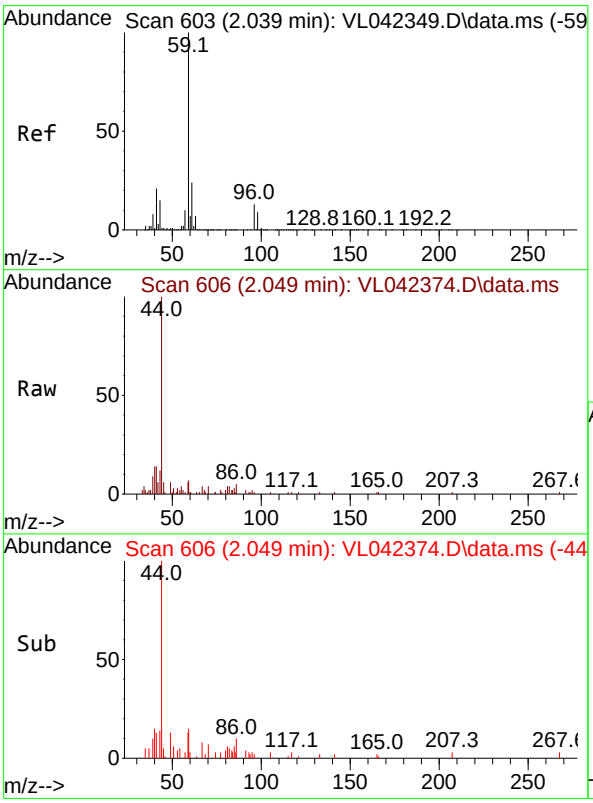
#16
1,3-Butadiene
Concen: 0.266 ppbv
RT: 1.599 min Scan# 4
Delta R.T. -0.010 min
Lab File: VL042374.D
Acq: 18 Apr 2025 00:28

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025DL

Tgt Ion: 39 Resp: 2179

Ion	Ratio	Lower	Upper
39	100		
54	14.4	64.9	97.3#

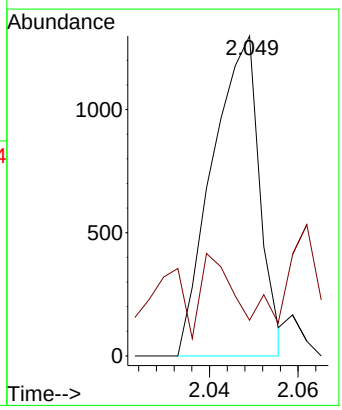


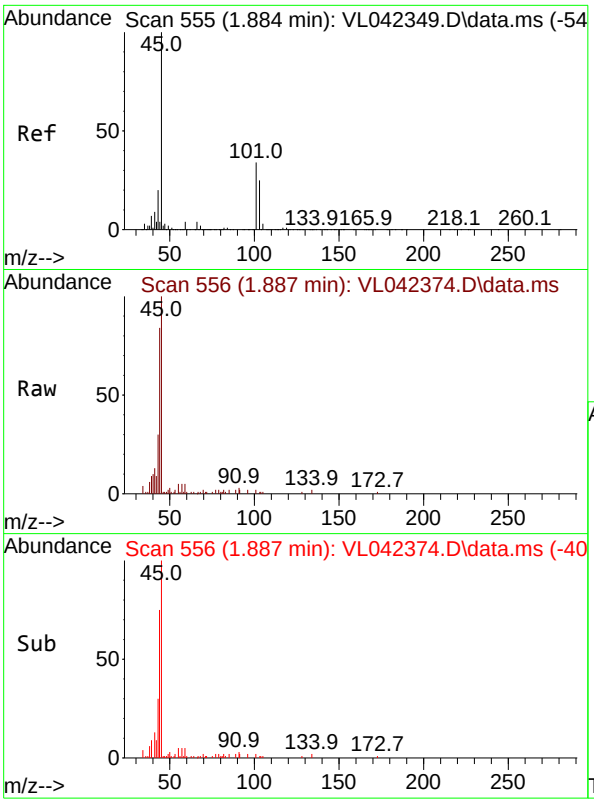


#17
tert-Butyl alcohol
Concen: 0.045 ppbv
RT: 2.049 min Scan# 606
Delta R.T. 0.010 min
Lab File: VL042374.D
Acq: 18 Apr 2025 00:28

Tgt Ion: 59 Resp: 963

Ion	Ratio	Lower	Upper
59	100		
57	19.0	8.7	13.1#



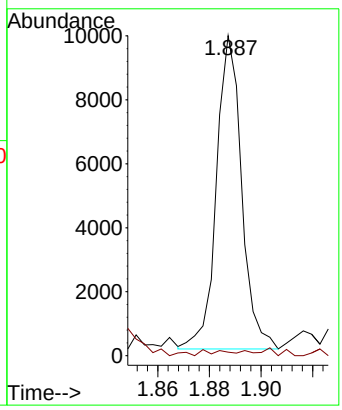


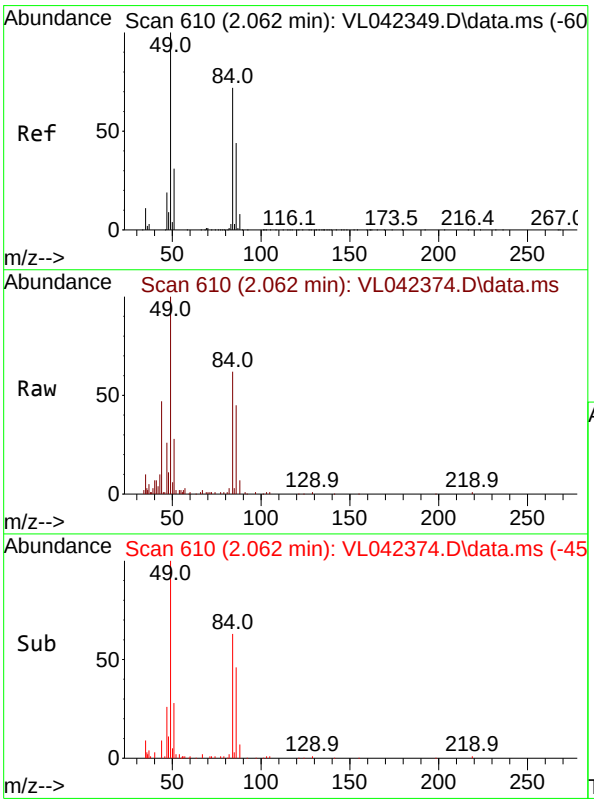
#19
Isopropyl Alcohol
Concen: 0.698 ppbv
RT: 1.887 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042374.D
Acq: 18 Apr 2025 00:28

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025DL

Tgt Ion: 45 Resp: 6632

Ion	Ratio	Lower	Upper
45	100		
58	115.4	34.5	51.7#

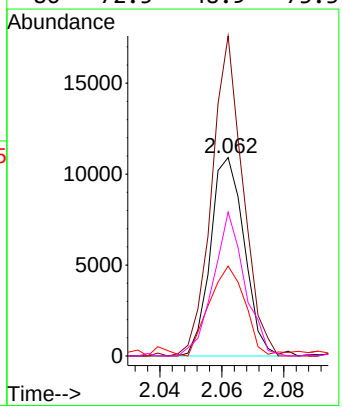


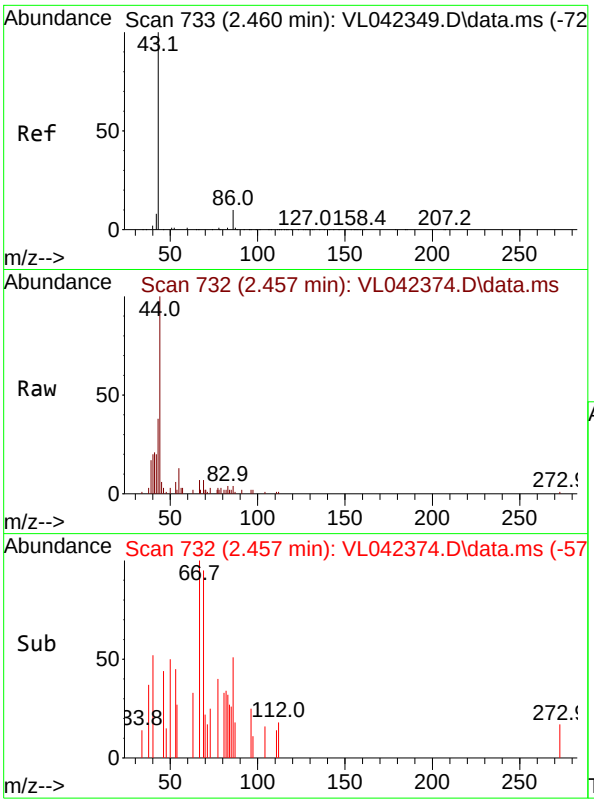


#20
Methylene Chloride
Concen: 1.233 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.000 min
Lab File: VL042374.D
Acq: 18 Apr 2025 00:28

Tgt Ion: 84 Resp: 8259

Ion	Ratio	Lower	Upper
84	100		
49	161.3	111.6	167.4
51	44.5	35.1	52.7
86	72.5	48.9	73.3



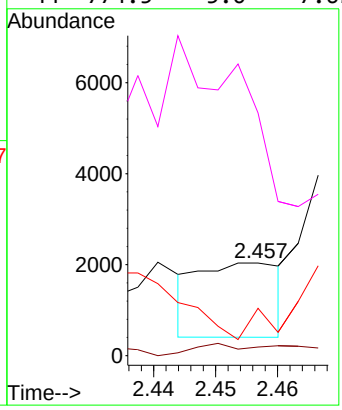


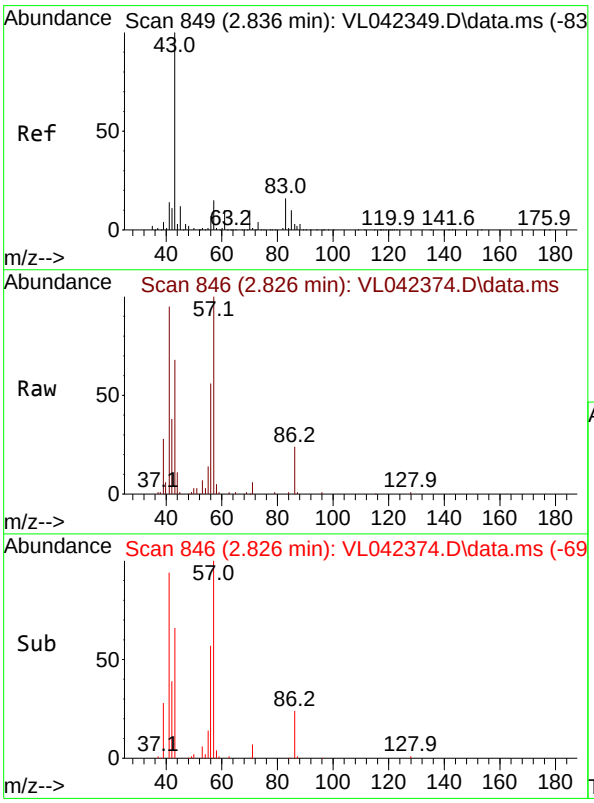
#23
Vinyl Acetate
Concen: 0.217 ppbv
RT: 2.457 min Scan# 7
Delta R.T. -0.003 min
Lab File: VL042374.D
Acq: 18 Apr 2025 00:28

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025DL

Tgt Ion: 43 Resp: 1502

Ion	Ratio	Lower	Upper
43	100		
86	50.2	6.5	9.7#
42	210.4	7.8	11.8#
44	774.5	5.0	7.6#

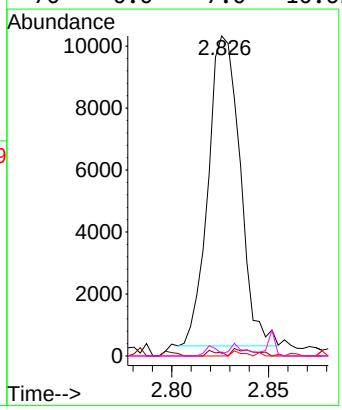


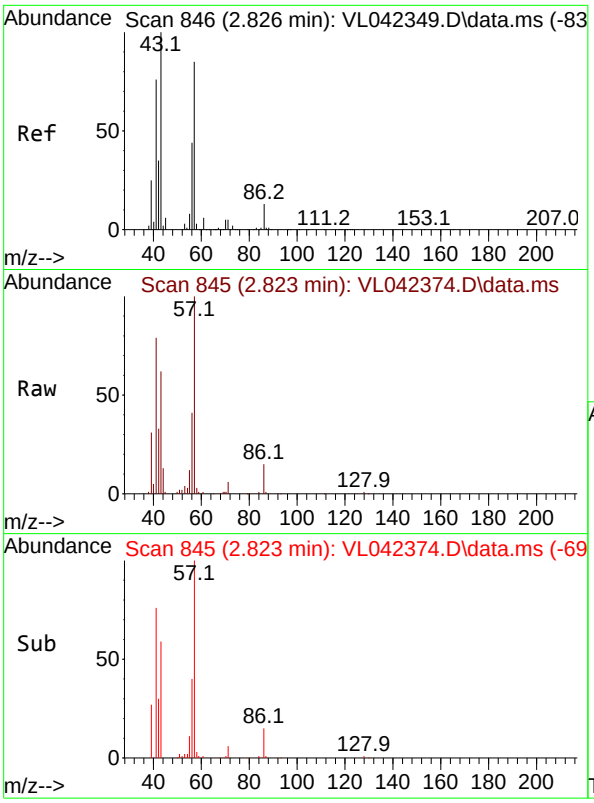


#25
Ethyl Acetate
Concen: 0.272 ppbv
RT: 2.826 min Scan# 846
Delta R.T. -0.010 min
Lab File: VL042374.D
Acq: 18 Apr 2025 00:28

Tgt Ion: 43 Resp: 11465

Ion	Ratio	Lower	Upper
43	100		
45	2.3	8.3	12.5#
61	0.7	7.3	10.9#
70	0.0	7.0	10.6#



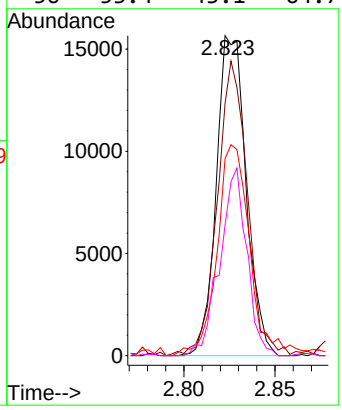


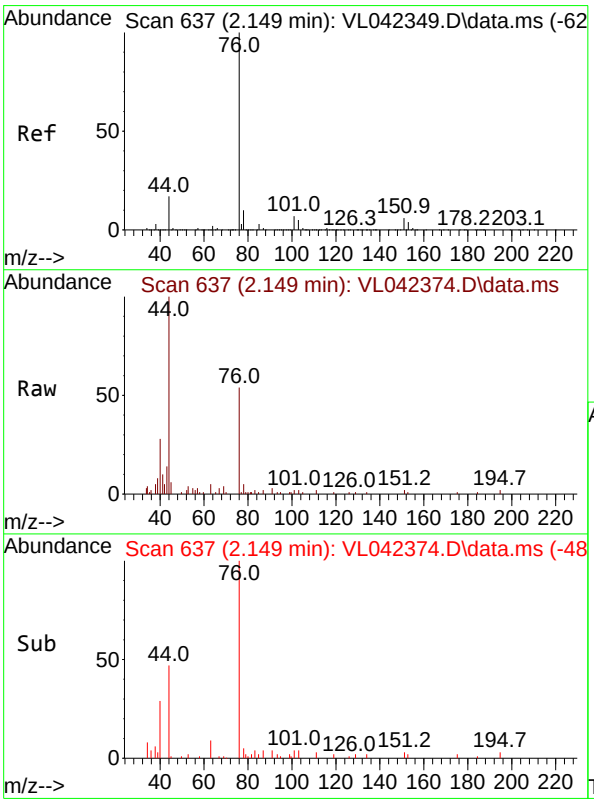
#26
Hexane
Concen: 1.041 ppbv
RT: 2.823 min Scan# 84
Delta R.T. -0.003 min
Lab File: VL042374.D
Acq: 18 Apr 2025 00:28

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025DL

Tgt Ion: 57 Resp: 17764

Ion	Ratio	Lower	Upper
57	100		
41	92.1	77.9	116.9
43	74.3	208.4	312.6#
56	53.4	43.1	64.7

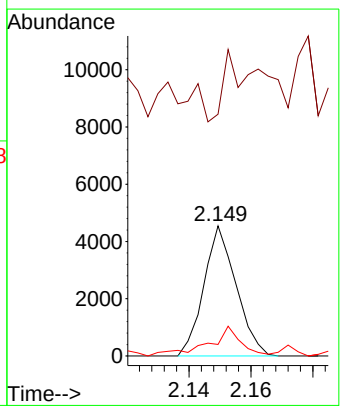


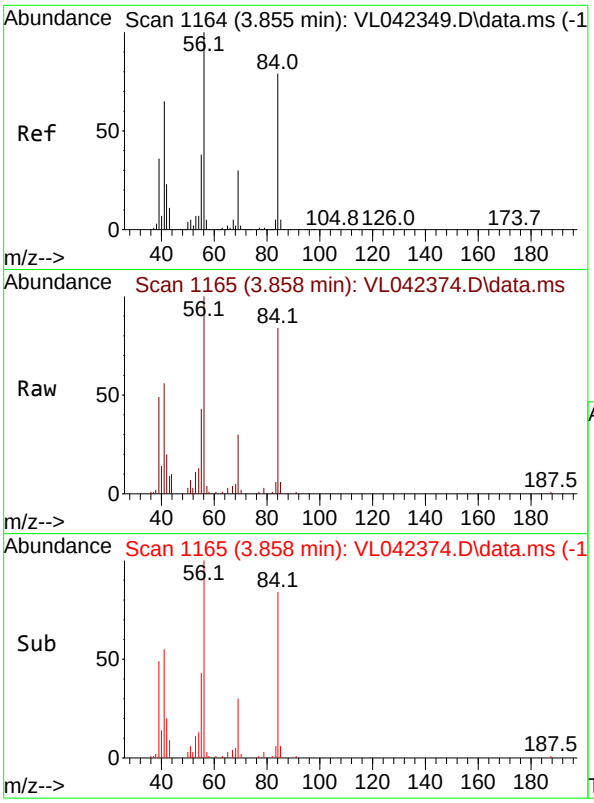


#27
Carbon Disulfide
Concen: 0.180 ppbv
RT: 2.149 min Scan# 637
Delta R.T. 0.000 min
Lab File: VL042374.D
Acq: 18 Apr 2025 00:28

Tgt Ion: 76 Resp: 3292

Ion	Ratio	Lower	Upper
76	100		
44	104.8	15.5	23.3#
78	26.8	9.3	13.9#



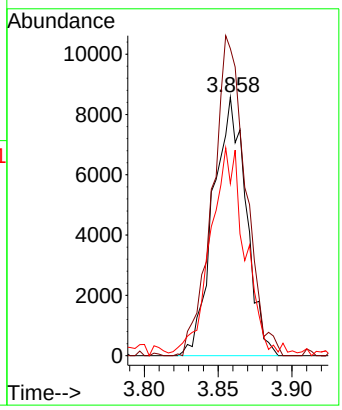


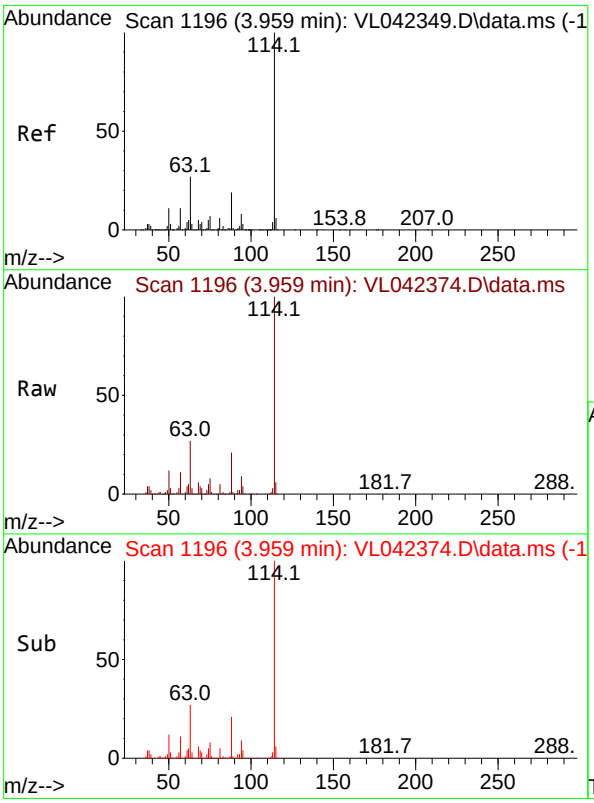
#30
Cyclohexane
Concen: 0.966 ppbv
RT: 3.858 min Scan# 11
Delta R.T. 0.003 min
Lab File: VL042374.D
Acq: 18 Apr 2025 00:28

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025DL

Tgt Ion: 84 Resp: 13322

Ion	Ratio	Lower	Upper
84	100		
56	124.4	101.0	151.4
41	88.1	67.4	101.0

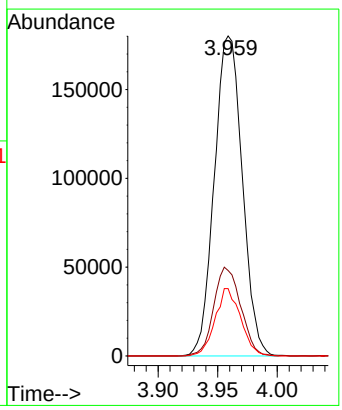


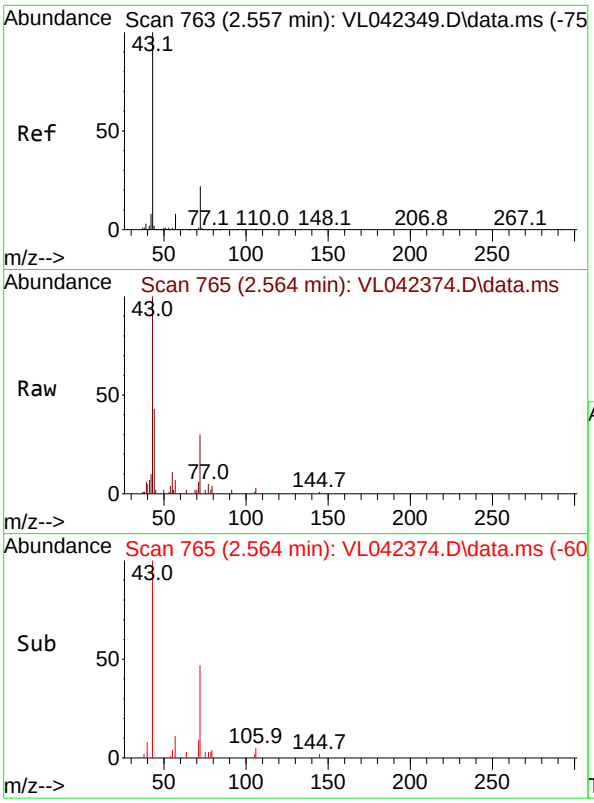


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.959 min Scan# 1196
Delta R.T. 0.000 min
Lab File: VL042374.D
Acq: 18 Apr 2025 00:28

Tgt Ion:114 Resp: 294101

Ion	Ratio	Lower	Upper
114	100		
63	26.8	21.8	32.6
88	19.2	15.5	23.3



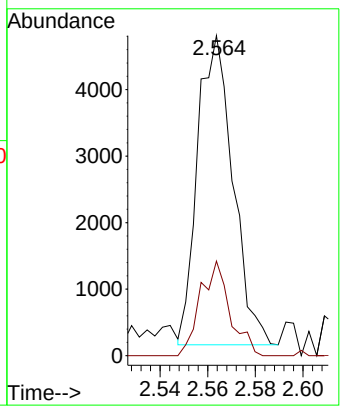


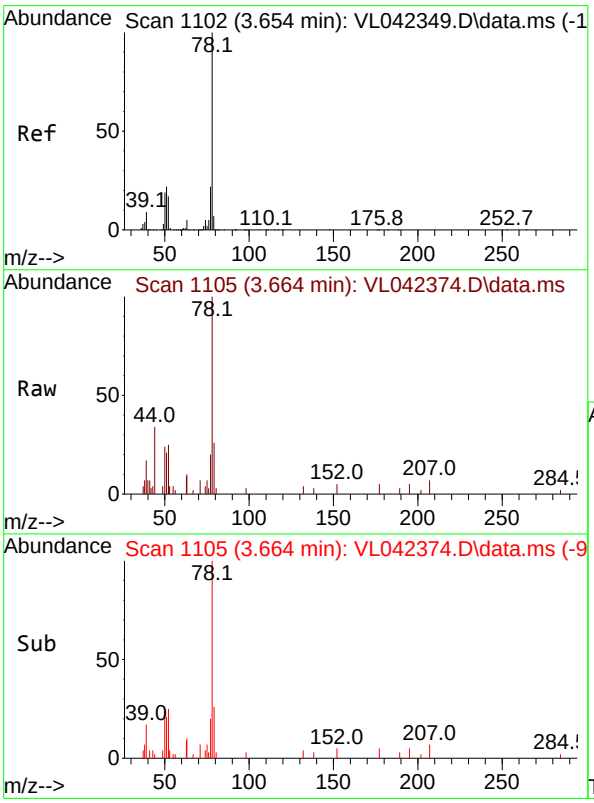
#34
2-Butanone
Concen: 0.206 ppbv
RT: 2.564 min Scan# 7
Delta R.T. 0.006 min
Lab File: VL042374.D
Acq: 18 Apr 2025 00:28

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025DL

Tgt Ion: 43 Resp: 4793

Ion	Ratio	Lower	Upper
43	100		
72	25.6	18.2	27.2

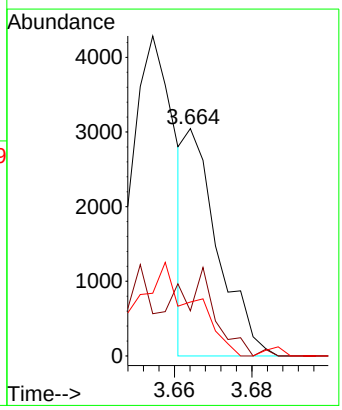


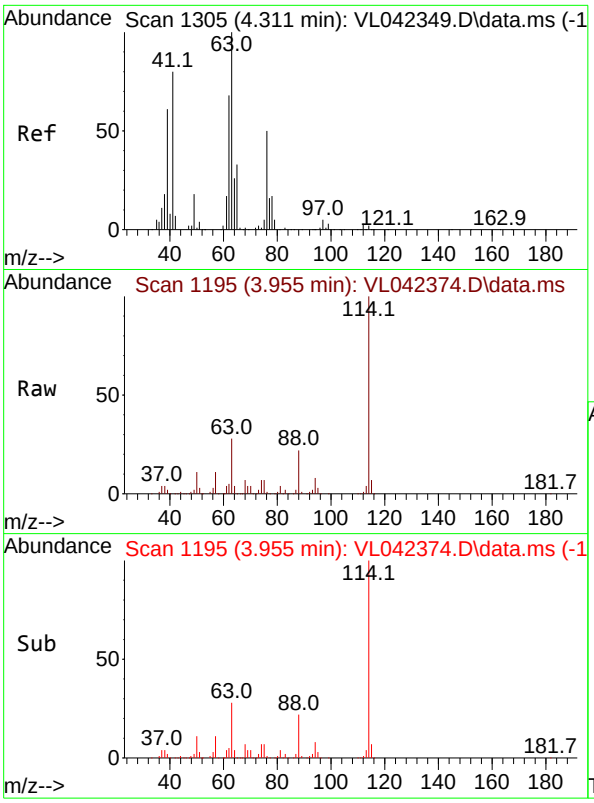


#36
Benzene
Concen: 0.056 ppbv
RT: 3.664 min Scan# 1105
Delta R.T. 0.010 min
Lab File: VL042374.D
Acq: 18 Apr 2025 00:28

Tgt Ion: 78 Resp: 1791

Ion	Ratio	Lower	Upper
78	100		
77	19.9	17.4	26.0
50	19.7	15.5	23.3



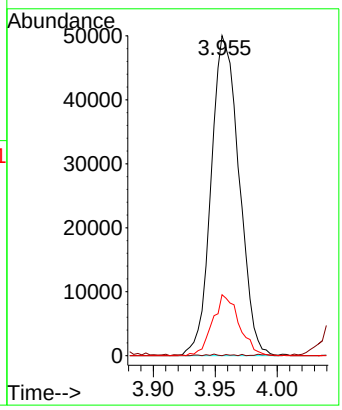


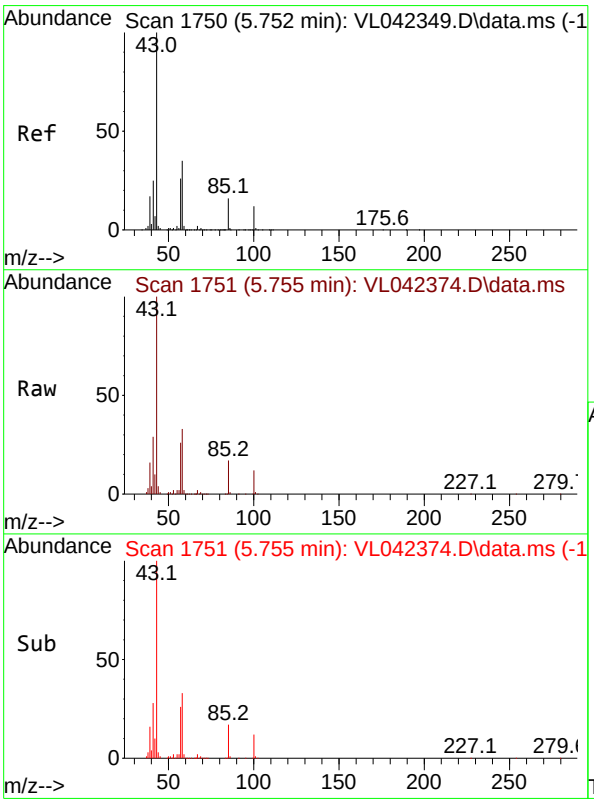
#39
1,2-Dichloropropane
Concen: 6.649 ppbv
RT: 3.955 min Scan# 11
Delta R.T. -0.356 min
Lab File: VL042374.D
Acq: 18 Apr 2025 00:28

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025DL

Tgt Ion: 63 Resp: 78594

Ion	Ratio	Lower	Upper
63	100		
41	0.0	64.2	96.2#
62	19.1	54.3	81.5#

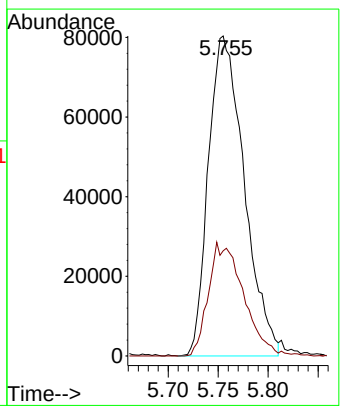


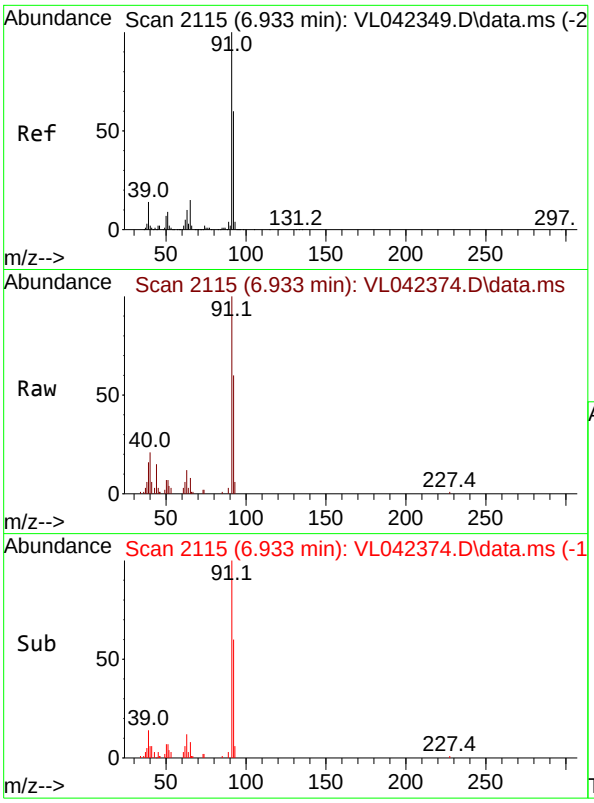


#50
4-Methyl-2-Pentanone
Concen: 5.180 ppbv
RT: 5.755 min Scan# 1751
Delta R.T. 0.003 min
Lab File: VL042374.D
Acq: 18 Apr 2025 00:28

Tgt Ion: 43 Resp: 200233

Ion	Ratio	Lower	Upper
43	100		
58	34.8	28.6	43.0



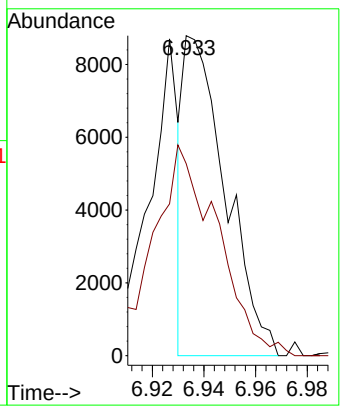


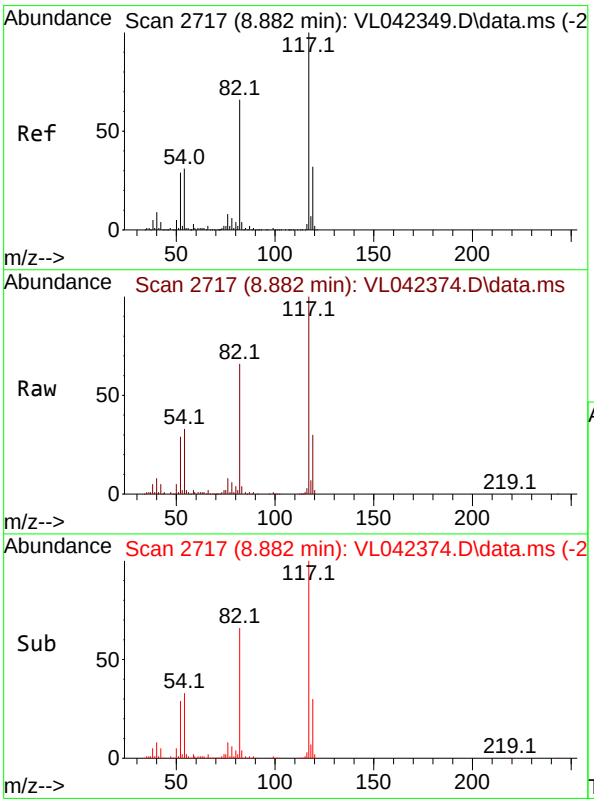
#53
Toluene
Concen: 0.261 ppbv
RT: 6.933 min Scan# 21
Delta R.T. 0.000 min
Lab File: VL042374.D
Acq: 18 Apr 2025 00:28

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025DL

Tgt Ion: 91 Resp: 9949

Ion	Ratio	Lower	Upper
91	100		
92	102.6	48.2	72.4#

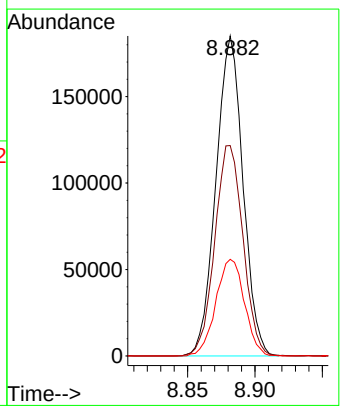


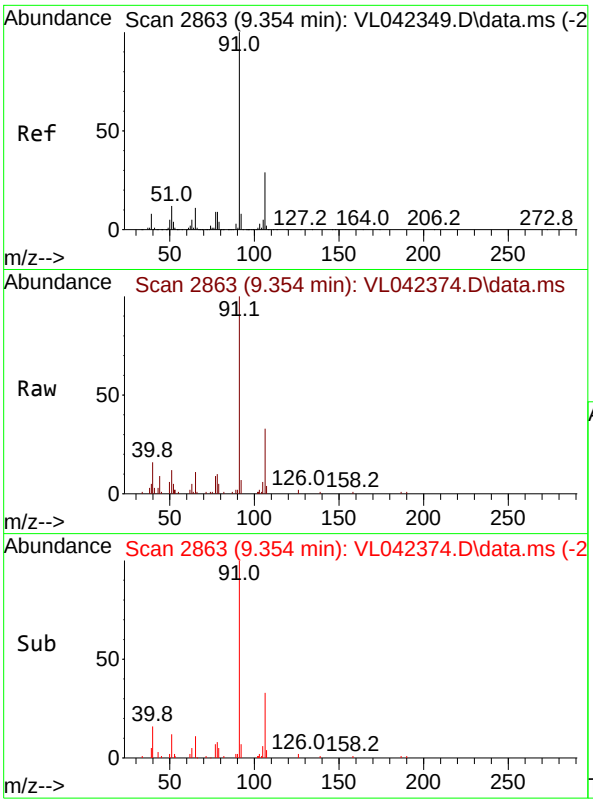


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.882 min Scan# 2717
Delta R.T. 0.000 min
Lab File: VL042374.D
Acq: 18 Apr 2025 00:28

Tgt Ion:117 Resp: 258444

Ion	Ratio	Lower	Upper
117	100		
82	68.7	57.8	86.6
119	31.9	25.2	37.8



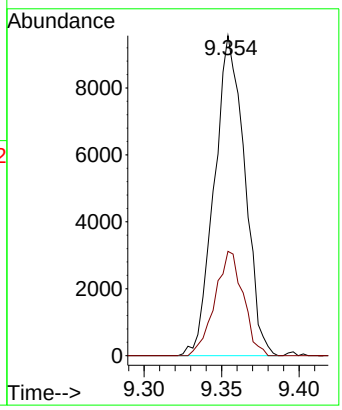


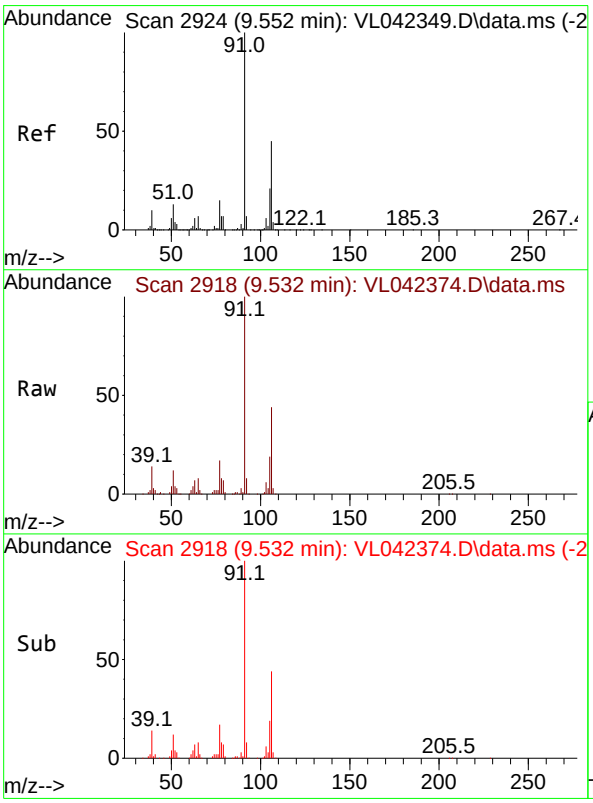
#58
Ethyl Benzene
Concen: 0.254 ppbv
RT: 9.354 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042374.D
Acq: 18 Apr 2025 00:28

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025DL

Tgt Ion: 91 Resp: 13008

Ion	Ratio	Lower	Upper
91	100		
106	32.6	23.0	34.4

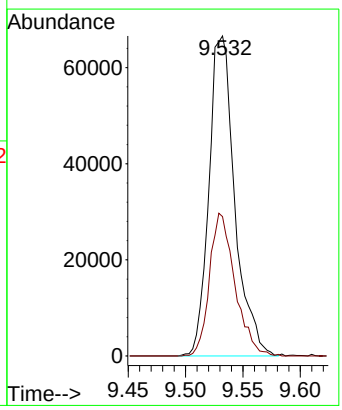


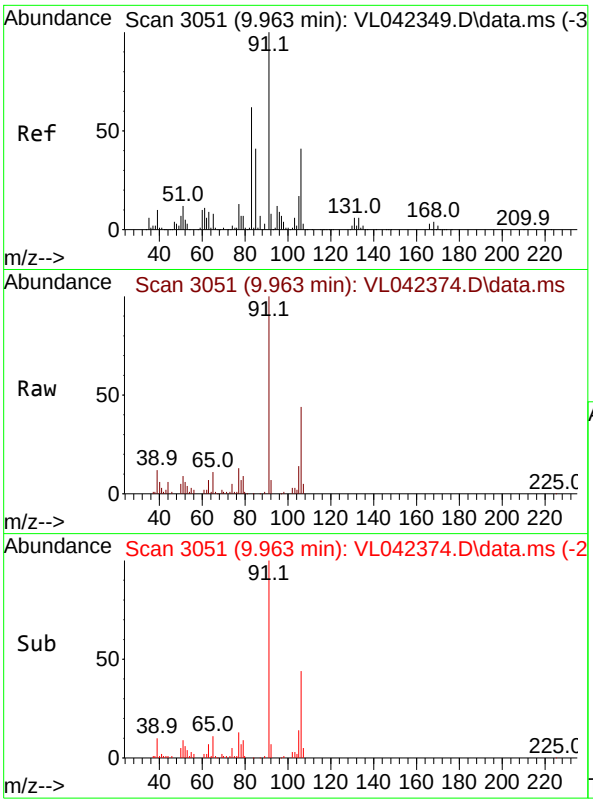


#59
m/p-Xylene
Concen: 2.529 ppbv
RT: 9.532 min Scan# 2918
Delta R.T. -0.019 min
Lab File: VL042374.D
Acq: 18 Apr 2025 00:28

Tgt Ion: 91 Resp: 104338

Ion	Ratio	Lower	Upper
91	100		
106	43.8	35.4	53.2



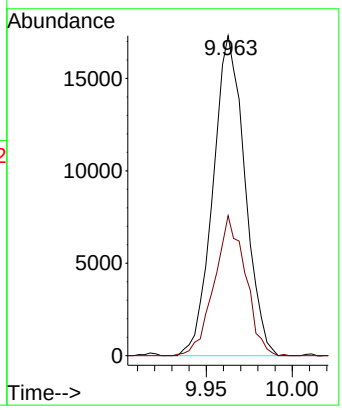


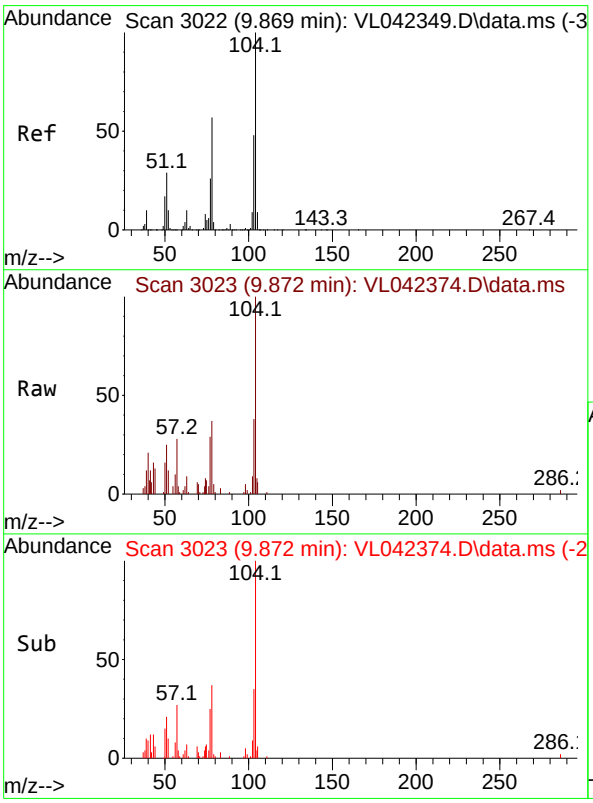
#60
o-Xylene
Concen: 0.536 ppbv
RT: 9.963 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042374.D
Acq: 18 Apr 2025 00:28

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025DL

Tgt Ion: 91 Resp: 22264

Ion	Ratio	Lower	Upper
91	100		
106	42.8	21.1	63.4

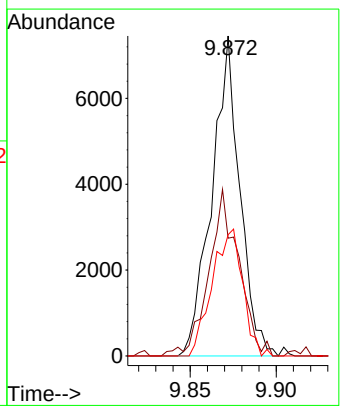


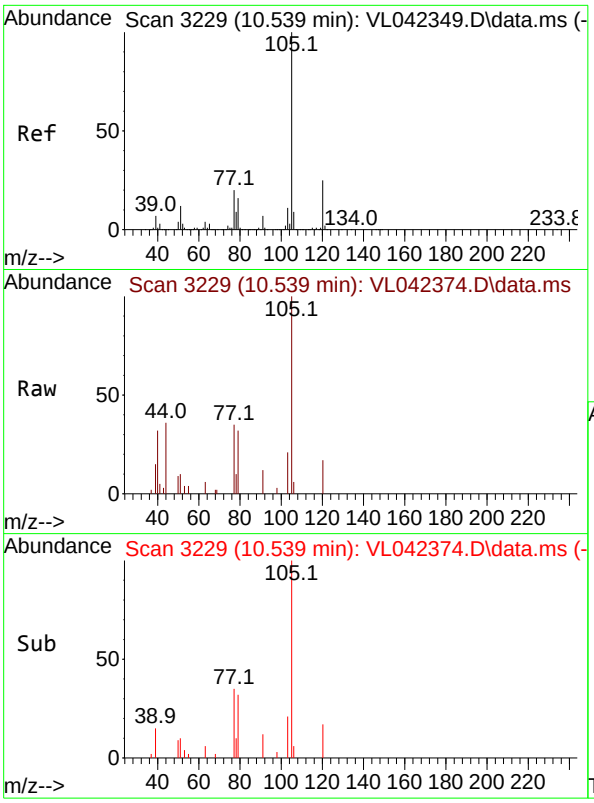


#61
Styrene
Concen: 0.427 ppbv
RT: 9.872 min Scan# 3023
Delta R.T. 0.003 min
Lab File: VL042374.D
Acq: 18 Apr 2025 00:28

Tgt Ion:104 Resp: 8460

Ion	Ratio	Lower	Upper
104	100		
78	57.0	44.6	66.8
103	43.3	37.4	56.0



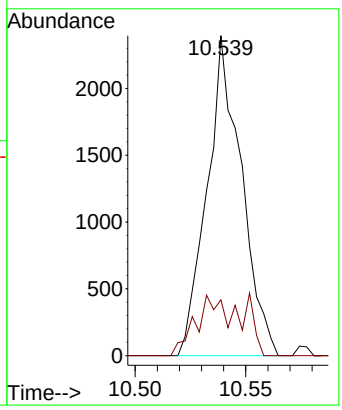


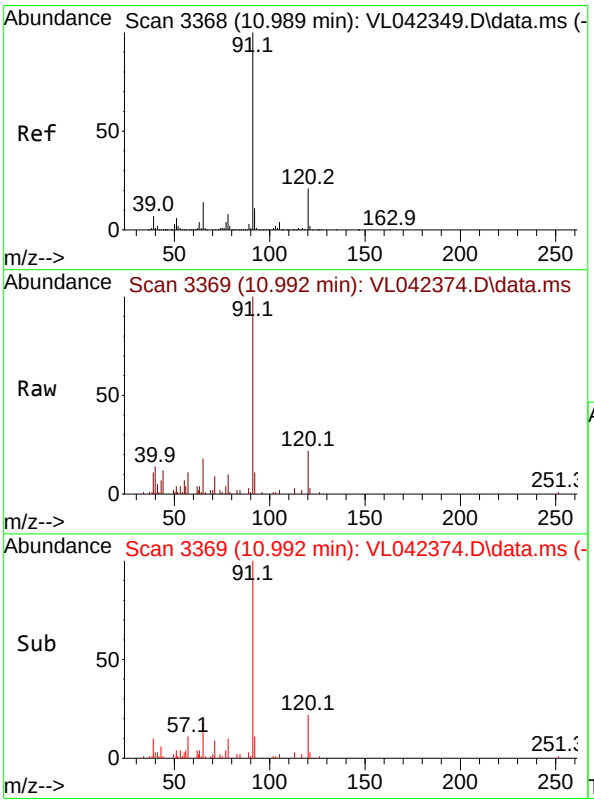
#62
Isopropylbenzene
Concen: 0.042 ppbv
RT: 10.539 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042374.D
Acq: 18 Apr 2025 00:28

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025DL

Tgt Ion:105 Resp: 2585

Ion	Ratio	Lower	Upper
105	100		
120	24.7	19.8	29.8

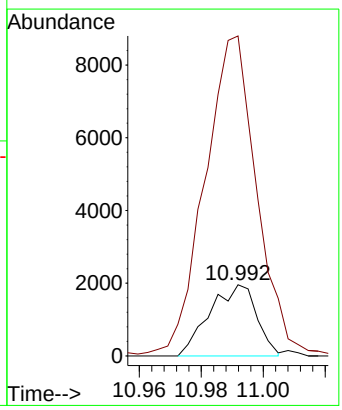


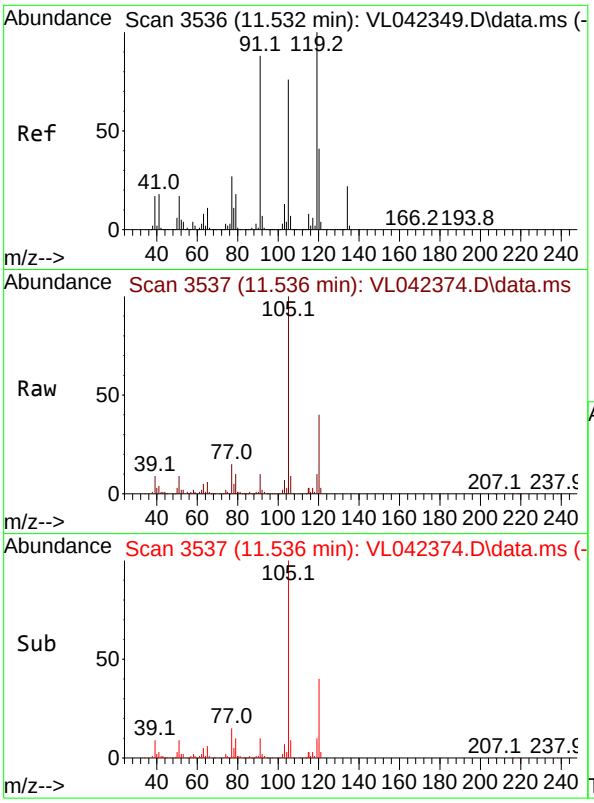


#64
n-propylbenzene
Concen: 0.135 ppbv
RT: 10.992 min Scan# 3369
Delta R.T. 0.003 min
Lab File: VL042374.D
Acq: 18 Apr 2025 00:28

Tgt Ion:120 Resp: 2068

Ion	Ratio	Lower	Upper
120	100		
91	513.7	392.4	588.6



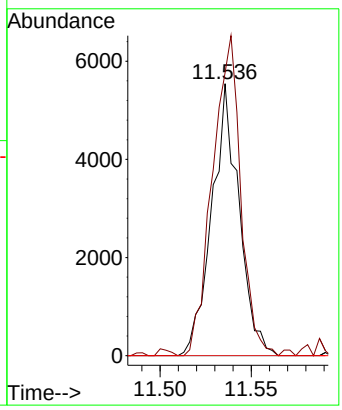


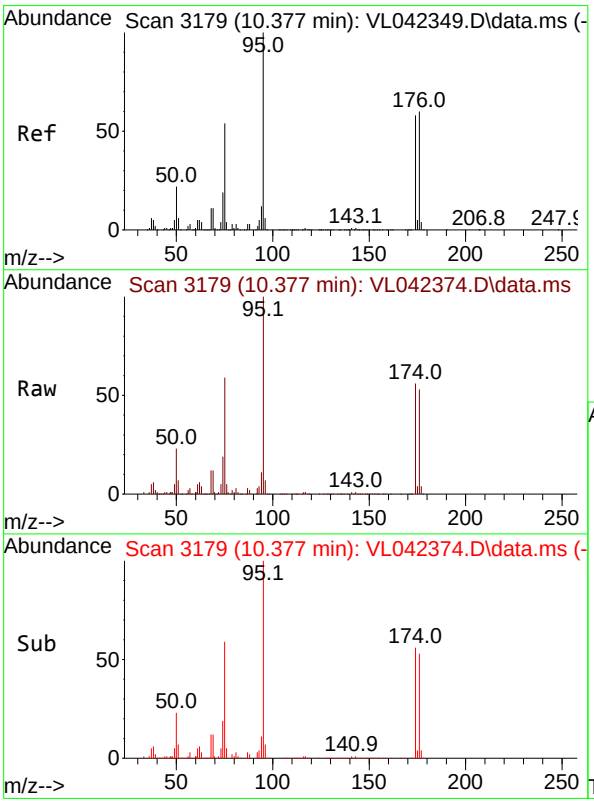
#65
tert-Butylbenzene
Concen: 0.102 ppbv
RT: 11.536 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042374.D
Acq: 18 Apr 2025 00:28

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025DL

Tgt Ion:119 Resp: 5744

Ion	Ratio	Lower	Upper
119	100		
91	124.0	74.6	111.8#
134	0.0	18.8	28.2#

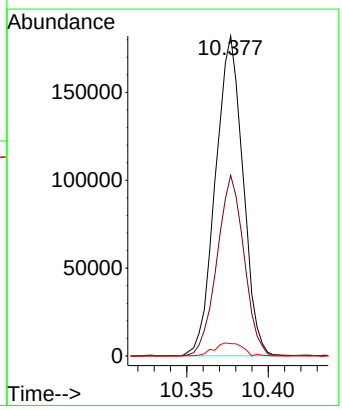


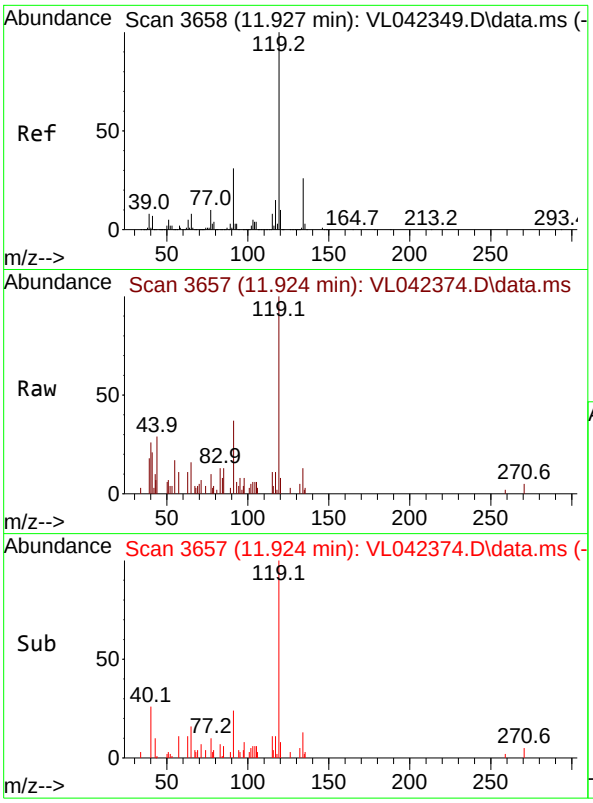


#68
1-Bromo-4-Fluorobenzene
Concen: 10.036 ppbv
RT: 10.377 min Scan# 3179
Delta R.T. 0.000 min
Lab File: VL042374.D
Acq: 18 Apr 2025 00:28

Tgt Ion: 95 Resp: 213140

Ion	Ratio	Lower	Upper
95	100		
174	55.7	48.5	72.7
175	4.3	3.7	5.5



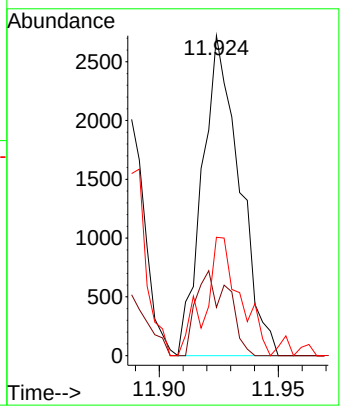


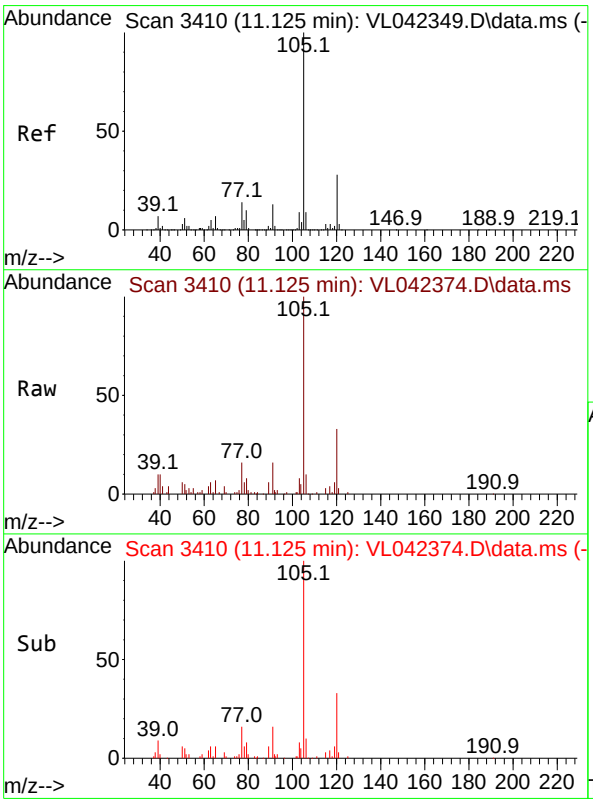
#69
p-Isopropyltoluene
Concen: 0.044 ppbv
RT: 11.924 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042374.D
Acq: 18 Apr 2025 00:28

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025DL

Tgt Ion:119 Resp: 2965

Ion	Ratio	Lower	Upper
119	100		
134	23.0	20.0	30.0
91	37.5	24.4	36.6#

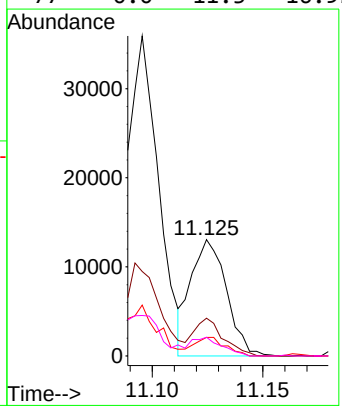


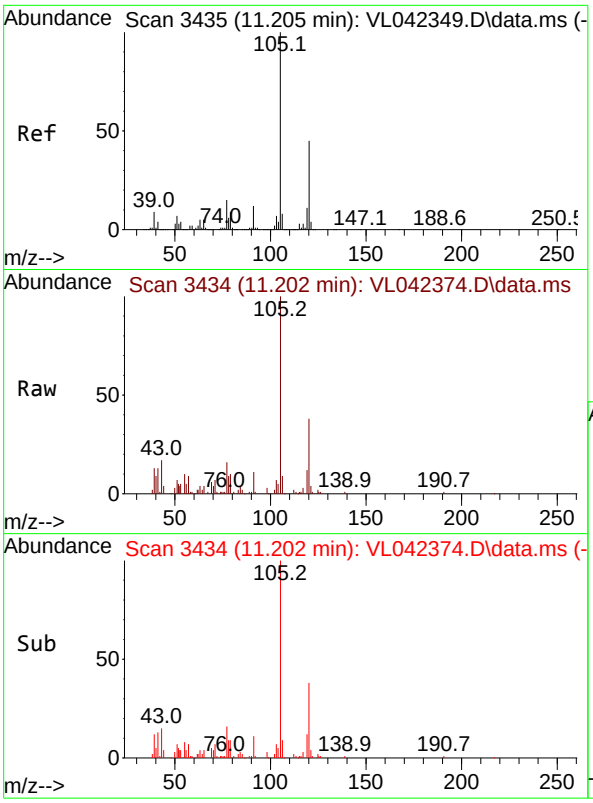


#72
4-Ethyltoluene
Concen: 0.289 ppbv
RT: 11.125 min Scan# 3410
Delta R.T. 0.000 min
Lab File: VL042374.D
Acq: 18 Apr 2025 00:28

Tgt Ion:105 Resp: 14677

Ion	Ratio	Lower	Upper
105	100		
120	0.0	23.2	34.8#
91	0.0	10.4	15.6#
77	0.0	11.3	16.9#



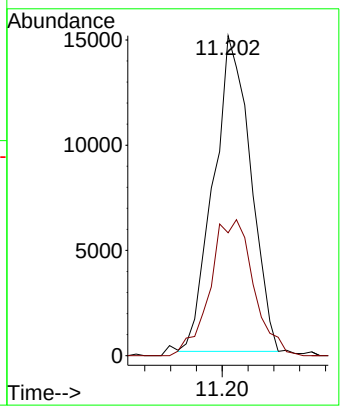


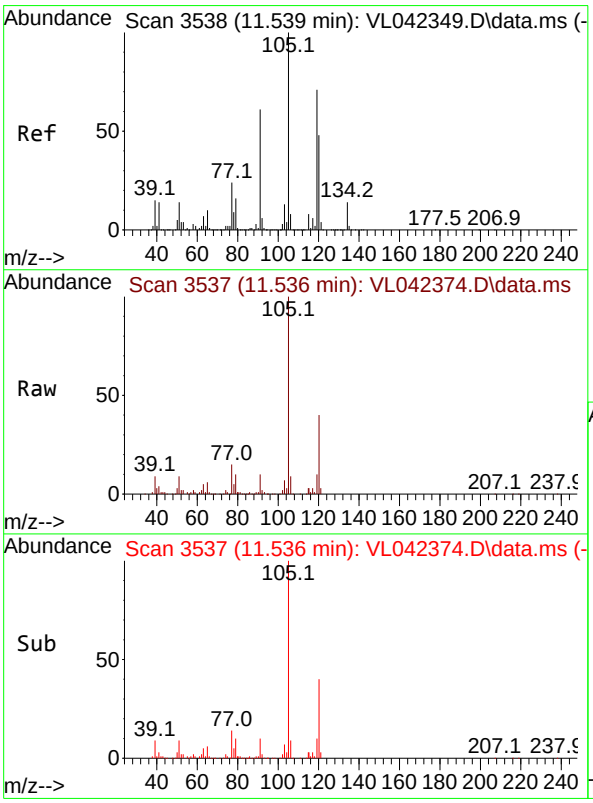
#73
1,3,5-Trimethylbenzene
Concen: 0.334 ppbv
RT: 11.202 min Scan# 34
Delta R.T. -0.003 min
Lab File: VL042374.D
Acq: 18 Apr 2025 00:28

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025DL

Tgt Ion:105 Resp: 14990

Ion	Ratio	Lower	Upper
105	100		
120	37.5	35.6	53.4

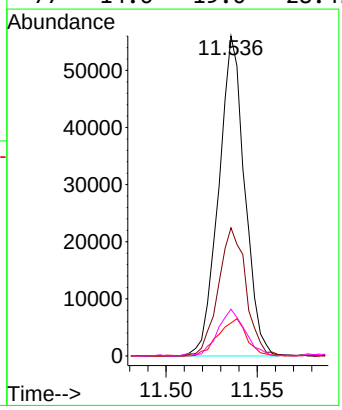


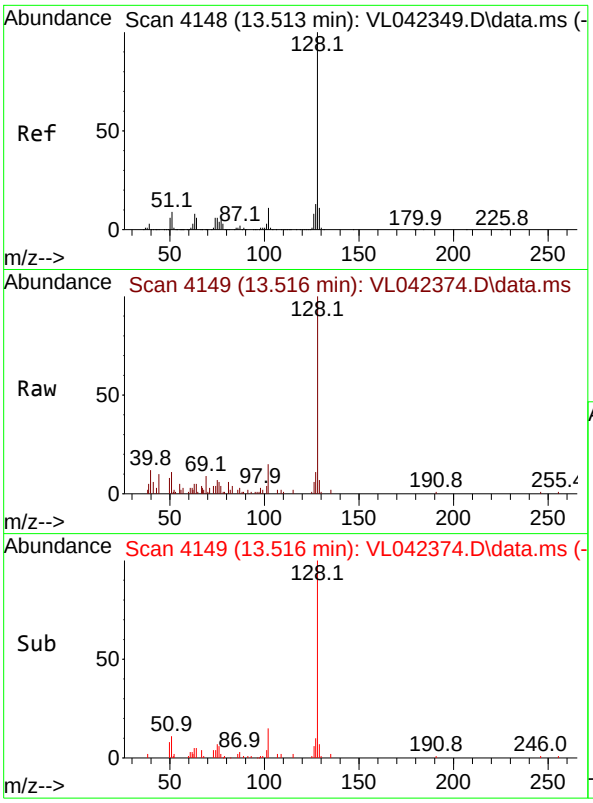


#74
1,2,4-Trimethylbenzene
Concen: 1.062 ppbv
RT: 11.536 min Scan# 3537
Delta R.T. -0.003 min
Lab File: VL042374.D
Acq: 18 Apr 2025 00:28

Tgt Ion:105 Resp: 55625

Ion	Ratio	Lower	Upper
105	100		
120	40.1	38.1	57.1
91	10.2	48.8	73.2#
77	14.6	19.0	28.4#



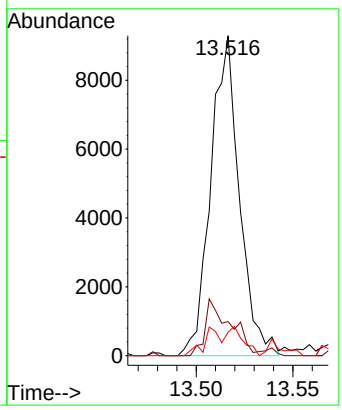


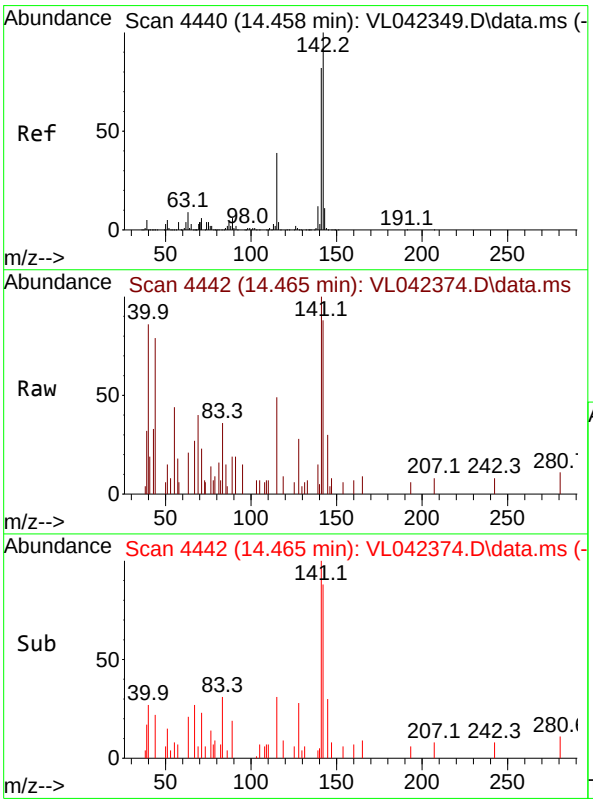
#79
Naphthalene
Concen: 0.153 ppbv
RT: 13.516 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL042374.D
Acq: 18 Apr 2025 00:28

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025DL

Tgt Ion:128 Resp: 9572

Ion	Ratio	Lower	Upper
128	100		
127	10.6	10.6	15.8
129	7.3	8.6	12.8#

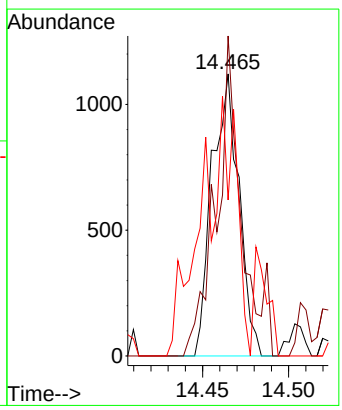




#80
Naphthalene,2-methyl-
Concen: 0.034 ppbv
RT: 14.465 min Scan# 4442
Delta R.T. 0.007 min
Lab File: VL042374.D
Acq: 18 Apr 2025 00:28

Tgt Ion:142 Resp: 1218

Ion	Ratio	Lower	Upper
142	100		
141	105.7	66.8	100.2#
115	134.5	33.4	50.2#



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042375.D
Acq On : 18 Apr 2025 00:59
Operator : SY/MD
Sample : Q1668-03DL 4X
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-3-3252025DL

Quant Time: Apr 18 04:38:48 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration

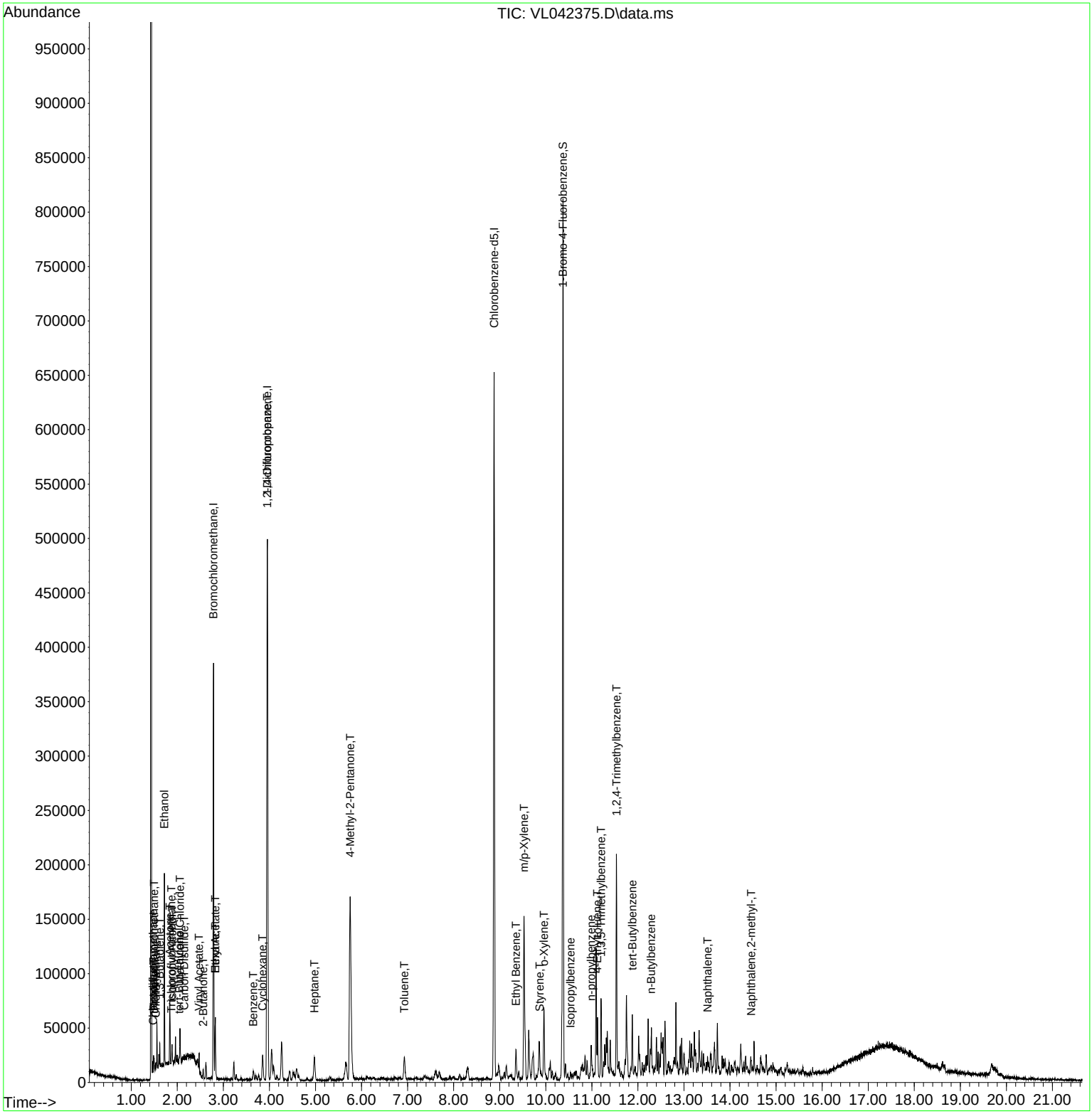
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.787	49	102685	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.955	114	291278	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.878	117	253844	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.374	95	212240	10.175	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 101.700%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.499	85	2776	0.153	ppbv		95
3) Chlorodifluoromethane	1.476	51	2764	0.160	ppbv		97
4) Chloromethane	1.531	50	1399	0.195	ppbv	#	59
9) Propene	1.486	41	1821	0.231	ppbv		93
10) Heptane	4.978	43	9132	0.413	ppbv		97
11) Trichlorofluoromethane	1.874	101	1281	0.074	ppbv		90
13) Ethanol	1.719	45	62213	49.750	ppbv		76
15) Acetone	1.835	43	27092	1.612	ppbv		99
16) 1,3-Butadiene	1.619	39	1244	0.155	ppbv	#	42
17) tert-Butyl alcohol	2.043	59	976	0.047	ppbv	#	1
19) Isopropyl Alcohol	1.887	45	6854	0.734	ppbv	#	1
20) Methylene Chloride	2.059	84	4314	0.655	ppbv	#	91
23) Vinyl Acetate	2.470	43	7447	1.094	ppbv	#	51
25) Ethyl Acetate	2.826	43	9332	0.225	ppbv	#	78
26) Hexane	2.826	57	13454	0.802	ppbv	#	34
27) Carbon Disulfide	2.149	76	1143	0.064	ppbv	#	1
30) Cyclohexane	3.852	84	6275	0.463	ppbv	#	89
34) 2-Butanone	2.560	43	4829	0.210	ppbv		92
36) Benzene	3.651	78	2897	0.092	ppbv	#	85
39) 1,2-Dichloropropane	3.952	63	80069	6.839	ppbv	#	23
50) 4-Methyl-2-Pentanone	5.755	43	153256	4.003	ppbv		98
53) Toluene	6.930	91	8749	0.232	ppbv	#	56
58) Ethyl Benzene	9.354	91	14757	0.293	ppbv		95
59) m/p-Xylene	9.529	91	84682	2.090	ppbv		99
60) o-Xylene	9.963	91	28511	0.699	ppbv		100
61) Styrene	9.869	104	3276	0.168	ppbv	#	88
62) Isopropylbenzene	10.536	105	1800	0.030	ppbv	#	71
64) n-propylbenzene	10.985	120	2319	0.154	ppbv	#	52
65) tert-Butylbenzene	11.879	119	4345	0.079	ppbv		97
70) n-Butylbenzene	12.287	91	5965	0.086	ppbv	#	80
72) 4-Ethyltoluene	11.121	105	17311	0.347	ppbv	#	56
73) 1,3,5-Trimethylbenzene	11.202	105	20692	0.470	ppbv		100
74) 1,2,4-Trimethylbenzene	11.536	105	73024	1.420	ppbv	#	61
79) Naphthalene	13.510	128	6160	0.100	ppbv	#	96
80) Naphthalene,2-methyl-	14.458	142	1863	0.053	ppbv	#	45

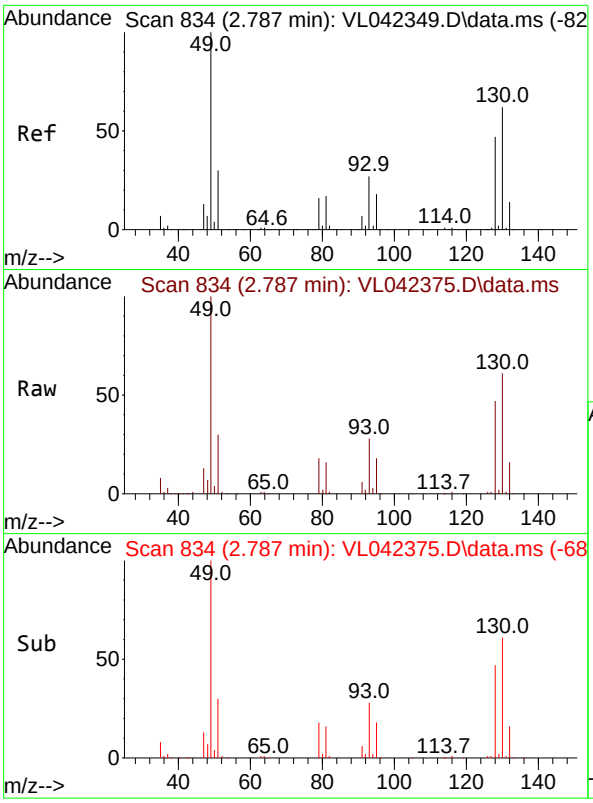
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042375.D
Acq On : 18 Apr 2025 00:59
Operator : SY/MD
Sample : Q1668-03DL 4X
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-3-3252025DL

Quant Time: Apr 18 04:38:48 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration



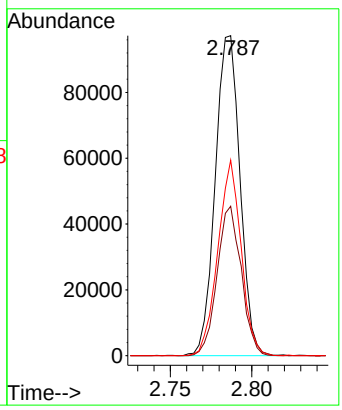


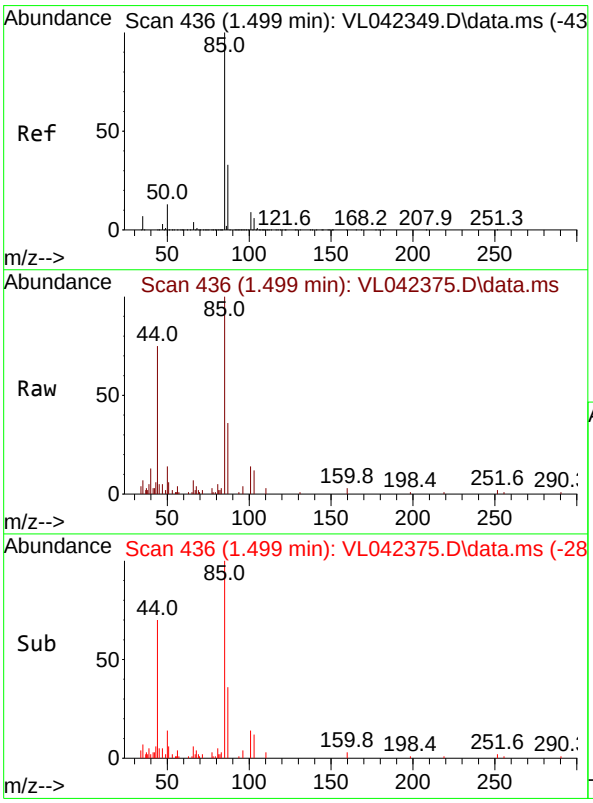
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 8
Delta R.T. 0.000 min
Lab File: VL042375.D
Acq: 18 Apr 2025 00:59

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-3-3252025DL

Tgt Ion: 49 Resp: 102685

Ion	Ratio	Lower	Upper
49	100		
128	45.4	22.8	68.4
130	57.2	29.3	88.0

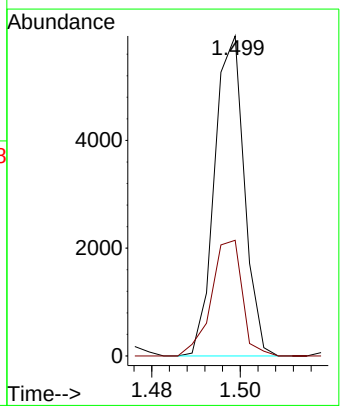


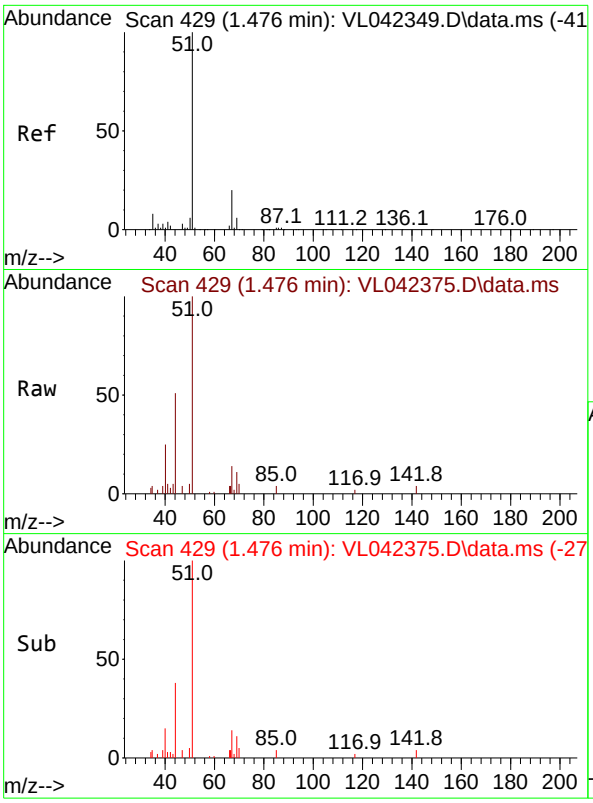


#2
Dichlorodifluoromethane
Concen: 0.153 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.000 min
Lab File: VL042375.D
Acq: 18 Apr 2025 00:59

Tgt Ion: 85 Resp: 2776

Ion	Ratio	Lower	Upper
85	100		
87	36.2	26.6	39.8



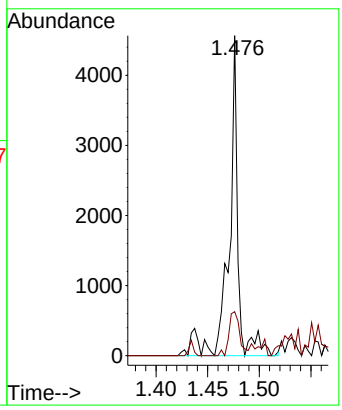


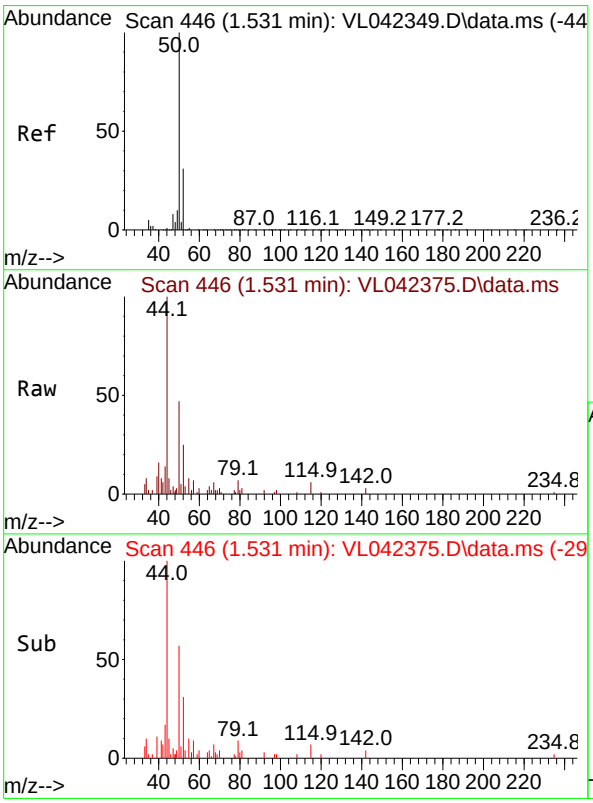
#3
Chlorodifluoromethane
Concen: 0.160 ppbv
RT: 1.476 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042375.D
Acq: 18 Apr 2025 00:59

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-3-3252025DL

Tgt Ion: 51 Resp: 2764

Ion	Ratio	Lower	Upper
51	100		
67	21.7	16.2	24.4

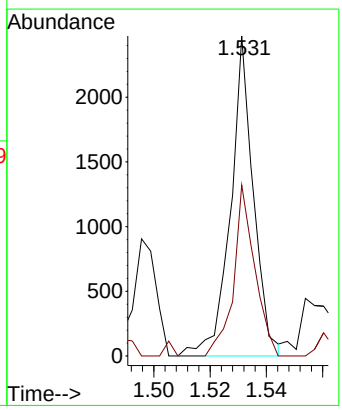


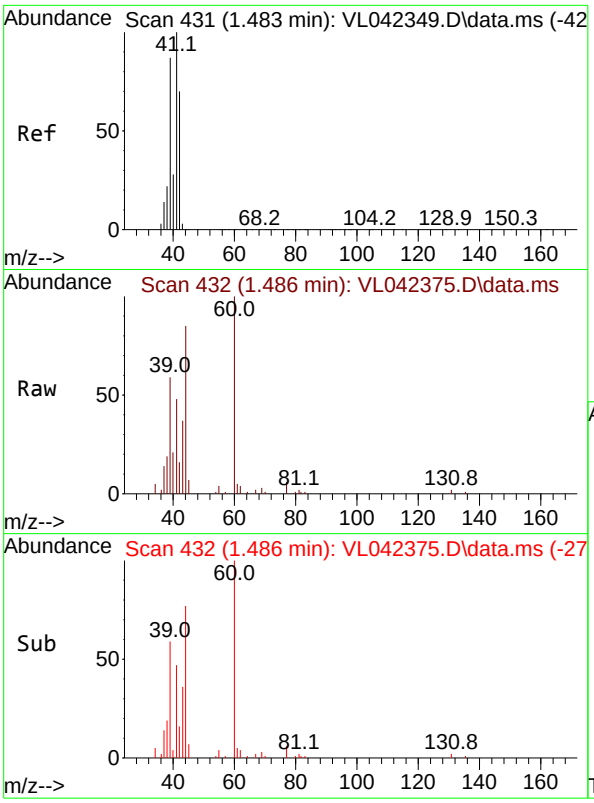


#4
Chloromethane
Concen: 0.195 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL042375.D
Acq: 18 Apr 2025 00:59

Tgt Ion: 50 Resp: 1399

Ion	Ratio	Lower	Upper
50	100		
52	53.5	24.7	37.1#



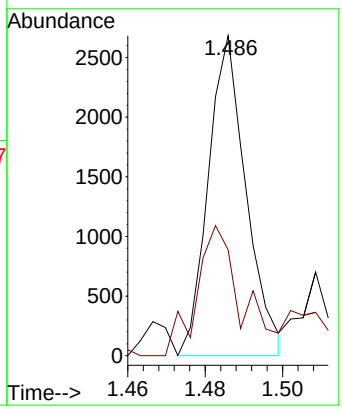


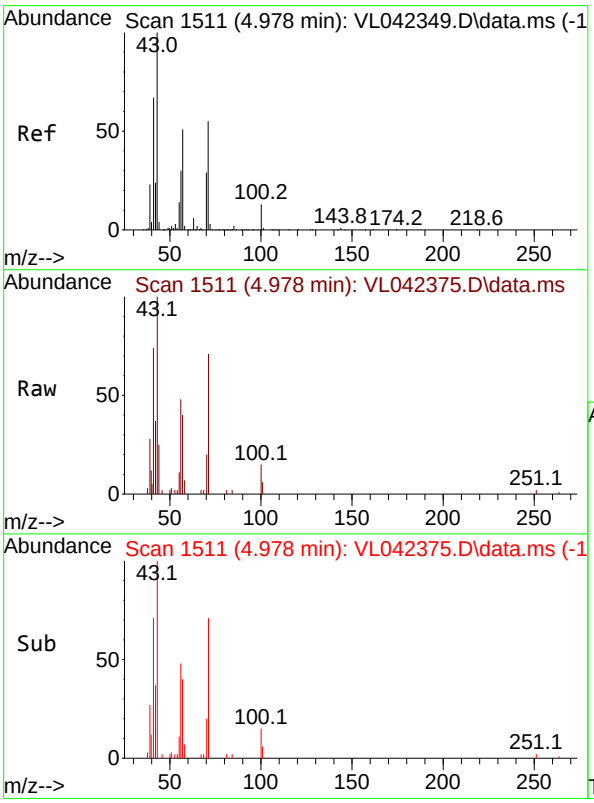
#9
Propene
Concen: 0.231 ppbv
RT: 1.486 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL042375.D
Acq: 18 Apr 2025 00:59

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-3-3252025DL

Tgt Ion: 41 Resp: 1821

Ion	Ratio	Lower	Upper
41	100		
42	64.4	56.2	84.4

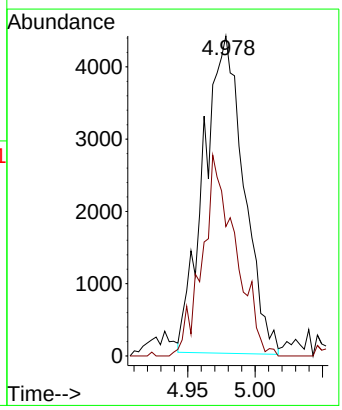


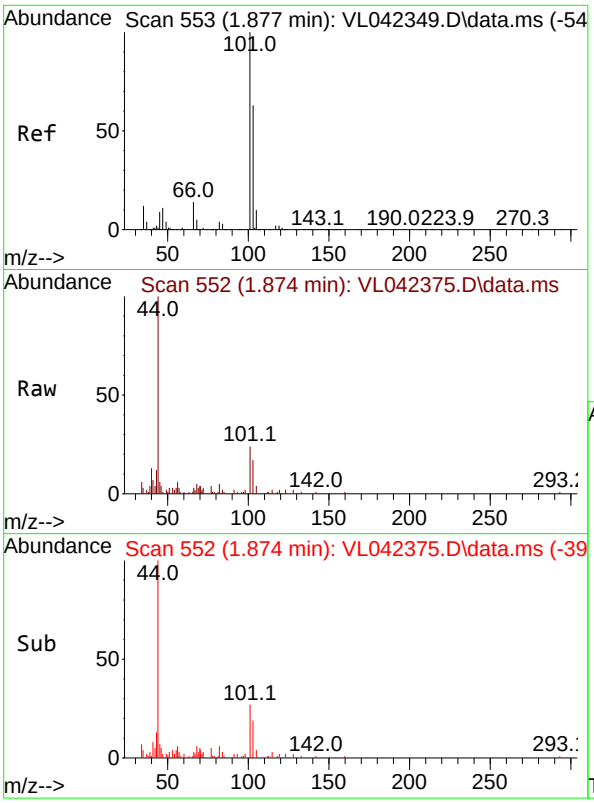


#10
Heptane
Concen: 0.413 ppbv
RT: 4.978 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VL042375.D
Acq: 18 Apr 2025 00:59

Tgt Ion: 43 Resp: 9132

Ion	Ratio	Lower	Upper
43	100		
57	52.1	39.9	59.9



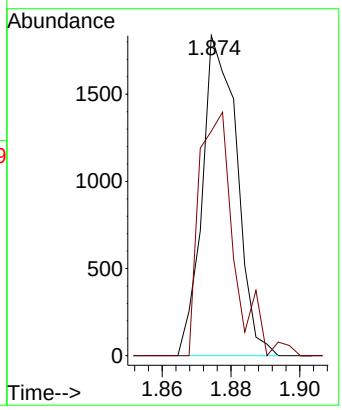


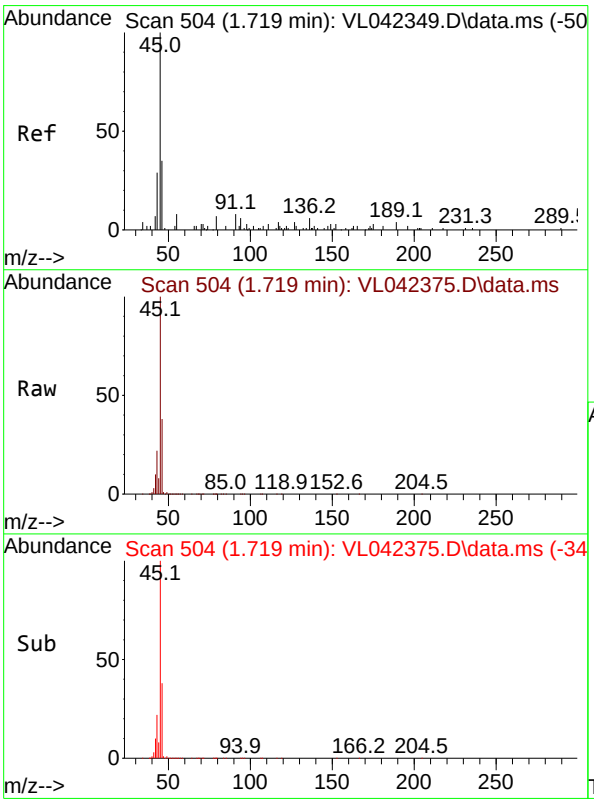
#11
Trichlorofluoromethane
Concen: 0.074 ppbv
RT: 1.874 min Scan# 5
Delta R.T. -0.003 min
Lab File: VL042375.D
Acq: 18 Apr 2025 00:59

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-3-3252025DL

Tgt Ion:101 Resp: 1281

Ion	Ratio	Lower	Upper
101	100		
103	70.2	50.1	75.1

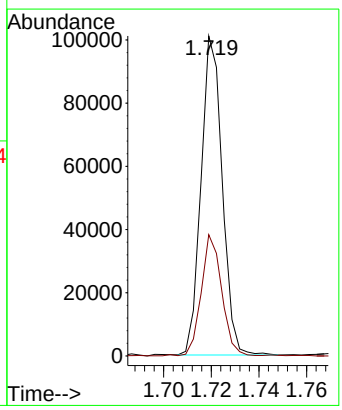


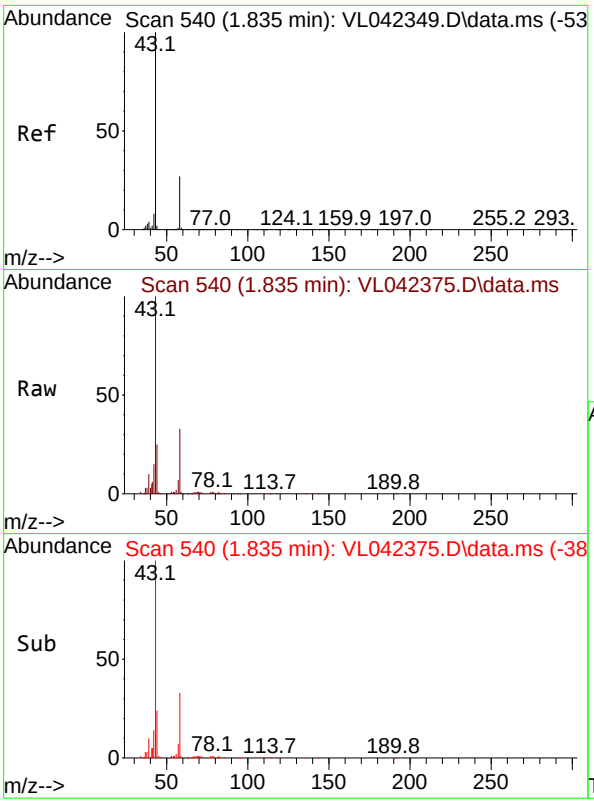


#13
Ethanol
Concen: 49.750 ppbv
RT: 1.719 min Scan# 504
Delta R.T. 0.000 min
Lab File: VL042375.D
Acq: 18 Apr 2025 00:59

Tgt Ion: 45 Resp: 62213

Ion	Ratio	Lower	Upper
45	100		
46	37.6	21.9	87.7



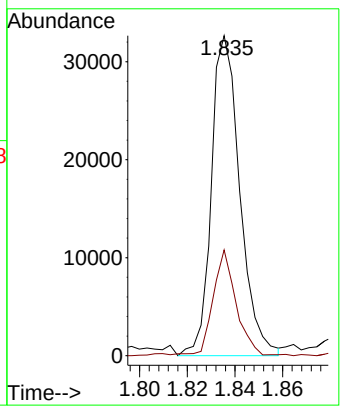


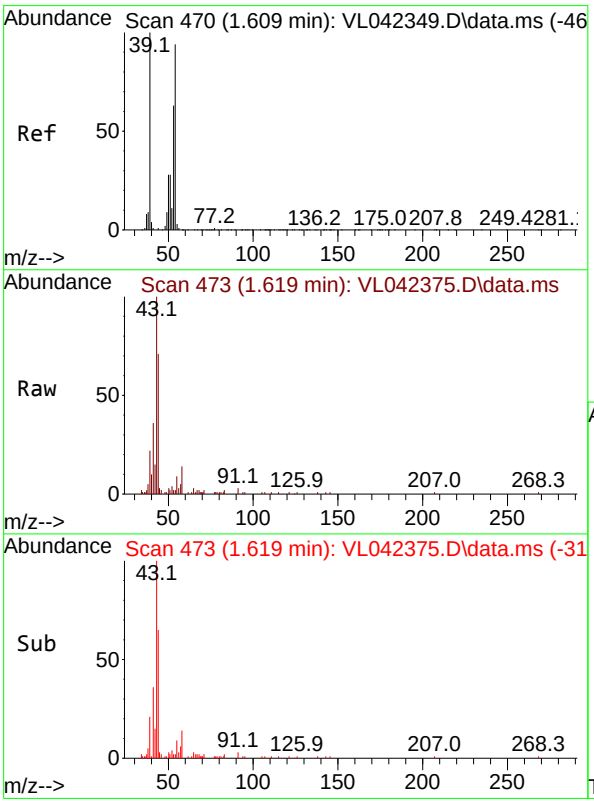
#15
Acetone
Concen: 1.612 ppbv
RT: 1.835 min Scan# 54
Delta R.T. 0.000 min
Lab File: VL042375.D
Acq: 18 Apr 2025 00:59

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-3-3252025DL

Tgt Ion: 43 Resp: 27092

Ion	Ratio	Lower	Upper
43	100		
58	27.4	22.4	33.6

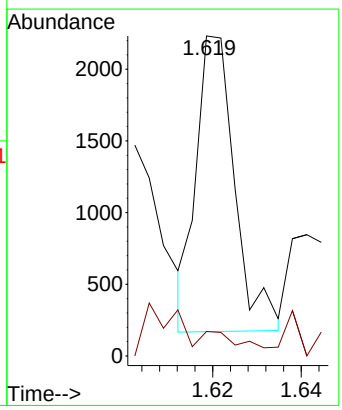


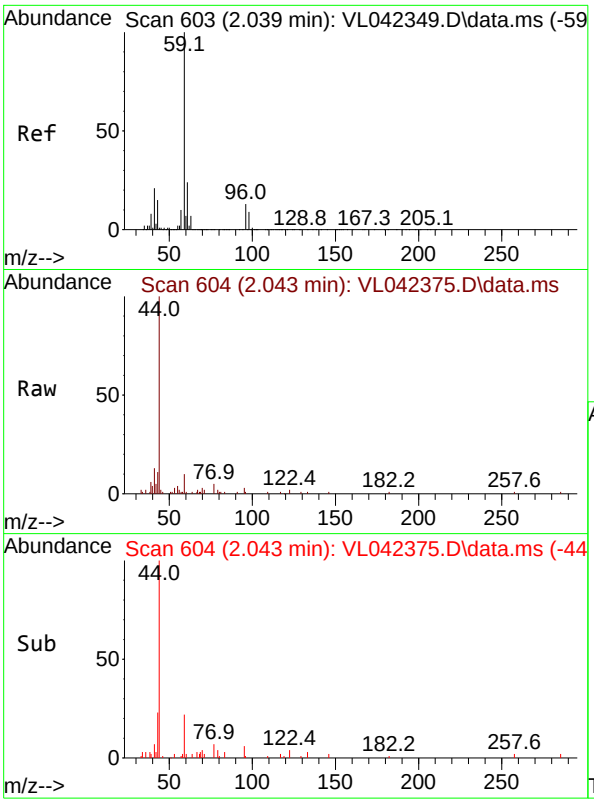


#16
1,3-Butadiene
Concen: 0.155 ppbv
RT: 1.619 min Scan# 473
Delta R.T. 0.010 min
Lab File: VL042375.D
Acq: 18 Apr 2025 00:59

Tgt Ion: 39 Resp: 1244

Ion	Ratio	Lower	Upper
39	100		
54	29.6	64.9	97.3#



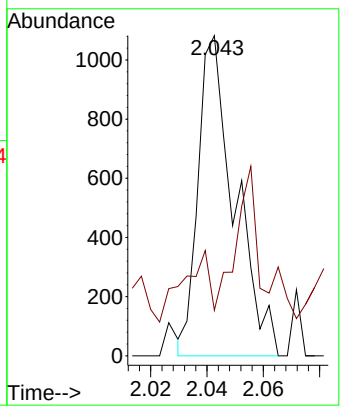


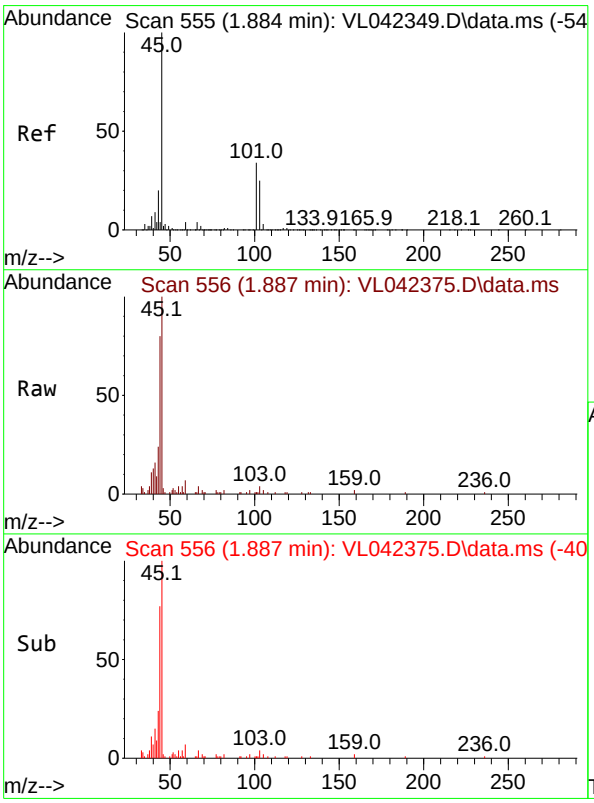
#17
tert-Butyl alcohol
Concen: 0.047 ppbv
RT: 2.043 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL042375.D
Acq: 18 Apr 2025 00:59

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-3-3252025DL

Tgt Ion: 59 Resp: 976

Ion	Ratio	Lower	Upper
59	100		
57	80.8	8.7	13.1#

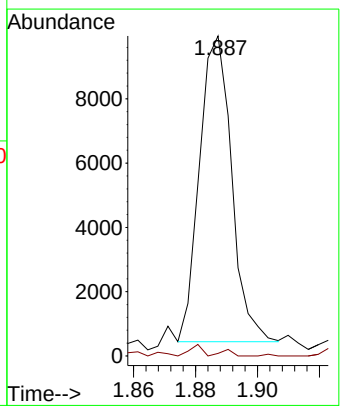


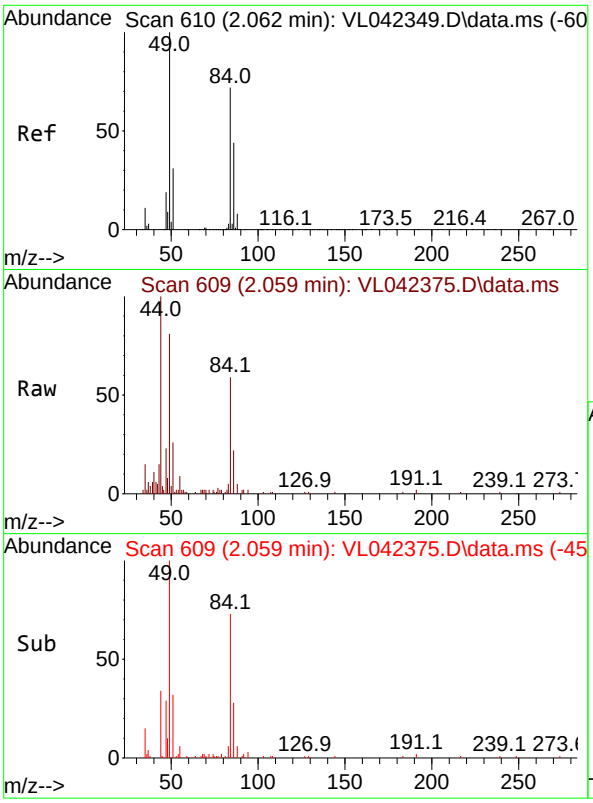


#19
Isopropyl Alcohol
Concen: 0.734 ppbv
RT: 1.887 min Scan# 556
Delta R.T. 0.003 min
Lab File: VL042375.D
Acq: 18 Apr 2025 00:59

Tgt Ion: 45 Resp: 6854

Ion	Ratio	Lower	Upper
45	100		
58	108.5	34.5	51.7#



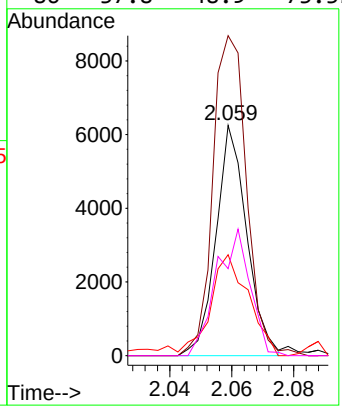


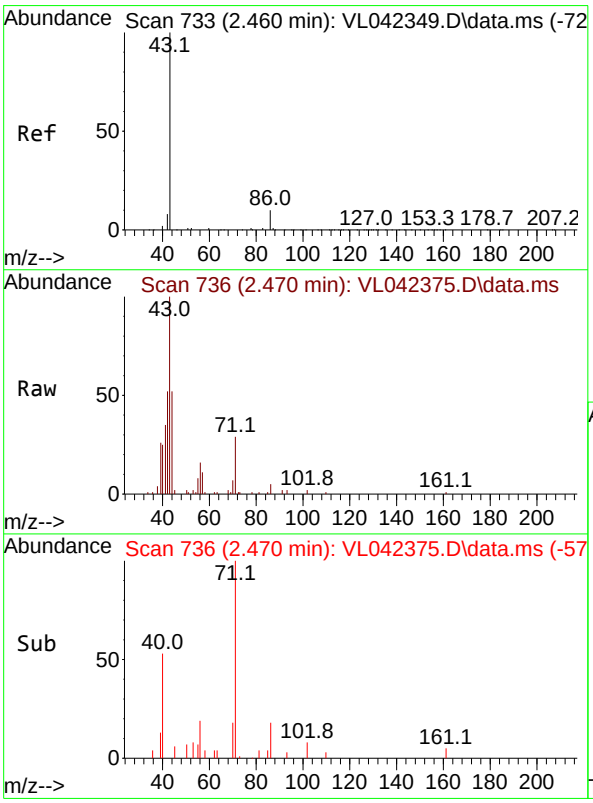
#20
Methylene Chloride
Concen: 0.655 ppbv
RT: 2.059 min Scan# 6
Delta R.T. -0.003 min
Lab File: VL042375.D
Acq: 18 Apr 2025 00:59

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-3-3252025DL

Tgt Ion: 84 Resp: 4314

Ion	Ratio	Lower	Upper
84	100		
49	138.9	111.6	167.4
51	41.7	35.1	52.7
86	37.8	48.9	73.3#

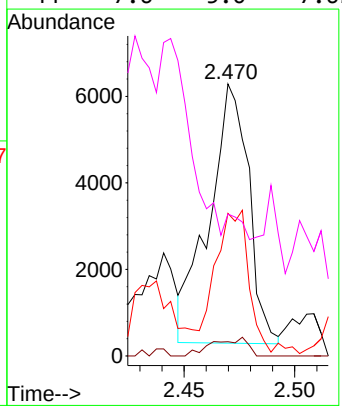


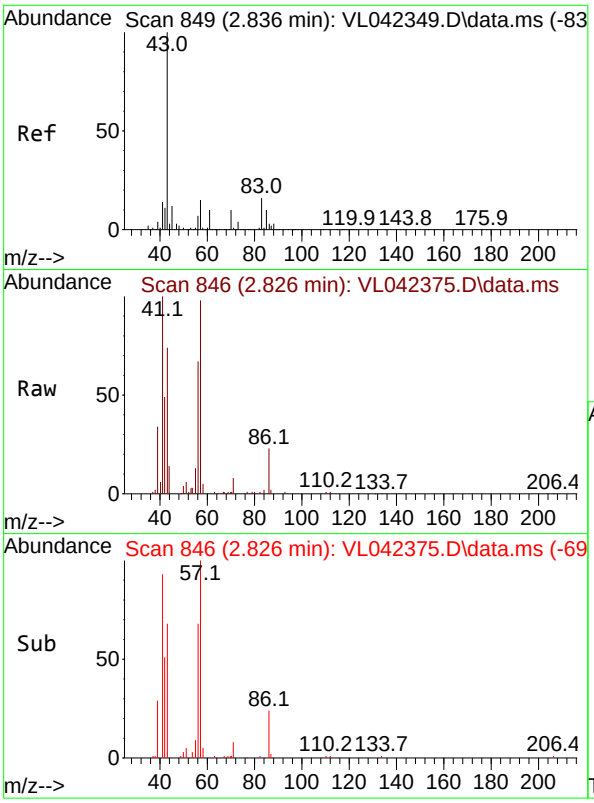


#23
Vinyl Acetate
Concen: 1.094 ppbv
RT: 2.470 min Scan# 736
Delta R.T. 0.010 min
Lab File: VL042375.D
Acq: 18 Apr 2025 00:59

Tgt Ion: 43 Resp: 7447

Ion	Ratio	Lower	Upper
43	100		
86	5.7	6.5	9.7#
42	51.4	7.8	11.8#
44	7.6	5.0	7.6#



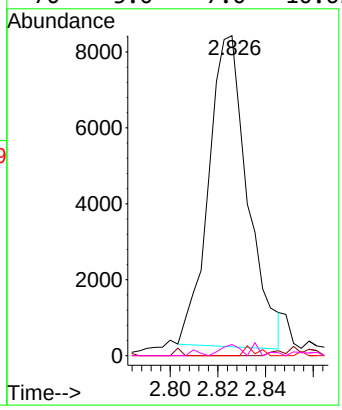


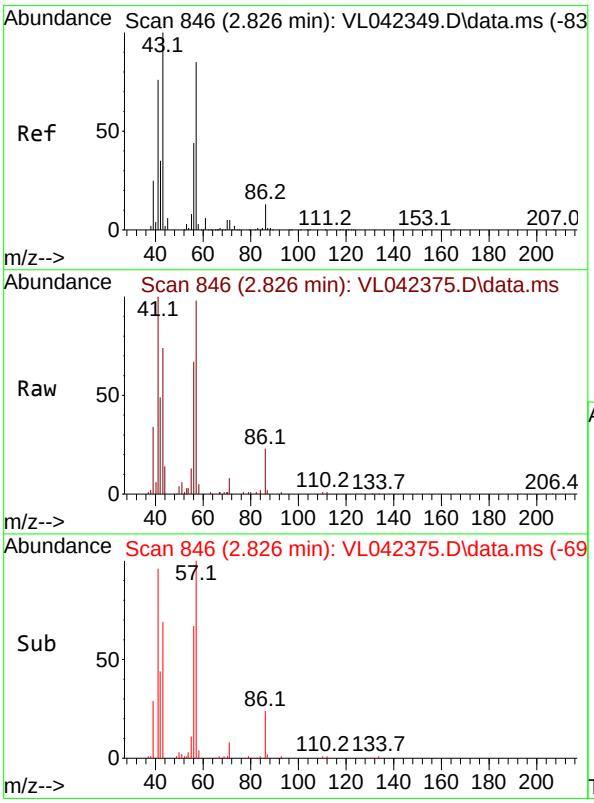
#25
Ethyl Acetate
Concen: 0.225 ppbv
RT: 2.826 min Scan# 84
Delta R.T. -0.010 min
Lab File: VL042375.D
Acq: 18 Apr 2025 00:59

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-3-3252025DL

Tgt Ion: 43 Resp: 9332

Ion	Ratio	Lower	Upper
43	100		
45	0.4	8.3	12.5#
61	1.0	7.3	10.9#
70	3.0	7.0	10.6#

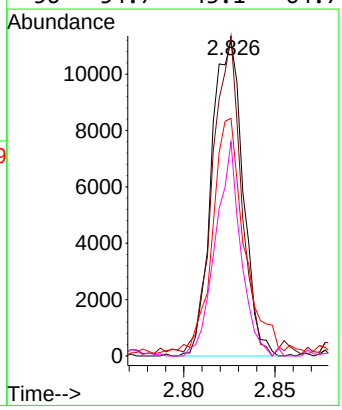


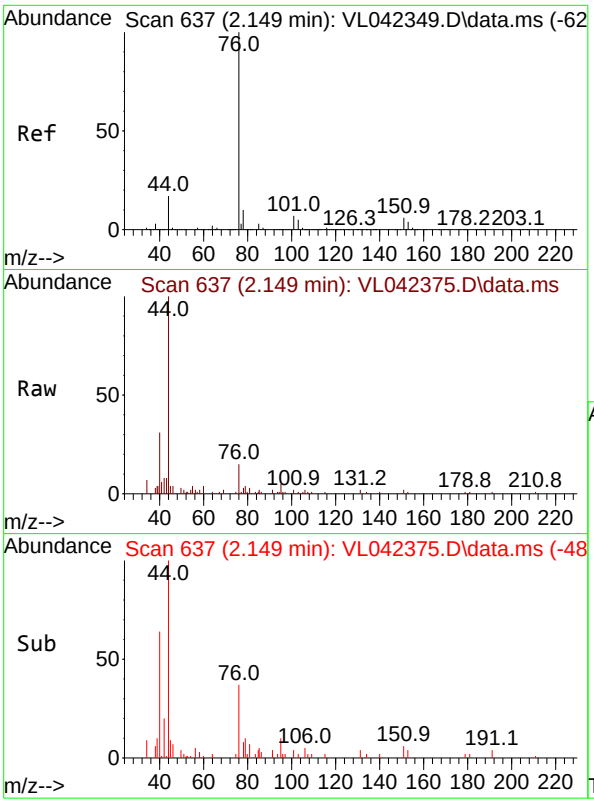


#26
Hexane
Concen: 0.802 ppbv
RT: 2.826 min Scan# 846
Delta R.T. 0.000 min
Lab File: VL042375.D
Acq: 18 Apr 2025 00:59

Tgt Ion: 57 Resp: 13454

Ion	Ratio	Lower	Upper
57	100		
41	91.8	77.9	116.9
43	78.3	208.4	312.6#
56	54.7	43.1	64.7



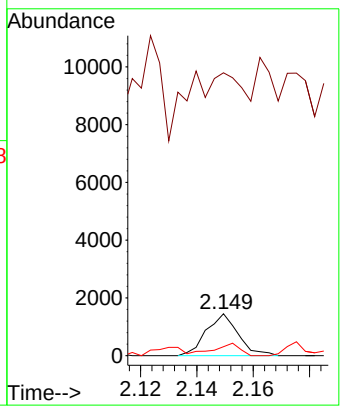


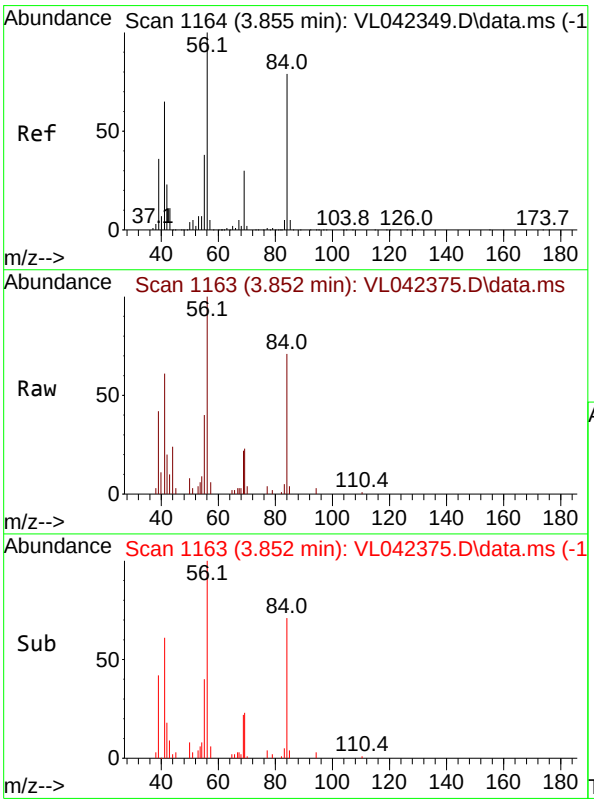
#27
Carbon Disulfide
Concen: 0.064 ppbv
RT: 2.149 min Scan# 6
Delta R.T. 0.000 min
Lab File: VL042375.D
Acq: 18 Apr 2025 00:59

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-3-3252025DL

Tgt Ion: 76 Resp: 1143

Ion	Ratio	Lower	Upper
76	100		
44	1575.8	15.5	23.3#
78	47.1	9.3	13.9#

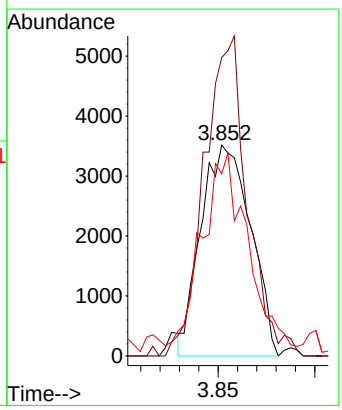


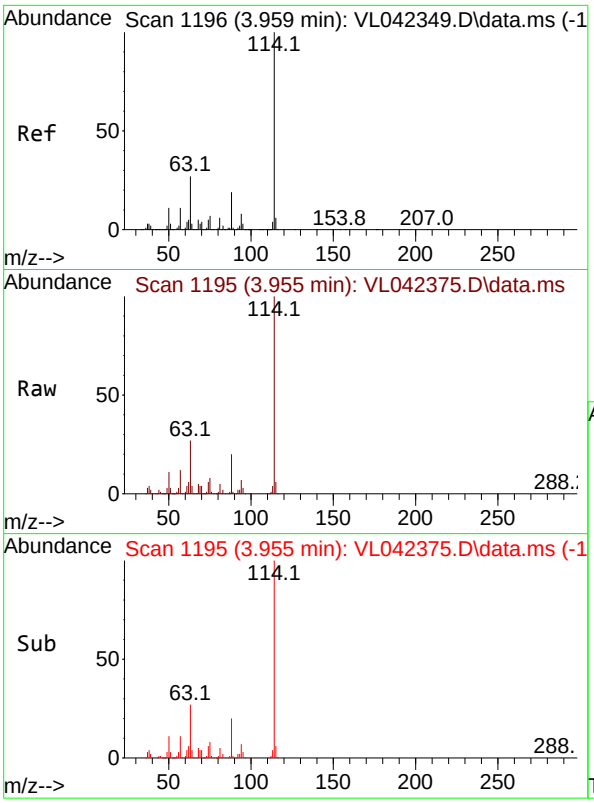


#30
Cyclohexane
Concen: 0.463 ppbv
RT: 3.852 min Scan# 1163
Delta R.T. -0.003 min
Lab File: VL042375.D
Acq: 18 Apr 2025 00:59

Tgt Ion: 84 Resp: 6275

Ion	Ratio	Lower	Upper
84	100		
56	131.3	101.0	151.4
41	103.5	67.4	101.0#



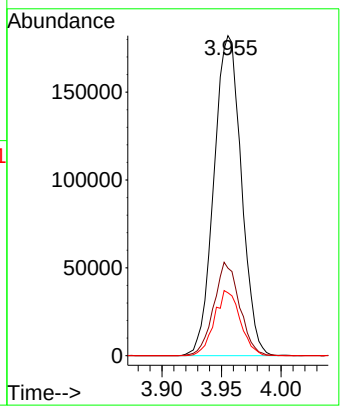


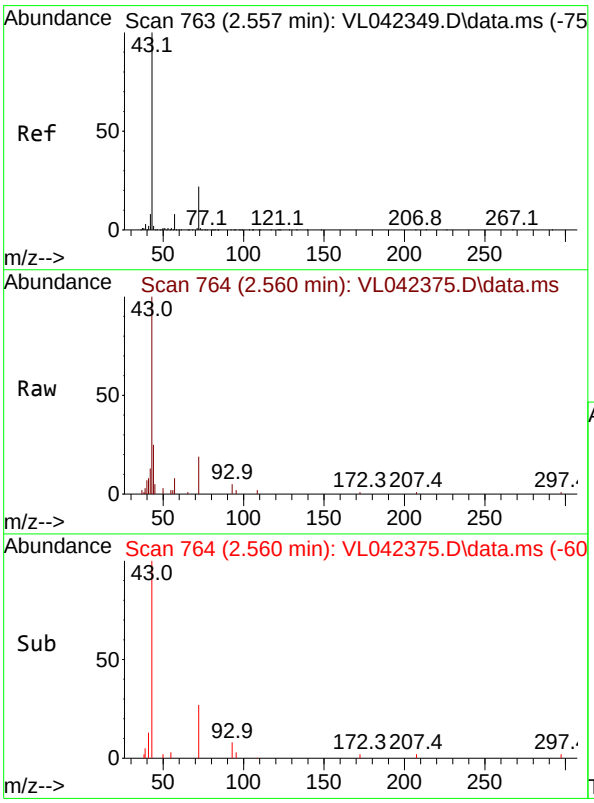
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.955 min Scan# 11
Delta R.T. -0.003 min
Lab File: VL042375.D
Acq: 18 Apr 2025 00:59

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-3-3252025DL

Tgt Ion:114 Resp: 291278

Ion	Ratio	Lower	Upper
114	100		
63	27.5	21.8	32.6
88	19.2	15.5	23.3

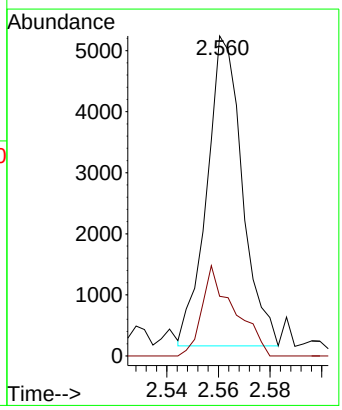


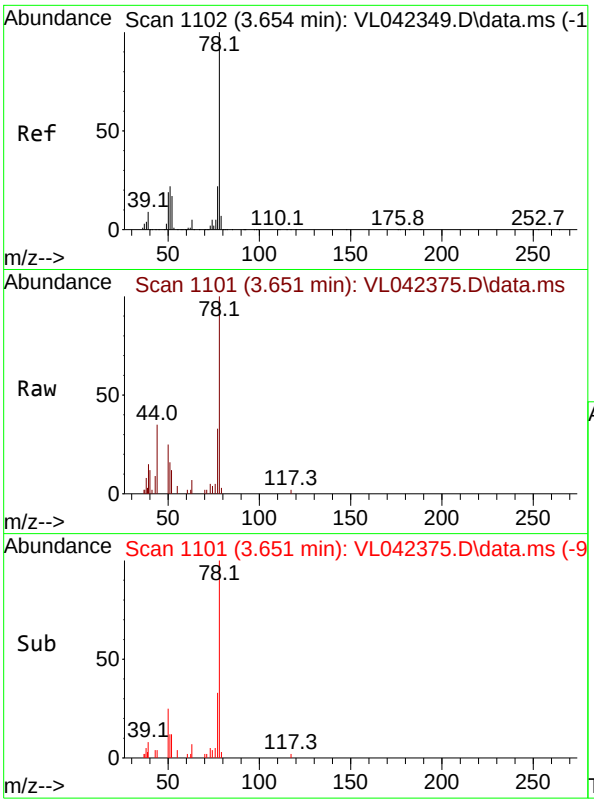


#34
2-Butanone
Concen: 0.210 ppbv
RT: 2.560 min Scan# 764
Delta R.T. 0.003 min
Lab File: VL042375.D
Acq: 18 Apr 2025 00:59

Tgt Ion: 43 Resp: 4829

Ion	Ratio	Lower	Upper
43	100		
72	26.7	18.2	27.2



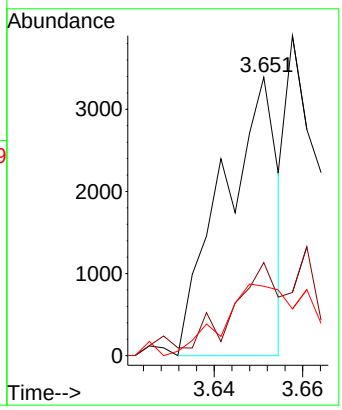


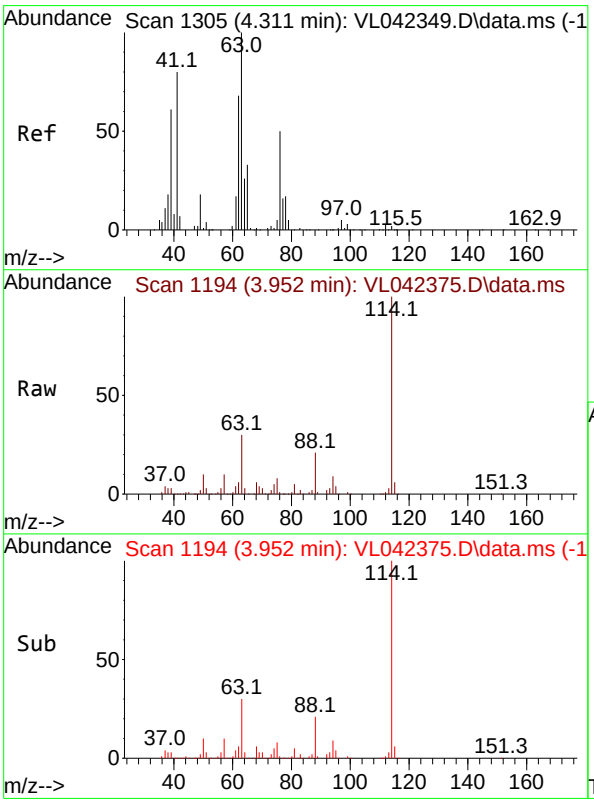
#36
Benzene
Concen: 0.092 ppbv
RT: 3.651 min Scan# 11
Delta R.T. -0.003 min
Lab File: VL042375.D
Acq: 18 Apr 2025 00:59

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-3-3252025DL

Tgt Ion: 78 Resp: 2897

Ion	Ratio	Lower	Upper
78	100		
77	31.3	17.4	26.0#
50	23.8	15.5	23.3#

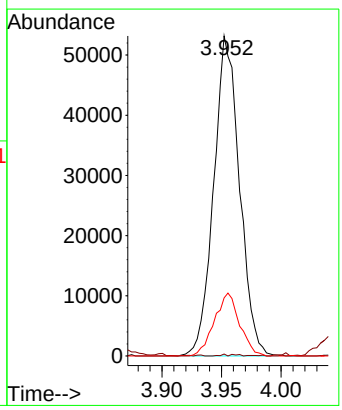


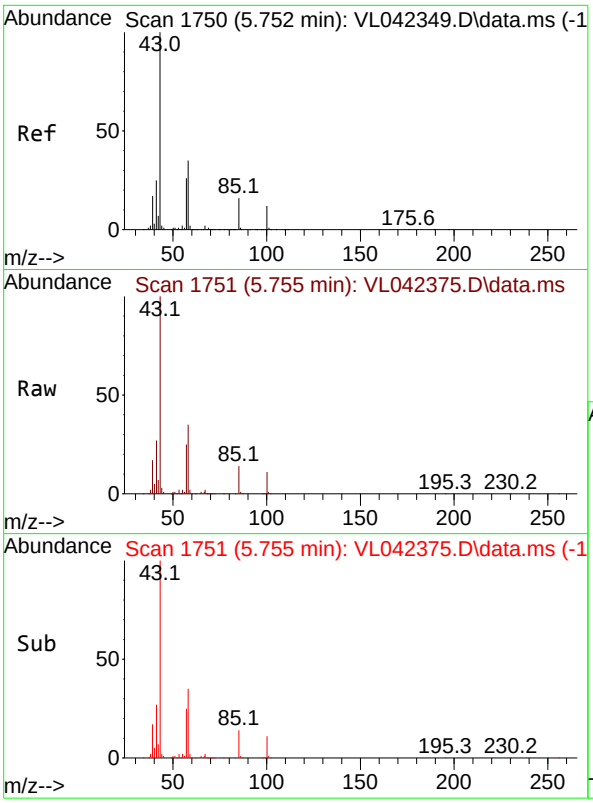


#39
1,2-Dichloropropane
Concen: 6.839 ppbv
RT: 3.952 min Scan# 1194
Delta R.T. -0.359 min
Lab File: VL042375.D
Acq: 18 Apr 2025 00:59

Tgt Ion: 63 Resp: 80069

Ion	Ratio	Lower	Upper
63	100		
41	0.6	64.2	96.2#
62	18.1	54.3	81.5#



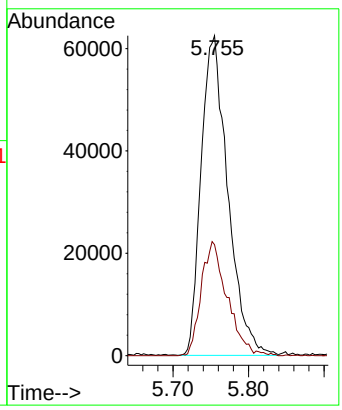


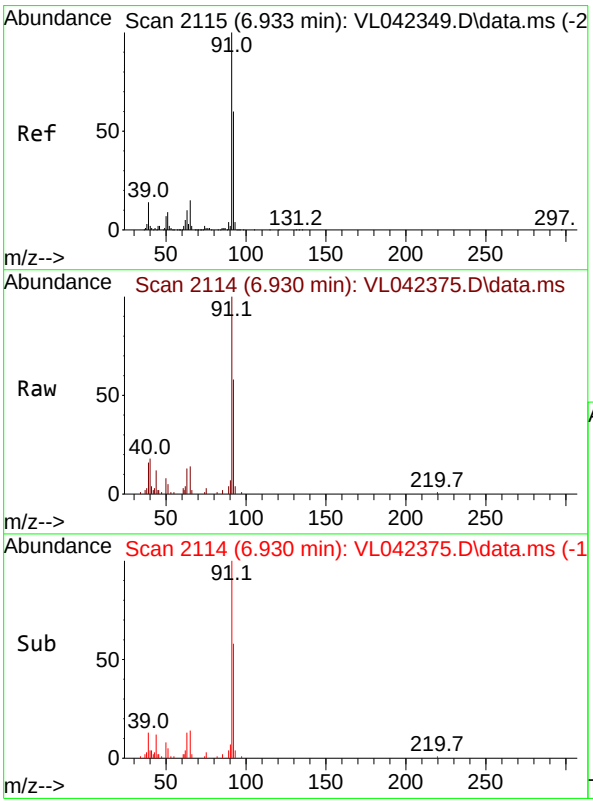
#50
4-Methyl-2-Pentanone
Concen: 4.003 ppbv
RT: 5.755 min Scan# 1
Delta R.T. 0.003 min
Lab File: VL042375.D
Acq: 18 Apr 2025 00:59

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-3-3252025DL

Tgt Ion: 43 Resp: 153256

Ion	Ratio	Lower	Upper
43	100		
58	34.9	28.6	43.0

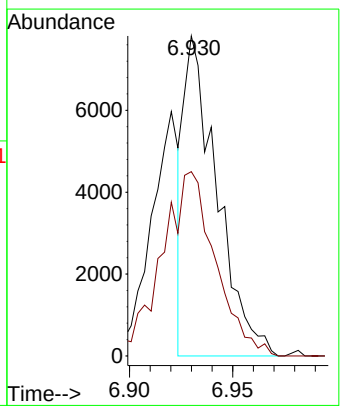


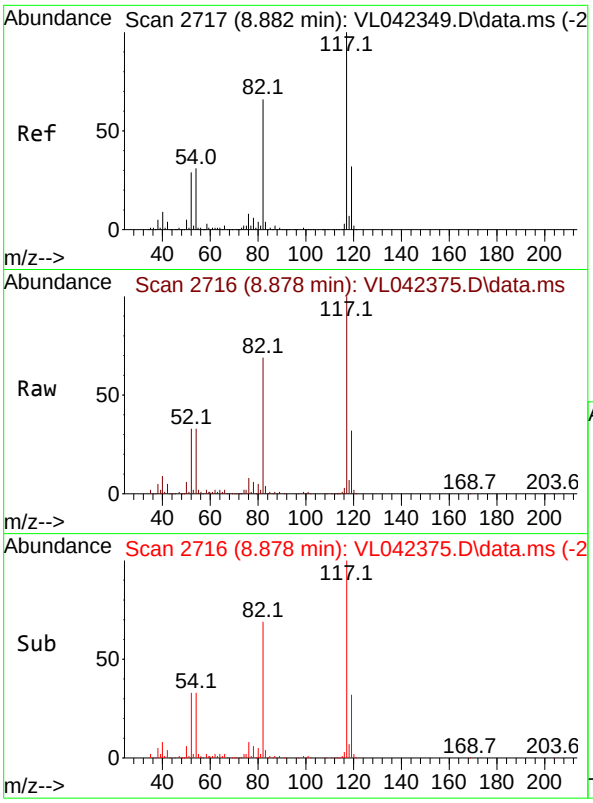


#53
Toluene
Concen: 0.232 ppbv
RT: 6.930 min Scan# 2114
Delta R.T. -0.003 min
Lab File: VL042375.D
Acq: 18 Apr 2025 00:59

Tgt Ion: 91 Resp: 8749

Ion	Ratio	Lower	Upper
91	100		
92	93.5	48.2	72.4#



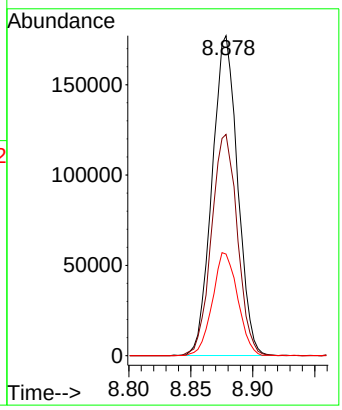


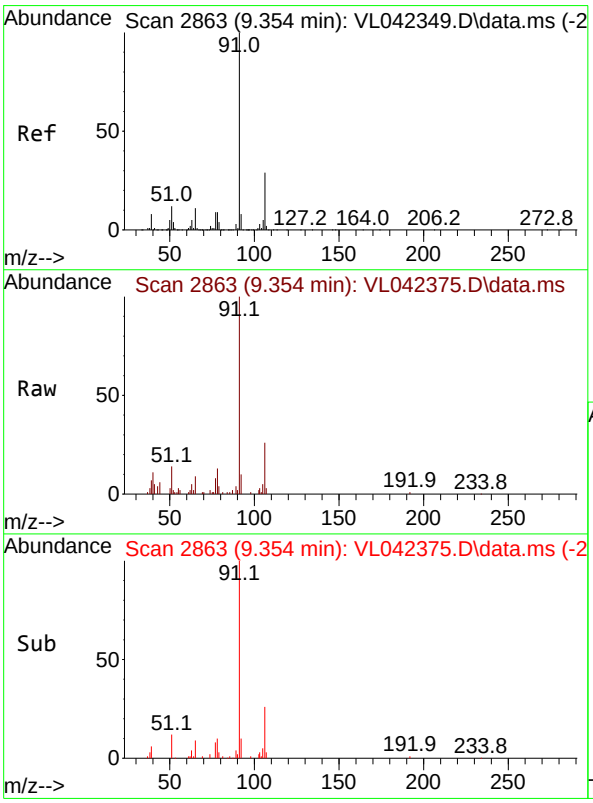
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.878 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL042375.D
Acq: 18 Apr 2025 00:59

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-3-3252025DL

Tgt Ion:117 Resp: 253844

Ion	Ratio	Lower	Upper
117	100		
82	70.3	57.8	86.6
119	32.0	25.2	37.8

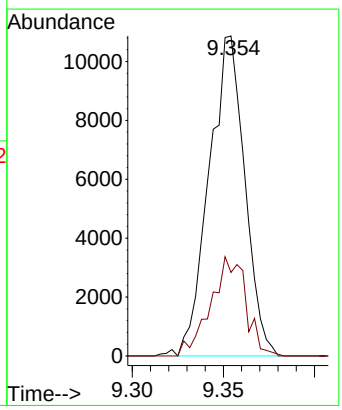


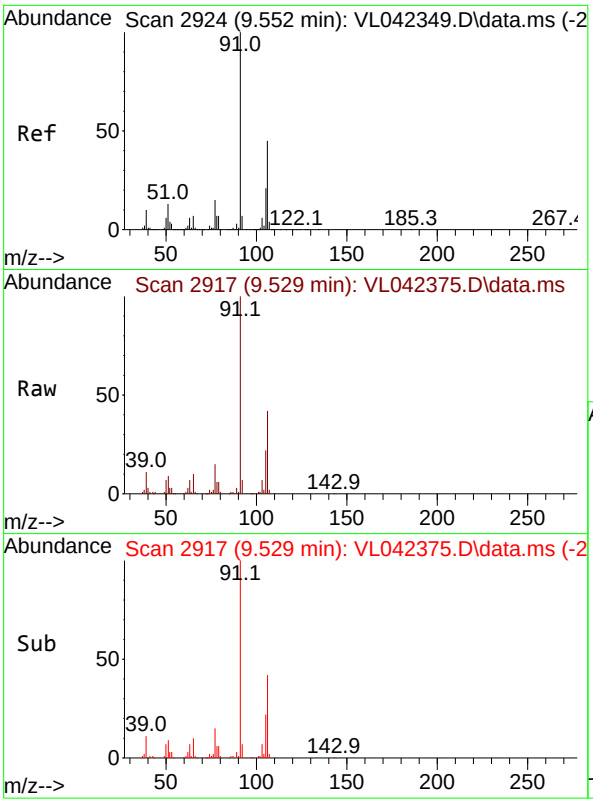


#58
Ethyl Benzene
Concen: 0.293 ppbv
RT: 9.354 min Scan# 2863
Delta R.T. 0.000 min
Lab File: VL042375.D
Acq: 18 Apr 2025 00:59

Tgt Ion: 91 Resp: 14757

Ion	Ratio	Lower	Upper
91	100		
106	26.1	23.0	34.4



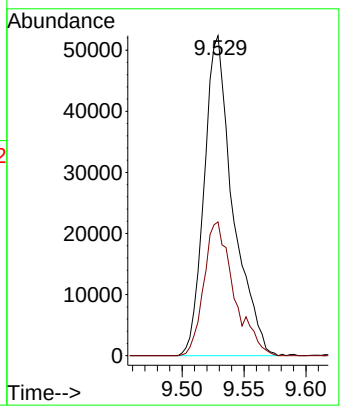


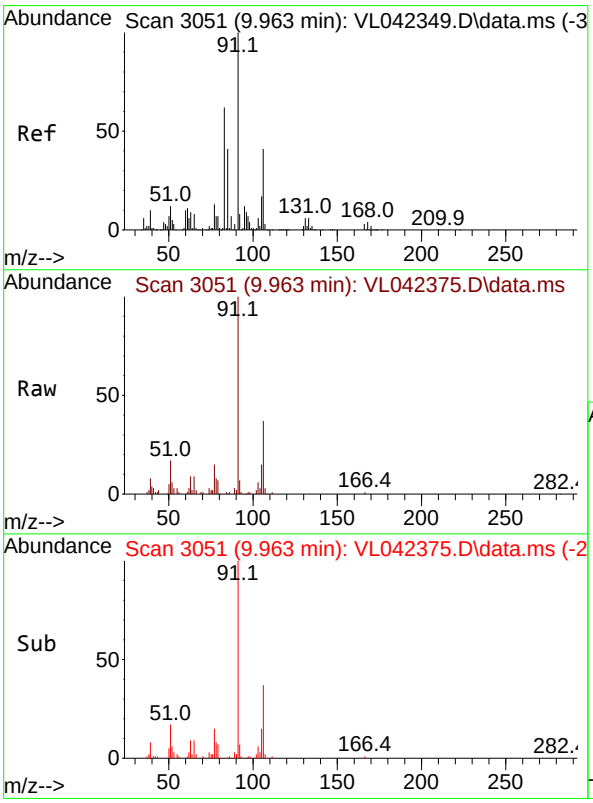
#59
m/p-Xylene
Concen: 2.090 ppbv
RT: 9.529 min Scan# 2
Delta R.T. -0.023 min
Lab File: VL042375.D
Acq: 18 Apr 2025 00:59

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-3-3252025DL

Tgt Ion: 91 Resp: 84682

Ion	Ratio	Lower	Upper
91	100		
106	43.6	35.4	53.2

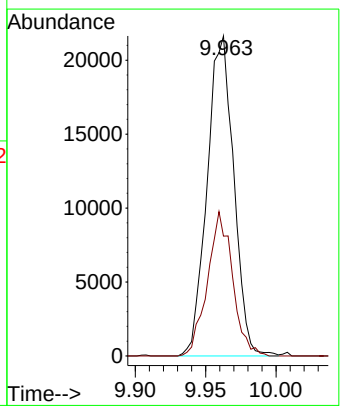


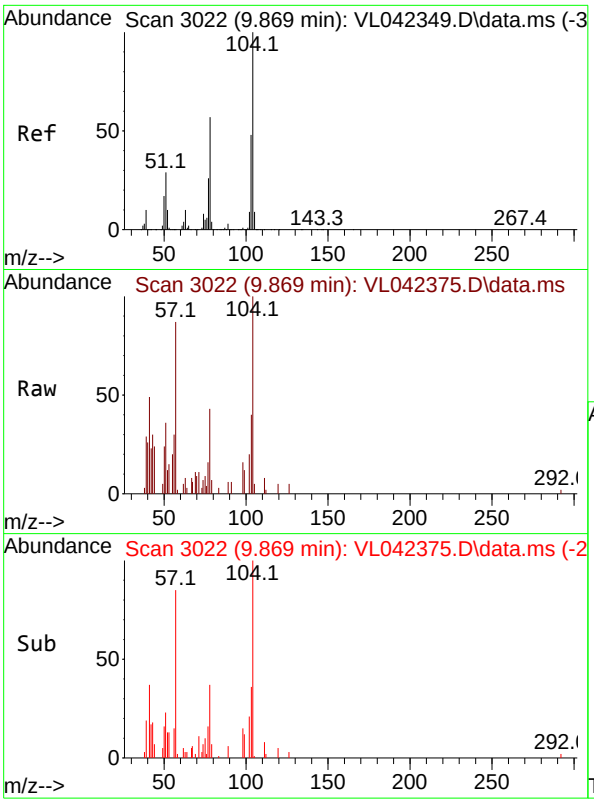


#60
o-Xylene
Concen: 0.699 ppbv
RT: 9.963 min Scan# 3051
Delta R.T. 0.000 min
Lab File: VL042375.D
Acq: 18 Apr 2025 00:59

Tgt Ion: 91 Resp: 28511

Ion	Ratio	Lower	Upper
91	100		
106	42.5	21.1	63.4



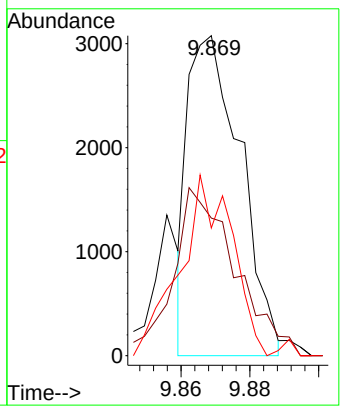


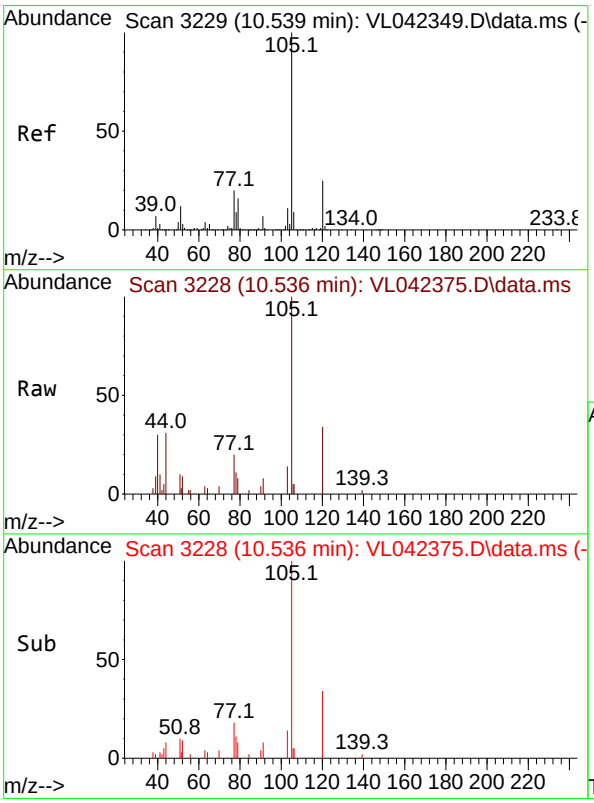
#61
Styrene
Concen: 0.168 ppbv
RT: 9.869 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042375.D
Acq: 18 Apr 2025 00:59

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-3-3252025DL

Tgt Ion:104 Resp: 3276

Ion	Ratio	Lower	Upper
104	100		
78	62.1	44.6	66.8
103	57.1	37.4	56.0#

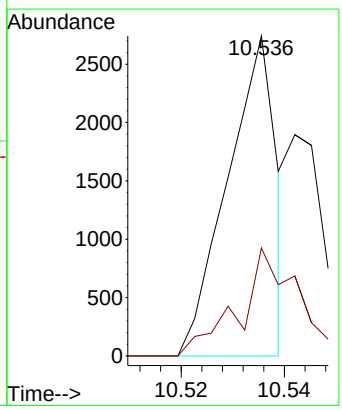


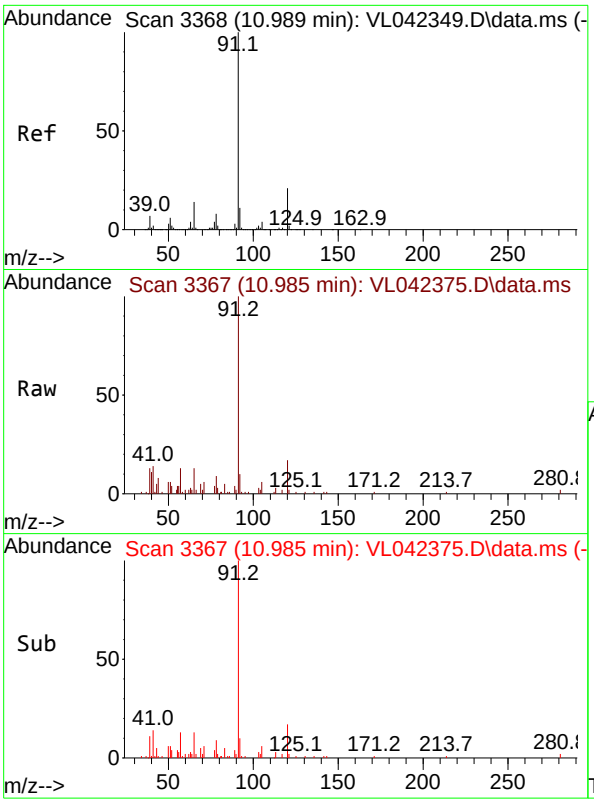


#62
Isopropylbenzene
Concen: 0.030 ppbv
RT: 10.536 min Scan# 3228
Delta R.T. -0.003 min
Lab File: VL042375.D
Acq: 18 Apr 2025 00:59

Tgt Ion:105 Resp: 1800

Ion	Ratio	Lower	Upper
105	100		
120	39.5	19.8	29.8#



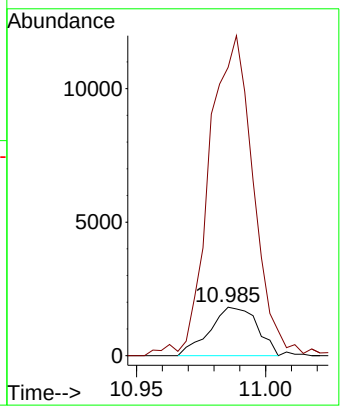


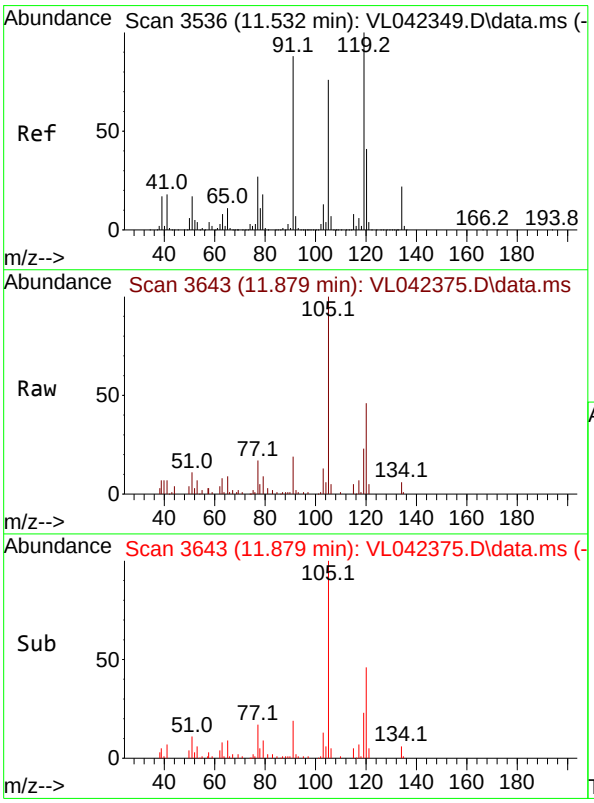
#64
n-propylbenzene
Concen: 0.154 ppbv
RT: 10.985 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042375.D
Acq: 18 Apr 2025 00:59

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-3-3252025DL

Tgt Ion:120 Resp: 2319

Ion	Ratio	Lower	Upper
120	100		
91	620.8	392.4	588.6#

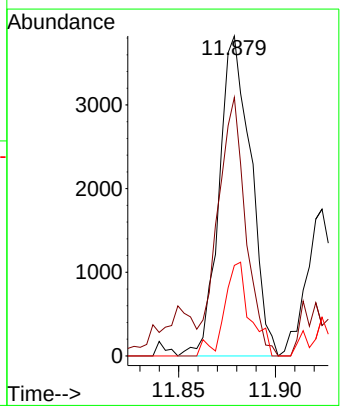


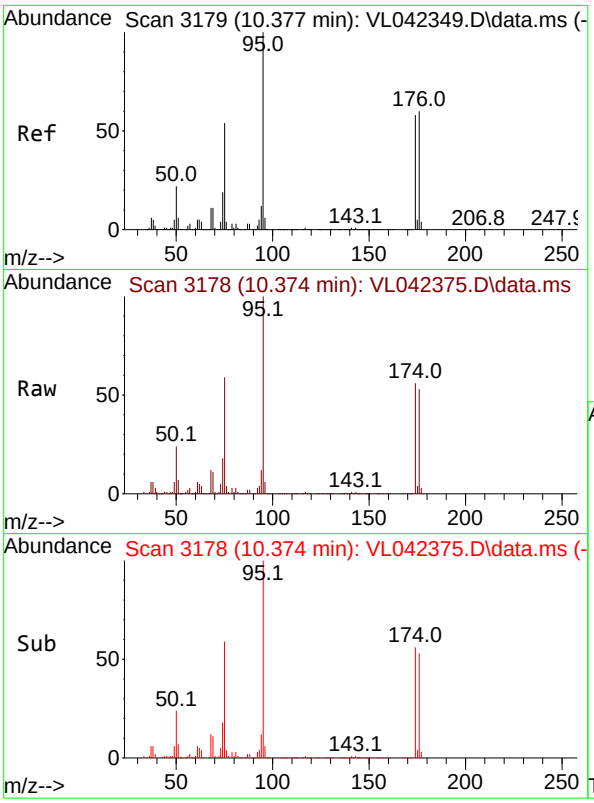


#65
tert-Butylbenzene
Concen: 0.079 ppbv
RT: 11.879 min Scan# 3643
Delta R.T. 0.346 min
Lab File: VL042375.D
Acq: 18 Apr 2025 00:59

Tgt Ion:119 Resp: 4345

Ion	Ratio	Lower	Upper
119	100		
91	89.8	74.6	111.8
134	23.6	18.8	28.2



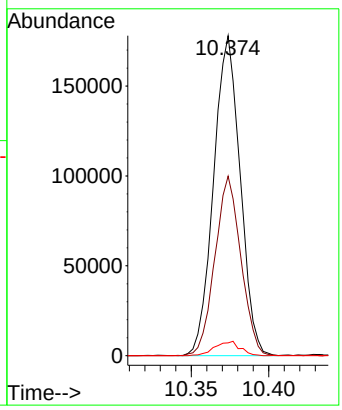


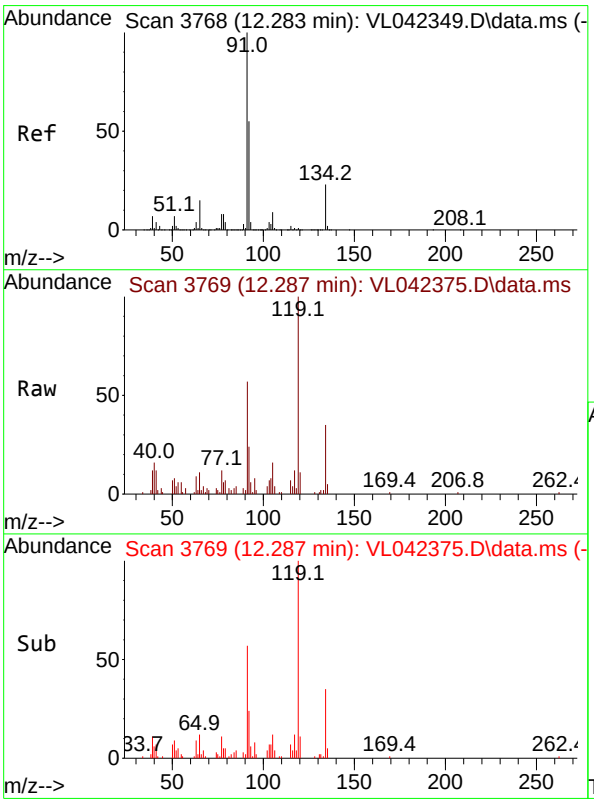
#68
1-Bromo-4-Fluorobenzene
Concen: 10.175 ppbv
RT: 10.374 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042375.D
Acq: 18 Apr 2025 00:59

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-3-3252025DL

Tgt Ion: 95 Resp: 212240

Ion	Ratio	Lower	Upper
95	100		
174	54.8	48.5	72.7
175	4.3	3.7	5.5

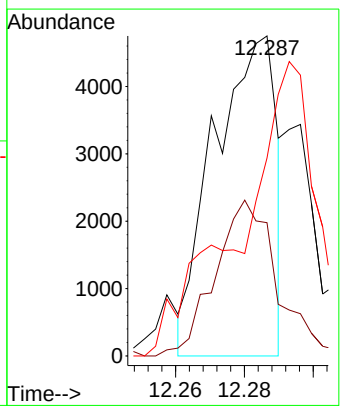


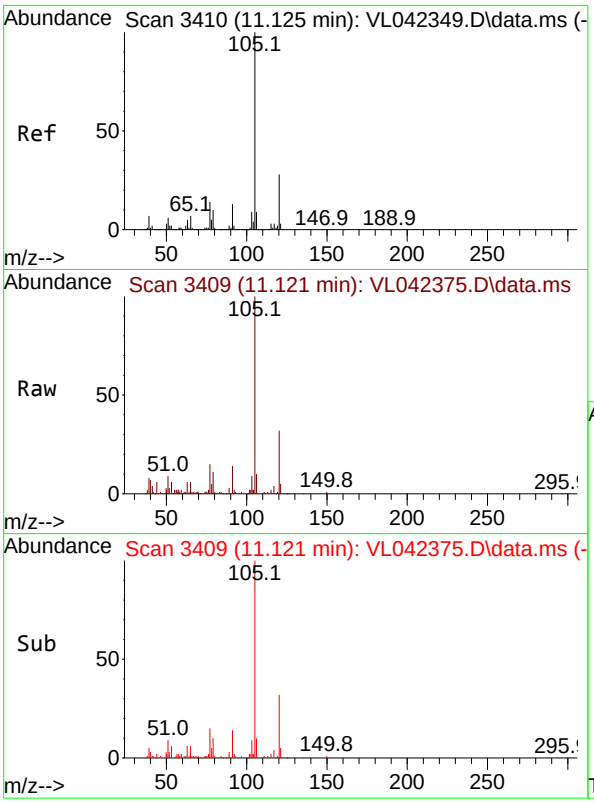


#70
n-Butylbenzene
Concen: 0.086 ppbv
RT: 12.287 min Scan# 3769
Delta R.T. 0.003 min
Lab File: VL042375.D
Acq: 18 Apr 2025 00:59

Tgt Ion: 91 Resp: 5965

Ion	Ratio	Lower	Upper
91	100		
92	49.4	44.2	66.4
134	0.0	18.2	27.4#



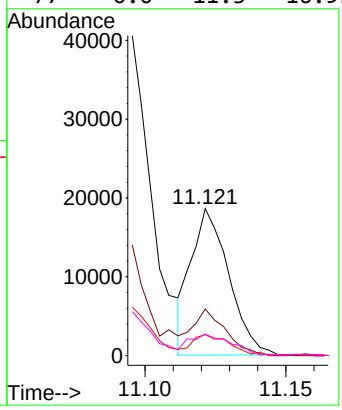


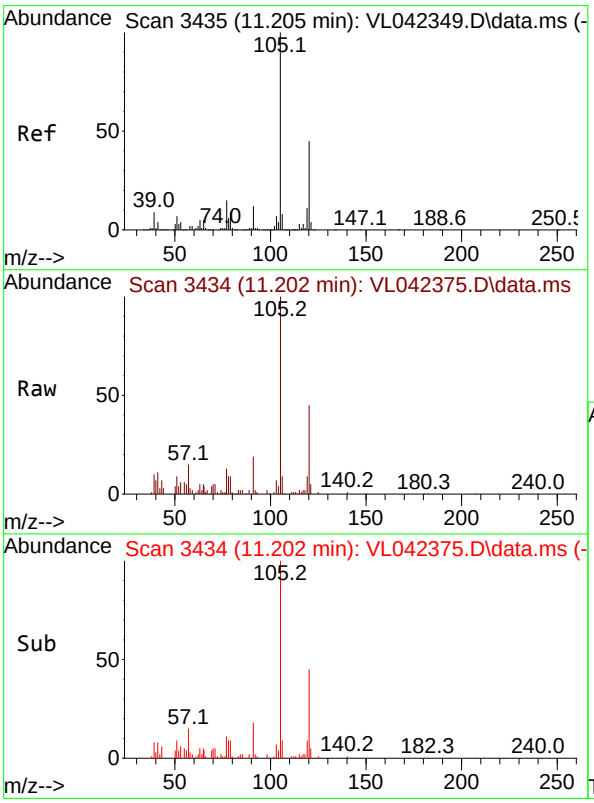
#72
4-Ethyltoluene
Concen: 0.347 ppbv
RT: 11.121 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042375.D
Acq: 18 Apr 2025 00:59

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-3-3252025DL

Tgt Ion:105 Resp: 17311

Ion	Ratio	Lower	Upper
105	100		
120	0.0	23.2	34.8#
91	0.0	10.4	15.6#
77	0.0	11.3	16.9#

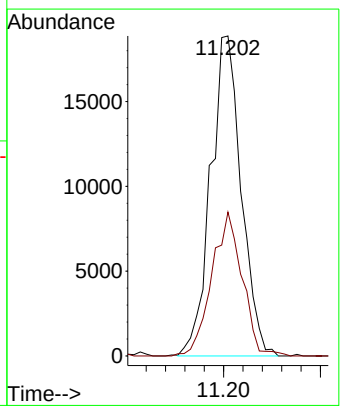


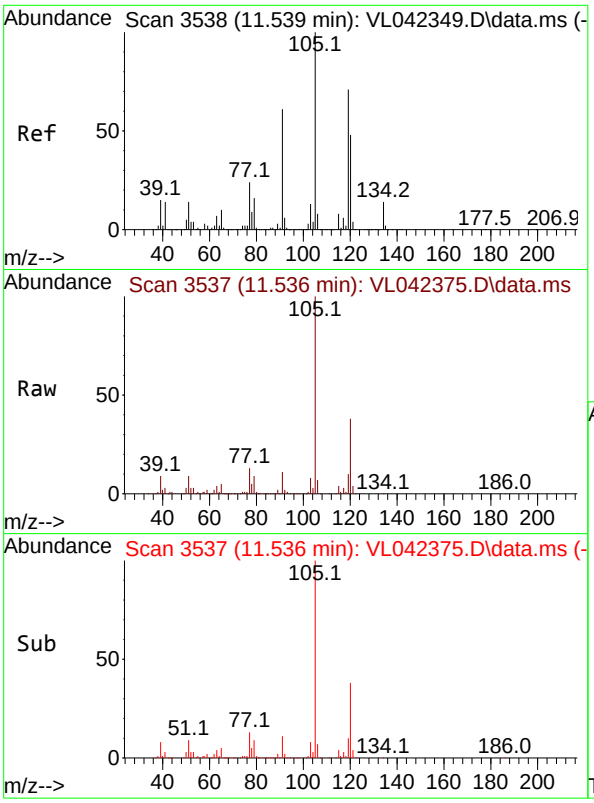


#73
1,3,5-Trimethylbenzene
Concen: 0.470 ppbv
RT: 11.202 min Scan# 3434
Delta R.T. -0.003 min
Lab File: VL042375.D
Acq: 18 Apr 2025 00:59

Tgt Ion:105 Resp: 20692

Ion	Ratio	Lower	Upper
105	100		
120	44.3	35.6	53.4



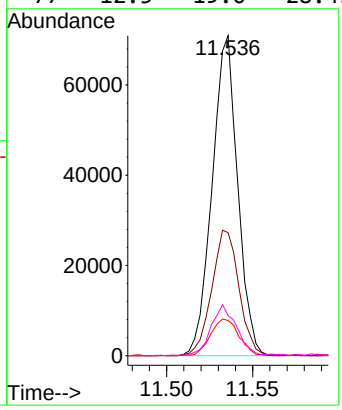


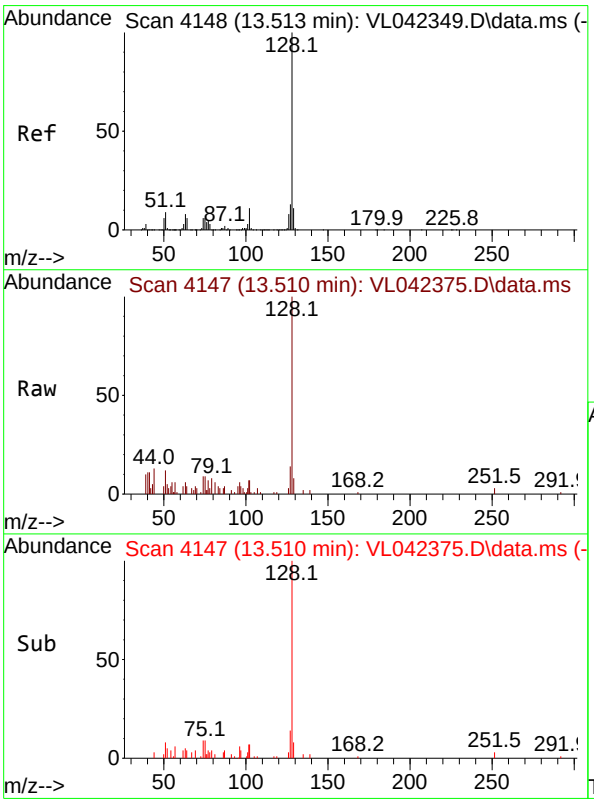
#74
1,2,4-Trimethylbenzene
Concen: 1.420 ppbv
RT: 11.536 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042375.D
Acq: 18 Apr 2025 00:59

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-3-3252025DL

Tgt Ion:105 Resp: 73024

Ion	Ratio	Lower	Upper
105	100		
120	38.5	38.1	57.1
91	10.9	48.8	73.2#
77	12.5	19.0	28.4#

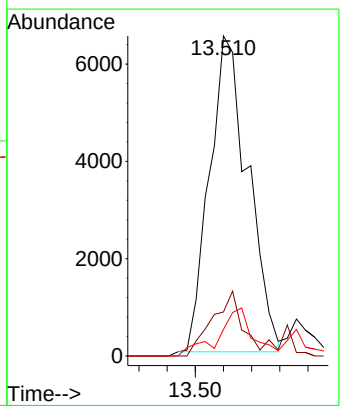


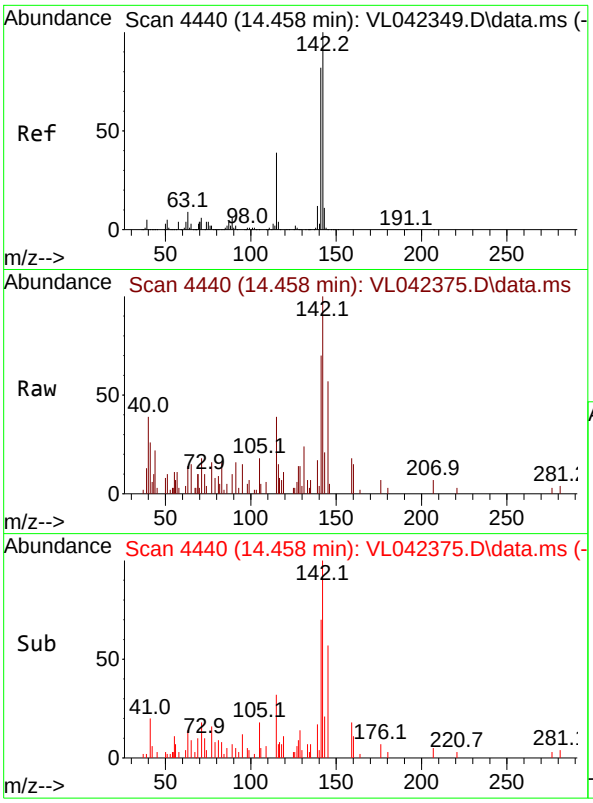


#79
Naphthalene
Concen: 0.100 ppbv
RT: 13.510 min Scan# 4147
Delta R.T. -0.003 min
Lab File: VL042375.D
Acq: 18 Apr 2025 00:59

Tgt Ion:128 Resp: 6160

Ion	Ratio	Lower	Upper
128	100		
127	14.0	10.6	15.8
129	8.4	8.6	12.8#





#80
Naphthalene,2-methyl-
Concen: 0.053 ppbv
RT: 14.458 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042375.D
Acq: 18 Apr 2025 00:59

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-3-3252025DL

Tgt Ion:142 Resp: 1863

Ion	Ratio	Lower	Upper
142	100		
141	90.2	66.8	100.2
115	136.2	33.4	50.2#

