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 : Q1726

ATTENTION : Bryan Maurer

Laboratory Certification ID # 20012

Table Of Contents for Q1726

1) VOLATILES DATA 2

2) Signature Page 4

3) Shipping Document 5

3.1) Chain Of Custody 6

3.2) ROC 13

3.3) Lab Certificate 16

3.4) Internal COC 17

3.5) Air sample Pressure And Dilution Log Book 18

3.6) Storage Location 19

4) Case Narrative 22

5) Qualifier Page 45

6) QA Checklist 46

7) Chronicle 47

8) Hit Summary 49

9) Air Conversion Table 64

9.1) MDL 106

10) QC Data Summary For TO-15 114

10.1) Deuterated Monitoring Compound Summary 115

10.2) LCS/LCSD Summary 116

10.3) Duplicate Sample Summary 120

10.4) Method Blank Summary 123

10.5) GS/MS Tune Summary 125

10.6) Internal Standard Area and RT Summary 128

11) Sample Data 131

11.1) IA-DUP-3-03312025 132

11.2) IA-DUP-3-03312025DL 173

11.3) IA-DUP-3-03312025DL2 188

11.4) IA-B2-6-03312025 201

11.5) IA-B2-6-03312025DL 244

11.6) IA-B2-6-03312025DL2 260

11.7) IA-B2-2-03312025 273

11.8) IA-B2-2-03312025DL 313

11.9) IA-B2-2-03312025DL2 327

11.10) IA-B2-5-03312025 336

11.11) IA-B2-5-03312025DL 377

11.12) IA-B2-5-03312025DL2 392
11.13) IA-B2-1-03312025 405
11.14) IA-B2-1-03312025DL 445
11.15) IA-B2-1-03312025DL2 459
11.16) IA-B2-3-03312025 469
11.17) IA-B2-3-03312025DL 509
11.18) IA-B2-3-03312025DL2 523
11.19) IA-B2-4-03312025 532
11.20) IA-B2-4-03312025DL 573
11.21) IA-B2-4-03312025DL2 587
12) Calibration Data Summary 598
12.1) Initial Calibration Data 599
12.1.1) VL041725 599
12.2) Continued Calibration Data 882
12.2.1) VL042383.D 882
13) QC Sample Data 930
13.1) Tune Raw Data 931
13.2) Method Blank Data 933
13.3) LCS Data 955
13.4) DUP data 1049
14) Manual Integration 1058
15) Analytical Runlogs 1070
16) Standatd Prep Logs 1076
17) Canister Data 1088
18) Not Reviewed Data 1173

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

Cover Page

Order ID : Q1726

Project ID : US EPA Riverside Industrial Park Superfund Site

Client : Woodard & Curran

Lab Sample Number	Client Sample Number
Q1726-01	IA-DUP-3-03312025
Q1726-02	IA-B2-6-03312025
Q1726-03	IA-B2-2-03312025
Q1726-04	IA-B2-5-03312025
Q1726-05	IA-B2-1-03312025
Q1726-06	IA-B2-3-03312025
Q1726-07	IA-B2-4-03312025

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 3:05 pm, Jul 07, 2025

Date: 7/3/2025

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. : Q1726

Client Contact Information	Bottle Order ID : **B2502051**	Courier :	____ of ____ COCs
Client ID : **WOOD06**	Project ID : **NYCHHC Environmental Services**	Sampler Name(s) : Alyssa Hutton	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**		
City : **Rye Brook**	Fax Number : **914-448-0147**		
State : **NY**	Site Details:	Batch Certified	
Zip Code : **10573**	Analysis Turnaround Time		
Country :	Standard : **10 business days** **OR**	Data Package Type :	
	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-WOD-3-3/31/2025	3/31/25 4/1/25	1606	1215	-30	-4	70	70	-30	-1.8	10206 ~~10271~~	10597 ~~10597~~	6 L	4.16	~~VE042145.D~~	X				X			

Temperature (Fahrenheit)	Ambient	Maximum	Minimum	
Start	68			
Stop	45			

Pressure (Inches of Hg)	Ambient	Maximum	Minimum	
Start	29.70			
Stop	29.88			

GC/MS Analyst Signature (TO-15)

** 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: 0.0 ppm

Sampling site (State): NJ

Quick Connector required : No

Canisters Shiped by:	Date/Time: 03/27/25	Canisters Received by:	Date/Time: 4/3/25 1005	**B2502051 - 34**
Samples Relinquished by:	Date/Time: 4/3/25 1005	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) : Clay Nichols
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**	Batch Certified
City : **Rye Brook**	Site Details:	
State : **NY**	Analysis Turnaround Time	
Zip Code : **10573**	Standard : **10 business days** **OR**	Data Package Type :
Country :	Rush (Specify): _____ **Days**	EDD Type :

_____ of _____ 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
1A-B2-6-3/31/2025	3/31/25 4/1/25	1610	1217	-27	-5	70	70	-30	-6.7	10696 ~~10774~~	10280 ~~10557~~	6 L	4.16	~~VL042143.D~~	X	X	

Temperature (Fahrenheit)	Ambient	Maximum	Minimum	
Start	68			
Stop	45			

Pressure (Inches of Hg)	Ambient	Maximum	Minimum	
Start	29.70			
Stop	29.88			

GC/MS Analyst Signature (TO-15)

** 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: 0.0 ppm

Sampling site (State): NJ

Quick Connector required : No

Canisters Shiped by: Sean	Date/Time: 03/27/25	Canisters Received by:	Date/Time: 4/3/25 1005	**B2502051 - 34**	
Samples Relinquished by:	Date/Time: 4/3/25 1005	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 : **B2503044**	Courier :	____ of ____ COCs
Client ID : **WOOD06** Project ID :	**US EPA Riverside Industrial Park Superfund S**	Sampler Name(s) : Cleyte D'Hfm	Analysis / Matrix
Customer Name : **Woodard & Curran**	Project Manager : **JILL TRIBLEY**	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-B2-2-3/31/2025	3/31/25 4/1/25	1241	1220	-30	-5	70	70	**-30**	-7.1	**10506**	**10410**	**6 L**	**4.16**	**VL042182.D**	X			X			

Temperature (Fahrenheit)	Ambient	Maximum	Minimum	
Start	68			
Stop	45			

GC/MS Analyst Signature (TO-15)

Pressure (Inches of Hg)	Ambient	Maximum	Minimum	
Start	29.70			
Stop	29.88			

** 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: 0.0 ppm

Sampling site (State): New Jersey

Quick Connector required : NO

Canisters Shiped by:	Date/Time: 03/31/25	Canisters Received by:	Date/Time: 4/1/25 1005
Samples Relinquished by:	Date/Time: 4/3/25 1005	Received by:	Date/Time:
Relinquished by:	Date/Time:	Received by:	Date/Time:

B2503044 - 9

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 :	_____ of _____ COCs
Client ID : **WOOD06**	Project ID : **NYCHHC Environmental Services**	Sampler Name(s) : Cleofe Matias	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-B2-S-3/31/2025	3/31-4/1/25	1606	1215	-30	-1	70	70	-30	-1.8	~~107-1~~ 10505	~~10587~~ 10054	6 L	4.16	~~VL042143.D~~	X				X			

Temperature (Fahrenheit)	Ambient	Maximum	Minimum	
Start	68			
Stop	45			

GC/MS Analyst Signature (TO-15)

Pressure (Inches of Hg)	Ambient	Maximum	Minimum	
Start	29.70			
Stop	29.88			

** 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: 0.1 ppm

Sampling site (State): NJ

Quick Connector required : No

Canisters Shiped by:	Date/Time: 03/24/25	Canisters Received by:	Date/Time: 4/1/25 1005		
Samples Relinquished by:	Date/Time: 4/3/25 1005	Received by:	Date/Time:		
Relinquished by:	Date/Time:	Received by:	Date/Time:		B2502051 - 34

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 : **B2503044**	Courier :	_____ of _____ COCs
Client ID : **WOOD06** Project ID :	**US EPA Riverside Industrial Park Superfund S**	Sampler Name(s) : Cleyta Freire	Analysis / Matrix
Customer Name : **Woodard & Curran**	Project Manager : **JILL TRIBLEY**	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		
SA-B2-1-3/31/2025	3/31/25 4/1/25	1246	1356	-30	-6	70	70	**-30**	-5.1	**10537**	**10295**	**6 L**	**4.16**	**VL042182.D**	X			X			

Temperature (Fahrenheit)	Ambient	Maximum	Minimum	
Start	68			
Stop	45			

Pressure (Inches of Hg)	Ambient	Maximum	Minimum	
Start	29.70			
Stop	29.88			

GC/MS Analyst Signature (TO-15)

** 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: 0.1 ppm

Sampling site (State): New Jersey

Quick Connector required : NO

Canisters Shiped by: Sean	Date/Time: 3/31/25	Canisters Received by:	Date/Time: 4.3.25 0805
Samples Relinquished by:	Date/Time: 4/3/25 1005	Received by:	Date/Time:
Relinquished by:	Date/Time:	Received by:	Date/Time:

B2503044 - 3

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 : **B2503044**	Courier :	____ of ____ COCs
Client ID : **WOOD06** Project ID :	**US EPA Riverside Industrial Park Superfund S**	Sampler Name(s) : Cliff Metro	Analysis / Matrix
Customer Name : **Woodard & Curran**	Project Manager : **JILL TRIBLEY**	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-B2-3-3/31/2025	3/31/25 4/1/25	1243	1537	-27.5	-9	70	70	-30	-6.7	10577	10590	6 L	4.16	VL042182.D	X				X			

Temperature (Fahrenheit)	Ambient	Maximum	Minimum	
Start	68			
Stop	45			

Pressure (Inches of Hg)	Ambient	Maximum	Minimum	
Start	29.70			
Stop	29.88			

GC/MS Analyst Signature (TO-15)

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

X 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: 0.0 ppm

Sampling site (State): New Jersey

Quick Connector required : NO

Canisters Shiped by: Sam	Date/Time: 3/31/25	Canisters Received by:	Date/Time: 4/1/25 1005	**B2503044 - 11**	
Samples Relinquished by:	Date/Time: 4/3/25 1005	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 : **B2503044**	Courier :	_____ of _____ COCs
Client ID : **WOOD06** Project ID :	**US EPA Riverside Industrial Park Superfund S**	Sampler Name(s) : Alexa Hetrick	Analysis / Matrix
Customer Name : **Woodard & Curran**	Project Manager : **JILL TRIBLEY**	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:	Individual 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
In-B2-4-3/31/2025	3/31/25 4/1/25	1245	1539	-30	-7	70	70	**-30**	-5.5	**10567**	**10448**	**6 L**	**4.16**	**VL042182.D**	X	X	

Temperature (Fahrenheit)	Ambient	Maximum	Minimum	
Start	65			
Stop	45			

GC/MS Analyst Signature (TO-15)

Pressure (Inches of Hg)	Ambient	Maximum	Minimum	
Start	29.70			
Stop	29.88			

** 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: 0.1 ppm

Sampling site (State): New Jersey

Quick Connector required : NO

Canisters Shiped by:	Date/Time: 3/31/25	Canisters Received by:	Date/Time: 4/1/25 1005	**B2503044 - 10**
Samples Relinquished by:	Date/Time: 4/3/25 1005	Received by:	Date/Time:	
Relinquished by:	Date/Time:	Received by:	Date/Time:	

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
Location: 284 Sheffield Street, Mountainside,NJ 7092
~~NASA~~:
Title: Sample Custodian
Field Sample Seal No.: Q1726
Date Broken: 4/3/2025
Military Time Seal Broken: 10:05:00
Case No.: US EPA Riverside Industria
Analytical Parameter/Fraction: TO-15

Sample No.	Aliquot/Extract No.	Sample No.	Aliquot/Extract No.
Q1726-01	IA-DUP-3-03312025		
Q1726-02	IA-B2-6-03312025		
Q1726-03	IA-B2-2-03312025		
Q1726-04	IA-B2-5-03312025		
Q1726-05	IA-B2-1-03312025		
Q1726-06	IA-B2-3-03312025		
Q1726-07	IA-B2-4-03312025		

Date	Time	Relinquished By	Received By	Purpose of Change of Custody
4/3/25		Signature	Signature	
		Printed Name Cassanova Peria	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*

CHEMTECH 284 Sheffield Street Mountainside, NJ 07092

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
04/03/25	Q1725-01	10153	11.8	-5.9				SM
	Q1725-02	10321	12.4	-4.7				SM
	Q1725-03	10296	10.4	-8.8				
	Q1725-04	10605	14.0	-1.4				
	Q1725-05	10279	11.8	-5.9				
	Q1725-06	10596	13.4	-2.7				
	Q1725-07	10303	11.2	-7.1				
	Q1725-08	10333	11.2	-7.1				
4/03/25	Q1726-01	10597	13.8	-1.8				
	Q1726-02	10280	11.4	-6.7				
	Q1726-03	10410	11.2	-7.1				
	Q1726-04	10054	13.8	-1.8				
	Q1726-05	10295	12.2	-5.1				
	Q1726-06	10590	11.4	-6.7				
	Q1726-07	10448	12.0	-5.5				
04/03/25	~~Q1730-01~~ Q1728-01	10130	10.0	-9.6				SM
	Q1728-02	10149	11.2	-7.1				
	Q1728-03	10458	10.6	-8.4				
	Q1728-04	10663	~~12~~ 11.3 SM	-7.1				
	Q1728-05	10662	10.6	-8.4				
	Q1728-06	10119	10.4	-8.8				

CHEMTECH
284 Sheffield Street, Mountainside, NJ 07092 P: (908) 789-8900 F: (908)789-8922
Client Sample ID #: IA-B2-2-3/31/2025
Client Name: W+C
Project Name: Riverside
Date: 3/31 - Time: 1220
Analysis: TO-15
Comments:
CHEMTECH'S S
Date Received:
Storage Location: Air Lab
Sample: Q1726-03
Cust #: IA-B2-2-03312025
1040
B2502044

CHEMTECH
284 Sheffield Street, Mountainside, NJ 07092 P: (908) 789-8900 F: (908)789-8922
Client Sample ID #: IA-B2-6-3/31/2025
Client Name: W+C
Project Name: Riverside
Date: 3/31 - Time: 1211
Analysis: TO-15
Storage Location: Air Lab
Sample: Q1726-02
Cust #: IA-B2-6-03312025
B2502045

CHEMTECH
284 Sheffield Street, Mountainside, NJ 07092 P: (908) 789-8900 F: (908)789-8922
Client Sample ID #: IA-DUP-3-3/31/2025
Client Name: W+C
Project Name: Riverside
Date: 3/31 - Time: 1215
Analysis: TO-15
Storage Location: Air Lab
Sample: Q1726-01
Cust #: IA-DUP-3-03312025
B2502043

CHEMTECH

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

Client Sample ID #: IA-B2-3-3/31/2025

Client Name : W+C

Project Name: Riverside

Date: 3/31 - 4/1/25 Time: 1522

Analysis: TO-15

Comments: W

Storage Location: Air Lab

Sample: Q1726-06

Cust #: IA-B2-3-03312025

CHEMTECH'S S

Date Received:

sal:

B2503044

1522

CHEMTECH

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

Client Sample ID #: IA-B2-1-3/31/2025

Client Name : W+C

Project Name: Riverside

Date: 3/31 - 4/1 Time: 1356

Analysis: TO-15

Comments:

Storage Location: Air Lab

Sample: Q1726-05

Cust #: IA-B2-1-03312025

CHEMTECH'S

Date Received:

posal:

B2503044

1356

CHEMTECH

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

Client Sample ID #: IA-B2-5-3/31/2025

Client Name : W+C

Project Name: Riverside

Date: 3/31 - 4/1 Time: 1845

Analysis: TO-15

Comments:

Storage Location: Air Lab

Sample: Q1726-04

Cust #: IA-B2-5-03312025

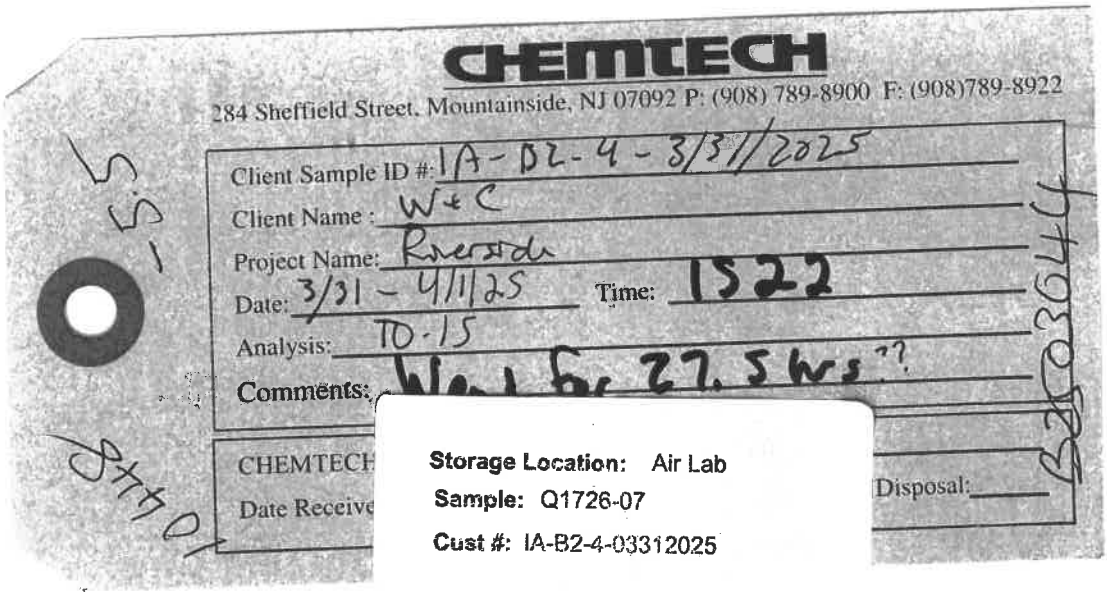
CHEMTECH'S

Date Received:

posal:

B2503044

1845


CHEMTECH
284 Sheffield Street, Mountainside, NJ 07092 P: (908) 789-8900 F: (908)789-8922
Client Sample ID #: IA-B2-4-3/31/2025
Client Name: W+C
Project Name: Riverside
Date: 3/31 - 4/1/25
Time: 1522
Analysis: TO-15
Comments: Wed for 27.5 hrs??
CHEMTECH
Date Receive
Disposal:
Storage Location: Air Lab
Sample: Q1726-07
Cust #: IA-B2-4-03312025

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 # Q1726
Test Name: TO-15

A. Number of Samples and Date of Receipt:
7 Air samples were received on 04/03/2025.

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 column 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 7100A 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 {Q1726-06DL2DUP} with File ID: VL042393.D met criteria except for Ethanol[27.5%] due to difference in results of Original and DUP.

The Blank Spike for {VL0417ABS01} with File ID: VL042358.D met requirements for all samples except for Ethanol[32%] this compound did not meet the NJDKQP criteria and the in-house criteria.

The Blank Spike for {VL0418ABS01} with File ID: VL042385.D met requirements for all samples except for Ethanol[23%], Heptane[68%], Methyl methacrylate[69%] and Tetrahydrofuran[69%],these compounds did not meet the NJDKQP criteria and the in-house criteria also it is failing low but only dilution samples analyzed under this Blank spike therefore no corrective action taken.

The Blank analysis did not indicate the presence of lab contamination.

The Initial Calibration with dated 04/17/2025 with L Instrument met the requirements except for Ethanol.

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

The Continuous Calibration File ID VL042383.D met the requirements except for Ethanol, 1,4-Dioxane,4-Methyl-2-Pentanone and Tetrahydrofuran are failing low but only dilution samples analyzed under this Continuous Calibration therefore no corrective action taken.
The Tuning criteria met requirements.

Samples IA-DUP-3-03312025, IA-DUP-3-03312025DL, IA-B2-6-03312025, IA-B2-6-03312025DL, IA-B2-2-03312025, IA-B2-2-03312025DL, IA-B2-5-03312025, IA-B2-5-03312025DL, IA-B2-1-03312025, IA-B2-1-03312025DL, IA-B2-3-03312025, IA-B2-3-03312025DL, IA-B2-4-03312025 and IA-B2-4-03312025DL were diluted due to high concentrations.

E. Additional Comments:
This data Package has been revised to include Parameter Bromoethene, Ethanol and isopropyl alcohol.
This data Package has been revised to include DUP raw data.
The not QT review data is reported in the Miscellaneous.
The Form 6 is not included in the data package because the Initial Calibration was performed using 7 points.

The Sample # IA-DUP-3-03312025DL, IA-DUP-3-03312025DL2, IA-B2-6-03312025DL, IA-B2-2-03312025DL, IA-B2-1-03312025DL2 and IA-B2-4-03312025DL2 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	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 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

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

							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 4:19:12 PM	MMDadoda	4/18/2025 10:45:17 PM	Peak Integrated 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 Softwar

							e 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	MMDadoda	4/18/2025 10:45:1	Peak Integrated by

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

				PM		5 PM	Software 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	MMDadoda	4/18/2025	Peak Integrat

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

				4:20:33 PM		10:45:07 PM	ed 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
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.	VL04235	Tetrahydrofuran	SAM	4/18/20	MMDado	4/18/20	Peak

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

5	2.D			25 4:20:33 PM	da	25 10:45:07 PM	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 4:20:37 PM	MMDadoda	4/18/2025 10:45:04 PM	Peak Integrated 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

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

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

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

Q1726-01	VL042366.D	1,2-Dichloroethane	SAM	4/18/2025 4:19:35 PM	MMDadoda	4/18/2025 10:44:26 PM	Peak Integrated by Software incorrectly
Q1726-01	VL042366.D	Carbon Tetrachloride	SAM	4/18/2025 4:19:35 PM	MMDadoda	4/18/2025 10:44:26 PM	Peak Integrated by Software incorrectly
Q1726-01	VL042366.D	Chlorodifluoromethane	SAM	4/18/2025 4:19:35 PM	MMDadoda	4/18/2025 10:44:26 PM	Peak Integrated by Software incorrectly
Q1726-01	VL042366.D	n-Butylbenzene	SAM	4/18/2025 4:19:35 PM	MMDadoda	4/18/2025 10:44:26 PM	Peak Integrated by Software incorrectly
Q1726-01	VL042366.D	Naphthalene,2-methyl-	SAM	4/18/2025 4:19:35 PM	MMDadoda	4/18/2025 10:44:26 PM	Peak Integrated by Software incorrectly
Q1726-01	VL042366.D	Propene	SAM	4/18/2025 4:19:35 PM	MMDadoda	4/18/2025 10:44:26 PM	Peak Integrated by Software incorrectly
Q1726-01	VL042366.D	Tetrachloroethene	SAM	4/18/2025 4:19:35 PM	MMDadoda	4/18/2025 10:44:26 PM	Peak Integrated by Software incorrectly

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

Q1726-02	VL042367.D	1,1,1-Trichloroethane	SAM	4/18/2025 4:20:08 PM	MMDadoda	4/18/2025 10:45:51 PM	Peak Integrated by Software incorrectly
Q1726-02	VL042367.D	Carbon Tetrachloride	SAM	4/18/2025 4:20:08 PM	MMDadoda	4/18/2025 10:45:51 PM	Peak Integrated by Software incorrectly
Q1726-02	VL042367.D	Chlorodifluoromethane	SAM	4/18/2025 4:20:08 PM	MMDadoda	4/18/2025 10:45:51 PM	Peak Integrated by Software incorrectly
Q1726-02	VL042367.D	Chloroform	SAM	4/18/2025 4:20:08 PM	MMDadoda	4/18/2025 10:45:51 PM	Peak Integrated by Software incorrectly
Q1726-02	VL042367.D	Cyclohexane	SAM	4/18/2025 4:20:08 PM	MMDadoda	4/18/2025 10:45:51 PM	Peak Integrated by Software incorrectly
Q1726-02	VL042367.D	Propene	SAM	4/18/2025 4:20:08 PM	MMDadoda	4/18/2025 10:45:51 PM	Peak Integrated by Software incorrectly
Q1726-02	VL042367.D	Tetrachloroethene	SAM	4/18/2025 4:20:08 PM	MMDadoda	4/18/2025 10:45:51 PM	Peak Integrated by Software incorrectly

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

Q1726-03	VL042368.D	1,1,1-Trichloroethane	SAM	4/18/2025 4:21:50 PM	MMDadoda	4/18/2025 10:44:24 PM	Peak Integrated by Software incorrectly
Q1726-03	VL042368.D	Carbon Tetrachloride	SAM	4/18/2025 4:21:50 PM	MMDadoda	4/18/2025 10:44:24 PM	Peak Integrated by Software incorrectly
Q1726-03	VL042368.D	Chlorodifluoromethane	SAM	4/18/2025 4:21:50 PM	MMDadoda	4/18/2025 10:44:24 PM	Peak Integrated by Software incorrectly
Q1726-03	VL042368.D	Chloroform	SAM	4/18/2025 4:21:50 PM	MMDadoda	4/18/2025 10:44:24 PM	Peak Integrated by Software incorrectly
Q1726-03	VL042368.D	n-Butylbenzene	SAM	4/18/2025 4:21:50 PM	MMDadoda	4/18/2025 10:44:24 PM	Peak Integrated by Software incorrectly
Q1726-03	VL042368.D	Naphthalene,2-methyl-	SAM	4/18/2025 4:21:50 PM	MMDadoda	4/18/2025 10:44:24 PM	Peak Integrated by Software incorrectly
Q1726-03	VL042368.D	Propene	SAM	4/18/2025 4:21:50 PM	MMDadoda	4/18/2025 10:44:24 PM	Peak Integrated by Software incorrectly

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

Q1726-03	VL042368.D	tert-Butyl alcohol	SAM	4/18/2025 4:21:50 PM	MMDadoda	4/18/2025 10:44:24 PM	Peak Integrated by Software incorrectly
Q1726-03	VL042368.D	Tetrachloroethene	SAM	4/18/2025 4:21:50 PM	MMDadoda	4/18/2025 10:44:24 PM	Peak Integrated by Software incorrectly
Q1726-04	VL042369.D	1,1,1-Trichloroethane	SAM	4/18/2025 4:21:55 PM	MMDadoda	4/18/2025 10:44:18 PM	Peak Integrated by Software incorrectly
Q1726-04	VL042369.D	Carbon Tetrachloride	SAM	4/18/2025 4:21:55 PM	MMDadoda	4/18/2025 10:44:18 PM	Peak Integrated by Software incorrectly
Q1726-04	VL042369.D	Chlorodifluoromethane	SAM	4/18/2025 4:21:55 PM	MMDadoda	4/18/2025 10:44:18 PM	Peak Integrated by Software incorrectly
Q1726-04	VL042369.D	Propene	SAM	4/18/2025 4:21:55 PM	MMDadoda	4/18/2025 10:44:18 PM	Peak Integrated by Software incorrectly
Q1726-04	VL042369.D	tert-Butyl alcohol	SAM	4/18/2025 4:21:55 PM	MMDadoda	4/18/2025 10:44:18 PM	Peak Integrated by Software incorrectly

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

Q1726-04	VL042369.D	Tetrachloroethene	SAM	4/18/2025 4:21:55 PM	MMDadoda	4/18/2025 10:44:18 PM	Peak Integrated by Software incorrectly
Q1726-05	VL042370.D	1,1,1-Trichloroethane	SAM	4/18/2025 4:21:04 PM	MMDadoda	4/18/2025 10:44:08 PM	Peak Integrated by Software incorrectly
Q1726-05	VL042370.D	Chlorodifluoromethane	SAM	4/18/2025 4:21:04 PM	MMDadoda	4/18/2025 10:44:08 PM	Peak Integrated by Software incorrectly
Q1726-05	VL042370.D	Cyclohexane	SAM	4/18/2025 4:21:04 PM	MMDadoda	4/18/2025 10:44:08 PM	Peak Integrated by Software incorrectly
Q1726-05	VL042370.D	Propene	SAM	4/18/2025 4:21:04 PM	MMDadoda	4/18/2025 10:44:08 PM	Peak Integrated by Software incorrectly
Q1726-05	VL042370.D	tert-Butyl alcohol	SAM	4/18/2025 4:21:04 PM	MMDadoda	4/18/2025 10:44:08 PM	Peak Integrated by Software incorrectly
Q1726-05	VL042370.D	Tetrachloroethene	SAM	4/18/2025 4:21:04 PM	MMDadoda	4/18/2025 10:44:08 PM	Peak Integrated by Software incorrectly

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

Q1726-06	VL042371.D	Chlorodifluoromethane	SAM	4/18/2025 4:20:03 PM	MMDadoda	4/18/2025 10:44:05 PM	Peak Integrated by Software incorrectly
Q1726-06	VL042371.D	n-Butylbenzene	SAM	4/18/2025 4:20:03 PM	MMDadoda	4/18/2025 10:44:05 PM	Peak Integrated by Software incorrectly
Q1726-06	VL042371.D	Propene	SAM	4/18/2025 4:20:03 PM	MMDadoda	4/18/2025 10:44:05 PM	Peak Integrated by Software incorrectly
Q1726-06	VL042371.D	tert-Butyl alcohol	SAM	4/18/2025 4:20:03 PM	MMDadoda	4/18/2025 10:44:05 PM	Peak Integrated by Software incorrectly
Q1726-06	VL042371.D	Tetrachloroethene	SAM	4/18/2025 4:20:03 PM	MMDadoda	4/18/2025 10:44:05 PM	Peak Integrated by Software incorrectly
Q1726-06	VL042371.D	Trichloroethene	SAM	4/18/2025 4:20:03 PM	MMDadoda	4/18/2025 10:44:05 PM	Peak Integrated by Software incorrectly
Q1726-07	VL042372.D	4-Methyl-2-Pentanone	SAM	4/18/2025 4:20:49 PM	MMDadoda	4/18/2025 10:44:02 PM	Peak Integrated by Software incorrectly

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

Q1726-07	VL042372.D	Carbon Tetrachloride	SAM	4/18/2025 4:20:49 PM	MMDadoda	4/18/2025 10:44:02 PM	Peak Integrated by Software incorrectly
Q1726-07	VL042372.D	Chlorodifluoromethane	SAM	4/18/2025 4:20:49 PM	MMDadoda	4/18/2025 10:44:02 PM	Peak Integrated by Software incorrectly
Q1726-07	VL042372.D	Chloroform	SAM	4/18/2025 4:20:49 PM	MMDadoda	4/18/2025 10:44:02 PM	Peak Integrated by Software incorrectly
Q1726-07	VL042372.D	n-Butylbenzene	SAM	4/18/2025 4:20:49 PM	MMDadoda	4/18/2025 10:44:02 PM	Peak Integrated by Software incorrectly
Q1726-07	VL042372.D	Propene	SAM	4/18/2025 4:20:49 PM	MMDadoda	4/18/2025 10:44:02 PM	Peak Integrated by Software incorrectly
Q1726-07	VL042372.D	tert-Butyl alcohol	SAM	4/18/2025 4:20:49 PM	MMDadoda	4/18/2025 10:44:02 PM	Peak Integrated by Software incorrectly
Q1726-07	VL042372.D	Tetrachloroethene	SAM	4/18/2025 4:20:49 PM	MMDadoda	4/18/2025 10:44:02 PM	Peak Integrated by Software incorrectly

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

Q1726-07DL	VL042373.D	2,2,4-Trimethylpentane	SAM	4/18/2025 4:22:12 PM	MMDadoda	4/18/2025 10:43:58 PM	Peak Integrated by Software incorrectly
Q1726-07DL	VL042373.D	Heptane	SAM	4/18/2025 4:22:12 PM	MMDadoda	4/18/2025 10:43:58 PM	Peak Integrated by Software incorrectly
Q1726-07DL	VL042373.D	m/p-Xylene	SAM	4/18/2025 4:22:12 PM	MMDadoda	4/18/2025 10:43:58 PM	Peak Integrated by Software incorrectly
Q1726-07DL	VL042373.D	Propene	SAM	4/18/2025 4:22:12 PM	MMDadoda	4/18/2025 10:43:58 PM	Peak Integrated by Software incorrectly
Q1726-01DL	VL042376.D	Benzene	SAM	4/18/2025 4:19:57 PM	MMDadoda	4/18/2025 10:43:47 PM	Peak Integrated by Software incorrectly
Q1726-01DL	VL042376.D	Cyclohexane	SAM	4/18/2025 4:19:57 PM	MMDadoda	4/18/2025 10:43:47 PM	Peak Integrated by Software incorrectly
Q1726-01DL	VL042376.D	Propene	SAM	4/18/2025 4:19:57 PM	MMDadoda	4/18/2025 10:43:47 PM	Peak Integrated by Software incorrectly

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

Q1726-02DL	VL042377.D	Benzene	SAM	4/18/2025 4:21:15 PM	MMDadoda	4/18/2025 10:43:43 PM	Peak Integrated by Software incorrectly
Q1726-02DL	VL042377.D	Cyclohexane	SAM	4/18/2025 4:21:15 PM	MMDadoda	4/18/2025 10:43:43 PM	Peak Integrated by Software incorrectly
Q1726-02DL	VL042377.D	Heptane	SAM	4/18/2025 4:21:15 PM	MMDadoda	4/18/2025 10:43:43 PM	Peak Integrated by Software incorrectly
Q1726-02DL	VL042377.D	m/p-Xylene	SAM	4/18/2025 4:21:15 PM	MMDadoda	4/18/2025 10:43:43 PM	Peak Integrated by Software incorrectly
Q1726-02DL	VL042377.D	n-propylbenzene	SAM	4/18/2025 4:21:15 PM	MMDadoda	4/18/2025 10:43:43 PM	Peak Integrated by Software incorrectly
Q1726-02DL	VL042377.D	Propene	SAM	4/18/2025 4:21:15 PM	MMDadoda	4/18/2025 10:43:43 PM	Peak Integrated by Software incorrectly
Q1726-03DL	VL042378.D	1,3,5-Trimethylbenzene	SAM	4/18/2025 4:21:23 PM	MMDadoda	4/18/2025 10:43:37 PM	Peak Integrated by Software incorrectly

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

Q1726-03DL	VL042378.D	2,2,4-Trimethylpentane	SAM	4/18/2025 4:21:23 PM	MMDadoda	4/18/2025 10:43:37 PM	Peak Integrated by Software incorrectly
Q1726-03DL	VL042378.D	Heptane	SAM	4/18/2025 4:21:23 PM	MMDadoda	4/18/2025 10:43:37 PM	Peak Integrated by Software incorrectly
Q1726-03DL	VL042378.D	m/p-Xylene	SAM	4/18/2025 4:21:23 PM	MMDadoda	4/18/2025 10:43:37 PM	Peak Integrated by Software incorrectly
Q1726-03DL	VL042378.D	Propene	SAM	4/18/2025 4:21:23 PM	MMDadoda	4/18/2025 10:43:37 PM	Peak Integrated by Software incorrectly
Q1726-04DL	VL042379.D	2,2,4-Trimethylpentane	SAM	4/18/2025 4:19:52 PM	MMDadoda	4/18/2025 10:43:34 PM	Peak Integrated by Software incorrectly
Q1726-04DL	VL042379.D	Benzene	SAM	4/18/2025 4:19:52 PM	MMDadoda	4/18/2025 10:43:34 PM	Peak Integrated by Software incorrectly
Q1726-04DL	VL042379.D	Heptane	SAM	4/18/2025 4:19:52 PM	MMDadoda	4/18/2025 10:43:34 PM	Peak Integrated by Software incorrectly

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

Q1726-04DL	VL042379.D	n-propylbenzene	SAM	4/18/2025 4:19:52 PM	MMDadoda	4/18/2025 10:43:34 PM	Peak Integrated by Software incorrectly
Q1726-05DL	VL042380.D	Heptane	SAM	4/18/2025 4:19:46 PM	MMDadoda	4/18/2025 10:43:30 PM	Peak Integrated by Software incorrectly
Q1726-05DL	VL042380.D	Propene	SAM	4/18/2025 4:19:46 PM	MMDadoda	4/18/2025 10:43:30 PM	Peak Integrated by Software incorrectly
Q1726-06DL	VL042381.D	2-Butanone	SAM	4/18/2025 4:19:42 PM	MMDadoda	4/18/2025 10:45:53 PM	Peak Integrated by Software incorrectly
Q1726-06DL	VL042381.D	Heptane	SAM	4/18/2025 4:19:42 PM	MMDadoda	4/18/2025 10:45:53 PM	Peak Integrated by Software incorrectly
Q1726-06DL	VL042381.D	Hexane	SAM	4/18/2025 4:19:42 PM	MMDadoda	4/18/2025 10:45:53 PM	Peak Integrated by Software incorrectly
Q1726-06DL	VL042381.D	m/p-Xylene	SAM	4/18/2025 4:19:42 PM	MMDadoda	4/18/2025 10:45:53 PM	Peak Integrated by Software incorrectly

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

Q1726-06DL	VL042381.D	Propene	SAM	4/18/2025 4:19:42 PM	MMDadoda	4/18/2025 10:45:53 PM	Peak Integrated by Software incorrectly
Q1726-06DL	VL042381.D	Toluene	SAM	4/18/2025 4:19:42 PM	MMDadoda	4/18/2025 10:45:53 PM	Peak Integrated by Software incorrectly

Manual Integration Report			
Sequence	VL041825	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC010	VL042383.D	m/p-Xylene	SAM	4/21/2025 7:55:57 AM	MMDadoda	4/21/2025 3:26:35 PM	Peak Integrated by Software incorrectly
VL0418ABS01	VL042385.D	m/p-Xylene	SAM	4/21/2025 7:56:01 AM	MMDadoda	4/21/2025 3:26:35 PM	Peak Integrated by Software incorrectly
Q1726-07DL2	VL042386.D	m/p-Xylene	SAM	4/21/2025 7:56:07 AM	MMDadoda	4/21/2025 3:26:35 PM	Peak Integrated by Software incorrectly
Q1726-07DL2	VL042386.D	Toluene	SAM	4/21/2025 7:56:07 AM	MMDadoda	4/21/2025 3:26:35 PM	Peak Integrated by Software

							incorrectly
Q1726-01DL2	VL042387.D	1,3,5-Trimethylbenzene	SAM	4/21/2025 7:56:30 AM	MMDadoda	4/21/2025 3:26:37 PM	Peak Integrated by Software incorrectly
Q1726-01DL2	VL042387.D	Ethyl Benzene	SAM	4/21/2025 7:56:30 AM	MMDadoda	4/21/2025 3:26:37 PM	Peak Integrated by Software incorrectly
Q1726-01DL2	VL042387.D	Heptane	SAM	4/21/2025 7:56:30 AM	MMDadoda	4/21/2025 3:26:37 PM	Peak Integrated by Software incorrectly
Q1726-02DL2	VL042388.D	2,2,4-Trimethylpentane	SAM	4/21/2025 7:56:12 AM	MMDadoda	4/21/2025 3:26:38 PM	Peak Integrated by Software incorrectly
Q1726-02DL2	VL042388.D	Ethyl Benzene	SAM	4/21/2025 7:56:12 AM	MMDadoda	4/21/2025 3:26:38 PM	Peak Integrated by Software incorrectly
Q1726-02DL2	VL042388.D	Heptane	SAM	4/21/2025 7:56:12 AM	MMDadoda	4/21/2025 3:26:38 PM	Peak Integrated by Software incorrectly
Q1726-02DL2	VL042388.D	o-Xylene	SAM	4/21/2025 7:56:12 AM	MMDadoda	4/21/2025 3:26:38 PM	Peak Integrated by Softwar

							e incorrectly
Q1726-04DL2	VL042389.D	2,2,4-Trimethylpentane	SAM	4/21/2025 7:56:35 AM	MMDadoda	4/21/2025 3:26:40 PM	Peak Integrated by Software incorrectly
Q1726-04DL2	VL042389.D	Ethyl Benzene	SAM	4/21/2025 7:56:35 AM	MMDadoda	4/21/2025 3:26:40 PM	Peak Integrated by Software incorrectly
Q1726-04DL2	VL042389.D	Heptane	SAM	4/21/2025 7:56:35 AM	MMDadoda	4/21/2025 3:26:40 PM	Peak Integrated by Software incorrectly
Q1726-03DL2	VL042390.D	Toluene	SAM	4/21/2025 7:56:40 AM	MMDadoda	4/21/2025 3:26:42 PM	Peak Integrated by Software incorrectly
Q1726-05DL2	VL042391.D	m/p-Xylene	SAM	4/21/2025 7:56:45 AM	MMDadoda	4/21/2025 3:26:44 PM	Peak Integrated by Software incorrectly
Q1726-05DL2	VL042391.D	Toluene	SAM	4/21/2025 7:56:45 AM	MMDadoda	4/21/2025 3:26:44 PM	Peak Integrated by Software incorrectly
Q1726-06DL2	VL042392.D	Toluene	SAM	4/21/2025 7:56:17	MMDadoda	4/21/2025 3:26:46	Peak Integrated by

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

				AM		PM	Software incorrectly
Q1726-06DL2DUP	VL042393.D	Toluene	SAM	4/21/2025 7:56:21 AM	MMDadoda	4/21/2025 3:26:48 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 package is in compliance with the terms and conditions of the contract, both technically and for completeness, 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 3:06 pm, Jul 07, 2025

284 Sheffield Street, Mountainside NJ 07092 Tel. 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

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

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q1726

	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: MOHAMMAD AHMED **Date:** 07/03/2025

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

LAB CHRONICLE

OrderID:	Q1726	**OrderDate:**	4/3/2025 1:58:00 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
Q1726-01	**IA-DUP-3-03312025**	**Air**			**04/01/25**			**04/03/25**
			TO-15	TO-15			04/17/25	
Q1726-01DL	**IA-DUP-3-03312025DL**	**Air**			**04/01/25**			**04/03/25**
			TO-15	TO-15			04/18/25	
Q1726-01DL2	**IA-DUP-3-03312025DL2**	**Air**			**04/01/25**			**04/03/25**
			TO-15	TO-15			04/18/25	
Q1726-02	**IA-B2-6-03312025**	**Air**			**04/01/25**			**04/03/25**
			TO-15	TO-15			04/17/25	
Q1726-02DL	**IA-B2-6-03312025DL**	**Air**			**04/01/25**			**04/03/25**
			TO-15	TO-15			04/18/25	
Q1726-02DL2	**IA-B2-6-03312025DL2**	**Air**			**04/01/25**			**04/03/25**
			TO-15	TO-15			04/18/25	
Q1726-03	**IA-B2-2-03312025**	**Air**			**04/01/25**			**04/03/25**
			TO-15	TO-15			04/17/25	
Q1726-03DL	**IA-B2-2-03312025DL**	**Air**			**04/01/25**			**04/03/25**
			TO-15	TO-15			04/18/25	
Q1726-03DL2	**IA-B2-2-03312025DL2**	**Air**			**04/01/25**			**04/03/25**
			TO-15	TO-15			04/18/25	
Q1726-04	**IA-B2-5-03312025**	**Air**			**04/01/25**			**04/03/25**
			TO-15	TO-15			04/17/25	

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

LAB CHRONICLE

Q1726-04DL	**IA-B2-5-03312025DL**	**Air**			**04/01/25**		**04/03/25**
			TO-15	TO-15		04/18/25	
Q1726-04DL2	**IA-B2-5-03312025DL2**	**Air**			**04/01/25**		**04/03/25**
			TO-15	TO-15		04/18/25	
Q1726-05	**IA-B2-1-03312025**	**Air**			**04/01/25**		**04/03/25**
			TO-15	TO-15		04/17/25	
Q1726-05DL	**IA-B2-1-03312025DL**	**Air**			**04/01/25**		**04/03/25**
			TO-15	TO-15		04/18/25	
Q1726-05DL2	**IA-B2-1-03312025DL2**	**Air**			**04/01/25**		**04/03/25**
			TO-15	TO-15		04/18/25	
Q1726-06	**IA-B2-3-03312025**	**Air**			**04/01/25**		**04/03/25**
			TO-15	TO-15		04/17/25	
Q1726-06DL	**IA-B2-3-03312025DL**	**Air**			**04/01/25**		**04/03/25**
			TO-15	TO-15		04/18/25	
Q1726-06DL2	**IA-B2-3-03312025DL2**	**Air**			**04/01/25**		**04/03/25**
			TO-15	TO-15		04/18/25	
Q1726-07	**IA-B2-4-03312025**	**Air**			**04/01/25**		**04/03/25**
			TO-15	TO-15		04/17/25	
Q1726-07DL	**IA-B2-4-03312025DL**	**Air**			**04/01/25**		**04/03/25**
			TO-15	TO-15		04/17/25	
Q1726-07DL2	**IA-B2-4-03312025DL2**	**Air**			**04/01/25**		**04/03/25**
			TO-15	TO-15		04/18/25	

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

Hit Summary Sheet
SW-846

SDG No.: Q1726

Client: Woodard & Curran

Sample ID	Client ID	Matrix	Parameter		Concentration	C	MDL	RDL	Units
Client ID:	**IA-DUP-3-03312025**								
Q1726-01	IA-DUP-3-0331202	Air	Dichlorodifluoromethane		2.37	J	1.04	2.47	ug/m3
Q1726-01	IA-DUP-3-0331202	Air	Ethanol		471	EQ	0.60	0.94	ug/m3
Q1726-01	IA-DUP-3-0331202	Air	Chloromethane		1.20		0.21	1.03	ug/m3
Q1726-01	IA-DUP-3-0331202	Air	Trichlorofluoromethane		1.35	J	0.90	2.81	ug/m3
Q1726-01	IA-DUP-3-0331202	Air	tert-Butyl alcohol		1.61		0.58	1.52	ug/m3
Q1726-01	IA-DUP-3-0331202	Air	Heptane		34.0		0.45	2.05	ug/m3
Q1726-01	IA-DUP-3-0331202	Air	Isopropyl Alcohol		70.1	E	0.17	1.23	ug/m3
Q1726-01	IA-DUP-3-0331202	Air	Acetone		356	E	0.57	1.19	ug/m3
Q1726-01	IA-DUP-3-0331202	Air	Methylene Chloride		7.30		0.66	1.74	ug/m3
Q1726-01	IA-DUP-3-0331202	Air	Cyclohexane		6.88		0.76	1.72	ug/m3
Q1726-01	IA-DUP-3-0331202	Air	2-Butanone		3.24		0.35	1.47	ug/m3
Q1726-01	IA-DUP-3-0331202	Air	Carbon Tetrachloride		0.50		0.060	0.19	ug/m3
Q1726-01	IA-DUP-3-0331202	Air	2,2,4-Trimethylpentane		85.0	E	0.47	2.34	ug/m3
Q1726-01	IA-DUP-3-0331202	Air	Benzene		5.43		0.29	1.60	ug/m3
Q1726-01	IA-DUP-3-0331202	Air	1,2-Dichloroethane		0.65	J	0.36	2.02	ug/m3
Q1726-01	IA-DUP-3-0331202	Air	Toluene		185	E	0.41	1.88	ug/m3
Q1726-01	IA-DUP-3-0331202	Air	Tetrachloroethene		0.68		0.14	0.20	ug/m3
Q1726-01	IA-DUP-3-0331202	Air	Ethyl Benzene		48.2		0.52	2.17	ug/m3
Q1726-01	IA-DUP-3-0331202	Air	m/p-Xylene		167	E	0.91	4.34	ug/m3
Q1726-01	IA-DUP-3-0331202	Air	o-Xylene		67.3	E	0.52	2.17	ug/m3
Q1726-01	IA-DUP-3-0331202	Air	Styrene		1.49	J	0.47	2.13	ug/m3
Q1726-01	IA-DUP-3-0331202	Air	2-Chlorotoluene		4.97		0.57	2.59	ug/m3
Q1726-01	IA-DUP-3-0331202	Air	1,3,5-Trimethylbenzene		34.4		0.54	2.46	ug/m3
Q1726-01	IA-DUP-3-0331202	Air	1,2,4-Trimethylbenzene		94.9	E	0.39	2.46	ug/m3
Q1726-01	IA-DUP-3-0331202	Air	1,4-Dichlorobenzene		1.56	J	0.30	3.01	ug/m3
Q1726-01	IA-DUP-3-0331202	Air	Naphthalene		12.1		0.42	0.52	ug/m3
Q1726-01	IA-DUP-3-0331202	Air	4-Ethyltoluene		28.0		0.59	2.46	ug/m3
Q1726-01	IA-DUP-3-0331202	Air	Hexane		16.6		0.39	1.76	ug/m3
			Total Voc :		1710				
Q1726-01	IA-DUP-3-0331202	Air	Butane	*	7.90	J	0	0	ppbv
Q1726-01	IA-DUP-3-0331202	Air	Cyclohexane, methyl-	*	9.30	J	0	0	ppbv
Q1726-01	IA-DUP-3-0331202	Air	Octane	*	9.70	J	0	0	ppbv
Q1726-01	IA-DUP-3-0331202	Air	Pentane, 2,3,4-trimethyl-	*	12.5	J	0	0	ppbv
Q1726-01	IA-DUP-3-0331202	Air	Hexane, 3-methyl-	*	11.2	J	0	0	ppbv
Q1726-01	IA-DUP-3-0331202	Air	Heptane, 3-methyl-	*	9.50	J	0	0	ppbv

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

Hit Summary Sheet
SW-846

SDG No.: Q1726

Client: Woodard & Curran

Sample ID	Client ID	Matrix	Parameter		Concentration	C	MDL	RDL	Units
Q1726-01	IA-DUP-3-0331202	Air	Hexane, 2-methyl-	*	10.4	J	0	0	ppbv
Q1726-01	IA-DUP-3-0331202	Air	Hexane, 2,5-dimethyl-	*	6.50	J	0	0	ppbv
Q1726-01	IA-DUP-3-0331202	Air	Benzene, 1-ethyl-2-methyl-	*	7.00	J	0	0	ppbv
Q1726-01	IA-DUP-3-0331202	Air	Benzene, 1-ethyl-2,3-dimethyl-	*	7.60	J	0	0	ppbv
Q1726-01	IA-DUP-3-0331202	Air	Chlorodifluoromethane	*	0.25	J	0.090	0.50	ppbv
Q1726-01	IA-DUP-3-0331202	Air	Naphthalene,2-methyl-	*	1.20	J	0.15	0.50	ppbv
Q1726-01	IA-DUP-3-0331202	Air	Propene	*	2.50	J	0.15	0.50	ppbv
Q1726-01	IA-DUP-3-0331202	Air	Isopropylbenzene	*	0.99	J	0.090	0.50	ppbv
Q1726-01	IA-DUP-3-0331202	Air	n-propylbenzene	*	3.30	J	0.080	0.50	ppbv
Q1726-01	IA-DUP-3-0331202	Air	sec-Butylbenzene	*	0.24	J	0.090	0.50	ppbv
Q1726-01	IA-DUP-3-0331202	Air	p-Isopropyltoluene	*	0.38	J	0.090	0.50	ppbv
Q1726-01	IA-DUP-3-0331202	Air	n-Butylbenzene	*	1.30	J	0.080	0.50	ppbv
			Total Tics :		102				
			Total Concentration:		1810				
Client ID:	**IA-DUP-3-03312025DL**								
Q1726-01DL	IA-DUP-3-0331202	Air	Ethanol		622	EDQ	12.1	18.8	ug/m3
Q1726-01DL	IA-DUP-3-0331202	Air	Heptane		39.3	JD	9.02	41.0	ug/m3
Q1726-01DL	IA-DUP-3-0331202	Air	Isopropyl Alcohol		88.2	D	3.44	24.6	ug/m3
Q1726-01DL	IA-DUP-3-0331202	Air	Acetone		1500	ED	11.4	23.8	ug/m3
Q1726-01DL	IA-DUP-3-0331202	Air	2,2,4-Trimethylpentane		95.3	D	9.34	46.7	ug/m3
Q1726-01DL	IA-DUP-3-0331202	Air	Benzene		7.35	JD	5.43	31.9	ug/m3
Q1726-01DL	IA-DUP-3-0331202	Air	Toluene		217	D	8.29	37.7	ug/m3
Q1726-01DL	IA-DUP-3-0331202	Air	Ethyl Benzene		52.6	D	10.4	43.4	ug/m3
Q1726-01DL	IA-DUP-3-0331202	Air	m/p-Xylene		192	D	18.2	86.9	ug/m3
Q1726-01DL	IA-DUP-3-0331202	Air	o-Xylene		74.7	D	10.4	43.4	ug/m3
Q1726-01DL	IA-DUP-3-0331202	Air	1,3,5-Trimethylbenzene		36.9	JD	10.8	49.2	ug/m3
Q1726-01DL	IA-DUP-3-0331202	Air	1,2,4-Trimethylbenzene		111	D	7.87	49.2	ug/m3
Q1726-01DL	IA-DUP-3-0331202	Air	4-Ethyltoluene		32.0	JD	11.8	49.2	ug/m3
			Total Voc :		3060				
			Total Concentration:		3060				
Client ID:	**IA-DUP-3-03312025DL2**								
Q1726-01DL2	IA-DUP-3-0331202	Air	Ethanol		415	DQ	24.1	37.7	ug/m3
Q1726-01DL2	IA-DUP-3-0331202	Air	Heptane		27.9	JDQ	18.0	82.0	ug/m3
Q1726-01DL2	IA-DUP-3-0331202	Air	Isopropyl Alcohol		72.0	D	6.88	49.2	ug/m3
Q1726-01DL2	IA-DUP-3-0331202	Air	Acetone		1160	D	22.8	47.5	ug/m3
Q1726-01DL2	IA-DUP-3-0331202	Air	2,2,4-Trimethylpentane		59.8	JD	18.7	93.4	ug/m3
Q1726-01DL2	IA-DUP-3-0331202	Air	Toluene		142	D	16.6	75.4	ug/m3

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

Hit Summary Sheet
SW-846

SDG No.: Q1726

Client: Woodard & Curran

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q1726-01DL2	IA-DUP-3-0331202	Air	Ethyl Benzene	34.8	JD	20.9	86.9	ug/m3
Q1726-01DL2	IA-DUP-3-0331202	Air	m/p-Xylene	124	JD	36.5	174	ug/m3
Q1726-01DL2	IA-DUP-3-0331202	Air	o-Xylene	49.5	JD	20.9	86.9	ug/m3
Q1726-01DL2	IA-DUP-3-0331202	Air	1,3,5-Trimethylbenzene	25.6	JD	21.6	98.3	ug/m3
Q1726-01DL2	IA-DUP-3-0331202	Air	1,2,4-Trimethylbenzene	70.8	JD	15.2	98.3	ug/m3
			Total Voc :	2190				
			Total Concentration:	2190				
Client ID:	**IA-B2-6-03312025**							
Q1726-02	IA-B2-6-03312025	Air	Dichlorodifluoromethane	2.42	J	1.04	2.47	ug/m3
Q1726-02	IA-B2-6-03312025	Air	Ethanol	452	EQ	0.60	0.94	ug/m3
Q1726-02	IA-B2-6-03312025	Air	Chloromethane	10.1		0.21	1.03	ug/m3
Q1726-02	IA-B2-6-03312025	Air	Tetrahydrofuran	1.33	J	0.38	1.47	ug/m3
Q1726-02	IA-B2-6-03312025	Air	Trichlorofluoromethane	1.29	J	0.90	2.81	ug/m3
Q1726-02	IA-B2-6-03312025	Air	tert-Butyl alcohol	3.33		0.58	1.52	ug/m3
Q1726-02	IA-B2-6-03312025	Air	Heptane	27.1		0.45	2.05	ug/m3
Q1726-02	IA-B2-6-03312025	Air	Isopropyl Alcohol	60.7	E	0.17	1.23	ug/m3
Q1726-02	IA-B2-6-03312025	Air	Acetone	309	E	0.57	1.19	ug/m3
Q1726-02	IA-B2-6-03312025	Air	Methylene Chloride	24.3		0.66	1.74	ug/m3
Q1726-02	IA-B2-6-03312025	Air	Cyclohexane	5.85		0.76	1.72	ug/m3
Q1726-02	IA-B2-6-03312025	Air	2-Butanone	5.60		0.35	1.47	ug/m3
Q1726-02	IA-B2-6-03312025	Air	Carbon Tetrachloride	0.63		0.060	0.19	ug/m3
Q1726-02	IA-B2-6-03312025	Air	Chloroform	1.81	J	0.39	2.44	ug/m3
Q1726-02	IA-B2-6-03312025	Air	1,1,1-Trichloroethane	0.38		0.050	0.16	ug/m3
Q1726-02	IA-B2-6-03312025	Air	2,2,4-Trimethylpentane	67.7		0.47	2.34	ug/m3
Q1726-02	IA-B2-6-03312025	Air	Benzene	5.43		0.29	1.60	ug/m3
Q1726-02	IA-B2-6-03312025	Air	1,2-Dichloroethane	0.69	J	0.36	2.02	ug/m3
Q1726-02	IA-B2-6-03312025	Air	Toluene	150	E	0.41	1.88	ug/m3
Q1726-02	IA-B2-6-03312025	Air	Tetrachloroethene	0.75		0.14	0.20	ug/m3
Q1726-02	IA-B2-6-03312025	Air	Ethyl Benzene	37.4		0.52	2.17	ug/m3
Q1726-02	IA-B2-6-03312025	Air	m/p-Xylene	128		0.91	4.34	ug/m3
Q1726-02	IA-B2-6-03312025	Air	o-Xylene	50.4		0.52	2.17	ug/m3
Q1726-02	IA-B2-6-03312025	Air	Styrene	1.36	J	0.47	2.13	ug/m3
Q1726-02	IA-B2-6-03312025	Air	2-Chlorotoluene	4.61		0.57	2.59	ug/m3
Q1726-02	IA-B2-6-03312025	Air	1,3,5-Trimethylbenzene	26.1		0.54	2.46	ug/m3
Q1726-02	IA-B2-6-03312025	Air	1,2,4-Trimethylbenzene	73.3		0.39	2.46	ug/m3
Q1726-02	IA-B2-6-03312025	Air	1,4-Dichlorobenzene	1.32	J	0.30	3.01	ug/m3
Q1726-02	IA-B2-6-03312025	Air	Naphthalene	8.91		0.42	0.52	ug/m3

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

Hit Summary Sheet
SW-846

SDG No.: Q1726

Client: Woodard & Curran

Sample ID	Client ID	Matrix	Parameter		Concentration	C	MDL	RDL	Units
Q1726-02	IA-B2-6-03312025	Air	4-Ethyltoluene		21.6		0.59	2.46	ug/m3
Q1726-02	IA-B2-6-03312025	Air	Hexane		24.7		0.39	1.76	ug/m3
			Total Voc :		1510				
Q1726-02	IA-B2-6-03312025	Air	Butane	*	12.1	J	0	0	ppbv
Q1726-02	IA-B2-6-03312025	Air	Pentane, 2-methyl-	*	5.90	J	0	0	ppbv
Q1726-02	IA-B2-6-03312025	Air	Cyclohexane, methyl-	*	7.40	J	0	0	ppbv
Q1726-02	IA-B2-6-03312025	Air	Octane	*	7.50	J	0	0	ppbv
Q1726-02	IA-B2-6-03312025	Air	Pentane, 2,3,4-trimethyl-	*	9.90	J	0	0	ppbv
Q1726-02	IA-B2-6-03312025	Air	Hexane, 3-methyl-	*	9.10	J	0	0	ppbv
Q1726-02	IA-B2-6-03312025	Air	Heptane, 3-methyl-	*	7.10	J	0	0	ppbv
Q1726-02	IA-B2-6-03312025	Air	Hexane, 2-methyl-	*	8.20	J	0	0	ppbv
Q1726-02	IA-B2-6-03312025	Air	Benzene, 1-ethyl-2,4-dimethyl-	*	5.70	J	0	0	ppbv
Q1726-02	IA-B2-6-03312025	Air	Hexane, 2,2,5-trimethyl-	*	5.20	J	0	0	ppbv
Q1726-02	IA-B2-6-03312025	Air	Chlorodifluoromethane	*	0.22	J	0.090	0.50	ppbv
Q1726-02	IA-B2-6-03312025	Air	Naphthalene,2-methyl-	*	0.77	J	0.15	0.50	ppbv
Q1726-02	IA-B2-6-03312025	Air	Propene	*	2.60	J	0.15	0.50	ppbv
Q1726-02	IA-B2-6-03312025	Air	Isopropylbenzene	*	0.74	J	0.090	0.50	ppbv
Q1726-02	IA-B2-6-03312025	Air	n-propylbenzene	*	2.60	J	0.080	0.50	ppbv
Q1726-02	IA-B2-6-03312025	Air	sec-Butylbenzene	*	0.18	J	0.090	0.50	ppbv
Q1726-02	IA-B2-6-03312025	Air	p-Isopropyltoluene	*	0.32	J	0.090	0.50	ppbv
Q1726-02	IA-B2-6-03312025	Air	n-Butylbenzene	*	0.94	J	0.080	0.50	ppbv
			Total Tics :		86.5				
			Total Concentration:		1590				
Client ID:	**IA-B2-6-03312025DL**								
Q1726-02DL	IA-B2-6-03312025I	Air	Ethanol		528	DQ	12.1	18.8	ug/m3
Q1726-02DL	IA-B2-6-03312025I	Air	Chloromethane		13.8	JD	4.13	20.6	ug/m3
Q1726-02DL	IA-B2-6-03312025I	Air	Heptane		30.7	JD	9.02	41.0	ug/m3
Q1726-02DL	IA-B2-6-03312025I	Air	Isopropyl Alcohol		74.7	D	3.44	24.6	ug/m3
Q1726-02DL	IA-B2-6-03312025I	Air	Acetone		784	ED	11.4	23.8	ug/m3
Q1726-02DL	IA-B2-6-03312025I	Air	2-Butanone		7.08	JD	7.08	29.5	ug/m3
Q1726-02DL	IA-B2-6-03312025I	Air	2,2,4-Trimethylpentane		72.9	D	9.34	46.7	ug/m3
Q1726-02DL	IA-B2-6-03312025I	Air	Benzene		7.99	JD	5.43	31.9	ug/m3
Q1726-02DL	IA-B2-6-03312025I	Air	Toluene		171	D	8.29	37.7	ug/m3
Q1726-02DL	IA-B2-6-03312025I	Air	Ethyl Benzene		39.5	JD	10.4	43.4	ug/m3
Q1726-02DL	IA-B2-6-03312025I	Air	m/p-Xylene		147	D	18.2	86.9	ug/m3
Q1726-02DL	IA-B2-6-03312025I	Air	o-Xylene		58.2	D	10.4	43.4	ug/m3
Q1726-02DL	IA-B2-6-03312025I	Air	1,3,5-Trimethylbenzene		26.6	JD	10.8	49.2	ug/m3

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

Hit Summary Sheet
SW-846

SDG No.: Q1726

Client: Woodard & Curran

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q1726-02DL	IA-B2-6-03312025I	Air	1,2,4-Trimethylbenzene	84.1	D	7.87	49.2	ug/m3
Q1726-02DL	IA-B2-6-03312025I	Air	4-Ethyltoluene	23.1	JD	11.8	49.2	ug/m3
			Total Voc :	2070				
			Total Concentration:	2070				
Client ID:	**IA-B2-6-03312025DL2**							
Q1726-02DL2	IA-B2-6-03312025I	Air	Ethanol	396	DQ	24.1	37.7	ug/m3
Q1726-02DL2	IA-B2-6-03312025I	Air	Chloromethane	10.3	JD	8.05	41.3	ug/m3
Q1726-02DL2	IA-B2-6-03312025I	Air	Heptane	22.1	JDQ	18.0	82.0	ug/m3
Q1726-02DL2	IA-B2-6-03312025I	Air	Isopropyl Alcohol	60.2	D	6.88	49.2	ug/m3
Q1726-02DL2	IA-B2-6-03312025I	Air	Acetone	570	D	22.8	47.5	ug/m3
Q1726-02DL2	IA-B2-6-03312025I	Air	2,2,4-Trimethylpentane	43.0	JD	18.7	93.4	ug/m3
Q1726-02DL2	IA-B2-6-03312025I	Air	Toluene	103	D	16.6	75.4	ug/m3
Q1726-02DL2	IA-B2-6-03312025I	Air	Ethyl Benzene	23.5	JD	20.9	86.9	ug/m3
Q1726-02DL2	IA-B2-6-03312025I	Air	m/p-Xylene	86.0	JD	36.5	174	ug/m3
Q1726-02DL2	IA-B2-6-03312025I	Air	o-Xylene	32.1	JD	20.9	86.9	ug/m3
Q1726-02DL2	IA-B2-6-03312025I	Air	1,2,4-Trimethylbenzene	47.7	JD	15.2	98.3	ug/m3
			Total Voc :	1390				
			Total Concentration:	1390				
Client ID:	**IA-B2-2-03312025**							
Q1726-03	IA-B2-2-03312025	Air	Dichlorodifluoromethane	2.32	J	1.04	2.47	ug/m3
Q1726-03	IA-B2-2-03312025	Air	Ethanol	433	EQ	0.60	0.94	ug/m3
Q1726-03	IA-B2-2-03312025	Air	Chloromethane	2.89		0.21	1.03	ug/m3
Q1726-03	IA-B2-2-03312025	Air	Tetrahydrofuran	0.80	J	0.38	1.47	ug/m3
Q1726-03	IA-B2-2-03312025	Air	Trichlorofluoromethane	1.40	J	0.90	2.81	ug/m3
Q1726-03	IA-B2-2-03312025	Air	tert-Butyl alcohol	2.24		0.58	1.52	ug/m3
Q1726-03	IA-B2-2-03312025	Air	Heptane	12.3		0.45	2.05	ug/m3
Q1726-03	IA-B2-2-03312025	Air	Isopropyl Alcohol	107	E	0.17	1.23	ug/m3
Q1726-03	IA-B2-2-03312025	Air	Acetone	428	E	0.57	1.19	ug/m3
Q1726-03	IA-B2-2-03312025	Air	Methylene Chloride	18.8		0.66	1.74	ug/m3
Q1726-03	IA-B2-2-03312025	Air	Cyclohexane	3.34		0.76	1.72	ug/m3
Q1726-03	IA-B2-2-03312025	Air	2-Butanone	4.42		0.35	1.47	ug/m3
Q1726-03	IA-B2-2-03312025	Air	Carbon Tetrachloride	0.57		0.060	0.19	ug/m3
Q1726-03	IA-B2-2-03312025	Air	Chloroform	0.63	J	0.39	2.44	ug/m3
Q1726-03	IA-B2-2-03312025	Air	2,2,4-Trimethylpentane	39.2		0.47	2.34	ug/m3
Q1726-03	IA-B2-2-03312025	Air	Benzene	2.88		0.29	1.60	ug/m3
Q1726-03	IA-B2-2-03312025	Air	1,2-Dichloroethane	0.65	J	0.36	2.02	ug/m3
Q1726-03	IA-B2-2-03312025	Air	Toluene	70.5	E	0.41	1.88	ug/m3

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

Hit Summary Sheet
SW-846

SDG No.: Q1726

Client: Woodard & Curran

Sample ID	Client ID	Matrix	Parameter		Concentration	C	MDL	RDL	Units
Q1726-03	IA-B2-2-03312025	Air	Tetrachloroethene		1.76		0.14	0.20	ug/m3
Q1726-03	IA-B2-2-03312025	Air	Ethyl Benzene		15.6		0.52	2.17	ug/m3
Q1726-03	IA-B2-2-03312025	Air	m/p-Xylene		54.7		0.91	4.34	ug/m3
Q1726-03	IA-B2-2-03312025	Air	o-Xylene		21.7		0.52	2.17	ug/m3
Q1726-03	IA-B2-2-03312025	Air	Styrene		1.70	J	0.47	2.13	ug/m3
Q1726-03	IA-B2-2-03312025	Air	2-Chlorotoluene		2.69		0.57	2.59	ug/m3
Q1726-03	IA-B2-2-03312025	Air	1,3,5-Trimethylbenzene		10.3		0.54	2.46	ug/m3
Q1726-03	IA-B2-2-03312025	Air	1,2,4-Trimethylbenzene		28.5		0.39	2.46	ug/m3
Q1726-03	IA-B2-2-03312025	Air	1,4-Dichlorobenzene		0.60	J	0.30	3.01	ug/m3
Q1726-03	IA-B2-2-03312025	Air	Naphthalene		2.20		0.42	0.52	ug/m3
Q1726-03	IA-B2-2-03312025	Air	4-Ethyltoluene		8.85		0.59	2.46	ug/m3
Q1726-03	IA-B2-2-03312025	Air	Hexane		15.2		0.39	1.76	ug/m3
			Total Voc :		1300				
Q1726-03	IA-B2-2-03312025	Air	unknown2.276	*	3.90	J	0	0	ppbv
Q1726-03	IA-B2-2-03312025	Air	Butane	*	8.70	J	0	0	ppbv
Q1726-03	IA-B2-2-03312025	Air	Pentane, 2-methyl-	*	3.00	J	0	0	ppbv
Q1726-03	IA-B2-2-03312025	Air	Cyclohexane, methyl-	*	3.70	J	0	0	ppbv
Q1726-03	IA-B2-2-03312025	Air	2-Octanone	*	65.3	J	0	0	ppbv
Q1726-03	IA-B2-2-03312025	Air	Octane	*	4.20	J	0	0	ppbv
Q1726-03	IA-B2-2-03312025	Air	Pentane, 2,3,4-trimethyl-	*	5.60	J	0	0	ppbv
Q1726-03	IA-B2-2-03312025	Air	Hexane, 3-methyl-	*	4.70	J	0	0	ppbv
Q1726-03	IA-B2-2-03312025	Air	Hexane, 2-methyl-	*	3.90	J	0	0	ppbv
Q1726-03	IA-B2-2-03312025	Air	Chlorodifluoromethane	*	0.27	J	0.090	0.50	ppbv
Q1726-03	IA-B2-2-03312025	Air	Naphthalene,2-methyl-	*	0.17	J	0.15	0.50	ppbv
Q1726-03	IA-B2-2-03312025	Air	Propene	*	3.10	J	0.15	0.50	ppbv
Q1726-03	IA-B2-2-03312025	Air	Isopropylbenzene	*	0.34	J	0.090	0.50	ppbv
Q1726-03	IA-B2-2-03312025	Air	n-propylbenzene	*	1.00	J	0.080	0.50	ppbv
Q1726-03	IA-B2-2-03312025	Air	p-Isopropyltoluene	*	0.18	J	0.090	0.50	ppbv
Q1726-03	IA-B2-2-03312025	Air	n-Butylbenzene	*	0.39	J	0.080	0.50	ppbv
			Total Tics :		108				
			Total Concentration:		1400				
Client ID:	**IA-B2-2-03312025DL**								
Q1726-03DL	IA-B2-2-03312025I	Air	Ethanol		509	DQ	12.1	18.8	ug/m3
Q1726-03DL	IA-B2-2-03312025I	Air	Chloromethane		6.20	JD	4.13	20.6	ug/m3
Q1726-03DL	IA-B2-2-03312025I	Air	Heptane		13.1	JD	9.02	41.0	ug/m3
Q1726-03DL	IA-B2-2-03312025I	Air	Isopropyl Alcohol		121	D	3.44	24.6	ug/m3
Q1726-03DL	IA-B2-2-03312025I	Air	Acetone		2020	ED	11.4	23.8	ug/m3

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

Hit Summary Sheet
SW-846

SDG No.: Q1726

Client: Woodard & Curran

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q1726-03DL	IA-B2-2-03312025I	Air	2,2,4-Trimethylpentane	36.4	JD	9.34	46.7	ug/m3
Q1726-03DL	IA-B2-2-03312025I	Air	Toluene	67.1	D	8.29	37.7	ug/m3
Q1726-03DL	IA-B2-2-03312025I	Air	Ethyl Benzene	15.2	JD	10.4	43.4	ug/m3
Q1726-03DL	IA-B2-2-03312025I	Air	m/p-Xylene	52.1	JD	18.2	86.9	ug/m3
Q1726-03DL	IA-B2-2-03312025I	Air	o-Xylene	20.4	JD	10.4	43.4	ug/m3
Q1726-03DL	IA-B2-2-03312025I	Air	1,2,4-Trimethylbenzene	28.5	JD	7.87	49.2	ug/m3
			Total Voc :	2890				
			Total Concentration:	2890				
Client ID:	**IA-B2-2-03312025DL2**							
Q1726-03DL2	IA-B2-2-03312025I	Air	Ethanol	471	DQ	60.3	94.2	ug/m3
Q1726-03DL2	IA-B2-2-03312025I	Air	Isopropyl Alcohol	88.7	JD	17.0	123	ug/m3
Q1726-03DL2	IA-B2-2-03312025I	Air	Acetone	1450	D	57.0	119	ug/m3
Q1726-03DL2	IA-B2-2-03312025I	Air	Toluene	43.0	JD	41.5	188	ug/m3
			Total Voc :	2050				
			Total Concentration:	2050				
Client ID:	**IA-B2-5-03312025**							
Q1726-04	IA-B2-5-03312025	Air	Dichlorodifluoromethane	2.37	J	1.04	2.47	ug/m3
Q1726-04	IA-B2-5-03312025	Air	Ethanol	509	EQ	0.60	0.94	ug/m3
Q1726-04	IA-B2-5-03312025	Air	Chloromethane	1.36		0.21	1.03	ug/m3
Q1726-04	IA-B2-5-03312025	Air	Trichlorofluoromethane	1.24	J	0.90	2.81	ug/m3
Q1726-04	IA-B2-5-03312025	Air	tert-Butyl alcohol	2.00		0.58	1.52	ug/m3
Q1726-04	IA-B2-5-03312025	Air	Heptane	35.2		0.45	2.05	ug/m3
Q1726-04	IA-B2-5-03312025	Air	Isopropyl Alcohol	72.8	E	0.17	1.23	ug/m3
Q1726-04	IA-B2-5-03312025	Air	Acetone	356	E	0.57	1.19	ug/m3
Q1726-04	IA-B2-5-03312025	Air	Methylene Chloride	10.1		0.66	1.74	ug/m3
Q1726-04	IA-B2-5-03312025	Air	Cyclohexane	7.23		0.76	1.72	ug/m3
Q1726-04	IA-B2-5-03312025	Air	2-Butanone	3.54		0.35	1.47	ug/m3
Q1726-04	IA-B2-5-03312025	Air	Carbon Tetrachloride	0.44		0.060	0.19	ug/m3
Q1726-04	IA-B2-5-03312025	Air	2,2,4-Trimethylpentane	90.2	E	0.47	2.34	ug/m3
Q1726-04	IA-B2-5-03312025	Air	Benzene	6.07		0.29	1.60	ug/m3
Q1726-04	IA-B2-5-03312025	Air	Toluene	194	E	0.41	1.88	ug/m3
Q1726-04	IA-B2-5-03312025	Air	Tetrachloroethene	0.95		0.14	0.20	ug/m3
Q1726-04	IA-B2-5-03312025	Air	Ethyl Benzene	49.1		0.52	2.17	ug/m3
Q1726-04	IA-B2-5-03312025	Air	m/p-Xylene	169	E	0.91	4.34	ug/m3
Q1726-04	IA-B2-5-03312025	Air	o-Xylene	66.5	E	0.52	2.17	ug/m3
Q1726-04	IA-B2-5-03312025	Air	Styrene	1.62	J	0.47	2.13	ug/m3
Q1726-04	IA-B2-5-03312025	Air	2-Chlorotoluene	5.18		0.57	2.59	ug/m3

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

Hit Summary Sheet
SW-846

SDG No.: Q1726

Client: Woodard & Curran

Sample ID	Client ID	Matrix	Parameter		Concentration	C	MDL	RDL	Units
Q1726-04	IA-B2-5-03312025	Air	1,3,5-Trimethylbenzene		34.9		0.54	2.46	ug/m3
Q1726-04	IA-B2-5-03312025	Air	1,2,4-Trimethylbenzene		96.8	E	0.39	2.46	ug/m3
Q1726-04	IA-B2-5-03312025	Air	1,4-Dichlorobenzene		2.04	J	0.30	3.01	ug/m3
Q1726-04	IA-B2-5-03312025	Air	Naphthalene		12.6		0.42	0.52	ug/m3
Q1726-04	IA-B2-5-03312025	Air	4-Ethyltoluene		27.0		0.59	2.46	ug/m3
Q1726-04	IA-B2-5-03312025	Air	Hexane		19.7		0.39	1.76	ug/m3
			Total Voc :		1780				
Q1726-04	IA-B2-5-03312025	Air	Cyclopentane, methyl-	*	6.80	J	0	0	ppbv
Q1726-04	IA-B2-5-03312025	Air	Butane	*	8.60	J	0	0	ppbv
Q1726-04	IA-B2-5-03312025	Air	Cyclohexane, methyl-	*	9.50	J	0	0	ppbv
Q1726-04	IA-B2-5-03312025	Air	Octane	*	9.90	J	0	0	ppbv
Q1726-04	IA-B2-5-03312025	Air	Pentane, 2,3,4-trimethyl-	*	13.4	J	0	0	ppbv
Q1726-04	IA-B2-5-03312025	Air	Hexane, 3-methyl-	*	11.4	J	0	0	ppbv
Q1726-04	IA-B2-5-03312025	Air	Heptane, 3-methyl-	*	9.40	J	0	0	ppbv
Q1726-04	IA-B2-5-03312025	Air	Hexane, 2-methyl-	*	10.4	J	0	0	ppbv
Q1726-04	IA-B2-5-03312025	Air	Hexane, 2,5-dimethyl-	*	7.00	J	0	0	ppbv
Q1726-04	IA-B2-5-03312025	Air	Benzene, 1-ethyl-2,4-dimethyl-	*	7.50	J	0	0	ppbv
Q1726-04	IA-B2-5-03312025	Air	Chlorodifluoromethane	*	0.27	J	0.090	0.50	ppbv
Q1726-04	IA-B2-5-03312025	Air	Naphthalene,2-methyl-	*	1.30	J	0.15	0.50	ppbv
Q1726-04	IA-B2-5-03312025	Air	Propene	*	2.60	J	0.15	0.50	ppbv
Q1726-04	IA-B2-5-03312025	Air	Isopropylbenzene	*	0.99	J	0.090	0.50	ppbv
Q1726-04	IA-B2-5-03312025	Air	n-propylbenzene	*	3.40	J	0.080	0.50	ppbv
Q1726-04	IA-B2-5-03312025	Air	sec-Butylbenzene	*	0.24	J	0.090	0.50	ppbv
Q1726-04	IA-B2-5-03312025	Air	p-Isopropyltoluene	*	0.44	J	0.090	0.50	ppbv
Q1726-04	IA-B2-5-03312025	Air	n-Butylbenzene	*	1.30	J	0.080	0.50	ppbv
			Total Tics :		104				
			Total Concentration:		1880				
Client ID:	**IA-B2-5-03312025DL**								
Q1726-04DL	IA-B2-5-03312025I	Air	Ethanol		641	EDQ	12.1	18.8	ug/m3
Q1726-04DL	IA-B2-5-03312025I	Air	Heptane		38.5	JD	9.02	41.0	ug/m3
Q1726-04DL	IA-B2-5-03312025I	Air	Isopropyl Alcohol		89.0	D	3.44	24.6	ug/m3
Q1726-04DL	IA-B2-5-03312025I	Air	Acetone		1260	ED	11.4	23.8	ug/m3
Q1726-04DL	IA-B2-5-03312025I	Air	2,2,4-Trimethylpentane		98.5	D	9.34	46.7	ug/m3
Q1726-04DL	IA-B2-5-03312025I	Air	Benzene		7.99	JD	5.43	31.9	ug/m3
Q1726-04DL	IA-B2-5-03312025I	Air	Toluene		220	D	8.29	37.7	ug/m3
Q1726-04DL	IA-B2-5-03312025I	Air	Ethyl Benzene		53.4	D	10.4	43.4	ug/m3
Q1726-04DL	IA-B2-5-03312025I	Air	m/p-Xylene		196	D	18.2	86.9	ug/m3

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

Hit Summary Sheet
SW-846

SDG No.: Q1726

Client: Woodard & Curran

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q1726-04DL	IA-B2-5-03312025I	Air	o-Xylene	73.0	D	10.4	43.4	ug/m3
Q1726-04DL	IA-B2-5-03312025I	Air	1,3,5-Trimethylbenzene	38.8	JD	10.8	49.2	ug/m3
Q1726-04DL	IA-B2-5-03312025I	Air	1,2,4-Trimethylbenzene	110	D	7.87	49.2	ug/m3
Q1726-04DL	IA-B2-5-03312025I	Air	4-Ethyltoluene	29.5	JD	11.8	49.2	ug/m3
			Total Voc :	2850				
			Total Concentration:	2850				
Client ID:	**IA-B2-5-03312025DL2**							
Q1726-04DL2	IA-B2-5-03312025I	Air	Ethanol	452	DQ	24.1	37.7	ug/m3
Q1726-04DL2	IA-B2-5-03312025I	Air	Heptane	25.4	JDQ	18.0	82.0	ug/m3
Q1726-04DL2	IA-B2-5-03312025I	Air	Isopropyl Alcohol	63.4	D	6.88	49.2	ug/m3
Q1726-04DL2	IA-B2-5-03312025I	Air	Acetone	903	D	22.8	47.5	ug/m3
Q1726-04DL2	IA-B2-5-03312025I	Air	2,2,4-Trimethylpentane	55.6	JD	18.7	93.4	ug/m3
Q1726-04DL2	IA-B2-5-03312025I	Air	Toluene	134	D	16.6	75.4	ug/m3
Q1726-04DL2	IA-B2-5-03312025I	Air	Ethyl Benzene	32.1	JD	20.9	86.9	ug/m3
Q1726-04DL2	IA-B2-5-03312025I	Air	m/p-Xylene	115	JD	36.5	174	ug/m3
Q1726-04DL2	IA-B2-5-03312025I	Air	o-Xylene	44.3	JD	20.9	86.9	ug/m3
Q1726-04DL2	IA-B2-5-03312025I	Air	1,3,5-Trimethylbenzene	23.1	JD	21.6	98.3	ug/m3
Q1726-04DL2	IA-B2-5-03312025I	Air	1,2,4-Trimethylbenzene	66.4	JD	15.2	98.3	ug/m3
			Total Voc :	1910				
			Total Concentration:	1910				
Client ID:	**IA-B2-1-03312025**							
Q1726-05	IA-B2-1-03312025	Air	Dichlorodifluoromethane	2.47		1.04	2.47	ug/m3
Q1726-05	IA-B2-1-03312025	Air	Ethanol	528	EQ	0.60	0.94	ug/m3
Q1726-05	IA-B2-1-03312025	Air	Chloromethane	1.34		0.21	1.03	ug/m3
Q1726-05	IA-B2-1-03312025	Air	Trichlorofluoromethane	1.40	J	0.90	2.81	ug/m3
Q1726-05	IA-B2-1-03312025	Air	tert-Butyl alcohol	2.15		0.58	1.52	ug/m3
Q1726-05	IA-B2-1-03312025	Air	Heptane	19.7		0.45	2.05	ug/m3
Q1726-05	IA-B2-1-03312025	Air	Isopropyl Alcohol	90.2	E	0.17	1.23	ug/m3
Q1726-05	IA-B2-1-03312025	Air	Acetone	404	E	0.57	1.19	ug/m3
Q1726-05	IA-B2-1-03312025	Air	Methylene Chloride	9.03		0.66	1.74	ug/m3
Q1726-05	IA-B2-1-03312025	Air	Cyclohexane	4.82		0.76	1.72	ug/m3
Q1726-05	IA-B2-1-03312025	Air	2-Butanone	3.54		0.35	1.47	ug/m3
Q1726-05	IA-B2-1-03312025	Air	Carbon Tetrachloride	0.57		0.060	0.19	ug/m3
Q1726-05	IA-B2-1-03312025	Air	1,1,1-Trichloroethane	0.16		0.050	0.16	ug/m3
Q1726-05	IA-B2-1-03312025	Air	2,2,4-Trimethylpentane	56.5		0.47	2.34	ug/m3
Q1726-05	IA-B2-1-03312025	Air	Benzene	4.15		0.29	1.60	ug/m3
Q1726-05	IA-B2-1-03312025	Air	Toluene	116	E	0.41	1.88	ug/m3

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

Hit Summary Sheet
SW-846

SDG No.: Q1726

Client: Woodard & Curran

Sample ID	Client ID	Matrix	Parameter		Concentration	C	MDL	RDL	Units
Q1726-05	IA-B2-1-03312025	Air	Tetrachloroethene		1.36		0.14	0.20	ug/m3
Q1726-05	IA-B2-1-03312025	Air	Ethyl Benzene		26.9		0.52	2.17	ug/m3
Q1726-05	IA-B2-1-03312025	Air	m/p-Xylene		93.8		0.91	4.34	ug/m3
Q1726-05	IA-B2-1-03312025	Air	o-Xylene		36.5		0.52	2.17	ug/m3
Q1726-05	IA-B2-1-03312025	Air	Styrene		1.62	J	0.47	2.13	ug/m3
Q1726-05	IA-B2-1-03312025	Air	2-Chlorotoluene		4.14		0.57	2.59	ug/m3
Q1726-05	IA-B2-1-03312025	Air	1,3,5-Trimethylbenzene		16.7		0.54	2.46	ug/m3
Q1726-05	IA-B2-1-03312025	Air	1,2,4-Trimethylbenzene		45.7		0.39	2.46	ug/m3
Q1726-05	IA-B2-1-03312025	Air	1,4-Dichlorobenzene		0.90	J	0.30	3.01	ug/m3
Q1726-05	IA-B2-1-03312025	Air	Naphthalene		1.89		0.42	0.52	ug/m3
Q1726-05	IA-B2-1-03312025	Air	4-Ethyltoluene		15.2		0.59	2.46	ug/m3
Q1726-05	IA-B2-1-03312025	Air	Hexane		13.7		0.39	1.76	ug/m3
			Total Voc :		1500				
Q1726-05	IA-B2-1-03312025	Air	1-Propanol	*	4.30	J	0	0	ppbv
Q1726-05	IA-B2-1-03312025	Air	Cyclopentane, methyl-	*	4.50	J	0	0	ppbv
Q1726-05	IA-B2-1-03312025	Air	Butane	*	10.0	J	0	0	ppbv
Q1726-05	IA-B2-1-03312025	Air	Cyclohexane, methyl-	*	5.70	J	0	0	ppbv
Q1726-05	IA-B2-1-03312025	Air	Octane	*	5.90	J	0	0	ppbv
Q1726-05	IA-B2-1-03312025	Air	Pentane, 2,3,4-trimethyl-	*	8.30	J	0	0	ppbv
Q1726-05	IA-B2-1-03312025	Air	Hexane, 3-methyl-	*	6.90	J	0	0	ppbv
Q1726-05	IA-B2-1-03312025	Air	Heptane, 3-methyl-	*	5.50	J	0	0	ppbv
Q1726-05	IA-B2-1-03312025	Air	Hexane, 2-methyl-	*	6.10	J	0	0	ppbv
Q1726-05	IA-B2-1-03312025	Air	Hexane, 2,2,4-trimethyl-	*	4.10	J	0	0	ppbv
Q1726-05	IA-B2-1-03312025	Air	Chlorodifluoromethane	*	0.28	J	0.090	0.50	ppbv
Q1726-05	IA-B2-1-03312025	Air	Propene	*	3.10	J	0.15	0.50	ppbv
Q1726-05	IA-B2-1-03312025	Air	Isopropylbenzene	*	0.57	J	0.090	0.50	ppbv
Q1726-05	IA-B2-1-03312025	Air	n-propylbenzene	*	1.90	J	0.080	0.50	ppbv
Q1726-05	IA-B2-1-03312025	Air	sec-Butylbenzene	*	0.13	J	0.090	0.50	ppbv
Q1726-05	IA-B2-1-03312025	Air	p-Isopropyltoluene	*	0.24	J	0.090	0.50	ppbv
Q1726-05	IA-B2-1-03312025	Air	n-Butylbenzene	*	0.55	J	0.080	0.50	ppbv
			Total Tics :		68.1				
			Total Concentration:		1570				
Client ID:	**IA-B2-1-03312025DL**								
Q1726-05DL	IA-B2-1-03312025I	Air	Ethanol		678	EDQ	12.1	18.8	ug/m3
Q1726-05DL	IA-B2-1-03312025I	Air	Heptane		22.9	JD	9.02	41.0	ug/m3
Q1726-05DL	IA-B2-1-03312025I	Air	Isopropyl Alcohol		116	D	3.44	24.6	ug/m3
Q1726-05DL	IA-B2-1-03312025I	Air	Acetone		1810	ED	11.4	23.8	ug/m3

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

Hit Summary Sheet
SW-846

SDG No.: Q1726

Client: Woodard & Curran

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q1726-05DL	IA-B2-1-03312025I	Air	2,2,4-Trimethylpentane	58.4	D	9.34	46.7	ug/m3
Q1726-05DL	IA-B2-1-03312025I	Air	Toluene	132	D	8.29	37.7	ug/m3
Q1726-05DL	IA-B2-1-03312025I	Air	Ethyl Benzene	29.1	JD	10.4	43.4	ug/m3
Q1726-05DL	IA-B2-1-03312025I	Air	m/p-Xylene	104	D	18.2	86.9	ug/m3
Q1726-05DL	IA-B2-1-03312025I	Air	o-Xylene	39.5	JD	10.4	43.4	ug/m3
Q1726-05DL	IA-B2-1-03312025I	Air	1,3,5-Trimethylbenzene	19.7	JD	10.8	49.2	ug/m3
Q1726-05DL	IA-B2-1-03312025I	Air	1,2,4-Trimethylbenzene	48.7	JD	7.87	49.2	ug/m3
Q1726-05DL	IA-B2-1-03312025I	Air	4-Ethyltoluene	16.7	JD	11.8	49.2	ug/m3
			Total Voc :	3070				
			Total Concentration:	3070				
Client ID:	**IA-B2-1-03312025DL2**							
Q1726-05DL2	IA-B2-1-03312025I	Air	Ethanol	377	DQ	60.3	94.2	ug/m3
Q1726-05DL2	IA-B2-1-03312025I	Air	Isopropyl Alcohol	72.5	JD	17.0	123	ug/m3
Q1726-05DL2	IA-B2-1-03312025I	Air	Acetone	1210	D	57.0	119	ug/m3
Q1726-05DL2	IA-B2-1-03312025I	Air	Toluene	73.1	JD	41.5	188	ug/m3
			Total Voc :	1730				
			Total Concentration:	1730				
Client ID:	**IA-B2-3-03312025**							
Q1726-06	IA-B2-3-03312025	Air	Dichlorodifluoromethane	2.37	J	1.04	2.47	ug/m3
Q1726-06	IA-B2-3-03312025	Air	Ethanol	584	EQ	0.60	0.94	ug/m3
Q1726-06	IA-B2-3-03312025	Air	Chloromethane	2.48		0.21	1.03	ug/m3
Q1726-06	IA-B2-3-03312025	Air	Tetrahydrofuran	1.06	J	0.38	1.47	ug/m3
Q1726-06	IA-B2-3-03312025	Air	Trichlorofluoromethane	1.35	J	0.90	2.81	ug/m3
Q1726-06	IA-B2-3-03312025	Air	tert-Butyl alcohol	2.09		0.58	1.52	ug/m3
Q1726-06	IA-B2-3-03312025	Air	Heptane	13.9		0.45	2.05	ug/m3
Q1726-06	IA-B2-3-03312025	Air	Isopropyl Alcohol	84.8	E	0.17	1.23	ug/m3
Q1726-06	IA-B2-3-03312025	Air	Acetone	404	E	0.57	1.19	ug/m3
Q1726-06	IA-B2-3-03312025	Air	Methylene Chloride	11.1		0.66	1.74	ug/m3
Q1726-06	IA-B2-3-03312025	Air	Cyclohexane	3.79		0.76	1.72	ug/m3
Q1726-06	IA-B2-3-03312025	Air	2-Butanone	6.19		0.35	1.47	ug/m3
Q1726-06	IA-B2-3-03312025	Air	Carbon Tetrachloride	0.50		0.060	0.19	ug/m3
Q1726-06	IA-B2-3-03312025	Air	Chloroform	0.73	J	0.39	2.44	ug/m3
Q1726-06	IA-B2-3-03312025	Air	2,2,4-Trimethylpentane	43.9		0.47	2.34	ug/m3
Q1726-06	IA-B2-3-03312025	Air	Benzene	3.51		0.29	1.60	ug/m3
Q1726-06	IA-B2-3-03312025	Air	Toluene	84.0	E	0.41	1.88	ug/m3
Q1726-06	IA-B2-3-03312025	Air	Tetrachloroethene	0.95		0.14	0.20	ug/m3
Q1726-06	IA-B2-3-03312025	Air	Ethyl Benzene	18.7		0.52	2.17	ug/m3

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

Hit Summary Sheet
SW-846

SDG No.: Q1726

Client: Woodard & Curran

Sample ID	Client ID	Matrix	Parameter		Concentration	C	MDL	RDL	Units
Q1726-06	IA-B2-3-03312025	Air	m/p-Xylene		64.7		0.91	4.34	ug/m3
Q1726-06	IA-B2-3-03312025	Air	o-Xylene		25.2		0.52	2.17	ug/m3
Q1726-06	IA-B2-3-03312025	Air	Styrene		1.66	J	0.47	2.13	ug/m3
Q1726-06	IA-B2-3-03312025	Air	2-Chlorotoluene		4.35		0.57	2.59	ug/m3
Q1726-06	IA-B2-3-03312025	Air	1,3,5-Trimethylbenzene		12.8		0.54	2.46	ug/m3
Q1726-06	IA-B2-3-03312025	Air	1,2,4-Trimethylbenzene		35.4		0.39	2.46	ug/m3
Q1726-06	IA-B2-3-03312025	Air	1,4-Dichlorobenzene		1.20	J	0.30	3.01	ug/m3
Q1726-06	IA-B2-3-03312025	Air	Naphthalene		2.36		0.42	0.52	ug/m3
Q1726-06	IA-B2-3-03312025	Air	4-Ethyltoluene		10.3		0.59	2.46	ug/m3
Q1726-06	IA-B2-3-03312025	Air	Hexane		12.3		0.39	1.76	ug/m3
			Total Voc :		1440				
Q1726-06	IA-B2-3-03312025	Air	1-Propanol	*	5.60	J	0	0	ppbv
Q1726-06	IA-B2-3-03312025	Air	Cyclopentane, methyl-	*	4.30	J	0	0	ppbv
Q1726-06	IA-B2-3-03312025	Air	Butane	*	9.00	J	0	0	ppbv
Q1726-06	IA-B2-3-03312025	Air	Pentane, 2-methyl-	*	3.80	J	0	0	ppbv
Q1726-06	IA-B2-3-03312025	Air	Cyclohexane, methyl-	*	4.20	J	0	0	ppbv
Q1726-06	IA-B2-3-03312025	Air	Octane	*	4.70	J	0	0	ppbv
Q1726-06	IA-B2-3-03312025	Air	Pentane, 2,3,4-trimethyl-	*	6.20	J	0	0	ppbv
Q1726-06	IA-B2-3-03312025	Air	Hexane, 3-methyl-	*	5.00	J	0	0	ppbv
Q1726-06	IA-B2-3-03312025	Air	Heptane, 3-methyl-	*	3.80	J	0	0	ppbv
Q1726-06	IA-B2-3-03312025	Air	Hexane, 2-methyl-	*	4.40	J	0	0	ppbv
Q1726-06	IA-B2-3-03312025	Air	Chlorodifluoromethane	*	0.31	J	0.090	0.50	ppbv
Q1726-06	IA-B2-3-03312025	Air	Propene	*	3.00	J	0.15	0.50	ppbv
Q1726-06	IA-B2-3-03312025	Air	Isopropylbenzene	*	0.39	J	0.090	0.50	ppbv
Q1726-06	IA-B2-3-03312025	Air	n-propylbenzene	*	1.30	J	0.080	0.50	ppbv
Q1726-06	IA-B2-3-03312025	Air	p-Isopropyltoluene	*	0.31	J	0.090	0.50	ppbv
Q1726-06	IA-B2-3-03312025	Air	n-Butylbenzene	*	0.43	J	0.080	0.50	ppbv
			Total Tics :		56.7				
			Total Concentration:		1500				
Client ID:	**IA-B2-3-03312025DL**								
Q1726-06DL	IA-B2-3-03312025I	Air	Ethanol		697	EDQ	12.1	18.8	ug/m3
Q1726-06DL	IA-B2-3-03312025I	Air	Heptane		16.0	JD	9.02	41.0	ug/m3
Q1726-06DL	IA-B2-3-03312025I	Air	Isopropyl Alcohol		111	D	3.44	24.6	ug/m3
Q1726-06DL	IA-B2-3-03312025I	Air	Acetone		1590	ED	11.4	23.8	ug/m3
Q1726-06DL	IA-B2-3-03312025I	Air	2-Butanone		9.44	JD	7.08	29.5	ug/m3
Q1726-06DL	IA-B2-3-03312025I	Air	2,2,4-Trimethylpentane		46.2	JD	9.34	46.7	ug/m3
Q1726-06DL	IA-B2-3-03312025I	Air	Toluene		87.8	D	8.29	37.7	ug/m3

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

Hit Summary Sheet
SW-846

SDG No.: Q1726

Client: Woodard & Curran

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q1726-06DL	IA-B2-3-03312025I	Air	Ethyl Benzene	19.1	JD	10.4	43.4	ug/m3
Q1726-06DL	IA-B2-3-03312025I	Air	m/p-Xylene	68.2	JD	18.2	86.9	ug/m3
Q1726-06DL	IA-B2-3-03312025I	Air	o-Xylene	26.1	JD	10.4	43.4	ug/m3
Q1726-06DL	IA-B2-3-03312025I	Air	1,3,5-Trimethylbenzene	13.3	JD	10.8	49.2	ug/m3
Q1726-06DL	IA-B2-3-03312025I	Air	1,2,4-Trimethylbenzene	37.4	JD	7.87	49.2	ug/m3
			Total Voc :	2720				
			Total Concentration:	2720				
Client ID:	**IA-B2-3-03312025DL2**							
Q1726-06DL2	IA-B2-3-03312025I	Air	Ethanol	546	DQ	60.3	94.2	ug/m3
Q1726-06DL2	IA-B2-3-03312025I	Air	Isopropyl Alcohol	86.3	JD	17.0	123	ug/m3
Q1726-06DL2	IA-B2-3-03312025I	Air	Acetone	1240	D	57.0	119	ug/m3
Q1726-06DL2	IA-B2-3-03312025I	Air	Toluene	53.1	JD	41.5	188	ug/m3
			Total Voc :	1920				
			Total Concentration:	1920				
Client ID:	**IA-B2-4-03312025**							
Q1726-07	IA-B2-4-03312025	Air	Dichlorodifluoromethane	2.52		1.04	2.47	ug/m3
Q1726-07	IA-B2-4-03312025	Air	Ethanol	603	EQ	0.60	0.94	ug/m3
Q1726-07	IA-B2-4-03312025	Air	Chloromethane	1.24		0.21	1.03	ug/m3
Q1726-07	IA-B2-4-03312025	Air	Trichlorofluoromethane	1.52	J	0.90	2.81	ug/m3
Q1726-07	IA-B2-4-03312025	Air	tert-Butyl alcohol	2.24		0.58	1.52	ug/m3
Q1726-07	IA-B2-4-03312025	Air	Heptane	17.2		0.45	2.05	ug/m3
Q1726-07	IA-B2-4-03312025	Air	Isopropyl Alcohol	84.3	E	0.17	1.23	ug/m3
Q1726-07	IA-B2-4-03312025	Air	Acetone	404	E	0.57	1.19	ug/m3
Q1726-07	IA-B2-4-03312025	Air	Methylene Chloride	9.38		0.66	1.74	ug/m3
Q1726-07	IA-B2-4-03312025	Air	Cyclohexane	4.47		0.76	1.72	ug/m3
Q1726-07	IA-B2-4-03312025	Air	2-Butanone	3.54		0.35	1.47	ug/m3
Q1726-07	IA-B2-4-03312025	Air	Carbon Tetrachloride	0.57		0.060	0.19	ug/m3
Q1726-07	IA-B2-4-03312025	Air	Chloroform	0.54	J	0.39	2.44	ug/m3
Q1726-07	IA-B2-4-03312025	Air	2,2,4-Trimethylpentane	49.5		0.47	2.34	ug/m3
Q1726-07	IA-B2-4-03312025	Air	Benzene	3.51		0.29	1.60	ug/m3
Q1726-07	IA-B2-4-03312025	Air	1,2-Dichloroethane	0.85	J	0.36	2.02	ug/m3
Q1726-07	IA-B2-4-03312025	Air	4-Methyl-2-Pentanone	1.72	J	0.37	2.05	ug/m3
Q1726-07	IA-B2-4-03312025	Air	Toluene	99.9	E	0.41	1.88	ug/m3
Q1726-07	IA-B2-4-03312025	Air	Tetrachloroethene	0.88		0.14	0.20	ug/m3
Q1726-07	IA-B2-4-03312025	Air	Ethyl Benzene	22.1		0.52	2.17	ug/m3
Q1726-07	IA-B2-4-03312025	Air	m/p-Xylene	76.0		0.91	4.34	ug/m3
Q1726-07	IA-B2-4-03312025	Air	o-Xylene	30.0		0.52	2.17	ug/m3

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

Hit Summary Sheet
SW-846

SDG No.: Q1726

Client: Woodard & Curran

Sample ID	Client ID	Matrix	Parameter		Concentration	C	MDL	RDL	Units
Q1726-07	IA-B2-4-03312025	Air	Styrene		1.58	J	0.47	2.13	ug/m3
Q1726-07	IA-B2-4-03312025	Air	2-Chlorotoluene		7.25		0.57	2.59	ug/m3
Q1726-07	IA-B2-4-03312025	Air	1,3,5-Trimethylbenzene		16.2		0.54	2.46	ug/m3
Q1726-07	IA-B2-4-03312025	Air	1,2,4-Trimethylbenzene		44.3		0.39	2.46	ug/m3
Q1726-07	IA-B2-4-03312025	Air	1,4-Dichlorobenzene		2.16	J	0.30	3.01	ug/m3
Q1726-07	IA-B2-4-03312025	Air	Naphthalene		3.04		0.42	0.52	ug/m3
Q1726-07	IA-B2-4-03312025	Air	4-Ethyltoluene		13.3		0.59	2.46	ug/m3
Q1726-07	IA-B2-4-03312025	Air	Hexane		13.4		0.39	1.76	ug/m3
			Total Voc :		1520				
Q1726-07	IA-B2-4-03312025	Air	1-Propanol	*	5.00	J	0	0	ppbv
Q1726-07	IA-B2-4-03312025	Air	Butane	*	8.90	J	0	0	ppbv
Q1726-07	IA-B2-4-03312025	Air	Pentane, 2-methyl-	*	4.10	J	0	0	ppbv
Q1726-07	IA-B2-4-03312025	Air	Cyclohexane, methyl-	*	5.00	J	0	0	ppbv
Q1726-07	IA-B2-4-03312025	Air	Octane	*	5.10	J	0	0	ppbv
Q1726-07	IA-B2-4-03312025	Air	Pentane, 2,3,4-trimethyl-	*	7.10	J	0	0	ppbv
Q1726-07	IA-B2-4-03312025	Air	Hexane, 3-methyl-	*	5.80	J	0	0	ppbv
Q1726-07	IA-B2-4-03312025	Air	Hexane, 2-methyl-	*	5.40	J	0	0	ppbv
Q1726-07	IA-B2-4-03312025	Air	11H-Dibenzo[b,e][1,4]diazepin	*	4.30	J	0	0	ppbv
Q1726-07	IA-B2-4-03312025	Air	4-Methylpentyl pentanoate	*	4.70	J	0	0	ppbv
Q1726-07	IA-B2-4-03312025	Air	Chlorodifluoromethane	*	0.22	J	0.090	0.50	ppbv
Q1726-07	IA-B2-4-03312025	Air	Naphthalene,2-methyl-	*	0.21	J	0.15	0.50	ppbv
Q1726-07	IA-B2-4-03312025	Air	Propene	*	2.90	J	0.15	0.50	ppbv
Q1726-07	IA-B2-4-03312025	Air	Isopropylbenzene	*	0.50	J	0.090	0.50	ppbv
Q1726-07	IA-B2-4-03312025	Air	n-propylbenzene	*	1.70	J	0.080	0.50	ppbv
Q1726-07	IA-B2-4-03312025	Air	sec-Butylbenzene	*	0.12	J	0.090	0.50	ppbv
Q1726-07	IA-B2-4-03312025	Air	p-Isopropyltoluene	*	0.55	J	0.090	0.50	ppbv
Q1726-07	IA-B2-4-03312025	Air	n-Butylbenzene	*	0.54	J	0.080	0.50	ppbv
			Total Tics :		62.1				
			Total Concentration:		1580				
Client ID:	**IA-B2-4-03312025DL**								
Q1726-07DL	IA-B2-4-03312025I	Air	Ethanol		716	EDQ	12.1	18.8	ug/m3
Q1726-07DL	IA-B2-4-03312025I	Air	Heptane		20.9	JD	9.02	41.0	ug/m3
Q1726-07DL	IA-B2-4-03312025I	Air	Isopropyl Alcohol		93.2	D	3.44	24.6	ug/m3
Q1726-07DL	IA-B2-4-03312025I	Air	Acetone		1400	ED	11.4	23.8	ug/m3
Q1726-07DL	IA-B2-4-03312025I	Air	2,2,4-Trimethylpentane		50.9	D	9.34	46.7	ug/m3
Q1726-07DL	IA-B2-4-03312025I	Air	Toluene		103	D	8.29	37.7	ug/m3
Q1726-07DL	IA-B2-4-03312025I	Air	Ethyl Benzene		22.1	JD	10.4	43.4	ug/m3

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

Hit Summary Sheet
SW-846

SDG No.: Q1726

Client: Woodard & Curran

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q1726-07DL	IA-B2-4-03312025I	Air	m/p-Xylene	76.9	JD	18.2	86.9	ug/m3
Q1726-07DL	IA-B2-4-03312025I	Air	o-Xylene	29.5	JD	10.4	43.4	ug/m3
Q1726-07DL	IA-B2-4-03312025I	Air	1,3,5-Trimethylbenzene	17.7	JD	10.8	49.2	ug/m3
Q1726-07DL	IA-B2-4-03312025I	Air	1,2,4-Trimethylbenzene	46.2	JD	7.87	49.2	ug/m3
Q1726-07DL	IA-B2-4-03312025I	Air	4-Ethyltoluene	12.8	JD	11.8	49.2	ug/m3
			Total Voc :	2590				
			Total Concentration:	2590				
Client ID:	**IA-B2-4-03312025DL2**							
Q1726-07DL2	IA-B2-4-03312025I	Air	Ethanol	509	DQ	24.1	37.7	ug/m3
Q1726-07DL2	IA-B2-4-03312025I	Air	Isopropyl Alcohol	72.8	D	6.88	49.2	ug/m3
Q1726-07DL2	IA-B2-4-03312025I	Air	Acetone	1120	D	22.8	47.5	ug/m3
Q1726-07DL2	IA-B2-4-03312025I	Air	2,2,4-Trimethylpentane	33.6	JD	18.7	93.4	ug/m3
Q1726-07DL2	IA-B2-4-03312025I	Air	Toluene	69.0	JD	16.6	75.4	ug/m3
Q1726-07DL2	IA-B2-4-03312025I	Air	m/p-Xylene	53.0	JD	36.5	174	ug/m3
			Total Voc :	1850				
			Total Concentration:	1850				

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

Project : US EPA Riverside Industrial Park Superfund Site

Sampling Date : 04/01/25

Field Id Number : IA-DUP-3-03312025

Analysis Date : 04/17/25

Laboratory Id Number : Q1726-01

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	0.48	J	2.37		
Ethanol	64-17-5	46.07	250	E	471		
Chloromethane	74-87-3	50.49	0.58		1.2		
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		
Bromoethene	593-60-2	106.9	0.12	U	0.52		
tert-Butyl alcohol	75-65-0	74.12	0.53		1.61		
Heptane	142-82-5	100.2	8.3		34.0		
Isopropyl Alcohol	67-63-0	60.1	28.5	E	70.1		
1,1-Dichloroethene	75-35-4	96.94	0.14	U	0.56		
Acetone	67-64-1	58.08	150	E	356		
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	2.1		7.3		
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	2		6.88		
2-Butanone	78-93-3	72.11	1.1		3.24		
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	18.2	E	85.0		
Benzene	71-43-2	78.11	1.7		5.43		
1,2-Dichloroethane	107-06-2	98.96	0.16	J	0.65		
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	0.09	U	0.37		
Toluene	108-88-3	92.14	49.2	E	185		

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

Project : US EPA Riverside Industrial Park Superfund Site

Sampling Date : 04/01/25

Field Id Number : IA-DUP-3-03312025

Analysis Date : 04/17/25

Laboratory Id Number : Q1726-01

Target Analyts : Air Results

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		
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	0.1		0.68		
Chlorobenzene	108-90-7	112.6	0.08	U	0.37		
Ethyl Benzene	100-41-4	106.2	11.1		48.2		
m/p-Xylene	179601-23-1	106.2	38.4	E	166		
o-Xylene	95-47-6	106.2	15.5	E	67.3		
Styrene	100-42-5	104.1	0.35	J	1.49		
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	0.96		4.97		
1,3,5-Trimethylbenzene	108-67-8	120.2	7		34.4		
1,2,4-Trimethylbenzene	95-63-6	120.2	19.3	E	94.9		
1,3-Dichlorobenzene	541-73-1	147	0.08	U	0.48		
1,4-Dichlorobenzene	106-46-7	147	0.26	J	1.56		
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	2.3		12.1		
1,3-Butadiene	106-99-0	54.09	0.13	U	0.29		
4-Ethyltoluene	622-96-8	120.2	5.7		28.0		
Hexane	110-54-3	86.17	4.7		16.6		
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		

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

Project : US EPA Riverside Industrial Park Superfund Site

Sampling Date : 04/01/25

Field Id Number : IA-DUP-3-03312025DL

Analysis Date : 04/18/25

Laboratory Id Number : Q1726-01DL

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	4.2	UD	20.8		
Ethanol	64-17-5	46.07	330	ED	621		
Chloromethane	74-87-3	50.49	2	UD	4.13		
Vinyl Chloride	75-01-4	62.5	0.28	UD	0.72		
Bromomethane	74-83-9	94.94	2.8	UD	10.9		
Chloroethane	75-00-3	64.52	3.4	UD	8.97		
Tetrahydrofuran	109-99-9	72.11	2.6	UD	7.67		
Trichlorofluoromethane	75-69-4	137.4	3.2	UD	18.0		
Dichlorotetrafluoroethane	76-14-2	170.9	1.8	UD	12.6		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	3.2	UD	24.5		
Bromoethene	593-60-2	106.9	2.4	UD	10.5		
tert-Butyl alcohol	75-65-0	74.12	3.8	UD	11.5		
Heptane	142-82-5	100.2	9.6	JD	39.3		
Isopropyl Alcohol	67-63-0	60.1	35.9	D	88.2		
1,1-Dichloroethene	75-35-4	96.94	2.8	UD	11.1		
Acetone	67-64-1	58.08	630	ED	1496		
Carbon Disulfide	75-15-0	76.14	3.2	UD	9.97		
Methyl tert-Butyl Ether	1634-04-4	88.15	2.4	UD	8.65		
Methylene Chloride	75-09-2	84.94	3.8	UD	13.2		
trans-1,2-Dichloroethene	156-60-5	96.94	3.8	UD	15.1		
1,1-Dichloroethane	75-34-3	98.96	2.6	UD	10.5		
Cyclohexane	110-82-7	84.16	4.4	UD	15.2		
2-Butanone	78-93-3	72.11	2.4	UD	7.08		
Carbon Tetrachloride	56-23-5	153.8	0.22	UD	1.38		
cis-1,2-Dichloroethene	156-59-2	96.94	1.8	UD	7.14		
Chloroform	67-66-3	119.4	1.7	UD	8.3		
1,1,1-Trichloroethane	71-55-6	133.4	0.19	UD	1.04		
2,2,4-Trimethylpentane	540-84-1	114.2	20.4	D	95.3		
Benzene	71-43-2	78.11	2.3	JD	7.35		
1,2-Dichloroethane	107-06-2	98.96	1.8	UD	7.29		
Trichloroethene	79-01-6	131.4	0.34	UD	1.83		
1,2-Dichloropropane	78-87-5	113	2.2	UD	10.2		
Bromodichloromethane	75-27-4	163.8	1.5	UD	10.0		
4-Methyl-2-Pentanone	108-10-1	100.2	1.9	UD	7.79		
Toluene	108-88-3	92.14	57.5	D	216		

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

Project : US EPA Riverside Industrial Park Superfund Site **Sampling Date :** 04/01/25

Field Id Number : IA-DUP-3-03312025DL **Analysis Date :** 04/18/25

Laboratory Id Number : Q1726-01DL **Target Analyts :** Air Results

t-1,3-Dichloropropene	10061-02-6	111	1.2	UD	5.45		
cis-1,3-Dichloropropene	10061-01-5	111	1.3	UD	5.9		
1,1,2-Trichloroethane	79-00-5	133.4	1.4	UD	7.64		
Dibromochloromethane	124-48-1	208.3	1.3	UD	11.1		
1,2-Dibromoethane	106-93-4	187.9	1.4	UD	10.8		
Tetrachloroethene	127-18-4	165.8	0.3	UD	2.03		
Chlorobenzene	108-90-7	112.6	1.5	UD	6.91		
Ethyl Benzene	100-41-4	106.2	12.1	D	52.6		
m/p-Xylene	179601-23-1	106.2	44.3	D	192		
o-Xylene	95-47-6	106.2	17.2	D	74.7		
Styrene	100-42-5	104.1	2.2	UD	9.37		
Bromoform	75-25-2	252.8	1.1	UD	11.4		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	0.22	UD	1.51		
2-Chlorotoluene	95-49-8	126.6	2.2	UD	11.4		
1,3,5-Trimethylbenzene	108-67-8	120.2	7.5	JD	36.9		
1,2,4-Trimethylbenzene	95-63-6	120.2	22.6	D	111		
1,3-Dichlorobenzene	541-73-1	147	1.6	UD	9.62		
1,4-Dichlorobenzene	106-46-7	147	1.1	UD	6.61		
1,2-Dichlorobenzene	95-50-1	147	1.5	UD	9.02		
1,2,4-Trichlorobenzene	120-82-1	181.5	1.7	UD	12.6		
Hexachloro-1,3-Butadiene	87-68-3	260.8	1.7	UD	18.1		
Naphthalene	91-20-3	128.17	1.5	UD	7.86		
1,3-Butadiene	106-99-0	54.09	2.6	UD	5.75		
4-Ethyltoluene	622-96-8	120.2	6.5	JD	32.0		
Hexane	110-54-3	86.17	2.2	UD	7.75		
Allyl Chloride	107-05-1	76.53	3	UD	9.39		
1,4-Dioxane	123-91-1	88.12	4.2	UD	15.1		
Methyl Methacrylate	80-62-6	100.117	1.7	UD	6.96		

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

Project : US EPA Riverside Industrial Park Superfund Site

Sampling Date : 04/01/25

Field Id Number : IA-DUP-3-03312025DL2

Analysis Date : 04/18/25

Laboratory Id Number : Q1726-01DL2

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	8.4	UD	41.5		
Ethanol	64-17-5	46.07	220	D	414		
Chloromethane	74-87-3	50.49	3.9	UD	8.05		
Vinyl Chloride	75-01-4	62.5	0.56	UD	1.43		
Bromomethane	74-83-9	94.94	5.6	UD	21.7		
Chloroethane	75-00-3	64.52	6.8	UD	17.9		
Tetrahydrofuran	109-99-9	72.11	5.2	UD	15.3		
Trichlorofluoromethane	75-69-4	137.4	6.4	UD	36.0		
Dichlorotetrafluoroethane	76-14-2	170.9	3.5	UD	24.5		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	6.4	UD	49.0		
Bromoethene	593-60-2	106.9	4.8	UD	21.0		
tert-Butyl alcohol	75-65-0	74.12	7.6	UD	23.0		
Heptane	142-82-5	100.2	6.8	JD	27.9		
Isopropyl Alcohol	67-63-0	60.1	29.3	D	72.0		
1,1-Dichloroethene	75-35-4	96.94	5.6	UD	22.2		
Acetone	67-64-1	58.08	490	D	1163		
Carbon Disulfide	75-15-0	76.14	6.4	UD	19.9		
Methyl tert-Butyl Ether	1634-04-4	88.15	4.8	UD	17.3		
Methylene Chloride	75-09-2	84.94	7.6	UD	26.4		
trans-1,2-Dichloroethene	156-60-5	96.94	7.6	UD	30.1		
1,1-Dichloroethane	75-34-3	98.96	5.2	UD	21.0		
Cyclohexane	110-82-7	84.16	8.8	UD	30.3		
2-Butanone	78-93-3	72.11	4.8	UD	14.2		
Carbon Tetrachloride	56-23-5	153.8	0.44	UD	2.77		
cis-1,2-Dichloroethene	156-59-2	96.94	3.6	UD	14.3		
Chloroform	67-66-3	119.4	3.3	UD	16.1		
1,1,1-Trichloroethane	71-55-6	133.4	0.38	UD	2.07		
2,2,4-Trimethylpentane	540-84-1	114.2	12.8	JD	59.8		
Benzene	71-43-2	78.11	3.5	UD	11.2		
1,2-Dichloroethane	107-06-2	98.96	3.6	UD	14.6		
Trichloroethene	79-01-6	131.4	0.68	UD	3.65		
1,2-Dichloropropane	78-87-5	113	4.4	UD	20.3		
Bromodichloromethane	75-27-4	163.8	3.1	UD	20.8		
4-Methyl-2-Pentanone	108-10-1	100.2	3.7	UD	15.2		
Toluene	108-88-3	92.14	37.8	D	142		

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

Project : US EPA Riverside Industrial Park Superfund Site **Sampling Date :** 04/01/25

Field Id Number : IA-DUP-3-03312025DL2 **Analysis Date :** 04/18/25

Laboratory Id Number : Q1726-01DL2 **Target Analyts :** Air Results

t-1,3-Dichloropropene	10061-02-6	111	2.4	UD	10.9		
cis-1,3-Dichloropropene	10061-01-5	111	2.6	UD	11.8		
1,1,2-Trichloroethane	79-00-5	133.4	2.8	UD	15.3		
Dibromochloromethane	124-48-1	208.3	2.6	UD	22.2		
1,2-Dibromoethane	106-93-4	187.9	2.9	UD	22.3		
Tetrachloroethene	127-18-4	165.8	0.6	UD	4.07		
Chlorobenzene	108-90-7	112.6	3	UD	13.8		
Ethyl Benzene	100-41-4	106.2	8	JD	34.8		
m/p-Xylene	179601-23-1	106.2	28.6	JD	124		
o-Xylene	95-47-6	106.2	11.4	JD	49.5		
Styrene	100-42-5	104.1	4.4	UD	18.7		
Bromoform	75-25-2	252.8	2.3	UD	23.8		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	0.44	UD	3.02		
2-Chlorotoluene	95-49-8	126.6	4.4	UD	22.8		
1,3,5-Trimethylbenzene	108-67-8	120.2	5.2	JD	25.6		
1,2,4-Trimethylbenzene	95-63-6	120.2	14.4	JD	70.8		
1,3-Dichlorobenzene	541-73-1	147	3.2	UD	19.2		
1,4-Dichlorobenzene	106-46-7	147	2.1	UD	12.6		
1,2-Dichlorobenzene	95-50-1	147	3	UD	18.0		
1,2,4-Trichlorobenzene	120-82-1	181.5	3.4	UD	25.2		
Hexachloro-1,3-Butadiene	87-68-3	260.8	3.4	UD	36.3		
Naphthalene	91-20-3	128.17	3	UD	15.7		
1,3-Butadiene	106-99-0	54.09	5.2	UD	11.5		
4-Ethyltoluene	622-96-8	120.2	4.8	UD	23.6		
Hexane	110-54-3	86.17	4.4	UD	15.5		
Allyl Chloride	107-05-1	76.53	6	UD	18.8		
1,4-Dioxane	123-91-1	88.12	8.4	UD	30.3		
Methyl Methacrylate	80-62-6	100.117	3.4	UD	13.9		

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

Project : US EPA Riverside Industrial Park Superfund Site

Sampling Date : 04/01/25

Field Id Number : IA-B2-6-03312025

Analysis Date : 04/17/25

Laboratory Id Number : Q1726-02

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	0.49	J	2.42		
Ethanol	64-17-5	46.07	240	E	452		
Chloromethane	74-87-3	50.49	4.9		10.1		
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	0.45	J	1.33		
Trichlorofluoromethane	75-69-4	137.4	0.23	J	1.29		
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		
Bromoethene	593-60-2	106.9	0.12	U	0.52		
tert-Butyl alcohol	75-65-0	74.12	1.1		3.33		
Heptane	142-82-5	100.2	6.6		27.0		
Isopropyl Alcohol	67-63-0	60.1	24.7	E	60.7		
1,1-Dichloroethene	75-35-4	96.94	0.14	U	0.56		
Acetone	67-64-1	58.08	130	E	308		
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	7		24.3		
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	1.9		5.6		
Carbon Tetrachloride	56-23-5	153.8	0.1		0.63		
cis-1,2-Dichloroethene	156-59-2	96.94	0.09	U	0.36		
Chloroform	67-66-3	119.4	0.37	J	1.81		
1,1,1-Trichloroethane	71-55-6	133.4	0.07		0.38		
2,2,4-Trimethylpentane	540-84-1	114.2	14.5		67.7		
Benzene	71-43-2	78.11	1.7		5.43		
1,2-Dichloroethane	107-06-2	98.96	0.17	J	0.69		
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	0.09	U	0.37		
Toluene	108-88-3	92.14	39.7	E	149		

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

Project : US EPA Riverside Industrial Park Superfund Site **Sampling Date :** 04/01/25

Field Id Number : IA-B2-6-03312025 **Analysis Date :** 04/17/25

Laboratory Id Number : Q1726-02 **Target Analyts :** Air Results

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		
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	0.11		0.75		
Chlorobenzene	108-90-7	112.6	0.08	U	0.37		
Ethyl Benzene	100-41-4	106.2	8.6		37.4		
m/p-Xylene	179601-23-1	106.2	29.5		128		
o-Xylene	95-47-6	106.2	11.6		50.4		
Styrene	100-42-5	104.1	0.32	J	1.36		
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	0.89		4.61		
1,3,5-Trimethylbenzene	108-67-8	120.2	5.3		26.1		
1,2,4-Trimethylbenzene	95-63-6	120.2	14.9		73.2		
1,3-Dichlorobenzene	541-73-1	147	0.08	U	0.48		
1,4-Dichlorobenzene	106-46-7	147	0.22	J	1.32		
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	1.7		8.91		
1,3-Butadiene	106-99-0	54.09	0.13	U	0.29		
4-Ethyltoluene	622-96-8	120.2	4.4		21.6		
Hexane	110-54-3	86.17	7		24.7		
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		

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

Project : US EPA Riverside Industrial Park Superfund Site

Sampling Date : 04/01/25

Field Id Number : IA-B2-6-03312025DL

Analysis Date : 04/18/25

Laboratory Id Number : Q1726-02DL

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	4.2	UD	20.8		
Ethanol	64-17-5	46.07	280	D	527		
Chloromethane	74-87-3	50.49	6.7	JD	13.8		
Vinyl Chloride	75-01-4	62.5	0.28	UD	0.72		
Bromomethane	74-83-9	94.94	2.8	UD	10.9		
Chloroethane	75-00-3	64.52	3.4	UD	8.97		
Tetrahydrofuran	109-99-9	72.11	2.6	UD	7.67		
Trichlorofluoromethane	75-69-4	137.4	3.2	UD	18.0		
Dichlorotetrafluoroethane	76-14-2	170.9	1.8	UD	12.6		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	3.2	UD	24.5		
Bromoethene	593-60-2	106.9	2.4	UD	10.5		
tert-Butyl alcohol	75-65-0	74.12	3.8	UD	11.5		
Heptane	142-82-5	100.2	7.5	JD	30.7		
Isopropyl Alcohol	67-63-0	60.1	30.4	D	74.7		
1,1-Dichloroethene	75-35-4	96.94	2.8	UD	11.1		
Acetone	67-64-1	58.08	330	ED	783		
Carbon Disulfide	75-15-0	76.14	3.2	UD	9.97		
Methyl tert-Butyl Ether	1634-04-4	88.15	2.4	UD	8.65		
Methylene Chloride	75-09-2	84.94	3.8	UD	13.2		
trans-1,2-Dichloroethene	156-60-5	96.94	3.8	UD	15.1		
1,1-Dichloroethane	75-34-3	98.96	2.6	UD	10.5		
Cyclohexane	110-82-7	84.16	4.4	UD	15.2		
2-Butanone	78-93-3	72.11	2.4	JD	7.08		
Carbon Tetrachloride	56-23-5	153.8	0.22	UD	1.38		
cis-1,2-Dichloroethene	156-59-2	96.94	1.8	UD	7.14		
Chloroform	67-66-3	119.4	1.7	UD	8.3		
1,1,1-Trichloroethane	71-55-6	133.4	0.19	UD	1.04		
2,2,4-Trimethylpentane	540-84-1	114.2	15.6	D	72.9		
Benzene	71-43-2	78.11	2.5	JD	7.99		
1,2-Dichloroethane	107-06-2	98.96	1.8	UD	7.29		
Trichloroethene	79-01-6	131.4	0.34	UD	1.83		
1,2-Dichloropropane	78-87-5	113	2.2	UD	10.2		
Bromodichloromethane	75-27-4	163.8	1.5	UD	10.0		
4-Methyl-2-Pentanone	108-10-1	100.2	1.9	UD	7.79		
Toluene	108-88-3	92.14	45.3	D	170		

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

Project : US EPA Riverside Industrial Park Superfund Site **Sampling Date :** 04/01/25

Field Id Number : IA-B2-6-03312025DL **Analysis Date :** 04/18/25

Laboratory Id Number : Q1726-02DL **Target Analyts :** Air Results

t-1,3-Dichloropropene	10061-02-6	111	1.2	UD	5.45		
cis-1,3-Dichloropropene	10061-01-5	111	1.3	UD	5.9		
1,1,2-Trichloroethane	79-00-5	133.4	1.4	UD	7.64		
Dibromochloromethane	124-48-1	208.3	1.3	UD	11.1		
1,2-Dibromoethane	106-93-4	187.9	1.4	UD	10.8		
Tetrachloroethene	127-18-4	165.8	0.3	UD	2.03		
Chlorobenzene	108-90-7	112.6	1.5	UD	6.91		
Ethyl Benzene	100-41-4	106.2	9.1	JD	39.5		
m/p-Xylene	179601-23-1	106.2	33.8	D	146		
o-Xylene	95-47-6	106.2	13.4	D	58.2		
Styrene	100-42-5	104.1	2.2	UD	9.37		
Bromoform	75-25-2	252.8	1.1	UD	11.4		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	0.22	UD	1.51		
2-Chlorotoluene	95-49-8	126.6	2.2	UD	11.4		
1,3,5-Trimethylbenzene	108-67-8	120.2	5.4	JD	26.6		
1,2,4-Trimethylbenzene	95-63-6	120.2	17.1	D	84.1		
1,3-Dichlorobenzene	541-73-1	147	1.6	UD	9.62		
1,4-Dichlorobenzene	106-46-7	147	1.1	UD	6.61		
1,2-Dichlorobenzene	95-50-1	147	1.5	UD	9.02		
1,2,4-Trichlorobenzene	120-82-1	181.5	1.7	UD	12.6		
Hexachloro-1,3-Butadiene	87-68-3	260.8	1.7	UD	18.1		
Naphthalene	91-20-3	128.17	1.5	UD	7.86		
1,3-Butadiene	106-99-0	54.09	2.6	UD	5.75		
4-Ethyltoluene	622-96-8	120.2	4.7	JD	23.1		
Hexane	110-54-3	86.17	2.2	UD	7.75		
Allyl Chloride	107-05-1	76.53	3	UD	9.39		
1,4-Dioxane	123-91-1	88.12	4.2	UD	15.1		
Methyl Methacrylate	80-62-6	100.117	1.7	UD	6.96		

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

Project : US EPA Riverside Industrial Park Superfund Site

Sampling Date : 04/01/25

Field Id Number : IA-B2-6-03312025DL2

Analysis Date : 04/18/25

Laboratory Id Number : Q1726-02DL2

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	8.4	UD	41.5		
Ethanol	64-17-5	46.07	210	D	395		
Chloromethane	74-87-3	50.49	5	JD	10.3		
Vinyl Chloride	75-01-4	62.5	0.56	UD	1.43		
Bromomethane	74-83-9	94.94	5.6	UD	21.7		
Chloroethane	75-00-3	64.52	6.8	UD	17.9		
Tetrahydrofuran	109-99-9	72.11	5.2	UD	15.3		
Trichlorofluoromethane	75-69-4	137.4	6.4	UD	36.0		
Dichlorotetrafluoroethane	76-14-2	170.9	3.5	UD	24.5		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	6.4	UD	49.0		
Bromoethene	593-60-2	106.9	4.8	UD	21.0		
tert-Butyl alcohol	75-65-0	74.12	7.6	UD	23.0		
Heptane	142-82-5	100.2	5.4	JD	22.1		
Isopropyl Alcohol	67-63-0	60.1	24.5	D	60.2		
1,1-Dichloroethene	75-35-4	96.94	5.6	UD	22.2		
Acetone	67-64-1	58.08	240	D	570		
Carbon Disulfide	75-15-0	76.14	6.4	UD	19.9		
Methyl tert-Butyl Ether	1634-04-4	88.15	4.8	UD	17.3		
Methylene Chloride	75-09-2	84.94	7.6	UD	26.4		
trans-1,2-Dichloroethene	156-60-5	96.94	7.6	UD	30.1		
1,1-Dichloroethane	75-34-3	98.96	5.2	UD	21.0		
Cyclohexane	110-82-7	84.16	8.8	UD	30.3		
2-Butanone	78-93-3	72.11	4.8	UD	14.2		
Carbon Tetrachloride	56-23-5	153.8	0.44	UD	2.77		
cis-1,2-Dichloroethene	156-59-2	96.94	3.6	UD	14.3		
Chloroform	67-66-3	119.4	3.3	UD	16.1		
1,1,1-Trichloroethane	71-55-6	133.4	0.38	UD	2.07		
2,2,4-Trimethylpentane	540-84-1	114.2	9.2	JD	43.0		
Benzene	71-43-2	78.11	3.5	UD	11.2		
1,2-Dichloroethane	107-06-2	98.96	3.6	UD	14.6		
Trichloroethene	79-01-6	131.4	0.68	UD	3.65		
1,2-Dichloropropane	78-87-5	113	4.4	UD	20.3		
Bromodichloromethane	75-27-4	163.8	3.1	UD	20.8		
4-Methyl-2-Pentanone	108-10-1	100.2	3.7	UD	15.2		
Toluene	108-88-3	92.14	27.4	D	103		

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

Project : US EPA Riverside Industrial Park Superfund Site **Sampling Date :** 04/01/25

Field Id Number : IA-B2-6-03312025DL2 **Analysis Date :** 04/18/25

Laboratory Id Number : Q1726-02DL2 **Target Analyts :** Air Results

t-1,3-Dichloropropene	10061-02-6	111	2.4	UD	10.9		
cis-1,3-Dichloropropene	10061-01-5	111	2.6	UD	11.8		
1,1,2-Trichloroethane	79-00-5	133.4	2.8	UD	15.3		
Dibromochloromethane	124-48-1	208.3	2.6	UD	22.2		
1,2-Dibromoethane	106-93-4	187.9	2.9	UD	22.3		
Tetrachloroethene	127-18-4	165.8	0.6	UD	4.07		
Chlorobenzene	108-90-7	112.6	3	UD	13.8		
Ethyl Benzene	100-41-4	106.2	5.4	JD	23.5		
m/p-Xylene	179601-23-1	106.2	19.8	JD	86		
o-Xylene	95-47-6	106.2	7.4	JD	32.1		
Styrene	100-42-5	104.1	4.4	UD	18.7		
Bromoform	75-25-2	252.8	2.3	UD	23.8		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	0.44	UD	3.02		
2-Chlorotoluene	95-49-8	126.6	4.4	UD	22.8		
1,3,5-Trimethylbenzene	108-67-8	120.2	4.4	UD	21.6		
1,2,4-Trimethylbenzene	95-63-6	120.2	9.7	JD	47.7		
1,3-Dichlorobenzene	541-73-1	147	3.2	UD	19.2		
1,4-Dichlorobenzene	106-46-7	147	2.1	UD	12.6		
1,2-Dichlorobenzene	95-50-1	147	3	UD	18.0		
1,2,4-Trichlorobenzene	120-82-1	181.5	3.4	UD	25.2		
Hexachloro-1,3-Butadiene	87-68-3	260.8	3.4	UD	36.3		
Naphthalene	91-20-3	128.17	3	UD	15.7		
1,3-Butadiene	106-99-0	54.09	5.2	UD	11.5		
4-Ethyltoluene	622-96-8	120.2	4.8	UD	23.6		
Hexane	110-54-3	86.17	4.4	UD	15.5		
Allyl Chloride	107-05-1	76.53	6	UD	18.8		
1,4-Dioxane	123-91-1	88.12	8.4	UD	30.3		
Methyl Methacrylate	80-62-6	100.117	3.4	UD	13.9		

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

Project : US EPA Riverside Industrial Park Superfund Site

Sampling Date : 04/01/25

Field Id Number : IA-B2-2-03312025

Analysis Date : 04/17/25

Laboratory Id Number : Q1726-03

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	0.47	J	2.32		
Ethanol	64-17-5	46.07	230	E	433		
Chloromethane	74-87-3	50.49	1.4		2.89		
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	0.27	J	0.8		
Trichlorofluoromethane	75-69-4	137.4	0.25	J	1.4		
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		
Bromoethene	593-60-2	106.9	0.12	U	0.52		
tert-Butyl alcohol	75-65-0	74.12	0.74		2.24		
Heptane	142-82-5	100.2	3		12.3		
Isopropyl Alcohol	67-63-0	60.1	43.7	E	107		
1,1-Dichloroethene	75-35-4	96.94	0.14	U	0.56		
Acetone	67-64-1	58.08	180	E	427		
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	5.4		18.8		
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	0.97		3.34		
2-Butanone	78-93-3	72.11	1.5		4.42		
Carbon Tetrachloride	56-23-5	153.8	0.09		0.57		
cis-1,2-Dichloroethene	156-59-2	96.94	0.09	U	0.36		
Chloroform	67-66-3	119.4	0.13	J	0.63		
1,1,1-Trichloroethane	71-55-6	133.4	0.01	U	0.05		
2,2,4-Trimethylpentane	540-84-1	114.2	8.4		39.2		
Benzene	71-43-2	78.11	0.9		2.88		
1,2-Dichloroethane	107-06-2	98.96	0.16	J	0.65		
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	0.09	U	0.37		
Toluene	108-88-3	92.14	18.7	E	70.5		

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

Project : US EPA Riverside Industrial Park Superfund Site **Sampling Date :** 04/01/25

Field Id Number : IA-B2-2-03312025 **Analysis Date :** 04/17/25

Laboratory Id Number : Q1726-03 **Target Analyts :** Air Results

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		
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	0.26		1.76		
Chlorobenzene	108-90-7	112.6	0.08	U	0.37		
Ethyl Benzene	100-41-4	106.2	3.6		15.6		
m/p-Xylene	179601-23-1	106.2	12.6		54.7		
o-Xylene	95-47-6	106.2	5		21.7		
Styrene	100-42-5	104.1	0.4	J	1.7		
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	0.52		2.69		
1,3,5-Trimethylbenzene	108-67-8	120.2	2.1		10.3		
1,2,4-Trimethylbenzene	95-63-6	120.2	5.8		28.5		
1,3-Dichlorobenzene	541-73-1	147	0.08	U	0.48		
1,4-Dichlorobenzene	106-46-7	147	0.1	J	0.6		
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	0.42		2.2		
1,3-Butadiene	106-99-0	54.09	0.13	U	0.29		
4-Ethyltoluene	622-96-8	120.2	1.8		8.85		
Hexane	110-54-3	86.17	4.3		15.2		
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		

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

Project : US EPA Riverside Industrial Park Superfund Site

Sampling Date : 04/01/25

Field Id Number : IA-B2-2-03312025DL

Analysis Date : 04/18/25

Laboratory Id Number : Q1726-03DL

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	4.2	UD	20.8		
Ethanol	64-17-5	46.07	270	D	508		
Chloromethane	74-87-3	50.49	3	JD	6.2		
Vinyl Chloride	75-01-4	62.5	0.28	UD	0.72		
Bromomethane	74-83-9	94.94	2.8	UD	10.9		
Chloroethane	75-00-3	64.52	3.4	UD	8.97		
Tetrahydrofuran	109-99-9	72.11	2.6	UD	7.67		
Trichlorofluoromethane	75-69-4	137.4	3.2	UD	18.0		
Dichlorotetrafluoroethane	76-14-2	170.9	1.8	UD	12.6		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	3.2	UD	24.5		
Bromoethene	593-60-2	106.9	2.4	UD	10.5		
tert-Butyl alcohol	75-65-0	74.12	3.8	UD	11.5		
Heptane	142-82-5	100.2	3.2	JD	13.1		
Isopropyl Alcohol	67-63-0	60.1	49.2	D	120		
1,1-Dichloroethene	75-35-4	96.94	2.8	UD	11.1		
Acetone	67-64-1	58.08	850	ED	2019		
Carbon Disulfide	75-15-0	76.14	3.2	UD	9.97		
Methyl tert-Butyl Ether	1634-04-4	88.15	2.4	UD	8.65		
Methylene Chloride	75-09-2	84.94	3.8	UD	13.2		
trans-1,2-Dichloroethene	156-60-5	96.94	3.8	UD	15.1		
1,1-Dichloroethane	75-34-3	98.96	2.6	UD	10.5		
Cyclohexane	110-82-7	84.16	4.4	UD	15.2		
2-Butanone	78-93-3	72.11	2.4	UD	7.08		
Carbon Tetrachloride	56-23-5	153.8	0.22	UD	1.38		
cis-1,2-Dichloroethene	156-59-2	96.94	1.8	UD	7.14		
Chloroform	67-66-3	119.4	1.7	UD	8.3		
1,1,1-Trichloroethane	71-55-6	133.4	0.19	UD	1.04		
2,2,4-Trimethylpentane	540-84-1	114.2	7.8	JD	36.4		
Benzene	71-43-2	78.11	1.7	UD	5.43		
1,2-Dichloroethane	107-06-2	98.96	1.8	UD	7.29		
Trichloroethene	79-01-6	131.4	0.34	UD	1.83		
1,2-Dichloropropane	78-87-5	113	2.2	UD	10.2		
Bromodichloromethane	75-27-4	163.8	1.5	UD	10.0		
4-Methyl-2-Pentanone	108-10-1	100.2	1.9	UD	7.79		
Toluene	108-88-3	92.14	17.8	D	67.1		

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

Project : US EPA Riverside Industrial Park Superfund Site **Sampling Date :** 04/01/25

Field Id Number : IA-B2-2-03312025DL **Analysis Date :** 04/18/25

Laboratory Id Number : Q1726-03DL **Target Analyts :** Air Results

t-1,3-Dichloropropene	10061-02-6	111	1.2	UD	5.45		
cis-1,3-Dichloropropene	10061-01-5	111	1.3	UD	5.9		
1,1,2-Trichloroethane	79-00-5	133.4	1.4	UD	7.64		
Dibromochloromethane	124-48-1	208.3	1.3	UD	11.1		
1,2-Dibromoethane	106-93-4	187.9	1.4	UD	10.8		
Tetrachloroethene	127-18-4	165.8	0.3	UD	2.03		
Chlorobenzene	108-90-7	112.6	1.5	UD	6.91		
Ethyl Benzene	100-41-4	106.2	3.5	JD	15.2		
m/p-Xylene	179601-23-1	106.2	12	JD	52.1		
o-Xylene	95-47-6	106.2	4.7	JD	20.4		
Styrene	100-42-5	104.1	2.2	UD	9.37		
Bromoform	75-25-2	252.8	1.1	UD	11.4		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	0.22	UD	1.51		
2-Chlorotoluene	95-49-8	126.6	2.2	UD	11.4		
1,3,5-Trimethylbenzene	108-67-8	120.2	2.2	UD	10.8		
1,2,4-Trimethylbenzene	95-63-6	120.2	5.8	JD	28.5		
1,3-Dichlorobenzene	541-73-1	147	1.6	UD	9.62		
1,4-Dichlorobenzene	106-46-7	147	1.1	UD	6.61		
1,2-Dichlorobenzene	95-50-1	147	1.5	UD	9.02		
1,2,4-Trichlorobenzene	120-82-1	181.5	1.7	UD	12.6		
Hexachloro-1,3-Butadiene	87-68-3	260.8	1.7	UD	18.1		
Naphthalene	91-20-3	128.17	1.5	UD	7.86		
1,3-Butadiene	106-99-0	54.09	2.6	UD	5.75		
4-Ethyltoluene	622-96-8	120.2	2.4	UD	11.8		
Hexane	110-54-3	86.17	2.2	UD	7.75		
Allyl Chloride	107-05-1	76.53	3	UD	9.39		
1,4-Dioxane	123-91-1	88.12	4.2	UD	15.1		
Methyl Methacrylate	80-62-6	100.117	1.7	UD	6.96		

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

Project : US EPA Riverside Industrial Park Superfund Site

Sampling Date : 04/01/25

Field Id Number : IA-B2-2-03312025DL2

Analysis Date : 04/18/25

Laboratory Id Number : Q1726-03DL2

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	21	UD	103		
Ethanol	64-17-5	46.07	250	D	471		
Chloromethane	74-87-3	50.49	9.8	UD	20.2		
Vinyl Chloride	75-01-4	62.5	1.4	UD	3.58		
Bromomethane	74-83-9	94.94	14	UD	54.4		
Chloroethane	75-00-3	64.52	17	UD	44.9		
Tetrahydrofuran	109-99-9	72.11	13	UD	38.3		
Trichlorofluoromethane	75-69-4	137.4	16	UD	89.9		
Dichlorotetrafluoroethane	76-14-2	170.9	8.8	UD	61.5		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	16	UD	122		
Bromoethene	593-60-2	106.9	12	UD	52.5		
tert-Butyl alcohol	75-65-0	74.12	19	UD	57.6		
Heptane	142-82-5	100.2	11	UD	45.1		
Isopropyl Alcohol	67-63-0	60.1	36.1	JD	88.7		
1,1-Dichloroethene	75-35-4	96.94	14	UD	55.5		
Acetone	67-64-1	58.08	610	D	1449		
Carbon Disulfide	75-15-0	76.14	16	UD	49.8		
Methyl tert-Butyl Ether	1634-04-4	88.15	12	UD	43.3		
Methylene Chloride	75-09-2	84.94	19	UD	66.0		
trans-1,2-Dichloroethene	156-60-5	96.94	19	UD	75.3		
1,1-Dichloroethane	75-34-3	98.96	13	UD	52.6		
Cyclohexane	110-82-7	84.16	22	UD	75.7		
2-Butanone	78-93-3	72.11	12	UD	35.4		
Carbon Tetrachloride	56-23-5	153.8	1.1	UD	6.92		
cis-1,2-Dichloroethene	156-59-2	96.94	8.9	UD	35.3		
Chloroform	67-66-3	119.4	8.3	UD	40.5		
1,1,1-Trichloroethane	71-55-6	133.4	0.95	UD	5.18		
2,2,4-Trimethylpentane	540-84-1	114.2	10	UD	46.7		
Benzene	71-43-2	78.11	8.7	UD	27.8		
1,2-Dichloroethane	107-06-2	98.96	9.1	UD	36.8		
Trichloroethene	79-01-6	131.4	1.7	UD	9.14		
1,2-Dichloropropane	78-87-5	113	11	UD	50.8		
Bromodichloromethane	75-27-4	163.8	7.7	UD	51.6		
4-Methyl-2-Pentanone	108-10-1	100.2	9.3	UD	38.1		
Toluene	108-88-3	92.14	11.4	JD	43.0		

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

Project : US EPA Riverside Industrial Park Superfund Site **Sampling Date :** 04/01/25

Field Id Number : IA-B2-2-03312025DL2 **Analysis Date :** 04/18/25

Laboratory Id Number : Q1726-03DL2 **Target Analyts :** Air Results

t-1,3-Dichloropropene	10061-02-6	111	6	UD	27.2		
cis-1,3-Dichloropropene	10061-01-5	111	6.4	UD	29.1		
1,1,2-Trichloroethane	79-00-5	133.4	7.1	UD	38.7		
Dibromochloromethane	124-48-1	208.3	6.6	UD	56.2		
1,2-Dibromoethane	106-93-4	187.9	7.2	UD	55.3		
Tetrachloroethene	127-18-4	165.8	1.5	UD	10.2		
Chlorobenzene	108-90-7	112.6	7.6	UD	35		
Ethyl Benzene	100-41-4	106.2	12	UD	52.1		
m/p-Xylene	179601-23-1	106.2	21	UD	91.2		
o-Xylene	95-47-6	106.2	12	UD	52.1		
Styrene	100-42-5	104.1	11	UD	46.8		
Bromoform	75-25-2	252.8	5.7	UD	58.9		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	1.1	UD	7.55		
2-Chlorotoluene	95-49-8	126.6	11	UD	57.0		
1,3,5-Trimethylbenzene	108-67-8	120.2	11	UD	54.1		
1,2,4-Trimethylbenzene	95-63-6	120.2	7.8	UD	38.4		
1,3-Dichlorobenzene	541-73-1	147	8	UD	48.1		
1,4-Dichlorobenzene	106-46-7	147	5.3	UD	31.9		
1,2-Dichlorobenzene	95-50-1	147	7.5	UD	45.1		
1,2,4-Trichlorobenzene	120-82-1	181.5	8.5	UD	63.1		
Hexachloro-1,3-Butadiene	87-68-3	260.8	8.5	UD	90.7		
Naphthalene	91-20-3	128.17	7.5	UD	39.3		
1,3-Butadiene	106-99-0	54.09	13	UD	28.8		
4-Ethyltoluene	622-96-8	120.2	12	UD	59.0		
Hexane	110-54-3	86.17	11	UD	38.8		
Allyl Chloride	107-05-1	76.53	15	UD	47.0		
1,4-Dioxane	123-91-1	88.12	21	UD	75.7		
Methyl Methacrylate	80-62-6	100.117	8.6	UD	35.2		

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

Project : US EPA Riverside Industrial Park Superfund Site
Sampling Date : 04/01/25
Field Id Number : IA-B2-5-03312025
Analysis Date : 04/17/25
Laboratory Id Number : Q1726-04
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		
Ethanol	64-17-5	46.07	270	E	508		
Chloromethane	74-87-3	50.49	0.66		1.36		
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		
Bromoethene	593-60-2	106.9	0.12	U	0.52		
tert-Butyl alcohol	75-65-0	74.12	0.66		2		
Heptane	142-82-5	100.2	8.6		35.2		
Isopropyl Alcohol	67-63-0	60.1	29.6	E	72.8		
1,1-Dichloroethene	75-35-4	96.94	0.14	U	0.56		
Acetone	67-64-1	58.08	150	E	356		
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	2.9		10.1		
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	2.1		7.23		
2-Butanone	78-93-3	72.11	1.2		3.54		
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	19.3	E	90.2		
Benzene	71-43-2	78.11	1.9		6.07		
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	0.09	U	0.37		
Toluene	108-88-3	92.14	51.4	E	193		

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

Project : US EPA Riverside Industrial Park Superfund Site

Sampling Date : 04/01/25

Field Id Number : IA-B2-5-03312025

Analysis Date : 04/17/25

Laboratory Id Number : Q1726-04

Target Analyts : Air Results

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		
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	0.14		0.95		
Chlorobenzene	108-90-7	112.6	0.08	U	0.37		
Ethyl Benzene	100-41-4	106.2	11.3		49.1		
m/p-Xylene	179601-23-1	106.2	38.9	E	168		
o-Xylene	95-47-6	106.2	15.3	E	66.5		
Styrene	100-42-5	104.1	0.38	J	1.62		
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	1		5.18		
1,3,5-Trimethylbenzene	108-67-8	120.2	7.1		34.9		
1,2,4-Trimethylbenzene	95-63-6	120.2	19.7	E	96.8		
1,3-Dichlorobenzene	541-73-1	147	0.08	U	0.48		
1,4-Dichlorobenzene	106-46-7	147	0.34	J	2.04		
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	2.4		12.6		
1,3-Butadiene	106-99-0	54.09	0.13	U	0.29		
4-Ethyltoluene	622-96-8	120.2	5.5		27.0		
Hexane	110-54-3	86.17	5.6		19.7		
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		

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

Project : US EPA Riverside Industrial Park Superfund Site

Sampling Date : 04/01/25

Field Id Number : IA-B2-5-03312025DL

Analysis Date : 04/18/25

Laboratory Id Number : Q1726-04DL

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	4.2	UD	20.8		
Ethanol	64-17-5	46.07	340	ED	640		
Chloromethane	74-87-3	50.49	2	UD	4.13		
Vinyl Chloride	75-01-4	62.5	0.28	UD	0.72		
Bromomethane	74-83-9	94.94	2.8	UD	10.9		
Chloroethane	75-00-3	64.52	3.4	UD	8.97		
Tetrahydrofuran	109-99-9	72.11	2.6	UD	7.67		
Trichlorofluoromethane	75-69-4	137.4	3.2	UD	18.0		
Dichlorotetrafluoroethane	76-14-2	170.9	1.8	UD	12.6		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	3.2	UD	24.5		
Bromoethene	593-60-2	106.9	2.4	UD	10.5		
tert-Butyl alcohol	75-65-0	74.12	3.8	UD	11.5		
Heptane	142-82-5	100.2	9.4	JD	38.5		
Isopropyl Alcohol	67-63-0	60.1	36.2	D	89.0		
1,1-Dichloroethene	75-35-4	96.94	2.8	UD	11.1		
Acetone	67-64-1	58.08	530	ED	1258		
Carbon Disulfide	75-15-0	76.14	3.2	UD	9.97		
Methyl tert-Butyl Ether	1634-04-4	88.15	2.4	UD	8.65		
Methylene Chloride	75-09-2	84.94	3.8	UD	13.2		
trans-1,2-Dichloroethene	156-60-5	96.94	3.8	UD	15.1		
1,1-Dichloroethane	75-34-3	98.96	2.6	UD	10.5		
Cyclohexane	110-82-7	84.16	4.4	UD	15.2		
2-Butanone	78-93-3	72.11	2.4	UD	7.08		
Carbon Tetrachloride	56-23-5	153.8	0.22	UD	1.38		
cis-1,2-Dichloroethene	156-59-2	96.94	1.8	UD	7.14		
Chloroform	67-66-3	119.4	1.7	UD	8.3		
1,1,1-Trichloroethane	71-55-6	133.4	0.19	UD	1.04		
2,2,4-Trimethylpentane	540-84-1	114.2	21.1	D	98.6		
Benzene	71-43-2	78.11	2.5	JD	7.99		
1,2-Dichloroethane	107-06-2	98.96	1.8	UD	7.29		
Trichloroethene	79-01-6	131.4	0.34	UD	1.83		
1,2-Dichloropropane	78-87-5	113	2.2	UD	10.2		
Bromodichloromethane	75-27-4	163.8	1.5	UD	10.0		
4-Methyl-2-Pentanone	108-10-1	100.2	1.9	UD	7.79		
Toluene	108-88-3	92.14	58.3	D	219		

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

Project : US EPA Riverside Industrial Park Superfund Site **Sampling Date :** 04/01/25

Field Id Number : IA-B2-5-03312025DL **Analysis Date :** 04/18/25

Laboratory Id Number : Q1726-04DL **Target Analyts :** Air Results

t-1,3-Dichloropropene	10061-02-6	111	1.2	UD	5.45		
cis-1,3-Dichloropropene	10061-01-5	111	1.3	UD	5.9		
1,1,2-Trichloroethane	79-00-5	133.4	1.4	UD	7.64		
Dibromochloromethane	124-48-1	208.3	1.3	UD	11.1		
1,2-Dibromoethane	106-93-4	187.9	1.4	UD	10.8		
Tetrachloroethene	127-18-4	165.8	0.3	UD	2.03		
Chlorobenzene	108-90-7	112.6	1.5	UD	6.91		
Ethyl Benzene	100-41-4	106.2	12.3	D	53.4		
m/p-Xylene	179601-23-1	106.2	45.1	D	195		
o-Xylene	95-47-6	106.2	16.8	D	73.0		
Styrene	100-42-5	104.1	2.2	UD	9.37		
Bromoform	75-25-2	252.8	1.1	UD	11.4		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	0.22	UD	1.51		
2-Chlorotoluene	95-49-8	126.6	2.2	UD	11.4		
1,3,5-Trimethylbenzene	108-67-8	120.2	7.9	JD	38.8		
1,2,4-Trimethylbenzene	95-63-6	120.2	22.4	D	110		
1,3-Dichlorobenzene	541-73-1	147	1.6	UD	9.62		
1,4-Dichlorobenzene	106-46-7	147	1.1	UD	6.61		
1,2-Dichlorobenzene	95-50-1	147	1.5	UD	9.02		
1,2,4-Trichlorobenzene	120-82-1	181.5	1.7	UD	12.6		
Hexachloro-1,3-Butadiene	87-68-3	260.8	1.7	UD	18.1		
Naphthalene	91-20-3	128.17	1.5	UD	7.86		
1,3-Butadiene	106-99-0	54.09	2.6	UD	5.75		
4-Ethyltoluene	622-96-8	120.2	6	JD	29.5		
Hexane	110-54-3	86.17	2.2	UD	7.75		
Allyl Chloride	107-05-1	76.53	3	UD	9.39		
1,4-Dioxane	123-91-1	88.12	4.2	UD	15.1		
Methyl Methacrylate	80-62-6	100.117	1.7	UD	6.96		

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

Project : US EPA Riverside Industrial Park Superfund Site

Sampling Date : 04/01/25

Field Id Number : IA-B2-5-03312025DL2

Analysis Date : 04/18/25

Laboratory Id Number : Q1726-04DL2

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	8.4	UD	41.5		
Ethanol	64-17-5	46.07	240	D	452		
Chloromethane	74-87-3	50.49	3.9	UD	8.05		
Vinyl Chloride	75-01-4	62.5	0.56	UD	1.43		
Bromomethane	74-83-9	94.94	5.6	UD	21.7		
Chloroethane	75-00-3	64.52	6.8	UD	17.9		
Tetrahydrofuran	109-99-9	72.11	5.2	UD	15.3		
Trichlorofluoromethane	75-69-4	137.4	6.4	UD	36.0		
Dichlorotetrafluoroethane	76-14-2	170.9	3.5	UD	24.5		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	6.4	UD	49.0		
Bromoethene	593-60-2	106.9	4.8	UD	21.0		
tert-Butyl alcohol	75-65-0	74.12	7.6	UD	23.0		
Heptane	142-82-5	100.2	6.2	JD	25.4		
Isopropyl Alcohol	67-63-0	60.1	25.8	D	63.4		
1,1-Dichloroethene	75-35-4	96.94	5.6	UD	22.2		
Acetone	67-64-1	58.08	380	D	902		
Carbon Disulfide	75-15-0	76.14	6.4	UD	19.9		
Methyl tert-Butyl Ether	1634-04-4	88.15	4.8	UD	17.3		
Methylene Chloride	75-09-2	84.94	7.6	UD	26.4		
trans-1,2-Dichloroethene	156-60-5	96.94	7.6	UD	30.1		
1,1-Dichloroethane	75-34-3	98.96	5.2	UD	21.0		
Cyclohexane	110-82-7	84.16	8.8	UD	30.3		
2-Butanone	78-93-3	72.11	4.8	UD	14.2		
Carbon Tetrachloride	56-23-5	153.8	0.44	UD	2.77		
cis-1,2-Dichloroethene	156-59-2	96.94	3.6	UD	14.3		
Chloroform	67-66-3	119.4	3.3	UD	16.1		
1,1,1-Trichloroethane	71-55-6	133.4	0.38	UD	2.07		
2,2,4-Trimethylpentane	540-84-1	114.2	11.9	JD	55.6		
Benzene	71-43-2	78.11	3.5	UD	11.2		
1,2-Dichloroethane	107-06-2	98.96	3.6	UD	14.6		
Trichloroethene	79-01-6	131.4	0.68	UD	3.65		
1,2-Dichloropropane	78-87-5	113	4.4	UD	20.3		
Bromodichloromethane	75-27-4	163.8	3.1	UD	20.8		
4-Methyl-2-Pentanone	108-10-1	100.2	3.7	UD	15.2		
Toluene	108-88-3	92.14	35.5	D	133		

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

Project : US EPA Riverside Industrial Park Superfund Site **Sampling Date :** 04/01/25

Field Id Number : IA-B2-5-03312025DL2 **Analysis Date :** 04/18/25

Laboratory Id Number : Q1726-04DL2 **Target Analyts :** Air Results

t-1,3-Dichloropropene	10061-02-6	111	2.4	UD	10.9		
cis-1,3-Dichloropropene	10061-01-5	111	2.6	UD	11.8		
1,1,2-Trichloroethane	79-00-5	133.4	2.8	UD	15.3		
Dibromochloromethane	124-48-1	208.3	2.6	UD	22.2		
1,2-Dibromoethane	106-93-4	187.9	2.9	UD	22.3		
Tetrachloroethene	127-18-4	165.8	0.6	UD	4.07		
Chlorobenzene	108-90-7	112.6	3	UD	13.8		
Ethyl Benzene	100-41-4	106.2	7.4	JD	32.1		
m/p-Xylene	179601-23-1	106.2	26.4	JD	114		
o-Xylene	95-47-6	106.2	10.2	JD	44.3		
Styrene	100-42-5	104.1	4.4	UD	18.7		
Bromoform	75-25-2	252.8	2.3	UD	23.8		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	0.44	UD	3.02		
2-Chlorotoluene	95-49-8	126.6	4.4	UD	22.8		
1,3,5-Trimethylbenzene	108-67-8	120.2	4.7	JD	23.1		
1,2,4-Trimethylbenzene	95-63-6	120.2	13.5	JD	66.4		
1,3-Dichlorobenzene	541-73-1	147	3.2	UD	19.2		
1,4-Dichlorobenzene	106-46-7	147	2.1	UD	12.6		
1,2-Dichlorobenzene	95-50-1	147	3	UD	18.0		
1,2,4-Trichlorobenzene	120-82-1	181.5	3.4	UD	25.2		
Hexachloro-1,3-Butadiene	87-68-3	260.8	3.4	UD	36.3		
Naphthalene	91-20-3	128.17	3	UD	15.7		
1,3-Butadiene	106-99-0	54.09	5.2	UD	11.5		
4-Ethyltoluene	622-96-8	120.2	4.8	UD	23.6		
Hexane	110-54-3	86.17	4.4	UD	15.5		
Allyl Chloride	107-05-1	76.53	6	UD	18.8		
1,4-Dioxane	123-91-1	88.12	8.4	UD	30.3		
Methyl Methacrylate	80-62-6	100.117	3.4	UD	13.9		

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

Project : US EPA Riverside Industrial Park Superfund Site

Sampling Date : 04/01/25

Field Id Number : IA-B2-1-03312025

Analysis Date : 04/17/25

Laboratory Id Number : Q1726-05

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	0.5		2.47		
Ethanol	64-17-5	46.07	280	E	527		
Chloromethane	74-87-3	50.49	0.65		1.34		
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	0.25	J	1.4		
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		
Bromoethene	593-60-2	106.9	0.12	U	0.52		
tert-Butyl alcohol	75-65-0	74.12	0.71		2.15		
Heptane	142-82-5	100.2	4.8		19.7		
Isopropyl Alcohol	67-63-0	60.1	36.7	E	90.2		
1,1-Dichloroethene	75-35-4	96.94	0.14	U	0.56		
Acetone	67-64-1	58.08	170	E	403		
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	2.6		9.03		
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	1.4		4.82		
2-Butanone	78-93-3	72.11	1.2		3.54		
Carbon Tetrachloride	56-23-5	153.8	0.09		0.57		
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	0.03		0.16		
2,2,4-Trimethylpentane	540-84-1	114.2	12.1		56.5		
Benzene	71-43-2	78.11	1.3		4.15		
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	0.09	U	0.37		
Toluene	108-88-3	92.14	30.8	E	116		

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

Project : US EPA Riverside Industrial Park Superfund Site **Sampling Date :** 04/01/25

Field Id Number : IA-B2-1-03312025 **Analysis Date :** 04/17/25

Laboratory Id Number : Q1726-05 **Target Analyts :** Air Results

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		
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	0.2		1.36		
Chlorobenzene	108-90-7	112.6	0.08	U	0.37		
Ethyl Benzene	100-41-4	106.2	6.2		26.9		
m/p-Xylene	179601-23-1	106.2	21.6		93.8		
o-Xylene	95-47-6	106.2	8.4		36.5		
Styrene	100-42-5	104.1	0.38	J	1.62		
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	0.8		4.14		
1,3,5-Trimethylbenzene	108-67-8	120.2	3.4		16.7		
1,2,4-Trimethylbenzene	95-63-6	120.2	9.3		45.7		
1,3-Dichlorobenzene	541-73-1	147	0.08	U	0.48		
1,4-Dichlorobenzene	106-46-7	147	0.15	J	0.9		
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	0.36		1.89		
1,3-Butadiene	106-99-0	54.09	0.13	U	0.29		
4-Ethyltoluene	622-96-8	120.2	3.1		15.2		
Hexane	110-54-3	86.17	3.9		13.7		
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		

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

Project : US EPA Riverside Industrial Park Superfund Site

Sampling Date : 04/01/25

Field Id Number : IA-B2-1-03312025DL

Analysis Date : 04/18/25

Laboratory Id Number : Q1726-05DL

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	4.2	UD	20.8		
Ethanol	64-17-5	46.07	360	ED	678		
Chloromethane	74-87-3	50.49	2	UD	4.13		
Vinyl Chloride	75-01-4	62.5	0.28	UD	0.72		
Bromomethane	74-83-9	94.94	2.8	UD	10.9		
Chloroethane	75-00-3	64.52	3.4	UD	8.97		
Tetrahydrofuran	109-99-9	72.11	2.6	UD	7.67		
Trichlorofluoromethane	75-69-4	137.4	3.2	UD	18.0		
Dichlorotetrafluoroethane	76-14-2	170.9	1.8	UD	12.6		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	3.2	UD	24.5		
Bromoethene	593-60-2	106.9	2.4	UD	10.5		
tert-Butyl alcohol	75-65-0	74.12	3.8	UD	11.5		
Heptane	142-82-5	100.2	5.6	JD	23.0		
Isopropyl Alcohol	67-63-0	60.1	47.1	D	115		
1,1-Dichloroethene	75-35-4	96.94	2.8	UD	11.1		
Acetone	67-64-1	58.08	760	ED	1805		
Carbon Disulfide	75-15-0	76.14	3.2	UD	9.97		
Methyl tert-Butyl Ether	1634-04-4	88.15	2.4	UD	8.65		
Methylene Chloride	75-09-2	84.94	3.8	UD	13.2		
trans-1,2-Dichloroethene	156-60-5	96.94	3.8	UD	15.1		
1,1-Dichloroethane	75-34-3	98.96	2.6	UD	10.5		
Cyclohexane	110-82-7	84.16	4.4	UD	15.2		
2-Butanone	78-93-3	72.11	2.4	UD	7.08		
Carbon Tetrachloride	56-23-5	153.8	0.22	UD	1.38		
cis-1,2-Dichloroethene	156-59-2	96.94	1.8	UD	7.14		
Chloroform	67-66-3	119.4	1.7	UD	8.3		
1,1,1-Trichloroethane	71-55-6	133.4	0.19	UD	1.04		
2,2,4-Trimethylpentane	540-84-1	114.2	12.5	D	58.4		
Benzene	71-43-2	78.11	1.7	UD	5.43		
1,2-Dichloroethane	107-06-2	98.96	1.8	UD	7.29		
Trichloroethene	79-01-6	131.4	0.34	UD	1.83		
1,2-Dichloropropane	78-87-5	113	2.2	UD	10.2		
Bromodichloromethane	75-27-4	163.8	1.5	UD	10.0		
4-Methyl-2-Pentanone	108-10-1	100.2	1.9	UD	7.79		
Toluene	108-88-3	92.14	34.9	D	131		

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

Project : US EPA Riverside Industrial Park Superfund Site **Sampling Date :** 04/01/25

Field Id Number : IA-B2-1-03312025DL **Analysis Date :** 04/18/25

Laboratory Id Number : Q1726-05DL **Target Analyts :** Air Results

t-1,3-Dichloropropene	10061-02-6	111	1.2	UD	5.45		
cis-1,3-Dichloropropene	10061-01-5	111	1.3	UD	5.9		
1,1,2-Trichloroethane	79-00-5	133.4	1.4	UD	7.64		
Dibromochloromethane	124-48-1	208.3	1.3	UD	11.1		
1,2-Dibromoethane	106-93-4	187.9	1.4	UD	10.8		
Tetrachloroethene	127-18-4	165.8	0.3	UD	2.03		
Chlorobenzene	108-90-7	112.6	1.5	UD	6.91		
Ethyl Benzene	100-41-4	106.2	6.7	JD	29.1		
m/p-Xylene	179601-23-1	106.2	23.9	D	103		
o-Xylene	95-47-6	106.2	9.1	JD	39.5		
Styrene	100-42-5	104.1	2.2	UD	9.37		
Bromoform	75-25-2	252.8	1.1	UD	11.4		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	0.22	UD	1.51		
2-Chlorotoluene	95-49-8	126.6	2.2	UD	11.4		
1,3,5-Trimethylbenzene	108-67-8	120.2	4	JD	19.7		
1,2,4-Trimethylbenzene	95-63-6	120.2	9.9	JD	48.7		
1,3-Dichlorobenzene	541-73-1	147	1.6	UD	9.62		
1,4-Dichlorobenzene	106-46-7	147	1.1	UD	6.61		
1,2-Dichlorobenzene	95-50-1	147	1.5	UD	9.02		
1,2,4-Trichlorobenzene	120-82-1	181.5	1.7	UD	12.6		
Hexachloro-1,3-Butadiene	87-68-3	260.8	1.7	UD	18.1		
Naphthalene	91-20-3	128.17	1.5	UD	7.86		
1,3-Butadiene	106-99-0	54.09	2.6	UD	5.75		
4-Ethyltoluene	622-96-8	120.2	3.4	JD	16.7		
Hexane	110-54-3	86.17	2.2	UD	7.75		
Allyl Chloride	107-05-1	76.53	3	UD	9.39		
1,4-Dioxane	123-91-1	88.12	4.2	UD	15.1		
Methyl Methacrylate	80-62-6	100.117	1.7	UD	6.96		

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

Project : US EPA Riverside Industrial Park Superfund Site

Sampling Date : 04/01/25

Field Id Number : IA-B2-1-03312025DL2

Analysis Date : 04/18/25

Laboratory Id Number : Q1726-05DL2

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	21	UD	103		
Ethanol	64-17-5	46.07	200	D	376		
Chloromethane	74-87-3	50.49	9.8	UD	20.2		
Vinyl Chloride	75-01-4	62.5	1.4	UD	3.58		
Bromomethane	74-83-9	94.94	14	UD	54.4		
Chloroethane	75-00-3	64.52	17	UD	44.9		
Tetrahydrofuran	109-99-9	72.11	13	UD	38.3		
Trichlorofluoromethane	75-69-4	137.4	16	UD	89.9		
Dichlorotetrafluoroethane	76-14-2	170.9	8.8	UD	61.5		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	16	UD	122		
Bromoethene	593-60-2	106.9	12	UD	52.5		
tert-Butyl alcohol	75-65-0	74.12	19	UD	57.6		
Heptane	142-82-5	100.2	11	UD	45.1		
Isopropyl Alcohol	67-63-0	60.1	29.5	JD	72.5		
1,1-Dichloroethene	75-35-4	96.94	14	UD	55.5		
Acetone	67-64-1	58.08	510	D	1211		
Carbon Disulfide	75-15-0	76.14	16	UD	49.8		
Methyl tert-Butyl Ether	1634-04-4	88.15	12	UD	43.3		
Methylene Chloride	75-09-2	84.94	19	UD	66.0		
trans-1,2-Dichloroethene	156-60-5	96.94	19	UD	75.3		
1,1-Dichloroethane	75-34-3	98.96	13	UD	52.6		
Cyclohexane	110-82-7	84.16	22	UD	75.7		
2-Butanone	78-93-3	72.11	12	UD	35.4		
Carbon Tetrachloride	56-23-5	153.8	1.1	UD	6.92		
cis-1,2-Dichloroethene	156-59-2	96.94	8.9	UD	35.3		
Chloroform	67-66-3	119.4	8.3	UD	40.5		
1,1,1-Trichloroethane	71-55-6	133.4	0.95	UD	5.18		
2,2,4-Trimethylpentane	540-84-1	114.2	10	UD	46.7		
Benzene	71-43-2	78.11	8.7	UD	27.8		
1,2-Dichloroethane	107-06-2	98.96	9.1	UD	36.8		
Trichloroethene	79-01-6	131.4	1.7	UD	9.14		
1,2-Dichloropropane	78-87-5	113	11	UD	50.8		
Bromodichloromethane	75-27-4	163.8	7.7	UD	51.6		
4-Methyl-2-Pentanone	108-10-1	100.2	9.3	UD	38.1		
Toluene	108-88-3	92.14	19.4	JD	73.1		

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

Project : US EPA Riverside Industrial Park Superfund Site **Sampling Date :** 04/01/25

Field Id Number : IA-B2-1-03312025DL2 **Analysis Date :** 04/18/25

Laboratory Id Number : Q1726-05DL2 **Target Analyts :** Air Results

t-1,3-Dichloropropene	10061-02-6	111	6	UD	27.2		
cis-1,3-Dichloropropene	10061-01-5	111	6.4	UD	29.1		
1,1,2-Trichloroethane	79-00-5	133.4	7.1	UD	38.7		
Dibromochloromethane	124-48-1	208.3	6.6	UD	56.2		
1,2-Dibromoethane	106-93-4	187.9	7.2	UD	55.3		
Tetrachloroethene	127-18-4	165.8	1.5	UD	10.2		
Chlorobenzene	108-90-7	112.6	7.6	UD	35		
Ethyl Benzene	100-41-4	106.2	12	UD	52.1		
m/p-Xylene	179601-23-1	106.2	21	UD	91.2		
o-Xylene	95-47-6	106.2	12	UD	52.1		
Styrene	100-42-5	104.1	11	UD	46.8		
Bromoform	75-25-2	252.8	5.7	UD	58.9		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	1.1	UD	7.55		
2-Chlorotoluene	95-49-8	126.6	11	UD	57.0		
1,3,5-Trimethylbenzene	108-67-8	120.2	11	UD	54.1		
1,2,4-Trimethylbenzene	95-63-6	120.2	7.8	UD	38.4		
1,3-Dichlorobenzene	541-73-1	147	8	UD	48.1		
1,4-Dichlorobenzene	106-46-7	147	5.3	UD	31.9		
1,2-Dichlorobenzene	95-50-1	147	7.5	UD	45.1		
1,2,4-Trichlorobenzene	120-82-1	181.5	8.5	UD	63.1		
Hexachloro-1,3-Butadiene	87-68-3	260.8	8.5	UD	90.7		
Naphthalene	91-20-3	128.17	7.5	UD	39.3		
1,3-Butadiene	106-99-0	54.09	13	UD	28.8		
4-Ethyltoluene	622-96-8	120.2	12	UD	59.0		
Hexane	110-54-3	86.17	11	UD	38.8		
Allyl Chloride	107-05-1	76.53	15	UD	47.0		
1,4-Dioxane	123-91-1	88.12	21	UD	75.7		
Methyl Methacrylate	80-62-6	100.117	8.6	UD	35.2		

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

Project : US EPA Riverside Industrial Park Superfund Site
Sampling Date : 04/01/25
Field Id Number : IA-B2-3-03312025
Analysis Date : 04/17/25
Laboratory Id Number : Q1726-06
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		
Ethanol	64-17-5	46.07	310	E	584		
Chloromethane	74-87-3	50.49	1.2		2.48		
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	0.36	J	1.06		
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		
Bromoethene	593-60-2	106.9	0.12	U	0.52		
tert-Butyl alcohol	75-65-0	74.12	0.69		2.09		
Heptane	142-82-5	100.2	3.4		13.9		
Isopropyl Alcohol	67-63-0	60.1	34.5	E	84.8		
1,1-Dichloroethene	75-35-4	96.94	0.14	U	0.56		
Acetone	67-64-1	58.08	170	E	403		
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	3.2		11.1		
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	1.1		3.79		
2-Butanone	78-93-3	72.11	2.1		6.19		
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	0.15	J	0.73		
1,1,1-Trichloroethane	71-55-6	133.4	0.01	U	0.05		
2,2,4-Trimethylpentane	540-84-1	114.2	9.4		43.9		
Benzene	71-43-2	78.11	1.1		3.51		
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	0.09	U	0.37		
Toluene	108-88-3	92.14	22.3	E	84.0		

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

Project : US EPA Riverside Industrial Park Superfund Site

Sampling Date : 04/01/25

Field Id Number : IA-B2-3-03312025

Analysis Date : 04/17/25

Laboratory Id Number : Q1726-06

Target Analyts : Air Results

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		
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	0.14		0.95		
Chlorobenzene	108-90-7	112.6	0.08	U	0.37		
Ethyl Benzene	100-41-4	106.2	4.3		18.7		
m/p-Xylene	179601-23-1	106.2	14.9		64.7		
o-Xylene	95-47-6	106.2	5.8		25.2		
Styrene	100-42-5	104.1	0.39	J	1.66		
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	0.84		4.35		
1,3,5-Trimethylbenzene	108-67-8	120.2	2.6		12.8		
1,2,4-Trimethylbenzene	95-63-6	120.2	7.2		35.4		
1,3-Dichlorobenzene	541-73-1	147	0.08	U	0.48		
1,4-Dichlorobenzene	106-46-7	147	0.2	J	1.2		
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	0.45		2.36		
1,3-Butadiene	106-99-0	54.09	0.13	U	0.29		
4-Ethyltoluene	622-96-8	120.2	2.1		10.3		
Hexane	110-54-3	86.17	3.5		12.3		
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		

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

Project : US EPA Riverside Industrial Park Superfund Site

Sampling Date : 04/01/25

Field Id Number : IA-B2-3-03312025DL

Analysis Date : 04/18/25

Laboratory Id Number : Q1726-06DL

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	4.2	UD	20.8		
Ethanol	64-17-5	46.07	370	ED	697		
Chloromethane	74-87-3	50.49	2	UD	4.13		
Vinyl Chloride	75-01-4	62.5	0.28	UD	0.72		
Bromomethane	74-83-9	94.94	2.8	UD	10.9		
Chloroethane	75-00-3	64.52	3.4	UD	8.97		
Tetrahydrofuran	109-99-9	72.11	2.6	UD	7.67		
Trichlorofluoromethane	75-69-4	137.4	3.2	UD	18.0		
Dichlorotetrafluoroethane	76-14-2	170.9	1.8	UD	12.6		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	3.2	UD	24.5		
Bromoethene	593-60-2	106.9	2.4	UD	10.5		
tert-Butyl alcohol	75-65-0	74.12	3.8	UD	11.5		
Heptane	142-82-5	100.2	3.9	JD	16.0		
Isopropyl Alcohol	67-63-0	60.1	45	D	110		
1,1-Dichloroethene	75-35-4	96.94	2.8	UD	11.1		
Acetone	67-64-1	58.08	670	ED	1591		
Carbon Disulfide	75-15-0	76.14	3.2	UD	9.97		
Methyl tert-Butyl Ether	1634-04-4	88.15	2.4	UD	8.65		
Methylene Chloride	75-09-2	84.94	3.8	UD	13.2		
trans-1,2-Dichloroethene	156-60-5	96.94	3.8	UD	15.1		
1,1-Dichloroethane	75-34-3	98.96	2.6	UD	10.5		
Cyclohexane	110-82-7	84.16	4.4	UD	15.2		
2-Butanone	78-93-3	72.11	3.2	JD	9.44		
Carbon Tetrachloride	56-23-5	153.8	0.22	UD	1.38		
cis-1,2-Dichloroethene	156-59-2	96.94	1.8	UD	7.14		
Chloroform	67-66-3	119.4	1.7	UD	8.3		
1,1,1-Trichloroethane	71-55-6	133.4	0.19	UD	1.04		
2,2,4-Trimethylpentane	540-84-1	114.2	9.9	JD	46.2		
Benzene	71-43-2	78.11	1.7	UD	5.43		
1,2-Dichloroethane	107-06-2	98.96	1.8	UD	7.29		
Trichloroethene	79-01-6	131.4	0.34	UD	1.83		
1,2-Dichloropropane	78-87-5	113	2.2	UD	10.2		
Bromodichloromethane	75-27-4	163.8	1.5	UD	10.0		
4-Methyl-2-Pentanone	108-10-1	100.2	1.9	UD	7.79		
Toluene	108-88-3	92.14	23.3	D	87.8		

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

Project : US EPA Riverside Industrial Park Superfund Site **Sampling Date :** 04/01/25

Field Id Number : IA-B2-3-03312025DL **Analysis Date :** 04/18/25

Laboratory Id Number : Q1726-06DL **Target Analyts :** Air Results

t-1,3-Dichloropropene	10061-02-6	111	1.2	UD	5.45		
cis-1,3-Dichloropropene	10061-01-5	111	1.3	UD	5.9		
1,1,2-Trichloroethane	79-00-5	133.4	1.4	UD	7.64		
Dibromochloromethane	124-48-1	208.3	1.3	UD	11.1		
1,2-Dibromoethane	106-93-4	187.9	1.4	UD	10.8		
Tetrachloroethene	127-18-4	165.8	0.3	UD	2.03		
Chlorobenzene	108-90-7	112.6	1.5	UD	6.91		
Ethyl Benzene	100-41-4	106.2	4.4	JD	19.1		
m/p-Xylene	179601-23-1	106.2	15.7	JD	68.2		
o-Xylene	95-47-6	106.2	6	JD	26.1		
Styrene	100-42-5	104.1	2.2	UD	9.37		
Bromoform	75-25-2	252.8	1.1	UD	11.4		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	0.22	UD	1.51		
2-Chlorotoluene	95-49-8	126.6	2.2	UD	11.4		
1,3,5-Trimethylbenzene	108-67-8	120.2	2.7	JD	13.3		
1,2,4-Trimethylbenzene	95-63-6	120.2	7.6	JD	37.4		
1,3-Dichlorobenzene	541-73-1	147	1.6	UD	9.62		
1,4-Dichlorobenzene	106-46-7	147	1.1	UD	6.61		
1,2-Dichlorobenzene	95-50-1	147	1.5	UD	9.02		
1,2,4-Trichlorobenzene	120-82-1	181.5	1.7	UD	12.6		
Hexachloro-1,3-Butadiene	87-68-3	260.8	1.7	UD	18.1		
Naphthalene	91-20-3	128.17	1.5	UD	7.86		
1,3-Butadiene	106-99-0	54.09	2.6	UD	5.75		
4-Ethyltoluene	622-96-8	120.2	2.4	UD	11.8		
Hexane	110-54-3	86.17	2.2	UD	7.75		
Allyl Chloride	107-05-1	76.53	3	UD	9.39		
1,4-Dioxane	123-91-1	88.12	4.2	UD	15.1		
Methyl Methacrylate	80-62-6	100.117	1.7	UD	6.96		

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

Project : US EPA Riverside Industrial Park Superfund Site

Sampling Date : 04/01/25

Field Id Number : IA-B2-3-03312025DL2

Analysis Date : 04/18/25

Laboratory Id Number : Q1726-06DL2

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	21	UD	103		
Ethanol	64-17-5	46.07	290	D	546		
Chloromethane	74-87-3	50.49	9.8	UD	20.2		
Vinyl Chloride	75-01-4	62.5	1.4	UD	3.58		
Bromomethane	74-83-9	94.94	14	UD	54.4		
Chloroethane	75-00-3	64.52	17	UD	44.9		
Tetrahydrofuran	109-99-9	72.11	13	UD	38.3		
Trichlorofluoromethane	75-69-4	137.4	16	UD	89.9		
Dichlorotetrafluoroethane	76-14-2	170.9	8.8	UD	61.5		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	16	UD	122		
Bromoethene	593-60-2	106.9	12	UD	52.5		
tert-Butyl alcohol	75-65-0	74.12	19	UD	57.6		
Heptane	142-82-5	100.2	11	UD	45.1		
Isopropyl Alcohol	67-63-0	60.1	35.1	JD	86.3		
1,1-Dichloroethene	75-35-4	96.94	14	UD	55.5		
Acetone	67-64-1	58.08	520	D	1235		
Carbon Disulfide	75-15-0	76.14	16	UD	49.8		
Methyl tert-Butyl Ether	1634-04-4	88.15	12	UD	43.3		
Methylene Chloride	75-09-2	84.94	19	UD	66.0		
trans-1,2-Dichloroethene	156-60-5	96.94	19	UD	75.3		
1,1-Dichloroethane	75-34-3	98.96	13	UD	52.6		
Cyclohexane	110-82-7	84.16	22	UD	75.7		
2-Butanone	78-93-3	72.11	12	UD	35.4		
Carbon Tetrachloride	56-23-5	153.8	1.1	UD	6.92		
cis-1,2-Dichloroethene	156-59-2	96.94	8.9	UD	35.3		
Chloroform	67-66-3	119.4	8.3	UD	40.5		
1,1,1-Trichloroethane	71-55-6	133.4	0.95	UD	5.18		
2,2,4-Trimethylpentane	540-84-1	114.2	10	UD	46.7		
Benzene	71-43-2	78.11	8.7	UD	27.8		
1,2-Dichloroethane	107-06-2	98.96	9.1	UD	36.8		
Trichloroethene	79-01-6	131.4	1.7	UD	9.14		
1,2-Dichloropropane	78-87-5	113	11	UD	50.8		
Bromodichloromethane	75-27-4	163.8	7.7	UD	51.6		
4-Methyl-2-Pentanone	108-10-1	100.2	9.3	UD	38.1		
Toluene	108-88-3	92.14	14.1	JD	53.1		

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

Project : US EPA Riverside Industrial Park Superfund Site **Sampling Date :** 04/01/25

Field Id Number : IA-B2-3-03312025DL2 **Analysis Date :** 04/18/25

Laboratory Id Number : Q1726-06DL2 **Target Analyts :** Air Results

t-1,3-Dichloropropene	10061-02-6	111	6	UD	27.2		
cis-1,3-Dichloropropene	10061-01-5	111	6.4	UD	29.1		
1,1,2-Trichloroethane	79-00-5	133.4	7.1	UD	38.7		
Dibromochloromethane	124-48-1	208.3	6.6	UD	56.2		
1,2-Dibromoethane	106-93-4	187.9	7.2	UD	55.3		
Tetrachloroethene	127-18-4	165.8	1.5	UD	10.2		
Chlorobenzene	108-90-7	112.6	7.6	UD	35		
Ethyl Benzene	100-41-4	106.2	12	UD	52.1		
m/p-Xylene	179601-23-1	106.2	21	UD	91.2		
o-Xylene	95-47-6	106.2	12	UD	52.1		
Styrene	100-42-5	104.1	11	UD	46.8		
Bromoform	75-25-2	252.8	5.7	UD	58.9		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	1.1	UD	7.55		
2-Chlorotoluene	95-49-8	126.6	11	UD	57.0		
1,3,5-Trimethylbenzene	108-67-8	120.2	11	UD	54.1		
1,2,4-Trimethylbenzene	95-63-6	120.2	7.8	UD	38.4		
1,3-Dichlorobenzene	541-73-1	147	8	UD	48.1		
1,4-Dichlorobenzene	106-46-7	147	5.3	UD	31.9		
1,2-Dichlorobenzene	95-50-1	147	7.5	UD	45.1		
1,2,4-Trichlorobenzene	120-82-1	181.5	8.5	UD	63.1		
Hexachloro-1,3-Butadiene	87-68-3	260.8	8.5	UD	90.7		
Naphthalene	91-20-3	128.17	7.5	UD	39.3		
1,3-Butadiene	106-99-0	54.09	13	UD	28.8		
4-Ethyltoluene	622-96-8	120.2	12	UD	59.0		
Hexane	110-54-3	86.17	11	UD	38.8		
Allyl Chloride	107-05-1	76.53	15	UD	47.0		
1,4-Dioxane	123-91-1	88.12	21	UD	75.7		
Methyl Methacrylate	80-62-6	100.117	8.6	UD	35.2		

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

Project : US EPA Riverside Industrial Park Superfund Site

Sampling Date : 04/01/25

Field Id Number : IA-B2-4-03312025

Analysis Date : 04/17/25

Laboratory Id Number : Q1726-07

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	0.51		2.52		
Ethanol	64-17-5	46.07	320	E	602		
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	0.27	J	1.52		
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		
Bromoethene	593-60-2	106.9	0.12	U	0.52		
tert-Butyl alcohol	75-65-0	74.12	0.74		2.24		
Heptane	142-82-5	100.2	4.2		17.2		
Isopropyl Alcohol	67-63-0	60.1	34.3	E	84.3		
1,1-Dichloroethene	75-35-4	96.94	0.14	U	0.56		
Acetone	67-64-1	58.08	170	E	403		
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	2.7		9.38		
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	1.3		4.47		
2-Butanone	78-93-3	72.11	1.2		3.54		
Carbon Tetrachloride	56-23-5	153.8	0.09		0.57		
cis-1,2-Dichloroethene	156-59-2	96.94	0.09	U	0.36		
Chloroform	67-66-3	119.4	0.11	J	0.54		
1,1,1-Trichloroethane	71-55-6	133.4	0.01	U	0.05		
2,2,4-Trimethylpentane	540-84-1	114.2	10.6		49.5		
Benzene	71-43-2	78.11	1.1		3.51		
1,2-Dichloroethane	107-06-2	98.96	0.21	J	0.85		
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	0.42	J	1.72		
Toluene	108-88-3	92.14	26.5	E	99.9		

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

Project : US EPA Riverside Industrial Park Superfund Site **Sampling Date :** 04/01/25

Field Id Number : IA-B2-4-03312025 **Analysis Date :** 04/17/25

Laboratory Id Number : Q1726-07 **Target Analyts :** Air Results

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		
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	0.13		0.88		
Chlorobenzene	108-90-7	112.6	0.08	U	0.37		
Ethyl Benzene	100-41-4	106.2	5.1		22.2		
m/p-Xylene	179601-23-1	106.2	17.5		76.0		
o-Xylene	95-47-6	106.2	6.9		30.0		
Styrene	100-42-5	104.1	0.37	J	1.58		
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	1.4		7.25		
1,3,5-Trimethylbenzene	108-67-8	120.2	3.3		16.2		
1,2,4-Trimethylbenzene	95-63-6	120.2	9		44.2		
1,3-Dichlorobenzene	541-73-1	147	0.08	U	0.48		
1,4-Dichlorobenzene	106-46-7	147	0.36	J	2.16		
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	0.58		3.04		
1,3-Butadiene	106-99-0	54.09	0.13	U	0.29		
4-Ethyltoluene	622-96-8	120.2	2.7		13.3		
Hexane	110-54-3	86.17	3.8		13.4		
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		

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

Project : US EPA Riverside Industrial Park Superfund Site

Sampling Date : 04/01/25

Field Id Number : IA-B2-4-03312025DL

Analysis Date : 04/17/25

Laboratory Id Number : Q1726-07DL

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	4.2	UD	20.8		
Ethanol	64-17-5	46.07	380	ED	716		
Chloromethane	74-87-3	50.49	2	UD	4.13		
Vinyl Chloride	75-01-4	62.5	0.28	UD	0.72		
Bromomethane	74-83-9	94.94	2.8	UD	10.9		
Chloroethane	75-00-3	64.52	3.4	UD	8.97		
Tetrahydrofuran	109-99-9	72.11	2.6	UD	7.67		
Trichlorofluoromethane	75-69-4	137.4	3.2	UD	18.0		
Dichlorotetrafluoroethane	76-14-2	170.9	1.8	UD	12.6		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	3.2	UD	24.5		
Bromoethene	593-60-2	106.9	2.4	UD	10.5		
tert-Butyl alcohol	75-65-0	74.12	3.8	UD	11.5		
Heptane	142-82-5	100.2	5.1	JD	20.9		
Isopropyl Alcohol	67-63-0	60.1	37.9	D	93.2		
1,1-Dichloroethene	75-35-4	96.94	2.8	UD	11.1		
Acetone	67-64-1	58.08	590	ED	1401		
Carbon Disulfide	75-15-0	76.14	3.2	UD	9.97		
Methyl tert-Butyl Ether	1634-04-4	88.15	2.4	UD	8.65		
Methylene Chloride	75-09-2	84.94	3.8	UD	13.2		
trans-1,2-Dichloroethene	156-60-5	96.94	3.8	UD	15.1		
1,1-Dichloroethane	75-34-3	98.96	2.6	UD	10.5		
Cyclohexane	110-82-7	84.16	4.4	UD	15.2		
2-Butanone	78-93-3	72.11	2.4	UD	7.08		
Carbon Tetrachloride	56-23-5	153.8	0.22	UD	1.38		
cis-1,2-Dichloroethene	156-59-2	96.94	1.8	UD	7.14		
Chloroform	67-66-3	119.4	1.7	UD	8.3		
1,1,1-Trichloroethane	71-55-6	133.4	0.19	UD	1.04		
2,2,4-Trimethylpentane	540-84-1	114.2	10.9	D	50.9		
Benzene	71-43-2	78.11	1.7	UD	5.43		
1,2-Dichloroethane	107-06-2	98.96	1.8	UD	7.29		
Trichloroethene	79-01-6	131.4	0.34	UD	1.83		
1,2-Dichloropropane	78-87-5	113	2.2	UD	10.2		
Bromodichloromethane	75-27-4	163.8	1.5	UD	10.0		
4-Methyl-2-Pentanone	108-10-1	100.2	1.9	UD	7.79		
Toluene	108-88-3	92.14	27.3	D	102		

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

Project : US EPA Riverside Industrial Park Superfund Site **Sampling Date :** 04/01/25

Field Id Number : IA-B2-4-03312025DL **Analysis Date :** 04/17/25

Laboratory Id Number : Q1726-07DL **Target Analyts :** Air Results

t-1,3-Dichloropropene	10061-02-6	111	1.2	UD	5.45		
cis-1,3-Dichloropropene	10061-01-5	111	1.3	UD	5.9		
1,1,2-Trichloroethane	79-00-5	133.4	1.4	UD	7.64		
Dibromochloromethane	124-48-1	208.3	1.3	UD	11.1		
1,2-Dibromoethane	106-93-4	187.9	1.4	UD	10.8		
Tetrachloroethene	127-18-4	165.8	0.3	UD	2.03		
Chlorobenzene	108-90-7	112.6	1.5	UD	6.91		
Ethyl Benzene	100-41-4	106.2	5.1	JD	22.2		
m/p-Xylene	179601-23-1	106.2	17.7	JD	76.9		
o-Xylene	95-47-6	106.2	6.8	JD	29.5		
Styrene	100-42-5	104.1	2.2	UD	9.37		
Bromoform	75-25-2	252.8	1.1	UD	11.4		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	0.22	UD	1.51		
2-Chlorotoluene	95-49-8	126.6	2.2	UD	11.4		
1,3,5-Trimethylbenzene	108-67-8	120.2	3.6	JD	17.7		
1,2,4-Trimethylbenzene	95-63-6	120.2	9.4	JD	46.2		
1,3-Dichlorobenzene	541-73-1	147	1.6	UD	9.62		
1,4-Dichlorobenzene	106-46-7	147	1.1	UD	6.61		
1,2-Dichlorobenzene	95-50-1	147	1.5	UD	9.02		
1,2,4-Trichlorobenzene	120-82-1	181.5	1.7	UD	12.6		
Hexachloro-1,3-Butadiene	87-68-3	260.8	1.7	UD	18.1		
Naphthalene	91-20-3	128.17	1.5	UD	7.86		
1,3-Butadiene	106-99-0	54.09	2.6	UD	5.75		
4-Ethyltoluene	622-96-8	120.2	2.6	JD	12.8		
Hexane	110-54-3	86.17	2.2	UD	7.75		
Allyl Chloride	107-05-1	76.53	3	UD	9.39		
1,4-Dioxane	123-91-1	88.12	4.2	UD	15.1		
Methyl Methacrylate	80-62-6	100.117	1.7	UD	6.96		

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

Project : US EPA Riverside Industrial Park Superfund Site

Sampling Date : 04/01/25

Field Id Number : IA-B2-4-03312025DL2

Analysis Date : 04/18/25

Laboratory Id Number : Q1726-07DL2

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	8.4	UD	41.5		
Ethanol	64-17-5	46.07	270	D	508		
Chloromethane	74-87-3	50.49	3.9	UD	8.05		
Vinyl Chloride	75-01-4	62.5	0.56	UD	1.43		
Bromomethane	74-83-9	94.94	5.6	UD	21.7		
Chloroethane	75-00-3	64.52	6.8	UD	17.9		
Tetrahydrofuran	109-99-9	72.11	5.2	UD	15.3		
Trichlorofluoromethane	75-69-4	137.4	6.4	UD	36.0		
Dichlorotetrafluoroethane	76-14-2	170.9	3.5	UD	24.5		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	6.4	UD	49.0		
Bromoethene	593-60-2	106.9	4.8	UD	21.0		
tert-Butyl alcohol	75-65-0	74.12	7.6	UD	23.0		
Heptane	142-82-5	100.2	4.4	UD	18.0		
Isopropyl Alcohol	67-63-0	60.1	29.6	D	72.8		
1,1-Dichloroethene	75-35-4	96.94	5.6	UD	22.2		
Acetone	67-64-1	58.08	470	D	1116		
Carbon Disulfide	75-15-0	76.14	6.4	UD	19.9		
Methyl tert-Butyl Ether	1634-04-4	88.15	4.8	UD	17.3		
Methylene Chloride	75-09-2	84.94	7.6	UD	26.4		
trans-1,2-Dichloroethene	156-60-5	96.94	7.6	UD	30.1		
1,1-Dichloroethane	75-34-3	98.96	5.2	UD	21.0		
Cyclohexane	110-82-7	84.16	8.8	UD	30.3		
2-Butanone	78-93-3	72.11	4.8	UD	14.2		
Carbon Tetrachloride	56-23-5	153.8	0.44	UD	2.77		
cis-1,2-Dichloroethene	156-59-2	96.94	3.6	UD	14.3		
Chloroform	67-66-3	119.4	3.3	UD	16.1		
1,1,1-Trichloroethane	71-55-6	133.4	0.38	UD	2.07		
2,2,4-Trimethylpentane	540-84-1	114.2	7.2	JD	33.6		
Benzene	71-43-2	78.11	3.5	UD	11.2		
1,2-Dichloroethane	107-06-2	98.96	3.6	UD	14.6		
Trichloroethene	79-01-6	131.4	0.68	UD	3.65		
1,2-Dichloropropane	78-87-5	113	4.4	UD	20.3		
Bromodichloromethane	75-27-4	163.8	3.1	UD	20.8		
4-Methyl-2-Pentanone	108-10-1	100.2	3.7	UD	15.2		
Toluene	108-88-3	92.14	18.3	JD	69.0		

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

Project : US EPA Riverside Industrial Park Superfund Site **Sampling Date :** 04/01/25

Field Id Number : IA-B2-4-03312025DL2 **Analysis Date :** 04/18/25

Laboratory Id Number : Q1726-07DL2 **Target Analyts :** Air Results

t-1,3-Dichloropropene	10061-02-6	111	2.4	UD	10.9		
cis-1,3-Dichloropropene	10061-01-5	111	2.6	UD	11.8		
1,1,2-Trichloroethane	79-00-5	133.4	2.8	UD	15.3		
Dibromochloromethane	124-48-1	208.3	2.6	UD	22.2		
1,2-Dibromoethane	106-93-4	187.9	2.9	UD	22.3		
Tetrachloroethene	127-18-4	165.8	0.6	UD	4.07		
Chlorobenzene	108-90-7	112.6	3	UD	13.8		
Ethyl Benzene	100-41-4	106.2	4.8	UD	20.8		
m/p-Xylene	179601-23-1	106.2	12.2	JD	53.0		
o-Xylene	95-47-6	106.2	4.8	UD	20.8		
Styrene	100-42-5	104.1	4.4	UD	18.7		
Bromoform	75-25-2	252.8	2.3	UD	23.8		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	0.44	UD	3.02		
2-Chlorotoluene	95-49-8	126.6	4.4	UD	22.8		
1,3,5-Trimethylbenzene	108-67-8	120.2	4.4	UD	21.6		
1,2,4-Trimethylbenzene	95-63-6	120.2	3.1	UD	15.2		
1,3-Dichlorobenzene	541-73-1	147	3.2	UD	19.2		
1,4-Dichlorobenzene	106-46-7	147	2.1	UD	12.6		
1,2-Dichlorobenzene	95-50-1	147	3	UD	18.0		
1,2,4-Trichlorobenzene	120-82-1	181.5	3.4	UD	25.2		
Hexachloro-1,3-Butadiene	87-68-3	260.8	3.4	UD	36.3		
Naphthalene	91-20-3	128.17	3	UD	15.7		
1,3-Butadiene	106-99-0	54.09	5.2	UD	11.5		
4-Ethyltoluene	622-96-8	120.2	4.8	UD	23.6		
Hexane	110-54-3	86.17	4.4	UD	15.5		
Allyl Chloride	107-05-1	76.53	6	UD	18.8		
1,4-Dioxane	123-91-1	88.12	8.4	UD	30.3		
Methyl Methacrylate	80-62-6	100.117	3.4	UD	13.9		

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,
Fax : 908 789 8922

Surrogate Summary

SDG No.: Q1726

Client: Woodard & Curran

Analytical Method: SWTO-15

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits Low	Limits High
Q1726-01	IA-DUP-3-03312025	1-Bromo-4-Fluorobenzene	10	10.1	101	70 (65)	130 (135)
Q1726-01DL	IA-DUP-3-03312025DL	1-Bromo-4-Fluorobenzene	10	10.1	101	70 (65)	130 (135)
Q1726-01DL2	IA-DUP-3-03312025DL2	1-Bromo-4-Fluorobenzene	10	9.92	99	70 (65)	130 (135)
Q1726-02	IA-B2-6-03312025	1-Bromo-4-Fluorobenzene	10	10.1	101	70 (65)	130 (135)
Q1726-02DL	IA-B2-6-03312025DL	1-Bromo-4-Fluorobenzene	10	10.4	104	70 (65)	130 (135)
Q1726-02DL2	IA-B2-6-03312025DL2	1-Bromo-4-Fluorobenzene	10	9.89	99	70 (65)	130 (135)
Q1726-03	IA-B2-2-03312025	1-Bromo-4-Fluorobenzene	10	9.94	99	70 (65)	130 (135)
Q1726-03DL	IA-B2-2-03312025DL	1-Bromo-4-Fluorobenzene	10	10.3	103	70 (65)	130 (135)
Q1726-03DL2	IA-B2-2-03312025DL2	1-Bromo-4-Fluorobenzene	10	9.99	100	70 (65)	130 (135)
Q1726-04	IA-B2-5-03312025	1-Bromo-4-Fluorobenzene	10	9.85	98	70 (65)	130 (135)
Q1726-04DL	IA-B2-5-03312025DL	1-Bromo-4-Fluorobenzene	10	10.3	103	70 (65)	130 (135)
Q1726-04DL2	IA-B2-5-03312025DL2	1-Bromo-4-Fluorobenzene	10	9.88	99	70 (65)	130 (135)
Q1726-05	IA-B2-1-03312025	1-Bromo-4-Fluorobenzene	10	9.97	100	70 (65)	130 (135)
Q1726-05DL	IA-B2-1-03312025DL	1-Bromo-4-Fluorobenzene	10	10.4	104	70 (65)	130 (135)
Q1726-05DL2	IA-B2-1-03312025DL2	1-Bromo-4-Fluorobenzene	10	10.2	102	70 (65)	130 (135)
Q1726-06	IA-B2-3-03312025	1-Bromo-4-Fluorobenzene	10	10.2	102	70 (65)	130 (135)
Q1726-06DL	IA-B2-3-03312025DL	1-Bromo-4-Fluorobenzene	10	10.3	103	70 (65)	130 (135)
Q1726-06DL2	IA-B2-3-03312025DL2	1-Bromo-4-Fluorobenzene	10	10.0	100	70 (65)	130 (135)
Q1726-06DL2D	IA-B2-3-03312025DL2DUP	1-Bromo-4-Fluorobenzene	10	10.2	102	70 (65)	130 (135)
Q1726-07	IA-B2-4-03312025	1-Bromo-4-Fluorobenzene	10	10.1	101	70 (65)	130 (135)
Q1726-07DL	IA-B2-4-03312025DL	1-Bromo-4-Fluorobenzene	10	10.1	101	70 (65)	130 (135)
Q1726-07DL2	IA-B2-4-03312025DL2	1-Bromo-4-Fluorobenzene	10	9.86	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)
VL0418ABL01	VL0418ABL01	1-Bromo-4-Fluorobenzene	10	9.79	98	70 (65)	130 (135)
VL0418ABS01	VL0418ABS01	1-Bromo-4-Fluorobenzene	10	10.0	100	70 (65)	130 (135)

( ) = LABORATORY INHOUSE LIMIT

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

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1726 **Analytical Method:** SWTO-15

Client: Woodard & Curran **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)	
	Ethanol	10	3.20	ppbv	32		*	70 (70)	130 (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)	
	Bromoethene	10	9.80	ppbv	98			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)	
	Isopropyl Alcohol	10	9.40	ppbv	94			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)	

( ) = LABORATORY INHOUSE LIMIT

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

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1726 **Analytical Method:** SWTO-15

Client: Woodard & Curran **Datafile :** VL042358.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VL0417ABS01	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)	
	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)	

( ) = LABORATORY INHOUSE LIMIT

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

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	**Q1726**	**Analytical Method:**	**SWTO-15**
Client:	**Woodard & Curran**	**Datafile :**	VL042385.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VL0418ABS01	Dichlorodifluoromethane	10	9.30	ppbv	93			40 (70)	160 (130)	
	Ethanol	10	2.30	ppbv	23		*	70 (70)	130 (130)	
	Chloromethane	10	8.60	ppbv	86			40 (70)	160 (130)	
	Vinyl Chloride	10	7.60	ppbv	76			70 (70)	130 (130)	
	Bromomethane	10	8.50	ppbv	85			40 (70)	160 (130)	
	Chloroethane	10	8.30	ppbv	83			40 (70)	160 (130)	
	Tetrahydrofuran	10	6.90	ppbv	69		*	70 (70)	130 (130)	
	Trichlorofluoromethane	10	9.50	ppbv	95			40 (70)	160 (130)	
	1,1,2-Trichlorotrifluoroethane	10	8.90	ppbv	89			70 (70)	130 (130)	
	Dichlorotetrafluoethane	10	9.10	ppbv	91			70 (70)	130 (130)	
	Bromoethene	10	9.10	ppbv	91			70 (70)	130 (130)	
	tert-Butyl Alcohol	10	8.20	ppbv	82			70 (70)	130 (130)	
	Heptane	10	6.80	ppbv	68		*	70 (70)	130 (130)	
	Isopropyl Alcohol	10	8.20	ppbv	82			70 (70)	130 (130)	
	1,1-Dichloroethene	10	8.70	ppbv	87			70 (70)	130 (130)	
	Acetone	10	7.30	ppbv	73			40 (70)	160 (130)	
	Carbon disulfide	10	8.70	ppbv	87			40 (70)	160 (130)	
	Methyl tert-butyl Ether	10	8.30	ppbv	83			70 (70)	130 (130)	
	Methylene Chloride	10	7.40	ppbv	74			70 (70)	130 (130)	
	trans-1,2-Dichloroethene	10	8.70	ppbv	87			70 (70)	130 (130)	
	1,1-Dichloroethane	10	8.90	ppbv	89			70 (70)	130 (130)	
	Cyclohexane	10	8.10	ppbv	81			70 (70)	130 (130)	
	2-Butanone	10	7.20	ppbv	72			40 (70)	160 (130)	
	Carbon Tetrachloride	10	8.60	ppbv	86			70 (70)	130 (130)	
	cis-1,2-Dichloroethene	10	8.60	ppbv	86			70 (70)	130 (130)	
	Chloroform	10	9.10	ppbv	91			70 (70)	130 (130)	
	1,1,1-Trichloroethane	10	8.90	ppbv	89			70 (70)	130 (130)	
	2,2,4-Trimethylpentane	10	7.20	ppbv	72			70 (70)	130 (130)	
	Benzene	10	7.70	ppbv	77			70 (70)	130 (130)	
	1,2-Dichloroethane	10	8.70	ppbv	87			70 (70)	130 (130)	
	Trichloroethene	10	7.60	ppbv	76			70 (70)	130 (130)	
	1,2-Dichloropropane	10	7.20	ppbv	72			70 (70)	130 (130)	
	Bromodichloromethane	10	8.50	ppbv	85			70 (70)	130 (130)	
	4-Methyl-2-Pentanone	10	6.40	ppbv	64			40 (70)	160 (130)	
	Toluene	10	7.60	ppbv	76			70 (70)	130 (130)	
	t-1,3-Dichloropropene	10	7.60	ppbv	76			70 (70)	130 (130)	
	cis-1,3-Dichloropropene	10	7.50	ppbv	75			70 (70)	130 (130)	
	1,1,2-Trichloroethane	10	8.20	ppbv	82			70 (70)	130 (130)	
	Dibromochloromethane	10	8.80	ppbv	88			70 (70)	130 (130)	
	1,2-Dibromoethane	10	8.20	ppbv	82			70 (70)	130 (130)	
	Tetrachloroethene	10	7.70	ppbv	77			70 (70)	130 (130)	
	Chlorobenzene	10	8.40	ppbv	84			70 (70)	130 (130)	
	Ethyl Benzene	10	8.10	ppbv	81			70 (70)	130 (130)	
	m/p-Xylene	20	16.4	ppbv	82			70 (70)	130 (130)	
	o-Xylene	10	8.20	ppbv	82			70 (70)	130 (130)	
	Styrene	10	8.20	ppbv	82			70 (70)	130 (130)	
	Bromoform	10	8.80	ppbv	88			70 (70)	130 (130)	
	1,1,2,2-Tetrachloroethane	10	7.30	ppbv	73			70 (70)	130 (130)	

( ) = LABORATORY INHOUSE LIMIT

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

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1726 **Analytical Method:** SWTO-15

Client: Woodard & Curran **Datafile :** VL042385.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VL0418ABS01	2-Chlorotoluene	10	8.20	ppbv	82			70 (70)	130 (130)	
	1,3,5-Trimethylbenzene	10	8.10	ppbv	81			70 (70)	130 (130)	
	1,2,4-Trimethylbenzene	10	7.70	ppbv	77			70 (70)	130 (130)	
	1,3-Dichlorobenzene	10	8.60	ppbv	86			70 (70)	130 (130)	
	1,4-Dichlorobenzene	10	8.50	ppbv	85			70 (70)	130 (130)	
	1,2-Dichlorobenzene	10	8.40	ppbv	84			70 (70)	130 (130)	
	1,2,4-Trichlorobenzene	10	8.40	ppbv	84			70 (70)	130 (130)	
	Hexachloro-1,3-butadiene	10	8.60	ppbv	86			70 (70)	130 (130)	
	Naphthalene	10	7.70	ppbv	77			40 (70)	160 (130)	
	1,3-Butadiene	10	7.60	ppbv	76			70 (70)	130 (130)	
	4-Ethyltoluene	10	8.30	ppbv	83			70 (70)	130 (130)	
	Hexane	10	7.60	ppbv	76			70 (70)	130 (130)	
	Allyl Chloride	10	8.00	ppbv	80			70 (70)	130 (130)	
	1,4-Dioxane	10	6.80	ppbv	68			40 (70)	160 (130)	
	Methyl methacrylate	10	6.90	ppbv	69		*	70 (70)	130 (130)	

( ) = LABORATORY INHOUSE LIMIT

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

Duplicate Sample Summary

Lab Sample Id :	Q1726-06DL2DUP		Q1726-06DL2	
Client Id :	IA-B2-3-03312025DL2DUI		IA-B2-3-03312025DL2	
DF :	100		100	
Datafile :	VL042393.D		VL042392.D	
Anal Date & Time :	04/18/2025	15:47	04/18/2025	15:16

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	0	0	0
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	0	0	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	0	0
2-Butanone	0	0	0
2-Chlorotoluene	0	0	0
4-Ethyltoluene	0	0	0
4-Methyl-2-Pentanone	0	0	0
Acetone	470	520	10.1
Allyl Chloride	0	0	0
Benzene	0	0	0
Bromodichloromethane	0	0	0
Bromoethene	0	0	0
Bromoform	0	0	0
Bromomethane	0	0	0
Carbon Disulfide	0	0	0

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

Duplicate Sample Summary

Lab Sample Id :	Q1726-06DL2DUP		Q1726-06DL2	
Client Id :	IA-B2-3-03312025DL2DUl		IA-B2-3-03312025DL2	
DF :	100		100	
Datafile :	VL042393.D		VL042392.D	
Anal Date & Time :	04/18/2025	15:47	04/18/2025	15:16

Parameter	Result	Result	RPD
Carbon Tetrachloride	0	0	0
Chlorobenzene	0	0	0
Chloroethane	0	0	0
Chloroform	0	0	0
Chloromethane	0	0	0
cis-1,2-Dichloroethene	0	0	0
cis-1,3-Dichloropropene	0	0	0
Cyclohexane	0	0	0
Dibromochloromethane	0	0	0
Dichlorodifluoromethane	0	0	0
Dichlorotetrafluoroethane	0	0	0
Ethanol	220	290	27.5 *
Ethyl Benzene	0	0	0
Heptane	0	0	0
Hexachloro-1,3-Butadiene	0	0	0
Hexane	0	0	0
Isopropyl Alcohol	30.1	35.1	15.3
m/p-Xylene	0	0	0
Methyl Methacrylate	0	0	0
Methyl tert-Butyl Ether	0	0	0
Methylene Chloride	0	0	0
Naphthalene	0	0	0
o-Xylene	0	0	0
Styrene	0	0	0
t-1,3-Dichloropropene	0	0	0
tert-Butyl alcohol	0	0	0
Tetrachloroethene	0	0	0
Tetrahydrofuran	0	0	0
Toluene	13.5	14.1	4.3
trans-1,2-Dichloroethene	0	0	0
Trichloroethene	0	0	0

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

Duplicate Sample Summary

Lab Sample Id :	Q1726-06DL2DUP		Q1726-06DL2	
Client Id :	IA-B2-3-03312025DL2DUl		IA-B2-3-03312025DL2	
DF :	100		100	
Datafile :	VL042393.D		VL042392.D	
Anal Date & Time :	04/18/2025	15:47	04/18/2025	15:16

Parameter	Result	Result	RPD
Trichlorofluoromethane	0	0	0
Vinyl Chloride	0	0	0

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

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VL0417ABL01

Lab Name: CHEMTECH Contract: WOOD06

Lab Code: CHEM Case No.: Q1726 SAS No.: Q1726 SDG NO.: Q1726

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-DUP-3-03312025	Q1726-01	VL042366.D	04/17/2025
IA-B2-6-03312025	Q1726-02	VL042367.D	04/17/2025
IA-B2-2-03312025	Q1726-03	VL042368.D	04/17/2025
IA-B2-5-03312025	Q1726-04	VL042369.D	04/17/2025
IA-B2-1-03312025	Q1726-05	VL042370.D	04/17/2025
IA-B2-3-03312025	Q1726-06	VL042371.D	04/17/2025
IA-B2-4-03312025	Q1726-07	VL042372.D	04/17/2025
IA-B2-4-03312025DL	Q1726-07DL	VL042373.D	04/17/2025
IA-DUP-3-03312025DL	Q1726-01DL	VL042376.D	04/18/2025
IA-B2-6-03312025DL	Q1726-02DL	VL042377.D	04/18/2025
IA-B2-2-03312025DL	Q1726-03DL	VL042378.D	04/18/2025
IA-B2-5-03312025DL	Q1726-04DL	VL042379.D	04/18/2025
IA-B2-1-03312025DL	Q1726-05DL	VL042380.D	04/18/2025
IA-B2-3-03312025DL	Q1726-06DL	VL042381.D	04/18/2025

COMMENTS:

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

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VL0418ABL01

Lab Name: CHEMTECH Contract: WOOD06

Lab Code: CHEM Case No.: Q1726 SAS No.: Q1726 SDG NO.: Q1726

Lab File ID: VL042384.D Lab Sample ID: VL0418ABL01

Date Analyzed: 04/18/2025 Time Analyzed: 10:54

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
VL0418ABS01	VL0418ABS01	VL042385.D	04/18/2025
IA-B2-4-03312025DL2	Q1726-07DL2	VL042386.D	04/18/2025
IA-DUP-3-03312025DL2	Q1726-01DL2	VL042387.D	04/18/2025
IA-B2-6-03312025DL2	Q1726-02DL2	VL042388.D	04/18/2025
IA-B2-5-03312025DL2	Q1726-04DL2	VL042389.D	04/18/2025
IA-B2-2-03312025DL2	Q1726-03DL2	VL042390.D	04/18/2025
IA-B2-1-03312025DL2	Q1726-05DL2	VL042391.D	04/18/2025
IA-B2-3-03312025DL2	Q1726-06DL2	VL042392.D	04/18/2025
IA-B2-3-03312025DL2DUP	Q1726-06DL2DUP	VL042393.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.: Q1726 SAS No.: Q1726 SDG NO.: Q1726

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-DUP-3-03312025	Q1726-01	VL042366.D	04/17/2025	20:05
IA-B2-6-03312025	Q1726-02	VL042367.D	04/17/2025	20:38
IA-B2-2-03312025	Q1726-03	VL042368.D	04/17/2025	21:12
IA-B2-5-03312025	Q1726-04	VL042369.D	04/17/2025	21:45
IA-B2-1-03312025	Q1726-05	VL042370.D	04/17/2025	22:19
IA-B2-3-03312025	Q1726-06	VL042371.D	04/17/2025	22:52
IA-B2-4-03312025	Q1726-07	VL042372.D	04/17/2025	23:26
IA-B2-4-03312025DL	Q1726-07DL	VL042373.D	04/17/2025	23:57
IA-DUP-3-03312025DL	Q1726-01DL	VL042376.D	04/18/2025	01:30

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.: Q1726 SAS No.: Q1726 SDG NO.: Q1726

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
IA-B2-6-03312025DL	Q1726-02DL	VL042377.D	04/18/2025	02:01
IA-B2-2-03312025DL	Q1726-03DL	VL042378.D	04/18/2025	02:32
IA-B2-5-03312025DL	Q1726-04DL	VL042379.D	04/18/2025	03:03
IA-B2-1-03312025DL	Q1726-05DL	VL042380.D	04/18/2025	03:34
IA-B2-3-03312025DL	Q1726-06DL	VL042381.D	04/18/2025	04:05

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.: Q1726 SAS No.: Q1726 SDG NO.: Q1726

Lab File ID: VL042382.D BFB Injection Date: 04/18/2025

Instrument ID: MSVOA_L BFB Injection Time: 07:51

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	23.9
75	30.0 - 66.0% of mass 95	62.9
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.9
173	Less than 2.0% of mass 174	0.3 (0.5) 1
174	50.0 - 120.0% of mass 95	63.4
175	4.0 - 9.0% of mass 174	4.6 (7.2) 1
176	93.0 - 101.0% of mass 174	58.9 (93) 1
177	5.0 - 9.0% of mass 176	3.8 (6.5) 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
VSTDCCC010	VSTDCCC010	VL042383.D	04/18/2025	10:23
VL0418ABL01	VL0418ABL01	VL042384.D	04/18/2025	10:54
VL0418ABS01	VL0418ABS01	VL042385.D	04/18/2025	11:38
IA-B2-4-03312025DL2	Q1726-07DL2	VL042386.D	04/18/2025	12:09
IA-DUP-3-03312025DL2	Q1726-01DL2	VL042387.D	04/18/2025	12:41
IA-B2-6-03312025DL2	Q1726-02DL2	VL042388.D	04/18/2025	13:12
IA-B2-5-03312025DL2	Q1726-04DL2	VL042389.D	04/18/2025	13:43
IA-B2-2-03312025DL2	Q1726-03DL2	VL042390.D	04/18/2025	14:14
IA-B2-1-03312025DL2	Q1726-05DL2	VL042391.D	04/18/2025	14:45
IA-B2-3-03312025DL2	Q1726-06DL2	VL042392.D	04/18/2025	15:16
IA-B2-3-03312025DL2DUP	Q1726-06DL2DUP	VL042393.D	04/18/2025	15:47

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.: Q1726 SAS No.: Q1726 SDG NO.: Q1726

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-DUP-3-03312025	122216	2.79	344823	3.96	303405	8.88
IA-DUP-3-03312025DL	100356	2.79	288404	3.96	249449	8.88
IA-B2-6-03312025	117602	2.79	335422	3.96	296955	8.88
IA-B2-6-03312025DL	99418	2.78	272592	3.96	237645	8.88
IA-B2-2-03312025	119191	2.79	333003	3.96	297493	8.88
IA-B2-2-03312025DL	92120	2.79	265690	3.96	228865	8.88
IA-B2-5-03312025	115766	2.79	331154	3.96	288378	8.88
IA-B2-5-03312025DL	92518	2.78	260556	3.96	221578	8.88
IA-B2-1-03312025	113751	2.79	331268	3.96	291013	8.88
IA-B2-1-03312025DL	90034	2.79	252514	3.96	219443	8.88
IA-B2-3-03312025	113154	2.79	322735	3.96	284478	8.88
IA-B2-3-03312025DL	87593	2.78	246915	3.95	211054	8.88
IA-B2-4-03312025	110448	2.79	317011	3.96	275197	8.88
IA-B2-4-03312025DL	107602	2.78	303479	3.95	266154	8.88
VL0417ABL01	113566	2.79	328716	3.97	297633	8.89
VL0417ABS01	122375	2.79	352201	3.97	321521	8.89

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.: Q1726 SAS No.: Q1726 SDG NO.: Q1726

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.						

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.

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.: Q1726 SAS No.: Q1726 SDG NO.: Q1726

Lab File ID: VL042383.D Date Analyzed: 04/18/2025

Instrument ID: MSVOA_L Time Analyzed: 10:23

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	135964	2.78	427541	3.95	379215	8.88
UPPER LIMIT	190350	3.11	598557	4.28	530901	9.21
LOWER LIMIT	81578.4	2.45	256525	3.62	227529	8.55
EPA SAMPLE NO.						
IA-DUP-3-03312025DL2	133179	2.78	411086	3.95	357783	8.88
IA-B2-6-03312025DL2	132986	2.78	409322	3.95	354583	8.88
IA-B2-2-03312025DL2	127324	2.79	395389	3.96	342875	8.89
IA-B2-5-03312025DL2	134501	2.79	412843	3.96	353048	8.89
IA-B2-1-03312025DL2	125703	2.79	390416	3.96	327579	8.88
IA-B2-3-03312025DL2	121646	2.79	379829	3.97	325040	8.89
IA-B2-3-03312025DL2DUP	123948	2.79	373006	3.97	318921	8.89
IA-B2-4-03312025DL2	137576	2.79	424572	3.96	368674	8.88
VL0418ABL01	137116	2.78	425910	3.96	379163	8.88
VL0418ABS01	137596	2.78	421834	3.95	371546	8.88

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:	04/01/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	IA-DUP-3-03312025	SDG No.:	Q1726
Lab Sample ID:	Q1726-01	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
VL042366.D	1		04/17/25 20:05	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
64-17-5	Ethanol	250	471	EQ	0.60	0.94	ug/m3
74-87-3	Chloromethane	0.58	1.20		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
593-60-2	Bromoethene	0.12	0.52	U	0.52	2.19	ug/m3
75-65-0	tert-Butyl alcohol	0.53	1.61		0.58	1.52	ug/m3
142-82-5	Heptane	8.30	34.0		0.45	2.05	ug/m3
67-63-0	Isopropyl Alcohol	28.5	70.1	E	0.17	1.23	ug/m3
75-35-4	1,1-Dichloroethene	0.14	0.56	U	0.56	1.98	ug/m3
67-64-1	Acetone	150	356	E	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	2.10	7.30		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	2.00	6.88		0.76	1.72	ug/m3
78-93-3	2-Butanone	1.10	3.24		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	18.2	85.0	E	0.47	2.34	ug/m3
71-43-2	Benzene	1.70	5.43		0.29	1.60	ug/m3
107-06-2	1,2-Dichloroethane	0.16	0.65	J	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	49.2	185	E	0.41	1.88	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:	04/01/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	IA-DUP-3-03312025	SDG No.:	Q1726
Lab Sample ID:	Q1726-01	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
VL042366.D	1		04/17/25 20:05	VL041725

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
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
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	0.10	0.68		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	11.1	48.2		0.52	2.17	ug/m3
179601-23-1	m/p-Xylene	38.4	167	E	0.91	4.34	ug/m3
95-47-6	o-Xylene	15.5	67.3	E	0.52	2.17	ug/m3
100-42-5	Styrene	0.35	1.49	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	0.96	4.97		0.57	2.59	ug/m3
108-67-8	1,3,5-Trimethylbenzene	7.00	34.4		0.54	2.46	ug/m3
95-63-6	1,2,4-Trimethylbenzene	19.3	94.9	E	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	0.26	1.56	J	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	2.30	12.1		0.42	0.52	ug/m3
622-96-8	4-Ethyltoluene	5.70	28.0		0.59	2.46	ug/m3
110-54-3	Hexane	4.70	16.6		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	10.1			70 (65) - 130 (135)	101%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	122000		2.787			
540-36-3	1,4-Difluorobenzene	345000		3.959			
3114-55-4	Chlorobenzene-d5	303000		8.882			
TENTITIVE IDENTIFIED COMPOUNDS							

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

Report of Analysis

Client:	Woodard & Curran	Date Collected:	04/01/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	IA-DUP-3-03312025	SDG No.:	Q1726
Lab Sample ID:	Q1726-01	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
VL042366.D	1		04/17/25 20:05	VL041725

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
75-45-6	Chlorodifluoromethane	0.25		J		1.47	ppbv
115-07-1	Propene	2.50		J		1.49	ppbv
000106-97-8	Butane	7.90		J		1.62	ppbv
000591-76-4	Hexane, 2-methyl-	10.4		J		4.05	ppbv
000589-34-4	Hexane, 3-methyl-	11.2		J		4.27	ppbv
000108-87-2	Cyclohexane, methyl-	9.30		J		5.67	ppbv
000592-13-2	Hexane, 2,5-dimethyl-	6.50		J		6.21	ppbv
000565-75-3	Pentane, 2,3,4-trimethyl-	12.5		J		6.83	ppbv
000589-81-1	Heptane, 3-methyl-	9.50		J		7.60	ppbv
000111-65-9	Octane	9.70		J		8.30	ppbv
98-82-8	Isopropylbenzene	0.99		J		10.5	ppbv
103-65-1	n-propylbenzene	3.30		J		11.0	ppbv
000611-14-3	Benzene, 1-ethyl-2-methyl-	7.00		J		11.3	ppbv
135-98-8	sec-Butylbenzene	0.24		J		11.8	ppbv
99-87-6	p-Isopropyltoluene	0.38		J		11.9	ppbv
104-51-8	n-Butylbenzene	1.30		J		12.3	ppbv
000933-98-2	Benzene, 1-ethyl-2,3-dimethyl-	7.60		J		12.6	ppbv
91-57-6	Naphthalene,2-methyl-	1.20		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 : VL042366.D
Acq On : 17 Apr 2025 20:05
Operator : SY/MD
Sample : Q1726-01
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 18 02:42:22 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-DUP-3-03312025

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	122216	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.959	114	344823	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.882	117	303405	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.377	95	252701	10.136	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 101.400%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.499	85	10356	0.480	ppbv		94
3) Chlorodifluoromethane	1.473	51	5062m	0.246	ppbv		
4) Chloromethane	1.531	50	4947	0.579	ppbv		94
9) Propene	1.489	41	23550m	2.515	ppbv		
10) Heptane	4.978	43	219183	8.331	ppbv		97
11) Trichlorofluoromethane	1.877	101	5014	0.244	ppbv		93
13) Ethanol	1.722	45	370679	249.050	ppbv		75
15) Acetone	1.835	43	3072130	153.552	ppbv	#	43
17) tert-Butyl alcohol	2.046	59	13005	0.525	ppbv	#	61
19) Isopropyl Alcohol	1.887	45	316355	28.464	ppbv	#	33
20) Methylene Chloride	2.062	84	16692	2.130	ppbv		91
26) Hexane	2.826	57	94163	4.717	ppbv	#	36
30) Cyclohexane	3.855	84	31546	1.955	ppbv	#	88
34) 2-Butanone	2.560	43	30497	1.118	ppbv		99
35) Carbon Tetrachloride	3.755	117	2352m	0.075	ppbv		
36) Benzene	3.654	78	64219	1.727	ppbv		97
37) 1,2-Dichloroethane	3.221	62	3653m	0.164	ppbv		
44) 2,2,4-Trimethylpentane	4.642	57	1167050	18.168	ppbv		95
52) Tetrachloroethene	8.231	164	1477m	0.103	ppbv		
53) Toluene	6.940	91	2194341	49.165	ppbv		99
58) Ethyl Benzene	9.357	91	668072	11.113	ppbv		99
59) m/p-Xylene	9.535	91	1861243	38.435	ppbv		100
60) o-Xylene	9.966	91	753743	15.456	ppbv		99
61) Styrene	9.872	104	8179	0.351	ppbv		92
62) Isopropylbenzene	10.539	105	70653	0.987	ppbv		99
64) n-propylbenzene	10.992	120	59824	3.324	ppbv		92
67) sec-Butylbenzene	11.769	105	21870	0.239	ppbv	#	82
69) p-Isopropyltoluene	11.927	119	29958	0.377	ppbv		98
70) n-Butylbenzene	12.283	91	106745m	1.289	ppbv		
71) 2-Chlorotoluene	10.901	91	53769	0.958	ppbv		99
72) 4-Ethyltoluene	11.128	105	338919	5.685	ppbv	#	56
73) 1,3,5-Trimethylbenzene	11.205	105	368859	7.008	ppbv		99
74) 1,2,4-Trimethylbenzene	11.539	105	1184512	19.268	ppbv	#	66
76) 1,4-Dichlorobenzene	11.672	146	8250	0.257	ppbv	#	36
79) Naphthalene	13.513	128	171574	2.334	ppbv		99
80) Naphthalene,2-methyl-	14.458	142	52010m	1.241	ppbv		

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

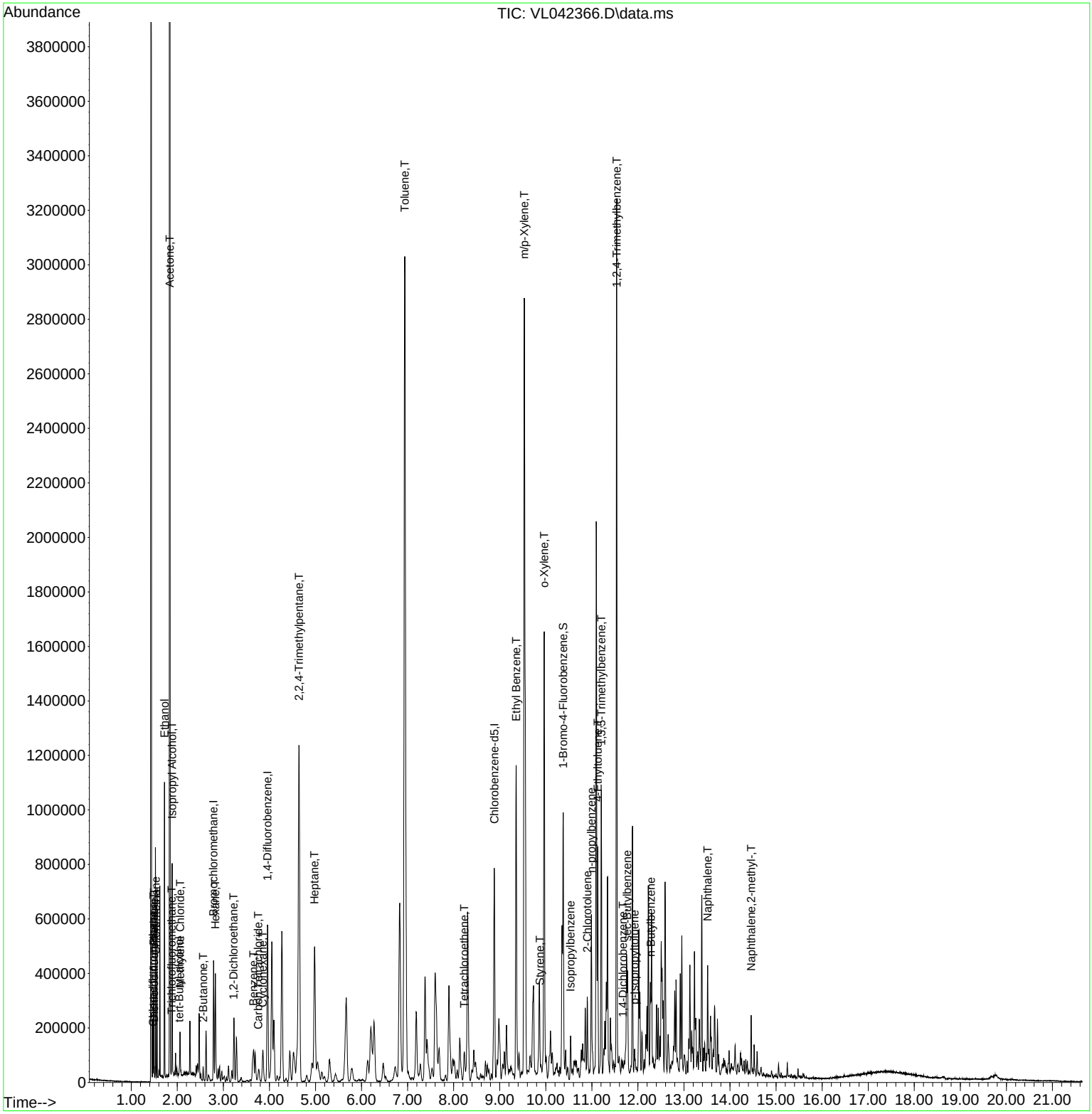
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042366.D
Acq On : 17 Apr 2025 20:05
Operator : SY/MD
Sample : Q1726-01
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

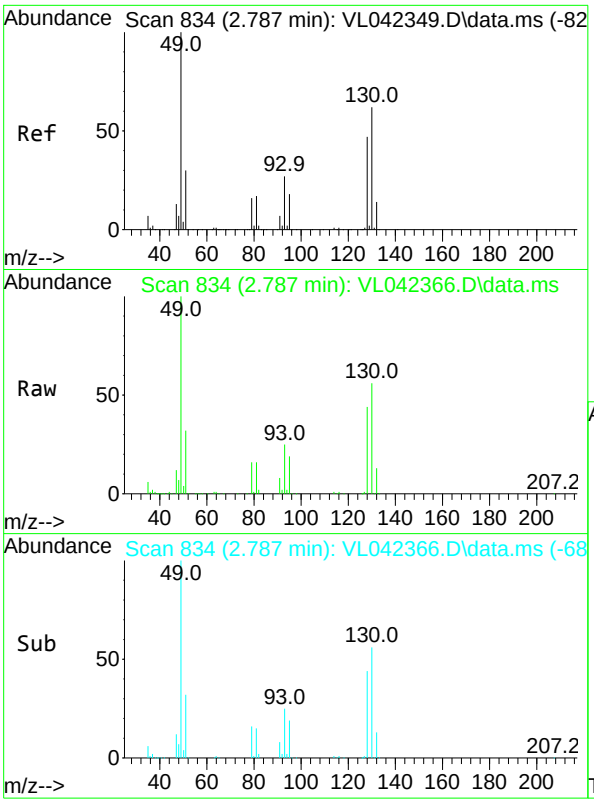
Quant Time: Apr 18 02:42:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025

Manual Integrations APPROVED

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

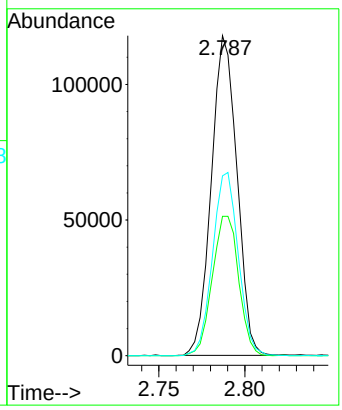




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL042366.D
Acq: 17 Apr 2025 20:05

Tgt Ion: 49 Resp: 12221

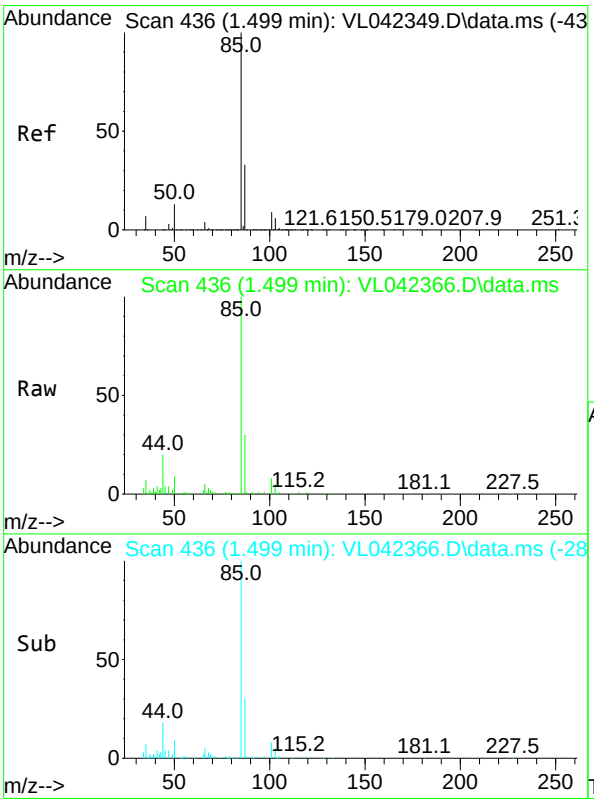
Ion	Ratio	Lower	Upper
49	100		
128	44.9	22.8	68.4
130	57.5	29.3	88.0



Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025

Manual Integrations
APPROVED

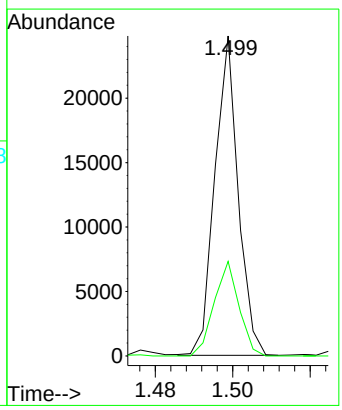
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

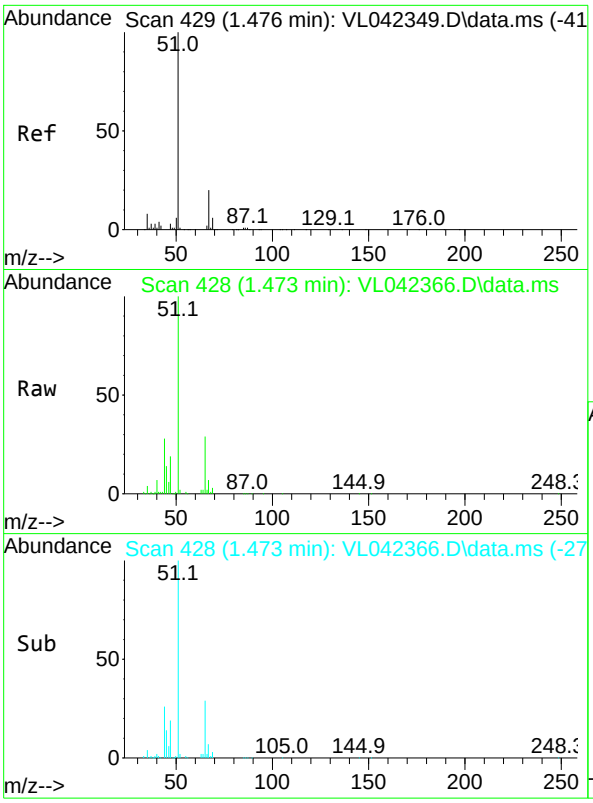


#2
Dichlorodifluoromethane
Concen: 0.480 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.000 min
Lab File: VL042366.D
Acq: 17 Apr 2025 20:05

Tgt Ion: 85 Resp: 10356

Ion	Ratio	Lower	Upper
85	100		
87	29.6	26.6	39.8

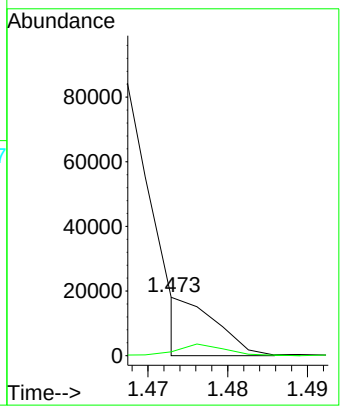




#3
Chlorodifluoromethane
Concen: 0.246 ppbv m
RT: 1.473 min Scan# 4
Delta R.T. -0.003 min
Lab File: VL042366.D
Acq: 17 Apr 2025 20:05

Tgt Ion: 51 Resp: 506

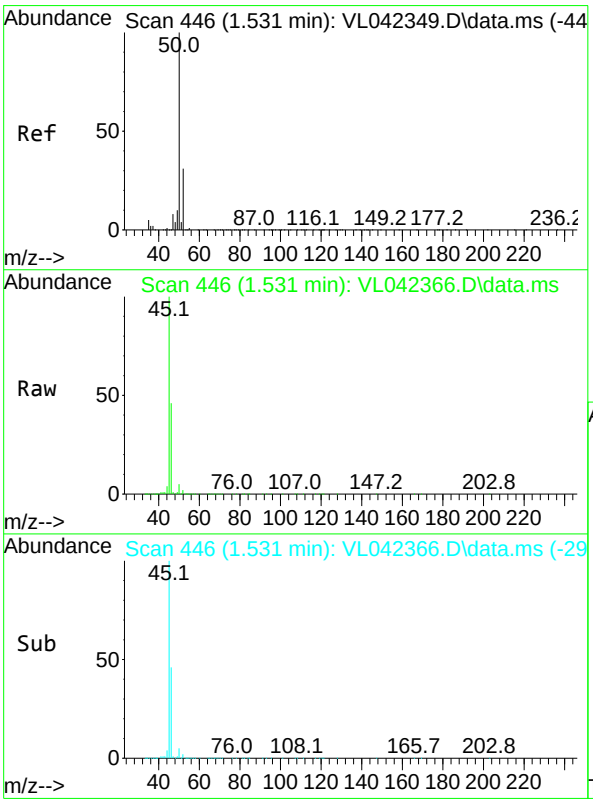
Ion	Ratio	Lower	Upper
51	100		
67	36.1	16.2	24.4



Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025

Manual Integrations
APPROVED

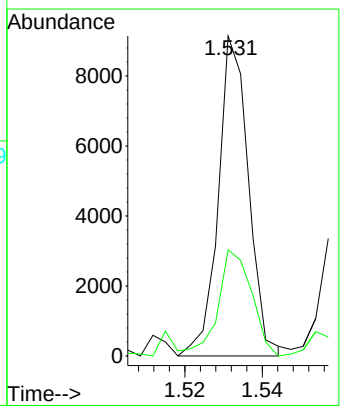
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

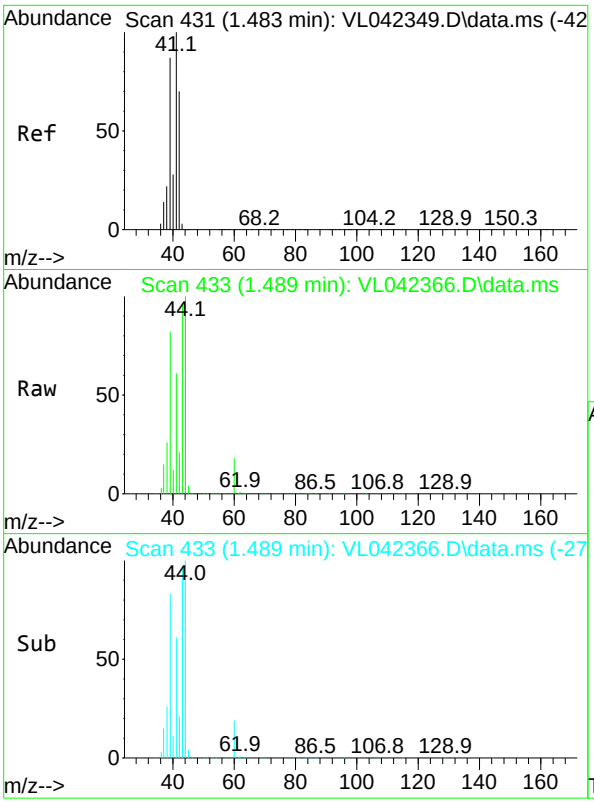


#4
Chloromethane
Concen: 0.579 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL042366.D
Acq: 17 Apr 2025 20:05

Tgt Ion: 50 Resp: 4947

Ion	Ratio	Lower	Upper
50	100		
52	34.2	24.7	37.1

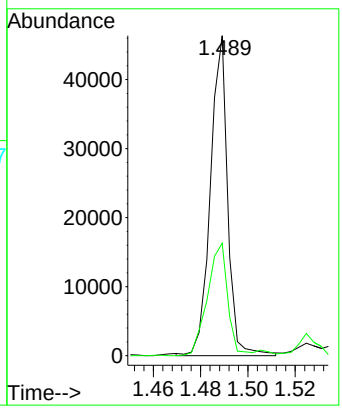




#9
Propene
Concen: 2.515 ppbv m
RT: 1.489 min Scan# 4
Delta R.T. 0.006 min
Lab File: VL042366.D
Acq: 17 Apr 2025 20:05

Tgt Ion: 41 Resp: 2355

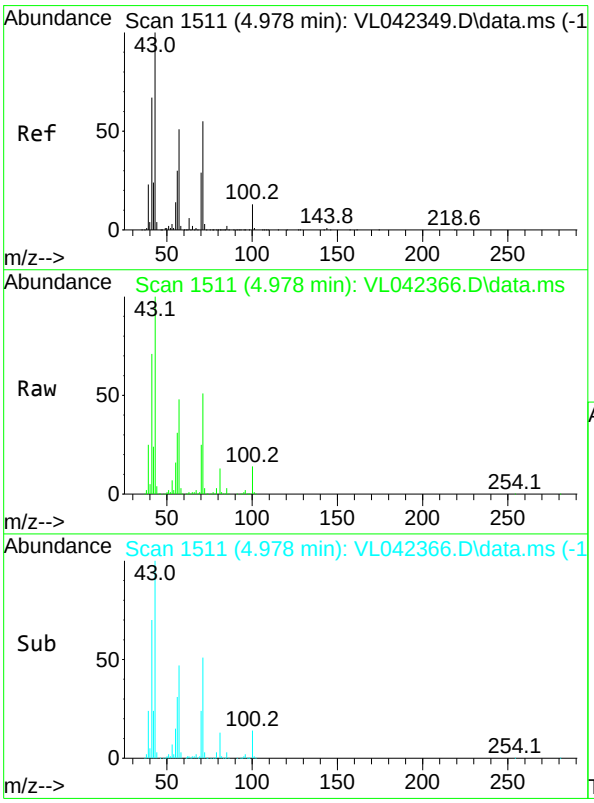
Ion	Ratio	Lower	Upper
41	100		
42	220.9	56.2	84.4



Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025

Manual Integrations
APPROVED

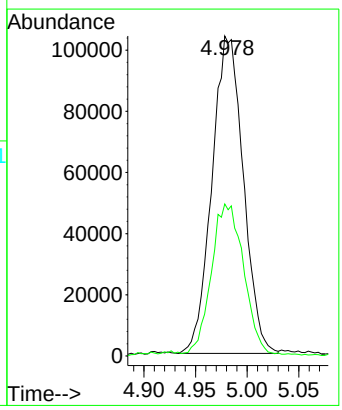
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

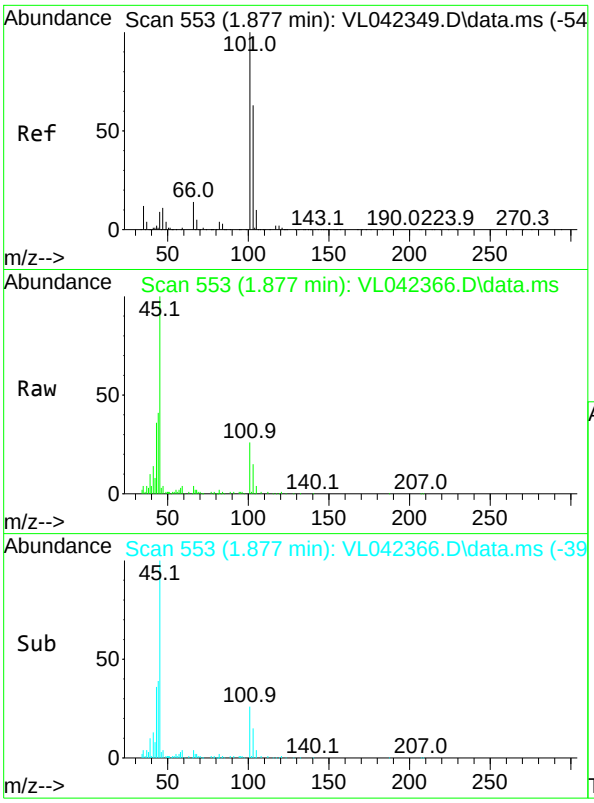


#10
Heptane
Concen: 8.331 ppbv
RT: 4.978 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VL042366.D
Acq: 17 Apr 2025 20:05

Tgt Ion: 43 Resp: 219183

Ion	Ratio	Lower	Upper
43	100		
57	51.9	39.9	59.9

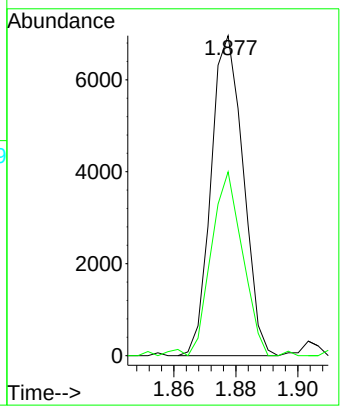




#11
Trichlorofluoromethane
Concen: 0.244 ppbv
RT: 1.877 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL042366.D
Acq: 17 Apr 2025 20:05

Tgt Ion:101 Resp: 501

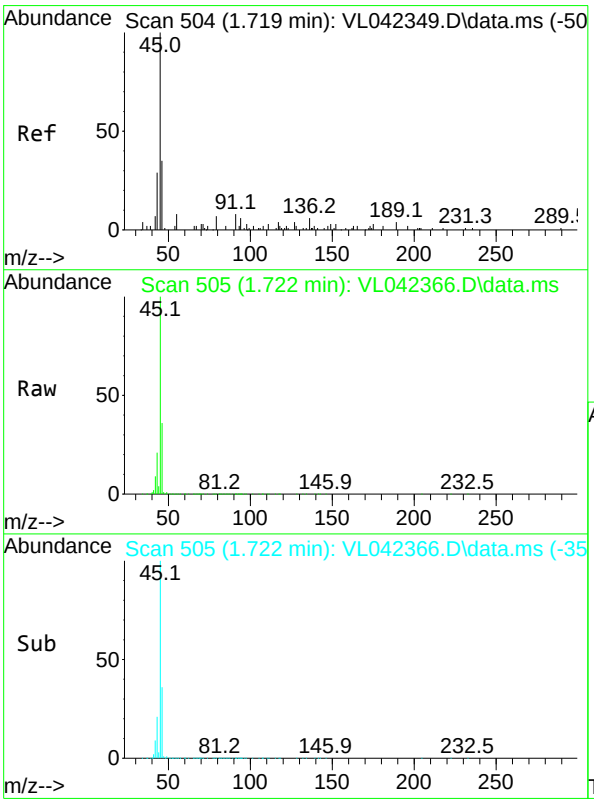
Ion	Ratio	Lower	Upper
101	100		
103	57.5	50.1	75.1



Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025

Manual Integrations
APPROVED

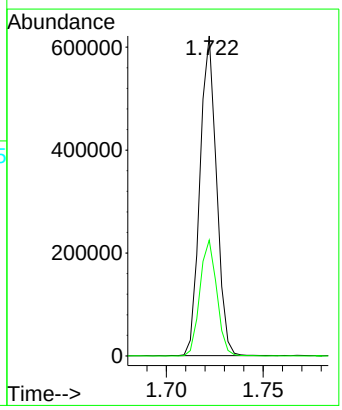
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

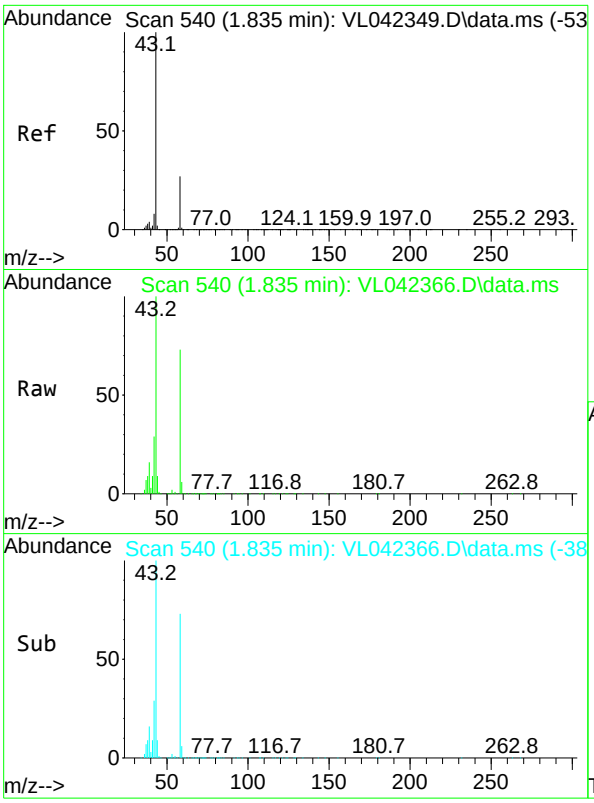


#13
Ethanol
Concen: 249.050 ppbv
RT: 1.722 min Scan# 505
Delta R.T. 0.003 min
Lab File: VL042366.D
Acq: 17 Apr 2025 20:05

Tgt Ion: 45 Resp: 370679

Ion	Ratio	Lower	Upper
45	100		
46	37.1	21.9	87.7

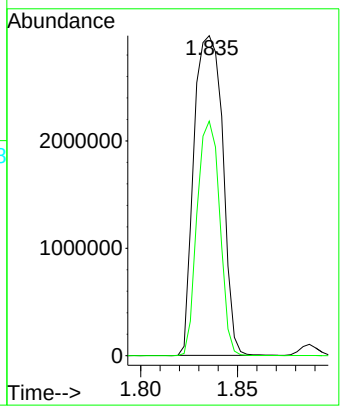




#15
Acetone
Concen: 153.552 ppbv
RT: 1.835 min Scan# 54
Delta R.T. 0.000 min
Lab File: VL042366.D
Acq: 17 Apr 2025 20:05

Tgt Ion: 43 Resp: 307213

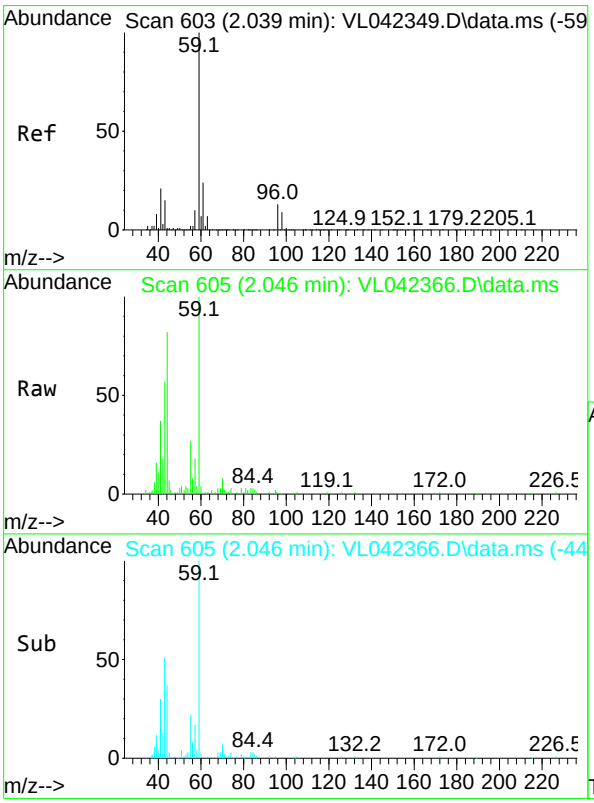
Ion	Ratio	Lower	Upper
43	100		
58	58.0	22.4	33.6#



Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025

Manual Integrations
APPROVED

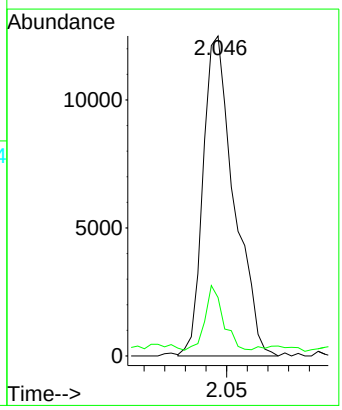
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

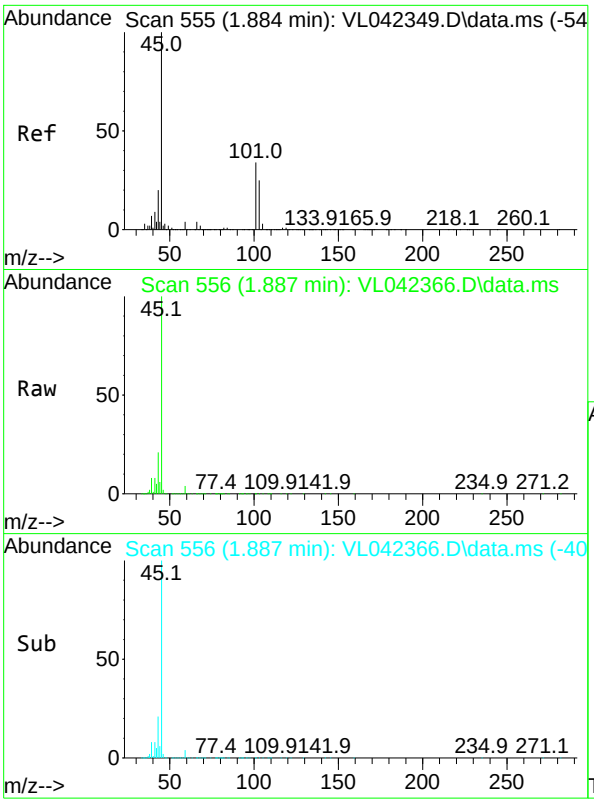


#17
tert-Butyl alcohol
Concen: 0.525 ppbv
RT: 2.046 min Scan# 605
Delta R.T. 0.007 min
Lab File: VL042366.D
Acq: 17 Apr 2025 20:05

Tgt Ion: 59 Resp: 13005

Ion	Ratio	Lower	Upper
59	100		
57	25.8	8.7	13.1#

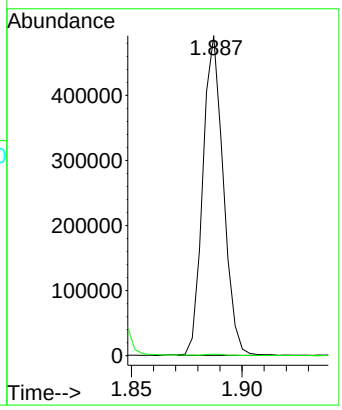




#19
Isopropyl Alcohol
Concen: 28.464 ppbv
RT: 1.887 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042366.D
Acq: 17 Apr 2025 20:05

Tgt Ion: 45 Resp: 31635

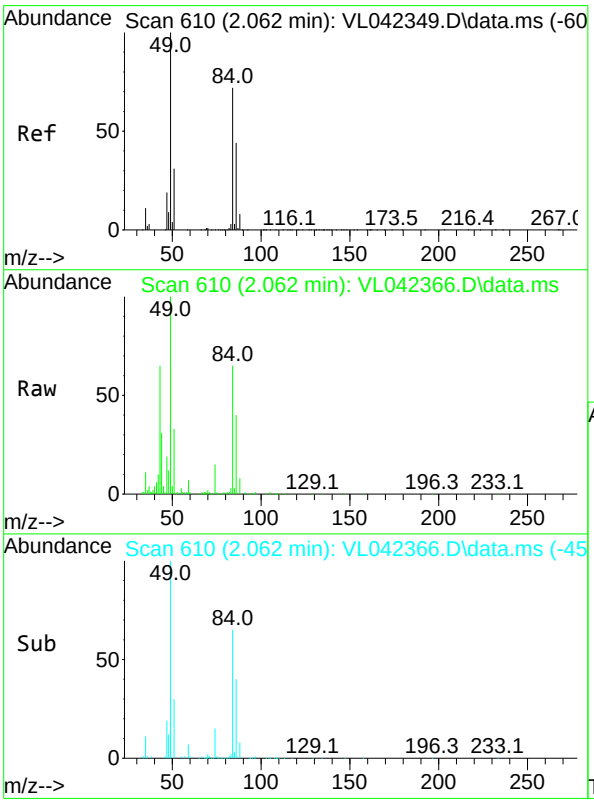
Ion	Ratio	Lower	Upper
45	100		
58	0.0	34.5	51.7#



Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025

Manual Integrations
APPROVED

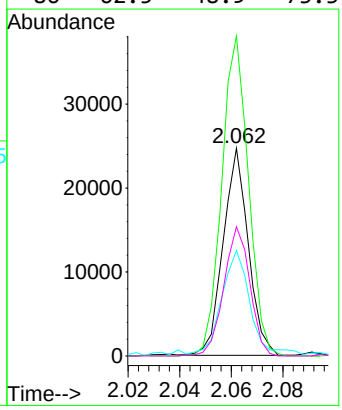
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

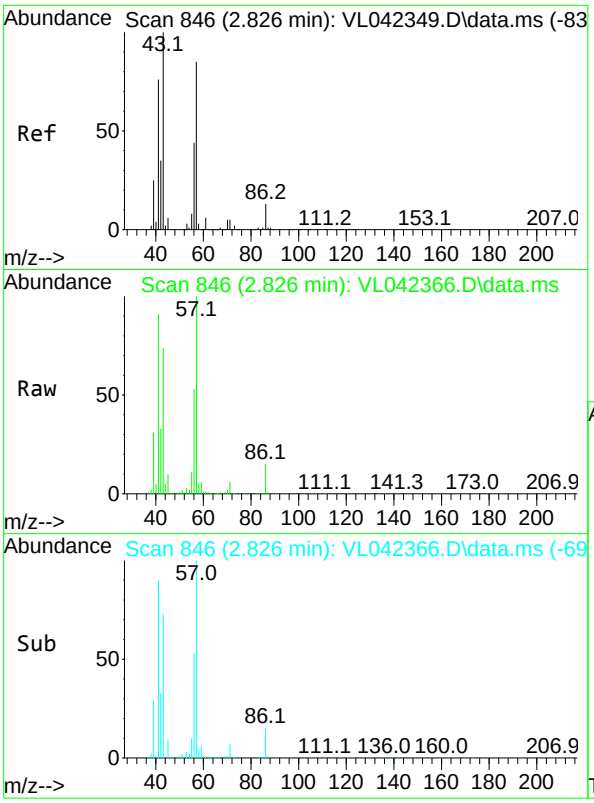


#20
Methylene Chloride
Concen: 2.130 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.000 min
Lab File: VL042366.D
Acq: 17 Apr 2025 20:05

Tgt Ion: 84 Resp: 16692

Ion	Ratio	Lower	Upper
84	100		
49	154.6	111.6	167.4
51	48.0	35.1	52.7
86	62.5	48.9	73.3

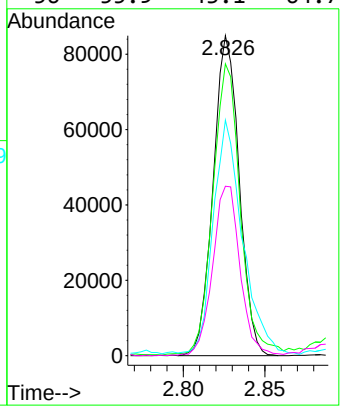




#26
Hexane
Concen: 4.717 ppbv
RT: 2.826 min Scan# 84
Delta R.T. 0.000 min
Lab File: VL042366.D
Acq: 17 Apr 2025 20:05

Tgt Ion: 57 Resp: 9416

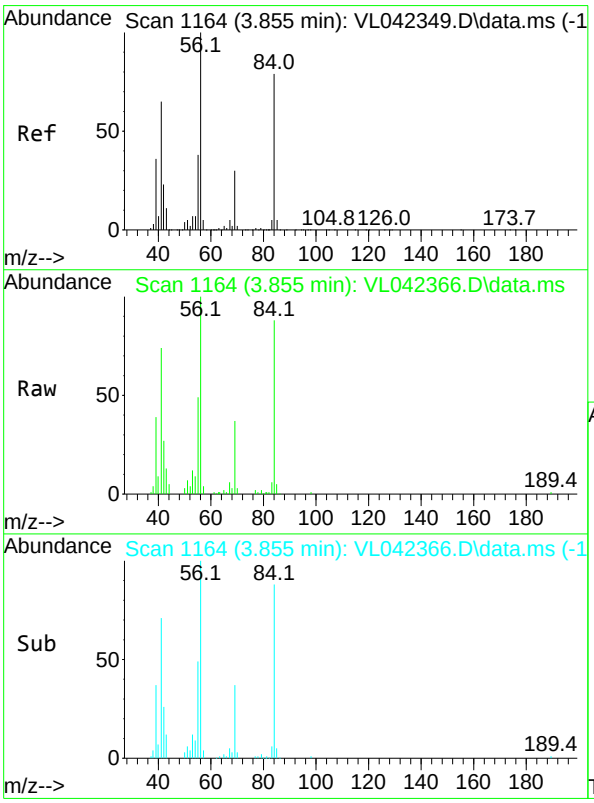
Ion	Ratio	Lower	Upper
57	100		
41	95.7	77.9	116.9
43	83.0	208.4	312.6#
56	55.9	43.1	64.7



Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025

Manual Integrations
APPROVED

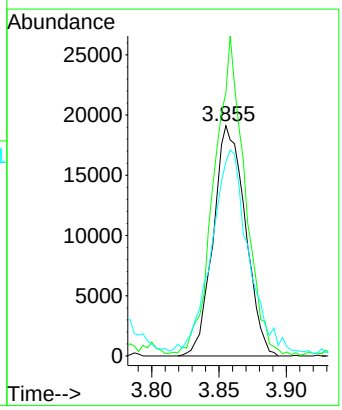
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

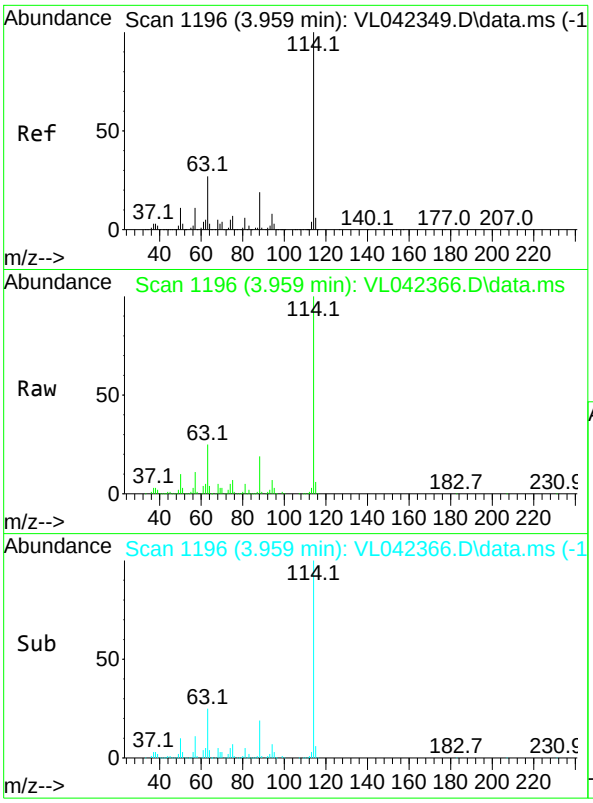


#30
Cyclohexane
Concen: 1.955 ppbv
RT: 3.855 min Scan# 1164
Delta R.T. 0.000 min
Lab File: VL042366.D
Acq: 17 Apr 2025 20:05

Tgt Ion: 84 Resp: 31546

Ion	Ratio	Lower	Upper
84	100		
56	133.1	101.0	151.4
41	102.4	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: VL042366.D
Acq: 17 Apr 2025 20:05

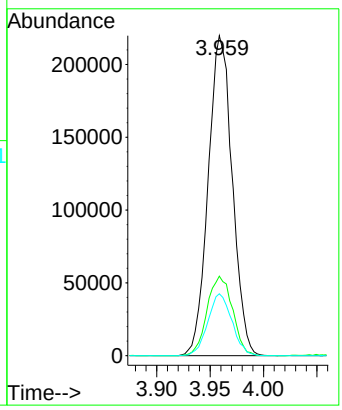
Tgt Ion:114 Resp: 34482

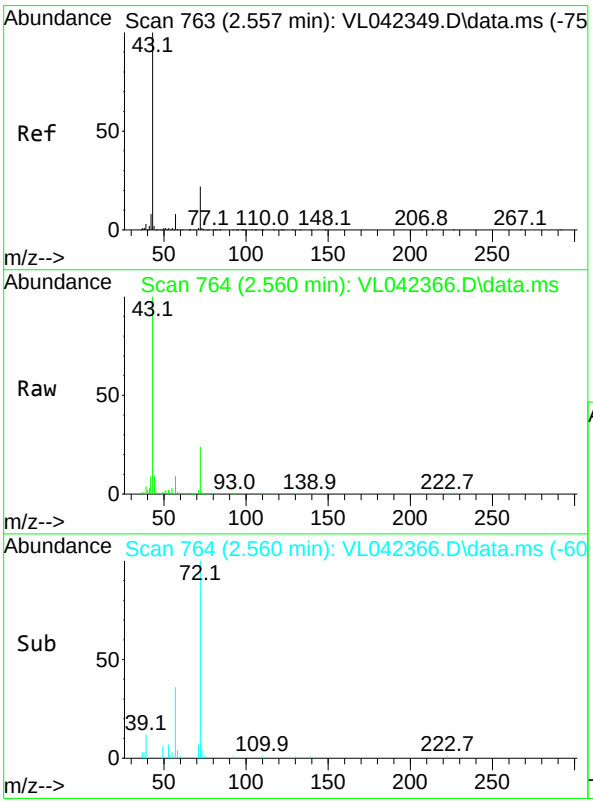
Ion	Ratio	Lower	Upper
114	100		
63	26.2	21.8	32.6
88	19.3	15.5	23.3

Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025

Manual Integrations
APPROVED

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

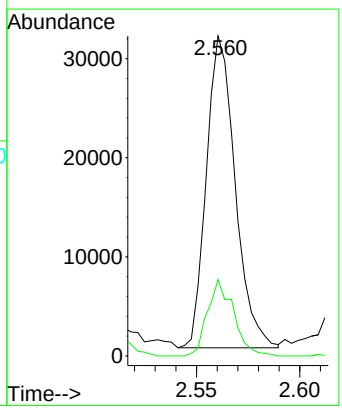


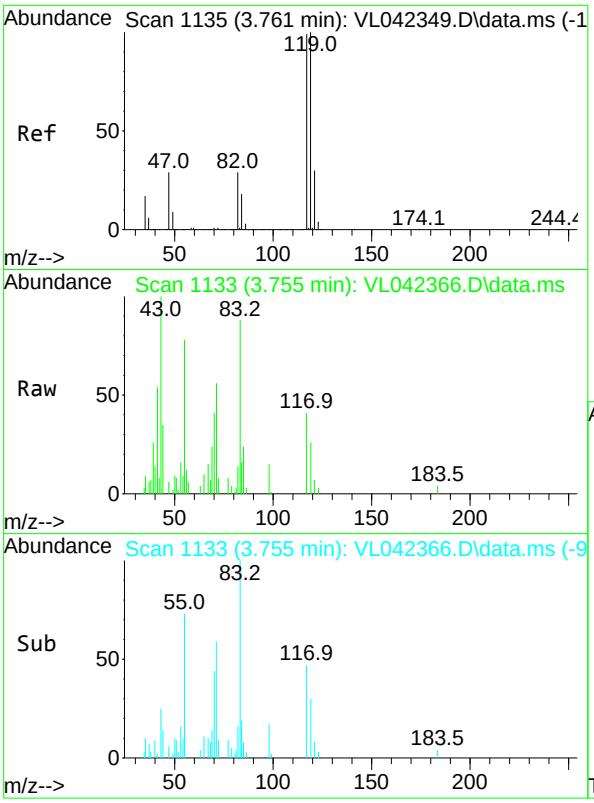


#34
2-Butanone
Concen: 1.118 ppbv
RT: 2.560 min Scan# 764
Delta R.T. 0.003 min
Lab File: VL042366.D
Acq: 17 Apr 2025 20:05

Tgt Ion: 43 Resp: 30497

Ion	Ratio	Lower	Upper
43	100		
72	22.3	18.2	27.2





#35
Carbon Tetrachloride
Concen: 0.075 ppbv m
RT: 3.755 min Scan# 1
Delta R.T. -0.006 min
Lab File: VL042366.D
Acq: 17 Apr 2025 20:05

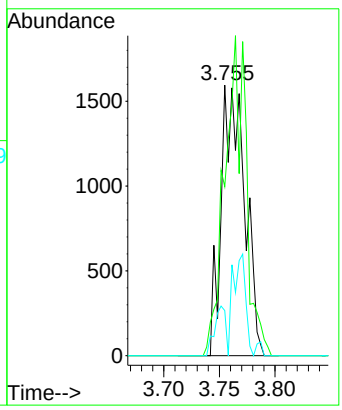
Tgt Ion:117 Resp: 235

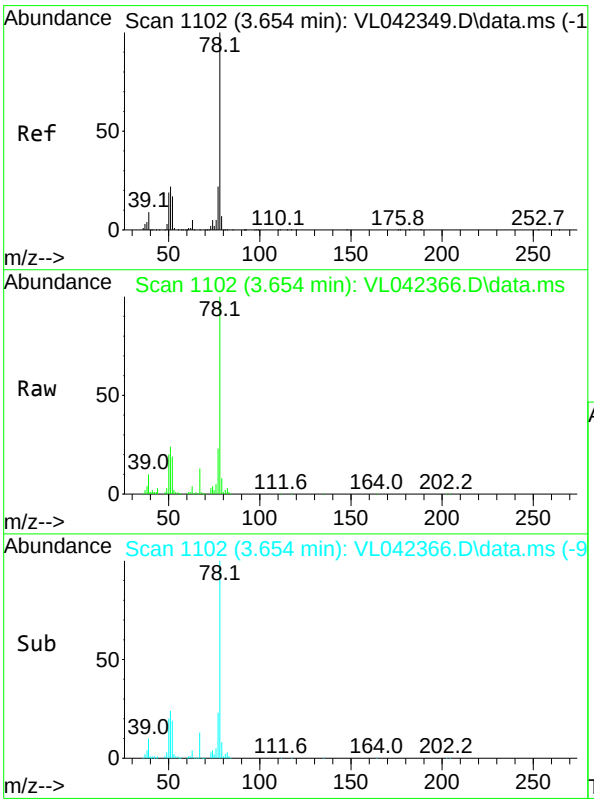
Ion	Ratio	Lower	Upper
117	100		
119	62.5	80.5	120.7#
121	16.7	24.2	36.2#

Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025

Manual Integrations
APPROVED

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

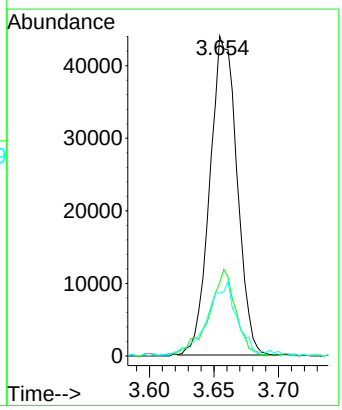


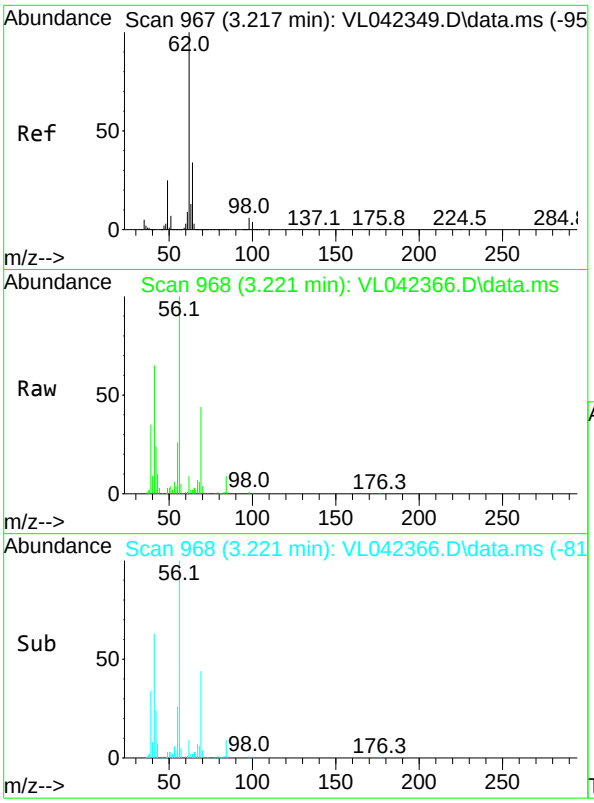


#36
Benzene
Concen: 1.727 ppbv
RT: 3.654 min Scan# 1102
Delta R.T. 0.000 min
Lab File: VL042366.D
Acq: 17 Apr 2025 20:05

Tgt Ion: 78 Resp: 64219

Ion	Ratio	Lower	Upper
78	100		
77	22.7	17.4	26.0
50	18.0	15.5	23.3

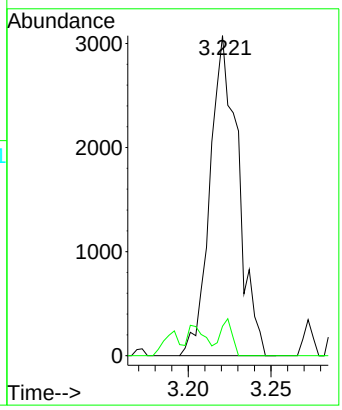




#37
1,2-Dichloroethane
Concen: 0.164 ppbv m
RT: 3.221 min Scan# 9
Delta R.T. 0.003 min
Lab File: VL042366.D
Acq: 17 Apr 2025 20:05

Tgt Ion: 62 Resp: 365

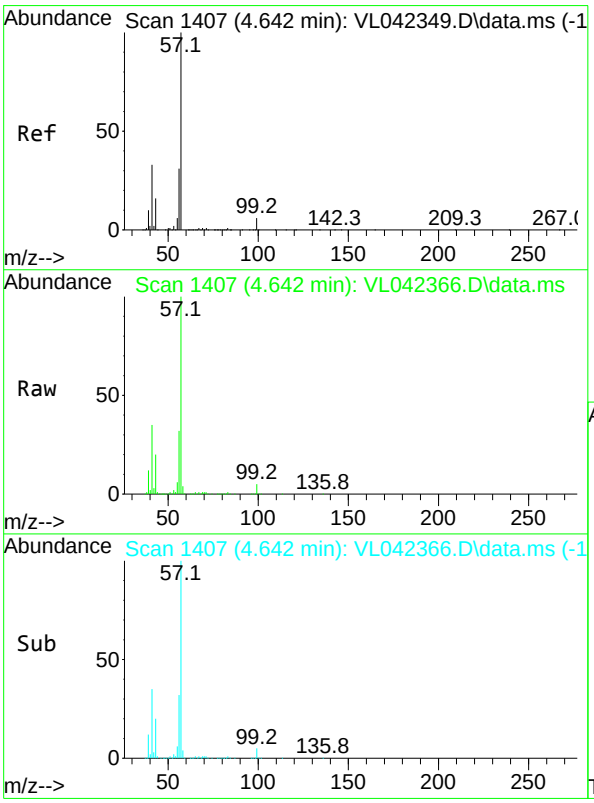
Ion	Ratio	Lower	Upper
62	100		
98	15.0	5.1	7.7



Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025

Manual Integrations
APPROVED

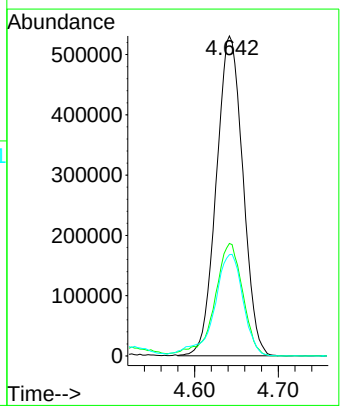
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

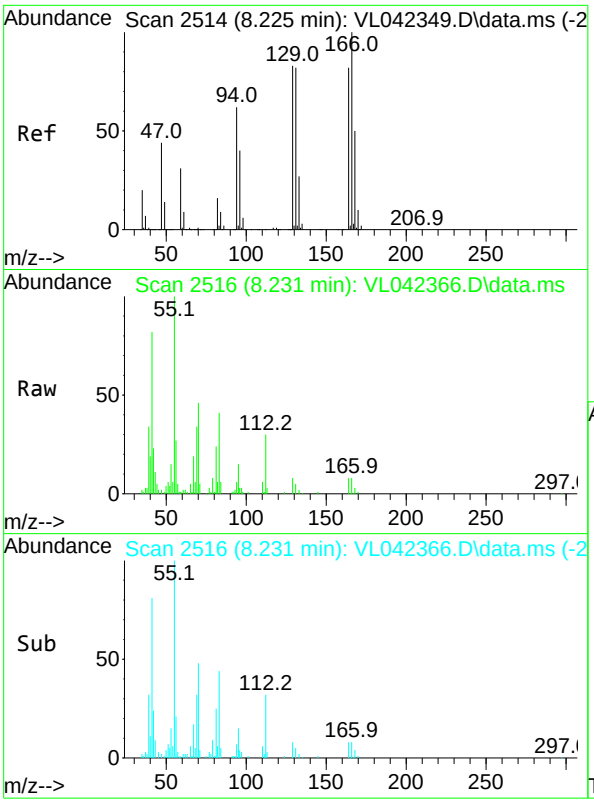


#44
2,2,4-Trimethylpentane
Concen: 18.168 ppbv
RT: 4.642 min Scan# 1407
Delta R.T. 0.000 min
Lab File: VL042366.D
Acq: 17 Apr 2025 20:05

Tgt Ion: 57 Resp: 1167050

Ion	Ratio	Lower	Upper
57	100		
41	37.2	27.2	40.8
56	34.9	25.7	38.5

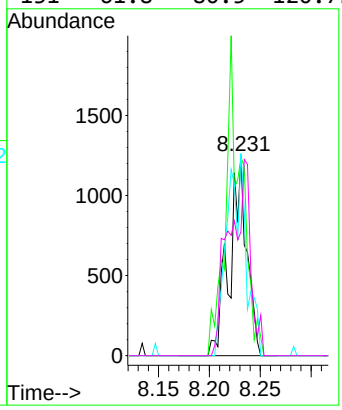




#52
Tetrachloroethene
Concen: 0.103 ppbv m
RT: 8.231 min Scan# 2
Delta R.T. 0.006 min
Lab File: VL042366.D
Acq: 17 Apr 2025 20:05

Tgt Ion:164 Resp: 147

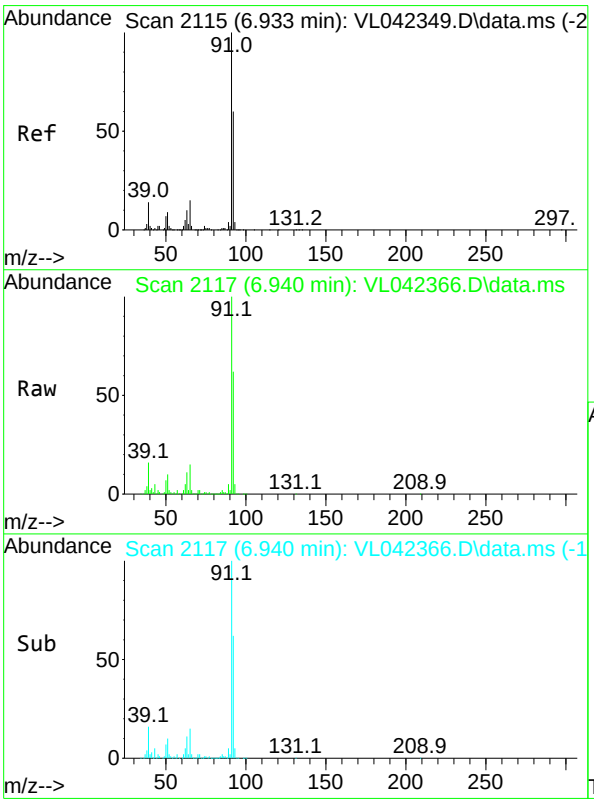
Ion	Ratio	Lower	Upper
164	100		
166	99.0	98.2	147.2
129	101.0	81.8	122.8
131	61.8	80.5	120.7#



Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025

Manual Integrations
APPROVED

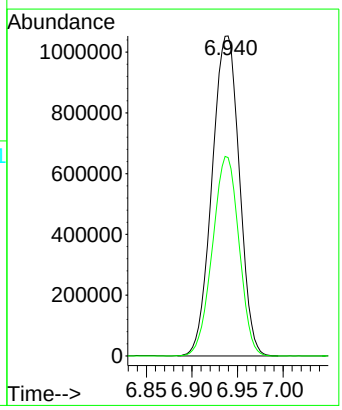
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

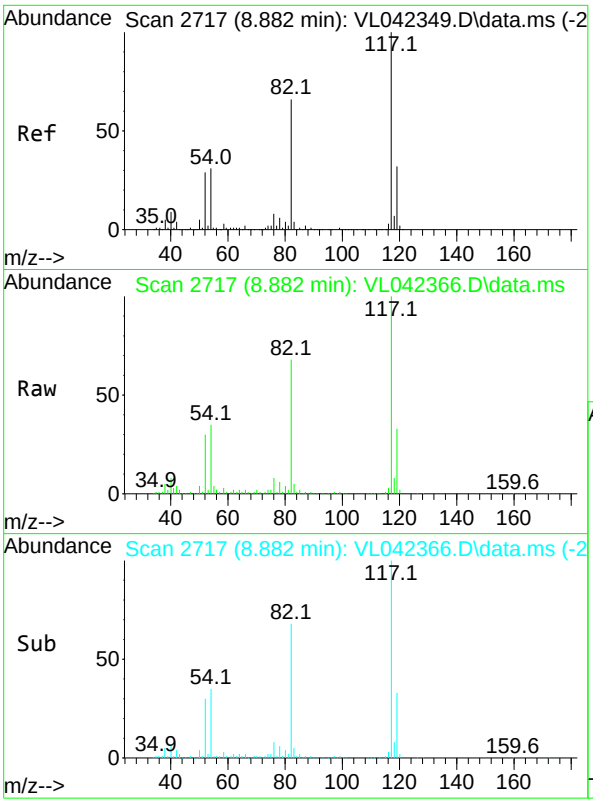


#53
Toluene
Concen: 49.165 ppbv
RT: 6.940 min Scan# 2117
Delta R.T. 0.006 min
Lab File: VL042366.D
Acq: 17 Apr 2025 20:05

Tgt Ion: 91 Resp: 2194341

Ion	Ratio	Lower	Upper
91	100		
92	60.7	48.2	72.4

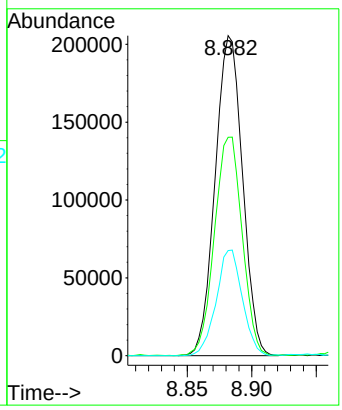




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.882 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042366.D
Acq: 17 Apr 2025 20:05

Tgt Ion:117 Resp: 30340

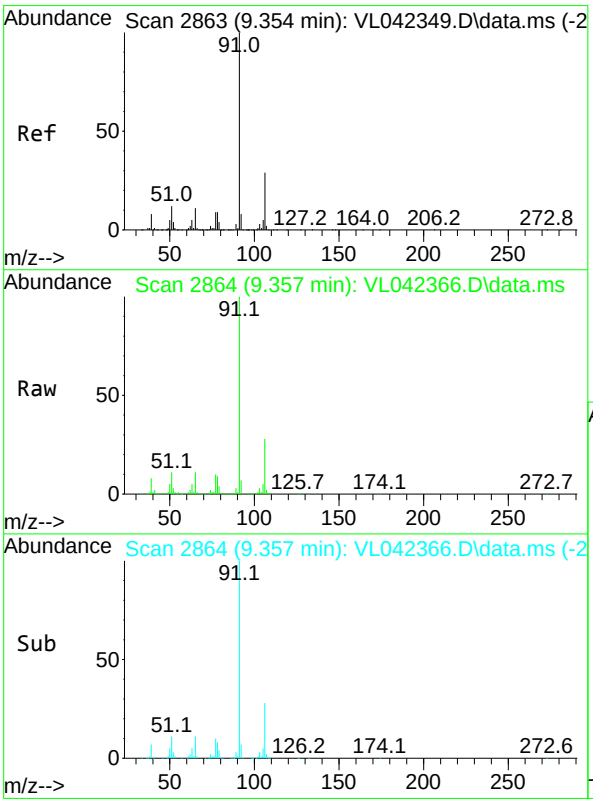
Ion	Ratio	Lower	Upper
117	100		
82	69.2	57.8	86.6
119	31.6	25.2	37.8



Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025

Manual Integrations
APPROVED

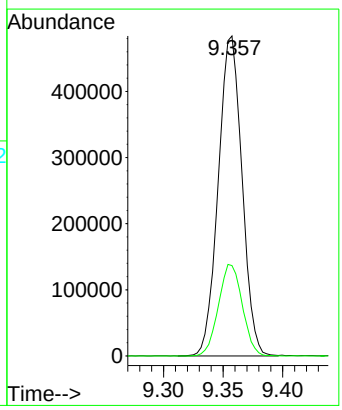
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

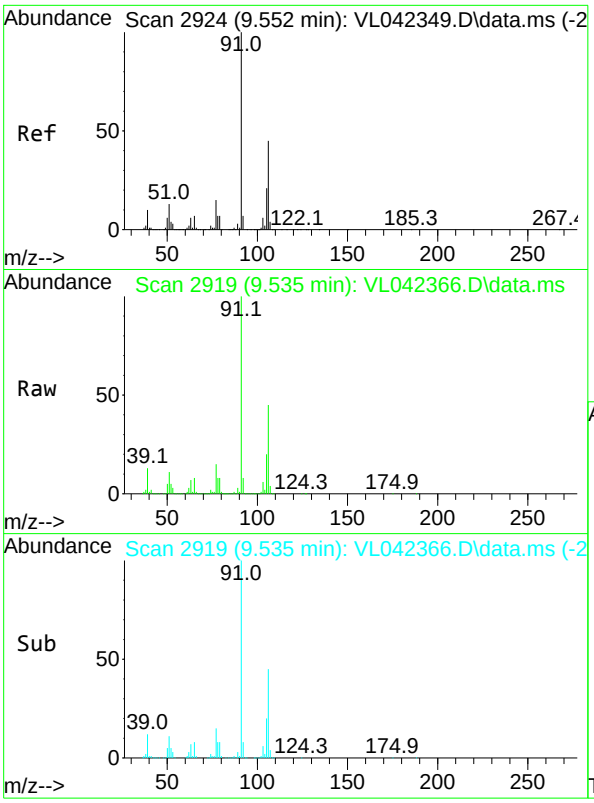


#58
Ethyl Benzene
Concen: 11.113 ppbv
RT: 9.357 min Scan# 2864
Delta R.T. 0.003 min
Lab File: VL042366.D
Acq: 17 Apr 2025 20:05

Tgt Ion: 91 Resp: 668072

Ion	Ratio	Lower	Upper
91	100		
106	28.3	23.0	34.4





#59
m/p-Xylene
Concen: 38.435 ppbv
RT: 9.535 min Scan# 2
Delta R.T. -0.016 min
Lab File: VL042366.D
Acq: 17 Apr 2025 20:05

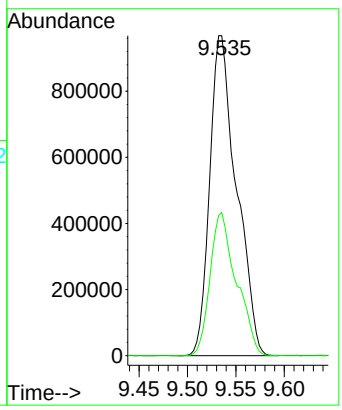
Tgt Ion: 91 Resp: 186124

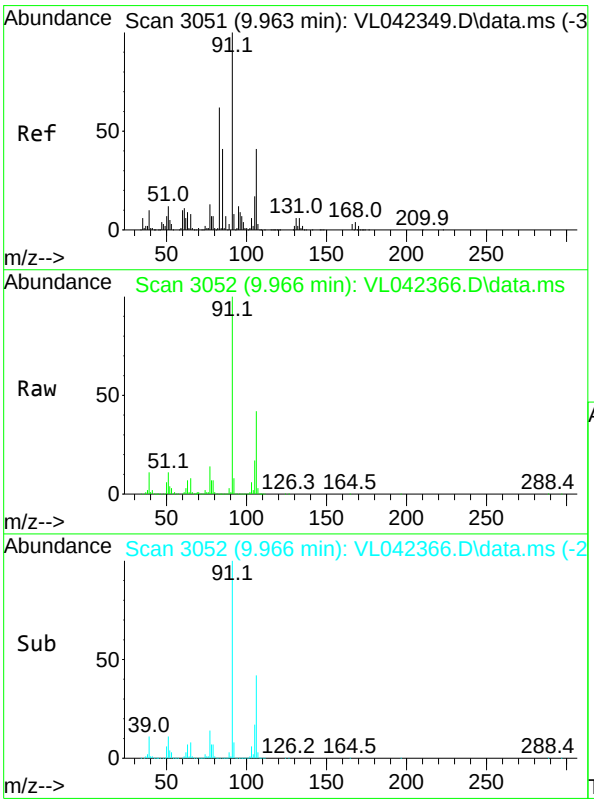
Ion	Ratio	Lower	Upper
91	100		
106	44.0	35.4	53.2

Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025

Manual Integrations
APPROVED

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

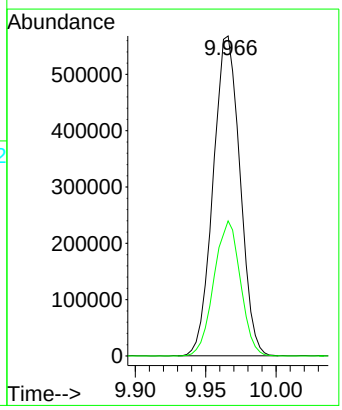


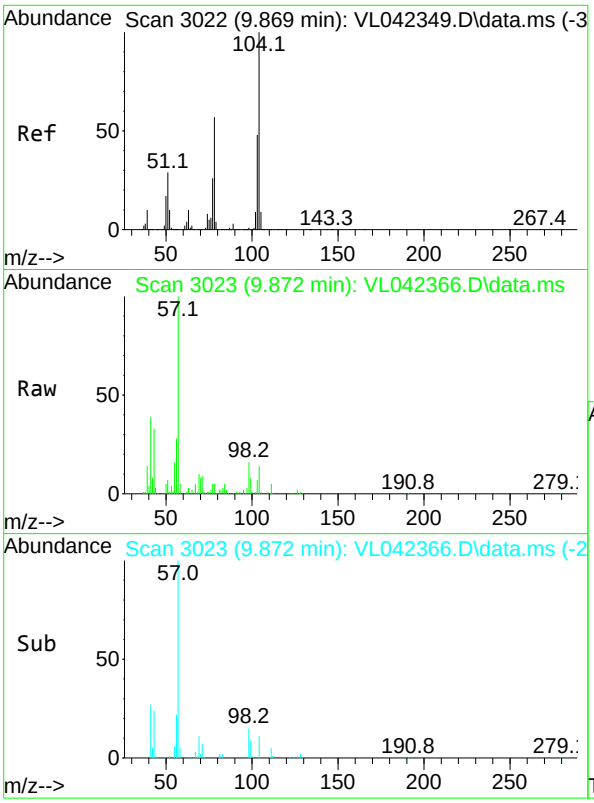


#60
o-Xylene
Concen: 15.456 ppbv
RT: 9.966 min Scan# 3052
Delta R.T. 0.003 min
Lab File: VL042366.D
Acq: 17 Apr 2025 20:05

Tgt Ion: 91 Resp: 753743

Ion	Ratio	Lower	Upper
91	100		
106	41.7	21.1	63.4

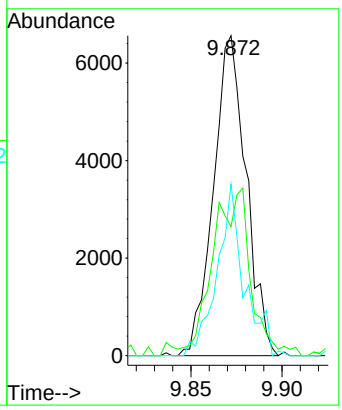




#61
Styrene
Concen: 0.351 ppbv
RT: 9.872 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042366.D
Acq: 17 Apr 2025 20:05

Tgt Ion:104 Resp: 817

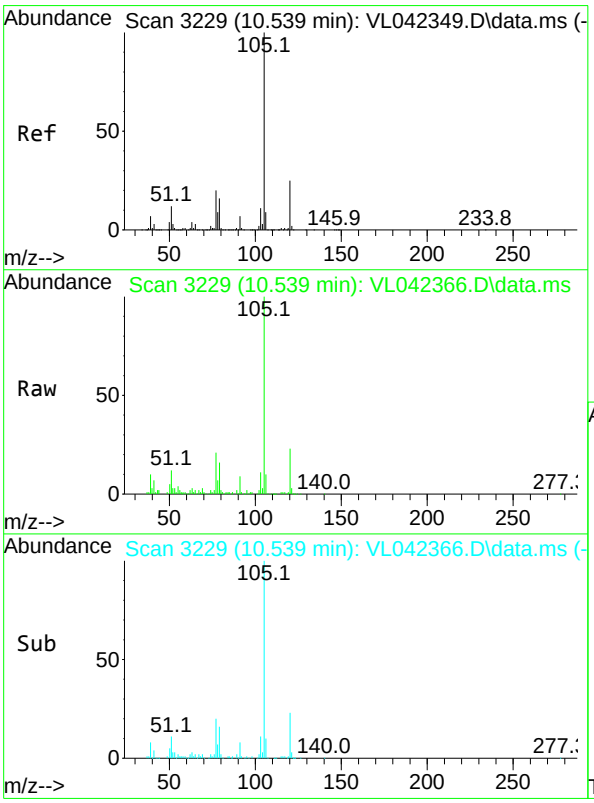
Ion	Ratio	Lower	Upper
104	100		
78	64.5	44.6	66.8
103	44.3	37.4	56.0



Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025

Manual Integrations
APPROVED

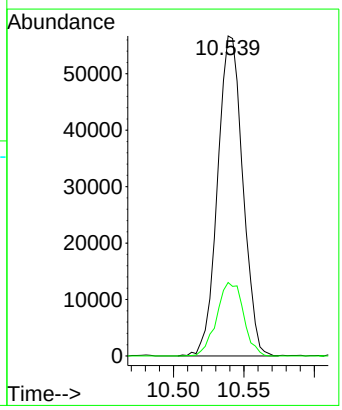
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

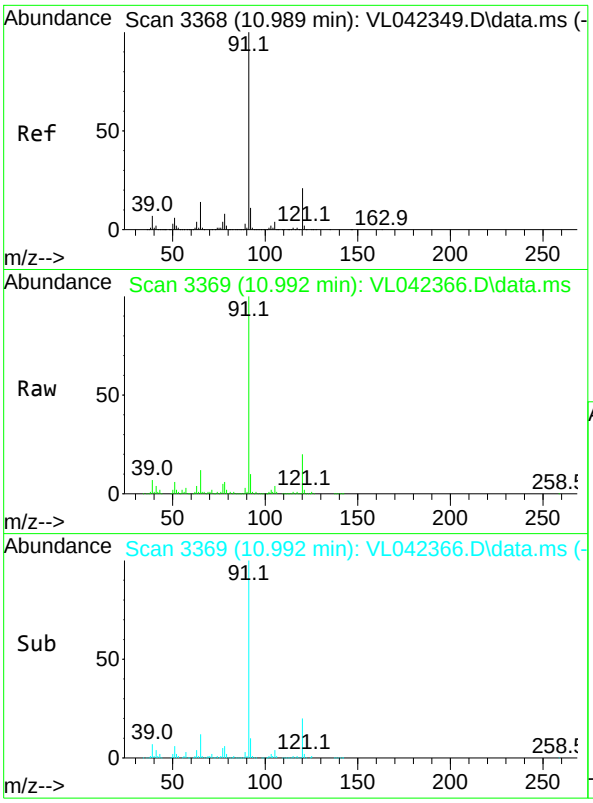


#62
Isopropylbenzene
Concen: 0.987 ppbv
RT: 10.539 min Scan# 3229
Delta R.T. 0.000 min
Lab File: VL042366.D
Acq: 17 Apr 2025 20:05

Tgt Ion:105 Resp: 70653

Ion	Ratio	Lower	Upper
105	100		
120	24.4	19.8	29.8





#64
n-propylbenzene
Concen: 3.324 ppbv
RT: 10.992 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042366.D
Acq: 17 Apr 2025 20:05

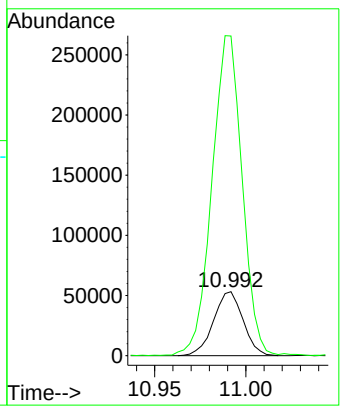
Tgt Ion:120 Resp: 5982

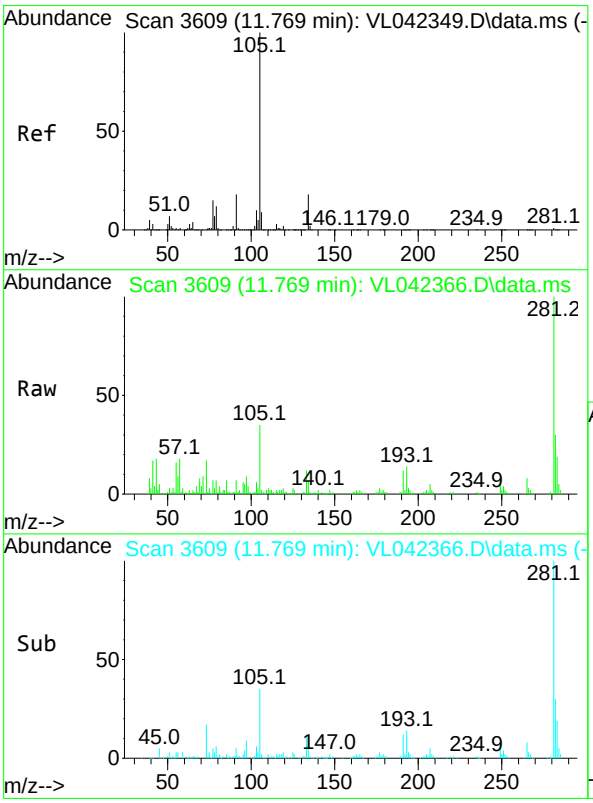
Ion	Ratio	Lower	Upper
120	100		
91	511.6	392.4	588.6

Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025

Manual Integrations
APPROVED

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

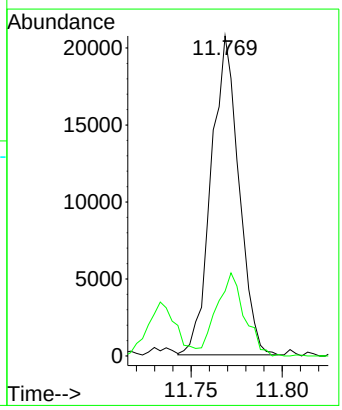


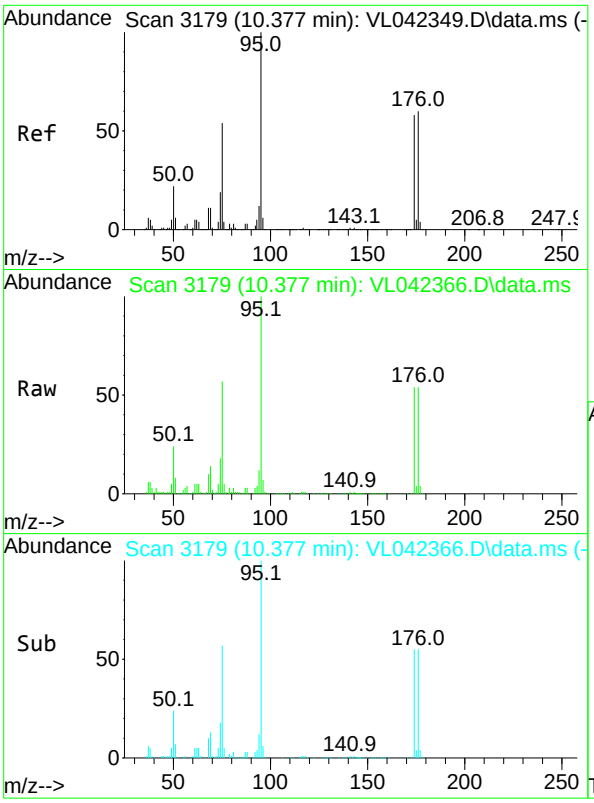


#67
sec-Butylbenzene
Concen: 0.239 ppbv
RT: 11.769 min Scan# 3609
Delta R.T. 0.000 min
Lab File: VL042366.D
Acq: 17 Apr 2025 20:05

Tgt Ion:105 Resp: 21870

Ion	Ratio	Lower	Upper
105	100		
134	26.0	14.6	21.8#





#68
1-Bromo-4-Fluorobenzene
Concen: 10.136 ppbv
RT: 10.377 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042366.D
Acq: 17 Apr 2025 20:05

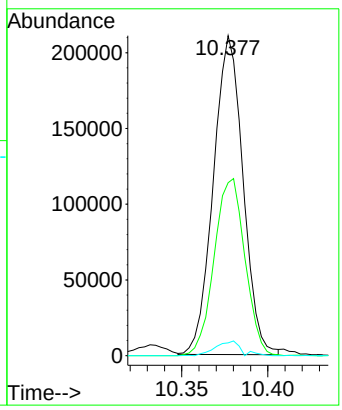
Tgt Ion: 95 Resp: 25270

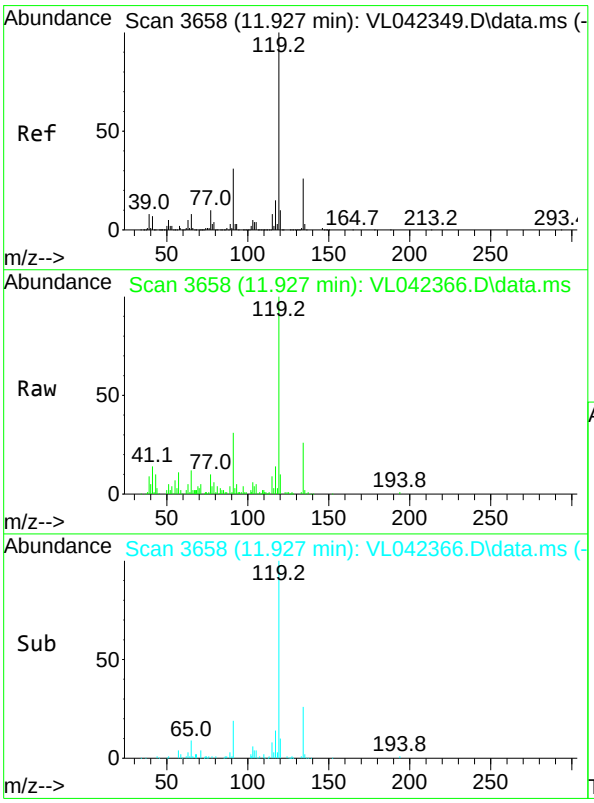
Ion	Ratio	Lower	Upper
95	100		
174	57.6	48.5	72.7
175	4.0	3.7	5.5

Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025

Manual Integrations
APPROVED

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

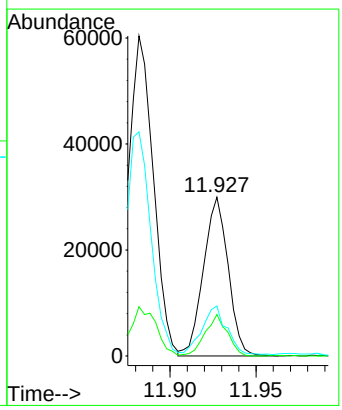


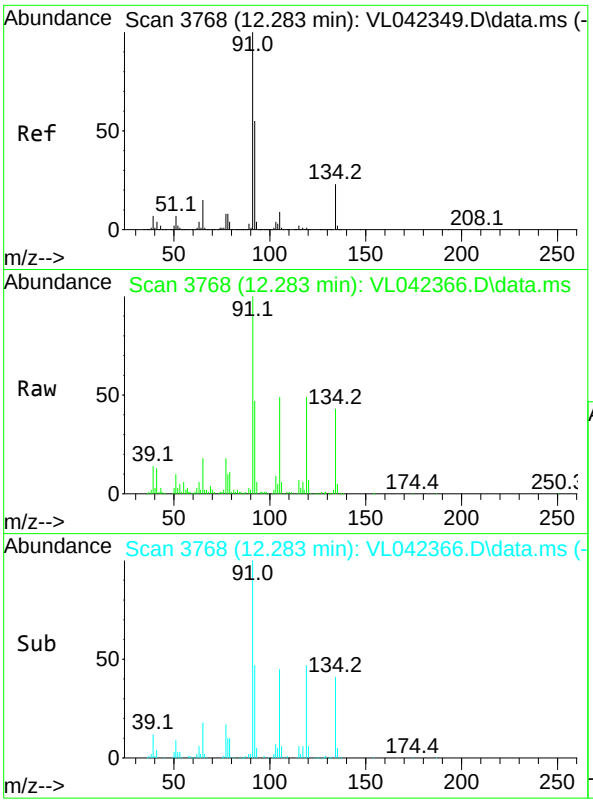


#69
p-Isopropyltoluene
Concen: 0.377 ppbv
RT: 11.927 min Scan# 3658
Delta R.T. 0.000 min
Lab File: VL042366.D
Acq: 17 Apr 2025 20:05

Tgt Ion:119 Resp: 29958

Ion	Ratio	Lower	Upper
119	100		
134	23.7	20.0	30.0
91	29.2	24.4	36.6

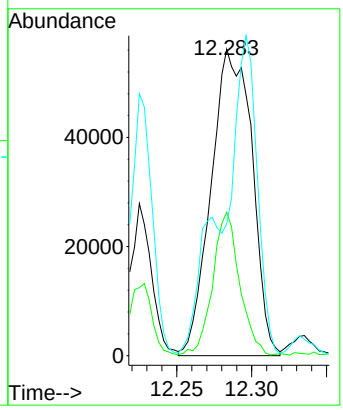




#70
n-Butylbenzene
Concen: 1.289 ppbv m
RT: 12.283 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042366.D
Acq: 17 Apr 2025 20:05

Tgt Ion: 91 Resp: 10674

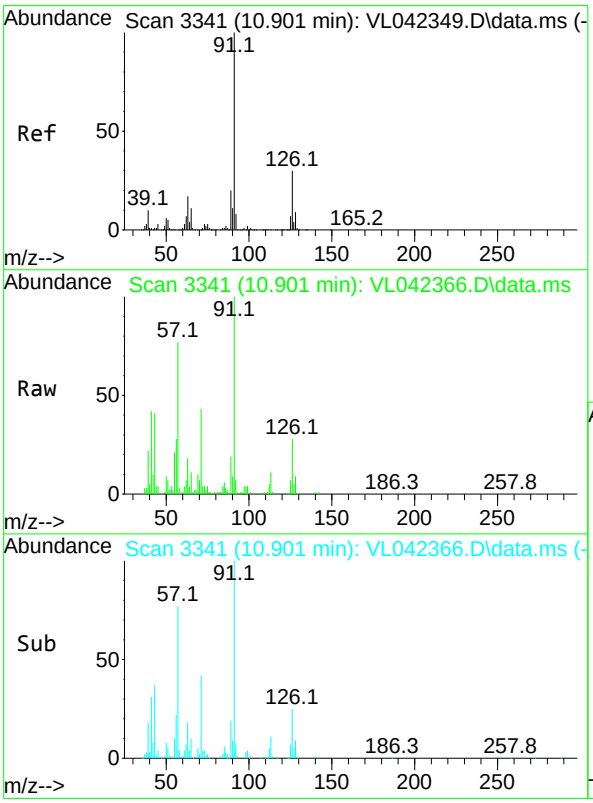
Ion	Ratio	Lower	Upper
91	100		
92	31.7	44.2	66.4#
134	0.0	18.2	27.4#



Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025

Manual Integrations
APPROVED

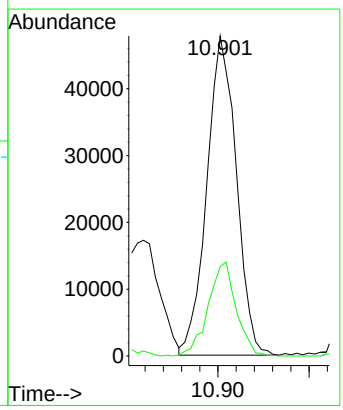
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

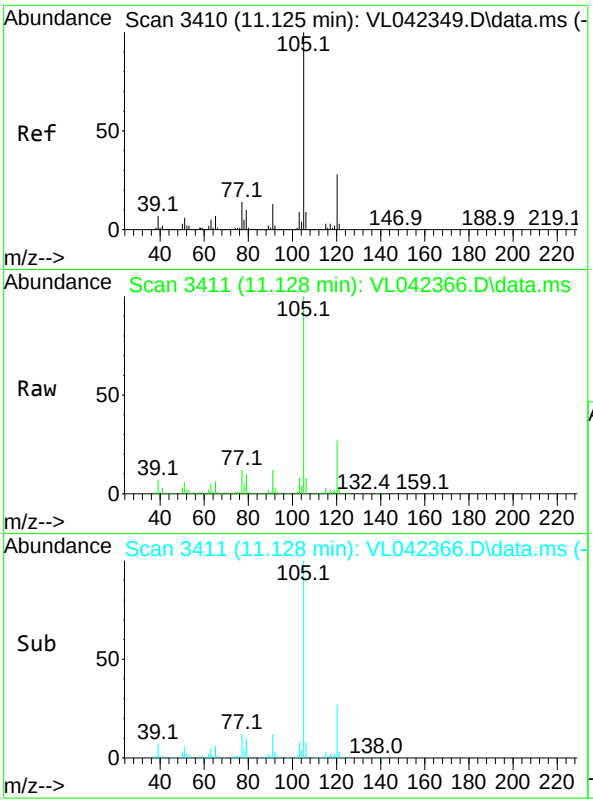


#71
2-Chlorotoluene
Concen: 0.958 ppbv
RT: 10.901 min Scan# 3341
Delta R.T. 0.000 min
Lab File: VL042366.D
Acq: 17 Apr 2025 20:05

Tgt Ion: 91 Resp: 53769

Ion	Ratio	Lower	Upper
91	100		
126	28.0	11.4	45.4

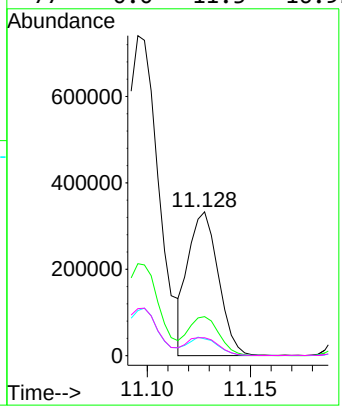




#72
4-Ethyltoluene
Concen: 5.685 ppbv
RT: 11.128 min Scan# 34
Delta R.T. 0.003 min
Lab File: VL042366.D
Acq: 17 Apr 2025 20:05

Tgt Ion:105 Resp: 33891

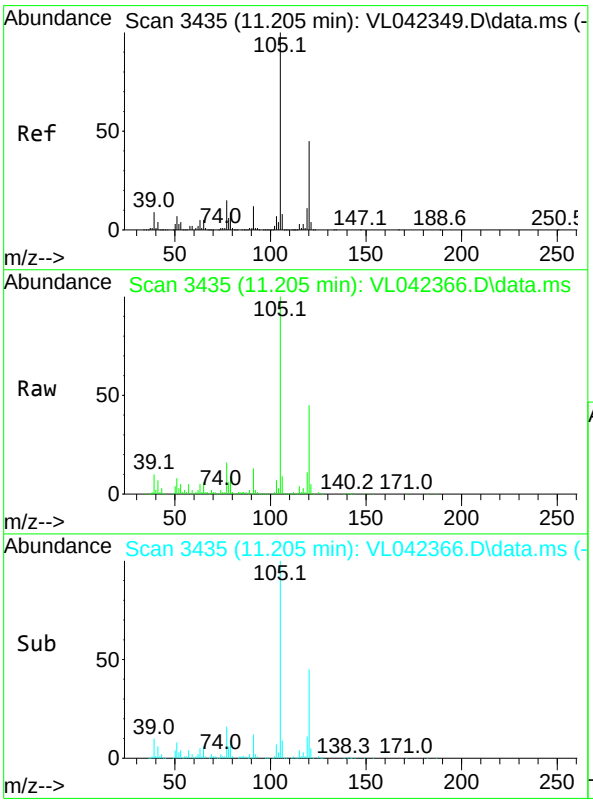
Ion	Ratio	Lower	Upper
105	100		
120	0.0	23.2	34.8#
91	0.0	10.4	15.6#
77	0.0	11.3	16.9#



Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025

Manual Integrations
APPROVED

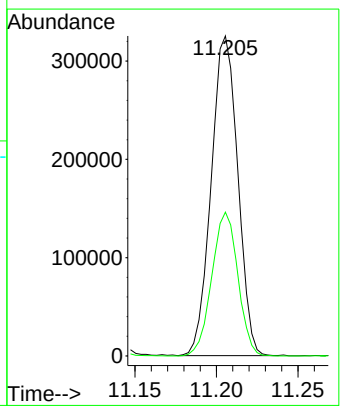
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

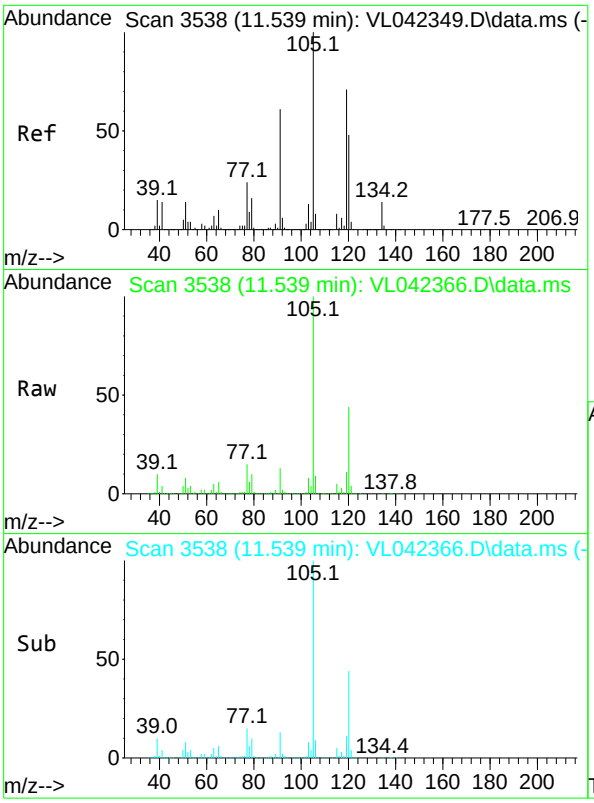


#73
1,3,5-Trimethylbenzene
Concen: 7.008 ppbv
RT: 11.205 min Scan# 3435
Delta R.T. 0.000 min
Lab File: VL042366.D
Acq: 17 Apr 2025 20:05

Tgt Ion:105 Resp: 368859

Ion	Ratio	Lower	Upper
105	100		
120	45.0	35.6	53.4

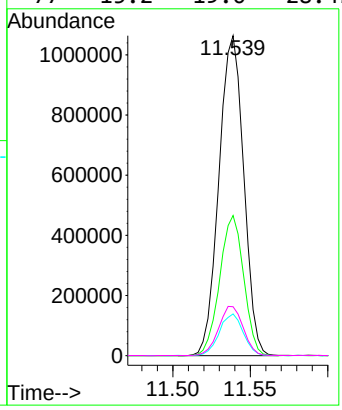




#74
1,2,4-Trimethylbenzene
Concen: 19.268 ppbv
RT: 11.539 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042366.D
Acq: 17 Apr 2025 20:05

Tgt Ion:105 Resp: 118451

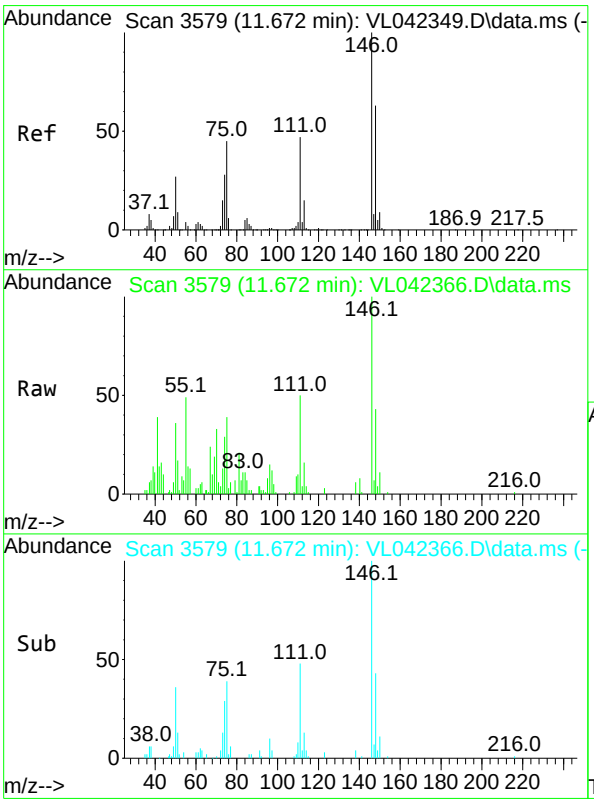
Ion	Ratio	Lower	Upper
105	100		
120	43.8	38.1	57.1
91	13.0	48.8	73.2#
77	15.2	19.0	28.4#



Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025

Manual Integrations
APPROVED

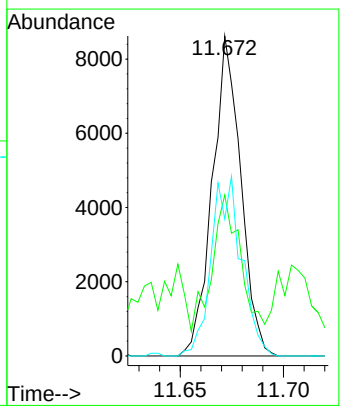
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

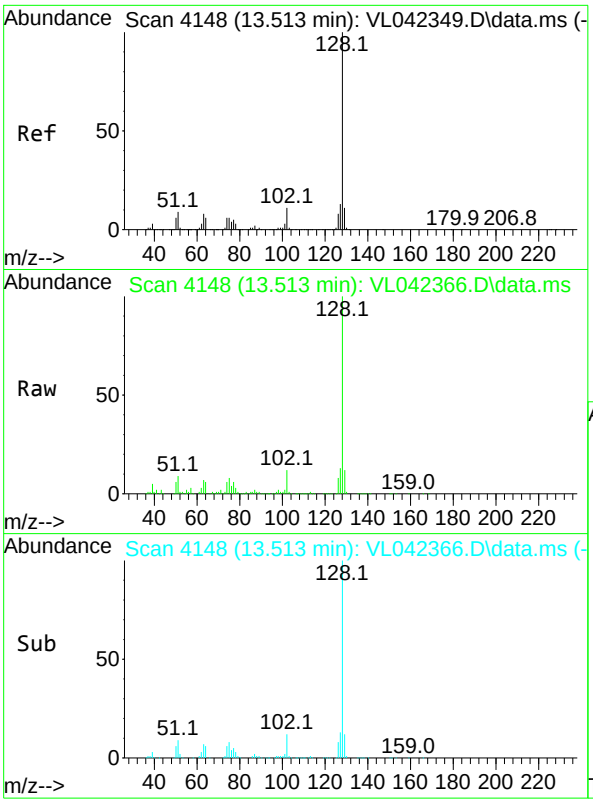


#76
1,4-Dichlorobenzene
Concen: 0.257 ppbv
RT: 11.672 min Scan# 3579
Delta R.T. 0.000 min
Lab File: VL042366.D
Acq: 17 Apr 2025 20:05

Tgt Ion:146 Resp: 8250

Ion	Ratio	Lower	Upper
146	100		
111	144.4	24.2	72.6#
148	59.7	32.1	96.5

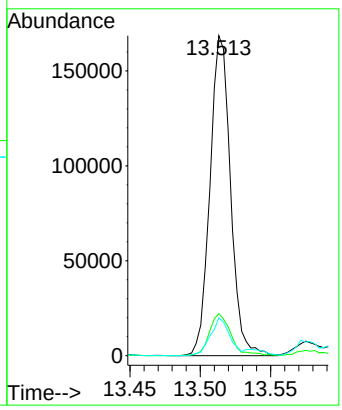




#79
Naphthalene
Concen: 2.334 ppbv
RT: 13.513 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042366.D
Acq: 17 Apr 2025 20:05

Tgt Ion:128 Resp: 17157

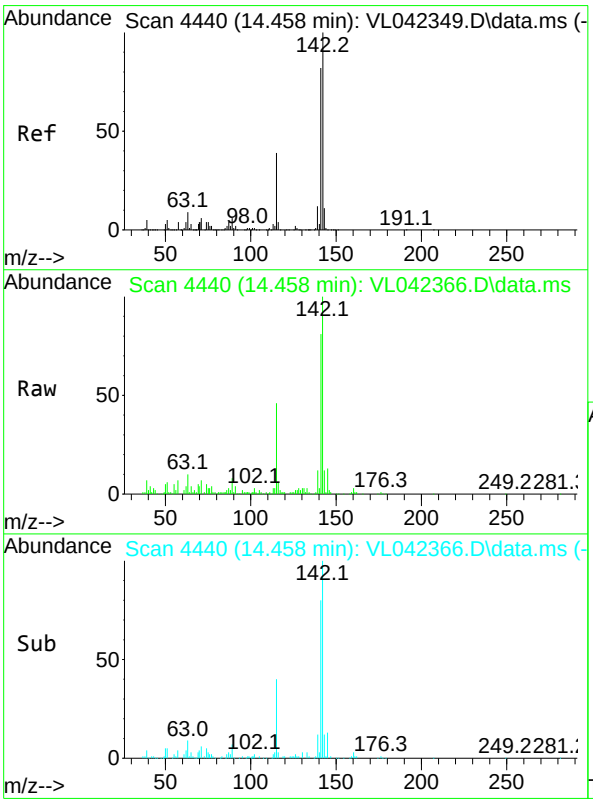
Ion	Ratio	Lower	Upper
128	100		
127	13.1	10.6	15.8
129	11.8	8.6	12.8



Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025

Manual Integrations
APPROVED

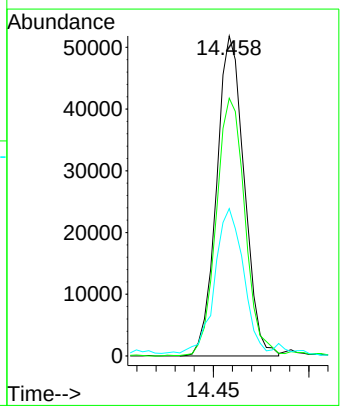
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#80
Naphthalene,2-methyl-
Concen: 1.241 ppbv m
RT: 14.458 min Scan# 4440
Delta R.T. 0.000 min
Lab File: VL042366.D
Acq: 17 Apr 2025 20:05

Tgt Ion:142 Resp: 52010

Ion	Ratio	Lower	Upper
142	100		
141	42.5	66.8	100.2#
115	21.7	33.4	50.2#



LSC Area Percent Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042366.D
Acq On : 17 Apr 2025 20:05
Operator : SY/MD
Sample : Q1726-01
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025

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: VL042366.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	4273917	4918873	70.69%	5.781%
2	1.466	423	426	429	rVV	225649	112624	1.62%	0.132%
3	1.489	429	433	439	rVV2	329795	179908	2.59%	0.211%
4	1.525	441	444	451	rVV	847087	458956	6.60%	0.539%
5	1.560	451	455	459	rVB	692832	366419	5.27%	0.431%
6	1.622	470	474	478	rVB	701078	361441	5.19%	0.425%
7	1.722	500	505	511	rVB	1080218	643731	9.25%	0.757%
8	1.835	535	540	549	rBV	7956048	6957981	100.00%	8.177%
9	1.887	549	556	561	rBV	773930	504418	7.25%	0.593%
10	2.059	599	609	614	rBV3	159224	160322	2.30%	0.188%
11	2.272	667	675	682	rBV	197217	166359	2.39%	0.196%
12	2.473	731	737	744	rVB	238810	246566	3.54%	0.290%
13	2.625	775	784	792	rVB	183735	198374	2.85%	0.233%
14	2.787	827	834	840	rBV	439717	459034	6.60%	0.539%
15	2.826	840	846	859	rVB	388089	461146	6.63%	0.542%
16	3.230	963	971	979	rVV	228174	294817	4.24%	0.346%
17	3.282	979	987	999	rVB4	161985	237242	3.41%	0.279%
18	3.658	1086	1103	1108	rBV4	113213	263045	3.78%	0.309%
19	3.690	1108	1113	1125	rVV2	103238	157277	2.26%	0.185%
20	3.768	1125	1137	1151	rVB6	44339	95272	1.37%	0.112%
21	3.858	1151	1165	1179	rBV2	115375	212676	3.06%	0.250%
22	3.959	1184	1196	1208	rBV	573371	939304	13.50%	1.104%
23	4.053	1208	1225	1233	rVV2	510697	974029	14.00%	1.145%
24	4.098	1233	1239	1252	rVB2	223523	380894	5.47%	0.448%
25	4.269	1281	1292	1309	rVB	551741	1051997	15.12%	1.236%
26	4.441	1332	1345	1357	rBV2	111404	217711	3.13%	0.256%
27	4.525	1357	1371	1384	rVV6	106590	322288	4.63%	0.379%
28	4.642	1384	1407	1426	rVB	1233969	2926568	42.06%	3.439%
29	4.926	1478	1495	1500	rBV6	67017	158443	2.28%	0.186%
30	4.981	1500	1512	1524	rVV2	490875	1085234	15.60%	1.275%
31	5.046	1524	1532	1552	rVB3	64365	197243	2.83%	0.232%
32	5.302	1594	1611	1632	rBV6	81708	217553	3.13%	0.256%
33	5.668	1701	1724	1743	rVB5	306469	873147	12.55%	1.026%
34	5.791	1743	1762	1780	rBV7	47859	150570	2.16%	0.177%
35	6.134	1851	1868	1876	rBV7	75382	192651	2.77%	0.226%
36	6.205	1876	1890	1901	rVV4	197507	611758	8.79%	0.719%

LSC Area Percent Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042366.D
Acq On : 17 Apr 2025 20:05
Operator : SY/MD
Sample : Q1726-01
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025

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	6.270	1901	1910	1928	rVB3	217072	564202	8.11%	0.663%
38	6.470	1956	1972	1983	rBV	66330	160944	2.31%	0.189%
39	6.732	2035	2053	2067	rBV10	47942	149933	2.15%	0.176%
40	6.830	2067	2083	2098	rVV4	639322	1573919	22.62%	1.850%
41	6.940	2098	2117	2137	rVB2	2998118	6943440	99.79%	8.160%
42	7.186	2176	2193	2209	rBV3	249292	569765	8.19%	0.670%
43	7.276	2213	2221	2235	rVB5	60019	124694	1.79%	0.147%
44	7.380	2238	2253	2261	rBV2	379940	752084	10.81%	0.884%
45	7.422	2261	2266	2288	rVV6	147628	354711	5.10%	0.417%
46	7.529	2288	2299	2309	rVV5	40621	93555	1.34%	0.110%
47	7.600	2309	2321	2340	rVV5	390713	1189694	17.10%	1.398%
48	7.684	2340	2347	2359	rVB10	114714	236925	3.41%	0.278%
49	7.898	2400	2413	2430	rBV2	349493	811231	11.66%	0.953%
50	7.982	2430	2439	2444	rBV5	55874	85919	1.23%	0.101%
51	8.131	2475	2485	2504	rVB6	152710	330920	4.76%	0.389%
52	8.228	2504	2515	2525	rVV4	103673	218981	3.15%	0.257%
53	8.302	2525	2538	2555	rVB4	619087	1215089	17.46%	1.428%
54	8.438	2571	2580	2586	rBV3	82079	118147	1.70%	0.139%
55	8.691	2649	2658	2665	rBV4	68364	99975	1.44%	0.117%
56	8.882	2704	2717	2727	rBV	769268	1256707	18.06%	1.477%
57	8.943	2727	2736	2739	rBV2	62326	89143	1.28%	0.105%
58	8.982	2739	2748	2763	rVB6	221555	534435	7.68%	0.628%
59	9.063	2763	2773	2779	rBV8	53569	104912	1.51%	0.123%
60	9.098	2779	2784	2791	rVV3	83011	114638	1.65%	0.135%
61	9.147	2791	2799	2812	rVV2	178994	281034	4.04%	0.330%
62	9.357	2853	2864	2878	rBV	1149564	1727489	24.83%	2.030%
63	9.419	2878	2883	2891	rVB4	88738	126296	1.82%	0.148%
64	9.532	2908	2918	2937	rVB	2845585	5528502	79.46%	6.497%
65	9.658	2949	2957	2966	rBV7	57076	101214	1.45%	0.119%
66	9.733	2966	2980	2996	rVB4	324338	727659	10.46%	0.855%
67	9.859	3004	3019	3028	rBV2	334657	543602	7.81%	0.639%
68	9.966	3037	3052	3061	rBV	1615901	2257436	32.44%	2.653%
69	10.011	3061	3066	3074	rVB3	77849	110416	1.59%	0.130%
70	10.102	3074	3094	3100	rBV6	174090	386032	5.55%	0.454%
71	10.141	3100	3106	3115	rVB9	81857	140312	2.02%	0.165%
72	10.354	3161	3172	3175	rBV	543891	721930	10.38%	0.848%
73	10.377	3175	3179	3190	rVV2	959098	1136272	16.33%	1.335%
74	10.432	3190	3196	3202	rVB5	88616	113443	1.63%	0.133%
75	10.539	3222	3229	3237	rBV2	160247	217057	3.12%	0.255%
76	10.772	3290	3301	3305	rBV4	102483	163943	2.36%	0.193%

LSC Area Percent Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042366.D
Acq On : 17 Apr 2025 20:05
Operator : SY/MD
Sample : Q1726-01
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025

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	10.856	3321	3327	3334	rVB2	225727	274144	3.94%	0.322%
78	10.901	3334	3341	3352	rVB2	280492	340118	4.89%	0.400%
79	10.989	3352	3368	3383	rVB	584940	825724	11.87%	0.970%
80	11.095	3389	3401	3407	rBV	2007504	2351995	33.80%	2.764%
81	11.128	3407	3411	3420	rVB	833816	865335	12.44%	1.017%
82	11.205	3420	3435	3443	rBV	1040683	1235929	17.76%	1.452%
83	11.257	3443	3451	3454	rBV	90982	99071	1.42%	0.116%
84	11.283	3454	3459	3463	rVV	175614	202325	2.91%	0.238%
85	11.316	3463	3469	3471	rVV2	319503	359765	5.17%	0.423%
86	11.341	3471	3477	3490	rVB	716981	874640	12.57%	1.028%
87	11.403	3490	3496	3501	rBV	199817	237144	3.41%	0.279%
88	11.426	3501	3503	3512	rVB6	85530	88868	1.28%	0.104%
89	11.539	3529	3538	3547	rBV	3188160	3594855	51.67%	4.225%
90	11.591	3550	3554	3565	rVB7	61654	97662	1.40%	0.115%
91	11.752	3591	3604	3608	rBV3	410237	558450	8.03%	0.656%
92	11.775	3608	3611	3625	rVB2	376577	416771	5.99%	0.490%
93	11.882	3636	3644	3652	rVB2	903128	971363	13.96%	1.142%
94	11.927	3652	3658	3661	rBV	85095	86558	1.24%	0.102%
95	12.021	3678	3687	3691	rBV	517725	614925	8.84%	0.723%
96	12.044	3691	3694	3701	rVV3	292833	277724	3.99%	0.326%
97	12.086	3701	3707	3717	rVB4	147244	213451	3.07%	0.251%
98	12.170	3727	3733	3737	rBV2	124619	137282	1.97%	0.161%
99	12.196	3737	3741	3745	rVV2	223721	223286	3.21%	0.262%
100	12.225	3745	3750	3757	rVV2	660717	680773	9.78%	0.800%
101	12.270	3757	3764	3767	rVV2	302735	329270	4.73%	0.387%
102	12.296	3767	3772	3778	rVB2	548218	588368	8.46%	0.691%
103	12.406	3799	3806	3811	rBV2	207202	231339	3.32%	0.272%
104	12.442	3811	3817	3823	rVV	189981	172467	2.48%	0.203%
105	12.507	3831	3837	3840	rBV2	423580	459637	6.61%	0.540%
106	12.526	3840	3843	3846	rVV	330607	308234	4.43%	0.362%
107	12.545	3846	3849	3856	rVB3	260269	243481	3.50%	0.286%
108	12.591	3856	3863	3876	rVB2	696154	953656	13.71%	1.121%
109	12.655	3876	3883	3894	rVB6	138890	230284	3.31%	0.271%
110	12.798	3922	3927	3932	rVV	227272	216628	3.11%	0.255%
111	12.827	3932	3936	3942	rVB	300074	269521	3.87%	0.317%
112	12.918	3958	3964	3969	rBV	358184	370467	5.32%	0.435%
113	12.953	3969	3975	3984	rVV	501034	516611	7.42%	0.607%
114	13.008	3984	3992	4002	rVB7	69035	139260	2.00%	0.164%
115	13.102	4015	4021	4024	rBV3	123724	130173	1.87%	0.153%
116	13.128	4024	4029	4037	rVB2	365977	400056	5.75%	0.470%

LSC Area Percent Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042366.D
Acq On : 17 Apr 2025 20:05
Operator : SY/MD
Sample : Q1726-01
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025

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	13.170	4037	4042	4046	rBV4	113041	113607	1.63%	0.134%
118	13.228	4053	4060	4064	rBV	427942	456988	6.57%	0.537%
119	13.258	4064	4069	4075	rVV2	185664	238114	3.42%	0.280%
120	13.296	4075	4081	4086	rVB6	67360	78043	1.12%	0.092%
121	13.332	4086	4092	4101	rBV5	185144	263105	3.78%	0.309%
122	13.387	4101	4109	4116	rVB2	647632	741381	10.66%	0.871%
123	13.426	4116	4121	4124	rBV2	87292	84632	1.22%	0.099%
124	13.448	4124	4128	4135	rVB	104446	102780	1.48%	0.121%
125	13.513	4143	4148	4153	rBV	349060	316927	4.55%	0.372%
126	13.575	4161	4167	4170	rBV3	188520	191542	2.75%	0.225%
127	13.594	4170	4173	4178	rVB2	118865	104945	1.51%	0.123%
128	13.636	4178	4186	4189	rBV4	69828	97719	1.40%	0.115%
129	13.665	4189	4195	4206	rVB4	241611	349290	5.02%	0.410%
130	13.727	4206	4214	4219	rBV	198554	196347	2.82%	0.231%
131	13.753	4219	4222	4234	rVB3	74774	77841	1.12%	0.091%
132	13.979	4287	4292	4299	rVB5	80337	87459	1.26%	0.103%
133	14.112	4324	4333	4343	rVB	107251	156384	2.25%	0.184%
134	14.228	4361	4369	4373	rBV5	68875	89279	1.28%	0.105%
135	14.458	4432	4440	4446	rBV	212763	220684	3.17%	0.259%
136	14.523	4454	4460	4465	rBV2	107769	106298	1.53%	0.125%
137	14.588	4472	4480	4485	rBV	89551	97233	1.40%	0.114%

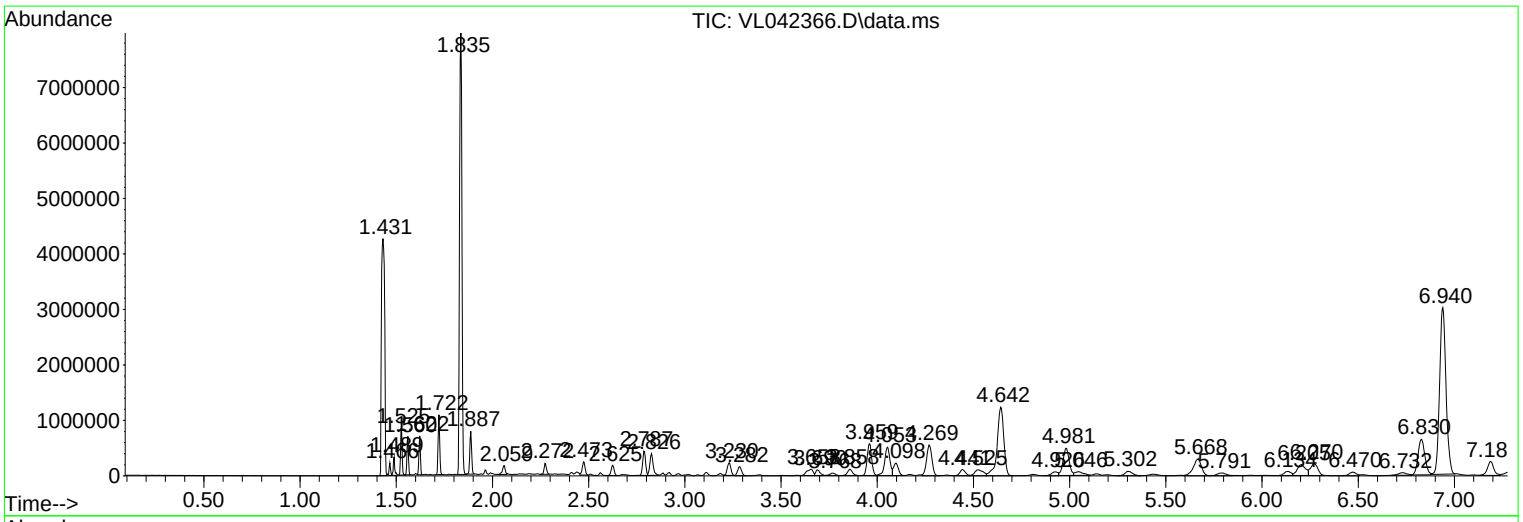
Sum of corrected areas: 85090679

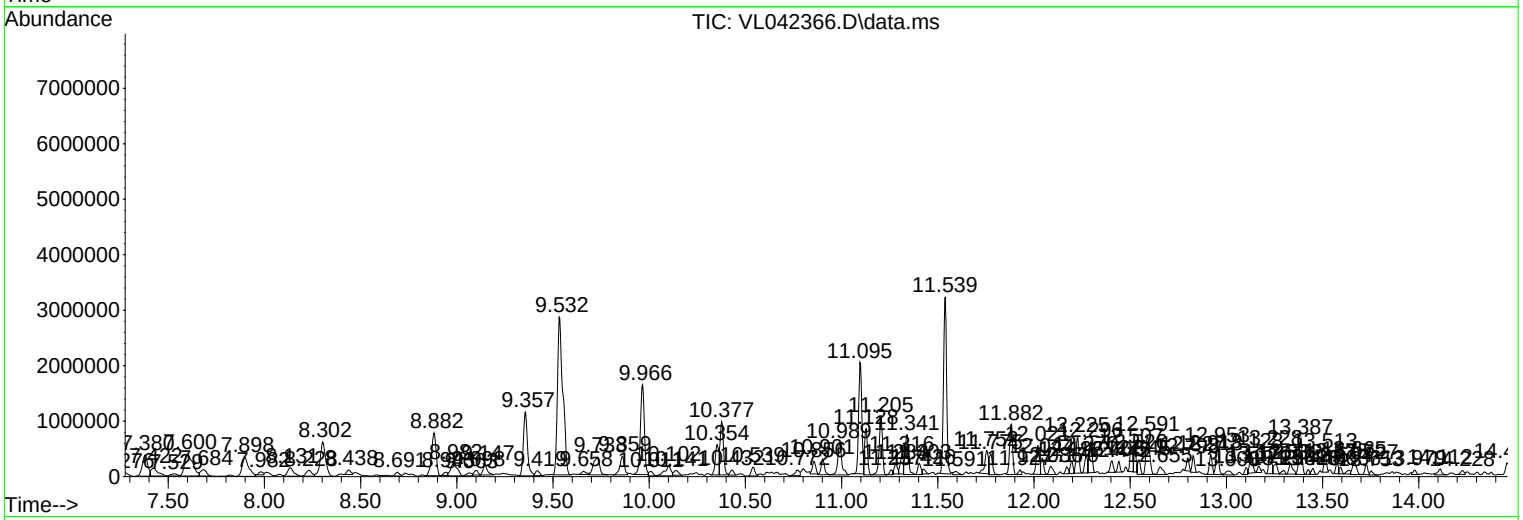
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042366.D
Acq On : 17 Apr 2025 20:05
Operator : SY/MD
Sample : Q1726-01
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

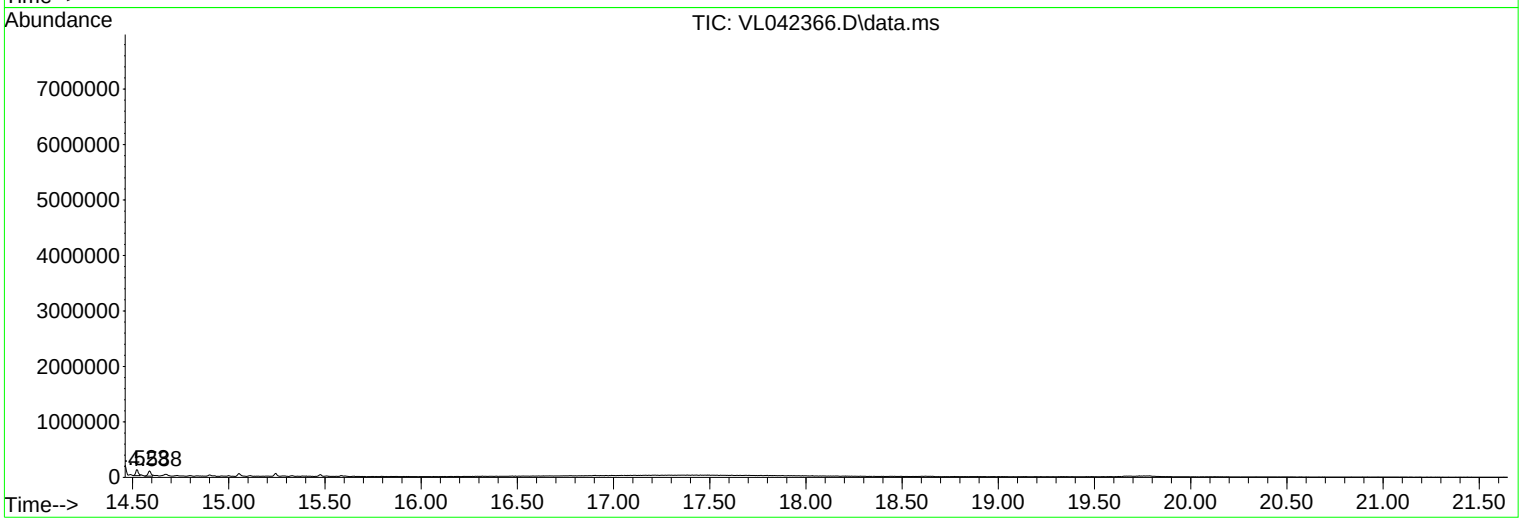
Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025

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 : VL042366.D
Acq On : 17 Apr 2025 20:05
Operator : SY/MD
Sample : Q1726-01
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025

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

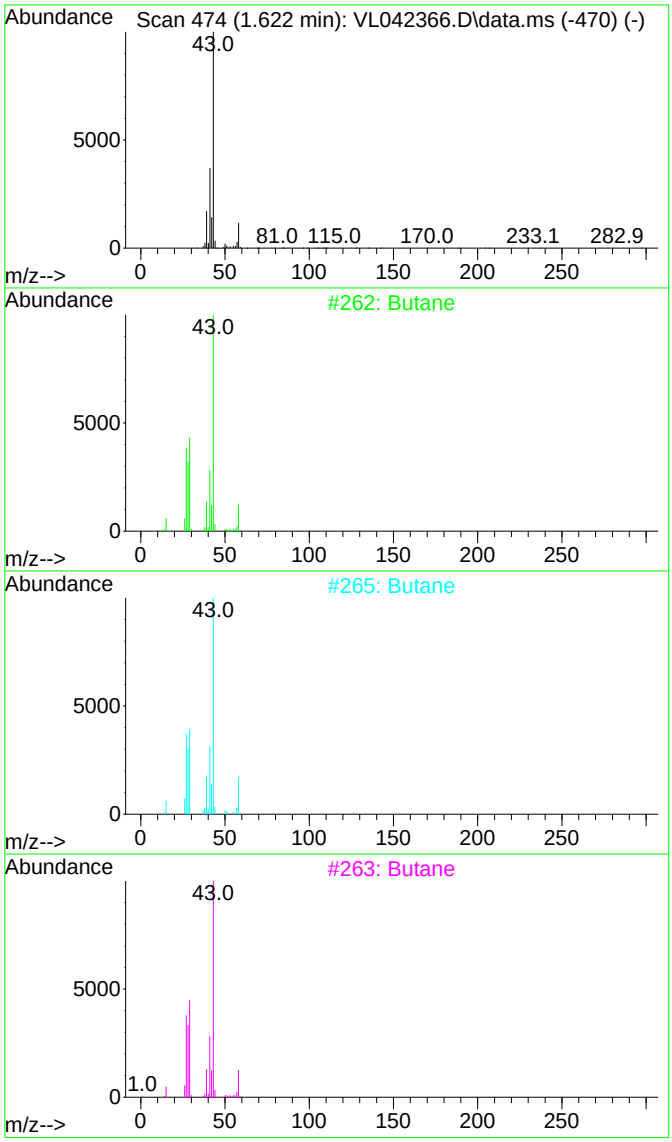
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

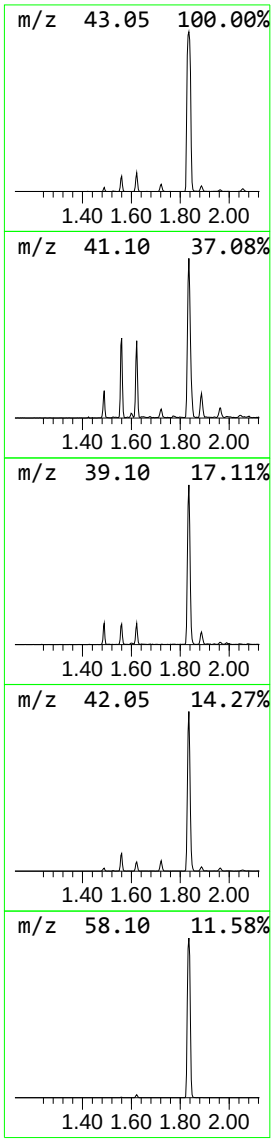
****

Peak Number 1 Butane Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.622	7.87 ppbv	361441	Bromochloromethane	2.787

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane	58	C4H10	000106-97-8	72
2	Butane	58	C4H10	000106-97-8	72
3	Butane	58	C4H10	000106-97-8	72
4	Butane	58	C4H10	000106-97-8	72
5	Isobutane	58	C4H10	000075-28-5	9





Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042366.D
Acq On : 17 Apr 2025 20:05
Operator : SY/MD
Sample : Q1726-01
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025

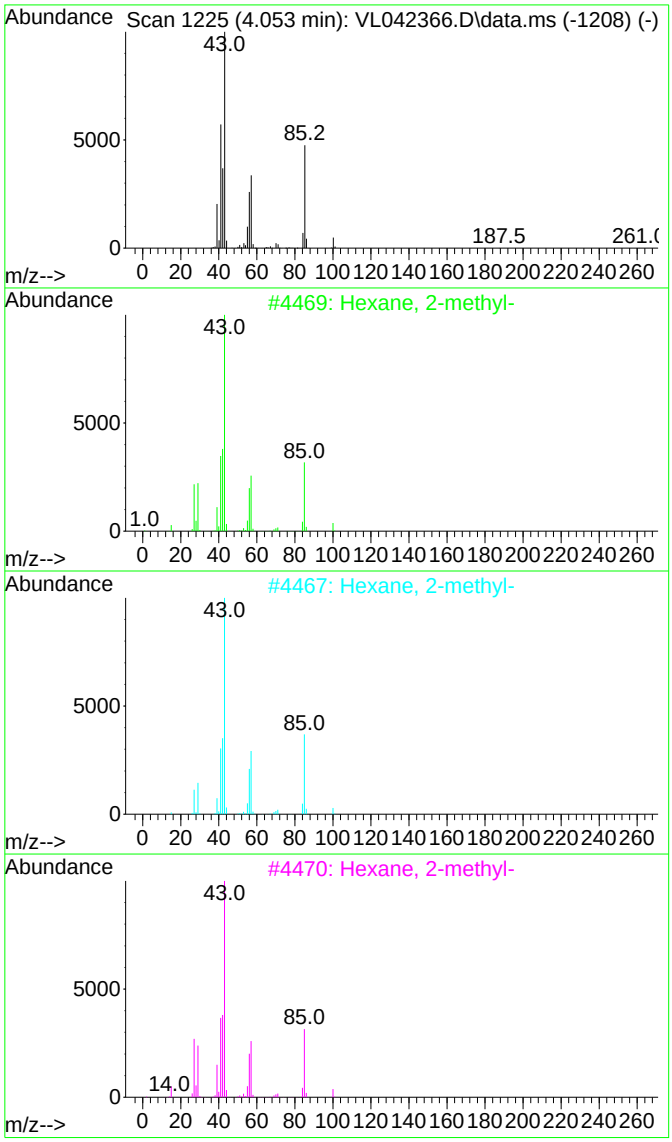
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

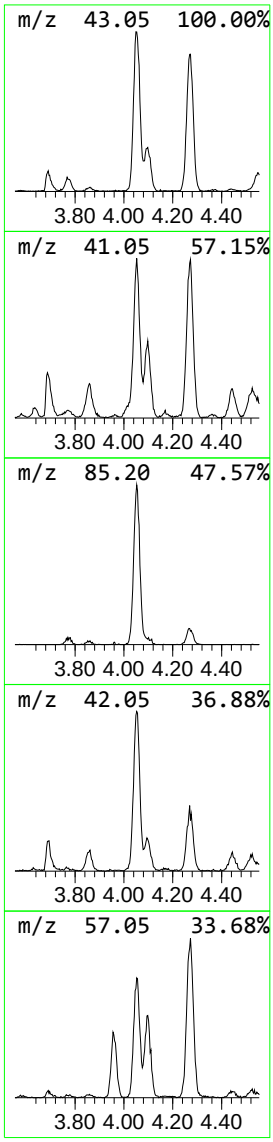
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.053	10.37 ppbv	974029	1,4-Difluorobenzene	3.959

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2-methyl-	100	C7H16	000591-76-4	90
2	Hexane, 2-methyl-	100	C7H16	000591-76-4	90
3	Hexane, 2-methyl-	100	C7H16	000591-76-4	83
4	Octane	114	C8H18	000111-65-9	59
5	Hexane, 1,1'-oxybis-	186	C12H26O	000112-58-3	50





Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042366.D
Acq On : 17 Apr 2025 20:05
Operator : SY/MD
Sample : Q1726-01
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025

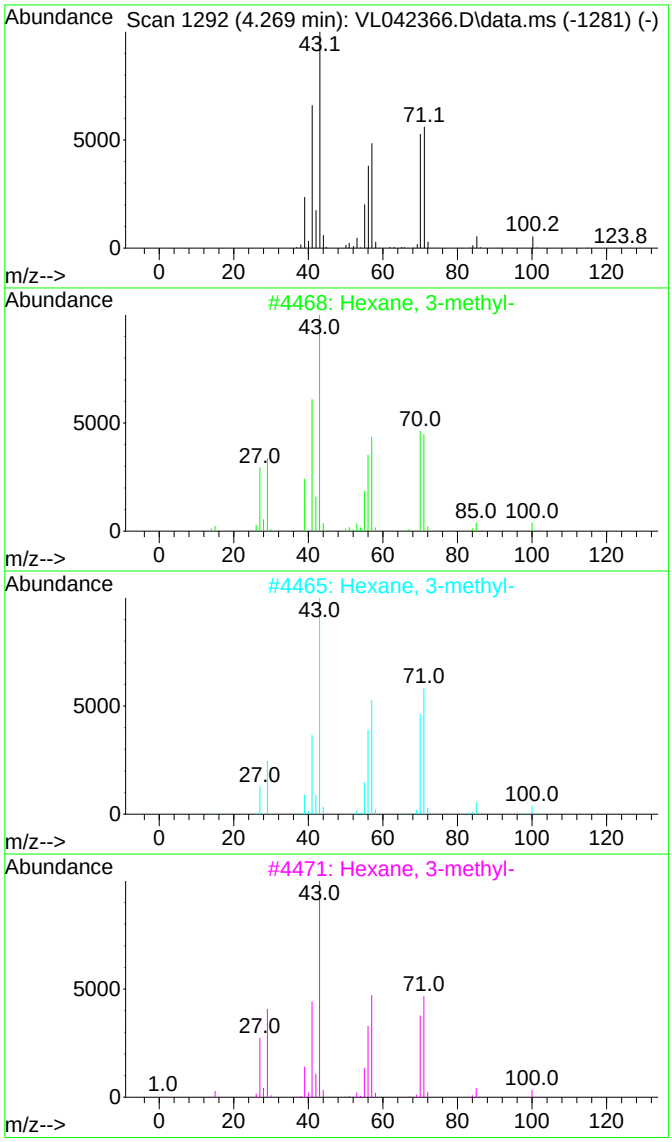
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

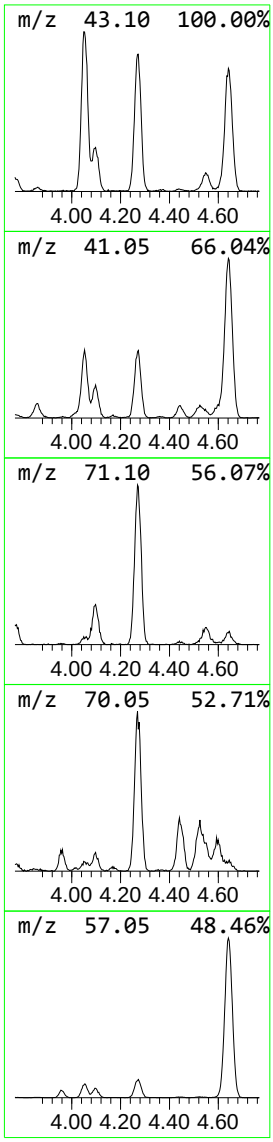
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.269	11.20 ppbv	1052000	1,4-Difluorobenzene	3.959

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 3-methyl-	100	C7H16	000589-34-4	95
2	Hexane, 3-methyl-	100	C7H16	000589-34-4	94
3	Hexane, 3-methyl-	100	C7H16	000589-34-4	91
4	1-Pentanol, 2-methyl-	102	C6H14O	000105-30-6	78
5	Heptane	100	C7H16	000142-82-5	72





Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042366.D
Acq On : 17 Apr 2025 20:05
Operator : SY/MD
Sample : Q1726-01
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025

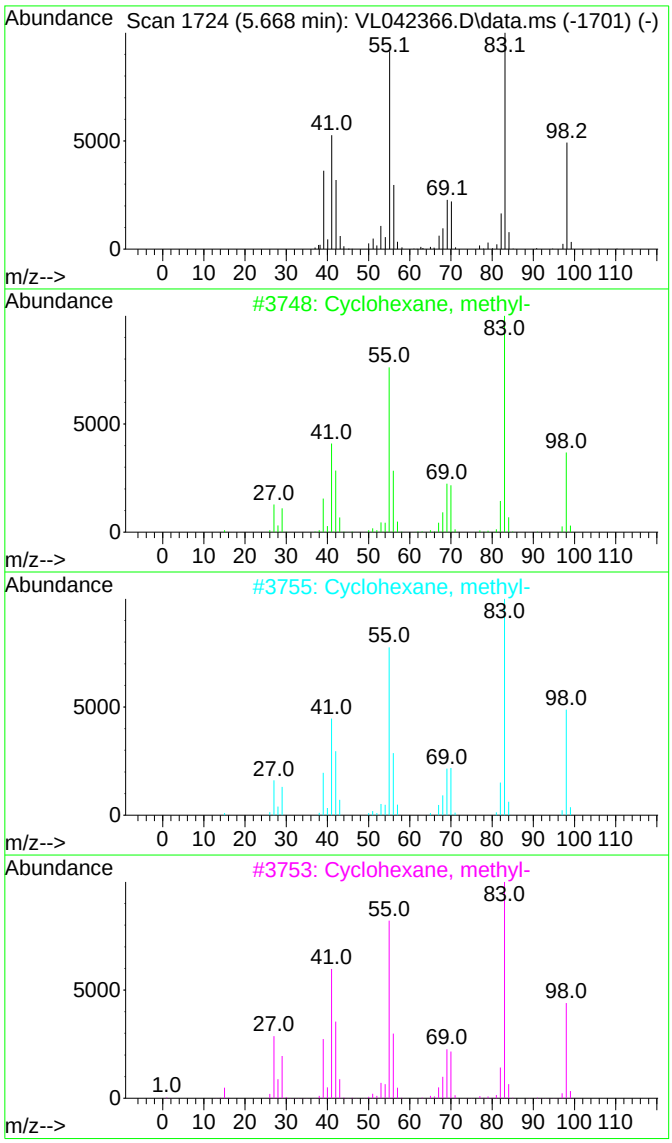
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

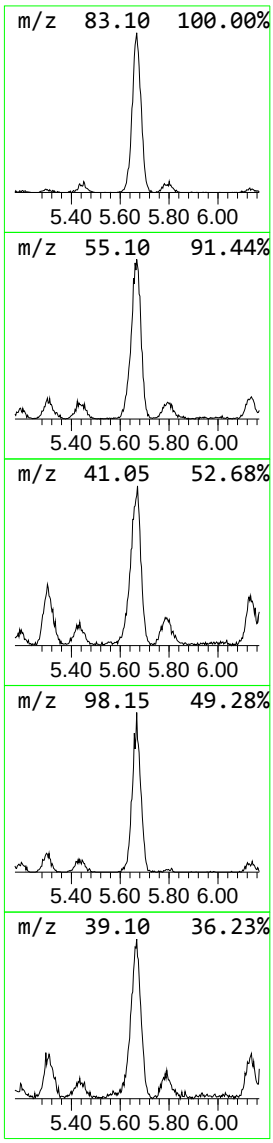
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 4 Cyclohexane, methyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.668	9.30 ppbv	873147	1,4-Difluorobenzene	3.959

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, methyl-	98	C7H14	000108-87-2	97
2	Cyclohexane, methyl-	98	C7H14	000108-87-2	97
3	Cyclohexane, methyl-	98	C7H14	000108-87-2	97
4	Cyclohexane, methyl-	98	C7H14	000108-87-2	80
5	Cyclohexane, methyl-	98	C7H14	000108-87-2	80





Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042366.D
Acq On : 17 Apr 2025 20:05
Operator : SY/MD
Sample : Q1726-01
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025

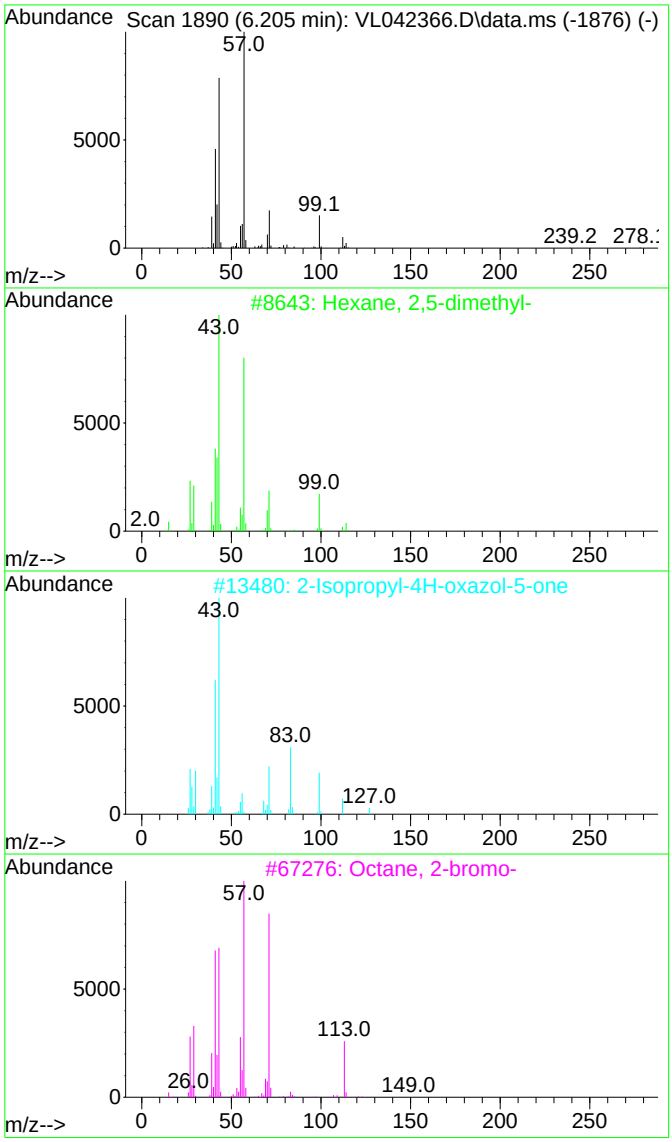
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

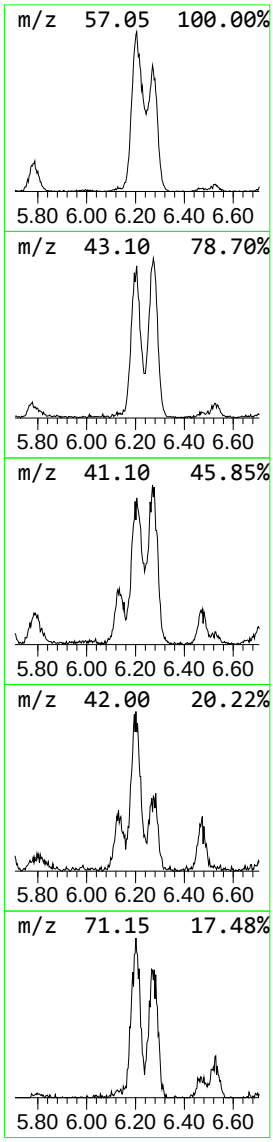
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 5 Hexane, 2,5-dimethyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.205	6.51 ppbv	611758	1,4-Difluorobenzene	3.959

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2,5-dimethyl-	114	C8H18	000592-13-2	64
2	2-Isopropyl-4H-oxazol-5-one	127	C6H9NO2	1000190-01-9	47
3	Octane, 2-bromo-	192	C8H17Br	000557-35-7	42
4	Undecane, 2,6-dimethyl-	184	C13H28	017301-23-4	40
5	Heptane, 2-methyl-	114	C8H18	000592-27-8	40





Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042366.D
Acq On : 17 Apr 2025 20:05
Operator : SY/MD
Sample : Q1726-01
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025

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

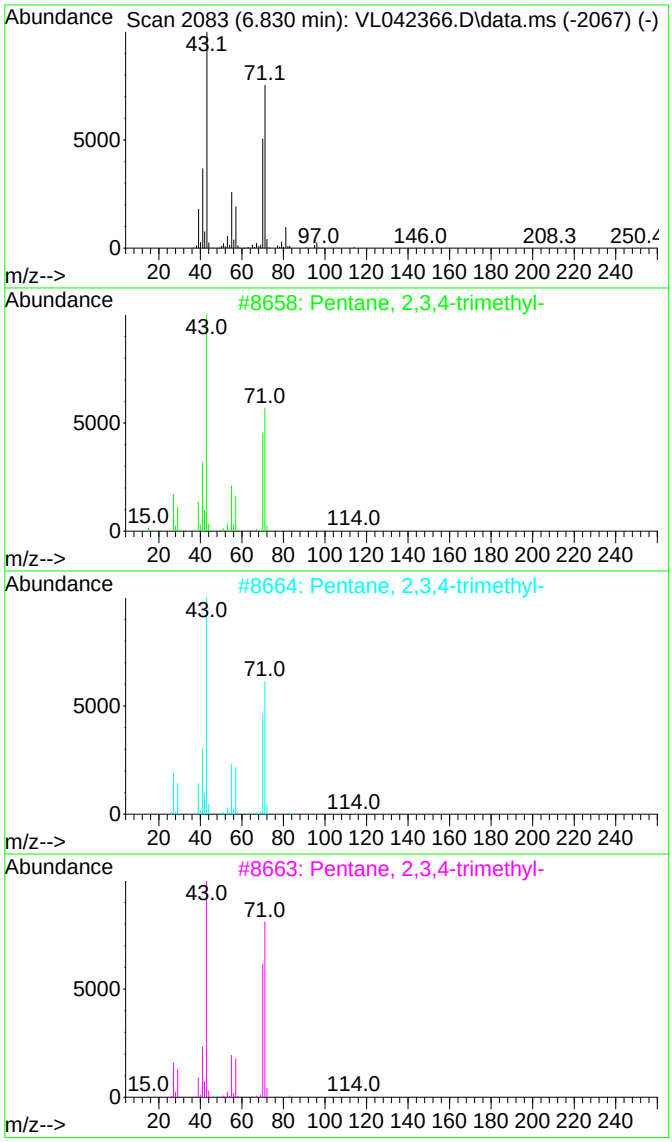
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

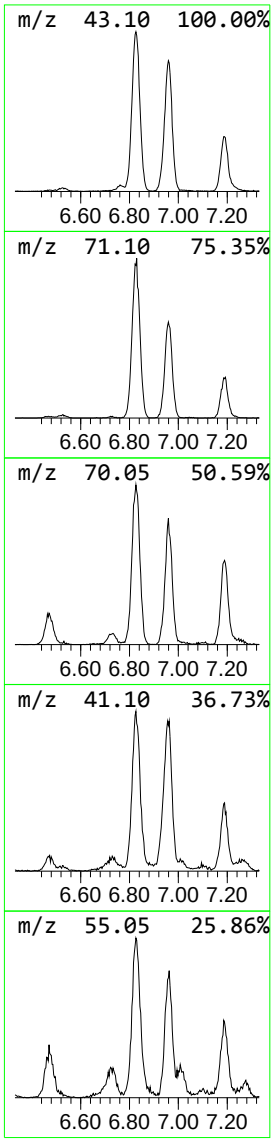
****

Peak Number 6 Pentane, 2,3,4-trimethyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.830	12.52 ppbv	1573920	Chlorobenzene-d5	8.882

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	90
2	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	87
3	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	86
4	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	86
5	Heptane, 4-methyl-	114	C8H18	000589-53-7	78





Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042366.D
Acq On : 17 Apr 2025 20:05
Operator : SY/MD
Sample : Q1726-01
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025

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

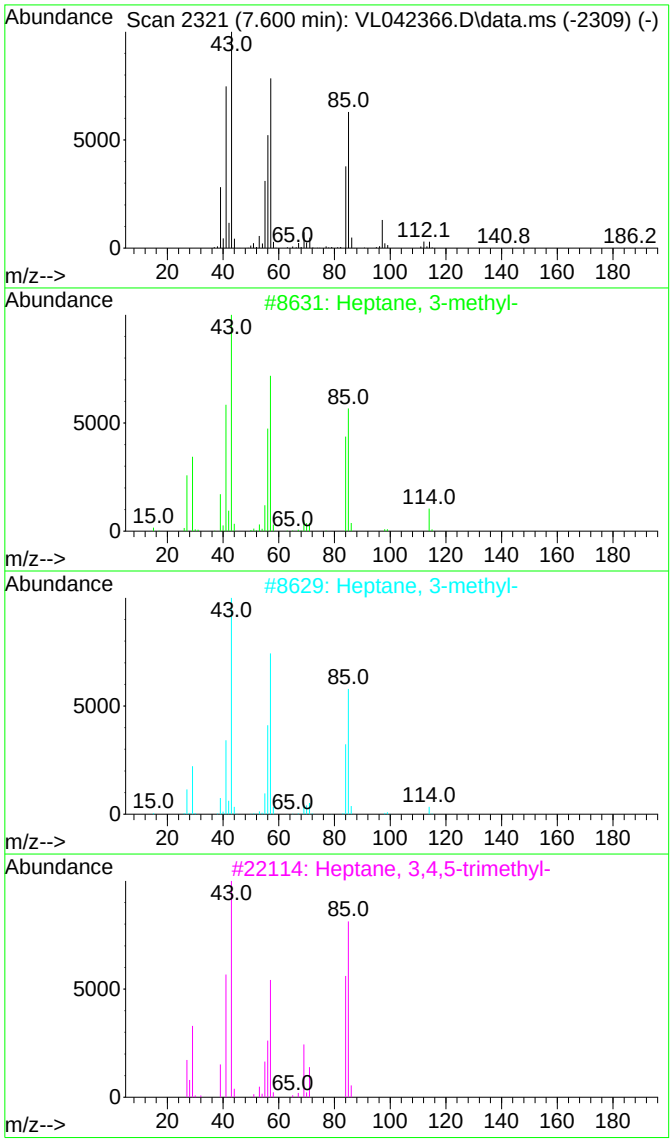
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

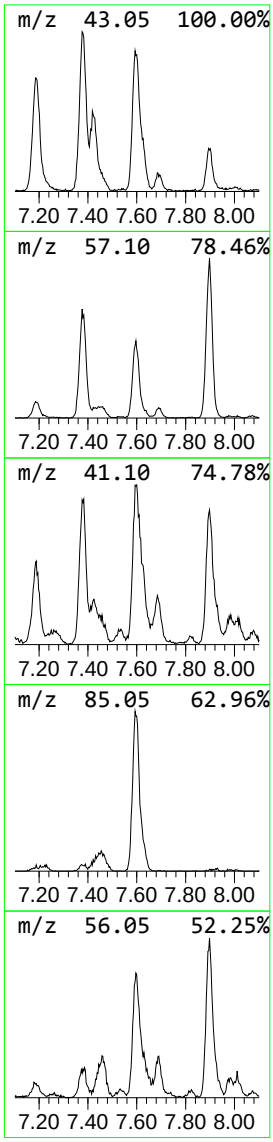
****

Peak Number 7 Heptane, 3-methyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.600	9.47 ppbv	1189690	Chlorobenzene-d5	8.882

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptane, 3-methyl-	114	C8H18	000589-81-1	78
2	Heptane, 3-methyl-	114	C8H18	000589-81-1	72
3	Heptane, 3,4,5-trimethyl-	142	C10H22	020278-89-1	59
4	Butane, 2,2,3-trimethyl-	100	C7H16	000464-06-2	59
5	Hexane, 2,4-dimethyl-	114	C8H18	000589-43-5	58





Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042366.D
Acq On : 17 Apr 2025 20:05
Operator : SY/MD
Sample : Q1726-01
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025

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

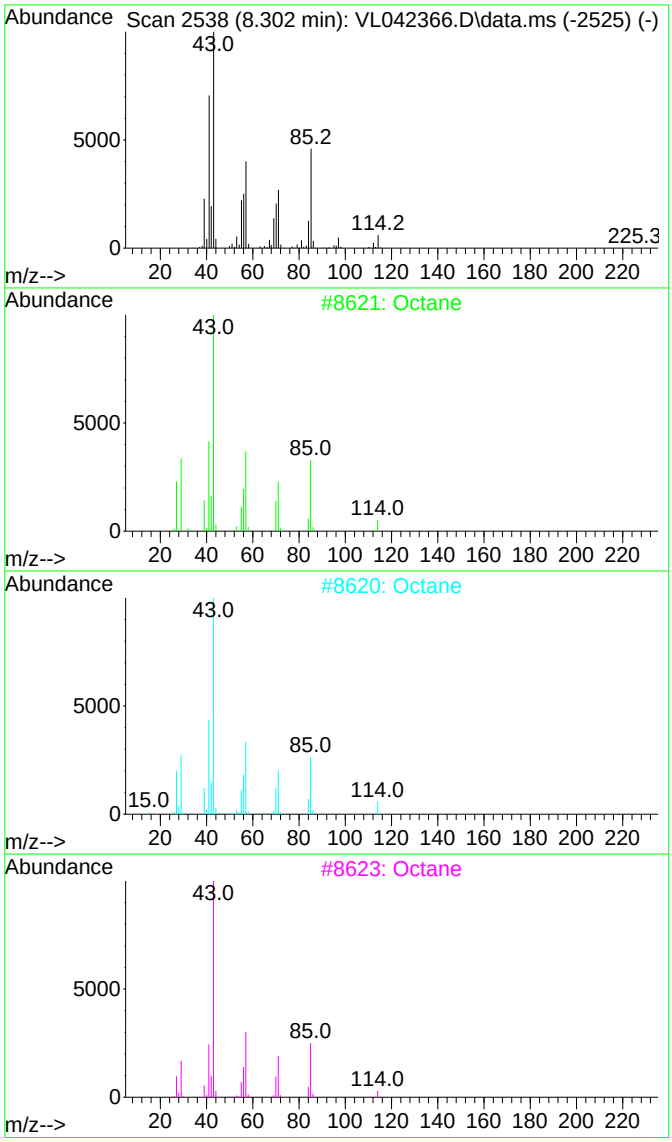
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

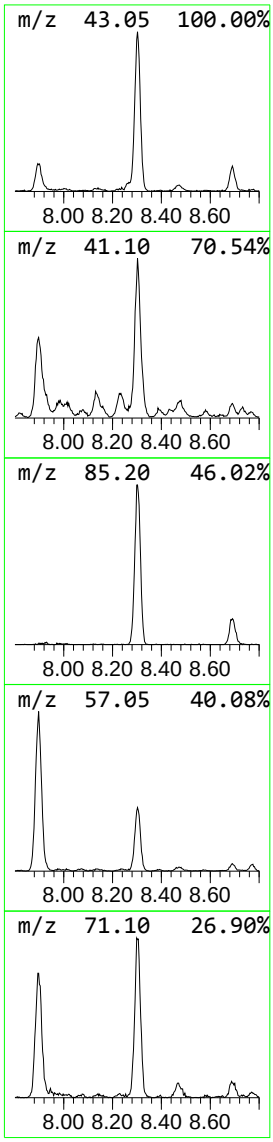
****

Peak Number 8 Octane Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.302	9.67 ppbv	1215090	Chlorobenzene-d5	8.882

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octane	114	C8H18	000111-65-9	90
2	Octane	114	C8H18	000111-65-9	90
3	Octane	114	C8H18	000111-65-9	83
4	Heptane, 2,4-dimethyl-	128	C9H20	002213-23-2	59
5	Octane	114	C8H18	000111-65-9	58





Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042366.D
Acq On : 17 Apr 2025 20:05
Operator : SY/MD
Sample : Q1726-01
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025

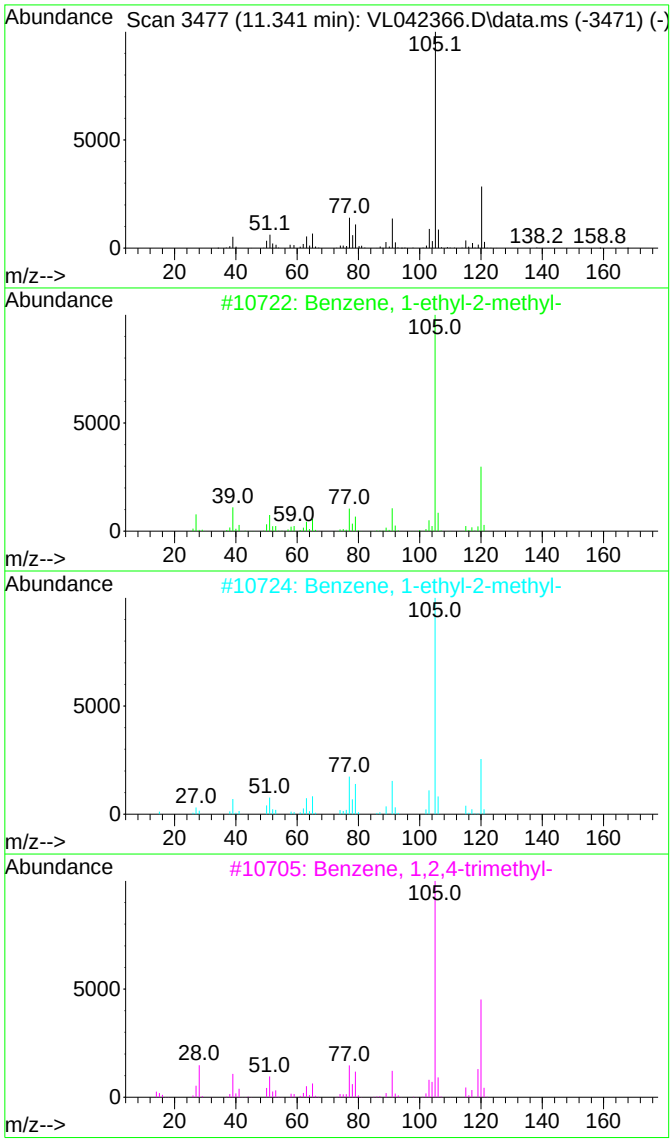
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

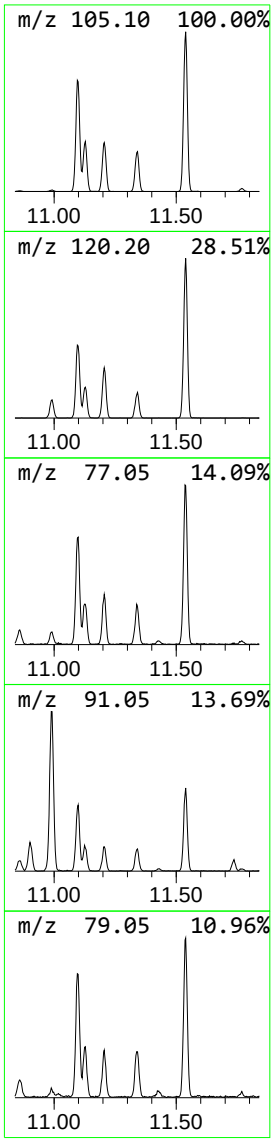
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 9 Benzene, 1-ethyl-2-methyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.341	6.96 ppbv	874640	Chlorobenzene-d5	8.882

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-ethyl-2-methyl-	120	C9H12	000611-14-3	94
2	Benzene, 1-ethyl-2-methyl-	120	C9H12	000611-14-3	94
3	Benzene, 1,2,4-trimethyl-	120	C9H12	000095-63-6	91
4	Benzene, 1-ethyl-4-methyl-	120	C9H12	000622-96-8	91
5	Benzene, 1-ethyl-3-methyl-	120	C9H12	000620-14-4	91





Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042366.D
Acq On : 17 Apr 2025 20:05
Operator : SY/MD
Sample : Q1726-01
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025

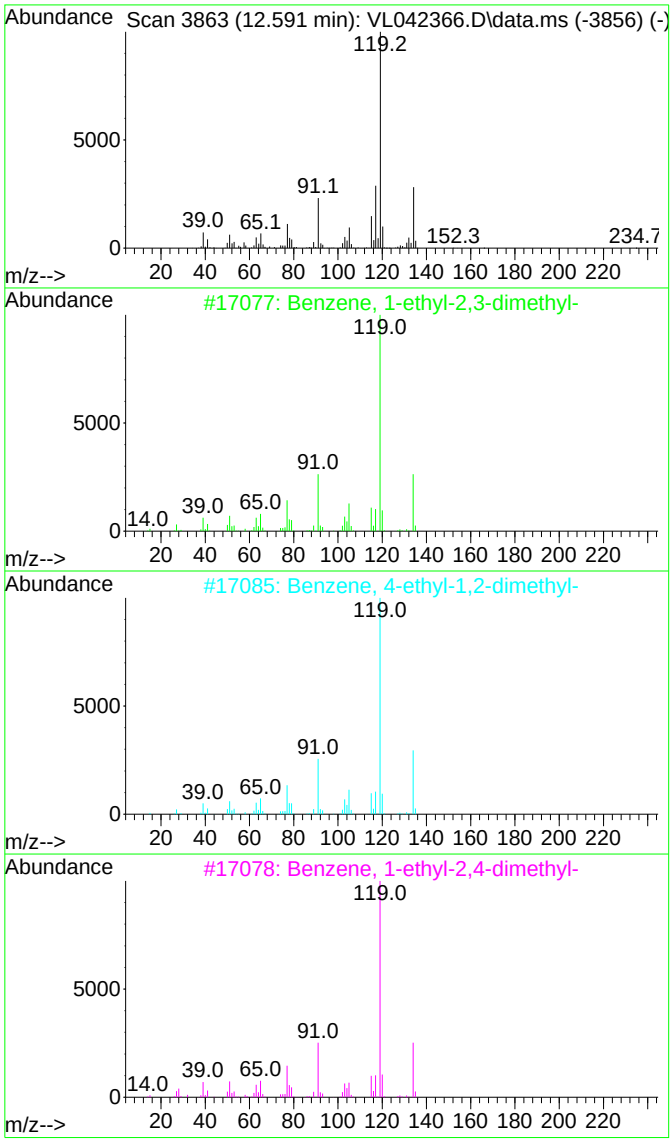
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

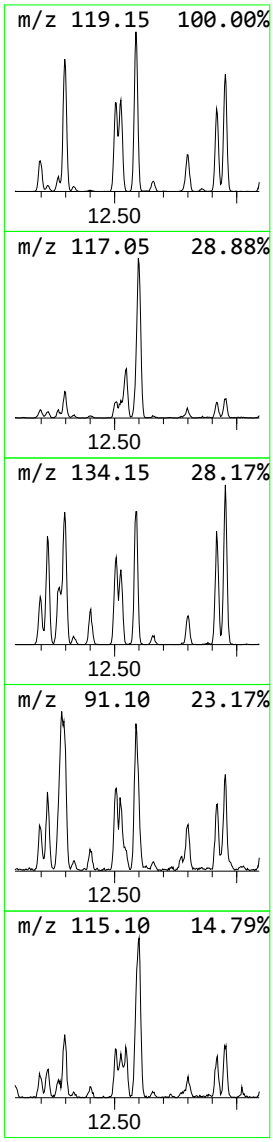
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 10 Benzene, 1-ethyl-2,3-dimethyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.591	7.59 ppbv	953656	Chlorobenzene-d5	8.882

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-ethyl-2,4-dimethyl-	134	C10H14	000874-41-9	93
4	Benzene, 2-ethyl-1,3-dimethyl-	134	C10H14	002870-04-4	91
5	Benzene, 4-ethyl-1,2-dimethyl-	134	C10H14	000934-80-5	87





Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042366.D
Acq On : 17 Apr 2025 20:05
Operator : SY/MD
Sample : Q1726-01
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025

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
Butane	1.622	7.9	ppbv	361441	1	2.787	459034	10.0
Hexane, 2-methyl-	4.053	10.4	ppbv	974029	2	3.959	939304	10.0
Hexane, 3-methyl-	4.269	11.2	ppbv	1052000	2	3.959	939304	10.0
Cyclohexane, me...	5.668	9.3	ppbv	873147	2	3.959	939304	10.0
Hexane, 2,5-dim...	6.205	6.5	ppbv	611758	2	3.959	939304	10.0
Pentane, 2,3,4-...	6.830	12.5	ppbv	1573920	3	8.882	1256710	10.0
Heptane, 3-methyl-	7.600	9.5	ppbv	1189690	3	8.882	1256710	10.0
Octane	8.302	9.7	ppbv	1215090	3	8.882	1256710	10.0
Benzene, 1-ethy...	11.341	7.0	ppbv	874640	3	8.882	1256710	10.0
Benzene, 1-ethy...	12.591	7.6	ppbv	953656	3	8.882	1256710	10.0

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

Report of Analysis

Client:	Woodard & Curran	Date Collected:	04/01/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	IA-DUP-3-03312025DL	SDG No.:	Q1726
Lab Sample ID:	Q1726-01DL	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
VL042376.D	20		04/18/25 01:30	VL041725

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	4.20	20.8	UD	20.8	49.5	ug/m3
64-17-5	Ethanol	330	622	EDQ	12.1	18.8	ug/m3
74-87-3	Chloromethane	2.00	4.13	UD	4.13	20.6	ug/m3
75-01-4	Vinyl Chloride	0.28	0.72	UD	0.72	1.53	ug/m3
74-83-9	Bromomethane	2.80	10.9	UD	10.9	38.8	ug/m3
75-00-3	Chloroethane	3.40	8.97	UD	8.97	26.4	ug/m3
109-99-9	Tetrahydrofuran	2.60	7.67	UD	7.67	29.5	ug/m3
75-69-4	Trichlorofluoromethane	3.20	18.0	UD	18.0	56.2	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	3.20	24.5	UD	24.5	76.7	ug/m3
76-14-2	Dichlorotetrafluoroethane	1.80	12.6	UD	12.6	69.9	ug/m3
593-60-2	Bromoethene	2.40	10.5	UD	10.5	43.7	ug/m3
75-65-0	tert-Butyl alcohol	3.80	11.5	UD	11.5	30.3	ug/m3
142-82-5	Heptane	9.60	39.3	JD	9.02	41.0	ug/m3
67-63-0	Isopropyl Alcohol	35.9	88.2	D	3.44	24.6	ug/m3
75-35-4	1,1-Dichloroethene	2.80	11.1	UD	11.1	39.6	ug/m3
67-64-1	Acetone	630	1500	ED	11.4	23.8	ug/m3
75-15-0	Carbon Disulfide	3.20	9.97	UD	9.97	31.1	ug/m3
1634-04-4	Methyl tert-Butyl Ether	2.40	8.65	UD	8.65	36.0	ug/m3
75-09-2	Methylene Chloride	3.80	13.2	UD	13.2	34.7	ug/m3
156-60-5	trans-1,2-Dichloroethene	3.80	15.1	UD	15.1	39.6	ug/m3
75-34-3	1,1-Dichloroethane	2.60	10.5	UD	10.5	40.5	ug/m3
110-82-7	Cyclohexane	4.40	15.2	UD	15.2	34.4	ug/m3
78-93-3	2-Butanone	2.40	7.08	UD	7.08	29.5	ug/m3
56-23-5	Carbon Tetrachloride	0.22	1.38	UD	1.38	3.77	ug/m3
156-59-2	cis-1,2-Dichloroethene	1.80	7.14	UD	7.14	39.6	ug/m3
67-66-3	Chloroform	1.70	8.30	UD	8.30	48.8	ug/m3
71-55-6	1,1,1-Trichloroethane	0.19	1.04	UD	1.04	3.27	ug/m3
540-84-1	2,2,4-Trimethylpentane	20.4	95.3	D	9.34	46.7	ug/m3
71-43-2	Benzene	2.30	7.35	JD	5.43	31.9	ug/m3
107-06-2	1,2-Dichloroethane	1.80	7.29	UD	7.29	40.5	ug/m3
79-01-6	Trichloroethene	0.34	1.83	UD	1.83	3.22	ug/m3
78-87-5	1,2-Dichloropropane	2.20	10.2	UD	10.2	46.2	ug/m3
75-27-4	Bromodichloromethane	1.50	10.1	UD	10.1	67.0	ug/m3
108-10-1	4-Methyl-2-Pentanone	1.90	7.79	UD	7.79	41.0	ug/m3
108-88-3	Toluene	57.5	217	D	8.29	37.7	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:	04/01/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	IA-DUP-3-03312025DL	SDG No.:	Q1726
Lab Sample ID:	Q1726-01DL	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
VL042376.D	20		04/18/25 01:30	VL041725

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	1.20	5.45	UD	5.45	45.4	ug/m3
10061-01-5	cis-1,3-Dichloropropene	1.30	5.90	UD	5.90	45.4	ug/m3
79-00-5	1,1,2-Trichloroethane	1.40	7.64	UD	7.64	54.6	ug/m3
124-48-1	Dibromochloromethane	1.30	11.1	UD	11.1	85.2	ug/m3
106-93-4	1,2-Dibromoethane	1.40	10.8	UD	10.8	15.4	ug/m3
127-18-4	Tetrachloroethene	0.30	2.03	UD	2.03	4.07	ug/m3
108-90-7	Chlorobenzene	1.50	6.91	UD	6.91	46.0	ug/m3
100-41-4	Ethyl Benzene	12.1	52.6	D	10.4	43.4	ug/m3
179601-23-1	m/p-Xylene	44.3	192	D	18.2	86.9	ug/m3
95-47-6	o-Xylene	17.2	74.7	D	10.4	43.4	ug/m3
100-42-5	Styrene	2.20	9.37	UD	9.37	42.6	ug/m3
75-25-2	Bromoform	1.10	11.4	UD	11.4	103	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	0.22	1.51	UD	1.51	4.12	ug/m3
95-49-8	2-Chlorotoluene	2.20	11.4	UD	11.4	51.8	ug/m3
108-67-8	1,3,5-Trimethylbenzene	7.50	36.9	JD	10.8	49.2	ug/m3
95-63-6	1,2,4-Trimethylbenzene	22.6	111	D	7.87	49.2	ug/m3
541-73-1	1,3-Dichlorobenzene	1.60	9.62	UD	9.62	60.1	ug/m3
106-46-7	1,4-Dichlorobenzene	1.10	6.61	UD	6.61	60.1	ug/m3
95-50-1	1,2-Dichlorobenzene	1.50	9.02	UD	9.02	60.1	ug/m3
120-82-1	1,2,4-Trichlorobenzene	1.70	12.6	UD	12.6	74.2	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	1.70	18.1	UD	18.1	107	ug/m3
106-99-0	1,3-Butadiene	2.60	5.75	UD	5.75	22.1	ug/m3
91-20-3	Naphthalene	1.50	7.86	UD	7.86	10.5	ug/m3
622-96-8	4-Ethyltoluene	6.50	32.0	JD	11.8	49.2	ug/m3
110-54-3	Hexane	2.20	7.75	UD	7.75	35.2	ug/m3
107-05-1	Allyl Chloride	3.00	9.39	UD	9.39	31.3	ug/m3
123-91-1	1,4-Dioxane	4.20	15.1	UD	15.1	36.0	ug/m3
80-62-6	Methyl Methacrylate	1.70	6.96	UD	6.96	41.0	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	100000		2.787			
540-36-3	1,4-Difluorobenzene	288000		3.959			
3114-55-4	Chlorobenzene-d5	249000		8.882			

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

Report of Analysis

Client:	Woodard & Curran	Date Collected:	04/01/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	IA-DUP-3-03312025DL	SDG No.:	Q1726
Lab Sample ID:	Q1726-01DL	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
VL042376.D	20		04/18/25 01:30	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 : VL042376.D
Acq On : 18 Apr 2025 01:30
Operator : SY/MD
Sample : Q1726-01DL 20X
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 18 04:39:28 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-DUP-3-03312025DL

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	100356	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.959	114	288404	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.882	117	249449	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.377	95	207163	10.106	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 101.100%				
Target Compounds							Qvalue
9) Propene	1.489	41	1554m	0.202	ppbv		
10) Heptane	4.978	43	10406	0.482	ppbv		91
13) Ethanol	1.722	45	20340	16.643	ppbv		80
15) Acetone	1.835	43	516180	31.420	ppbv		98
19) Isopropyl Alcohol	1.887	45	16398	1.797	ppbv	#	1
30) Cyclohexane	3.868	84	1581m	0.119	ppbv		
36) Benzene	3.658	78	3637m	0.117	ppbv		
44) 2,2,4-Trimethylpentane	4.641	57	54714	1.018	ppbv		94
53) Toluene	6.930	91	107299	2.874	ppbv		98
58) Ethyl Benzene	9.354	91	29882	0.605	ppbv		94
59) m/p-Xylene	9.529	91	88263	2.217	ppbv		99
60) o-Xylene	9.963	91	34430	0.859	ppbv		97
64) n-propylbenzene	10.992	120	2336	0.158	ppbv		75
72) 4-Ethyltoluene	11.128	105	15927	0.325	ppbv	#	56
73) 1,3,5-Trimethylbenzene	11.205	105	16220	0.375	ppbv		95
74) 1,2,4-Trimethylbenzene	11.536	105	57208	1.132	ppbv	#	60

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

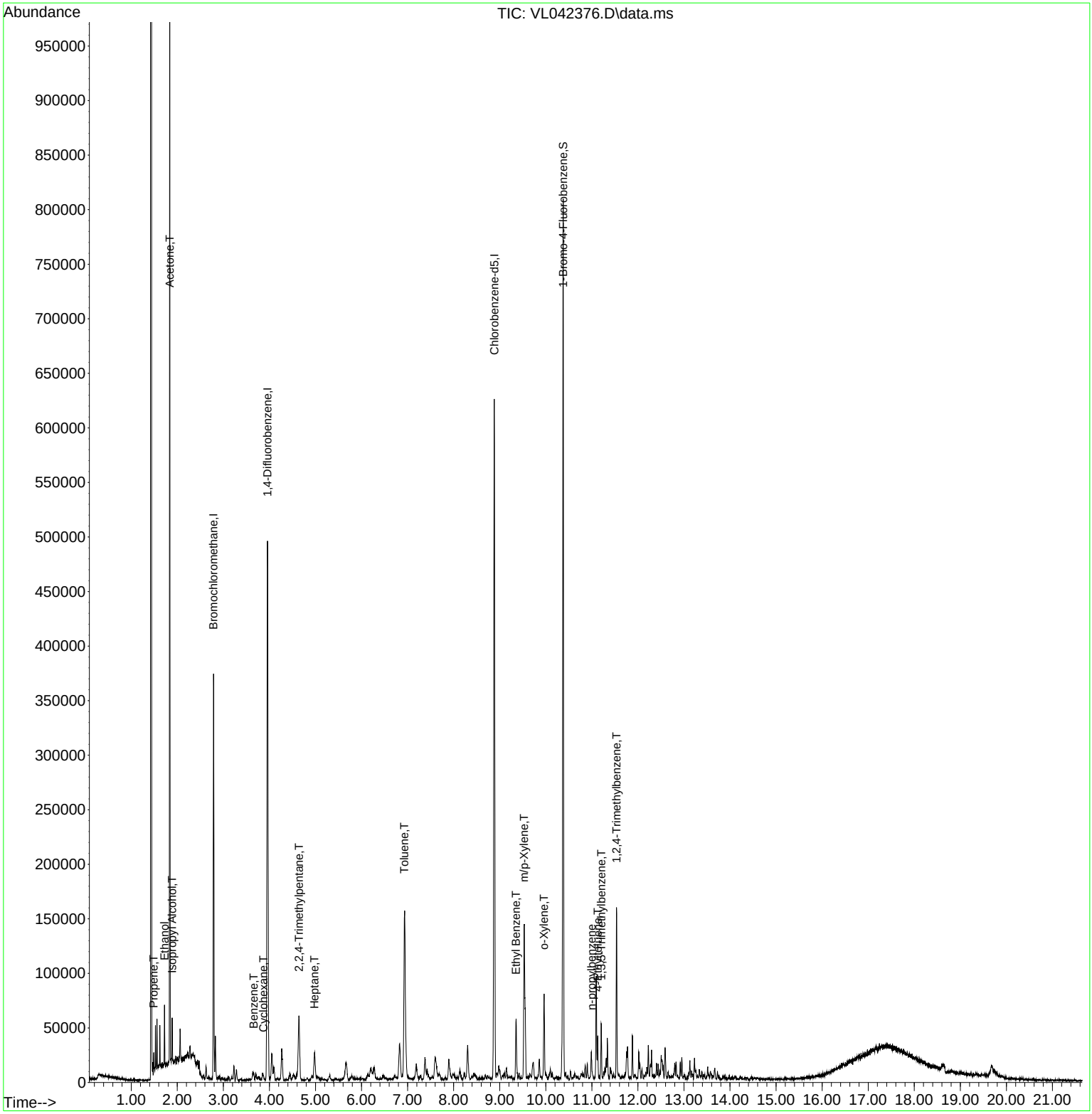
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042376.D
Acq On : 18 Apr 2025 01:30
Operator : SY/MD
Sample : Q1726-01DL 20X
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

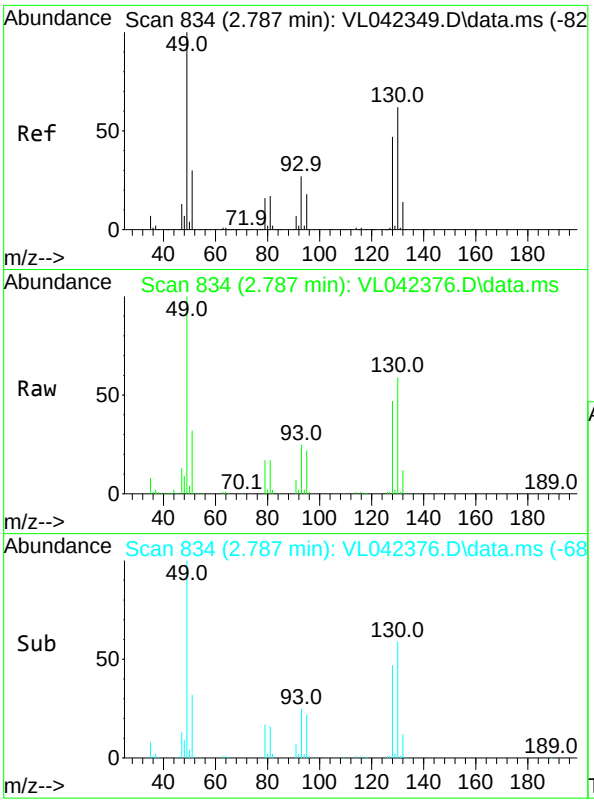
Quant Time: Apr 18 04:39:28 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025DL

Manual Integrations APPROVED

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

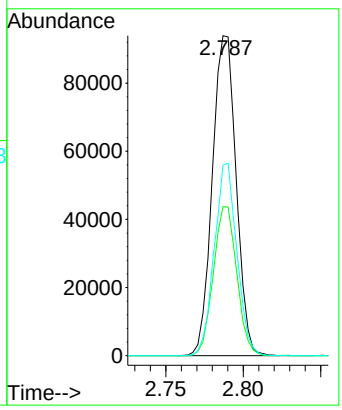




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL042376.D
Acq: 18 Apr 2025 01:30

Tgt Ion: 49 Resp: 10035

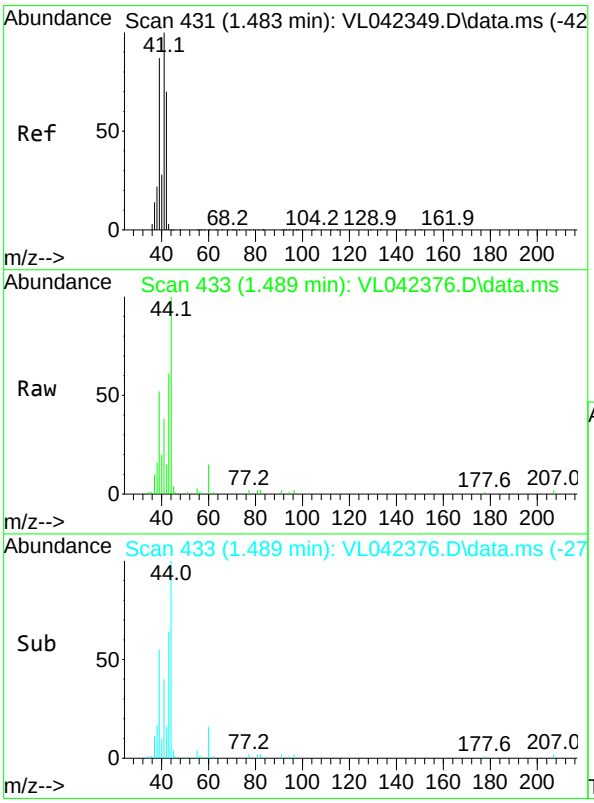
Ion	Ratio	Lower	Upper
49	100		
128	45.8	22.8	68.4
130	57.1	29.3	88.0



Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025DL

Manual Integrations
APPROVED

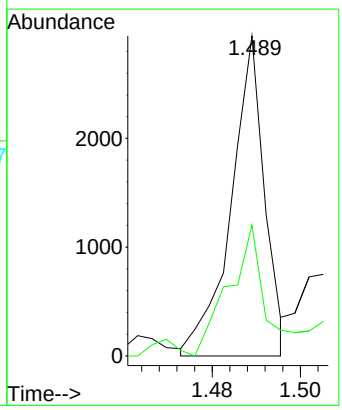
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

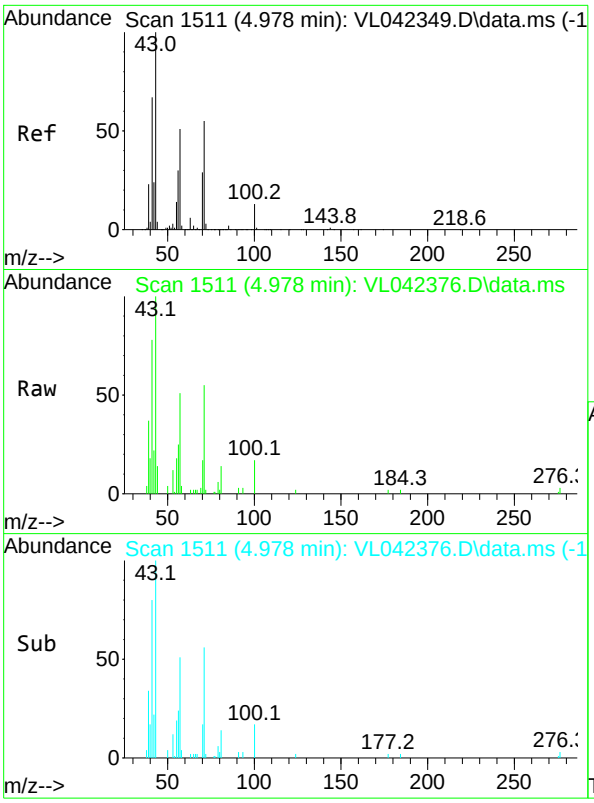


#9
Propene
Concen: 0.202 ppbv m
RT: 1.489 min Scan# 433
Delta R.T. 0.006 min
Lab File: VL042376.D
Acq: 18 Apr 2025 01:30

Tgt Ion: 41 Resp: 1554

Ion	Ratio	Lower	Upper
41	100		
42	183.7	56.2	84.4#





#10
Heptane
Concen: 0.482 ppbv
RT: 4.978 min Scan# 1
Delta R.T. -0.000 min
Lab File: VL042376.D
Acq: 18 Apr 2025 01:30

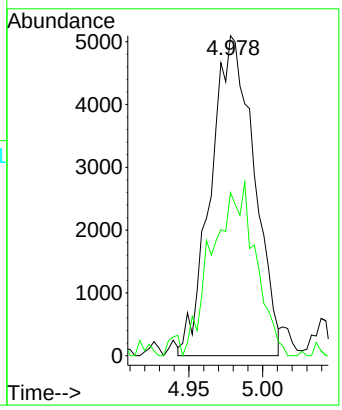
Tgt Ion: 43 Resp: 1040

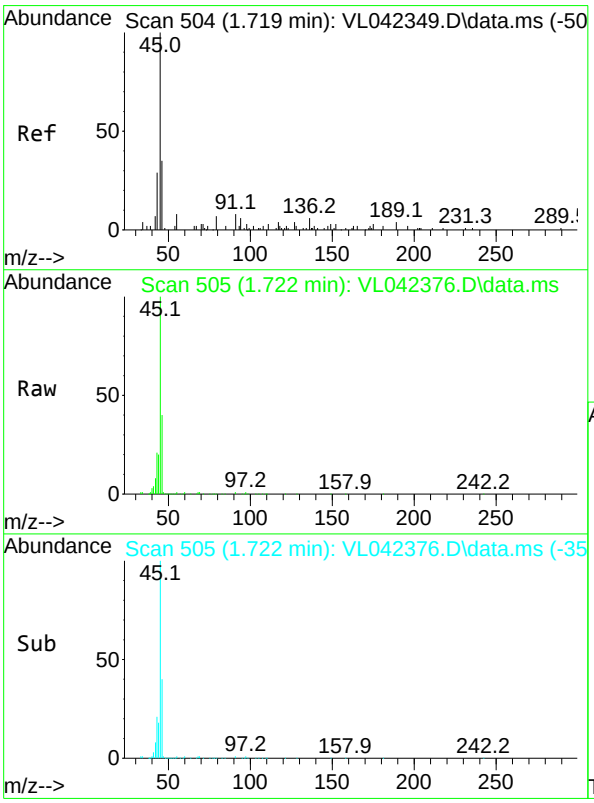
Ion	Ratio	Lower	Upper
43	100		
57	56.4	39.9	59.9

Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025DL

Manual Integrations
APPROVED

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

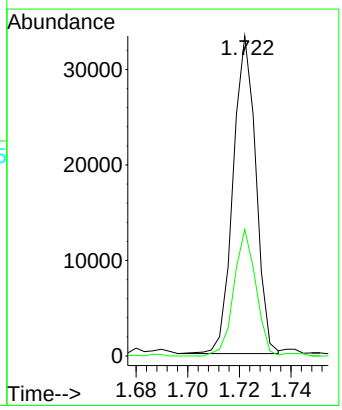


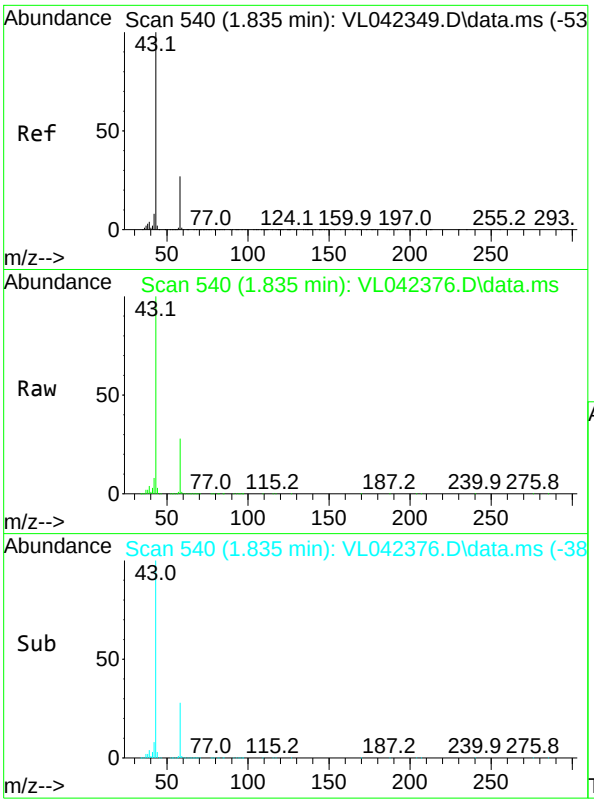


#13
Ethanol
Concen: 16.643 ppbv
RT: 1.722 min Scan# 505
Delta R.T. 0.003 min
Lab File: VL042376.D
Acq: 18 Apr 2025 01:30

Tgt Ion: 45 Resp: 20340

Ion	Ratio	Lower	Upper
45	100		
46	40.5	21.9	87.7

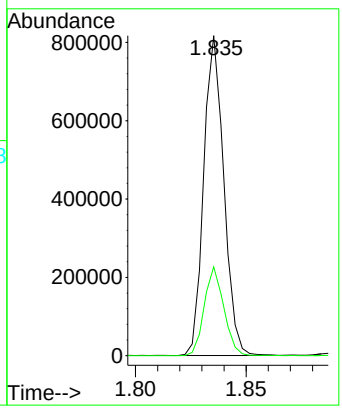




#15
Acetone
Concen: 31.420 ppbv
RT: 1.835 min Scan# 54
Delta R.T. -0.000 min
Lab File: VL042376.D
Acq: 18 Apr 2025 01:30

Tgt Ion: 43 Resp: 51618

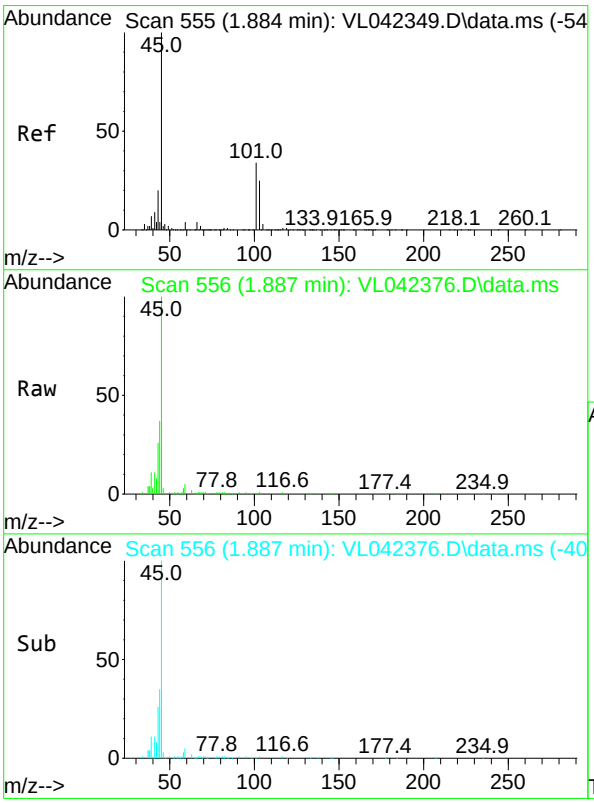
Ion	Ratio	Lower	Upper
43	100		
58	27.1	22.4	33.6



Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025DL

Manual Integrations
APPROVED

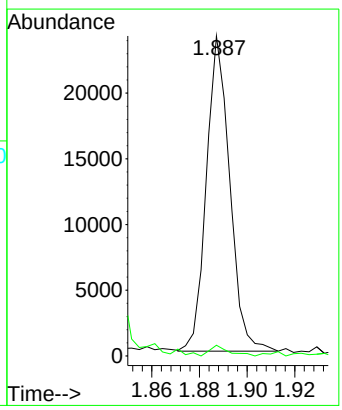
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

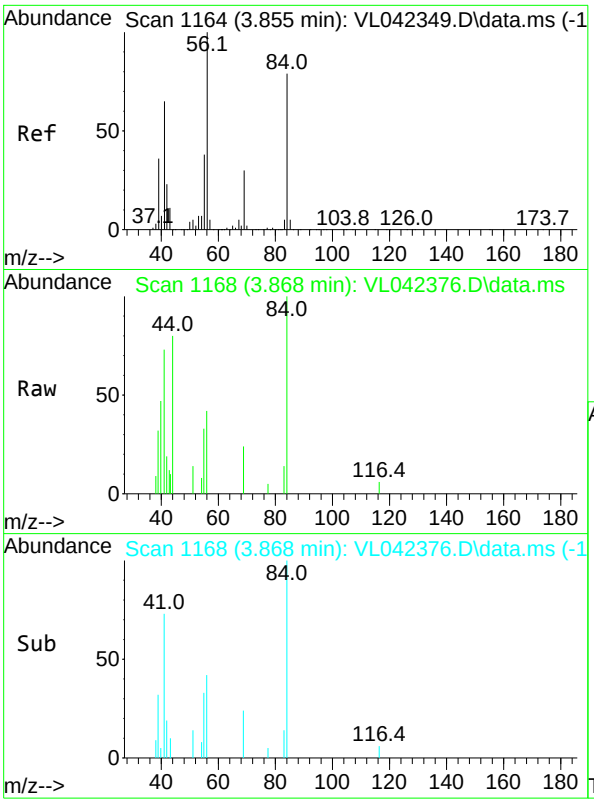


#19
Isopropyl Alcohol
Concen: 1.797 ppbv
RT: 1.887 min Scan# 556
Delta R.T. 0.003 min
Lab File: VL042376.D
Acq: 18 Apr 2025 01:30

Tgt Ion: 45 Resp: 16398

Ion	Ratio	Lower	Upper
45	100		
58	851.7	34.5	51.7#

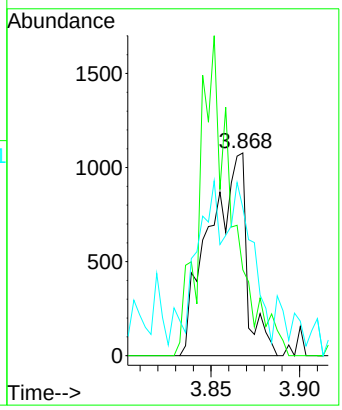




#30
Cyclohexane
Concen: 0.119 ppbv m
RT: 3.868 min Scan# 11
Delta R.T. 0.013 min
Lab File: VL042376.D
Acq: 18 Apr 2025 01:30

Tgt Ion: 84 Resp: 158

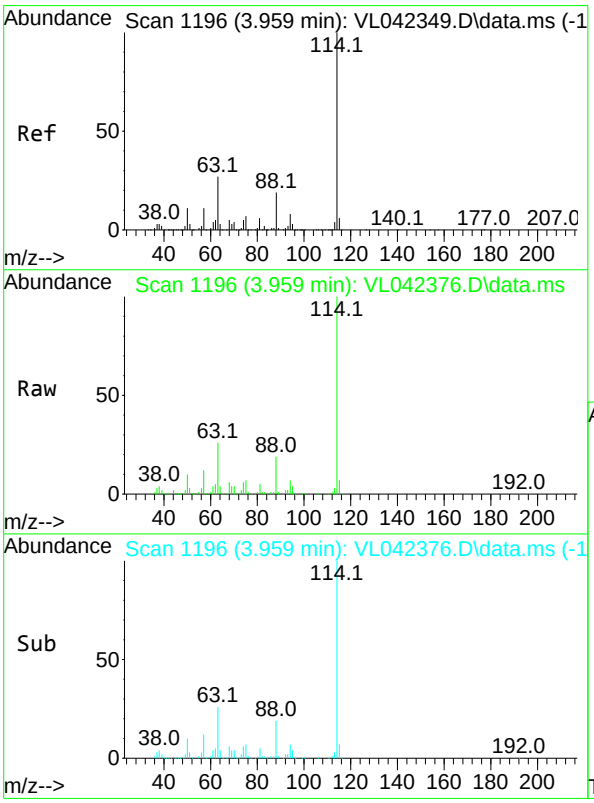
Ion	Ratio	Lower	Upper
84	100		
56	138.1	101.0	151.4
41	124.3	67.4	101.0#



Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025DL

Manual Integrations
APPROVED

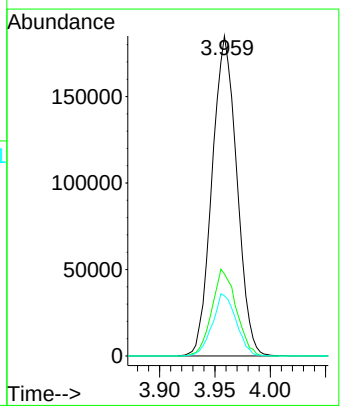
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

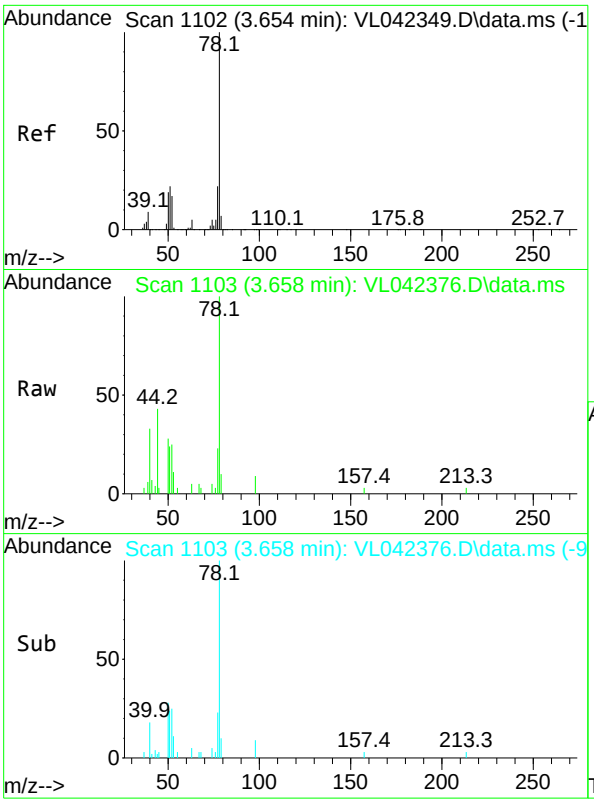


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.959 min Scan# 1196
Delta R.T. -0.000 min
Lab File: VL042376.D
Acq: 18 Apr 2025 01:30

Tgt Ion:114 Resp: 288404

Ion	Ratio	Lower	Upper
114	100		
63	26.7	21.8	32.6
88	18.6	15.5	23.3

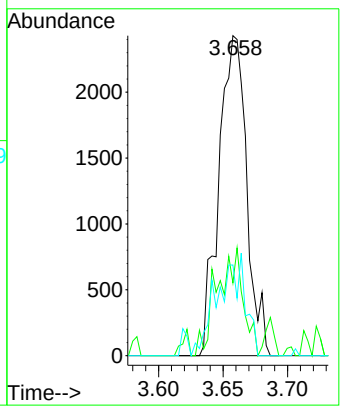




#36
Benzene
Concen: 0.117 ppbv m
RT: 3.658 min Scan# 1
Delta R.T. 0.003 min
Lab File: VL042376.D
Acq: 18 Apr 2025 01:30

Tgt Ion: 78 Resp: 363

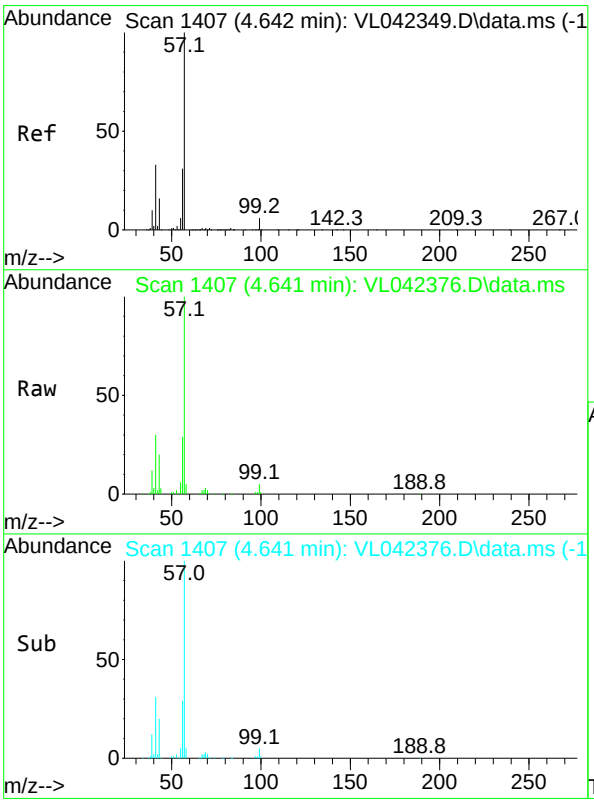
Ion	Ratio	Lower	Upper
78	100		
77	22.8	17.4	26.0
50	28.3	15.5	23.3



Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025DL

Manual Integrations
APPROVED

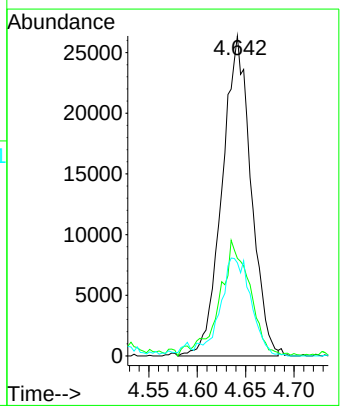
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

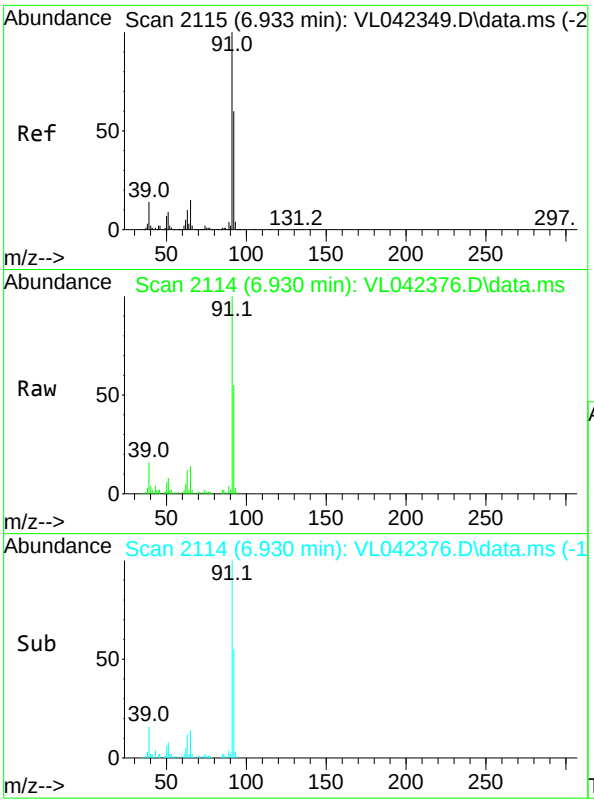


#44
2,2,4-Trimethylpentane
Concen: 1.018 ppbv
RT: 4.641 min Scan# 1407
Delta R.T. -0.000 min
Lab File: VL042376.D
Acq: 18 Apr 2025 01:30

Tgt Ion: 57 Resp: 54714

Ion	Ratio	Lower	Upper
57	100		
41	38.6	27.2	40.8
56	34.7	25.7	38.5

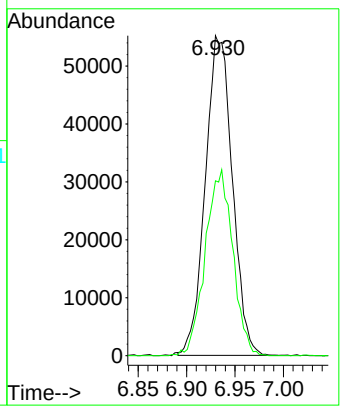




#53
Toluene
Concen: 2.874 ppbv
RT: 6.930 min Scan# 21
Delta R.T. -0.003 min
Lab File: VL042376.D
Acq: 18 Apr 2025 01:30

Tgt Ion: 91 Resp: 10729

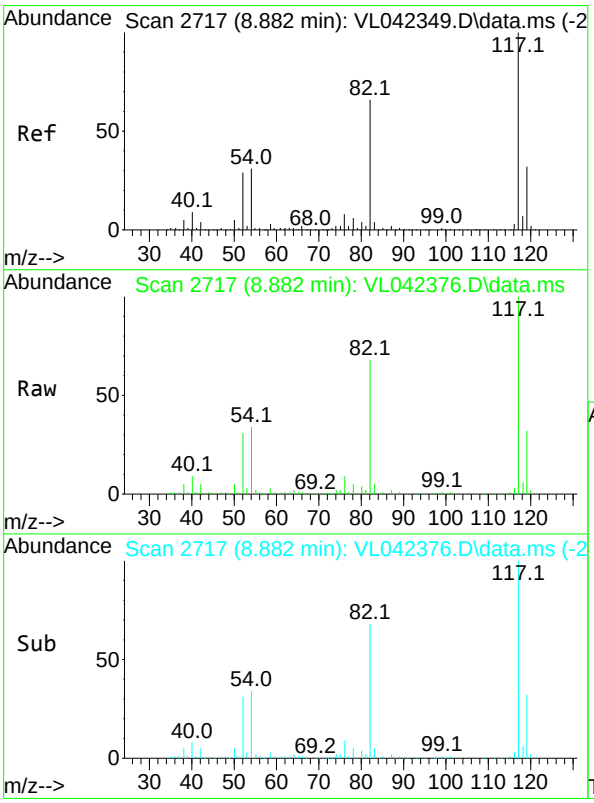
Ion	Ratio	Lower	Upper
91	100		
92	59.1	48.2	72.4



Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025DL

Manual Integrations
APPROVED

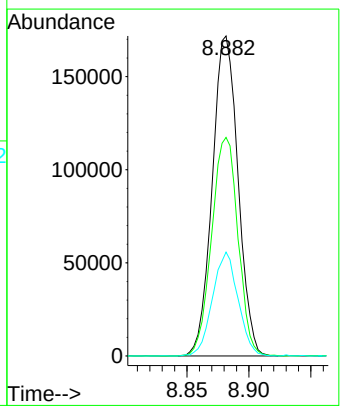
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

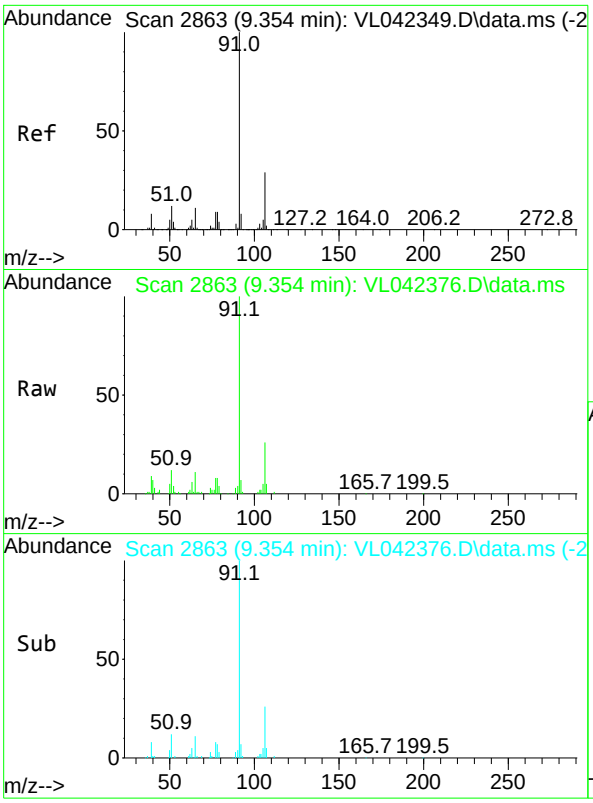


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.882 min Scan# 2717
Delta R.T. -0.000 min
Lab File: VL042376.D
Acq: 18 Apr 2025 01:30

Tgt Ion:117 Resp: 249449

Ion	Ratio	Lower	Upper
117	100		
82	69.7	57.8	86.6
119	32.2	25.2	37.8

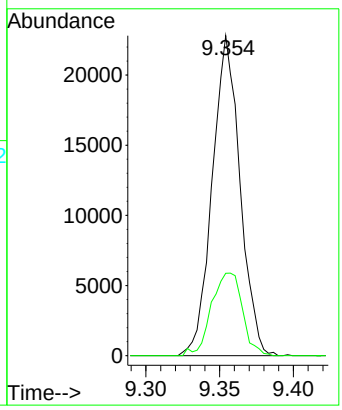




#58
Ethyl Benzene
Concen: 0.605 ppbv
RT: 9.354 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL042376.D
Acq: 18 Apr 2025 01:30

Tgt Ion: 91 Resp: 2988

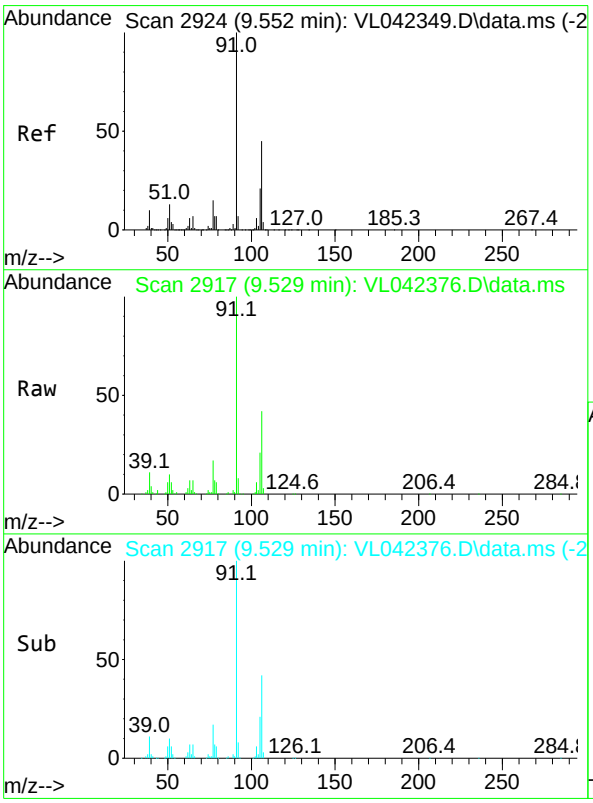
Ion	Ratio	Lower	Upper
91	100		
106	25.8	23.0	34.4



Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025DL

Manual Integrations
APPROVED

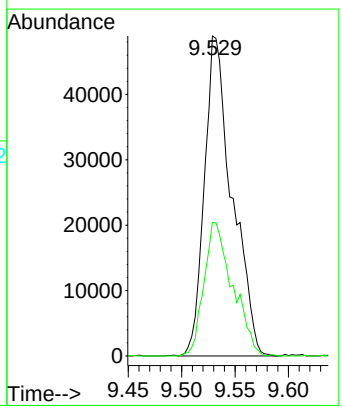
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

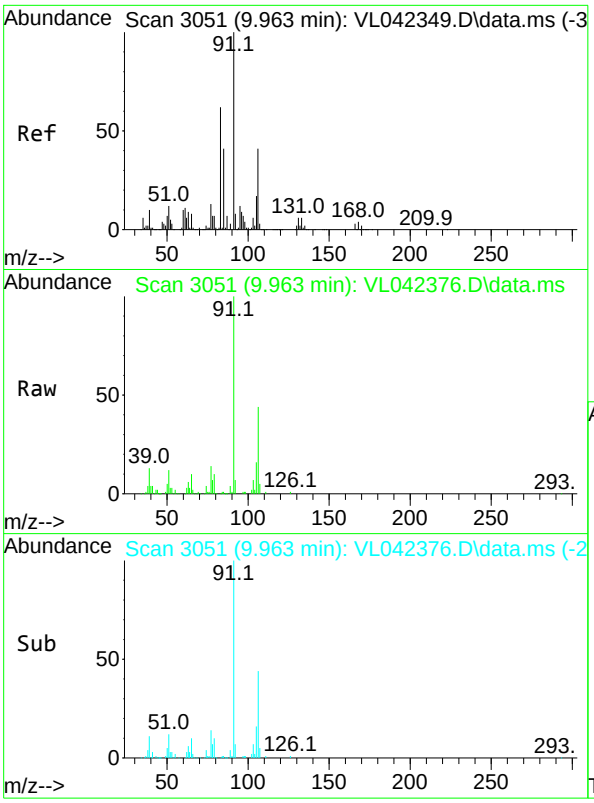


#59
m/p-Xylene
Concen: 2.217 ppbv
RT: 9.529 min Scan# 2917
Delta R.T. -0.023 min
Lab File: VL042376.D
Acq: 18 Apr 2025 01:30

Tgt Ion: 91 Resp: 88263

Ion	Ratio	Lower	Upper
91	100		
106	43.4	35.4	53.2

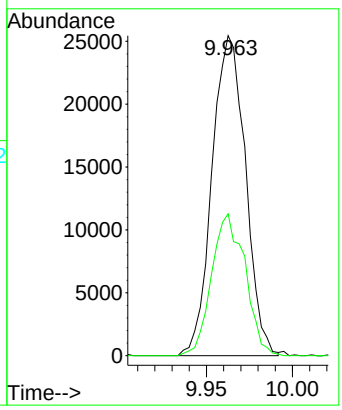




#60
o-Xylene
Concen: 0.859 ppbv
RT: 9.963 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042376.D
Acq: 18 Apr 2025 01:30

Tgt Ion: 91 Resp: 3443

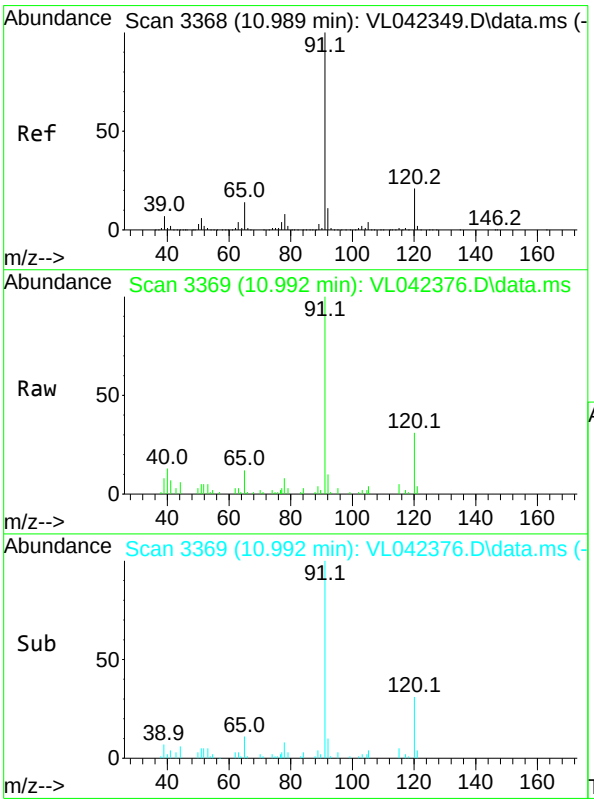
Ion	Ratio	Lower	Upper
91	100		
106	44.3	21.1	63.4



Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025DL

Manual Integrations
APPROVED

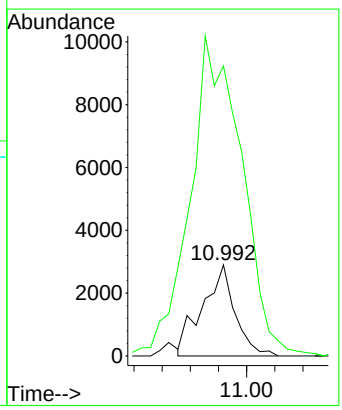
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

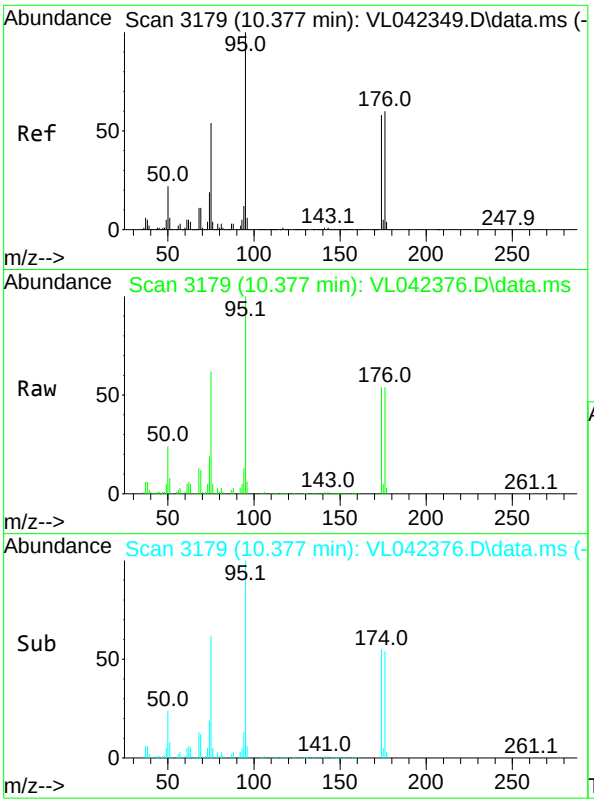


#64
n-propylbenzene
Concen: 0.158 ppbv
RT: 10.992 min Scan# 3369
Delta R.T. 0.003 min
Lab File: VL042376.D
Acq: 18 Apr 2025 01:30

Tgt Ion:120 Resp: 2336

Ion	Ratio	Lower	Upper
120	100		
91	559.2	392.4	588.6

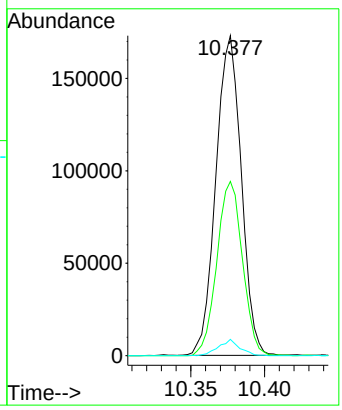




#68
1-Bromo-4-Fluorobenzene
Concen: 10.106 ppbv
RT: 10.377 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042376.D
Acq: 18 Apr 2025 01:30

Tgt Ion: 95 Resp: 20716

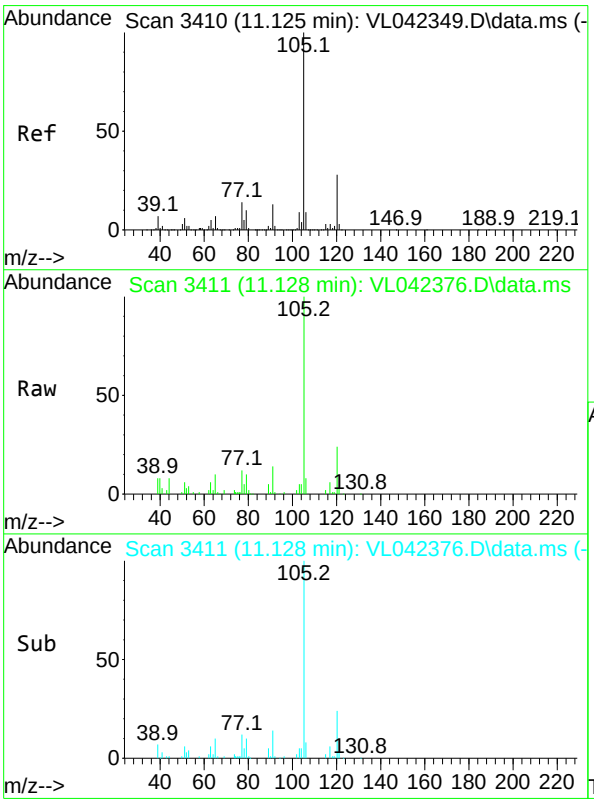
Ion	Ratio	Lower	Upper
95	100		
174	54.9	48.5	72.7
175	4.3	3.7	5.5



Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025DL

Manual Integrations
APPROVED

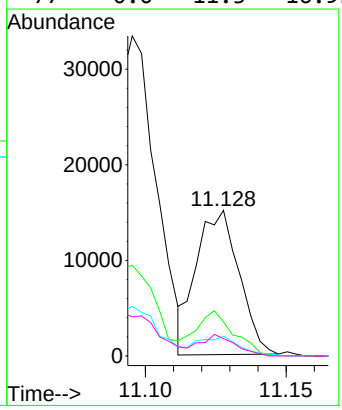
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

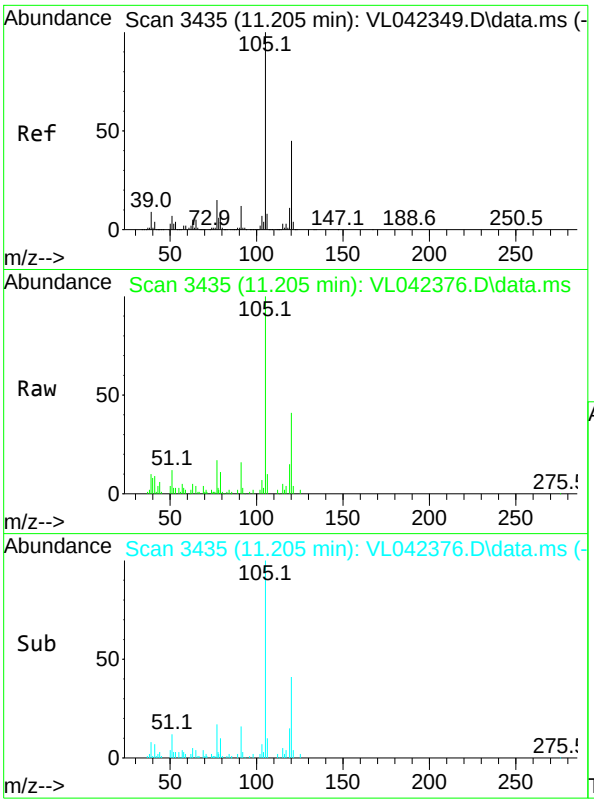


#72
4-Ethyltoluene
Concen: 0.325 ppbv
RT: 11.128 min Scan# 3411
Delta R.T. 0.003 min
Lab File: VL042376.D
Acq: 18 Apr 2025 01:30

Tgt Ion:105 Resp: 15927

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#

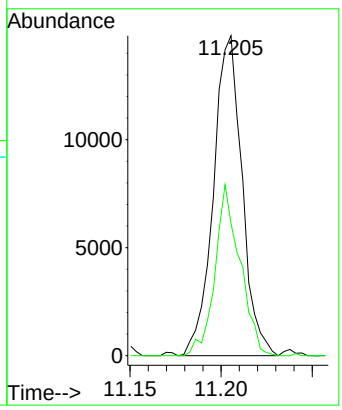




#73
1,3,5-Trimethylbenzene
Concen: 0.375 ppbv
RT: 11.205 min Scan# 34
Delta R.T. -0.000 min
Lab File: VL042376.D
Acq: 18 Apr 2025 01:30

Tgt Ion:105 Resp: 1622

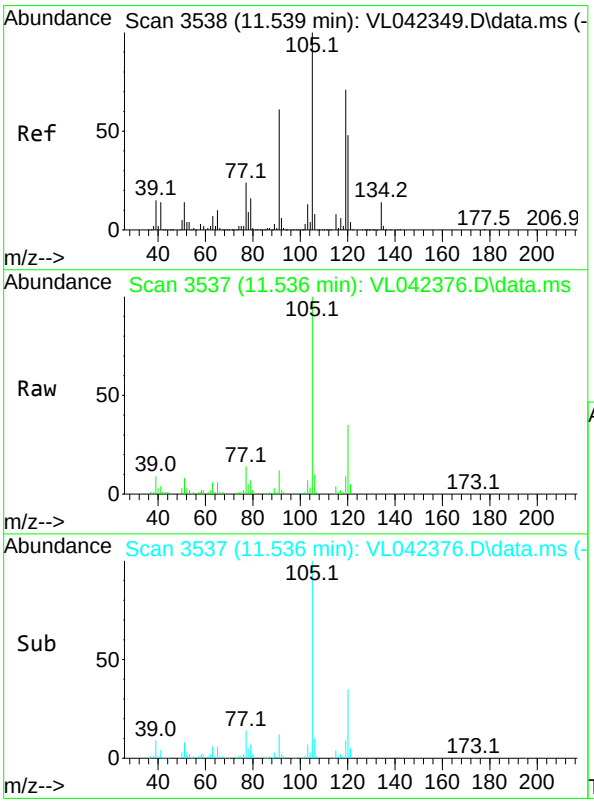
Ion	Ratio	Lower	Upper
105	100		
120	41.4	35.6	53.4



Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025DL

Manual Integrations
APPROVED

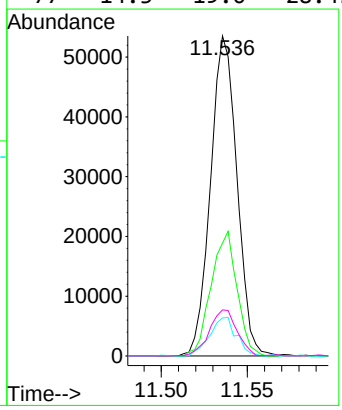
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#74
1,2,4-Trimethylbenzene
Concen: 1.132 ppbv
RT: 11.536 min Scan# 3537
Delta R.T. -0.003 min
Lab File: VL042376.D
Acq: 18 Apr 2025 01:30

Tgt Ion:105 Resp: 57208

Ion	Ratio	Lower	Upper
105	100		
120	35.2	38.1	57.1#
91	11.9	48.8	73.2#
77	14.3	19.0	28.4#



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

Report of Analysis

Client:	Woodard & Curran	Date Collected:	04/01/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	IA-DUP-3-03312025DL2	SDG No.:	Q1726
Lab Sample ID:	Q1726-01DL2	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
VL042387.D	40		04/18/25 12:41	VL041825

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	8.40	41.5	UD	41.5	98.9	ug/m3
64-17-5	Ethanol	220	415	DQ	24.1	37.7	ug/m3
74-87-3	Chloromethane	3.90	8.05	UD	8.05	41.3	ug/m3
75-01-4	Vinyl Chloride	0.56	1.43	UD	1.43	3.07	ug/m3
74-83-9	Bromomethane	5.60	21.7	UD	21.7	77.7	ug/m3
75-00-3	Chloroethane	6.80	17.9	UD	17.9	52.8	ug/m3
109-99-9	Tetrahydrofuran	5.20	15.3	UDQ	15.3	59.0	ug/m3
75-69-4	Trichlorofluoromethane	6.40	36.0	UD	36.0	112	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	6.40	49.0	UD	49.0	153	ug/m3
76-14-2	Dichlorotetrafluoroethane	3.50	24.5	UD	24.5	140	ug/m3
593-60-2	Bromoethene	4.80	21.0	UD	21.0	87.4	ug/m3
75-65-0	tert-Butyl alcohol	7.60	23.0	UD	23.0	60.6	ug/m3
142-82-5	Heptane	6.80	27.9	JDQ	18.0	82.0	ug/m3
67-63-0	Isopropyl Alcohol	29.3	72.0	D	6.88	49.2	ug/m3
75-35-4	1,1-Dichloroethene	5.60	22.2	UD	22.2	79.3	ug/m3
67-64-1	Acetone	490	1160	D	22.8	47.5	ug/m3
75-15-0	Carbon Disulfide	6.40	19.9	UD	19.9	62.3	ug/m3
1634-04-4	Methyl tert-Butyl Ether	4.80	17.3	UD	17.3	72.1	ug/m3
75-09-2	Methylene Chloride	7.60	26.4	UD	26.4	69.5	ug/m3
156-60-5	trans-1,2-Dichloroethene	7.60	30.1	UD	30.1	79.3	ug/m3
75-34-3	1,1-Dichloroethane	5.20	21.1	UD	21.1	81.0	ug/m3
110-82-7	Cyclohexane	8.80	30.3	UD	30.3	68.8	ug/m3
78-93-3	2-Butanone	4.80	14.2	UD	14.2	59.0	ug/m3
56-23-5	Carbon Tetrachloride	0.44	2.77	UD	2.77	7.55	ug/m3
156-59-2	cis-1,2-Dichloroethene	3.60	14.3	UD	14.3	79.3	ug/m3
67-66-3	Chloroform	3.30	16.1	UD	16.1	97.7	ug/m3
71-55-6	1,1,1-Trichloroethane	0.38	2.07	UD	2.07	6.55	ug/m3
540-84-1	2,2,4-Trimethylpentane	12.8	59.8	JD	18.7	93.4	ug/m3
71-43-2	Benzene	3.50	11.2	UD	11.2	63.9	ug/m3
107-06-2	1,2-Dichloroethane	3.60	14.6	UD	14.6	81.0	ug/m3
79-01-6	Trichloroethene	0.68	3.65	UD	3.65	6.45	ug/m3
78-87-5	1,2-Dichloropropane	4.40	20.3	UD	20.3	92.4	ug/m3
75-27-4	Bromodichloromethane	3.10	20.8	UD	20.8	134	ug/m3
108-10-1	4-Methyl-2-Pentanone	3.70	15.2	UD	15.2	82.0	ug/m3
108-88-3	Toluene	37.8	142	D	16.6	75.4	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:	04/01/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	IA-DUP-3-03312025DL2	SDG No.:	Q1726
Lab Sample ID:	Q1726-01DL2	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
VL042387.D	40		04/18/25 12:41	VL041825

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	2.40	10.9	UD	10.9	90.8	ug/m3
10061-01-5	cis-1,3-Dichloropropene	2.60	11.8	UD	11.8	90.8	ug/m3
79-00-5	1,1,2-Trichloroethane	2.80	15.3	UD	15.3	109	ug/m3
124-48-1	Dibromochloromethane	2.60	22.1	UD	22.1	170	ug/m3
106-93-4	1,2-Dibromoethane	2.90	22.3	UD	22.3	30.7	ug/m3
127-18-4	Tetrachloroethene	0.60	4.07	UD	4.07	8.14	ug/m3
108-90-7	Chlorobenzene	3.00	13.8	UD	13.8	92.1	ug/m3
100-41-4	Ethyl Benzene	8.00	34.8	JD	20.9	86.9	ug/m3
179601-23-1	m/p-Xylene	28.6	124	JD	36.5	174	ug/m3
95-47-6	o-Xylene	11.4	49.5	JD	20.9	86.9	ug/m3
100-42-5	Styrene	4.40	18.7	UD	18.7	85.2	ug/m3
75-25-2	Bromoform	2.30	23.8	UD	23.8	207	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	0.44	3.02	UD	3.02	8.24	ug/m3
95-49-8	2-Chlorotoluene	4.40	22.8	UD	22.8	104	ug/m3
108-67-8	1,3,5-Trimethylbenzene	5.20	25.6	JD	21.6	98.3	ug/m3
95-63-6	1,2,4-Trimethylbenzene	14.4	70.8	JD	15.2	98.3	ug/m3
541-73-1	1,3-Dichlorobenzene	3.20	19.2	UD	19.2	120	ug/m3
106-46-7	1,4-Dichlorobenzene	2.10	12.6	UD	12.6	120	ug/m3
95-50-1	1,2-Dichlorobenzene	3.00	18.0	UD	18.0	120	ug/m3
120-82-1	1,2,4-Trichlorobenzene	3.40	25.2	UD	25.2	148	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	3.40	36.3	UD	36.3	213	ug/m3
106-99-0	1,3-Butadiene	5.20	11.5	UD	11.5	44.3	ug/m3
91-20-3	Naphthalene	3.00	15.7	UD	15.7	21.0	ug/m3
622-96-8	4-Ethyltoluene	4.80	23.6	UD	23.6	98.3	ug/m3
110-54-3	Hexane	4.40	15.5	UD	15.5	70.5	ug/m3
107-05-1	Allyl Chloride	6.00	18.8	UD	18.8	62.6	ug/m3
123-91-1	1,4-Dioxane	8.40	30.3	UD	30.3	72.1	ug/m3
80-62-6	Methyl Methacrylate	3.40	13.9	UDQ	13.9	81.9	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	133000		2.784			
540-36-3	1,4-Difluorobenzene	411000		3.952			
3114-55-4	Chlorobenzene-d5	358000		8.875			

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

Report of Analysis

Client:	Woodard & Curran	Date Collected:	04/01/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	IA-DUP-3-03312025DL2	SDG No.:	Q1726
Lab Sample ID:	Q1726-01DL2	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
VL042387.D	40		04/18/25 12:41	VL041825

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\VL041825\
Data File : VL042387.D
Acq On : 18 Apr 2025 12:41
Operator : SY/MD
Sample : Q1726-01DL2 40X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 18 22:57:54 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-DUP-3-03312025DL2

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.784	49	133179	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.952	114	411086	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.875	117	357783	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.370	95	291643	9.920	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 99.200%				
Target Compounds							Qvalue
10) Heptane	4.968	43	4902m	0.171	ppbv		
13) Ethanol	1.719	45	9034	5.570	ppbv		89
15) Acetone	1.832	43	267863	12.286	ppbv		99
19) Isopropyl Alcohol	1.884	45	8878	0.733	ppbv	#	1
44) 2,2,4-Trimethylpentane	4.629	57	24464	0.319	ppbv	#	86
53) Toluene	6.923	91	50250	0.944	ppbv		99
58) Ethyl Benzene	9.348	91	14141m	0.199	ppbv		
59) m/p-Xylene	9.526	91	40839	0.715	ppbv		99
60) o-Xylene	9.959	91	16348	0.284	ppbv		94
72) 4-Ethyltoluene	11.121	105	7156	0.102	ppbv	#	56
73) 1,3,5-Trimethylbenzene	11.199	105	8160m	0.131	ppbv		
74) 1,2,4-Trimethylbenzene	11.532	105	26096	0.360	ppbv	#	64

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

Quantitation Report (QT Reviewed)

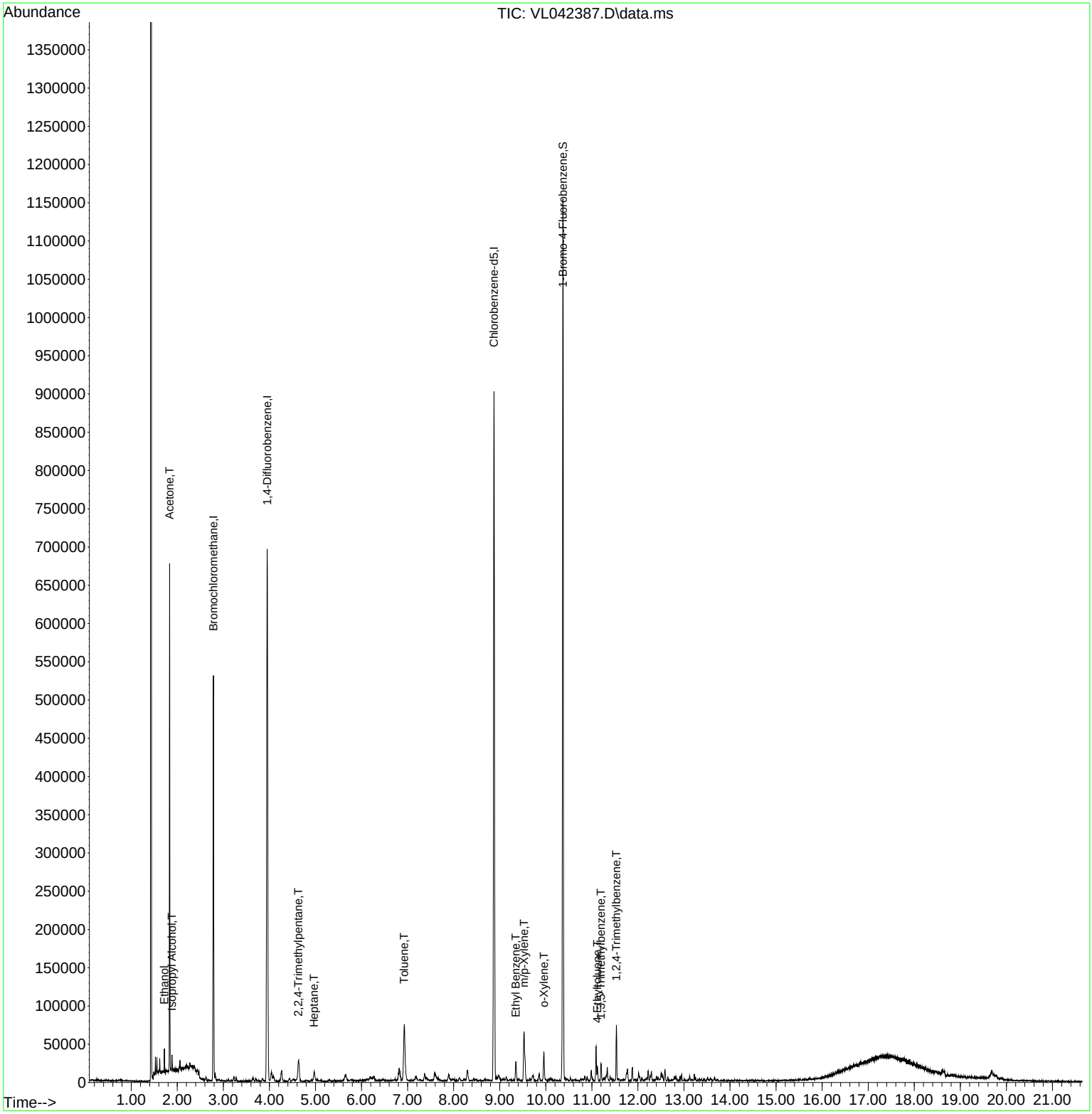
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041825\
Data File : VL042387.D
Acq On : 18 Apr 2025 12:41
Operator : SY/MD
Sample : Q1726-01DL2 40X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

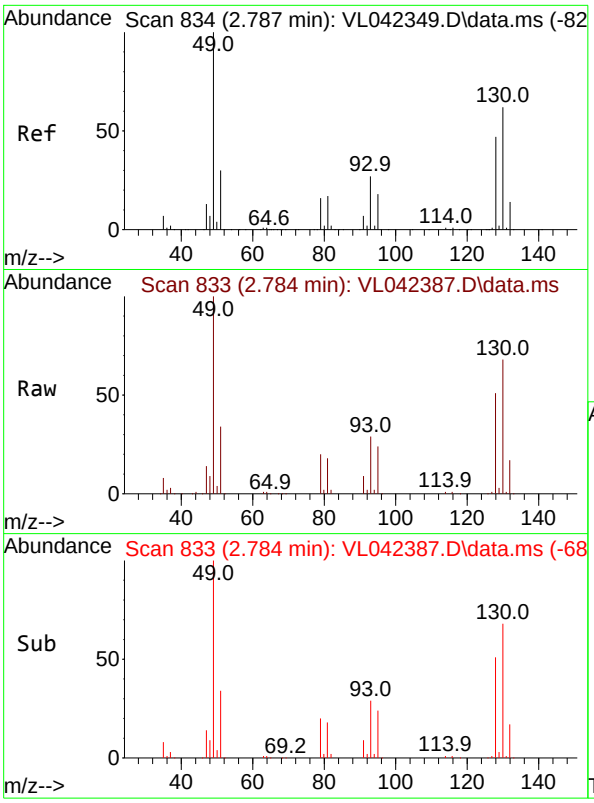
Quant Time: Apr 18 22:57:54 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025DL2

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025

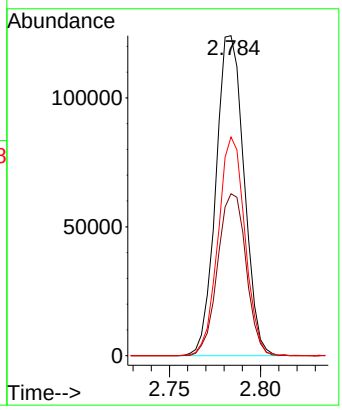




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 8
Delta R.T. -0.003 min
Lab File: VL042387.D
Acq: 18 Apr 2025 12:41

Tgt Ion: 49 Resp: 13317

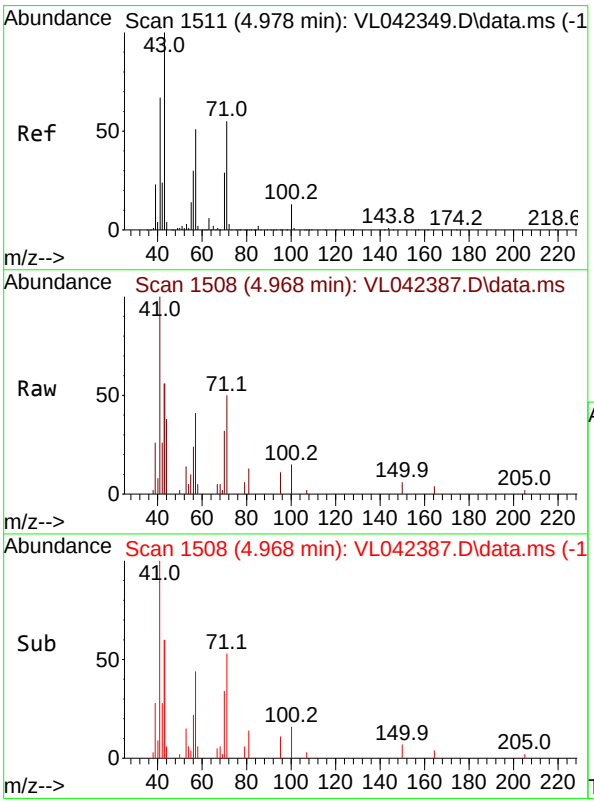
Ion	Ratio	Lower	Upper
49	100		
128	51.2	22.8	68.4
130	65.3	29.3	88.0



Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025DL2

Manual Integrations
APPROVED

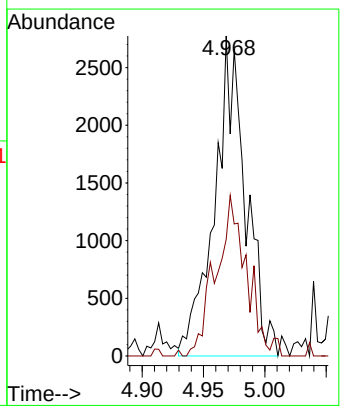
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025

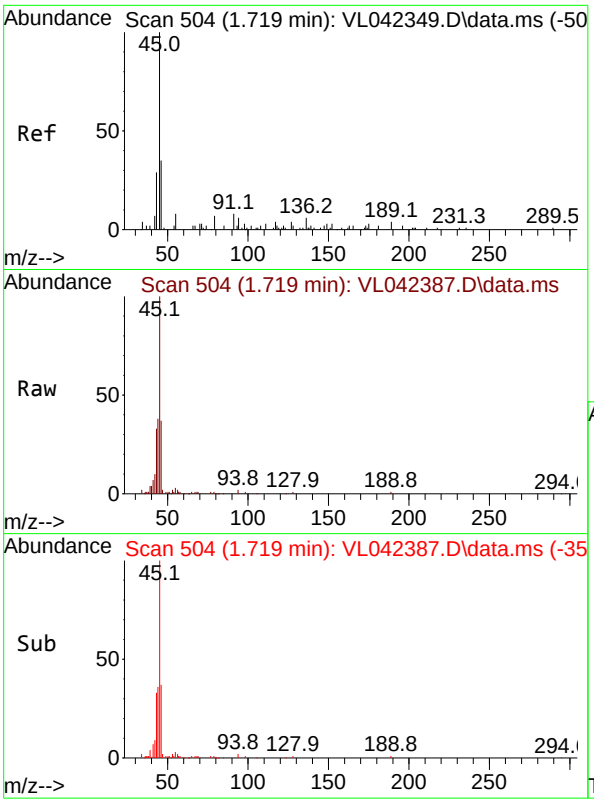


#10
Heptane
Concen: 0.171 ppbv m
RT: 4.968 min Scan# 1508
Delta R.T. -0.010 min
Lab File: VL042387.D
Acq: 18 Apr 2025 12:41

Tgt Ion: 43 Resp: 4902

Ion	Ratio	Lower	Upper
43	100		
57	49.8	39.9	59.9

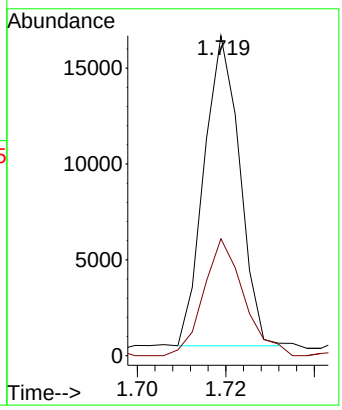




#13
Ethanol
Concen: 5.570 ppbv
RT: 1.719 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL042387.D
Acq: 18 Apr 2025 12:41

Tgt Ion: 45 Resp: 903

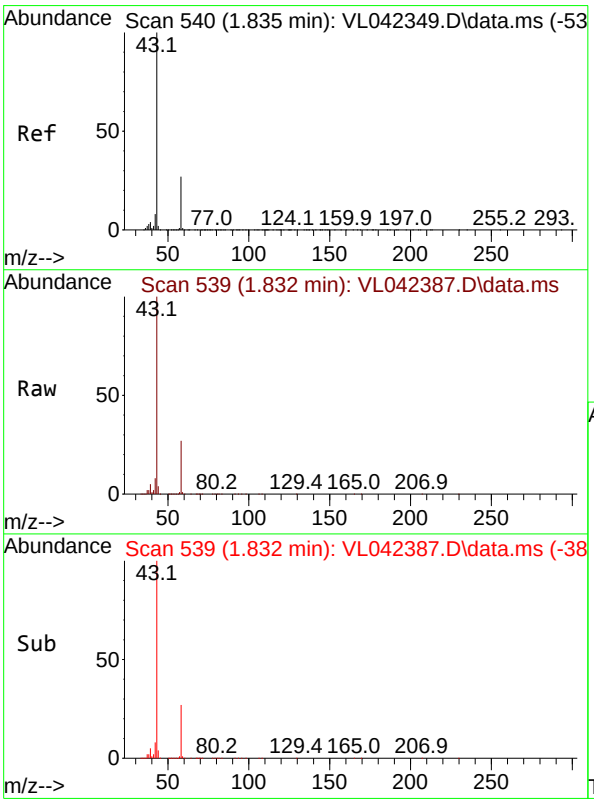
Ion	Ratio	Lower	Upper
45	100		
46	46.7	21.9	87.7



Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025DL2

Manual Integrations
APPROVED

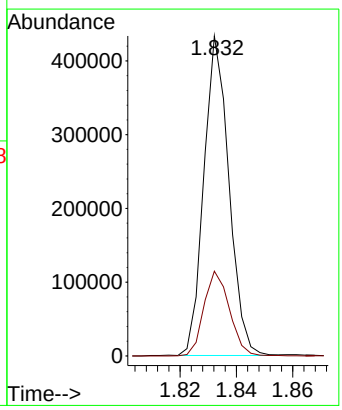
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025

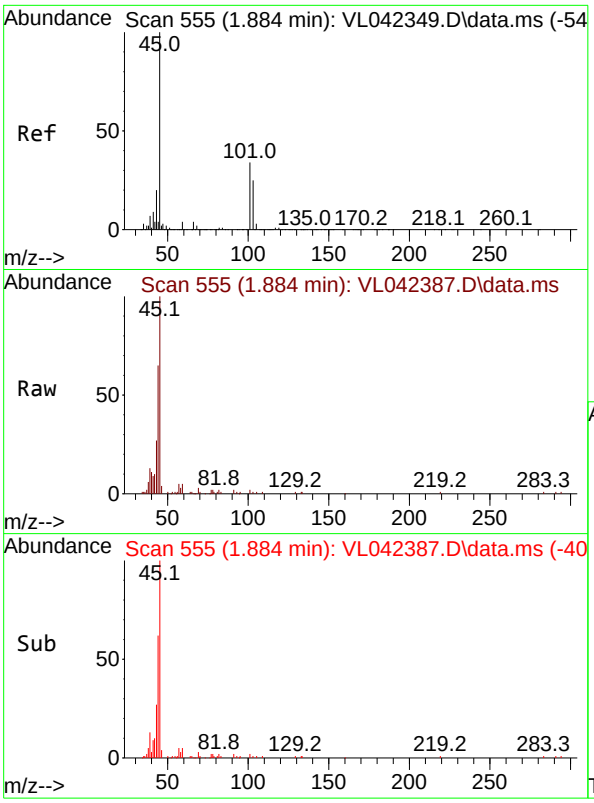


#15
Acetone
Concen: 12.286 ppbv
RT: 1.832 min Scan# 539
Delta R.T. -0.003 min
Lab File: VL042387.D
Acq: 18 Apr 2025 12:41

Tgt Ion: 43 Resp: 267863

Ion	Ratio	Lower	Upper
43	100		
58	27.3	22.4	33.6

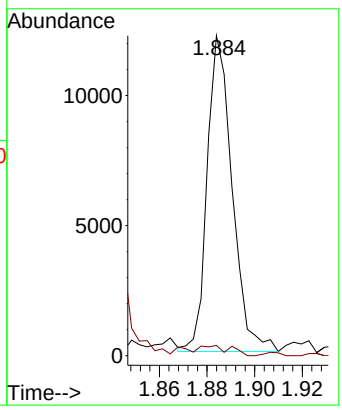




#19
Isopropyl Alcohol
Concen: 0.733 ppbv
RT: 1.884 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL042387.D
Acq: 18 Apr 2025 12:41

Tgt Ion: 45 Resp: 887

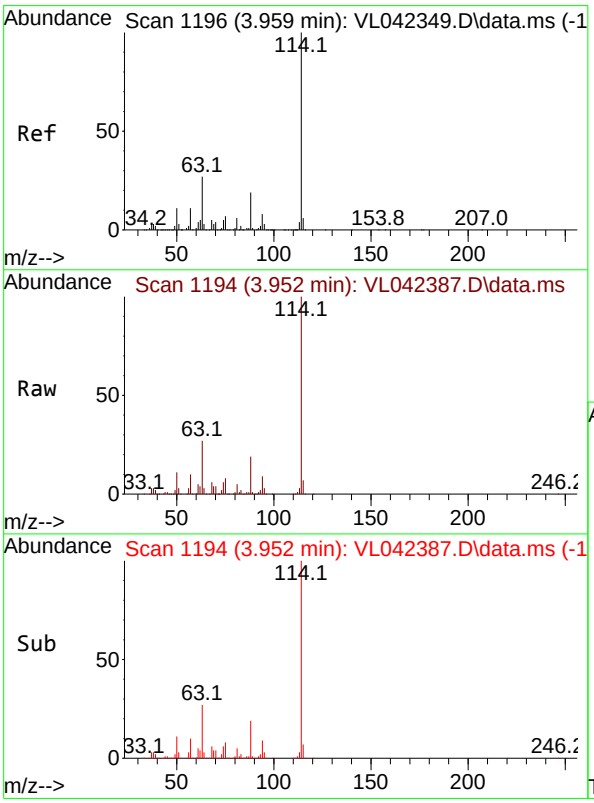
Ion	Ratio	Lower	Upper
45	100		
58	823.5	34.5	51.7



Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025DL2

Manual Integrations
APPROVED

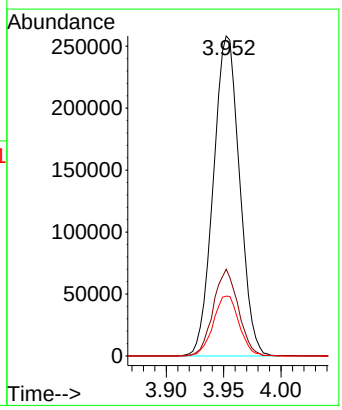
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025

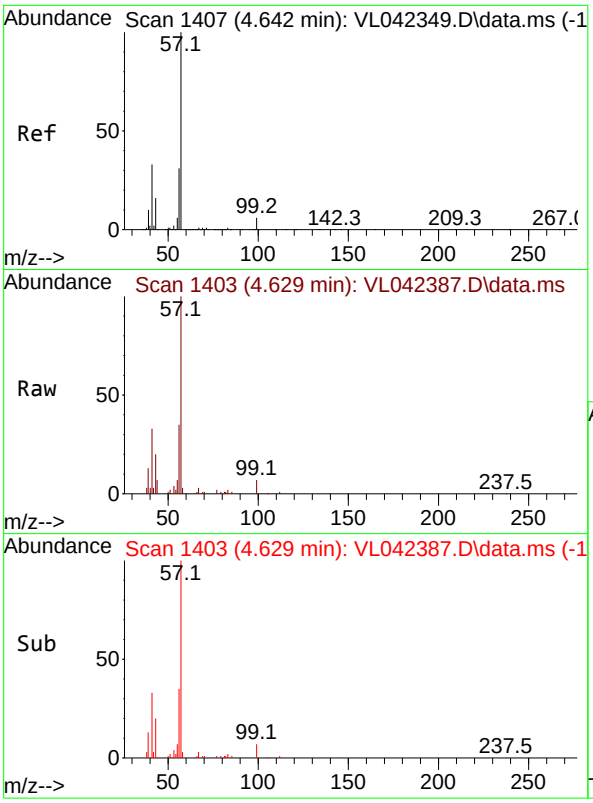


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.952 min Scan# 1194
Delta R.T. -0.006 min
Lab File: VL042387.D
Acq: 18 Apr 2025 12:41

Tgt Ion:114 Resp: 411086

Ion	Ratio	Lower	Upper
114	100		
63	25.9	21.8	32.6
88	18.5	15.5	23.3





#44
2,2,4-Trimethylpentane
Concen: 0.319 ppbv
RT: 4.629 min Scan# 14
Delta R.T. -0.013 min
Lab File: VL042387.D
Acq: 18 Apr 2025 12:41

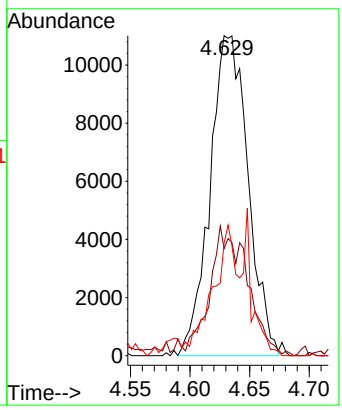
Tgt Ion: 57 Resp: 2446

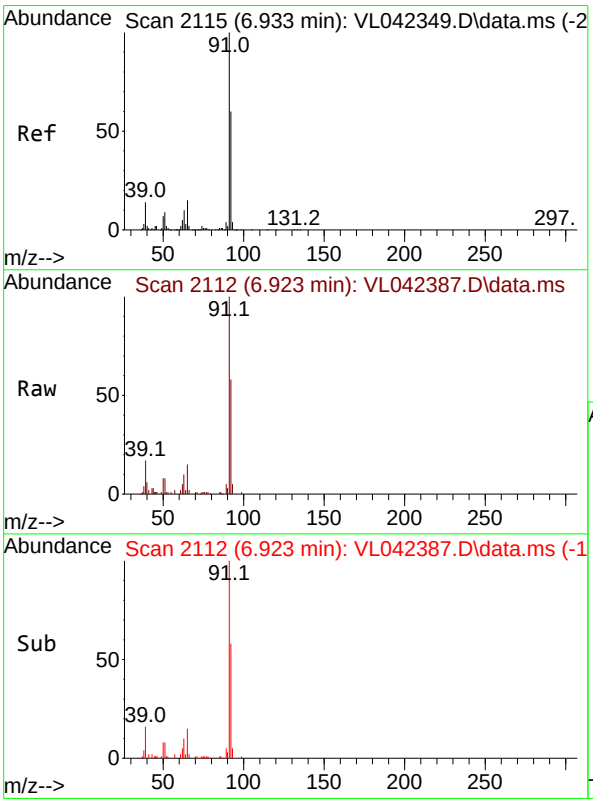
Ion	Ratio	Lower	Upper
57	100		
41	42.3	27.2	40.8#
56	40.0	25.7	38.5#

Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025DL2

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025

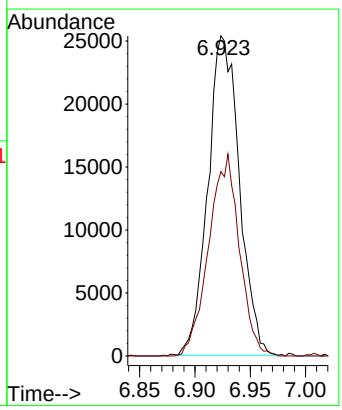


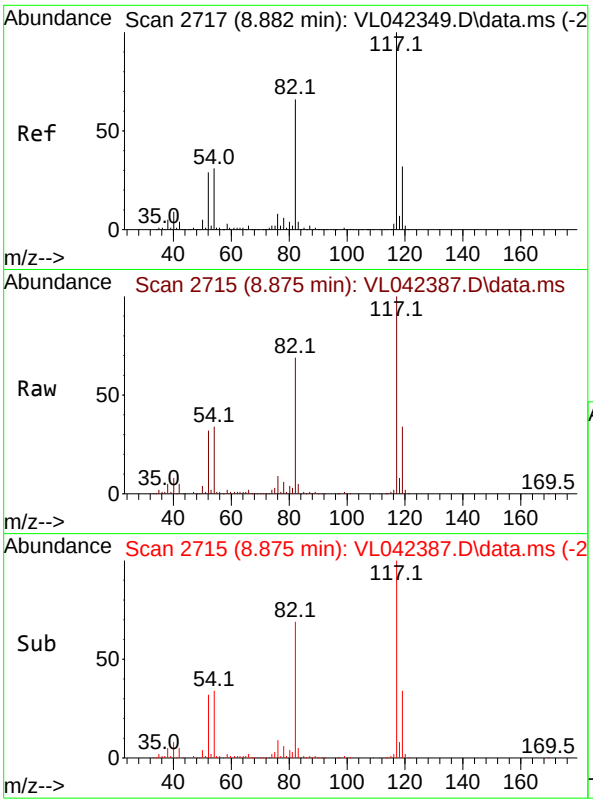


#53
Toluene
Concen: 0.944 ppbv
RT: 6.923 min Scan# 2112
Delta R.T. -0.010 min
Lab File: VL042387.D
Acq: 18 Apr 2025 12:41

Tgt Ion: 91 Resp: 50250

Ion	Ratio	Lower	Upper
91	100		
92	61.3	48.2	72.4

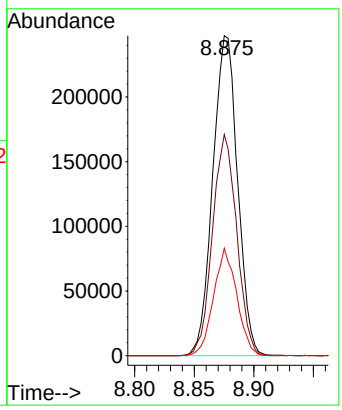




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 2
Delta R.T. -0.006 min
Lab File: VL042387.D
Acq: 18 Apr 2025 12:41

Tgt Ion:117 Resp: 35778

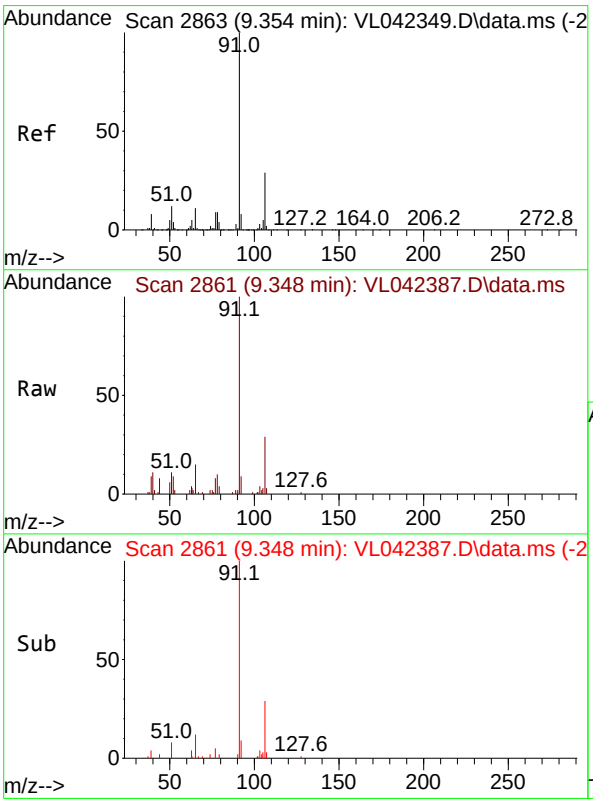
Ion	Ratio	Lower	Upper
117	100		
82	67.6	57.8	86.6
119	31.5	25.2	37.8



Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025DL2

Manual Integrations
APPROVED

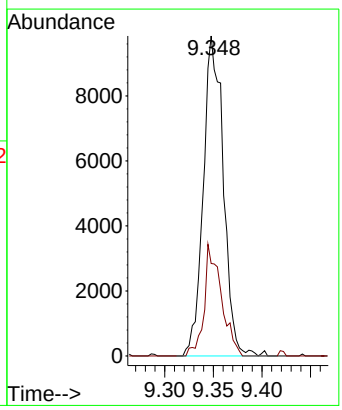
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025

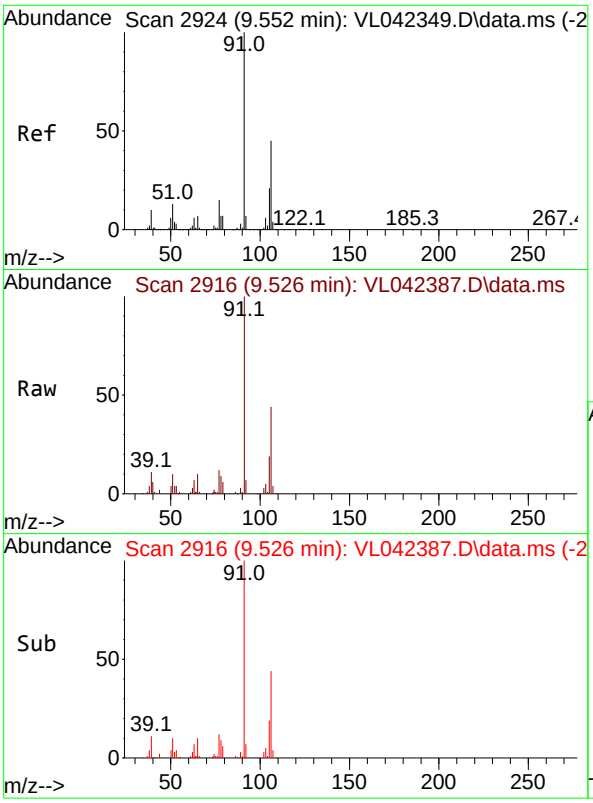


#58
Ethyl Benzene
Concen: 0.199 ppbv m
RT: 9.348 min Scan# 2861
Delta R.T. -0.006 min
Lab File: VL042387.D
Acq: 18 Apr 2025 12:41

Tgt Ion: 91 Resp: 14141

Ion	Ratio	Lower	Upper
91	100		
106	28.9	23.0	34.4





#59
m/p-Xylene
Concen: 0.715 ppbv
RT: 9.526 min Scan# 2
Delta R.T. -0.026 min
Lab File: VL042387.D
Acq: 18 Apr 2025 12:41

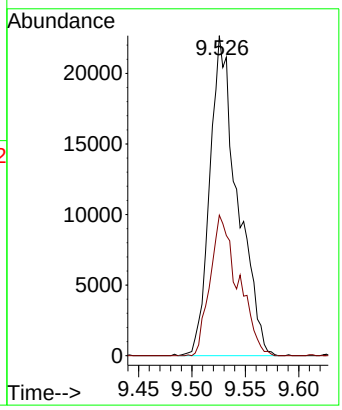
Tgt Ion: 91 Resp: 4083

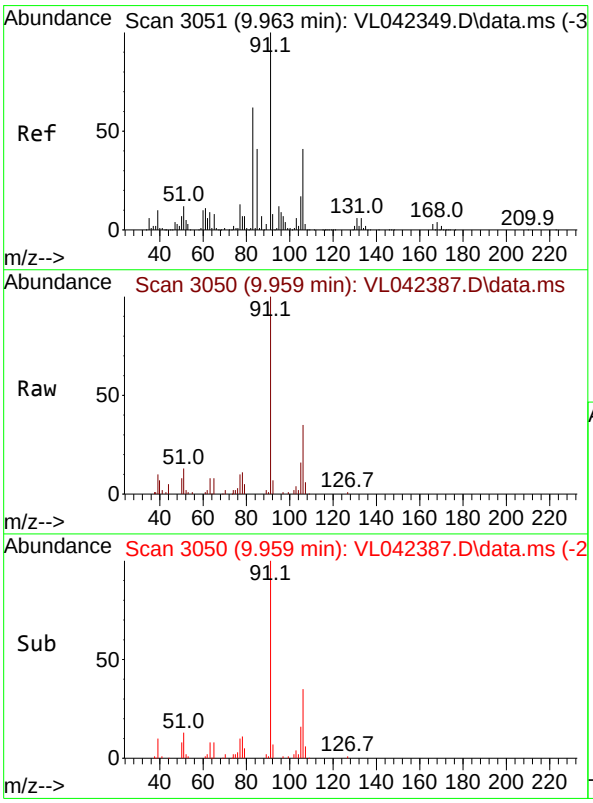
Ion	Ratio	Lower	Upper
91	100		
106	44.7	35.4	53.2

Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025DL2

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025

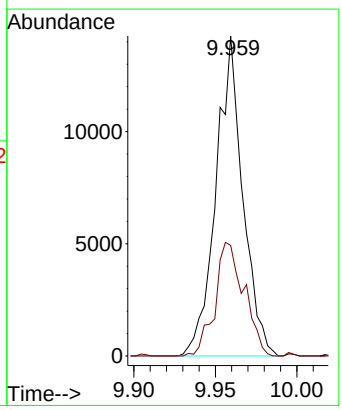


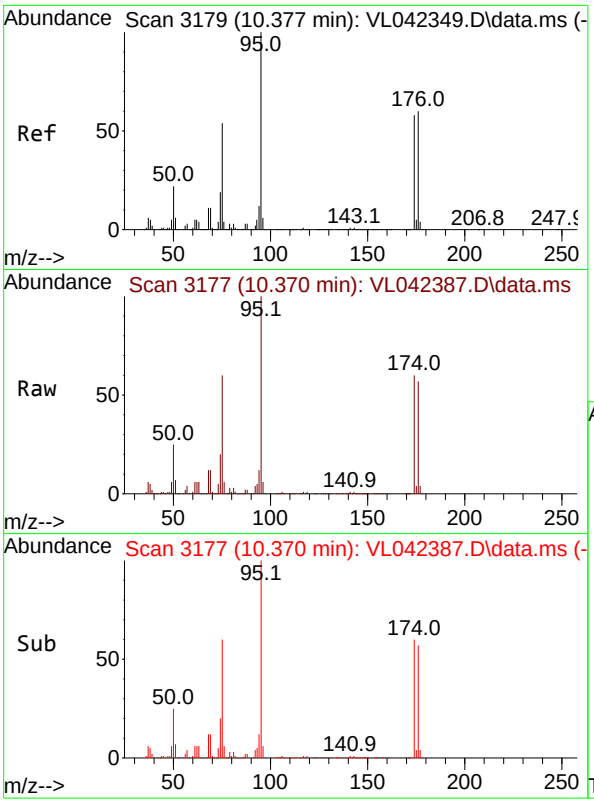


#60
o-Xylene
Concen: 0.284 ppbv
RT: 9.959 min Scan# 3050
Delta R.T. -0.003 min
Lab File: VL042387.D
Acq: 18 Apr 2025 12:41

Tgt Ion: 91 Resp: 16348

Ion	Ratio	Lower	Upper
91	100		
106	38.7	21.1	63.4

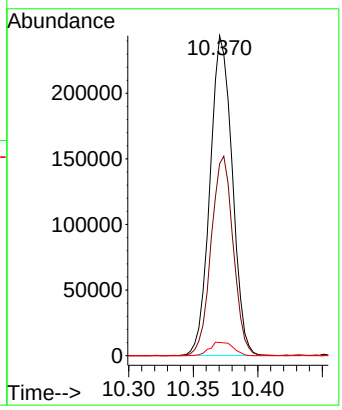




#68
1-Bromo-4-Fluorobenzene
Concen: 9.920 ppbv
RT: 10.370 min Scan# 3
Delta R.T. -0.006 min
Lab File: VL042387.D
Acq: 18 Apr 2025 12:41

Tgt Ion: 95 Resp: 29164

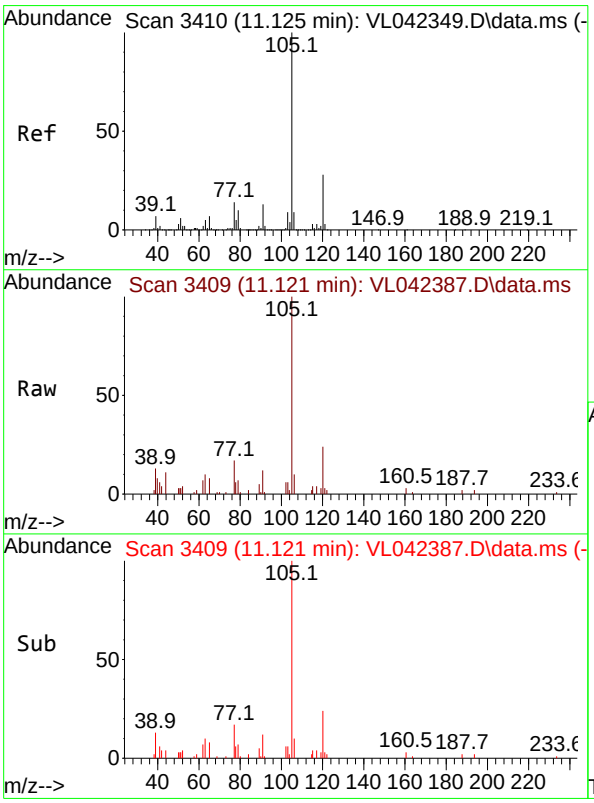
Ion	Ratio	Lower	Upper
95	100		
174	62.1	48.5	72.7
175	4.5	3.7	5.5



Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025DL2

Manual Integrations
APPROVED

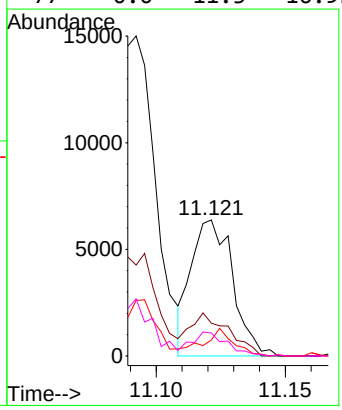
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025

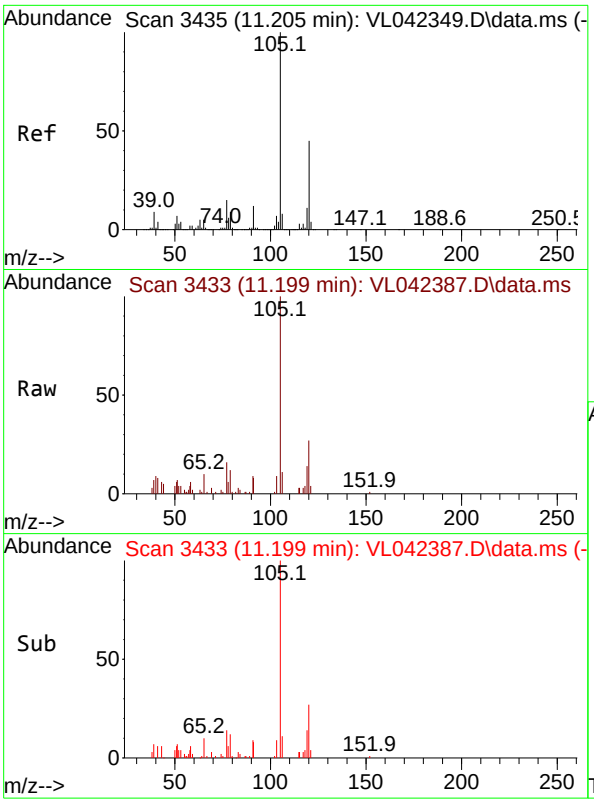


#72
4-Ethyltoluene
Concen: 0.102 ppbv
RT: 11.121 min Scan# 3409
Delta R.T. -0.003 min
Lab File: VL042387.D
Acq: 18 Apr 2025 12:41

Tgt Ion:105 Resp: 7156

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#

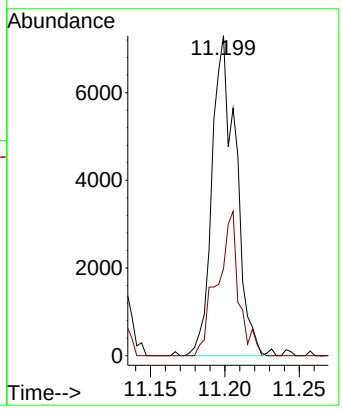




#73
1,3,5-Trimethylbenzene
Concen: 0.131 ppbv m
RT: 11.199 min Scan# 34
Delta R.T. -0.006 min
Lab File: VL042387.D
Acq: 18 Apr 2025 12:41

Tgt Ion:105 Resp: 816

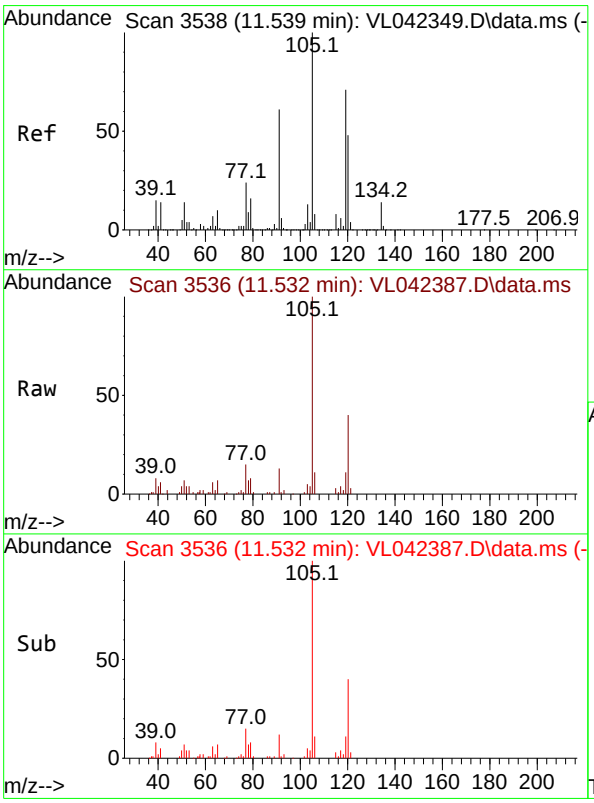
Ion	Ratio	Lower	Upper
105	100		
120	27.1	35.6	53.4#



Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025DL2

Manual Integrations
APPROVED

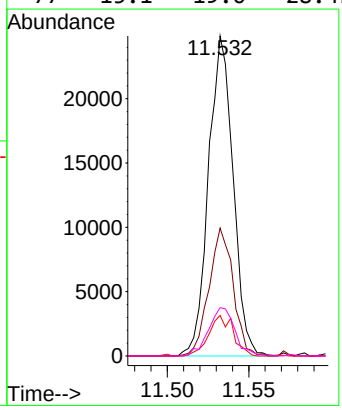
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025



#74
1,2,4-Trimethylbenzene
Concen: 0.360 ppbv
RT: 11.532 min Scan# 3536
Delta R.T. -0.006 min
Lab File: VL042387.D
Acq: 18 Apr 2025 12:41

Tgt Ion:105 Resp: 26096

Ion	Ratio	Lower	Upper
105	100		
120	40.0	38.1	57.1
91	12.6	48.8	73.2#
77	15.1	19.0	28.4#



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

Report of Analysis

Client:	Woodard & Curran	Date Collected:	04/01/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	IA-B2-6-03312025	SDG No.:	Q1726
Lab Sample ID:	Q1726-02	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
VL042367.D	1		04/17/25 20:38	VL041725

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.49	2.42	J	1.04	2.47	ug/m3
64-17-5	Ethanol	240	452	EQ	0.60	0.94	ug/m3
74-87-3	Chloromethane	4.90	10.1		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	0.45	1.33	J	0.38	1.47	ug/m3
75-69-4	Trichlorofluoromethane	0.23	1.29	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
593-60-2	Bromoethene	0.12	0.52	U	0.52	2.19	ug/m3
75-65-0	tert-Butyl alcohol	1.10	3.33		0.58	1.52	ug/m3
142-82-5	Heptane	6.60	27.1		0.45	2.05	ug/m3
67-63-0	Isopropyl Alcohol	24.7	60.7	E	0.17	1.23	ug/m3
75-35-4	1,1-Dichloroethene	0.14	0.56	U	0.56	1.98	ug/m3
67-64-1	Acetone	130	309	E	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	7.00	24.3		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	1.90	5.60		0.35	1.47	ug/m3
56-23-5	Carbon Tetrachloride	0.10	0.63		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	0.37	1.81	J	0.39	2.44	ug/m3
71-55-6	1,1,1-Trichloroethane	0.070	0.38		0.050	0.16	ug/m3
540-84-1	2,2,4-Trimethylpentane	14.5	67.7		0.47	2.34	ug/m3
71-43-2	Benzene	1.70	5.43		0.29	1.60	ug/m3
107-06-2	1,2-Dichloroethane	0.17	0.69	J	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	39.7	150	E	0.41	1.88	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:	04/01/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	IA-B2-6-03312025	SDG No.:	Q1726
Lab Sample ID:	Q1726-02	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
VL042367.D	1		04/17/25 20:38	VL041725

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
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
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	0.11	0.75		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	8.60	37.4		0.52	2.17	ug/m3
179601-23-1	m/p-Xylene	29.5	128		0.91	4.34	ug/m3
95-47-6	o-Xylene	11.6	50.4		0.52	2.17	ug/m3
100-42-5	Styrene	0.32	1.36	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	0.89	4.61		0.57	2.59	ug/m3
108-67-8	1,3,5-Trimethylbenzene	5.30	26.1		0.54	2.46	ug/m3
95-63-6	1,2,4-Trimethylbenzene	14.9	73.3		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	0.22	1.32	J	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	1.70	8.91		0.42	0.52	ug/m3
622-96-8	4-Ethyltoluene	4.40	21.6		0.59	2.46	ug/m3
110-54-3	Hexane	7.00	24.7		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	118000		2.787			
540-36-3	1,4-Difluorobenzene	335000		3.959			
3114-55-4	Chlorobenzene-d5	297000		8.878			
TENTITIVE IDENTIFIED COMPOUNDS							

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

Report of Analysis

Client:	Woodard & Curran	Date Collected:	04/01/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	IA-B2-6-03312025	SDG No.:	Q1726
Lab Sample ID:	Q1726-02	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
VL042367.D	1		04/17/25 20:38	VL041725

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
75-45-6	Chlorodifluoromethane	0.22		J		1.48	ppbv
115-07-1	Propene	2.60		J		1.49	ppbv
000106-97-8	Butane	12.1		J		1.62	ppbv
000107-83-5	Pentane, 2-methyl-	5.90		J		2.47	ppbv
000591-76-4	Hexane, 2-methyl-	8.20		J		4.05	ppbv
000589-34-4	Hexane, 3-methyl-	9.10		J		4.27	ppbv
000108-87-2	Cyclohexane, methyl-	7.40		J		5.66	ppbv
000565-75-3	Pentane, 2,3,4-trimethyl-	9.90		J		6.82	ppbv
000589-81-1	Heptane, 3-methyl-	7.10		J		7.60	ppbv
003522-94-9	Hexane, 2,2,5-trimethyl-	5.20		J		7.89	ppbv
000111-65-9	Octane	7.50		J		8.30	ppbv
98-82-8	Isopropylbenzene	0.74		J		10.5	ppbv
103-65-1	n-propylbenzene	2.60		J		11.0	ppbv
135-98-8	sec-Butylbenzene	0.18		J		11.8	ppbv
99-87-6	p-Isopropyltoluene	0.32		J		11.9	ppbv
104-51-8	n-Butylbenzene	0.94		J		12.3	ppbv
000874-41-9	Benzene, 1-ethyl-2,4-dimethyl-	5.70		J		12.6	ppbv
91-57-6	Naphthalene,2-methyl-	0.77		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 : VL042367.D
Acq On : 17 Apr 2025 20:38
Operator : SY/MD
Sample : Q1726-02
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 18 02:43:05 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-B2-6-03312025

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	117602	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.959	114	335422	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.878	117	296955	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.374	95	247280	10.134	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 101.300%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.499	85	10227	0.492	ppbv		93
3) Chlorodifluoromethane	1.476	51	4416m	0.223	ppbv		
4) Chloromethane	1.531	50	40465	4.921	ppbv		97
9) Propene	1.486	41	23304m	2.586	ppbv		
10) Heptane	4.978	43	167433	6.614	ppbv		98
11) Trichlorofluoromethane	1.874	101	4482	0.227	ppbv		97
13) Ethanol	1.722	45	349355	243.933	ppbv		76
15) Acetone	1.832	43	2494566	129.576	ppbv	#	62
17) tert-Butyl alcohol	2.042	59	25593	1.073	ppbv		98
19) Isopropyl Alcohol	1.884	45	264094	24.694	ppbv	#	33
20) Methylene Chloride	2.062	84	53039	7.035	ppbv		95
26) Hexane	2.826	57	134610	7.007	ppbv	#	35
29) Chloroform	2.848	83	9936m	0.366	ppbv		
30) Cyclohexane	3.858	84	26517m	1.708	ppbv		
32) 1,1,1-Trichloroethane	3.369	97	2187m	0.072	ppbv		
34) 2-Butanone	2.557	43	50219	1.893	ppbv		97
35) Carbon Tetrachloride	3.761	117	3127m	0.103	ppbv		
36) Benzene	3.654	78	61349	1.696	ppbv	#	96
37) 1,2-Dichloroethane	3.217	62	3633	0.167	ppbv	#	88
41) Tetrahydrofuran	3.062	42	6945	0.449	ppbv	#	76
44) 2,2,4-Trimethylpentane	4.638	57	905076	14.485	ppbv		94
52) Tetrachloroethene	8.224	164	1554m	0.111	ppbv		
53) Toluene	6.933	91	1722699	39.680	ppbv		100
58) Ethyl Benzene	9.354	91	505495	8.592	ppbv		100
59) m/p-Xylene	9.529	91	1399337	29.524	ppbv		99
60) o-Xylene	9.963	91	552991	11.586	ppbv		99
61) Styrene	9.869	104	7256	0.319	ppbv		95
62) Isopropylbenzene	10.539	105	52108	0.744	ppbv		99
64) n-propylbenzene	10.989	120	45701	2.595	ppbv		95
67) sec-Butylbenzene	11.769	105	15818	0.177	ppbv	#	76
69) p-Isopropyltoluene	11.924	119	24554	0.315	ppbv		96
70) n-Butylbenzene	12.286	91	76213	0.940	ppbv	#	38
71) 2-Chlorotoluene	10.901	91	48685	0.886	ppbv		98
72) 4-Ethyltoluene	11.124	105	257296	4.410	ppbv	#	56
73) 1,3,5-Trimethylbenzene	11.202	105	275258	5.343	ppbv		97
74) 1,2,4-Trimethylbenzene	11.536	105	895635	14.886	ppbv	#	65
76) 1,4-Dichlorobenzene	11.671	146	6955	0.221	ppbv	#	69
79) Naphthalene	13.513	128	122970	1.709	ppbv		99
80) Naphthalene,2-methyl-	14.458	142	31538	0.769	ppbv		93

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

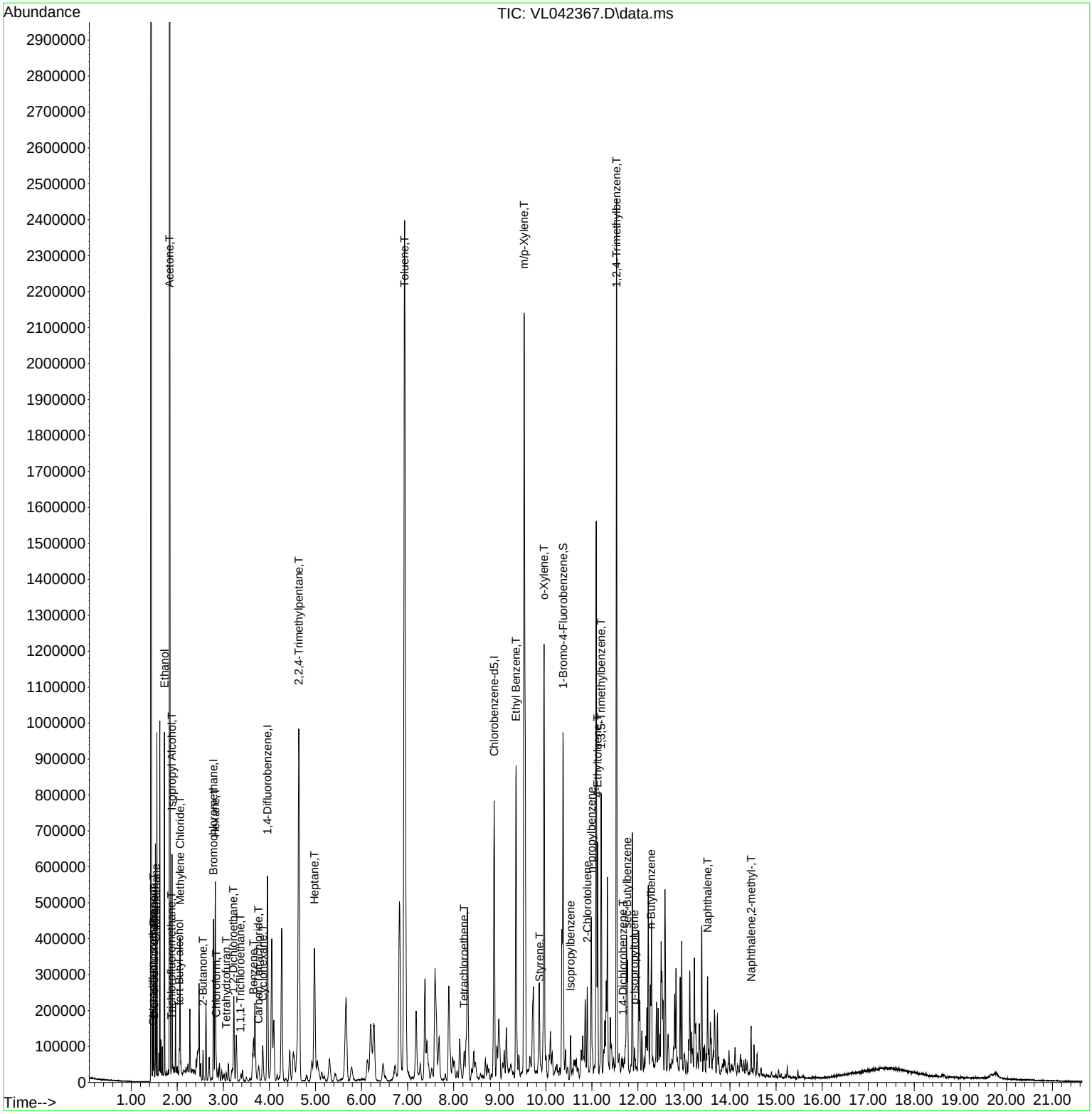
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042367.D
Acq On : 17 Apr 2025 20:38
Operator : SY/MD
Sample : Q1726-02
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

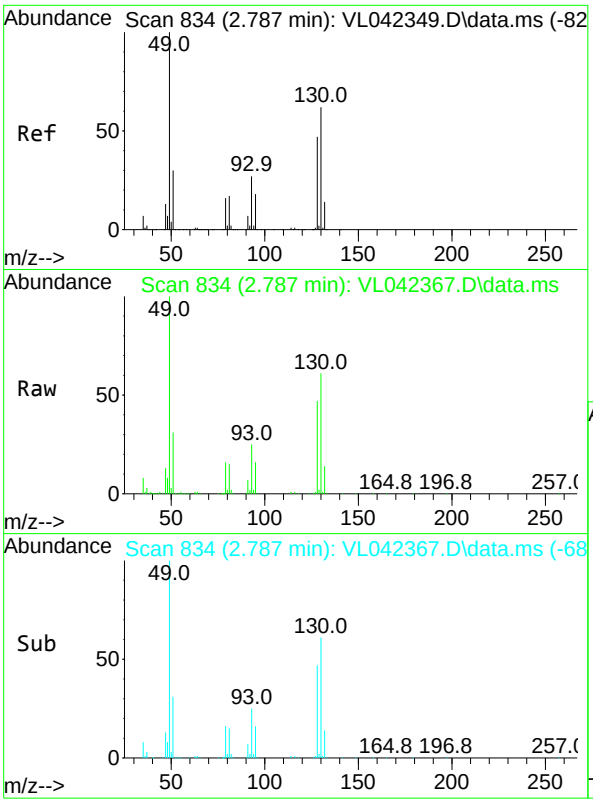
Quant Time: Apr 18 02:43:05 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025

Manual Integrations APPROVED

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

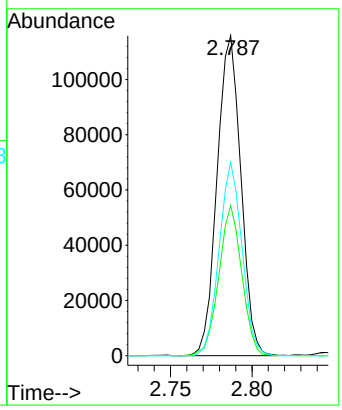




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL042367.D
Acq: 17 Apr 2025 20:38

Tgt Ion: 49 Resp: 11760

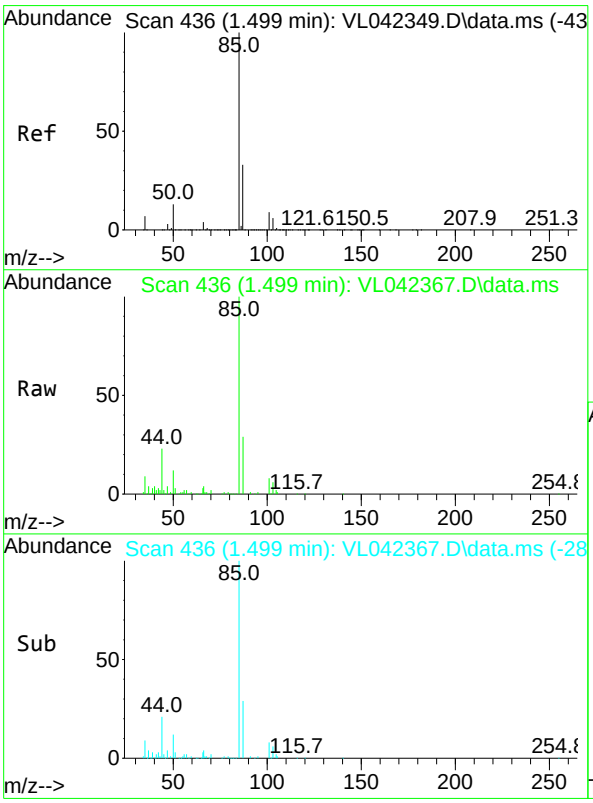
Ion	Ratio	Lower	Upper
49	100		
128	45.1	22.8	68.4
130	58.1	29.3	88.0



Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025

Manual Integrations
APPROVED

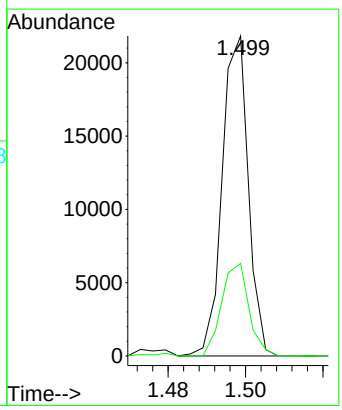
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

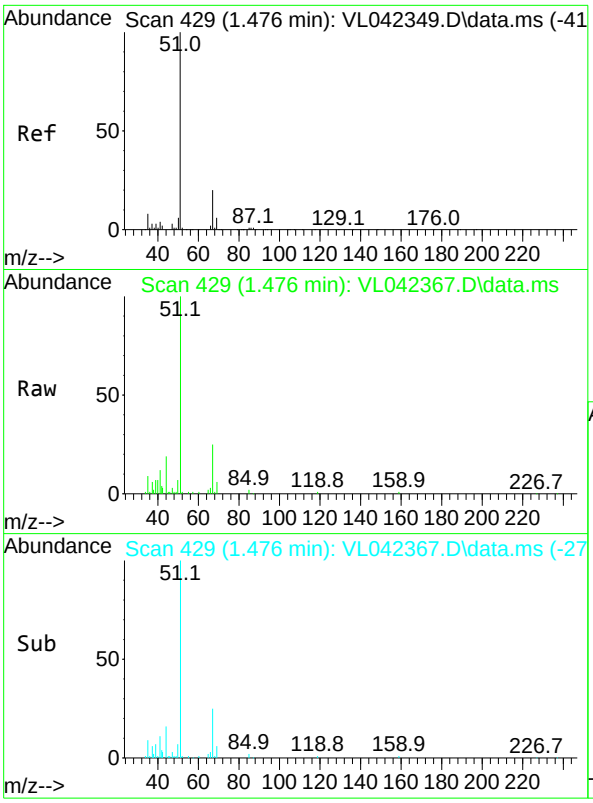


#2
Dichlorodifluoromethane
Concen: 0.492 ppbv
RT: 1.499 min Scan# 436
Delta R.T. -0.000 min
Lab File: VL042367.D
Acq: 17 Apr 2025 20:38

Tgt Ion: 85 Resp: 10227

Ion	Ratio	Lower	Upper
85	100		
87	29.0	26.6	39.8

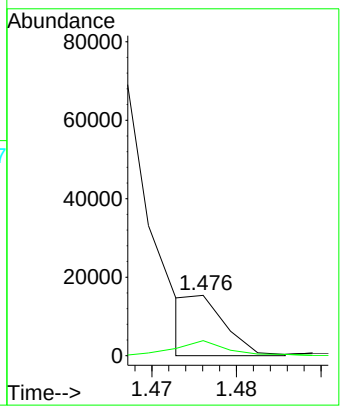




#3
Chlorodifluoromethane
Concen: 0.223 ppbv m
RT: 1.476 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042367.D
Acq: 17 Apr 2025 20:38

Tgt Ion: 51 Resp: 441

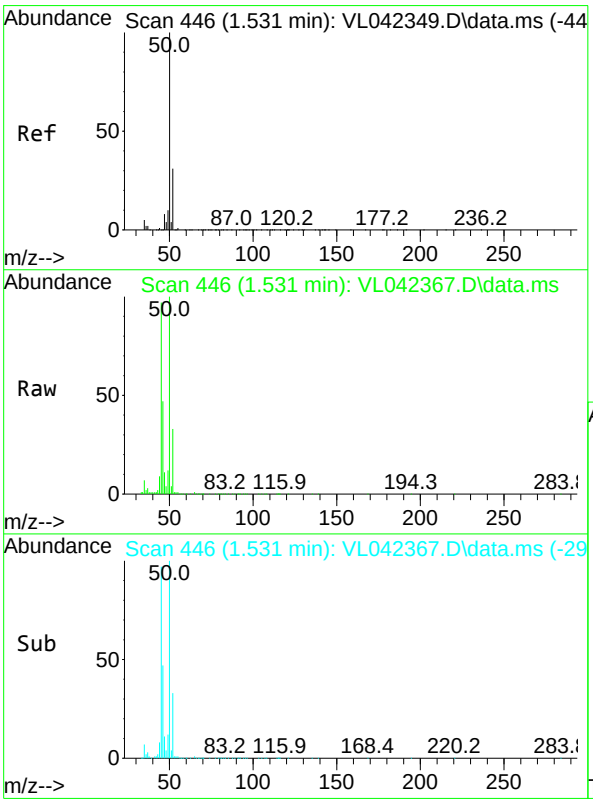
Ion	Ratio	Lower	Upper
51	100		
67	12.5	16.2	24.4



Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025

Manual Integrations
APPROVED

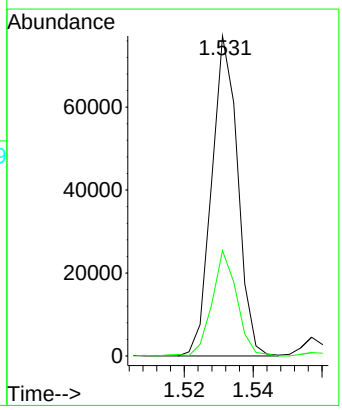
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

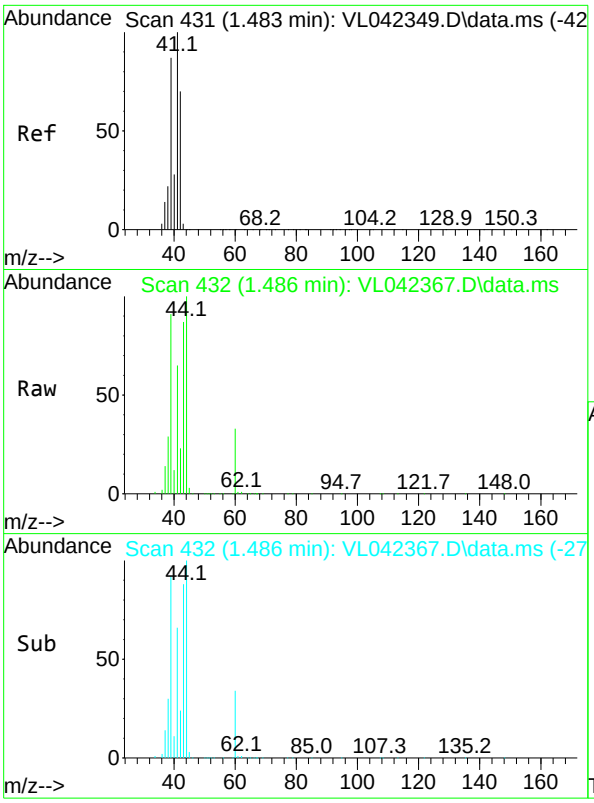


#4
Chloromethane
Concen: 4.921 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042367.D
Acq: 17 Apr 2025 20:38

Tgt Ion: 50 Resp: 40465

Ion	Ratio	Lower	Upper
50	100		
52	32.7	24.7	37.1

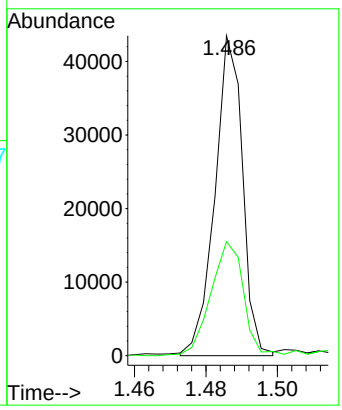




#9
Propene
Concen: 2.586 ppbv m
RT: 1.486 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL042367.D
Acq: 17 Apr 2025 20:38

Tgt Ion: 41 Resp: 2330

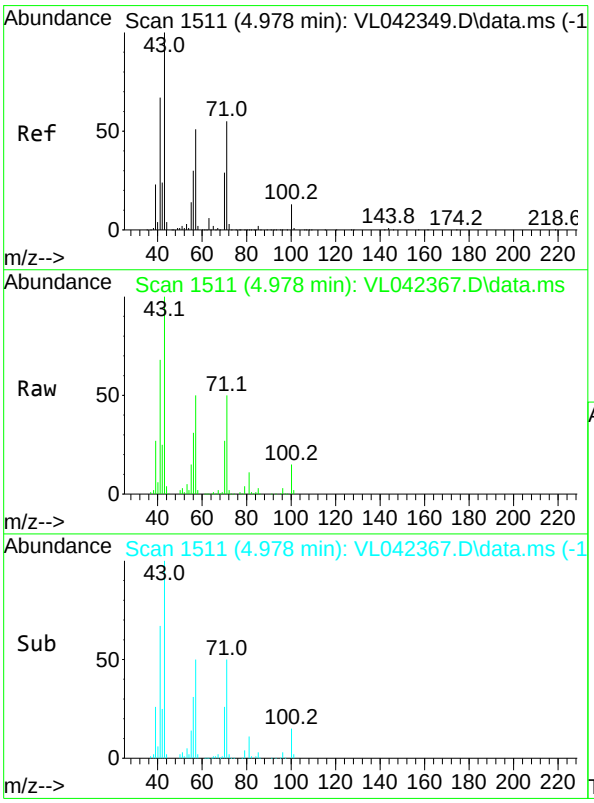
Ion	Ratio	Lower	Upper
41	100		
42	269.3	56.2	84.4



Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025

Manual Integrations
APPROVED

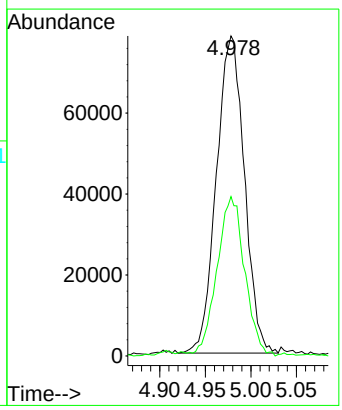
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

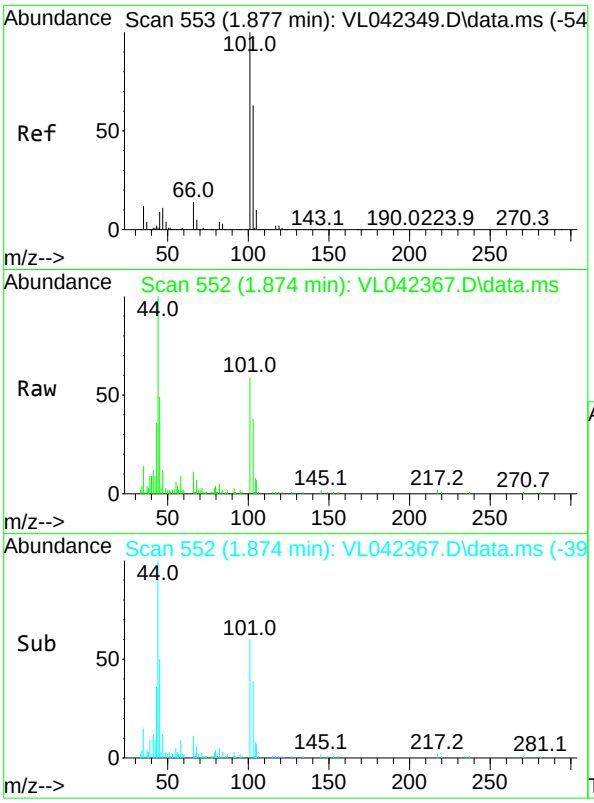


#10
Heptane
Concen: 6.614 ppbv
RT: 4.978 min Scan# 1511
Delta R.T. -0.000 min
Lab File: VL042367.D
Acq: 17 Apr 2025 20:38

Tgt Ion: 43 Resp: 167433

Ion	Ratio	Lower	Upper
43	100		
57	51.5	39.9	59.9

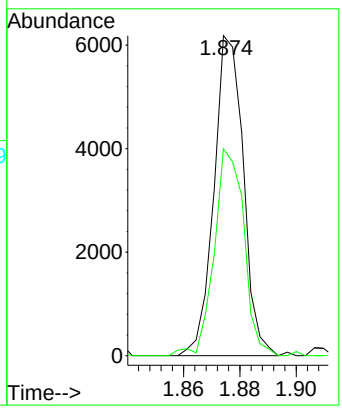




#11
Trichlorofluoromethane
Concen: 0.227 ppbv
RT: 1.874 min Scan# 5
Delta R.T. -0.003 min
Lab File: VL042367.D
Acq: 17 Apr 2025 20:38

Tgt Ion:101 Resp: 448

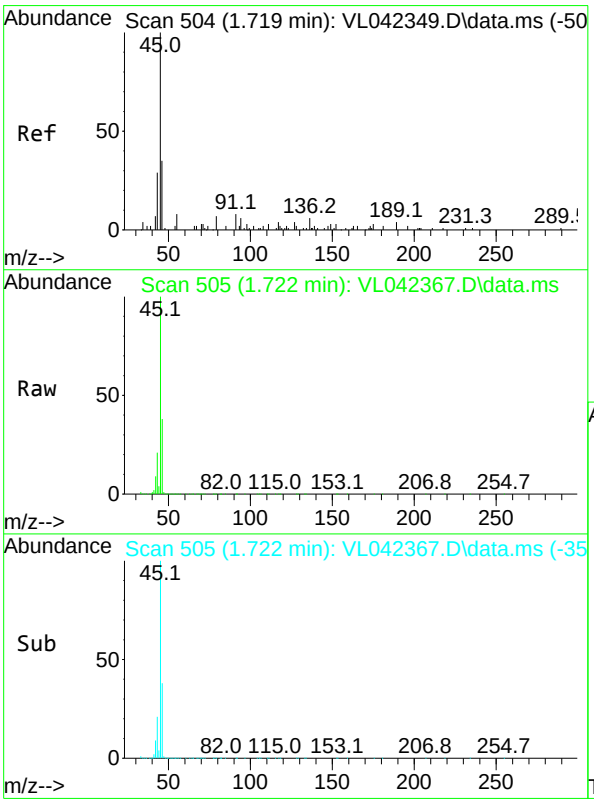
Ion	Ratio	Lower	Upper
101	100		
103	64.6	50.1	75.1



Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025

Manual Integrations
APPROVED

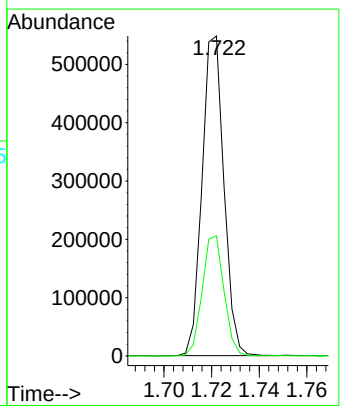
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

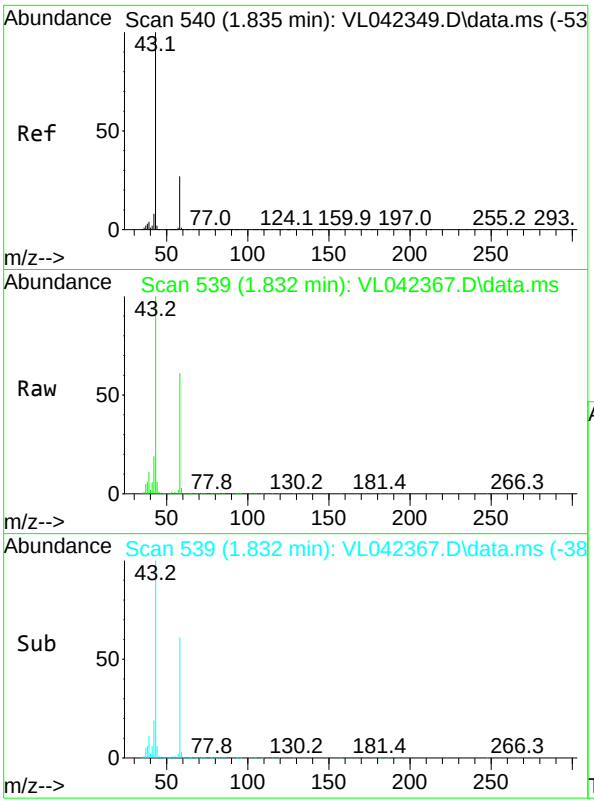


#13
Ethanol
Concen: 243.933 ppbv
RT: 1.722 min Scan# 505
Delta R.T. 0.003 min
Lab File: VL042367.D
Acq: 17 Apr 2025 20:38

Tgt Ion: 45 Resp: 349355

Ion	Ratio	Lower	Upper
45	100		
46	37.6	21.9	87.7

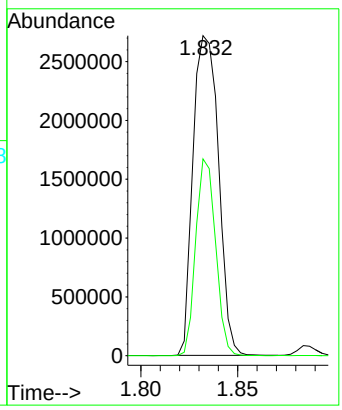




#15
Acetone
Concen: 129.576 ppbv
RT: 1.832 min Scan# 5
Delta R.T. -0.003 min
Lab File: VL042367.D
Acq: 17 Apr 2025 20:38

Tgt Ion: 43 Resp: 249456

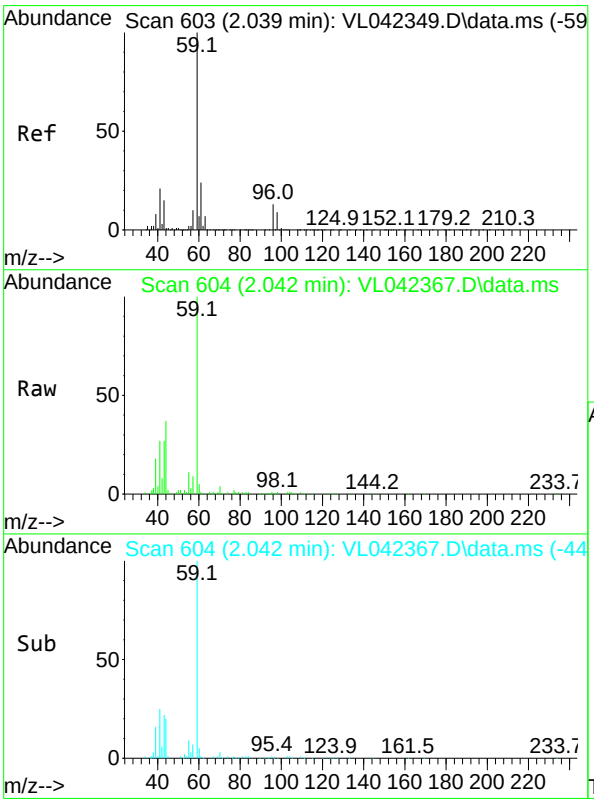
Ion	Ratio	Lower	Upper
43	100		
58	48.0	22.4	33.6



Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025

Manual Integrations
APPROVED

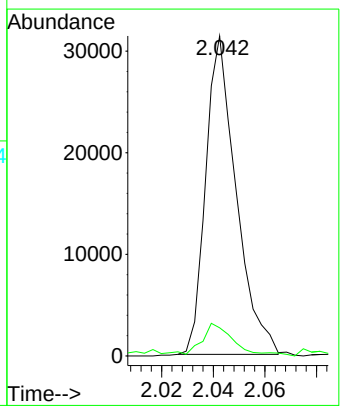
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

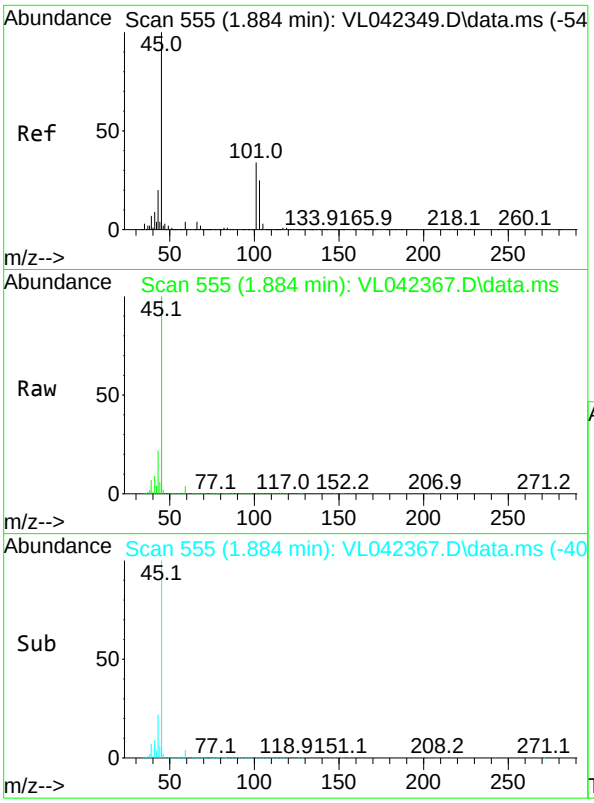


#17
tert-Butyl alcohol
Concen: 1.073 ppbv
RT: 2.042 min Scan# 604
Delta R.T. 0.003 min
Lab File: VL042367.D
Acq: 17 Apr 2025 20:38

Tgt Ion: 59 Resp: 25593

Ion	Ratio	Lower	Upper
59	100		
57	11.5	8.7	13.1





#19
Isopropyl Alcohol
Concen: 24.694 ppbv
RT: 1.884 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL042367.D
Acq: 17 Apr 2025 20:38

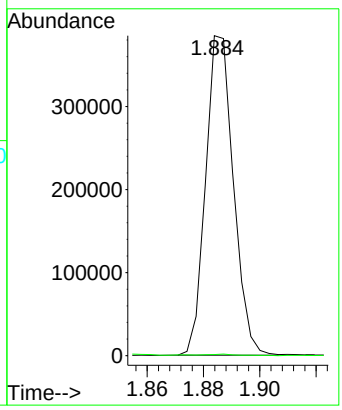
Tgt Ion: 45 Resp: 26409

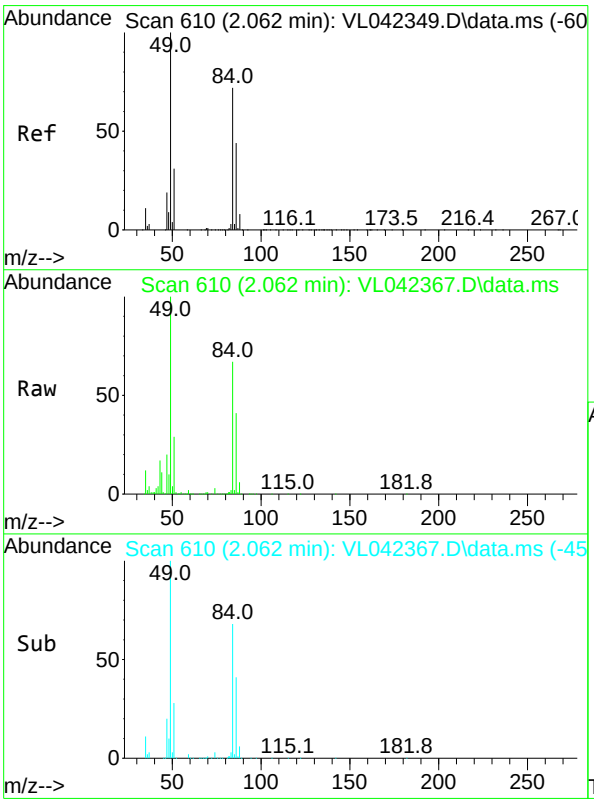
Ion	Ratio	Lower	Upper
45	100		
58	0.0	34.5	51.7

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025

Manual Integrations
APPROVED

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

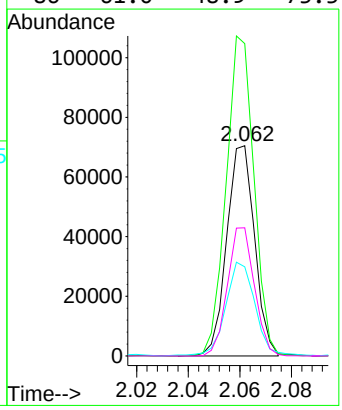


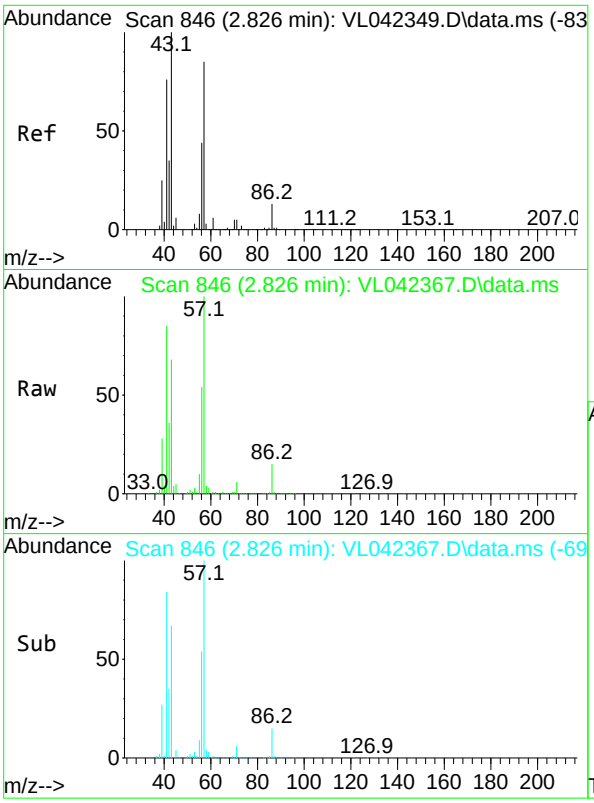


#20
Methylene Chloride
Concen: 7.035 ppbv
RT: 2.062 min Scan# 610
Delta R.T. -0.000 min
Lab File: VL042367.D
Acq: 17 Apr 2025 20:38

Tgt Ion: 84 Resp: 53039

Ion	Ratio	Lower	Upper
84	100		
49	148.2	111.6	167.4
51	42.0	35.1	52.7
86	61.0	48.9	73.3

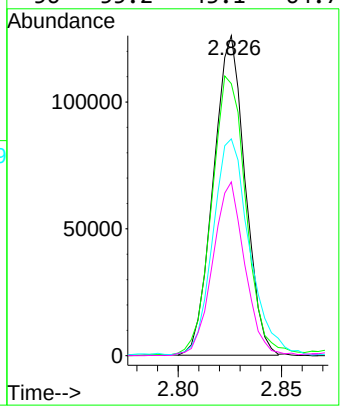




#26
Hexane
Concen: 7.007 ppbv
RT: 2.826 min Scan# 84
Delta R.T. -0.000 min
Lab File: VL042367.D
Acq: 17 Apr 2025 20:38

Tgt Ion: 57 Resp: 13461(

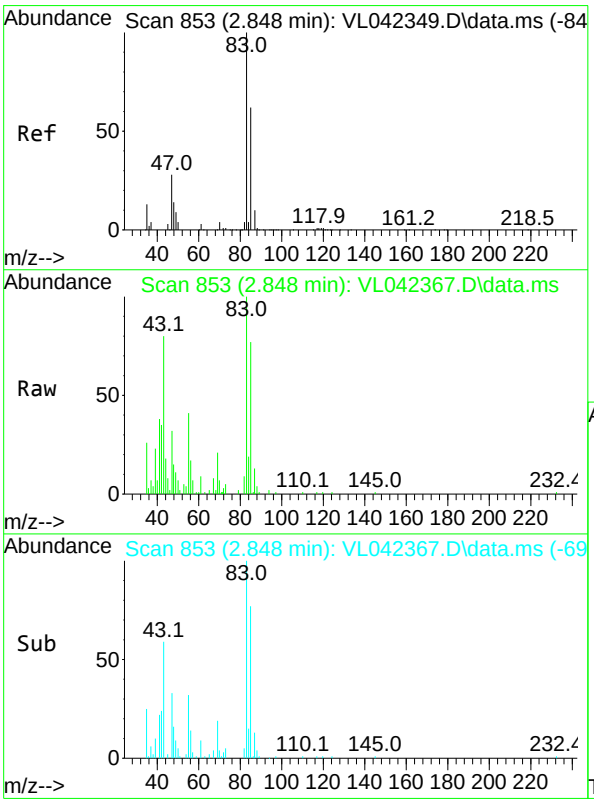
Ion	Ratio	Lower	Upper
57	100		
41	95.1	77.9	116.9
43	77.8	208.4	312.6#
56	55.2	43.1	64.7



Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025

Manual Integrations
APPROVED

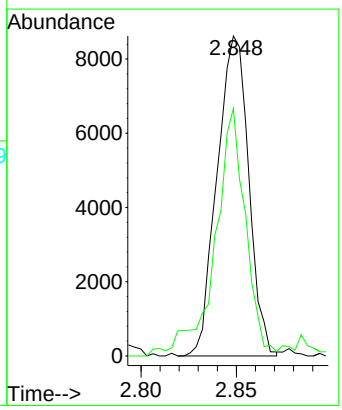
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

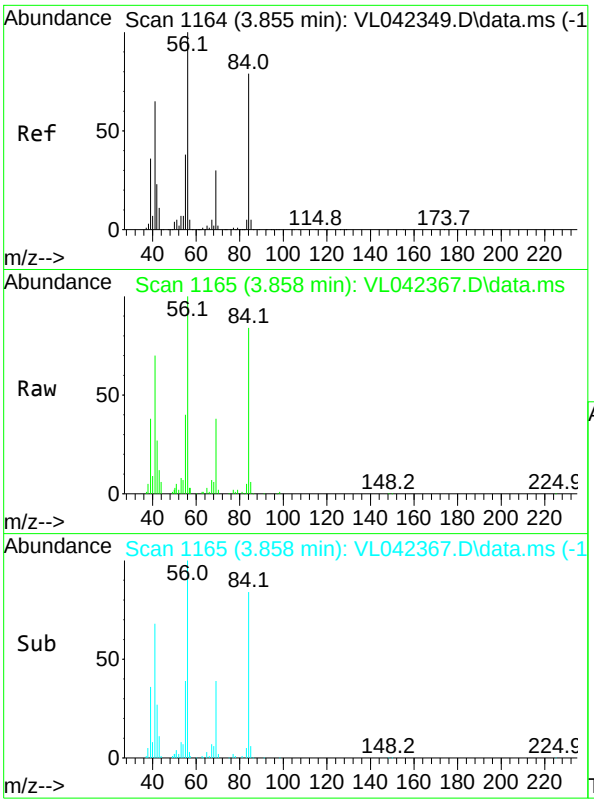


#29
Chloroform
Concen: 0.366 ppbv m
RT: 2.848 min Scan# 853
Delta R.T. -0.000 min
Lab File: VL042367.D
Acq: 17 Apr 2025 20:38

Tgt Ion: 83 Resp: 9936

Ion	Ratio	Lower	Upper
83	100		
85	77.4	50.0	75.0#

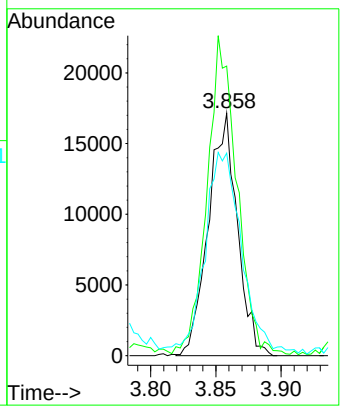




#30
Cyclohexane
Concen: 1.708 ppbv m
RT: 3.858 min Scan# 1
Delta R.T. 0.003 min
Lab File: VL042367.D
Acq: 17 Apr 2025 20:38

Tgt Ion: 84 Resp: 2651

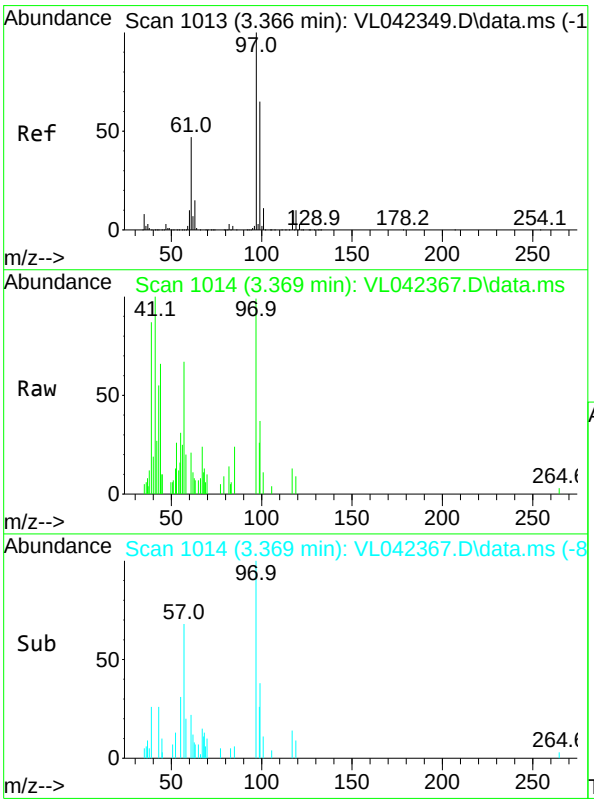
Ion	Ratio	Lower	Upper
84	100		
56	134.2	101.0	151.4
41	99.6	67.4	101.0



Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025

Manual Integrations
APPROVED

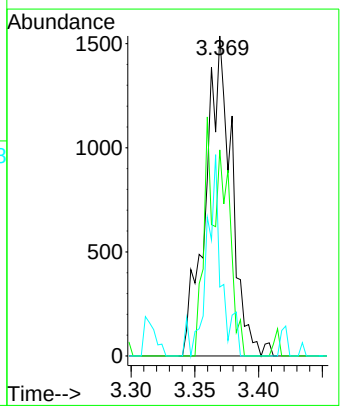
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

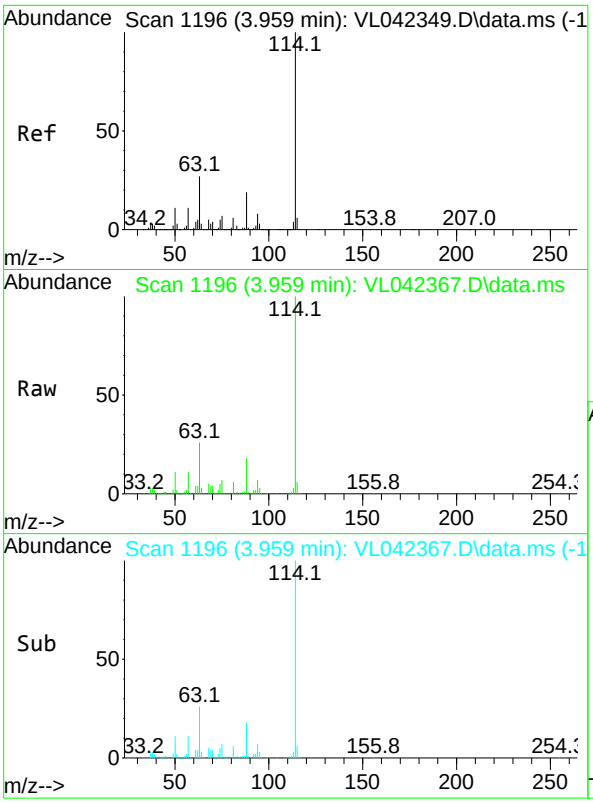


#32
1,1,1-Trichloroethane
Concen: 0.072 ppbv m
RT: 3.369 min Scan# 1014
Delta R.T. 0.003 min
Lab File: VL042367.D
Acq: 17 Apr 2025 20:38

Tgt Ion: 97 Resp: 2187

Ion	Ratio	Lower	Upper
97	100		
99	58.2	51.0	76.4
61	35.3	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: VL042367.D
Acq: 17 Apr 2025 20:38

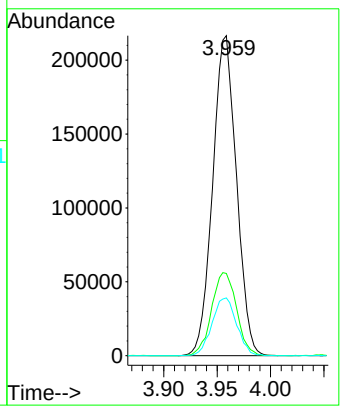
Tgt Ion:114 Resp: 33542

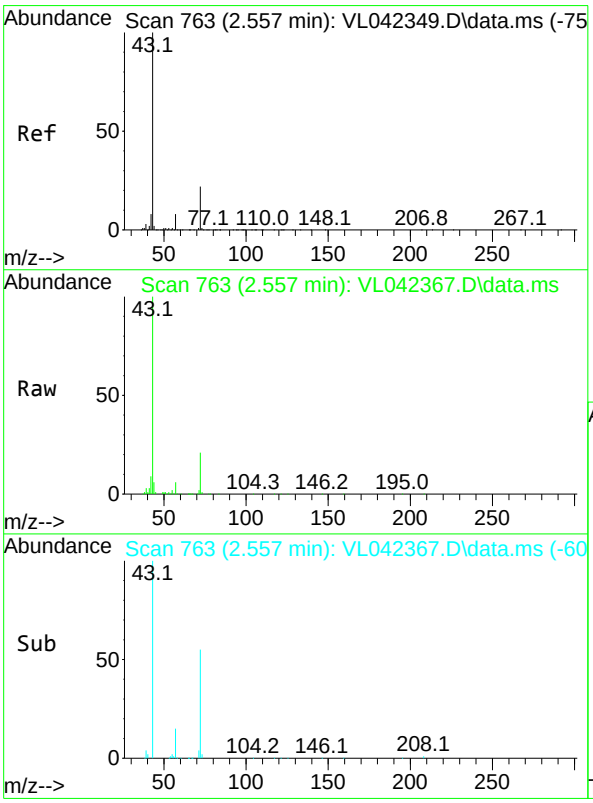
Ion	Ratio	Lower	Upper
114	100		
63	27.3	21.8	32.6
88	18.7	15.5	23.3

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025

Manual Integrations
APPROVED

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

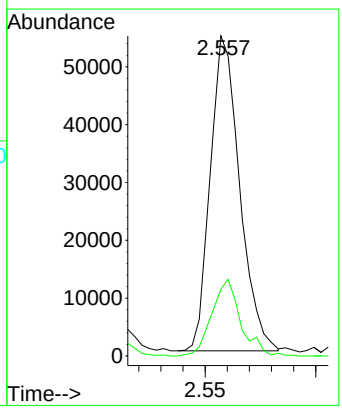


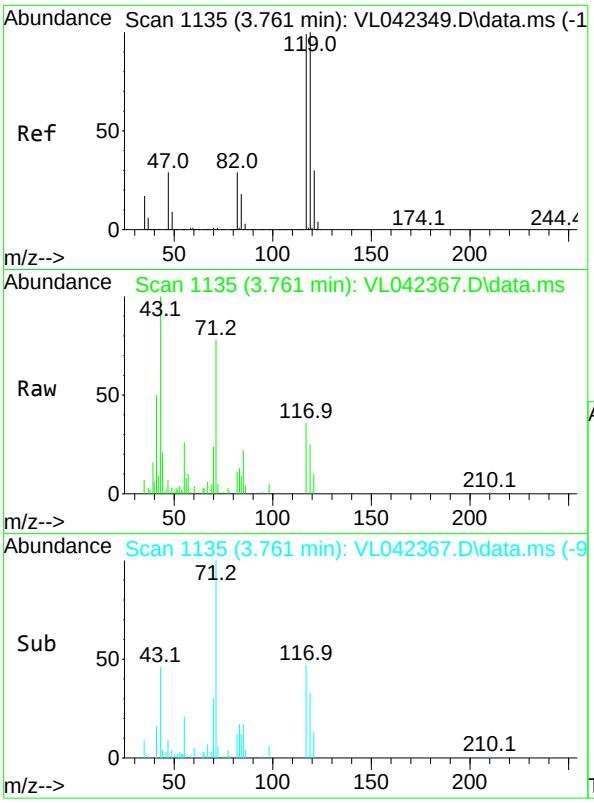


#34
2-Butanone
Concen: 1.893 ppbv
RT: 2.557 min Scan# 763
Delta R.T. -0.000 min
Lab File: VL042367.D
Acq: 17 Apr 2025 20:38

Tgt Ion: 43 Resp: 50219

Ion	Ratio	Lower	Upper
43	100		
72	23.9	18.2	27.2





#35
Carbon Tetrachloride
Concen: 0.103 ppbv m
RT: 3.761 min Scan# 1
Delta R.T. -0.000 min
Lab File: VL042367.D
Acq: 17 Apr 2025 20:38

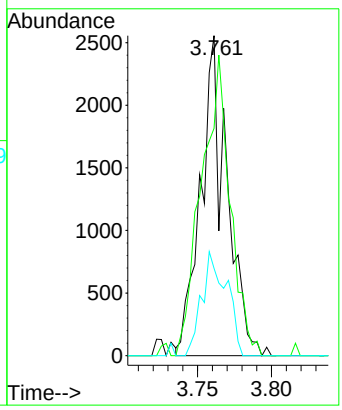
Tgt Ion:117 Resp: 312

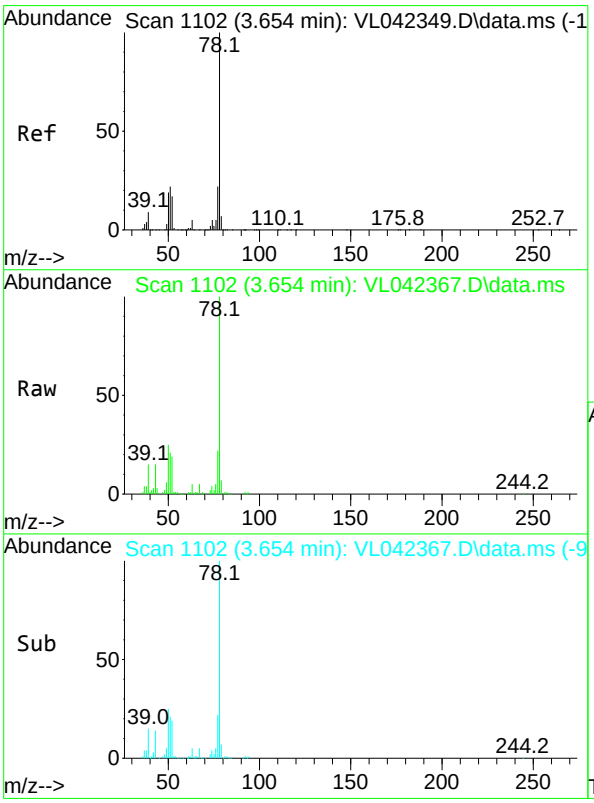
Ion	Ratio	Lower	Upper
117	100		
119	71.0	80.5	120.7#
121	27.3	24.2	36.2

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025

Manual Integrations
APPROVED

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

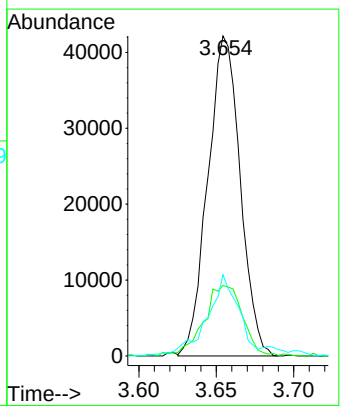


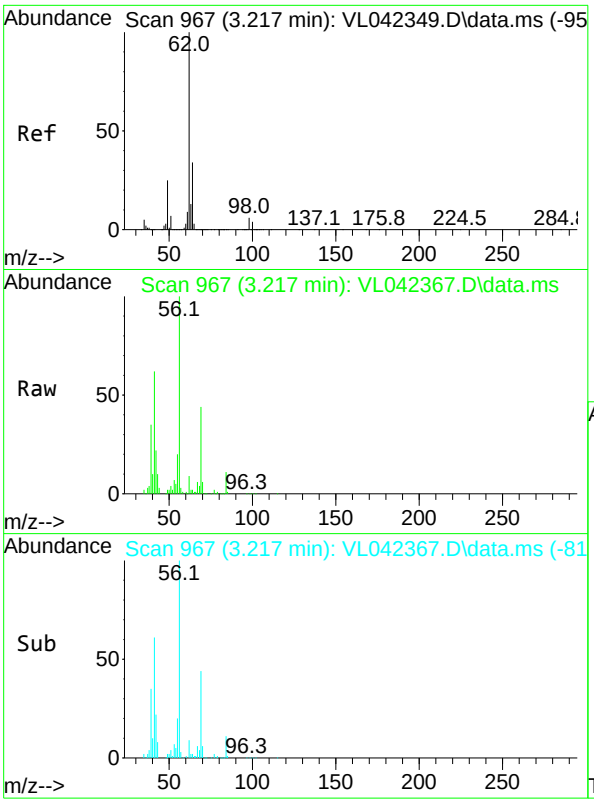


#36
Benzene
Concen: 1.696 ppbv
RT: 3.654 min Scan# 1102
Delta R.T. -0.000 min
Lab File: VL042367.D
Acq: 17 Apr 2025 20:38

Tgt Ion: 78 Resp: 61349

Ion	Ratio	Lower	Upper
78	100		
77	21.9	17.4	26.0
50	23.4	15.5	23.3#

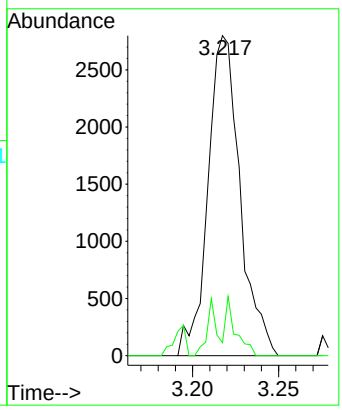




#37
1,2-Dichloroethane
Concen: 0.167 ppbv
RT: 3.217 min Scan# 9
Delta R.T. -0.000 min
Lab File: VL042367.D
Acq: 17 Apr 2025 20:38

Tgt Ion: 62 Resp: 363

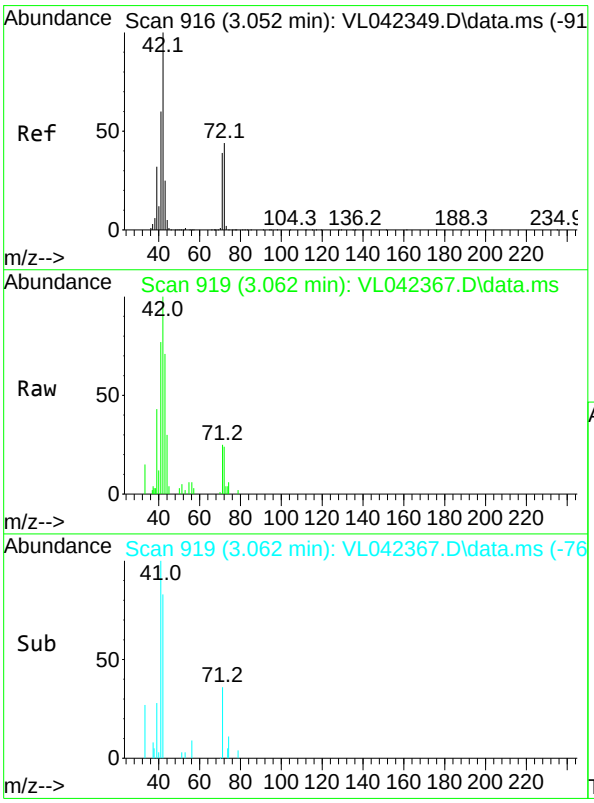
Ion	Ratio	Lower	Upper
62	100		
98	10.7	5.1	7.7#



Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025

Manual Integrations
APPROVED

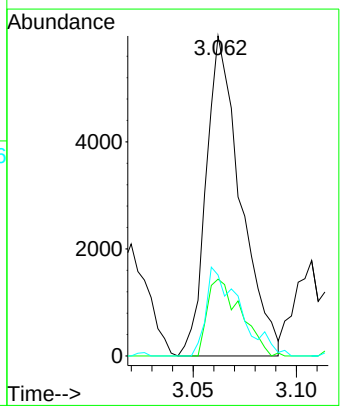
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

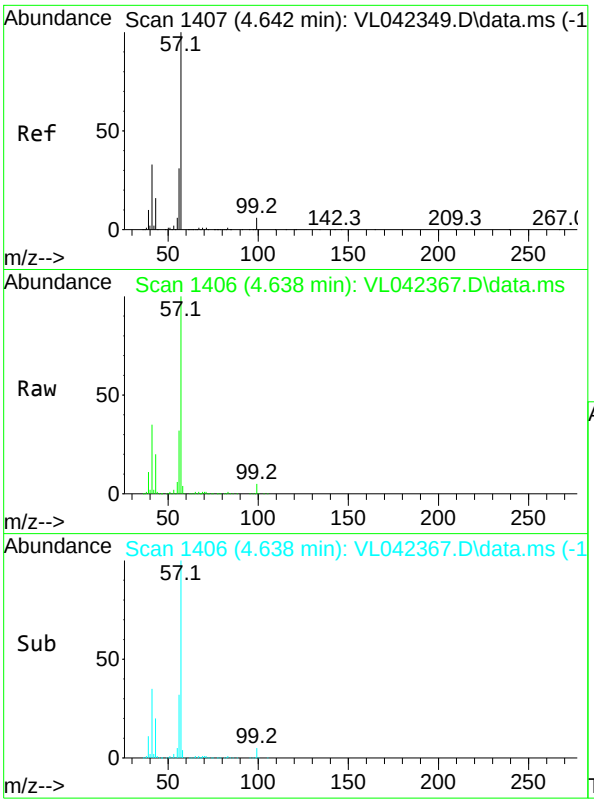


#41
Tetrahydrofuran
Concen: 0.449 ppbv
RT: 3.062 min Scan# 919
Delta R.T. 0.010 min
Lab File: VL042367.D
Acq: 17 Apr 2025 20:38

Tgt Ion: 42 Resp: 6945

Ion	Ratio	Lower	Upper
42	100		
72	23.4	32.3	48.5#
71	27.1	31.4	47.2#

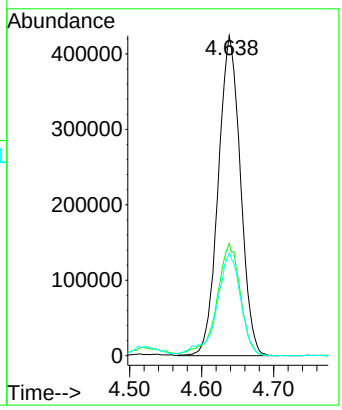




#44
2,2,4-Trimethylpentane
Concen: 14.485 ppbv
RT: 4.638 min Scan# 14
Delta R.T. -0.003 min
Lab File: VL042367.D
Acq: 17 Apr 2025 20:38

Tgt Ion: 57 Resp: 90507(

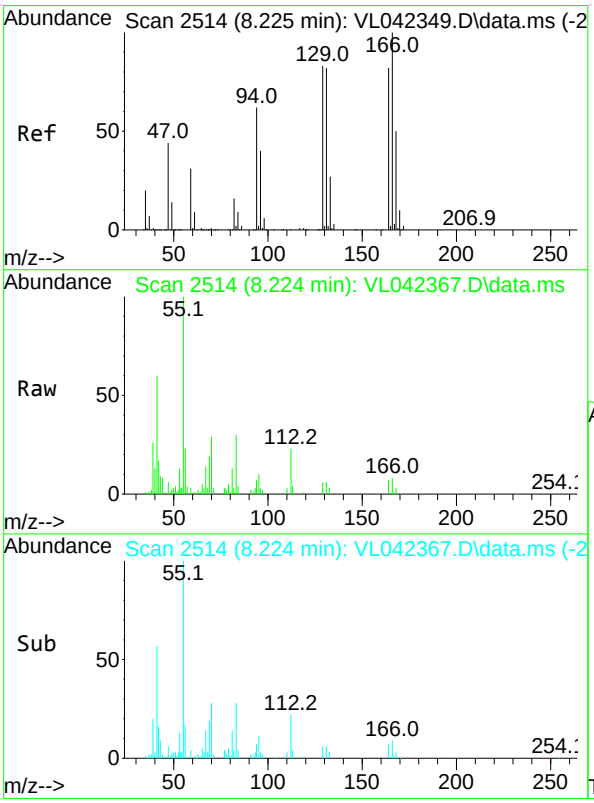
Ion	Ratio	Lower	Upper
57	100		
41	37.4	27.2	40.8
56	35.0	25.7	38.5



Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025

Manual Integrations
APPROVED

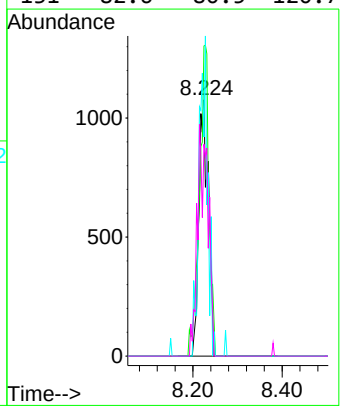
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

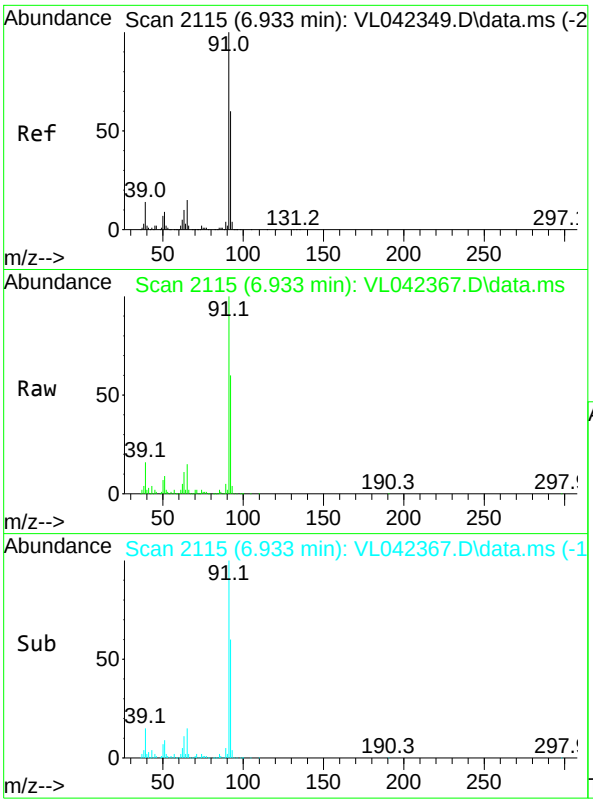


#52
Tetrachloroethene
Concen: 0.111 ppbv m
RT: 8.224 min Scan# 2514
Delta R.T. -0.000 min
Lab File: VL042367.D
Acq: 17 Apr 2025 20:38

Tgt Ion:164 Resp: 1554

Ion	Ratio	Lower	Upper
164	100		
166	121.0	98.2	147.2
129	85.4	81.8	122.8
131	82.6	80.5	120.7

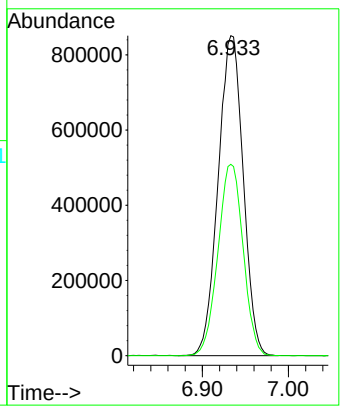




#53
Toluene
Concen: 39.680 ppbv
RT: 6.933 min Scan# 21
Delta R.T. -0.000 min
Lab File: VL042367.D
Acq: 17 Apr 2025 20:38

Tgt Ion: 91 Resp: 172269

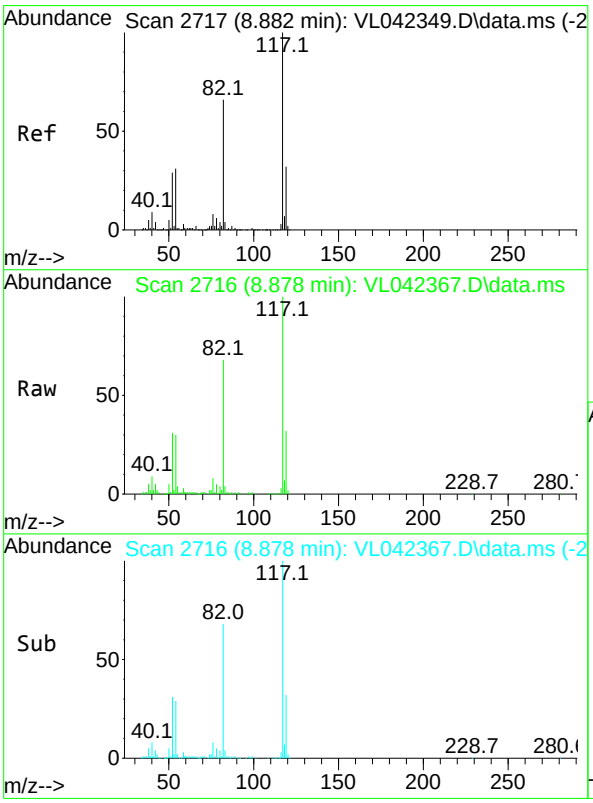
Ion	Ratio	Lower	Upper
91	100		
92	60.1	48.2	72.4



Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025

Manual Integrations
APPROVED

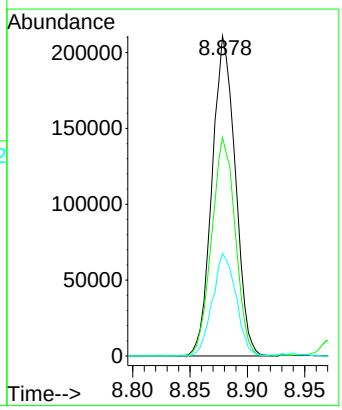
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

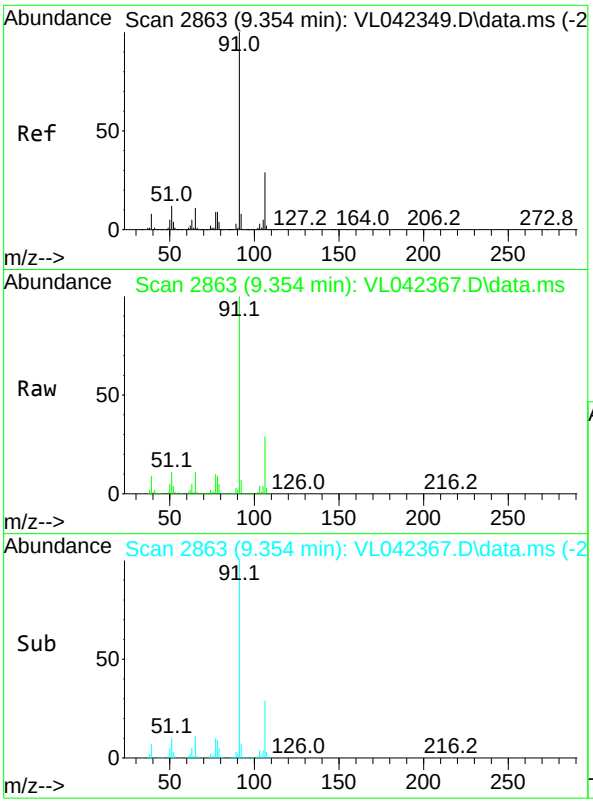


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.878 min Scan# 2716
Delta R.T. -0.003 min
Lab File: VL042367.D
Acq: 17 Apr 2025 20:38

Tgt Ion:117 Resp: 296955

Ion	Ratio	Lower	Upper
117	100		
82	69.4	57.8	86.6
119	32.6	25.2	37.8





#58
Ethyl Benzene
Concen: 8.592 ppbv
RT: 9.354 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL042367.D
Acq: 17 Apr 2025 20:38

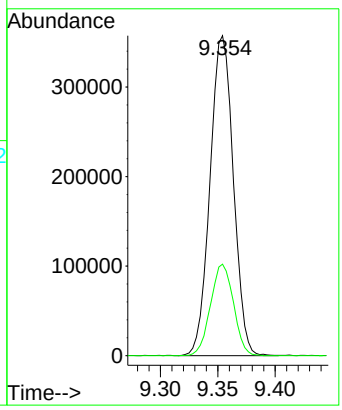
Tgt Ion: 91 Resp: 50549

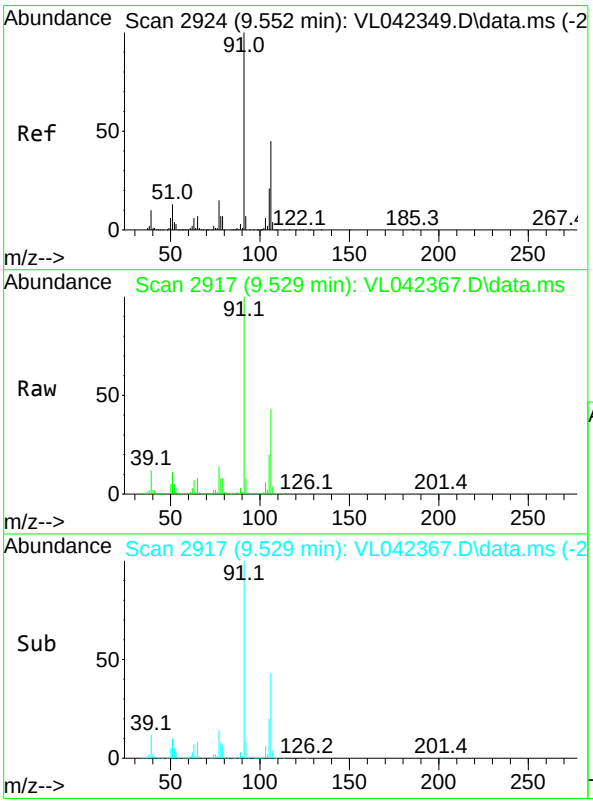
Ion	Ratio	Lower	Upper
91	100		
106	28.6	23.0	34.4

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025

Manual Integrations
APPROVED

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

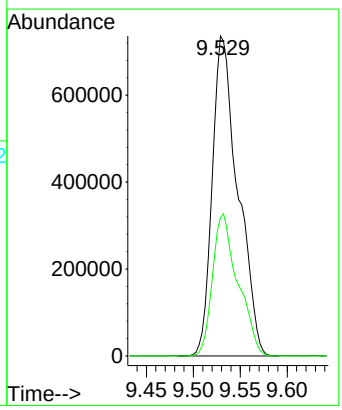


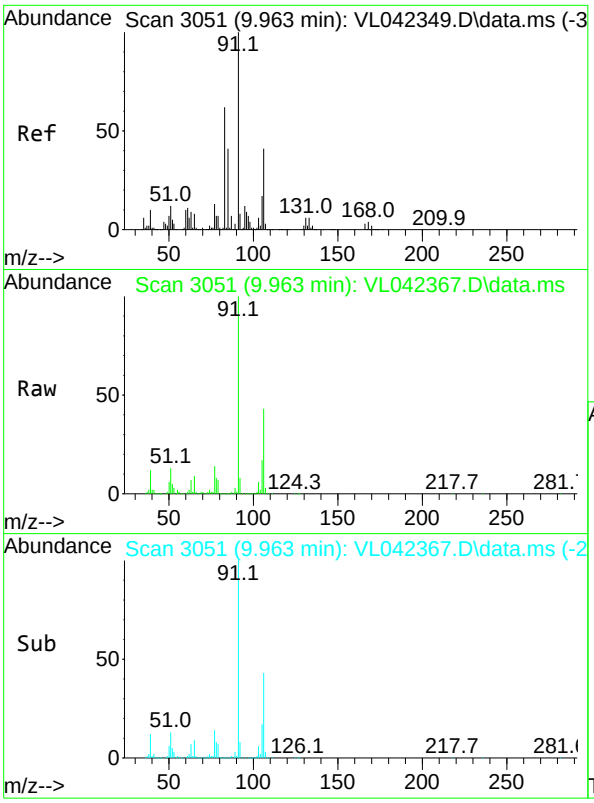


#59
m/p-Xylene
Concen: 29.524 ppbv
RT: 9.529 min Scan# 2917
Delta R.T. -0.023 min
Lab File: VL042367.D
Acq: 17 Apr 2025 20:38

Tgt Ion: 91 Resp: 1399337

Ion	Ratio	Lower	Upper
91	100		
106	44.0	35.4	53.2

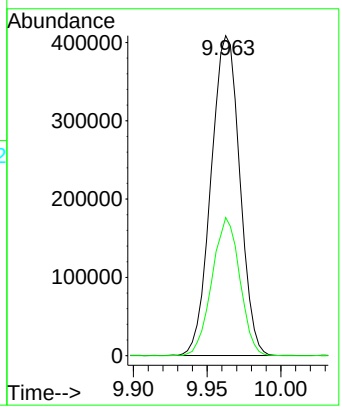




#60
o-Xylene
Concen: 11.586 ppbv
RT: 9.963 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042367.D
Acq: 17 Apr 2025 20:38

Tgt Ion: 91 Resp: 55299

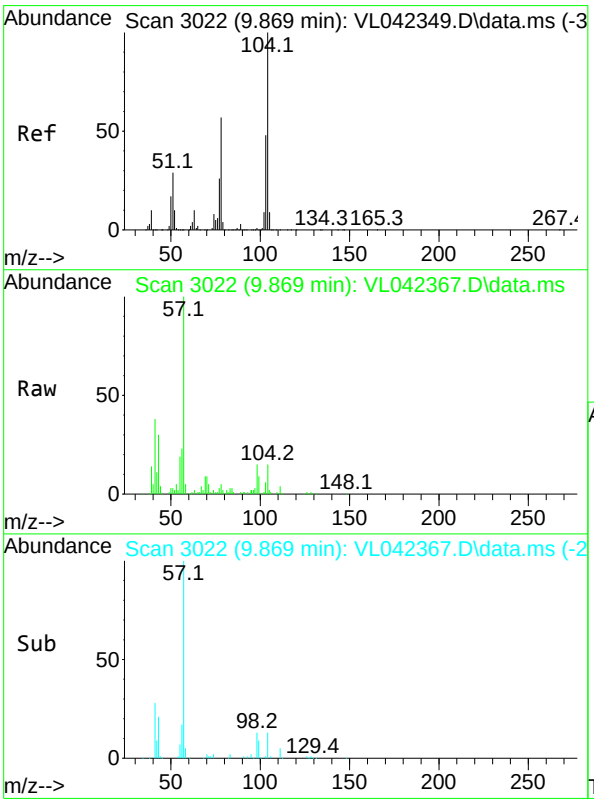
Ion	Ratio	Lower	Upper
91	100		
106	41.8	21.1	63.4



Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025

Manual Integrations
APPROVED

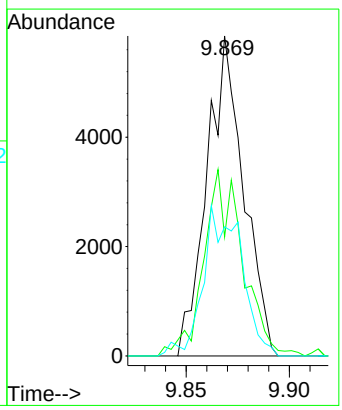
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

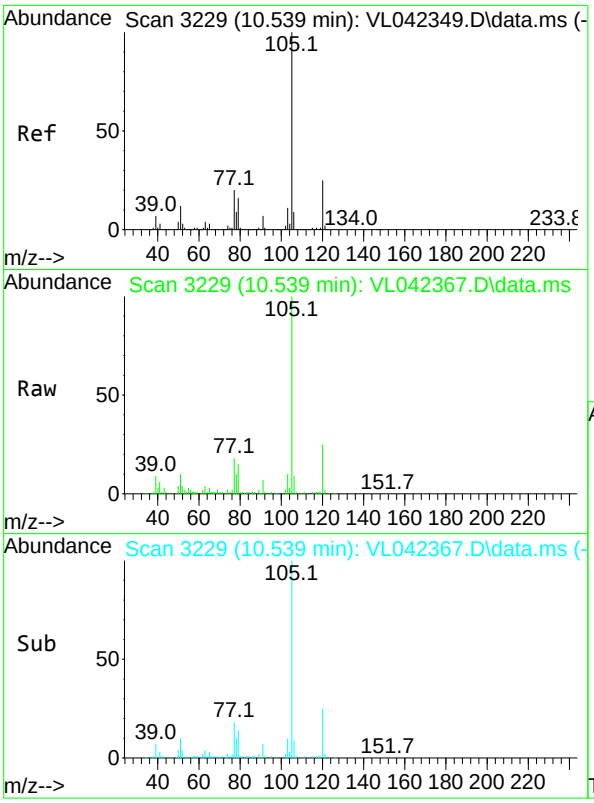


#61
Styrene
Concen: 0.319 ppbv
RT: 9.869 min Scan# 3022
Delta R.T. -0.000 min
Lab File: VL042367.D
Acq: 17 Apr 2025 20:38

Tgt Ion:104 Resp: 7256

Ion	Ratio	Lower	Upper
104	100		
78	60.9	44.6	66.8
103	48.9	37.4	56.0

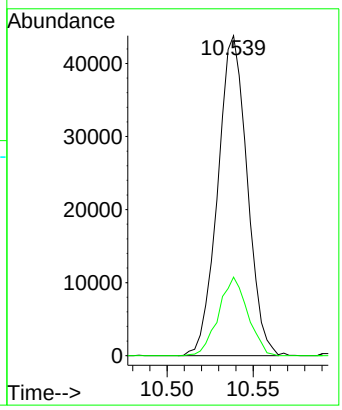




#62
Isopropylbenzene
Concen: 0.744 ppbv
RT: 10.539 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042367.D
Acq: 17 Apr 2025 20:38

Tgt Ion:105 Resp: 5210

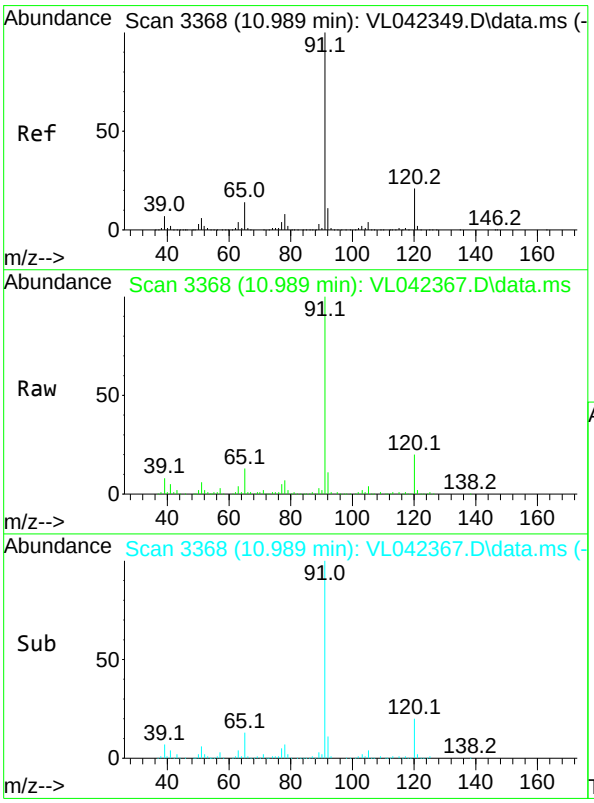
Ion	Ratio	Lower	Upper
105	100		
120	24.3	19.8	29.8



Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025

Manual Integrations
APPROVED

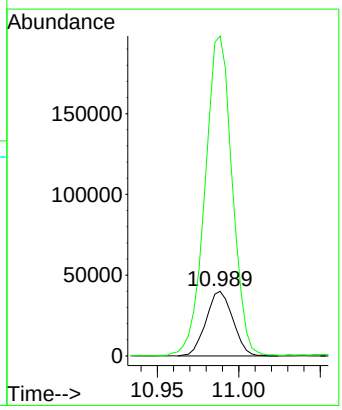
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

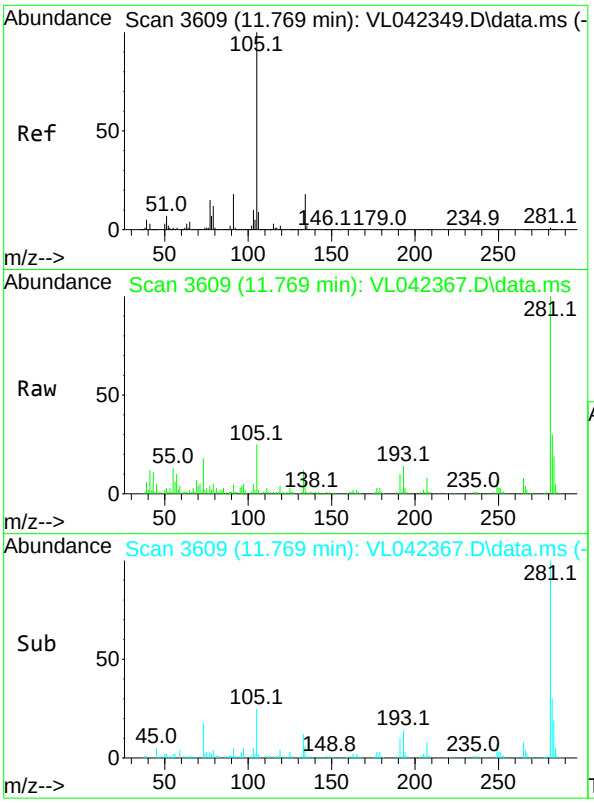


#64
n-propylbenzene
Concen: 2.595 ppbv
RT: 10.989 min Scan# 3368
Delta R.T. -0.000 min
Lab File: VL042367.D
Acq: 17 Apr 2025 20:38

Tgt Ion:120 Resp: 45701

Ion	Ratio	Lower	Upper
120	100		
91	503.4	392.4	588.6





#67
sec-Butylbenzene
Concen: 0.177 ppbv
RT: 11.769 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042367.D
Acq: 17 Apr 2025 20:38

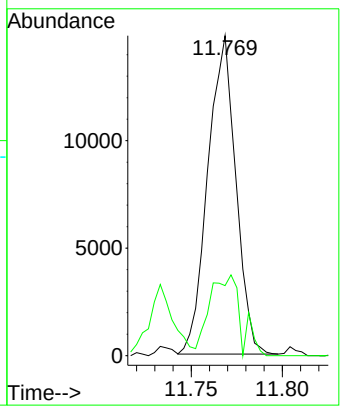
Tgt Ion:105 Resp: 1581

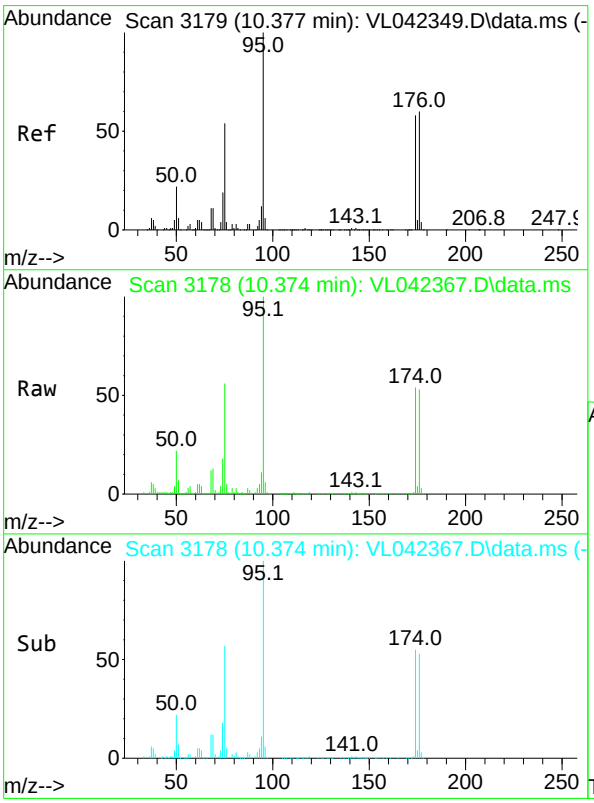
Ion	Ratio	Lower	Upper
105	100		
134	28.7	14.6	21.8

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025

Manual Integrations
APPROVED

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

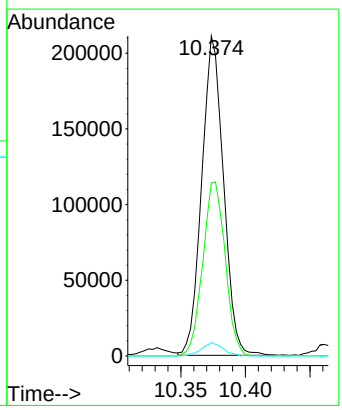


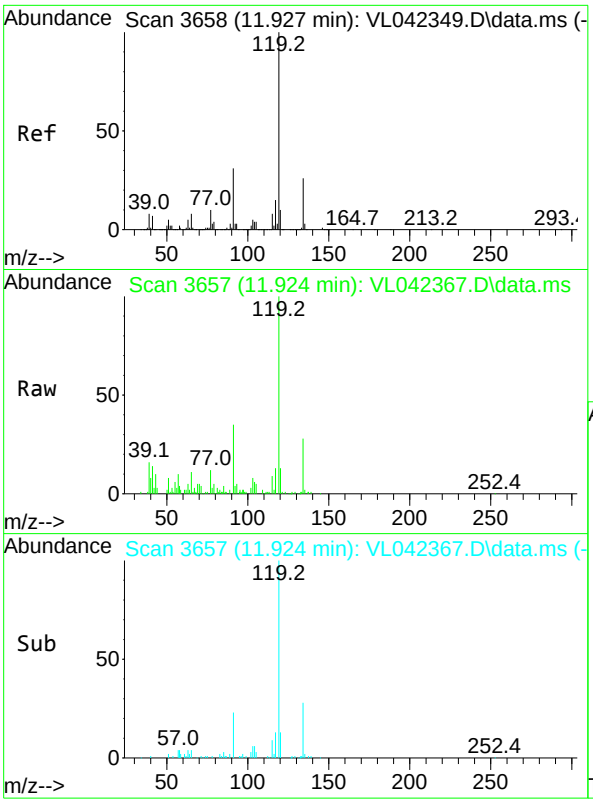


#68
1-Bromo-4-Fluorobenzene
Concen: 10.134 ppbv
RT: 10.374 min Scan# 3178
Delta R.T. -0.003 min
Lab File: VL042367.D
Acq: 17 Apr 2025 20:38

Tgt Ion: 95 Resp: 247280

Ion	Ratio	Lower	Upper
95	100		
174	56.3	48.5	72.7
175	4.2	3.7	5.5





#69
p-Isopropyltoluene
Concen: 0.315 ppbv
RT: 11.924 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042367.D
Acq: 17 Apr 2025 20:38

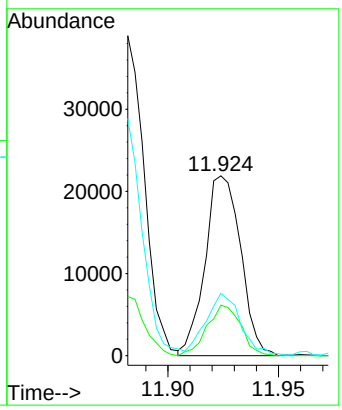
Tgt Ion:119 Resp: 2455

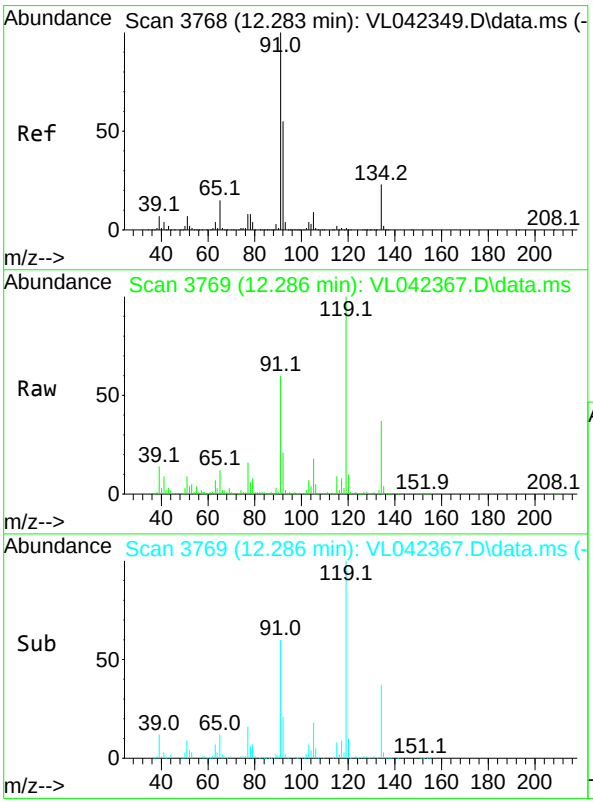
Ion	Ratio	Lower	Upper
119	100		
134	26.2	20.0	30.0
91	33.6	24.4	36.6

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025

Manual Integrations
APPROVED

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

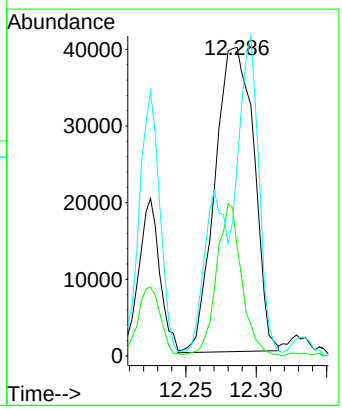


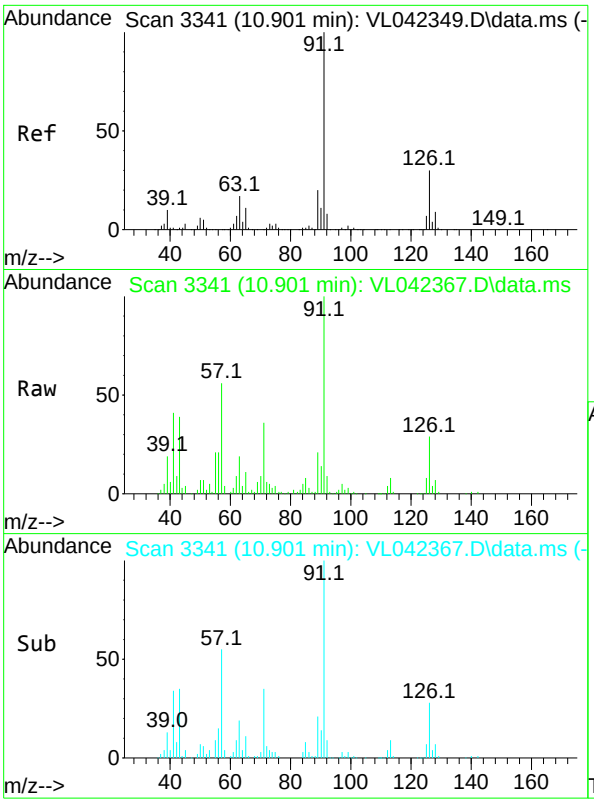


#70
n-Butylbenzene
Concen: 0.940 ppbv
RT: 12.286 min Scan# 3769
Delta R.T. 0.003 min
Lab File: VL042367.D
Acq: 17 Apr 2025 20:38

Tgt Ion: 91 Resp: 76213

Ion	Ratio	Lower	Upper
91	100		
92	33.3	44.2	66.4#
134	89.1	18.2	27.4#

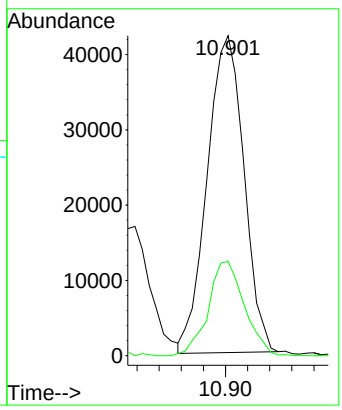




#71
2-Chlorotoluene
Concen: 0.886 ppbv
RT: 10.901 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042367.D
Acq: 17 Apr 2025 20:38

Tgt Ion: 91 Resp: 4868

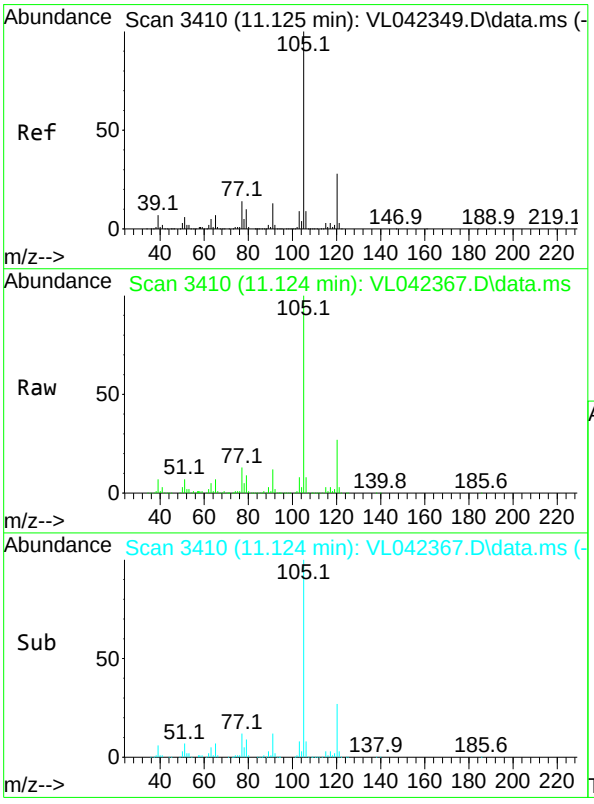
Ion	Ratio	Lower	Upper
91	100		
126	29.3	11.4	45.4



Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025

Manual Integrations
APPROVED

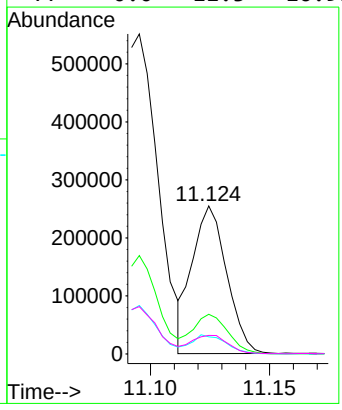
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

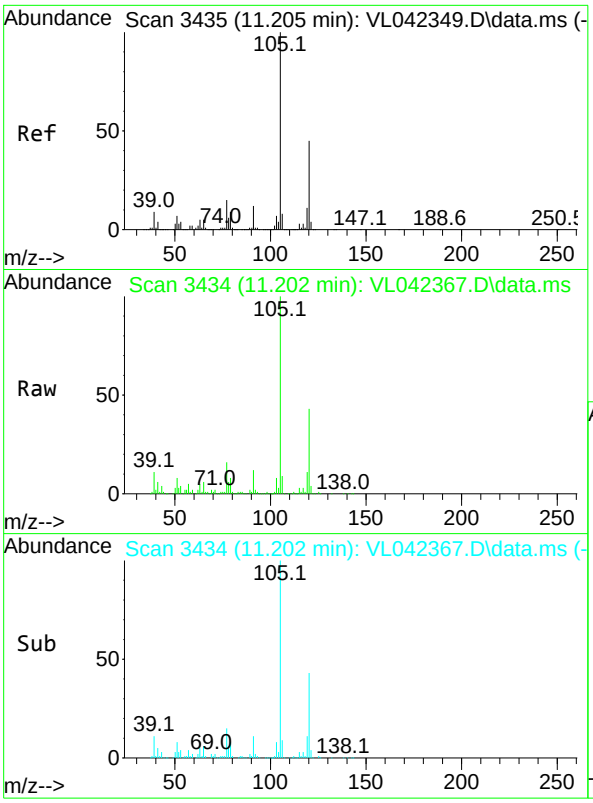


#72
4-Ethyltoluene
Concen: 4.410 ppbv
RT: 11.124 min Scan# 3410
Delta R.T. -0.000 min
Lab File: VL042367.D
Acq: 17 Apr 2025 20:38

Tgt Ion:105 Resp: 257296

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#

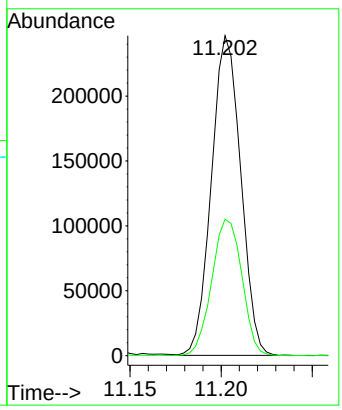




#73
1,3,5-Trimethylbenzene
Concen: 5.343 ppbv
RT: 11.202 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042367.D
Acq: 17 Apr 2025 20:38

Tgt Ion:105 Resp: 27525

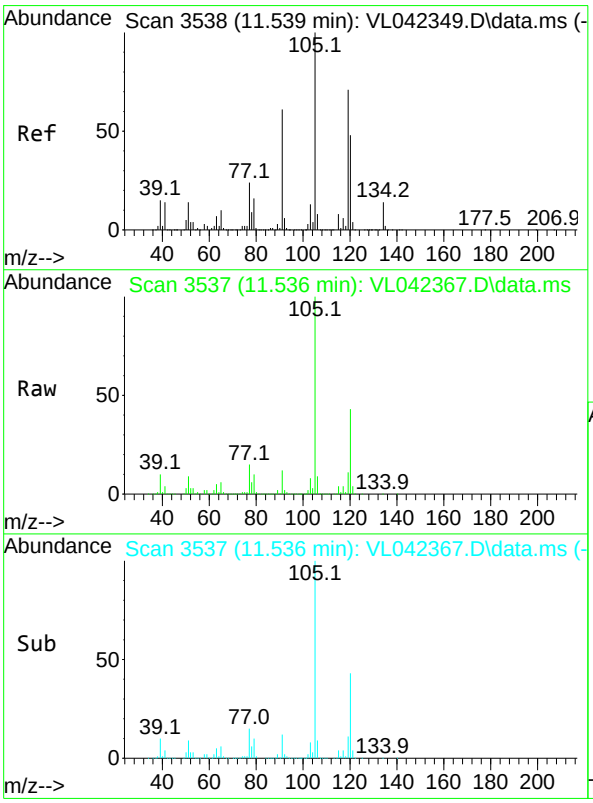
Ion	Ratio	Lower	Upper
105	100		
120	42.6	35.6	53.4



Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025

Manual Integrations
APPROVED

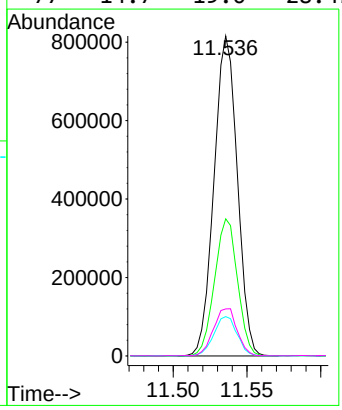
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

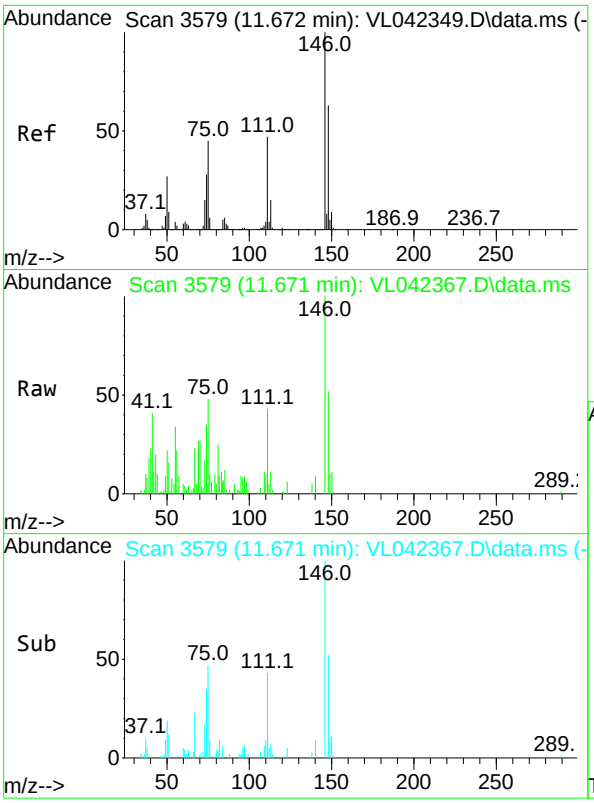


#74
1,2,4-Trimethylbenzene
Concen: 14.886 ppbv
RT: 11.536 min Scan# 3537
Delta R.T. -0.003 min
Lab File: VL042367.D
Acq: 17 Apr 2025 20:38

Tgt Ion:105 Resp: 895635

Ion	Ratio	Lower	Upper
105	100		
120	42.9	38.1	57.1
91	12.3	48.8	73.2#
77	14.7	19.0	28.4#

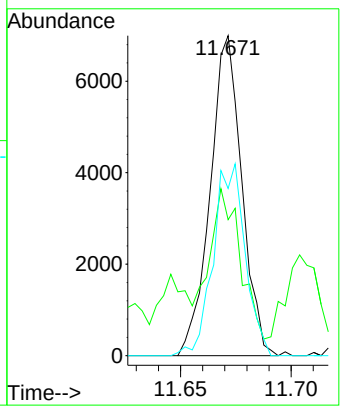




#76
1,4-Dichlorobenzene
Concen: 0.221 ppbv
RT: 11.671 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042367.D
Acq: 17 Apr 2025 20:38

Tgt Ion:146 Resp: 695

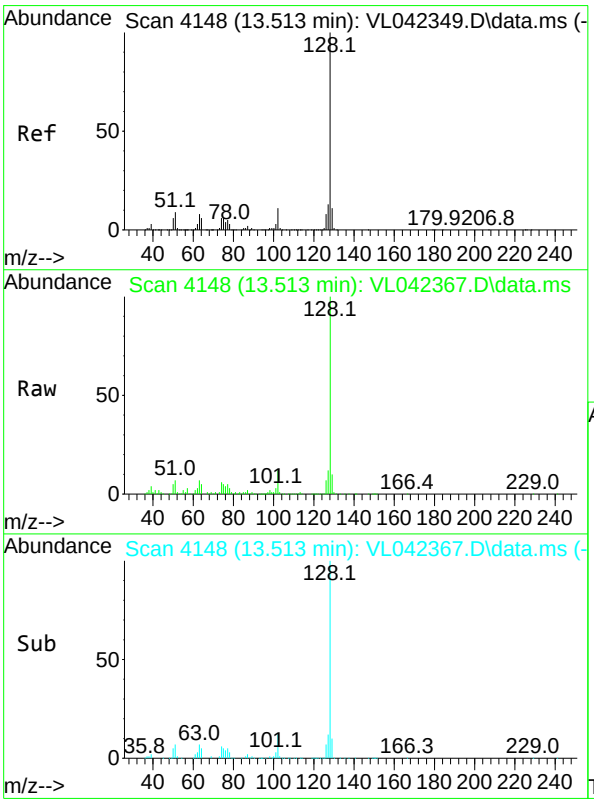
Ion	Ratio	Lower	Upper
146	100		
111	92.3	24.2	72.6
148	60.3	32.1	96.5



Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025

Manual Integrations
APPROVED

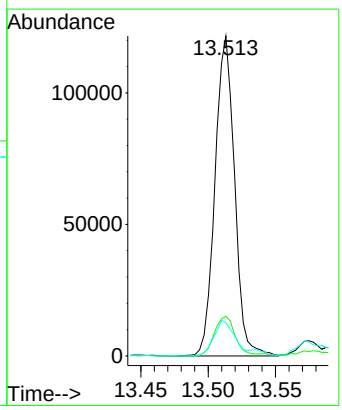
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

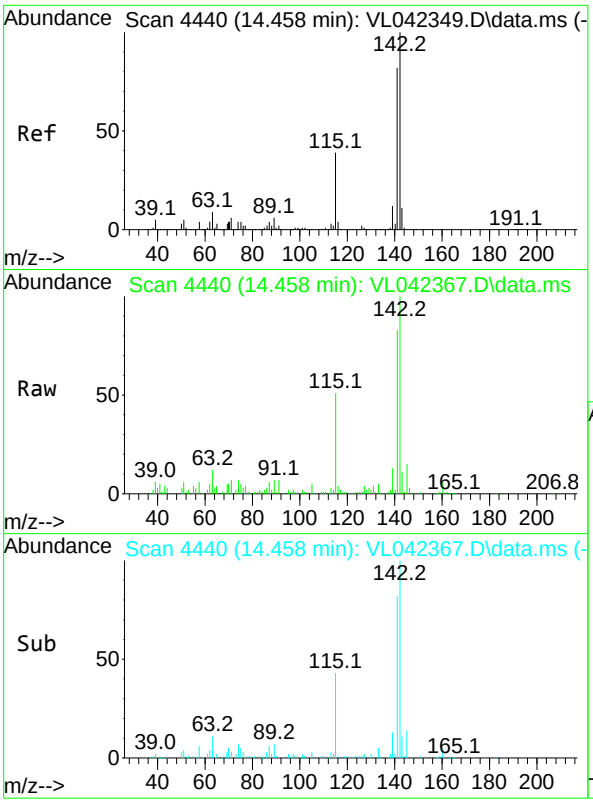


#79
Naphthalene
Concen: 1.709 ppbv
RT: 13.513 min Scan# 4148
Delta R.T. -0.000 min
Lab File: VL042367.D
Acq: 17 Apr 2025 20:38

Tgt Ion:128 Resp: 122970

Ion	Ratio	Lower	Upper
128	100		
127	12.4	10.6	15.8
129	10.4	8.6	12.8

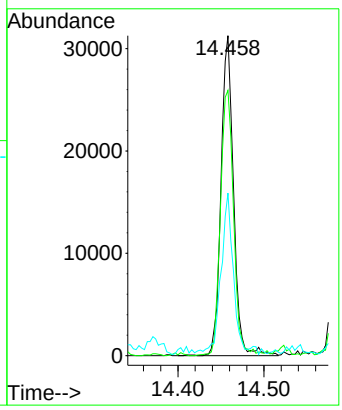




#80
Naphthalene,2-methyl-
Concen: 0.769 ppbv
RT: 14.458 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042367.D
Acq: 17 Apr 2025 20:38

Tgt Ion:142 Resp: 3153

Ion	Ratio	Lower	Upper
142	100		
141	87.8	66.8	100.2
115	49.3	33.4	50.2



Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025

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 : VL042367.D
Acq On : 17 Apr 2025 20:38
Operator : SY/MD
Sample : Q1726-02
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025

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: VL042367.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	4172142	4761077	88.68%	7.020%
2	1.466	423	426	428	rBV	183375	90947	1.69%	0.134%
3	1.486	428	432	435	rBV2	278084	136546	2.54%	0.201%
4	1.525	440	444	450	rVV2	648689	381395	7.10%	0.562%
5	1.557	450	454	458	rVV2	953684	482045	8.98%	0.711%
6	1.622	470	474	477	rVB	977681	539988	10.06%	0.796%
7	1.722	500	505	512	rVB	954156	609667	11.36%	0.899%
8	1.832	535	539	549	rVB	6148993	5083997	94.69%	7.496%
9	1.884	549	555	560	rBV	609329	430441	8.02%	0.635%
10	1.962	574	579	584	rVB	197667	133863	2.49%	0.197%
11	2.059	600	609	614	rBV3	378942	353591	6.59%	0.521%
12	2.272	667	675	682	rBV2	176624	147814	2.75%	0.218%
13	2.473	732	737	743	rVB	259486	264485	4.93%	0.390%
14	2.557	758	763	771	rVB	84104	82078	1.53%	0.121%
15	2.622	772	783	793	rVB	213262	222692	4.15%	0.328%
16	2.693	793	805	814	rBV3	64974	88677	1.65%	0.131%
17	2.787	826	834	839	rBV2	445975	445813	8.30%	0.657%
18	2.826	839	846	858	rVB	544623	645375	12.02%	0.952%
19	3.227	963	970	979	rVB	229763	293156	5.46%	0.432%
20	3.282	979	987	1000	rVB3	129079	191159	3.56%	0.282%
21	3.654	1085	1102	1106	rBV4	115451	242329	4.51%	0.357%
22	3.683	1106	1111	1126	rVV2	212069	332295	6.19%	0.490%
23	3.768	1126	1137	1151	rVB6	40230	80937	1.51%	0.119%
24	3.858	1151	1165	1182	rVV2	98076	175987	3.28%	0.259%
25	3.955	1182	1195	1207	rVV	570180	910216	16.95%	1.342%
26	4.049	1207	1224	1232	rVV3	394480	749706	13.96%	1.105%
27	4.098	1232	1239	1251	rVB3	168408	296034	5.51%	0.436%
28	4.266	1278	1291	1308	rVB2	424690	825757	15.38%	1.217%
29	4.438	1333	1344	1356	rBV4	85989	170969	3.18%	0.252%
30	4.522	1356	1370	1384	rVV7	83254	254646	4.74%	0.375%
31	4.638	1384	1406	1427	rVB	979888	2267902	42.24%	3.344%
32	4.920	1479	1493	1499	rBV6	56407	118018	2.20%	0.174%
33	4.978	1499	1511	1523	rVB5	338192	713873	13.30%	1.053%
34	5.302	1596	1611	1629	rVB9	61451	169859	3.16%	0.250%
35	5.664	1700	1723	1740	rVB6	232654	671087	12.50%	0.989%
36	5.784	1745	1760	1775	rBV6	36576	106395	1.98%	0.157%

LSC Area Percent Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042367.D
Acq On : 17 Apr 2025 20:38
Operator : SY/MD
Sample : Q1726-02
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025

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	6.130	1851	1867	1875	rBV7	57248	147139	2.74%	0.217%
38	6.198	1875	1888	1899	rVV5	157073	460913	8.58%	0.680%
39	6.263	1899	1908	1910	rVV3	159545	258123	4.81%	0.381%
40	6.273	1910	1911	1928	rVB3	154580	185334	3.45%	0.273%
41	6.464	1956	1970	1983	rBV4	49207	127319	2.37%	0.188%
42	6.823	2064	2081	2098	rBV3	485627	1188518	22.14%	1.752%
43	6.936	2098	2116	2136	rVB	2369620	5369070	100.00%	7.916%
44	7.185	2175	2193	2203	rBV2	189346	407045	7.58%	0.600%
45	7.276	2212	2221	2233	rVB7	45431	92309	1.72%	0.136%
46	7.380	2239	2253	2261	rBV2	278552	567630	10.57%	0.837%
47	7.419	2261	2265	2287	rVB5	104623	248191	4.62%	0.366%
48	7.597	2308	2320	2337	rBV6	302090	851006	15.85%	1.255%
49	7.684	2337	2347	2367	rVB7	120110	279451	5.20%	0.412%
50	7.894	2399	2412	2430	rBV2	263660	621270	11.57%	0.916%
51	8.131	2475	2485	2502	rVV6	110053	224589	4.18%	0.331%
52	8.231	2505	2516	2522	rVV4	79178	153573	2.86%	0.226%
53	8.273	2522	2529	2530	rVV3	116800	142888	2.66%	0.211%
54	8.299	2530	2537	2556	rVB4	479392	896211	16.69%	1.321%
55	8.432	2570	2578	2585	rBV3	59410	98138	1.83%	0.145%
56	8.467	2585	2589	2604	rVB9	43973	88329	1.65%	0.130%
57	8.691	2648	2658	2664	rBV4	54735	78914	1.47%	0.116%
58	8.878	2702	2716	2726	rBV	769382	1196497	22.28%	1.764%
59	8.940	2726	2735	2740	rVV3	83800	142360	2.65%	0.210%
60	8.979	2740	2747	2762	rVB7	165611	387618	7.22%	0.572%
61	9.063	2762	2773	2777	rBV9	42206	73557	1.37%	0.108%
62	9.098	2777	2784	2790	rVV2	66078	92915	1.73%	0.137%
63	9.144	2790	2798	2812	rVB2	126331	203728	3.79%	0.300%
64	9.241	2820	2828	2841	rVB2	27369	63723	1.19%	0.094%
65	9.354	2852	2863	2877	rBV	869257	1294795	24.12%	1.909%
66	9.412	2877	2881	2892	rVB5	60684	90094	1.68%	0.133%
67	9.529	2907	2917	2936	rVB	2115619	4120790	76.75%	6.076%
68	9.652	2949	2955	2965	rBV7	39643	69724	1.30%	0.103%
69	9.729	2965	2979	2993	rVB5	238351	521172	9.71%	0.768%
70	9.859	3005	3019	3026	rBV2	251680	393608	7.33%	0.580%
71	9.963	3036	3051	3061	rBV	1188344	1746019	32.52%	2.574%
72	10.001	3061	3063	3074	rVB5	61230	81796	1.52%	0.121%
73	10.073	3074	3085	3088	rBV5	62579	90707	1.69%	0.134%
74	10.102	3088	3094	3100	rVV4	119117	169945	3.17%	0.251%
75	10.141	3100	3106	3114	rVB7	63363	101354	1.89%	0.149%
76	10.351	3161	3171	3173	rBV2	402432	455542	8.48%	0.672%

LSC Area Percent Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042367.D
Acq On : 17 Apr 2025 20:38
Operator : SY/MD
Sample : Q1726-02
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025

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	10.374	3173	3178	3188	rVV	948921	1180248	21.98%	1.740%
78	10.429	3188	3195	3203	rVB5	65059	85364	1.59%	0.126%
79	10.539	3219	3229	3235	rBV	122542	161793	3.01%	0.239%
80	10.768	3288	3300	3305	rBV3	78103	136761	2.55%	0.202%
81	10.801	3305	3310	3316	rVV6	71697	95119	1.77%	0.140%
82	10.856	3321	3327	3334	rVV4	212976	282495	5.26%	0.417%
83	10.901	3334	3341	3353	rVV	245372	319757	5.96%	0.471%
84	10.989	3353	3368	3382	rVB	435096	622699	11.60%	0.918%
85	11.095	3392	3401	3406	rBV	1519747	1705822	31.77%	2.515%
86	11.124	3406	3410	3419	rVB2	644799	666796	12.42%	0.983%
87	11.202	3419	3434	3442	rBV	779106	927572	17.28%	1.368%
88	11.257	3442	3451	3453	rBV3	66927	73412	1.37%	0.108%
89	11.280	3453	3458	3462	rVV2	131234	149978	2.79%	0.221%
90	11.312	3462	3468	3471	rVV3	242188	294394	5.48%	0.434%
91	11.338	3471	3476	3489	rVB	534993	612800	11.41%	0.904%
92	11.403	3489	3496	3500	rBV	144827	161162	3.00%	0.238%
93	11.422	3500	3502	3511	rVB5	62338	70908	1.32%	0.105%
94	11.536	3528	3537	3549	rBV	2418149	2733373	50.91%	4.030%
95	11.591	3549	3554	3564	rVB7	52134	75942	1.41%	0.112%
96	11.752	3598	3604	3607	rBV	316305	332252	6.19%	0.490%
97	11.772	3607	3610	3623	rVB	313654	373437	6.96%	0.551%
98	11.879	3636	3643	3651	rVB	662589	707650	13.18%	1.043%
99	11.924	3651	3657	3662	rBV2	61781	77039	1.43%	0.114%
100	12.018	3676	3686	3690	rBV	390116	441234	8.22%	0.651%
101	12.040	3690	3693	3701	rVV4	196756	197574	3.68%	0.291%
102	12.086	3701	3707	3717	rVB3	111701	151663	2.82%	0.224%
103	12.170	3726	3733	3736	rBV4	88699	97600	1.82%	0.144%
104	12.196	3736	3741	3744	rVV3	161806	164469	3.06%	0.242%
105	12.225	3744	3750	3757	rVB	498588	511108	9.52%	0.754%
106	12.270	3757	3764	3767	rBV	219537	261383	4.87%	0.385%
107	12.293	3767	3771	3777	rVB2	386207	402594	7.50%	0.594%
108	12.403	3793	3805	3811	rBV4	182761	233654	4.35%	0.344%
109	12.439	3811	3816	3821	rVV	167315	174081	3.24%	0.257%
110	12.474	3821	3827	3831	rVV3	96374	111339	2.07%	0.164%
111	12.503	3831	3836	3840	rVV2	354835	416046	7.75%	0.613%
112	12.523	3840	3842	3846	rVV	272575	244411	4.55%	0.360%
113	12.542	3846	3848	3855	rVB2	192766	164804	3.07%	0.243%
114	12.587	3855	3862	3874	rVB3	504003	686015	12.78%	1.011%
115	12.655	3874	3883	3893	rVB7	102262	165746	3.09%	0.244%
116	12.798	3921	3927	3931	rBV	157689	147140	2.74%	0.217%

LSC Area Percent Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042367.D
Acq On : 17 Apr 2025 20:38
Operator : SY/MD
Sample : Q1726-02
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025

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	12.827	3931	3936	3942	rVB2	261200	251037	4.68%	0.370%
118	12.918	3956	3964	3969	rBV	262020	276119	5.14%	0.407%
119	12.950	3969	3974	3984	rVV	364193	369595	6.88%	0.545%
120	13.008	3984	3992	4003	rVB9	56988	106495	1.98%	0.157%
121	13.102	4015	4021	4024	rBV5	91682	100344	1.87%	0.148%
122	13.125	4024	4028	4036	rVB2	262645	285213	5.31%	0.421%
123	13.167	4036	4041	4045	rBV3	88009	88377	1.65%	0.130%
124	13.225	4053	4059	4065	rBV	303296	353163	6.58%	0.521%
125	13.257	4065	4069	4074	rVB2	121904	128232	2.39%	0.189%
126	13.329	4086	4091	4101	rBV5	124817	188124	3.50%	0.277%
127	13.384	4101	4108	4115	rVB2	403105	474631	8.84%	0.700%
128	13.426	4115	4121	4124	rBV3	66664	65478	1.22%	0.097%
129	13.448	4124	4128	4135	rVB2	75847	74878	1.39%	0.110%
130	13.513	4142	4148	4153	rBV	232815	221382	4.12%	0.326%
131	13.571	4160	4166	4170	rBV3	128773	140223	2.61%	0.207%
132	13.591	4170	4172	4178	rVB	84490	63964	1.19%	0.094%
133	13.662	4188	4194	4203	rVB5	173269	248977	4.64%	0.367%
134	13.727	4206	4214	4218	rBV2	160488	162014	3.02%	0.239%
135	13.976	4287	4291	4299	rVB4	60993	61287	1.14%	0.090%
136	14.109	4319	4332	4343	rVB3	75740	129887	2.42%	0.192%
137	14.225	4361	4368	4373	rBV6	48033	63000	1.17%	0.093%
138	14.458	4431	4440	4446	rBV	133630	138466	2.58%	0.204%
139	14.520	4453	4459	4471	rVB3	86194	99777	1.86%	0.147%
140	14.588	4473	4480	4489	rBV	59458	63474	1.18%	0.094%

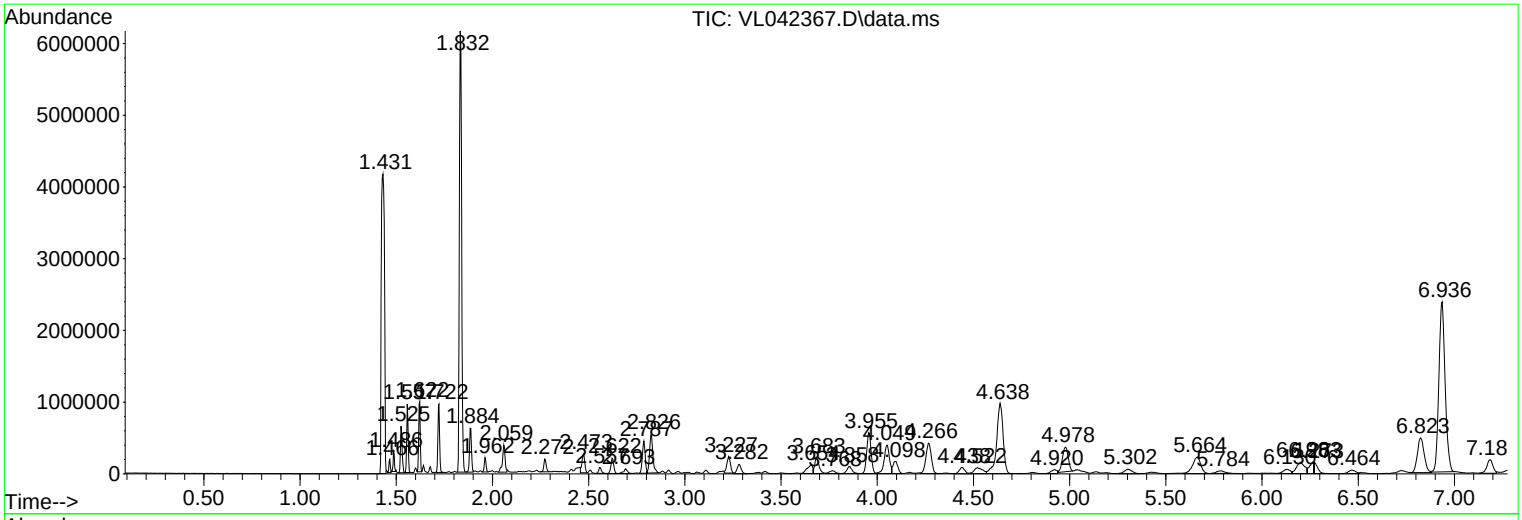
Sum of corrected areas: 67824491

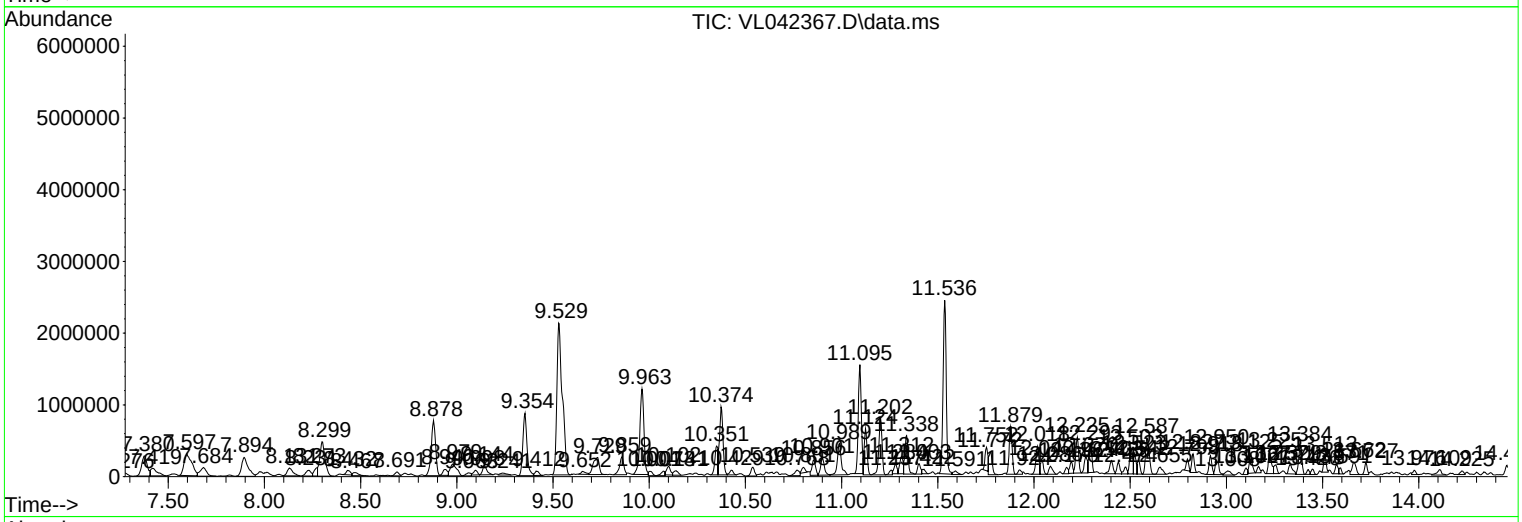
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042367.D
Acq On : 17 Apr 2025 20:38
Operator : SY/MD
Sample : Q1726-02
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

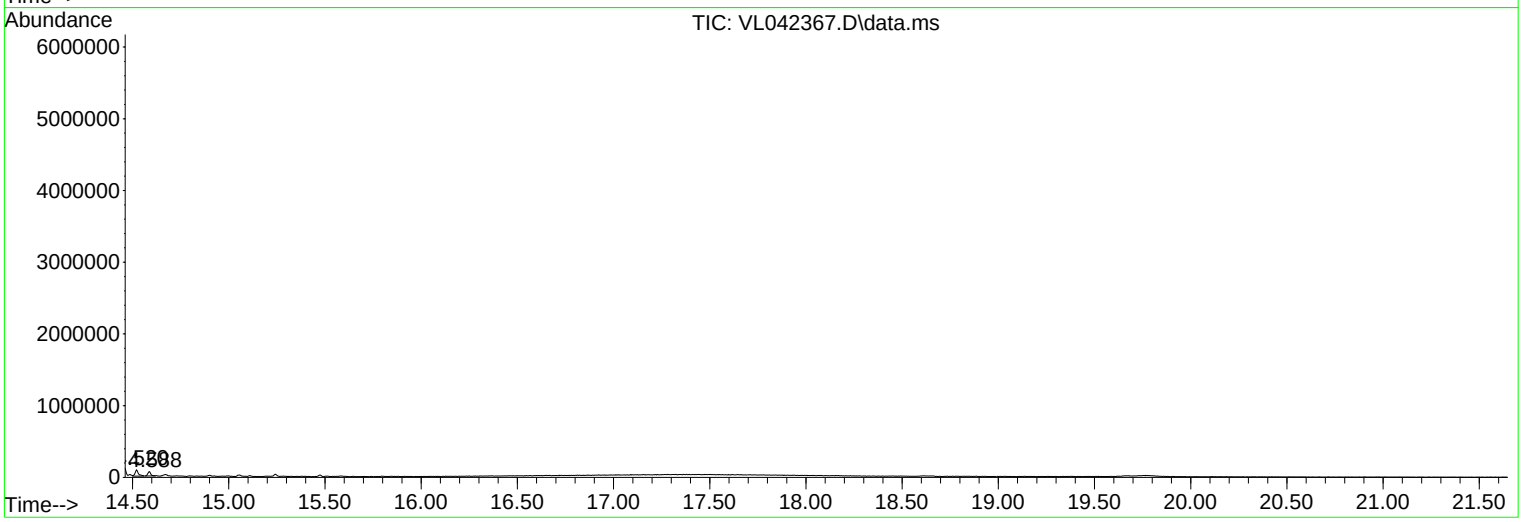
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025

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 : VL042367.D
Acq On : 17 Apr 2025 20:38
Operator : SY/MD
Sample : Q1726-02
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025

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

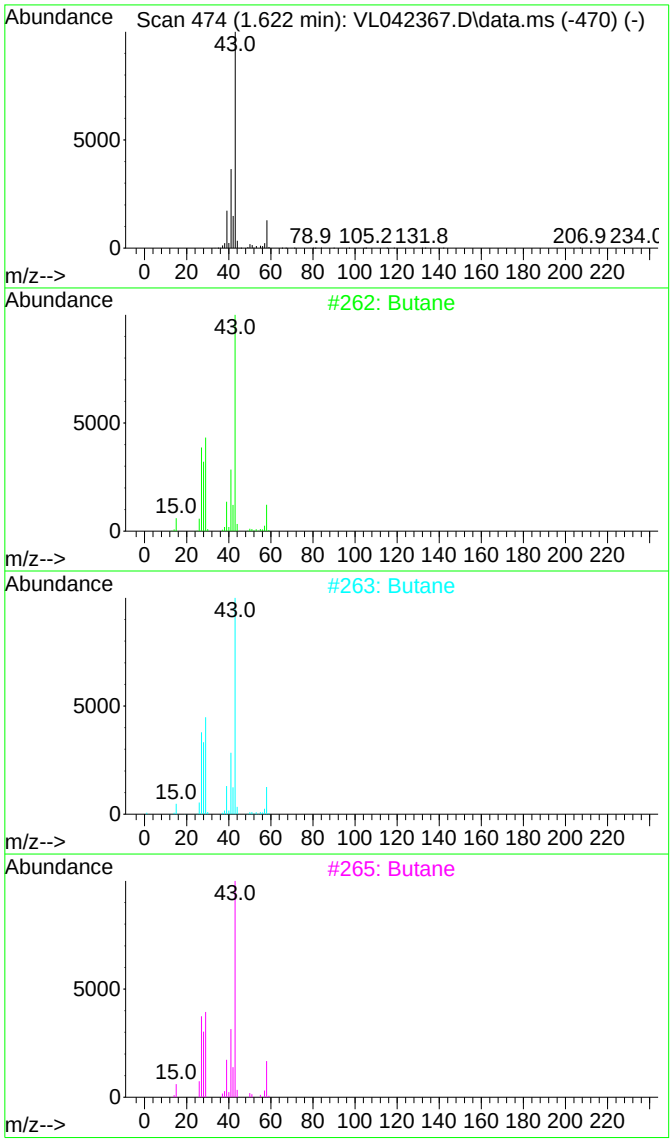
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

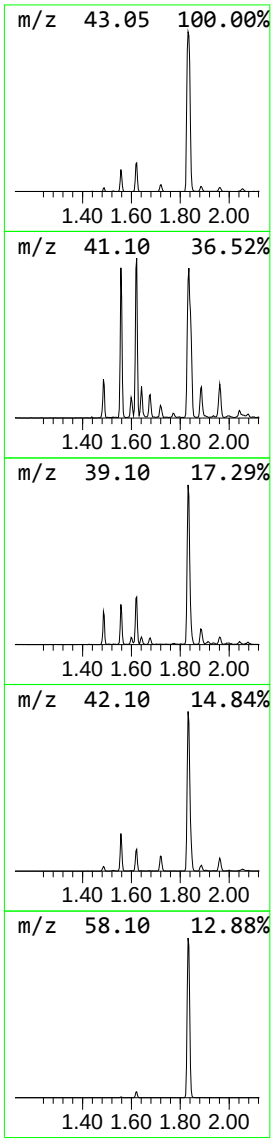
****

Peak Number 1 Butane Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.622	12.11 ppbv	539988	Bromochloromethane	2.787

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane	58	C4H10	000106-97-8	72
2	Butane	58	C4H10	000106-97-8	72
3	Butane	58	C4H10	000106-97-8	64
4	Butane	58	C4H10	000106-97-8	64
5	Propane, 1-nitro-	89	C3H7NO2	000108-03-2	28





Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042367.D
Acq On : 17 Apr 2025 20:38
Operator : SY/MD
Sample : Q1726-02
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025

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

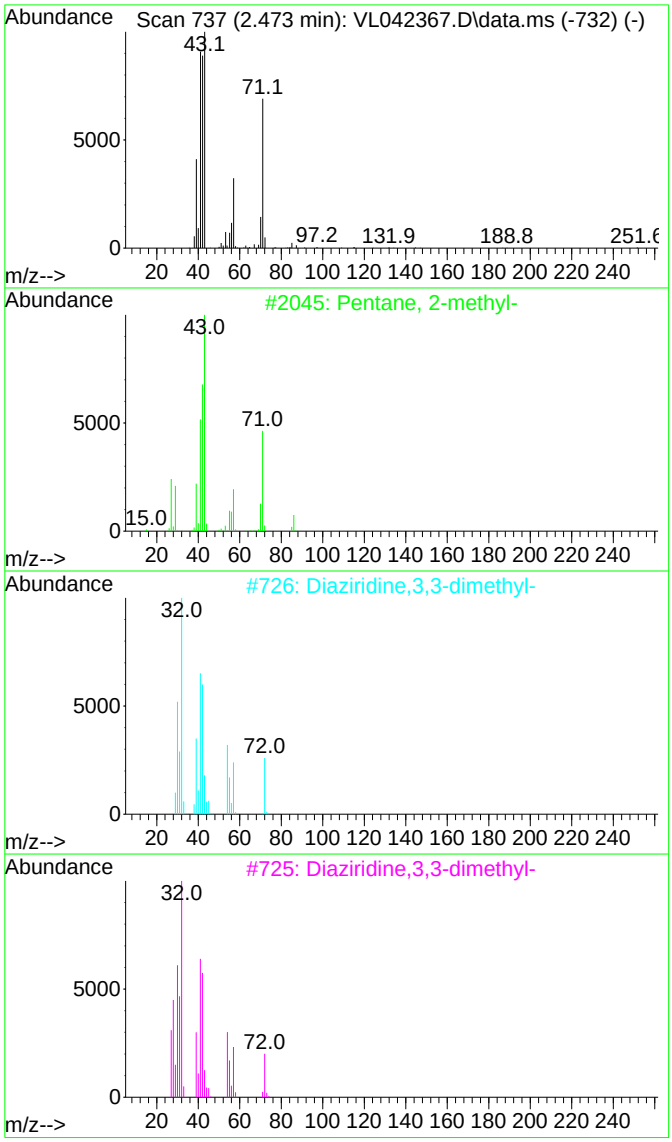
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

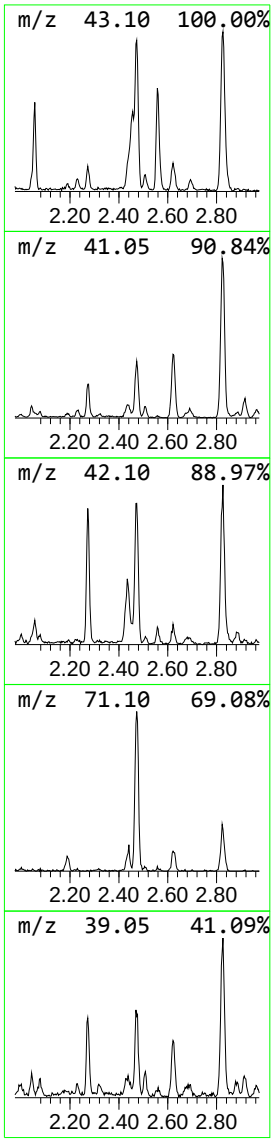
****

Peak Number 2 Pentane, 2-methyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.473	5.93 ppbv	264485	Bromochloromethane	2.787

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2-methyl-	86	C6H14	000107-83-5	59
2	Diaziridine,3,3-dimethyl-	72	C3H8N2	004901-76-2	40
3	Diaziridine,3,3-dimethyl-	72	C3H8N2	004901-76-2	40
4	Pentane, 2-methyl-	86	C6H14	000107-83-5	40
5	Pentane, 2-methyl-	86	C6H14	000107-83-5	37





Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042367.D
Acq On : 17 Apr 2025 20:38
Operator : SY/MD
Sample : Q1726-02
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025

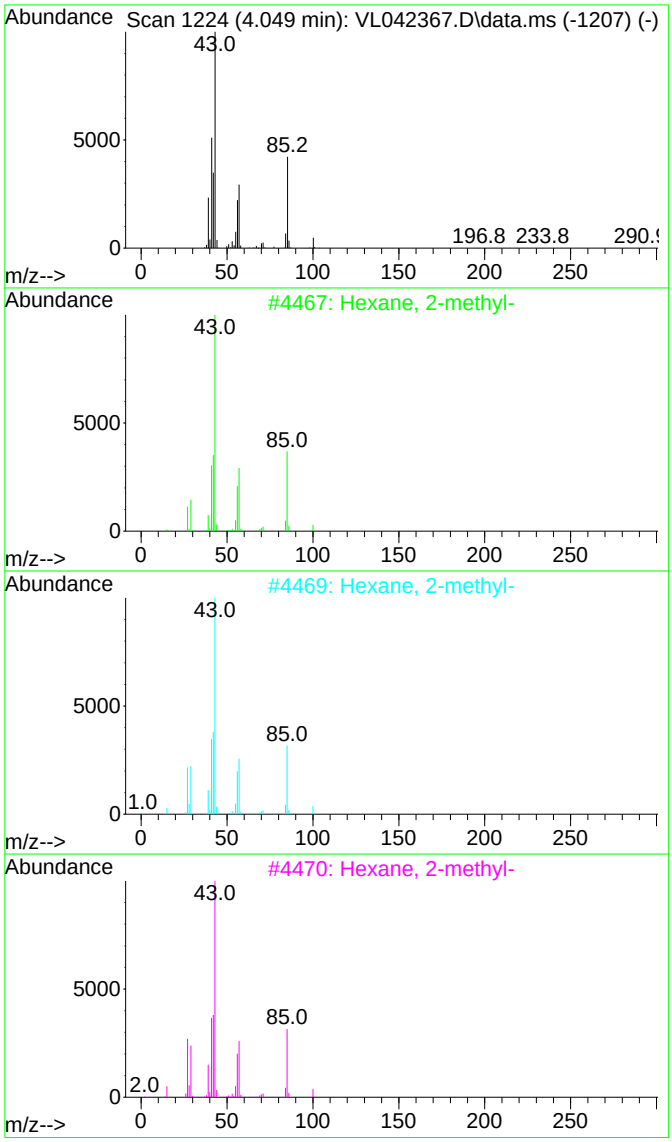
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

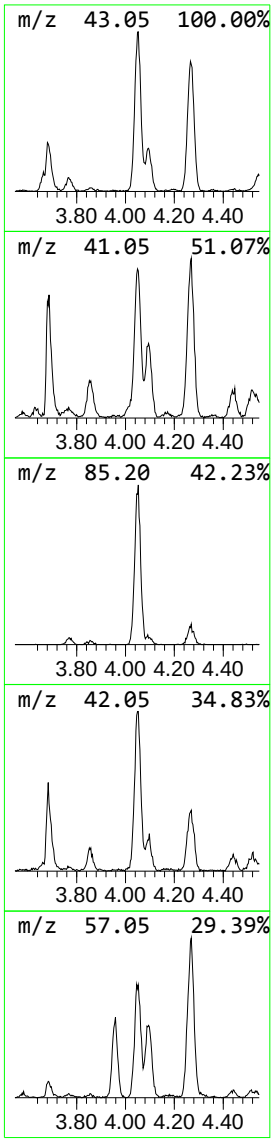
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.049	8.24 ppbv	749706	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	Heptane, 4,4-dimethyl-	128	C9H20	001068-19-5	59
5	2-Pentanone, 3-ethyl-3-methyl-	128	C8H16O	019780-65-5	53





Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042367.D
Acq On : 17 Apr 2025 20:38
Operator : SY/MD
Sample : Q1726-02
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025

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

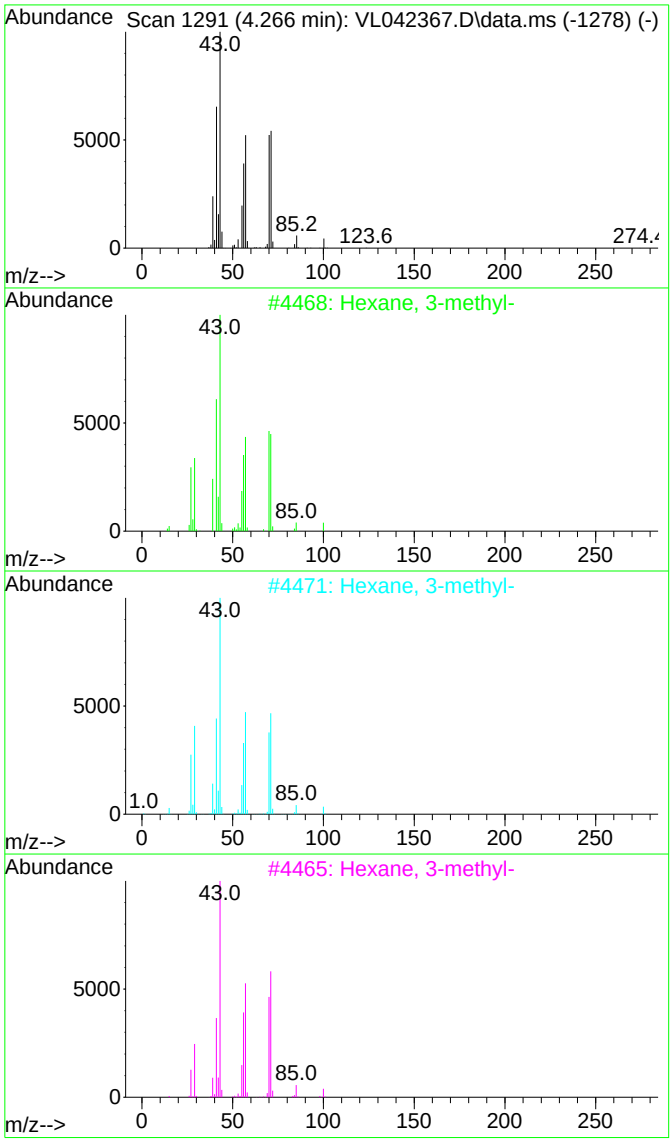
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

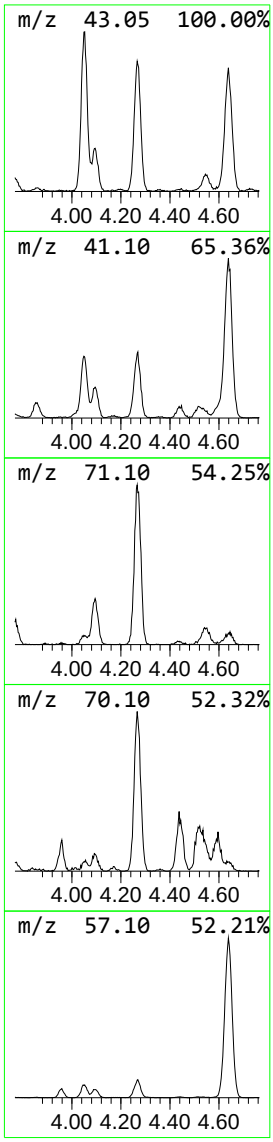
****

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.266	9.07 ppbv	825757	1,4-Difluorobenzene	3.959

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 3-methyl-	100	C7H16	000589-34-4	95
2	Hexane, 3-methyl-	100	C7H16	000589-34-4	94
3	Hexane, 3-methyl-	100	C7H16	000589-34-4	91
4	1-Pentanol, 2-methyl-	102	C6H14O	000105-30-6	78
5	Heptane	100	C7H16	000142-82-5	72





Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042367.D
Acq On : 17 Apr 2025 20:38
Operator : SY/MD
Sample : Q1726-02
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025

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

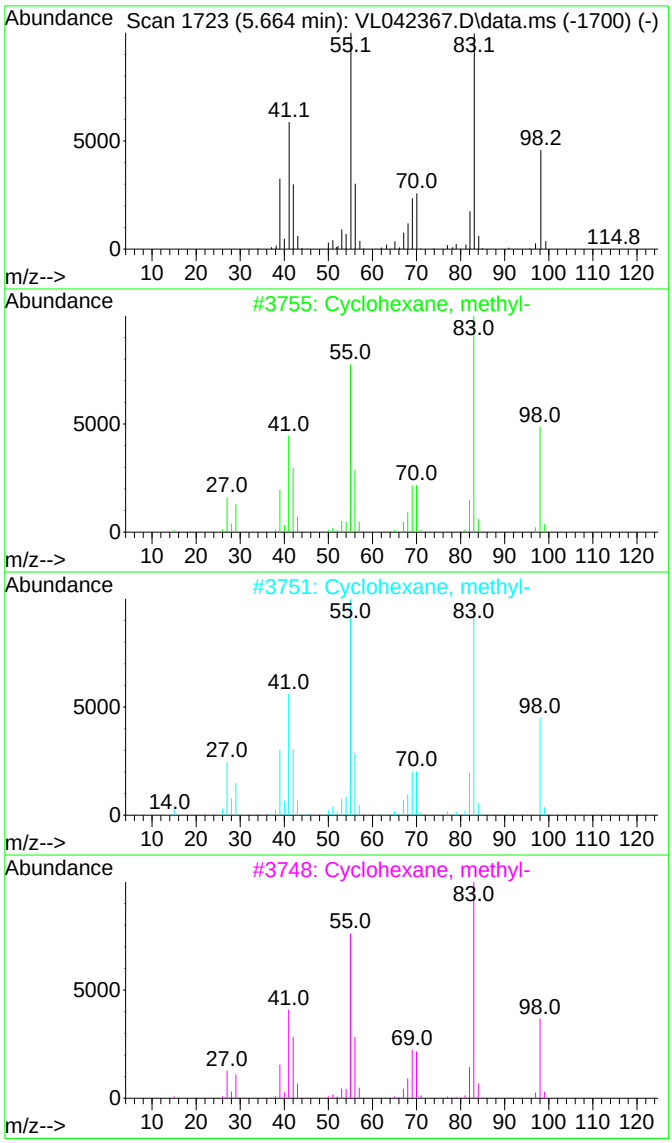
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

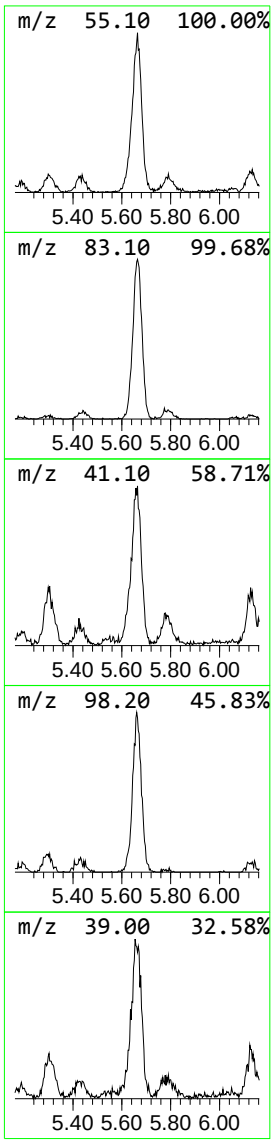
****

Peak Number 5 Cyclohexane, methyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.664	7.37 ppbv	671087	1,4-Difluorobenzene	3.959

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, methyl-	98	C7H14	000108-87-2	97
2	Cyclohexane, methyl-	98	C7H14	000108-87-2	97
3	Cyclohexane, methyl-	98	C7H14	000108-87-2	94
4	Cyclohexane, methyl-	98	C7H14	000108-87-2	93
5	1H-Pyrazole, 4,5-dihydro-4,5-dim...	98	C5H10N2	028019-94-5	59





Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042367.D
Acq On : 17 Apr 2025 20:38
Operator : SY/MD
Sample : Q1726-02
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025

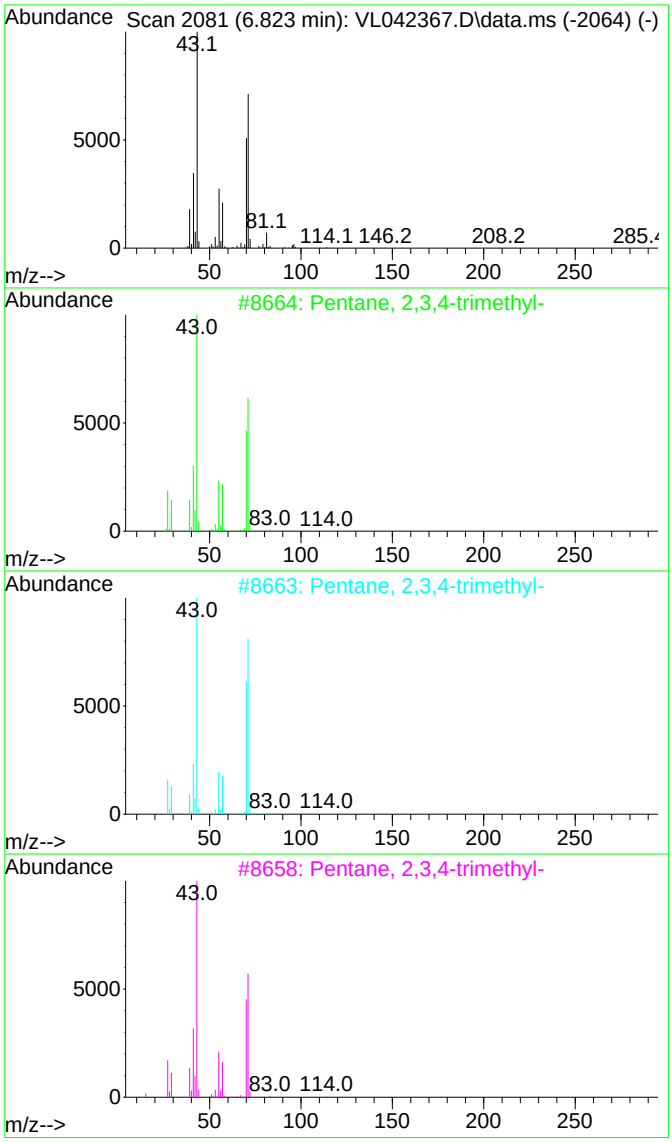
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

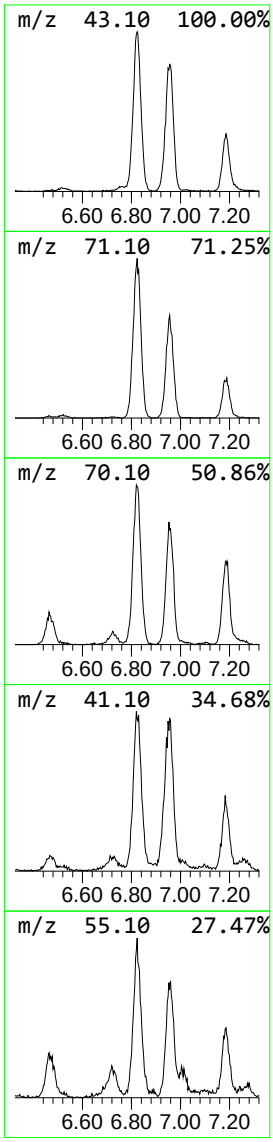
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 6 Pentane, 2,3,4-trimethyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.823	9.93 ppbv	1188520	Chlorobenzene-d5	8.878

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	90
2	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	90
3	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	90
4	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	87
5	2,4,4-Trimethyl-1-hexene	126	C9H18	051174-12-0	72





Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042367.D
Acq On : 17 Apr 2025 20:38
Operator : SY/MD
Sample : Q1726-02
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025

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

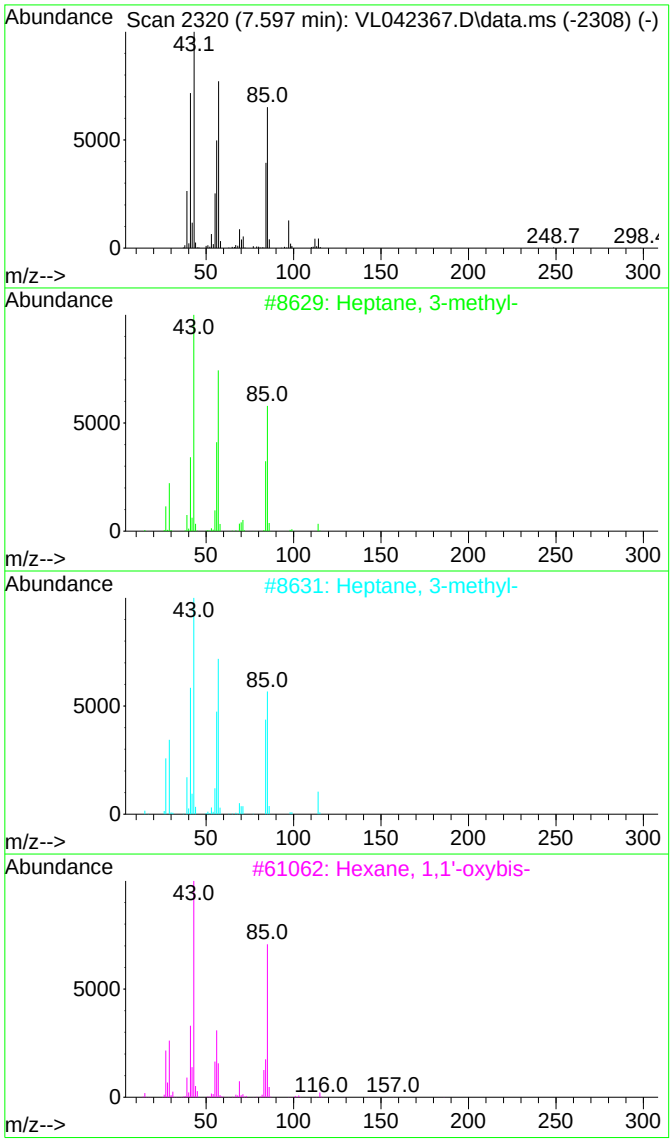
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

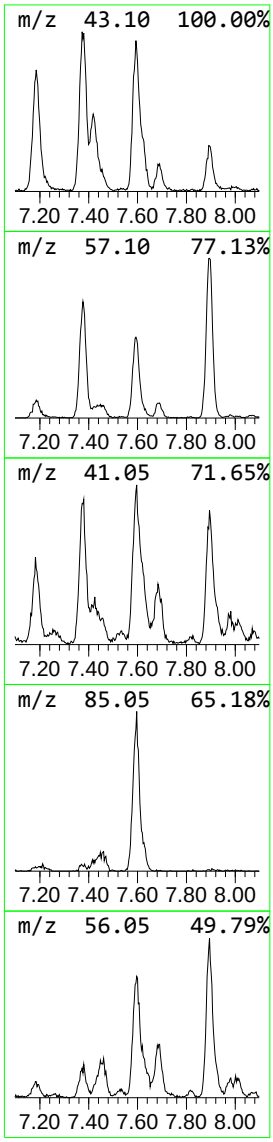
****

Peak Number 7 Heptane, 3-methyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.597	7.11 ppbv	851006	Chlorobenzene-d5	8.878

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptane, 3-methyl-	114	C8H18	000589-81-1	90
2	Heptane, 3-methyl-	114	C8H18	000589-81-1	90
3	Hexane, 1,1'-oxybis-	186	C12H26O	000112-58-3	53
4	Pentane, 3-ethyl-2,4-dimethyl-	128	C9H20	001068-87-7	50
5	Hexane, 3-ethyl-	114	C8H18	000619-99-8	50





Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042367.D
Acq On : 17 Apr 2025 20:38
Operator : SY/MD
Sample : Q1726-02
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025

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

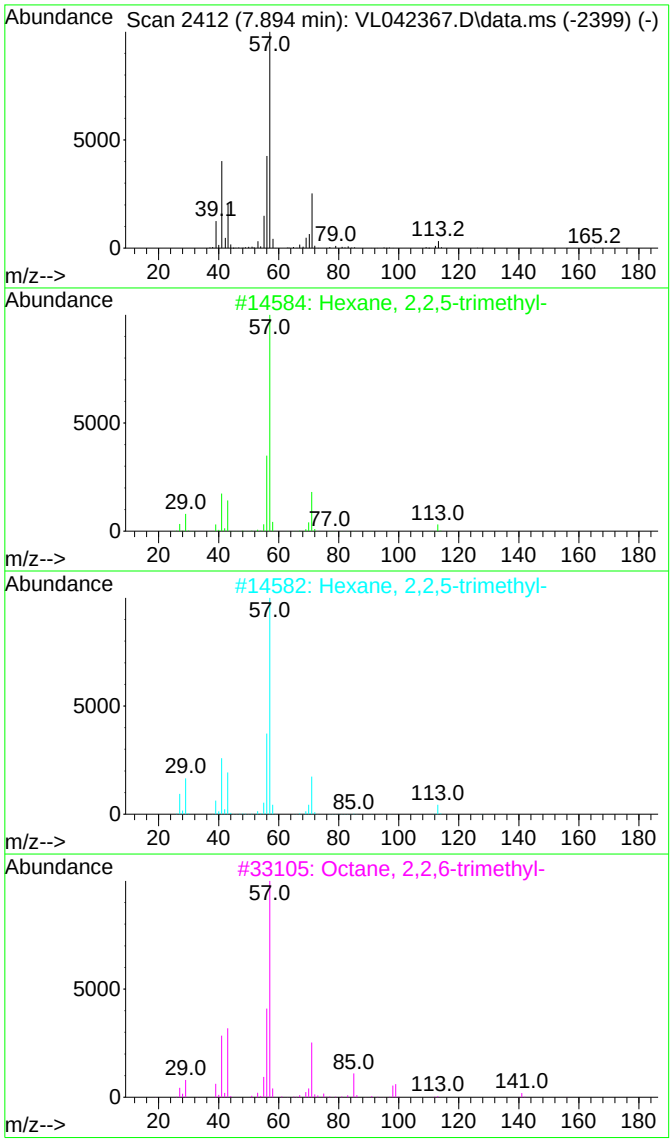
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

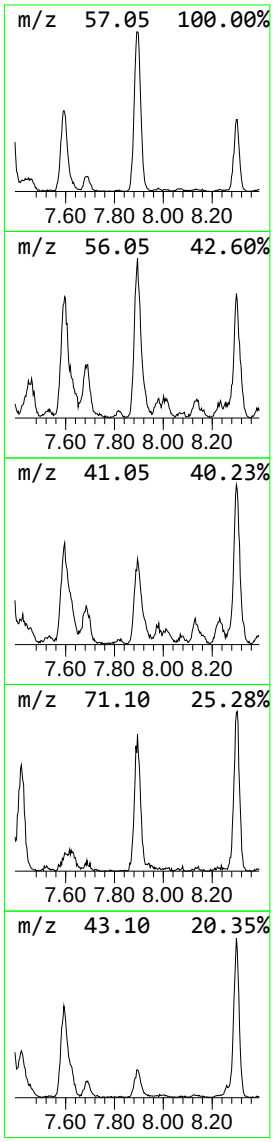
****

Peak Number 8 Hexane, 2,2,5-trimethyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.894	5.19 ppbv	621270	Chlorobenzene-d5	8.878

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	72
2	Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	64
3	Octane, 2,2,6-trimethyl-	156	C11H24	062016-28-8	56
4	Octane, 2,6-dimethyl-	142	C10H22	002051-30-1	53
5	Pentane, 2,2,4,4-tetramethyl-	128	C9H20	001070-87-7	50





Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042367.D
Acq On : 17 Apr 2025 20:38
Operator : SY/MD
Sample : Q1726-02
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025

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

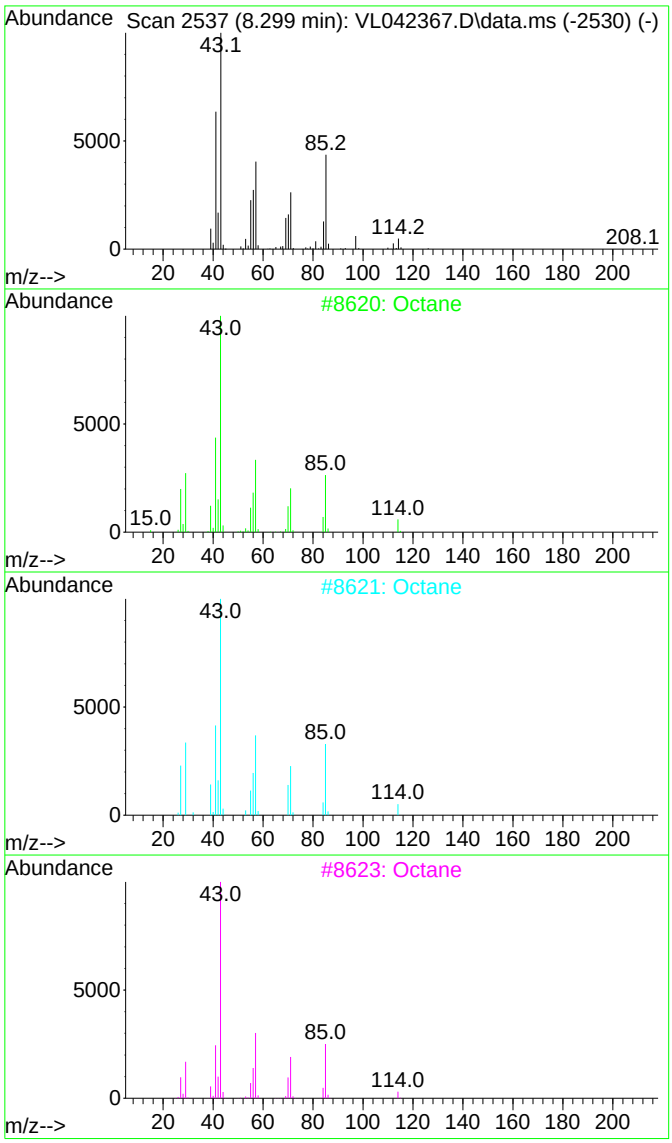
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

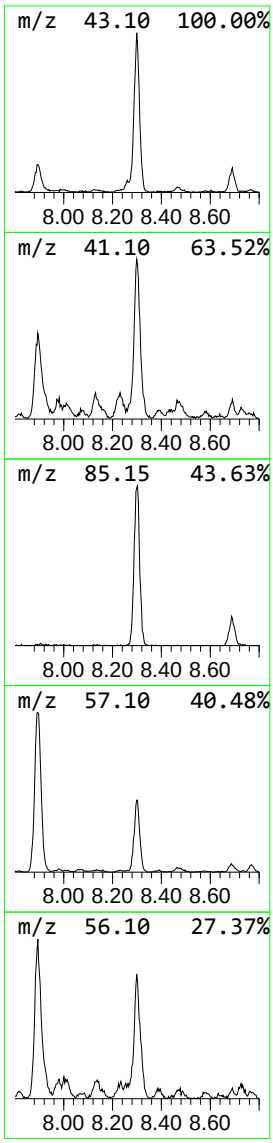
****

Peak Number 9 Octane Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.299	7.49 ppbv	896211	Chlorobenzene-d5	8.878

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octane	114	C8H18	000111-65-9	90
2	Octane	114	C8H18	000111-65-9	87
3	Octane	114	C8H18	000111-65-9	68
4	Heptane, 2,4-dimethyl-	128	C9H20	002213-23-2	64
5	Heptane, 2,4-dimethyl-	128	C9H20	002213-23-2	64





Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042367.D
Acq On : 17 Apr 2025 20:38
Operator : SY/MD
Sample : Q1726-02
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025

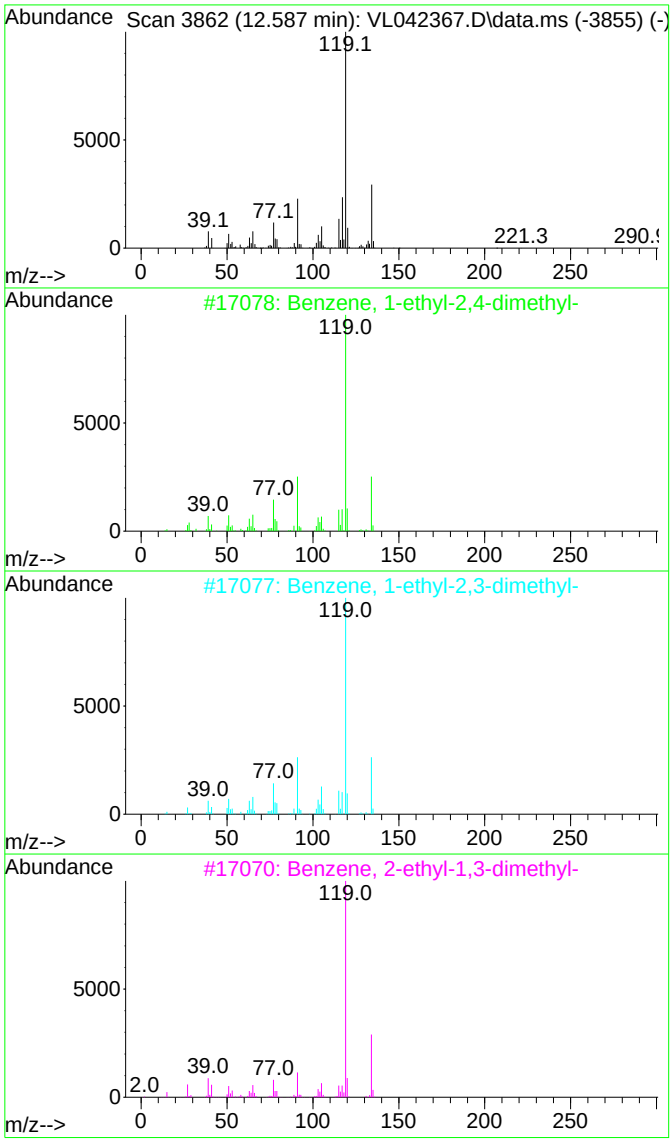
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

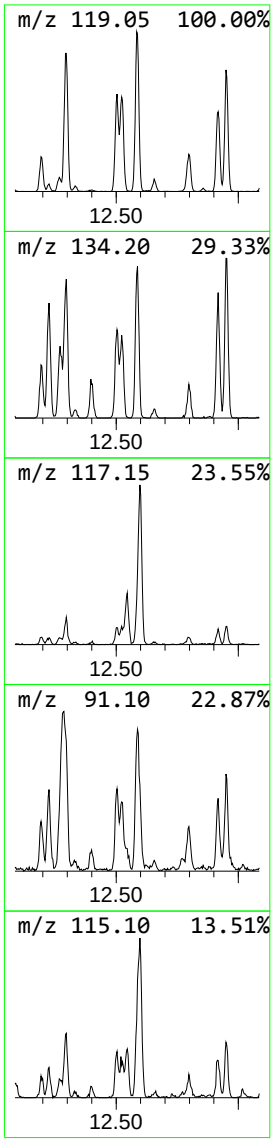
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 10 Benzene, 1-ethyl-2,4-dimethyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.587	5.73 ppbv	686015	Chlorobenzene-d5	8.878

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





Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042367.D
Acq On : 17 Apr 2025 20:38
Operator : SY/MD
Sample : Q1726-02
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025

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
Butane	1.622	12.1	ppbv	539988	1	2.787	445813	10.0
Pentane, 2-methyl-	2.473	5.9	ppbv	264485	1	2.787	445813	10.0
Hexane, 2-methyl-	4.049	8.2	ppbv	749706	2	3.959	910216	10.0
Hexane, 3-methyl-	4.266	9.1	ppbv	825757	2	3.959	910216	10.0
Cyclohexane, me...	5.664	7.4	ppbv	671087	2	3.959	910216	10.0
Pentane, 2,3,4-...	6.823	9.9	ppbv	1188520	3	8.878	1196500	10.0
Heptane, 3-methyl-	7.597	7.1	ppbv	851006	3	8.878	1196500	10.0
Hexane, 2,2,5-t...	7.894	5.2	ppbv	621270	3	8.878	1196500	10.0
Octane	8.299	7.5	ppbv	896211	3	8.878	1196500	10.0
Benzene, 1-ethy...	12.587	5.7	ppbv	686015	3	8.878	1196500	10.0

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

Report of Analysis

Client:	Woodard & Curran	Date Collected:	04/01/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	IA-B2-6-03312025DL	SDG No.:	Q1726
Lab Sample ID:	Q1726-02DL	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
VL042377.D	20		04/18/25 02:01	VL041725

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	4.20	20.8	UD	20.8	49.5	ug/m3
64-17-5	Ethanol	280	528	DQ	12.1	18.8	ug/m3
74-87-3	Chloromethane	6.70	13.8	JD	4.13	20.6	ug/m3
75-01-4	Vinyl Chloride	0.28	0.72	UD	0.72	1.53	ug/m3
74-83-9	Bromomethane	2.80	10.9	UD	10.9	38.8	ug/m3
75-00-3	Chloroethane	3.40	8.97	UD	8.97	26.4	ug/m3
109-99-9	Tetrahydrofuran	2.60	7.67	UD	7.67	29.5	ug/m3
75-69-4	Trichlorofluoromethane	3.20	18.0	UD	18.0	56.2	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	3.20	24.5	UD	24.5	76.7	ug/m3
76-14-2	Dichlorotetrafluoroethane	1.80	12.6	UD	12.6	69.9	ug/m3
593-60-2	Bromoethene	2.40	10.5	UD	10.5	43.7	ug/m3
75-65-0	tert-Butyl alcohol	3.80	11.5	UD	11.5	30.3	ug/m3
142-82-5	Heptane	7.50	30.7	JD	9.02	41.0	ug/m3
67-63-0	Isopropyl Alcohol	30.4	74.7	D	3.44	24.6	ug/m3
75-35-4	1,1-Dichloroethene	2.80	11.1	UD	11.1	39.6	ug/m3
67-64-1	Acetone	330	784	ED	11.4	23.8	ug/m3
75-15-0	Carbon Disulfide	3.20	9.97	UD	9.97	31.1	ug/m3
1634-04-4	Methyl tert-Butyl Ether	2.40	8.65	UD	8.65	36.0	ug/m3
75-09-2	Methylene Chloride	3.80	13.2	UD	13.2	34.7	ug/m3
156-60-5	trans-1,2-Dichloroethene	3.80	15.1	UD	15.1	39.6	ug/m3
75-34-3	1,1-Dichloroethane	2.60	10.5	UD	10.5	40.5	ug/m3
110-82-7	Cyclohexane	4.40	15.2	UD	15.2	34.4	ug/m3
78-93-3	2-Butanone	2.40	7.08	JD	7.08	29.5	ug/m3
56-23-5	Carbon Tetrachloride	0.22	1.38	UD	1.38	3.77	ug/m3
156-59-2	cis-1,2-Dichloroethene	1.80	7.14	UD	7.14	39.6	ug/m3
67-66-3	Chloroform	1.70	8.30	UD	8.30	48.8	ug/m3
71-55-6	1,1,1-Trichloroethane	0.19	1.04	UD	1.04	3.27	ug/m3
540-84-1	2,2,4-Trimethylpentane	15.6	72.9	D	9.34	46.7	ug/m3
71-43-2	Benzene	2.50	7.99	JD	5.43	31.9	ug/m3
107-06-2	1,2-Dichloroethane	1.80	7.29	UD	7.29	40.5	ug/m3
79-01-6	Trichloroethene	0.34	1.83	UD	1.83	3.22	ug/m3
78-87-5	1,2-Dichloropropane	2.20	10.2	UD	10.2	46.2	ug/m3
75-27-4	Bromodichloromethane	1.50	10.1	UD	10.1	67.0	ug/m3
108-10-1	4-Methyl-2-Pentanone	1.90	7.79	UD	7.79	41.0	ug/m3
108-88-3	Toluene	45.3	171	D	8.29	37.7	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:	04/01/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	IA-B2-6-03312025DL	SDG No.:	Q1726
Lab Sample ID:	Q1726-02DL	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
VL042377.D	20		04/18/25 02:01	VL041725

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	1.20	5.45	UD	5.45	45.4	ug/m3
10061-01-5	cis-1,3-Dichloropropene	1.30	5.90	UD	5.90	45.4	ug/m3
79-00-5	1,1,2-Trichloroethane	1.40	7.64	UD	7.64	54.6	ug/m3
124-48-1	Dibromochloromethane	1.30	11.1	UD	11.1	85.2	ug/m3
106-93-4	1,2-Dibromoethane	1.40	10.8	UD	10.8	15.4	ug/m3
127-18-4	Tetrachloroethene	0.30	2.03	UD	2.03	4.07	ug/m3
108-90-7	Chlorobenzene	1.50	6.91	UD	6.91	46.0	ug/m3
100-41-4	Ethyl Benzene	9.10	39.5	JD	10.4	43.4	ug/m3
179601-23-1	m/p-Xylene	33.8	147	D	18.2	86.9	ug/m3
95-47-6	o-Xylene	13.4	58.2	D	10.4	43.4	ug/m3
100-42-5	Styrene	2.20	9.37	UD	9.37	42.6	ug/m3
75-25-2	Bromoform	1.10	11.4	UD	11.4	103	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	0.22	1.51	UD	1.51	4.12	ug/m3
95-49-8	2-Chlorotoluene	2.20	11.4	UD	11.4	51.8	ug/m3
108-67-8	1,3,5-Trimethylbenzene	5.40	26.6	JD	10.8	49.2	ug/m3
95-63-6	1,2,4-Trimethylbenzene	17.1	84.1	D	7.87	49.2	ug/m3
541-73-1	1,3-Dichlorobenzene	1.60	9.62	UD	9.62	60.1	ug/m3
106-46-7	1,4-Dichlorobenzene	1.10	6.61	UD	6.61	60.1	ug/m3
95-50-1	1,2-Dichlorobenzene	1.50	9.02	UD	9.02	60.1	ug/m3
120-82-1	1,2,4-Trichlorobenzene	1.70	12.6	UD	12.6	74.2	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	1.70	18.1	UD	18.1	107	ug/m3
106-99-0	1,3-Butadiene	2.60	5.75	UD	5.75	22.1	ug/m3
91-20-3	Naphthalene	1.50	7.86	UD	7.86	10.5	ug/m3
622-96-8	4-Ethyltoluene	4.70	23.1	JD	11.8	49.2	ug/m3
110-54-3	Hexane	2.20	7.75	UD	7.75	35.2	ug/m3
107-05-1	Allyl Chloride	3.00	9.39	UD	9.39	31.3	ug/m3
123-91-1	1,4-Dioxane	4.20	15.1	UD	15.1	36.0	ug/m3
80-62-6	Methyl Methacrylate	1.70	6.96	UD	6.96	41.0	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	10.4			70 (65) - 130 (135)	104%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	99400		2.784			
540-36-3	1,4-Difluorobenzene	273000		3.955			
3114-55-4	Chlorobenzene-d5	238000		8.878			

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

Report of Analysis

Client:	Woodard & Curran	Date Collected:	04/01/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	IA-B2-6-03312025DL	SDG No.:	Q1726
Lab Sample ID:	Q1726-02DL	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
VL042377.D	20		04/18/25 02:01	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 : VL042377.D
Acq On : 18 Apr 2025 02:01
Operator : SY/MD
Sample : Q1726-02DL 20X
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 18 04:40:09 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-B2-6-03312025DL

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	99418	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.955	114	272592	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.878	117	237645	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.370	95	202954	10.393	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 103.900%				
Target Compounds							Qvalue
4) Chloromethane	1.531	50	2346	0.337	ppbv		99
9) Propene	1.486	41	1509m	0.198	ppbv		
10) Heptane	4.975	43	8029m	0.375	ppbv		
13) Ethanol	1.719	45	17233	14.234	ppbv		84
15) Acetone	1.832	43	269648	16.568	ppbv		98
19) Isopropyl Alcohol	1.884	45	13751	1.521	ppbv	#	1
30) Cyclohexane	3.852	84	1417m	0.108	ppbv		
34) 2-Butanone	2.560	43	2582	0.120	ppbv	#	88
36) Benzene	3.651	78	3607m	0.123	ppbv		
44) 2,2,4-Trimethylpentane	4.635	57	39733	0.782	ppbv	#	90
53) Toluene	6.927	91	79886	2.264	ppbv		100
58) Ethyl Benzene	9.348	91	21503	0.457	ppbv		98
59) m/p-Xylene	9.529	91	64193m	1.692	ppbv		
60) o-Xylene	9.959	91	25512	0.668	ppbv		97
64) n-propylbenzene	10.982	120	2250m	0.160	ppbv		
72) 4-Ethyltoluene	11.121	105	10921	0.234	ppbv	#	64
73) 1,3,5-Trimethylbenzene	11.202	105	11199	0.272	ppbv	#	84
74) 1,2,4-Trimethylbenzene	11.532	105	41057	0.853	ppbv	#	66

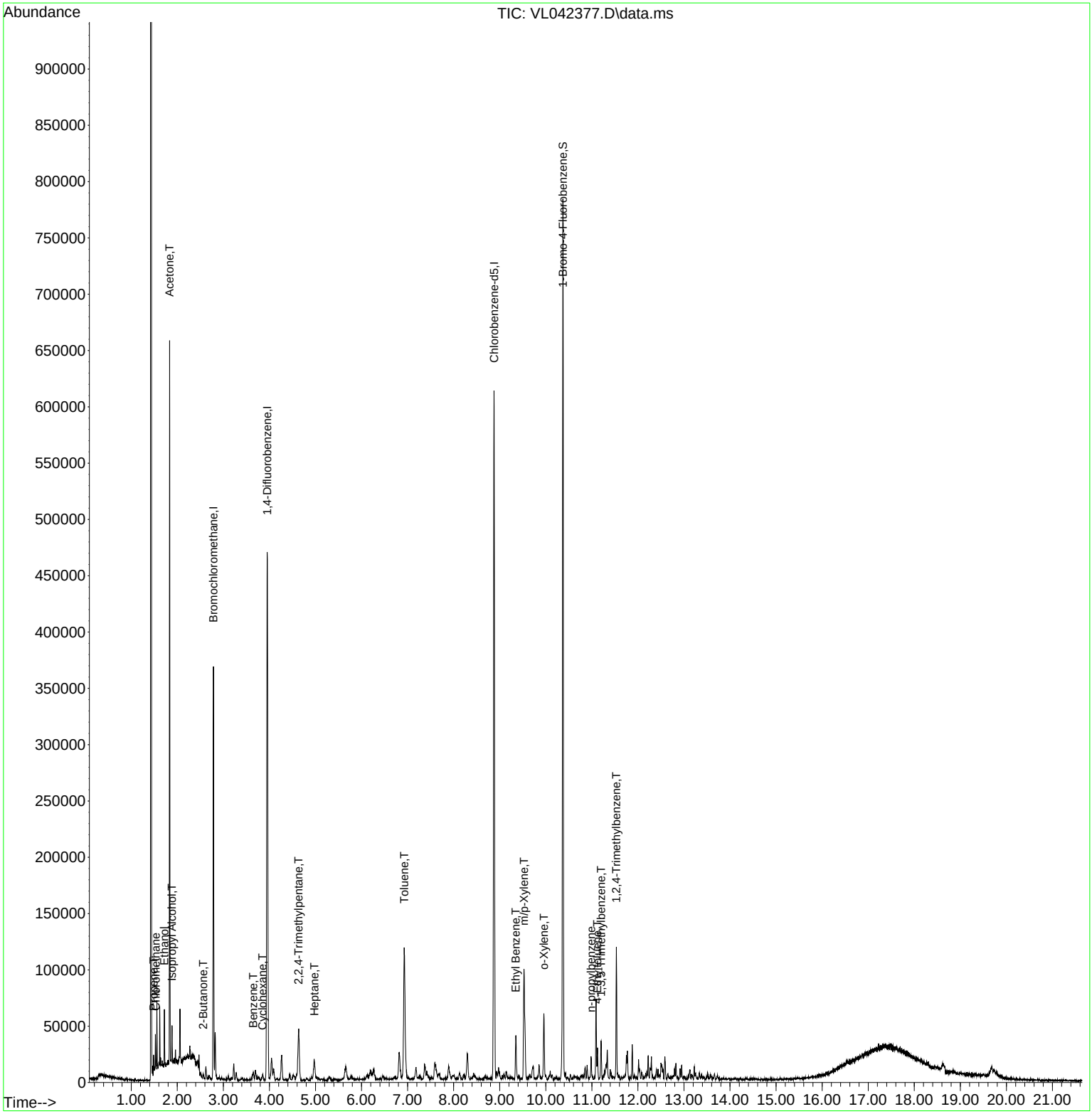
(#) = qualifier out of range (m) = manual integration (+) = signals summed

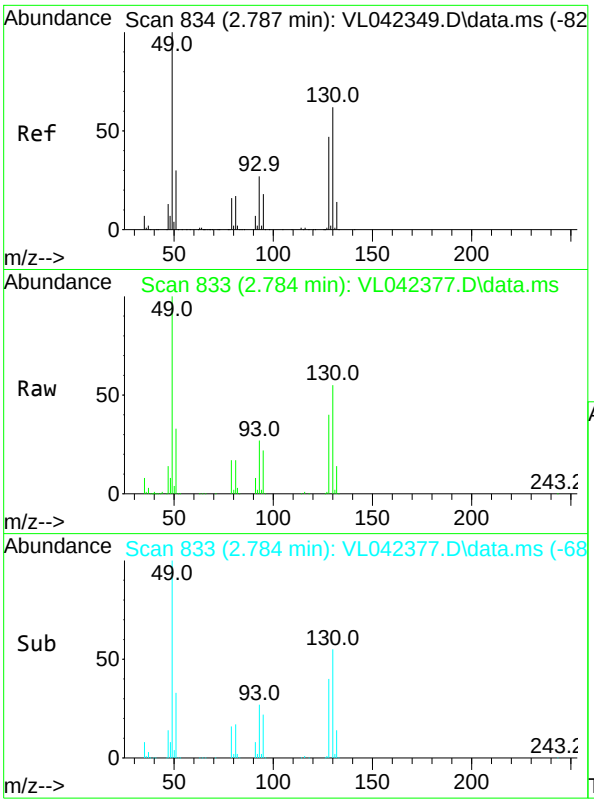
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042377.D
Acq On : 18 Apr 2025 02:01
Operator : SY/MD
Sample : Q1726-02DL 20X
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 18 04:40:09 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-B2-6-03312025DL

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

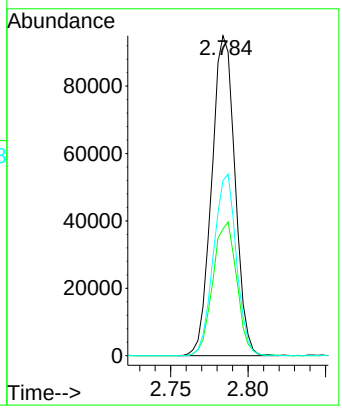




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 8
Delta R.T. -0.003 min
Lab File: VL042377.D
Acq: 18 Apr 2025 02:01

Tgt Ion: 49 Resp: 9941

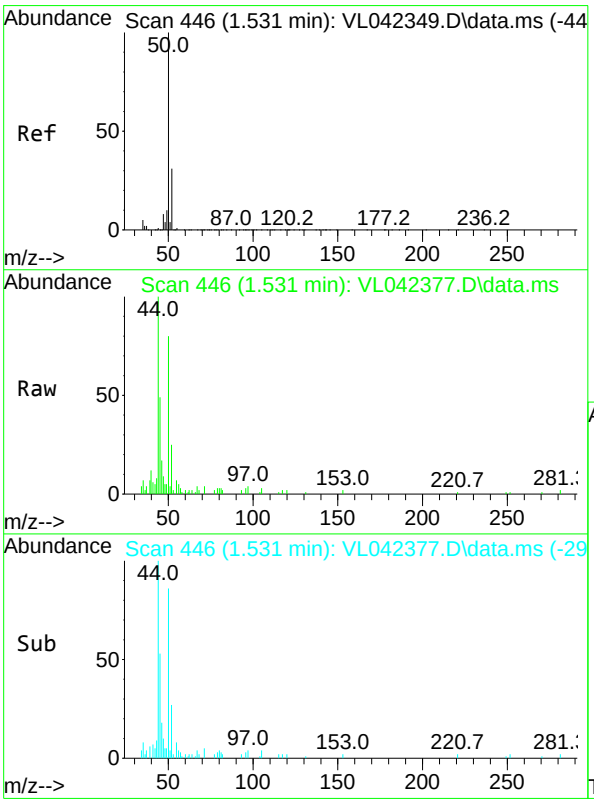
Ion	Ratio	Lower	Upper
49	100		
128	42.9	22.8	68.4
130	55.5	29.3	88.0



Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025DL

Manual Integrations
APPROVED

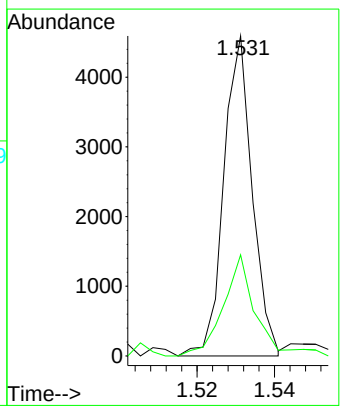
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

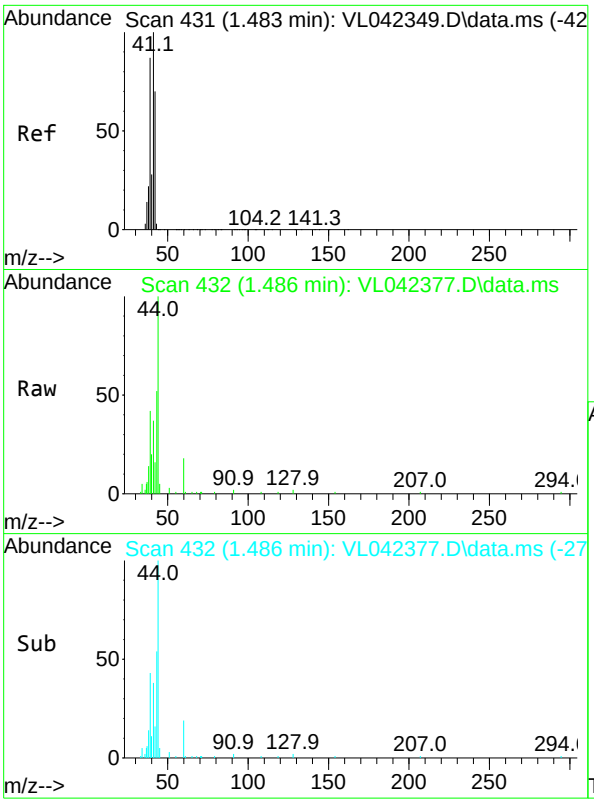


#4
Chloromethane
Concen: 0.337 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL042377.D
Acq: 18 Apr 2025 02:01

Tgt Ion: 50 Resp: 2346

Ion	Ratio	Lower	Upper
50	100		
52	31.6	24.7	37.1

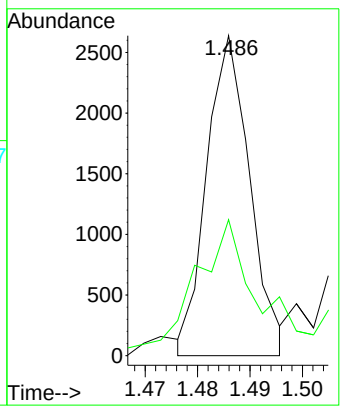




#9
Propene
Concen: 0.198 ppbv m
RT: 1.486 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL042377.D
Acq: 18 Apr 2025 02:01

Tgt Ion: 41 Resp: 150

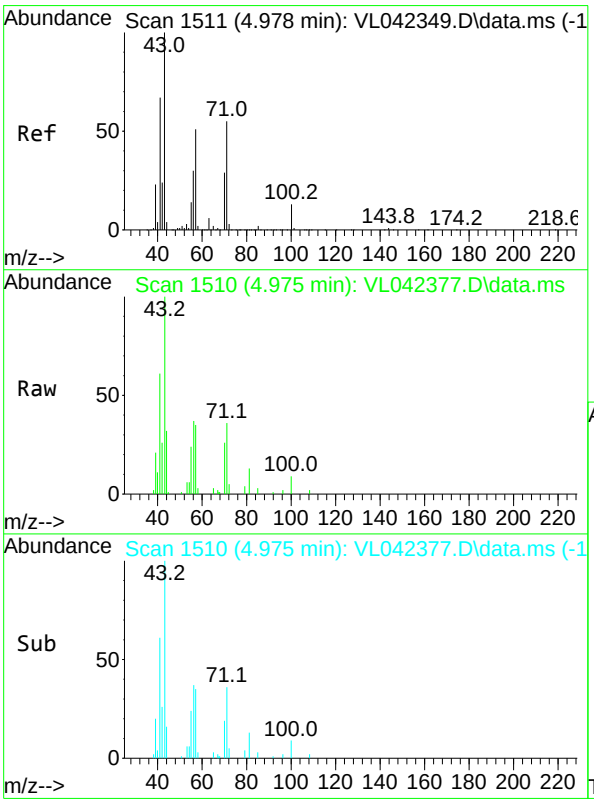
Ion	Ratio	Lower	Upper
41	100		
42	221.3	56.2	84.4



Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025DL

Manual Integrations
APPROVED

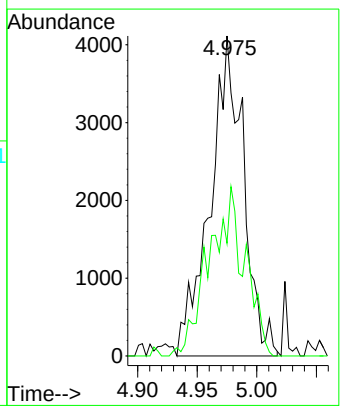
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

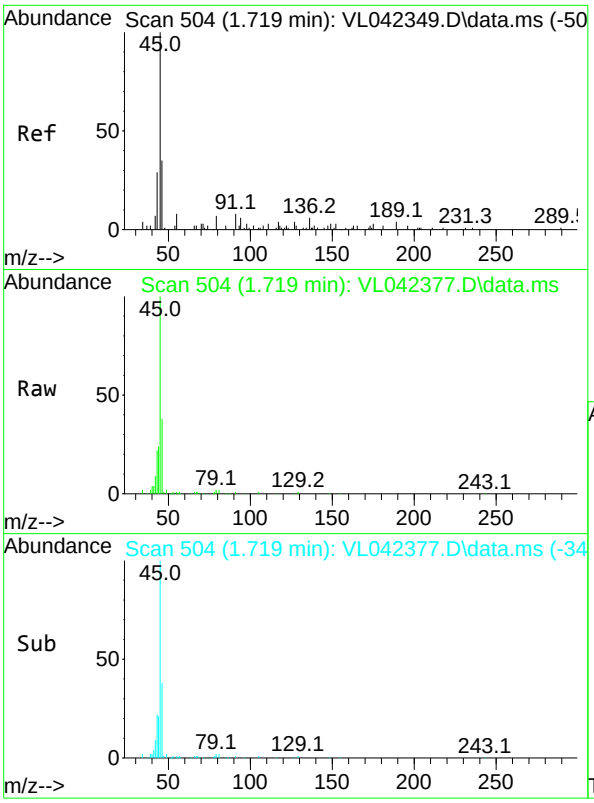


#10
Heptane
Concen: 0.375 ppbv m
RT: 4.975 min Scan# 1510
Delta R.T. -0.003 min
Lab File: VL042377.D
Acq: 18 Apr 2025 02:01

Tgt Ion: 43 Resp: 8029

Ion	Ratio	Lower	Upper
43	100		
57	57.0	39.9	59.9

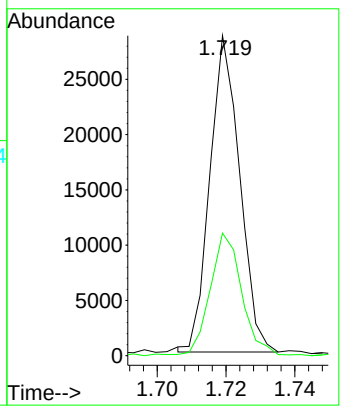




#13
Ethanol
Concen: 14.234 ppbv
RT: 1.719 min Scan# 5(
Delta R.T. 0.000 min
Lab File: VL042377.D
Acq: 18 Apr 2025 02:01

Tgt Ion: 45 Resp: 1723

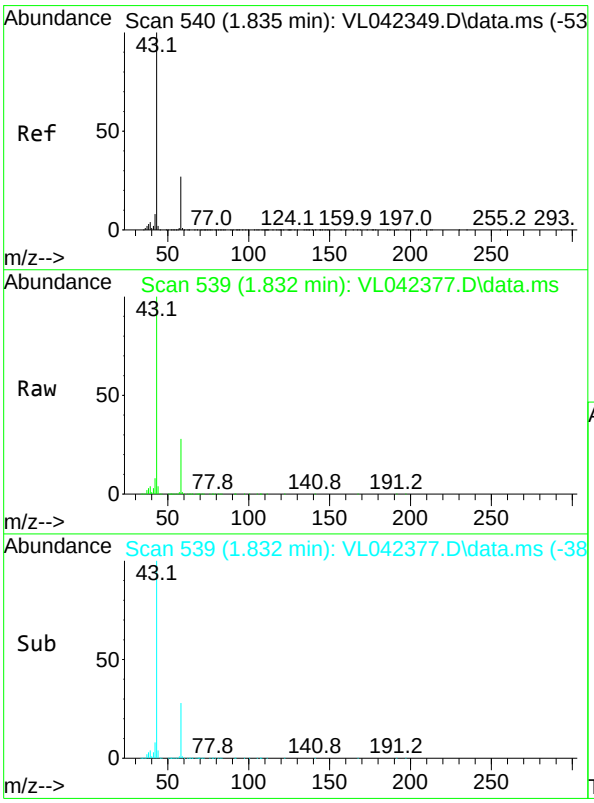
Ion	Ratio	Lower	Upper
45	100		
46	43.5	21.9	87.7



Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025DL

Manual Integrations
APPROVED

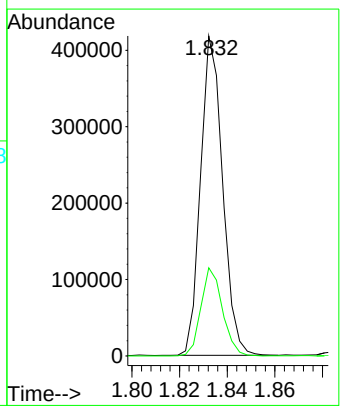
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

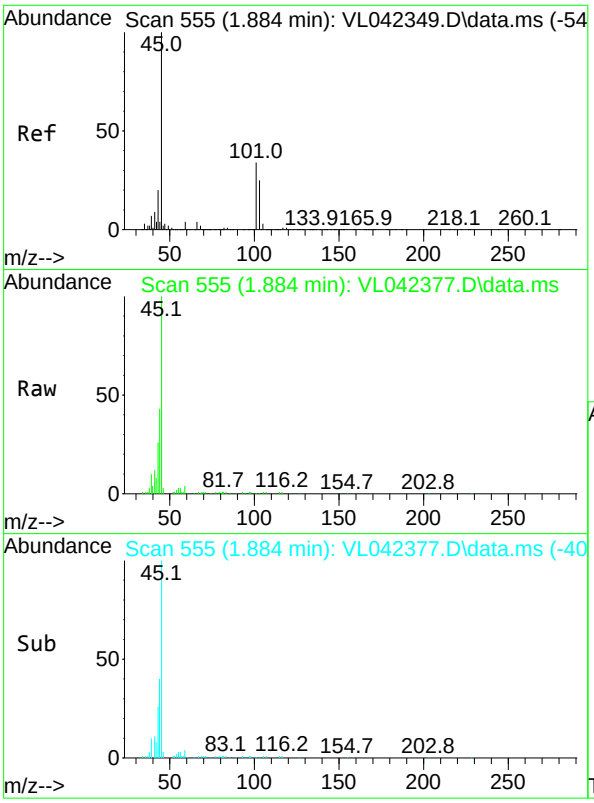


#15
Acetone
Concen: 16.568 ppbv
RT: 1.832 min Scan# 539
Delta R.T. -0.003 min
Lab File: VL042377.D
Acq: 18 Apr 2025 02:01

Tgt Ion: 43 Resp: 269648

Ion	Ratio	Lower	Upper
43	100		
58	27.0	22.4	33.6





#19
Isopropyl Alcohol
Concen: 1.521 ppbv
RT: 1.884 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL042377.D
Acq: 18 Apr 2025 02:01

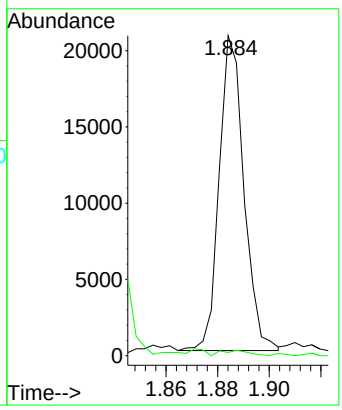
Tgt Ion: 45 Resp: 1375

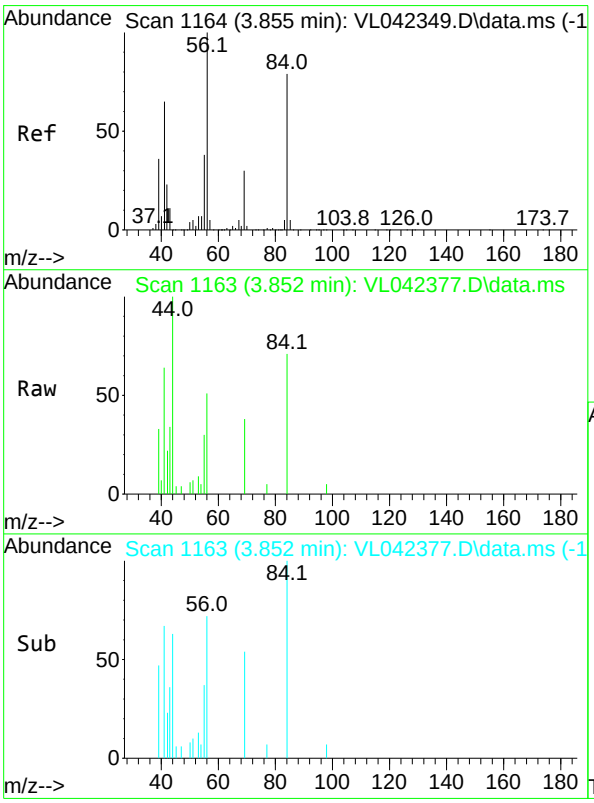
Ion	Ratio	Lower	Upper
45	100		
58	530.4	34.5	51.7#

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025DL

Manual Integrations
APPROVED

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

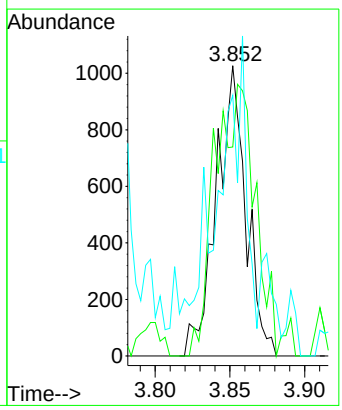


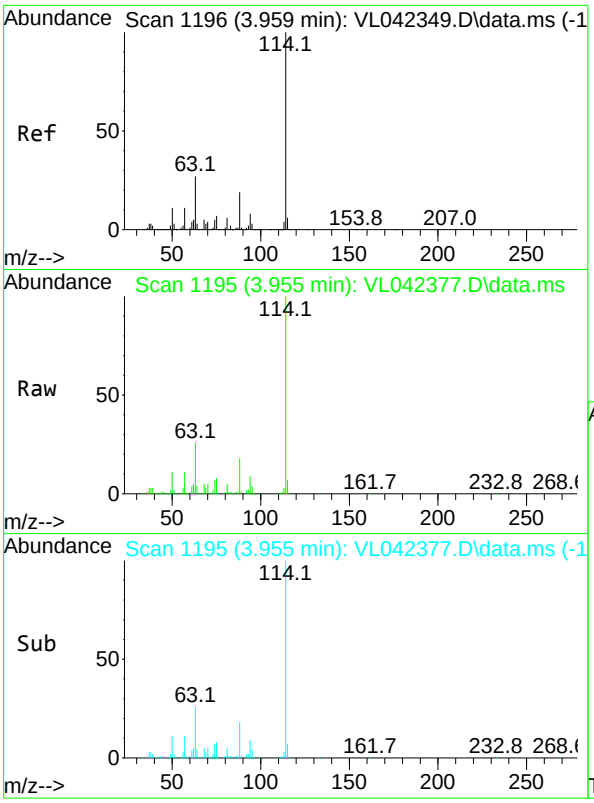


#30
Cyclohexane
Concen: 0.108 ppbv m
RT: 3.852 min Scan# 1163
Delta R.T. -0.003 min
Lab File: VL042377.D
Acq: 18 Apr 2025 02:01

Tgt Ion: 84 Resp: 1417

Ion	Ratio	Lower	Upper
84	100		
56	131.1	101.0	151.4
41	117.7	67.4	101.0#





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.955 min Scan# 1
Delta R.T. -0.003 min
Lab File: VL042377.D
Acq: 18 Apr 2025 02:01

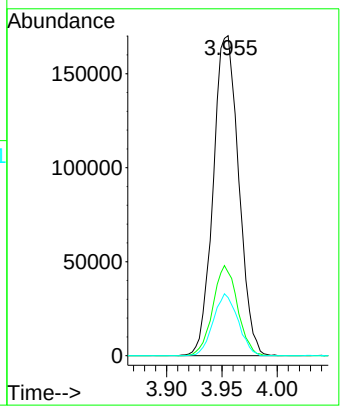
Tgt Ion:114 Resp: 27259

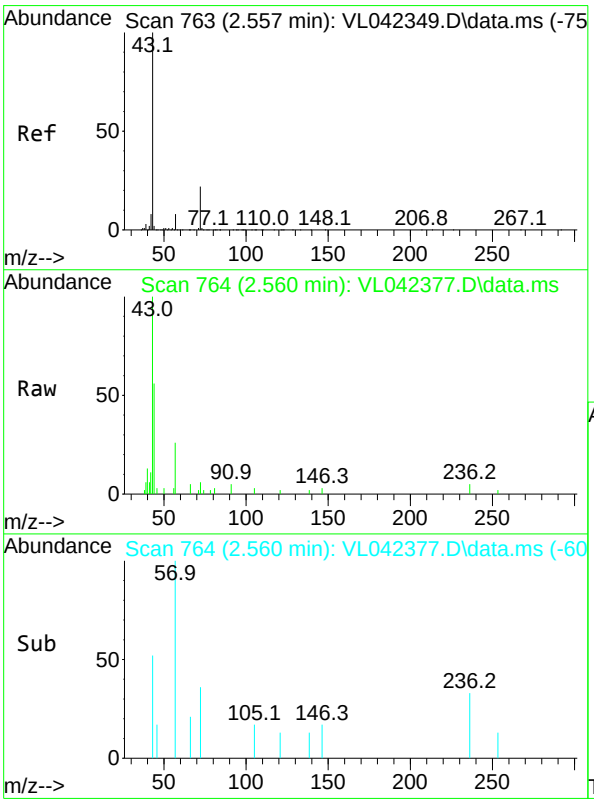
Ion	Ratio	Lower	Upper
114	100		
63	27.3	21.8	32.6
88	18.8	15.5	23.3

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025DL

Manual Integrations
APPROVED

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

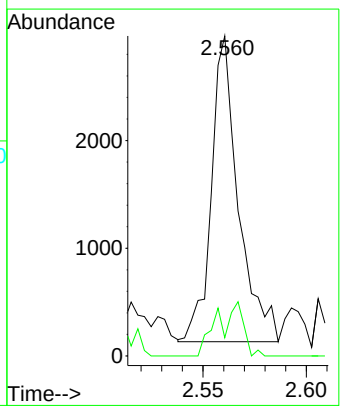


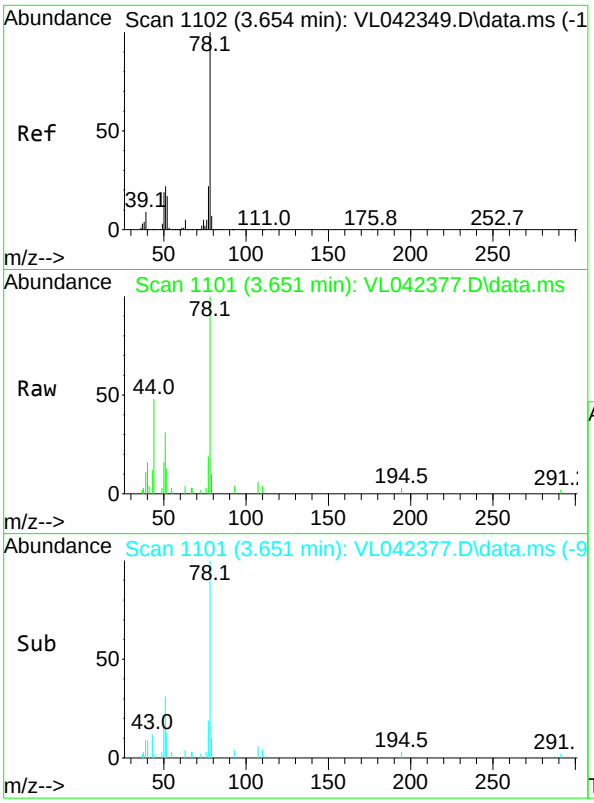


#34
2-Butanone
Concen: 0.120 ppbv
RT: 2.560 min Scan# 764
Delta R.T. 0.003 min
Lab File: VL042377.D
Acq: 18 Apr 2025 02:01

Tgt Ion: 43 Resp: 2582

Ion	Ratio	Lower	Upper
43	100		
72	17.0	18.2	27.2#





#36
Benzene
Concen: 0.123 ppbv m
RT: 3.651 min Scan# 1
Delta R.T. -0.003 min
Lab File: VL042377.D
Acq: 18 Apr 2025 02:01

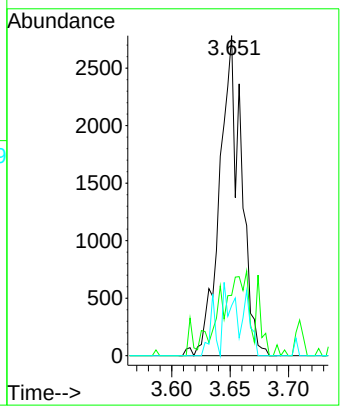
Tgt Ion: 78 Resp: 360

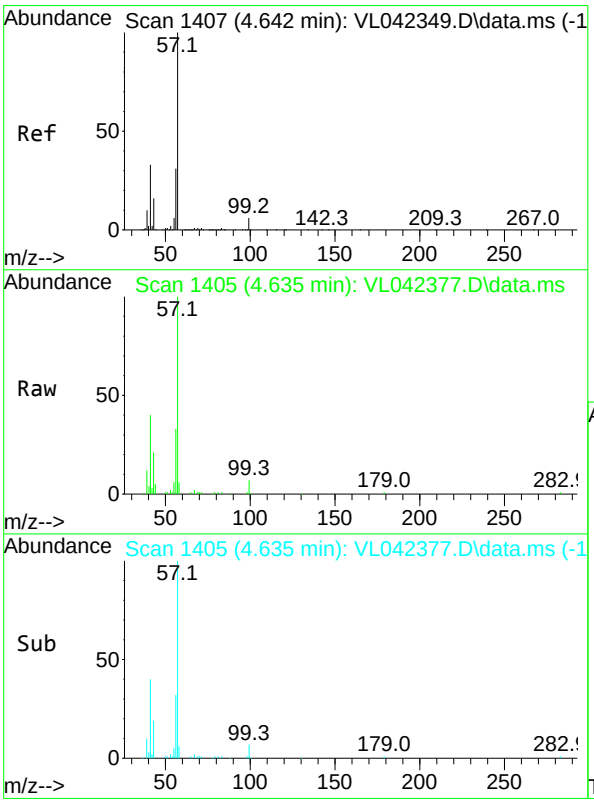
Ion	Ratio	Lower	Upper
78	100		
77	18.9	17.4	26.0
50	15.7	15.5	23.3

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025DL

Manual Integrations
APPROVED

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

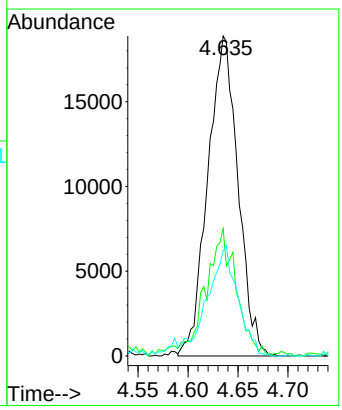


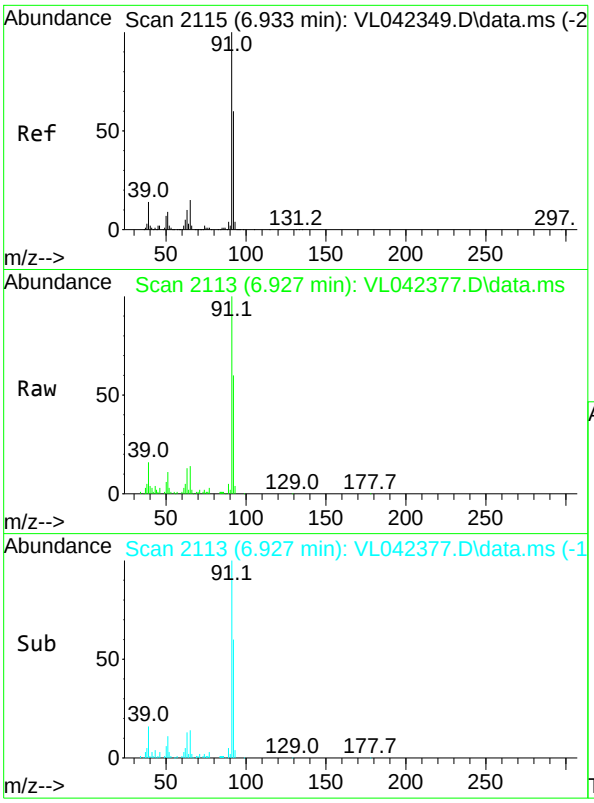


#44
2,2,4-Trimethylpentane
Concen: 0.782 ppbv
RT: 4.635 min Scan# 1405
Delta R.T. -0.006 min
Lab File: VL042377.D
Acq: 18 Apr 2025 02:01

Tgt Ion: 57 Resp: 39733

Ion	Ratio	Lower	Upper
57	100		
41	41.9	27.2	40.8#
56	36.0	25.7	38.5

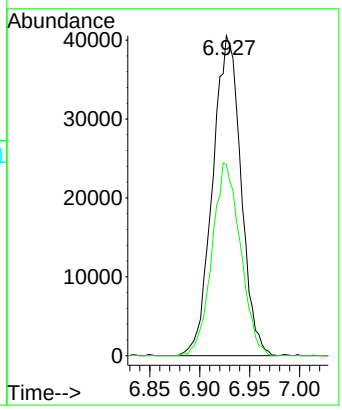




#53
Toluene
Concen: 2.264 ppbv
RT: 6.927 min Scan# 21
Delta R.T. -0.006 min
Lab File: VL042377.D
Acq: 18 Apr 2025 02:01

Tgt Ion: 91 Resp: 7988

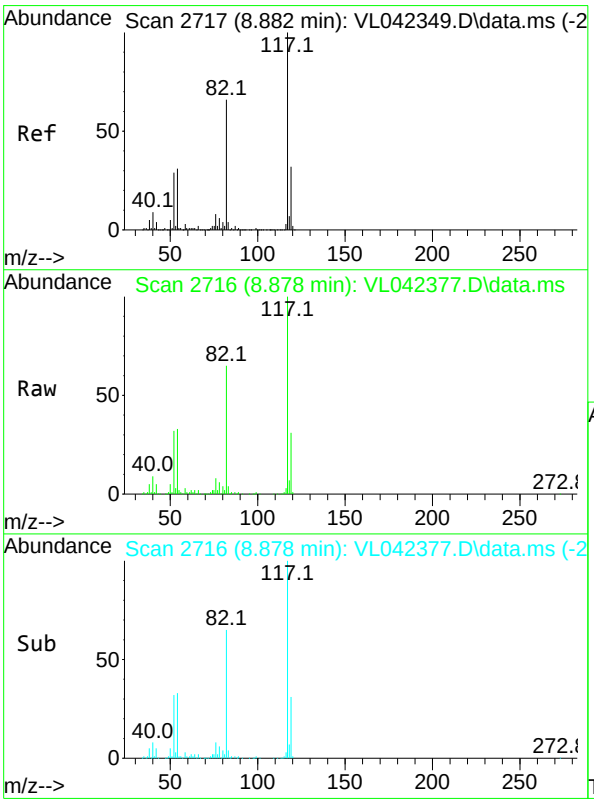
Ion	Ratio	Lower	Upper
91	100		
92	60.5	48.2	72.4



Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025DL

Manual Integrations
APPROVED

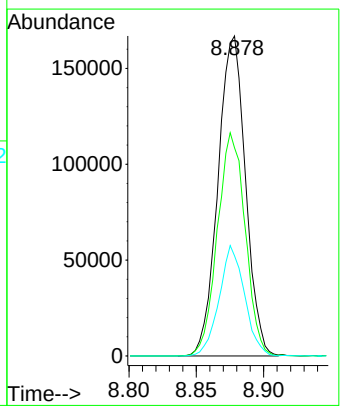
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

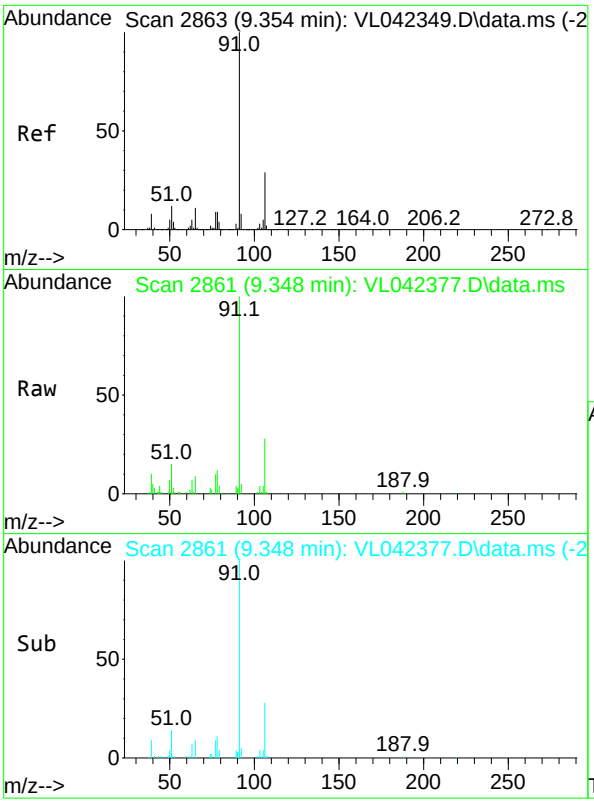


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.878 min Scan# 2716
Delta R.T. -0.003 min
Lab File: VL042377.D
Acq: 18 Apr 2025 02:01

Tgt Ion:117 Resp: 237645

Ion	Ratio	Lower	Upper
117	100		
82	70.3	57.8	86.6
119	31.9	25.2	37.8





#58
Ethyl Benzene
Concen: 0.457 ppbv
RT: 9.348 min Scan# 2
Delta R.T. -0.006 min
Lab File: VL042377.D
Acq: 18 Apr 2025 02:01

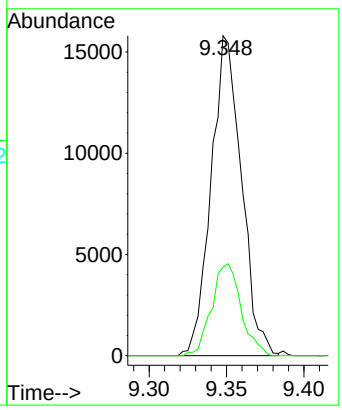
Tgt Ion: 91 Resp: 2150

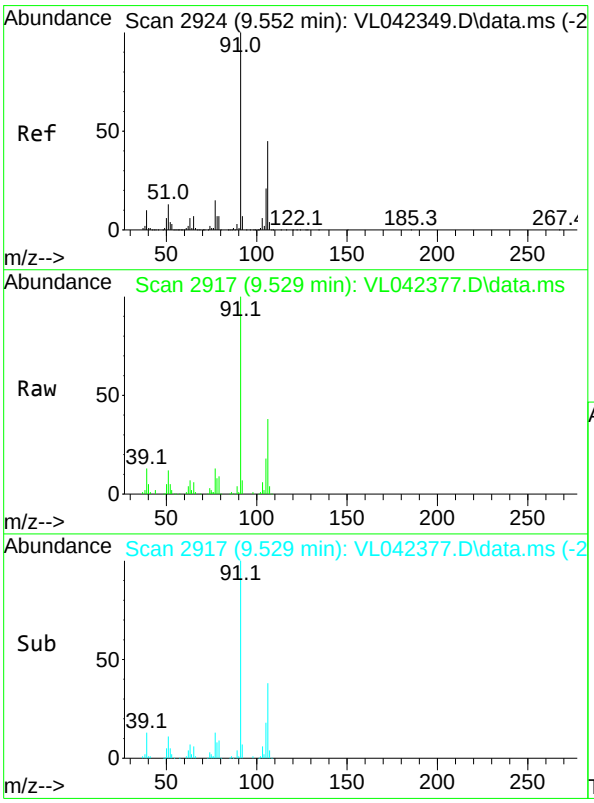
Ion	Ratio	Lower	Upper
91	100		
106	27.7	23.0	34.4

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025DL

Manual Integrations
APPROVED

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

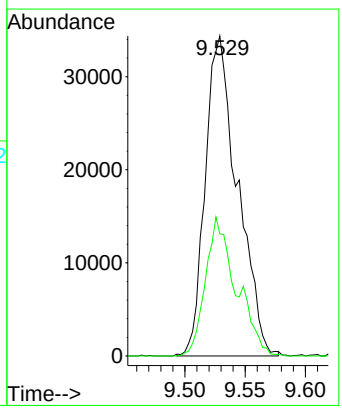


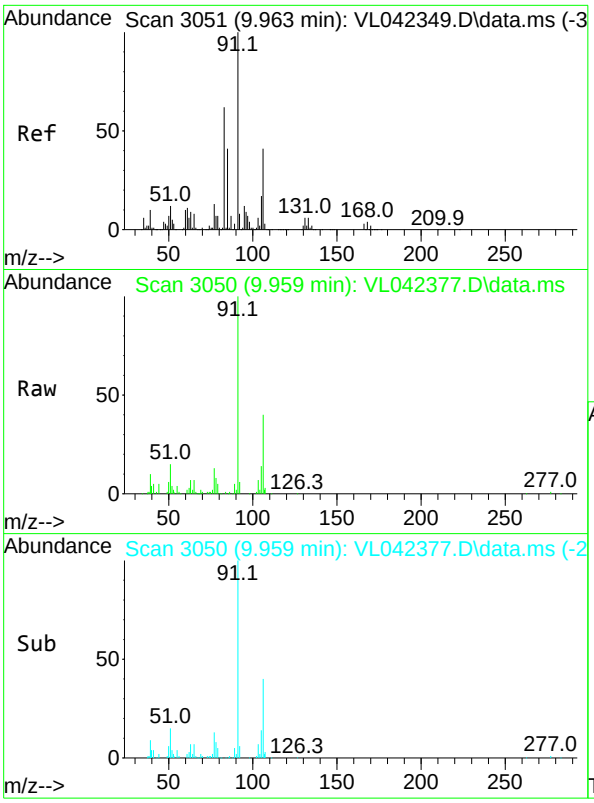


#59
m/p-Xylene
Concen: 1.692 ppbv m
RT: 9.529 min Scan# 2917
Delta R.T. -0.023 min
Lab File: VL042377.D
Acq: 18 Apr 2025 02:01

Tgt Ion: 91 Resp: 64193

Ion	Ratio	Lower	Upper
91	100		
106	0.0	35.4	53.2#

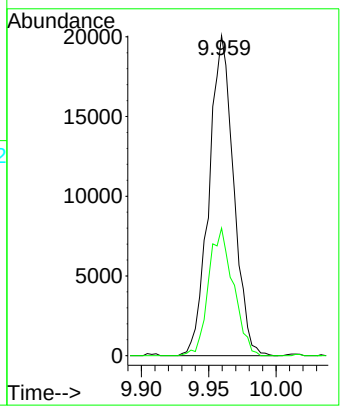




#60
o-Xylene
Concen: 0.668 ppbv
RT: 9.959 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042377.D
Acq: 18 Apr 2025 02:01

Tgt Ion: 91 Resp: 2551

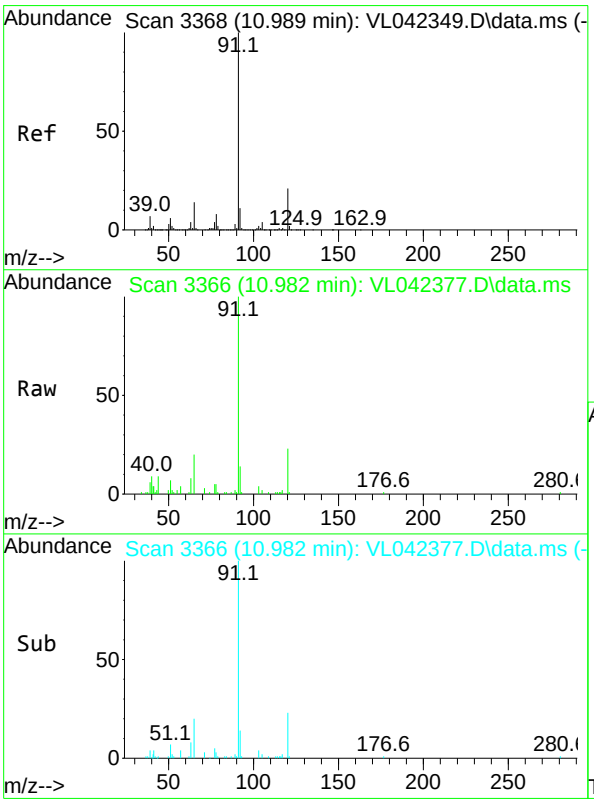
Ion	Ratio	Lower	Upper
91	100		
106	40.1	21.1	63.4



Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025DL

Manual Integrations
APPROVED

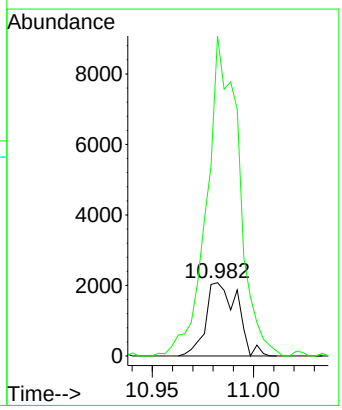
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

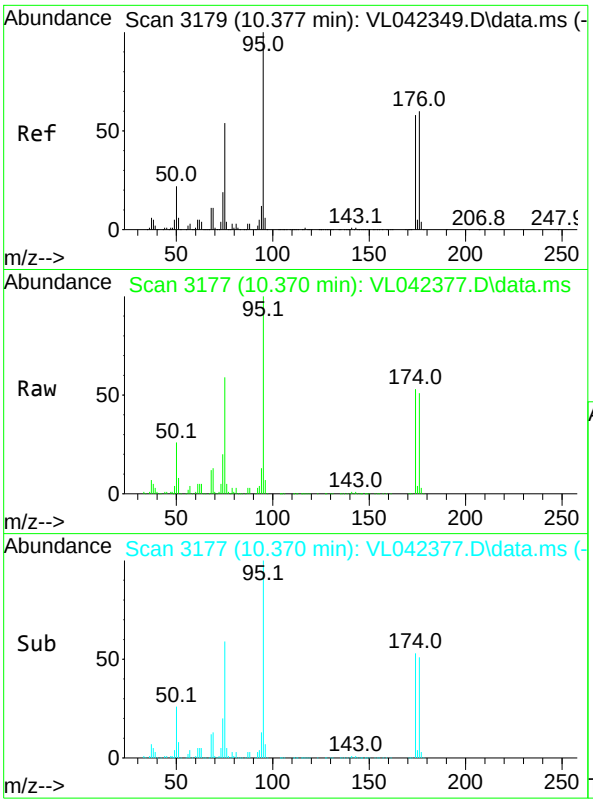


#64
n-propylbenzene
Concen: 0.160 ppbv m
RT: 10.982 min Scan# 3366
Delta R.T. -0.006 min
Lab File: VL042377.D
Acq: 18 Apr 2025 02:01

Tgt Ion:120 Resp: 2250

Ion	Ratio	Lower	Upper
120	100		
91	449.2	392.4	588.6

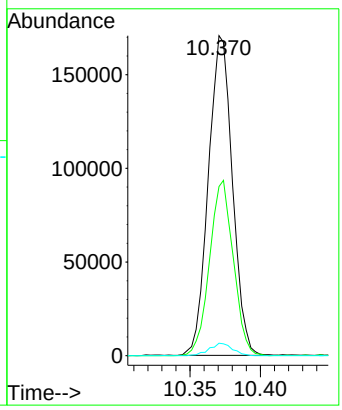




#68
1-Bromo-4-Fluorobenzene
Concen: 10.393 ppbv
RT: 10.370 min Scan# 3
Delta R.T. -0.006 min
Lab File: VL042377.D
Acq: 18 Apr 2025 02:01

Tgt Ion: 95 Resp: 20295

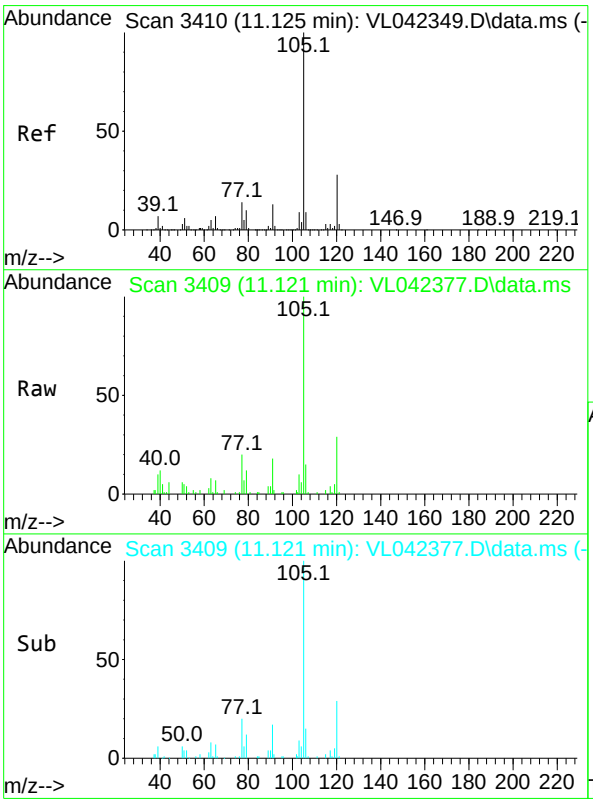
Ion	Ratio	Lower	Upper
95	100		
174	54.2	48.5	72.7
175	3.8	3.7	5.5



Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025DL

Manual Integrations
APPROVED

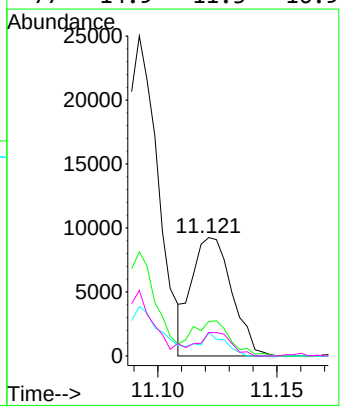
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

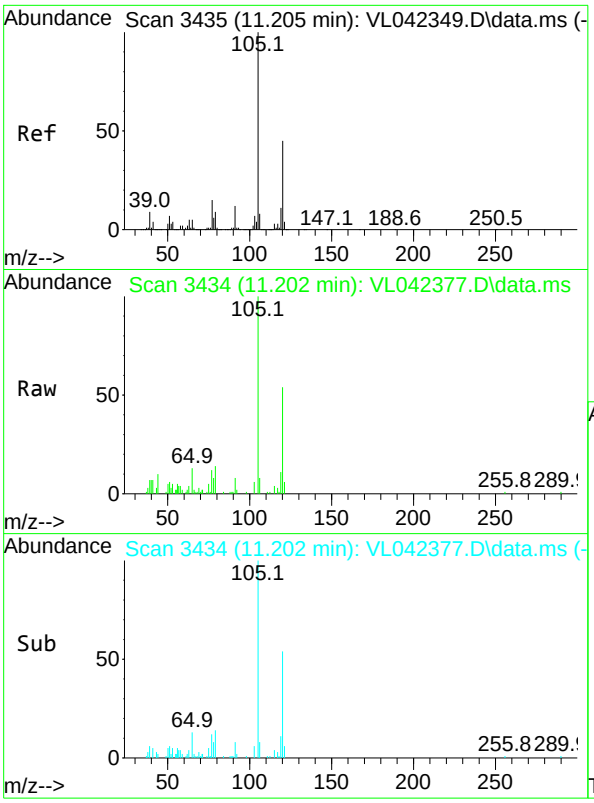


#72
4-Ethyltoluene
Concen: 0.234 ppbv
RT: 11.121 min Scan# 3409
Delta R.T. -0.003 min
Lab File: VL042377.D
Acq: 18 Apr 2025 02:01

Tgt Ion:105 Resp: 10921

Ion	Ratio	Lower	Upper
105	100		
120	0.0	23.2	34.8#
91	0.0	10.4	15.6#
77	14.9	11.3	16.9





#73
1,3,5-Trimethylbenzene
Concen: 0.272 ppbv
RT: 11.202 min Scan# 34
Delta R.T. -0.003 min
Lab File: VL042377.D
Acq: 18 Apr 2025 02:01

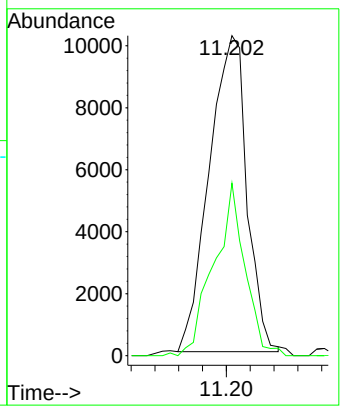
Tgt Ion:105 Resp: 1119

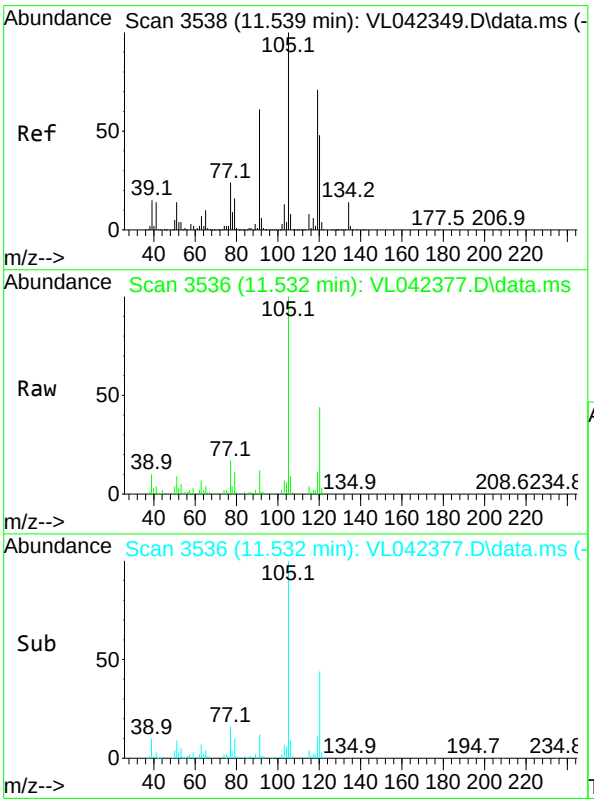
Ion	Ratio	Lower	Upper
105	100		
120	54.6	35.6	53.4#

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025DL

Manual Integrations
APPROVED

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

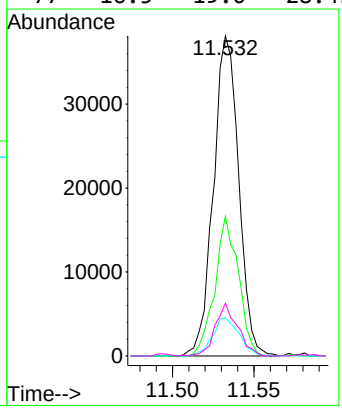




#74
1,2,4-Trimethylbenzene
Concen: 0.853 ppbv
RT: 11.532 min Scan# 3536
Delta R.T. -0.006 min
Lab File: VL042377.D
Acq: 18 Apr 2025 02:01

Tgt Ion:105 Resp: 41057

Ion	Ratio	Lower	Upper
105	100		
120	43.6	38.1	57.1
91	11.9	48.8	73.2#
77	16.5	19.0	28.4#



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

Report of Analysis

Client:	Woodard & Curran	Date Collected:	04/01/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	IA-B2-6-03312025DL2	SDG No.:	Q1726
Lab Sample ID:	Q1726-02DL2	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
VL042388.D	40		04/18/25 13:12	VL041825

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	8.40	41.5	UD	41.5	98.9	ug/m3
64-17-5	Ethanol	210	396	DQ	24.1	37.7	ug/m3
74-87-3	Chloromethane	5.00	10.3	JD	8.05	41.3	ug/m3
75-01-4	Vinyl Chloride	0.56	1.43	UD	1.43	3.07	ug/m3
74-83-9	Bromomethane	5.60	21.7	UD	21.7	77.7	ug/m3
75-00-3	Chloroethane	6.80	17.9	UD	17.9	52.8	ug/m3
109-99-9	Tetrahydrofuran	5.20	15.3	UDQ	15.3	59.0	ug/m3
75-69-4	Trichlorofluoromethane	6.40	36.0	UD	36.0	112	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	6.40	49.0	UD	49.0	153	ug/m3
76-14-2	Dichlorotetrafluoroethane	3.50	24.5	UD	24.5	140	ug/m3
593-60-2	Bromoethene	4.80	21.0	UD	21.0	87.4	ug/m3
75-65-0	tert-Butyl alcohol	7.60	23.0	UD	23.0	60.6	ug/m3
142-82-5	Heptane	5.40	22.1	JDQ	18.0	82.0	ug/m3
67-63-0	Isopropyl Alcohol	24.5	60.2	D	6.88	49.2	ug/m3
75-35-4	1,1-Dichloroethene	5.60	22.2	UD	22.2	79.3	ug/m3
67-64-1	Acetone	240	570	D	22.8	47.5	ug/m3
75-15-0	Carbon Disulfide	6.40	19.9	UD	19.9	62.3	ug/m3
1634-04-4	Methyl tert-Butyl Ether	4.80	17.3	UD	17.3	72.1	ug/m3
75-09-2	Methylene Chloride	7.60	26.4	UD	26.4	69.5	ug/m3
156-60-5	trans-1,2-Dichloroethene	7.60	30.1	UD	30.1	79.3	ug/m3
75-34-3	1,1-Dichloroethane	5.20	21.1	UD	21.1	81.0	ug/m3
110-82-7	Cyclohexane	8.80	30.3	UD	30.3	68.8	ug/m3
78-93-3	2-Butanone	4.80	14.2	UD	14.2	59.0	ug/m3
56-23-5	Carbon Tetrachloride	0.44	2.77	UD	2.77	7.55	ug/m3
156-59-2	cis-1,2-Dichloroethene	3.60	14.3	UD	14.3	79.3	ug/m3
67-66-3	Chloroform	3.30	16.1	UD	16.1	97.7	ug/m3
71-55-6	1,1,1-Trichloroethane	0.38	2.07	UD	2.07	6.55	ug/m3
540-84-1	2,2,4-Trimethylpentane	9.20	43.0	JD	18.7	93.4	ug/m3
71-43-2	Benzene	3.50	11.2	UD	11.2	63.9	ug/m3
107-06-2	1,2-Dichloroethane	3.60	14.6	UD	14.6	81.0	ug/m3
79-01-6	Trichloroethene	0.68	3.65	UD	3.65	6.45	ug/m3
78-87-5	1,2-Dichloropropane	4.40	20.3	UD	20.3	92.4	ug/m3
75-27-4	Bromodichloromethane	3.10	20.8	UD	20.8	134	ug/m3
108-10-1	4-Methyl-2-Pentanone	3.70	15.2	UD	15.2	82.0	ug/m3
108-88-3	Toluene	27.4	103	D	16.6	75.4	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:	04/01/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	IA-B2-6-03312025DL2	SDG No.:	Q1726
Lab Sample ID:	Q1726-02DL2	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
VL042388.D	40		04/18/25 13:12	VL041825

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	2.40	10.9	UD	10.9	90.8	ug/m3
10061-01-5	cis-1,3-Dichloropropene	2.60	11.8	UD	11.8	90.8	ug/m3
79-00-5	1,1,2-Trichloroethane	2.80	15.3	UD	15.3	109	ug/m3
124-48-1	Dibromochloromethane	2.60	22.1	UD	22.1	170	ug/m3
106-93-4	1,2-Dibromoethane	2.90	22.3	UD	22.3	30.7	ug/m3
127-18-4	Tetrachloroethene	0.60	4.07	UD	4.07	8.14	ug/m3
108-90-7	Chlorobenzene	3.00	13.8	UD	13.8	92.1	ug/m3
100-41-4	Ethyl Benzene	5.40	23.5	JD	20.9	86.9	ug/m3
179601-23-1	m/p-Xylene	19.8	86.0	JD	36.5	174	ug/m3
95-47-6	o-Xylene	7.40	32.1	JD	20.9	86.9	ug/m3
100-42-5	Styrene	4.40	18.7	UD	18.7	85.2	ug/m3
75-25-2	Bromoform	2.30	23.8	UD	23.8	207	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	0.44	3.02	UD	3.02	8.24	ug/m3
95-49-8	2-Chlorotoluene	4.40	22.8	UD	22.8	104	ug/m3
108-67-8	1,3,5-Trimethylbenzene	4.40	21.6	UD	21.6	98.3	ug/m3
95-63-6	1,2,4-Trimethylbenzene	9.70	47.7	JD	15.2	98.3	ug/m3
541-73-1	1,3-Dichlorobenzene	3.20	19.2	UD	19.2	120	ug/m3
106-46-7	1,4-Dichlorobenzene	2.10	12.6	UD	12.6	120	ug/m3
95-50-1	1,2-Dichlorobenzene	3.00	18.0	UD	18.0	120	ug/m3
120-82-1	1,2,4-Trichlorobenzene	3.40	25.2	UD	25.2	148	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	3.40	36.3	UD	36.3	213	ug/m3
106-99-0	1,3-Butadiene	5.20	11.5	UD	11.5	44.3	ug/m3
91-20-3	Naphthalene	3.00	15.7	UD	15.7	21.0	ug/m3
622-96-8	4-Ethyltoluene	4.80	23.6	UD	23.6	98.3	ug/m3
110-54-3	Hexane	4.40	15.5	UD	15.5	70.5	ug/m3
107-05-1	Allyl Chloride	6.00	18.8	UD	18.8	62.6	ug/m3
123-91-1	1,4-Dioxane	8.40	30.3	UD	30.3	72.1	ug/m3
80-62-6	Methyl Methacrylate	3.40	13.9	UDQ	13.9	81.9	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	133000		2.784			
540-36-3	1,4-Difluorobenzene	409000		3.952			
3114-55-4	Chlorobenzene-d5	355000		8.875			

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

Report of Analysis

Client:	Woodard & Curran	Date Collected:	04/01/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	IA-B2-6-03312025DL2	SDG No.:	Q1726
Lab Sample ID:	Q1726-02DL2	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
VL042388.D	40		04/18/25 13:12	VL041825

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\VL041825\
Data File : VL042388.D
Acq On : 18 Apr 2025 13:12
Operator : SY/MD
Sample : Q1726-02DL2 40X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 18 22:58:20 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-B2-6-03312025DL2

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.784	49	132986	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	409322	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	354583	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.370	95	288297	9.894	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 98.900%			
Target Compounds						Qvalue
4) Chloromethane	1.531	50	1157	0.124	ppbv #	76
9) Propene	1.489	41	1101	0.108	ppbv #	80
10) Heptane	4.968	43	3875m	0.135	ppbv	
13) Ethanol	1.719	45	8476	5.234	ppbv	85
15) Acetone	1.832	43	132763	6.098	ppbv	98
19) Isopropyl Alcohol	1.884	45	7402	0.612	ppbv #	1
44) 2,2,4-Trimethylpentane	4.638	57	17626m	0.231	ppbv	
53) Toluene	6.930	91	36363	0.686	ppbv	100
58) Ethyl Benzene	9.348	91	9406m	0.134	ppbv	
59) m/p-Xylene	9.526	91	27952	0.494	ppbv	96
60) o-Xylene	9.956	91	10620m	0.186	ppbv	
74) 1,2,4-Trimethylbenzene	11.532	105	17448	0.243	ppbv #	63

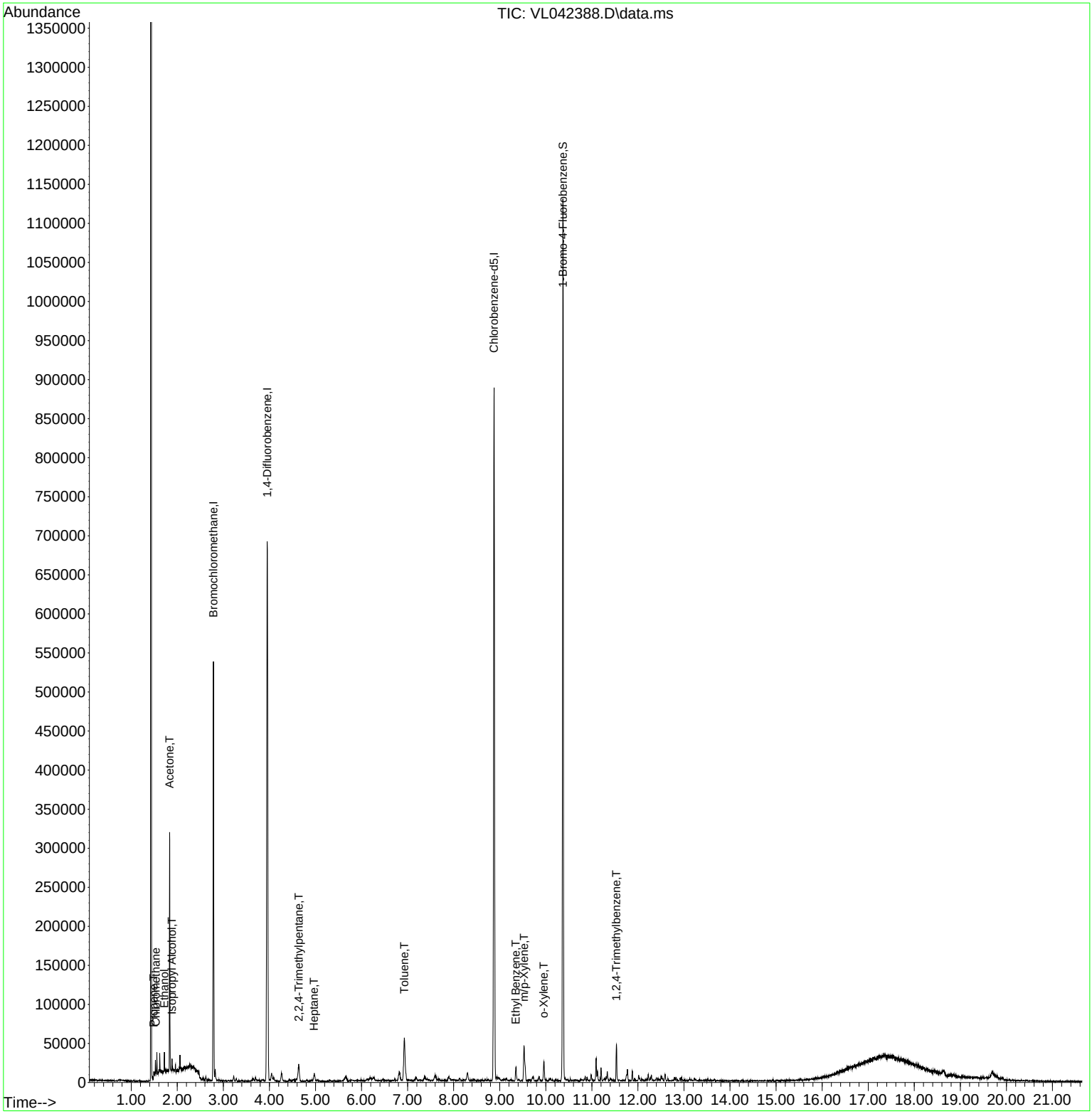
(#) = qualifier out of range (m) = manual integration (+) = signals summed

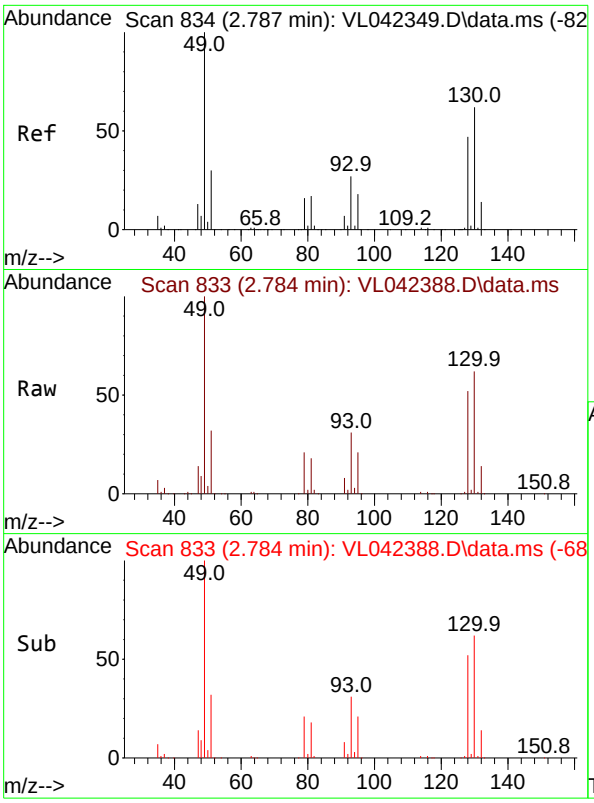
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041825\
Data File : VL042388.D
Acq On : 18 Apr 2025 13:12
Operator : SY/MD
Sample : Q1726-02DL2 40X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 18 22:58:20 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-B2-6-03312025DL2

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025

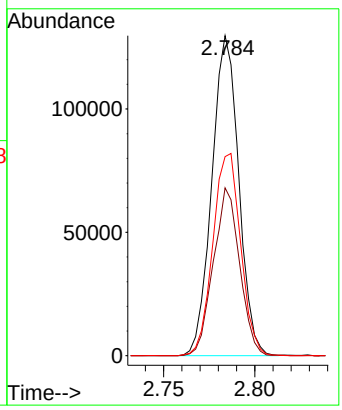




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 8
Delta R.T. -0.003 min
Lab File: VL042388.D
Acq: 18 Apr 2025 13:12

Tgt Ion: 49 Resp: 13298

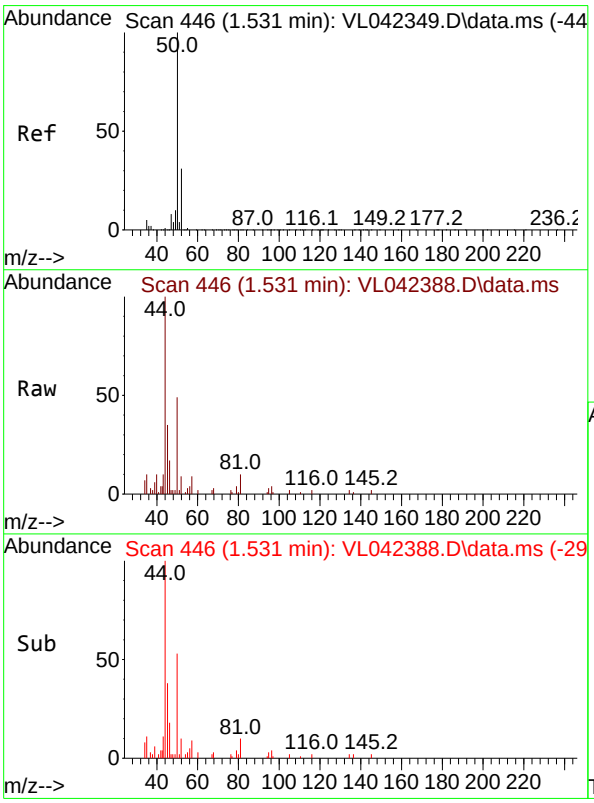
Ion	Ratio	Lower	Upper
49	100		
128	51.2	22.8	68.4
130	65.3	29.3	88.0



Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025DL2

Manual Integrations
APPROVED

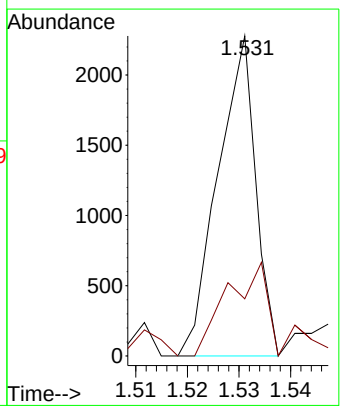
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025

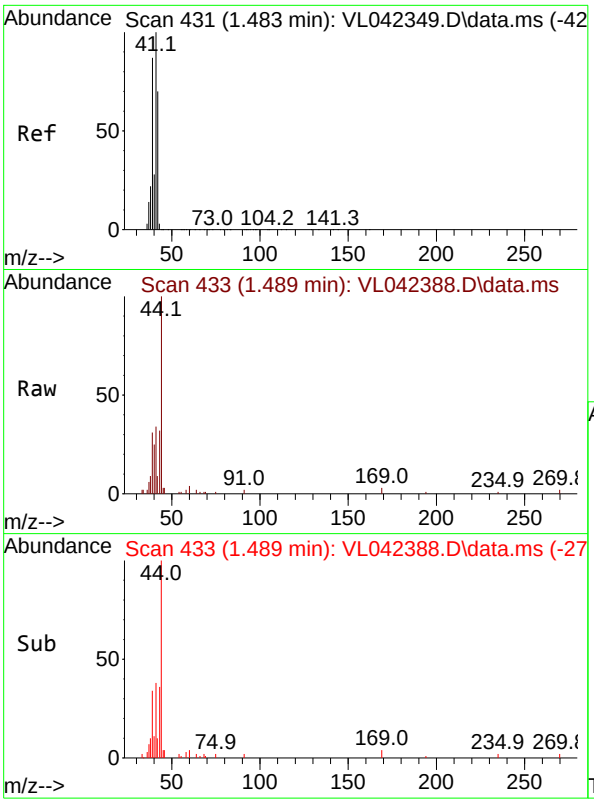


#4
Chloromethane
Concen: 0.124 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042388.D
Acq: 18 Apr 2025 13:12

Tgt Ion: 50 Resp: 1157

Ion	Ratio	Lower	Upper
50	100		
52	17.9	24.7	37.1#

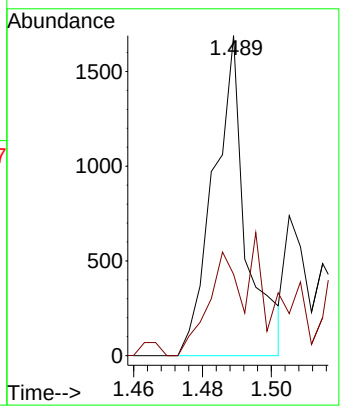




#9
Propene
Concen: 0.108 ppbv
RT: 1.489 min Scan# 4
Delta R.T. 0.006 min
Lab File: VL042388.D
Acq: 18 Apr 2025 13:12

Tgt Ion: 41 Resp: 110

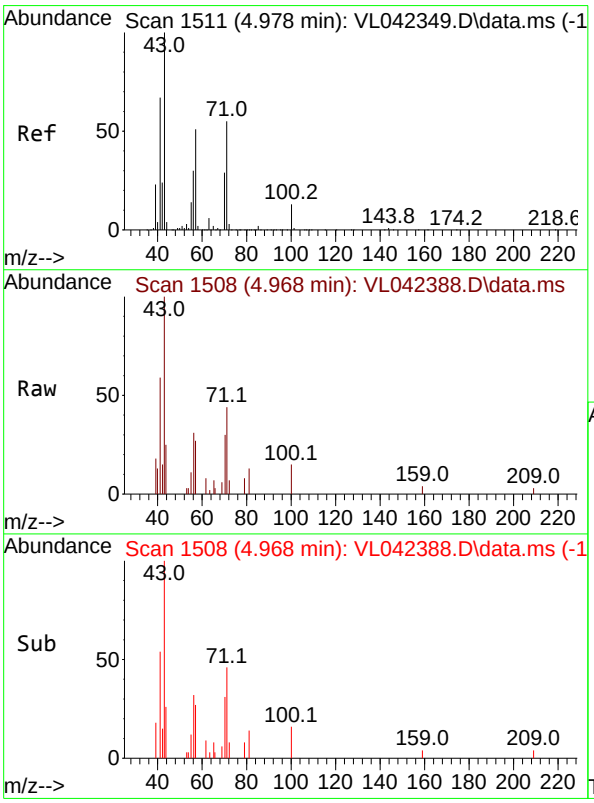
Ion	Ratio	Lower	Upper
41	100		
42	86.9	56.2	84.4



Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025DL2

Manual Integrations
APPROVED

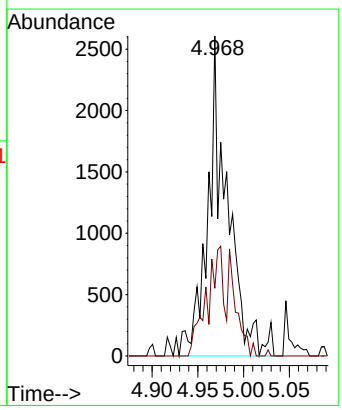
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025

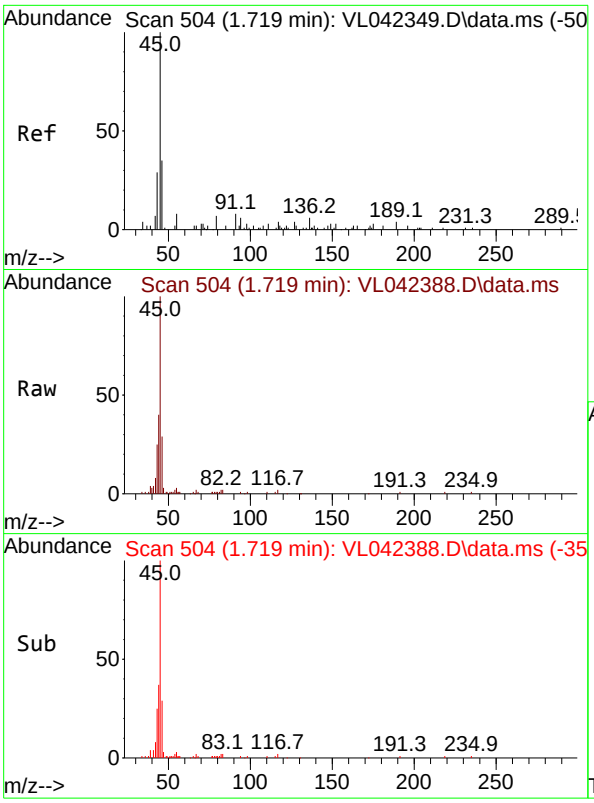


#10
Heptane
Concen: 0.135 ppbv m
RT: 4.968 min Scan# 1508
Delta R.T. -0.010 min
Lab File: VL042388.D
Acq: 18 Apr 2025 13:12

Tgt Ion: 43 Resp: 3875

Ion	Ratio	Lower	Upper
43	100		
57	43.3	39.9	59.9

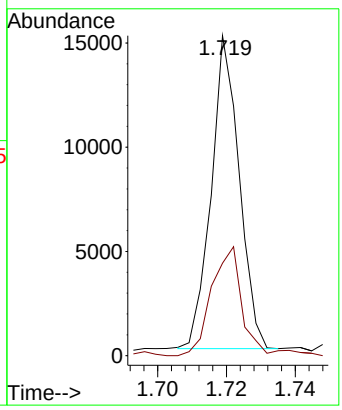




#13
Ethanol
Concen: 5.234 ppbv
RT: 1.719 min Scan# 5(
Delta R.T. -0.000 min
Lab File: VL042388.D
Acq: 18 Apr 2025 13:12

Tgt Ion: 45 Resp: 847(

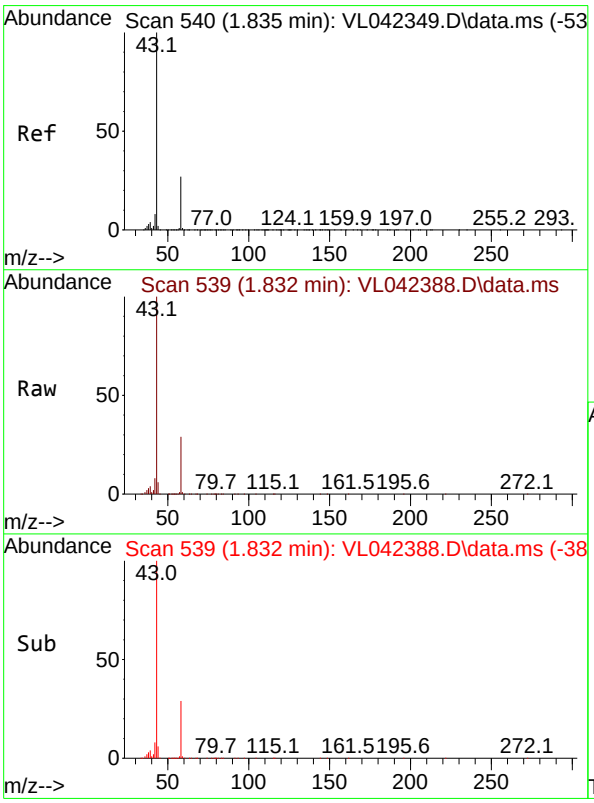
Ion	Ratio	Lower	Upper
45	100		
46	44.0	21.9	87.7



Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025DL2

Manual Integrations
APPROVED

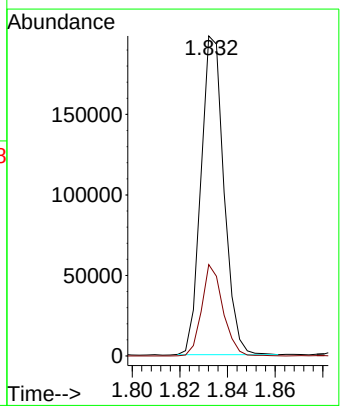
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025

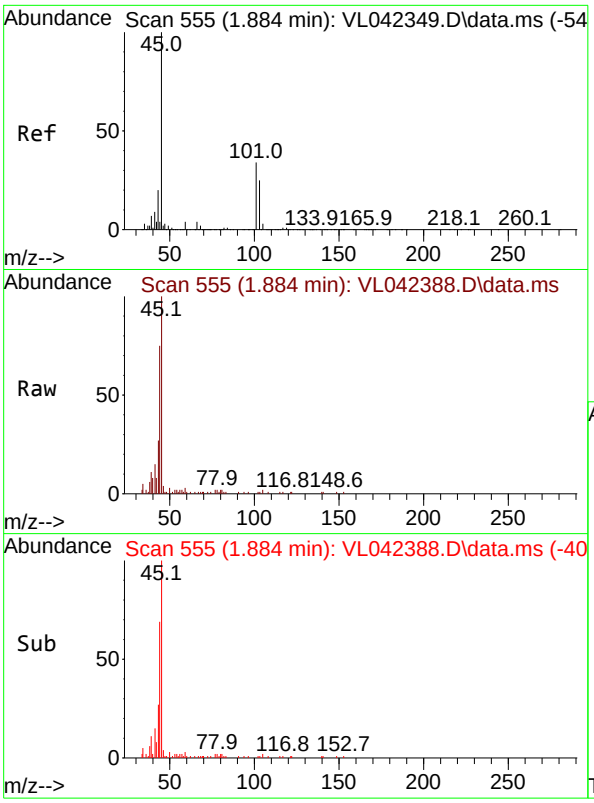


#15
Acetone
Concen: 6.098 ppbv
RT: 1.832 min Scan# 539
Delta R.T. -0.003 min
Lab File: VL042388.D
Acq: 18 Apr 2025 13:12

Tgt Ion: 43 Resp: 132763

Ion	Ratio	Lower	Upper
43	100		
58	26.9	22.4	33.6





#19
Isopropyl Alcohol
Concen: 0.612 ppbv
RT: 1.884 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL042388.D
Acq: 18 Apr 2025 13:12

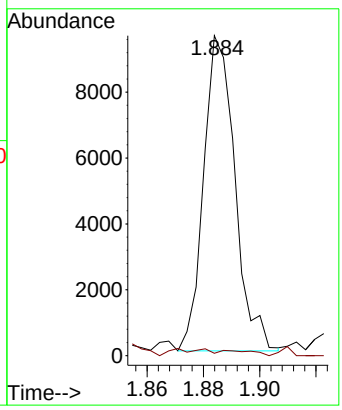
Tgt Ion: 45 Resp: 740

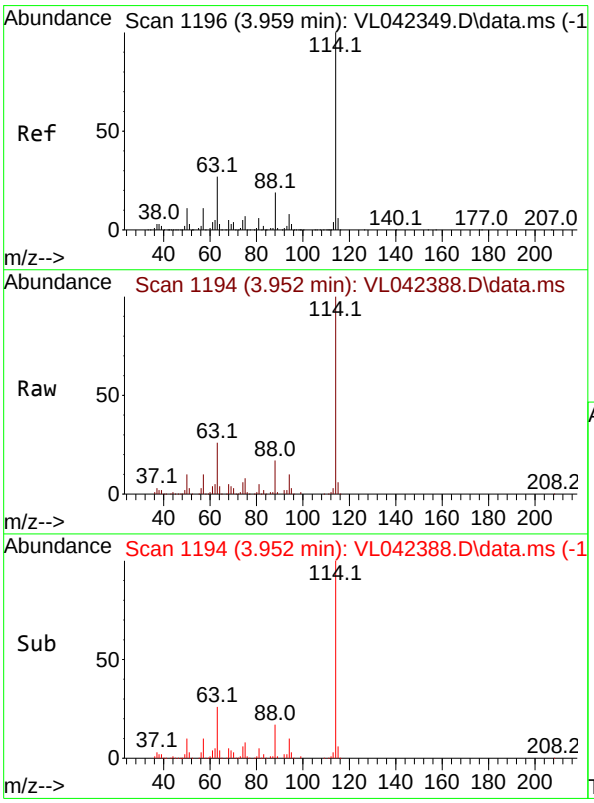
Ion	Ratio	Lower	Upper
45	100		
58	482.1	34.5	51.7#

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025DL2

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025

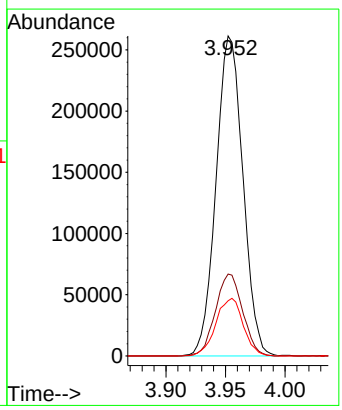


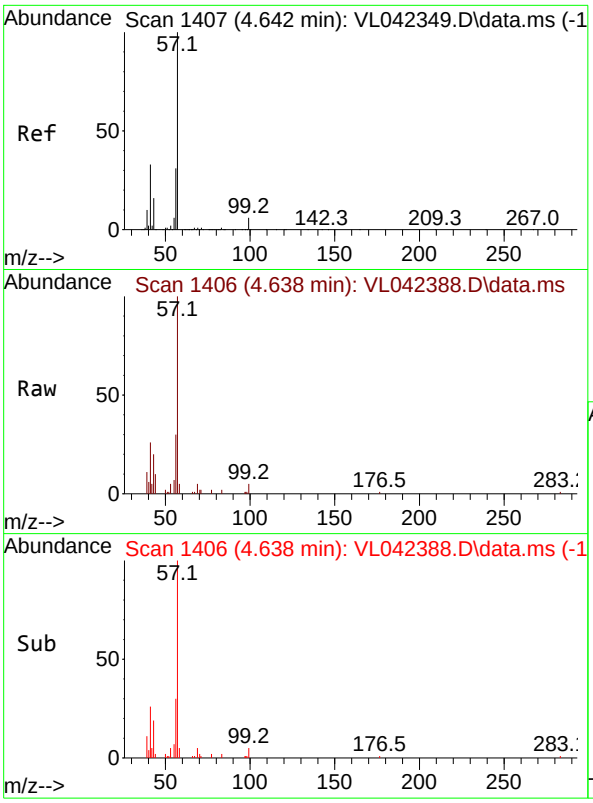


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.952 min Scan# 1194
Delta R.T. -0.006 min
Lab File: VL042388.D
Acq: 18 Apr 2025 13:12

Tgt Ion:114 Resp: 409322

Ion	Ratio	Lower	Upper
114	100		
63	25.9	21.8	32.6
88	18.4	15.5	23.3

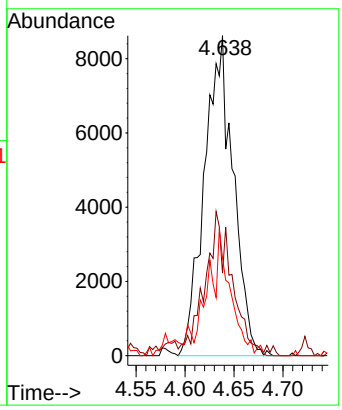




#44
2,2,4-Trimethylpentane
Concen: 0.231 ppbv m
RT: 4.638 min Scan# 14
Delta R.T. -0.003 min
Lab File: VL042388.D
Acq: 18 Apr 2025 13:12

Tgt Ion: 57 Resp: 1762

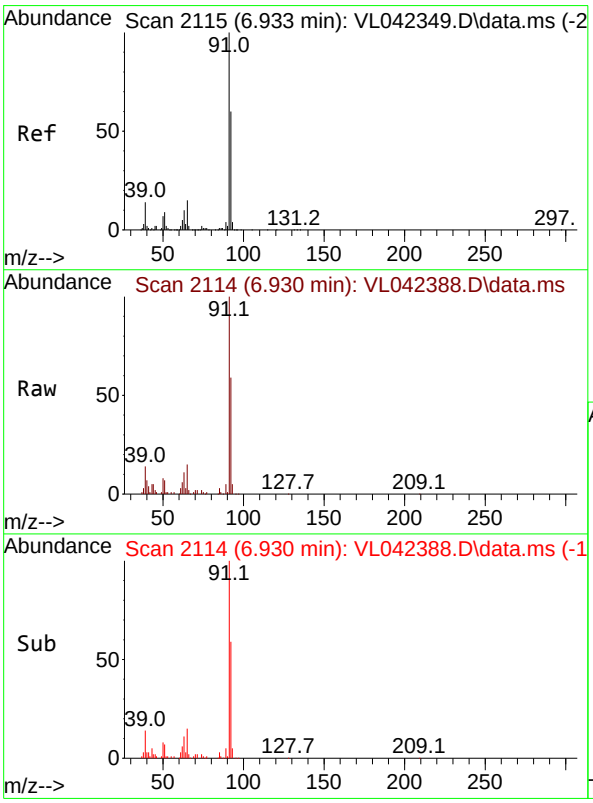
Ion	Ratio	Lower	Upper
57	100		
41	45.9	27.2	40.8
56	32.0	25.7	38.5



Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025DL2

Manual Integrations
APPROVED

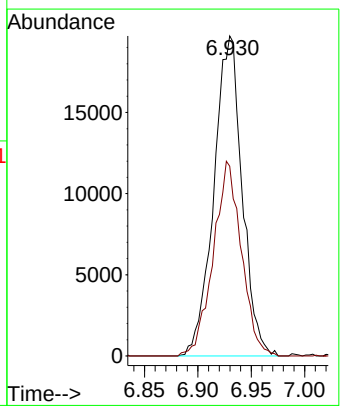
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025

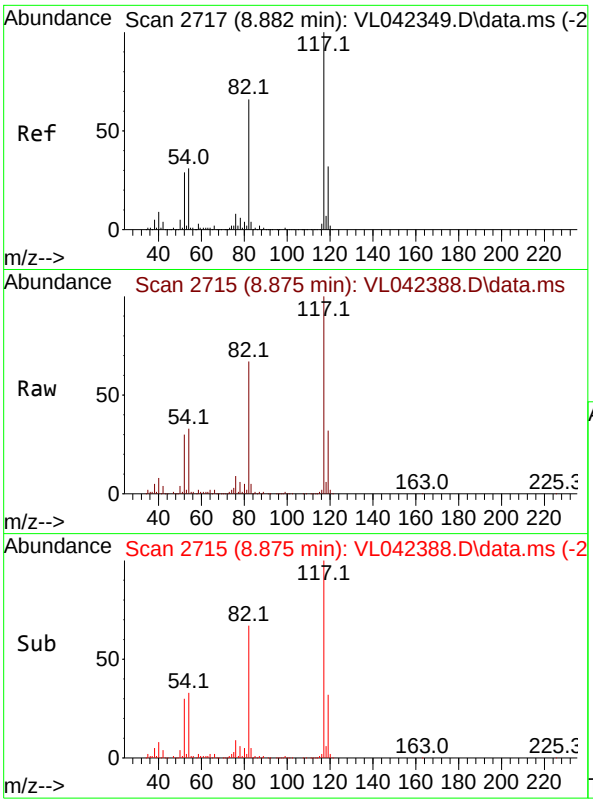


#53
Toluene
Concen: 0.686 ppbv
RT: 6.930 min Scan# 2114
Delta R.T. -0.003 min
Lab File: VL042388.D
Acq: 18 Apr 2025 13:12

Tgt Ion: 91 Resp: 36363

Ion	Ratio	Lower	Upper
91	100		
92	60.4	48.2	72.4

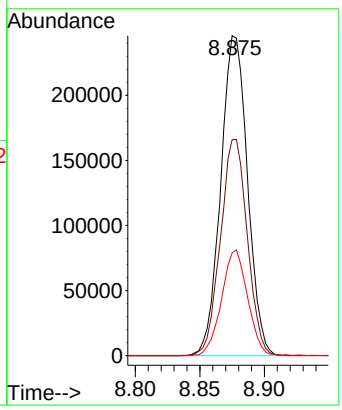




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 2
Delta R.T. -0.007 min
Lab File: VL042388.D
Acq: 18 Apr 2025 13:12

Tgt Ion:117 Resp: 35458

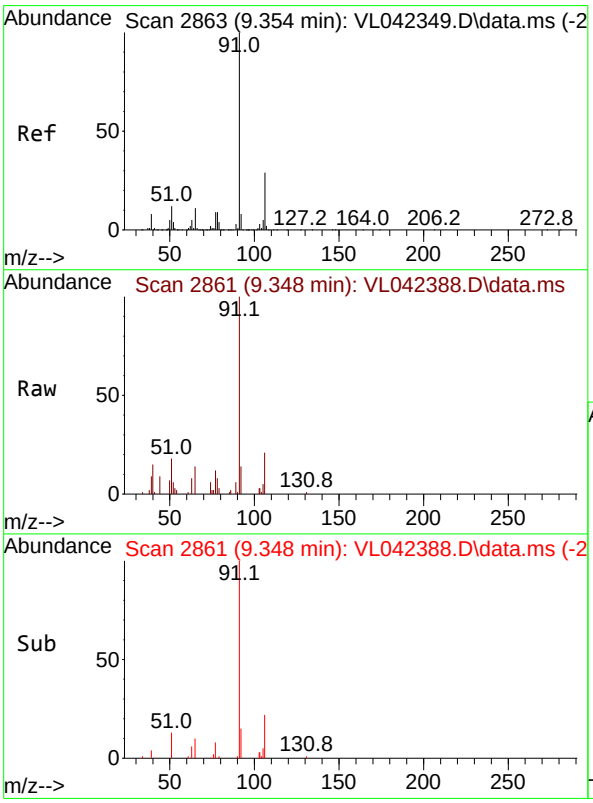
Ion	Ratio	Lower	Upper
117	100		
82	67.7	57.8	86.6
119	32.1	25.2	37.8



Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025DL2

Manual Integrations
APPROVED

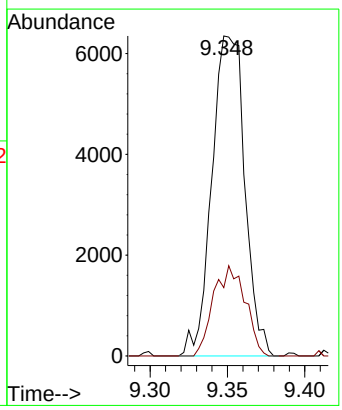
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025

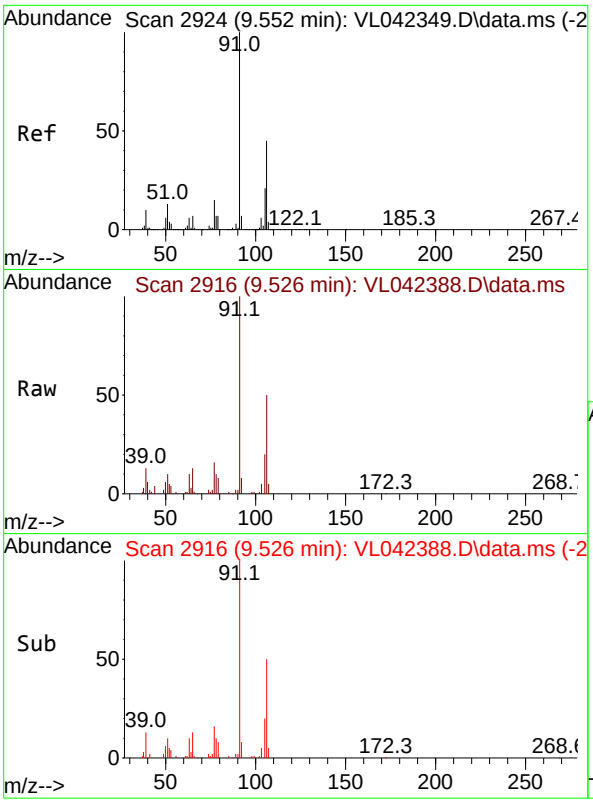


#58
Ethyl Benzene
Concen: 0.134 ppbv m
RT: 9.348 min Scan# 2861
Delta R.T. -0.007 min
Lab File: VL042388.D
Acq: 18 Apr 2025 13:12

Tgt Ion: 91 Resp: 9406

Ion	Ratio	Lower	Upper
91	100		
106	21.3	23.0	34.4#





#59
m/p-Xylene
Concen: 0.494 ppbv
RT: 9.526 min Scan# 2
Delta R.T. -0.026 min
Lab File: VL042388.D
Acq: 18 Apr 2025 13:12

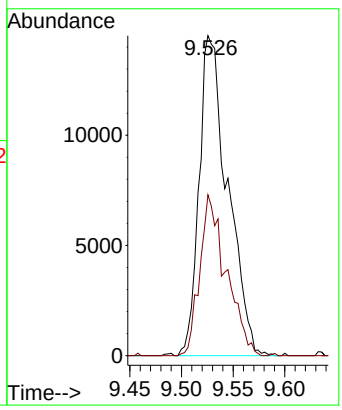
Tgt Ion: 91 Resp: 2795

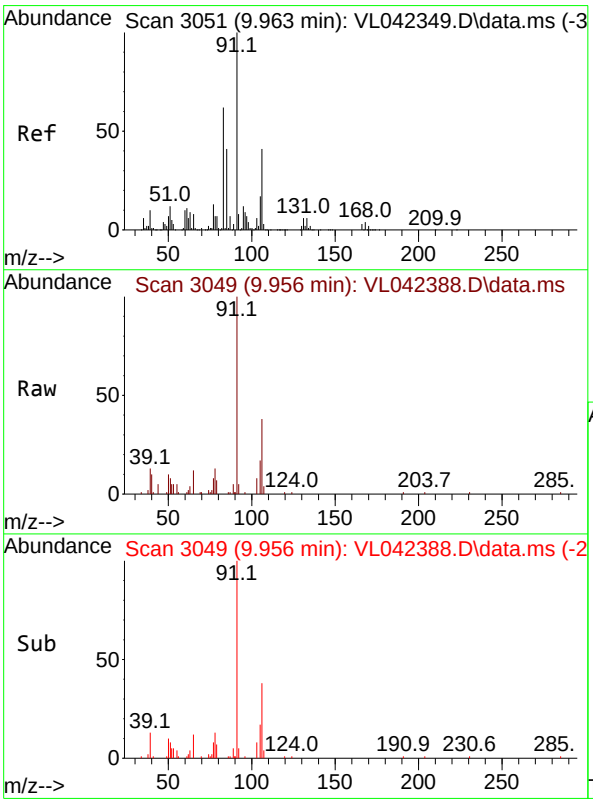
Ion	Ratio	Lower	Upper
91	100		
106	46.6	35.4	53.2

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025DL2

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025

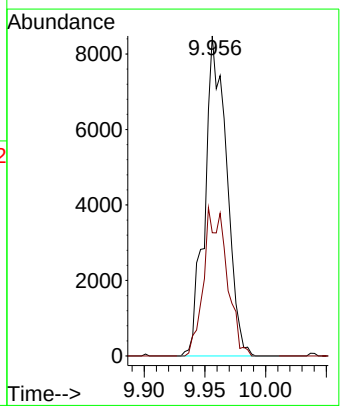


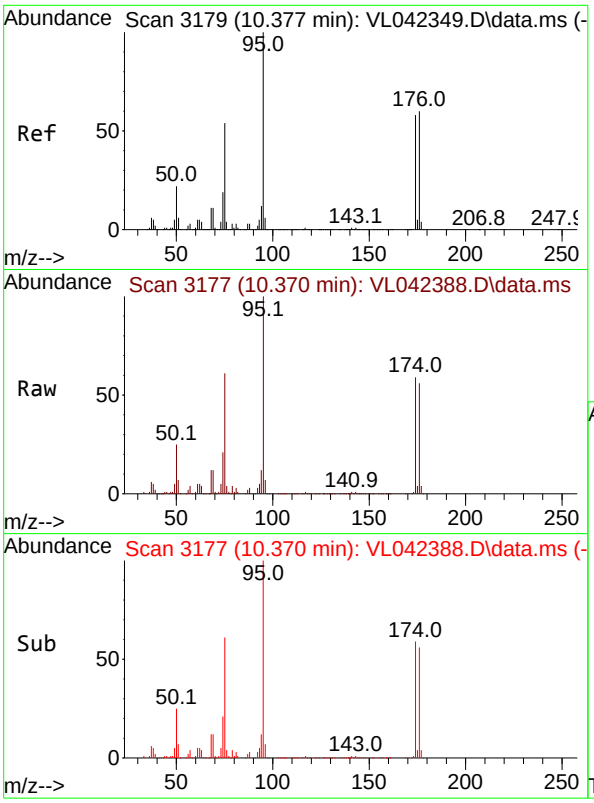


#60
o-Xylene
Concen: 0.186 ppbv m
RT: 9.956 min Scan# 3049
Delta R.T. -0.006 min
Lab File: VL042388.D
Acq: 18 Apr 2025 13:12

Tgt Ion: 91 Resp: 10620

Ion	Ratio	Lower	Upper
91	100		
106	48.9	21.1	63.4

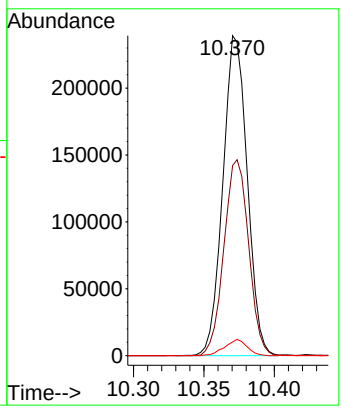




#68
1-Bromo-4-Fluorobenzene
Concen: 9.894 ppbv
RT: 10.370 min Scan# 3
Delta R.T. -0.006 min
Lab File: VL042388.D
Acq: 18 Apr 2025 13:12

Tgt Ion: 95 Resp: 28829

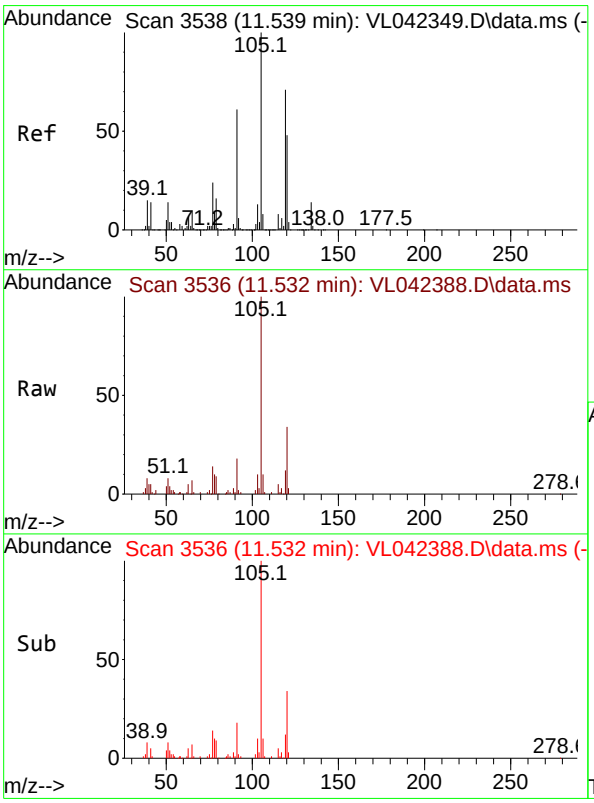
Ion	Ratio	Lower	Upper
95	100		
174	62.2	48.5	72.7
175	4.7	3.7	5.5



Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025DL2

Manual Integrations
APPROVED

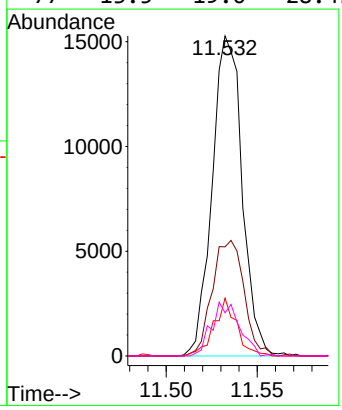
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025



#74
1,2,4-Trimethylbenzene
Concen: 0.243 ppbv
RT: 11.532 min Scan# 3536
Delta R.T. -0.007 min
Lab File: VL042388.D
Acq: 18 Apr 2025 13:12

Tgt Ion:105 Resp: 17448

Ion	Ratio	Lower	Upper
105	100		
120	34.1	38.1	57.1#
91	18.1	48.8	73.2#
77	13.5	19.0	28.4#



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

Report of Analysis

Client:	Woodard & Curran	Date Collected:	04/01/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	IA-B2-2-03312025	SDG No.:	Q1726
Lab Sample ID:	Q1726-03	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
VL042368.D	1		04/17/25 21:12	VL041725

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.47	2.32	J	1.04	2.47	ug/m3
64-17-5	Ethanol	230	433	EQ	0.60	0.94	ug/m3
74-87-3	Chloromethane	1.40	2.89		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	0.27	0.80	J	0.38	1.47	ug/m3
75-69-4	Trichlorofluoromethane	0.25	1.40	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
593-60-2	Bromoethene	0.12	0.52	U	0.52	2.19	ug/m3
75-65-0	tert-Butyl alcohol	0.74	2.24		0.58	1.52	ug/m3
142-82-5	Heptane	3.00	12.3		0.45	2.05	ug/m3
67-63-0	Isopropyl Alcohol	43.7	107	E	0.17	1.23	ug/m3
75-35-4	1,1-Dichloroethene	0.14	0.56	U	0.56	1.98	ug/m3
67-64-1	Acetone	180	428	E	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	5.40	18.8		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	0.97	3.34		0.76	1.72	ug/m3
78-93-3	2-Butanone	1.50	4.42		0.35	1.47	ug/m3
56-23-5	Carbon Tetrachloride	0.090	0.57		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	0.13	0.63	J	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	8.40	39.2		0.47	2.34	ug/m3
71-43-2	Benzene	0.90	2.88		0.29	1.60	ug/m3
107-06-2	1,2-Dichloroethane	0.16	0.65	J	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	18.7	70.5	E	0.41	1.88	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:	04/01/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	IA-B2-2-03312025	SDG No.:	Q1726
Lab Sample ID:	Q1726-03	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
VL042368.D	1		04/17/25 21:12	VL041725

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
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
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	0.26	1.76		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	3.60	15.6		0.52	2.17	ug/m3
179601-23-1	m/p-Xylene	12.6	54.7		0.91	4.34	ug/m3
95-47-6	o-Xylene	5.00	21.7		0.52	2.17	ug/m3
100-42-5	Styrene	0.40	1.70	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	0.52	2.69		0.57	2.59	ug/m3
108-67-8	1,3,5-Trimethylbenzene	2.10	10.3		0.54	2.46	ug/m3
95-63-6	1,2,4-Trimethylbenzene	5.80	28.5		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	0.10	0.60	J	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	0.42	2.20		0.42	0.52	ug/m3
622-96-8	4-Ethyltoluene	1.80	8.85		0.59	2.46	ug/m3
110-54-3	Hexane	4.30	15.2		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	119000		2.787			
540-36-3	1,4-Difluorobenzene	333000		3.962			
3114-55-4	Chlorobenzene-d5	297000		8.882			
TENTITIVE IDENTIFIED COMPOUNDS							

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

Report of Analysis

Client:	Woodard & Curran	Date Collected:	04/01/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	IA-B2-2-03312025	SDG No.:	Q1726
Lab Sample ID:	Q1726-03	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
VL042368.D	1		04/17/25 21:12	VL041725

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
75-45-6	Chlorodifluoromethane	0.27		J		1.47	ppbv
115-07-1	Propene	3.10		J		1.49	ppbv
000106-97-8	Butane	8.70		J		1.62	ppbv
	unknown2.276	3.90		J		2.28	ppbv
000107-83-5	Pentane, 2-methyl-	3.00		J		2.47	ppbv
000591-76-4	Hexane, 2-methyl-	3.90		J		4.05	ppbv
000589-34-4	Hexane, 3-methyl-	4.70		J		4.27	ppbv
000108-87-2	Cyclohexane, methyl-	3.70		J		5.67	ppbv
000565-75-3	Pentane, 2,3,4-trimethyl-	5.60		J		6.83	ppbv
000111-65-9	Octane	4.20		J		8.30	ppbv
98-82-8	Isopropylbenzene	0.34		J		10.5	ppbv
103-65-1	n-propylbenzene	1.00		J		11.0	ppbv
000111-13-7	2-Octanone	65.3		J		11.4	ppbv
99-87-6	p-Isopropyltoluene	0.18		J		11.9	ppbv
104-51-8	n-Butylbenzene	0.39		J		12.3	ppbv
91-57-6	Naphthalene,2-methyl-	0.17		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 : VL042368.D
Acq On : 17 Apr 2025 21:12
Operator : SY/MD
Sample : Q1726-03
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 18 02:43:48 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-B2-2-03312025

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	119191	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.962	114	333003	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.882	117	297493	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.377	95	243044	9.942	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 99.400%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.499	85	9795	0.465	ppbv		96
3) Chlorodifluoromethane	1.473	51	5382m	0.268	ppbv		
4) Chloromethane	1.531	50	11453	1.374	ppbv		96
9) Propene	1.489	41	28395m	3.109	ppbv		
10) Heptane	4.982	43	76723	2.990	ppbv		97
11) Trichlorofluoromethane	1.878	101	4992	0.249	ppbv		88
13) Ethanol	1.722	45	334088	230.163	ppbv		75
15) Acetone	1.836	43	3440620	176.335	ppbv	#	36
17) tert-Butyl alcohol	2.046	59	17897m	0.740	ppbv		
19) Isopropyl Alcohol	1.887	45	473769	43.709	ppbv	#	33
20) Methylene Chloride	2.062	84	40932	5.357	ppbv		94
26) Hexane	2.826	57	82957	4.261	ppbv	#	35
29) Chloroform	2.852	83	3693m	0.134	ppbv		
30) Cyclohexane	3.855	84	15212	0.967	ppbv	#	91
34) 2-Butanone	2.561	43	40042	1.520	ppbv		99
35) Carbon Tetrachloride	3.768	117	2692m	0.089	ppbv		
36) Benzene	3.658	78	32372	0.901	ppbv		98
37) 1,2-Dichloroethane	3.221	62	3461	0.161	ppbv	#	96
41) Tetrahydrofuran	3.066	42	4138	0.269	ppbv	#	79
44) 2,2,4-Trimethylpentane	4.642	57	521960	8.414	ppbv		96
52) Tetrachloroethene	8.225	164	3563m	0.257	ppbv		
53) Toluene	6.933	91	806485	18.711	ppbv		99
58) Ethyl Benzene	9.358	91	214751	3.643	ppbv		99
59) m/p-Xylene	9.532	91	599749	12.631	ppbv		100
60) o-Xylene	9.966	91	238681	4.992	ppbv		99
61) Styrene	9.875	104	9022	0.395	ppbv		95
62) Isopropylbenzene	10.539	105	23690	0.337	ppbv		96
64) n-propylbenzene	10.989	120	18420	1.044	ppbv		85
69) p-Isopropyltoluene	11.928	119	14319	0.184	ppbv		96
70) n-Butylbenzene	12.280	91	31785m	0.391	ppbv		
71) 2-Chlorotoluene	10.905	91	28490	0.517	ppbv		99
72) 4-Ethyltoluene	11.128	105	107491	1.839	ppbv	#	56
73) 1,3,5-Trimethylbenzene	11.206	105	109907	2.130	ppbv		95
74) 1,2,4-Trimethylbenzene	11.539	105	349266	5.794	ppbv	#	64
76) 1,4-Dichlorobenzene	11.672	146	3251	0.103	ppbv		93
79) Naphthalene	13.517	128	30244	0.420	ppbv		99
80) Naphthalene,2-methyl-	14.462	142	6832m	0.166	ppbv		

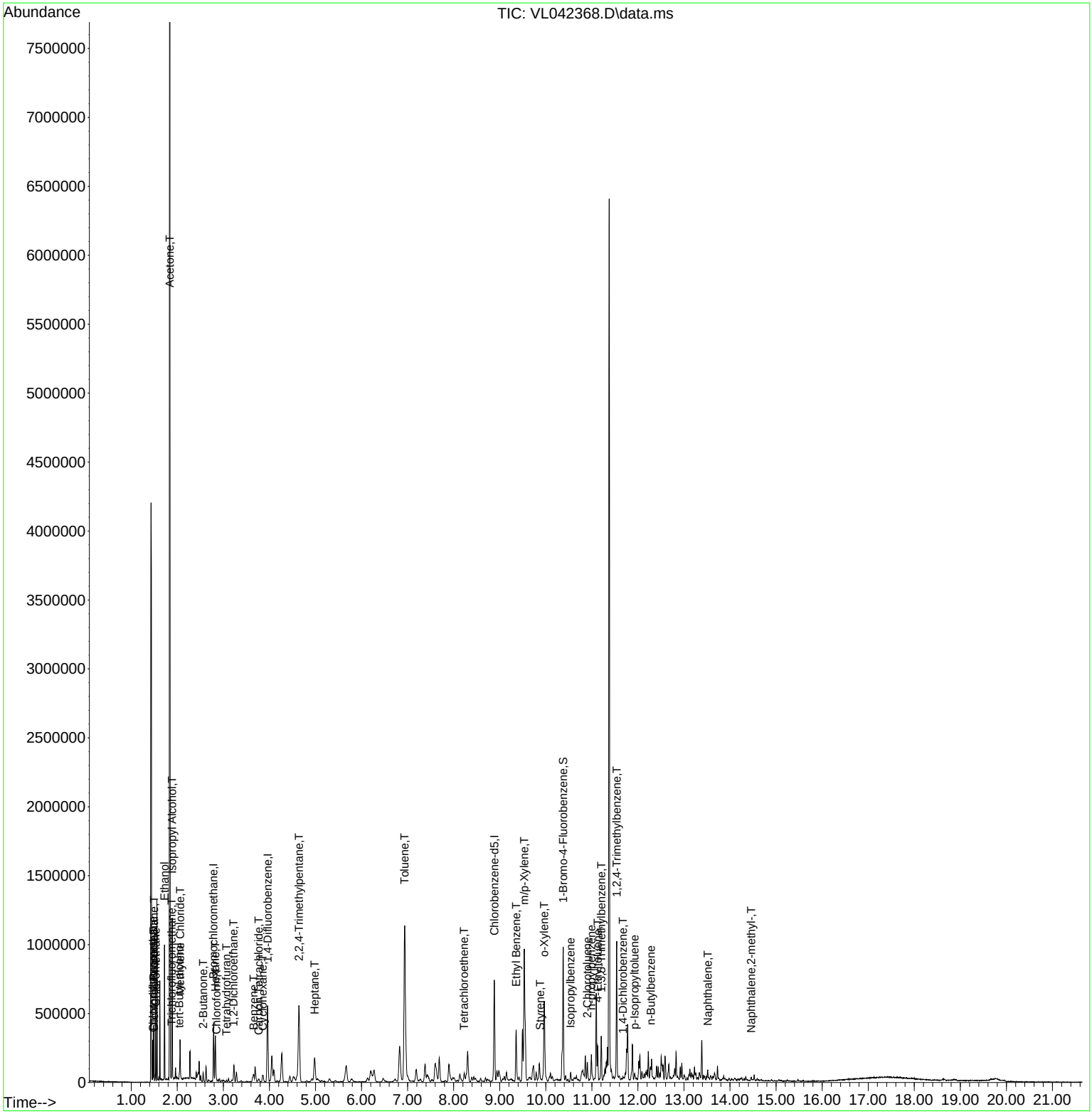
(#) = qualifier out of range (m) = manual integration (+) = signals summed

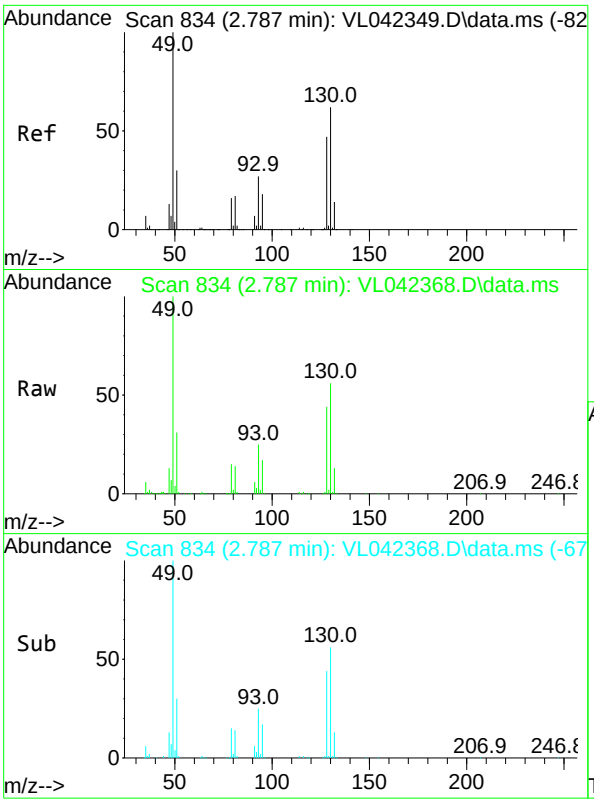
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042368.D
Acq On : 17 Apr 2025 21:12
Operator : SY/MD
Sample : Q1726-03
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 18 02:43:48 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-B2-2-03312025

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

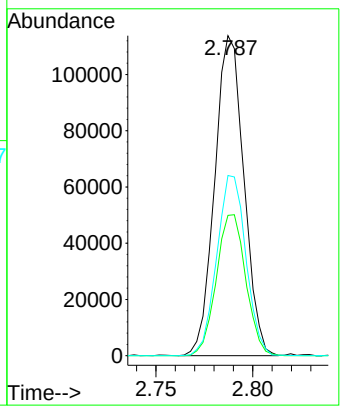




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 8
Delta R.T. 0.000 min
Lab File: VL042368.D
Acq: 17 Apr 2025 21:12

Tgt Ion: 49 Resp: 11919

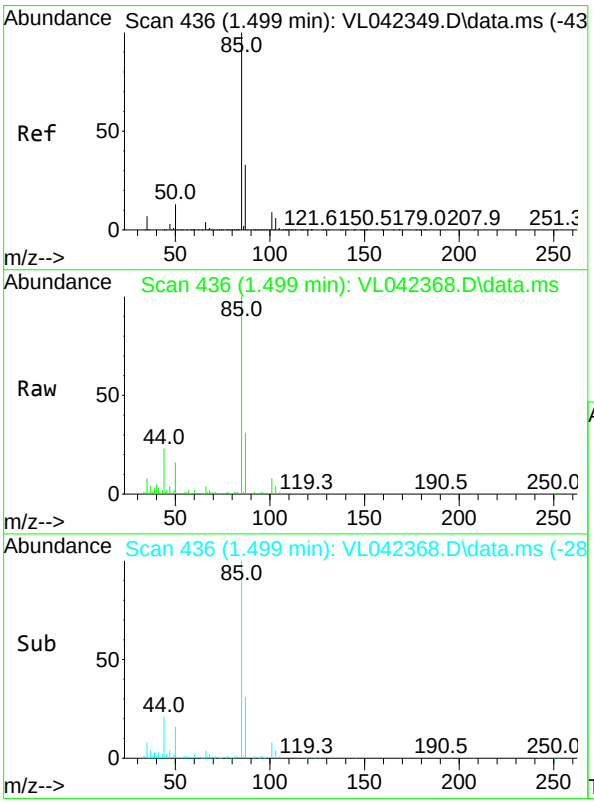
Ion	Ratio	Lower	Upper
49	100		
128	44.4	22.8	68.4
130	56.2	29.3	88.0



Instrument :
MSVOA_L
ClientSampleId :
IA-B2-2-03312025

Manual Integrations
APPROVED

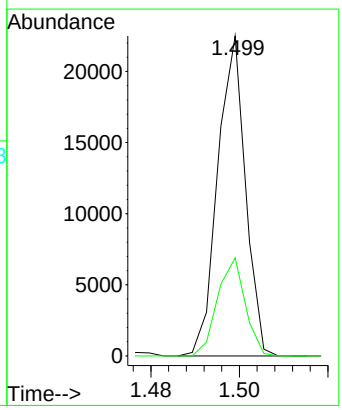
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

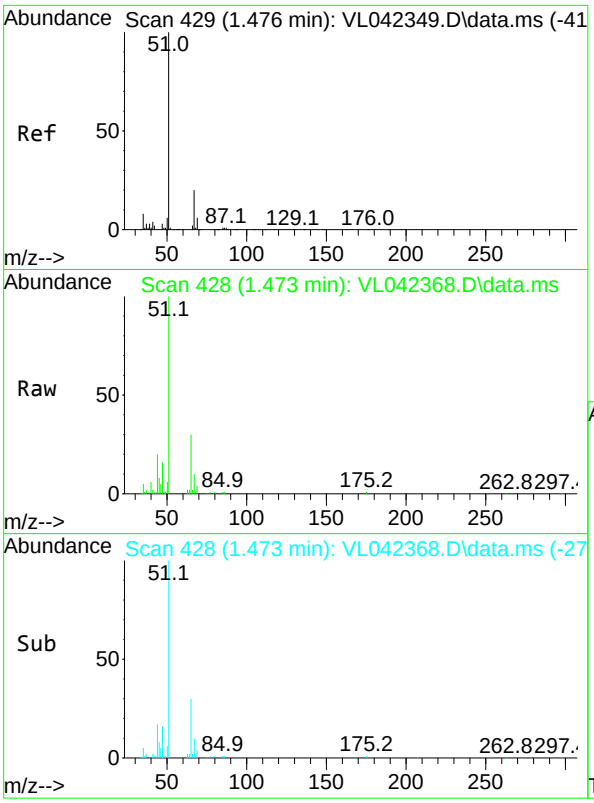


#2
Dichlorodifluoromethane
Concen: 0.465 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.000 min
Lab File: VL042368.D
Acq: 17 Apr 2025 21:12

Tgt Ion: 85 Resp: 9795

Ion	Ratio	Lower	Upper
85	100		
87	30.7	26.6	39.8

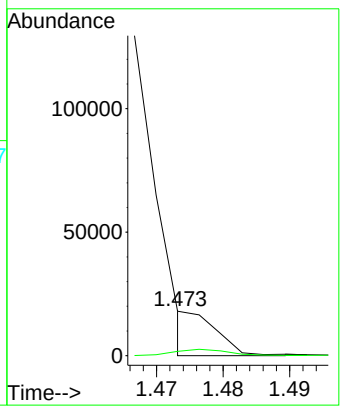




#3
Chlorodifluoromethane
Concen: 0.268 ppbv m
RT: 1.473 min Scan# 4
Delta R.T. -0.003 min
Lab File: VL042368.D
Acq: 17 Apr 2025 21:12

Tgt Ion: 51 Resp: 538

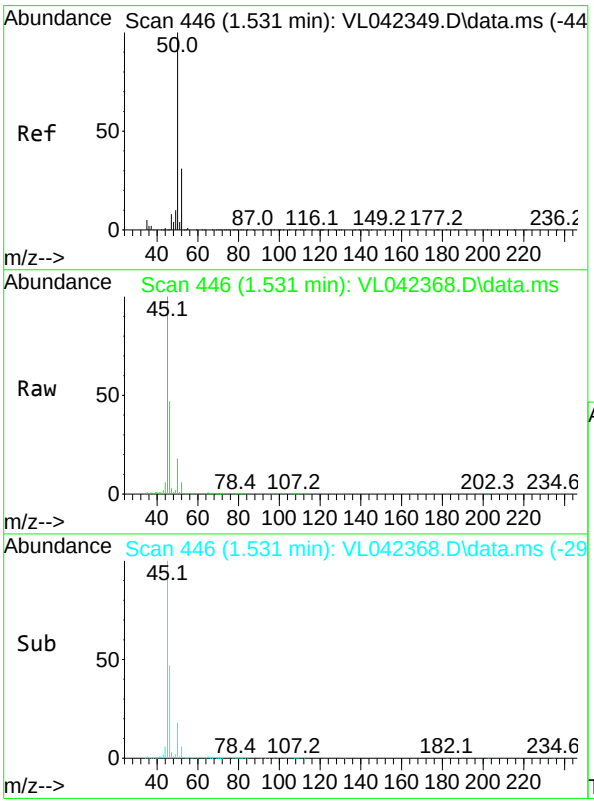
Ion	Ratio	Lower	Upper
51	100		
67	34.1	16.2	24.4



Instrument :
MSVOA_L
ClientSampleId :
IA-B2-2-03312025

Manual Integrations
APPROVED

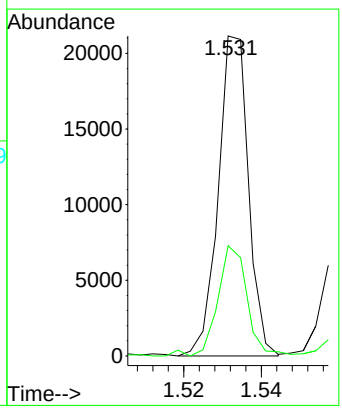
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

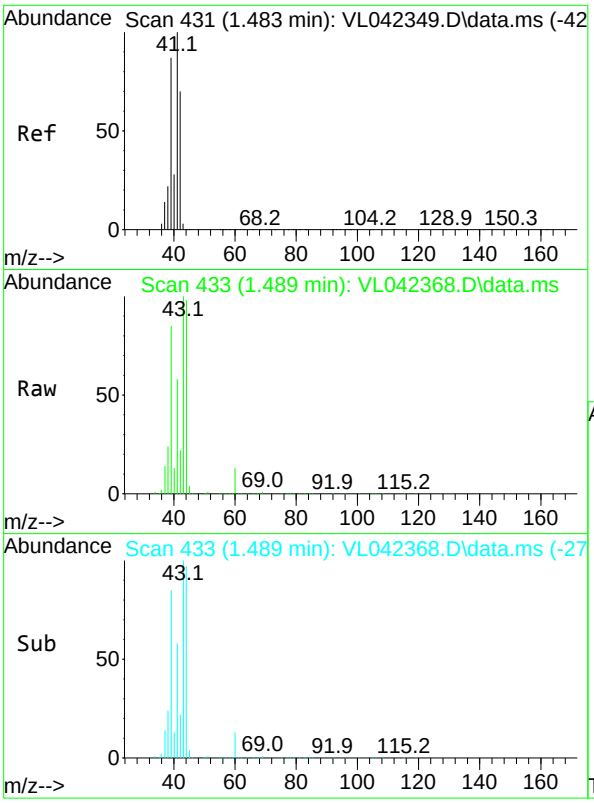


#4
Chloromethane
Concen: 1.374 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL042368.D
Acq: 17 Apr 2025 21:12

Tgt Ion: 50 Resp: 11453

Ion	Ratio	Lower	Upper
50	100		
52	33.2	24.7	37.1

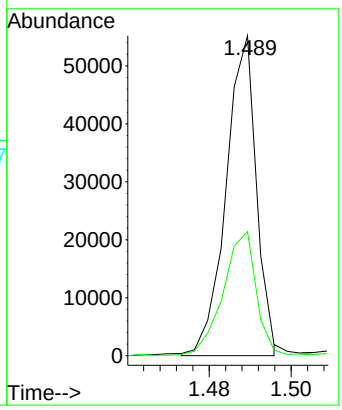




#9
Propene
Concen: 3.109 ppbv m
RT: 1.489 min Scan# 4
Delta R.T. 0.007 min
Lab File: VL042368.D
Acq: 17 Apr 2025 21:12

Tgt Ion: 41 Resp: 2839

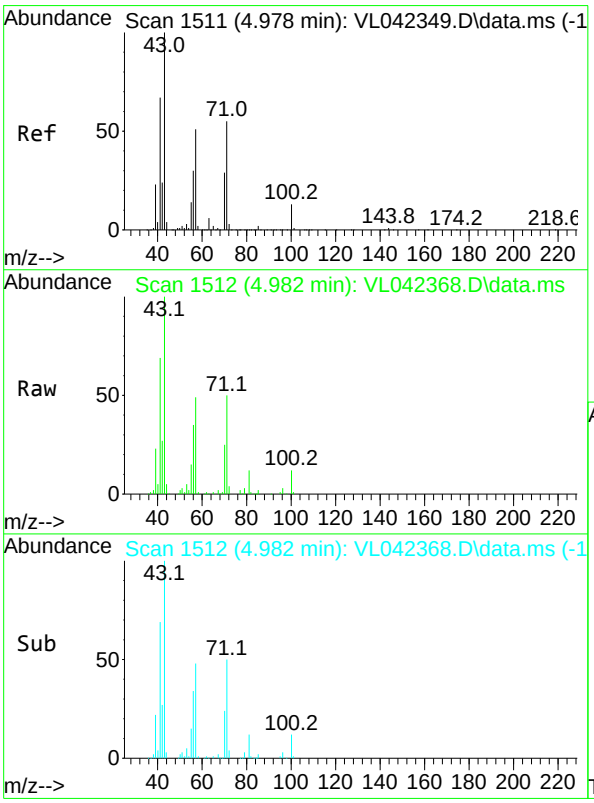
Ion	Ratio	Lower	Upper
41	100		
42	319.5	56.2	84.4



Instrument :
MSVOA_L
ClientSampleId :
IA-B2-2-03312025

Manual Integrations
APPROVED

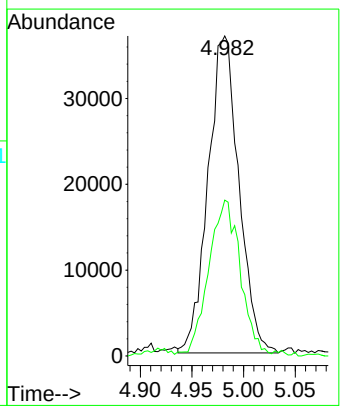
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

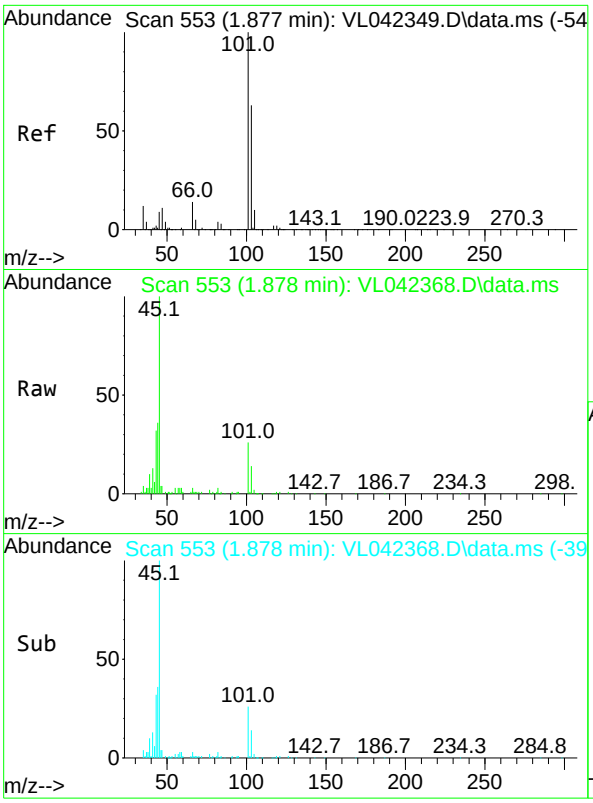


#10
Heptane
Concen: 2.990 ppbv
RT: 4.982 min Scan# 1512
Delta R.T. 0.004 min
Lab File: VL042368.D
Acq: 17 Apr 2025 21:12

Tgt Ion: 43 Resp: 76723

Ion	Ratio	Lower	Upper
43	100		
57	51.7	39.9	59.9

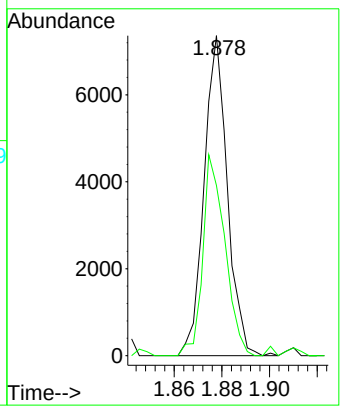




#11
Trichlorofluoromethane
Concen: 0.249 ppbv
RT: 1.878 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL042368.D
Acq: 17 Apr 2025 21:12

Tgt Ion:101 Resp: 499

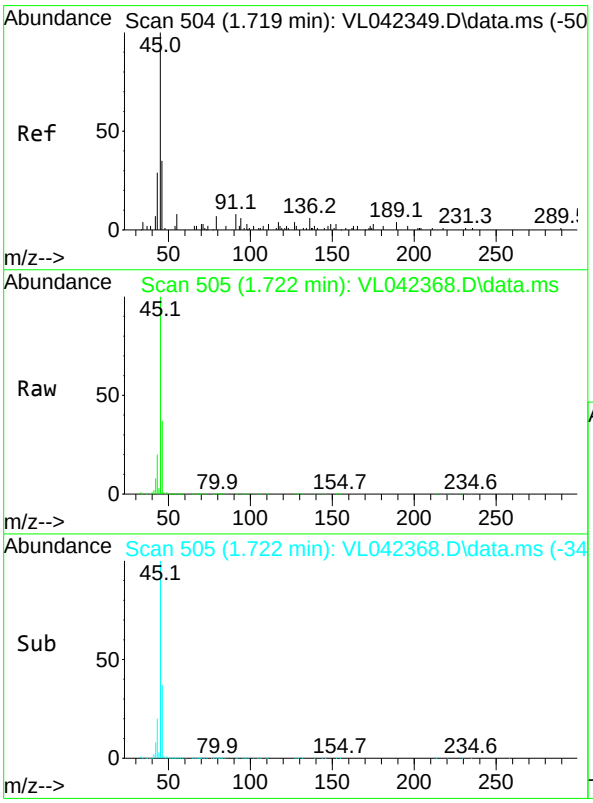
Ion	Ratio	Lower	Upper
101	100		
103	53.2	50.1	75.1



Instrument :
MSVOA_L
ClientSampleId :
IA-B2-2-03312025

Manual Integrations
APPROVED

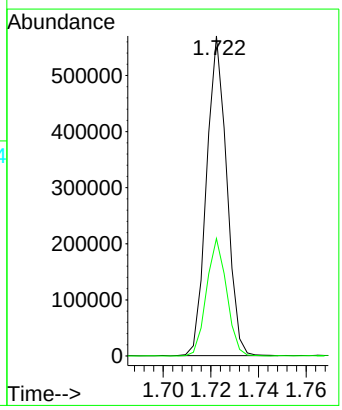
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

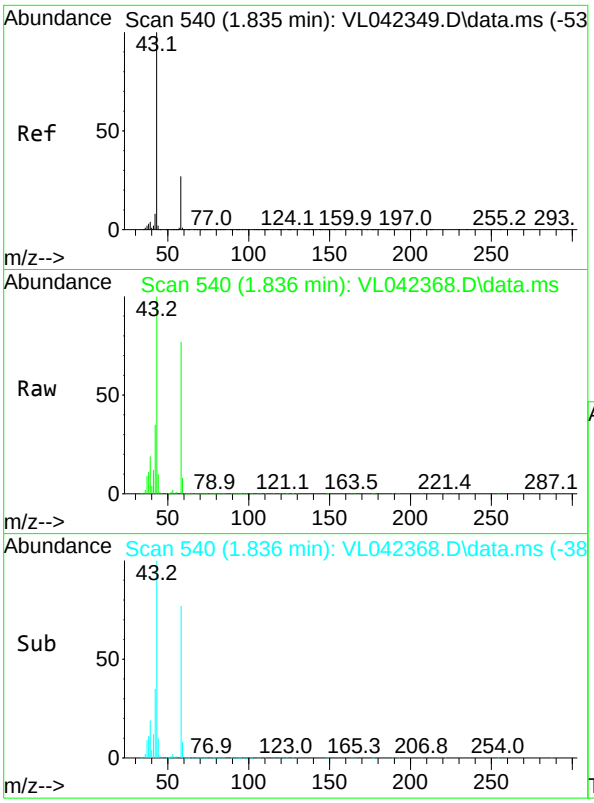


#13
Ethanol
Concen: 230.163 ppbv
RT: 1.722 min Scan# 505
Delta R.T. 0.003 min
Lab File: VL042368.D
Acq: 17 Apr 2025 21:12

Tgt Ion: 45 Resp: 334088

Ion	Ratio	Lower	Upper
45	100		
46	36.9	21.9	87.7

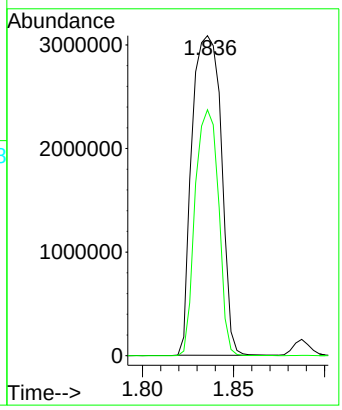




#15
Acetone
Concen: 176.335 ppbv
RT: 1.836 min Scan# 54
Delta R.T. 0.000 min
Lab File: VL042368.D
Acq: 17 Apr 2025 21:12

Tgt Ion: 43 Resp: 344062

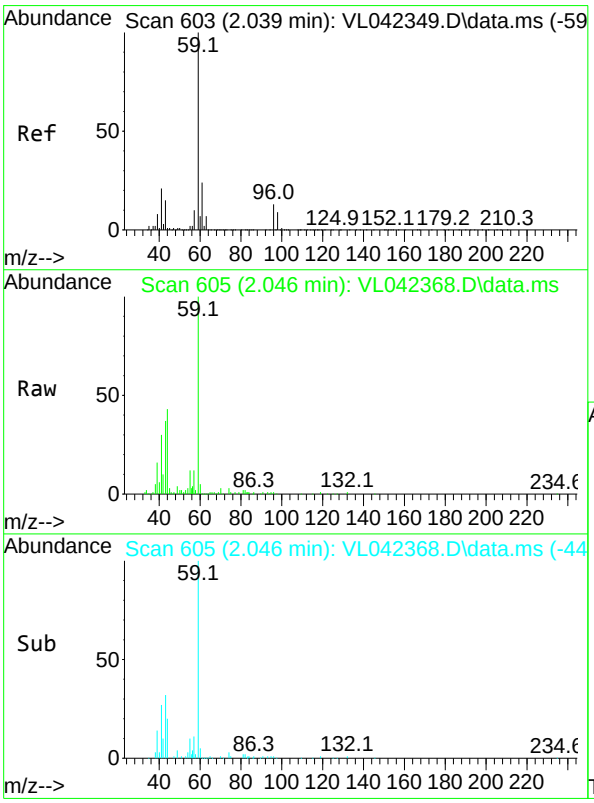
Ion	Ratio	Lower	Upper
43	100		
58	61.6	22.4	33.6#



Instrument :
MSVOA_L
ClientSampleId :
IA-B2-2-03312025

Manual Integrations
APPROVED

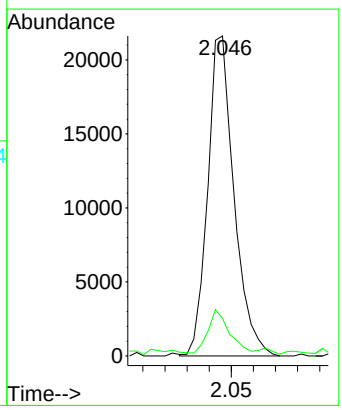
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

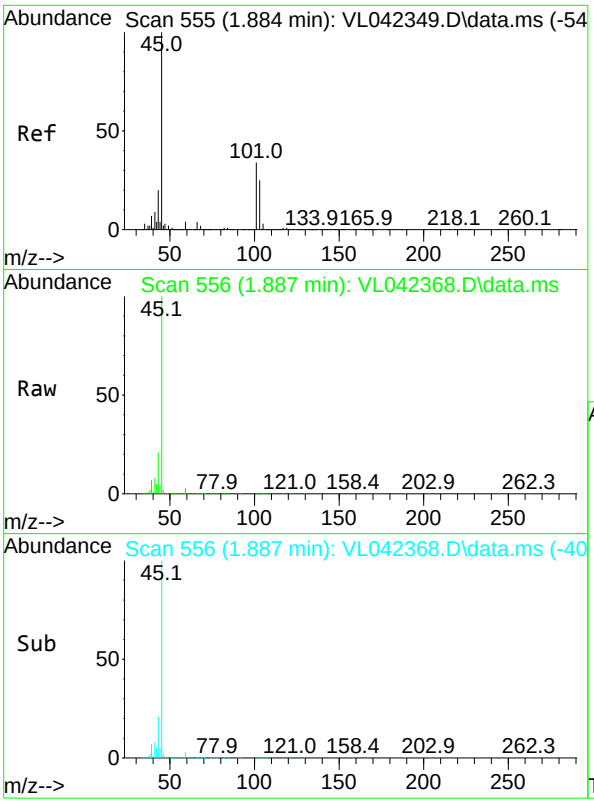


#17
tert-Butyl alcohol
Concen: 0.740 ppbv m
RT: 2.046 min Scan# 605
Delta R.T. 0.007 min
Lab File: VL042368.D
Acq: 17 Apr 2025 21:12

Tgt Ion: 59 Resp: 17897

Ion	Ratio	Lower	Upper
59	100		
57	23.6	8.7	13.1#

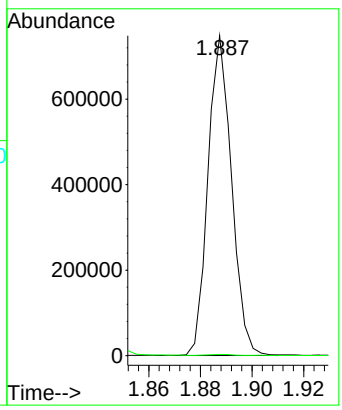




#19
Isopropyl Alcohol
Concen: 43.709 ppbv
RT: 1.887 min Scan# 5
Delta R.T. 0.004 min
Lab File: VL042368.D
Acq: 17 Apr 2025 21:12

Tgt Ion: 45 Resp: 47376

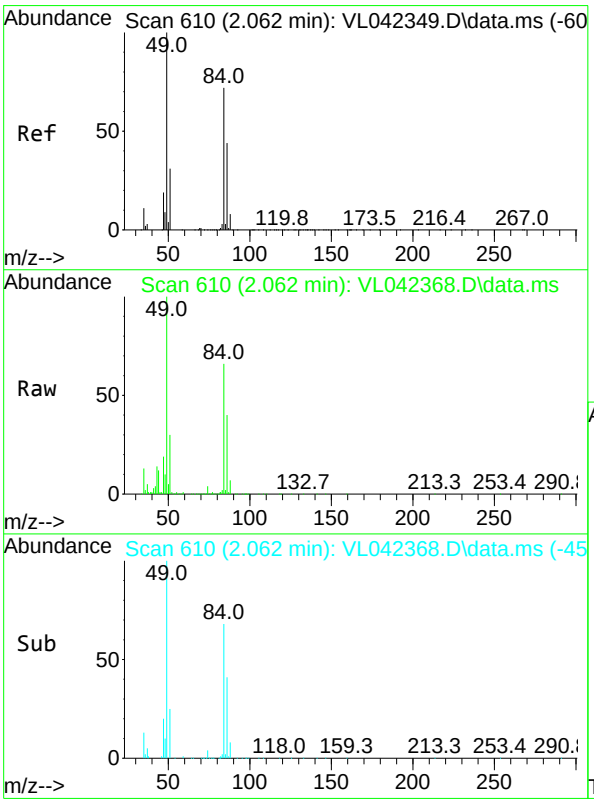
Ion	Ratio	Lower	Upper
45	100		
58	0.0	34.5	51.7



Instrument :
MSVOA_L
ClientSampleId :
IA-B2-2-03312025

Manual Integrations
APPROVED

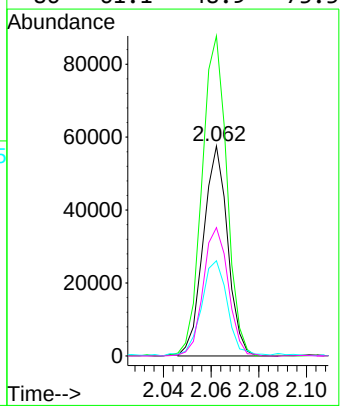
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

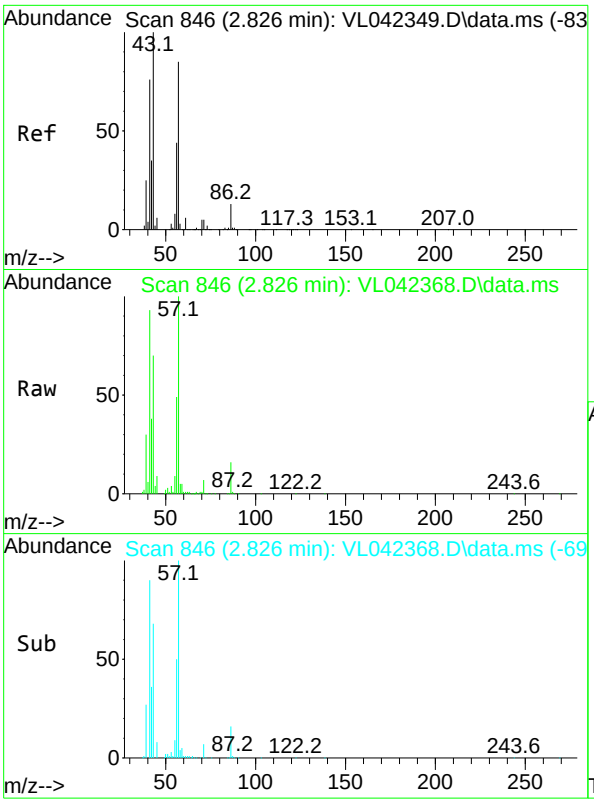


#20
Methylene Chloride
Concen: 5.357 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.000 min
Lab File: VL042368.D
Acq: 17 Apr 2025 21:12

Tgt Ion: 84 Resp: 40932

Ion	Ratio	Lower	Upper
84	100		
49	151.7	111.6	167.4
51	44.5	35.1	52.7
86	61.1	48.9	73.3

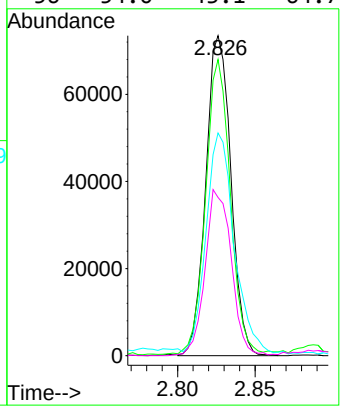




#26
Hexane
Concen: 4.261 ppbv
RT: 2.826 min Scan# 84
Delta R.T. 0.000 min
Lab File: VL042368.D
Acq: 17 Apr 2025 21:12

Tgt Ion: 57 Resp: 8295

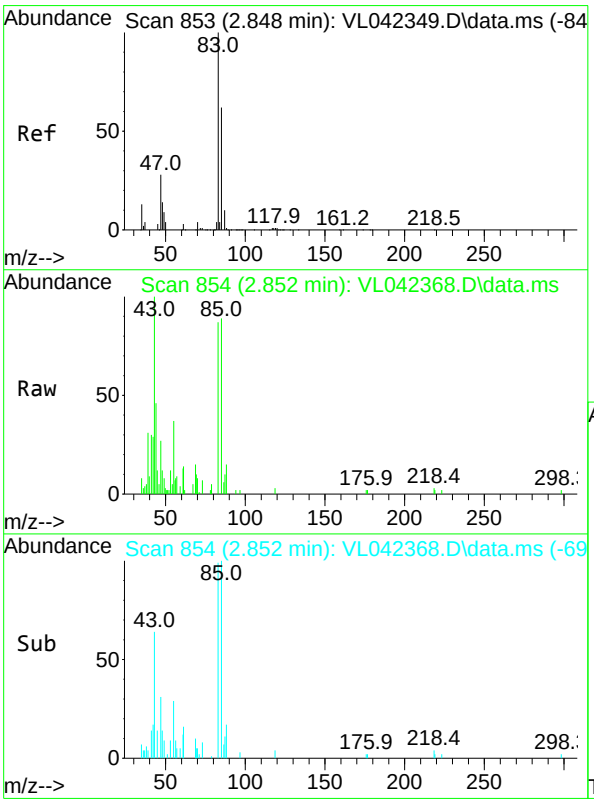
Ion	Ratio	Lower	Upper
57	100		
41	90.3	77.9	116.9
43	80.7	208.4	312.6#
56	54.0	43.1	64.7



Instrument :
MSVOA_L
ClientSampleId :
IA-B2-2-03312025

Manual Integrations
APPROVED

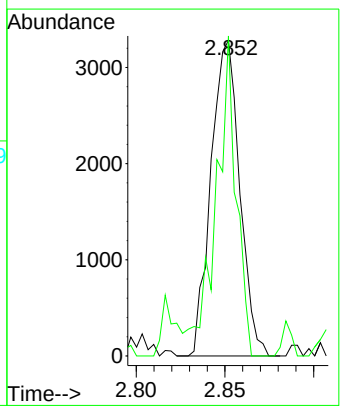
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

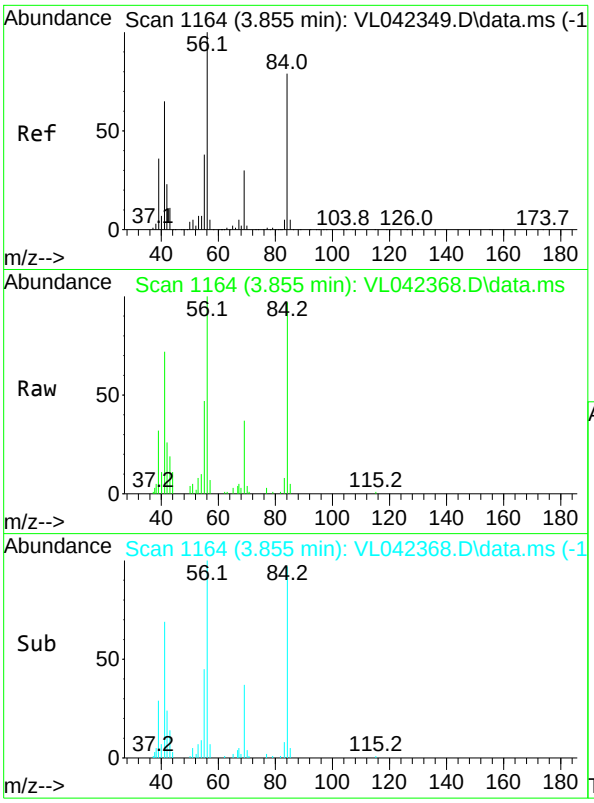


#29
Chloroform
Concen: 0.134 ppbv m
RT: 2.852 min Scan# 854
Delta R.T. 0.003 min
Lab File: VL042368.D
Acq: 17 Apr 2025 21:12

Tgt Ion: 83 Resp: 3693

Ion	Ratio	Lower	Upper
83	100		
85	101.4	50.0	75.0#

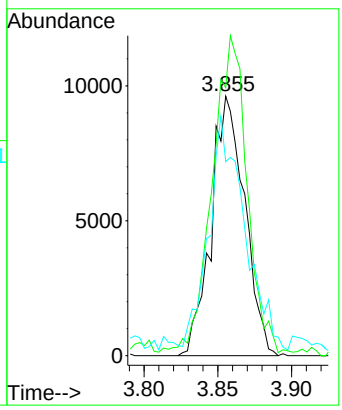




#30
Cyclohexane
Concen: 0.967 ppbv
RT: 3.855 min Scan# 11
Delta R.T. 0.000 min
Lab File: VL042368.D
Acq: 17 Apr 2025 21:12

Tgt Ion: 84 Resp: 1521

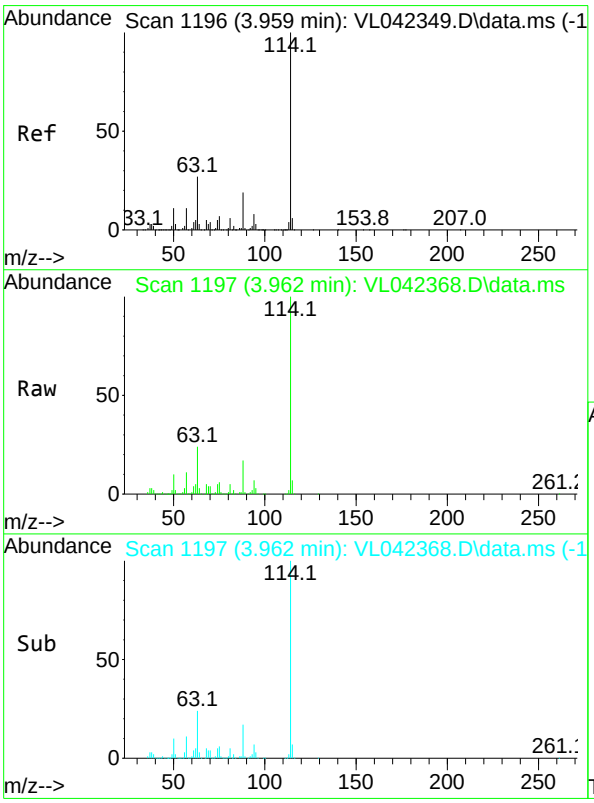
Ion	Ratio	Lower	Upper
84	100		
56	125.5	101.0	151.4
41	103.5	67.4	101.0#



Instrument :
MSVOA_L
ClientSampleId :
IA-B2-2-03312025

Manual Integrations
APPROVED

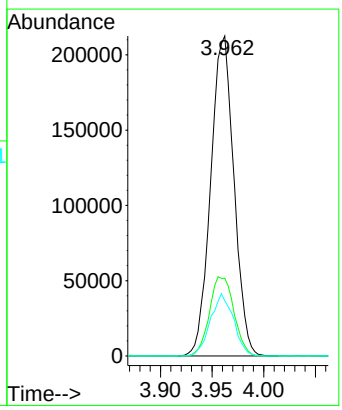
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

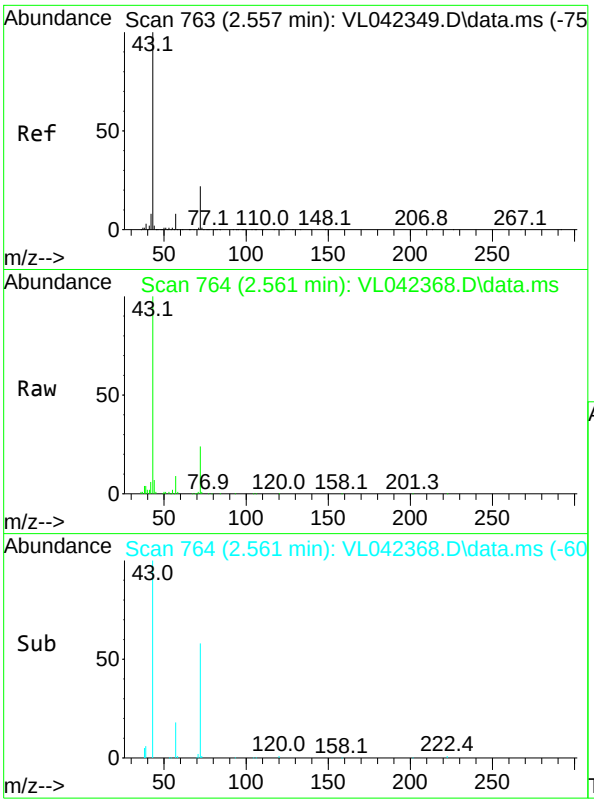


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.962 min Scan# 1197
Delta R.T. 0.004 min
Lab File: VL042368.D
Acq: 17 Apr 2025 21:12

Tgt Ion:114 Resp: 333003

Ion	Ratio	Lower	Upper
114	100		
63	26.1	21.8	32.6
88	19.3	15.5	23.3

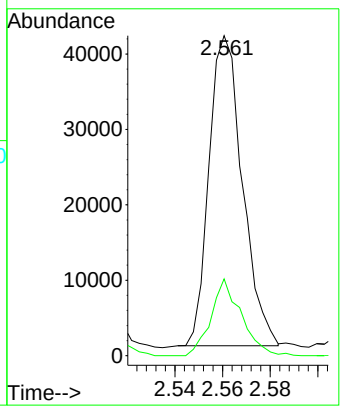




#34
2-Butanone
Concen: 1.520 ppbv
RT: 2.561 min Scan# 7
Delta R.T. 0.004 min
Lab File: VL042368.D
Acq: 17 Apr 2025 21:12

Tgt Ion: 43 Resp: 4004

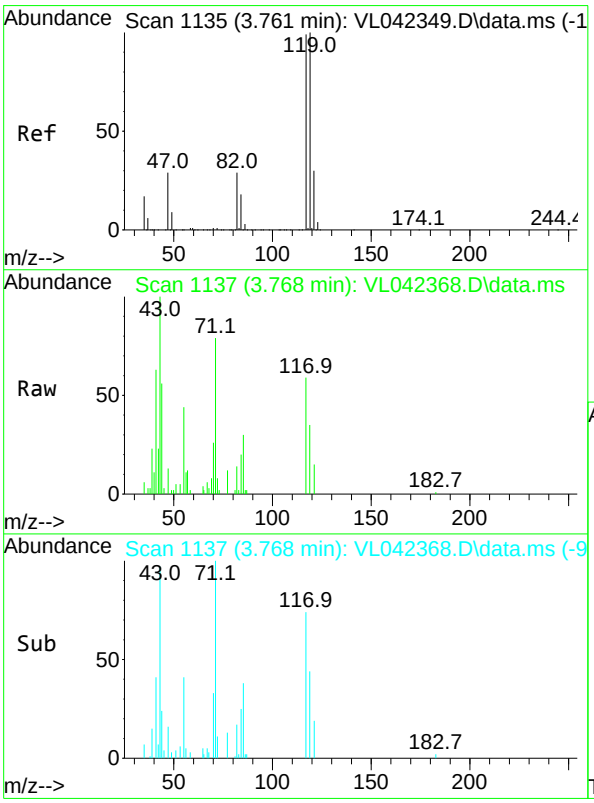
Ion	Ratio	Lower	Upper
43	100		
72	22.5	18.2	27.2



Instrument :
MSVOA_L
ClientSampleId :
IA-B2-2-03312025

Manual Integrations
APPROVED

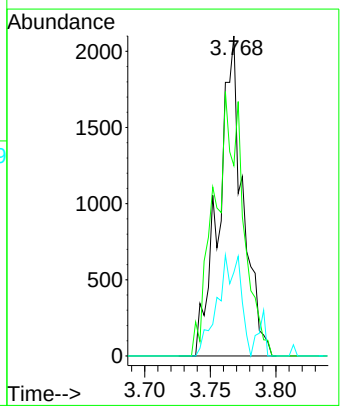
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

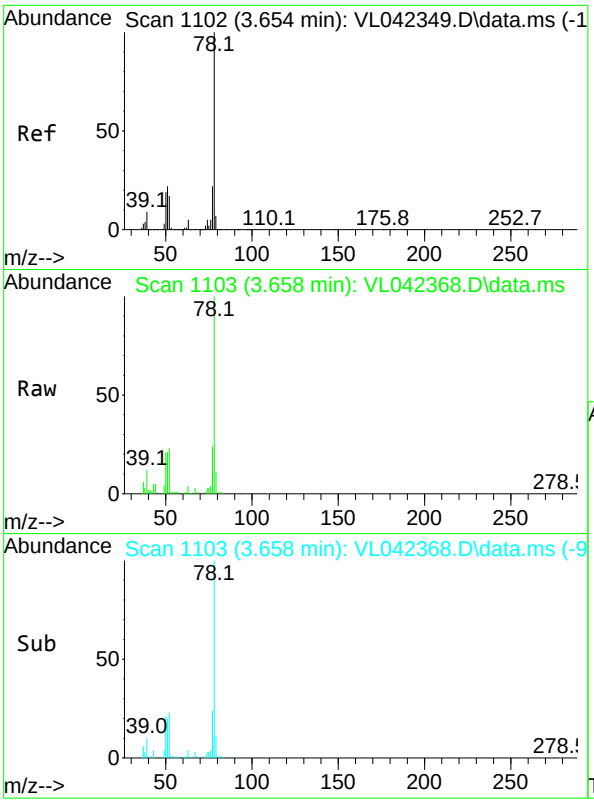


#35
Carbon Tetrachloride
Concen: 0.089 ppbv m
RT: 3.768 min Scan# 1137
Delta R.T. 0.007 min
Lab File: VL042368.D
Acq: 17 Apr 2025 21:12

Tgt Ion:117 Resp: 2692

Ion	Ratio	Lower	Upper
117	100		
119	59.5	80.5	120.7#
121	26.1	24.2	36.2

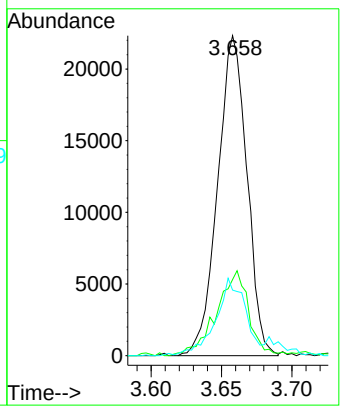




#36
Benzene
Concen: 0.901 ppbv
RT: 3.658 min Scan# 1
Delta R.T. 0.004 min
Lab File: VL042368.D
Acq: 17 Apr 2025 21:12

Tgt Ion: 78 Resp: 3237

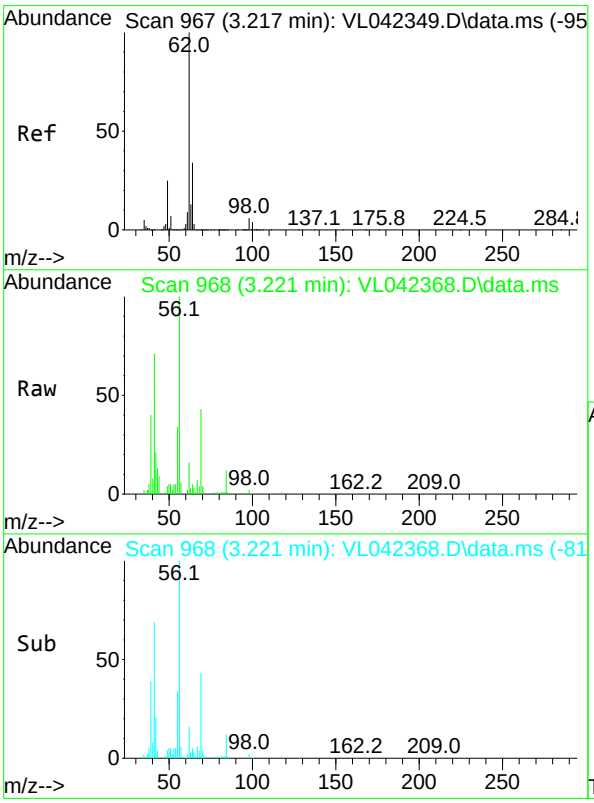
Ion	Ratio	Lower	Upper
78	100		
77	23.0	17.4	26.0
50	19.9	15.5	23.3



Instrument :
MSVOA_L
ClientSampleId :
IA-B2-2-03312025

Manual Integrations
APPROVED

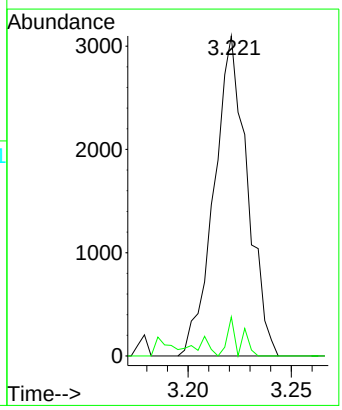
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

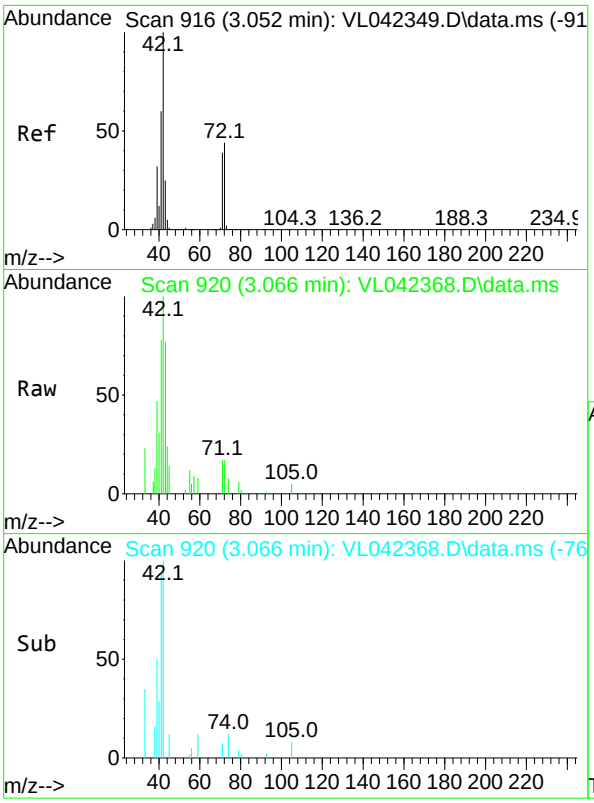


#37
1,2-Dichloroethane
Concen: 0.161 ppbv
RT: 3.221 min Scan# 968
Delta R.T. 0.004 min
Lab File: VL042368.D
Acq: 17 Apr 2025 21:12

Tgt Ion: 62 Resp: 3461

Ion	Ratio	Lower	Upper
62	100		
98	7.9	5.1	7.7#

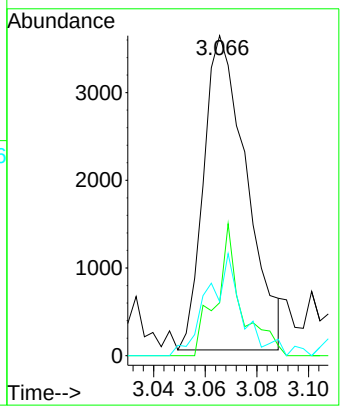




#41
Tetrahydrofuran
Concen: 0.269 ppbv
RT: 3.066 min Scan# 9
Delta R.T. 0.013 min
Lab File: VL042368.D
Acq: 17 Apr 2025 21:12

Tgt Ion: 42 Resp: 413

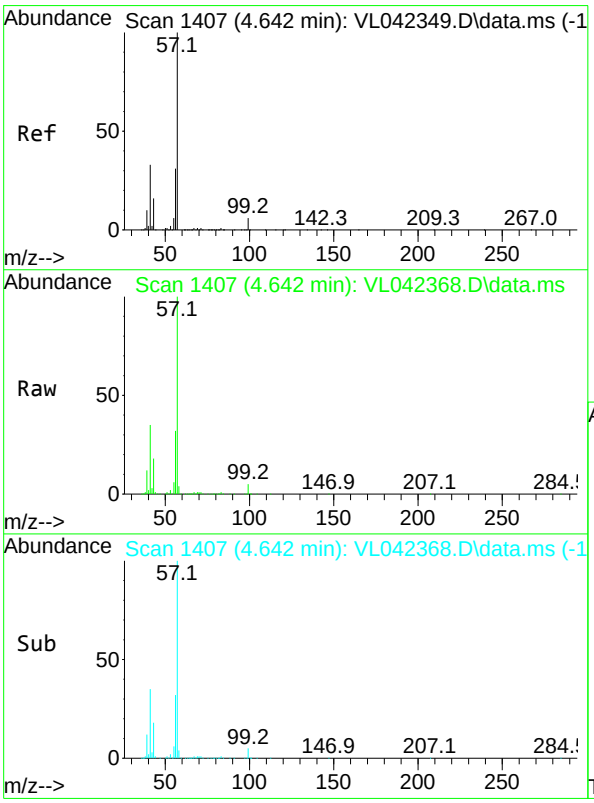
Ion	Ratio	Lower	Upper
42	100		
72	24.8	32.3	48.5#
71	29.5	31.4	47.2#



Instrument :
MSVOA_L
ClientSampleId :
IA-B2-2-03312025

Manual Integrations
APPROVED

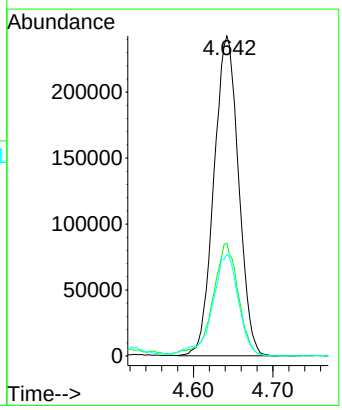
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

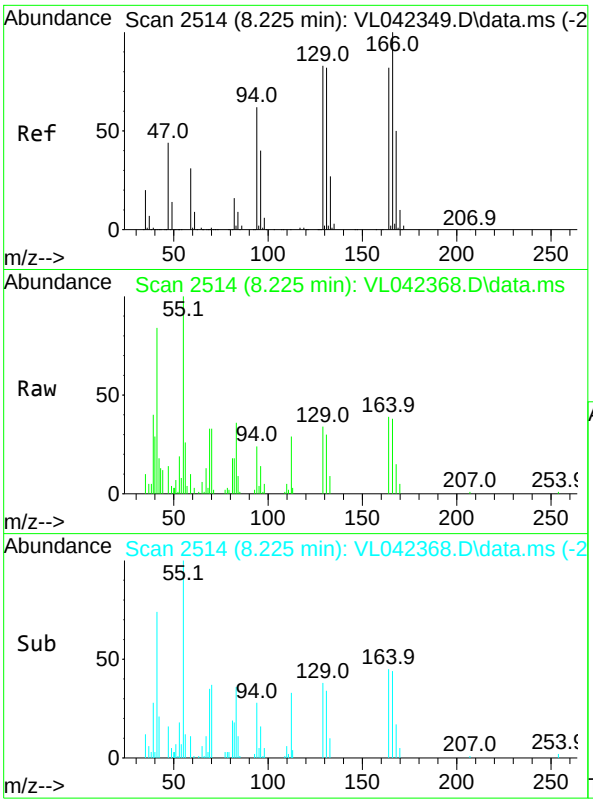


#44
2,2,4-Trimethylpentane
Concen: 8.414 ppbv
RT: 4.642 min Scan# 1407
Delta R.T. 0.000 min
Lab File: VL042368.D
Acq: 17 Apr 2025 21:12

Tgt Ion: 57 Resp: 521960

Ion	Ratio	Lower	Upper
57	100		
41	36.7	27.2	40.8
56	34.1	25.7	38.5

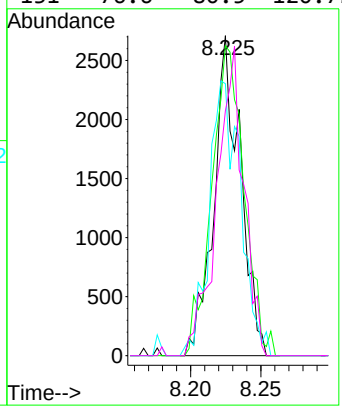




#52
Tetrachloroethene
Concen: 0.257 ppbv m
RT: 8.225 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042368.D
Acq: 17 Apr 2025 21:12

Tgt Ion:164 Resp: 356

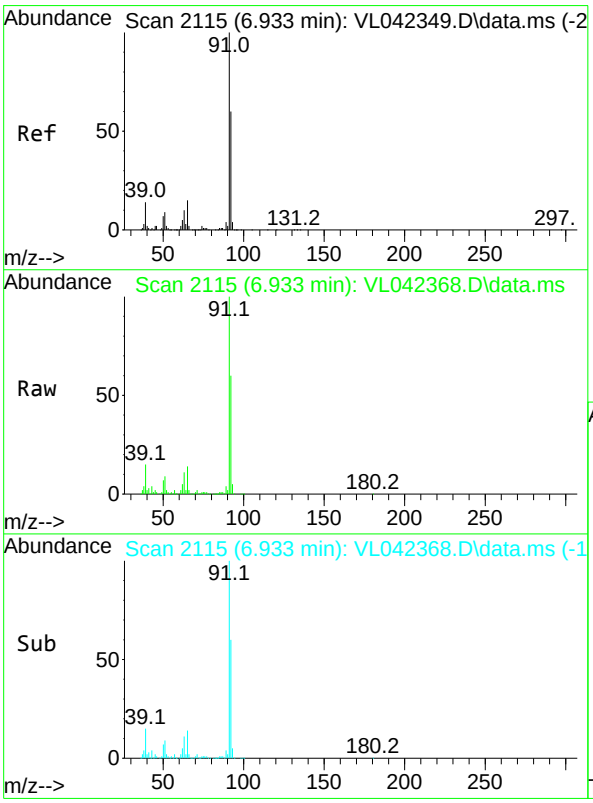
Ion	Ratio	Lower	Upper
164	100		
166	96.9	98.2	147.2#
129	85.0	81.8	122.8
131	76.6	80.5	120.7#



Instrument :
MSVOA_L
ClientSampleId :
IA-B2-2-03312025

Manual Integrations
APPROVED

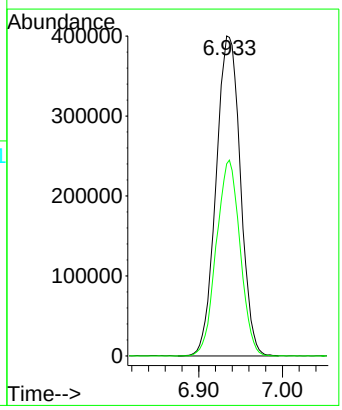
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

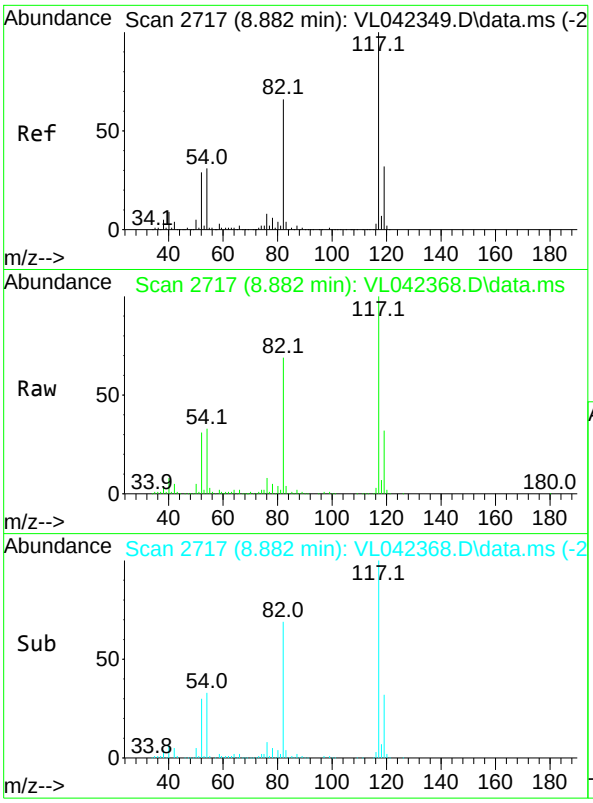


#53
Toluene
Concen: 18.711 ppbv
RT: 6.933 min Scan# 2115
Delta R.T. 0.000 min
Lab File: VL042368.D
Acq: 17 Apr 2025 21:12

Tgt Ion: 91 Resp: 806485

Ion	Ratio	Lower	Upper
91	100		
92	59.9	48.2	72.4

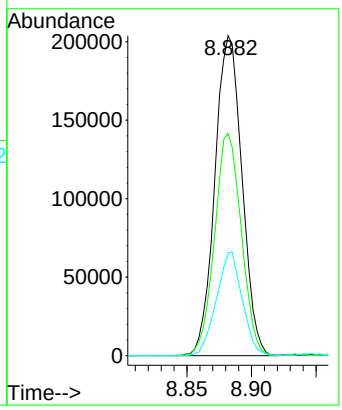




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.882 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042368.D
Acq: 17 Apr 2025 21:12

Tgt Ion:117 Resp: 29749

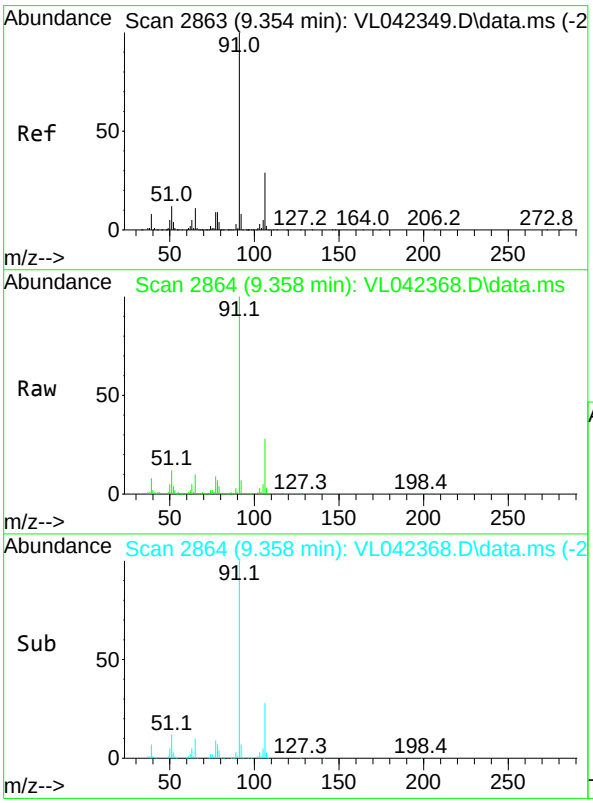
Ion	Ratio	Lower	Upper
117	100		
82	68.6	57.8	86.6
119	30.9	25.2	37.8



Instrument :
MSVOA_L
ClientSampleId :
IA-B2-2-03312025

Manual Integrations
APPROVED

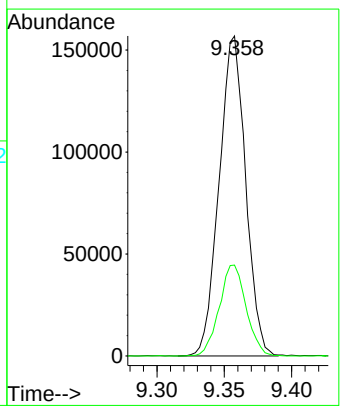
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

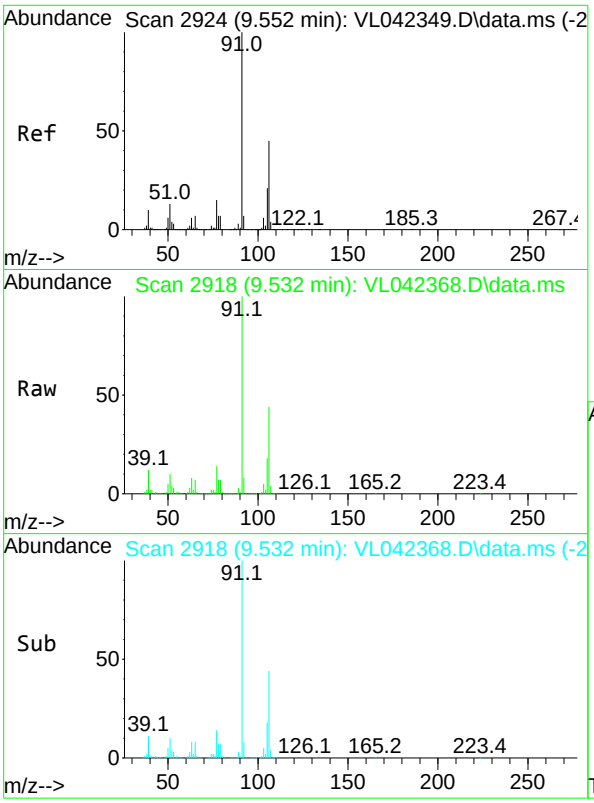


#58
Ethyl Benzene
Concen: 3.643 ppbv
RT: 9.358 min Scan# 2864
Delta R.T. 0.004 min
Lab File: VL042368.D
Acq: 17 Apr 2025 21:12

Tgt Ion: 91 Resp: 214751

Ion	Ratio	Lower	Upper
91	100		
106	28.4	23.0	34.4





#59
m/p-Xylene
Concen: 12.631 ppbv
RT: 9.532 min Scan# 2
Delta R.T. -0.019 min
Lab File: VL042368.D
Acq: 17 Apr 2025 21:12

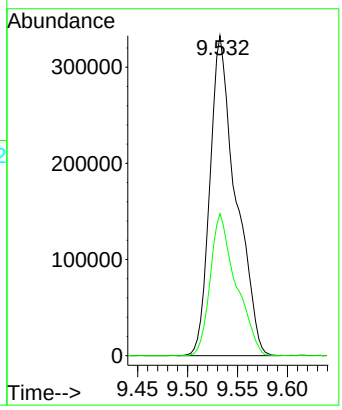
Tgt Ion: 91 Resp: 59974

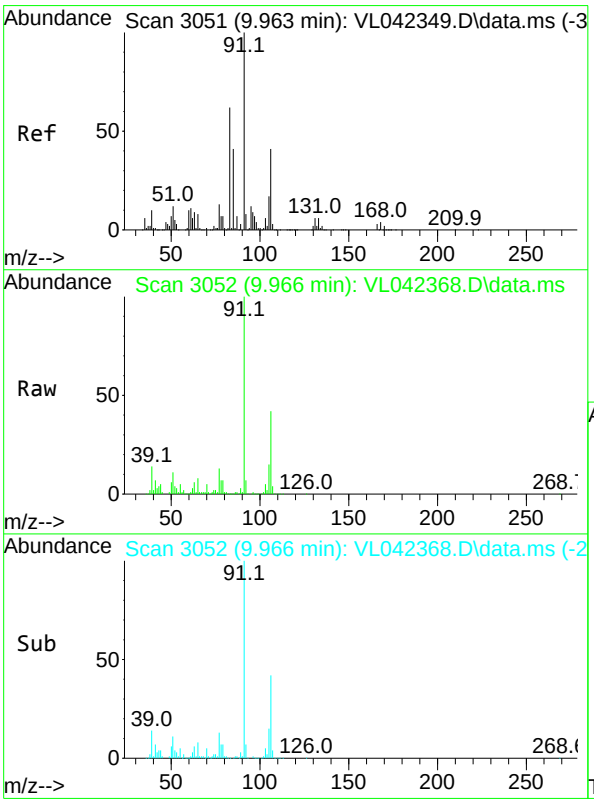
Ion	Ratio	Lower	Upper
91	100		
106	44.1	35.4	53.2

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-2-03312025

Manual Integrations
APPROVED

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

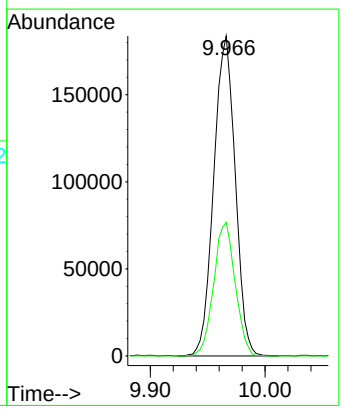


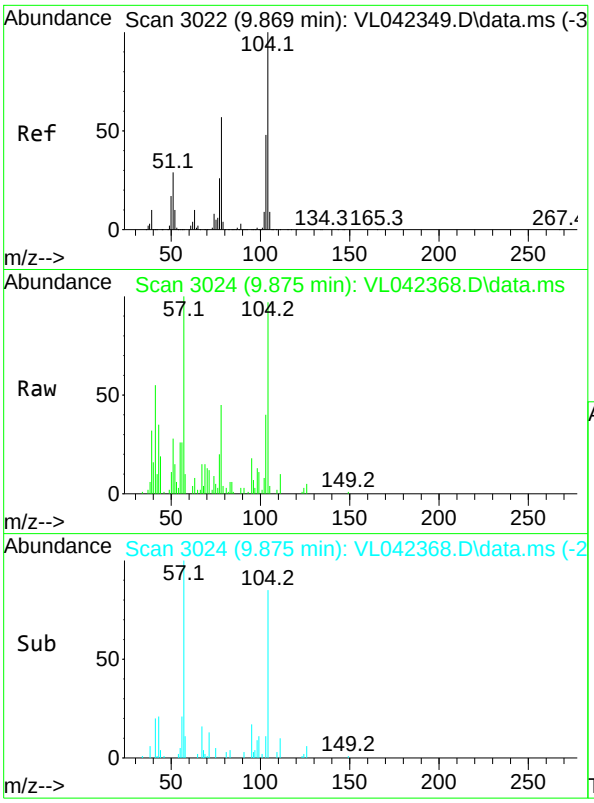


#60
o-Xylene
Concen: 4.992 ppbv
RT: 9.966 min Scan# 3052
Delta R.T. 0.004 min
Lab File: VL042368.D
Acq: 17 Apr 2025 21:12

Tgt Ion: 91 Resp: 238681

Ion	Ratio	Lower	Upper
91	100		
106	41.8	21.1	63.4

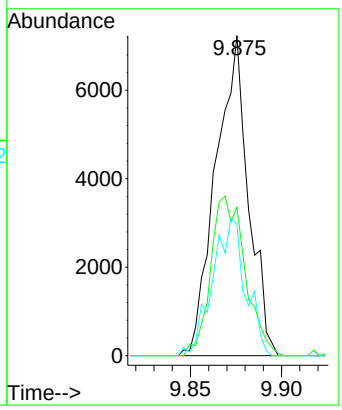




#61
Styrene
Concen: 0.395 ppbv
RT: 9.875 min Scan# 3
Delta R.T. 0.007 min
Lab File: VL042368.D
Acq: 17 Apr 2025 21:12

Tgt Ion:104 Resp: 902

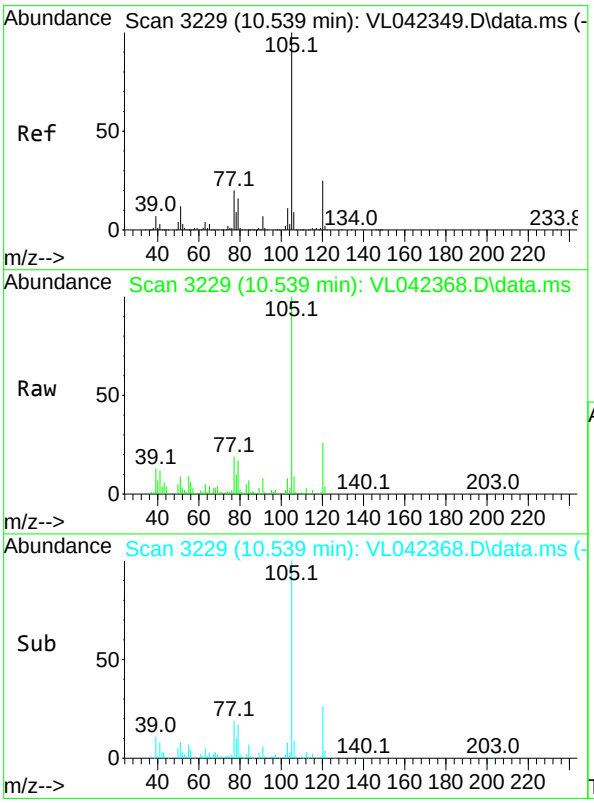
Ion	Ratio	Lower	Upper
104	100		
78	52.5	44.6	66.8
103	43.6	37.4	56.0



Instrument :
MSVOA_L
ClientSampleId :
IA-B2-2-03312025

Manual Integrations
APPROVED

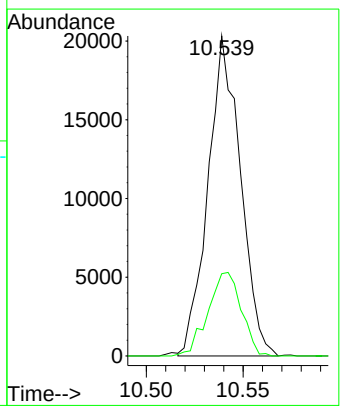
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

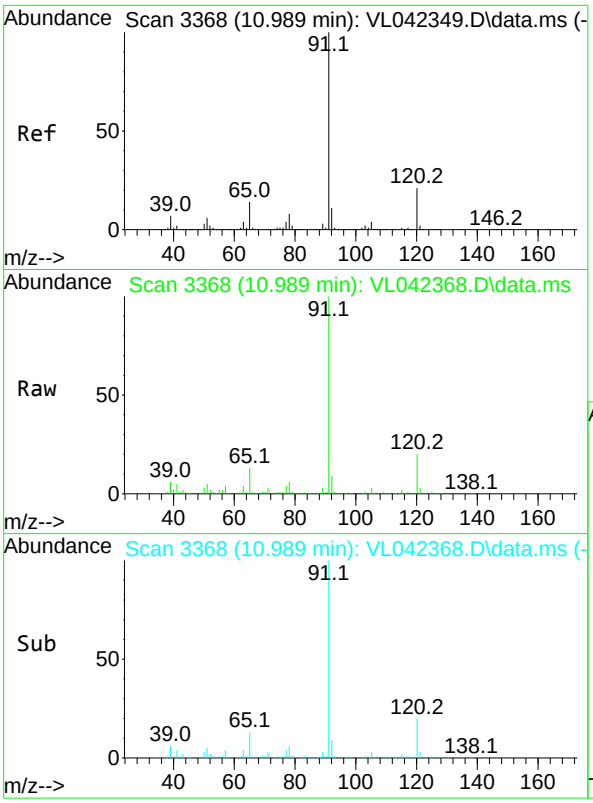


#62
Isopropylbenzene
Concen: 0.337 ppbv
RT: 10.539 min Scan# 3229
Delta R.T. 0.000 min
Lab File: VL042368.D
Acq: 17 Apr 2025 21:12

Tgt Ion:105 Resp: 23690

Ion	Ratio	Lower	Upper
105	100		
120	26.8	19.8	29.8

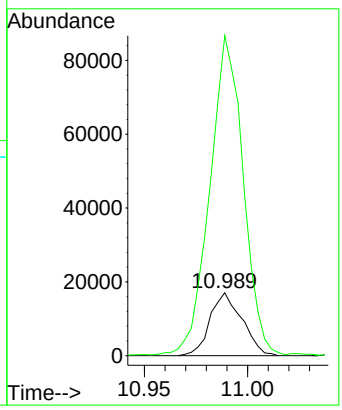




#64
n-propylbenzene
Concen: 1.044 ppbv
RT: 10.989 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042368.D
Acq: 17 Apr 2025 21:12

Tgt Ion:120 Resp: 1842

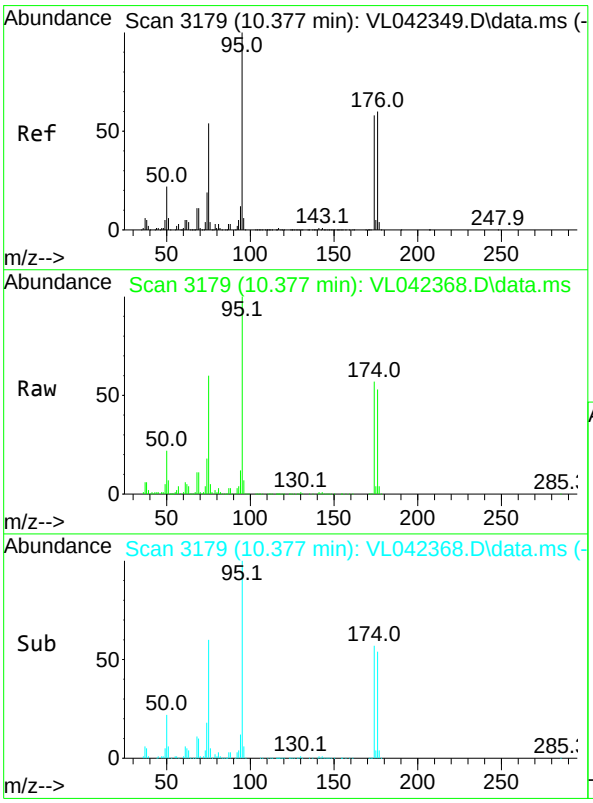
Ion	Ratio	Lower	Upper
120	100		
91	530.0	392.4	588.6



Instrument :
MSVOA_L
ClientSampleId :
IA-B2-2-03312025

Manual Integrations
APPROVED

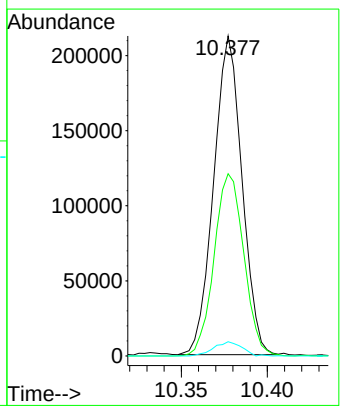
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

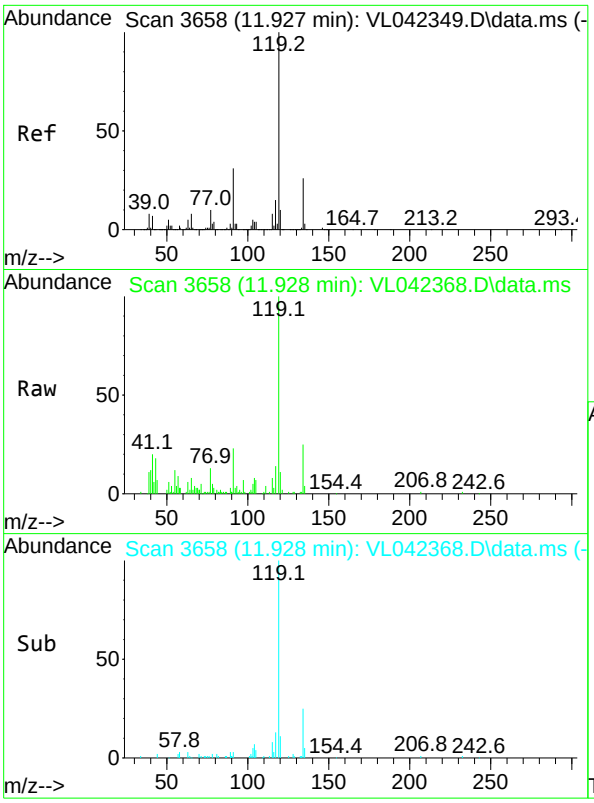


#68
1-Bromo-4-Fluorobenzene
Concen: 9.942 ppbv
RT: 10.377 min Scan# 3179
Delta R.T. 0.000 min
Lab File: VL042368.D
Acq: 17 Apr 2025 21:12

Tgt Ion: 95 Resp: 243044

Ion	Ratio	Lower	Upper
95	100		
174	60.1	48.5	72.7
175	4.4	3.7	5.5

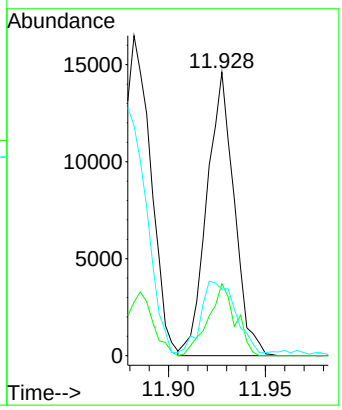




#69
p-Isopropyltoluene
Concen: 0.184 ppbv
RT: 11.928 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042368.D
Acq: 17 Apr 2025 21:12

Tgt Ion:119 Resp: 1431

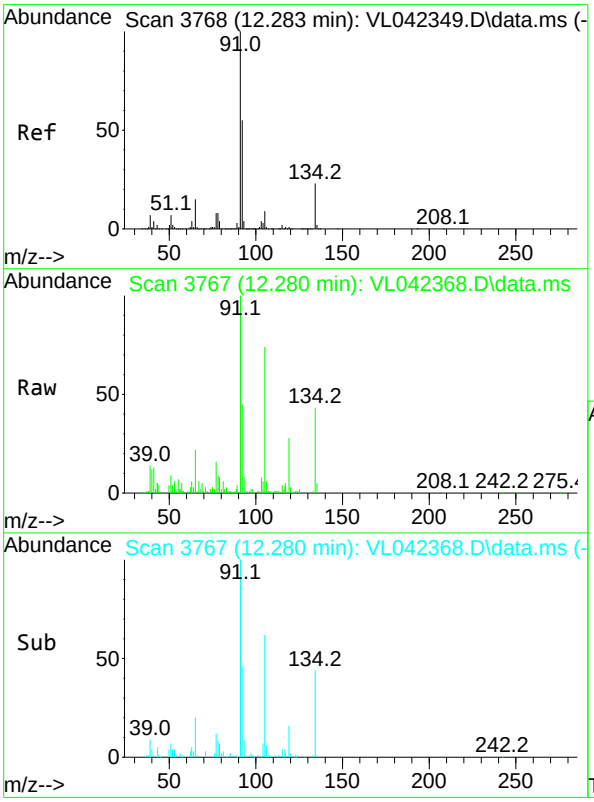
Ion	Ratio	Lower	Upper
119	100		
134	25.4	20.0	30.0
91	34.4	24.4	36.6



Instrument :
MSVOA_L
ClientSampleId :
IA-B2-2-03312025

Manual Integrations
APPROVED

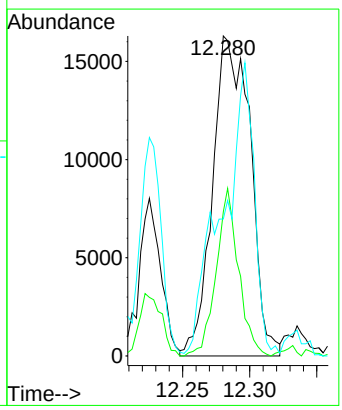
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

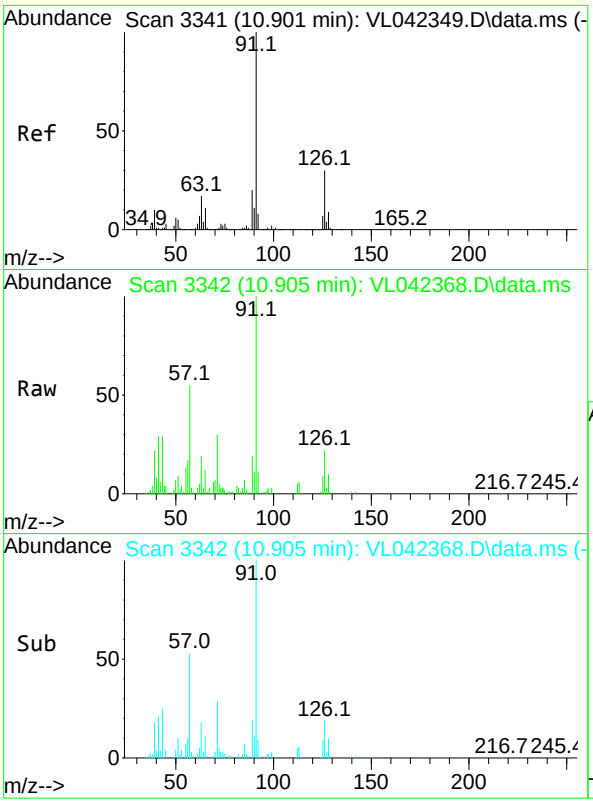


#70
n-Butylbenzene
Concen: 0.391 ppbv m
RT: 12.280 min Scan# 3767
Delta R.T. -0.003 min
Lab File: VL042368.D
Acq: 17 Apr 2025 21:12

Tgt Ion: 91 Resp: 31785

Ion	Ratio	Lower	Upper
91	100		
92	31.2	44.2	66.4#
134	0.0	18.2	27.4#





#71
2-Chlorotoluene
Concen: 0.517 ppbv
RT: 10.905 min Scan# 3
Delta R.T. 0.004 min
Lab File: VL042368.D
Acq: 17 Apr 2025 21:12

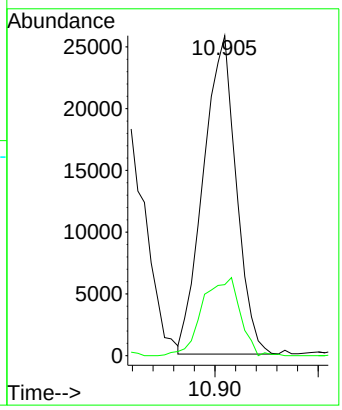
Tgt Ion: 91 Resp: 2849

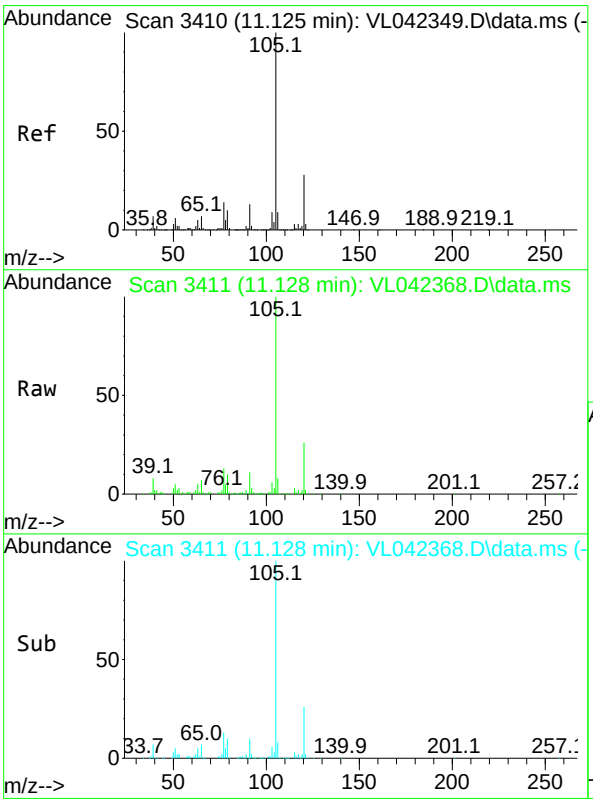
Ion	Ratio	Lower	Upper
91	100		
126	29.0	11.4	45.4

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-2-03312025

Manual Integrations
APPROVED

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

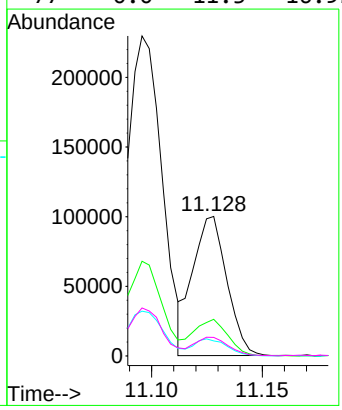


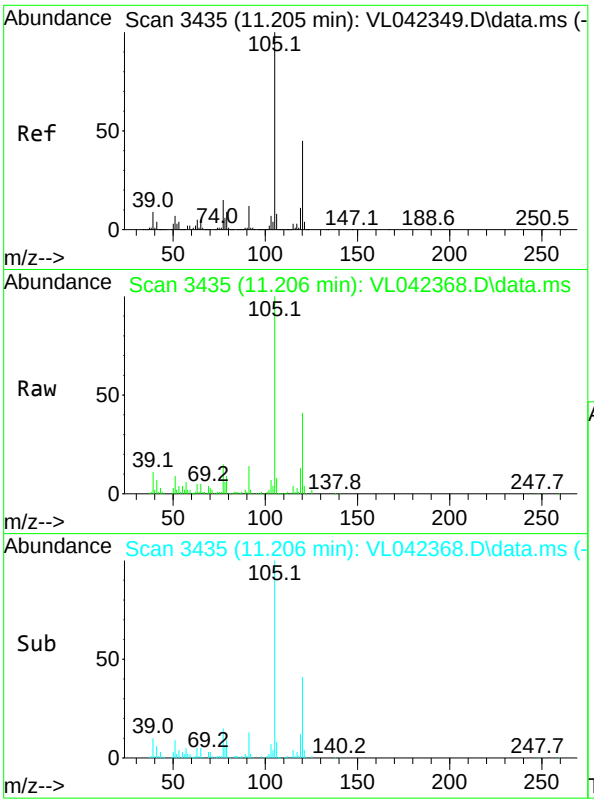


#72
4-Ethyltoluene
Concen: 1.839 ppbv
RT: 11.128 min Scan# 3411
Delta R.T. 0.004 min
Lab File: VL042368.D
Acq: 17 Apr 2025 21:12

Tgt Ion:105 Resp: 107491

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#

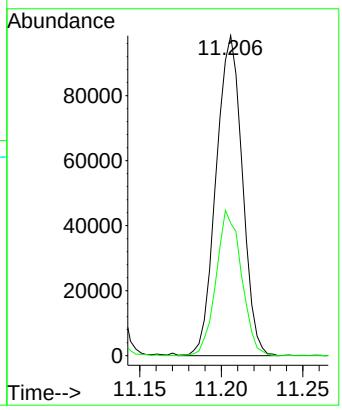




#73
1,3,5-Trimethylbenzene
Concen: 2.130 ppbv
RT: 11.206 min Scan# 34
Delta R.T. 0.000 min
Lab File: VL042368.D
Acq: 17 Apr 2025 21:12

Tgt Ion:105 Resp: 10990

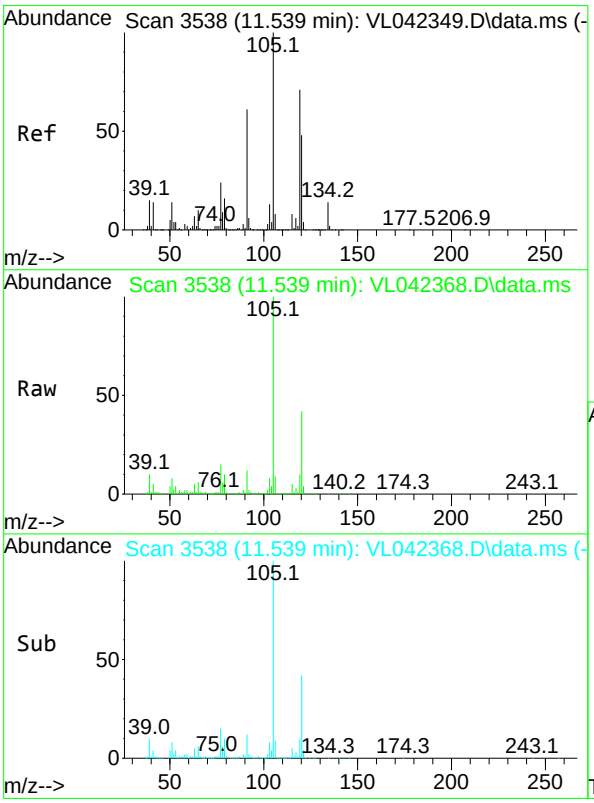
Ion	Ratio	Lower	Upper
105	100		
120	41.4	35.6	53.4



Instrument :
MSVOA_L
ClientSampleId :
IA-B2-2-03312025

Manual Integrations
APPROVED

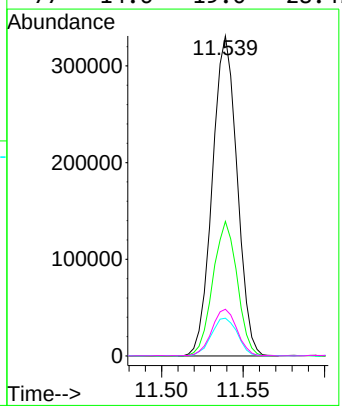
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

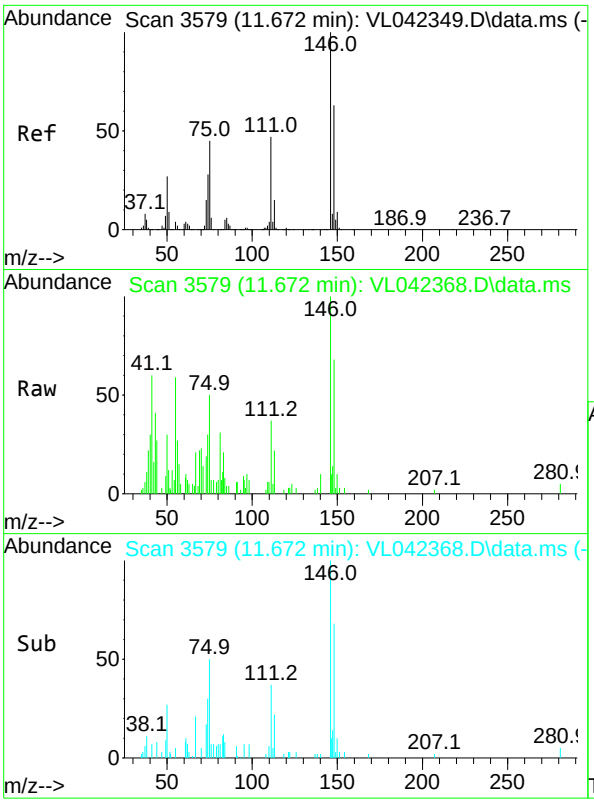


#74
1,2,4-Trimethylbenzene
Concen: 5.794 ppbv
RT: 11.539 min Scan# 3538
Delta R.T. 0.000 min
Lab File: VL042368.D
Acq: 17 Apr 2025 21:12

Tgt Ion:105 Resp: 349266

Ion	Ratio	Lower	Upper
105	100		
120	42.1	38.1	57.1
91	11.7	48.8	73.2#
77	14.6	19.0	28.4#

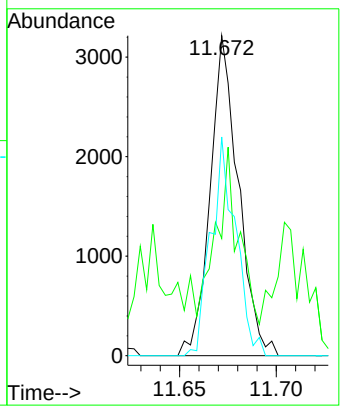




#76
1,4-Dichlorobenzene
Concen: 0.103 ppbv
RT: 11.672 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042368.D
Acq: 17 Apr 2025 21:12

Tgt Ion:146 Resp: 325

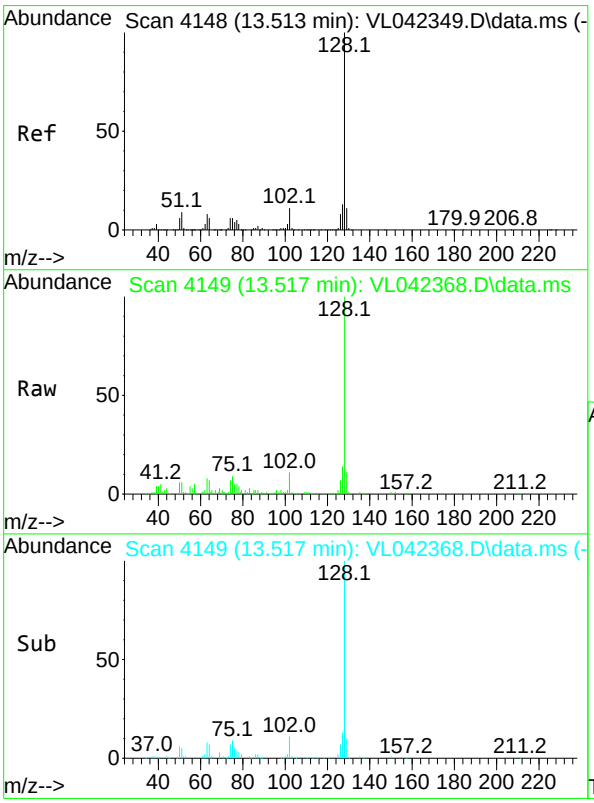
Ion	Ratio	Lower	Upper
146	100		
111	41.6	24.2	72.6
148	60.1	32.1	96.5



Instrument :
MSVOA_L
ClientSampleId :
IA-B2-2-03312025

Manual Integrations
APPROVED

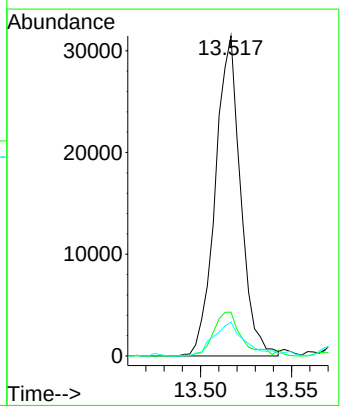
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

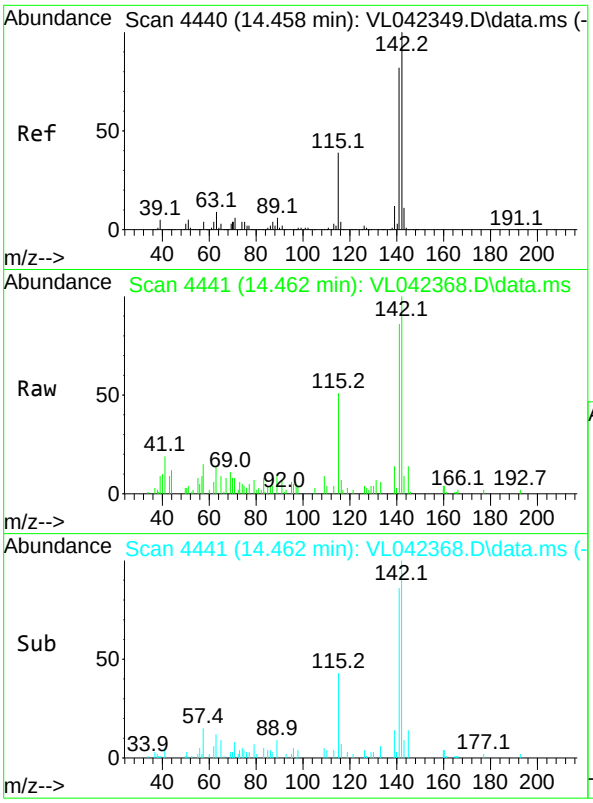


#79
Naphthalene
Concen: 0.420 ppbv
RT: 13.517 min Scan# 4149
Delta R.T. 0.004 min
Lab File: VL042368.D
Acq: 17 Apr 2025 21:12

Tgt Ion:128 Resp: 30244

Ion	Ratio	Lower	Upper
128	100		
127	13.7	10.6	15.8
129	10.6	8.6	12.8

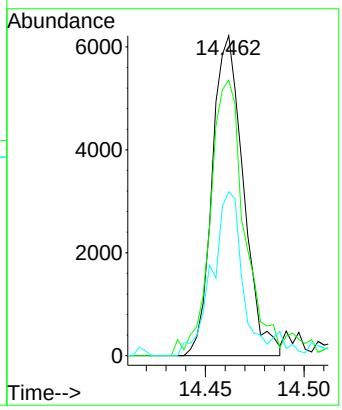




#80
Naphthalene,2-methyl-
Concen: 0.166 ppbv m
RT: 14.462 min Scan# 4
Delta R.T. 0.004 min
Lab File: VL042368.D
Acq: 17 Apr 2025 21:12

Tgt Ion:142 Resp: 683

Ion	Ratio	Lower	Upper
142	100		
141	50.4	66.8	100.2#
115	28.3	33.4	50.2#



Instrument :
MSVOA_L
ClientSampleId :
IA-B2-2-03312025

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 : VL042368.D
Acq On : 17 Apr 2025 21:12
Operator : SY/MD
Sample : Q1726-03
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-2-03312025

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: VL042368.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	4202001	4820620	57.67%	9.685%
2	1.467	423	426	429	rVV	301383	150789	1.80%	0.303%
3	1.489	429	433	438	rVV2	408488	216888	2.59%	0.436%
4	1.525	440	444	450	rVV	701475	376524	4.50%	0.756%
5	1.557	450	454	462	rVV2	1307908	697145	8.34%	1.401%
6	1.622	470	474	478	rVB	719191	384686	4.60%	0.773%
7	1.722	500	505	510	rVB	978488	575283	6.88%	1.156%
8	1.836	535	540	550	rVB	8992481	8359296	100.00%	16.794%
9	1.887	550	556	564	rBV	1162691	748619	8.96%	1.504%
10	2.062	605	610	620	rVB2	285783	244095	2.92%	0.490%
11	2.276	670	676	685	rVB	198088	171969	2.06%	0.345%
12	2.473	733	737	743	rVB	139361	132936	1.59%	0.267%
13	2.625	775	784	792	rVB	110989	121390	1.45%	0.244%
14	2.787	827	834	840	rBV	421079	443819	5.31%	0.892%
15	2.826	840	846	860	rVB	330521	391565	4.68%	0.787%
16	3.231	961	971	979	rVB2	118972	165924	1.98%	0.333%
17	3.282	979	987	998	rVB2	73265	104906	1.25%	0.211%
18	3.655	1086	1102	1108	rBV5	56969	126866	1.52%	0.255%
19	3.687	1108	1112	1127	rVB	108546	163005	1.95%	0.327%
20	3.859	1153	1165	1177	rBV4	50022	98181	1.17%	0.197%
21	3.959	1184	1196	1209	rBV3	553950	898645	10.75%	1.805%
22	4.053	1214	1225	1233	rVV	188176	350500	4.19%	0.704%
23	4.095	1233	1238	1251	rVB4	87481	149250	1.79%	0.300%
24	4.270	1279	1292	1306	rVB4	205824	421597	5.04%	0.847%
25	4.642	1385	1407	1426	rVB2	554929	1285789	15.38%	2.583%
26	4.985	1499	1513	1524	rVB3	157355	315966	3.78%	0.635%
27	5.665	1702	1723	1745	rVB4	115360	333648	3.99%	0.670%
28	6.202	1877	1889	1899	rBV6	69534	187655	2.24%	0.377%
29	6.273	1899	1911	1927	rVB6	84360	234340	2.80%	0.471%
30	6.827	2066	2082	2099	rBV5	254828	627320	7.50%	1.260%
31	6.937	2099	2116	2147	rVB3	1125132	2664888	31.88%	5.354%
32	7.189	2181	2194	2205	rBV5	84751	178313	2.13%	0.358%
33	7.380	2237	2253	2261	rBV3	127935	253654	3.03%	0.510%
34	7.594	2310	2319	2320	rBV2	123907	124907	1.49%	0.251%
35	7.603	2320	2322	2339	rVV7	129267	257200	3.08%	0.517%
36	7.688	2339	2348	2361	rVB5	171593	311289	3.72%	0.625%

LSC Area Percent Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042368.D
Acq On : 17 Apr 2025 21:12
Operator : SY/MD
Sample : Q1726-03
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-2-03312025

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	7.895	2399	2412	2429	rBV3	124373	291449	3.49%	0.586%
38	8.134	2475	2486	2502	rBV8	53638	110696	1.32%	0.222%
39	8.231	2504	2516	2523	rVV8	61328	112472	1.35%	0.226%
40	8.302	2523	2538	2553	rVB5	221229	471782	5.64%	0.948%
41	8.882	2703	2717	2727	rBV	734223	1125315	13.46%	2.261%
42	8.940	2727	2735	2741	rVV2	76102	128197	1.53%	0.258%
43	8.979	2741	2747	2764	rVB8	79278	182704	2.19%	0.367%
44	9.147	2791	2799	2812	rBV2	58776	91394	1.09%	0.184%
45	9.354	2853	2863	2877	rBV	370587	561411	6.72%	1.128%
46	9.494	2897	2906	2911	rBV	374607	476444	5.70%	0.957%
47	9.532	2911	2918	2935	rVB2	954719	1801861	21.56%	3.620%
48	9.733	2967	2980	2990	rVB5	105798	230801	2.76%	0.464%
49	9.859	3006	3019	3029	rBV3	120857	195644	2.34%	0.393%
50	9.966	3037	3052	3075	rVB3	581991	1077907	12.89%	2.166%
51	10.377	3162	3179	3189	rBV2	968887	1394216	16.68%	2.801%
52	10.788	3292	3306	3309	rBV10	70763	138787	1.66%	0.279%
53	10.859	3321	3328	3334	rVB2	163051	192048	2.30%	0.386%
54	10.901	3334	3341	3353	rVB3	127717	169735	2.03%	0.341%
55	10.989	3355	3368	3383	rVB	185916	277115	3.32%	0.557%
56	11.096	3392	3401	3406	rBV	621272	698206	8.35%	1.403%
57	11.125	3406	3410	3418	rVB	248979	276017	3.30%	0.555%
58	11.202	3418	3434	3443	rVB	319726	399475	4.78%	0.803%
59	11.313	3462	3468	3471	rBV2	83982	88158	1.05%	0.177%
60	11.338	3471	3476	3480	rVV	188565	192116	2.30%	0.386%
61	11.377	3480	3488	3501	rVB	6335145	7344406	87.86%	14.755%
62	11.539	3522	3538	3551	rBV	1000057	1176869	14.08%	2.364%
63	11.756	3598	3605	3607	rBV	188389	194224	2.32%	0.390%
64	11.775	3607	3611	3623	rVB	403701	468747	5.61%	0.942%
65	11.879	3626	3643	3651	rBV3	257460	352041	4.21%	0.707%
66	12.021	3677	3687	3690	rBV	135693	168896	2.02%	0.339%
67	12.044	3690	3694	3701	rVB3	175065	180572	2.16%	0.363%
68	12.225	3745	3750	3757	rVB2	192641	202056	2.42%	0.406%
69	12.271	3757	3764	3767	rBV3	78499	93298	1.12%	0.187%
70	12.296	3767	3772	3777	rVB2	129497	134869	1.61%	0.271%
71	12.407	3794	3806	3811	rBV3	90341	112333	1.34%	0.226%
72	12.507	3832	3837	3841	rBV4	149774	174700	2.09%	0.351%
73	12.546	3846	3849	3855	rVB2	103884	96240	1.15%	0.193%
74	12.591	3855	3863	3873	rBV2	168428	236842	2.83%	0.476%
75	12.672	3873	3888	3894	rBV7	109227	168775	2.02%	0.339%
76	12.827	3931	3936	3943	rVB2	184268	180883	2.16%	0.363%

LSC Area Percent Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042368.D
Acq On : 17 Apr 2025 21:12
Operator : SY/MD
Sample : Q1726-03
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-2-03312025

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	12.918	3958	3964	3969	rBV	86571	91139	1.09%	0.183%
78	12.954	3969	3975	3982	rVB	117493	117399	1.40%	0.236%
79	13.229	4053	4060	4064	rBV2	85298	95357	1.14%	0.192%
80	13.387	4101	4109	4116	rVB2	283580	315796	3.78%	0.634%
81	13.727	4207	4214	4220	rBV3	99136	96258	1.15%	0.193%

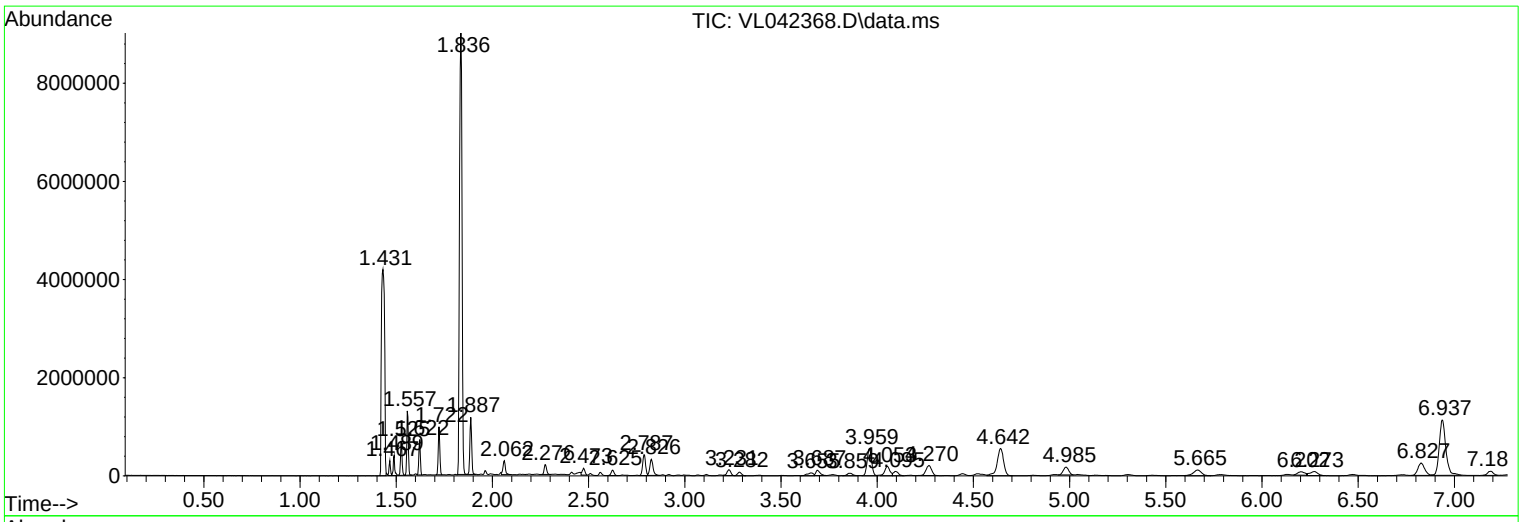
Sum of corrected areas: 49775117

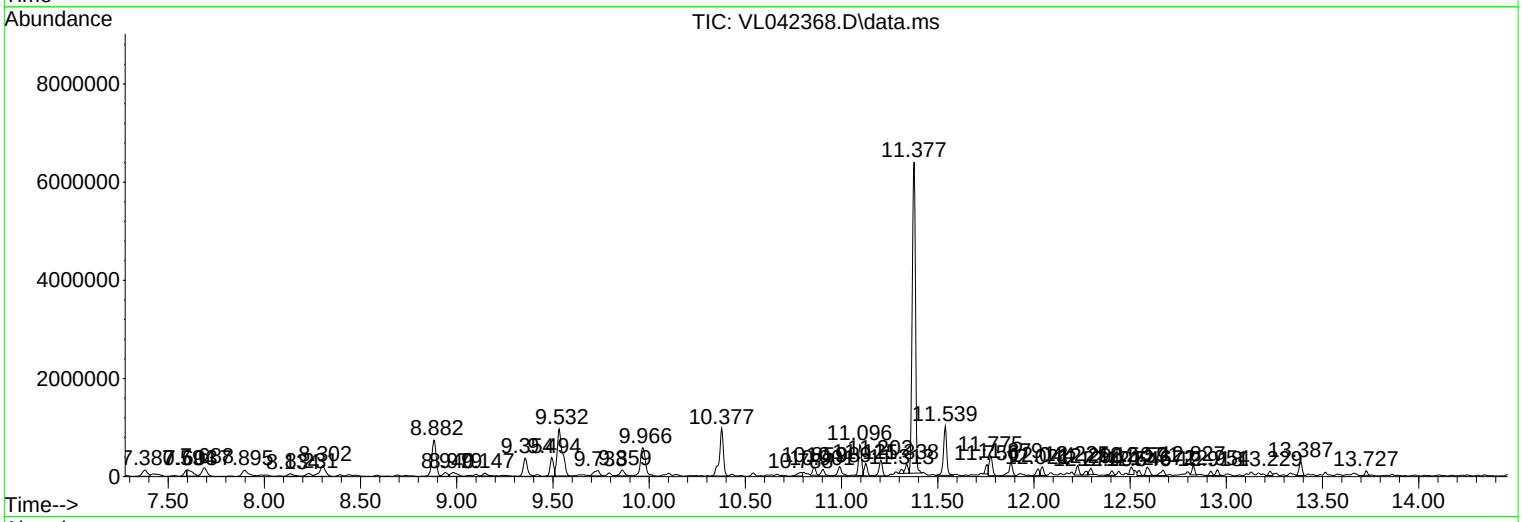
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042368.D
Acq On : 17 Apr 2025 21:12
Operator : SY/MD
Sample : Q1726-03
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

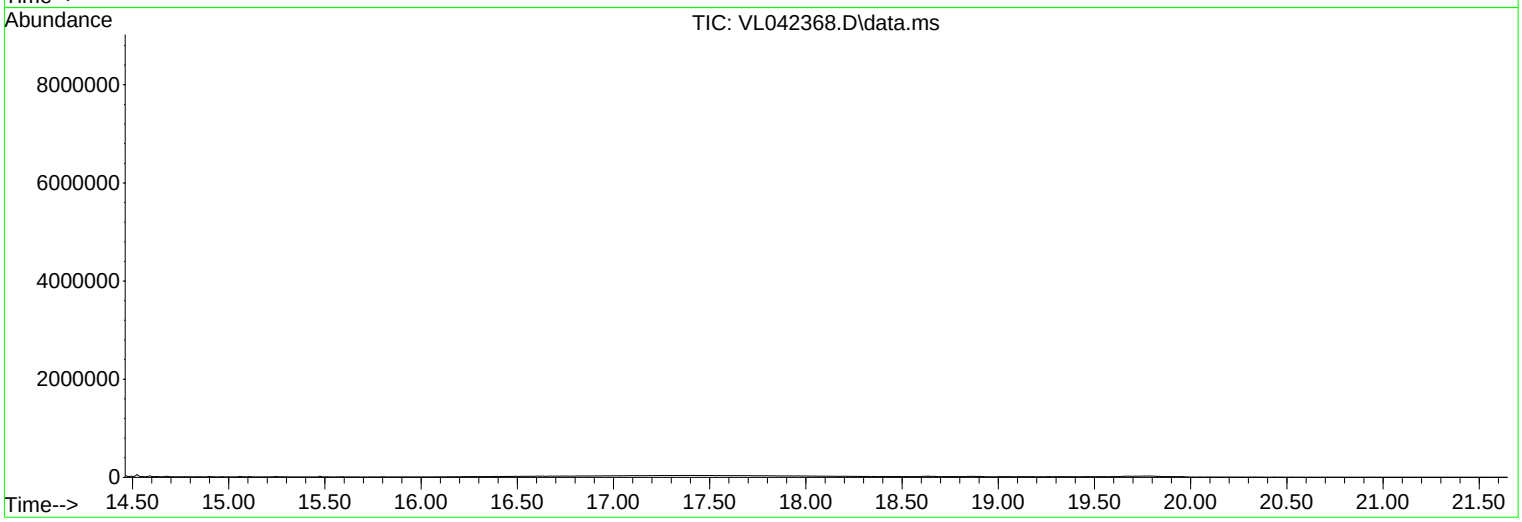
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-2-03312025

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 : VL042368.D
Acq On : 17 Apr 2025 21:12
Operator : SY/MD
Sample : Q1726-03
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-2-03312025

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

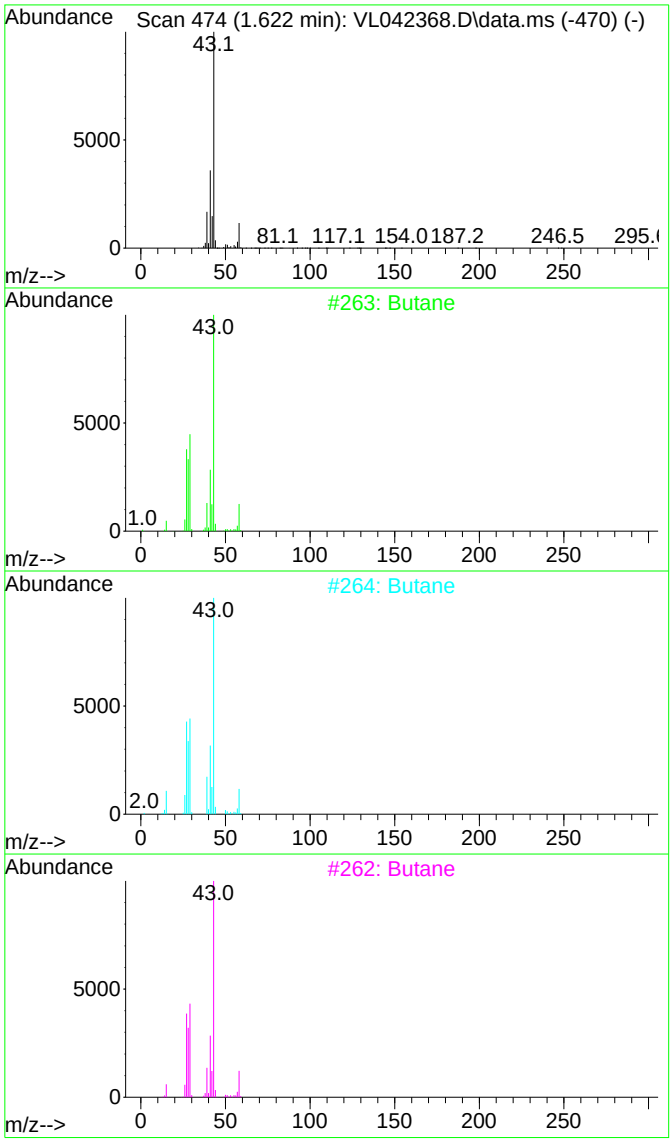
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

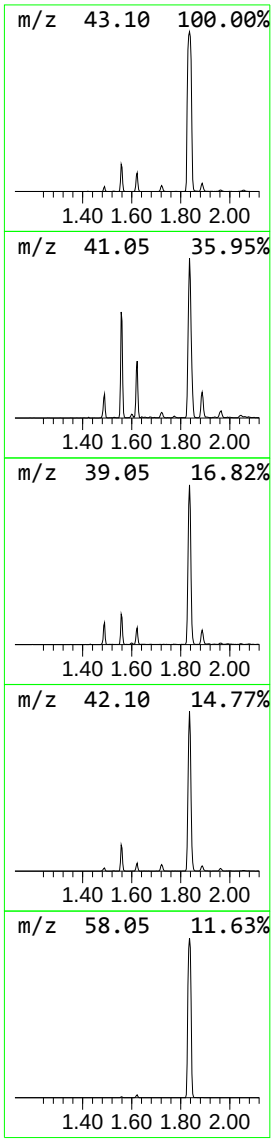
****

Peak Number 1 Butane Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.622	8.67 ppbv	384686	Bromochloromethane	2.787

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane	58	C4H10	000106-97-8	72
2	Butane	58	C4H10	000106-97-8	72
3	Butane	58	C4H10	000106-97-8	72
4	Butane	58	C4H10	000106-97-8	36
5	Isobutane	58	C4H10	000075-28-5	9





Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042368.D
Acq On : 17 Apr 2025 21:12
Operator : SY/MD
Sample : Q1726-03
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-2-03312025

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

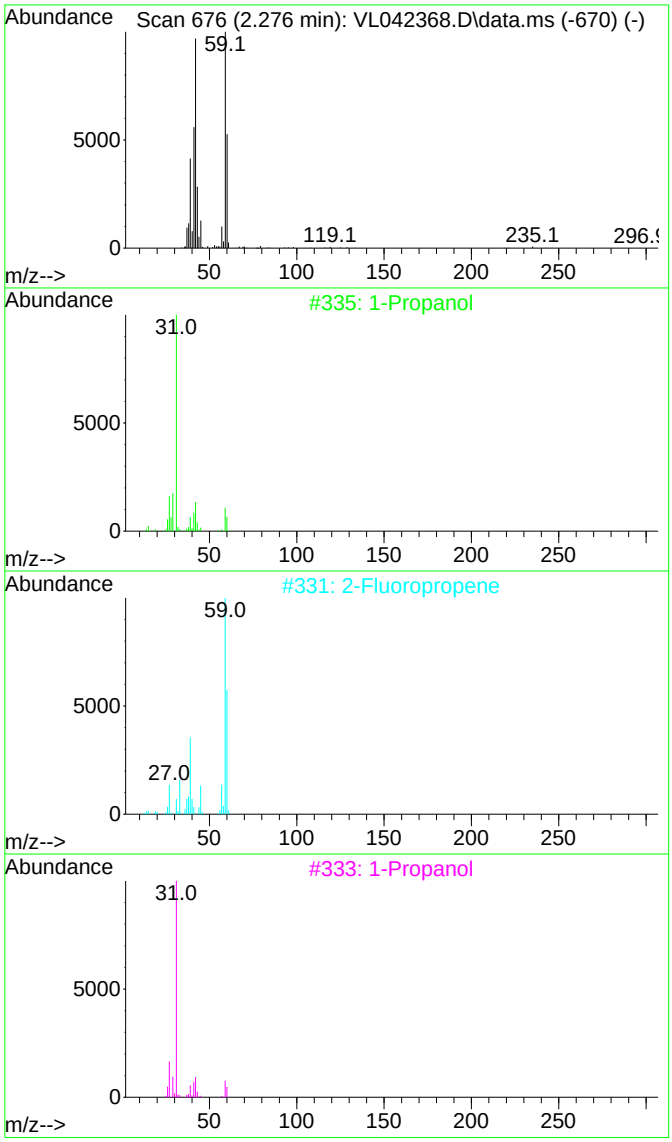
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

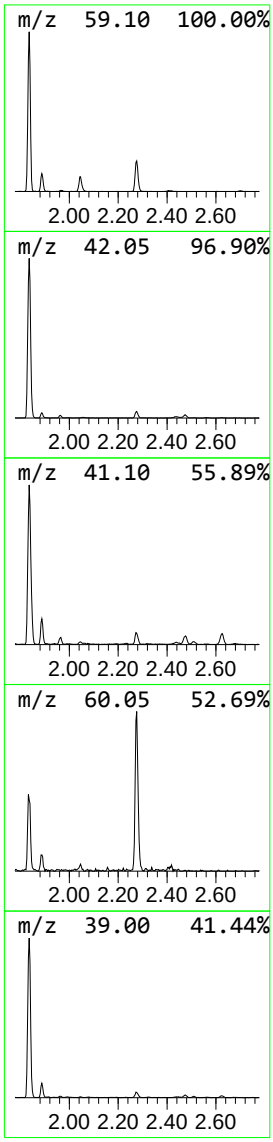
****

Peak Number 2 unknown2.276 Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.276	3.87 ppbv	171969	Bromochloromethane	2.787

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Propanol	60	C3H8O	000071-23-8	46
2	2-Fluoropropene	60	C3H5F	001184-60-7	43
3	1-Propanol	60	C3H8O	000071-23-8	42
4	1-Propanol	60	C3H8O	000071-23-8	37
5	Phosphoric triamide, N,N',N''-tr...	353	C9H24N9O4P	016221-25-3	33





Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042368.D
Acq On : 17 Apr 2025 21:12
Operator : SY/MD
Sample : Q1726-03
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-2-03312025

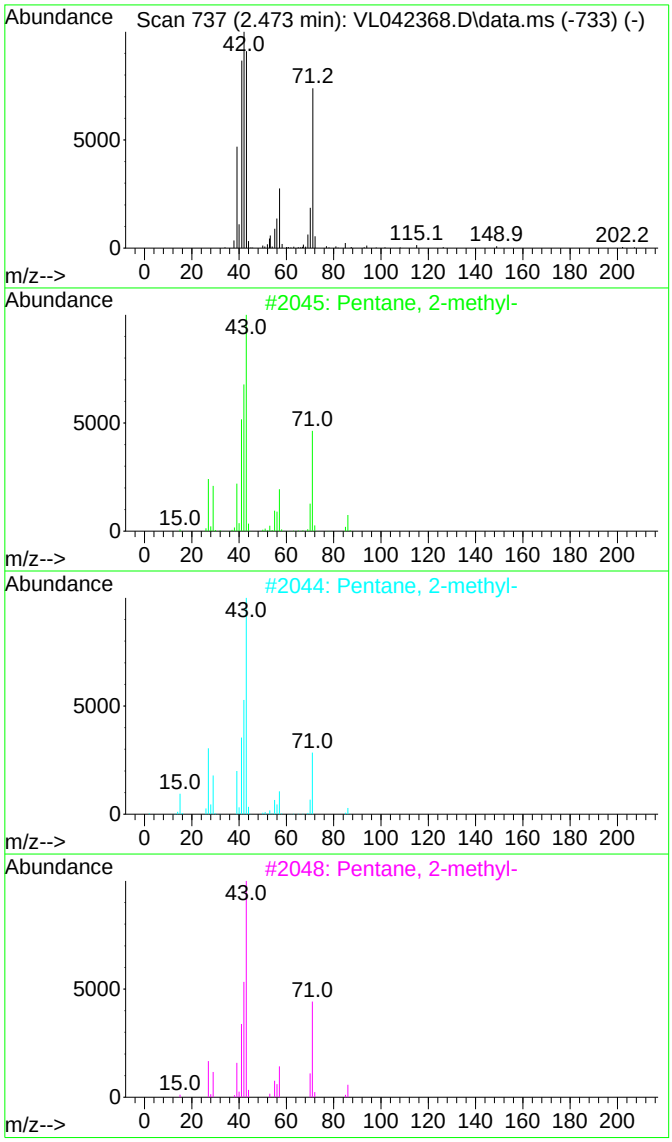
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

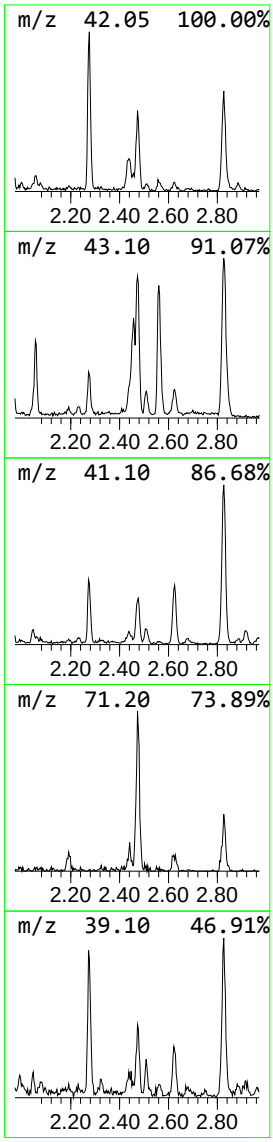
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 3 Pentane, 2-methyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.473	3.00 ppbv	132936	Bromochloromethane	2.787

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2-methyl-	86	C6H14	000107-83-5	59
2	Pentane, 2-methyl-	86	C6H14	000107-83-5	56
3	Pentane, 2-methyl-	86	C6H14	000107-83-5	53
4	Pentane, 2-methyl-	86	C6H14	000107-83-5	38
5	4,4-Dimethyl-1-hexene	112	C8H16	001647-08-1	35





Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042368.D
Acq On : 17 Apr 2025 21:12
Operator : SY/MD
Sample : Q1726-03
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-2-03312025

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

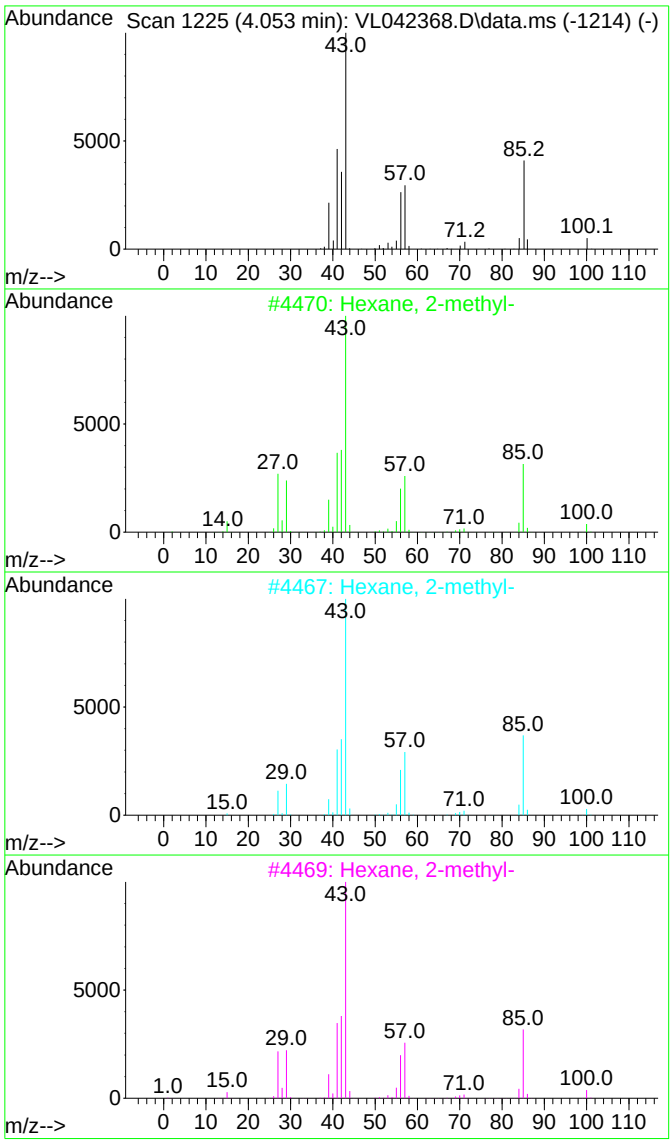
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

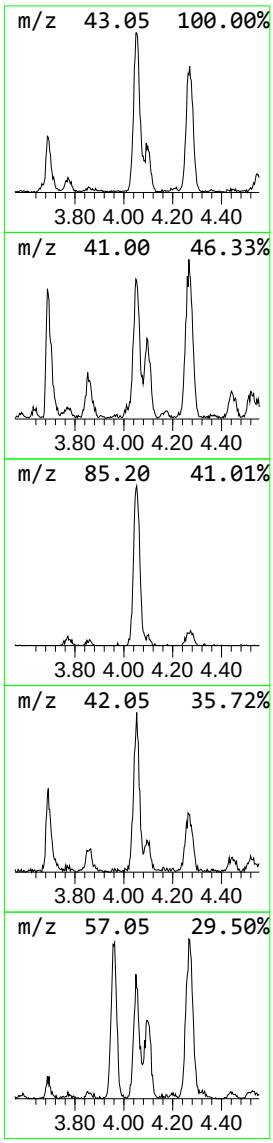
****

Peak Number 4 Hexane, 2-methyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.053	3.90 ppbv	350500	1,4-Difluorobenzene	3.962

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2-methyl-	100	C7H16	000591-76-4	87
2	Hexane, 2-methyl-	100	C7H16	000591-76-4	87
3	Hexane, 2-methyl-	100	C7H16	000591-76-4	58
4	Oxirane, 2-methyl-3-propyl-, cis-	100	C6H12O	006124-90-9	39
5	Pentane, 3-ethyl-2,4-dimethyl-	128	C9H20	001068-87-7	38





Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042368.D
Acq On : 17 Apr 2025 21:12
Operator : SY/MD
Sample : Q1726-03
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-2-03312025

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

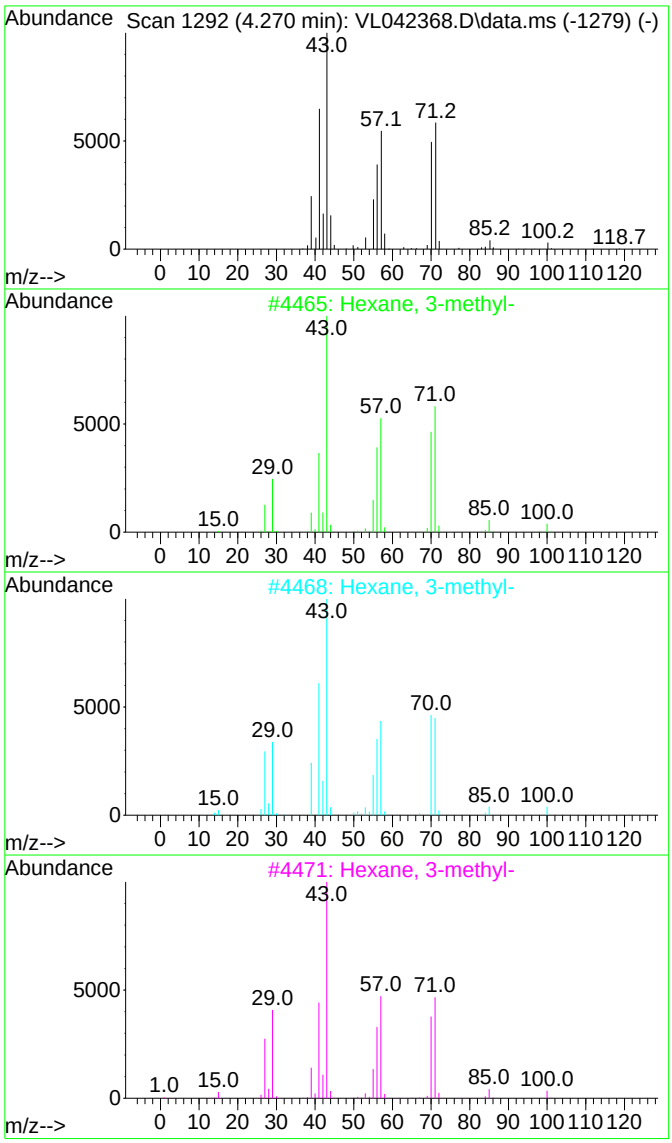
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

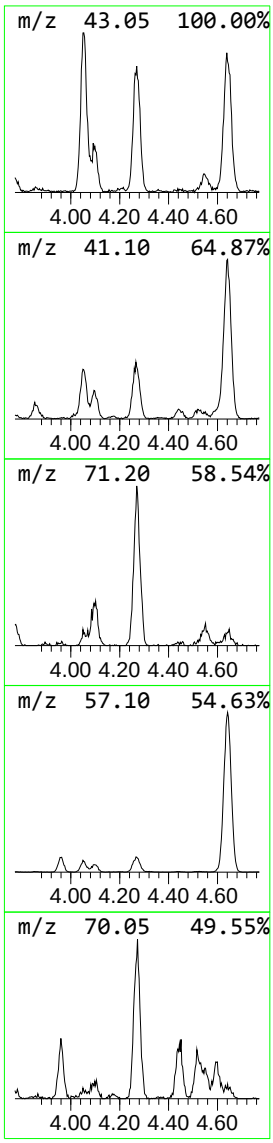
****

Peak Number 5 Hexane, 3-methyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.270	4.69 ppbv	421597	1,4-Difluorobenzene	3.962

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 3-methyl-	100	C7H16	000589-34-4	87
2	Hexane, 3-methyl-	100	C7H16	000589-34-4	72
3	Hexane, 3-methyl-	100	C7H16	000589-34-4	72
4	Heptane	100	C7H16	000142-82-5	64
5	Hexane, 2,3-dimethyl-	114	C8H18	000584-94-1	53





Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042368.D
Acq On : 17 Apr 2025 21:12
Operator : SY/MD
Sample : Q1726-03
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-2-03312025

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

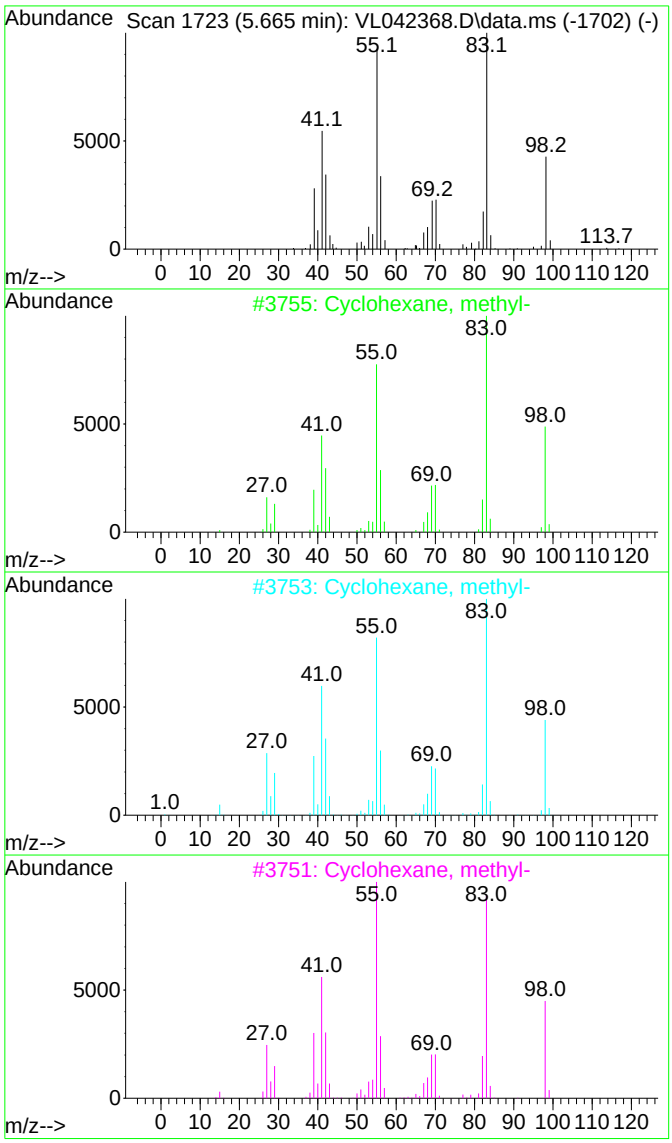
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

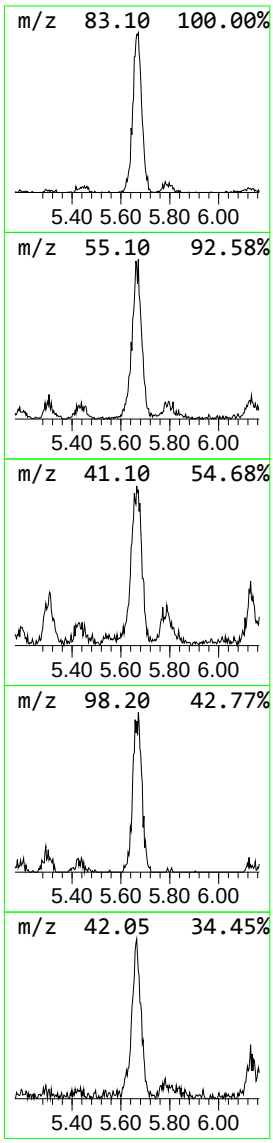
****

Peak Number 6 Cyclohexane, methyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.665	3.71 ppbv	333648	1,4-Difluorobenzene	3.962

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, methyl-	98	C7H14	000108-87-2	97
2	Cyclohexane, methyl-	98	C7H14	000108-87-2	97
3	Cyclohexane, methyl-	98	C7H14	000108-87-2	96
4	Cyclohexane, methyl-	98	C7H14	000108-87-2	94
5	Cyclohexane, methyl-	98	C7H14	000108-87-2	91





Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042368.D
Acq On : 17 Apr 2025 21:12
Operator : SY/MD
Sample : Q1726-03
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-2-03312025

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

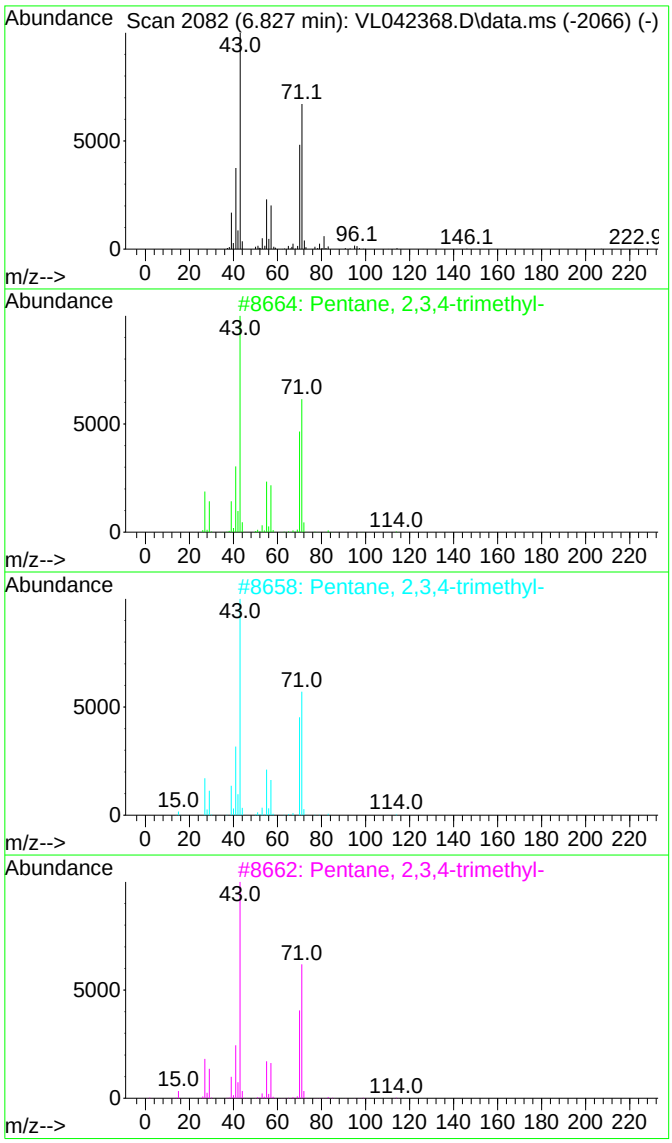
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

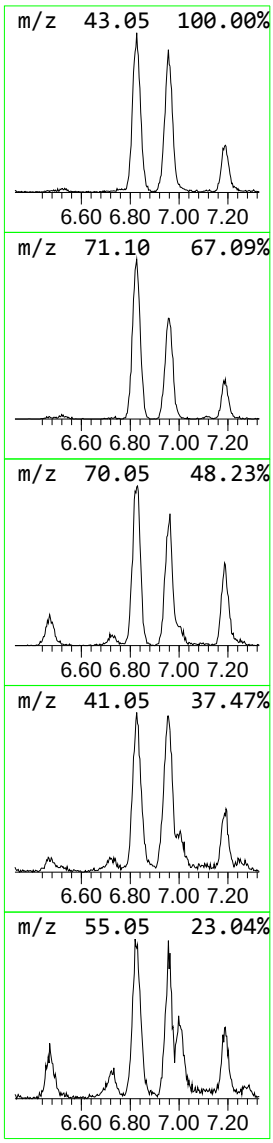
****

Peak Number 7 Pentane, 2,3,4-trimethyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.827	5.57 ppbv	627320	Chlorobenzene-d5	8.882

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	90
2	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	90
3	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	86
4	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	86
5	2,4,4-Trimethyl-1-hexene	126	C9H18	051174-12-0	72





Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042368.D
Acq On : 17 Apr 2025 21:12
Operator : SY/MD
Sample : Q1726-03
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-2-03312025

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

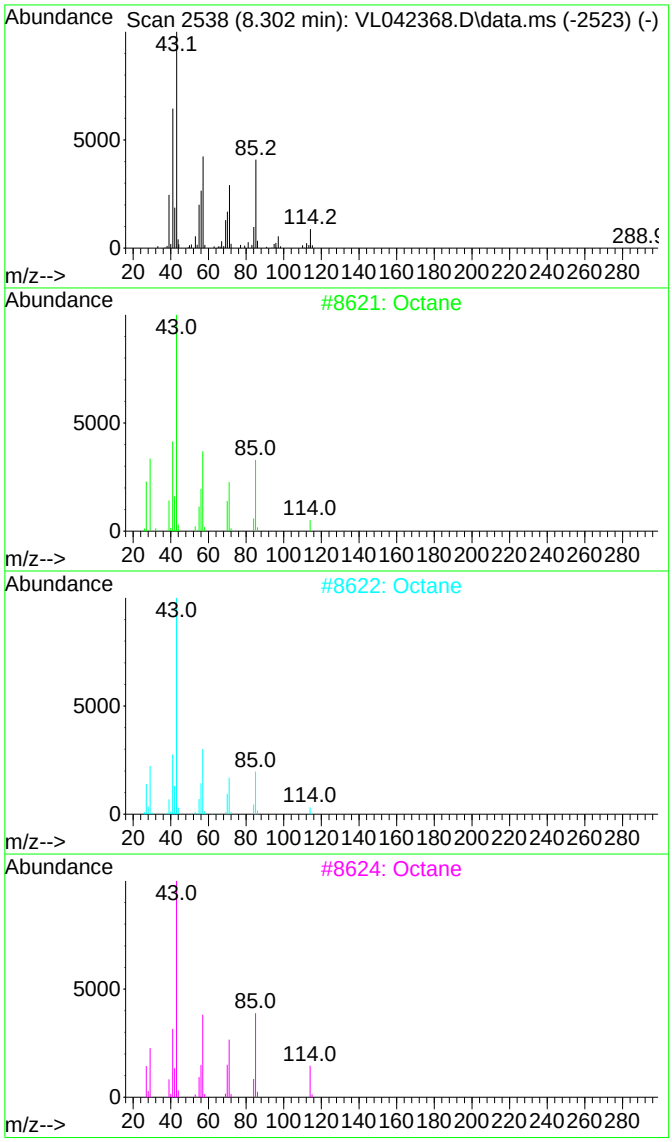
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

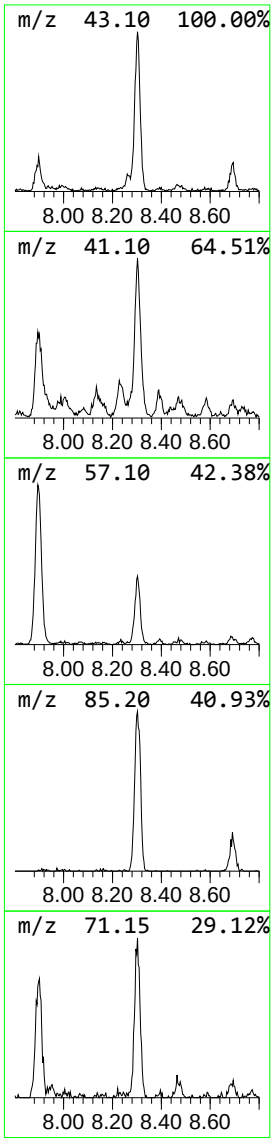
****

Peak Number 8 Octane Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.302	4.19 ppbv	471782	Chlorobenzene-d5	8.882

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octane	114	C8H18	000111-65-9	90
2	Octane	114	C8H18	000111-65-9	87
3	Octane	114	C8H18	000111-65-9	80
4	Octane	114	C8H18	000111-65-9	76
5	Octane	114	C8H18	000111-65-9	68





Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042368.D
Acq On : 17 Apr 2025 21:12
Operator : SY/MD
Sample : Q1726-03
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-2-03312025

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

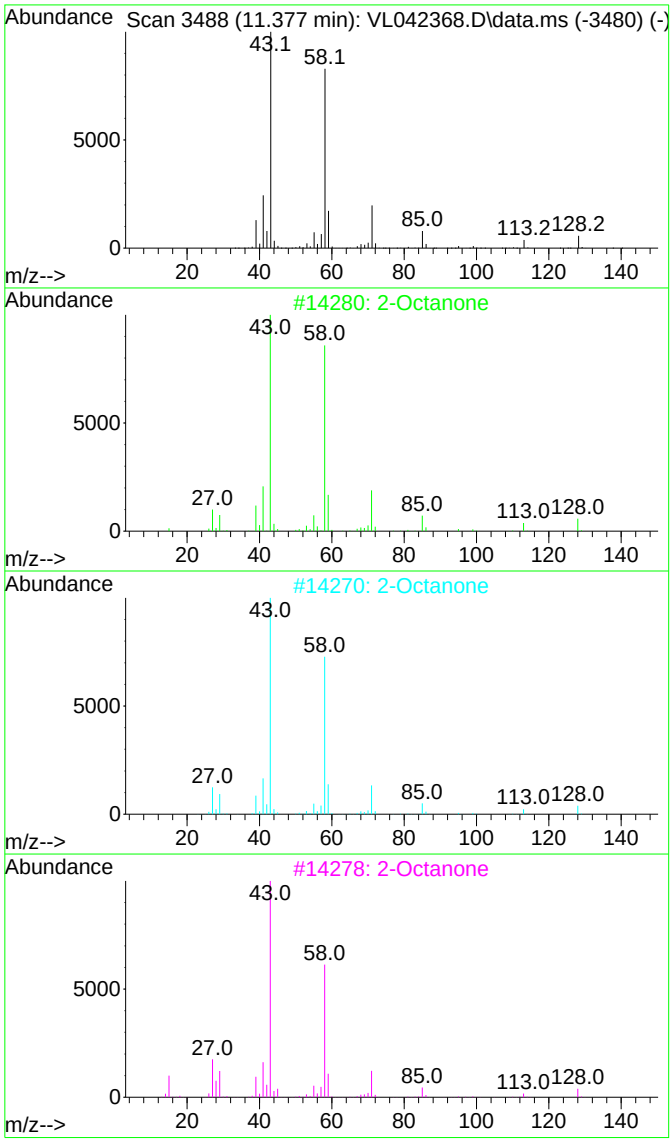
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

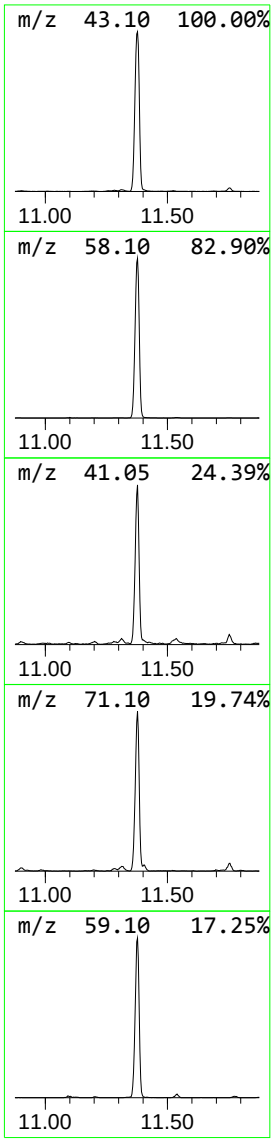
****

Peak Number 9 2-Octanone Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.377	65.27 ppbv	7344410	Chlorobenzene-d5	8.882

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Octanone	128	C8H16O	000111-13-7	94
2	2-Octanone	128	C8H16O	000111-13-7	94
3	2-Octanone	128	C8H16O	000111-13-7	91
4	2-Octanone	128	C8H16O	000111-13-7	90
5	2-Octanone	128	C8H16O	000111-13-7	80





Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042368.D
Acq On : 17 Apr 2025 21:12
Operator : SY/MD
Sample : Q1726-03
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-2-03312025

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
Butane	1.622	8.7	ppbv	384686	1	2.787	443819	10.0
unknown2.276	2.276	3.9	ppbv	171969	1	2.787	443819	10.0
Pentane, 2-methyl-	2.473	3.0	ppbv	132936	1	2.787	443819	10.0
Hexane, 2-methyl-	4.053	3.9	ppbv	350500	2	3.962	898645	10.0
Hexane, 3-methyl-	4.270	4.7	ppbv	421597	2	3.962	898645	10.0
Cyclohexane, me...	5.665	3.7	ppbv	333648	2	3.962	898645	10.0
Pentane, 2,3,4-...	6.827	5.6	ppbv	627320	3	8.882	1125320	10.0
Octane	8.302	4.2	ppbv	471782	3	8.882	1125320	10.0
2-Octanone	11.377	65.3	ppbv	7344410	3	8.882	1125320	10.0

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

Report of Analysis

Client:	Woodard & Curran	Date Collected:	04/01/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	IA-B2-2-03312025DL	SDG No.:	Q1726
Lab Sample ID:	Q1726-03DL	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
VL042378.D	20		04/18/25 02:32	VL041725

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	4.20	20.8	UD	20.8	49.5	ug/m3
64-17-5	Ethanol	270	509	DQ	12.1	18.8	ug/m3
74-87-3	Chloromethane	3.00	6.20	JD	4.13	20.6	ug/m3
75-01-4	Vinyl Chloride	0.28	0.72	UD	0.72	1.53	ug/m3
74-83-9	Bromomethane	2.80	10.9	UD	10.9	38.8	ug/m3
75-00-3	Chloroethane	3.40	8.97	UD	8.97	26.4	ug/m3
109-99-9	Tetrahydrofuran	2.60	7.67	UD	7.67	29.5	ug/m3
75-69-4	Trichlorofluoromethane	3.20	18.0	UD	18.0	56.2	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	3.20	24.5	UD	24.5	76.7	ug/m3
76-14-2	Dichlorotetrafluoroethane	1.80	12.6	UD	12.6	69.9	ug/m3
593-60-2	Bromoethene	2.40	10.5	UD	10.5	43.7	ug/m3
75-65-0	tert-Butyl alcohol	3.80	11.5	UD	11.5	30.3	ug/m3
142-82-5	Heptane	3.20	13.1	JD	9.02	41.0	ug/m3
67-63-0	Isopropyl Alcohol	49.2	121	D	3.44	24.6	ug/m3
75-35-4	1,1-Dichloroethene	2.80	11.1	UD	11.1	39.6	ug/m3
67-64-1	Acetone	850	2020	ED	11.4	23.8	ug/m3
75-15-0	Carbon Disulfide	3.20	9.97	UD	9.97	31.1	ug/m3
1634-04-4	Methyl tert-Butyl Ether	2.40	8.65	UD	8.65	36.0	ug/m3
75-09-2	Methylene Chloride	3.80	13.2	UD	13.2	34.7	ug/m3
156-60-5	trans-1,2-Dichloroethene	3.80	15.1	UD	15.1	39.6	ug/m3
75-34-3	1,1-Dichloroethane	2.60	10.5	UD	10.5	40.5	ug/m3
110-82-7	Cyclohexane	4.40	15.2	UD	15.2	34.4	ug/m3
78-93-3	2-Butanone	2.40	7.08	UD	7.08	29.5	ug/m3
56-23-5	Carbon Tetrachloride	0.22	1.38	UD	1.38	3.77	ug/m3
156-59-2	cis-1,2-Dichloroethene	1.80	7.14	UD	7.14	39.6	ug/m3
67-66-3	Chloroform	1.70	8.30	UD	8.30	48.8	ug/m3
71-55-6	1,1,1-Trichloroethane	0.19	1.04	UD	1.04	3.27	ug/m3
540-84-1	2,2,4-Trimethylpentane	7.80	36.4	JD	9.34	46.7	ug/m3
71-43-2	Benzene	1.70	5.43	UD	5.43	31.9	ug/m3
107-06-2	1,2-Dichloroethane	1.80	7.29	UD	7.29	40.5	ug/m3
79-01-6	Trichloroethene	0.34	1.83	UD	1.83	3.22	ug/m3
78-87-5	1,2-Dichloropropane	2.20	10.2	UD	10.2	46.2	ug/m3
75-27-4	Bromodichloromethane	1.50	10.1	UD	10.1	67.0	ug/m3
108-10-1	4-Methyl-2-Pentanone	1.90	7.79	UD	7.79	41.0	ug/m3
108-88-3	Toluene	17.8	67.1	D	8.29	37.7	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:	04/01/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	IA-B2-2-03312025DL	SDG No.:	Q1726
Lab Sample ID:	Q1726-03DL	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
VL042378.D	20		04/18/25 02:32	VL041725

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	1.20	5.45	UD	5.45	45.4	ug/m3
10061-01-5	cis-1,3-Dichloropropene	1.30	5.90	UD	5.90	45.4	ug/m3
79-00-5	1,1,2-Trichloroethane	1.40	7.64	UD	7.64	54.6	ug/m3
124-48-1	Dibromochloromethane	1.30	11.1	UD	11.1	85.2	ug/m3
106-93-4	1,2-Dibromoethane	1.40	10.8	UD	10.8	15.4	ug/m3
127-18-4	Tetrachloroethene	0.30	2.03	UD	2.03	4.07	ug/m3
108-90-7	Chlorobenzene	1.50	6.91	UD	6.91	46.0	ug/m3
100-41-4	Ethyl Benzene	3.50	15.2	JD	10.4	43.4	ug/m3
179601-23-1	m/p-Xylene	12.0	52.1	JD	18.2	86.9	ug/m3
95-47-6	o-Xylene	4.70	20.4	JD	10.4	43.4	ug/m3
100-42-5	Styrene	2.20	9.37	UD	9.37	42.6	ug/m3
75-25-2	Bromoform	1.10	11.4	UD	11.4	103	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	0.22	1.51	UD	1.51	4.12	ug/m3
95-49-8	2-Chlorotoluene	2.20	11.4	UD	11.4	51.8	ug/m3
108-67-8	1,3,5-Trimethylbenzene	2.20	10.8	UD	10.8	49.2	ug/m3
95-63-6	1,2,4-Trimethylbenzene	5.80	28.5	JD	7.87	49.2	ug/m3
541-73-1	1,3-Dichlorobenzene	1.60	9.62	UD	9.62	60.1	ug/m3
106-46-7	1,4-Dichlorobenzene	1.10	6.61	UD	6.61	60.1	ug/m3
95-50-1	1,2-Dichlorobenzene	1.50	9.02	UD	9.02	60.1	ug/m3
120-82-1	1,2,4-Trichlorobenzene	1.70	12.6	UD	12.6	74.2	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	1.70	18.1	UD	18.1	107	ug/m3
106-99-0	1,3-Butadiene	2.60	5.75	UD	5.75	22.1	ug/m3
91-20-3	Naphthalene	1.50	7.86	UD	7.86	10.5	ug/m3
622-96-8	4-Ethyltoluene	2.40	11.8	UD	11.8	49.2	ug/m3
110-54-3	Hexane	2.20	7.75	UD	7.75	35.2	ug/m3
107-05-1	Allyl Chloride	3.00	9.39	UD	9.39	31.3	ug/m3
123-91-1	1,4-Dioxane	4.20	15.1	UD	15.1	36.0	ug/m3
80-62-6	Methyl Methacrylate	1.70	6.96	UD	6.96	41.0	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	10.3			70 (65) - 130 (135)	103%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	92100		2.787			
540-36-3	1,4-Difluorobenzene	266000		3.955			
3114-55-4	Chlorobenzene-d5	229000		8.882			

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

Report of Analysis

Client:	Woodard & Curran	Date Collected:	04/01/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	IA-B2-2-03312025DL	SDG No.:	Q1726
Lab Sample ID:	Q1726-03DL	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
VL042378.D	20		04/18/25 02:32	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 : VL042378.D
Acq On : 18 Apr 2025 02:32
Operator : SY/MD
Sample : Q1726-03DL 20X
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-2-03312025DL

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

Quant Time: Apr 18 04:40:41 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

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.787	49	92120	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.955	114	265690	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.882	117	228865	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.377	95	194344	10.334	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 103.300%				
Target Compounds							Qvalue
4) Chloromethane	1.531	50	967	0.150	ppbv	#	76
9) Propene	1.486	41	1814m	0.257	ppbv		
10) Heptane	4.988	43	3174m	0.160	ppbv		
13) Ethanol	1.722	45	14985	13.357	ppbv		75
15) Acetone	1.835	43	643033	42.641	ppbv		99
19) Isopropyl Alcohol	1.887	45	20625	2.462	ppbv	#	1
34) 2-Butanone	2.564	43	2187	0.104	ppbv		92
44) 2,2,4-Trimethylpentane	4.638	57	19367m	0.391	ppbv		
53) Toluene	6.936	91	30658	0.891	ppbv		99
58) Ethyl Benzene	9.354	91	7859	0.173	ppbv		94
59) m/p-Xylene	9.532	91	21995m	0.602	ppbv		
60) o-Xylene	9.963	91	8584	0.233	ppbv		97
73) 1,3,5-Trimethylbenzene	11.209	105	4209m	0.106	ppbv		
74) 1,2,4-Trimethylbenzene	11.536	105	13380	0.289	ppbv	#	60

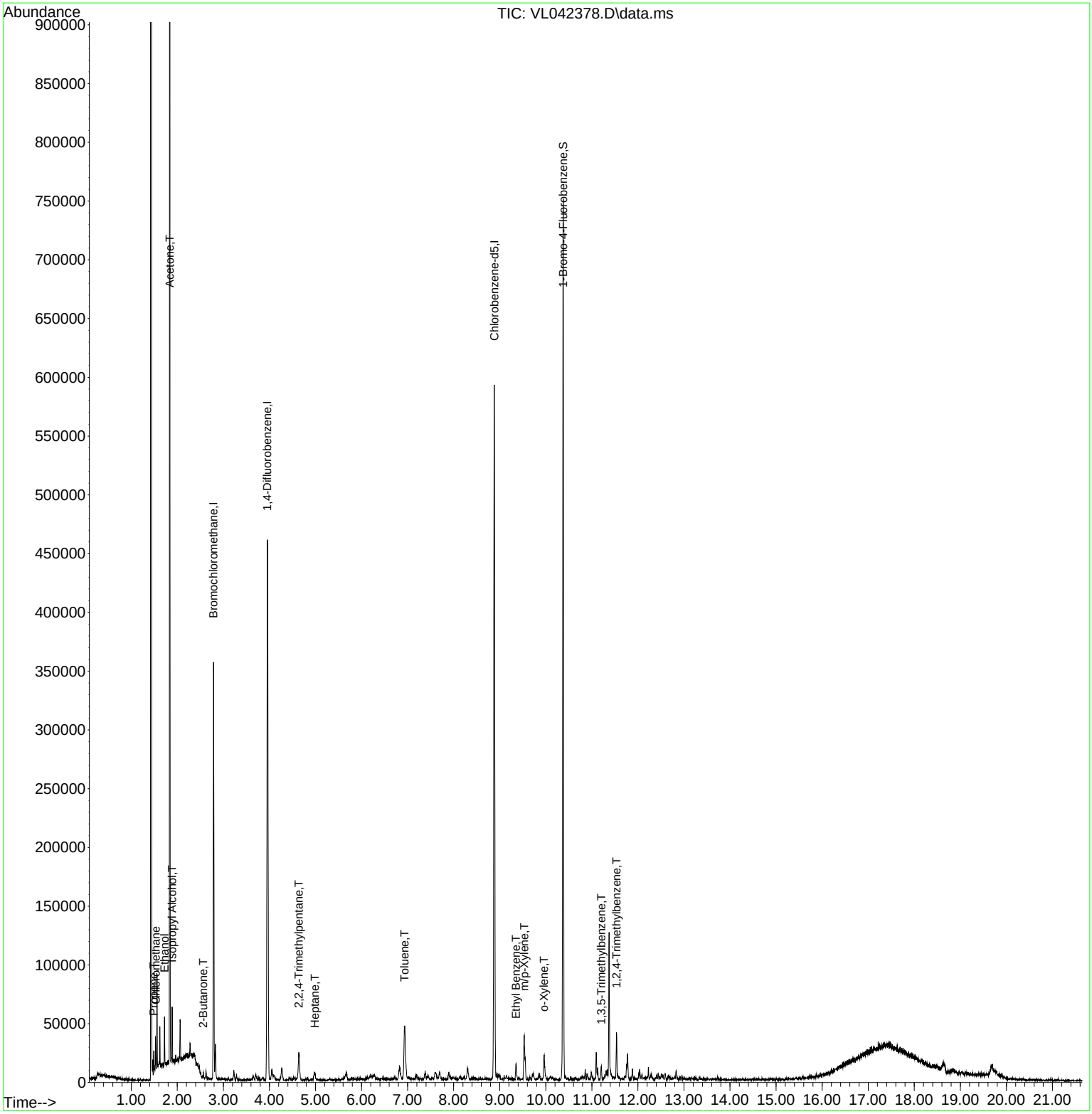
(#) = qualifier out of range (m) = manual integration (+) = signals summed

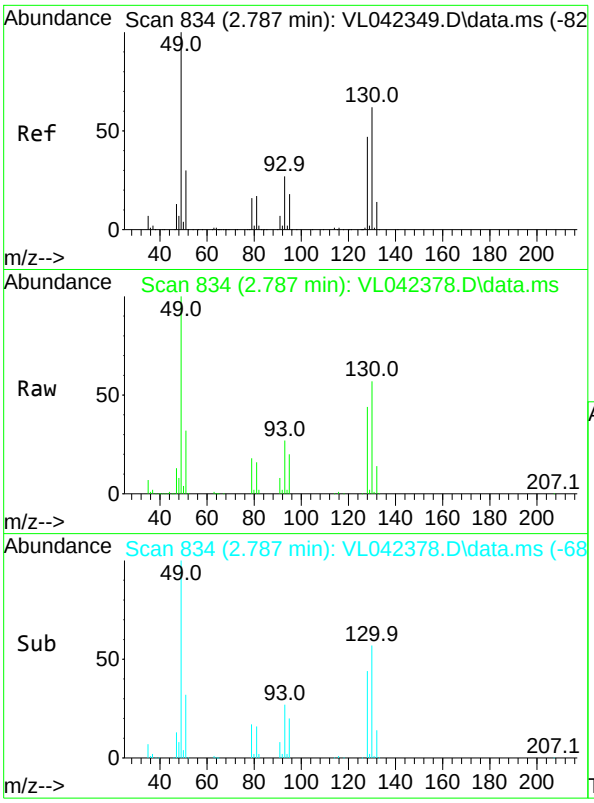
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042378.D
Acq On : 18 Apr 2025 02:32
Operator : SY/MD
Sample : Q1726-03DL 20X
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 18 04:40:41 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-B2-2-03312025DL

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

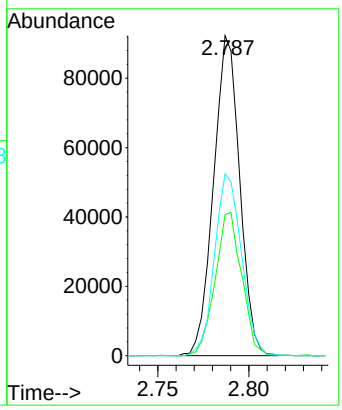




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL042378.D
Acq: 18 Apr 2025 02:32

Tgt Ion: 49 Resp: 9212

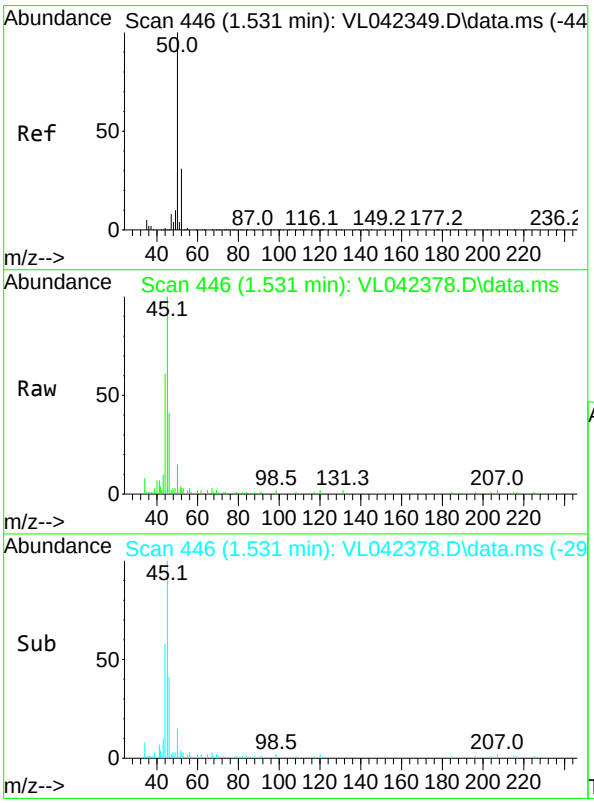
Ion	Ratio	Lower	Upper
49	100		
128	45.5	22.8	68.4
130	58.7	29.3	88.0



Instrument :
MSVOA_L
ClientSampleId :
IA-B2-2-03312025DL

Manual Integrations
APPROVED

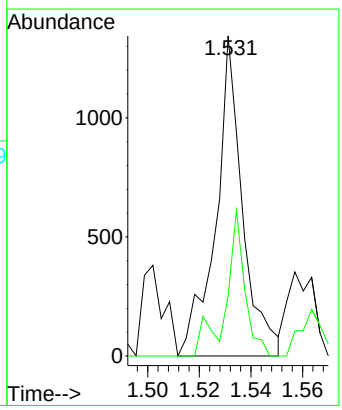
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

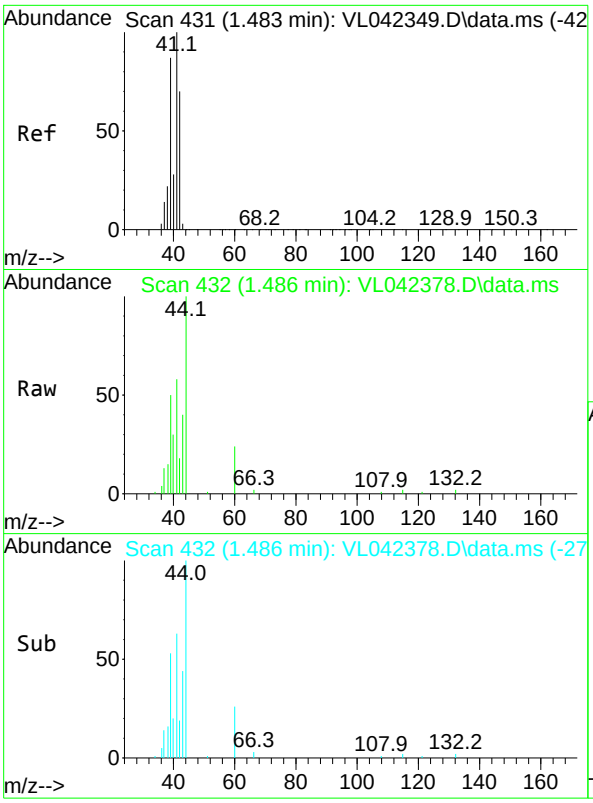


#4
Chloromethane
Concen: 0.150 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042378.D
Acq: 18 Apr 2025 02:32

Tgt Ion: 50 Resp: 967

Ion	Ratio	Lower	Upper
50	100		
52	17.5	24.7	37.1#

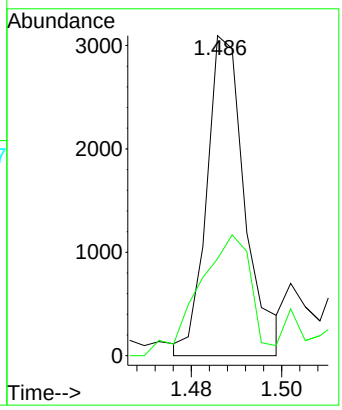




#9
Propene
Concen: 0.257 ppbv m
RT: 1.486 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL042378.D
Acq: 18 Apr 2025 02:32

Tgt Ion: 41 Resp: 181

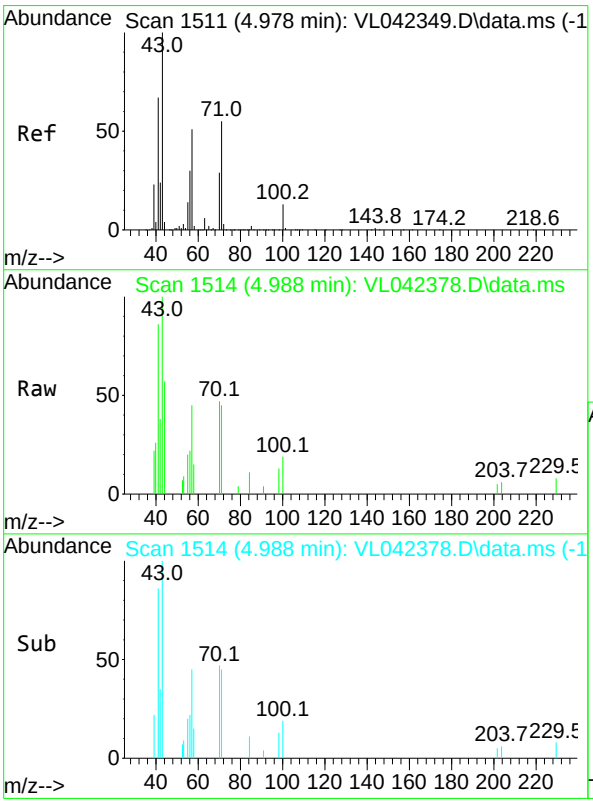
Ion	Ratio	Lower	Upper
41	100		
42	285.0	56.2	84.4



Instrument :
MSVOA_L
ClientSampleId :
IA-B2-2-03312025DL

Manual Integrations
APPROVED

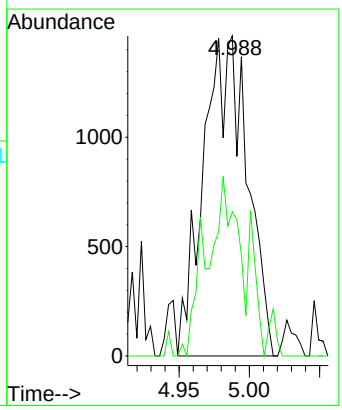
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

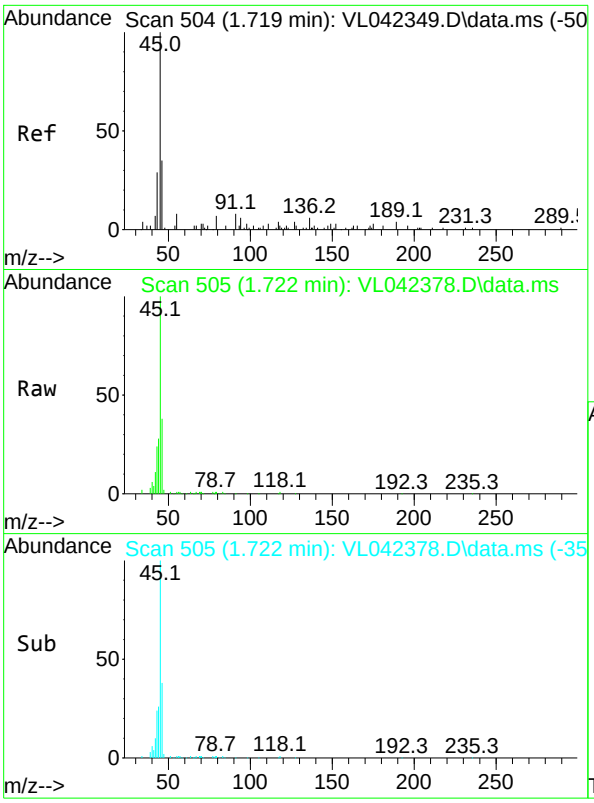


#10
Heptane
Concen: 0.160 ppbv m
RT: 4.988 min Scan# 1514
Delta R.T. 0.010 min
Lab File: VL042378.D
Acq: 18 Apr 2025 02:32

Tgt Ion: 43 Resp: 3174

Ion	Ratio	Lower	Upper
43	100		
57	50.0	39.9	59.9

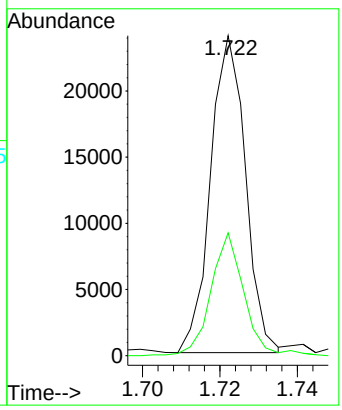




#13
Ethanol
Concen: 13.357 ppbv
RT: 1.722 min Scan# 5(
Delta R.T. 0.003 min
Lab File: VL042378.D
Acq: 18 Apr 2025 02:32

Tgt Ion: 45 Resp: 1498

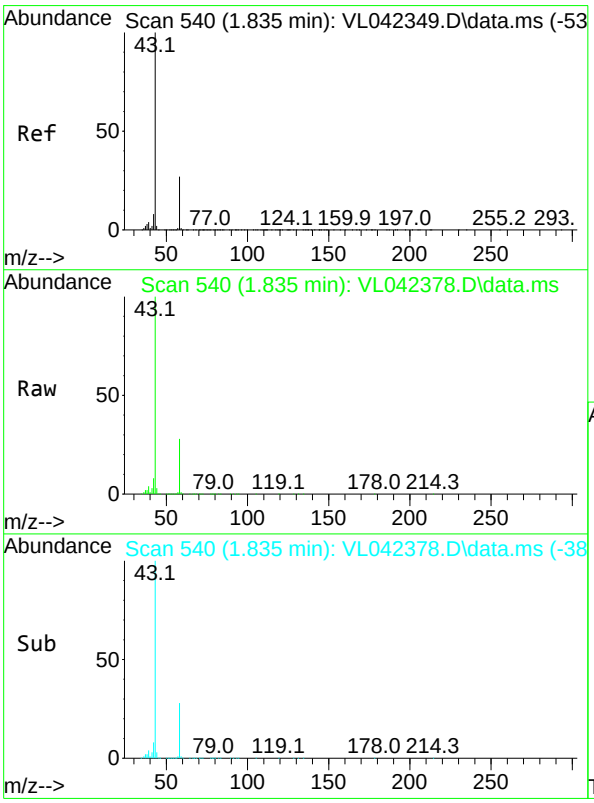
Ion	Ratio	Lower	Upper
45	100		
46	36.7	21.9	87.7



Instrument :
MSVOA_L
ClientSampleId :
IA-B2-2-03312025DL

Manual Integrations
APPROVED

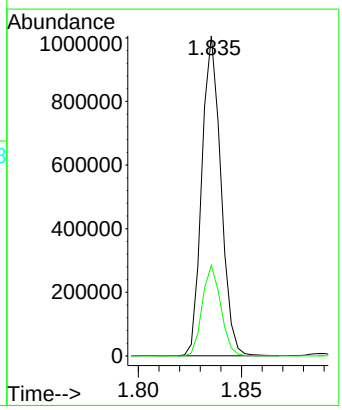
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

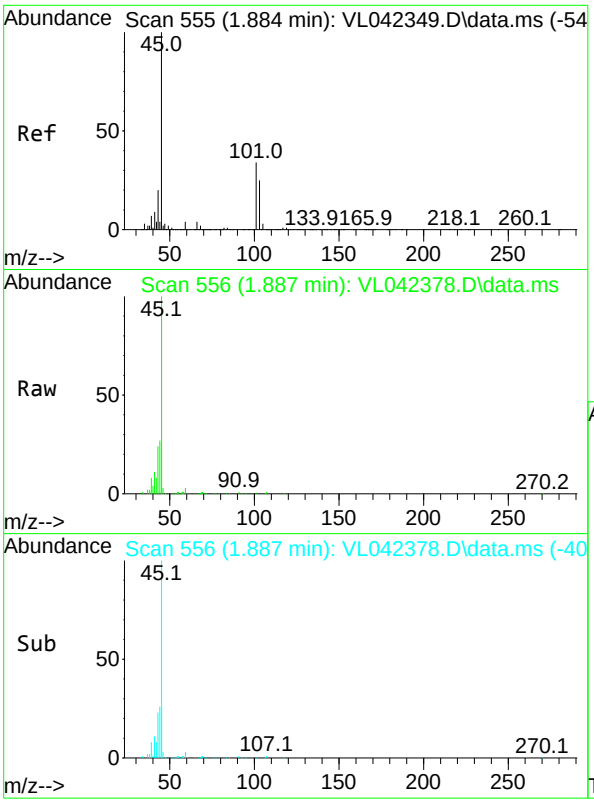


#15
Acetone
Concen: 42.641 ppbv
RT: 1.835 min Scan# 540
Delta R.T. -0.000 min
Lab File: VL042378.D
Acq: 18 Apr 2025 02:32

Tgt Ion: 43 Resp: 643033

Ion	Ratio	Lower	Upper
43	100		
58	27.6	22.4	33.6





#19
Isopropyl Alcohol
Concen: 2.462 ppbv
RT: 1.887 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042378.D
Acq: 18 Apr 2025 02:32

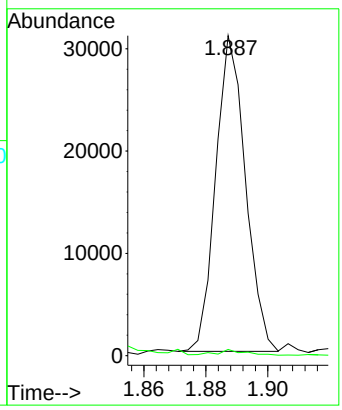
Tgt Ion: 45 Resp: 2062

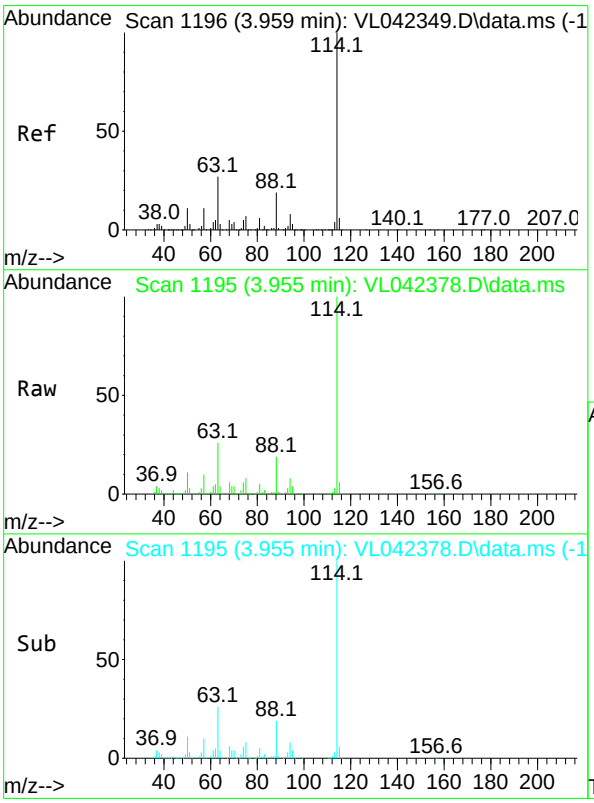
Ion	Ratio	Lower	Upper
45	100		
58	861.8	34.5	51.7#

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-2-03312025DL

Manual Integrations
APPROVED

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

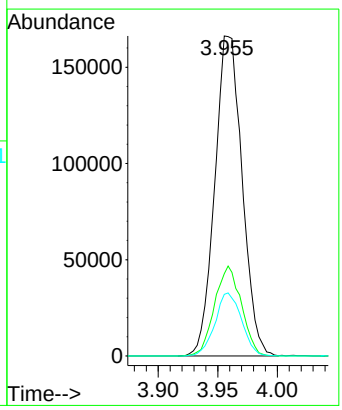


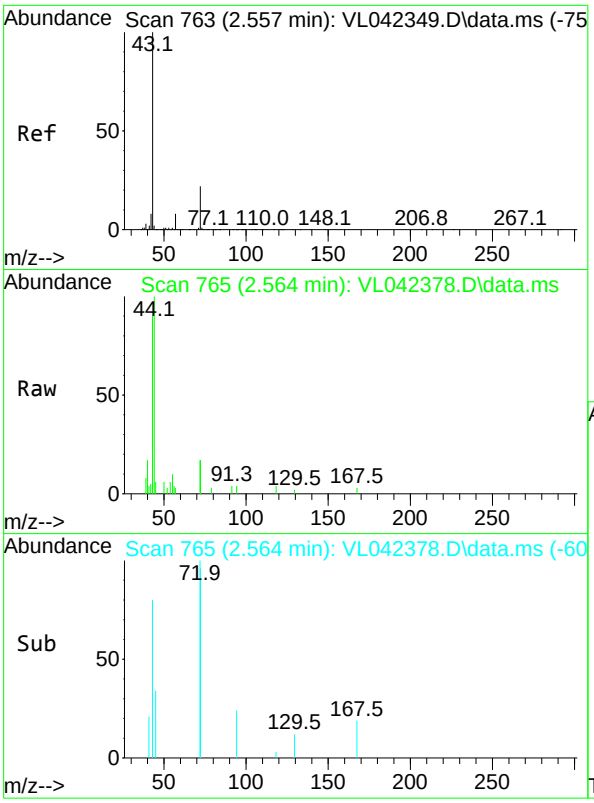


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.955 min Scan# 1195
Delta R.T. -0.003 min
Lab File: VL042378.D
Acq: 18 Apr 2025 02:32

Tgt Ion:114 Resp: 265690

Ion	Ratio	Lower	Upper
114	100		
63	27.5	21.8	32.6
88	19.1	15.5	23.3

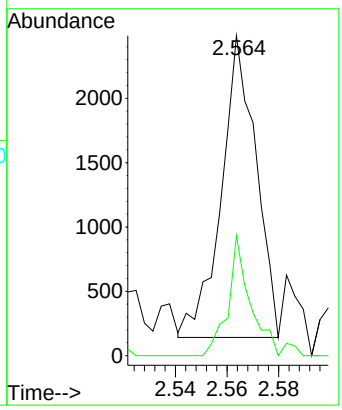




#34
2-Butanone
Concen: 0.104 ppbv
RT: 2.564 min Scan# 7
Delta R.T. 0.006 min
Lab File: VL042378.D
Acq: 18 Apr 2025 02:32

Tgt Ion: 43 Resp: 218

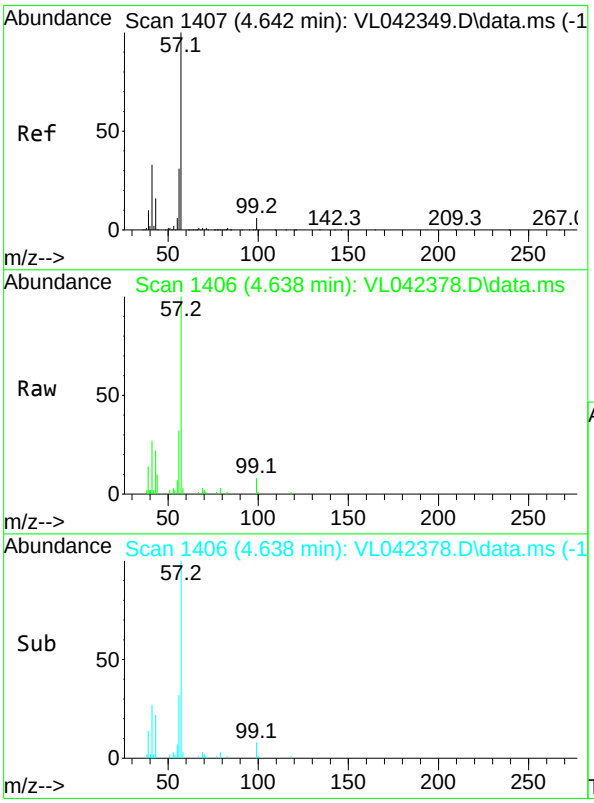
Ion	Ratio	Lower	Upper
43	100		
72	26.7	18.2	27.2



Instrument :
MSVOA_L
ClientSampleId :
IA-B2-2-03312025DL

Manual Integrations
APPROVED

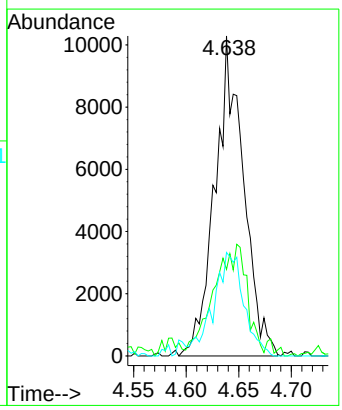
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

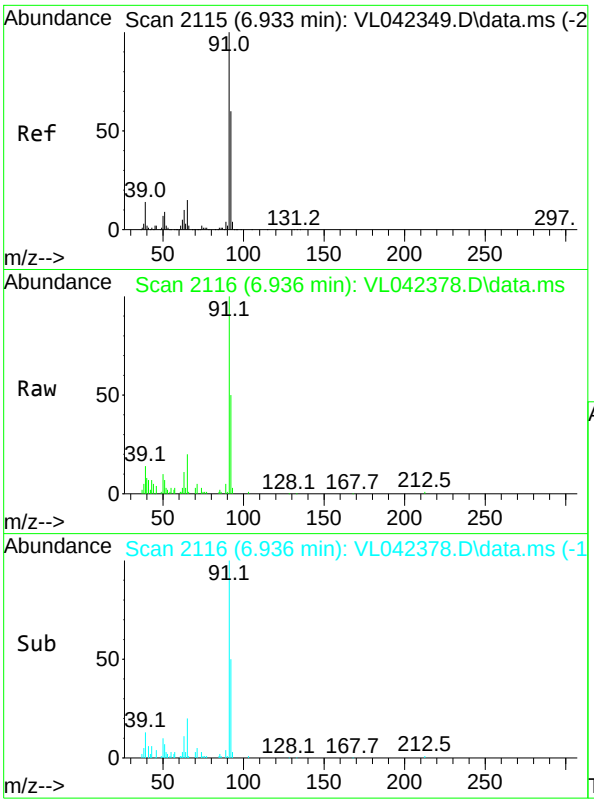


#44
2,2,4-Trimethylpentane
Concen: 0.391 ppbv m
RT: 4.638 min Scan# 1406
Delta R.T. -0.003 min
Lab File: VL042378.D
Acq: 18 Apr 2025 02:32

Tgt Ion: 57 Resp: 19367

Ion	Ratio	Lower	Upper
57	100		
41	0.0	27.2	40.8#
56	36.6	25.7	38.5

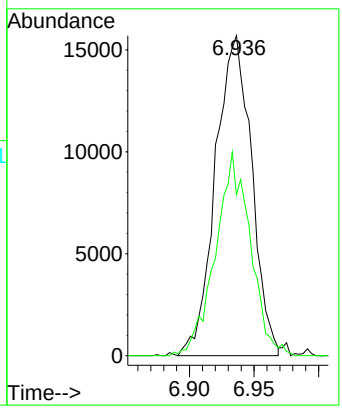




#53
Toluene
Concen: 0.891 ppbv
RT: 6.936 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL042378.D
Acq: 18 Apr 2025 02:32

Tgt Ion: 91 Resp: 3065

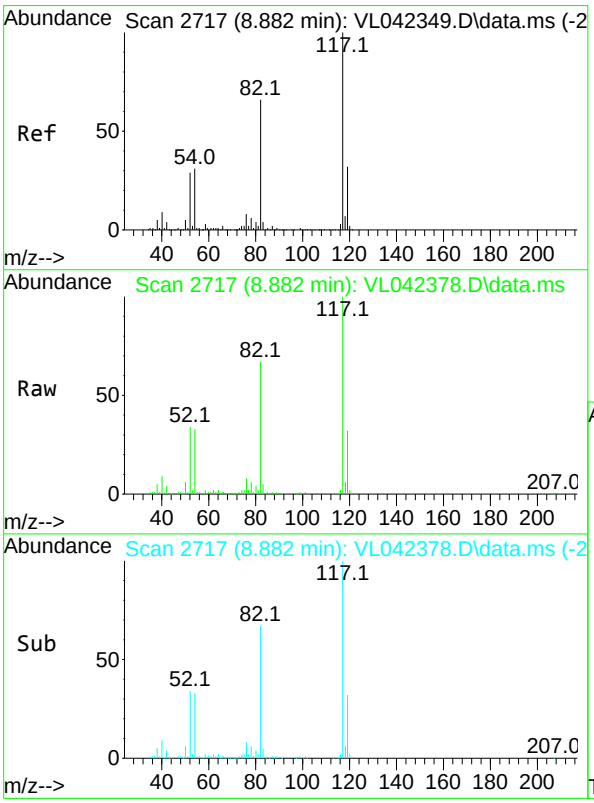
Ion	Ratio	Lower	Upper
91	100		
92	61.1	48.2	72.4



Instrument :
MSVOA_L
ClientSampleId :
IA-B2-2-03312025DL

Manual Integrations
APPROVED

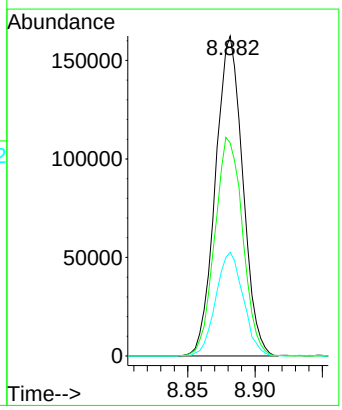
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

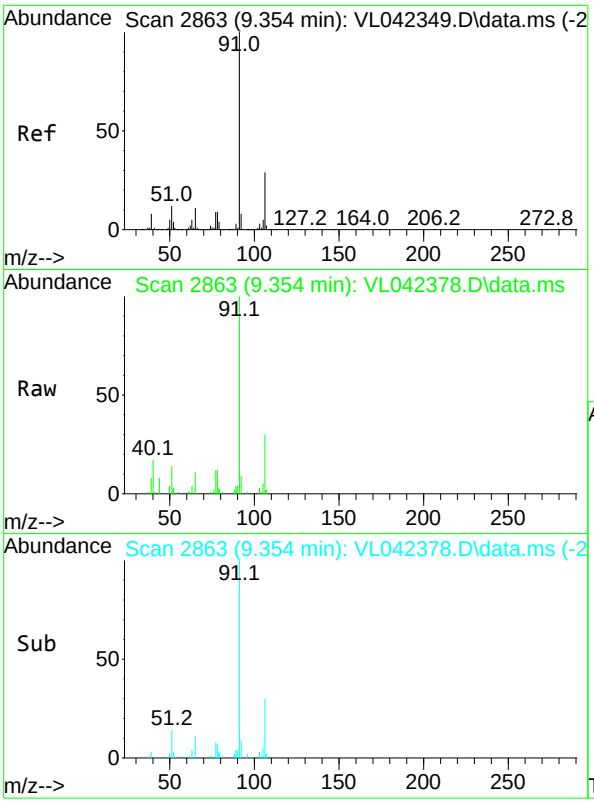


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.882 min Scan# 2717
Delta R.T. -0.000 min
Lab File: VL042378.D
Acq: 18 Apr 2025 02:32

Tgt Ion:117 Resp: 228865

Ion	Ratio	Lower	Upper
117	100		
82	69.8	57.8	86.6
119	32.7	25.2	37.8

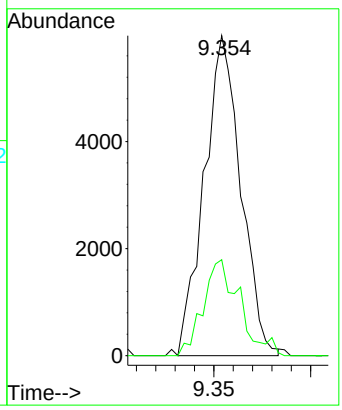




#58
Ethyl Benzene
Concen: 0.173 ppbv
RT: 9.354 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL042378.D
Acq: 18 Apr 2025 02:32

Tgt Ion: 91 Resp: 785

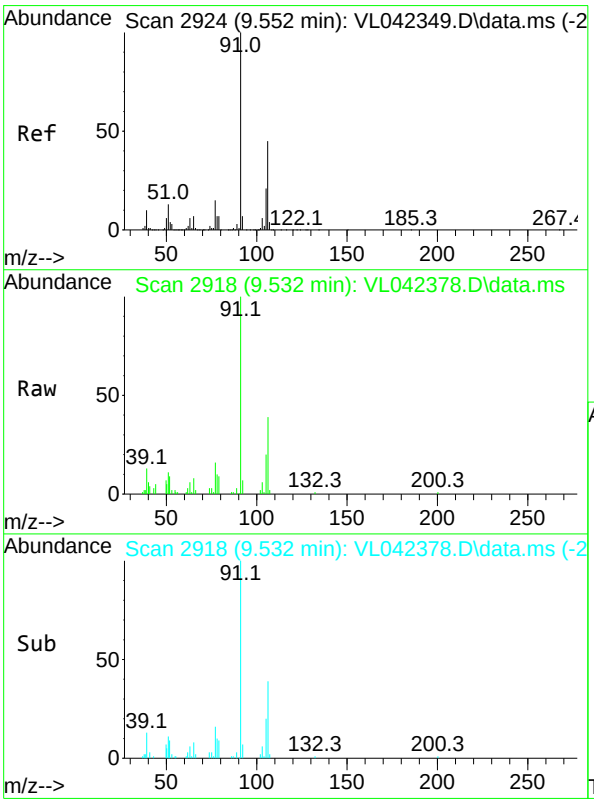
Ion	Ratio	Lower	Upper
91	100		
106	31.6	23.0	34.4



Instrument :
MSVOA_L
ClientSampleId :
IA-B2-2-03312025DL

Manual Integrations
APPROVED

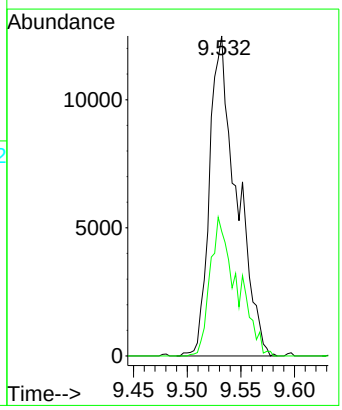
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

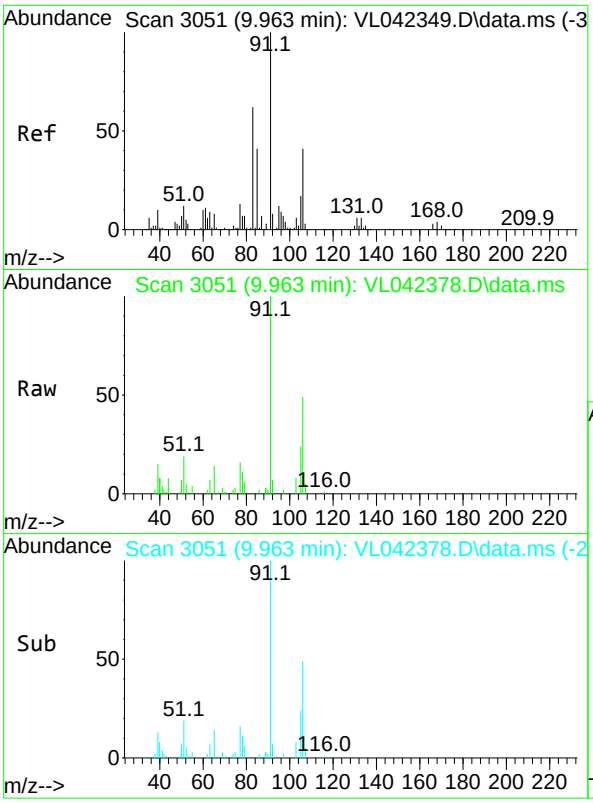


#59
m/p-Xylene
Concen: 0.602 ppbv m
RT: 9.532 min Scan# 2918
Delta R.T. -0.019 min
Lab File: VL042378.D
Acq: 18 Apr 2025 02:32

Tgt Ion: 91 Resp: 21995

Ion	Ratio	Lower	Upper
91	100		
106	0.0	35.4	53.2#

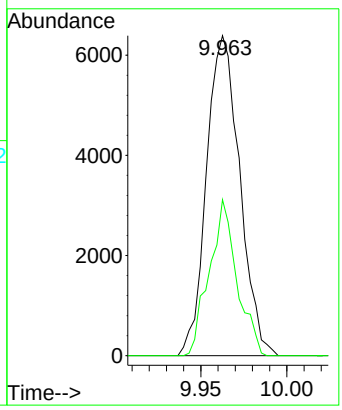




#60
o-Xylene
Concen: 0.233 ppbv
RT: 9.963 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042378.D
Acq: 18 Apr 2025 02:32

Tgt Ion: 91 Resp: 858

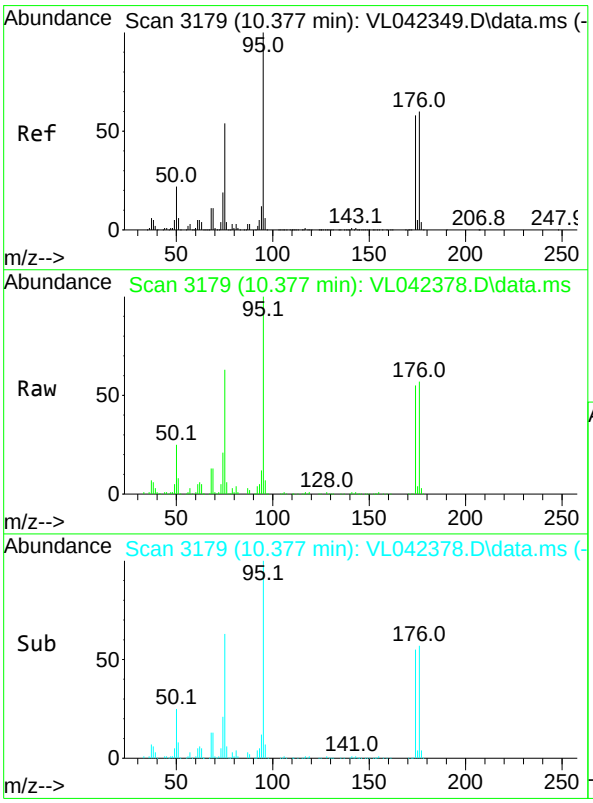
Ion	Ratio	Lower	Upper
91	100		
106	40.6	21.1	63.4



Instrument :
MSVOA_L
ClientSampleId :
IA-B2-2-03312025DL

Manual Integrations
APPROVED

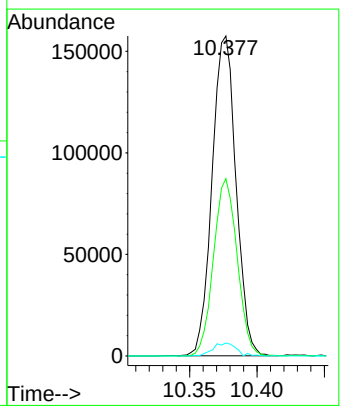
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

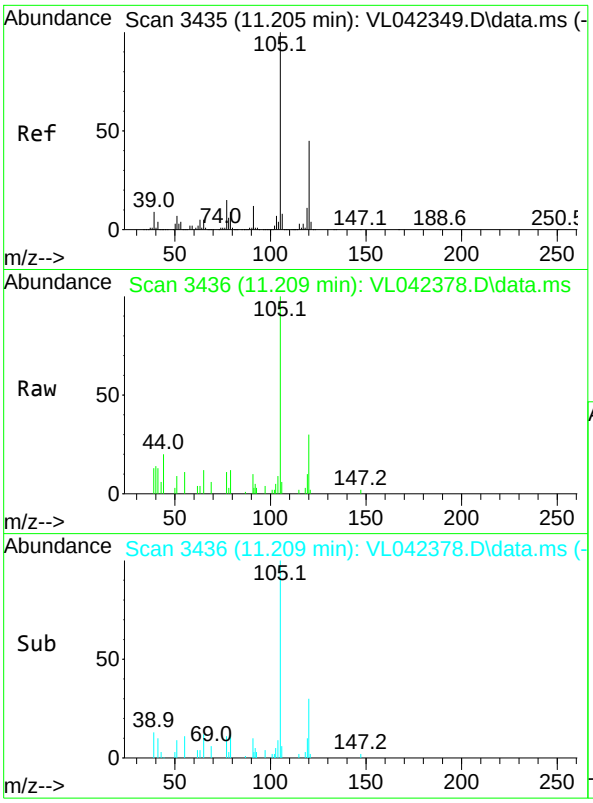


#68
1-Bromo-4-Fluorobenzene
Concen: 10.334 ppbv
RT: 10.377 min Scan# 3179
Delta R.T. -0.000 min
Lab File: VL042378.D
Acq: 18 Apr 2025 02:32

Tgt Ion: 95 Resp: 194344

Ion	Ratio	Lower	Upper
95	100		
174	55.0	48.5	72.7
175	4.0	3.7	5.5

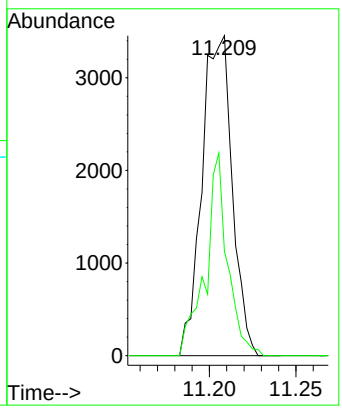




#73
1,3,5-Trimethylbenzene
Concen: 0.106 ppbv m
RT: 11.209 min Scan# 34
Delta R.T. 0.003 min
Lab File: VL042378.D
Acq: 18 Apr 2025 02:32

Tgt Ion:105 Resp: 420

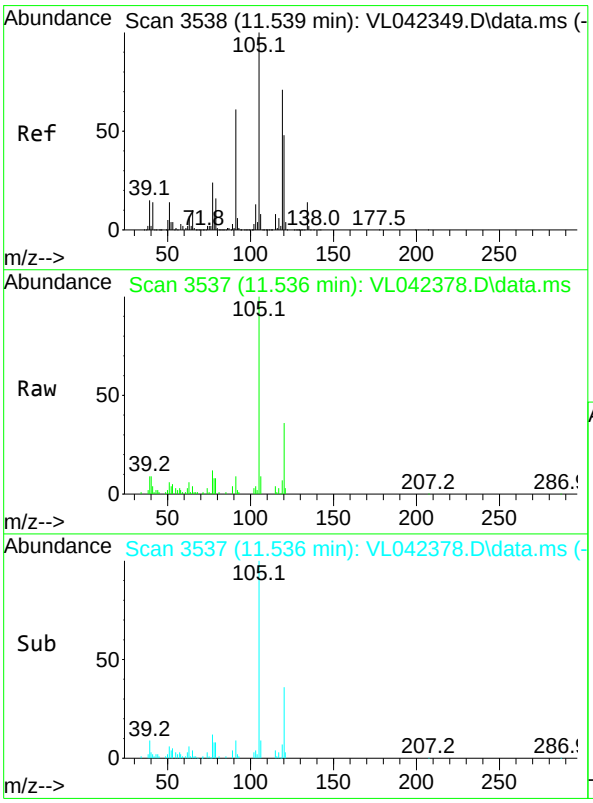
Ion	Ratio	Lower	Upper
105	100		
120	30.1	35.6	53.4#



Instrument :
MSVOA_L
ClientSampleId :
IA-B2-2-03312025DL

Manual Integrations
APPROVED

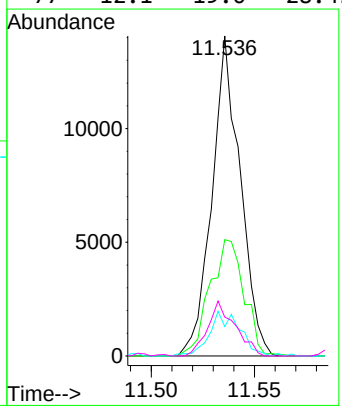
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#74
1,2,4-Trimethylbenzene
Concen: 0.289 ppbv
RT: 11.536 min Scan# 3537
Delta R.T. -0.003 min
Lab File: VL042378.D
Acq: 18 Apr 2025 02:32

Tgt Ion:105 Resp: 13380

Ion	Ratio	Lower	Upper
105	100		
120	39.2	38.1	57.1
91	8.5	48.8	73.2#
77	12.1	19.0	28.4#



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

Report of Analysis

Client:	Woodard & Curran	Date Collected:	04/01/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	IA-B2-2-03312025DL2	SDG No.:	Q1726
Lab Sample ID:	Q1726-03DL2	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
VL042390.D	100		04/18/25 14:14	VL041825

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	21.0	104	UD	104	247	ug/m3
64-17-5	Ethanol	250	471	DQ	60.3	94.2	ug/m3
74-87-3	Chloromethane	9.80	20.2	UD	20.2	103	ug/m3
75-01-4	Vinyl Chloride	1.40	3.58	UD	3.58	7.67	ug/m3
74-83-9	Bromomethane	14.0	54.4	UD	54.4	194	ug/m3
75-00-3	Chloroethane	17.0	44.9	UD	44.9	132	ug/m3
109-99-9	Tetrahydrofuran	13.0	38.3	UDQ	38.3	147	ug/m3
75-69-4	Trichlorofluoromethane	16.0	89.9	UD	89.9	281	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	16.0	123	UD	123	383	ug/m3
76-14-2	Dichlorotetrafluoroethane	8.80	61.5	UD	61.5	349	ug/m3
593-60-2	Bromoethene	12.0	52.5	UD	52.5	219	ug/m3
75-65-0	tert-Butyl alcohol	19.0	57.6	UD	57.6	152	ug/m3
142-82-5	Heptane	11.0	45.1	UDQ	45.1	205	ug/m3
67-63-0	Isopropyl Alcohol	36.1	88.7	JD	17.0	123	ug/m3
75-35-4	1,1-Dichloroethene	14.0	55.5	UD	55.5	198	ug/m3
67-64-1	Acetone	610	1450	D	57.0	119	ug/m3
75-15-0	Carbon Disulfide	16.0	49.8	UD	49.8	156	ug/m3
1634-04-4	Methyl tert-Butyl Ether	12.0	43.3	UD	43.3	180	ug/m3
75-09-2	Methylene Chloride	19.0	66.0	UD	66.0	174	ug/m3
156-60-5	trans-1,2-Dichloroethene	19.0	75.3	UD	75.3	198	ug/m3
75-34-3	1,1-Dichloroethane	13.0	52.6	UD	52.6	202	ug/m3
110-82-7	Cyclohexane	22.0	75.7	UD	75.7	172	ug/m3
78-93-3	2-Butanone	12.0	35.4	UD	35.4	147	ug/m3
56-23-5	Carbon Tetrachloride	1.10	6.92	UD	6.92	18.9	ug/m3
156-59-2	cis-1,2-Dichloroethene	8.90	35.3	UD	35.3	198	ug/m3
67-66-3	Chloroform	8.30	40.5	UD	40.5	244	ug/m3
71-55-6	1,1,1-Trichloroethane	0.95	5.18	UD	5.18	16.4	ug/m3
540-84-1	2,2,4-Trimethylpentane	10.0	46.7	UD	46.7	234	ug/m3
71-43-2	Benzene	8.70	27.8	UD	27.8	160	ug/m3
107-06-2	1,2-Dichloroethane	9.10	36.8	UD	36.8	202	ug/m3
79-01-6	Trichloroethene	1.70	9.14	UD	9.14	16.1	ug/m3
78-87-5	1,2-Dichloropropane	11.0	50.8	UD	50.8	231	ug/m3
75-27-4	Bromodichloromethane	7.70	51.6	UD	51.6	335	ug/m3
108-10-1	4-Methyl-2-Pentanone	9.30	38.1	UD	38.1	205	ug/m3
108-88-3	Toluene	11.4	43.0	JD	41.5	188	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:	04/01/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	IA-B2-2-03312025DL2	SDG No.:	Q1726
Lab Sample ID:	Q1726-03DL2	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
VL042390.D	100		04/18/25 14:14	VL041825

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	6.00	27.2	UD	27.2	227	ug/m3
10061-01-5	cis-1,3-Dichloropropene	6.40	29.1	UD	29.1	227	ug/m3
79-00-5	1,1,2-Trichloroethane	7.10	38.7	UD	38.7	273	ug/m3
124-48-1	Dibromochloromethane	6.60	56.2	UD	56.2	426	ug/m3
106-93-4	1,2-Dibromoethane	7.20	55.3	UD	55.3	76.8	ug/m3
127-18-4	Tetrachloroethene	1.50	10.2	UD	10.2	20.3	ug/m3
108-90-7	Chlorobenzene	7.60	35.0	UD	35.0	230	ug/m3
100-41-4	Ethyl Benzene	12.0	52.1	UD	52.1	217	ug/m3
179601-23-1	m/p-Xylene	21.0	91.2	UD	91.2	434	ug/m3
95-47-6	o-Xylene	12.0	52.1	UD	52.1	217	ug/m3
100-42-5	Styrene	11.0	46.8	UD	46.8	213	ug/m3
75-25-2	Bromoform	5.70	58.9	UD	58.9	517	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	1.10	7.55	UD	7.55	20.6	ug/m3
95-49-8	2-Chlorotoluene	11.0	57.0	UD	57.0	259	ug/m3
108-67-8	1,3,5-Trimethylbenzene	11.0	54.1	UD	54.1	246	ug/m3
95-63-6	1,2,4-Trimethylbenzene	7.80	38.4	UD	38.4	246	ug/m3
541-73-1	1,3-Dichlorobenzene	8.00	48.1	UD	48.1	301	ug/m3
106-46-7	1,4-Dichlorobenzene	5.30	31.9	UD	31.9	301	ug/m3
95-50-1	1,2-Dichlorobenzene	7.50	45.1	UD	45.1	301	ug/m3
120-82-1	1,2,4-Trichlorobenzene	8.50	63.1	UD	63.1	371	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	8.50	90.7	UD	90.7	533	ug/m3
106-99-0	1,3-Butadiene	13.0	28.8	UD	28.8	111	ug/m3
91-20-3	Naphthalene	7.50	39.3	UD	39.3	52.4	ug/m3
622-96-8	4-Ethyltoluene	12.0	59.0	UD	59.0	246	ug/m3
110-54-3	Hexane	11.0	38.8	UD	38.8	176	ug/m3
107-05-1	Allyl Chloride	15.0	47.0	UD	47.0	157	ug/m3
123-91-1	1,4-Dioxane	21.0	75.7	UD	75.7	180	ug/m3
80-62-6	Methyl Methacrylate	8.60	35.2	UDQ	35.2	205	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	127000		2.79			
540-36-3	1,4-Difluorobenzene	395000		3.962			
3114-55-4	Chlorobenzene-d5	343000		8.885			

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

Report of Analysis

Client:	Woodard & Curran	Date Collected:	04/01/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	IA-B2-2-03312025DL2	SDG No.:	Q1726
Lab Sample ID:	Q1726-03DL2	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
VL042390.D	100		04/18/25 14:14	VL041825

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\VL041825\
Data File : VL042390.D
Acq On : 18 Apr 2025 14:14
Operator : SY/MD
Sample : Q1726-03DL2 100X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 18 22:59:21 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-B2-2-03312025DL2

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.790	49	127324	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	395389	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	342875	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	281379	9.987	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 99.900%			
Target Compounds						Qvalue
13) Ethanol	1.722	45	3867	2.494	ppbv	# 24
15) Acetone	1.839	43	126935	6.090	ppbv	97
19) Isopropyl Alcohol	1.887	45	4184	0.361	ppbv	# 1
53) Toluene	6.936	91	5816m	0.114	ppbv	

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

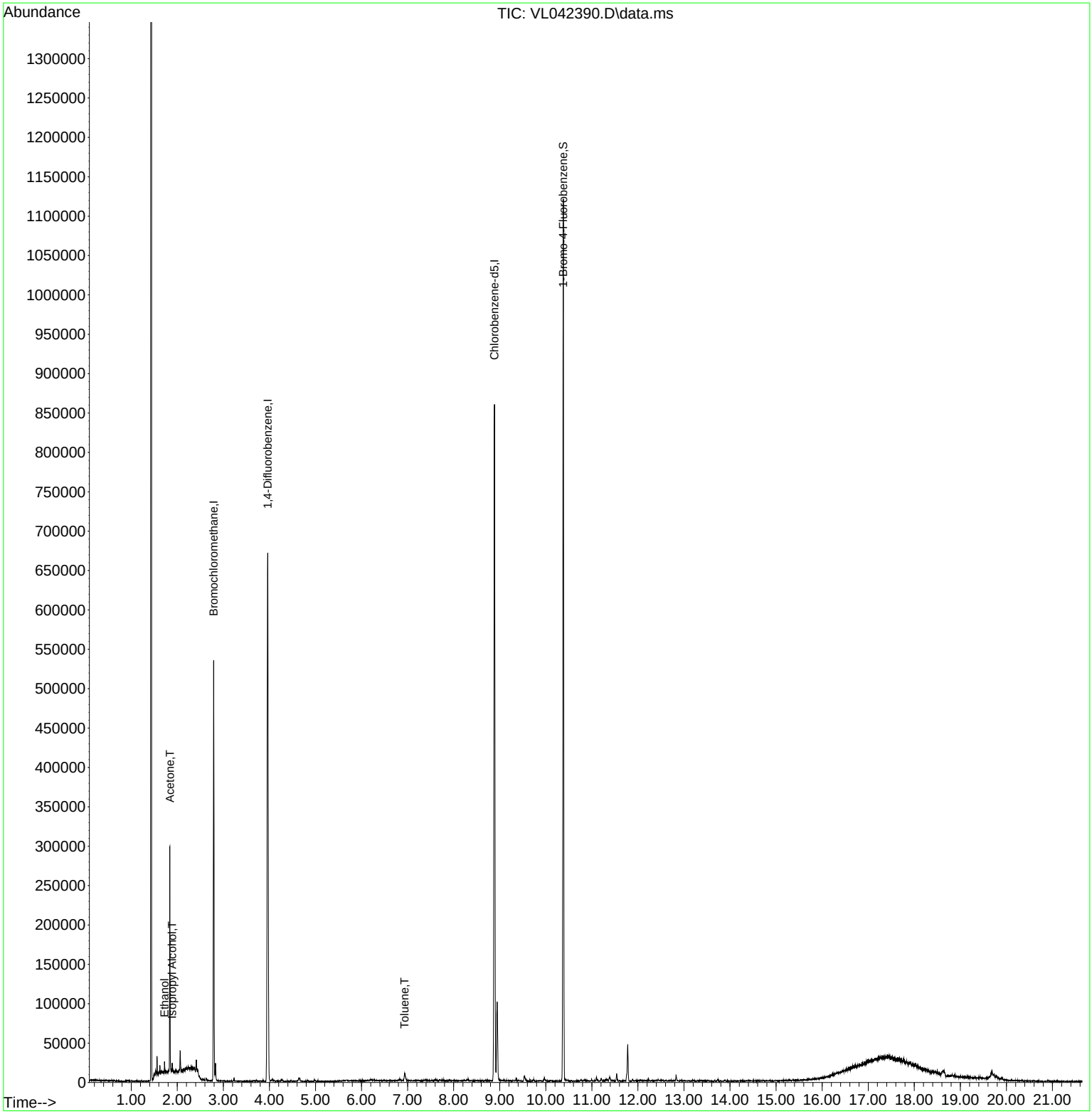
Quantitation Report (QT Reviewed)

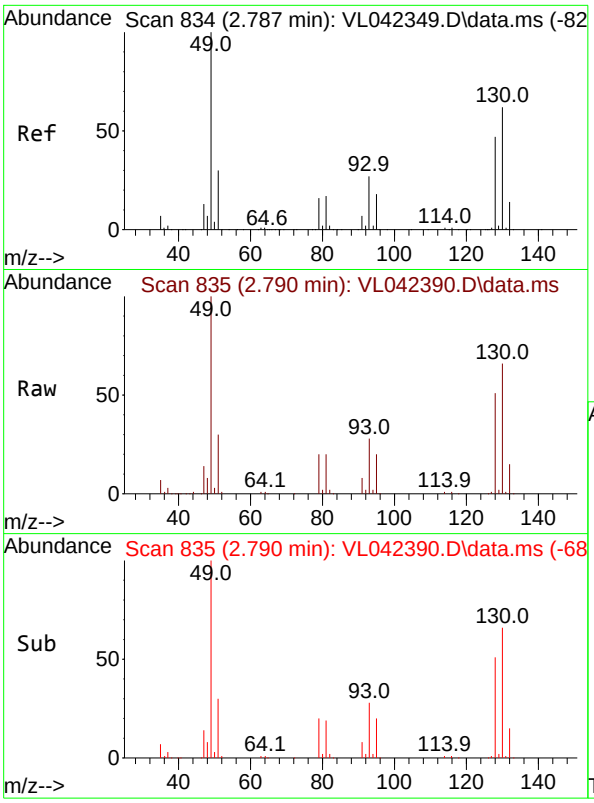
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041825\
Data File : VL042390.D
Acq On : 18 Apr 2025 14:14
Operator : SY/MD
Sample : Q1726-03DL2 100X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 18 22:59:21 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-B2-2-03312025DL2

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025

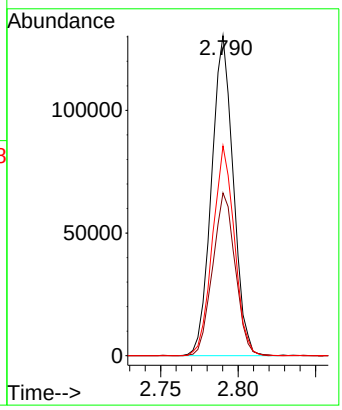




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042390.D
Acq: 18 Apr 2025 14:14

Tgt Ion: 49 Resp: 12732

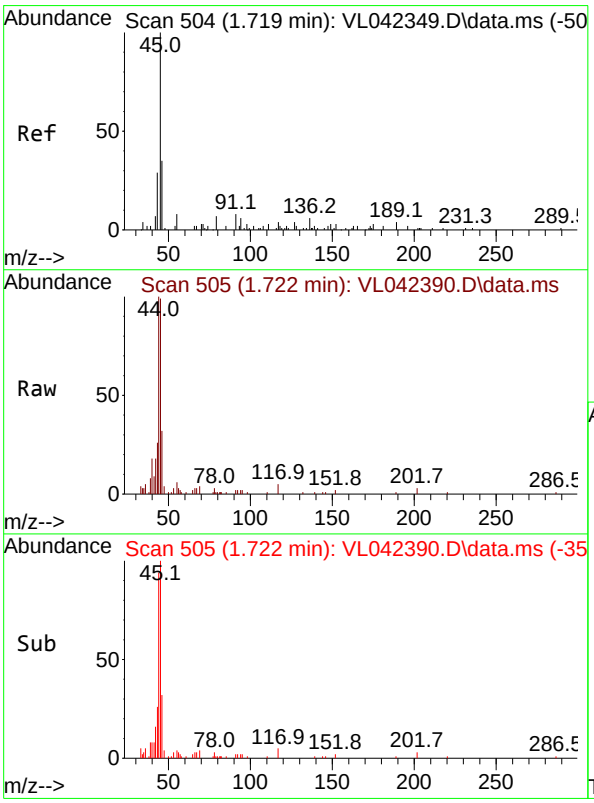
Ion	Ratio	Lower	Upper
49	100		
128	52.6	22.8	68.4
130	65.9	29.3	88.0



Instrument :
MSVOA_L
ClientSampleId :
IA-B2-2-03312025DL2

Manual Integrations
APPROVED

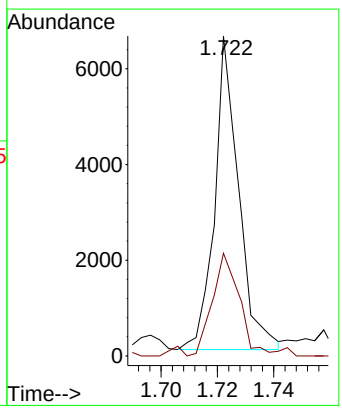
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025

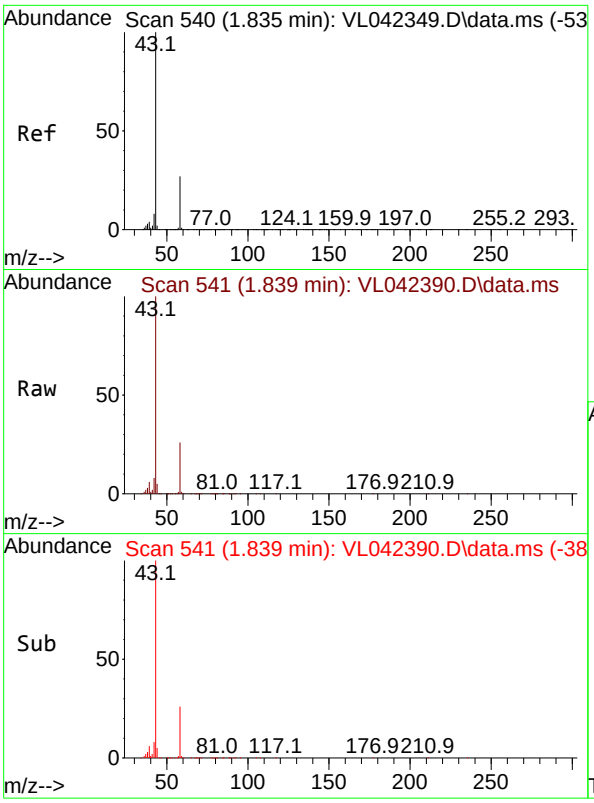


#13
Ethanol
Concen: 2.494 ppbv
RT: 1.722 min Scan# 505
Delta R.T. 0.003 min
Lab File: VL042390.D
Acq: 18 Apr 2025 14:14

Tgt Ion: 45 Resp: 3867

Ion	Ratio	Lower	Upper
45	100		
46	0.0	21.9	87.7#

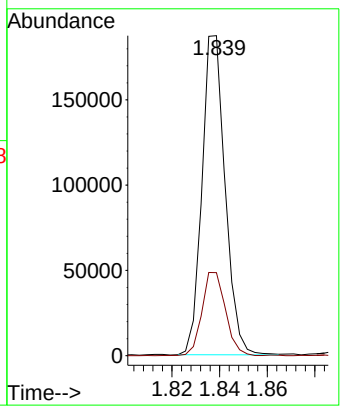




#15
Acetone
Concen: 6.090 ppbv
RT: 1.839 min Scan# 54
Delta R.T. 0.003 min
Lab File: VL042390.D
Acq: 18 Apr 2025 14:14

Tgt Ion: 43 Resp: 12693

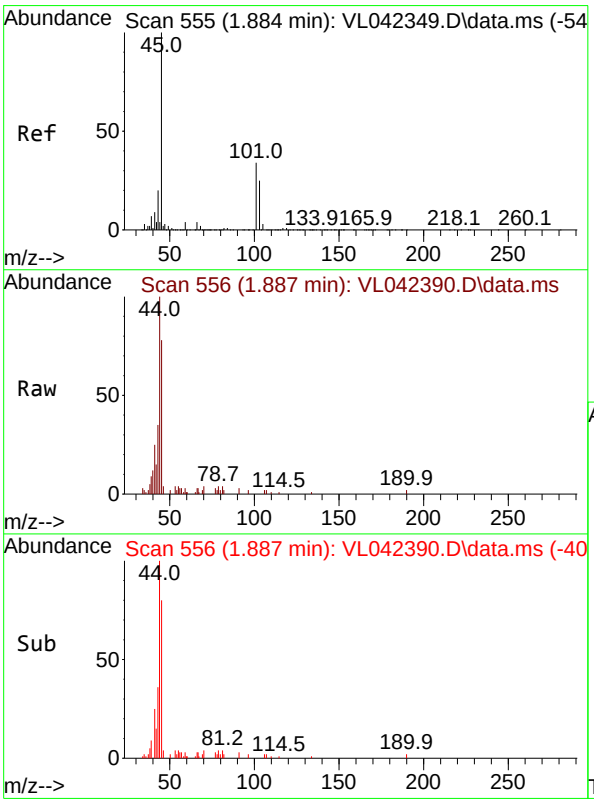
Ion	Ratio	Lower	Upper
43	100		
58	26.7	22.4	33.6



Instrument :
MSVOA_L
ClientSampleId :
IA-B2-2-03312025DL2

Manual Integrations
APPROVED

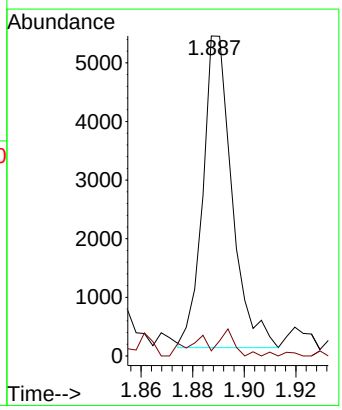
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025

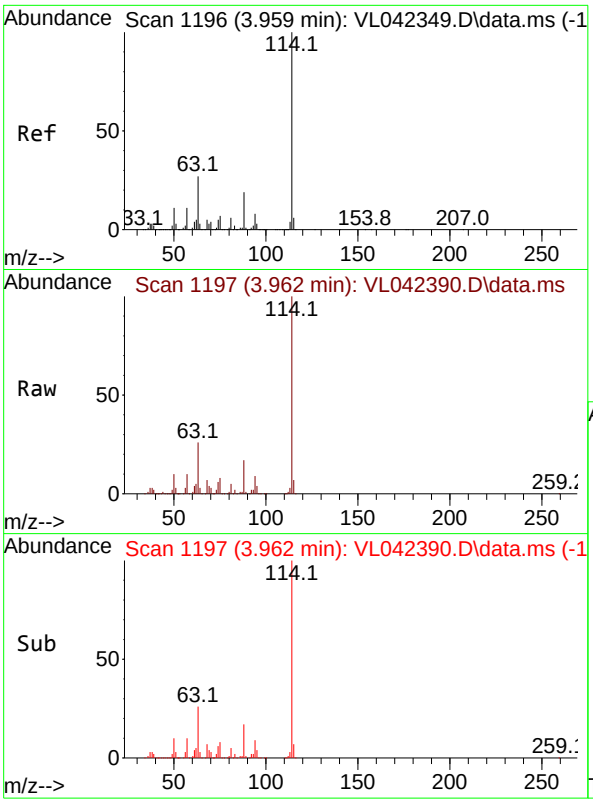


#19
Isopropyl Alcohol
Concen: 0.361 ppbv
RT: 1.887 min Scan# 556
Delta R.T. 0.003 min
Lab File: VL042390.D
Acq: 18 Apr 2025 14:14

Tgt Ion: 45 Resp: 4184

Ion	Ratio	Lower	Upper
45	100		
58	808.7	34.5	51.7#

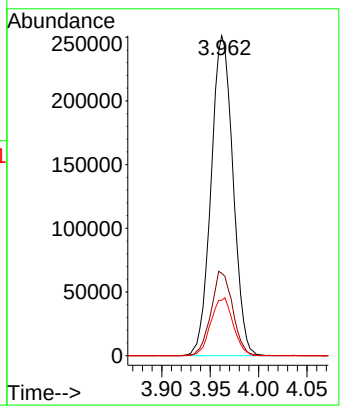




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.962 min Scan# 1
Delta R.T. 0.003 min
Lab File: VL042390.D
Acq: 18 Apr 2025 14:14

Tgt Ion:114 Resp: 39538

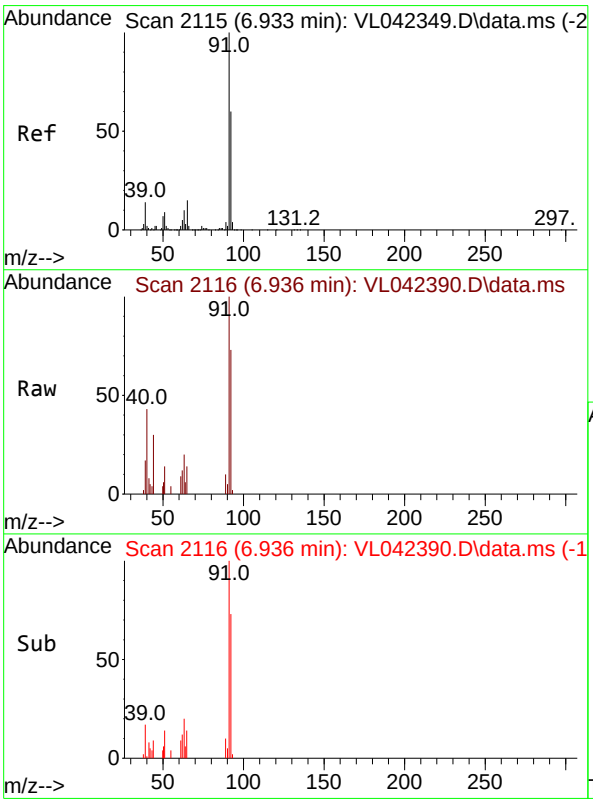
Ion	Ratio	Lower	Upper
114	100		
63	26.0	21.8	32.6
88	18.4	15.5	23.3



Instrument :
MSVOA_L
ClientSampleId :
IA-B2-2-03312025DL2

Manual Integrations
APPROVED

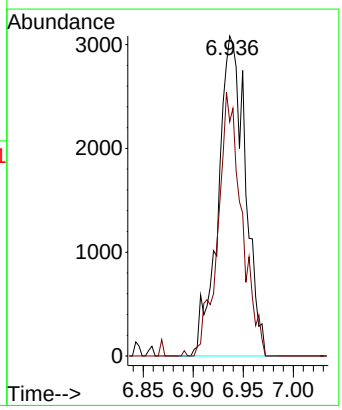
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025

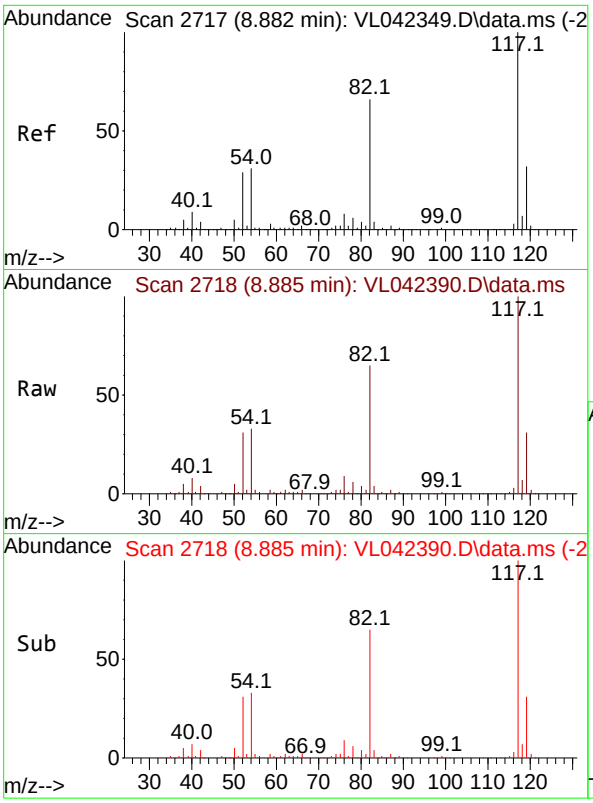


#53
Toluene
Concen: 0.114 ppbv m
RT: 6.936 min Scan# 2116
Delta R.T. 0.003 min
Lab File: VL042390.D
Acq: 18 Apr 2025 14:14

Tgt Ion: 91 Resp: 5816

Ion	Ratio	Lower	Upper
91	100		
92	72.8	48.2	72.4#

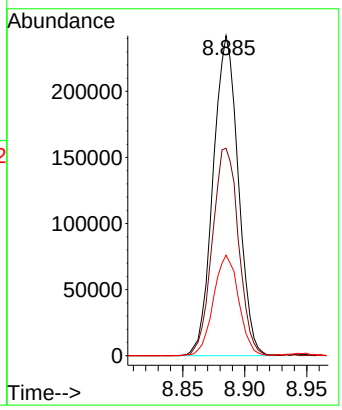




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.885 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042390.D
Acq: 18 Apr 2025 14:14

Tgt Ion:117 Resp: 34287

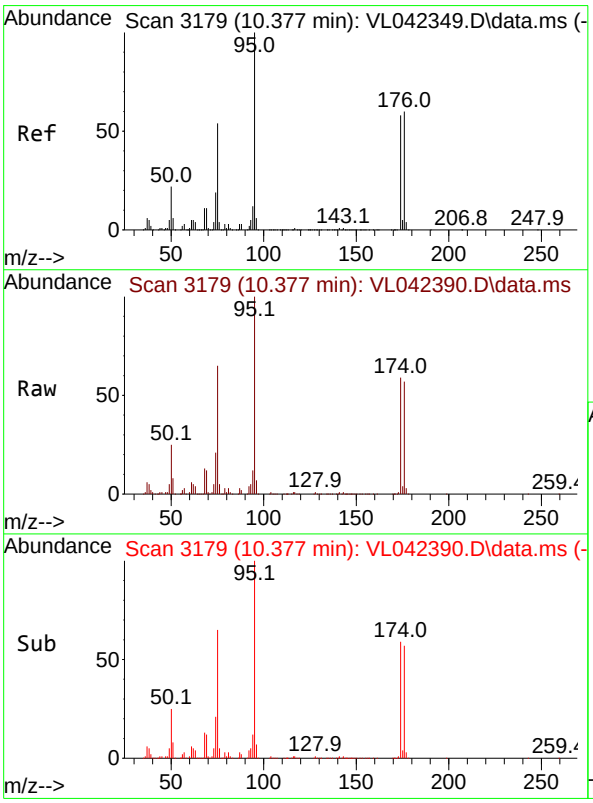
Ion	Ratio	Lower	Upper
117	100		
82	67.7	57.8	86.6
119	31.6	25.2	37.8



Instrument :
MSVOA_L
ClientSampleId :
IA-B2-2-03312025DL2

Manual Integrations
APPROVED

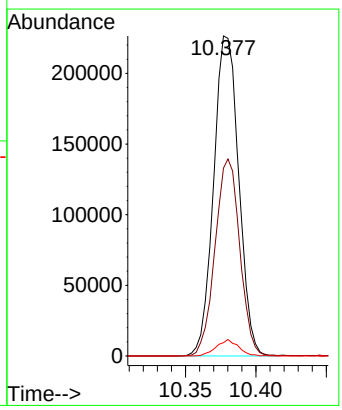
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025



#68
1-Bromo-4-Fluorobenzene
Concen: 9.987 ppbv
RT: 10.377 min Scan# 3179
Delta R.T. 0.000 min
Lab File: VL042390.D
Acq: 18 Apr 2025 14:14

Tgt Ion: 95 Resp: 281379

Ion	Ratio	Lower	Upper
95	100		
174	60.5	48.5	72.7
175	4.5	3.7	5.5



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:	04/01/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	IA-B2-5-03312025	SDG No.:	Q1726
Lab Sample ID:	Q1726-04	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
VL042369.D	1		04/17/25 21:45	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
64-17-5	Ethanol	270	509	EQ	0.60	0.94	ug/m3
74-87-3	Chloromethane	0.66	1.36		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
593-60-2	Bromoethene	0.12	0.52	U	0.52	2.19	ug/m3
75-65-0	tert-Butyl alcohol	0.66	2.00		0.58	1.52	ug/m3
142-82-5	Heptane	8.60	35.2		0.45	2.05	ug/m3
67-63-0	Isopropyl Alcohol	29.6	72.8	E	0.17	1.23	ug/m3
75-35-4	1,1-Dichloroethene	0.14	0.56	U	0.56	1.98	ug/m3
67-64-1	Acetone	150	356	E	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	2.90	10.1		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	2.10	7.23		0.76	1.72	ug/m3
78-93-3	2-Butanone	1.20	3.54		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	19.3	90.2	E	0.47	2.34	ug/m3
71-43-2	Benzene	1.90	6.07		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	51.4	194	E	0.41	1.88	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:	04/01/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	IA-B2-5-03312025	SDG No.:	Q1726
Lab Sample ID:	Q1726-04	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
VL042369.D	1		04/17/25 21:45	VL041725

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
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
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	0.14	0.95		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	11.3	49.1		0.52	2.17	ug/m3
179601-23-1	m/p-Xylene	38.9	169	E	0.91	4.34	ug/m3
95-47-6	o-Xylene	15.3	66.5	E	0.52	2.17	ug/m3
100-42-5	Styrene	0.38	1.62	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	1.00	5.18		0.57	2.59	ug/m3
108-67-8	1,3,5-Trimethylbenzene	7.10	34.9		0.54	2.46	ug/m3
95-63-6	1,2,4-Trimethylbenzene	19.7	96.8	E	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	0.34	2.04	J	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	2.40	12.6		0.42	0.52	ug/m3
622-96-8	4-Ethyltoluene	5.50	27.0		0.59	2.46	ug/m3
110-54-3	Hexane	5.60	19.7		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	9.80			70 (65) - 130 (135)	98%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	116000		2.787			
540-36-3	1,4-Difluorobenzene	331000		3.959			
3114-55-4	Chlorobenzene-d5	288000		8.881			
TENTITIVE IDENTIFIED COMPOUNDS							

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

Report of Analysis

Client:	Woodard & Curran	Date Collected:	04/01/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	IA-B2-5-03312025	SDG No.:	Q1726
Lab Sample ID:	Q1726-04	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
VL042369.D	1		04/17/25 21:45	VL041725

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
75-45-6	Chlorodifluoromethane	0.27		J		1.47	ppbv
115-07-1	Propene	2.60		J		1.49	ppbv
000106-97-8	Butane	8.60		J		1.62	ppbv
000096-37-7	Cyclopentane, methyl-	6.80		J		3.23	ppbv
000591-76-4	Hexane, 2-methyl-	10.4		J		4.05	ppbv
000589-34-4	Hexane, 3-methyl-	11.4		J		4.27	ppbv
000108-87-2	Cyclohexane, methyl-	9.50		J		5.66	ppbv
000592-13-2	Hexane, 2,5-dimethyl-	7.00		J		6.20	ppbv
000565-75-3	Pentane, 2,3,4-trimethyl-	13.4		J		6.83	ppbv
000589-81-1	Heptane, 3-methyl-	9.40		J		7.60	ppbv
000111-65-9	Octane	9.90		J		8.30	ppbv
98-82-8	Isopropylbenzene	0.99		J		10.5	ppbv
103-65-1	n-propylbenzene	3.40		J		11.0	ppbv
135-98-8	sec-Butylbenzene	0.24		J		11.8	ppbv
99-87-6	p-Isopropyltoluene	0.44		J		11.9	ppbv
104-51-8	n-Butylbenzene	1.30		J		12.3	ppbv
000874-41-9	Benzene, 1-ethyl-2,4-dimethyl-	7.50		J		12.6	ppbv
91-57-6	Naphthalene,2-methyl-	1.30		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 : VL042369.D
Acq On : 17 Apr 2025 21:45
Operator : SY/MD
Sample : Q1726-04
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 18 02:44:30 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-B2-5-03312025

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	115766	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.959	114	331154	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.881	117	288378	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.377	95	233305	9.845	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 98.500%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.499	85	9802	0.479	ppbv		95
3) Chlorodifluoromethane	1.473	51	5213m	0.268	ppbv		
4) Chloromethane	1.534	50	5300	0.655	ppbv	#	81
9) Propene	1.486	41	23207m	2.616	ppbv		
10) Heptane	4.978	43	213280	8.559	ppbv		95
11) Trichlorofluoromethane	1.877	101	4337	0.223	ppbv		92
13) Ethanol	1.722	45	387433	274.810	ppbv		76
15) Acetone	1.835	43	2882826	152.118	ppbv	#	50
17) tert-Butyl alcohol	2.046	59	15500m	0.660	ppbv		
19) Isopropyl Alcohol	1.887	45	311784	29.616	ppbv	#	33
20) Methylene Chloride	2.062	84	21493	2.896	ppbv		95
26) Hexane	2.826	57	104975	5.551	ppbv	#	36
30) Cyclohexane	3.855	84	32446	2.123	ppbv		89
34) 2-Butanone	2.560	43	31500	1.203	ppbv		99
35) Carbon Tetrachloride	3.771	117	2190m	0.073	ppbv		
36) Benzene	3.658	78	67666	1.894	ppbv		98
44) 2,2,4-Trimethylpentane	4.641	57	1192538	19.331	ppbv		95
52) Tetrachloroethene	8.234	164	1929m	0.140	ppbv		
53) Toluene	6.933	91	2204506	51.432	ppbv		99
58) Ethyl Benzene	9.354	91	646931	11.323	ppbv		100
59) m/p-Xylene	9.532	91	1789840	38.886	ppbv		100
60) o-Xylene	9.963	91	709518	15.308	ppbv		99
61) Styrene	9.869	104	8504	0.384	ppbv	#	91
62) Isopropylbenzene	10.539	105	67289	0.989	ppbv		100
64) n-propylbenzene	10.989	120	58634	3.428	ppbv		95
67) sec-Butylbenzene	11.769	105	20996	0.241	ppbv	#	77
69) p-Isopropyltoluene	11.924	119	33273	0.440	ppbv		98
70) n-Butylbenzene	12.286	91	102145	1.298	ppbv	#	35
71) 2-Chlorotoluene	10.901	91	54169	1.015	ppbv		97
72) 4-Ethyltoluene	11.124	105	313941	5.540	ppbv	#	56
73) 1,3,5-Trimethylbenzene	11.205	105	354735	7.091	ppbv		100
74) 1,2,4-Trimethylbenzene	11.539	105	1151476	19.707	ppbv	#	65
76) 1,4-Dichlorobenzene	11.671	146	10434	0.342	ppbv	#	50
79) Naphthalene	13.513	128	166277	2.380	ppbv		98
80) Naphthalene,2-methyl-	14.458	142	50980	1.280	ppbv		96

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

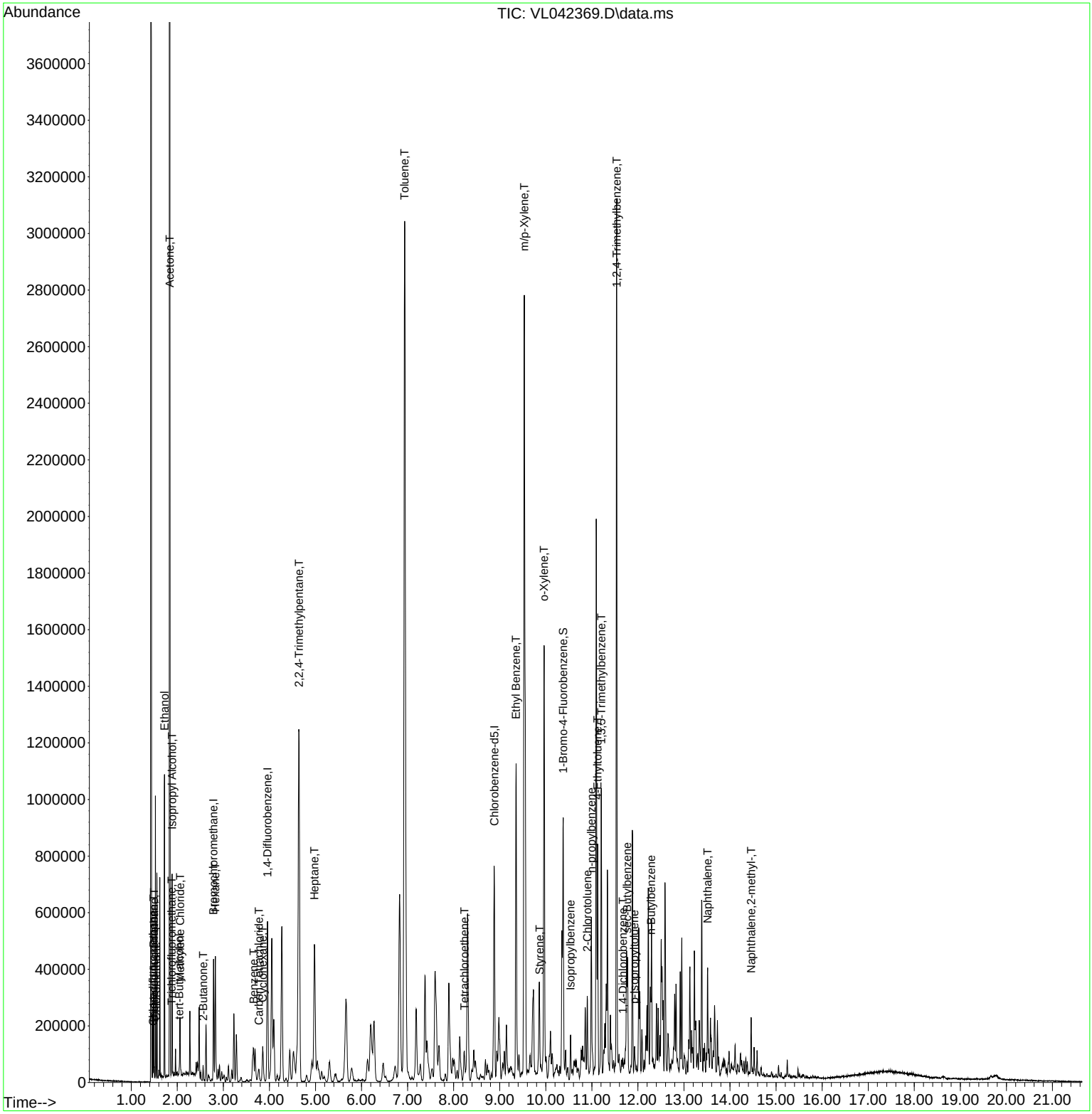
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042369.D
Acq On : 17 Apr 2025 21:45
Operator : SY/MD
Sample : Q1726-04
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

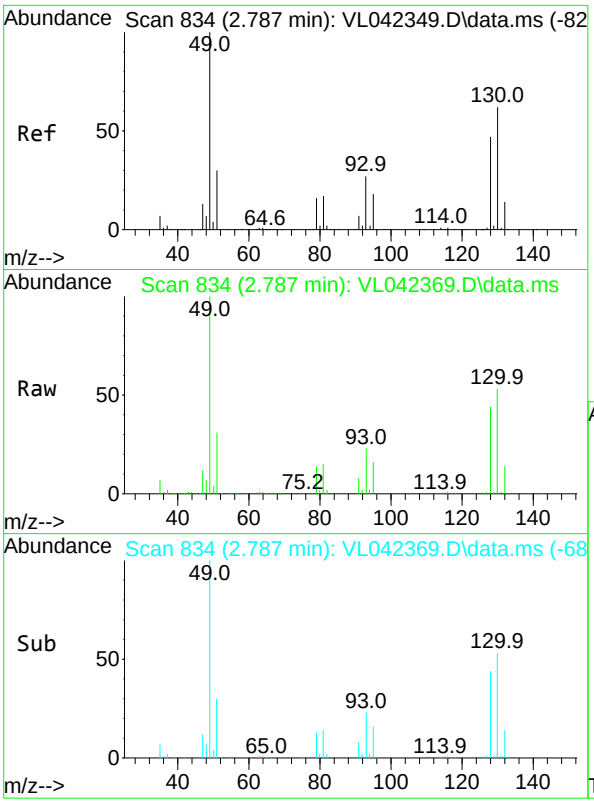
Quant Time: Apr 18 02:44:30 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025

Manual Integrations APPROVED

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

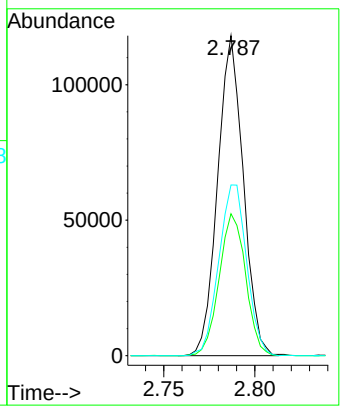




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

Tgt Ion: 49 Resp: 11576

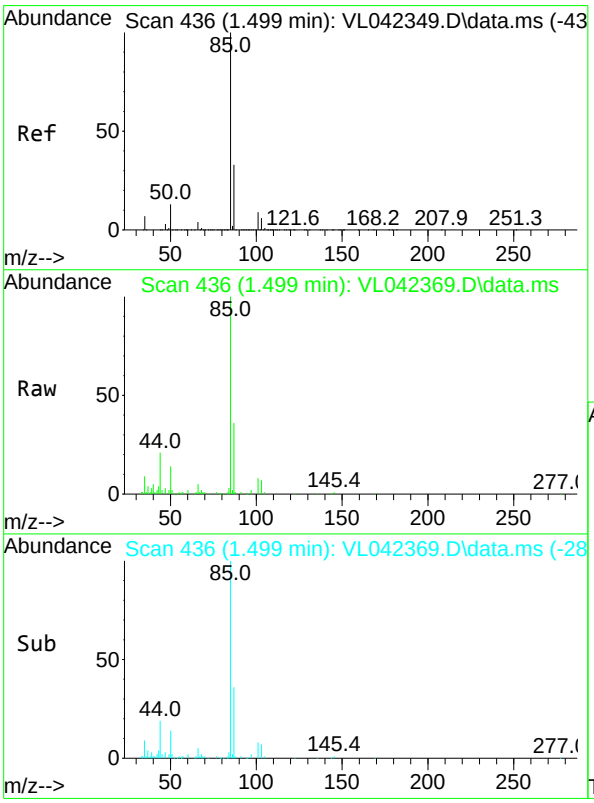
Ion	Ratio	Lower	Upper
49	100		
128	45.8	22.8	68.4
130	58.0	29.3	88.0



Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025

Manual Integrations
APPROVED

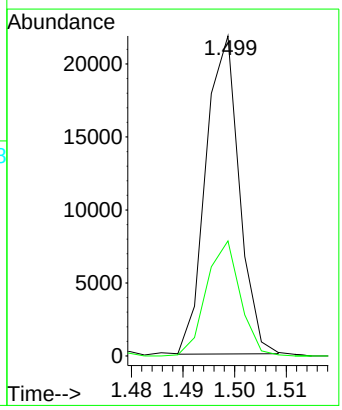
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

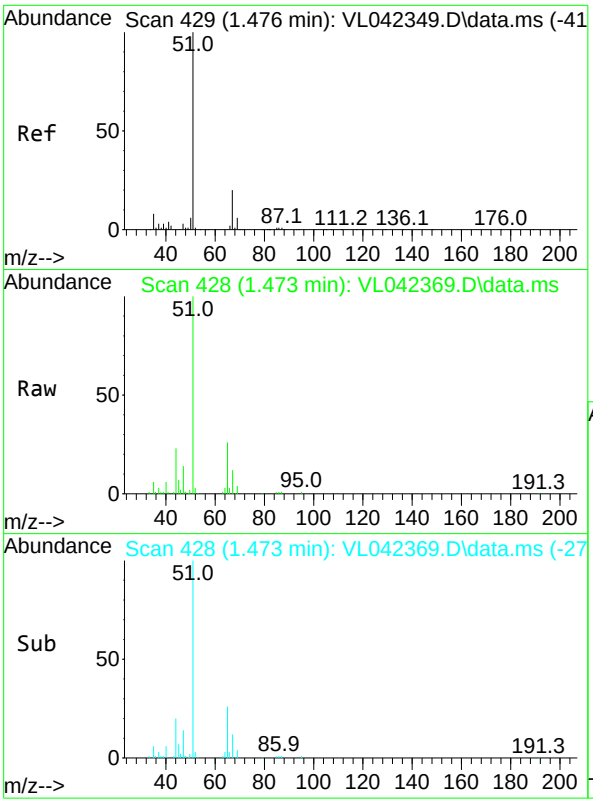


#2
Dichlorodifluoromethane
Concen: 0.479 ppbv
RT: 1.499 min Scan# 436
Delta R.T. -0.000 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

Tgt Ion: 85 Resp: 9802

Ion	Ratio	Lower	Upper
85	100		
87	35.9	26.6	39.8





#3
Chlorodifluoromethane
Concen: 0.268 ppbv m
RT: 1.473 min Scan# 4
Delta R.T. -0.003 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

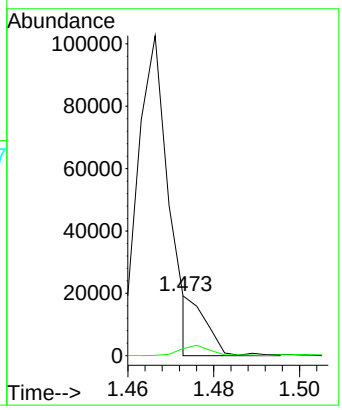
Tgt Ion: 51 Resp: 521

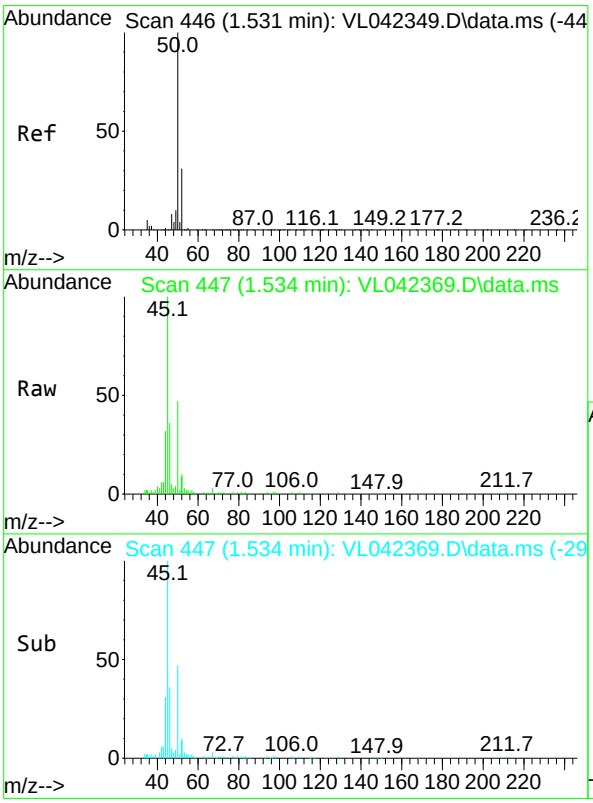
Ion	Ratio	Lower	Upper
51	100		
67	32.0	16.2	24.4#

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025

Manual Integrations
APPROVED

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

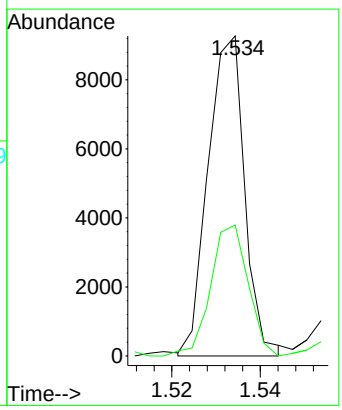


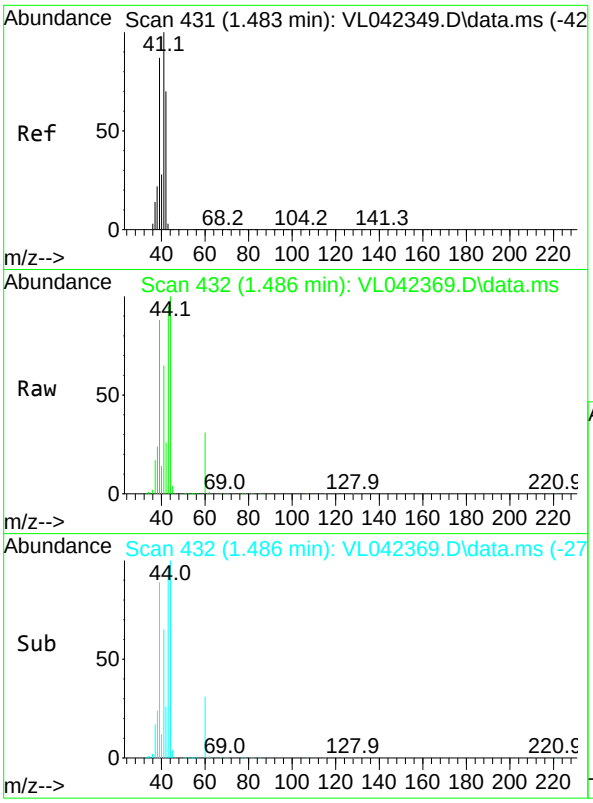


#4
Chloromethane
Concen: 0.655 ppbv
RT: 1.534 min Scan# 447
Delta R.T. 0.003 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

Tgt Ion: 50 Resp: 5300

Ion	Ratio	Lower	Upper
50	100		
52	41.3	24.7	37.1#

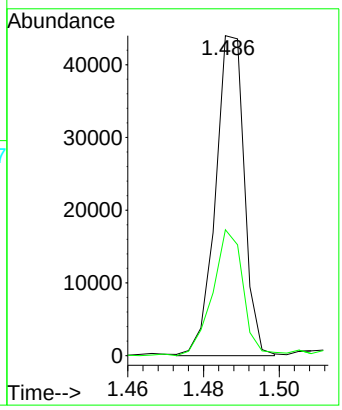




#9
Propene
Concen: 2.616 ppbv m
RT: 1.486 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

Tgt Ion: 41 Resp: 2320

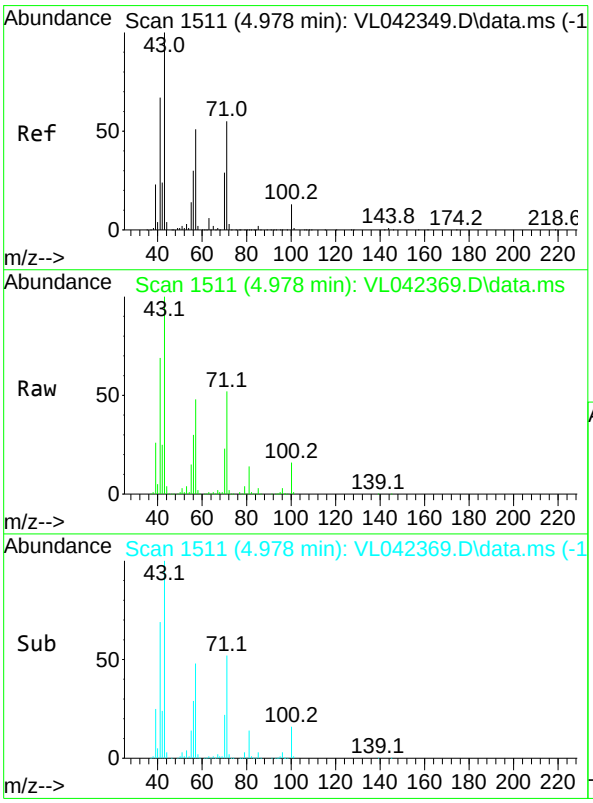
Ion	Ratio	Lower	Upper
41	100		
42	243.7	56.2	84.4



Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025

Manual Integrations
APPROVED

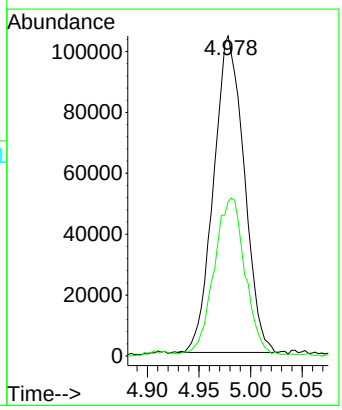
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

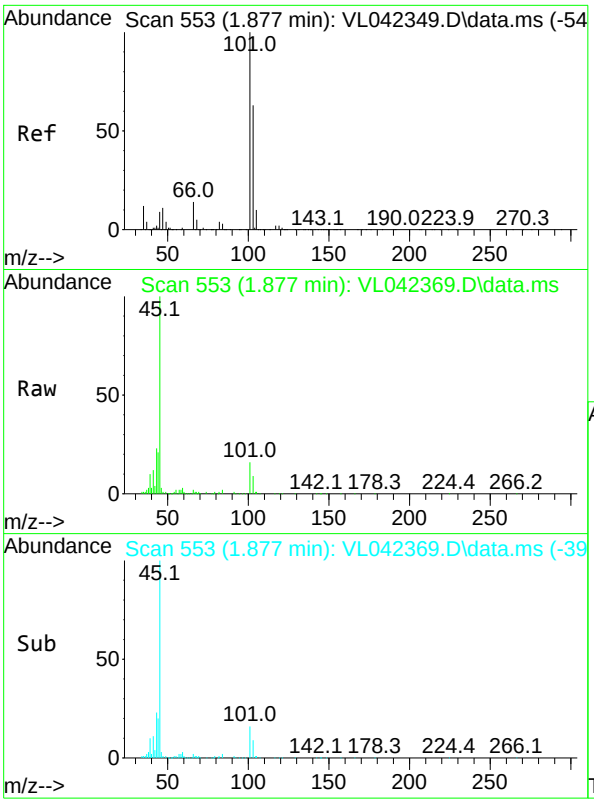


#10
Heptane
Concen: 8.559 ppbv
RT: 4.978 min Scan# 1511
Delta R.T. -0.000 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

Tgt Ion: 43 Resp: 213280

Ion	Ratio	Lower	Upper
43	100		
57	53.1	39.9	59.9

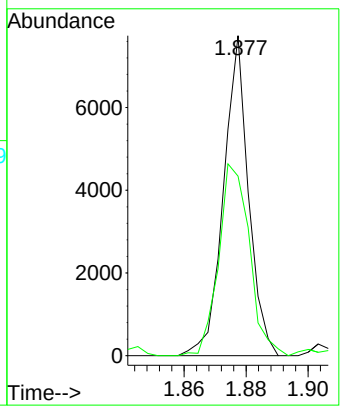




#11
Trichlorofluoromethane
Concen: 0.223 ppbv
RT: 1.877 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

Tgt Ion:101 Resp: 433

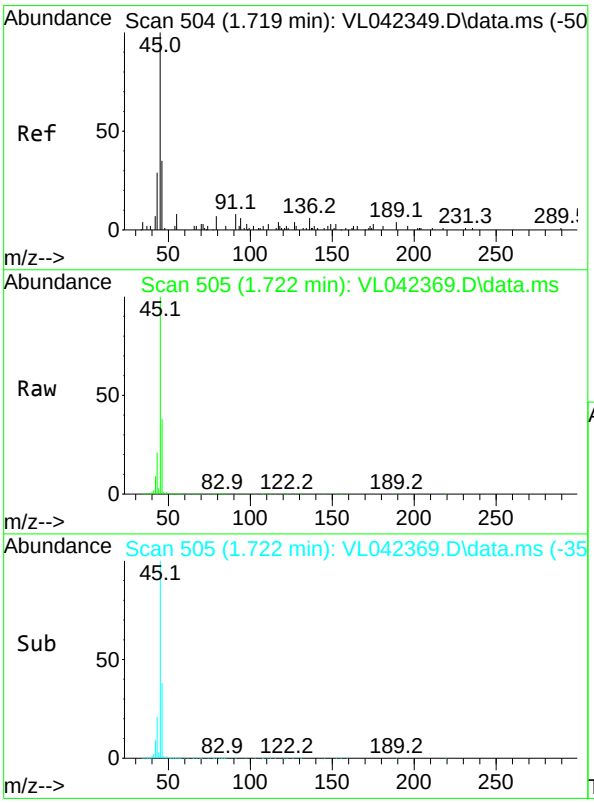
Ion	Ratio	Lower	Upper
101	100		
103	56.1	50.1	75.1



Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025

Manual Integrations
APPROVED

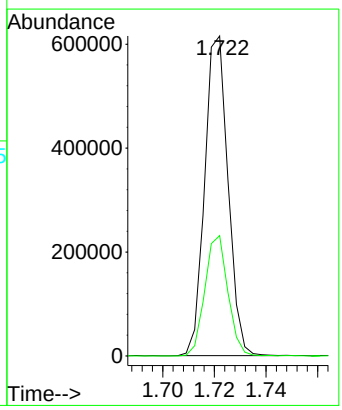
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

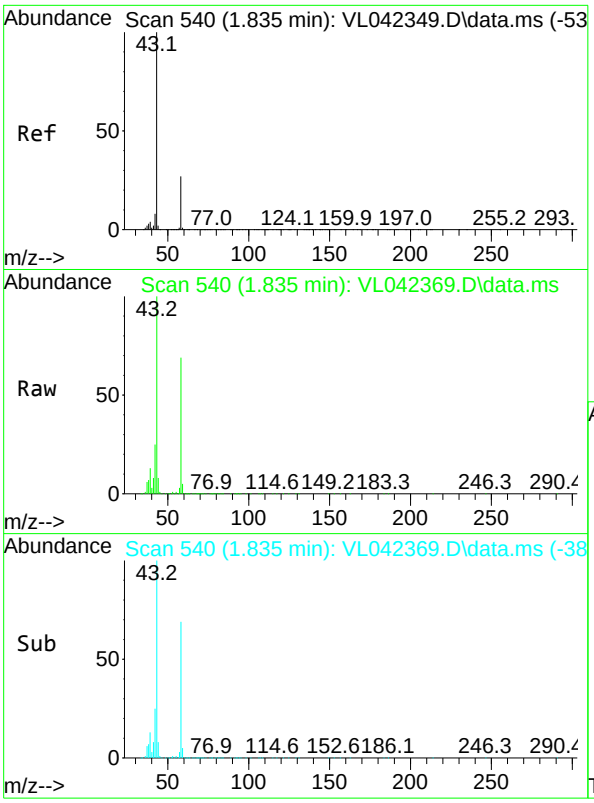


#13
Ethanol
Concen: 274.810 ppbv
RT: 1.722 min Scan# 505
Delta R.T. 0.003 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

Tgt Ion: 45 Resp: 387433

Ion	Ratio	Lower	Upper
45	100		
46	37.4	21.9	87.7





#15
Acetone
Concen: 152.118 ppbv
RT: 1.835 min Scan# 54
Delta R.T. -0.000 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

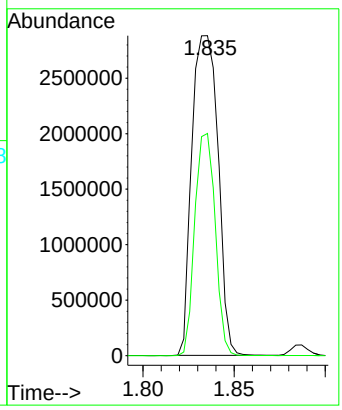
Tgt Ion: 43 Resp: 288282

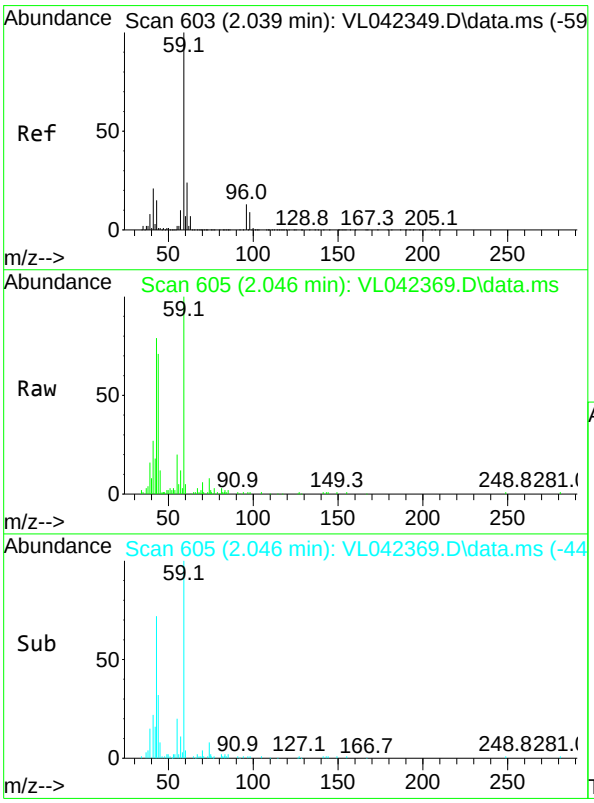
Ion	Ratio	Lower	Upper
43	100		
58	54.3	22.4	33.6#

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025

Manual Integrations
APPROVED

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

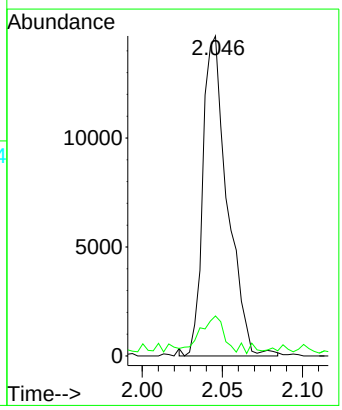


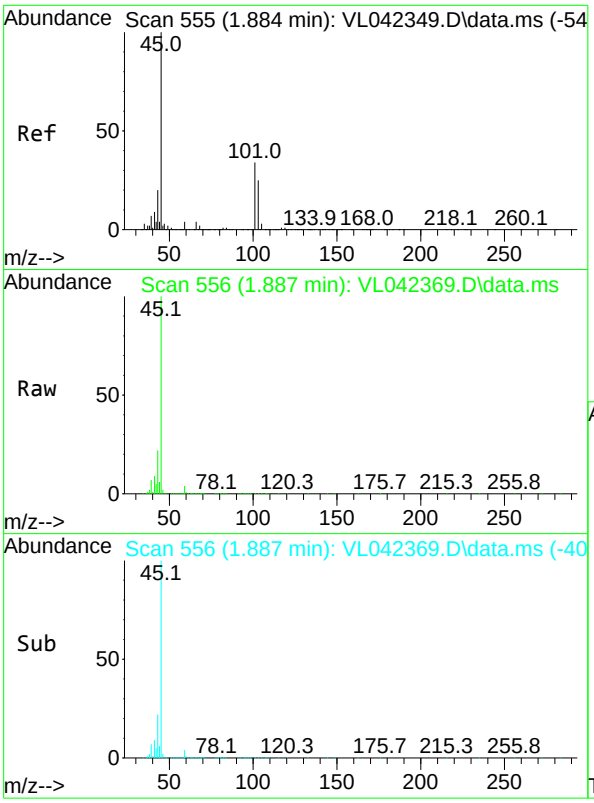


#17
tert-Butyl alcohol
Concen: 0.660 ppbv m
RT: 2.046 min Scan# 605
Delta R.T. 0.006 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

Tgt Ion: 59 Resp: 15500

Ion	Ratio	Lower	Upper
59	100		
57	29.9	8.7	13.1#





#19
Isopropyl Alcohol
Concen: 29.616 ppbv
RT: 1.887 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

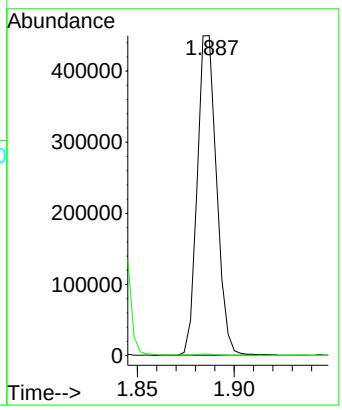
Tgt Ion: 45 Resp: 31178

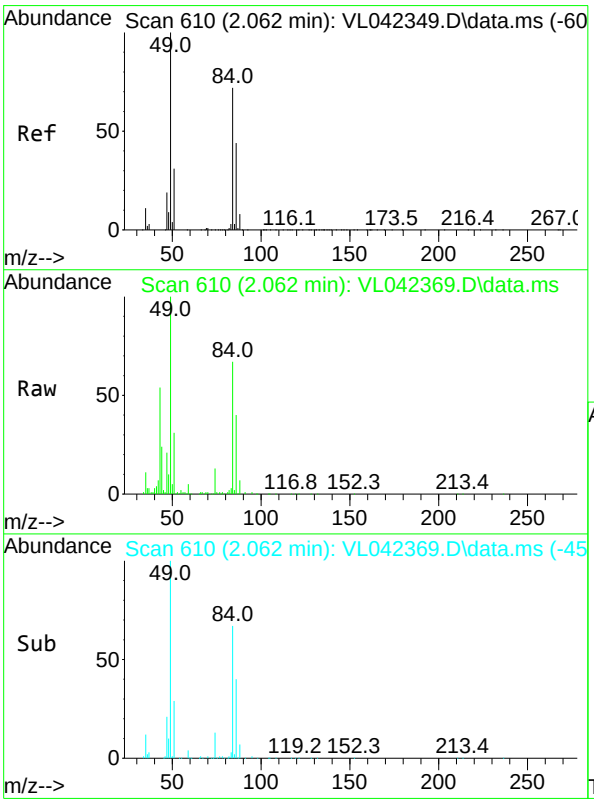
Ion	Ratio	Lower	Upper
45	100		
58	0.0	34.5	51.7#

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025

Manual Integrations
APPROVED

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

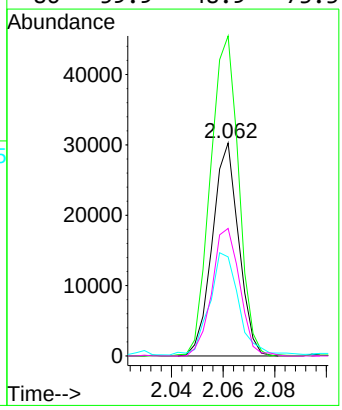


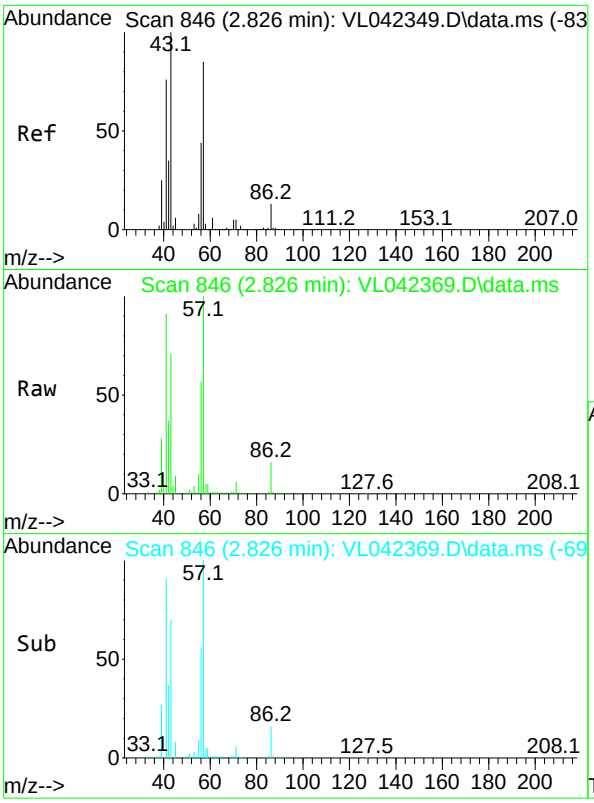


#20
Methylene Chloride
Concen: 2.896 ppbv
RT: 2.062 min Scan# 610
Delta R.T. -0.000 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

Tgt Ion: 84 Resp: 21493

Ion	Ratio	Lower	Upper
84	100		
49	149.6	111.6	167.4
51	45.0	35.1	52.7
86	59.9	48.9	73.3

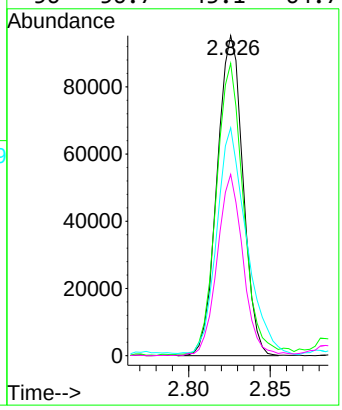




#26
Hexane
Concen: 5.551 ppbv
RT: 2.826 min Scan# 84
Delta R.T. -0.000 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

Tgt Ion: 57 Resp: 10497

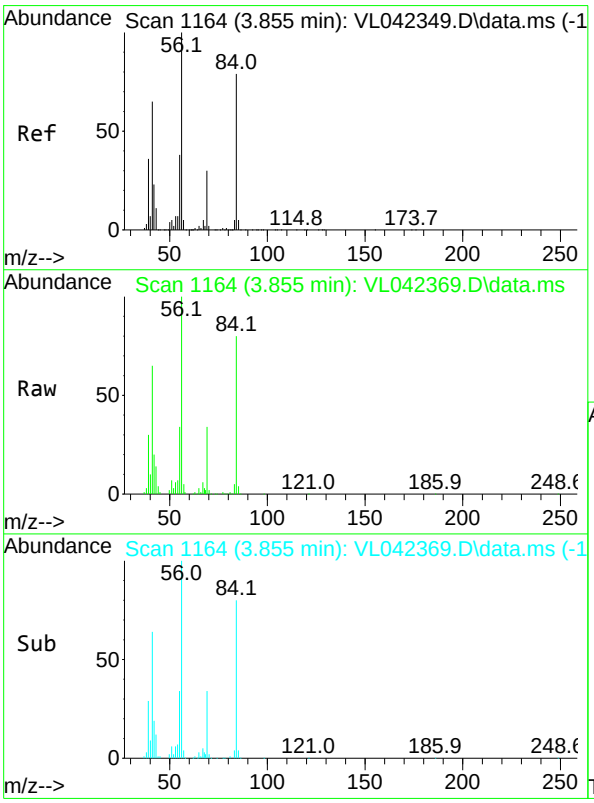
Ion	Ratio	Lower	Upper
57	100		
41	96.7	77.9	116.9
43	80.2	208.4	312.6
56	56.7	43.1	64.7



Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025

Manual Integrations
APPROVED

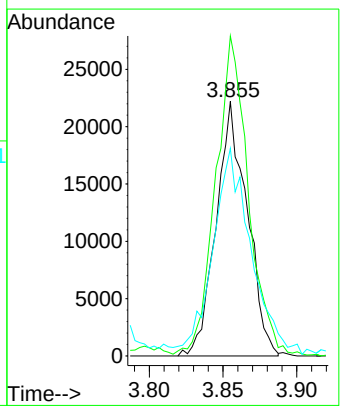
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

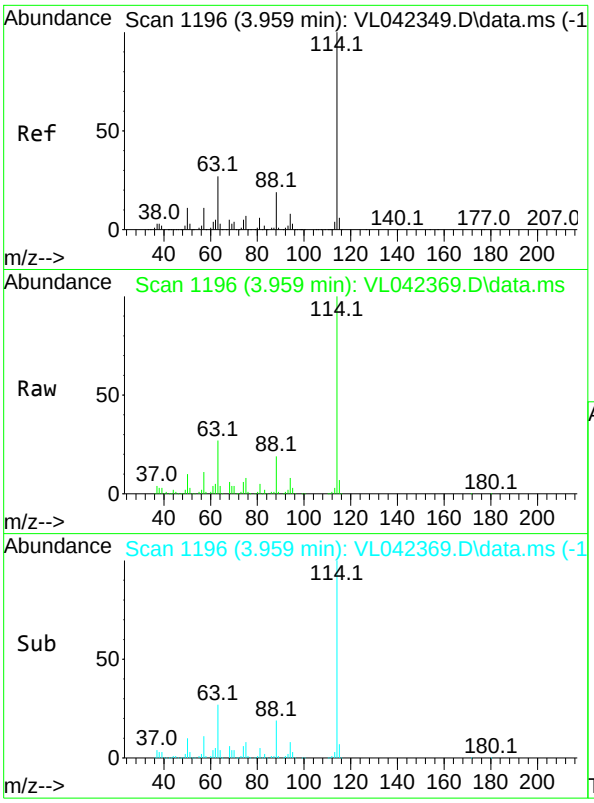


#30
Cyclohexane
Concen: 2.123 ppbv
RT: 3.855 min Scan# 1164
Delta R.T. -0.000 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

Tgt Ion: 84 Resp: 32446

Ion	Ratio	Lower	Upper
84	100		
56	132.7	101.0	151.4
41	100.9	67.4	101.0

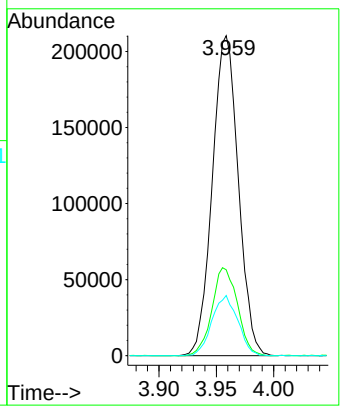




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.959 min Scan# 11
Delta R.T. -0.000 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

Tgt Ion:114 Resp: 331154

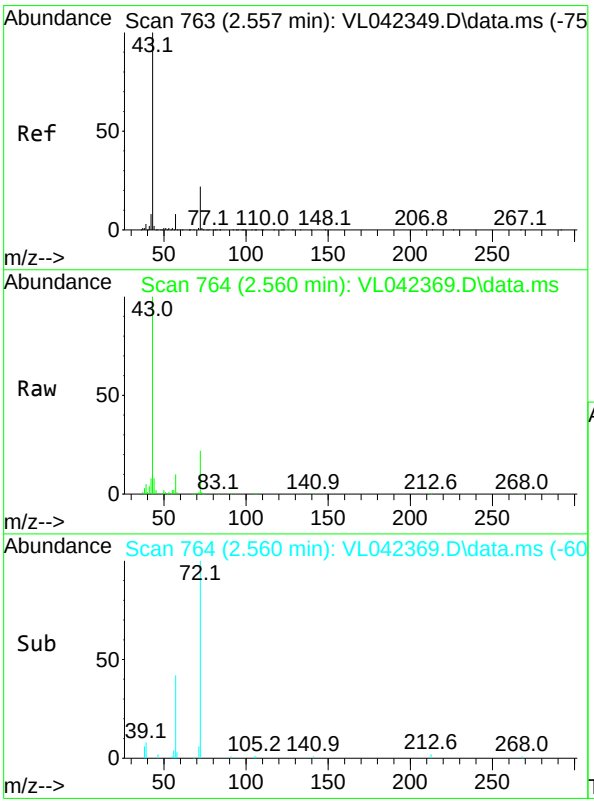
Ion	Ratio	Lower	Upper
114	100		
63	27.0	21.8	32.6
88	18.8	15.5	23.3



Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025

Manual Integrations
APPROVED

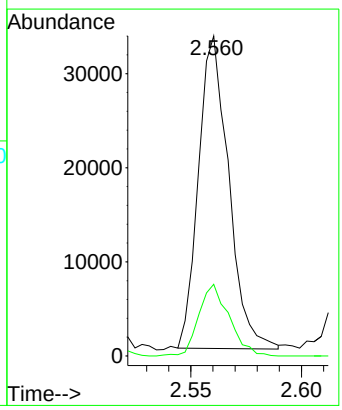
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

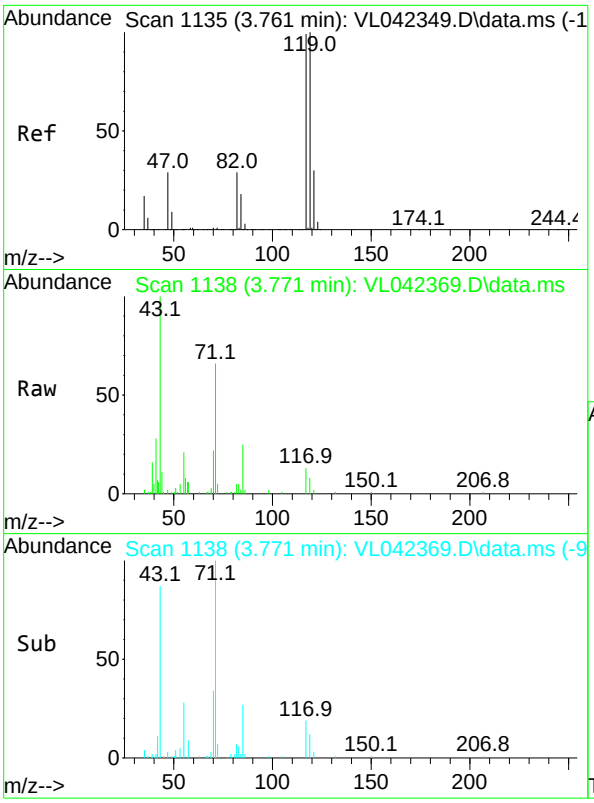


#34
2-Butanone
Concen: 1.203 ppbv
RT: 2.560 min Scan# 764
Delta R.T. 0.003 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

Tgt Ion: 43 Resp: 31500

Ion	Ratio	Lower	Upper
43	100		
72	23.1	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: VL042369.D
Acq: 17 Apr 2025 21:45

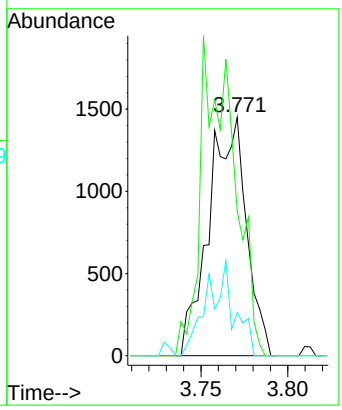
Tgt Ion:117 Resp: 219

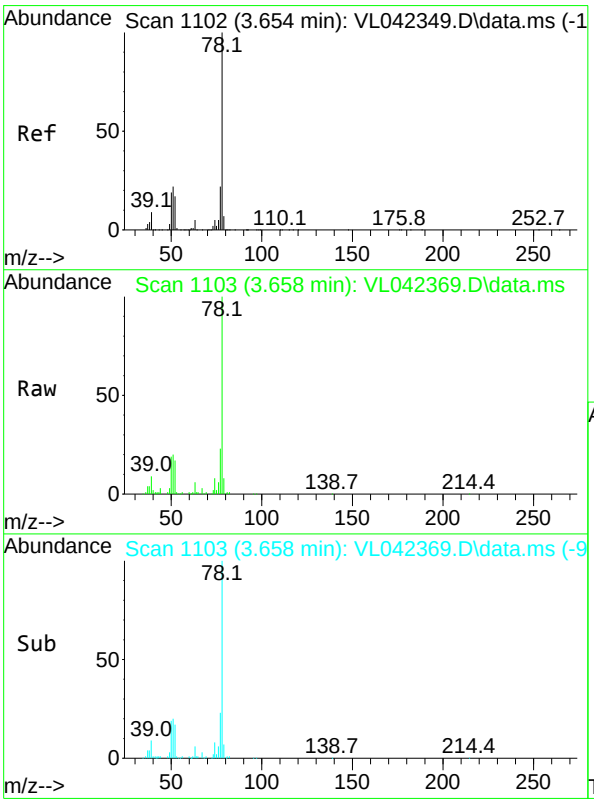
Ion	Ratio	Lower	Upper
117	100		
119	60.4	80.5	120.7#
121	18.1	24.2	36.2#

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025

Manual Integrations
APPROVED

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

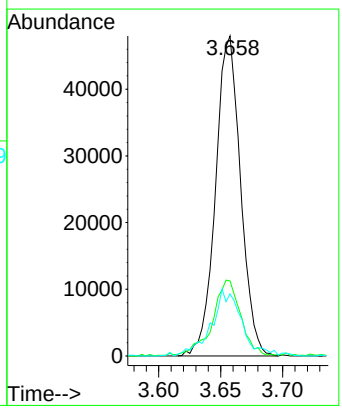


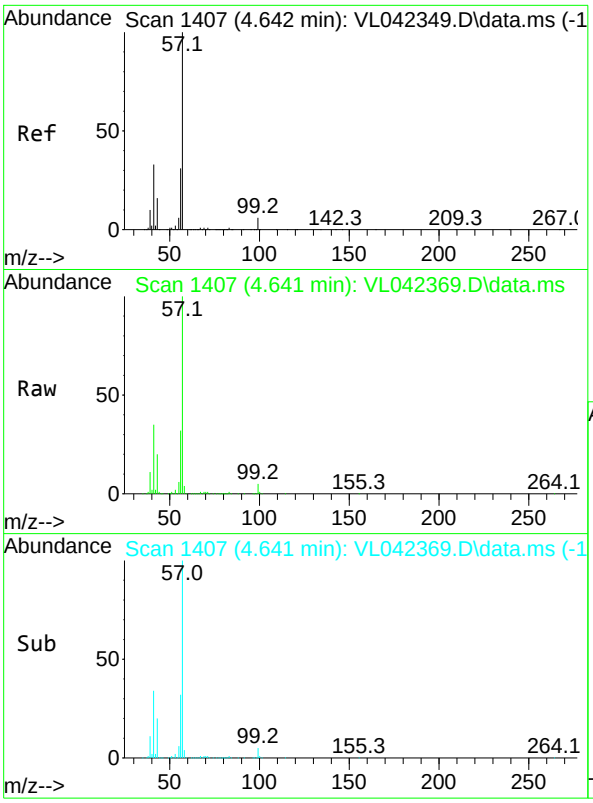


#36
Benzene
Concen: 1.894 ppbv
RT: 3.658 min Scan# 1103
Delta R.T. 0.003 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

Tgt Ion: 78 Resp: 67666

Ion	Ratio	Lower	Upper
78	100		
77	23.1	17.4	26.0
50	19.1	15.5	23.3

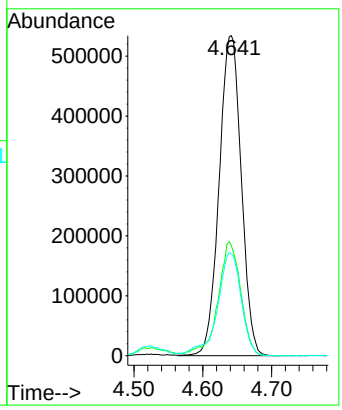




#44
2,2,4-Trimethylpentane
Concen: 19.331 ppbv
RT: 4.641 min Scan# 14
Delta R.T. -0.000 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

Tgt Ion: 57 Resp: 119253

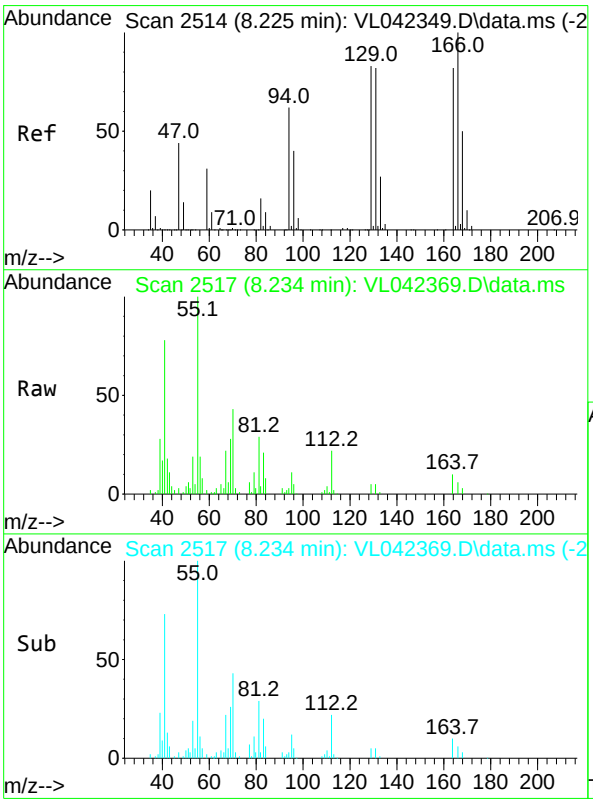
Ion	Ratio	Lower	Upper
57	100		
41	36.7	27.2	40.8
56	34.7	25.7	38.5



Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025

Manual Integrations
APPROVED

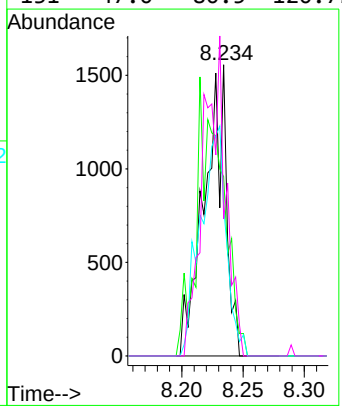
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

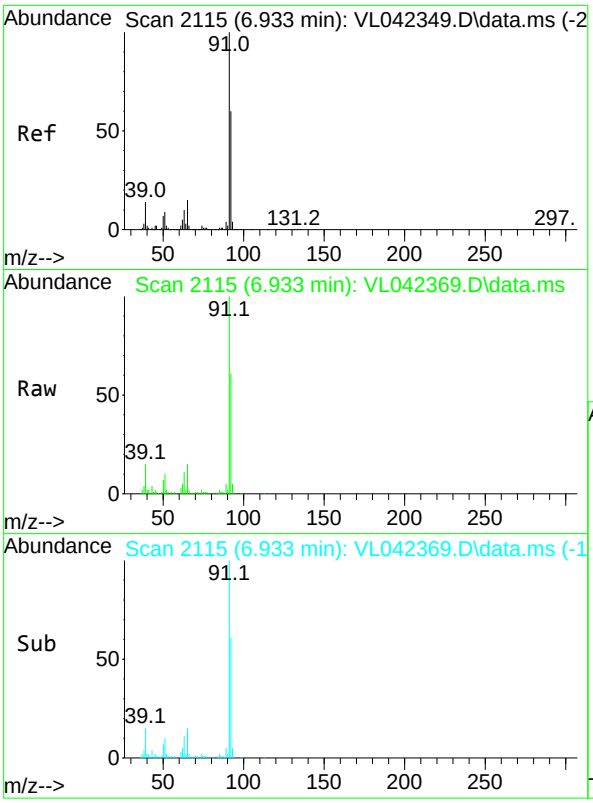


#52
Tetrachloroethene
Concen: 0.140 ppbv m
RT: 8.234 min Scan# 2517
Delta R.T. 0.010 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

Tgt Ion:164 Resp: 1929

Ion	Ratio	Lower	Upper
164	100		
166	61.6	98.2	147.2#
129	51.0	81.8	122.8#
131	47.0	80.5	120.7#

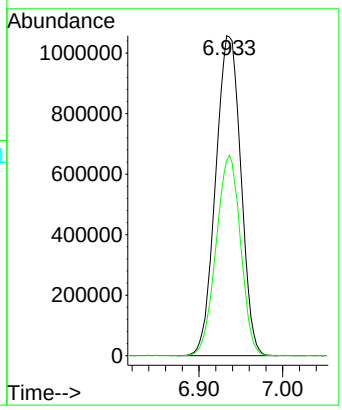




#53
Toluene
Concen: 51.432 ppbv
RT: 6.933 min Scan# 21
Delta R.T. -0.000 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

Tgt Ion: 91 Resp: 220450

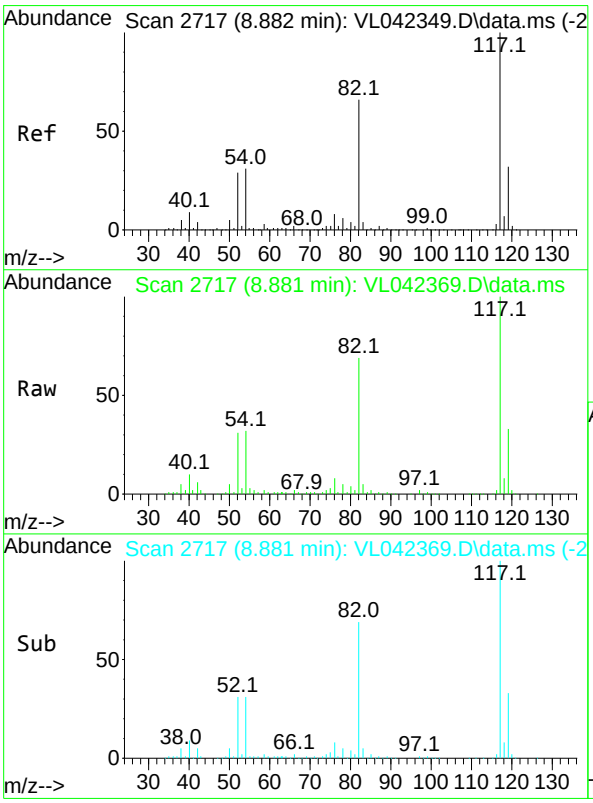
Ion	Ratio	Lower	Upper
91	100		
92	60.8	48.2	72.4



Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025

Manual Integrations
APPROVED

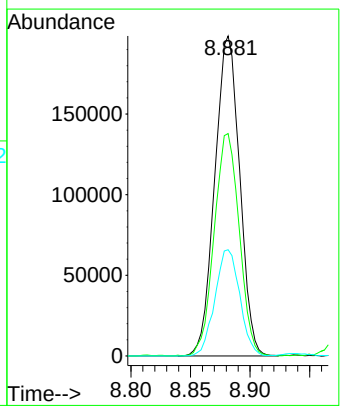
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

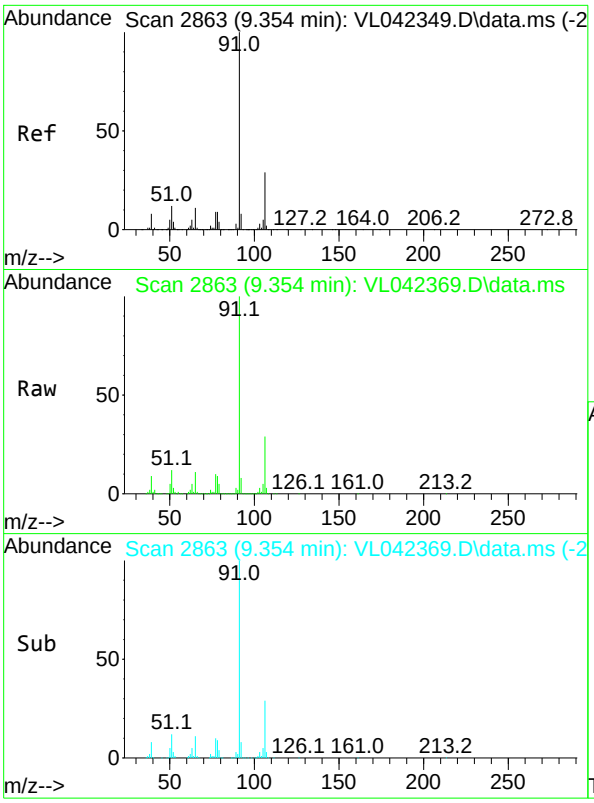


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.881 min Scan# 2717
Delta R.T. -0.000 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

Tgt Ion:117 Resp: 288378

Ion	Ratio	Lower	Upper
117	100		
82	70.2	57.8	86.6
119	33.2	25.2	37.8

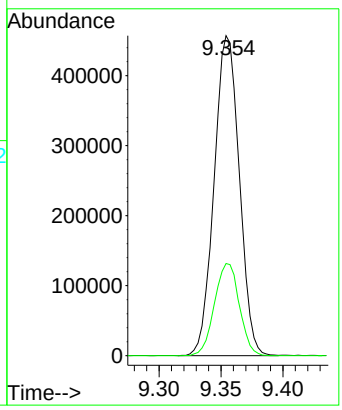




#58
Ethyl Benzene
Concen: 11.323 ppbv
RT: 9.354 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

Tgt Ion: 91 Resp: 64693

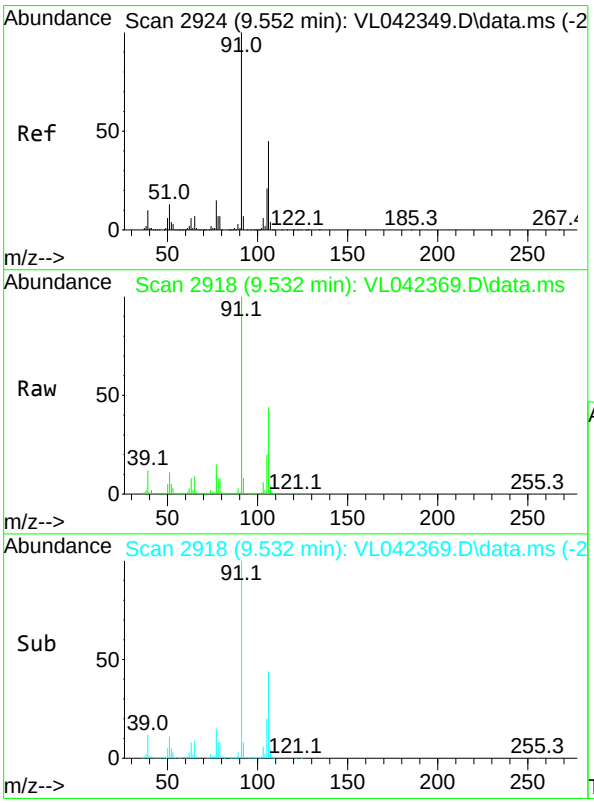
Ion	Ratio	Lower	Upper
91	100		
106	28.8	23.0	34.4



Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025

Manual Integrations
APPROVED

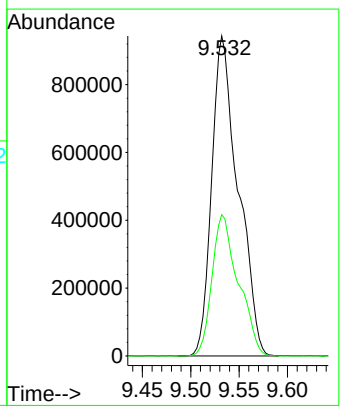
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

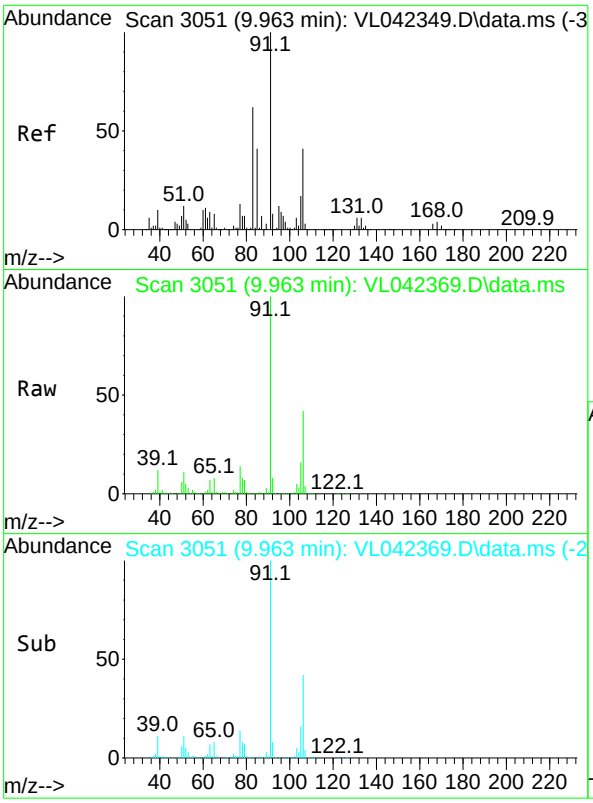


#59
m/p-Xylene
Concen: 38.886 ppbv
RT: 9.532 min Scan# 2918
Delta R.T. -0.019 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

Tgt Ion: 91 Resp: 1789840

Ion	Ratio	Lower	Upper
91	100		
106	44.0	35.4	53.2

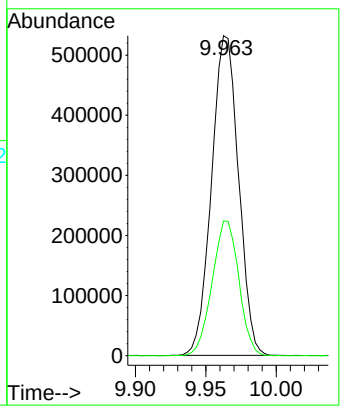




#60
o-Xylene
Concen: 15.308 ppbv
RT: 9.963 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

Tgt Ion: 91 Resp: 70951

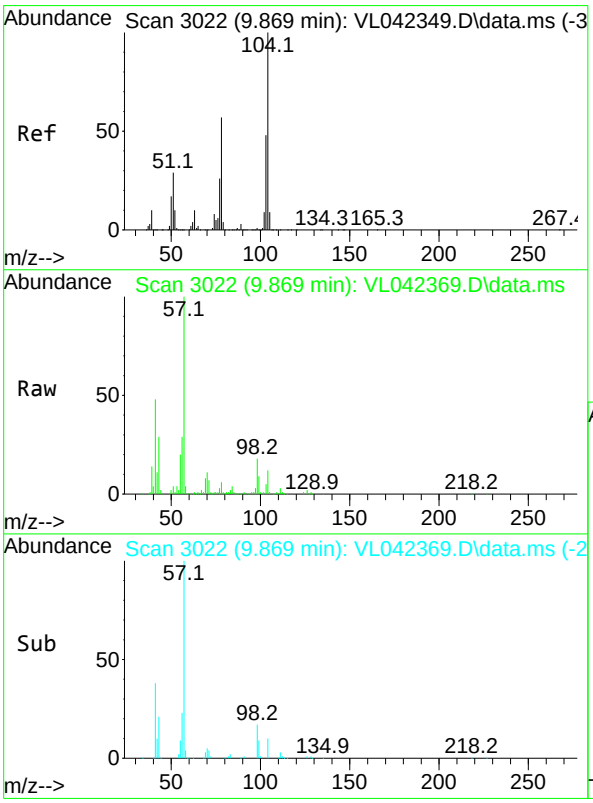
Ion	Ratio	Lower	Upper
91	100		
106	41.7	21.1	63.4



Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025

Manual Integrations
APPROVED

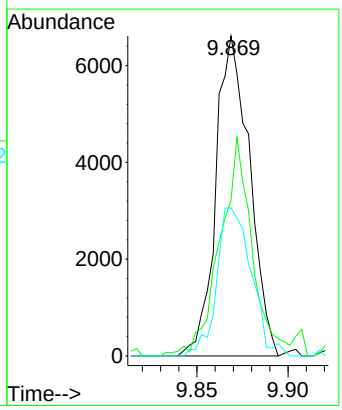
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

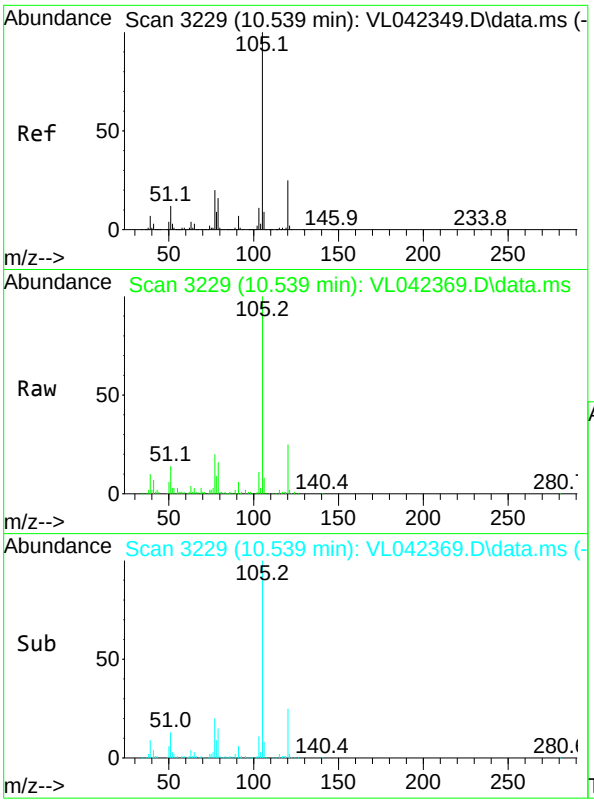


#61
Styrene
Concen: 0.384 ppbv
RT: 9.869 min Scan# 3022
Delta R.T. -0.000 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

Tgt Ion:104 Resp: 8504

Ion	Ratio	Lower	Upper
104	100		
78	67.3	44.6	66.8#
103	47.5	37.4	56.0

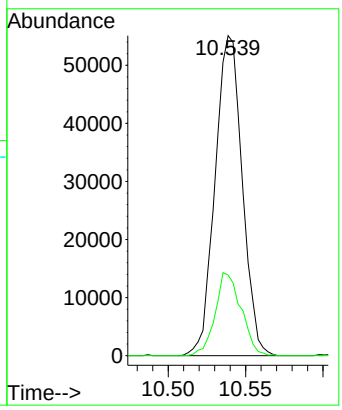




#62
Isopropylbenzene
Concen: 0.989 ppbv
RT: 10.539 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

Tgt Ion:105 Resp: 6728

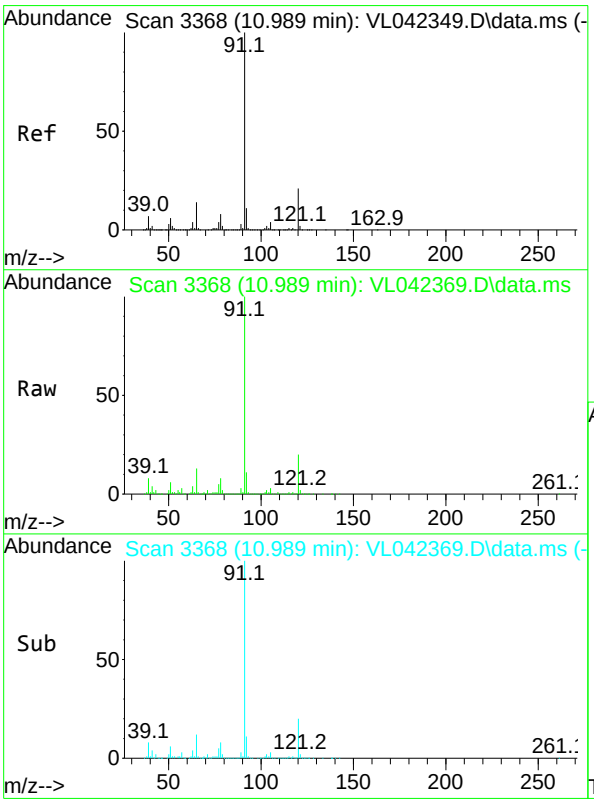
Ion	Ratio	Lower	Upper
105	100		
120	24.8	19.8	29.8



Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025

Manual Integrations
APPROVED

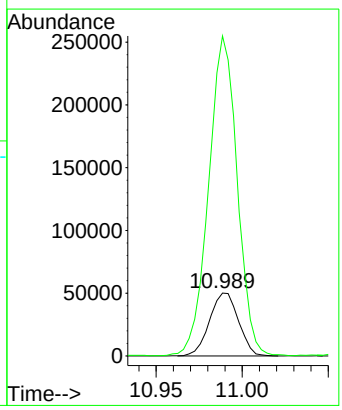
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

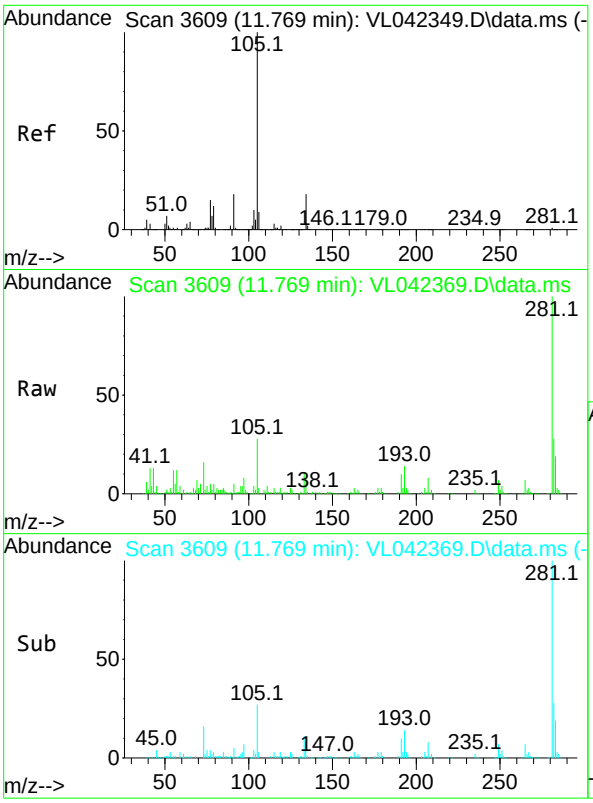


#64
n-propylbenzene
Concen: 3.428 ppbv
RT: 10.989 min Scan# 3368
Delta R.T. -0.000 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

Tgt Ion:120 Resp: 58634

Ion	Ratio	Lower	Upper
120	100		
91	503.2	392.4	588.6

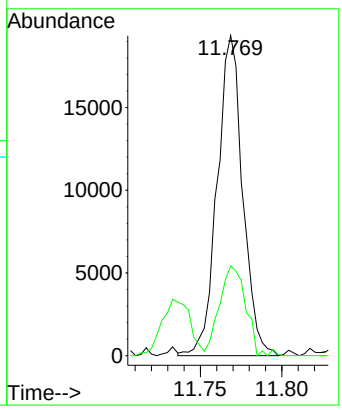




#67
sec-Butylbenzene
Concen: 0.241 ppbv
RT: 11.769 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

Tgt Ion:105 Resp: 2099

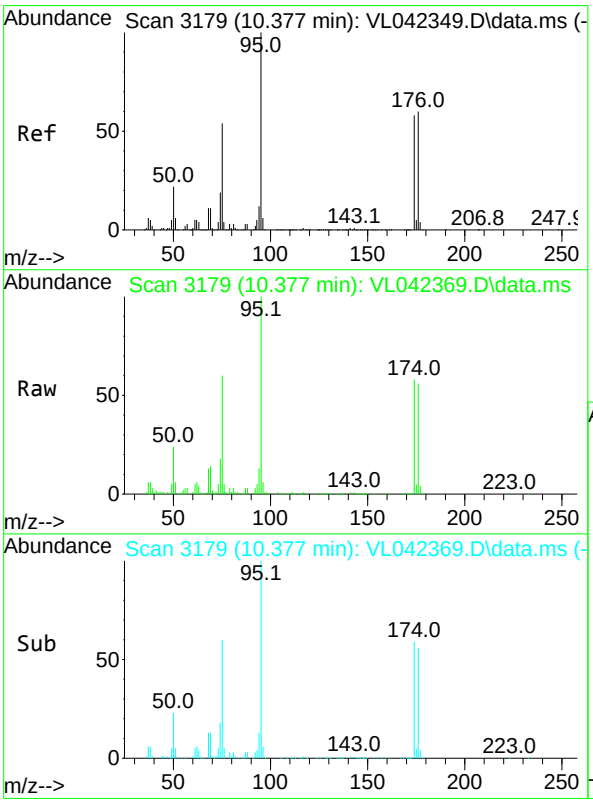
Ion	Ratio	Lower	Upper
105	100		
134	28.2	14.6	21.8



Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025

Manual Integrations
APPROVED

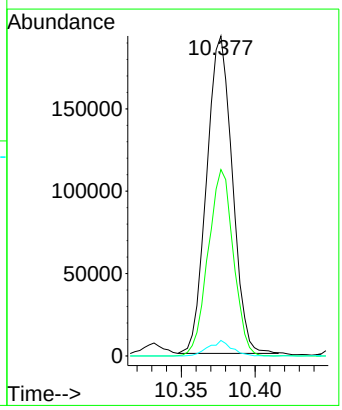
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

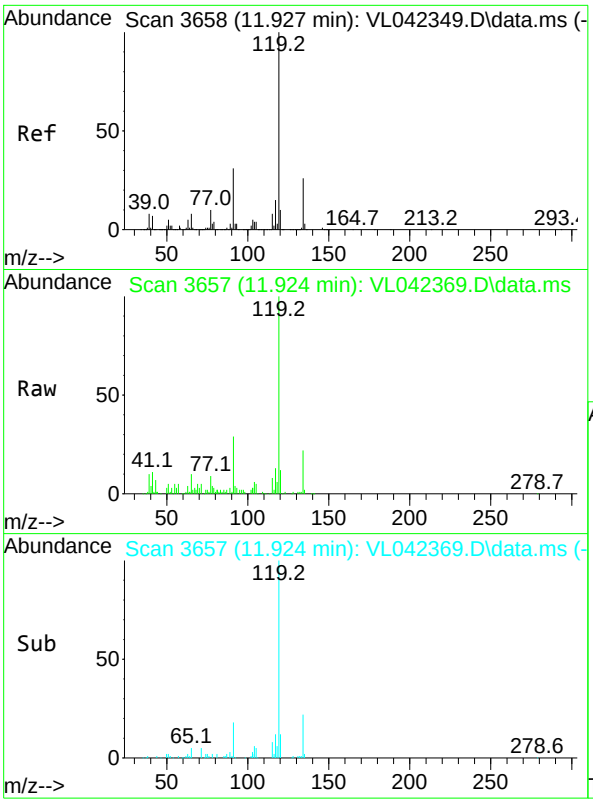


#68
1-Bromo-4-Fluorobenzene
Concen: 9.845 ppbv
RT: 10.377 min Scan# 3179
Delta R.T. -0.000 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

Tgt Ion: 95 Resp: 233305

Ion	Ratio	Lower	Upper
95	100		
174	57.7	48.5	72.7
175	4.4	3.7	5.5

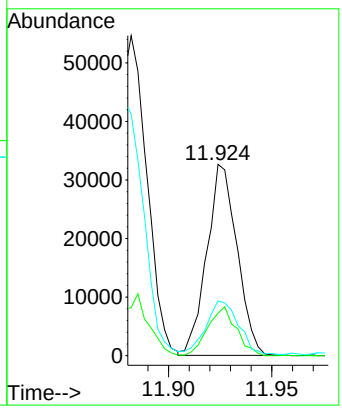




#69
p-Isopropyltoluene
Concen: 0.440 ppbv
RT: 11.924 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

Tgt Ion:119 Resp: 3327

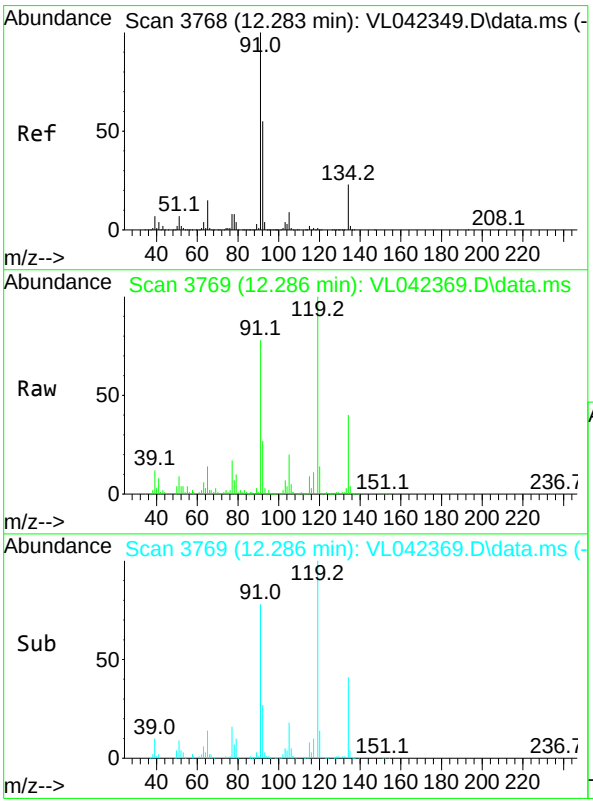
Ion	Ratio	Lower	Upper
119	100		
134	24.2	20.0	30.0
91	29.1	24.4	36.6



Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025

Manual Integrations
APPROVED

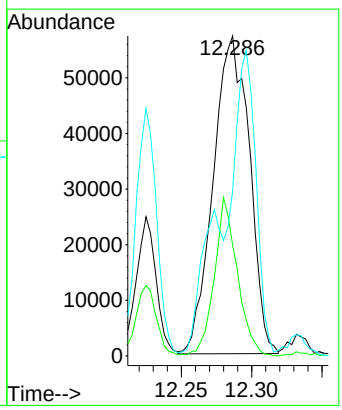
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

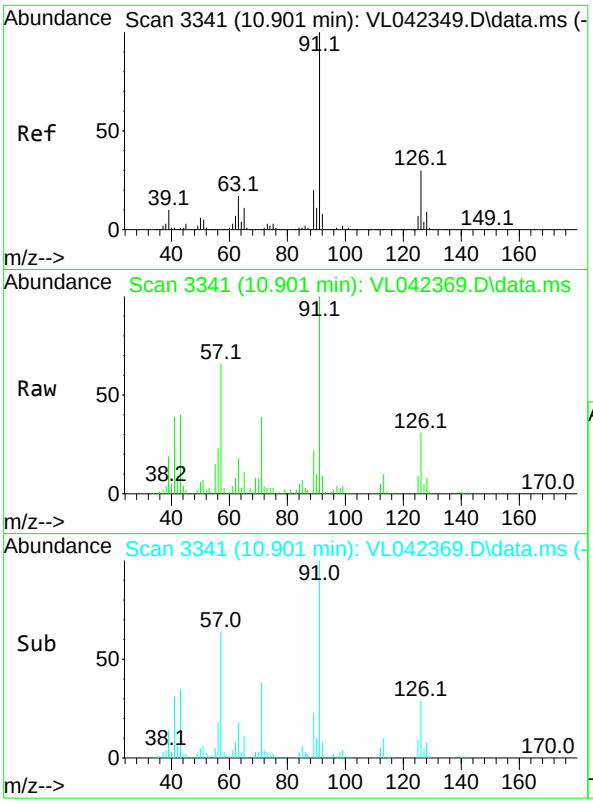


#70
n-Butylbenzene
Concen: 1.298 ppbv
RT: 12.286 min Scan# 3769
Delta R.T. 0.003 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

Tgt Ion: 91 Resp: 102145

Ion	Ratio	Lower	Upper
91	100		
92	31.6	44.2	66.4#
134	91.7	18.2	27.4#





#71
2-Chlorotoluene
Concen: 1.015 ppbv
RT: 10.901 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

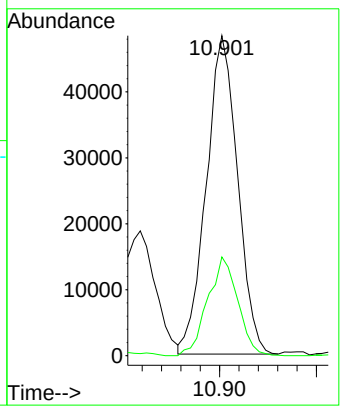
Tgt Ion: 91 Resp: 5416

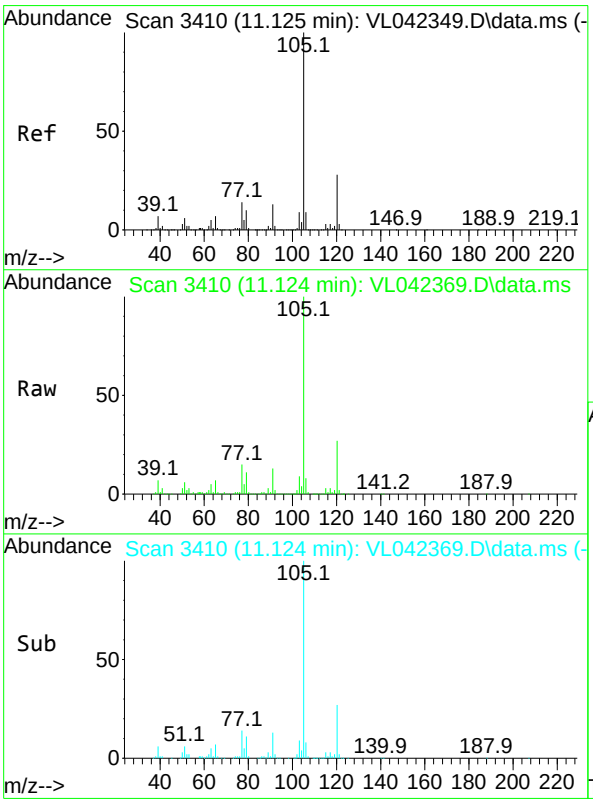
Ion	Ratio	Lower	Upper
91	100		
126	29.8	11.4	45.4

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025

Manual Integrations
APPROVED

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

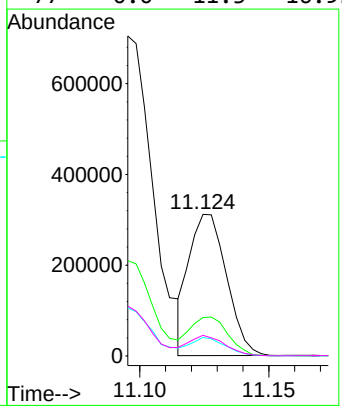


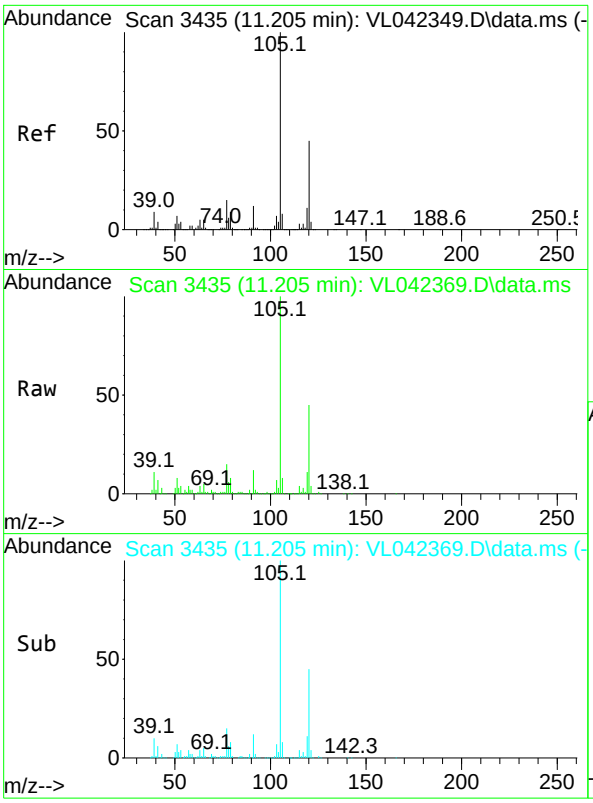


#72
4-Ethyltoluene
Concen: 5.540 ppbv
RT: 11.124 min Scan# 3410
Delta R.T. -0.000 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

Tgt Ion:105 Resp: 313941

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#

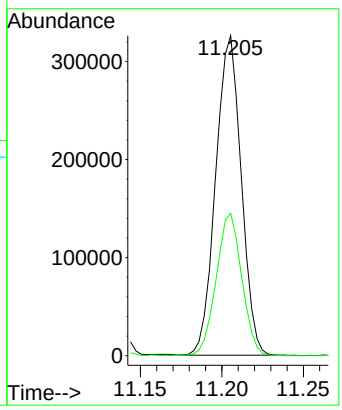




#73
1,3,5-Trimethylbenzene
Concen: 7.091 ppbv
RT: 11.205 min Scan# 34
Delta R.T. -0.000 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

Tgt Ion:105 Resp: 35473

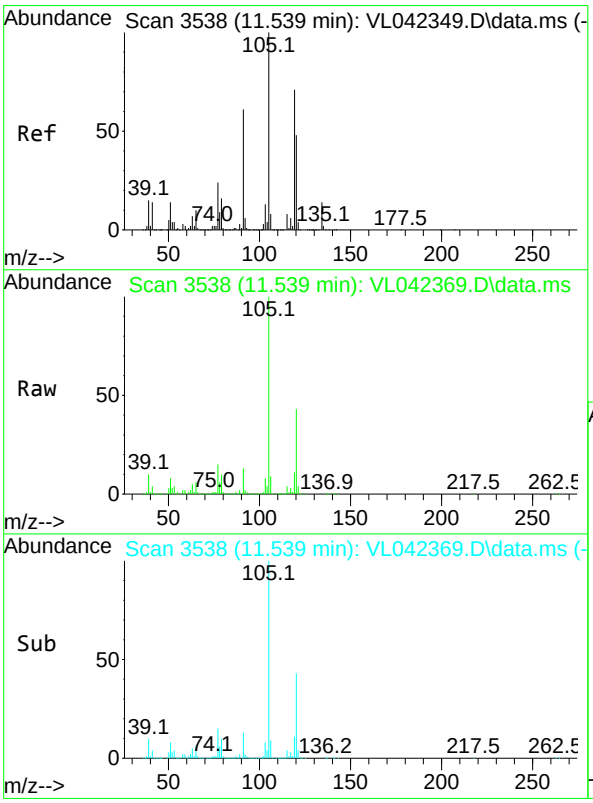
Ion	Ratio	Lower	Upper
105	100		
120	44.5	35.6	53.4



Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025

Manual Integrations
APPROVED

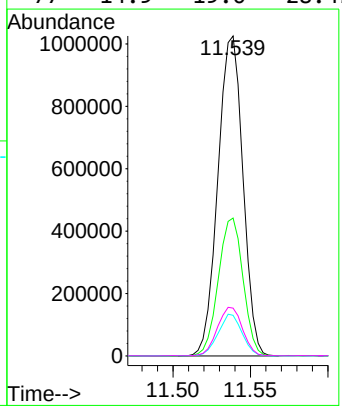
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

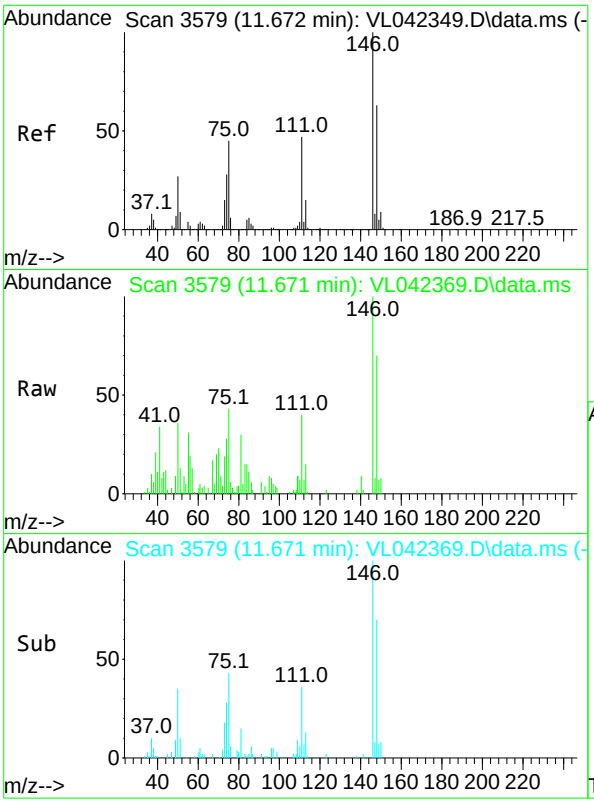


#74
1,2,4-Trimethylbenzene
Concen: 19.707 ppbv
RT: 11.539 min Scan# 3538
Delta R.T. -0.000 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

Tgt Ion:105 Resp: 1151476

Ion	Ratio	Lower	Upper
105	100		
120	43.1	38.1	57.1
91	12.7	48.8	73.2#
77	14.9	19.0	28.4#

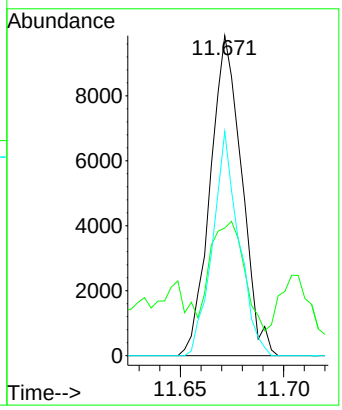




#76
1,4-Dichlorobenzene
Concen: 0.342 ppbv
RT: 11.671 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

Tgt Ion:146 Resp: 1043

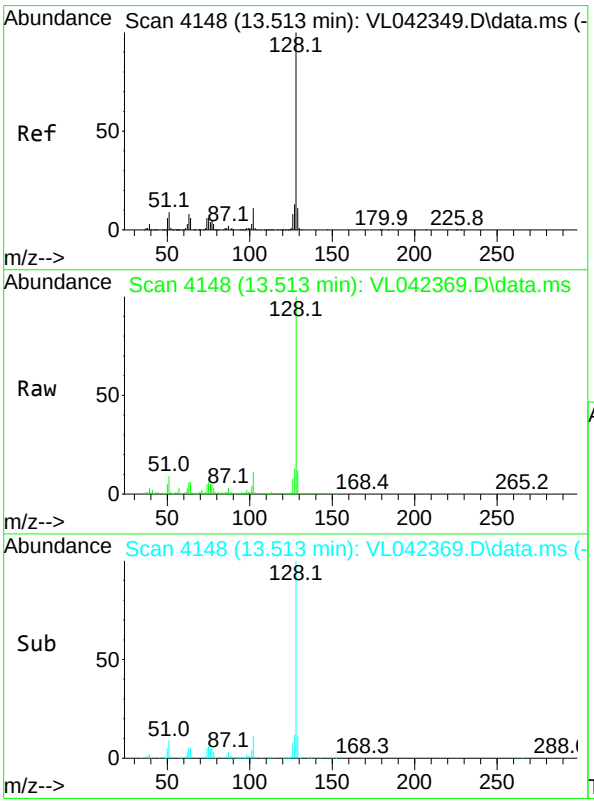
Ion	Ratio	Lower	Upper
146	100		
111	120.7	24.2	72.6
148	58.5	32.1	96.5



Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025

Manual Integrations
APPROVED

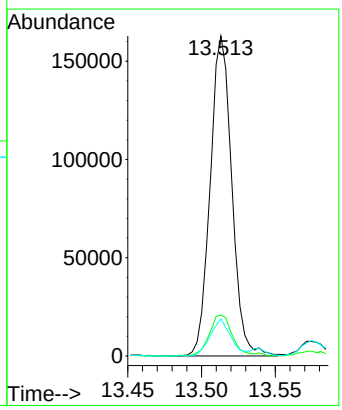
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

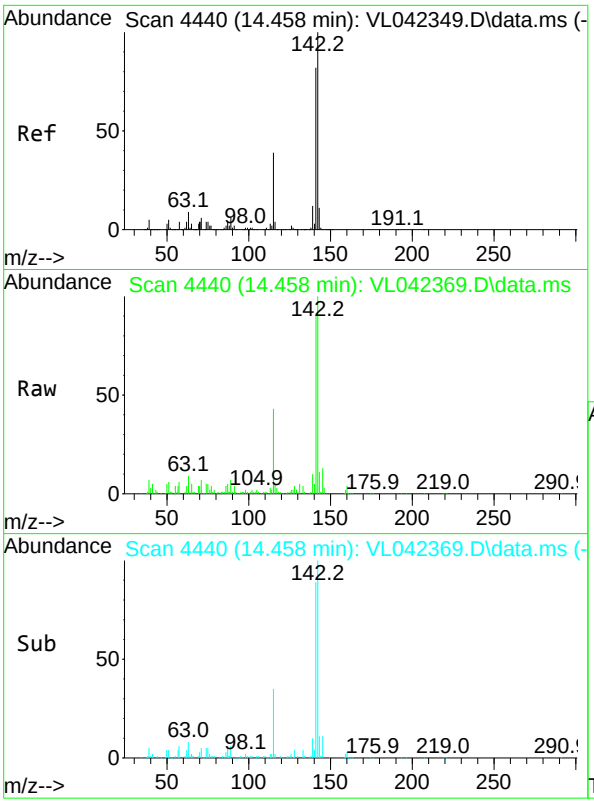


#79
Naphthalene
Concen: 2.380 ppbv
RT: 13.513 min Scan# 4148
Delta R.T. -0.000 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

Tgt Ion:128 Resp: 166277

Ion	Ratio	Lower	Upper
128	100		
127	12.6	10.6	15.8
129	11.5	8.6	12.8

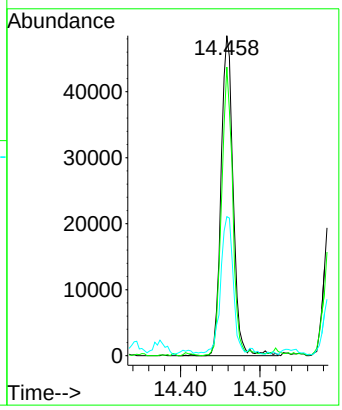




#80
Naphthalene,2-methyl-
Concen: 1.280 ppbv
RT: 14.458 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

Tgt Ion:142 Resp: 5098

Ion	Ratio	Lower	Upper
142	100		
141	83.1	66.8	100.2
115	47.9	33.4	50.2



Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025

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 : VL042369.D
Acq On : 17 Apr 2025 21:45
Operator : SY/MD
Sample : Q1726-04
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025

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: VL042369.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	4244153	4915829	68.83%	5.938%
2	1.466	423	426	429	rBV	225155	111689	1.56%	0.135%
3	1.489	429	433	435	rBV	285615	139514	1.95%	0.169%
4	1.525	440	444	450	rVV	1000132	512986	7.18%	0.620%
5	1.557	450	454	460	rVB	725111	404734	5.67%	0.489%
6	1.622	470	474	478	rVB	704903	382214	5.35%	0.462%
7	1.722	500	505	512	rVB	1069296	672553	9.42%	0.812%
8	1.835	535	540	548	rVB	7275099	6270999	87.81%	7.575%
9	1.887	548	556	560	rBV	711323	497825	6.97%	0.601%
10	2.059	598	609	614	rBV3	203730	198582	2.78%	0.240%
11	2.272	670	675	684	rVB	224226	183199	2.57%	0.221%
12	2.473	731	737	744	rVB	251207	248296	3.48%	0.300%
13	2.625	776	784	791	rVB	197366	213637	2.99%	0.258%
14	2.787	827	834	840	rBV2	428852	442911	6.20%	0.535%
15	2.826	840	846	858	rVB	435066	513733	7.19%	0.621%
16	3.111	927	934	946	rVB2	55911	73932	1.04%	0.089%
17	3.227	963	970	979	rVV	233958	301673	4.22%	0.364%
18	3.282	979	987	998	rVB2	165554	234997	3.29%	0.284%
19	3.651	1098	1101	1108	rVB2	82973	99427	1.39%	0.120%
20	3.687	1108	1112	1124	rVB	107733	155661	2.18%	0.188%
21	3.771	1124	1138	1151	rVB5	41147	90789	1.27%	0.110%
22	3.855	1151	1164	1176	rBV3	122364	210152	2.94%	0.254%
23	3.959	1182	1196	1207	rBV	564442	905161	12.67%	1.093%
24	4.052	1207	1225	1232	rVV	504056	941843	13.19%	1.138%
25	4.095	1232	1238	1250	rVB2	217371	383122	5.36%	0.463%
26	4.269	1278	1292	1306	rVB3	545792	1033107	14.47%	1.248%
27	4.441	1332	1345	1357	rBV3	110905	215748	3.02%	0.261%
28	4.525	1357	1371	1385	rVV4	106487	325261	4.55%	0.393%
29	4.638	1385	1406	1424	rVB	1243989	2952769	41.35%	3.567%
30	4.923	1479	1494	1499	rBV7	70394	148431	2.08%	0.179%
31	4.978	1499	1511	1525	rVV3	481233	1080254	15.13%	1.305%
32	5.043	1525	1531	1552	rVB3	67527	178564	2.50%	0.216%
33	5.302	1595	1611	1612	rBV4	68340	104124	1.46%	0.126%
34	5.308	1612	1613	1627	rVB4	68687	76341	1.07%	0.092%
35	5.661	1699	1722	1743	rVB4	291458	856162	11.99%	1.034%
36	5.784	1746	1760	1774	rBV7	46069	133995	1.88%	0.162%

LSC Area Percent Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042369.D
Acq On : 17 Apr 2025 21:45
Operator : SY/MD
Sample : Q1726-04
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025

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	6.130	1849	1867	1876	rBV3	76316	196070	2.75%	0.237%
38	6.198	1876	1888	1901	rVV5	197181	631040	8.84%	0.762%
39	6.266	1901	1909	1928	rVB5	210378	545256	7.63%	0.659%
40	6.467	1956	1971	1984	rBV4	65513	163096	2.28%	0.197%
41	6.726	2031	2051	2063	rBV8	48575	147082	2.06%	0.178%
42	6.826	2065	2082	2098	rVV3	653681	1613940	22.60%	1.950%
43	6.936	2098	2116	2151	rVB2	3029407	7141594	100.00%	8.627%
44	7.185	2174	2193	2206	rBV2	250629	555086	7.77%	0.671%
45	7.276	2210	2221	2230	rVB8	53517	117223	1.64%	0.142%
46	7.376	2235	2252	2260	rBV2	370728	722729	10.12%	0.873%
47	7.425	2266	2267	2287	rVB4	126397	201439	2.82%	0.243%
48	7.532	2287	2300	2308	rVV6	35125	80217	1.12%	0.097%
49	7.600	2308	2321	2338	rVV5	380010	1130627	15.83%	1.366%
50	7.681	2338	2346	2358	rVB6	117912	248697	3.48%	0.300%
51	7.894	2399	2412	2432	rBV3	346423	816341	11.43%	0.986%
52	7.978	2432	2438	2443	rVV5	74761	124177	1.74%	0.150%
53	8.008	2443	2447	2459	rVB7	62356	120696	1.69%	0.146%
54	8.131	2475	2485	2503	rVB5	154589	330598	4.63%	0.399%
55	8.231	2503	2516	2523	rVV5	103725	200174	2.80%	0.242%
56	8.302	2523	2538	2556	rVB4	590503	1191798	16.69%	1.440%
57	8.438	2570	2580	2586	rBV2	80160	128217	1.80%	0.155%
58	8.470	2586	2590	2604	rVB7	61914	107390	1.50%	0.130%
59	8.691	2649	2658	2664	rBV3	71726	102222	1.43%	0.123%
60	8.878	2702	2716	2726	rBV	747686	1206739	16.90%	1.458%
61	8.937	2726	2734	2739	rVV3	90214	125418	1.76%	0.152%
62	8.982	2739	2748	2763	rVB5	217756	513831	7.19%	0.621%
63	9.063	2763	2773	2778	rBV7	53599	96365	1.35%	0.116%
64	9.098	2778	2784	2791	rVB3	81377	109020	1.53%	0.132%
65	9.144	2791	2798	2812	rBV	173709	267570	3.75%	0.323%
66	9.354	2853	2863	2877	rBV	1112097	1662379	23.28%	2.008%
67	9.416	2877	2882	2892	rVB4	79017	120142	1.68%	0.145%
68	9.532	2907	2918	2935	rVB	2750167	5285848	74.01%	6.385%
69	9.658	2949	2957	2964	rBV5	58840	88853	1.24%	0.107%
70	9.729	2967	2979	2991	rVB5	290104	631460	8.84%	0.763%
71	9.859	3003	3019	3027	rBV3	324926	512971	7.18%	0.620%
72	9.963	3037	3051	3062	rBV	1506120	2145003	30.04%	2.591%
73	10.008	3062	3065	3074	rVB4	76224	89778	1.26%	0.108%
74	10.079	3074	3087	3088	rBV6	80605	112666	1.58%	0.136%
75	10.102	3088	3094	3100	rVV2	156472	228504	3.20%	0.276%
76	10.137	3100	3105	3116	rVB6	81396	142043	1.99%	0.172%

LSC Area Percent Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042369.D
Acq On : 17 Apr 2025 21:45
Operator : SY/MD
Sample : Q1726-04
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025

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	10.351	3161	3171	3174	rBV	505761	608325	8.52%	0.735%
78	10.377	3174	3179	3189	rVV	905879	1125719	15.76%	1.360%
79	10.432	3189	3196	3202	rVB3	86216	110468	1.55%	0.133%
80	10.539	3220	3229	3236	rBV	159156	206344	2.89%	0.249%
81	10.768	3288	3300	3305	rBV3	100388	164963	2.31%	0.199%
82	10.856	3321	3327	3334	rVB2	219935	267843	3.75%	0.324%
83	10.901	3334	3341	3353	rVB2	272879	339619	4.76%	0.410%
84	10.989	3353	3368	3382	rVB	555349	796230	11.15%	0.962%
85	11.095	3392	3401	3407	rBV	1938826	2243821	31.42%	2.711%
86	11.124	3407	3410	3418	rVB	814978	821890	11.51%	0.993%
87	11.205	3418	3435	3443	rBV	1011248	1204174	16.86%	1.455%
88	11.257	3443	3451	3454	rBV3	82479	94815	1.33%	0.115%
89	11.280	3454	3458	3462	rVV2	144497	156141	2.19%	0.189%
90	11.312	3462	3468	3471	rVV2	283102	342761	4.80%	0.414%
91	11.338	3471	3476	3483	rVB	683382	742974	10.40%	0.898%
92	11.403	3490	3496	3501	rBV2	195886	219871	3.08%	0.266%
93	11.425	3501	3503	3511	rVB5	82730	85016	1.19%	0.103%
94	11.539	3528	3538	3550	rBV	3068653	3495948	48.95%	4.223%
95	11.591	3550	3554	3565	rVB4	65078	90540	1.27%	0.109%
96	11.756	3598	3605	3608	rBV	355275	419208	5.87%	0.506%
97	11.775	3608	3611	3624	rVB	409833	438742	6.14%	0.530%
98	11.879	3635	3643	3651	rVB2	855240	929750	13.02%	1.123%
99	11.927	3651	3658	3668	rBV4	91029	132425	1.85%	0.160%
100	12.018	3677	3686	3690	rBV	506992	558981	7.83%	0.675%
101	12.040	3690	3693	3701	rVV2	282791	289101	4.05%	0.349%
102	12.086	3701	3707	3717	rVB3	151199	207554	2.91%	0.251%
103	12.170	3726	3733	3736	rBV2	117762	123668	1.73%	0.149%
104	12.196	3736	3741	3745	rVV2	219375	228760	3.20%	0.276%
105	12.225	3745	3750	3757	rVV2	628187	647009	9.06%	0.782%
106	12.270	3757	3764	3767	rVV3	274736	324486	4.54%	0.392%
107	12.296	3767	3772	3778	rVB2	504266	547602	7.67%	0.662%
108	12.403	3793	3805	3811	rBV3	230127	300956	4.21%	0.364%
109	12.439	3811	3816	3822	rVV	215548	239508	3.35%	0.289%
110	12.477	3822	3828	3831	rVV3	121229	136664	1.91%	0.165%
111	12.507	3831	3837	3840	rVV2	460477	530191	7.42%	0.640%
112	12.523	3840	3842	3846	rVV	365006	334926	4.69%	0.405%
113	12.545	3846	3849	3855	rVB3	250525	227954	3.19%	0.275%
114	12.587	3855	3862	3875	rBV3	666400	899143	12.59%	1.086%
115	12.652	3875	3882	3894	rVB6	133260	217891	3.05%	0.263%
116	12.798	3921	3927	3932	rVV2	207351	201399	2.82%	0.243%

LSC Area Percent Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042369.D
Acq On : 17 Apr 2025 21:45
Operator : SY/MD
Sample : Q1726-04
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025

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	12.827	3932	3936	3942	rVB	272824	251040	3.52%	0.303%
118	12.918	3956	3964	3969	rBV	354418	358605	5.02%	0.433%
119	12.953	3969	3975	3984	rVB	467111	466350	6.53%	0.563%
120	13.102	4014	4021	4024	rBV3	115445	125699	1.76%	0.152%
121	13.128	4024	4029	4037	rVB2	345443	379356	5.31%	0.458%
122	13.167	4037	4041	4045	rBV2	113412	104409	1.46%	0.126%
123	13.225	4053	4059	4064	rBV	416634	446065	6.25%	0.539%
124	13.257	4064	4069	4075	rVV3	171200	220152	3.08%	0.266%
125	13.300	4075	4082	4086	rVV3	57408	71973	1.01%	0.087%
126	13.332	4086	4092	4101	rVV5	177151	257850	3.61%	0.311%
127	13.384	4101	4108	4116	rVV2	605242	704005	9.86%	0.850%
128	13.426	4116	4121	4124	rVV2	83214	79094	1.11%	0.096%
129	13.448	4124	4128	4134	rVB	102327	97468	1.36%	0.118%
130	13.513	4143	4148	4153	rBV	325590	302243	4.23%	0.365%
131	13.575	4161	4167	4170	rBV3	176466	183907	2.58%	0.222%
132	13.591	4170	4172	4178	rVV3	110527	96464	1.35%	0.117%
133	13.636	4178	4186	4189	rVV5	68862	96433	1.35%	0.116%
134	13.665	4189	4195	4205	rVV3	236463	330361	4.63%	0.399%
135	13.727	4207	4214	4219	rVV	188640	191605	2.68%	0.231%
136	13.753	4219	4222	4231	rVB5	65332	76891	1.08%	0.093%
137	13.979	4287	4292	4298	rVB4	75324	82994	1.16%	0.100%
138	14.112	4321	4333	4339	rVB5	94247	121197	1.70%	0.146%
139	14.228	4360	4369	4373	rBV5	65817	89501	1.25%	0.108%
140	14.458	4431	4440	4446	rBV	198921	215021	3.01%	0.260%
141	14.523	4454	4460	4473	rVB4	101242	123630	1.73%	0.149%
142	14.588	4473	4480	4485	rBV2	89682	91625	1.28%	0.111%

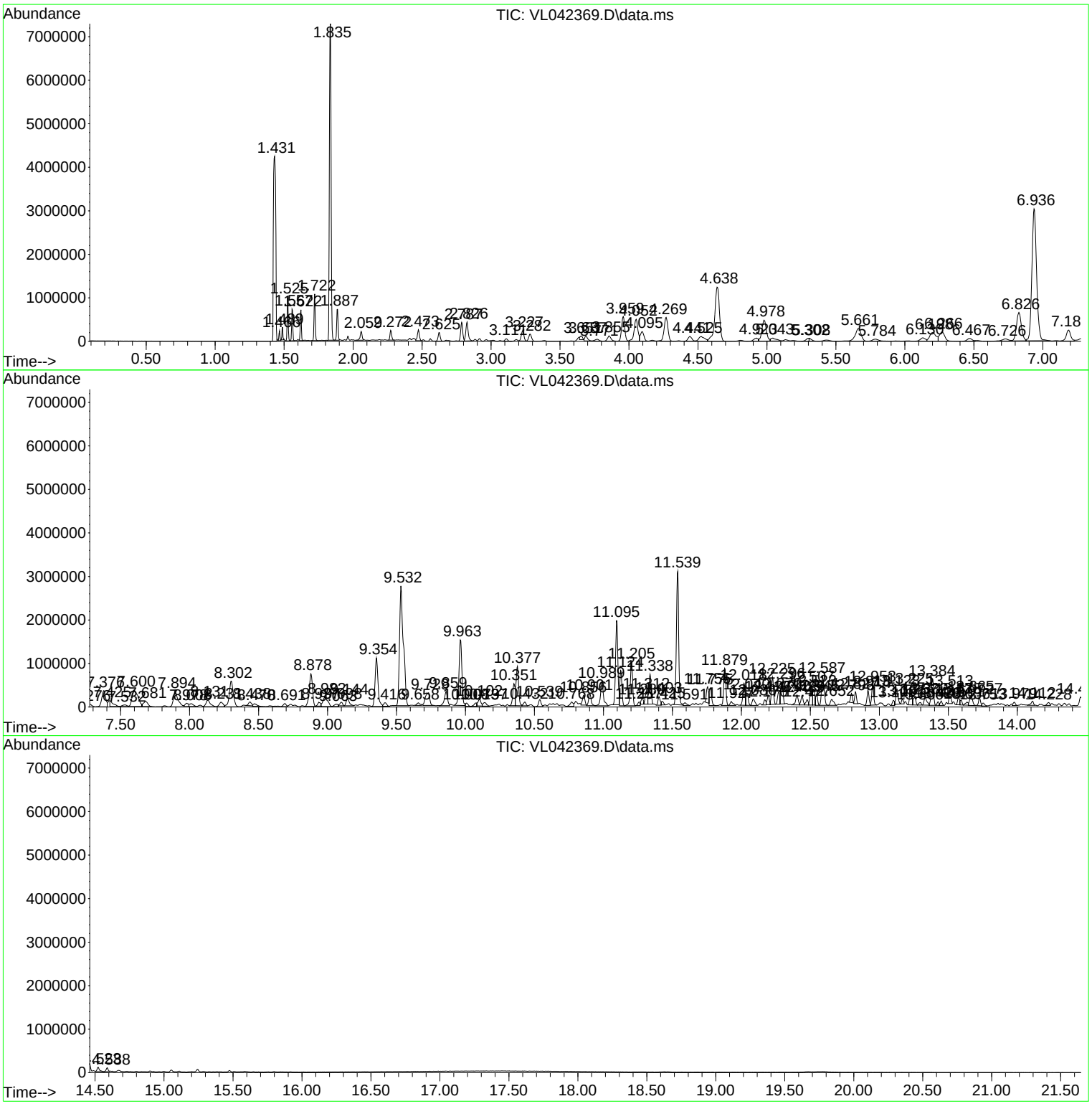
Sum of corrected areas: 82781831

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042369.D
Acq On : 17 Apr 2025 21:45
Operator : SY/MD
Sample : Q1726-04
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025

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 : VL042369.D
Acq On : 17 Apr 2025 21:45
Operator : SY/MD
Sample : Q1726-04
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025

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

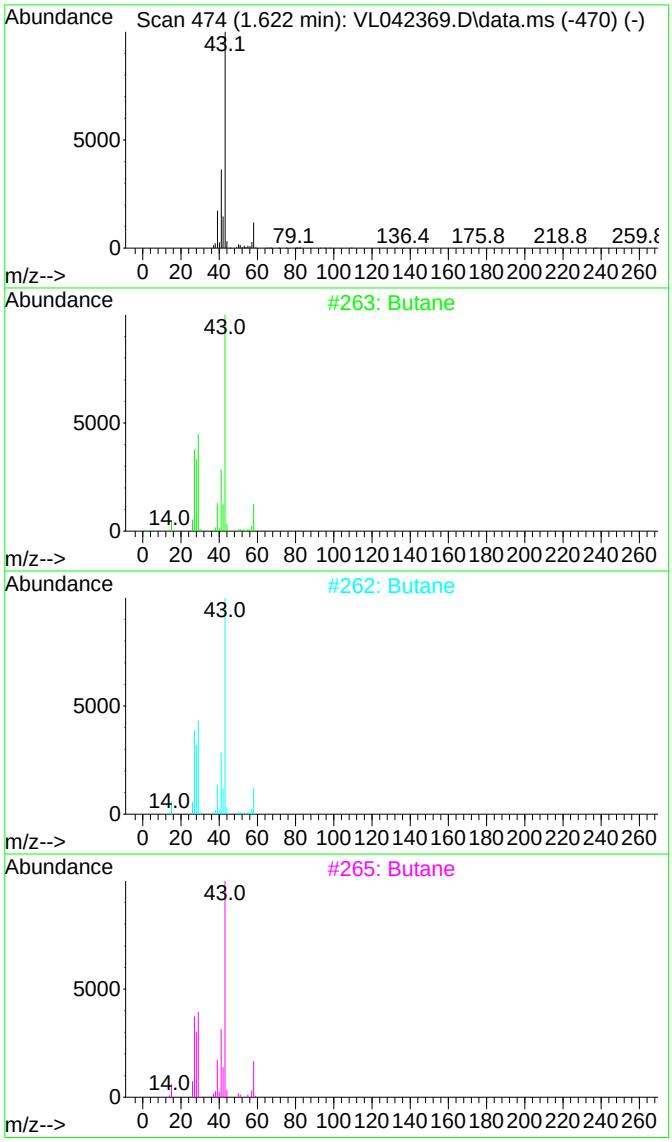
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

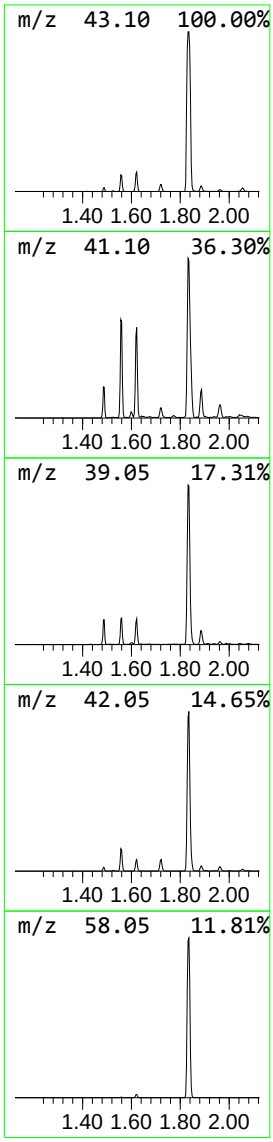
****

Peak Number 1 Butane Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.622	8.63 ppbv	382214	Bromochloromethane	2.787

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane	58	C4H10	000106-97-8	59
2	Butane	58	C4H10	000106-97-8	59
3	Butane	58	C4H10	000106-97-8	59
4	Butane	58	C4H10	000106-97-8	59
5	Isobutane	58	C4H10	000075-28-5	9





Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042369.D
Acq On : 17 Apr 2025 21:45
Operator : SY/MD
Sample : Q1726-04
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025

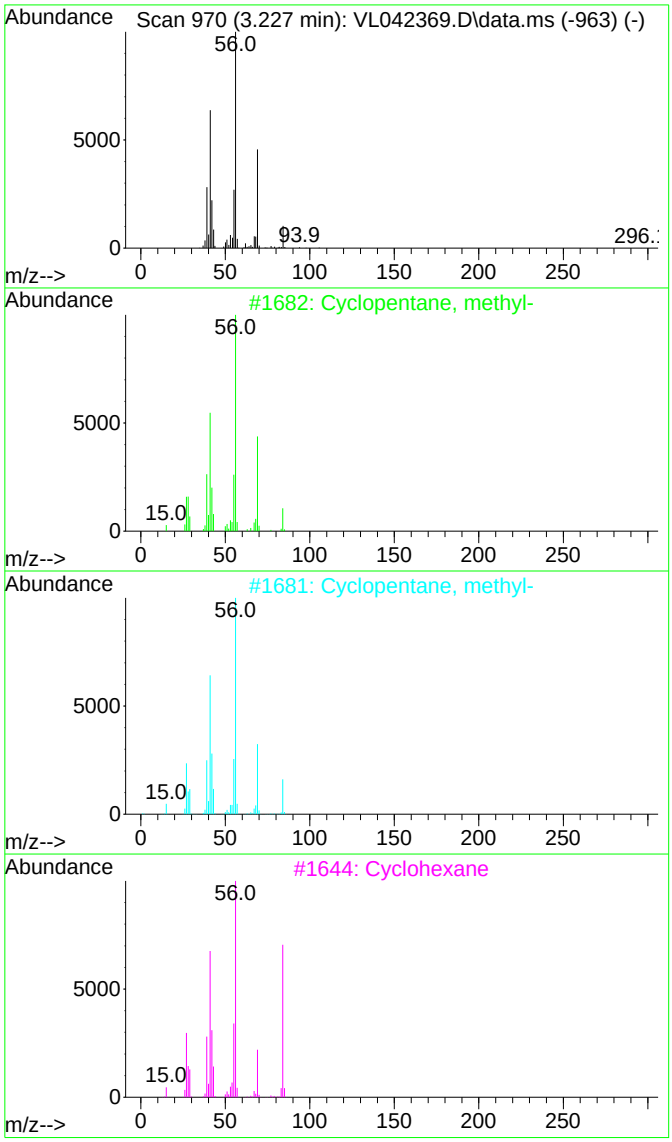
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

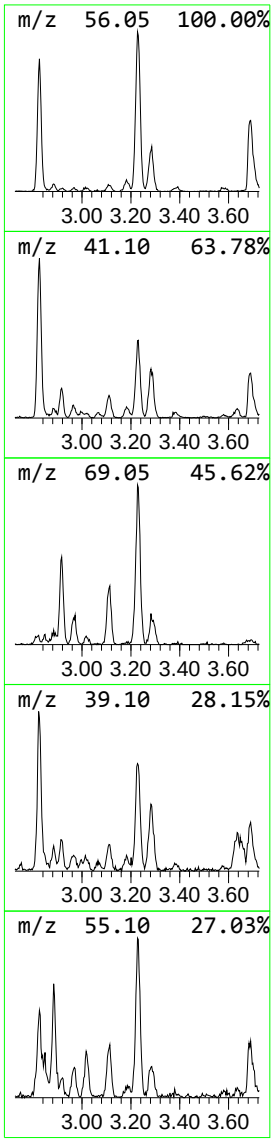
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 2 Cyclopentane, methyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.227	6.81 ppbv	301673	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	86
3	Cyclohexane	84	C6H12	000110-82-7	78
4	Cyclohexane	84	C6H12	000110-82-7	78
5	Cyclopentane, methyl-	84	C6H12	000096-37-7	72





Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042369.D
Acq On : 17 Apr 2025 21:45
Operator : SY/MD
Sample : Q1726-04
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025

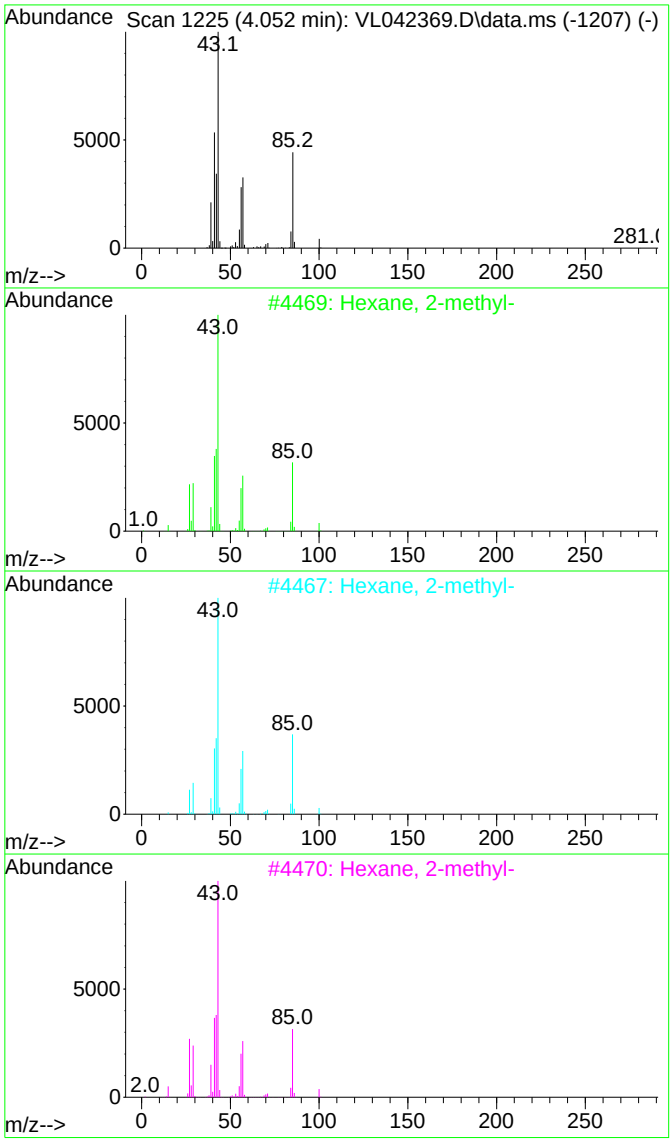
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

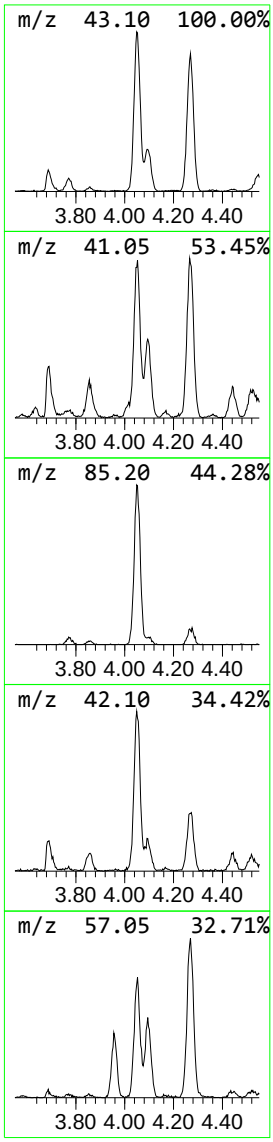
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.052	10.41 ppbv	941843	1,4-Difluorobenzene	3.959

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2-methyl-	100	C7H16	000591-76-4	93
2	Hexane, 2-methyl-	100	C7H16	000591-76-4	90
3	Hexane, 2-methyl-	100	C7H16	000591-76-4	90
4	Octane	114	C8H18	000111-65-9	59
5	Pentane, 2,4-dimethyl-	100	C7H16	000108-08-7	58





Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042369.D
Acq On : 17 Apr 2025 21:45
Operator : SY/MD
Sample : Q1726-04
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025

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

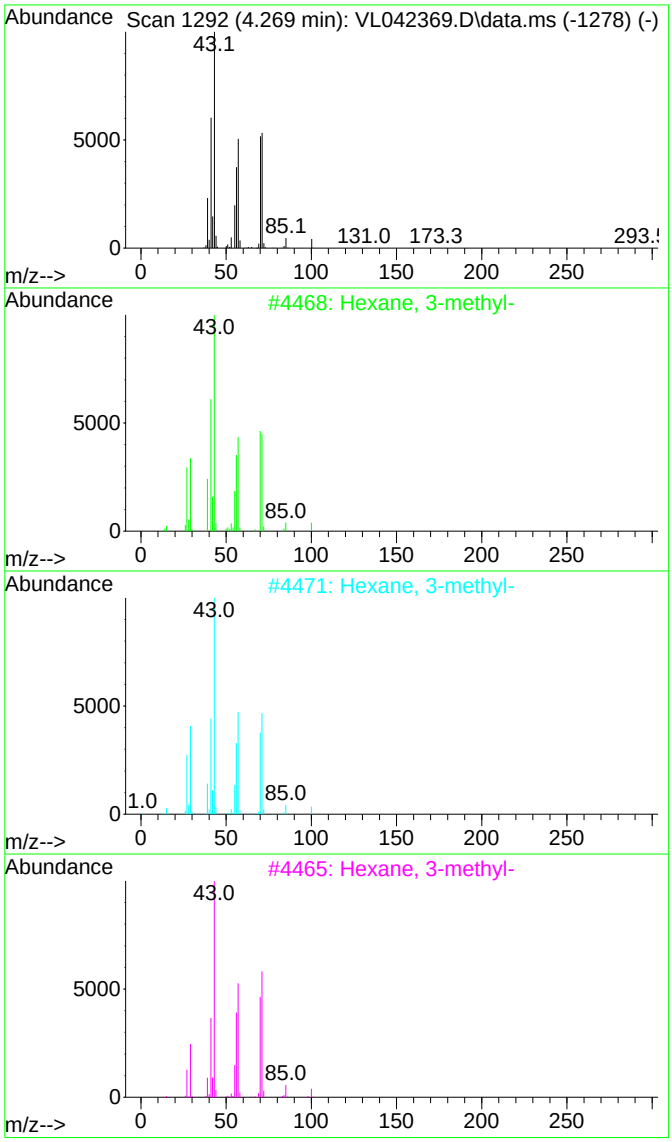
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

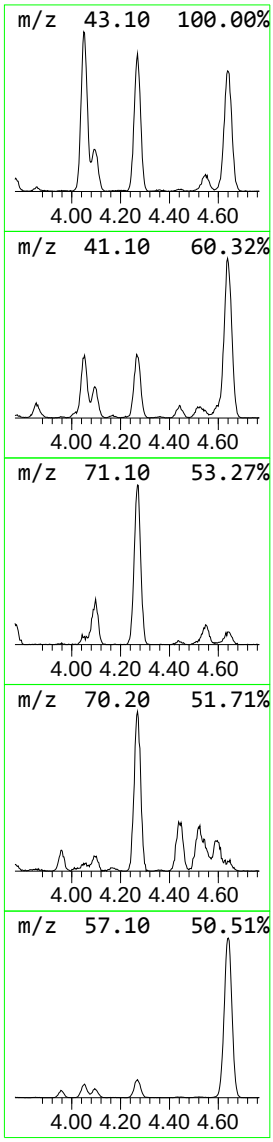
****

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.269	11.41 ppbv	1033110	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	Hexane, 3-methyl-	100	C7H16	000589-34-4	91
4	Heptane	100	C7H16	000142-82-5	64
5	Hexane, 2,3-dimethyl-	114	C8H18	000584-94-1	64





Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042369.D
Acq On : 17 Apr 2025 21:45
Operator : SY/MD
Sample : Q1726-04
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025

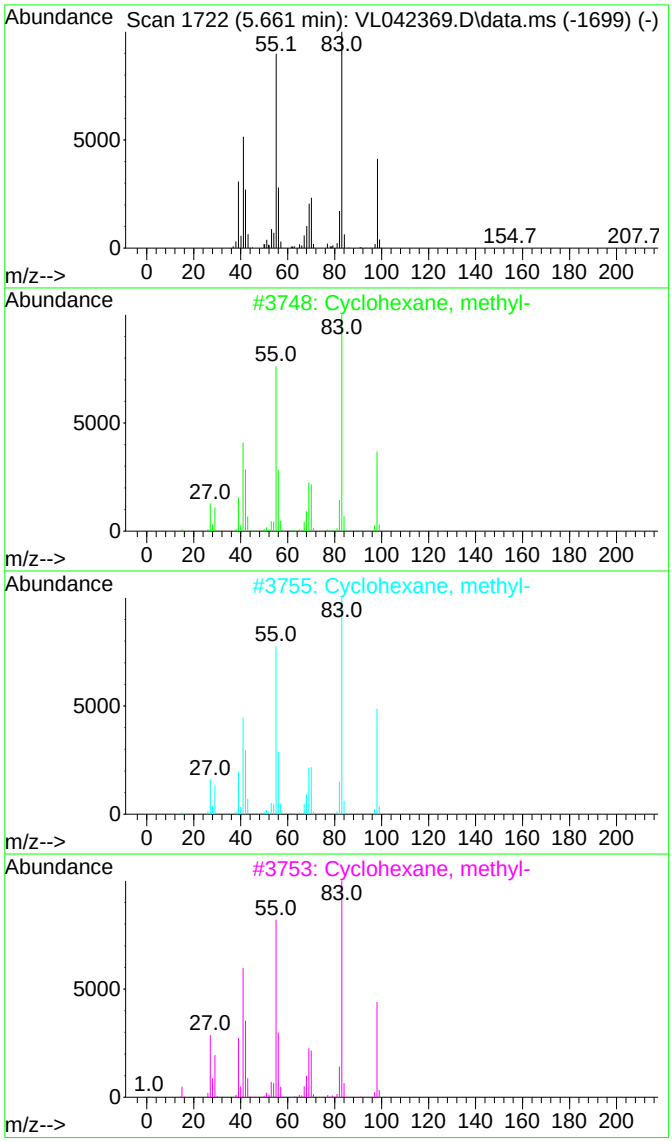
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

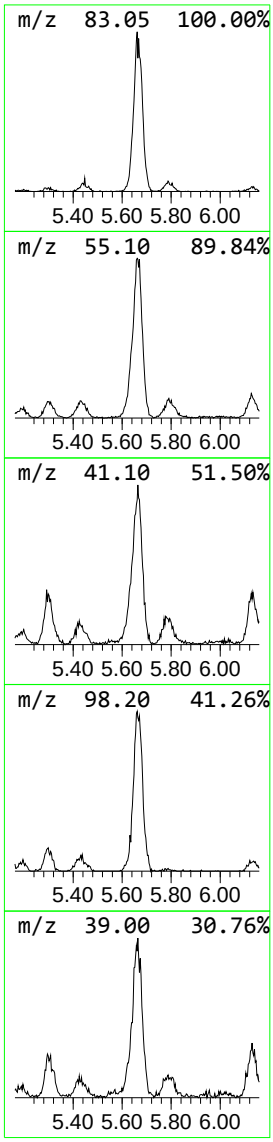
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 5 Cyclohexane, methyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.661	9.46 ppbv	856162	1,4-Difluorobenzene	3.959

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, methyl-	98	C7H14	000108-87-2	91
2	Cyclohexane, methyl-	98	C7H14	000108-87-2	91
3	Cyclohexane, methyl-	98	C7H14	000108-87-2	91
4	Cyclohexane, methyl-	98	C7H14	000108-87-2	70
5	Cyclohexane, methyl-	98	C7H14	000108-87-2	64





Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042369.D
Acq On : 17 Apr 2025 21:45
Operator : SY/MD
Sample : Q1726-04
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025

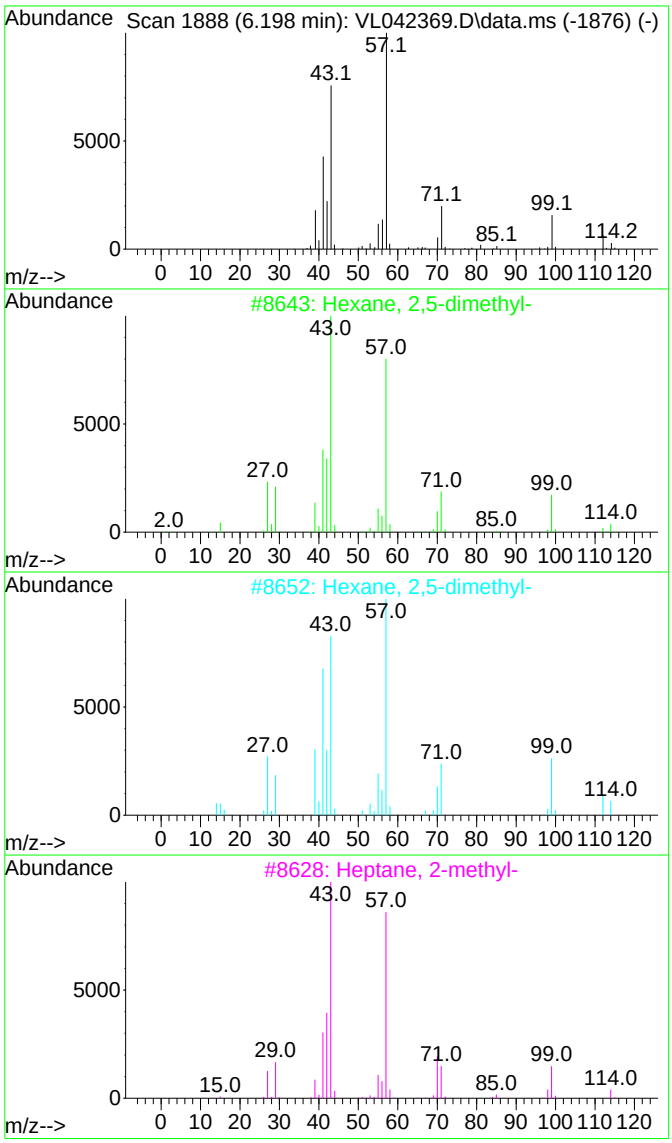
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

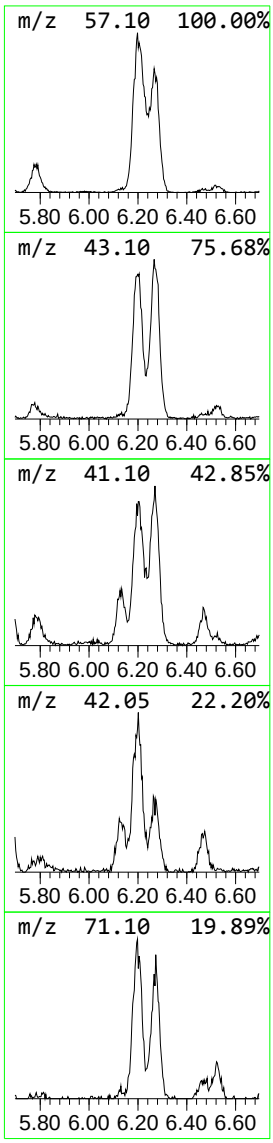
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 6 Hexane, 2,5-dimethyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.198	6.97 ppbv	631040	1,4-Difluorobenzene	3.959

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2,5-dimethyl-	114	C8H18	000592-13-2	64
2	Hexane, 2,5-dimethyl-	114	C8H18	000592-13-2	50
3	Heptane, 2-methyl-	114	C8H18	000592-27-8	50
4	Heptane, 4-propyl-	142	C10H22	003178-29-8	40
5	Heptane, 2-methyl-	114	C8H18	000592-27-8	38





Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042369.D
Acq On : 17 Apr 2025 21:45
Operator : SY/MD
Sample : Q1726-04
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025

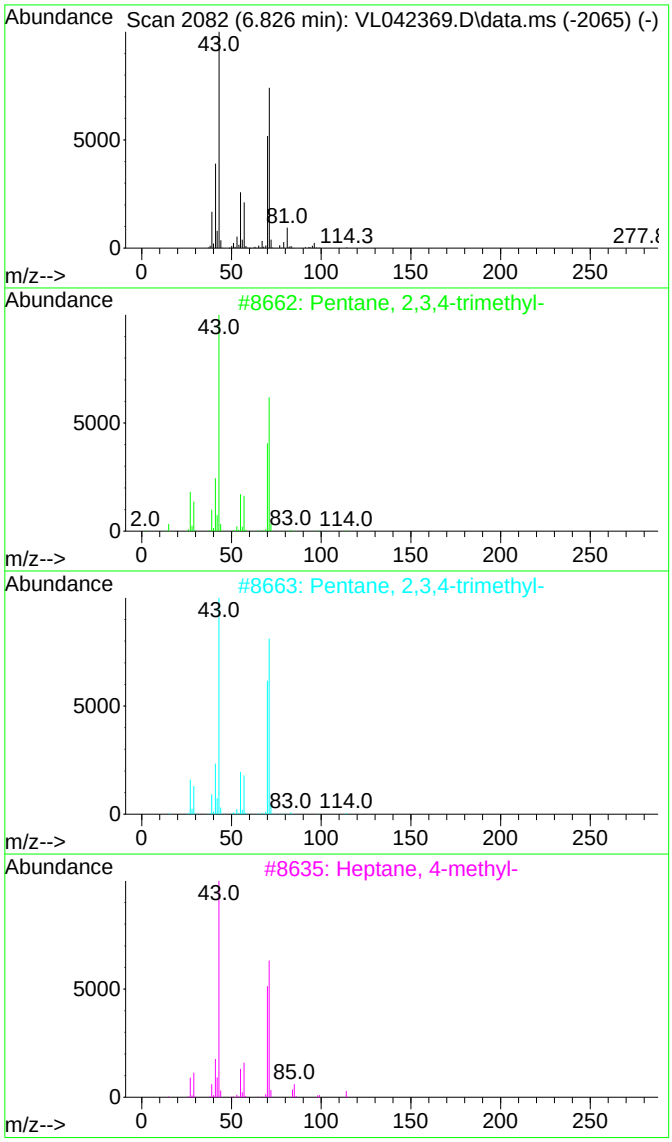
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

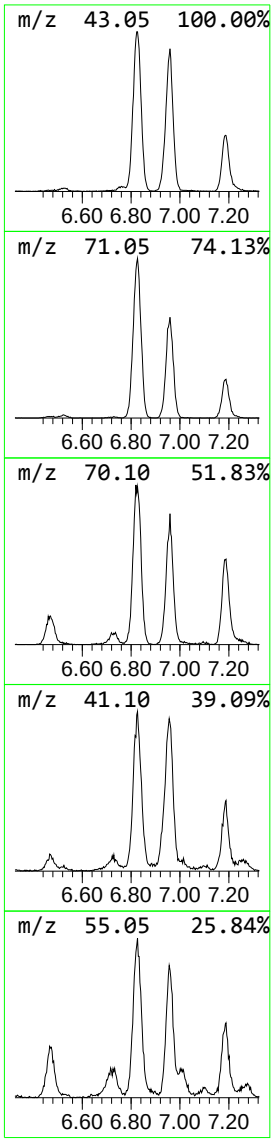
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 7 Pentane, 2,3,4-trimethyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.826	13.37 ppbv	1613940	Chlorobenzene-d5	8.881

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	86
2	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	86
3	Heptane, 4-methyl-	114	C8H18	000589-53-7	78
4	Pentane, 3-ethyl-	100	C7H16	000617-78-7	64
5	Ethanedioic acid, bis(3-methylbu...	230	C12H22O4	002051-00-5	64





Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042369.D
Acq On : 17 Apr 2025 21:45
Operator : SY/MD
Sample : Q1726-04
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025

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

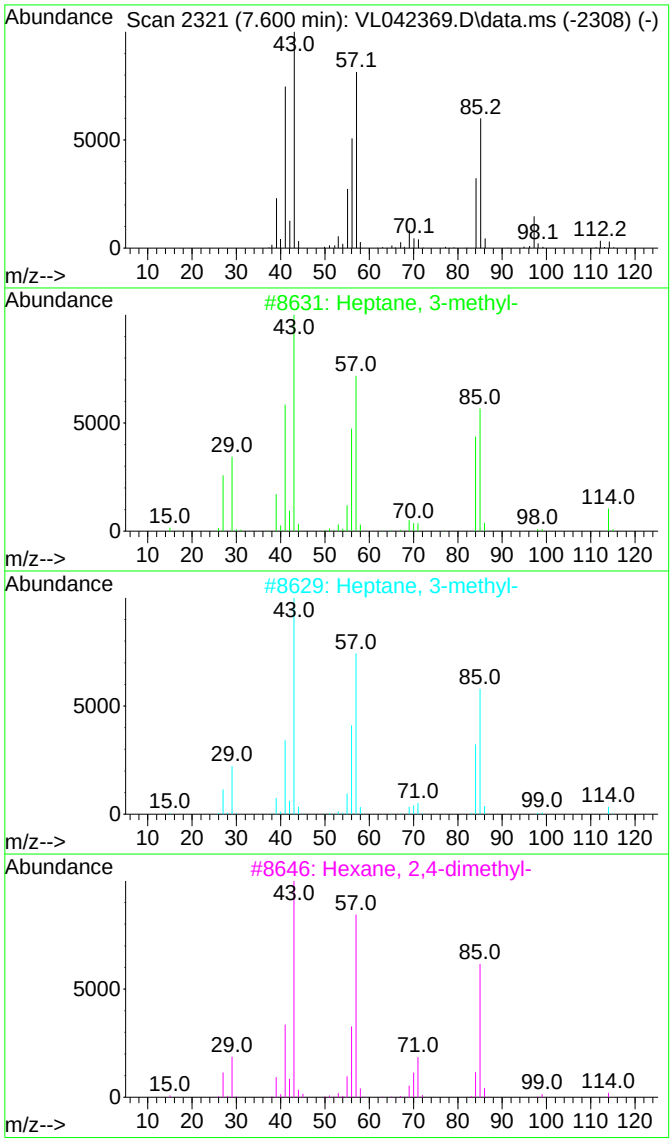
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

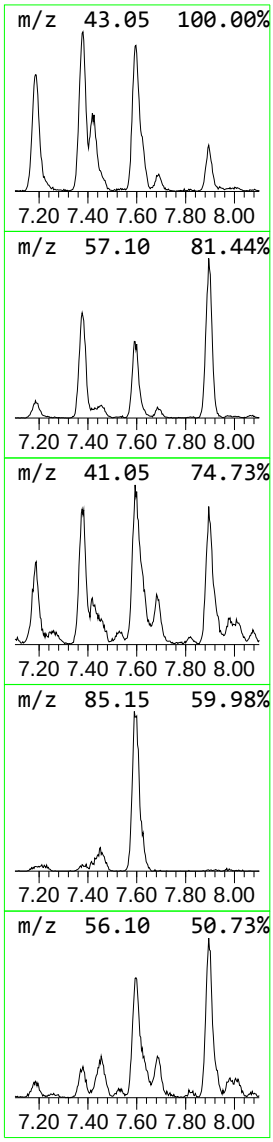
****

Peak Number 8 Heptane, 3-methyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.600	9.37 ppbv	1130630	Chlorobenzene-d5	8.881

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptane, 3-methyl-	114	C8H18	000589-81-1	78
2	Heptane, 3-methyl-	114	C8H18	000589-81-1	64
3	Hexane, 2,4-dimethyl-	114	C8H18	000589-43-5	58
4	Hexane, 2-methyl-	100	C7H16	000591-76-4	53
5	Hexane, 2,4-dimethyl-	114	C8H18	000589-43-5	53





Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042369.D
Acq On : 17 Apr 2025 21:45
Operator : SY/MD
Sample : Q1726-04
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025

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

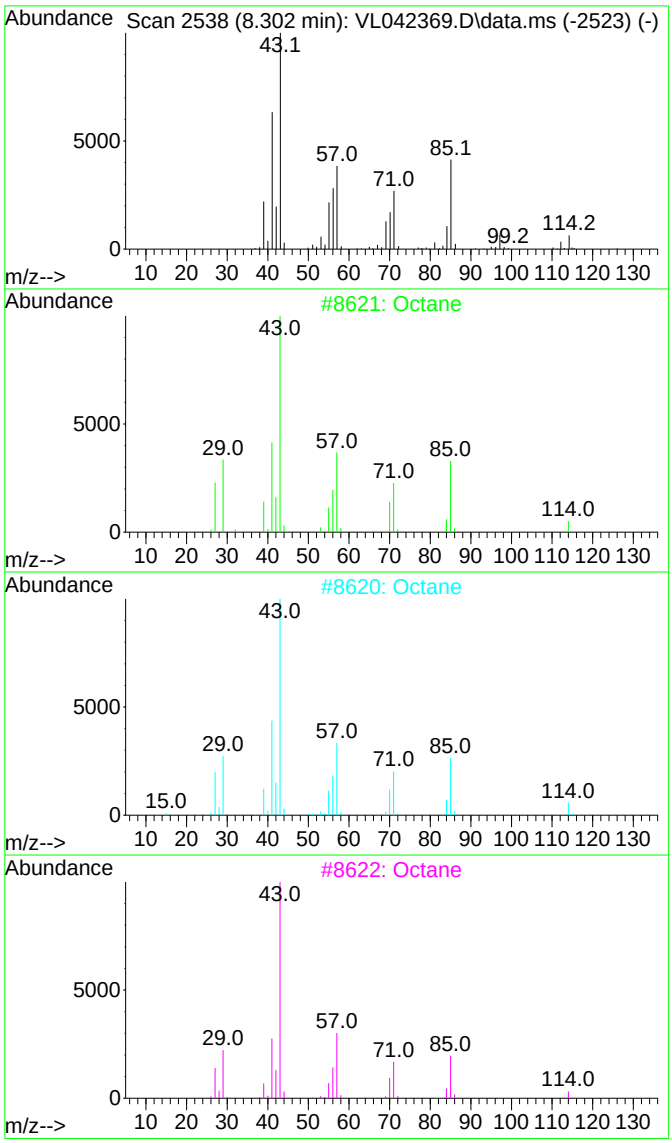
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

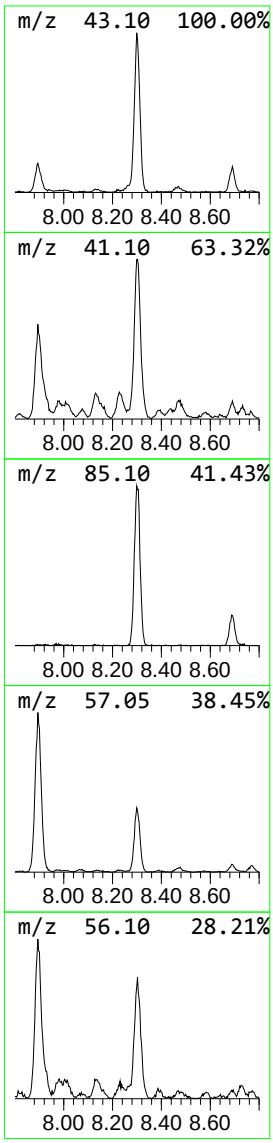
****

Peak Number 9 Octane Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.302	9.88 ppbv	1191800	Chlorobenzene-d5	8.881

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octane	114	C8H18	000111-65-9	87
2	Octane	114	C8H18	000111-65-9	87
3	Octane	114	C8H18	000111-65-9	80
4	Octane	114	C8H18	000111-65-9	64
5	Oxalic acid, butyl isohexyl ester	230	C12H22O4	1000309-32-7	50





Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042369.D
Acq On : 17 Apr 2025 21:45
Operator : SY/MD
Sample : Q1726-04
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025

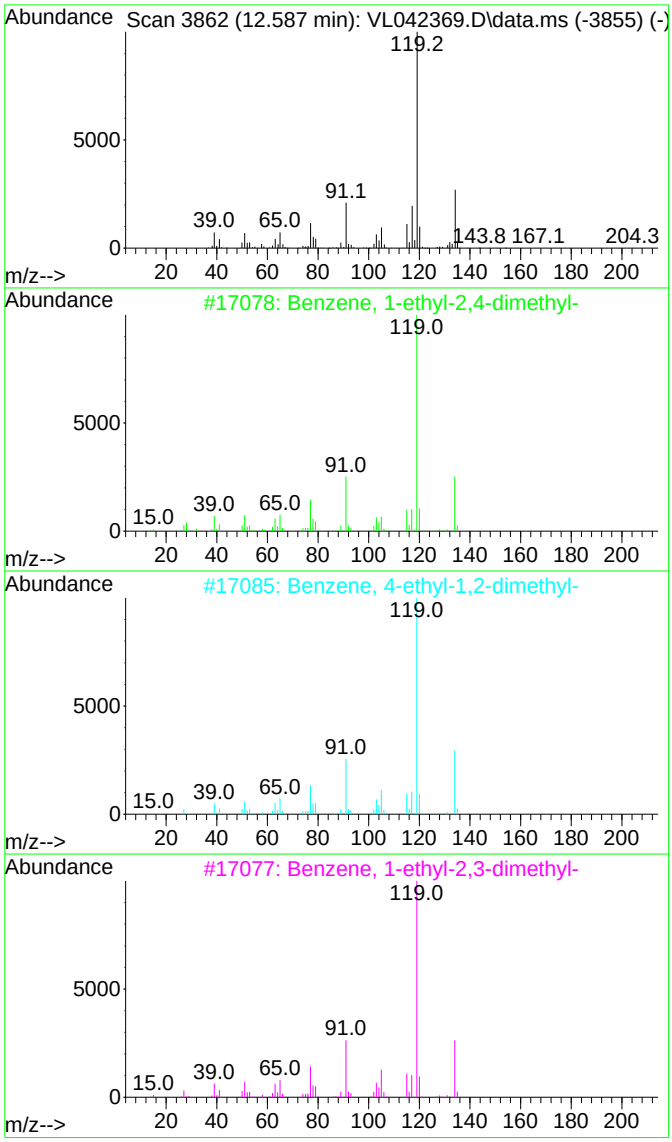
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

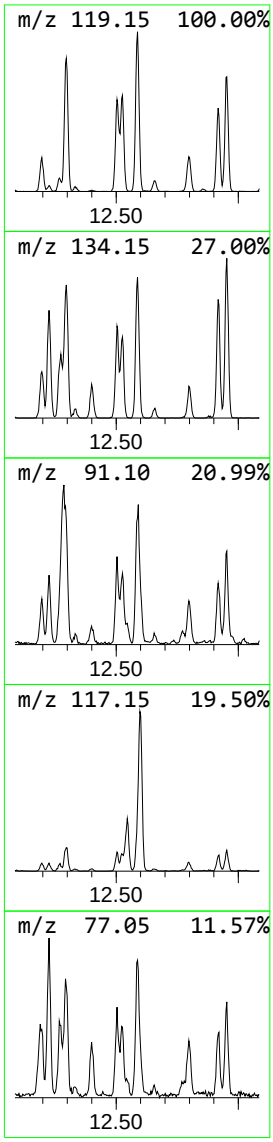
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 10 Benzene, 1-ethyl-2,4-dimethyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.587	7.45 ppbv	899143	Chlorobenzene-d5	8.881

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-ethyl-2,4-dimethyl-	134	C10H14	000874-41-9	94
2	Benzene, 4-ethyl-1,2-dimethyl-	134	C10H14	000934-80-5	94
3	Benzene, 1-ethyl-2,3-dimethyl-	134	C10H14	000933-98-2	94
4	o-Cymene	134	C10H14	000527-84-4	94
5	Benzene, 2-ethyl-1,3-dimethyl-	134	C10H14	002870-04-4	93





Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042369.D
Acq On : 17 Apr 2025 21:45
Operator : SY/MD
Sample : Q1726-04
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025

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
Butane	1.622	8.6	ppbv	382214	1	2.787	442911	10.0
Cyclopentane, m...	3.227	6.8	ppbv	301673	1	2.787	442911	10.0
Hexane, 2-methyl-	4.052	10.4	ppbv	941843	2	3.959	905161	10.0
Hexane, 3-methyl-	4.269	11.4	ppbv	1033110	2	3.959	905161	10.0
Cyclohexane, me...	5.661	9.5	ppbv	856162	2	3.959	905161	10.0
Hexane, 2,5-dim...	6.198	7.0	ppbv	631040	2	3.959	905161	10.0
Pentane, 2,3,4-...	6.826	13.4	ppbv	1613940	3	8.881	1206740	10.0
Heptane, 3-methyl-	7.600	9.4	ppbv	1130630	3	8.881	1206740	10.0
Octane	8.302	9.9	ppbv	1191800	3	8.881	1206740	10.0
Benzene, 1-ethy...	12.587	7.5	ppbv	899143	3	8.881	1206740	10.0

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

Report of Analysis

Client:	Woodard & Curran	Date Collected:	04/01/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	IA-B2-5-03312025DL	SDG No.:	Q1726
Lab Sample ID:	Q1726-04DL	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
VL042379.D	20		04/18/25 03:03	VL041725

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	4.20	20.8	UD	20.8	49.5	ug/m3
64-17-5	Ethanol	340	641	EDQ	12.1	18.8	ug/m3
74-87-3	Chloromethane	2.00	4.13	UD	4.13	20.6	ug/m3
75-01-4	Vinyl Chloride	0.28	0.72	UD	0.72	1.53	ug/m3
74-83-9	Bromomethane	2.80	10.9	UD	10.9	38.8	ug/m3
75-00-3	Chloroethane	3.40	8.97	UD	8.97	26.4	ug/m3
109-99-9	Tetrahydrofuran	2.60	7.67	UD	7.67	29.5	ug/m3
75-69-4	Trichlorofluoromethane	3.20	18.0	UD	18.0	56.2	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	3.20	24.5	UD	24.5	76.7	ug/m3
76-14-2	Dichlorotetrafluoroethane	1.80	12.6	UD	12.6	69.9	ug/m3
593-60-2	Bromoethene	2.40	10.5	UD	10.5	43.7	ug/m3
75-65-0	tert-Butyl alcohol	3.80	11.5	UD	11.5	30.3	ug/m3
142-82-5	Heptane	9.40	38.5	JD	9.02	41.0	ug/m3
67-63-0	Isopropyl Alcohol	36.2	89.0	D	3.44	24.6	ug/m3
75-35-4	1,1-Dichloroethene	2.80	11.1	UD	11.1	39.6	ug/m3
67-64-1	Acetone	530	1260	ED	11.4	23.8	ug/m3
75-15-0	Carbon Disulfide	3.20	9.97	UD	9.97	31.1	ug/m3
1634-04-4	Methyl tert-Butyl Ether	2.40	8.65	UD	8.65	36.0	ug/m3
75-09-2	Methylene Chloride	3.80	13.2	UD	13.2	34.7	ug/m3
156-60-5	trans-1,2-Dichloroethene	3.80	15.1	UD	15.1	39.6	ug/m3
75-34-3	1,1-Dichloroethane	2.60	10.5	UD	10.5	40.5	ug/m3
110-82-7	Cyclohexane	4.40	15.2	UD	15.2	34.4	ug/m3
78-93-3	2-Butanone	2.40	7.08	UD	7.08	29.5	ug/m3
56-23-5	Carbon Tetrachloride	0.22	1.38	UD	1.38	3.77	ug/m3
156-59-2	cis-1,2-Dichloroethene	1.80	7.14	UD	7.14	39.6	ug/m3
67-66-3	Chloroform	1.70	8.30	UD	8.30	48.8	ug/m3
71-55-6	1,1,1-Trichloroethane	0.19	1.04	UD	1.04	3.27	ug/m3
540-84-1	2,2,4-Trimethylpentane	21.1	98.5	D	9.34	46.7	ug/m3
71-43-2	Benzene	2.50	7.99	JD	5.43	31.9	ug/m3
107-06-2	1,2-Dichloroethane	1.80	7.29	UD	7.29	40.5	ug/m3
79-01-6	Trichloroethene	0.34	1.83	UD	1.83	3.22	ug/m3
78-87-5	1,2-Dichloropropane	2.20	10.2	UD	10.2	46.2	ug/m3
75-27-4	Bromodichloromethane	1.50	10.1	UD	10.1	67.0	ug/m3
108-10-1	4-Methyl-2-Pentanone	1.90	7.79	UD	7.79	41.0	ug/m3
108-88-3	Toluene	58.3	220	D	8.29	37.7	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:	04/01/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	IA-B2-5-03312025DL	SDG No.:	Q1726
Lab Sample ID:	Q1726-04DL	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
VL042379.D	20		04/18/25 03:03	VL041725

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	1.20	5.45	UD	5.45	45.4	ug/m3
10061-01-5	cis-1,3-Dichloropropene	1.30	5.90	UD	5.90	45.4	ug/m3
79-00-5	1,1,2-Trichloroethane	1.40	7.64	UD	7.64	54.6	ug/m3
124-48-1	Dibromochloromethane	1.30	11.1	UD	11.1	85.2	ug/m3
106-93-4	1,2-Dibromoethane	1.40	10.8	UD	10.8	15.4	ug/m3
127-18-4	Tetrachloroethene	0.30	2.03	UD	2.03	4.07	ug/m3
108-90-7	Chlorobenzene	1.50	6.91	UD	6.91	46.0	ug/m3
100-41-4	Ethyl Benzene	12.3	53.4	D	10.4	43.4	ug/m3
179601-23-1	m/p-Xylene	45.1	196	D	18.2	86.9	ug/m3
95-47-6	o-Xylene	16.8	73.0	D	10.4	43.4	ug/m3
100-42-5	Styrene	2.20	9.37	UD	9.37	42.6	ug/m3
75-25-2	Bromoform	1.10	11.4	UD	11.4	103	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	0.22	1.51	UD	1.51	4.12	ug/m3
95-49-8	2-Chlorotoluene	2.20	11.4	UD	11.4	51.8	ug/m3
108-67-8	1,3,5-Trimethylbenzene	7.90	38.8	JD	10.8	49.2	ug/m3
95-63-6	1,2,4-Trimethylbenzene	22.4	110	D	7.87	49.2	ug/m3
541-73-1	1,3-Dichlorobenzene	1.60	9.62	UD	9.62	60.1	ug/m3
106-46-7	1,4-Dichlorobenzene	1.10	6.61	UD	6.61	60.1	ug/m3
95-50-1	1,2-Dichlorobenzene	1.50	9.02	UD	9.02	60.1	ug/m3
120-82-1	1,2,4-Trichlorobenzene	1.70	12.6	UD	12.6	74.2	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	1.70	18.1	UD	18.1	107	ug/m3
106-99-0	1,3-Butadiene	2.60	5.75	UD	5.75	22.1	ug/m3
91-20-3	Naphthalene	1.50	7.86	UD	7.86	10.5	ug/m3
622-96-8	4-Ethyltoluene	6.00	29.5	JD	11.8	49.2	ug/m3
110-54-3	Hexane	2.20	7.75	UD	7.75	35.2	ug/m3
107-05-1	Allyl Chloride	3.00	9.39	UD	9.39	31.3	ug/m3
123-91-1	1,4-Dioxane	4.20	15.1	UD	15.1	36.0	ug/m3
80-62-6	Methyl Methacrylate	1.70	6.96	UD	6.96	41.0	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	10.3			70 (65) - 130 (135)	103%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	92500		2.784			
540-36-3	1,4-Difluorobenzene	261000		3.956			
3114-55-4	Chlorobenzene-d5	222000		8.878			

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

Report of Analysis

Client:	Woodard & Curran	Date Collected:	04/01/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	IA-B2-5-03312025DL	SDG No.:	Q1726
Lab Sample ID:	Q1726-04DL	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
VL042379.D	20		04/18/25 03:03	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 : VL042379.D
Acq On : 18 Apr 2025 03:03
Operator : SY/MD
Sample : Q1726-04DL 20X
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 18 04:41:12 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-B2-5-03312025DL

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	92518	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.956	114	260556	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.878	117	221578	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.371	95	188260	10.339	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 103.400%			
Target Compounds						Qvalue
9) Propene	1.486	41	1792	0.253	ppbv #	15
10) Heptane	4.972	43	9319m	0.468	ppbv	
13) Ethanol	1.719	45	18982	16.847	ppbv	84
15) Acetone	1.832	43	401815	26.530	ppbv	100
19) Isopropyl Alcohol	1.887	45	15229	1.810	ppbv #	1
36) Benzene	3.651	78	3444m	0.123	ppbv	
44) 2,2,4-Trimethylpentane	4.642	57	51174m	1.054	ppbv	
53) Toluene	6.930	91	98263	2.914	ppbv	98
58) Ethyl Benzene	9.354	91	27028	0.616	ppbv	93
59) m/p-Xylene	9.526	91	79744	2.255	ppbv	100
60) o-Xylene	9.963	91	29832	0.838	ppbv	96
64) n-propylbenzene	10.986	120	2879m	0.219	ppbv	
72) 4-Ethyltoluene	11.125	105	12986	0.298	ppbv #	63
73) 1,3,5-Trimethylbenzene	11.202	105	15149	0.394	ppbv	94
74) 1,2,4-Trimethylbenzene	11.536	105	50354	1.122	ppbv #	62

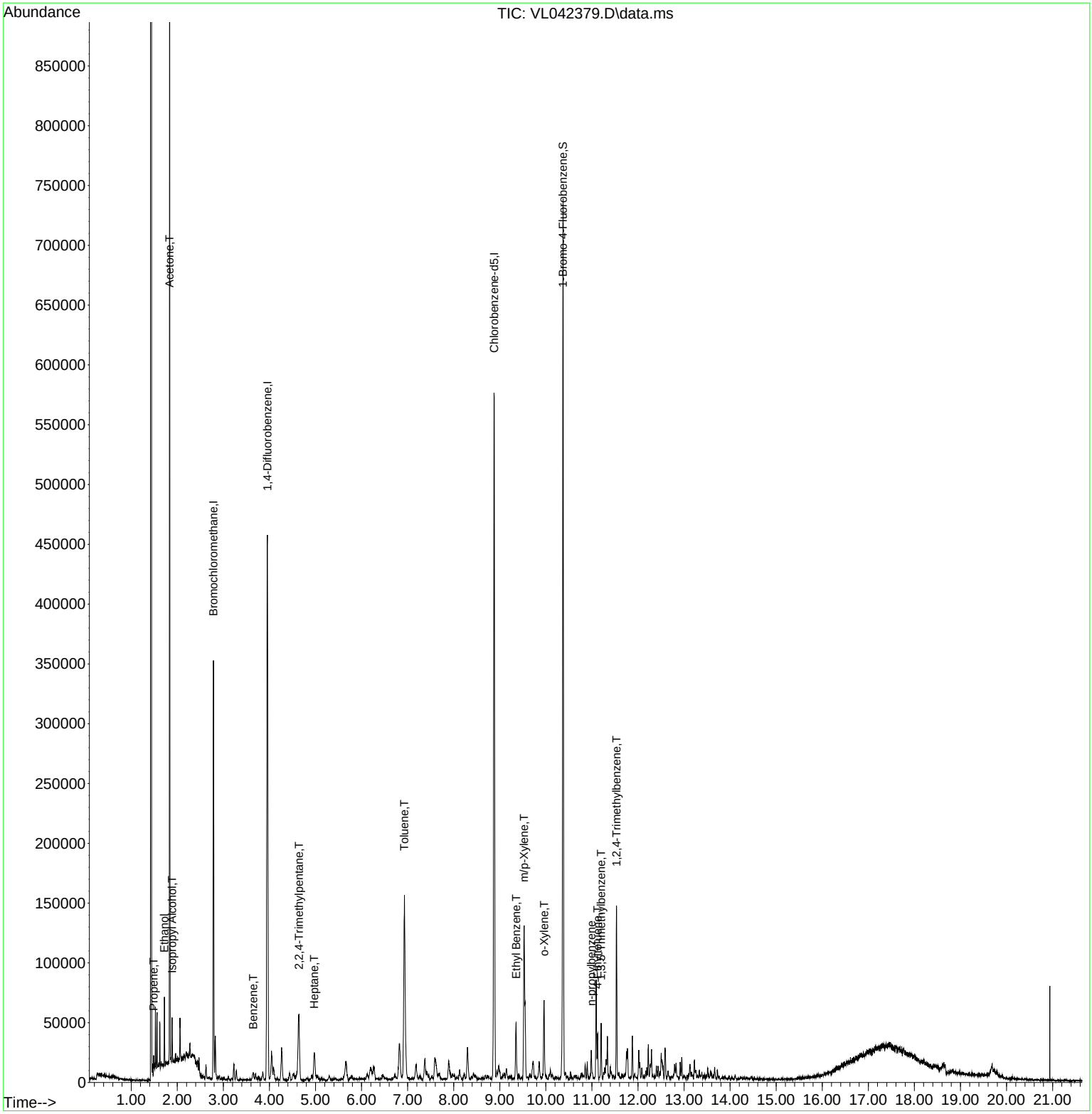
(#) = qualifier out of range (m) = manual integration (+) = signals summed

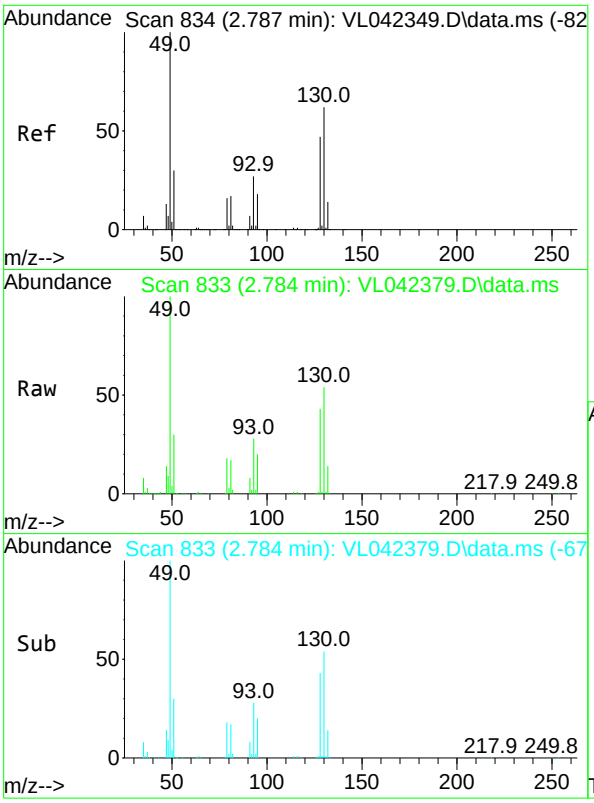
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042379.D
Acq On : 18 Apr 2025 03:03
Operator : SY/MD
Sample : Q1726-04DL 20X
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 18 04:41:12 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-B2-5-03312025DL

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

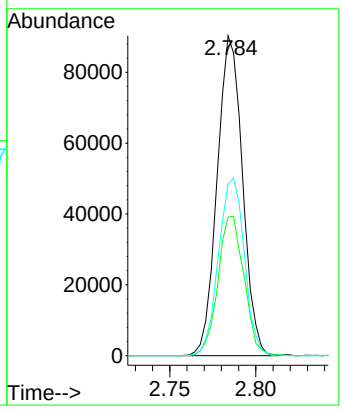




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 8
Delta R.T. -0.003 min
Lab File: VL042379.D
Acq: 18 Apr 2025 03:03

Tgt Ion: 49 Resp: 9251

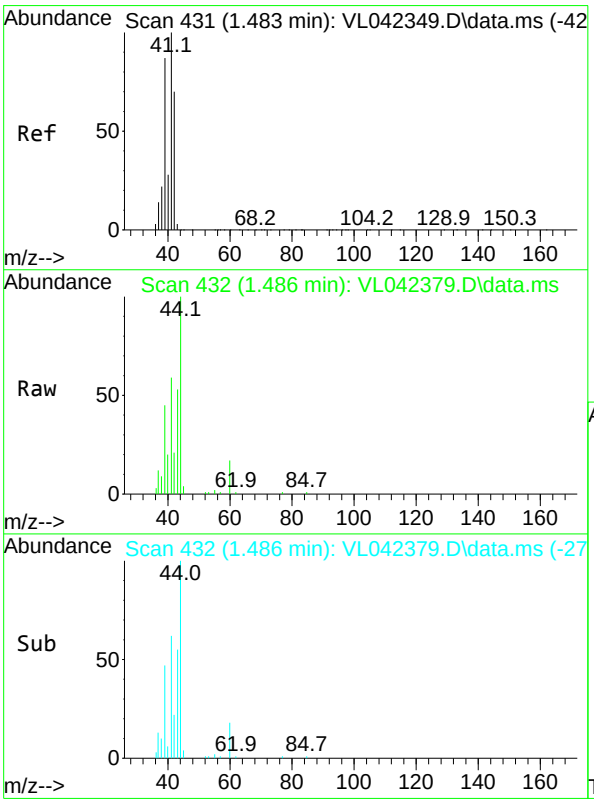
Ion	Ratio	Lower	Upper
49	100		
128	44.8	22.8	68.4
130	56.6	29.3	88.0



Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025DL

Manual Integrations
APPROVED

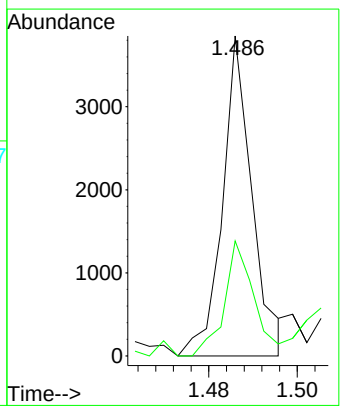
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

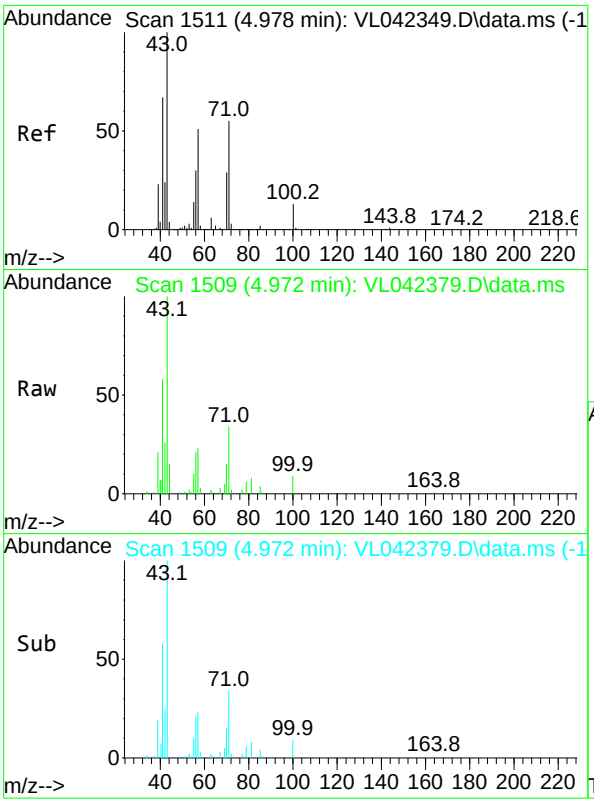


#9
Propene
Concen: 0.253 ppbv
RT: 1.486 min Scan# 432
Delta R.T. 0.003 min
Lab File: VL042379.D
Acq: 18 Apr 2025 03:03

Tgt Ion: 41 Resp: 1792

Ion	Ratio	Lower	Upper
41	100		
42	0.0	56.2	84.4#

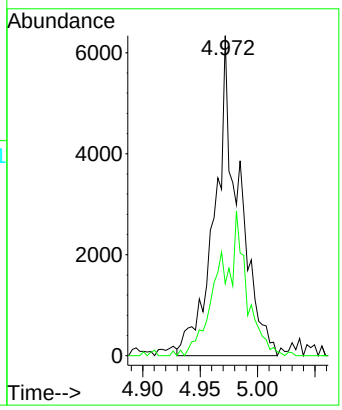




#10
Heptane
Concen: 0.468 ppbv m
RT: 4.972 min Scan# 1
Delta R.T. -0.006 min
Lab File: VL042379.D
Acq: 18 Apr 2025 03:03

Tgt Ion: 43 Resp: 931

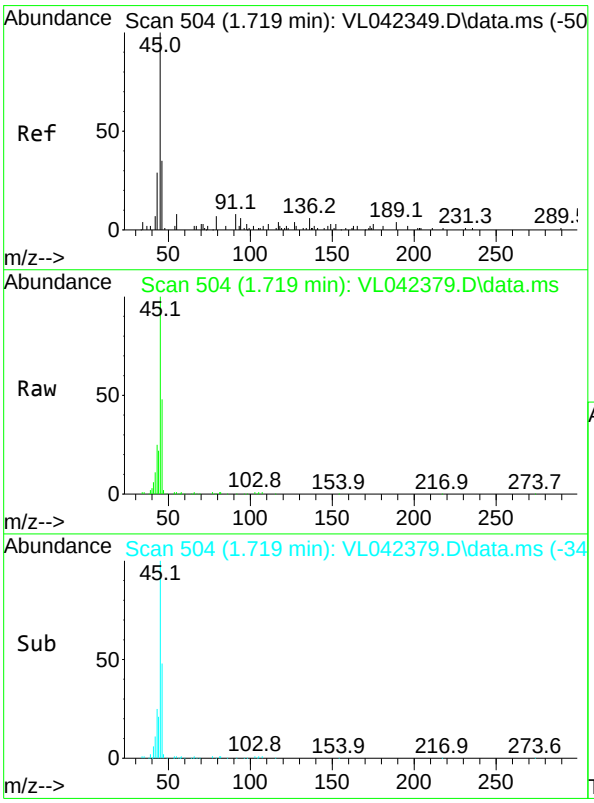
Ion	Ratio	Lower	Upper
43	100		
57	0.0	39.9	59.9



Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025DL

Manual Integrations
APPROVED

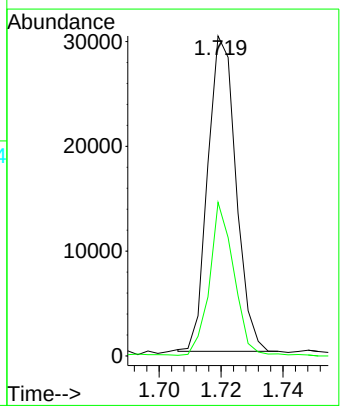
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

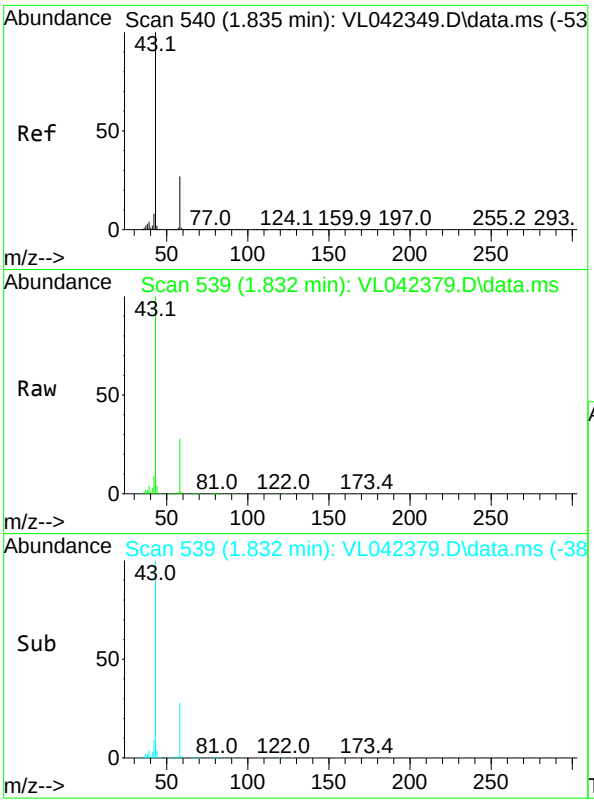


#13
Ethanol
Concen: 16.847 ppbv
RT: 1.719 min Scan# 504
Delta R.T. 0.000 min
Lab File: VL042379.D
Acq: 18 Apr 2025 03:03

Tgt Ion: 45 Resp: 18982

Ion	Ratio	Lower	Upper
45	100		
46	43.4	21.9	87.7





#15
Acetone
Concen: 26.530 ppbv
RT: 1.832 min Scan# 5
Delta R.T. -0.003 min
Lab File: VL042379.D
Acq: 18 Apr 2025 03:03

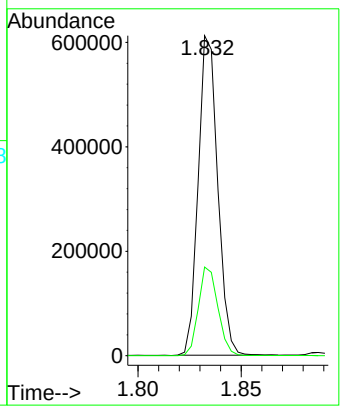
Tgt Ion: 43 Resp: 40181

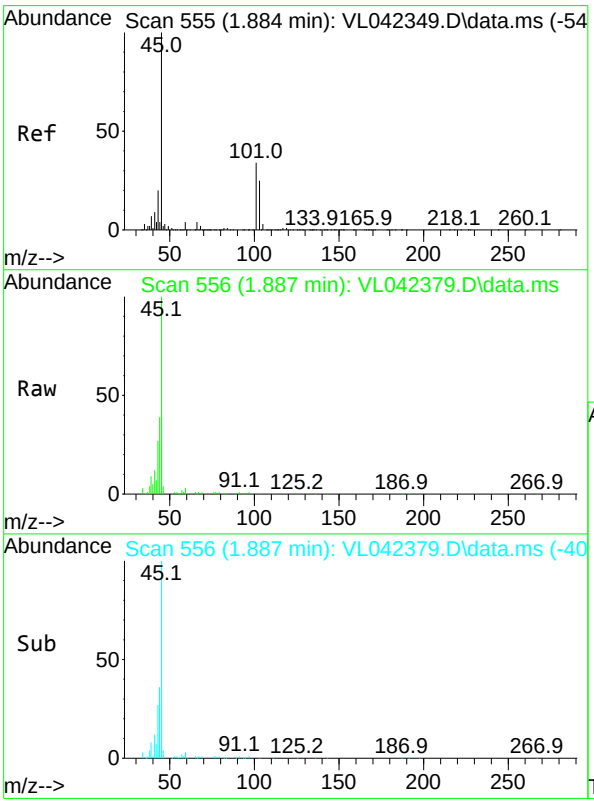
Ion	Ratio	Lower	Upper
43	100		
58	27.9	22.4	33.6

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025DL

Manual Integrations
APPROVED

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

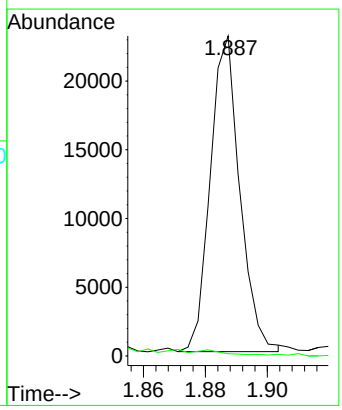


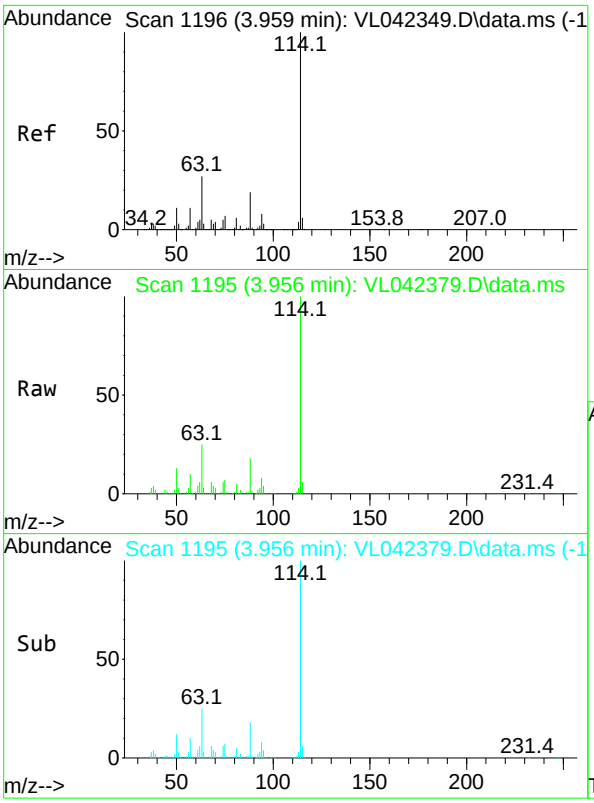


#19
Isopropyl Alcohol
Concen: 1.810 ppbv
RT: 1.887 min Scan# 556
Delta R.T. 0.003 min
Lab File: VL042379.D
Acq: 18 Apr 2025 03:03

Tgt Ion: 45 Resp: 15229

Ion	Ratio	Lower	Upper
45	100		
58	737.4	34.5	51.7#

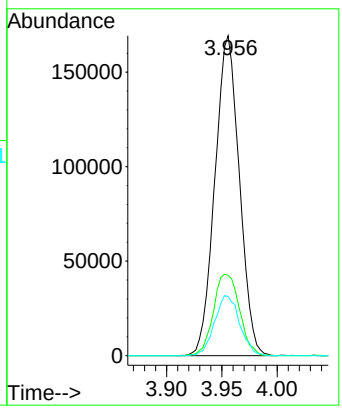




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.956 min Scan# 1
Delta R.T. -0.003 min
Lab File: VL042379.D
Acq: 18 Apr 2025 03:03

Tgt Ion:114 Resp: 26055

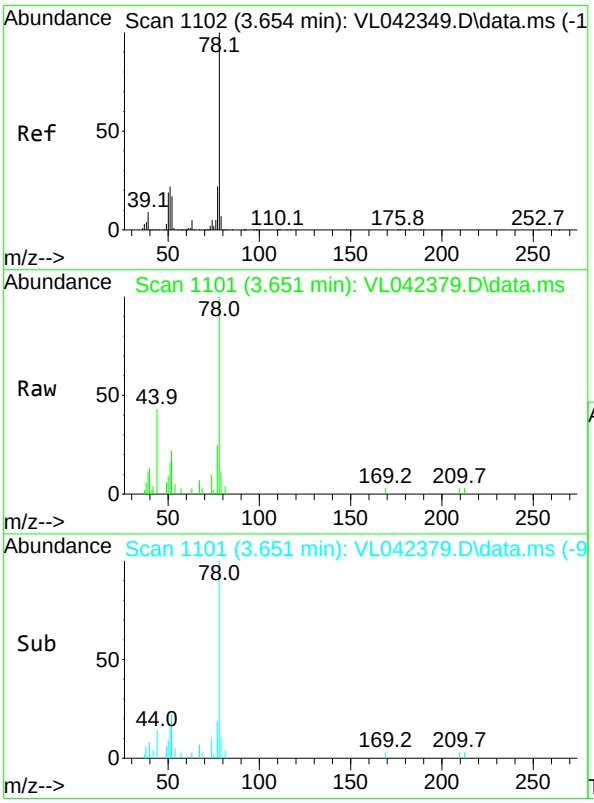
Ion	Ratio	Lower	Upper
114	100		
63	27.2	21.8	32.6
88	19.2	15.5	23.3



Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025DL

Manual Integrations
APPROVED

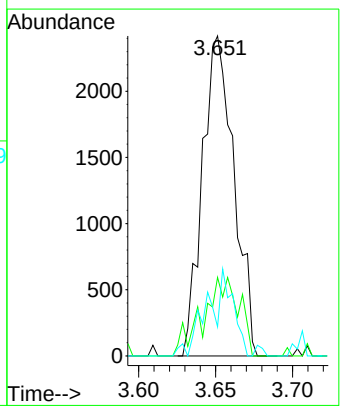
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

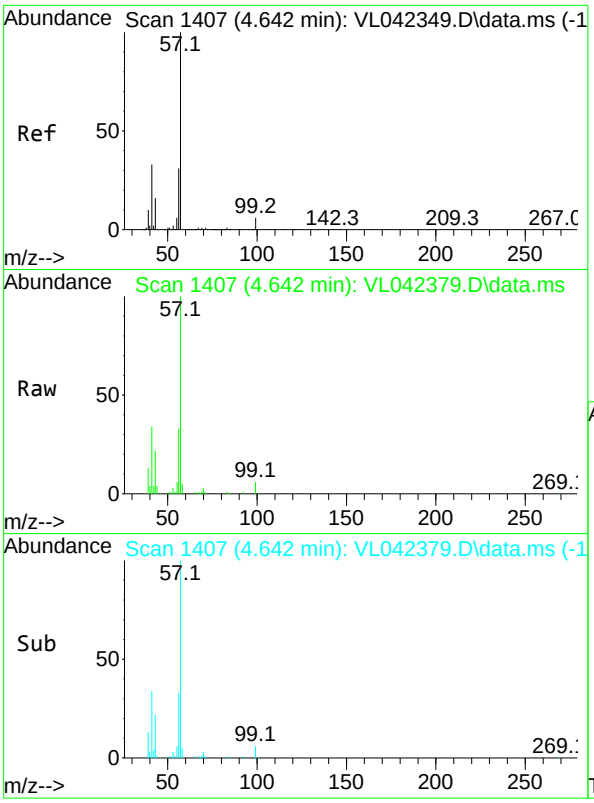


#36
Benzene
Concen: 0.123 ppbv m
RT: 3.651 min Scan# 1101
Delta R.T. -0.003 min
Lab File: VL042379.D
Acq: 18 Apr 2025 03:03

Tgt Ion: 78 Resp: 3444

Ion	Ratio	Lower	Upper
78	100		
77	24.5	17.4	26.0
50	9.1	15.5	23.3#

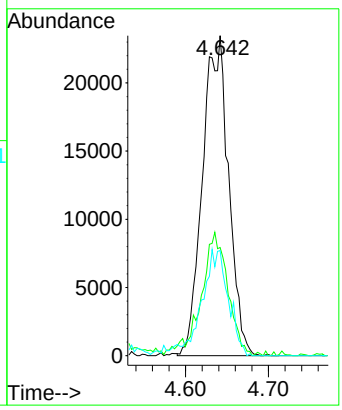




#44
2,2,4-Trimethylpentane
Concen: 1.054 ppbv m
RT: 4.642 min Scan# 14
Delta R.T. 0.000 min
Lab File: VL042379.D
Acq: 18 Apr 2025 03:03

Tgt Ion: 57 Resp: 5117

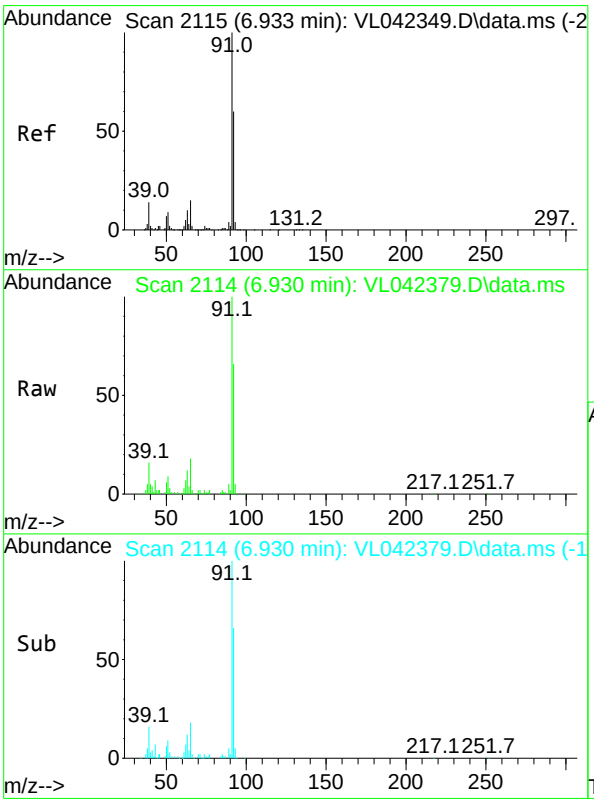
Ion	Ratio	Lower	Upper
57	100		
41	40.1	27.2	40.8
56	35.0	25.7	38.5



Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025DL

Manual Integrations
APPROVED

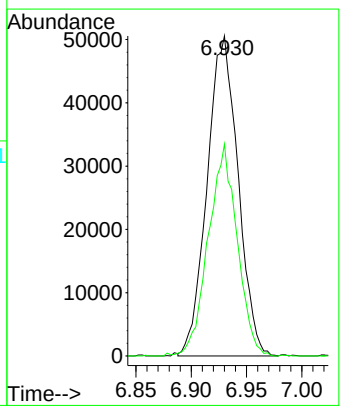
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

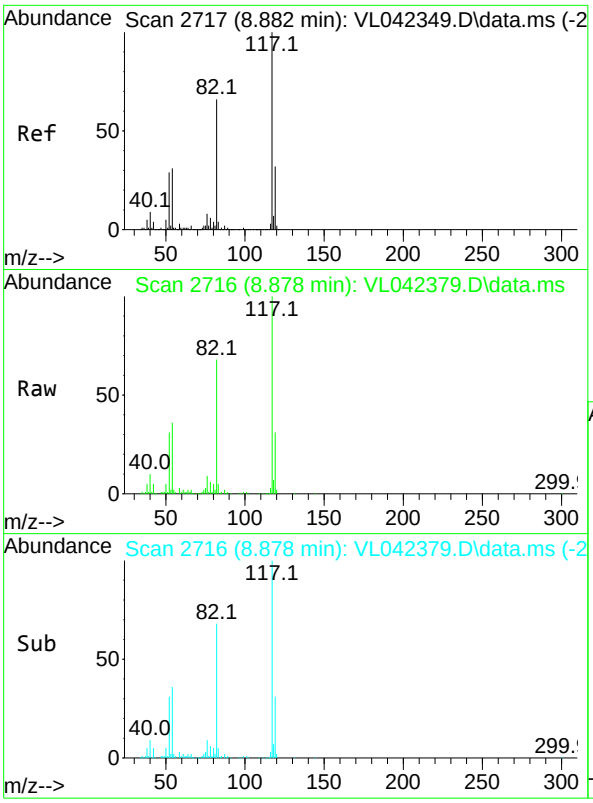


#53
Toluene
Concen: 2.914 ppbv
RT: 6.930 min Scan# 2114
Delta R.T. -0.003 min
Lab File: VL042379.D
Acq: 18 Apr 2025 03:03

Tgt Ion: 91 Resp: 98263

Ion	Ratio	Lower	Upper
91	100		
92	61.9	48.2	72.4

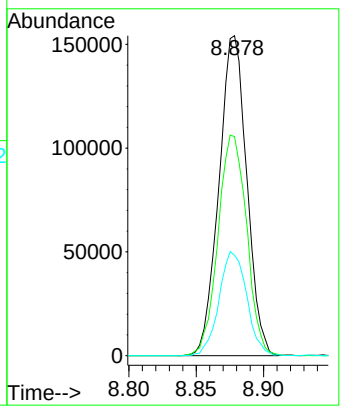




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.878 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL042379.D
Acq: 18 Apr 2025 03:03

Tgt Ion:117 Resp: 22157

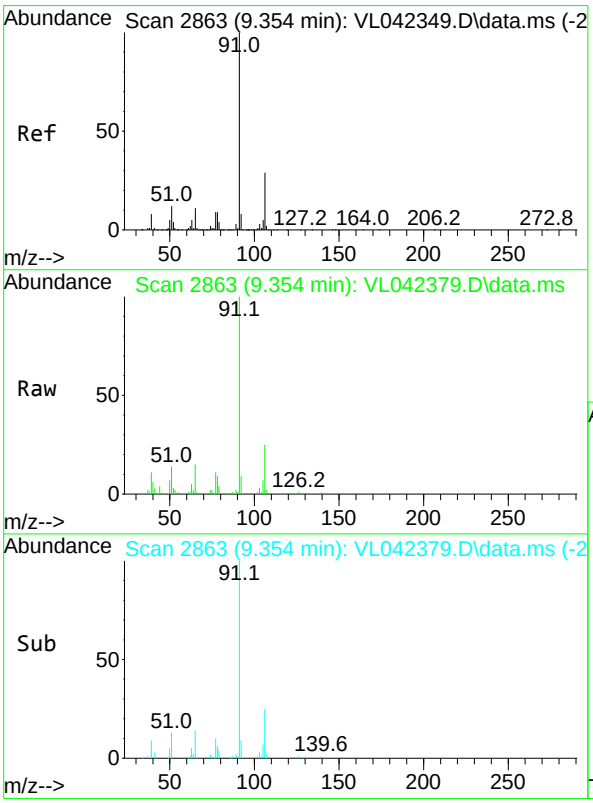
Ion	Ratio	Lower	Upper
117	100		
82	70.9	57.8	86.6
119	32.4	25.2	37.8



Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025DL

Manual Integrations
APPROVED

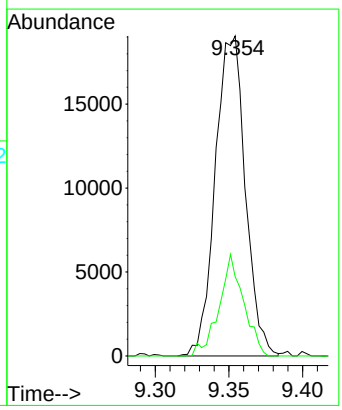
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

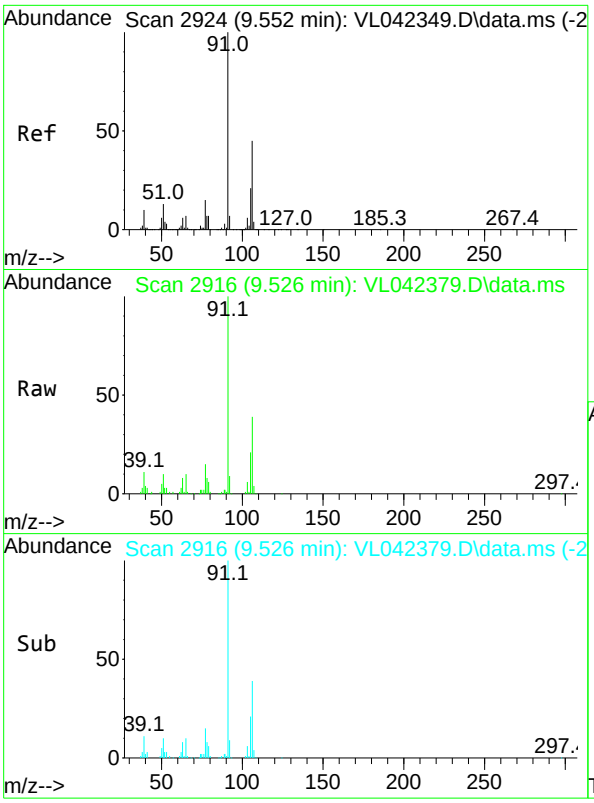


#58
Ethyl Benzene
Concen: 0.616 ppbv
RT: 9.354 min Scan# 2863
Delta R.T. 0.000 min
Lab File: VL042379.D
Acq: 18 Apr 2025 03:03

Tgt Ion: 91 Resp: 27028

Ion	Ratio	Lower	Upper
91	100		
106	24.8	23.0	34.4

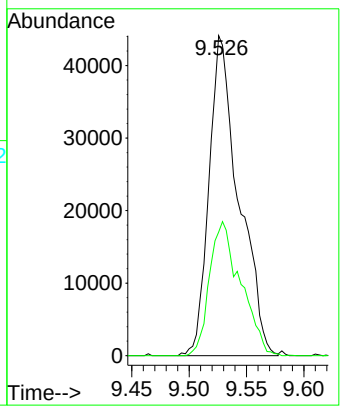




#59
m/p-Xylene
Concen: 2.255 ppbv
RT: 9.526 min Scan# 2
Delta R.T. -0.026 min
Lab File: VL042379.D
Acq: 18 Apr 2025 03:03

Tgt Ion: 91 Resp: 7974

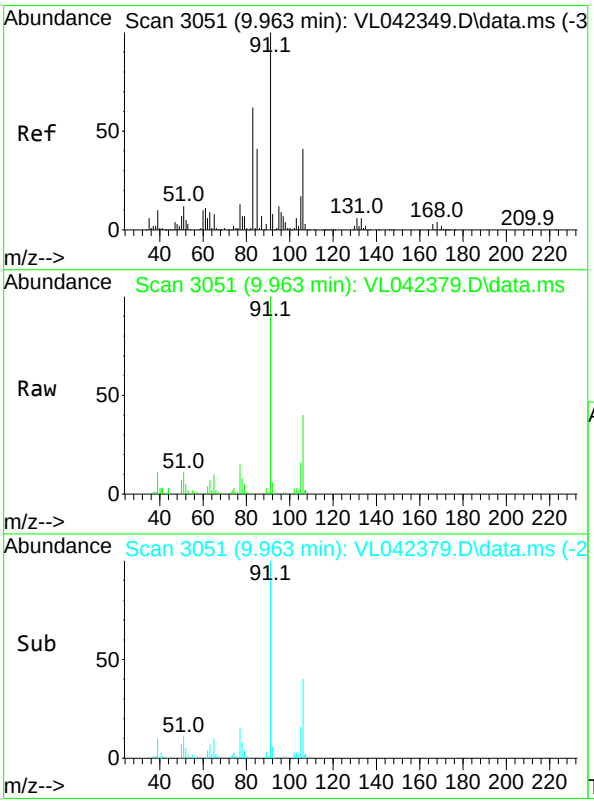
Ion	Ratio	Lower	Upper
91	100		
106	44.0	35.4	53.2



Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025DL

Manual Integrations
APPROVED

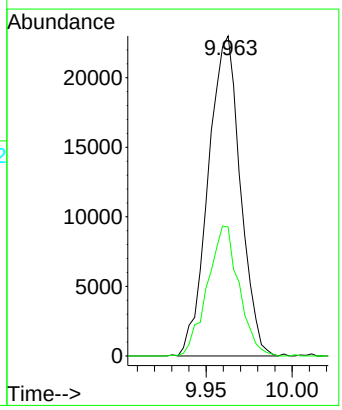
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

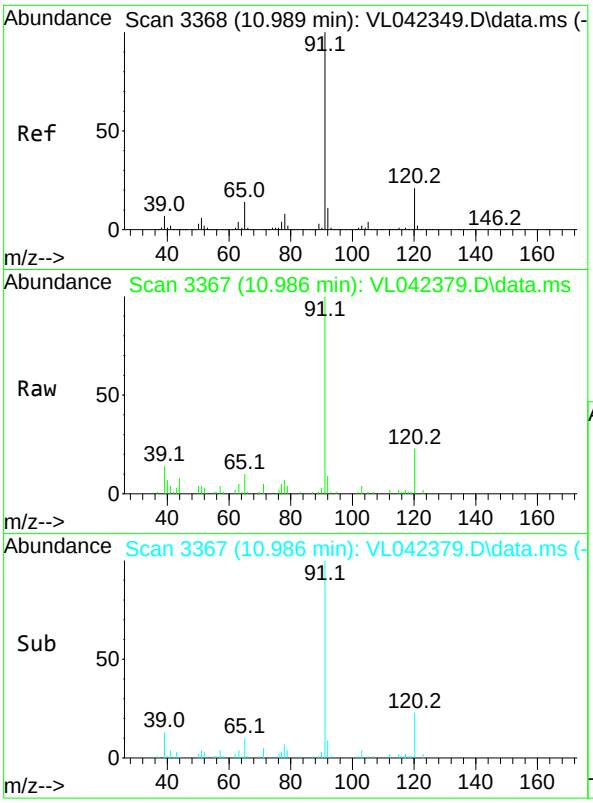


#60
o-Xylene
Concen: 0.838 ppbv
RT: 9.963 min Scan# 3051
Delta R.T. 0.000 min
Lab File: VL042379.D
Acq: 18 Apr 2025 03:03

Tgt Ion: 91 Resp: 29832

Ion	Ratio	Lower	Upper
91	100		
106	40.0	21.1	63.4

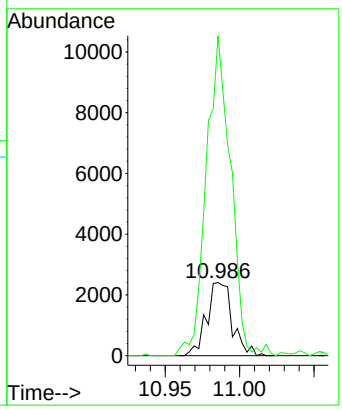




#64
n-propylbenzene
Concen: 0.219 ppbv m
RT: 10.986 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042379.D
Acq: 18 Apr 2025 03:03

Tgt Ion:120 Resp: 287

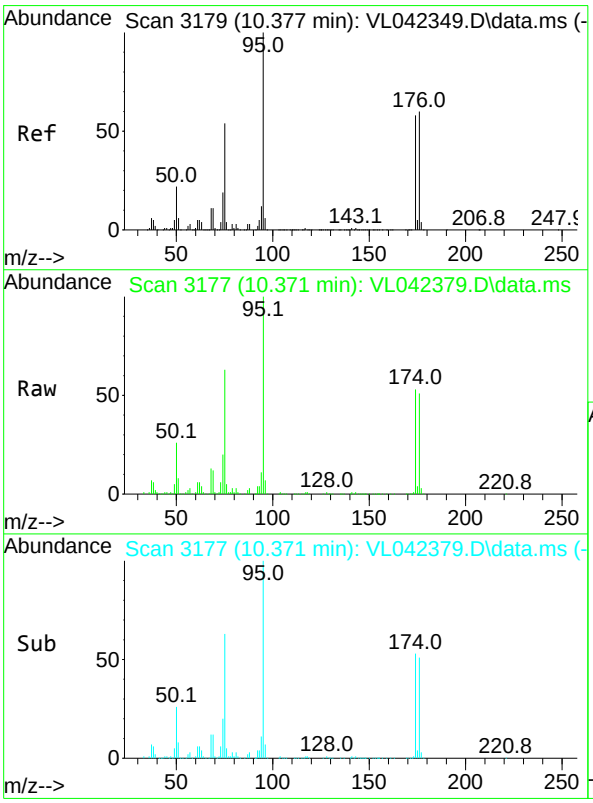
Ion	Ratio	Lower	Upper
120	100		
91	424.0	392.4	588.6



Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025DL

Manual Integrations
APPROVED

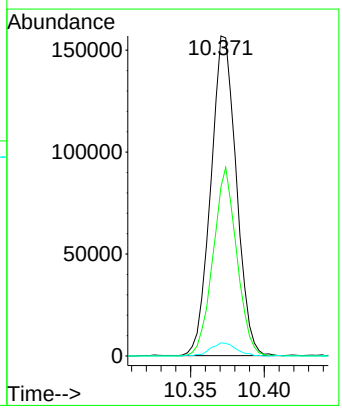
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

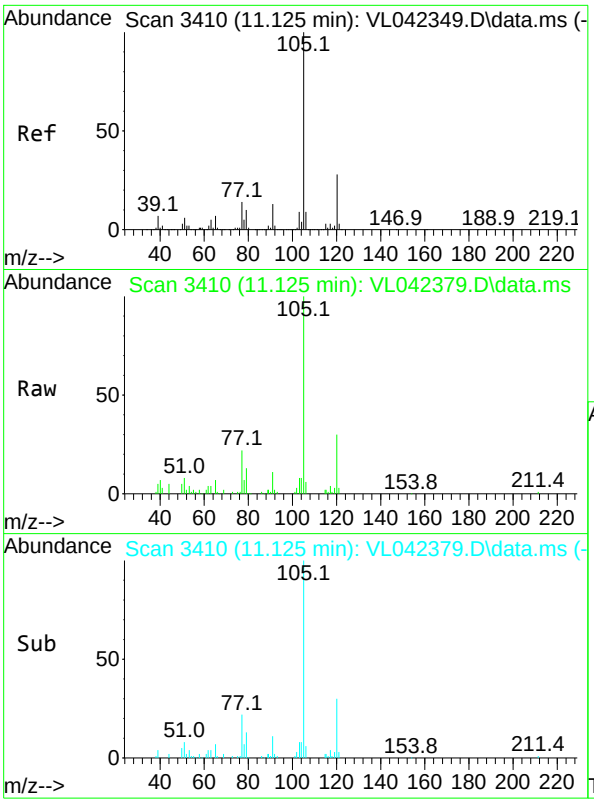


#68
1-Bromo-4-Fluorobenzene
Concen: 10.339 ppbv
RT: 10.371 min Scan# 3177
Delta R.T. -0.006 min
Lab File: VL042379.D
Acq: 18 Apr 2025 03:03

Tgt Ion: 95 Resp: 188260

Ion	Ratio	Lower	Upper
95	100		
174	54.8	48.5	72.7
175	4.2	3.7	5.5

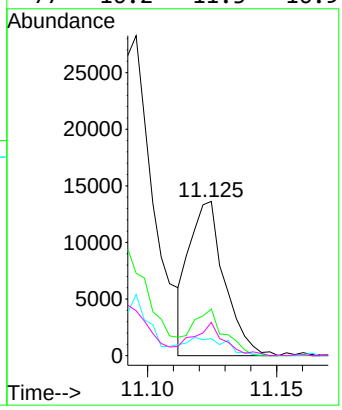




#72
4-Ethyltoluene
Concen: 0.298 ppbv
RT: 11.125 min Scan# 34
Delta R.T. 0.000 min
Lab File: VL042379.D
Acq: 18 Apr 2025 03:03

Tgt Ion:105 Resp: 1298

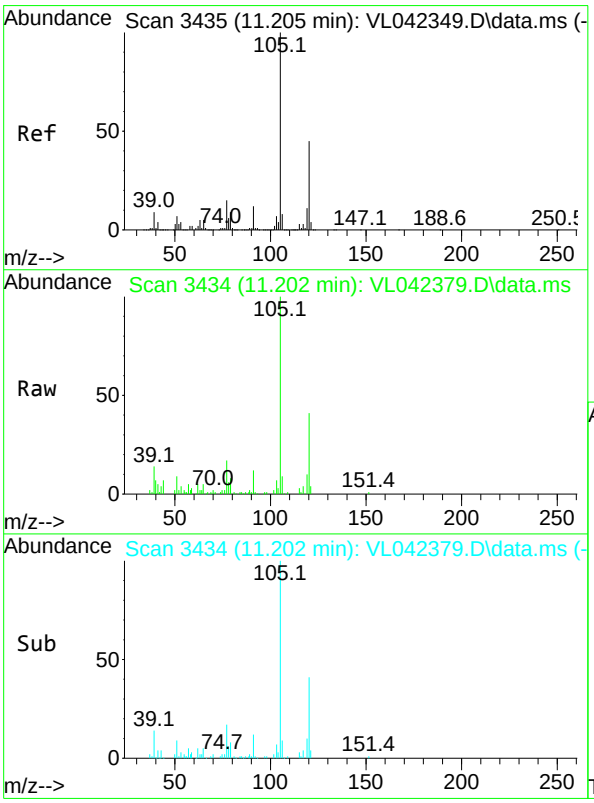
Ion	Ratio	Lower	Upper
105	100		
120	0.0	23.2	34.8#
91	0.0	10.4	15.6#
77	16.2	11.3	16.9



Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025DL

Manual Integrations
APPROVED

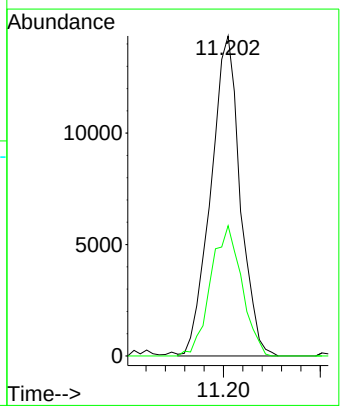
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

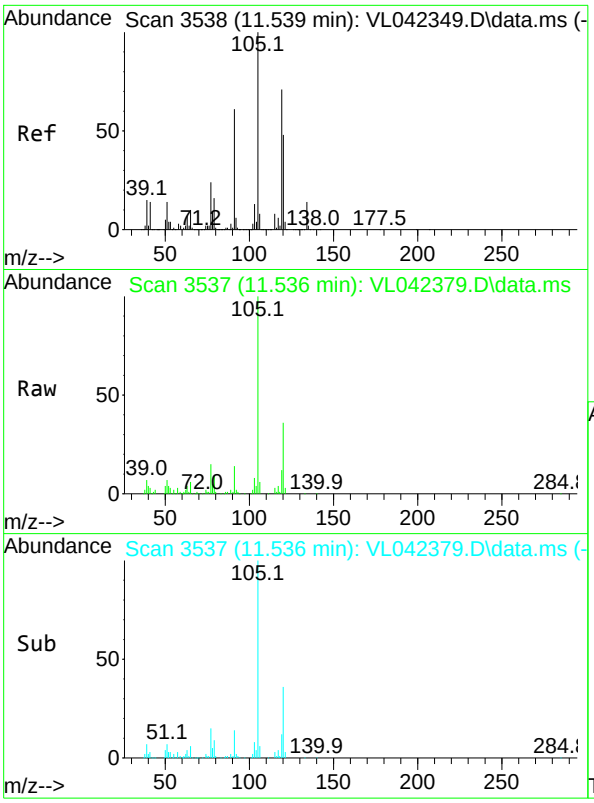


#73
1,3,5-Trimethylbenzene
Concen: 0.394 ppbv
RT: 11.202 min Scan# 3434
Delta R.T. -0.003 min
Lab File: VL042379.D
Acq: 18 Apr 2025 03:03

Tgt Ion:105 Resp: 15149

Ion	Ratio	Lower	Upper
105	100		
120	40.7	35.6	53.4

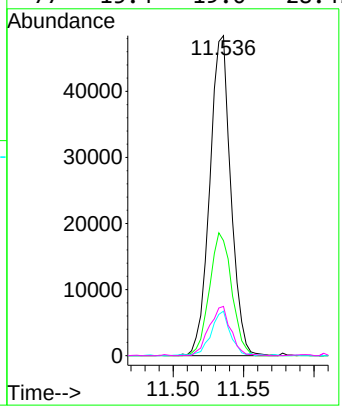




#74
1,2,4-Trimethylbenzene
Concen: 1.122 ppbv
RT: 11.536 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042379.D
Acq: 18 Apr 2025 03:03

Tgt Ion:105 Resp: 5035

Ion	Ratio	Lower	Upper
105	100		
120	35.9	38.1	57.1#
91	13.7	48.8	73.2#
77	15.4	19.0	28.4#



Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025DL

Manual Integrations
APPROVED

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

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

Report of Analysis

Client:	Woodard & Curran	Date Collected:	04/01/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	IA-B2-5-03312025DL2	SDG No.:	Q1726
Lab Sample ID:	Q1726-04DL2	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
VL042389.D	40		04/18/25 13:43	VL041825

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	8.40	41.5	UD	41.5	98.9	ug/m3
64-17-5	Ethanol	240	452	DQ	24.1	37.7	ug/m3
74-87-3	Chloromethane	3.90	8.05	UD	8.05	41.3	ug/m3
75-01-4	Vinyl Chloride	0.56	1.43	UD	1.43	3.07	ug/m3
74-83-9	Bromomethane	5.60	21.7	UD	21.7	77.7	ug/m3
75-00-3	Chloroethane	6.80	17.9	UD	17.9	52.8	ug/m3
109-99-9	Tetrahydrofuran	5.20	15.3	UDQ	15.3	59.0	ug/m3
75-69-4	Trichlorofluoromethane	6.40	36.0	UD	36.0	112	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	6.40	49.0	UD	49.0	153	ug/m3
76-14-2	Dichlorotetrafluoroethane	3.50	24.5	UD	24.5	140	ug/m3
593-60-2	Bromoethene	4.80	21.0	UD	21.0	87.4	ug/m3
75-65-0	tert-Butyl alcohol	7.60	23.0	UD	23.0	60.6	ug/m3
142-82-5	Heptane	6.20	25.4	JDQ	18.0	82.0	ug/m3
67-63-0	Isopropyl Alcohol	25.8	63.4	D	6.88	49.2	ug/m3
75-35-4	1,1-Dichloroethene	5.60	22.2	UD	22.2	79.3	ug/m3
67-64-1	Acetone	380	903	D	22.8	47.5	ug/m3
75-15-0	Carbon Disulfide	6.40	19.9	UD	19.9	62.3	ug/m3
1634-04-4	Methyl tert-Butyl Ether	4.80	17.3	UD	17.3	72.1	ug/m3
75-09-2	Methylene Chloride	7.60	26.4	UD	26.4	69.5	ug/m3
156-60-5	trans-1,2-Dichloroethene	7.60	30.1	UD	30.1	79.3	ug/m3
75-34-3	1,1-Dichloroethane	5.20	21.1	UD	21.1	81.0	ug/m3
110-82-7	Cyclohexane	8.80	30.3	UD	30.3	68.8	ug/m3
78-93-3	2-Butanone	4.80	14.2	UD	14.2	59.0	ug/m3
56-23-5	Carbon Tetrachloride	0.44	2.77	UD	2.77	7.55	ug/m3
156-59-2	cis-1,2-Dichloroethene	3.60	14.3	UD	14.3	79.3	ug/m3
67-66-3	Chloroform	3.30	16.1	UD	16.1	97.7	ug/m3
71-55-6	1,1,1-Trichloroethane	0.38	2.07	UD	2.07	6.55	ug/m3
540-84-1	2,2,4-Trimethylpentane	11.9	55.6	JD	18.7	93.4	ug/m3
71-43-2	Benzene	3.50	11.2	UD	11.2	63.9	ug/m3
107-06-2	1,2-Dichloroethane	3.60	14.6	UD	14.6	81.0	ug/m3
79-01-6	Trichloroethene	0.68	3.65	UD	3.65	6.45	ug/m3
78-87-5	1,2-Dichloropropane	4.40	20.3	UD	20.3	92.4	ug/m3
75-27-4	Bromodichloromethane	3.10	20.8	UD	20.8	134	ug/m3
108-10-1	4-Methyl-2-Pentanone	3.70	15.2	UD	15.2	82.0	ug/m3
108-88-3	Toluene	35.5	134	D	16.6	75.4	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:	04/01/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	IA-B2-5-03312025DL2	SDG No.:	Q1726
Lab Sample ID:	Q1726-04DL2	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
VL042389.D	40		04/18/25 13:43	VL041825

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	2.40	10.9	UD	10.9	90.8	ug/m3
10061-01-5	cis-1,3-Dichloropropene	2.60	11.8	UD	11.8	90.8	ug/m3
79-00-5	1,1,2-Trichloroethane	2.80	15.3	UD	15.3	109	ug/m3
124-48-1	Dibromochloromethane	2.60	22.1	UD	22.1	170	ug/m3
106-93-4	1,2-Dibromoethane	2.90	22.3	UD	22.3	30.7	ug/m3
127-18-4	Tetrachloroethene	0.60	4.07	UD	4.07	8.14	ug/m3
108-90-7	Chlorobenzene	3.00	13.8	UD	13.8	92.1	ug/m3
100-41-4	Ethyl Benzene	7.40	32.1	JD	20.9	86.9	ug/m3
179601-23-1	m/p-Xylene	26.4	115	JD	36.5	174	ug/m3
95-47-6	o-Xylene	10.2	44.3	JD	20.9	86.9	ug/m3
100-42-5	Styrene	4.40	18.7	UD	18.7	85.2	ug/m3
75-25-2	Bromoform	2.30	23.8	UD	23.8	207	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	0.44	3.02	UD	3.02	8.24	ug/m3
95-49-8	2-Chlorotoluene	4.40	22.8	UD	22.8	104	ug/m3
108-67-8	1,3,5-Trimethylbenzene	4.70	23.1	JD	21.6	98.3	ug/m3
95-63-6	1,2,4-Trimethylbenzene	13.5	66.4	JD	15.2	98.3	ug/m3
541-73-1	1,3-Dichlorobenzene	3.20	19.2	UD	19.2	120	ug/m3
106-46-7	1,4-Dichlorobenzene	2.10	12.6	UD	12.6	120	ug/m3
95-50-1	1,2-Dichlorobenzene	3.00	18.0	UD	18.0	120	ug/m3
120-82-1	1,2,4-Trichlorobenzene	3.40	25.2	UD	25.2	148	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	3.40	36.3	UD	36.3	213	ug/m3
106-99-0	1,3-Butadiene	5.20	11.5	UD	11.5	44.3	ug/m3
91-20-3	Naphthalene	3.00	15.7	UD	15.7	21.0	ug/m3
622-96-8	4-Ethyltoluene	4.80	23.6	UD	23.6	98.3	ug/m3
110-54-3	Hexane	4.40	15.5	UD	15.5	70.5	ug/m3
107-05-1	Allyl Chloride	6.00	18.8	UD	18.8	62.6	ug/m3
123-91-1	1,4-Dioxane	8.40	30.3	UD	30.3	72.1	ug/m3
80-62-6	Methyl Methacrylate	3.40	13.9	UDQ	13.9	81.9	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	135000		2.79			
540-36-3	1,4-Difluorobenzene	413000		3.962			
3114-55-4	Chlorobenzene-d5	353000		8.885			

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

Report of Analysis

Client:	Woodard & Curran	Date Collected:	04/01/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	IA-B2-5-03312025DL2	SDG No.:	Q1726
Lab Sample ID:	Q1726-04DL2	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
VL042389.D	40		04/18/25 13:43	VL041825

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\VL041825\
Data File : VL042389.D
Acq On : 18 Apr 2025 13:43
Operator : SY/MD
Sample : Q1726-04DL2 40X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 18 22:58:55 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-B2-5-03312025DL2

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.790	49	134501	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.962	114	412843	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.885	117	353048	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.380	95	286509	9.876	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 98.800%				
Target Compounds							Qvalue
10) Heptane	4.981	43	4460m	0.154	ppbv		
13) Ethanol	1.722	45	9628	5.878	ppbv	#	24
15) Acetone	1.839	43	207223	9.411	ppbv		100
19) Isopropyl Alcohol	1.887	45	7883	0.644	ppbv	#	1
44) 2,2,4-Trimethylpentane	4.648	57	22870m	0.297	ppbv		
53) Toluene	6.936	91	47465	0.888	ppbv		99
58) Ethyl Benzene	9.361	91	12921m	0.185	ppbv		
59) m/p-Xylene	9.532	91	37128	0.659	ppbv		98
60) o-Xylene	9.966	91	14405	0.254	ppbv		99
73) 1,3,5-Trimethylbenzene	11.205	105	7150	0.117	ppbv		97
74) 1,2,4-Trimethylbenzene	11.539	105	24212	0.338	ppbv	#	59

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

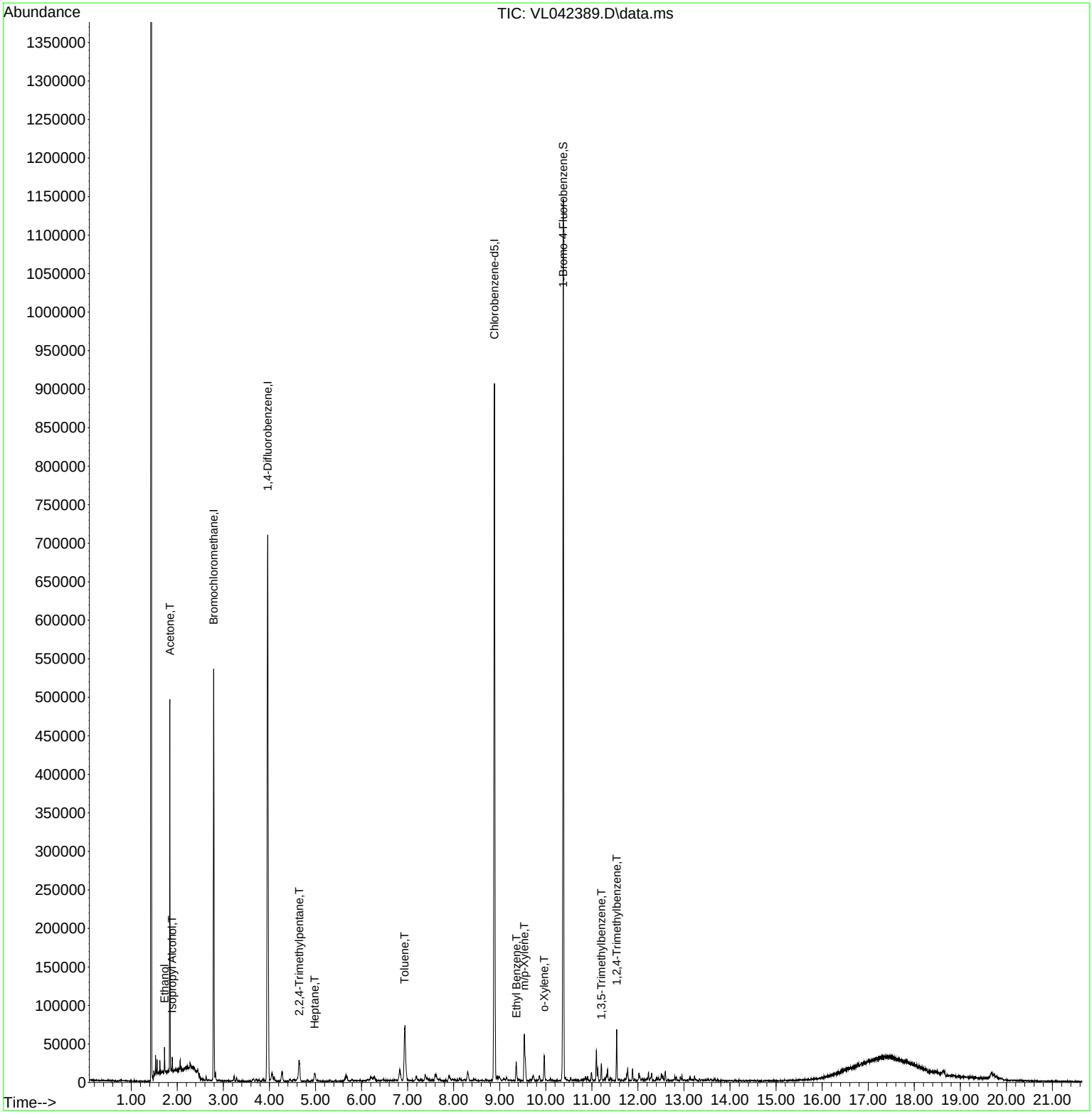
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041825\
Data File : VL042389.D
Acq On : 18 Apr 2025 13:43
Operator : SY/MD
Sample : Q1726-04DL2 40X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

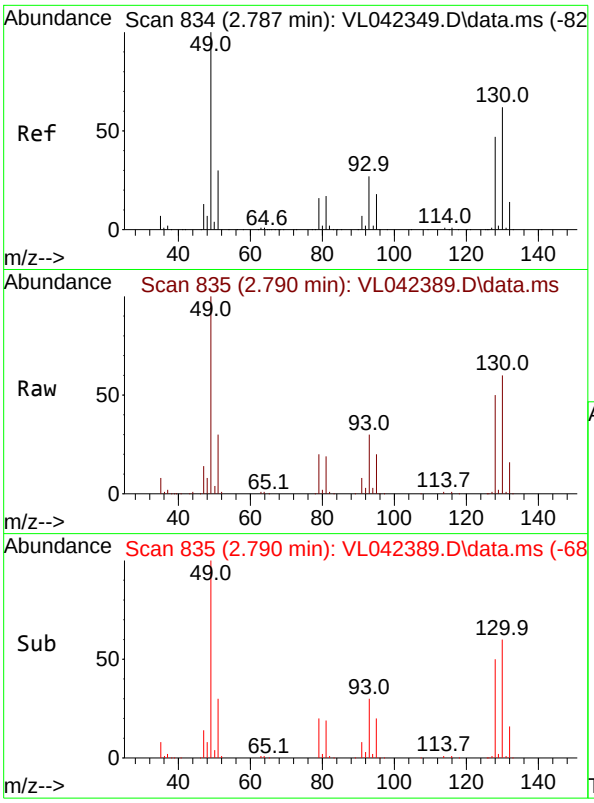
Quant Time: Apr 18 22:58:55 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025DL2

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025

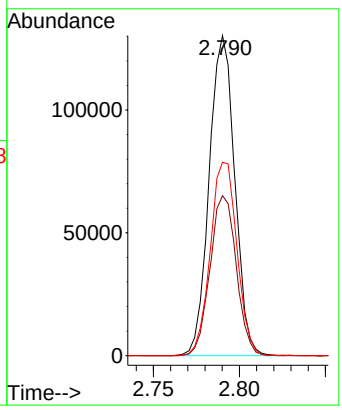




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042389.D
Acq: 18 Apr 2025 13:43

Tgt Ion: 49 Resp: 13450

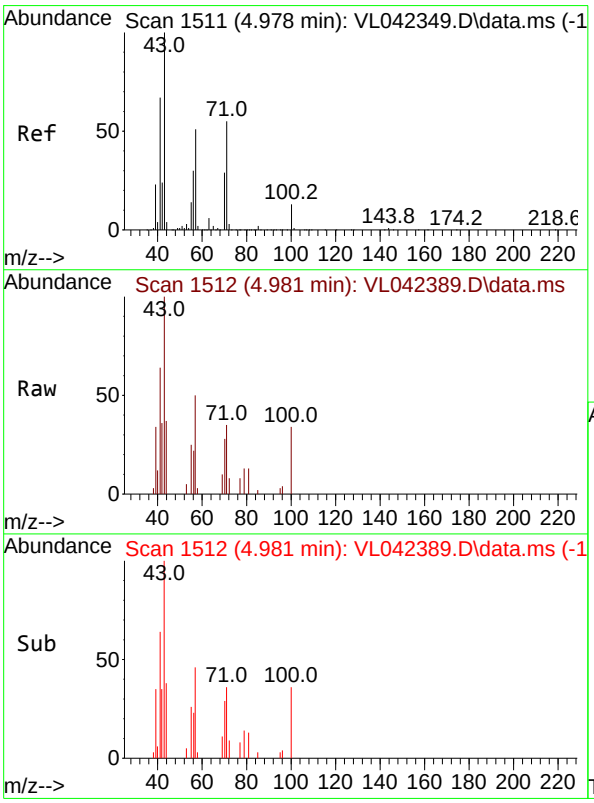
Ion	Ratio	Lower	Upper
49	100		
128	51.5	22.8	68.4
130	63.0	29.3	88.0



Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025DL2

Manual Integrations
APPROVED

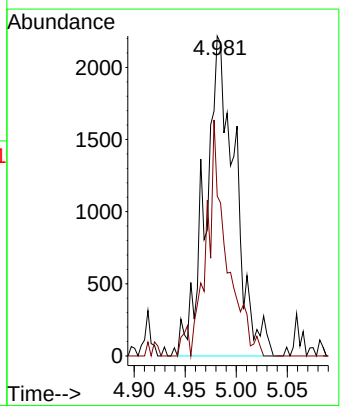
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025

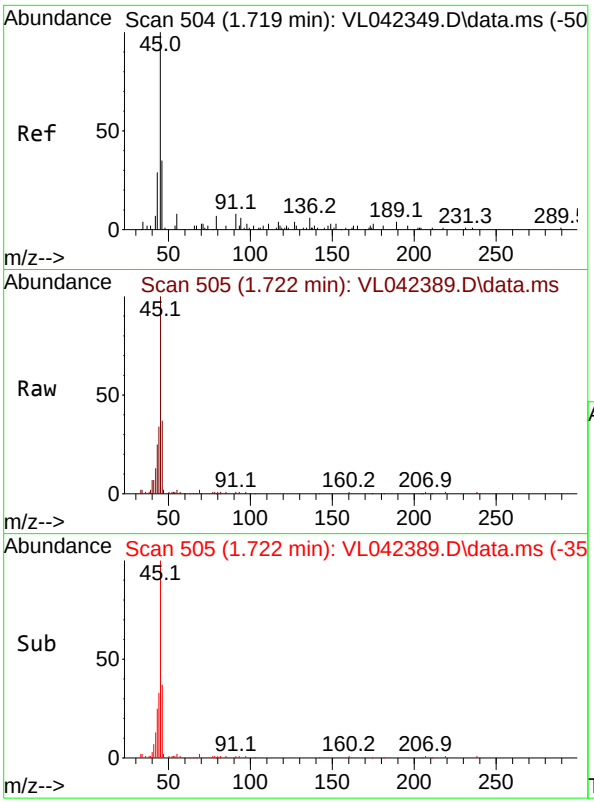


#10
Heptane
Concen: 0.154 ppbv m
RT: 4.981 min Scan# 1512
Delta R.T. 0.003 min
Lab File: VL042389.D
Acq: 18 Apr 2025 13:43

Tgt Ion: 43 Resp: 4460

Ion	Ratio	Lower	Upper
43	100		
57	50.9	39.9	59.9





#13
Ethanol
Concen: 5.878 ppbv
RT: 1.722 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042389.D
Acq: 18 Apr 2025 13:43

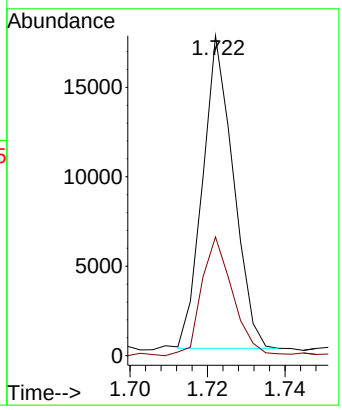
Tgt Ion: 45 Resp: 962

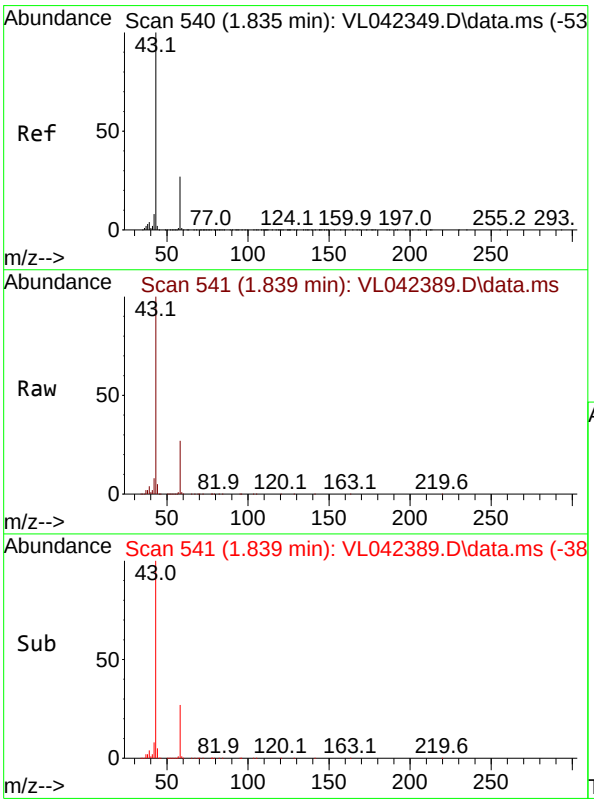
Ion	Ratio	Lower	Upper
45	100		
46	0.0	21.9	87.7

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025DL2

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025

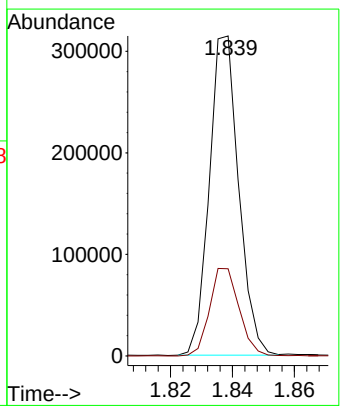


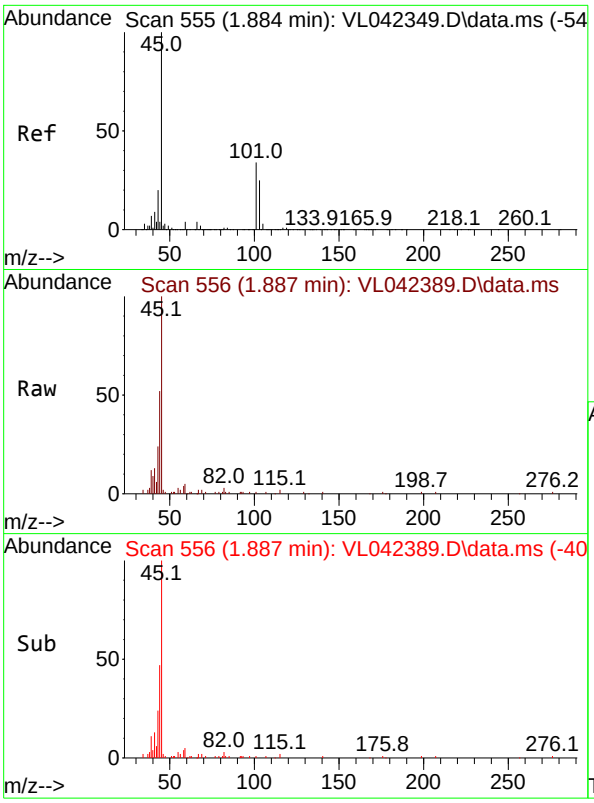


#15
Acetone
Concen: 9.411 ppbv
RT: 1.839 min Scan# 541
Delta R.T. 0.003 min
Lab File: VL042389.D
Acq: 18 Apr 2025 13:43

Tgt Ion: 43 Resp: 207223

Ion	Ratio	Lower	Upper
43	100		
58	27.9	22.4	33.6





#19
Isopropyl Alcohol
Concen: 0.644 ppbv
RT: 1.887 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042389.D
Acq: 18 Apr 2025 13:43

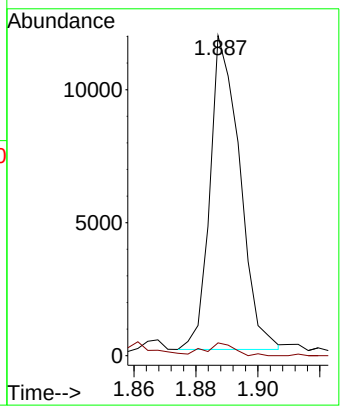
Tgt Ion: 45 Resp: 788

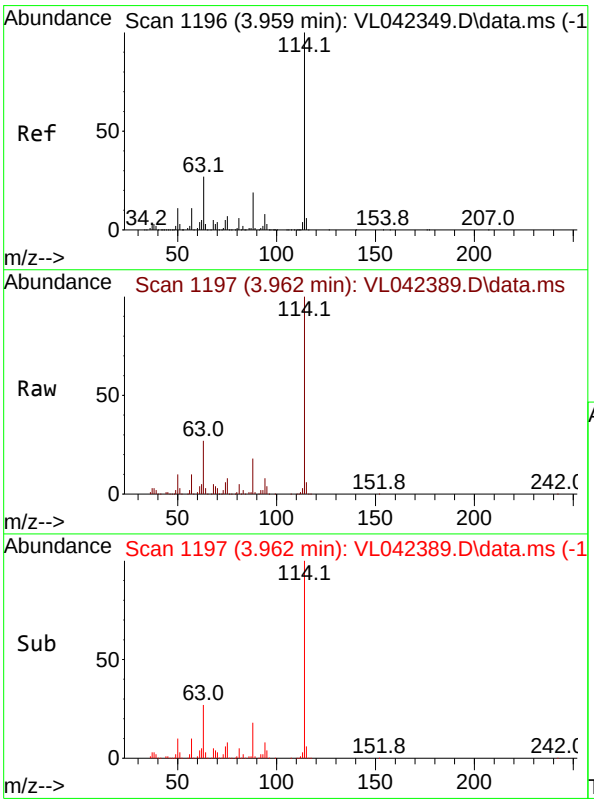
Ion	Ratio	Lower	Upper
45	100		
58	733.5	34.5	51.7#

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025DL2

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025

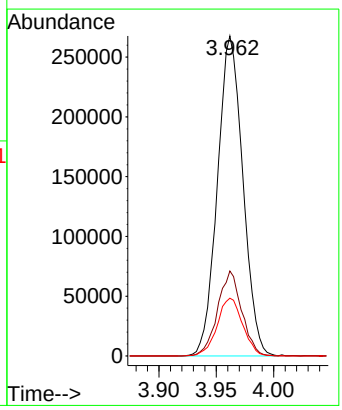


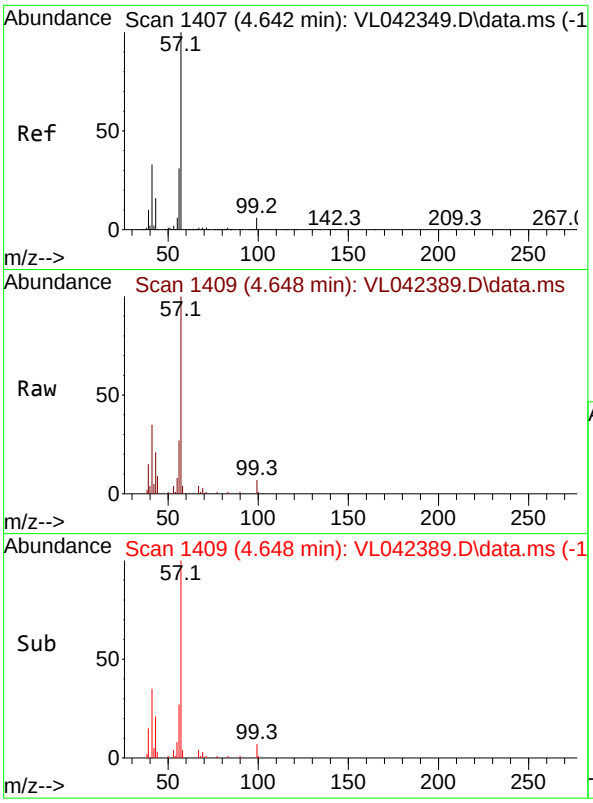


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.962 min Scan# 1197
Delta R.T. 0.003 min
Lab File: VL042389.D
Acq: 18 Apr 2025 13:43

Tgt Ion:114 Resp: 412843

Ion	Ratio	Lower	Upper
114	100		
63	25.2	21.8	32.6
88	18.1	15.5	23.3

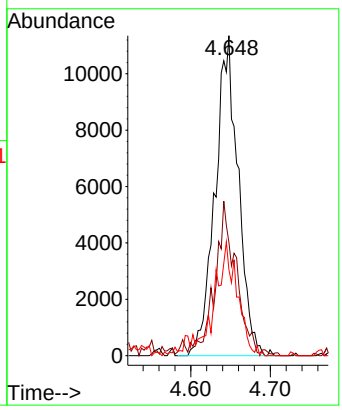




#44
2,2,4-Trimethylpentane
Concen: 0.297 ppbv m
RT: 4.648 min Scan# 14
Delta R.T. 0.006 min
Lab File: VL042389.D
Acq: 18 Apr 2025 13:43

Tgt Ion: 57 Resp: 2287(

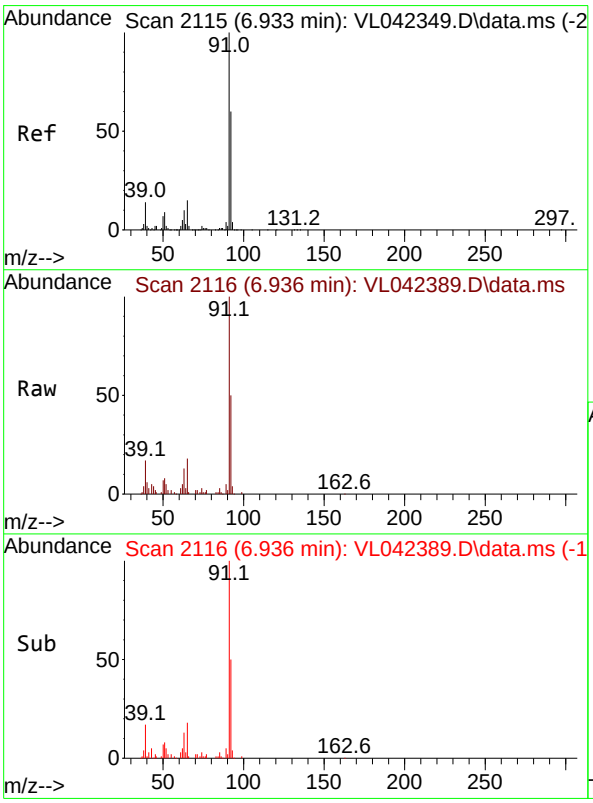
Ion	Ratio	Lower	Upper
57	100		
41	46.4	27.2	40.8#
56	0.0	25.7	38.5#



Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025DL2

Manual Integrations
APPROVED

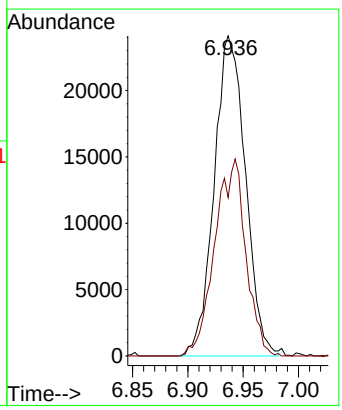
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025

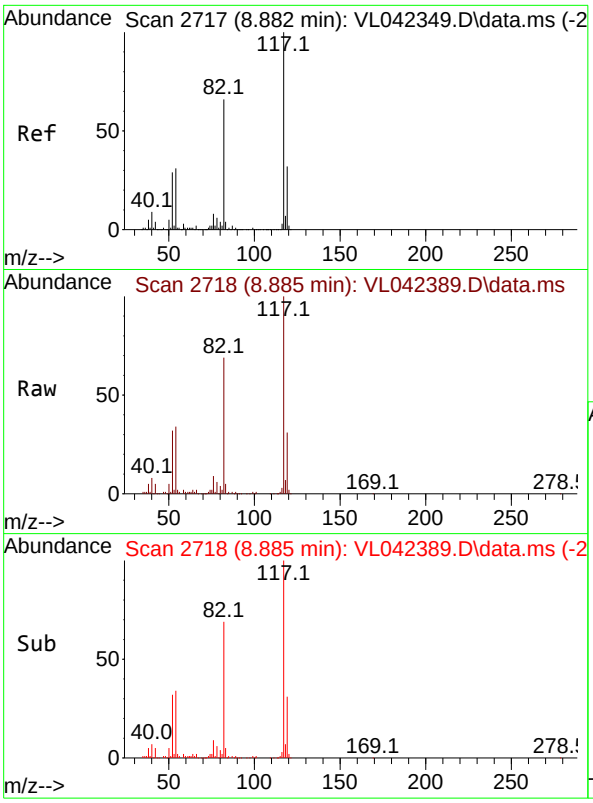


#53
Toluene
Concen: 0.888 ppbv
RT: 6.936 min Scan# 2116
Delta R.T. 0.003 min
Lab File: VL042389.D
Acq: 18 Apr 2025 13:43

Tgt Ion: 91 Resp: 47465

Ion	Ratio	Lower	Upper
91	100		
92	61.0	48.2	72.4

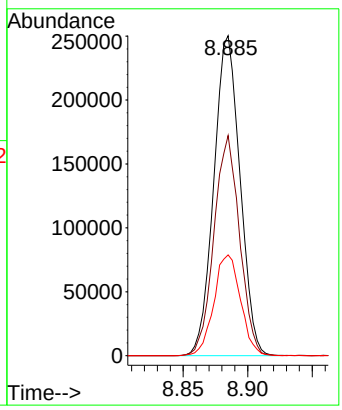




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.885 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042389.D
Acq: 18 Apr 2025 13:43

Tgt Ion:117 Resp: 353048

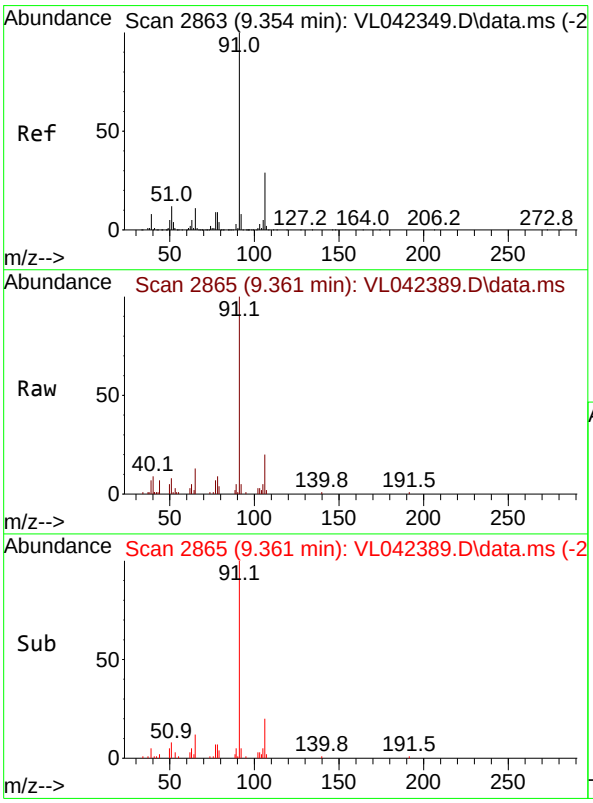
Ion	Ratio	Lower	Upper
117	100		
82	67.1	57.8	86.6
119	32.1	25.2	37.8



Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025DL2

Manual Integrations
APPROVED

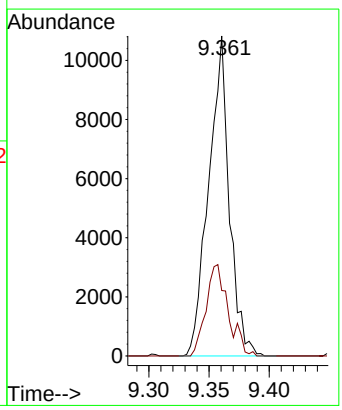
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025

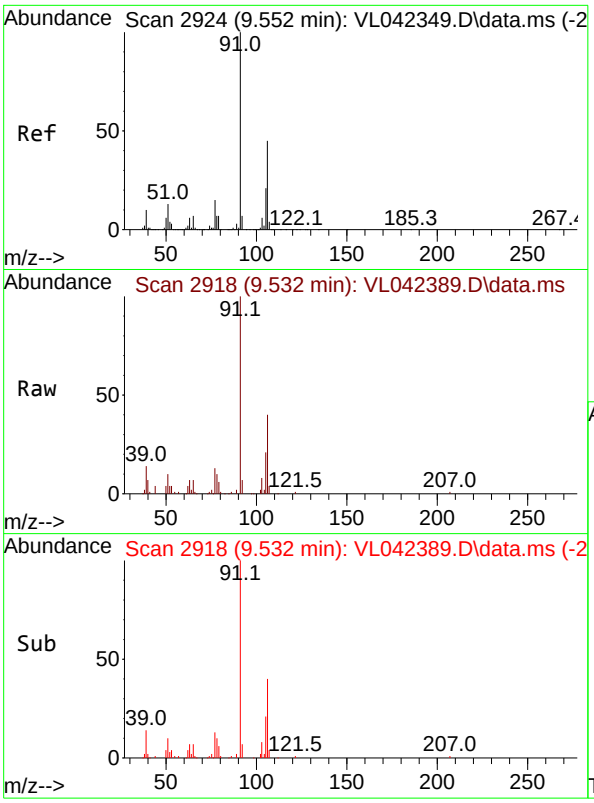


#58
Ethyl Benzene
Concen: 0.185 ppbv m
RT: 9.361 min Scan# 2865
Delta R.T. 0.006 min
Lab File: VL042389.D
Acq: 18 Apr 2025 13:43

Tgt Ion: 91 Resp: 12921

Ion	Ratio	Lower	Upper
91	100		
106	20.5	23.0	34.4#

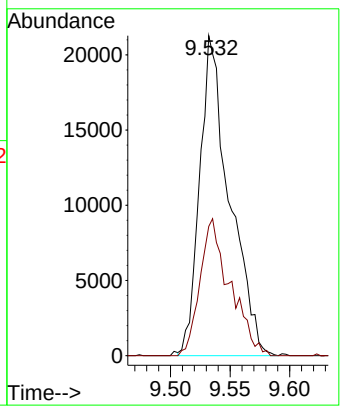




#59
m/p-Xylene
Concen: 0.659 ppbv
RT: 9.532 min Scan# 2
Delta R.T. -0.019 min
Lab File: VL042389.D
Acq: 18 Apr 2025 13:43

Tgt Ion: 91 Resp: 3712

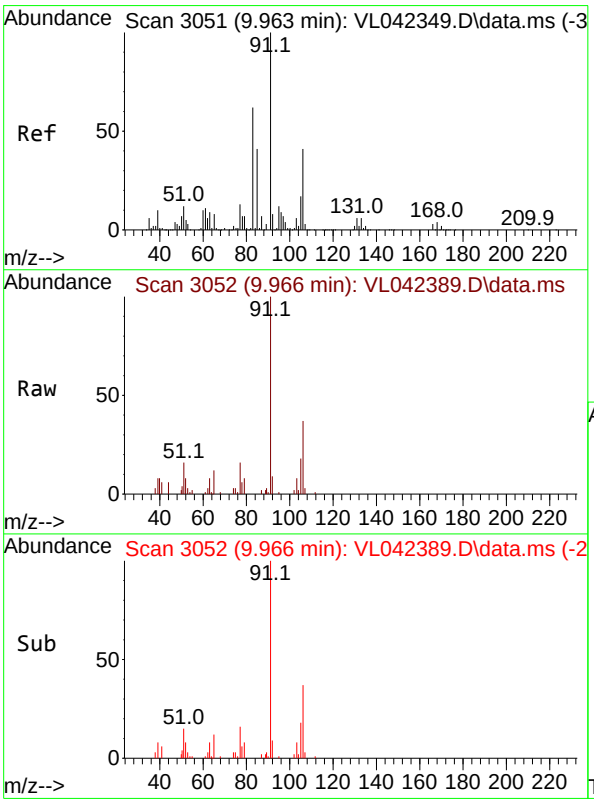
Ion	Ratio	Lower	Upper
91	100		
106	43.2	35.4	53.2



Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025DL2

Manual Integrations
APPROVED

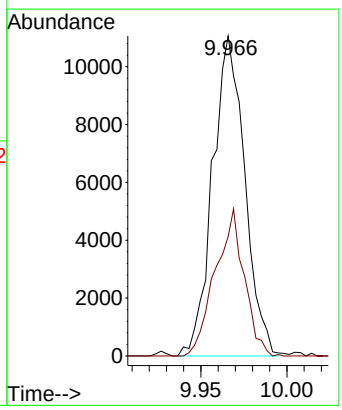
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025

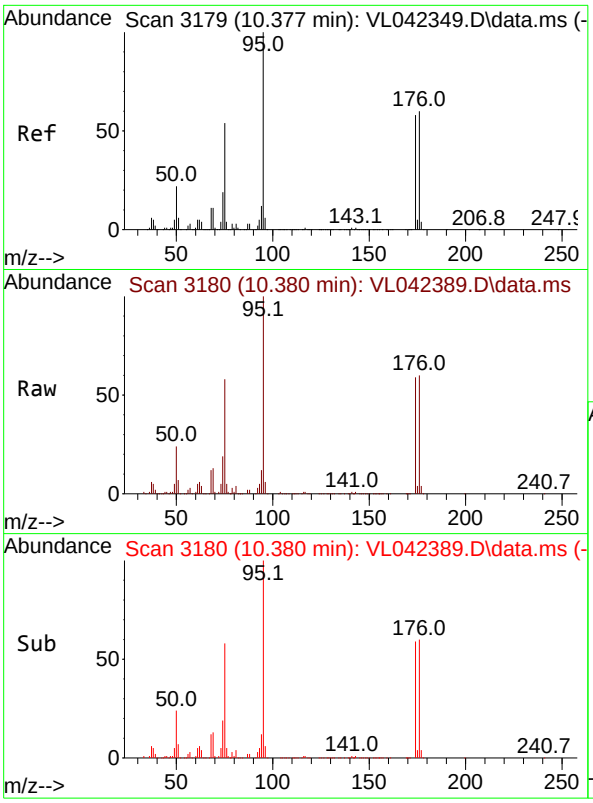


#60
o-Xylene
Concen: 0.254 ppbv
RT: 9.966 min Scan# 3052
Delta R.T. 0.003 min
Lab File: VL042389.D
Acq: 18 Apr 2025 13:43

Tgt Ion: 91 Resp: 14405

Ion	Ratio	Lower	Upper
91	100		
106	41.4	21.1	63.4

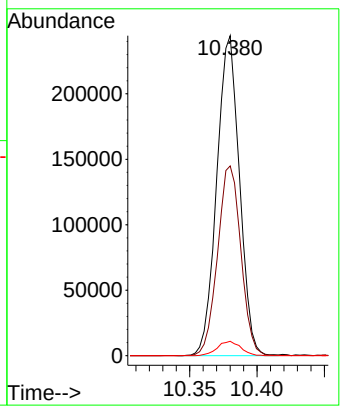




#68
1-Bromo-4-Fluorobenzene
Concen: 9.876 ppbv
RT: 10.380 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042389.D
Acq: 18 Apr 2025 13:43

Tgt Ion: 95 Resp: 28650

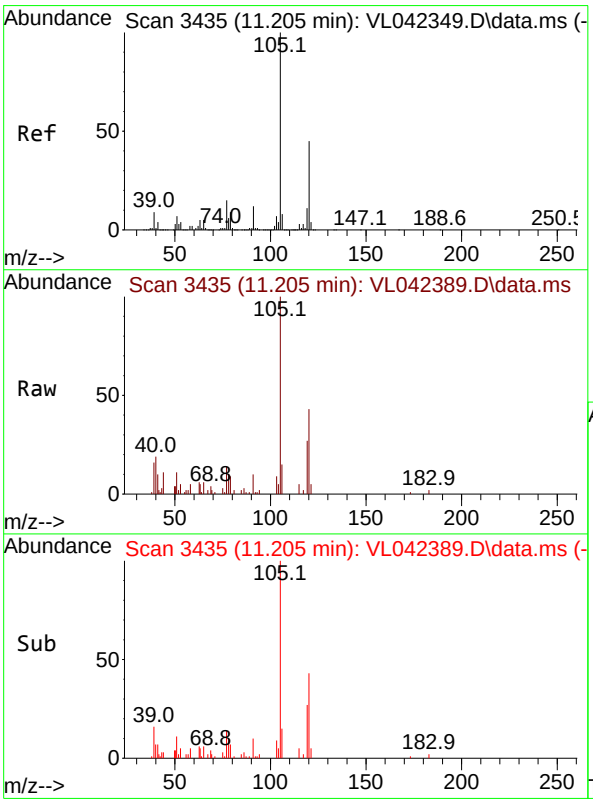
Ion	Ratio	Lower	Upper
95	100		
174	60.9	48.5	72.7
175	4.6	3.7	5.5



Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025DL2

Manual Integrations
APPROVED

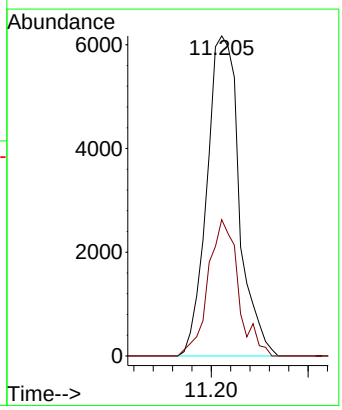
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025

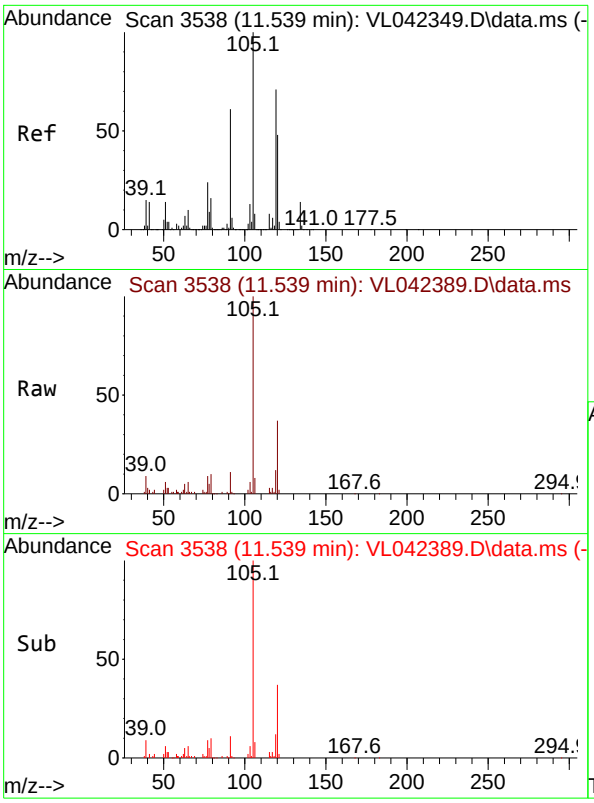


#73
1,3,5-Trimethylbenzene
Concen: 0.117 ppbv
RT: 11.205 min Scan# 3435
Delta R.T. -0.000 min
Lab File: VL042389.D
Acq: 18 Apr 2025 13:43

Tgt Ion:105 Resp: 7150

Ion	Ratio	Lower	Upper
105	100		
120	42.6	35.6	53.4

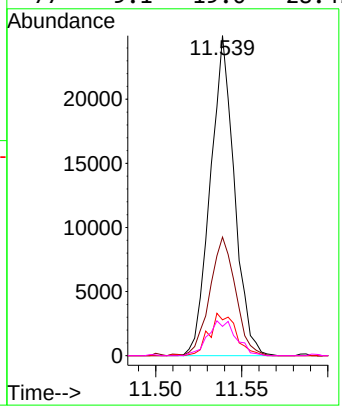




#74
1,2,4-Trimethylbenzene
Concen: 0.338 ppbv
RT: 11.539 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042389.D
Acq: 18 Apr 2025 13:43

Tgt Ion:105 Resp: 2421

Ion	Ratio	Lower	Upper
105	100		
120	37.1	38.1	57.1#
91	11.2	48.8	73.2#
77	9.1	19.0	28.4#



Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025DL2

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025

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:	04/01/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	IA-B2-1-03312025	SDG No.:	Q1726
Lab Sample ID:	Q1726-05	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
VL042370.D	1		04/17/25 22:19	VL041725

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.50	2.47		1.04	2.47	ug/m3
64-17-5	Ethanol	280	528	EQ	0.60	0.94	ug/m3
74-87-3	Chloromethane	0.65	1.34		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	0.25	1.40	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
593-60-2	Bromoethene	0.12	0.52	U	0.52	2.19	ug/m3
75-65-0	tert-Butyl alcohol	0.71	2.15		0.58	1.52	ug/m3
142-82-5	Heptane	4.80	19.7		0.45	2.05	ug/m3
67-63-0	Isopropyl Alcohol	36.7	90.2	E	0.17	1.23	ug/m3
75-35-4	1,1-Dichloroethene	0.14	0.56	U	0.56	1.98	ug/m3
67-64-1	Acetone	170	404	E	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	2.60	9.03		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	1.40	4.82		0.76	1.72	ug/m3
78-93-3	2-Butanone	1.20	3.54		0.35	1.47	ug/m3
56-23-5	Carbon Tetrachloride	0.090	0.57		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	0.030	0.16		0.050	0.16	ug/m3
540-84-1	2,2,4-Trimethylpentane	12.1	56.5		0.47	2.34	ug/m3
71-43-2	Benzene	1.30	4.15		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	30.8	116	E	0.41	1.88	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:	04/01/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	IA-B2-1-03312025	SDG No.:	Q1726
Lab Sample ID:	Q1726-05	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
VL042370.D	1		04/17/25 22:19	VL041725

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
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
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	0.20	1.36		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	6.20	26.9		0.52	2.17	ug/m3
179601-23-1	m/p-Xylene	21.6	93.8		0.91	4.34	ug/m3
95-47-6	o-Xylene	8.40	36.5		0.52	2.17	ug/m3
100-42-5	Styrene	0.38	1.62	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	0.80	4.14		0.57	2.59	ug/m3
108-67-8	1,3,5-Trimethylbenzene	3.40	16.7		0.54	2.46	ug/m3
95-63-6	1,2,4-Trimethylbenzene	9.30	45.7		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	0.15	0.90	J	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	0.36	1.89		0.42	0.52	ug/m3
622-96-8	4-Ethyltoluene	3.10	15.2		0.59	2.46	ug/m3
110-54-3	Hexane	3.90	13.7		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	10.0			70 (65) - 130 (135)	100%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	114000		2.787			
540-36-3	1,4-Difluorobenzene	331000		3.959			
3114-55-4	Chlorobenzene-d5	291000		8.882			
TENTITIVE IDENTIFIED COMPOUNDS							

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

Report of Analysis

Client:	Woodard & Curran	Date Collected:	04/01/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	IA-B2-1-03312025	SDG No.:	Q1726
Lab Sample ID:	Q1726-05	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
VL042370.D	1		04/17/25 22:19	VL041725

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
75-45-6	Chlorodifluoromethane	0.28		J		1.47	ppbv
115-07-1	Propene	3.10		J		1.49	ppbv
000106-97-8	Butane	10.0		J		1.62	ppbv
000071-23-8	1-Propanol	4.30		J		2.27	ppbv
000096-37-7	Cyclopentane, methyl-	4.50		J		3.23	ppbv
000591-76-4	Hexane, 2-methyl-	6.10		J		4.05	ppbv
000589-34-4	Hexane, 3-methyl-	6.90		J		4.27	ppbv
000108-87-2	Cyclohexane, methyl-	5.70		J		5.66	ppbv
000565-75-3	Pentane, 2,3,4-trimethyl-	8.30		J		6.83	ppbv
000589-81-1	Heptane, 3-methyl-	5.50		J		7.60	ppbv
016747-26-5	Hexane, 2,2,4-trimethyl-	4.10		J		7.89	ppbv
000111-65-9	Octane	5.90		J		8.30	ppbv
98-82-8	Isopropylbenzene	0.57		J		10.5	ppbv
103-65-1	n-propylbenzene	1.90		J		11.0	ppbv
135-98-8	sec-Butylbenzene	0.13		J		11.8	ppbv
99-87-6	p-Isopropyltoluene	0.24		J		11.9	ppbv
104-51-8	n-Butylbenzene	0.55		J		12.3	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 : VL042370.D
Acq On : 17 Apr 2025 22:19
Operator : SY/MD
Sample : Q1726-05
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 18 02:45:15 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-B2-1-03312025

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	113751	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.959	114	331268	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.882	117	291013	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.377	95	238323	9.966	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 99.700%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.499	85	10027	0.499	ppbv		94
3) Chlorodifluoromethane	1.473	51	5371m	0.281	ppbv		
4) Chloromethane	1.534	50	5131	0.645	ppbv		99
9) Propene	1.489	41	27016m	3.100	ppbv		
10) Heptane	4.978	43	117936	4.816	ppbv		99
11) Trichlorofluoromethane	1.878	101	4815	0.252	ppbv		98
13) Ethanol	1.722	45	389165	280.929	ppbv		76
15) Acetone	1.835	43	3179147	170.726	ppbv	#	41
17) tert-Butyl alcohol	2.046	59	16324m	0.707	ppbv		
19) Isopropyl Alcohol	1.887	45	379189	36.656	ppbv	#	33
20) Methylene Chloride	2.062	84	19314	2.648	ppbv		94
26) Hexane	2.826	57	72332	3.893	ppbv	#	40
30) Cyclohexane	3.852	84	20839m	1.387	ppbv		
32) 1,1,1-Trichloroethane	3.370	97	984m	0.033	ppbv		
34) 2-Butanone	2.560	43	30710	1.172	ppbv		97
35) Carbon Tetrachloride	3.761	117	2547	0.085	ppbv	#	65
36) Benzene	3.654	78	46043	1.289	ppbv		96
44) 2,2,4-Trimethylpentane	4.642	57	746896	12.103	ppbv		97
52) Tetrachloroethene	8.231	164	2745m	0.199	ppbv		
53) Toluene	6.933	91	1320170	30.789	ppbv		100
58) Ethyl Benzene	9.354	91	360069	6.245	ppbv		99
59) m/p-Xylene	9.532	91	1004159	21.619	ppbv		100
60) o-Xylene	9.966	91	393388	8.410	ppbv		99
61) Styrene	9.872	104	8391	0.376	ppbv		95
62) Isopropylbenzene	10.539	105	39493	0.575	ppbv		95
64) n-propylbenzene	10.989	120	32073	1.858	ppbv		96
67) sec-Butylbenzene	11.769	105	11229	0.128	ppbv	#	62
69) p-Isopropyltoluene	11.924	119	18095	0.237	ppbv		99
70) n-Butylbenzene	12.283	91	43525	0.548	ppbv	#	42
71) 2-Chlorotoluene	10.905	91	42867	0.796	ppbv		97
72) 4-Ethyltoluene	11.128	105	178872	3.128	ppbv	#	56
73) 1,3,5-Trimethylbenzene	11.206	105	173796	3.443	ppbv		98
74) 1,2,4-Trimethylbenzene	11.536	105	550459	9.336	ppbv	#	63
76) 1,4-Dichlorobenzene	11.672	146	4575	0.149	ppbv		87
79) Naphthalene	13.513	128	25684	0.364	ppbv		97

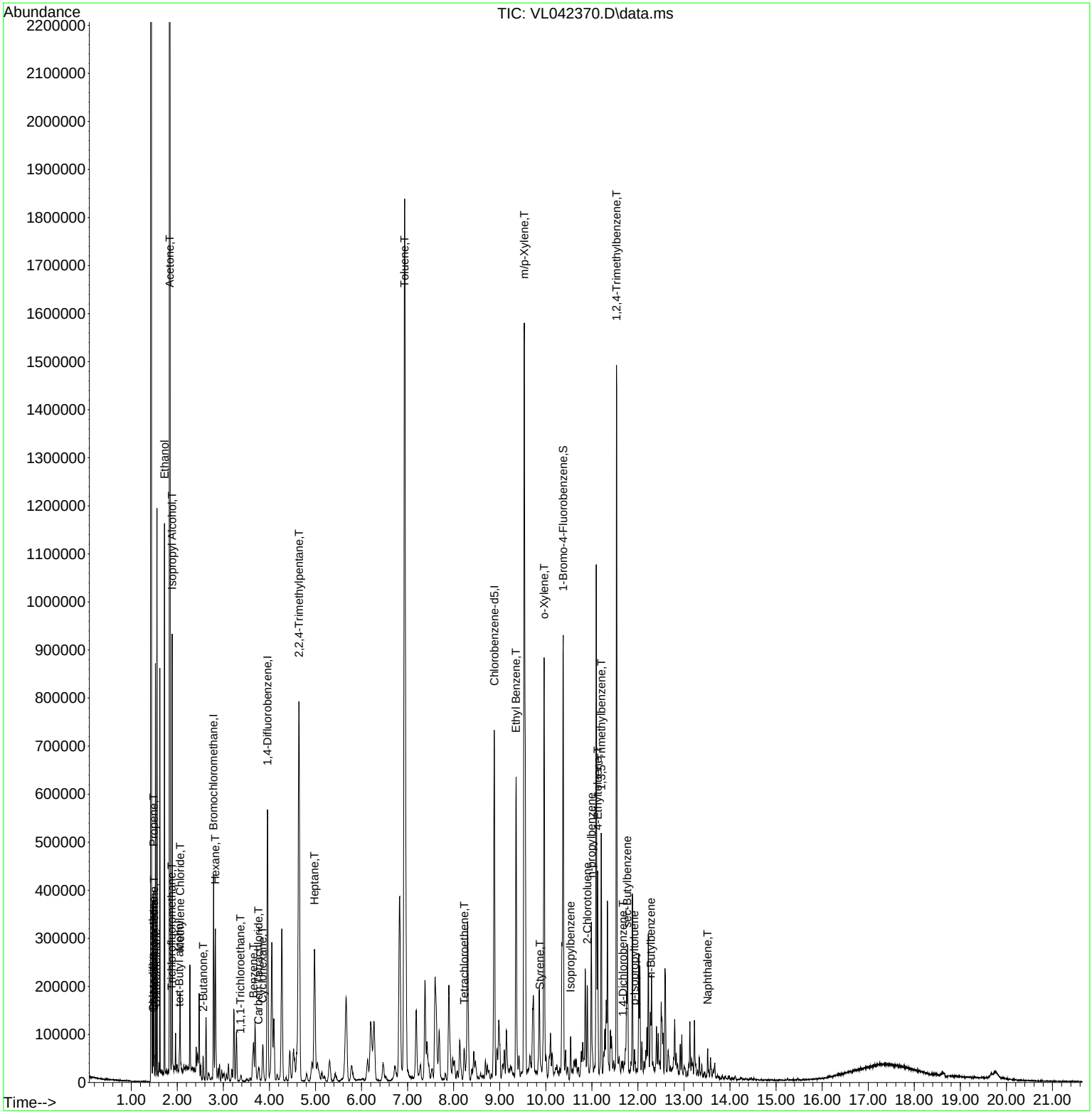
(#) = qualifier out of range (m) = manual integration (+) = signals summed

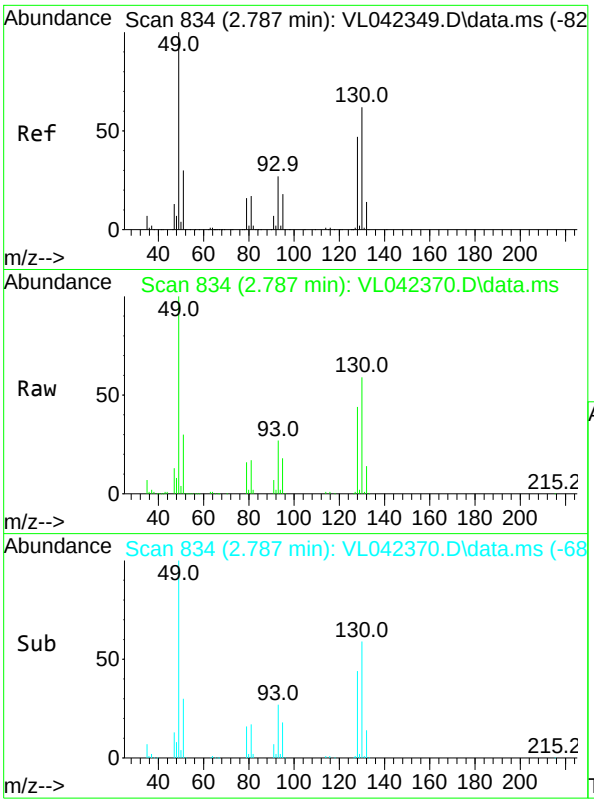
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042370.D
Acq On : 17 Apr 2025 22:19
Operator : SY/MD
Sample : Q1726-05
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 18 02:45:15 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-B2-1-03312025

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

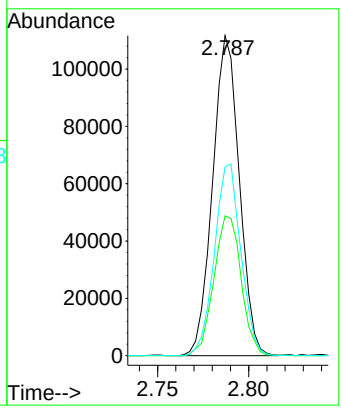




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 8
Delta R.T. 0.000 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

Tgt Ion: 49 Resp: 11375

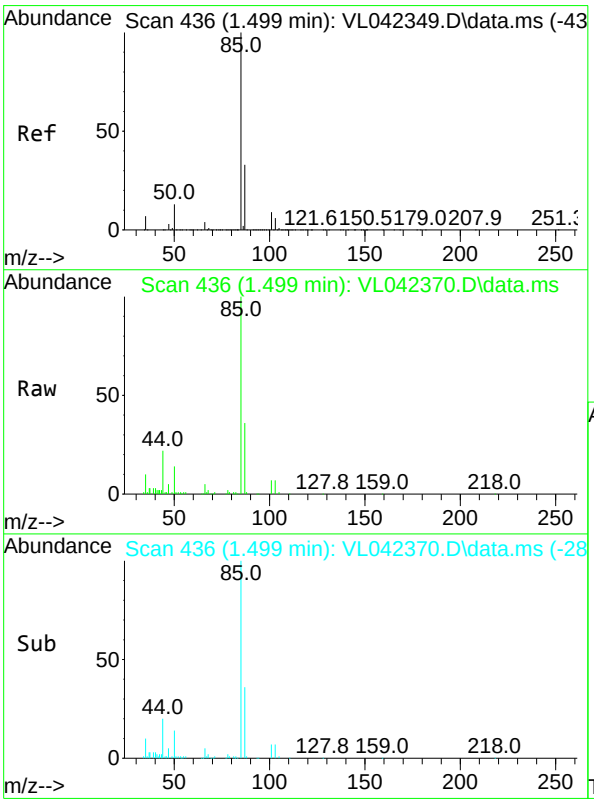
Ion	Ratio	Lower	Upper
49	100		
128	44.7	22.8	68.4
130	59.5	29.3	88.0



Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025

Manual Integrations
APPROVED

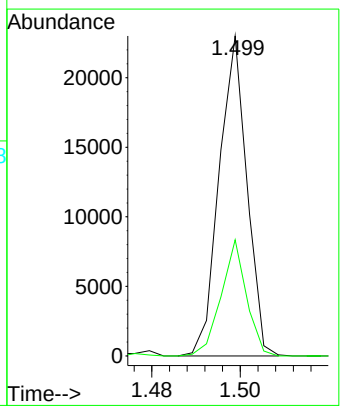
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

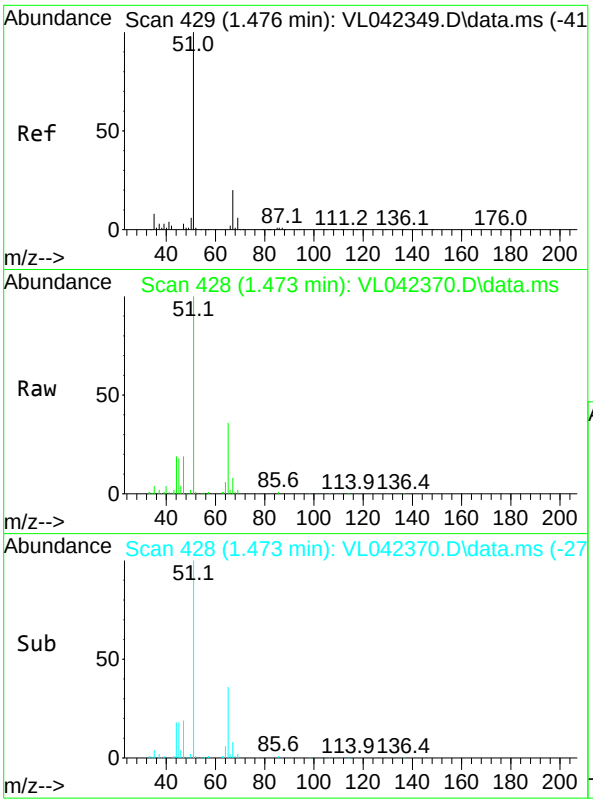


#2
Dichlorodifluoromethane
Concen: 0.499 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.000 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

Tgt Ion: 85 Resp: 10027

Ion	Ratio	Lower	Upper
85	100		
87	36.3	26.6	39.8

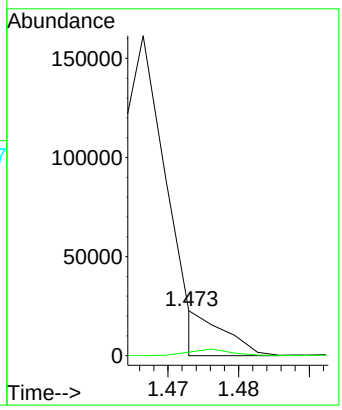




#3
Chlorodifluoromethane
Concen: 0.281 ppbv m
RT: 1.473 min Scan# 4
Delta R.T. -0.003 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

Tgt Ion: 51 Resp: 537

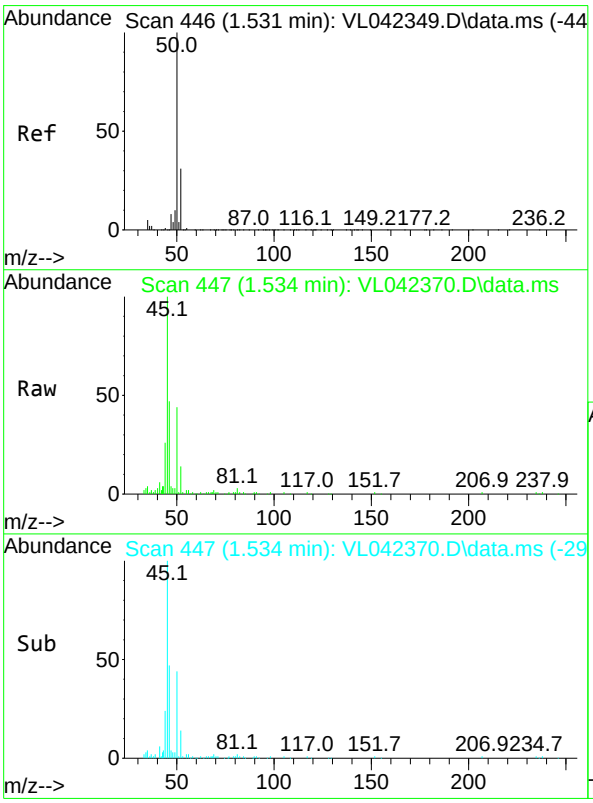
Ion	Ratio	Lower	Upper
51	100		
67	29.8	16.2	24.4



Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025

Manual Integrations
APPROVED

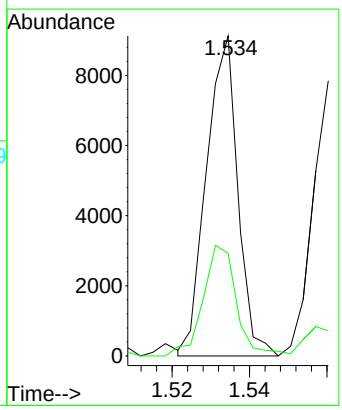
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

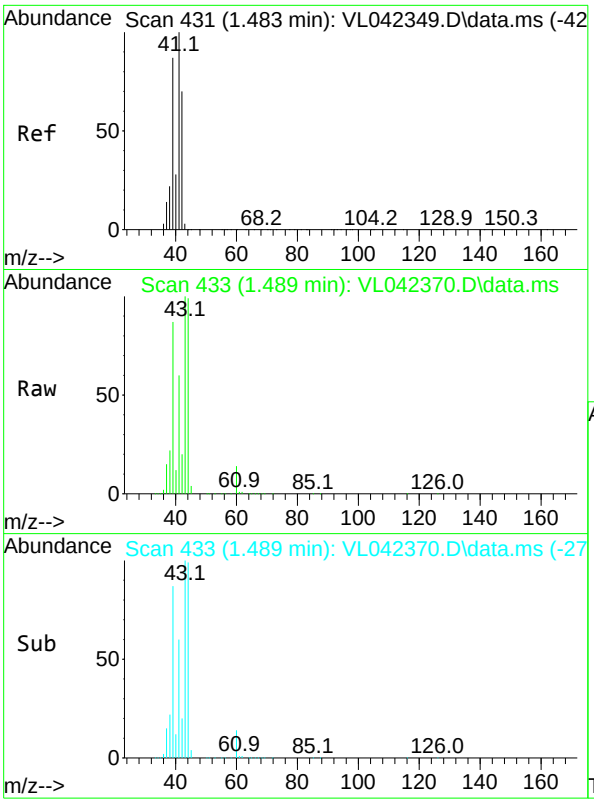


#4
Chloromethane
Concen: 0.645 ppbv
RT: 1.534 min Scan# 447
Delta R.T. 0.003 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

Tgt Ion: 50 Resp: 5131

Ion	Ratio	Lower	Upper
50	100		
52	31.2	24.7	37.1

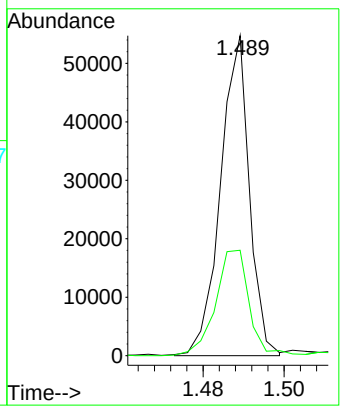




#9
Propene
Concen: 3.100 ppbv m
RT: 1.489 min Scan# 4
Delta R.T. 0.007 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

Tgt Ion: 41 Resp: 2701

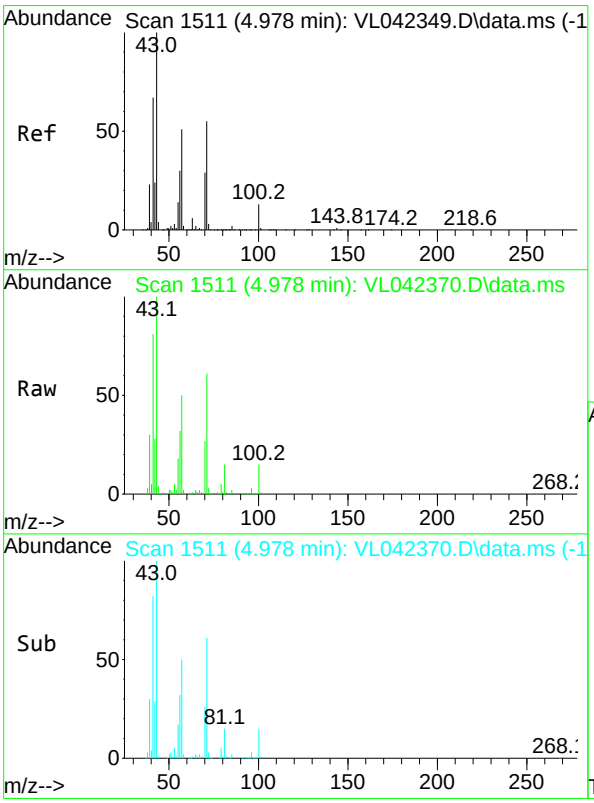
Ion	Ratio	Lower	Upper
41	100		
42	333.1	56.2	84.4



Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025

Manual Integrations
APPROVED

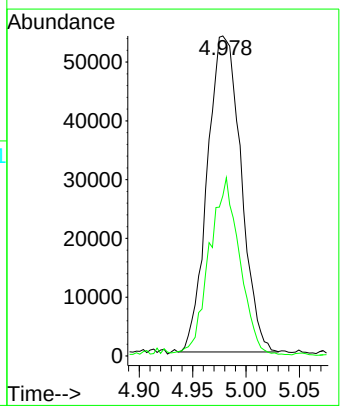
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

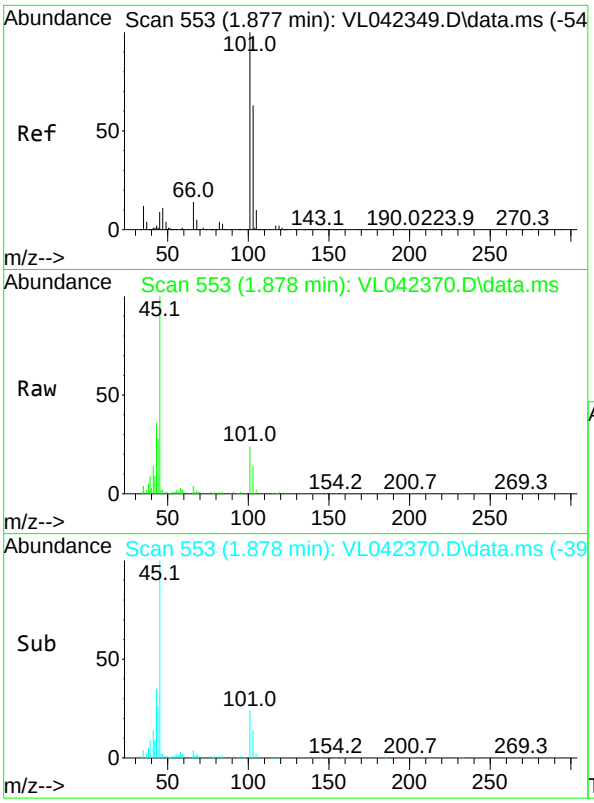


#10
Heptane
Concen: 4.816 ppbv
RT: 4.978 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

Tgt Ion: 43 Resp: 117936

Ion	Ratio	Lower	Upper
43	100		
57	50.5	39.9	59.9





#11
Trichlorofluoromethane
Concen: 0.252 ppbv
RT: 1.878 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

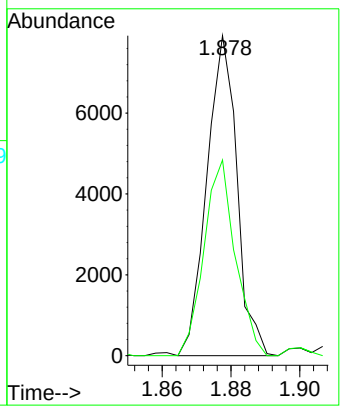
Tgt Ion:101 Resp: 481

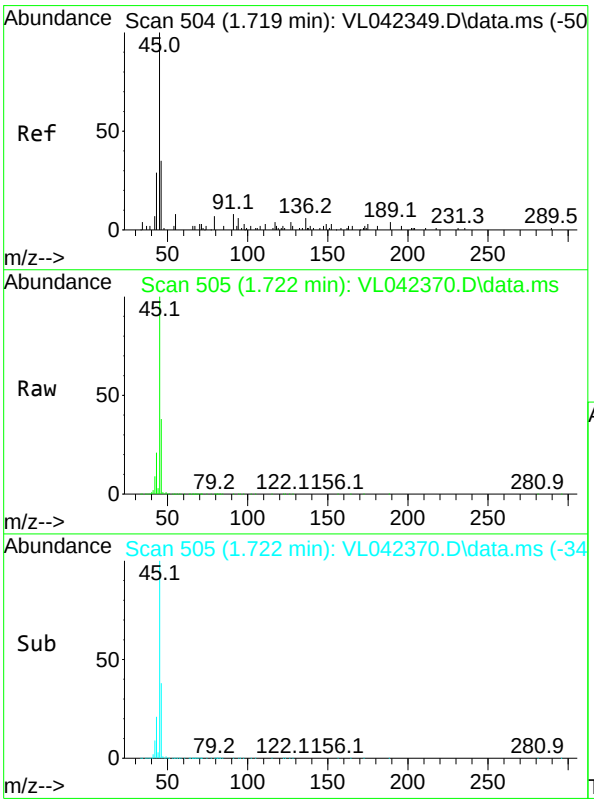
Ion	Ratio	Lower	Upper
101	100		
103	61.2	50.1	75.1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025

Manual Integrations
APPROVED

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

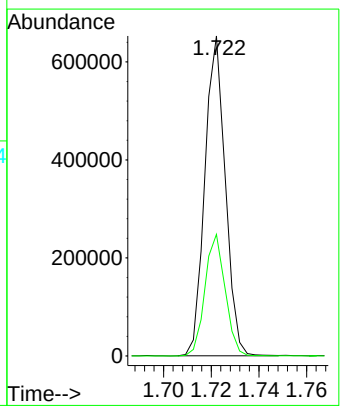


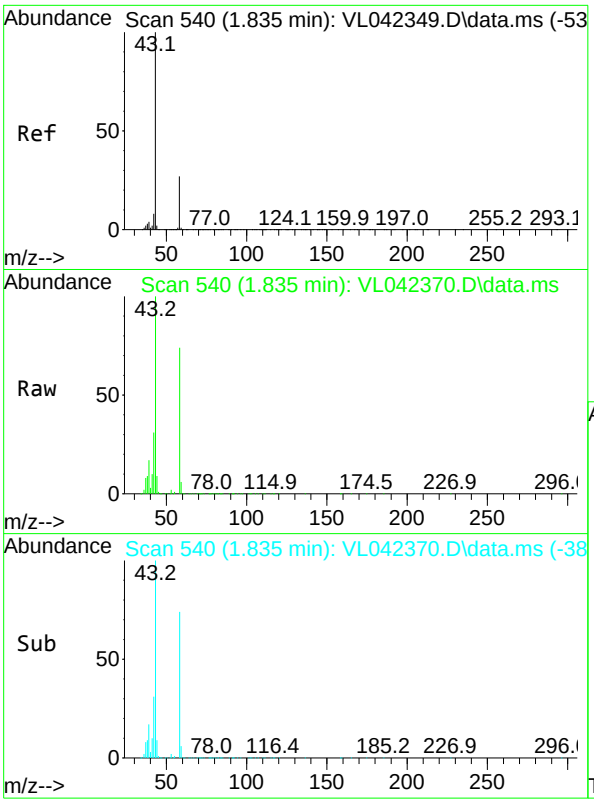


#13
Ethanol
Concen: 280.929 ppbv
RT: 1.722 min Scan# 505
Delta R.T. 0.003 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

Tgt Ion: 45 Resp: 389165

Ion	Ratio	Lower	Upper
45	100		
46	37.8	21.9	87.7

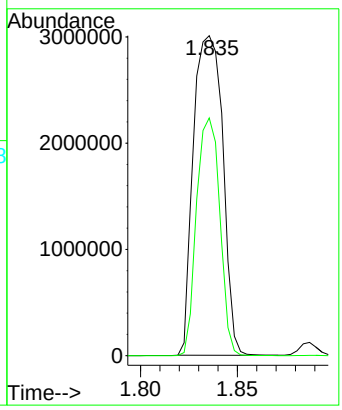




#15
Acetone
Concen: 170.726 ppbv
RT: 1.835 min Scan# 54
Delta R.T. 0.000 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

Tgt Ion: 43 Resp: 317914

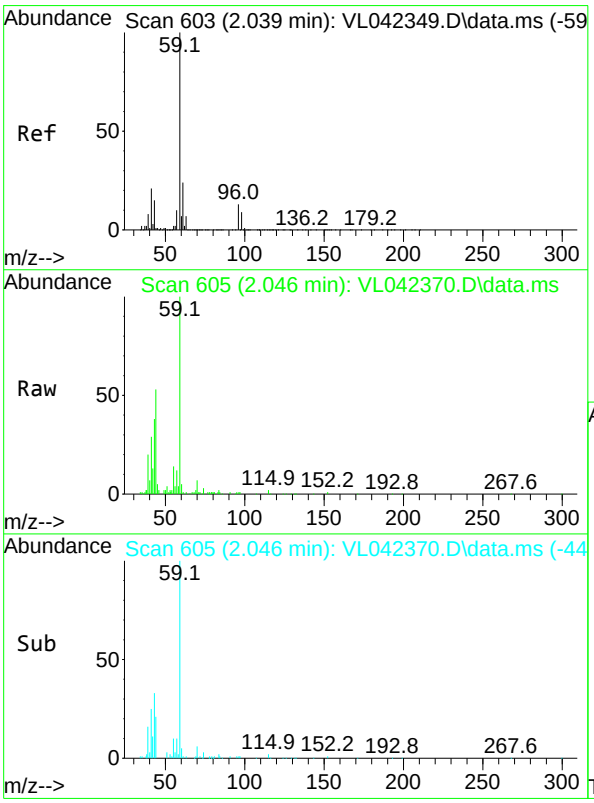
Ion	Ratio	Lower	Upper
43	100		
58	59.0	22.4	33.6#



Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025

Manual Integrations
APPROVED

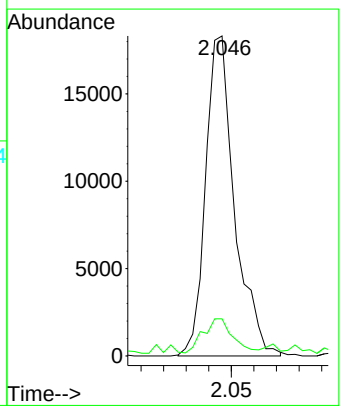
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

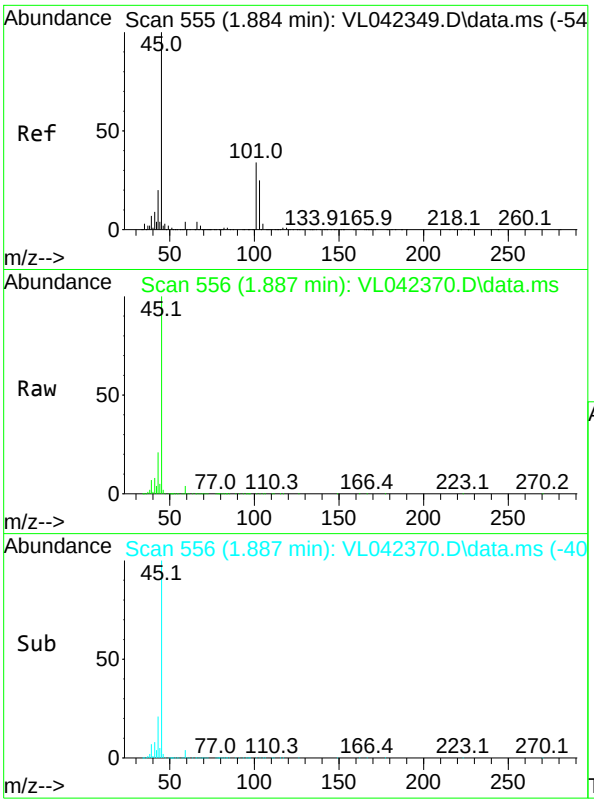


#17
tert-Butyl alcohol
Concen: 0.707 ppbv m
RT: 2.046 min Scan# 605
Delta R.T. 0.007 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

Tgt Ion: 59 Resp: 16324

Ion	Ratio	Lower	Upper
59	100		
57	25.6	8.7	13.1#

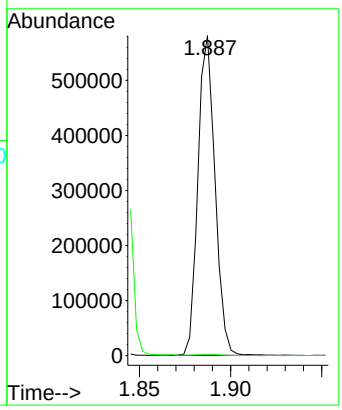




#19
Isopropyl Alcohol
Concen: 36.656 ppbv
RT: 1.887 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

Tgt Ion: 45 Resp: 37918

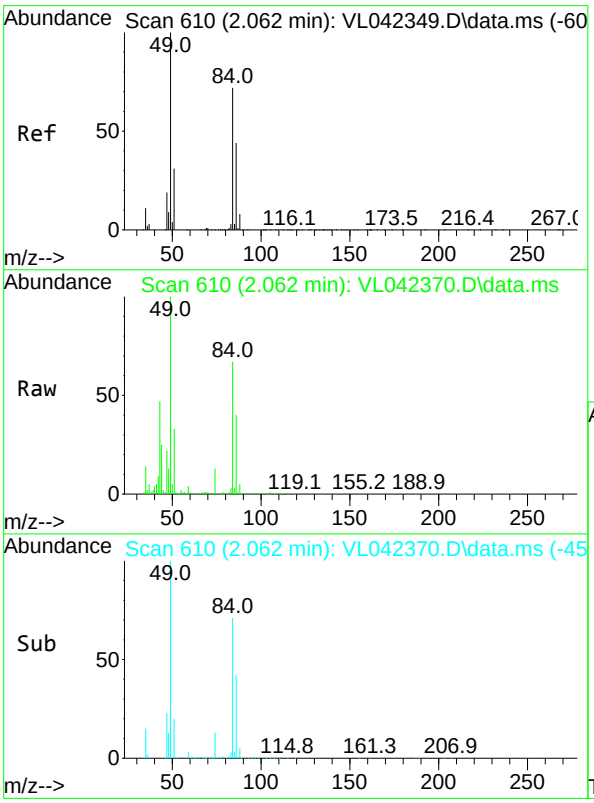
Ion	Ratio	Lower	Upper
45	100		
58	0.0	34.5	51.7



Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025

Manual Integrations
APPROVED

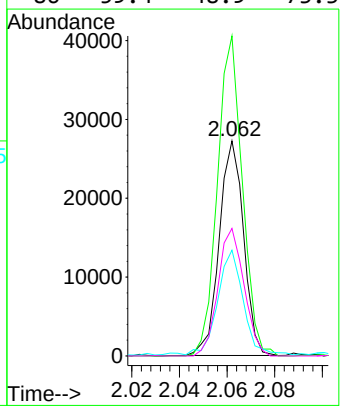
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

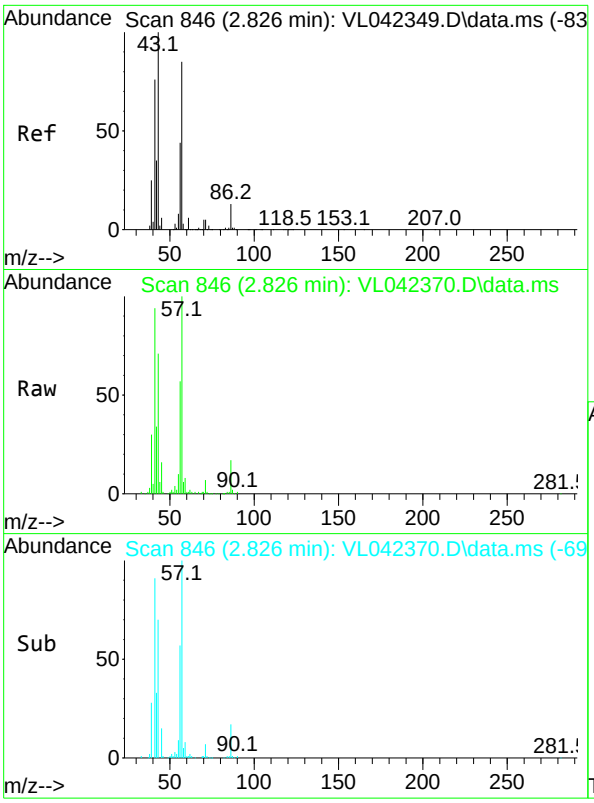


#20
Methylene Chloride
Concen: 2.648 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.000 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

Tgt Ion: 84 Resp: 19314

Ion	Ratio	Lower	Upper
84	100		
49	149.1	111.6	167.4
51	48.0	35.1	52.7
86	59.4	48.9	73.3

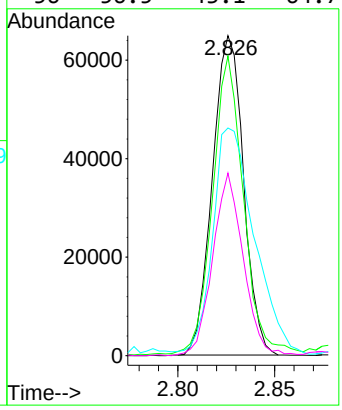




#26
Hexane
Concen: 3.893 ppbv
RT: 2.826 min Scan# 84
Delta R.T. 0.000 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

Tgt Ion: 57 Resp: 7233

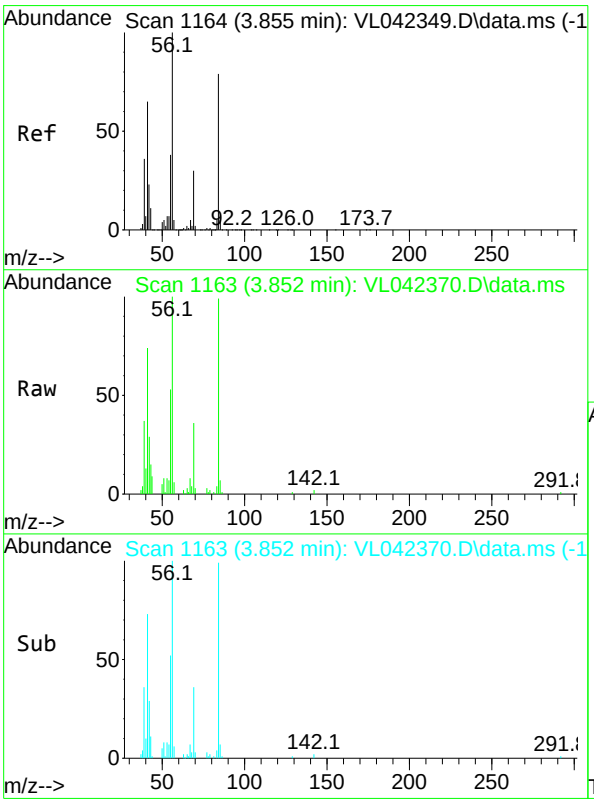
Ion	Ratio	Lower	Upper
57	100		
41	93.6	77.9	116.9
43	95.6	208.4	312.6#
56	56.5	43.1	64.7



Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025

Manual Integrations
APPROVED

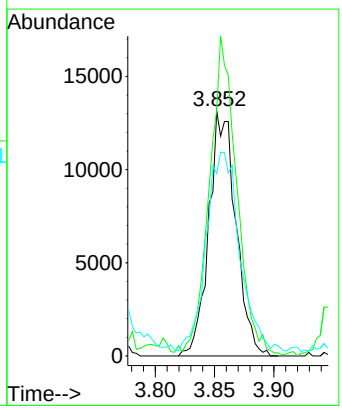
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

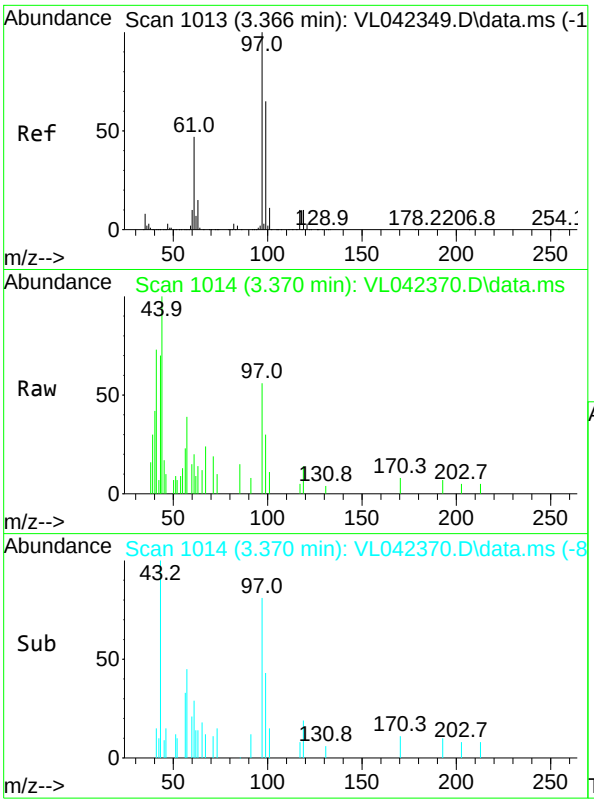


#30
Cyclohexane
Concen: 1.387 ppbv m
RT: 3.852 min Scan# 1163
Delta R.T. -0.003 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

Tgt Ion: 84 Resp: 20839

Ion	Ratio	Lower	Upper
84	100		
56	132.3	101.0	151.4
41	102.7	67.4	101.0#

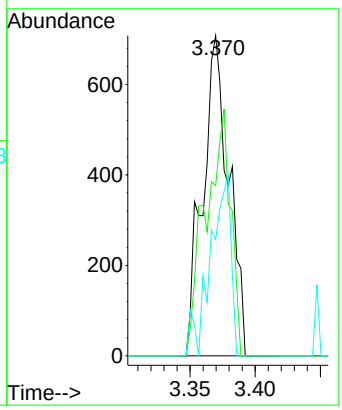




#32
1,1,1-Trichloroethane
Concen: 0.033 ppbv m
RT: 3.370 min Scan# 1
Delta R.T. 0.003 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

Tgt Ion: 97 Resp: 98

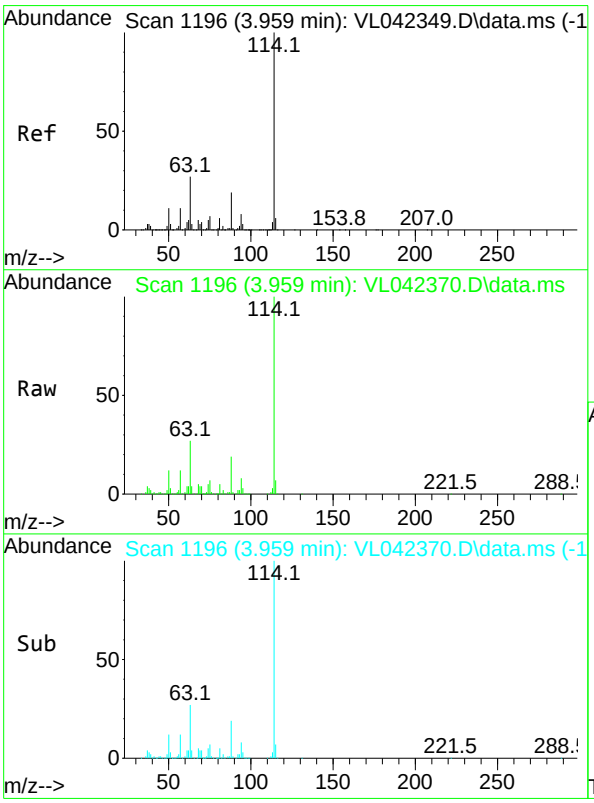
Ion	Ratio	Lower	Upper
97	100		
99	0.0	51.0	76.4#
61	0.0	38.8	58.2#



Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025

Manual Integrations
APPROVED

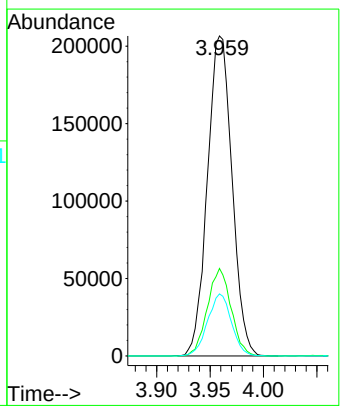
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

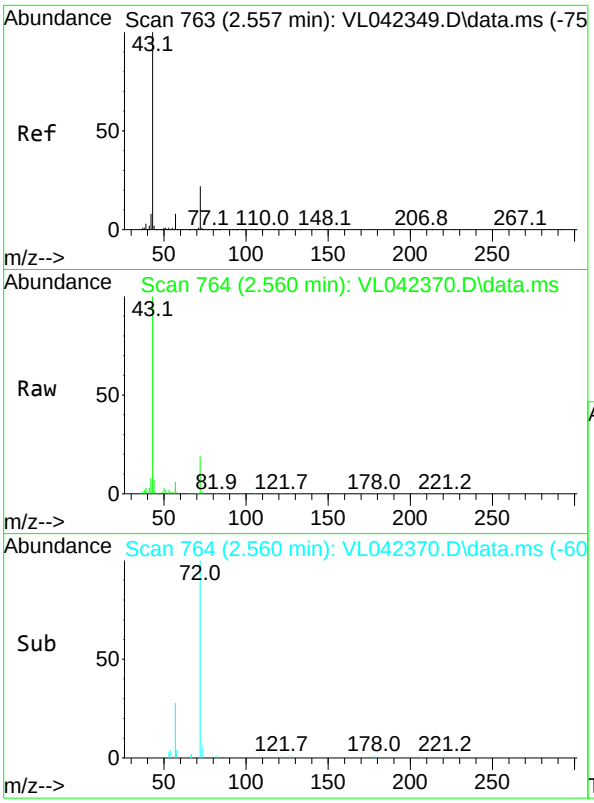


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.959 min Scan# 1196
Delta R.T. 0.000 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

Tgt Ion:114 Resp: 331268

Ion	Ratio	Lower	Upper
114	100		
63	26.3	21.8	32.6
88	18.8	15.5	23.3

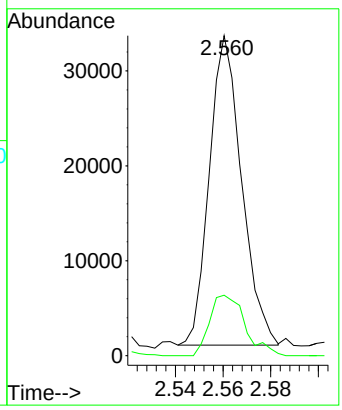




#34
2-Butanone
Concen: 1.172 ppbv
RT: 2.560 min Scan# 7
Delta R.T. 0.003 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

Tgt Ion: 43 Resp: 3071

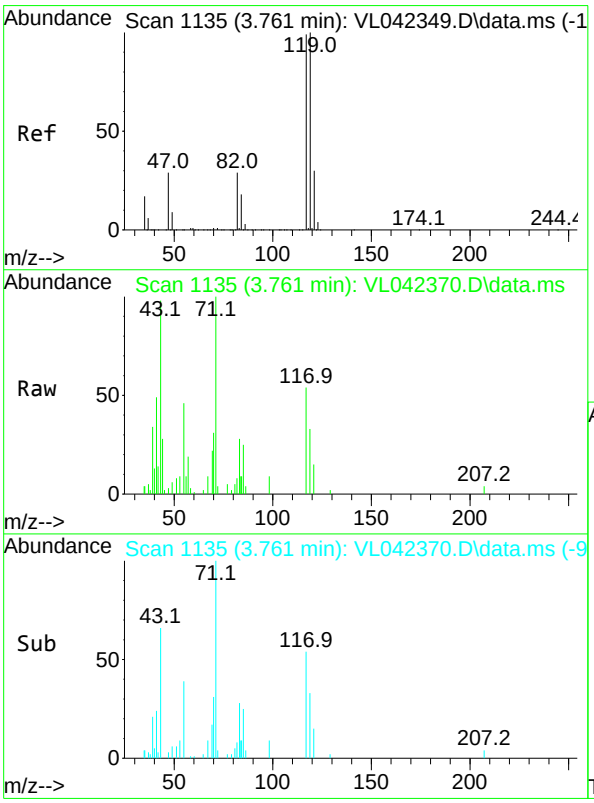
Ion	Ratio	Lower	Upper
43	100		
72	21.4	18.2	27.2



Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025

Manual Integrations
APPROVED

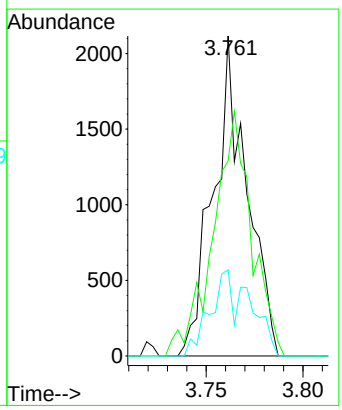
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

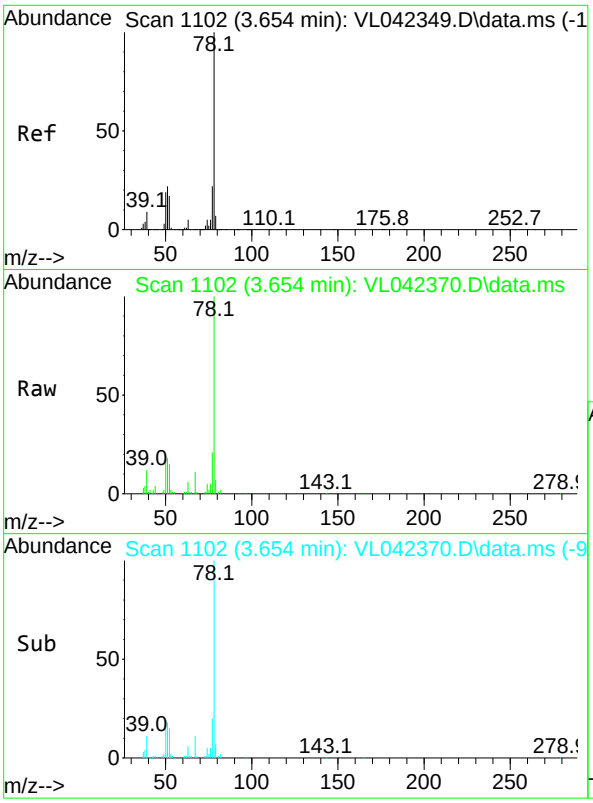


#35
Carbon Tetrachloride
Concen: 0.085 ppbv
RT: 3.761 min Scan# 1135
Delta R.T. 0.000 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

Tgt Ion:117 Resp: 2547

Ion	Ratio	Lower	Upper
117	100		
119	56.7	80.5	120.7#
121	26.9	24.2	36.2

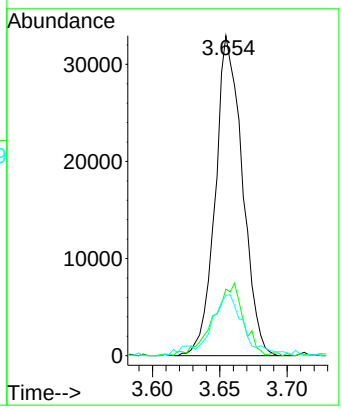




#36
Benzene
Concen: 1.289 ppbv
RT: 3.654 min Scan# 1
Delta R.T. 0.000 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

Tgt Ion: 78 Resp: 4604

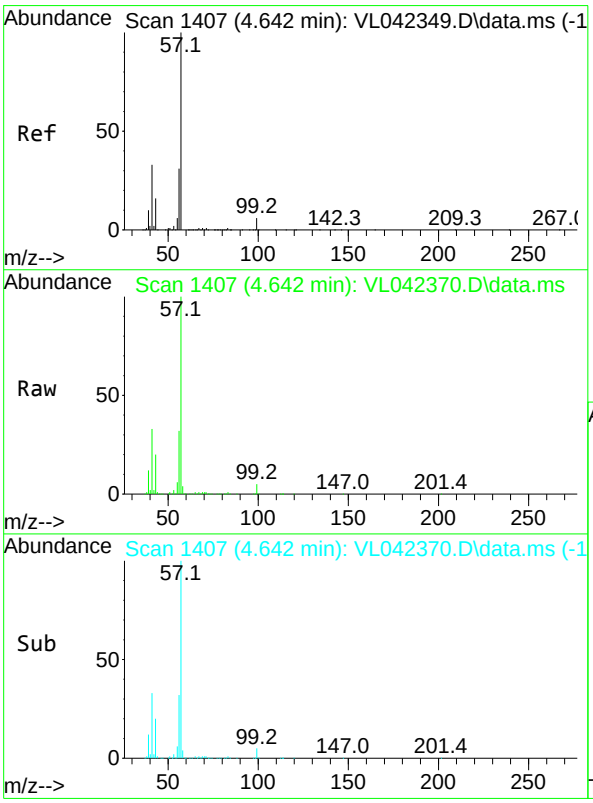
Ion	Ratio	Lower	Upper
78	100		
77	20.0	17.4	26.0
50	17.7	15.5	23.3



Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025

Manual Integrations
APPROVED

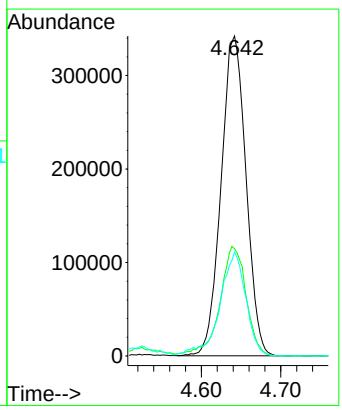
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

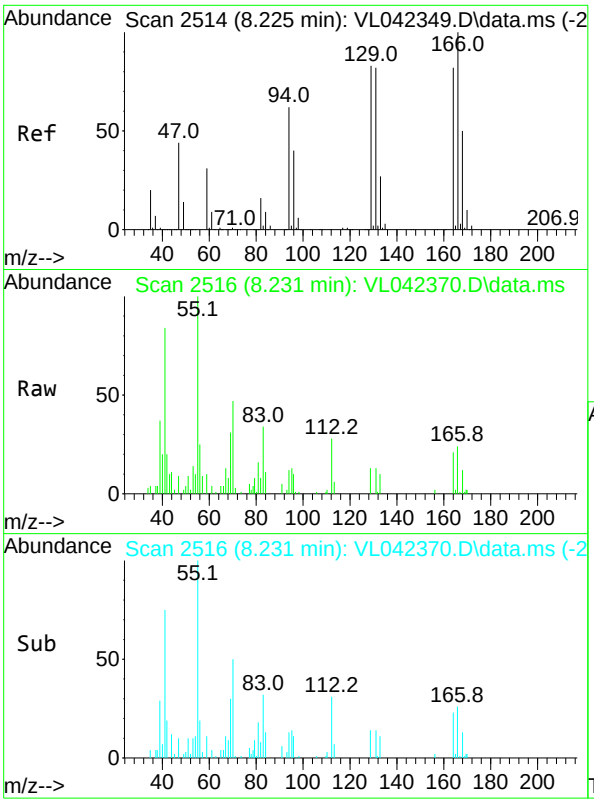


#44
2,2,4-Trimethylpentane
Concen: 12.103 ppbv
RT: 4.642 min Scan# 1407
Delta R.T. 0.000 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

Tgt Ion: 57 Resp: 746896

Ion	Ratio	Lower	Upper
57	100		
41	36.1	27.2	40.8
56	33.9	25.7	38.5

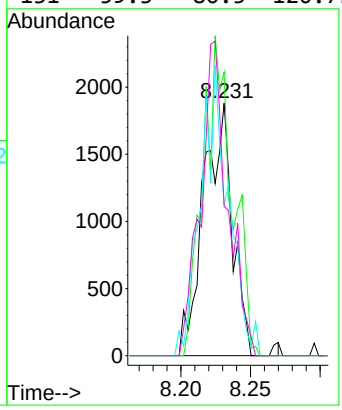




#52
Tetrachloroethene
Concen: 0.199 ppbv m
RT: 8.231 min Scan# 2
Delta R.T. 0.007 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

Tgt Ion:164 Resp: 274

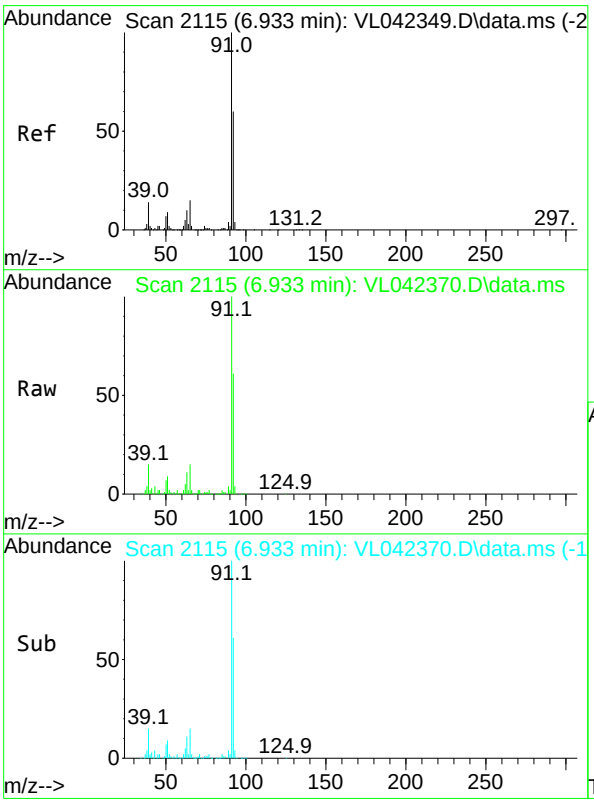
Ion	Ratio	Lower	Upper
164	100		
166	112.4	98.2	147.2
129	60.0	81.8	122.8#
131	59.3	80.5	120.7#



Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025

Manual Integrations
APPROVED

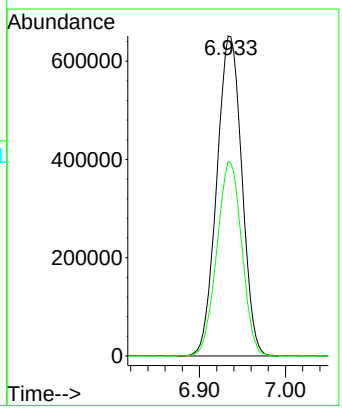
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

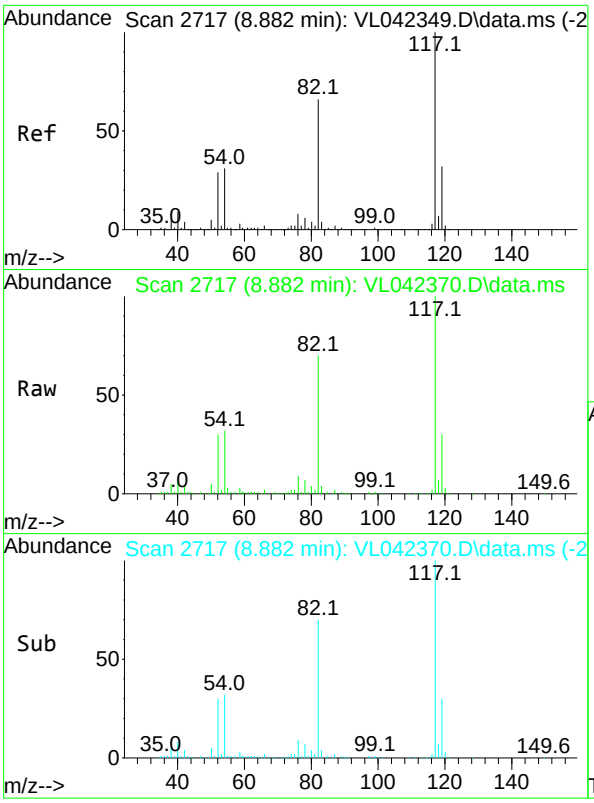


#53
Toluene
Concen: 30.789 ppbv
RT: 6.933 min Scan# 2115
Delta R.T. 0.000 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

Tgt Ion: 91 Resp: 1320170

Ion	Ratio	Lower	Upper
91	100		
92	60.4	48.2	72.4

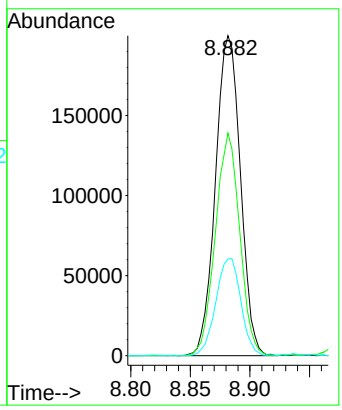




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.882 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

Tgt Ion:117 Resp: 29101

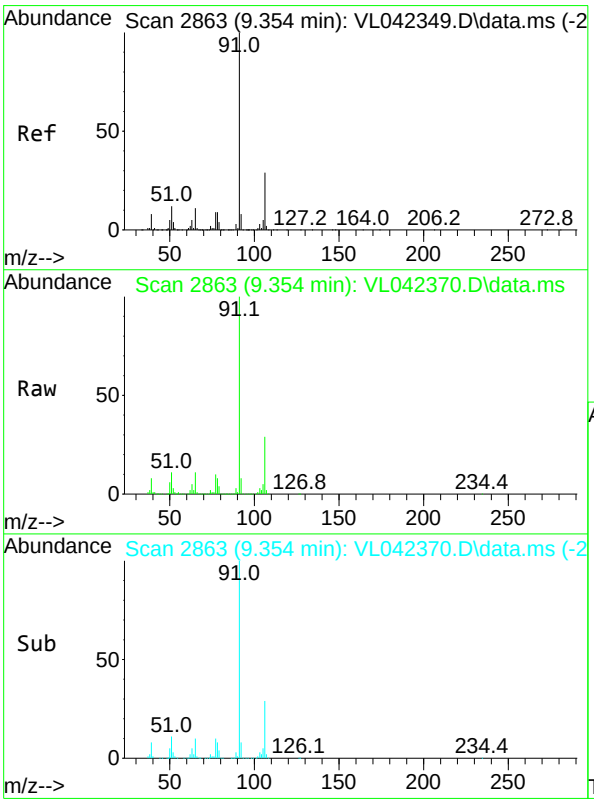
Ion	Ratio	Lower	Upper
117	100		
82	67.8	57.8	86.6
119	30.5	25.2	37.8



Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025

Manual Integrations
APPROVED

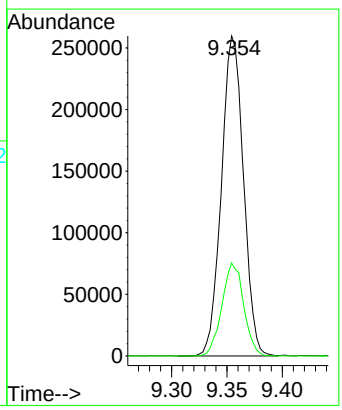
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

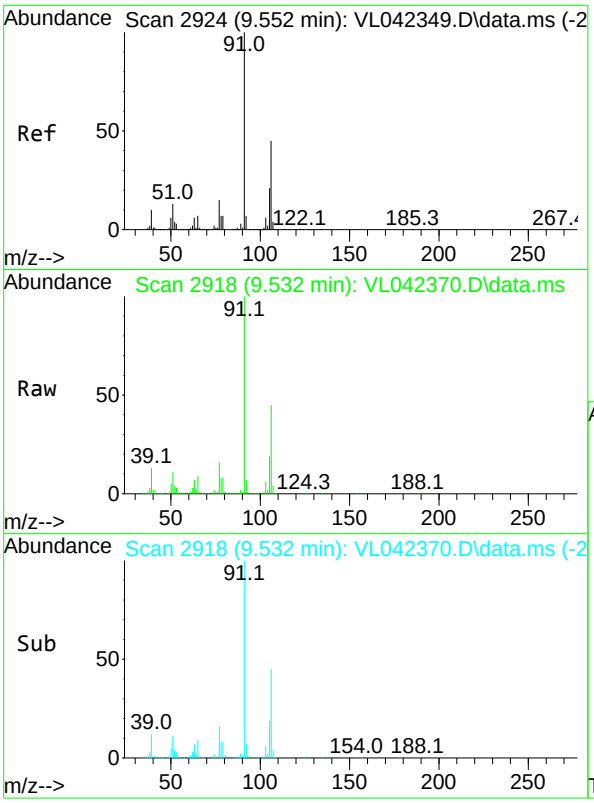


#58
Ethyl Benzene
Concen: 6.245 ppbv
RT: 9.354 min Scan# 2863
Delta R.T. 0.000 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

Tgt Ion: 91 Resp: 360069

Ion	Ratio	Lower	Upper
91	100		
106	29.1	23.0	34.4





#59
m/p-Xylene
Concen: 21.619 ppbv
RT: 9.532 min Scan# 2
Delta R.T. -0.019 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

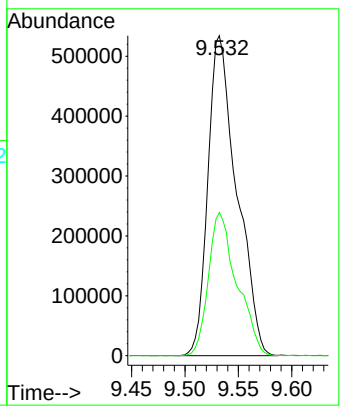
Tgt Ion: 91 Resp: 100415

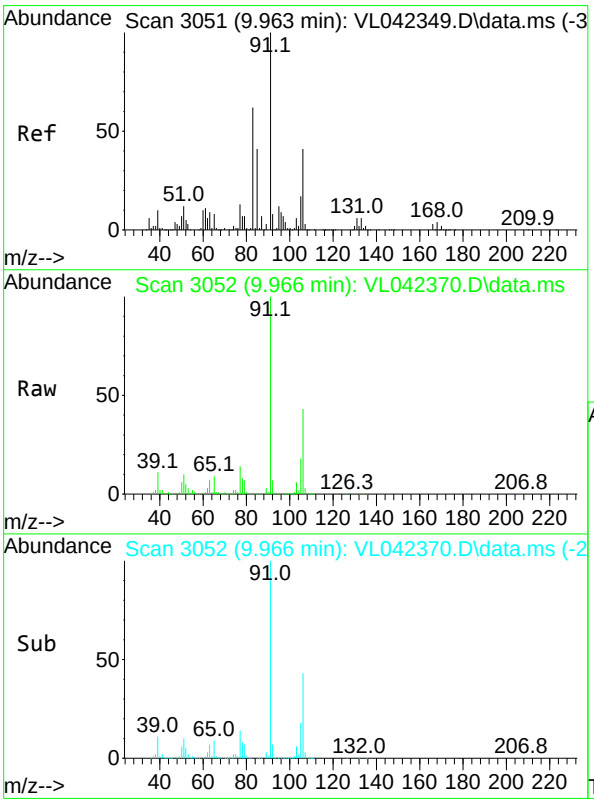
Ion	Ratio	Lower	Upper
91	100		
106	44.2	35.4	53.2

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025

Manual Integrations
APPROVED

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

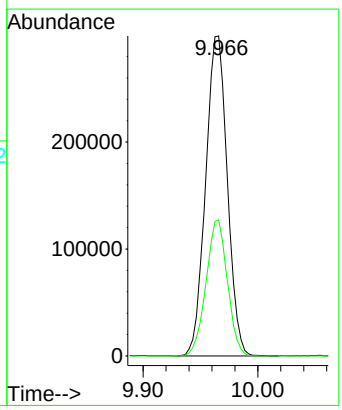


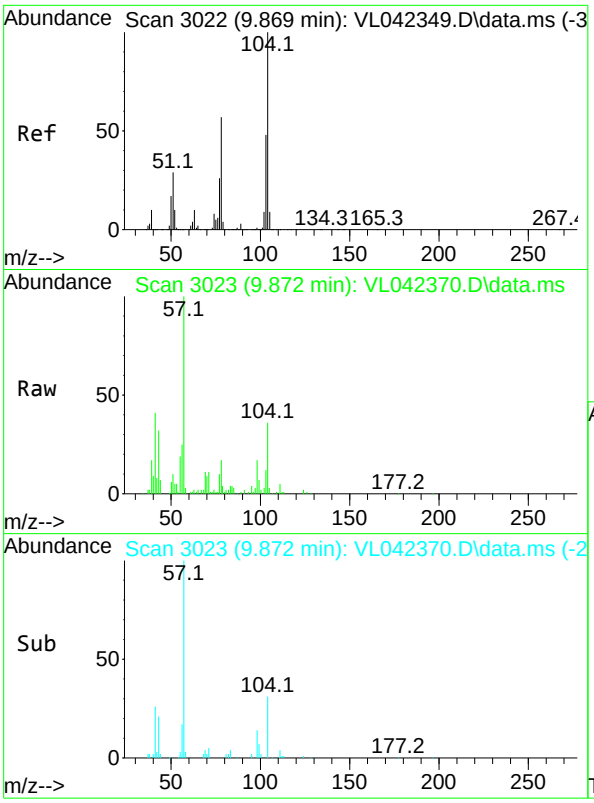


#60
o-Xylene
Concen: 8.410 ppbv
RT: 9.966 min Scan# 3052
Delta R.T. 0.003 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

Tgt Ion: 91 Resp: 393388

Ion	Ratio	Lower	Upper
91	100		
106	41.9	21.1	63.4

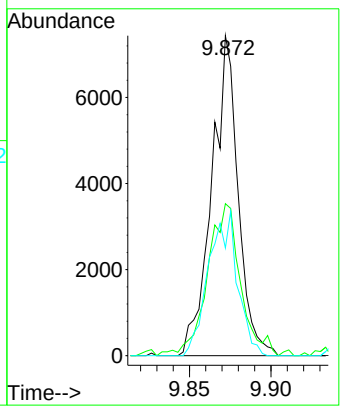




#61
Styrene
Concen: 0.376 ppbv
RT: 9.872 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

Tgt Ion:104 Resp: 839

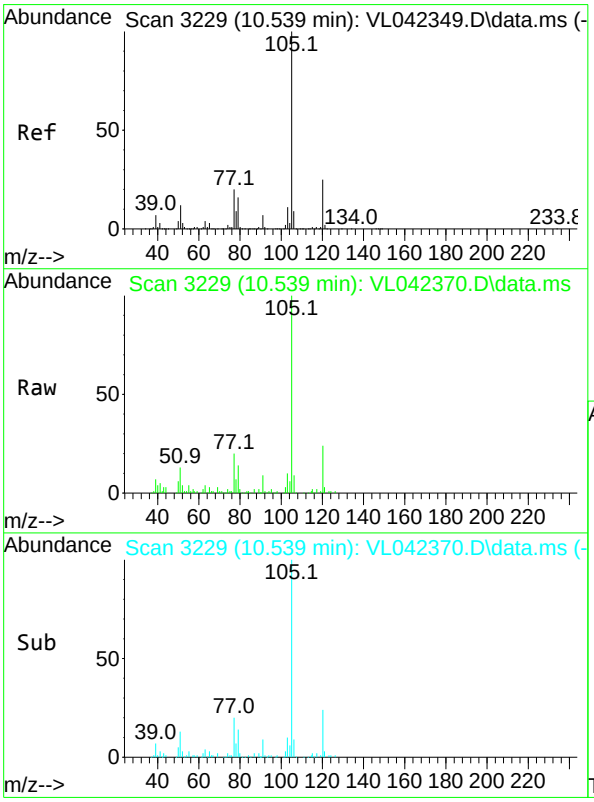
Ion	Ratio	Lower	Upper
104	100		
78	60.3	44.6	66.8
103	49.1	37.4	56.0



Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025

Manual Integrations
APPROVED

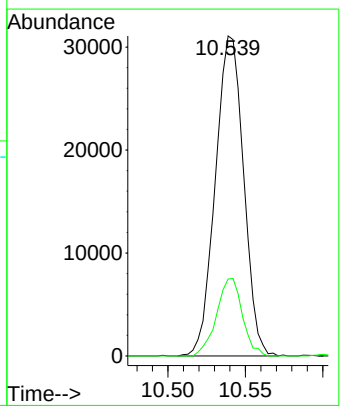
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

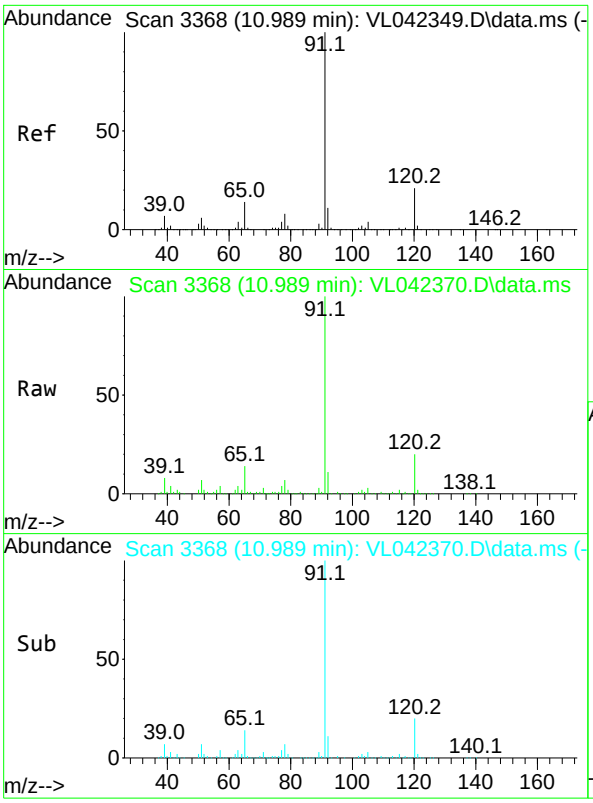


#62
Isopropylbenzene
Concen: 0.575 ppbv
RT: 10.539 min Scan# 3229
Delta R.T. 0.000 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

Tgt Ion:105 Resp: 39493

Ion	Ratio	Lower	Upper
105	100		
120	22.1	19.8	29.8

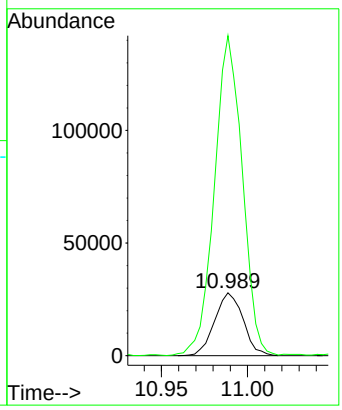




#64
n-propylbenzene
Concen: 1.858 ppbv
RT: 10.989 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

Tgt Ion:120 Resp: 3207

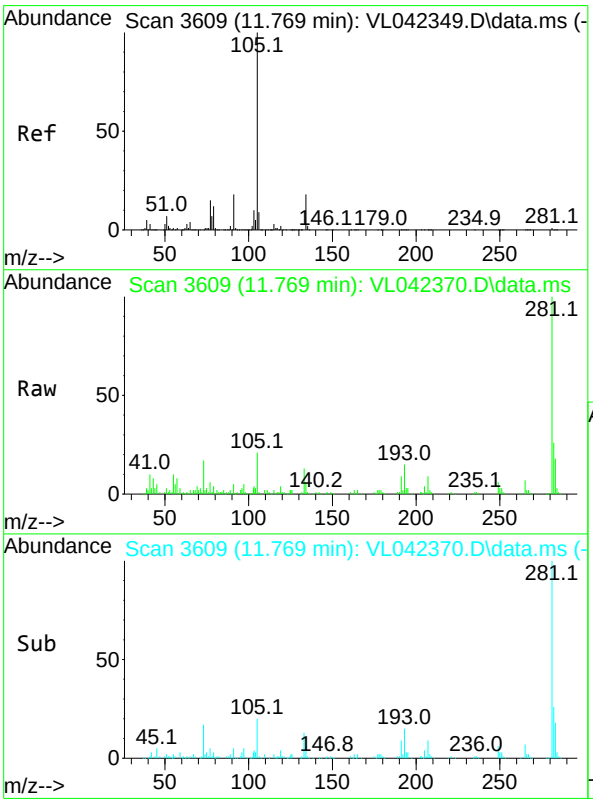
Ion	Ratio	Lower	Upper
120	100		
91	500.9	392.4	588.6



Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025

Manual Integrations
APPROVED

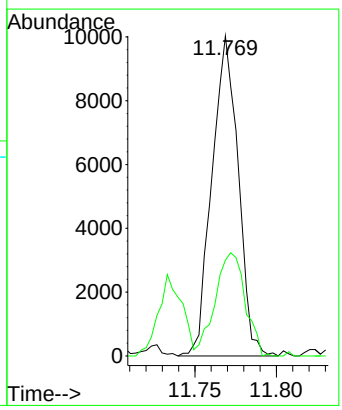
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

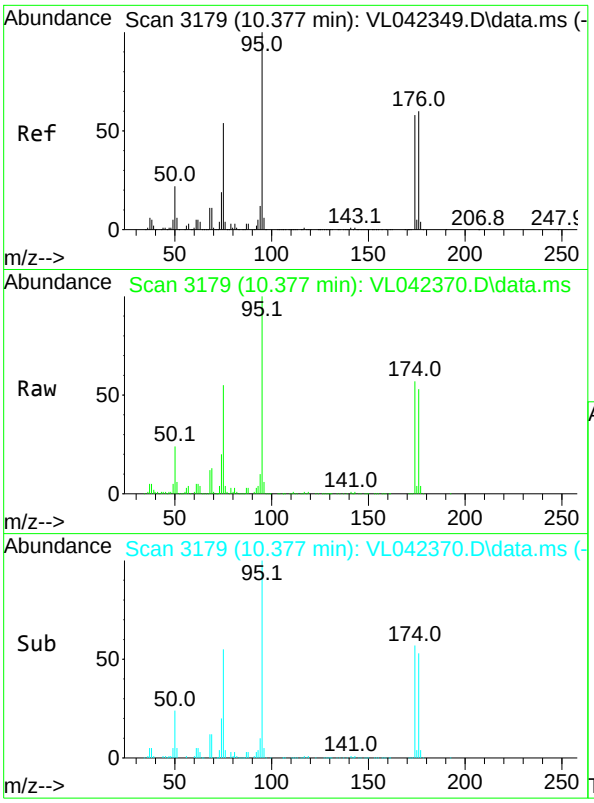


#67
sec-Butylbenzene
Concen: 0.128 ppbv
RT: 11.769 min Scan# 3609
Delta R.T. 0.000 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

Tgt Ion:105 Resp: 11229

Ion	Ratio	Lower	Upper
105	100		
134	35.1	14.6	21.8#

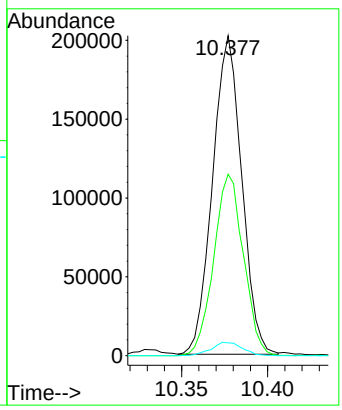




#68
1-Bromo-4-Fluorobenzene
Concen: 9.966 ppbv
RT: 10.377 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

Tgt Ion: 95 Resp: 23832

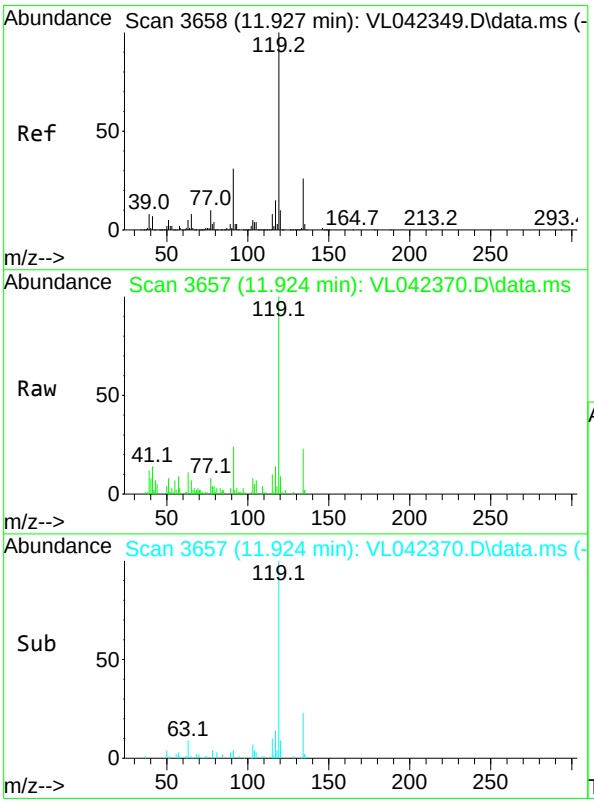
Ion	Ratio	Lower	Upper
95	100		
174	58.0	48.5	72.7
175	4.5	3.7	5.5



Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025

Manual Integrations
APPROVED

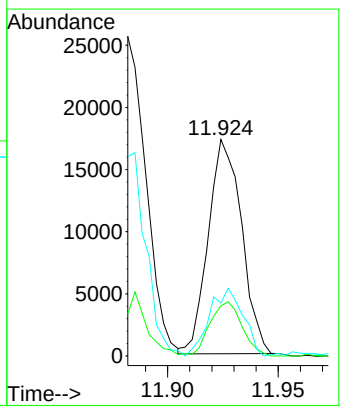
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

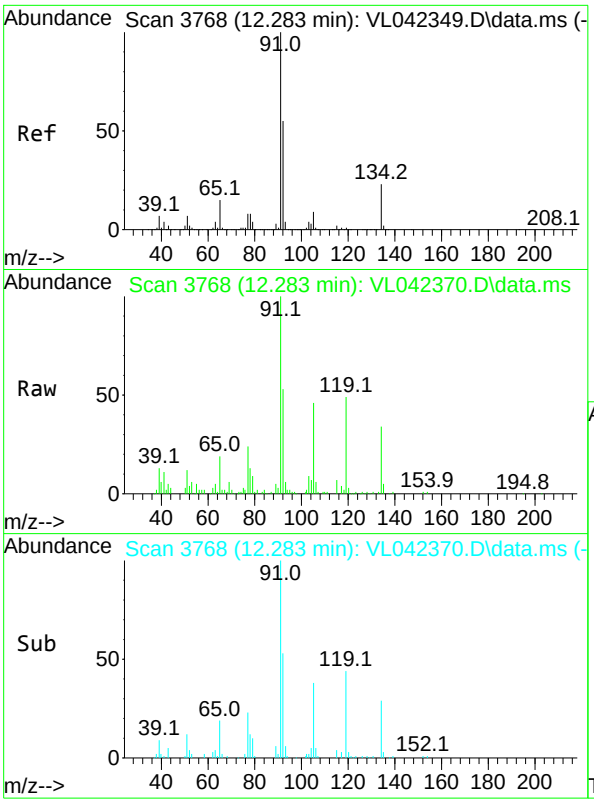


#69
p-Isopropyltoluene
Concen: 0.237 ppbv
RT: 11.924 min Scan# 3657
Delta R.T. -0.003 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

Tgt Ion:119 Resp: 18095

Ion	Ratio	Lower	Upper
119	100		
134	24.6	20.0	30.0
91	31.1	24.4	36.6

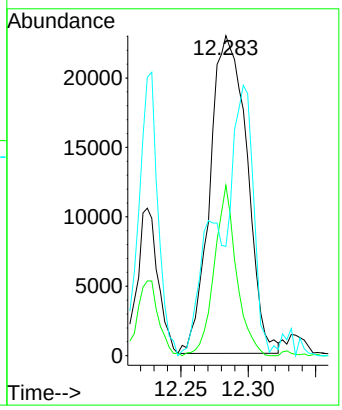




#70
n-Butylbenzene
Concen: 0.548 ppbv
RT: 12.283 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

Tgt Ion: 91 Resp: 4352

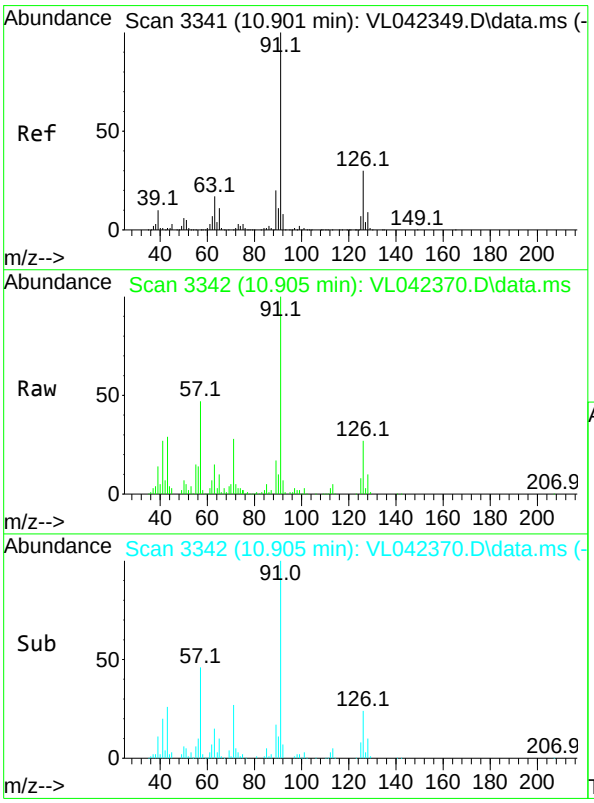
Ion	Ratio	Lower	Upper
91	100		
92	32.2	44.2	66.4#
134	81.0	18.2	27.4#



Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025

Manual Integrations
APPROVED

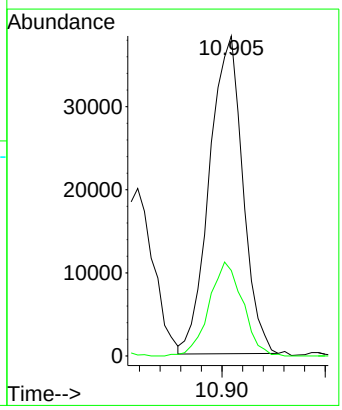
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

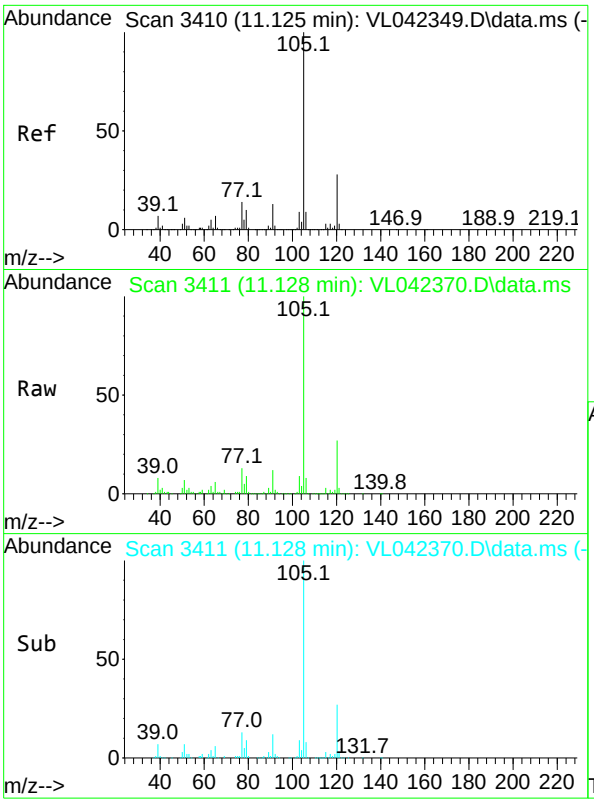


#71
2-Chlorotoluene
Concen: 0.796 ppbv
RT: 10.905 min Scan# 3342
Delta R.T. 0.003 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

Tgt Ion: 91 Resp: 42867

Ion	Ratio	Lower	Upper
91	100		
126	29.9	11.4	45.4

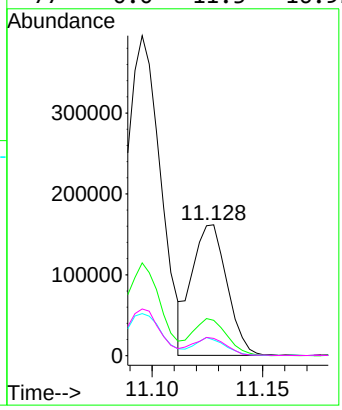




#72
4-Ethyltoluene
Concen: 3.128 ppbv
RT: 11.128 min Scan# 34
Delta R.T. 0.003 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

Tgt Ion:105 Resp: 17887

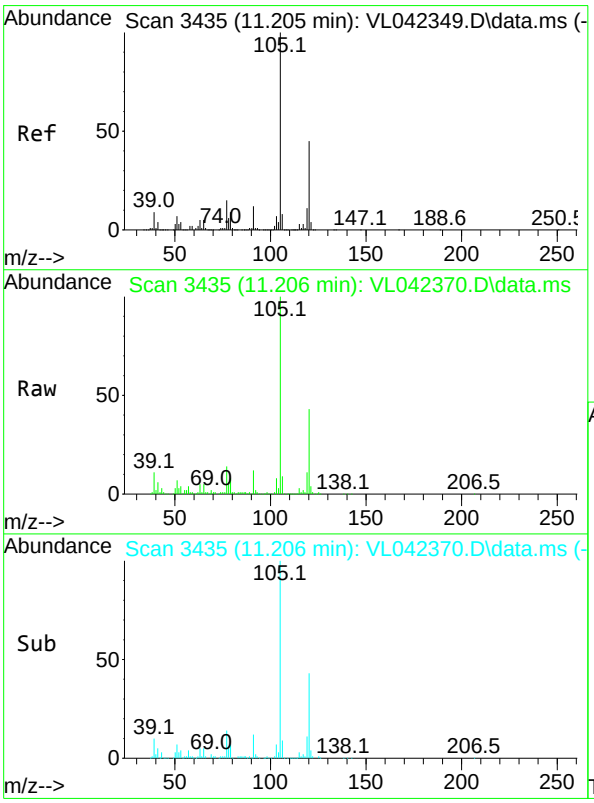
Ion	Ratio	Lower	Upper
105	100		
120	0.0	23.2	34.8#
91	0.0	10.4	15.6#
77	0.0	11.3	16.9#



Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025

Manual Integrations
APPROVED

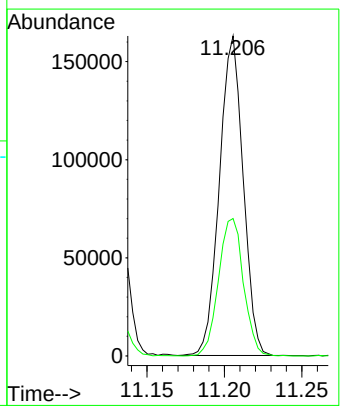
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

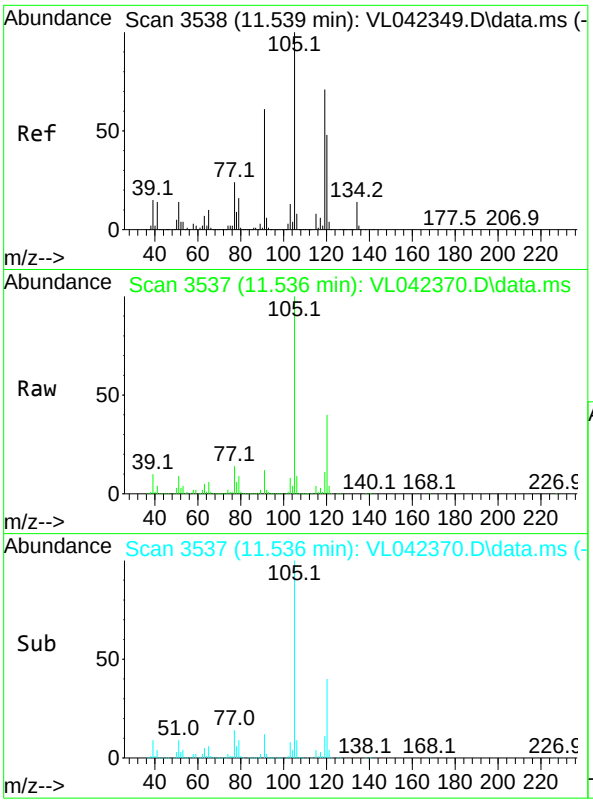


#73
1,3,5-Trimethylbenzene
Concen: 3.443 ppbv
RT: 11.206 min Scan# 3435
Delta R.T. 0.000 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

Tgt Ion:105 Resp: 173796

Ion	Ratio	Lower	Upper
105	100		
120	43.0	35.6	53.4

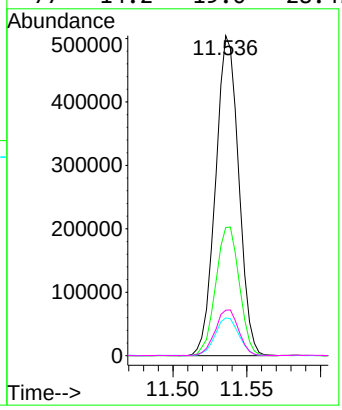




#74
1,2,4-Trimethylbenzene
Concen: 9.336 ppbv
RT: 11.536 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

Tgt Ion:105 Resp: 55045

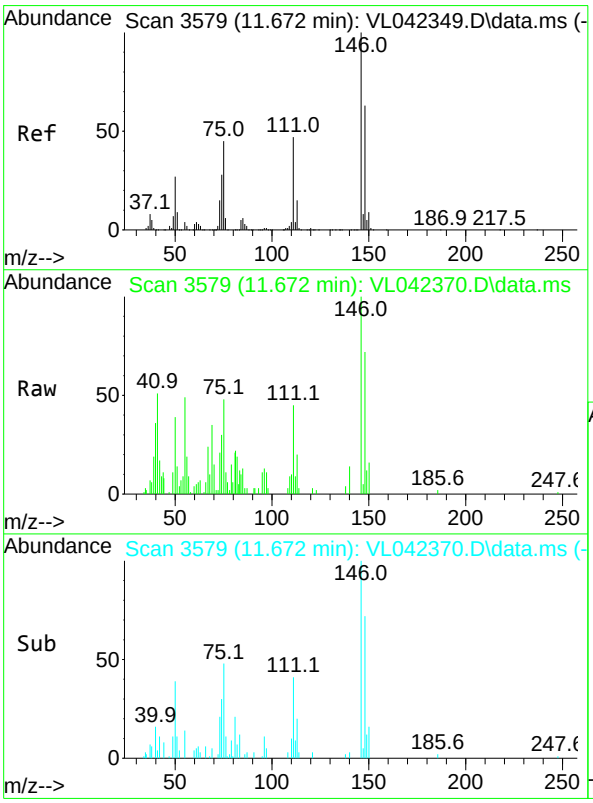
Ion	Ratio	Lower	Upper
105	100		
120	40.1	38.1	57.1
91	11.7	48.8	73.2#
77	14.2	19.0	28.4#



Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025

Manual Integrations
APPROVED

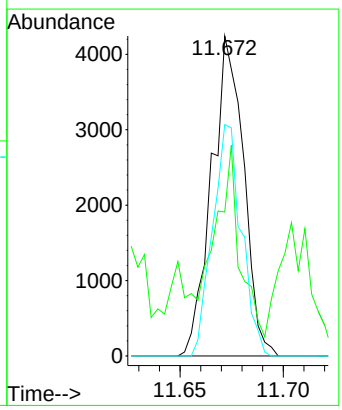
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

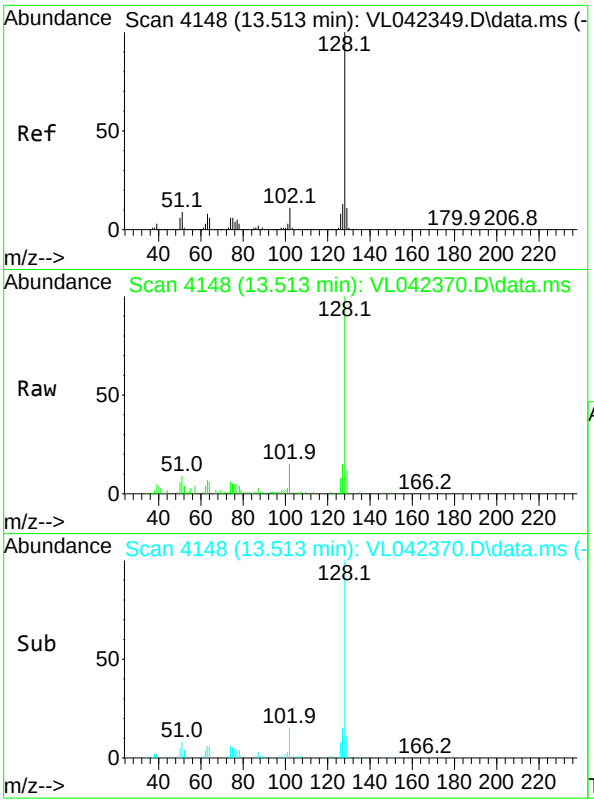


#76
1,4-Dichlorobenzene
Concen: 0.149 ppbv
RT: 11.672 min Scan# 3579
Delta R.T. 0.000 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

Tgt Ion:146 Resp: 4575

Ion	Ratio	Lower	Upper
146	100		
111	68.4	24.2	72.6
148	65.0	32.1	96.5

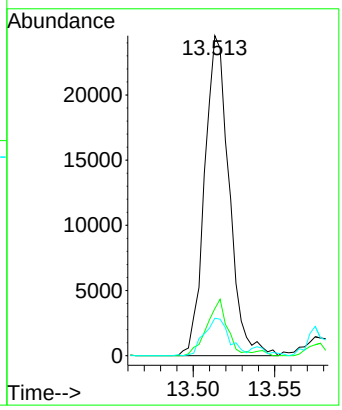




#79
Naphthalene
Concen: 0.364 ppbv
RT: 13.513 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

Tgt Ion:128 Resp: 2568

Ion	Ratio	Lower	Upper
128	100		
127	14.7	10.6	15.8
129	11.7	8.6	12.8



Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025

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 : VL042370.D
Acq On : 17 Apr 2025 22:19
Operator : SY/MD
Sample : Q1726-05
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025

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: VL042370.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	4190677	4720856	64.16%	9.494%
2	1.466	423	426	429	rVV	371491	180159	2.45%	0.362%
3	1.489	429	433	439	rVV2	388721	204224	2.78%	0.411%
4	1.525	441	444	451	rVV	857865	465934	6.33%	0.937%
5	1.560	451	455	459	rVB	1177392	625455	8.50%	1.258%
6	1.622	470	474	478	rVB	842974	431433	5.86%	0.868%
7	1.722	499	505	510	rBV	1147260	687314	9.34%	1.382%
8	1.835	535	540	549	rBV	8237661	7358302	100.00%	14.798%
9	1.887	549	556	561	rBV	906796	603441	8.20%	1.214%
10	2.059	600	609	614	rBV3	163533	171357	2.33%	0.345%
11	2.272	669	675	683	rVB2	218413	185703	2.52%	0.373%
12	2.473	732	737	743	rVB2	171413	172104	2.34%	0.346%
13	2.625	773	784	792	rBV	130302	140774	1.91%	0.283%
14	2.787	827	834	840	rBV	426130	433131	5.89%	0.871%
15	2.826	840	846	858	rVB2	311046	377598	5.13%	0.759%
16	3.227	962	970	979	rVV2	145128	193708	2.63%	0.390%
17	3.285	979	988	998	rVB3	102708	148986	2.02%	0.300%
18	3.654	1085	1102	1108	rBV4	78978	172423	2.34%	0.347%
19	3.687	1108	1112	1126	rVB	118636	171568	2.33%	0.345%
20	3.855	1151	1164	1180	rBV3	75170	138982	1.89%	0.280%
21	3.959	1182	1196	1208	rVV	563766	895248	12.17%	1.800%
22	4.053	1208	1225	1233	rVV2	287111	549487	7.47%	1.105%
23	4.098	1233	1239	1253	rVB2	128345	214824	2.92%	0.432%
24	4.269	1273	1292	1307	rVB3	316040	616215	8.37%	1.239%
25	4.441	1334	1345	1357	rBV4	61535	122875	1.67%	0.247%
26	4.525	1357	1371	1384	rVV7	66128	187809	2.55%	0.378%
27	4.642	1384	1407	1423	rVB	788812	1835343	24.94%	3.691%
28	4.923	1478	1494	1500	rBV8	39747	92276	1.25%	0.186%
29	4.978	1500	1511	1525	rVB3	252320	523150	7.11%	1.052%
30	5.305	1597	1612	1627	rBV9	43020	117578	1.60%	0.236%
31	5.664	1697	1723	1741	rVB5	173749	507516	6.90%	1.021%
32	5.781	1746	1759	1780	rBV9	31114	93072	1.26%	0.187%
33	6.134	1853	1868	1877	rBV8	42289	107787	1.46%	0.217%
34	6.198	1877	1888	1900	rBV5	102663	272321	3.70%	0.548%
35	6.273	1910	1911	1928	rVB3	119686	152813	2.08%	0.307%
36	6.467	1956	1971	1982	rBV4	38589	91809	1.25%	0.185%

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042370.D
Acq On : 17 Apr 2025 22:19
Operator : SY/MD
Sample : Q1726-05
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025

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	6.830	2065	2083	2100	rBV4	374758	936403	12.73%	1.883%
38	6.936	2100	2116	2137	rVB2	1817487	4157590	56.50%	8.361%
39	7.189	2174	2194	2208	rBV3	142876	313991	4.27%	0.631%
40	7.377	2235	2252	2262	rBV3	207786	420853	5.72%	0.846%
41	7.600	2309	2321	2338	rBV5	209382	619631	8.42%	1.246%
42	7.684	2338	2347	2365	rVB7	101355	219137	2.98%	0.441%
43	7.894	2400	2412	2431	rBV3	198290	463486	6.30%	0.932%
44	8.131	2476	2485	2504	rVB7	81558	179566	2.44%	0.361%
45	8.228	2504	2515	2524	rVV6	64824	131064	1.78%	0.264%
46	8.302	2524	2538	2554	rVB5	330485	668560	9.09%	1.345%
47	8.882	2702	2717	2727	rBV2	723068	1131473	15.38%	2.275%
48	8.940	2727	2735	2740	rVV4	60638	101429	1.38%	0.204%
49	8.979	2740	2747	2764	rVB7	121466	286058	3.89%	0.575%
50	9.144	2791	2798	2812	rBV	88760	143504	1.95%	0.289%
51	9.354	2853	2863	2876	rBV	625764	921636	12.53%	1.853%
52	9.532	2900	2918	2936	rVB	1562439	2964531	40.29%	5.962%
53	9.730	2966	2979	2991	rVB3	158890	355256	4.83%	0.714%
54	9.862	3005	3020	3034	rBV4	176905	318396	4.33%	0.640%
55	9.963	3037	3051	3061	rBV	860851	1232191	16.75%	2.478%
56	10.099	3088	3093	3100	rVB3	67189	84524	1.15%	0.170%
57	10.354	3161	3172	3173	rBV2	272364	287932	3.91%	0.579%
58	10.377	3173	3179	3189	rVB	906204	1148004	15.60%	2.309%
59	10.539	3220	3229	3236	rBV	90277	121863	1.66%	0.245%
60	10.772	3289	3301	3305	rBV3	53080	87705	1.19%	0.176%
61	10.856	3321	3327	3334	rVB2	203113	241121	3.28%	0.485%
62	10.901	3334	3341	3354	rVB2	182917	233803	3.18%	0.470%
63	10.989	3354	3368	3382	rBV	314093	435429	5.92%	0.876%
64	11.095	3393	3401	3406	rBV	1046955	1163691	15.81%	2.340%
65	11.125	3406	3410	3420	rVB	422431	467230	6.35%	0.940%
66	11.202	3420	3434	3443	rBV	501322	602802	8.19%	1.212%
67	11.312	3462	3468	3471	rBV2	106576	119099	1.62%	0.240%
68	11.338	3471	3476	3483	rVB	339144	375242	5.10%	0.755%
69	11.406	3490	3497	3500	rBV2	83515	101509	1.38%	0.204%
70	11.536	3528	3537	3549	rBV	1461127	1645271	22.36%	3.309%
71	11.756	3599	3605	3607	rBV2	123272	128022	1.74%	0.257%
72	11.775	3607	3611	3621	rVB2	266254	315154	4.28%	0.634%
73	11.879	3637	3643	3652	rVB2	369236	397995	5.41%	0.800%
74	12.018	3676	3686	3690	rBV	246758	277541	3.77%	0.558%
75	12.044	3690	3694	3701	rVV4	221746	235773	3.20%	0.474%
76	12.086	3701	3707	3717	rVB3	64745	84577	1.15%	0.170%

LSC Area Percent Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042370.D
Acq On : 17 Apr 2025 22:19
Operator : SY/MD
Sample : Q1726-05
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025

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	12.225	3745	3750	3757	rVB2	277625	286370	3.89%	0.576%
78	12.270	3757	3764	3767	rBV	114078	128849	1.75%	0.259%
79	12.296	3767	3772	3778	rVB2	189687	209608	2.85%	0.422%
80	12.403	3795	3805	3811	rBV2	93620	120157	1.63%	0.242%
81	12.507	3831	3837	3840	rBV3	140497	154524	2.10%	0.311%
82	12.588	3855	3862	3872	rBV2	217812	323028	4.39%	0.650%
83	12.798	3921	3927	3933	rVB5	95403	100866	1.37%	0.203%
84	12.953	3969	3975	3984	rVB	83274	84592	1.15%	0.170%
85	13.128	4024	4029	4036	rVB	102020	98375	1.34%	0.198%
86	13.228	4053	4060	4067	rBV4	112617	135293	1.84%	0.272%

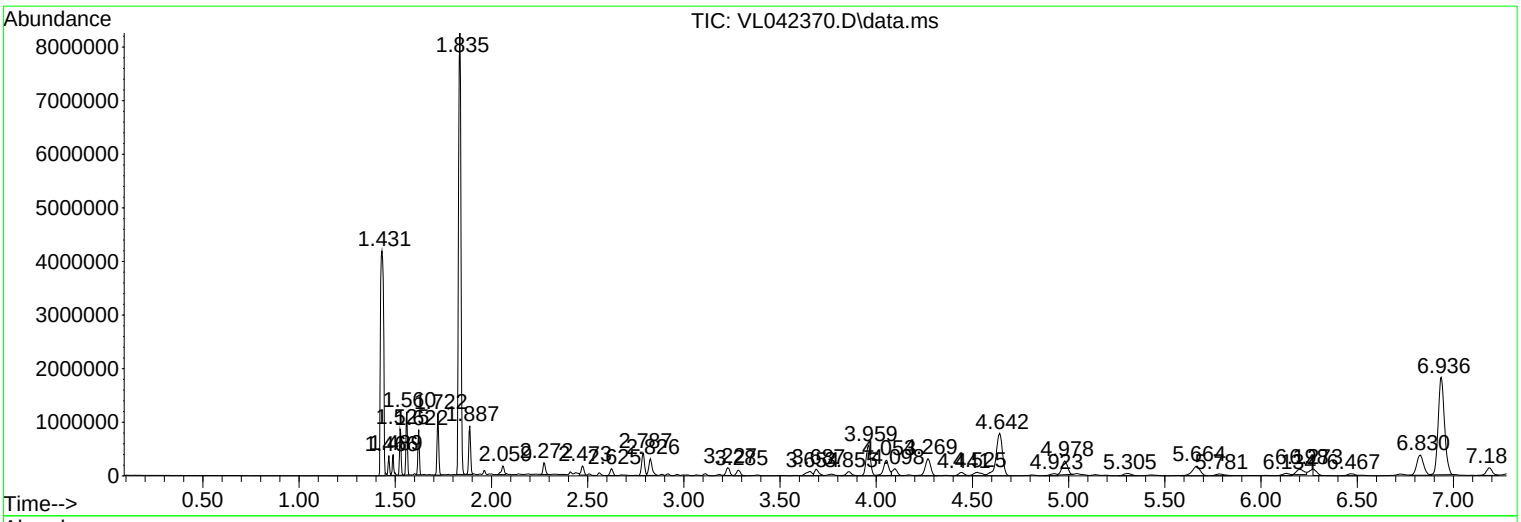
Sum of corrected areas: 49724279

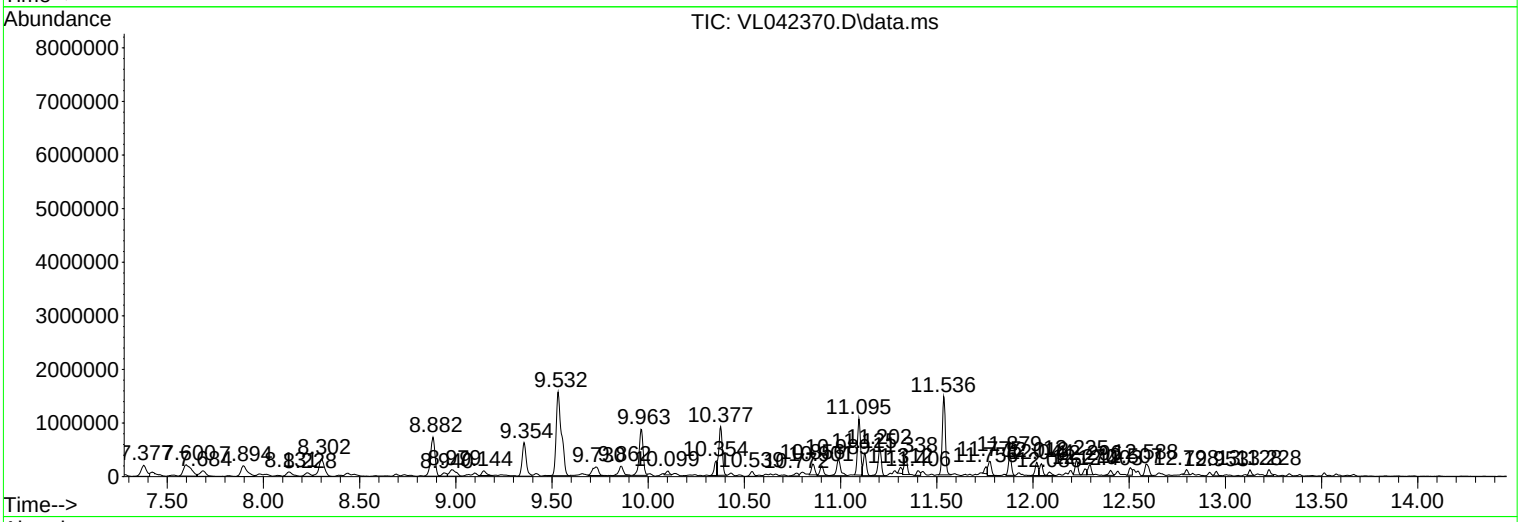
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042370.D
Acq On : 17 Apr 2025 22:19
Operator : SY/MD
Sample : Q1726-05
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

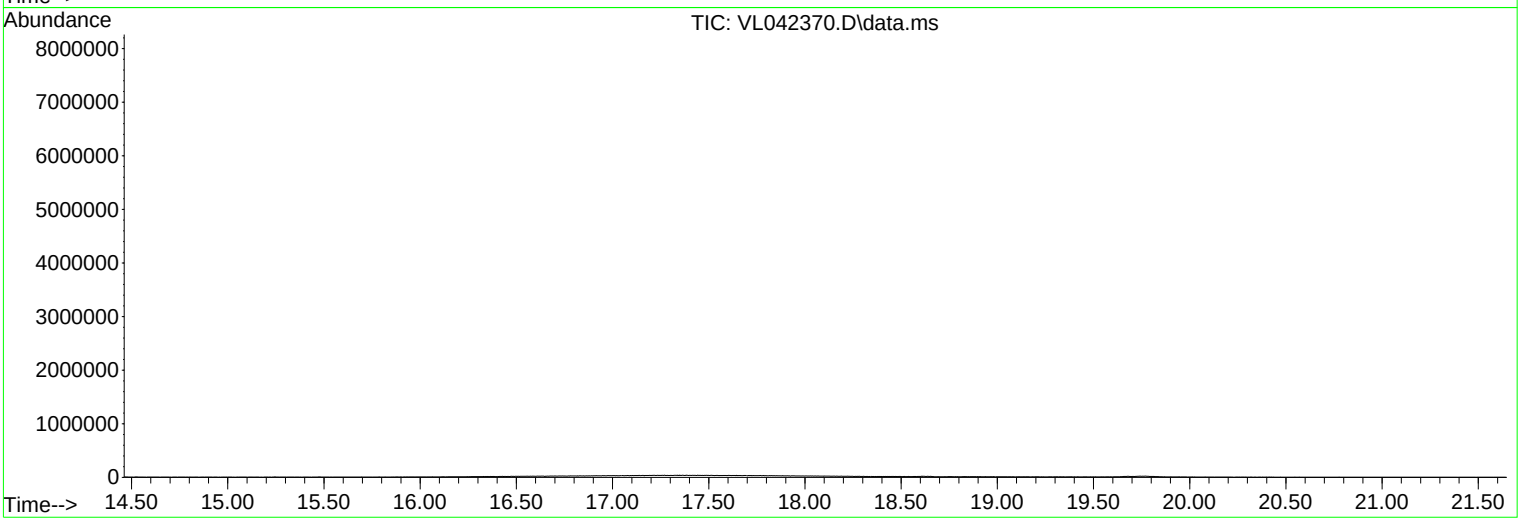
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025

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 : VL042370.D
Acq On : 17 Apr 2025 22:19
Operator : SY/MD
Sample : Q1726-05
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025

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

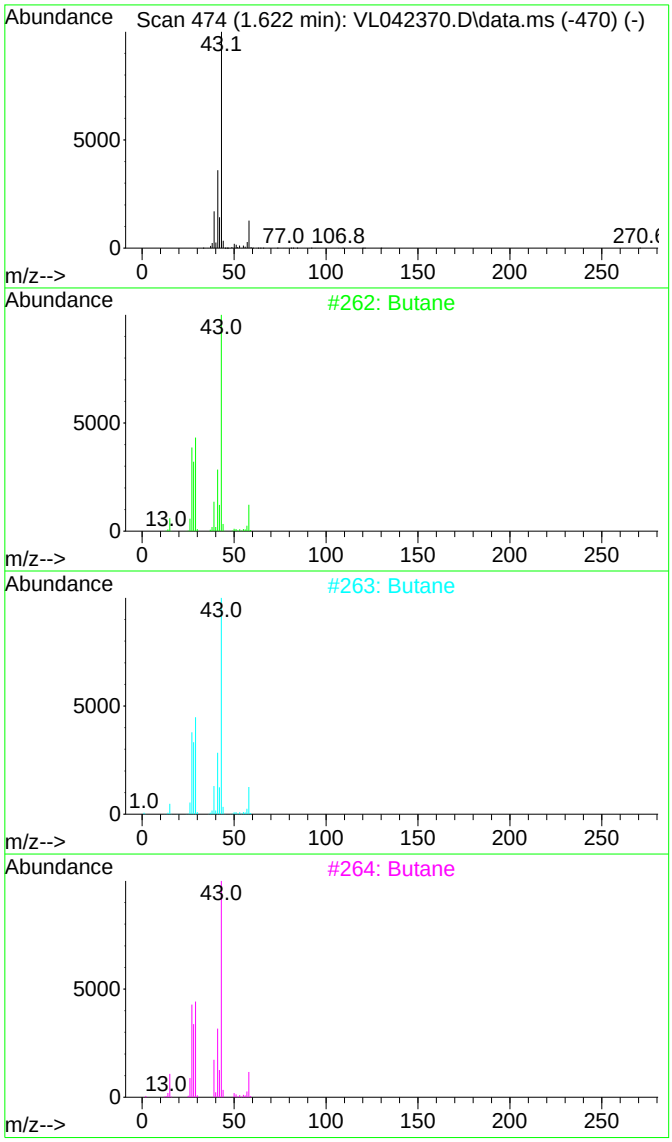
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

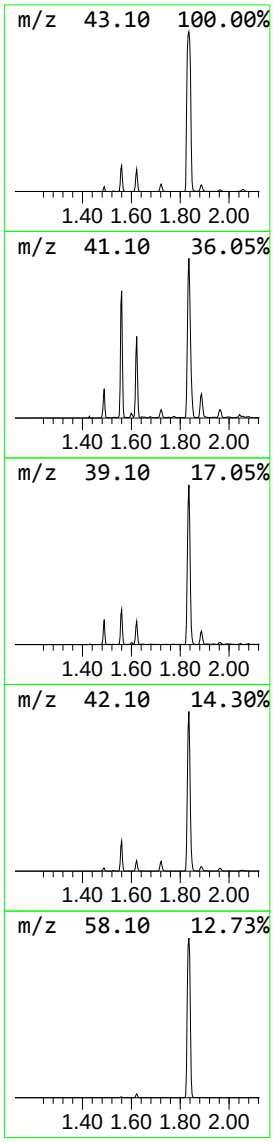
****

Peak Number 1 Butane Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.622	9.96 ppbv	431433	Bromochloromethane	2.787

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane	58	C4H10	000106-97-8	72
2	Butane	58	C4H10	000106-97-8	72
3	Butane	58	C4H10	000106-97-8	64
4	Butane	58	C4H10	000106-97-8	64
5	Isobutane	58	C4H10	000075-28-5	9





Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042370.D
Acq On : 17 Apr 2025 22:19
Operator : SY/MD
Sample : Q1726-05
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025

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

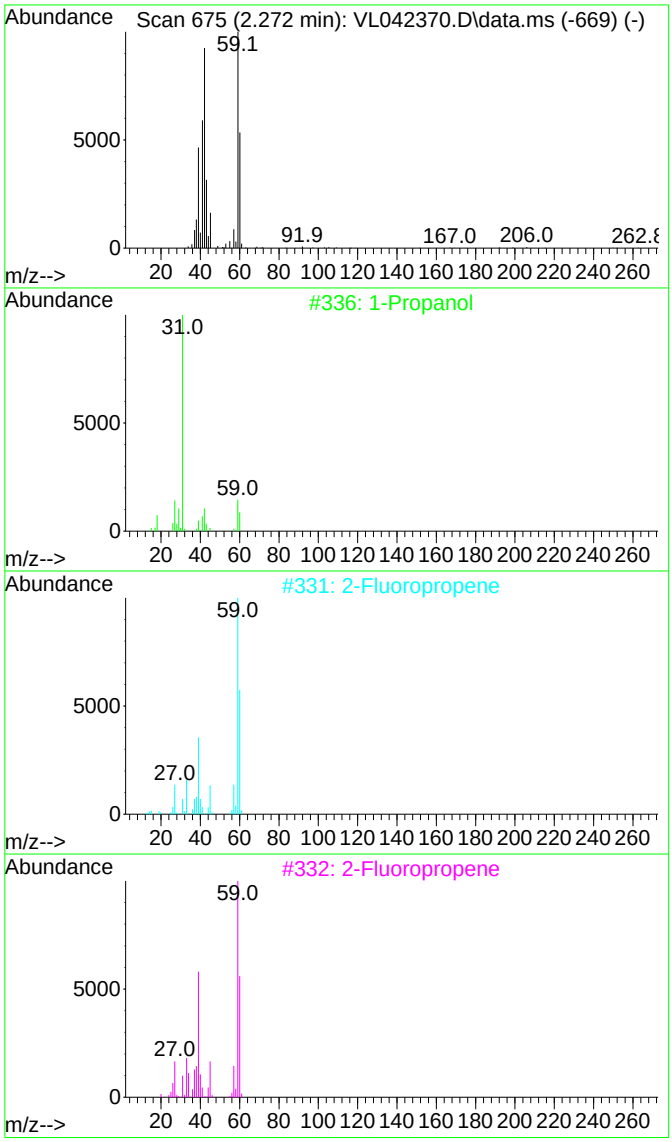
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

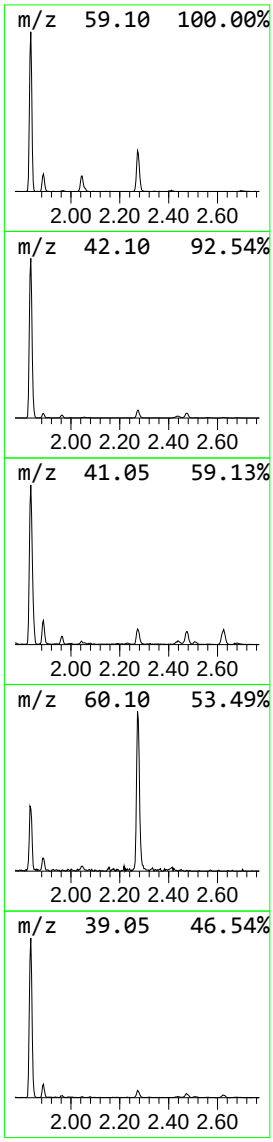
****

Peak Number 2 1-Propanol Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.272	4.29 ppbv	185703	Bromochloromethane	2.787

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Propanol	60	C3H8O	000071-23-8	59
2	2-Fluoropropene	60	C3H5F	001184-60-7	50
3	2-Fluoropropene	60	C3H5F	001184-60-7	50
4	1-Propanol	60	C3H8O	000071-23-8	49
5	1-Propanol	60	C3H8O	000071-23-8	38





Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042370.D
Acq On : 17 Apr 2025 22:19
Operator : SY/MD
Sample : Q1726-05
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025

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

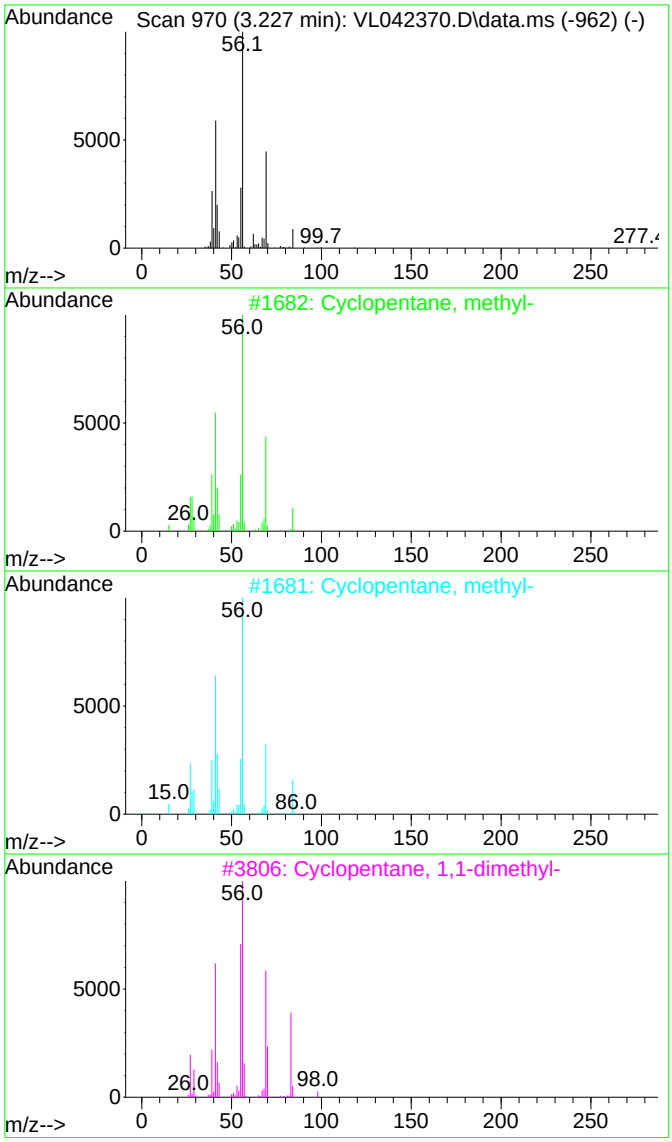
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

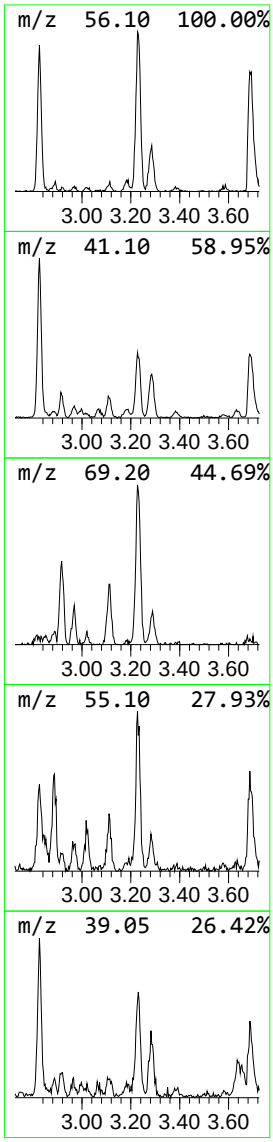
****

Peak Number 3 Cyclopentane, methyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.227	4.47 ppbv	193708	Bromochloromethane	2.787

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, methyl-	84	C6H12	000096-37-7	90
2	Cyclopentane, methyl-	84	C6H12	000096-37-7	80
3	Cyclopentane, 1,1-dimethyl-	98	C7H14	001638-26-2	72
4	Cyclohexane	84	C6H12	000110-82-7	72
5	Cyclohexane	84	C6H12	000110-82-7	72





Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042370.D
Acq On : 17 Apr 2025 22:19
Operator : SY/MD
Sample : Q1726-05
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025

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

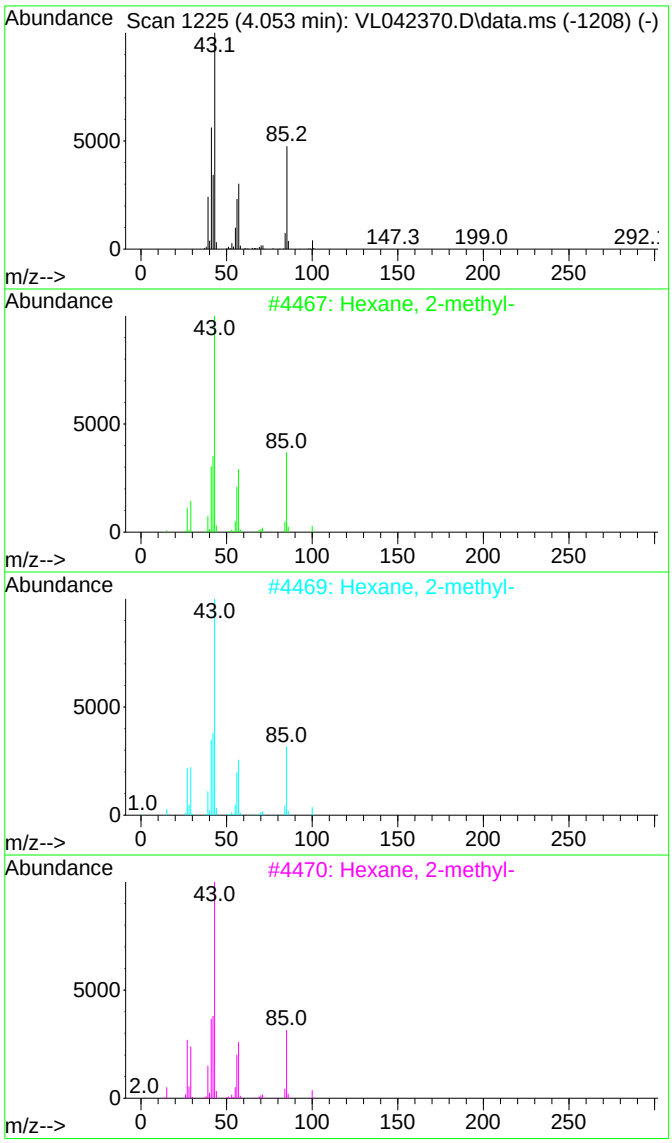
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

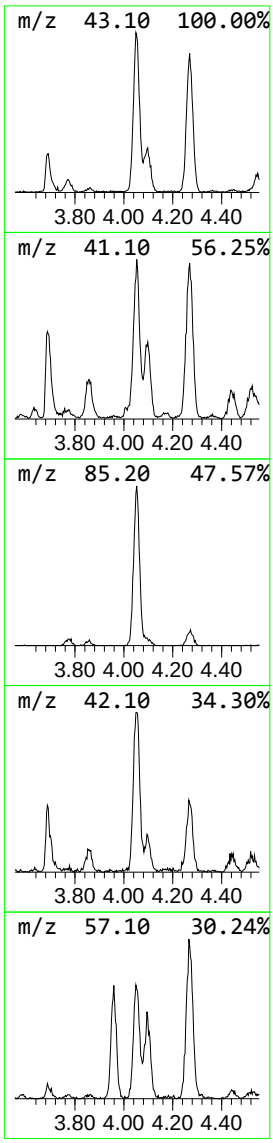
****

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.053	6.14 ppbv	549487	1,4-Difluorobenzene	3.959

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2-methyl-	100	C7H16	000591-76-4	90
2	Hexane, 2-methyl-	100	C7H16	000591-76-4	76
3	Hexane, 2-methyl-	100	C7H16	000591-76-4	76
4	Oxalic acid, diisohexyl ester	258	C14H26O4	1010309-32-9	50
5	Hexane, 2,4-dimethyl-	114	C8H18	000589-43-5	50





Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042370.D
Acq On : 17 Apr 2025 22:19
Operator : SY/MD
Sample : Q1726-05
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025

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

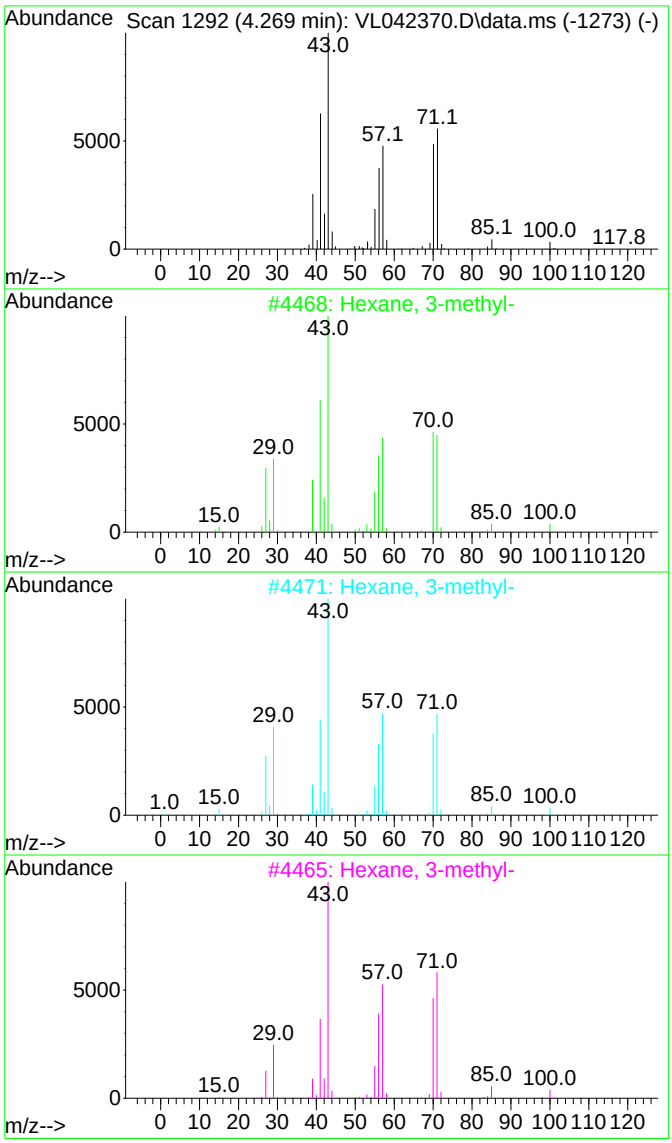
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

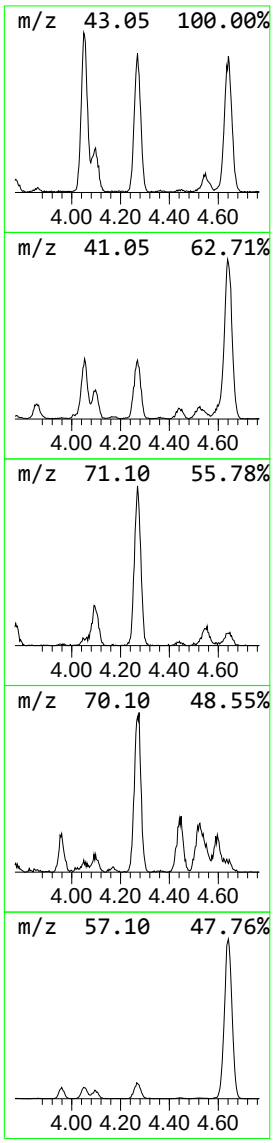
****

Peak Number 5 Hexane, 3-methyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.269	6.88 ppbv	616215	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	91
4	Heptane, 4-methyl-	114	C8H18	000589-53-7	72
5	Pentane, 3-ethyl-	100	C7H16	000617-78-7	72





Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042370.D
Acq On : 17 Apr 2025 22:19
Operator : SY/MD
Sample : Q1726-05
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025

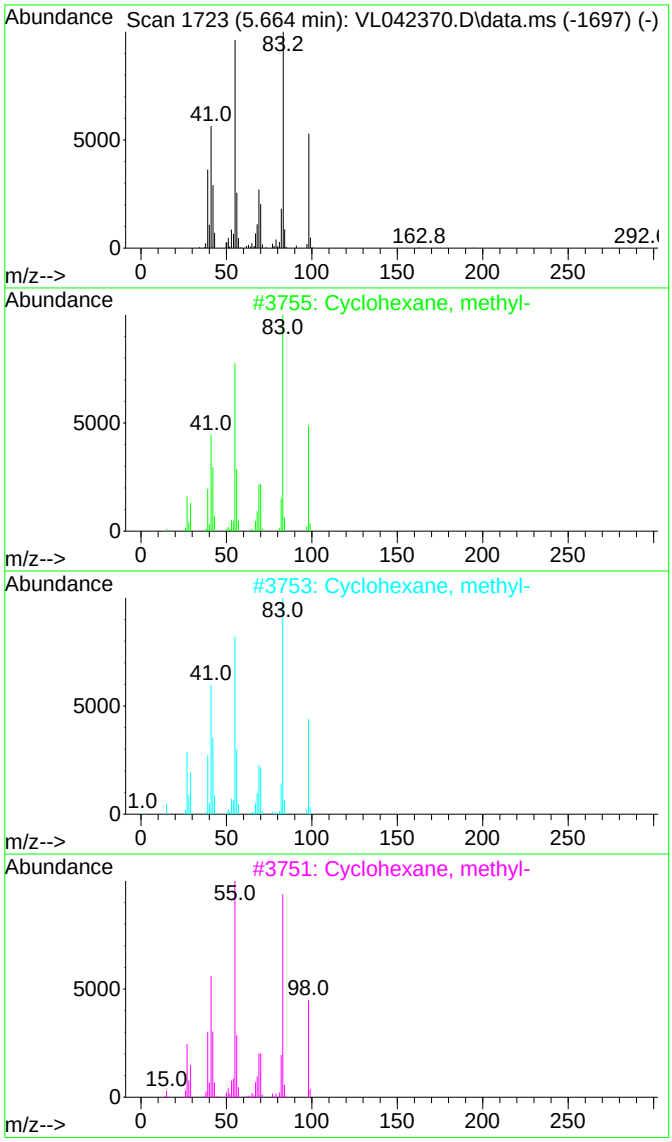
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

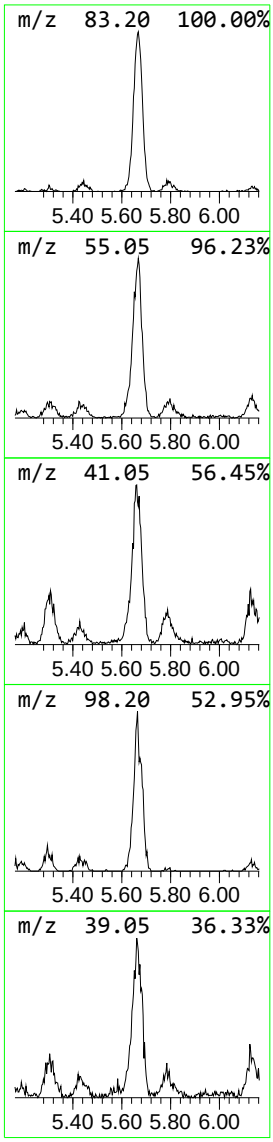
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 6 Cyclohexane, methyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.664	5.67 ppbv	507516	1,4-Difluorobenzene	3.959

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, methyl-	98	C7H14	000108-87-2	97
2	Cyclohexane, methyl-	98	C7H14	000108-87-2	95
3	Cyclohexane, methyl-	98	C7H14	000108-87-2	95
4	Cyclohexane, methyl-	98	C7H14	000108-87-2	86
5	Cyclohexane, methyl-	98	C7H14	000108-87-2	72





Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042370.D
Acq On : 17 Apr 2025 22:19
Operator : SY/MD
Sample : Q1726-05
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025

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

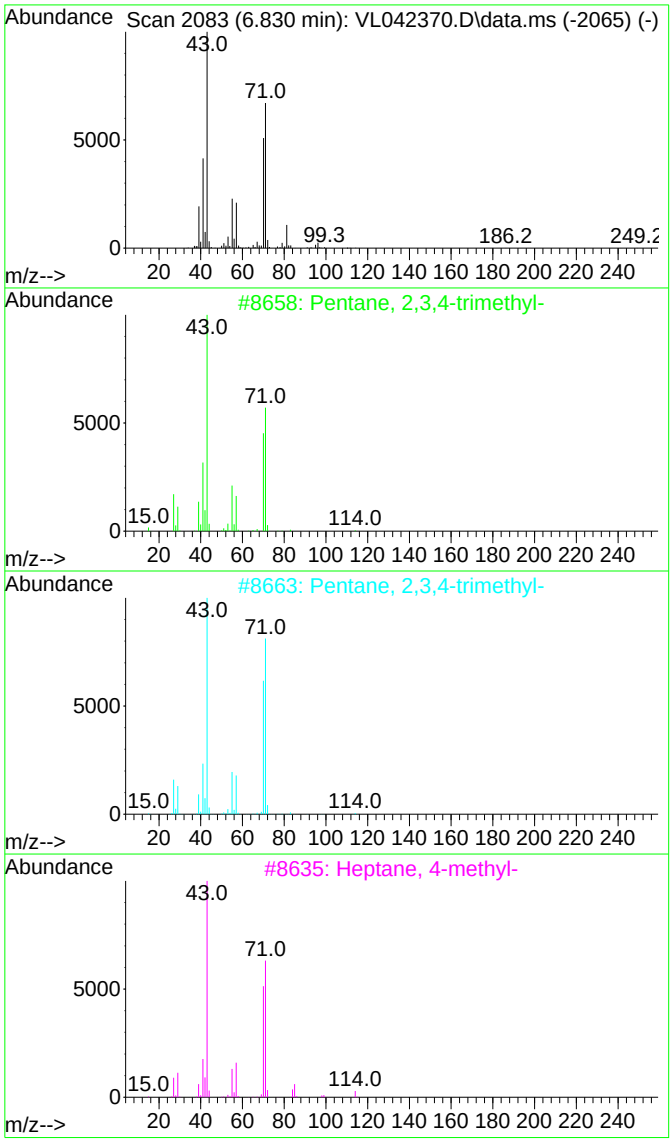
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

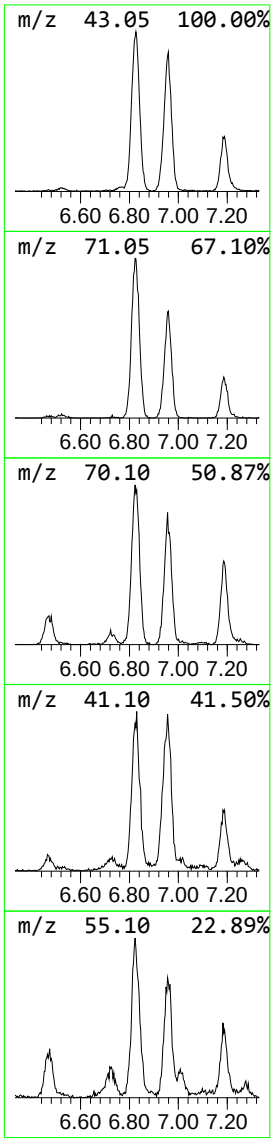
****

Peak Number 7 Pentane, 2,3,4-trimethyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.830	8.28 ppbv	936403	Chlorobenzene-d5	8.882

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	80
2	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	72
3	Heptane, 4-methyl-	114	C8H18	000589-53-7	72
4	Heptane, 4-methyl-	114	C8H18	000589-53-7	72
5	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	72





Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042370.D
Acq On : 17 Apr 2025 22:19
Operator : SY/MD
Sample : Q1726-05
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025

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

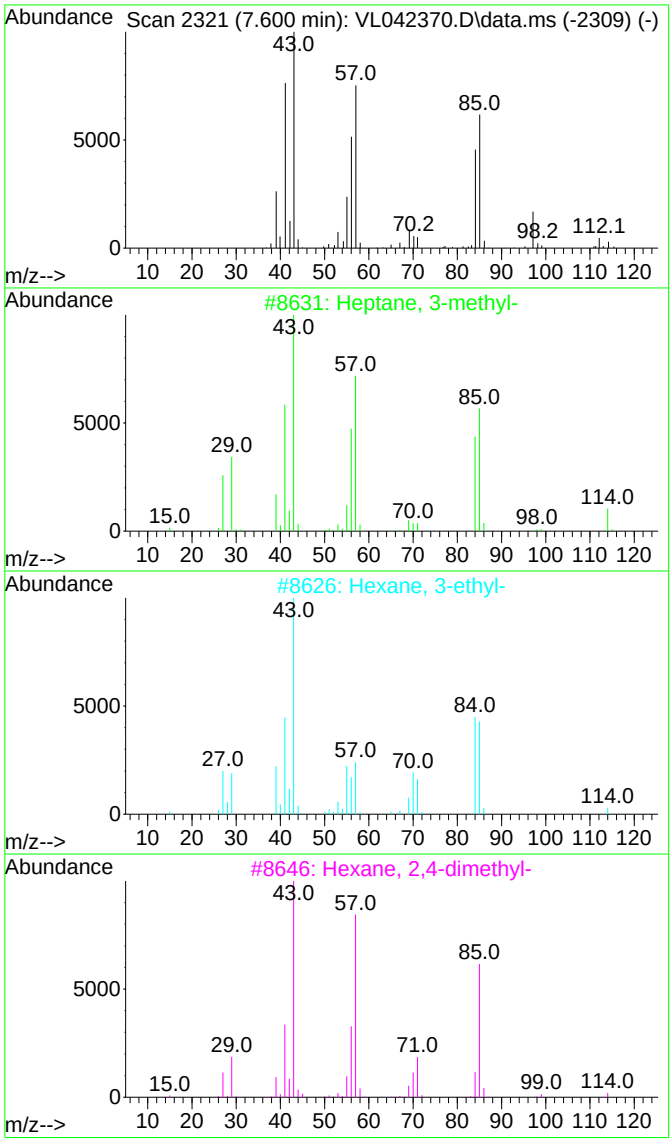
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

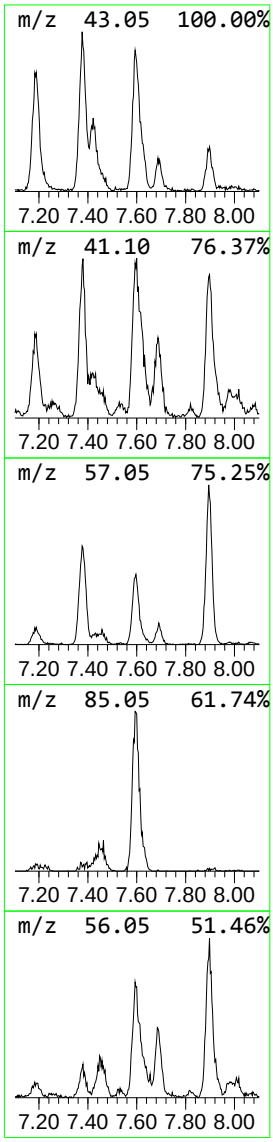
****

Peak Number 8 Heptane, 3-methyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.600	5.48 ppbv	619631	Chlorobenzene-d5	8.882

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptane, 3-methyl-	114	C8H18	000589-81-1	90
2	Hexane, 3-ethyl-	114	C8H18	000619-99-8	58
3	Hexane, 2,4-dimethyl-	114	C8H18	000589-43-5	52
4	Heptane, 3-methyl-	114	C8H18	000589-81-1	52
5	Hexane, 2,4-dimethyl-	114	C8H18	000589-43-5	49





Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042370.D
Acq On : 17 Apr 2025 22:19
Operator : SY/MD
Sample : Q1726-05
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025

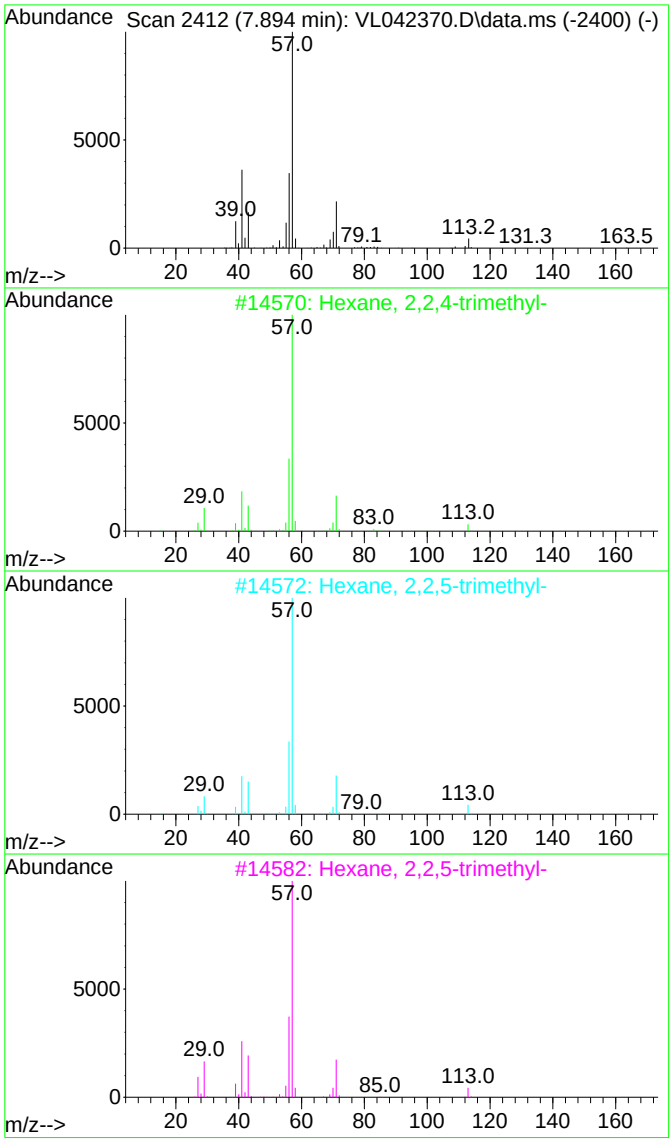
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

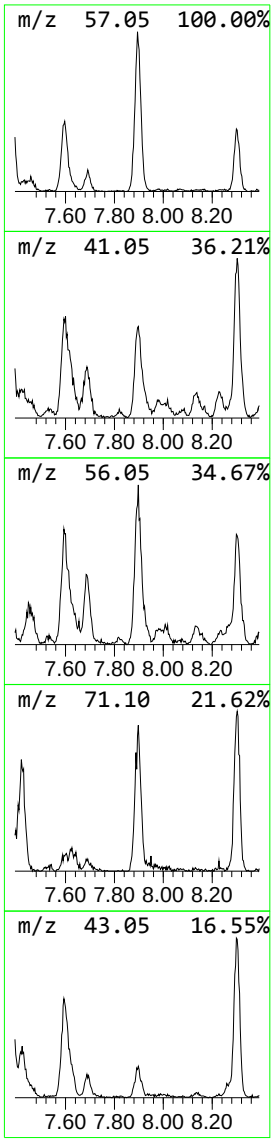
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 9 Hexane, 2,2,4-trimethyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.894	4.10 ppbv	463486	Chlorobenzene-d5	8.882

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2,2,4-trimethyl-	128	C9H20	016747-26-5	72
2	Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	64
3	Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	64
4	Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	64
5	Heptane, 2,2-dimethyl-	128	C9H20	001071-26-7	59





Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042370.D
Acq On : 17 Apr 2025 22:19
Operator : SY/MD
Sample : Q1726-05
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025

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

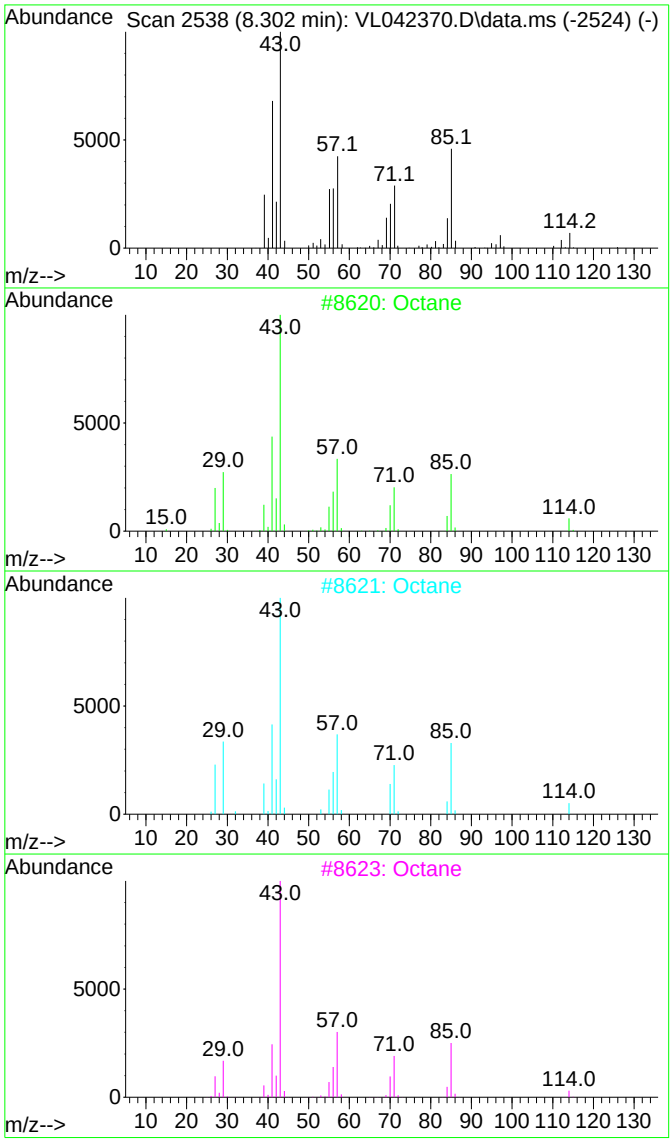
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

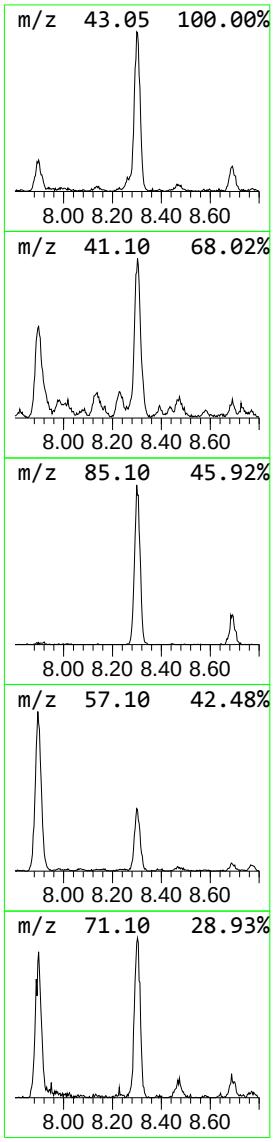
****

Peak Number 10 Octane Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.302	5.91 ppbv	668560	Chlorobenzene-d5	8.882

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octane	114	C8H18	000111-65-9	87
2	Octane	114	C8H18	000111-65-9	83
3	Octane	114	C8H18	000111-65-9	80
4	Octane	114	C8H18	000111-65-9	80
5	Heptane, 2,4-dimethyl-	128	C9H20	002213-23-2	53





Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042370.D
Acq On : 17 Apr 2025 22:19
Operator : SY/MD
Sample : Q1726-05
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025

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
Butane	1.622	10.0	ppbv	431433	1	2.787	433131	10.0
1-Propanol	2.272	4.3	ppbv	185703	1	2.787	433131	10.0
Cyclopentane, m...	3.227	4.5	ppbv	193708	1	2.787	433131	10.0
Hexane, 2-methyl-	4.053	6.1	ppbv	549487	2	3.959	895248	10.0
Hexane, 3-methyl-	4.269	6.9	ppbv	616215	2	3.959	895248	10.0
Cyclohexane, me...	5.664	5.7	ppbv	507516	2	3.959	895248	10.0
Pentane, 2,3,4-...	6.830	8.3	ppbv	936403	3	8.882	1131470	10.0
Heptane, 3-methyl-	7.600	5.5	ppbv	619631	3	8.882	1131470	10.0
Hexane, 2,2,4-t...	7.894	4.1	ppbv	463486	3	8.882	1131470	10.0
Octane	8.302	5.9	ppbv	668560	3	8.882	1131470	10.0

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

Report of Analysis

Client:	Woodard & Curran	Date Collected:	04/01/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	IA-B2-1-03312025DL	SDG No.:	Q1726
Lab Sample ID:	Q1726-05DL	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
VL042380.D	20		04/18/25 03:34	VL041725

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	4.20	20.8	UD	20.8	49.5	ug/m3
64-17-5	Ethanol	360	678	EDQ	12.1	18.8	ug/m3
74-87-3	Chloromethane	2.00	4.13	UD	4.13	20.6	ug/m3
75-01-4	Vinyl Chloride	0.28	0.72	UD	0.72	1.53	ug/m3
74-83-9	Bromomethane	2.80	10.9	UD	10.9	38.8	ug/m3
75-00-3	Chloroethane	3.40	8.97	UD	8.97	26.4	ug/m3
109-99-9	Tetrahydrofuran	2.60	7.67	UD	7.67	29.5	ug/m3
75-69-4	Trichlorofluoromethane	3.20	18.0	UD	18.0	56.2	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	3.20	24.5	UD	24.5	76.7	ug/m3
76-14-2	Dichlorotetrafluoroethane	1.80	12.6	UD	12.6	69.9	ug/m3
593-60-2	Bromoethene	2.40	10.5	UD	10.5	43.7	ug/m3
75-65-0	tert-Butyl alcohol	3.80	11.5	UD	11.5	30.3	ug/m3
142-82-5	Heptane	5.60	22.9	JD	9.02	41.0	ug/m3
67-63-0	Isopropyl Alcohol	47.1	116	D	3.44	24.6	ug/m3
75-35-4	1,1-Dichloroethene	2.80	11.1	UD	11.1	39.6	ug/m3
67-64-1	Acetone	760	1810	ED	11.4	23.8	ug/m3
75-15-0	Carbon Disulfide	3.20	9.97	UD	9.97	31.1	ug/m3
1634-04-4	Methyl tert-Butyl Ether	2.40	8.65	UD	8.65	36.0	ug/m3
75-09-2	Methylene Chloride	3.80	13.2	UD	13.2	34.7	ug/m3
156-60-5	trans-1,2-Dichloroethene	3.80	15.1	UD	15.1	39.6	ug/m3
75-34-3	1,1-Dichloroethane	2.60	10.5	UD	10.5	40.5	ug/m3
110-82-7	Cyclohexane	4.40	15.2	UD	15.2	34.4	ug/m3
78-93-3	2-Butanone	2.40	7.08	UD	7.08	29.5	ug/m3
56-23-5	Carbon Tetrachloride	0.22	1.38	UD	1.38	3.77	ug/m3
156-59-2	cis-1,2-Dichloroethene	1.80	7.14	UD	7.14	39.6	ug/m3
67-66-3	Chloroform	1.70	8.30	UD	8.30	48.8	ug/m3
71-55-6	1,1,1-Trichloroethane	0.19	1.04	UD	1.04	3.27	ug/m3
540-84-1	2,2,4-Trimethylpentane	12.5	58.4	D	9.34	46.7	ug/m3
71-43-2	Benzene	1.70	5.43	UD	5.43	31.9	ug/m3
107-06-2	1,2-Dichloroethane	1.80	7.29	UD	7.29	40.5	ug/m3
79-01-6	Trichloroethene	0.34	1.83	UD	1.83	3.22	ug/m3
78-87-5	1,2-Dichloropropane	2.20	10.2	UD	10.2	46.2	ug/m3
75-27-4	Bromodichloromethane	1.50	10.1	UD	10.1	67.0	ug/m3
108-10-1	4-Methyl-2-Pentanone	1.90	7.79	UD	7.79	41.0	ug/m3
108-88-3	Toluene	34.9	132	D	8.29	37.7	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:	04/01/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	IA-B2-1-03312025DL	SDG No.:	Q1726
Lab Sample ID:	Q1726-05DL	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
VL042380.D	20		04/18/25 03:34	VL041725

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	1.20	5.45	UD	5.45	45.4	ug/m3
10061-01-5	cis-1,3-Dichloropropene	1.30	5.90	UD	5.90	45.4	ug/m3
79-00-5	1,1,2-Trichloroethane	1.40	7.64	UD	7.64	54.6	ug/m3
124-48-1	Dibromochloromethane	1.30	11.1	UD	11.1	85.2	ug/m3
106-93-4	1,2-Dibromoethane	1.40	10.8	UD	10.8	15.4	ug/m3
127-18-4	Tetrachloroethene	0.30	2.03	UD	2.03	4.07	ug/m3
108-90-7	Chlorobenzene	1.50	6.91	UD	6.91	46.0	ug/m3
100-41-4	Ethyl Benzene	6.70	29.1	JD	10.4	43.4	ug/m3
179601-23-1	m/p-Xylene	23.9	104	D	18.2	86.9	ug/m3
95-47-6	o-Xylene	9.10	39.5	JD	10.4	43.4	ug/m3
100-42-5	Styrene	2.20	9.37	UD	9.37	42.6	ug/m3
75-25-2	Bromoform	1.10	11.4	UD	11.4	103	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	0.22	1.51	UD	1.51	4.12	ug/m3
95-49-8	2-Chlorotoluene	2.20	11.4	UD	11.4	51.8	ug/m3
108-67-8	1,3,5-Trimethylbenzene	4.00	19.7	JD	10.8	49.2	ug/m3
95-63-6	1,2,4-Trimethylbenzene	9.90	48.7	JD	7.87	49.2	ug/m3
541-73-1	1,3-Dichlorobenzene	1.60	9.62	UD	9.62	60.1	ug/m3
106-46-7	1,4-Dichlorobenzene	1.10	6.61	UD	6.61	60.1	ug/m3
95-50-1	1,2-Dichlorobenzene	1.50	9.02	UD	9.02	60.1	ug/m3
120-82-1	1,2,4-Trichlorobenzene	1.70	12.6	UD	12.6	74.2	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	1.70	18.1	UD	18.1	107	ug/m3
106-99-0	1,3-Butadiene	2.60	5.75	UD	5.75	22.1	ug/m3
91-20-3	Naphthalene	1.50	7.86	UD	7.86	10.5	ug/m3
622-96-8	4-Ethyltoluene	3.40	16.7	JD	11.8	49.2	ug/m3
110-54-3	Hexane	2.20	7.75	UD	7.75	35.2	ug/m3
107-05-1	Allyl Chloride	3.00	9.39	UD	9.39	31.3	ug/m3
123-91-1	1,4-Dioxane	4.20	15.1	UD	15.1	36.0	ug/m3
80-62-6	Methyl Methacrylate	1.70	6.96	UD	6.96	41.0	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	10.4			70 (65) - 130 (135)	104%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	90000		2.787			
540-36-3	1,4-Difluorobenzene	253000		3.955			
3114-55-4	Chlorobenzene-d5	219000		8.878			

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

Report of Analysis

Client:	Woodard & Curran	Date Collected:	04/01/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	IA-B2-1-03312025DL	SDG No.:	Q1726
Lab Sample ID:	Q1726-05DL	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
VL042380.D	20		04/18/25 03:34	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 : VL042380.D
Acq On : 18 Apr 2025 03:34
Operator : SY/MD
Sample : Q1726-05DL 20X
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 18 04:41:49 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-B2-1-03312025DL

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	90034	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.955	114	252514	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.878	117	219443	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.374	95	187830	10.416	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 104.200%				
Target Compounds							Qvalue
9) Propene	1.486	41	1466m	0.213	ppbv		
10) Heptane	4.978	43	5390m	0.278	ppbv		
13) Ethanol	1.722	45	19984	18.226	ppbv		76
15) Acetone	1.835	43	563713	38.247	ppbv		98
19) Isopropyl Alcohol	1.887	45	19270	2.354	ppbv	#	1
44) 2,2,4-Trimethylpentane	4.635	57	29451	0.626	ppbv	#	90
53) Toluene	6.927	91	57048	1.745	ppbv		97
58) Ethyl Benzene	9.351	91	14493	0.333	ppbv		92
59) m/p-Xylene	9.529	91	41899	1.196	ppbv		98
60) o-Xylene	9.959	91	16128	0.457	ppbv		99
72) 4-Ethyltoluene	11.125	105	7252	0.168	ppbv	#	63
73) 1,3,5-Trimethylbenzene	11.202	105	7522	0.198	ppbv		98
74) 1,2,4-Trimethylbenzene	11.532	105	21924	0.493	ppbv	#	63

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

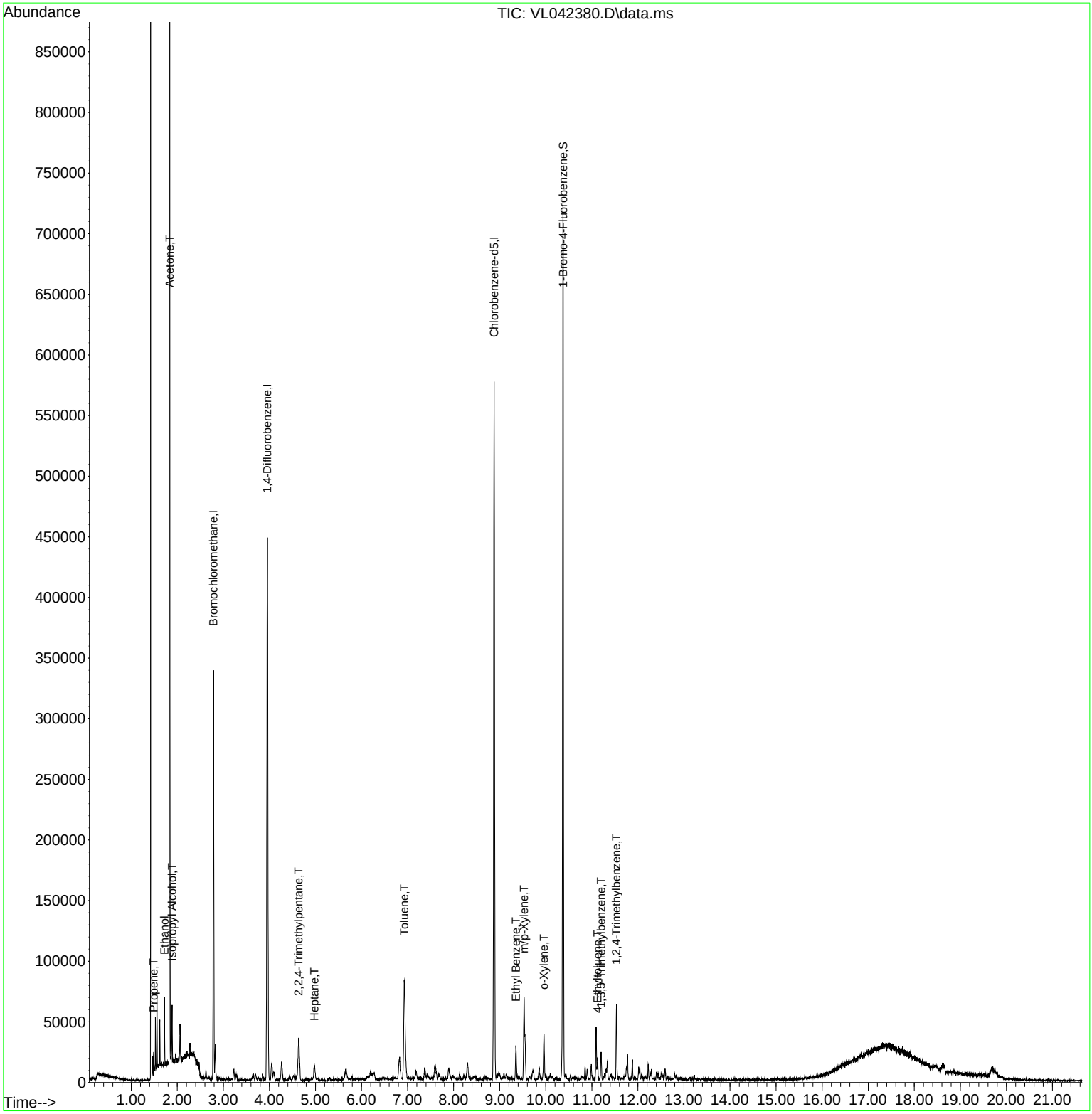
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042380.D
Acq On : 18 Apr 2025 03:34
Operator : SY/MD
Sample : Q1726-05DL 20X
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

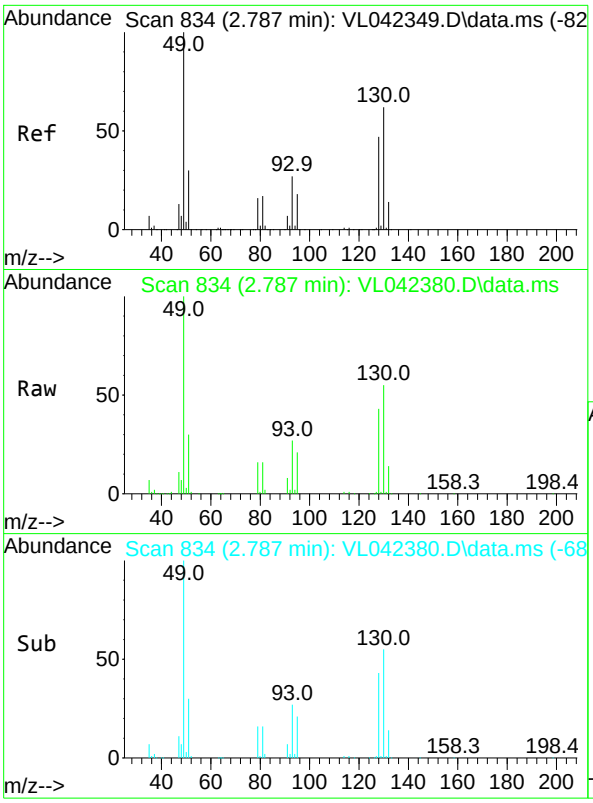
Quant Time: Apr 18 04:41:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025DL

Manual Integrations APPROVED

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

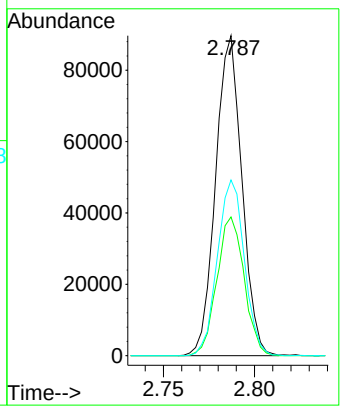




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 8
Delta R.T. 0.000 min
Lab File: VL042380.D
Acq: 18 Apr 2025 03:34

Tgt Ion: 49 Resp: 9003

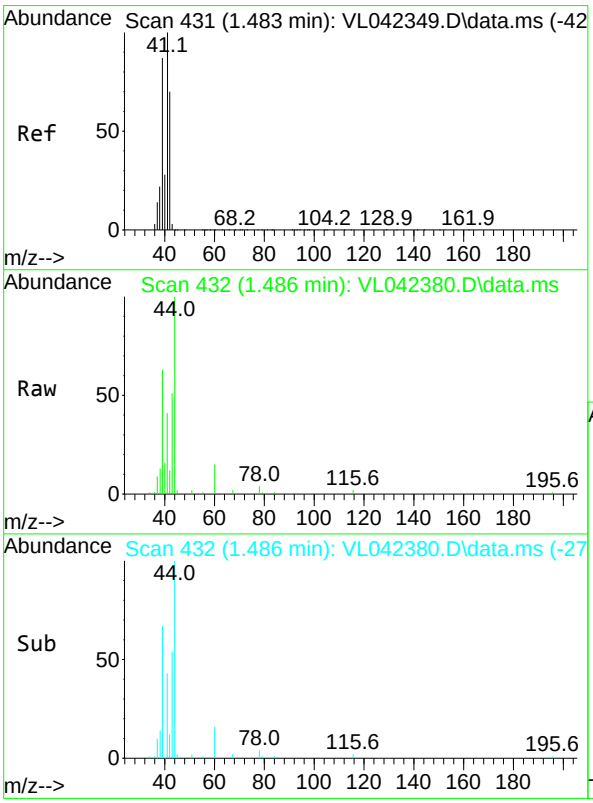
Ion	Ratio	Lower	Upper
49	100		
128	44.9	22.8	68.4
130	56.3	29.3	88.0



Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025DL

Manual Integrations
APPROVED

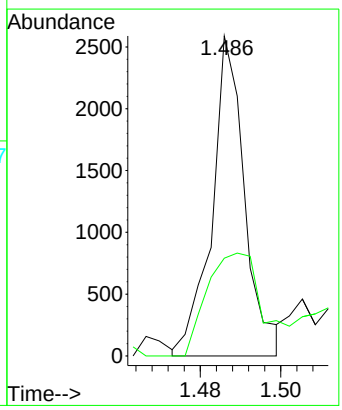
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

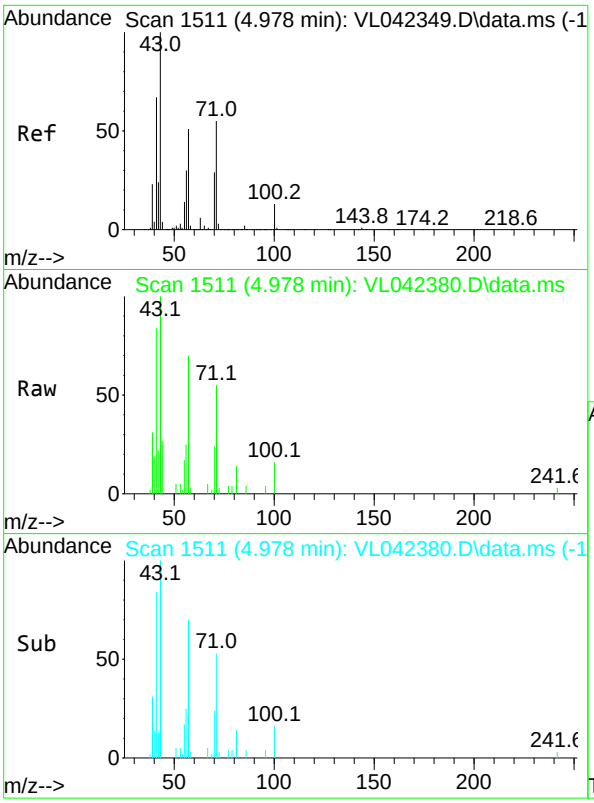


#9
Propene
Concen: 0.213 ppbv m
RT: 1.486 min Scan# 432
Delta R.T. 0.003 min
Lab File: VL042380.D
Acq: 18 Apr 2025 03:34

Tgt Ion: 41 Resp: 1466

Ion	Ratio	Lower	Upper
41	100		
42	369.4	56.2	84.4#

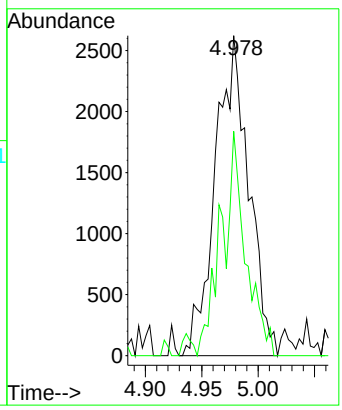




#10
Heptane
Concen: 0.278 ppbv m
RT: 4.978 min Scan# 1
Delta R.T. 0.000 min
Lab File: VL042380.D
Acq: 18 Apr 2025 03:34

Tgt Ion: 43 Resp: 539

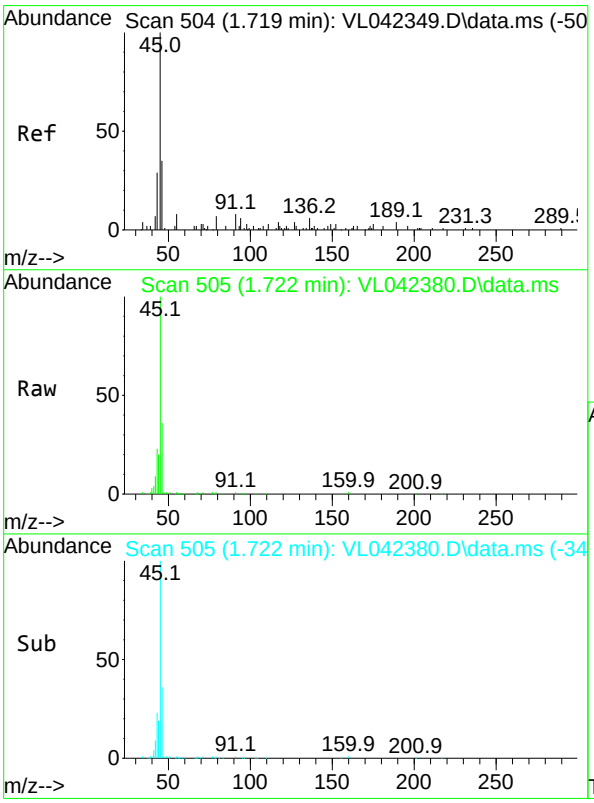
Ion	Ratio	Lower	Upper
43	100		
57	52.7	39.9	59.9



Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025DL

Manual Integrations
APPROVED

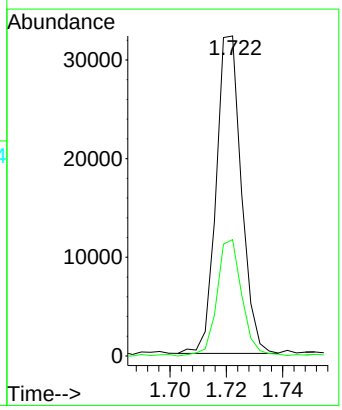
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

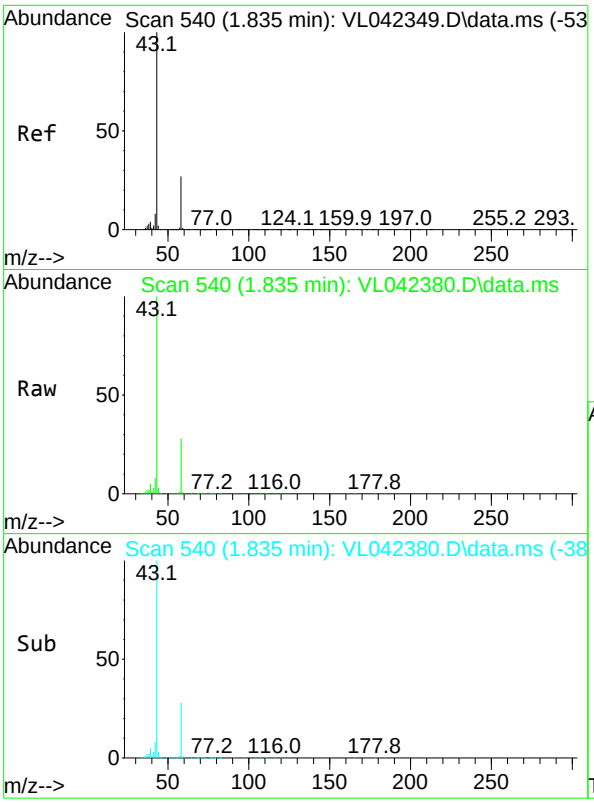


#13
Ethanol
Concen: 18.226 ppbv
RT: 1.722 min Scan# 505
Delta R.T. 0.003 min
Lab File: VL042380.D
Acq: 18 Apr 2025 03:34

Tgt Ion: 45 Resp: 19984

Ion	Ratio	Lower	Upper
45	100		
46	37.5	21.9	87.7

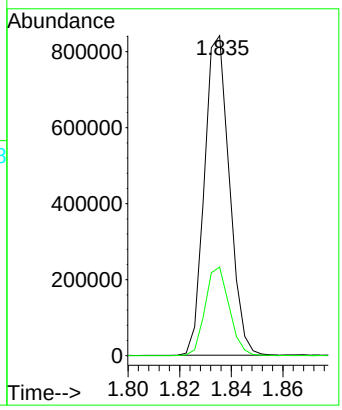




#15
Acetone
Concen: 38.247 ppbv
RT: 1.835 min Scan# 54
Delta R.T. 0.000 min
Lab File: VL042380.D
Acq: 18 Apr 2025 03:34

Tgt Ion: 43 Resp: 56371

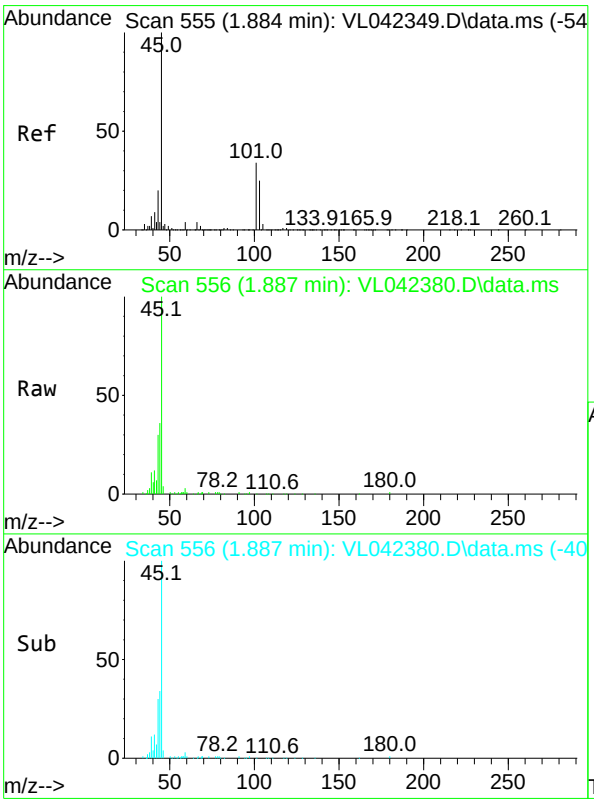
Ion	Ratio	Lower	Upper
43	100		
58	27.0	22.4	33.6



Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025DL

Manual Integrations
APPROVED

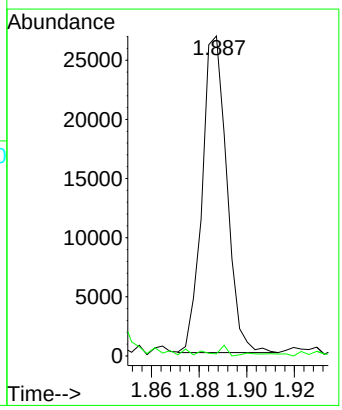
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

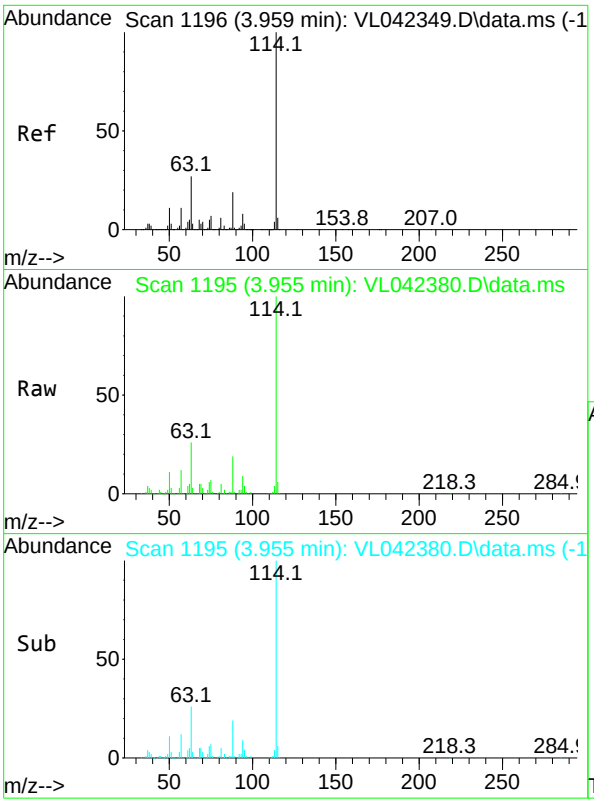


#19
Isopropyl Alcohol
Concen: 2.354 ppbv
RT: 1.887 min Scan# 556
Delta R.T. 0.003 min
Lab File: VL042380.D
Acq: 18 Apr 2025 03:34

Tgt Ion: 45 Resp: 19270

Ion	Ratio	Lower	Upper
45	100		
58	790.9	34.5	51.7#

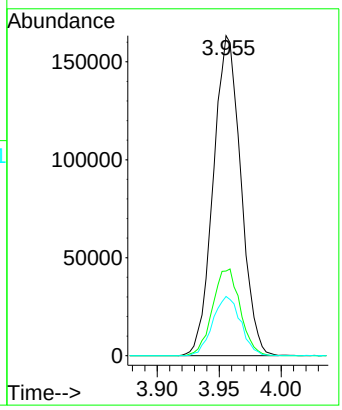




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.955 min Scan# 1
Delta R.T. -0.003 min
Lab File: VL042380.D
Acq: 18 Apr 2025 03:34

Tgt Ion:114 Resp: 25251

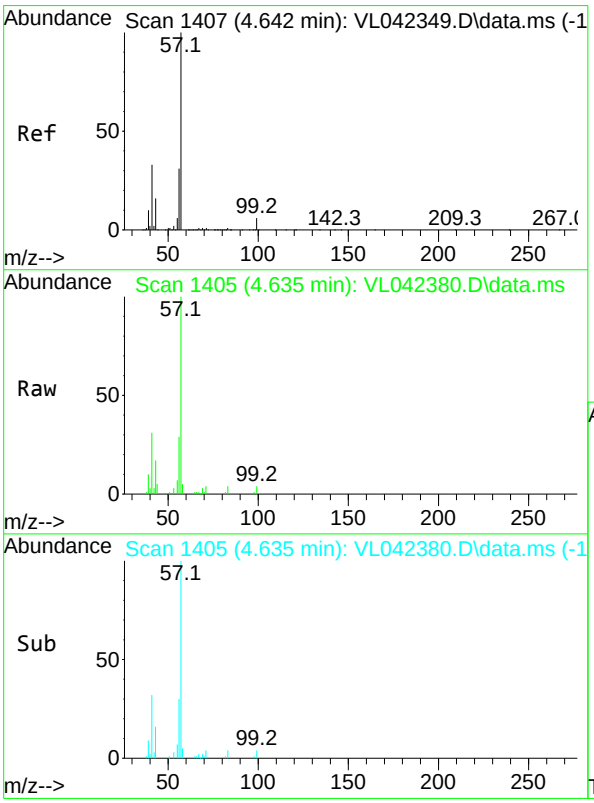
Ion	Ratio	Lower	Upper
114	100		
63	27.2	21.8	32.6
88	18.8	15.5	23.3



Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025DL

Manual Integrations
APPROVED

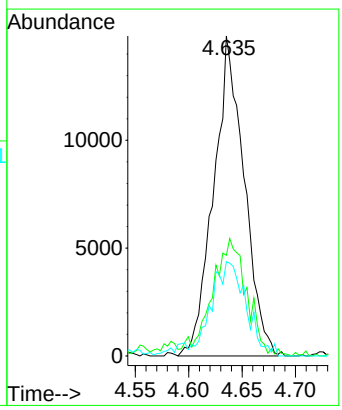
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

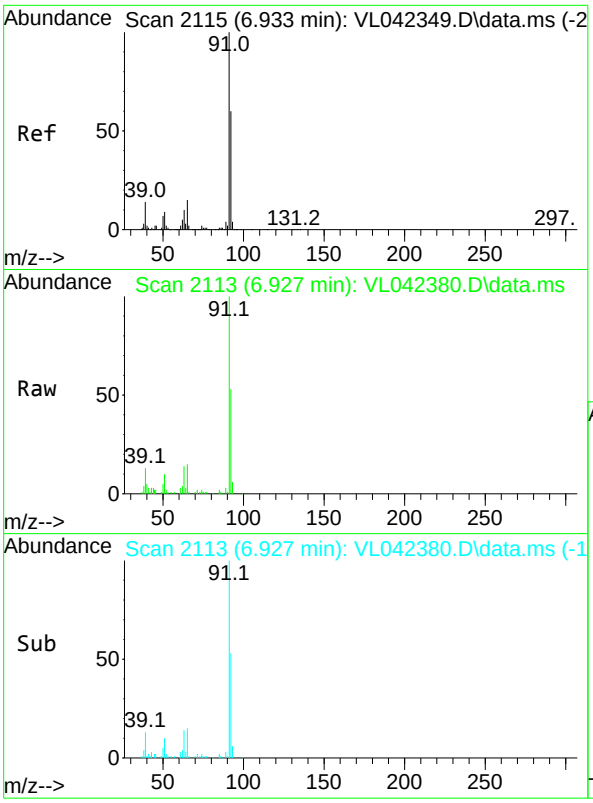


#44
2,2,4-Trimethylpentane
Concen: 0.626 ppbv
RT: 4.635 min Scan# 1405
Delta R.T. -0.006 min
Lab File: VL042380.D
Acq: 18 Apr 2025 03:34

Tgt Ion: 57 Resp: 29451

Ion	Ratio	Lower	Upper
57	100		
41	42.2	27.2	40.8#
56	35.5	25.7	38.5

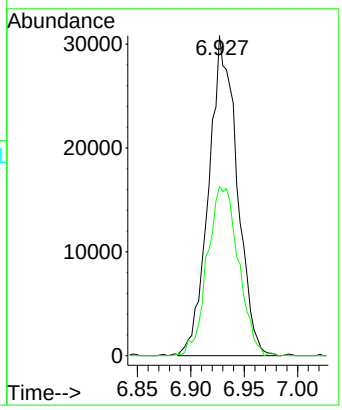




#53
Toluene
Concen: 1.745 ppbv
RT: 6.927 min Scan# 21
Delta R.T. -0.006 min
Lab File: VL042380.D
Acq: 18 Apr 2025 03:34

Tgt Ion: 91 Resp: 5704

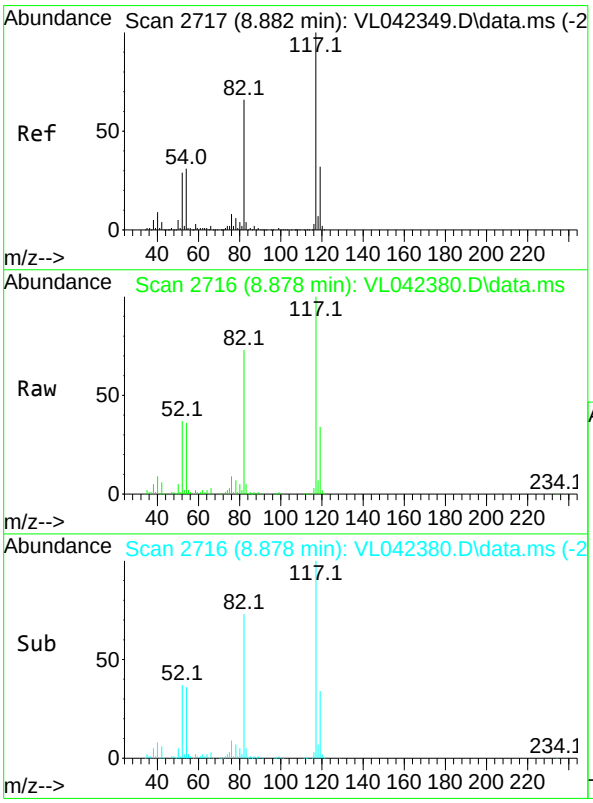
Ion	Ratio	Lower	Upper
91	100		
92	58.1	48.2	72.4



Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025DL

Manual Integrations
APPROVED

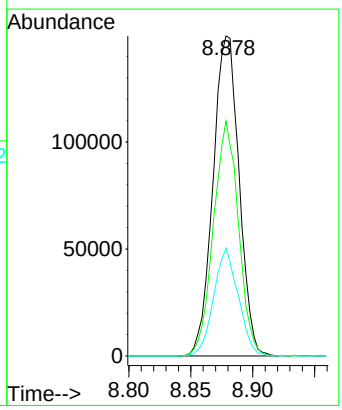
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

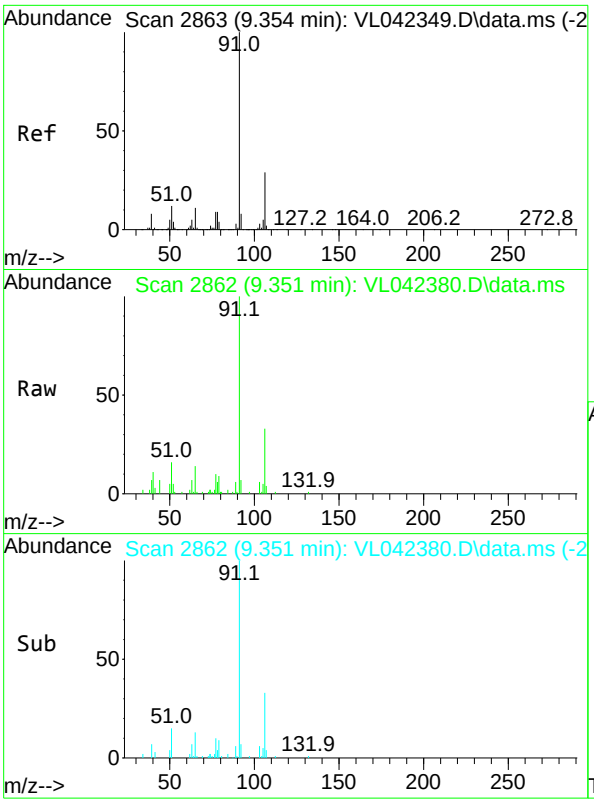


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.878 min Scan# 2716
Delta R.T. -0.003 min
Lab File: VL042380.D
Acq: 18 Apr 2025 03:34

Tgt Ion:117 Resp: 219443

Ion	Ratio	Lower	Upper
117	100		
82	70.4	57.8	86.6
119	31.8	25.2	37.8

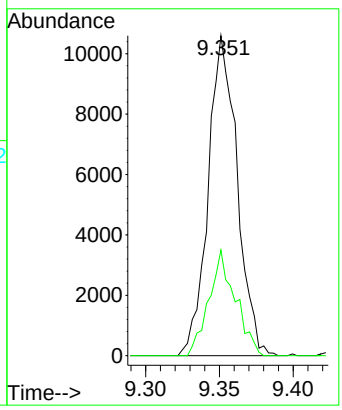




#58
Ethyl Benzene
Concen: 0.333 ppbv
RT: 9.351 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL042380.D
Acq: 18 Apr 2025 03:34

Tgt Ion: 91 Resp: 1449

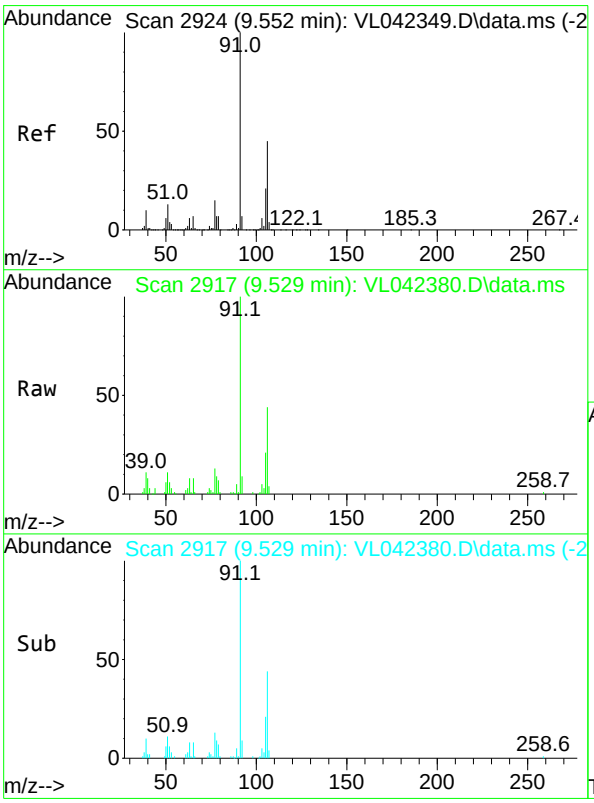
Ion	Ratio	Lower	Upper
91	100		
106	33.0	23.0	34.4



Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025DL

Manual Integrations
APPROVED

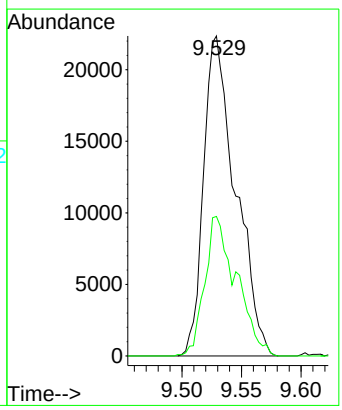
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

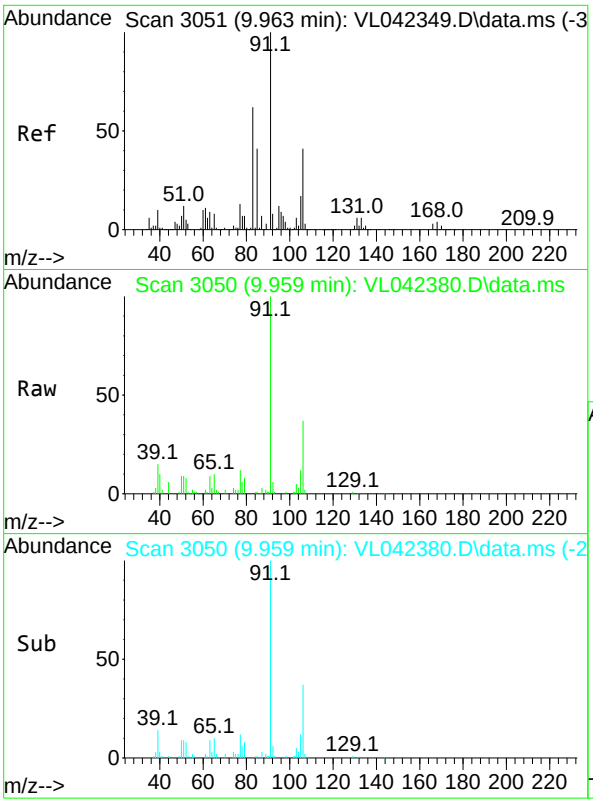


#59
m/p-Xylene
Concen: 1.196 ppbv
RT: 9.529 min Scan# 2917
Delta R.T. -0.023 min
Lab File: VL042380.D
Acq: 18 Apr 2025 03:34

Tgt Ion: 91 Resp: 41899

Ion	Ratio	Lower	Upper
91	100		
106	43.0	35.4	53.2

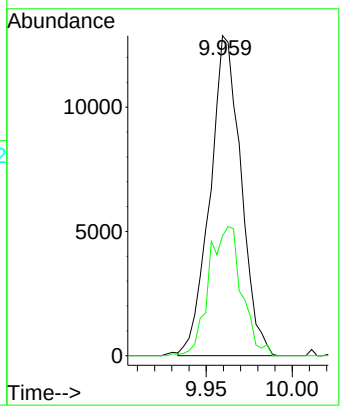




#60
o-Xylene
Concen: 0.457 ppbv
RT: 9.959 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042380.D
Acq: 18 Apr 2025 03:34

Tgt Ion: 91 Resp: 1612

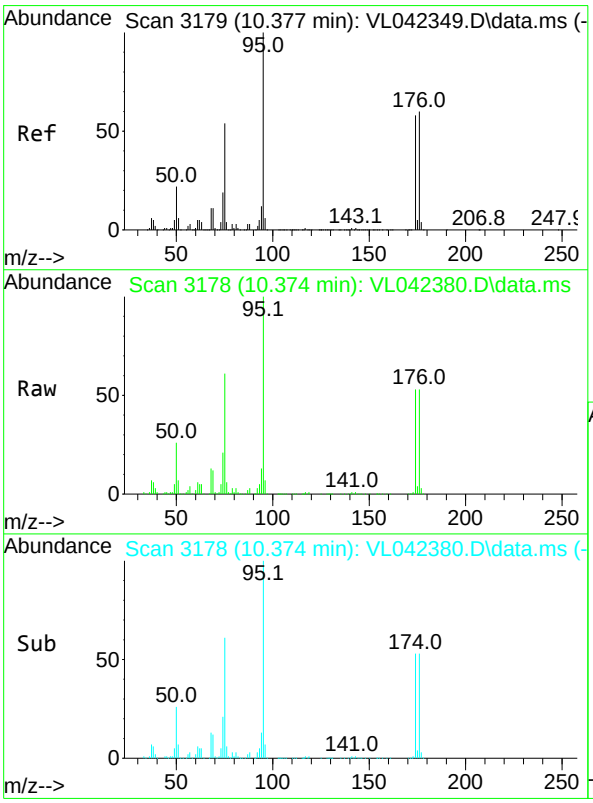
Ion	Ratio	Lower	Upper
91	100		
106	42.8	21.1	63.4



Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025DL

Manual Integrations
APPROVED

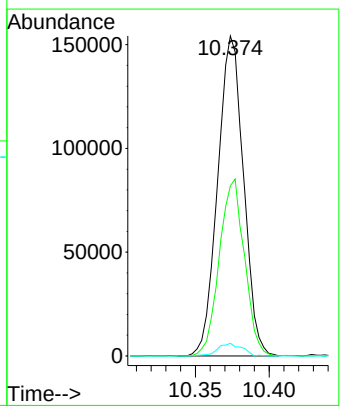
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

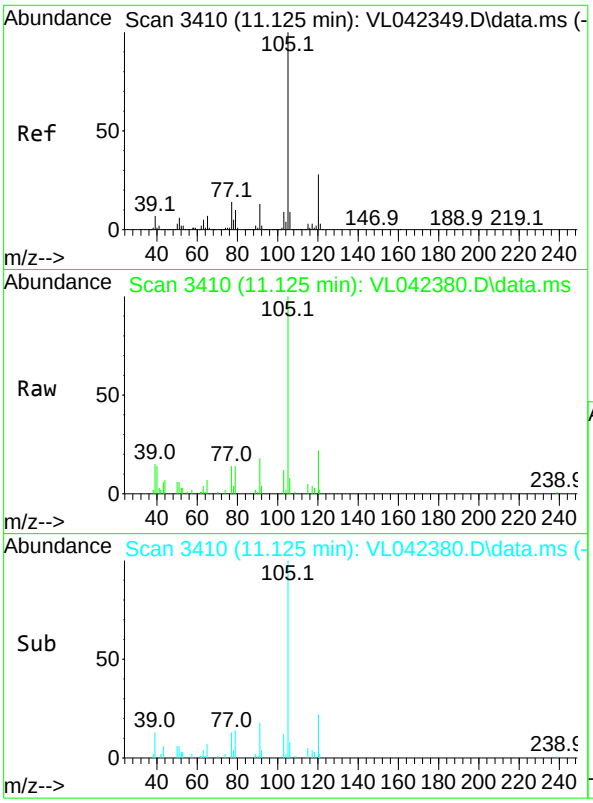


#68
1-Bromo-4-Fluorobenzene
Concen: 10.416 ppbv
RT: 10.374 min Scan# 3178
Delta R.T. -0.003 min
Lab File: VL042380.D
Acq: 18 Apr 2025 03:34

Tgt Ion: 95 Resp: 187830

Ion	Ratio	Lower	Upper
95	100		
174	53.9	48.5	72.7
175	3.8	3.7	5.5

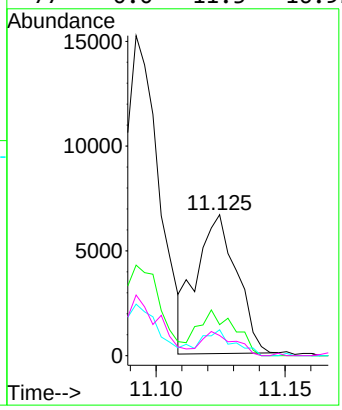




#72
4-Ethyltoluene
Concen: 0.168 ppbv
RT: 11.125 min Scan# 34
Delta R.T. 0.000 min
Lab File: VL042380.D
Acq: 18 Apr 2025 03:34

Tgt Ion:105 Resp: 725

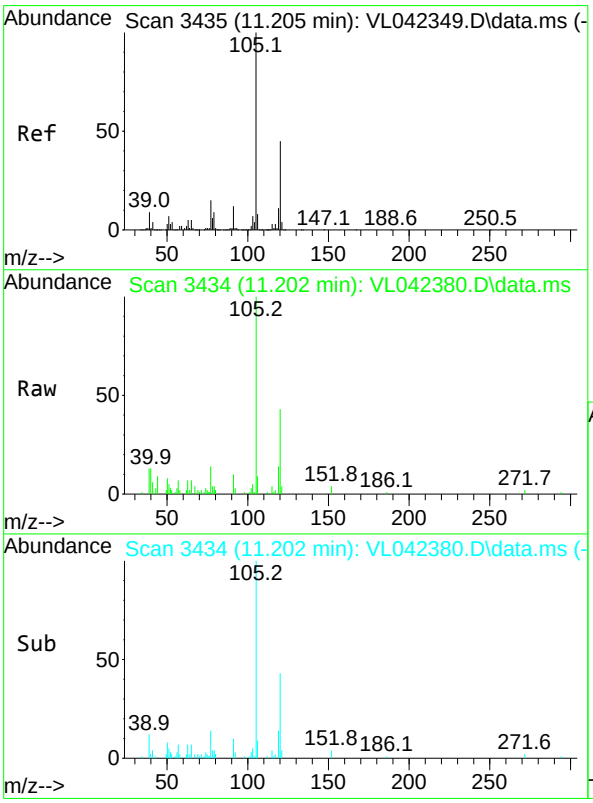
Ion	Ratio	Lower	Upper
105	100		
120	0.0	23.2	34.8#
91	13.8	10.4	15.6
77	0.0	11.3	16.9#



Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025DL

Manual Integrations
APPROVED

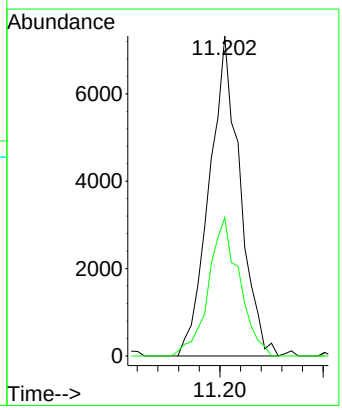
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

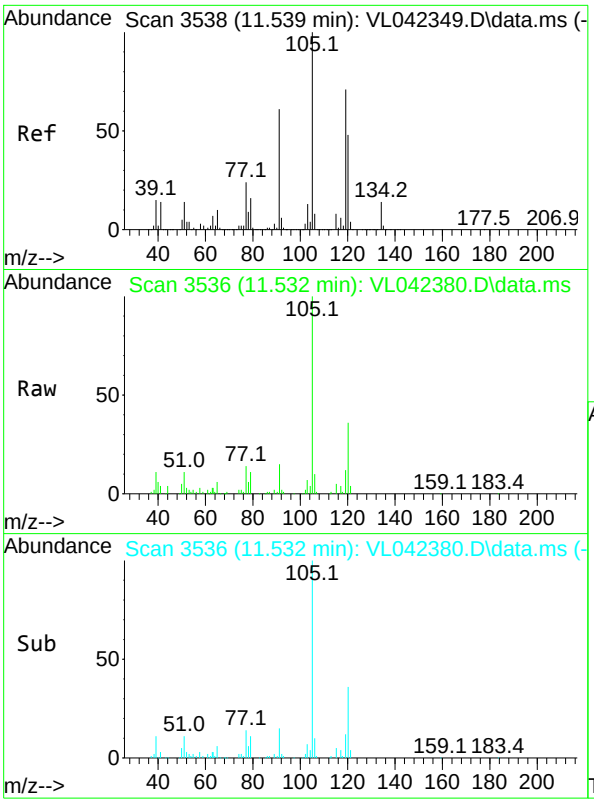


#73
1,3,5-Trimethylbenzene
Concen: 0.198 ppbv
RT: 11.202 min Scan# 3434
Delta R.T. -0.003 min
Lab File: VL042380.D
Acq: 18 Apr 2025 03:34

Tgt Ion:105 Resp: 7522

Ion	Ratio	Lower	Upper
105	100		
120	43.2	35.6	53.4

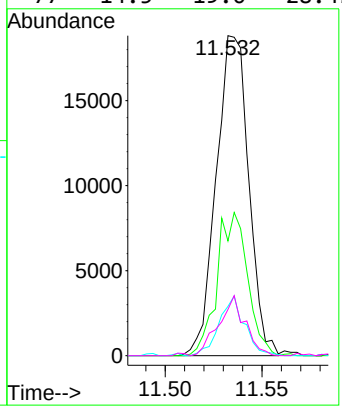




#74
1,2,4-Trimethylbenzene
Concen: 0.493 ppbv
RT: 11.532 min Scan# 3
Delta R.T. -0.006 min
Lab File: VL042380.D
Acq: 18 Apr 2025 03:34

Tgt Ion:105 Resp: 2192

Ion	Ratio	Lower	Upper
105	100		
120	35.8	38.1	57.1#
91	15.0	48.8	73.2#
77	14.5	19.0	28.4#



Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025DL

Manual Integrations
APPROVED

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

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

Report of Analysis

Client:	Woodard & Curran	Date Collected:	04/01/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	IA-B2-1-03312025DL2	SDG No.:	Q1726
Lab Sample ID:	Q1726-05DL2	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
VL042391.D	100		04/18/25 14:45	VL041825

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	21.0	104	UD	104	247	ug/m3
64-17-5	Ethanol	200	377	DQ	60.3	94.2	ug/m3
74-87-3	Chloromethane	9.80	20.2	UD	20.2	103	ug/m3
75-01-4	Vinyl Chloride	1.40	3.58	UD	3.58	7.67	ug/m3
74-83-9	Bromomethane	14.0	54.4	UD	54.4	194	ug/m3
75-00-3	Chloroethane	17.0	44.9	UD	44.9	132	ug/m3
109-99-9	Tetrahydrofuran	13.0	38.3	UDQ	38.3	147	ug/m3
75-69-4	Trichlorofluoromethane	16.0	89.9	UD	89.9	281	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	16.0	123	UD	123	383	ug/m3
76-14-2	Dichlorotetrafluoroethane	8.80	61.5	UD	61.5	349	ug/m3
593-60-2	Bromoethene	12.0	52.5	UD	52.5	219	ug/m3
75-65-0	tert-Butyl alcohol	19.0	57.6	UD	57.6	152	ug/m3
142-82-5	Heptane	11.0	45.1	UDQ	45.1	205	ug/m3
67-63-0	Isopropyl Alcohol	29.5	72.5	JD	17.0	123	ug/m3
75-35-4	1,1-Dichloroethene	14.0	55.5	UD	55.5	198	ug/m3
67-64-1	Acetone	510	1210	D	57.0	119	ug/m3
75-15-0	Carbon Disulfide	16.0	49.8	UD	49.8	156	ug/m3
1634-04-4	Methyl tert-Butyl Ether	12.0	43.3	UD	43.3	180	ug/m3
75-09-2	Methylene Chloride	19.0	66.0	UD	66.0	174	ug/m3
156-60-5	trans-1,2-Dichloroethene	19.0	75.3	UD	75.3	198	ug/m3
75-34-3	1,1-Dichloroethane	13.0	52.6	UD	52.6	202	ug/m3
110-82-7	Cyclohexane	22.0	75.7	UD	75.7	172	ug/m3
78-93-3	2-Butanone	12.0	35.4	UD	35.4	147	ug/m3
56-23-5	Carbon Tetrachloride	1.10	6.92	UD	6.92	18.9	ug/m3
156-59-2	cis-1,2-Dichloroethene	8.90	35.3	UD	35.3	198	ug/m3
67-66-3	Chloroform	8.30	40.5	UD	40.5	244	ug/m3
71-55-6	1,1,1-Trichloroethane	0.95	5.18	UD	5.18	16.4	ug/m3
540-84-1	2,2,4-Trimethylpentane	10.0	46.7	UD	46.7	234	ug/m3
71-43-2	Benzene	8.70	27.8	UD	27.8	160	ug/m3
107-06-2	1,2-Dichloroethane	9.10	36.8	UD	36.8	202	ug/m3
79-01-6	Trichloroethene	1.70	9.14	UD	9.14	16.1	ug/m3
78-87-5	1,2-Dichloropropane	11.0	50.8	UD	50.8	231	ug/m3
75-27-4	Bromodichloromethane	7.70	51.6	UD	51.6	335	ug/m3
108-10-1	4-Methyl-2-Pentanone	9.30	38.1	UD	38.1	205	ug/m3
108-88-3	Toluene	19.4	73.1	JD	41.5	188	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:	04/01/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	IA-B2-1-03312025DL2	SDG No.:	Q1726
Lab Sample ID:	Q1726-05DL2	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
VL042391.D	100		04/18/25 14:45	VL041825

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	6.00	27.2	UD	27.2	227	ug/m3
10061-01-5	cis-1,3-Dichloropropene	6.40	29.1	UD	29.1	227	ug/m3
79-00-5	1,1,2-Trichloroethane	7.10	38.7	UD	38.7	273	ug/m3
124-48-1	Dibromochloromethane	6.60	56.2	UD	56.2	426	ug/m3
106-93-4	1,2-Dibromoethane	7.20	55.3	UD	55.3	76.8	ug/m3
127-18-4	Tetrachloroethene	1.50	10.2	UD	10.2	20.3	ug/m3
108-90-7	Chlorobenzene	7.60	35.0	UD	35.0	230	ug/m3
100-41-4	Ethyl Benzene	12.0	52.1	UD	52.1	217	ug/m3
179601-23-1	m/p-Xylene	21.0	91.2	UD	91.2	434	ug/m3
95-47-6	o-Xylene	12.0	52.1	UD	52.1	217	ug/m3
100-42-5	Styrene	11.0	46.8	UD	46.8	213	ug/m3
75-25-2	Bromoform	5.70	58.9	UD	58.9	517	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	1.10	7.55	UD	7.55	20.6	ug/m3
95-49-8	2-Chlorotoluene	11.0	57.0	UD	57.0	259	ug/m3
108-67-8	1,3,5-Trimethylbenzene	11.0	54.1	UD	54.1	246	ug/m3
95-63-6	1,2,4-Trimethylbenzene	7.80	38.4	UD	38.4	246	ug/m3
541-73-1	1,3-Dichlorobenzene	8.00	48.1	UD	48.1	301	ug/m3
106-46-7	1,4-Dichlorobenzene	5.30	31.9	UD	31.9	301	ug/m3
95-50-1	1,2-Dichlorobenzene	7.50	45.1	UD	45.1	301	ug/m3
120-82-1	1,2,4-Trichlorobenzene	8.50	63.1	UD	63.1	371	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	8.50	90.7	UD	90.7	533	ug/m3
106-99-0	1,3-Butadiene	13.0	28.8	UD	28.8	111	ug/m3
91-20-3	Naphthalene	7.50	39.3	UD	39.3	52.4	ug/m3
622-96-8	4-Ethyltoluene	12.0	59.0	UD	59.0	246	ug/m3
110-54-3	Hexane	11.0	38.8	UD	38.8	176	ug/m3
107-05-1	Allyl Chloride	15.0	47.0	UD	47.0	157	ug/m3
123-91-1	1,4-Dioxane	21.0	75.7	UD	75.7	180	ug/m3
80-62-6	Methyl Methacrylate	8.60	35.2	UDQ	35.2	205	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	126000		2.787			
540-36-3	1,4-Difluorobenzene	390000		3.959			
3114-55-4	Chlorobenzene-d5	328000		8.882			

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

Report of Analysis

Client:	Woodard & Curran	Date Collected:	04/01/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	IA-B2-1-03312025DL2	SDG No.:	Q1726
Lab Sample ID:	Q1726-05DL2	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
VL042391.D	100		04/18/25 14:45	VL041825

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\VL041825\
Data File : VL042391.D
Acq On : 18 Apr 2025 14:45
Operator : SY/MD
Sample : Q1726-05DL2 100X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 18 22:59:44 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-B2-1-03312025DL2

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.787	49	125703	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	390416	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.882	117	327579	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	273896	10.175	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 101.700%			
Target Compounds						Qvalue
13) Ethanol	1.722	45	3027	1.977	ppbv	# 24
15) Acetone	1.835	43	104075	5.058	ppbv	99
19) Isopropyl Alcohol	1.890	45	3377	0.295	ppbv	# 1
53) Toluene	6.936	91	9781m	0.194	ppbv	
59) m/p-Xylene	9.529	91	6487m	0.124	ppbv	

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

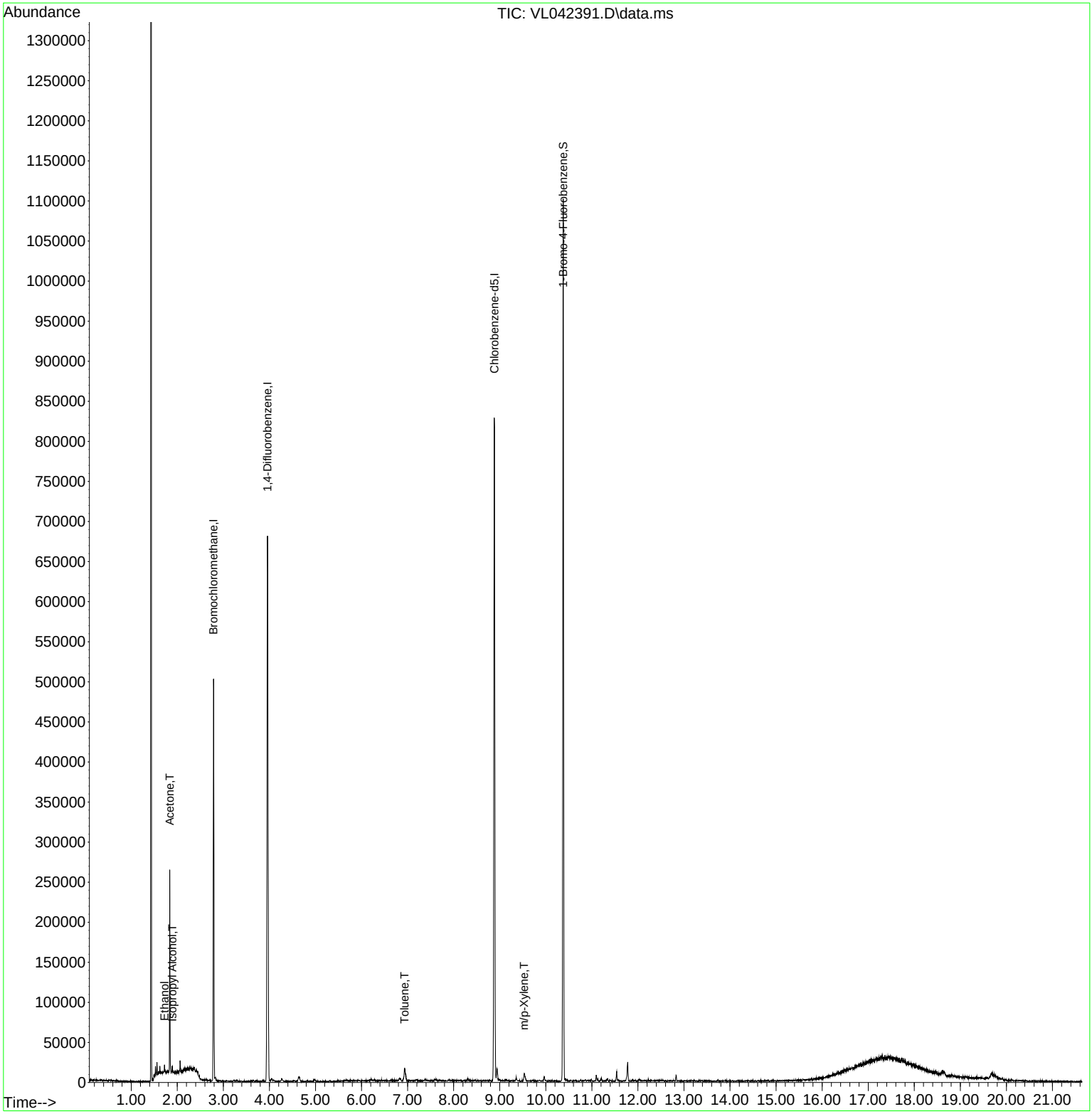
Quantitation Report (QT Reviewed)

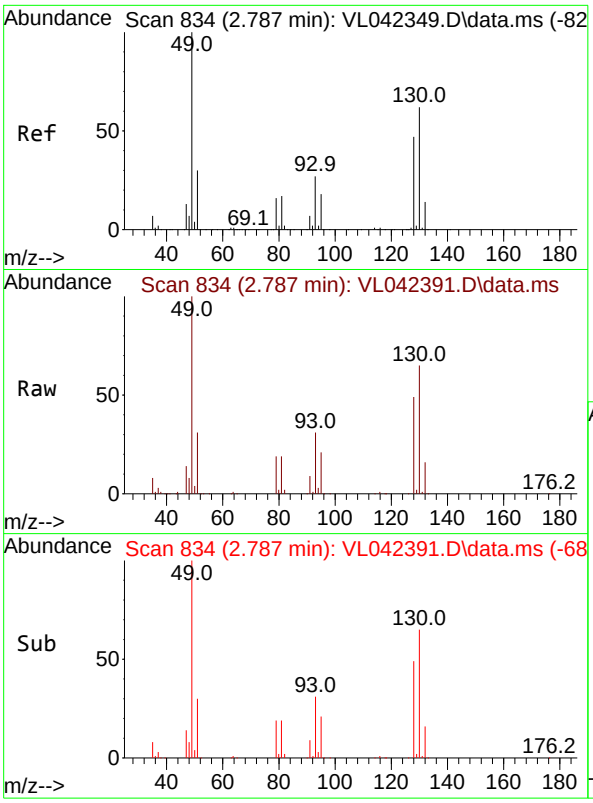
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041825\
Data File : VL042391.D
Acq On : 18 Apr 2025 14:45
Operator : SY/MD
Sample : Q1726-05DL2 100X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 18 22:59:44 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-B2-1-03312025DL2

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL042391.D
Acq: 18 Apr 2025 14:45

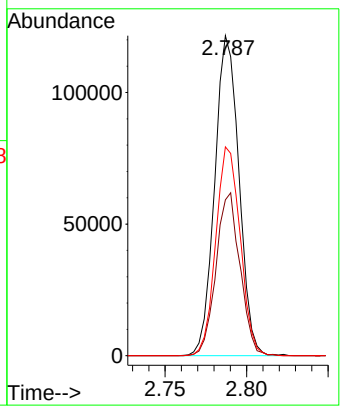
Tgt Ion: 49 Resp: 12570

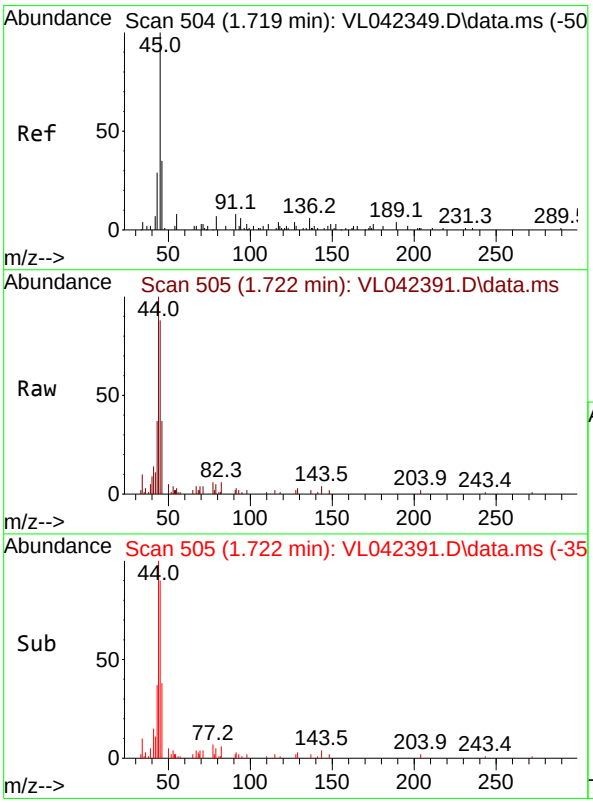
Ion	Ratio	Lower	Upper
49	100		
128	50.5	22.8	68.4
130	65.7	29.3	88.0

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025DL2

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025

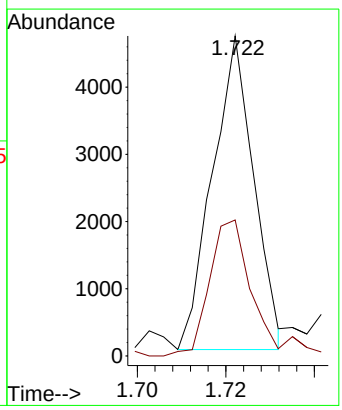


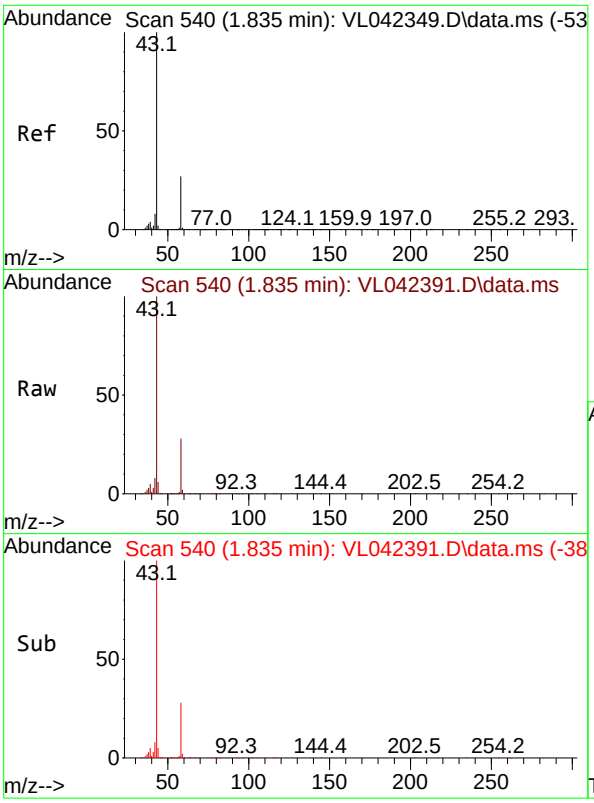


#13
Ethanol
Concen: 1.977 ppbv
RT: 1.722 min Scan# 505
Delta R.T. 0.003 min
Lab File: VL042391.D
Acq: 18 Apr 2025 14:45

Tgt Ion: 45 Resp: 3027

Ion	Ratio	Lower	Upper
45	100		
46	0.0	21.9	87.7#





#15
Acetone
Concen: 5.058 ppbv
RT: 1.835 min Scan# 54
Delta R.T. 0.000 min
Lab File: VL042391.D
Acq: 18 Apr 2025 14:45

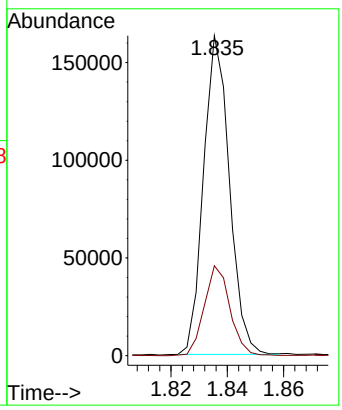
Tgt Ion: 43 Resp: 10407

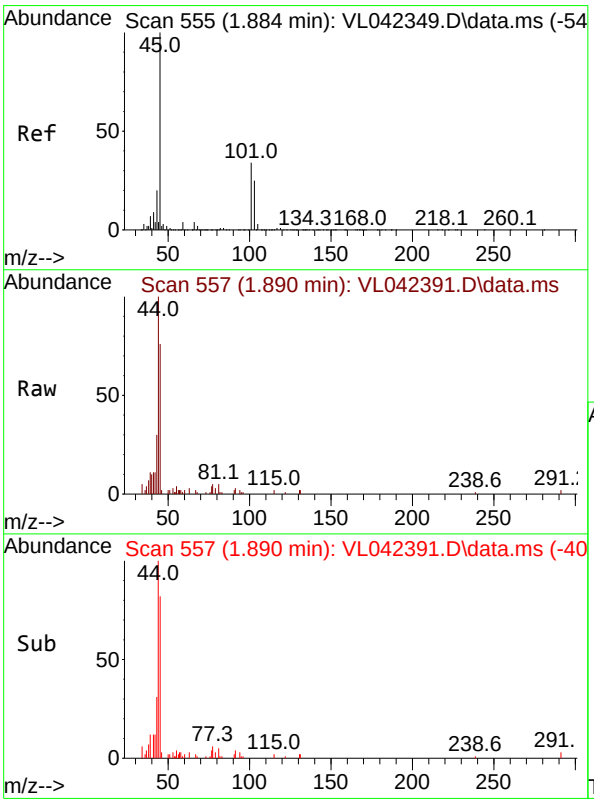
Ion	Ratio	Lower	Upper
43	100		
58	28.5	22.4	33.6

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025DL2

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025

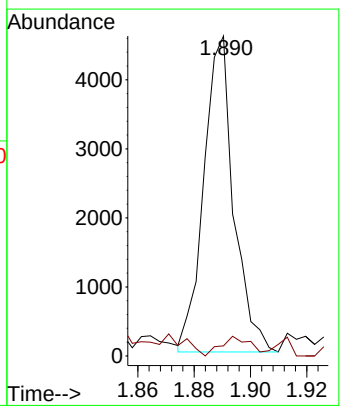


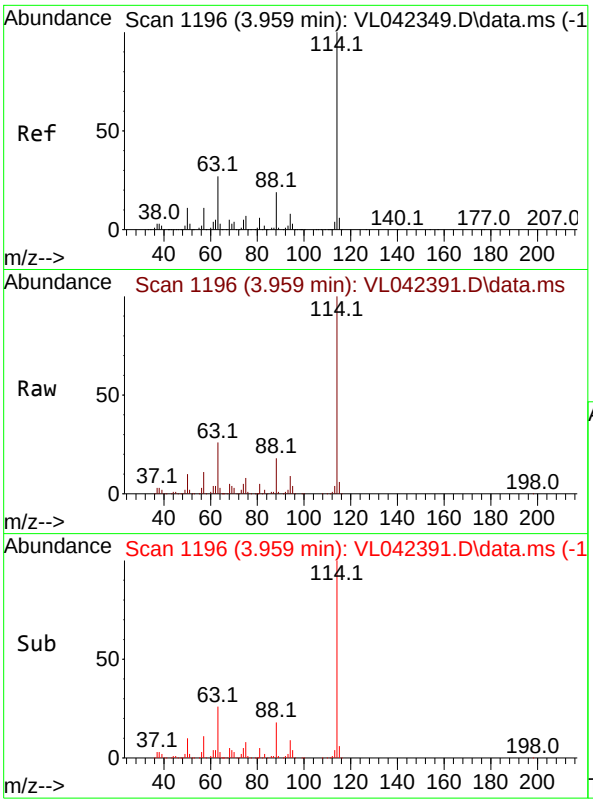


#19
Isopropyl Alcohol
Concen: 0.295 ppbv
RT: 1.890 min Scan# 557
Delta R.T. 0.006 min
Lab File: VL042391.D
Acq: 18 Apr 2025 14:45

Tgt Ion: 45 Resp: 3377

Ion	Ratio	Lower	Upper
45	100		
58	879.1	34.5	51.7#

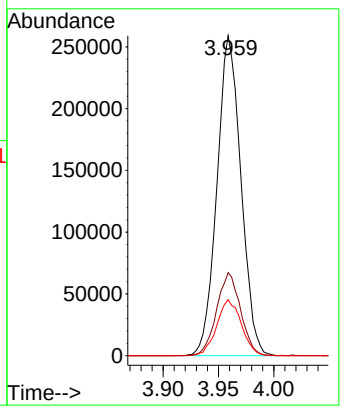




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.959 min Scan# 1
Delta R.T. 0.000 min
Lab File: VL042391.D
Acq: 18 Apr 2025 14:45

Tgt Ion:114 Resp: 39041

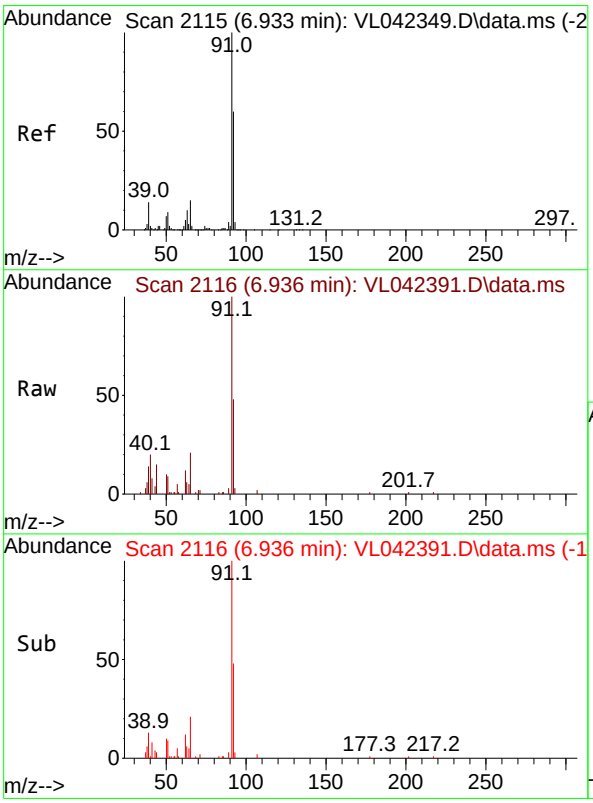
Ion	Ratio	Lower	Upper
114	100		
63	25.9	21.8	32.6
88	17.9	15.5	23.3



Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025DL2

Manual Integrations
APPROVED

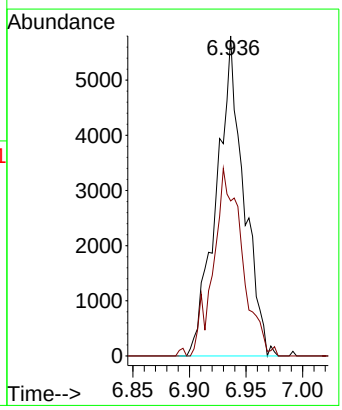
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025

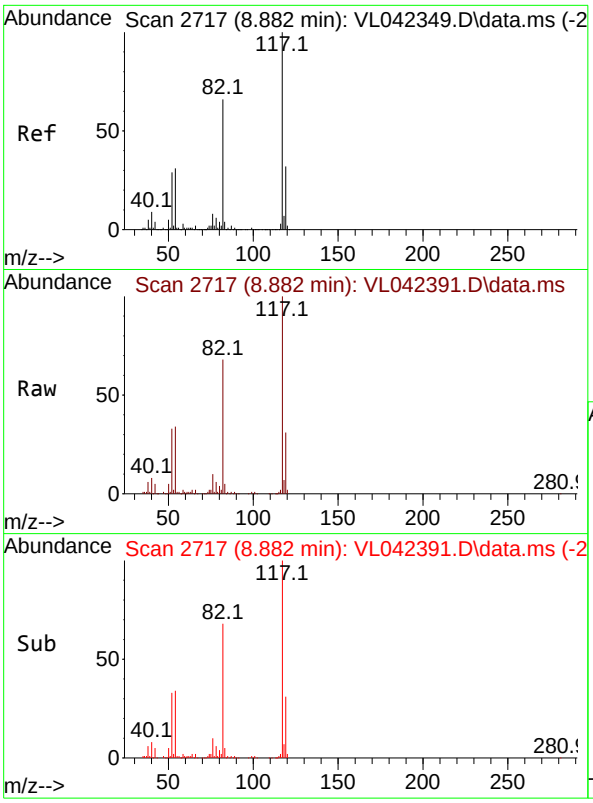


#53
Toluene
Concen: 0.194 ppbv m
RT: 6.936 min Scan# 2116
Delta R.T. 0.003 min
Lab File: VL042391.D
Acq: 18 Apr 2025 14:45

Tgt Ion: 91 Resp: 9781

Ion	Ratio	Lower	Upper
91	100		
92	62.0	48.2	72.4

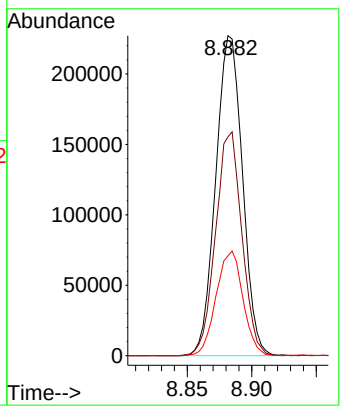




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.882 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042391.D
Acq: 18 Apr 2025 14:45

Tgt Ion:117 Resp: 32757

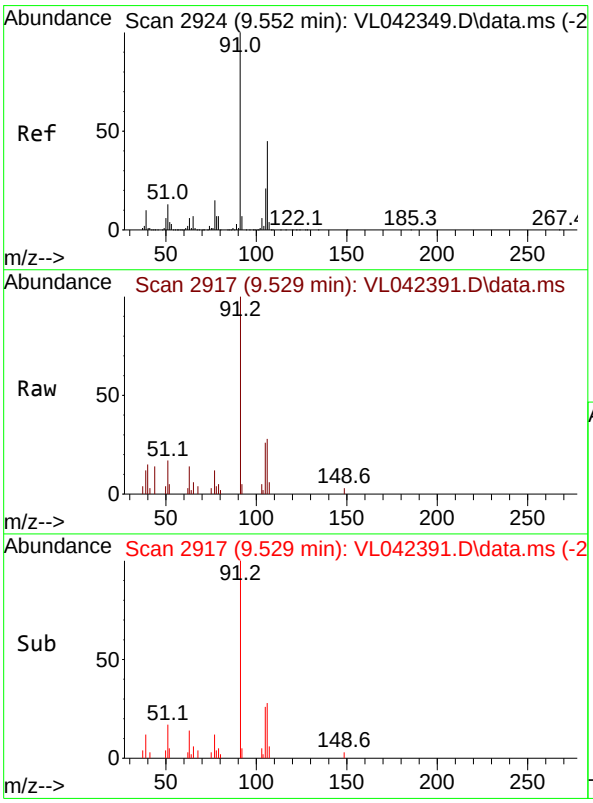
Ion	Ratio	Lower	Upper
117	100		
82	68.9	57.8	86.6
119	32.8	25.2	37.8



Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025DL2

Manual Integrations
APPROVED

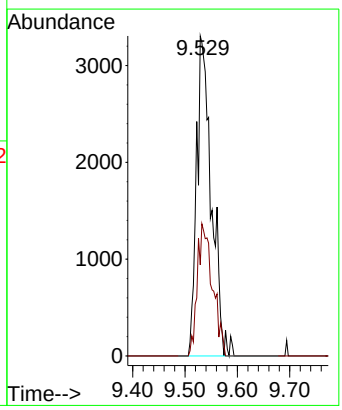
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025

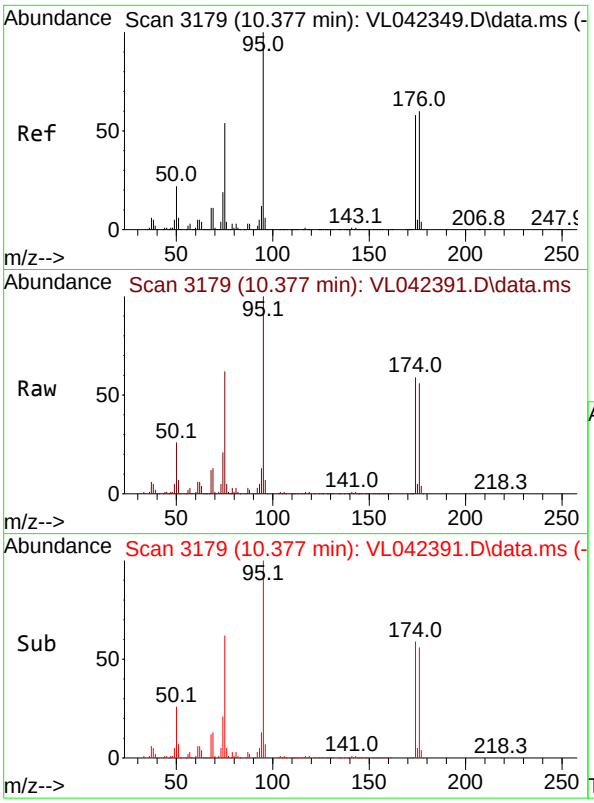


#59
m/p-Xylene
Concen: 0.124 ppbv m
RT: 9.529 min Scan# 2917
Delta R.T. -0.023 min
Lab File: VL042391.D
Acq: 18 Apr 2025 14:45

Tgt Ion: 91 Resp: 6487

Ion	Ratio	Lower	Upper
91	100		
106	0.0	35.4	53.2#

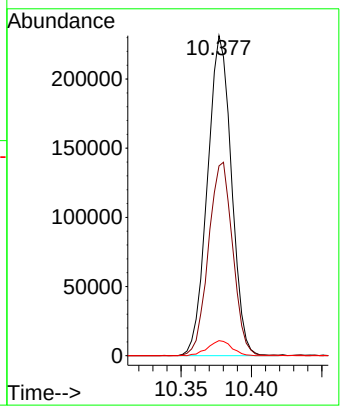




#68
1-Bromo-4-Fluorobenzene
Concen: 10.175 ppbv
RT: 10.377 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042391.D
Acq: 18 Apr 2025 14:45

Tgt Ion: 95 Resp: 27389

Ion	Ratio	Lower	Upper
95	100		
174	61.3	48.5	72.7
175	4.7	3.7	5.5



Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025DL2

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025

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

Report of Analysis

Client:	Woodard & Curran	Date Collected:	04/01/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	IA-B2-3-03312025	SDG No.:	Q1726
Lab Sample ID:	Q1726-06	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
VL042371.D	1		04/17/25 22:52	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
64-17-5	Ethanol	310	584	EQ	0.60	0.94	ug/m3
74-87-3	Chloromethane	1.20	2.48		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	0.36	1.06	J	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
593-60-2	Bromoethene	0.12	0.52	U	0.52	2.19	ug/m3
75-65-0	tert-Butyl alcohol	0.69	2.09		0.58	1.52	ug/m3
142-82-5	Heptane	3.40	13.9		0.45	2.05	ug/m3
67-63-0	Isopropyl Alcohol	34.5	84.8	E	0.17	1.23	ug/m3
75-35-4	1,1-Dichloroethene	0.14	0.56	U	0.56	1.98	ug/m3
67-64-1	Acetone	170	404	E	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	3.20	11.1		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	1.10	3.79		0.76	1.72	ug/m3
78-93-3	2-Butanone	2.10	6.19		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	0.15	0.73	J	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	9.40	43.9		0.47	2.34	ug/m3
71-43-2	Benzene	1.10	3.51		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	22.3	84.0	E	0.41	1.88	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:	04/01/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	IA-B2-3-03312025	SDG No.:	Q1726
Lab Sample ID:	Q1726-06	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
VL042371.D	1		04/17/25 22:52	VL041725

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
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
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	0.14	0.95		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	4.30	18.7		0.52	2.17	ug/m3
179601-23-1	m/p-Xylene	14.9	64.7		0.91	4.34	ug/m3
95-47-6	o-Xylene	5.80	25.2		0.52	2.17	ug/m3
100-42-5	Styrene	0.39	1.66	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	0.84	4.35		0.57	2.59	ug/m3
108-67-8	1,3,5-Trimethylbenzene	2.60	12.8		0.54	2.46	ug/m3
95-63-6	1,2,4-Trimethylbenzene	7.20	35.4		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	0.20	1.20	J	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	0.45	2.36		0.42	0.52	ug/m3
622-96-8	4-Ethyltoluene	2.10	10.3		0.59	2.46	ug/m3
110-54-3	Hexane	3.50	12.3		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	113000		2.787			
540-36-3	1,4-Difluorobenzene	323000		3.959			
3114-55-4	Chlorobenzene-d5	284000		8.882			
TENTITIVE IDENTIFIED COMPOUNDS							

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

Report of Analysis

Client:	Woodard & Curran	Date Collected:	04/01/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	IA-B2-3-03312025	SDG No.:	Q1726
Lab Sample ID:	Q1726-06	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
VL042371.D	1		04/17/25 22:52	VL041725

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
75-45-6	Chlorodifluoromethane	0.31		J		1.47	ppbv
115-07-1	Propene	3.00		J		1.49	ppbv
000106-97-8	Butane	9.00		J		1.62	ppbv
000071-23-8	1-Propanol	5.60		J		2.28	ppbv
000107-83-5	Pentane, 2-methyl-	3.80		J		2.47	ppbv
000096-37-7	Cyclopentane, methyl-	4.30		J		3.23	ppbv
000591-76-4	Hexane, 2-methyl-	4.40		J		4.05	ppbv
000589-34-4	Hexane, 3-methyl-	5.00		J		4.27	ppbv
000108-87-2	Cyclohexane, methyl-	4.20		J		5.67	ppbv
000565-75-3	Pentane, 2,3,4-trimethyl-	6.20		J		6.83	ppbv
000589-81-1	Heptane, 3-methyl-	3.80		J		7.60	ppbv
000111-65-9	Octane	4.70		J		8.30	ppbv
98-82-8	Isopropylbenzene	0.39		J		10.5	ppbv
103-65-1	n-propylbenzene	1.30		J		11.0	ppbv
99-87-6	p-Isopropyltoluene	0.31		J		11.9	ppbv
104-51-8	n-Butylbenzene	0.43		J		12.3	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 : VL042371.D
Acq On : 17 Apr 2025 22:52
Operator : SY/MD
Sample : Q1726-06
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 18 02:45:58 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 :
IA-B2-3-03312025

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	113154	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.959	114	322735	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.882	117	284478	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.377	95	237949	10.179	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 101.800%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.499	85	9517	0.476	ppbv		98
3) Chlorodifluoromethane	1.473	51	5944m	0.312	ppbv		
4) Chloromethane	1.534	50	9764	1.234	ppbv		98
9) Propene	1.489	41	26287m	3.032	ppbv		
10) Heptane	4.981	43	82673	3.394	ppbv		99
11) Trichlorofluoromethane	1.874	101	4499	0.237	ppbv	#	83
13) Ethanol	1.722	45	429340	311.565	ppbv		75
15) Acetone	1.835	43	3062508	165.330	ppbv	#	44
17) tert-Butyl alcohol	2.043	59	15845m	0.690	ppbv		
19) Isopropyl Alcohol	1.887	45	355287	34.527	ppbv	#	33
20) Methylene Chloride	2.062	84	22966	3.166	ppbv		89
26) Hexane	2.826	57	65232	3.529	ppbv	#	37
29) Chloroform	2.852	83	3991	0.153	ppbv		86
30) Cyclohexane	3.855	84	16571	1.109	ppbv	#	84
34) 2-Butanone	2.560	43	54027	2.117	ppbv		99
35) Carbon Tetrachloride	3.764	117	2319	0.079	ppbv		84
36) Benzene	3.661	78	36905	1.060	ppbv		96
41) Tetrahydrofuran	3.065	42	5385m	0.362	ppbv		
44) 2,2,4-Trimethylpentane	4.645	57	567345	9.437	ppbv		95
52) Tetrachloroethene	8.228	164	1944m	0.144	ppbv		
53) Toluene	6.936	91	931135	22.290	ppbv		99
58) Ethyl Benzene	9.357	91	239708	4.253	ppbv		98
59) m/p-Xylene	9.532	91	678219	14.937	ppbv		100
60) o-Xylene	9.966	91	265965	5.817	ppbv		99
61) Styrene	9.872	104	8564	0.392	ppbv		95
62) Isopropylbenzene	10.539	105	26216	0.391	ppbv		99
64) n-propylbenzene	10.992	120	21875	1.296	ppbv		95
69) p-Isopropyltoluene	11.927	119	23201	0.311	ppbv		94
70) n-Butylbenzene	12.283	91	33438m	0.431	ppbv		
71) 2-Chlorotoluene	10.901	91	44364	0.843	ppbv		96
72) 4-Ethyltoluene	11.125	105	117824	2.108	ppbv	#	56
73) 1,3,5-Trimethylbenzene	11.205	105	128254	2.599	ppbv		99
74) 1,2,4-Trimethylbenzene	11.536	105	415758	7.213	ppbv	#	63
76) 1,4-Dichlorobenzene	11.675	146	6136	0.204	ppbv		82
79) Naphthalene	13.516	128	31283	0.454	ppbv	#	95
80) Naphthalene,2-methyl-	14.461	142	5013	0.128	ppbv	#	88

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

Quantitation Report (LSC Reviewed)

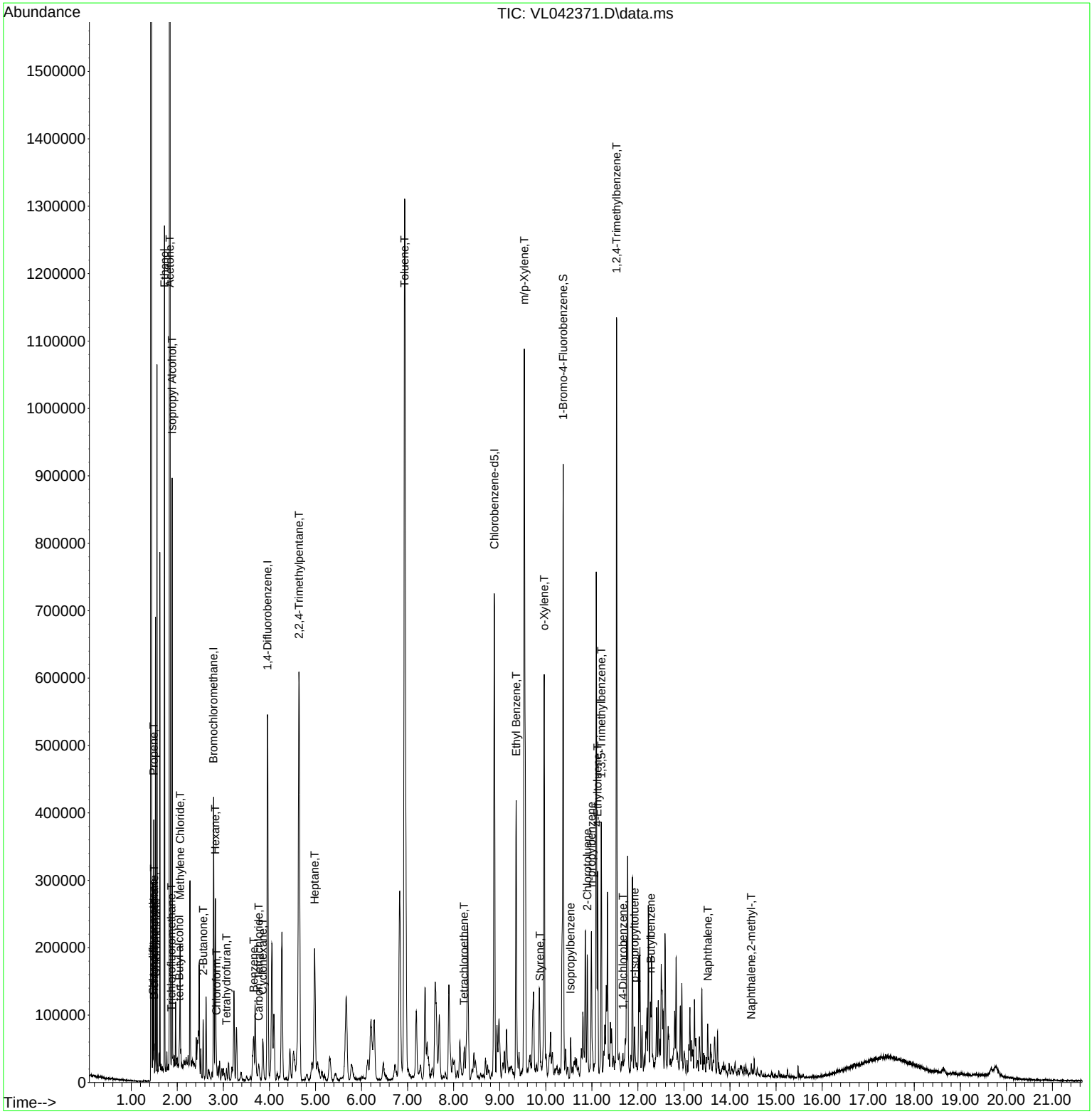
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042371.D
Acq On : 17 Apr 2025 22:52
Operator : SY/MD
Sample : Q1726-06
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

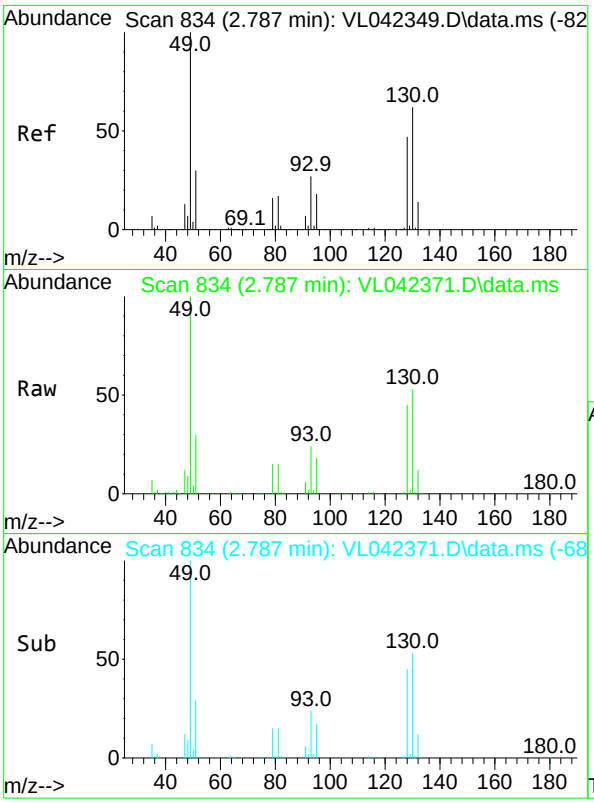
Quant Time: Apr 18 02:45:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025

Manual Integrations APPROVED

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

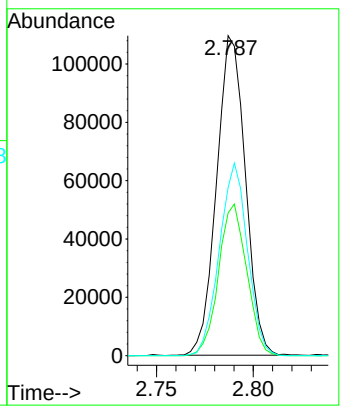




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL042371.D
Acq: 17 Apr 2025 22:52

Tgt Ion: 49 Resp: 11315

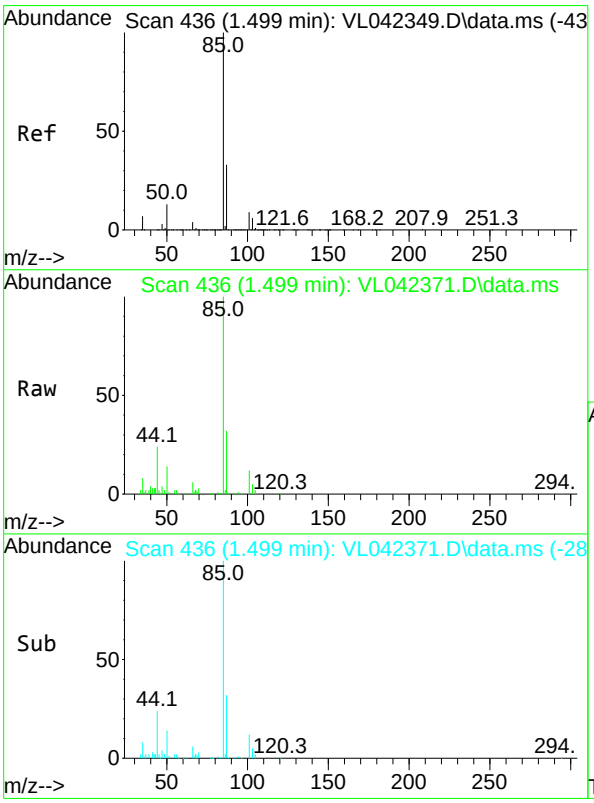
Ion	Ratio	Lower	Upper
49	100		
128	46.5	22.8	68.4
130	59.1	29.3	88.0



Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025

Manual Integrations
APPROVED

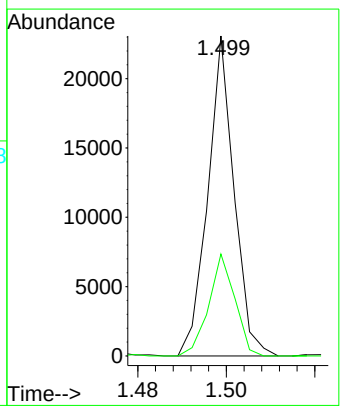
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

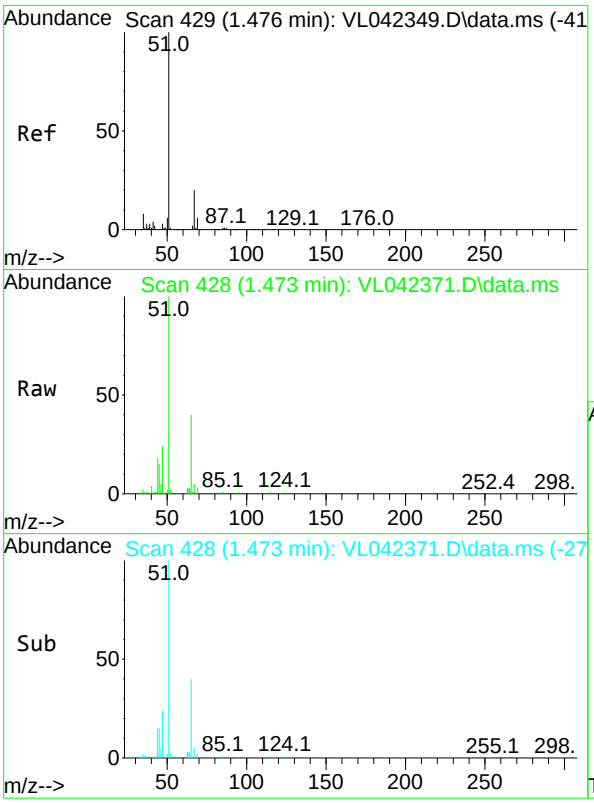


#2
Dichlorodifluoromethane
Concen: 0.476 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.000 min
Lab File: VL042371.D
Acq: 17 Apr 2025 22:52

Tgt Ion: 85 Resp: 9517

Ion	Ratio	Lower	Upper
85	100		
87	31.9	26.6	39.8

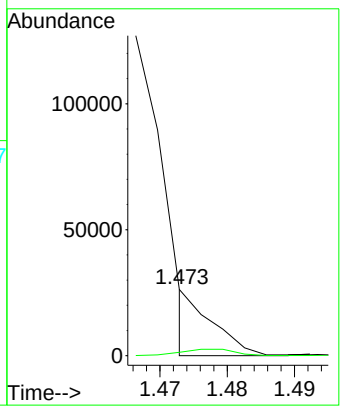




#3
Chlorodifluoromethane
Concen: 0.312 ppbv m
RT: 1.473 min Scan# 4
Delta R.T. -0.003 min
Lab File: VL042371.D
Acq: 17 Apr 2025 22:52

Tgt Ion: 51 Resp: 594

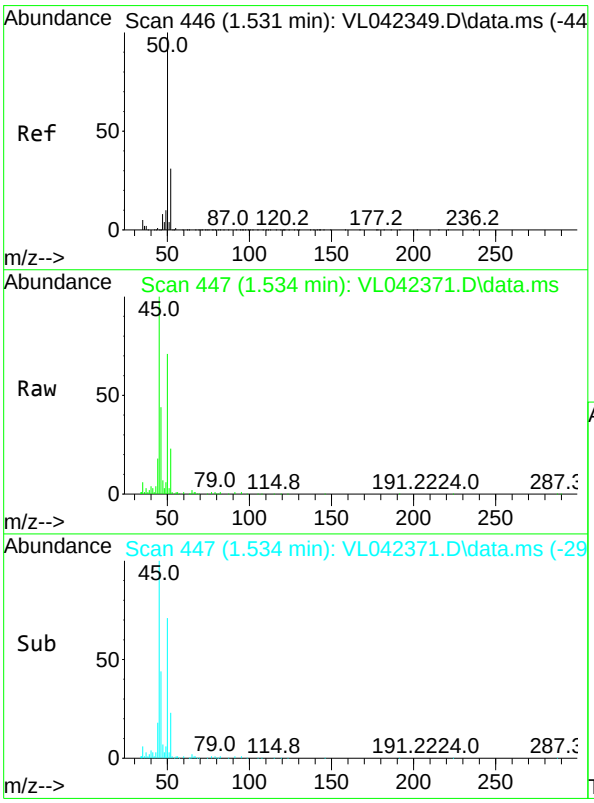
Ion	Ratio	Lower	Upper
51	100		
67	30.9	16.2	24.4



Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025

Manual Integrations
APPROVED

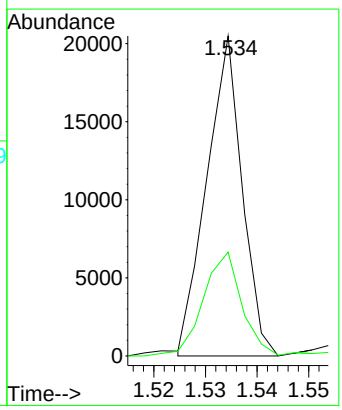
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

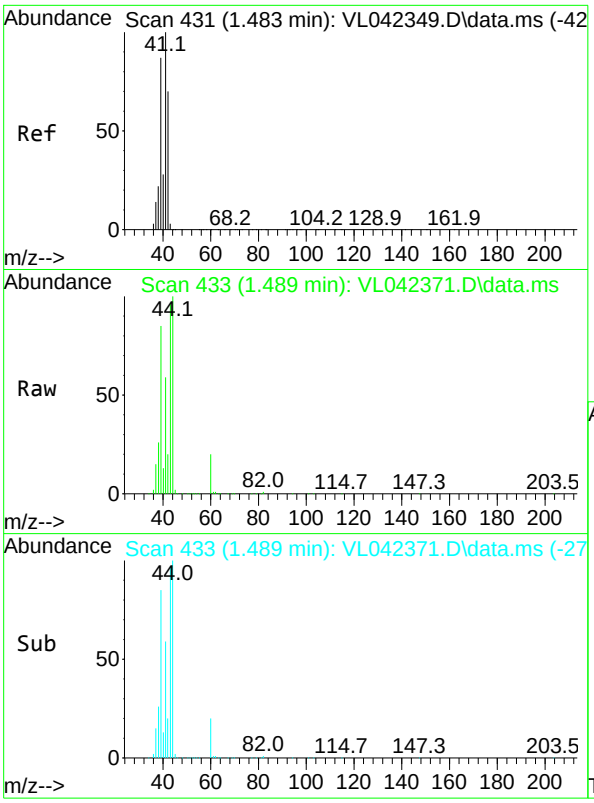


#4
Chloromethane
Concen: 1.234 ppbv
RT: 1.534 min Scan# 447
Delta R.T. 0.003 min
Lab File: VL042371.D
Acq: 17 Apr 2025 22:52

Tgt Ion: 50 Resp: 9764

Ion	Ratio	Lower	Upper
50	100		
52	32.2	24.7	37.1

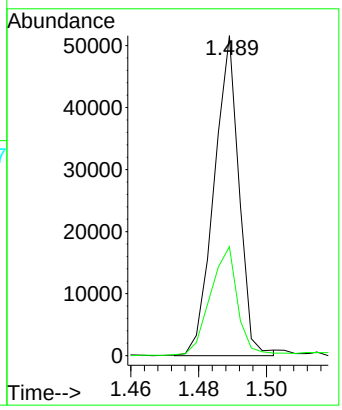




#9
Propene
Concen: 3.032 ppbv m
RT: 1.489 min Scan# 4
Delta R.T. 0.006 min
Lab File: VL042371.D
Acq: 17 Apr 2025 22:52

Tgt Ion: 41 Resp: 2628

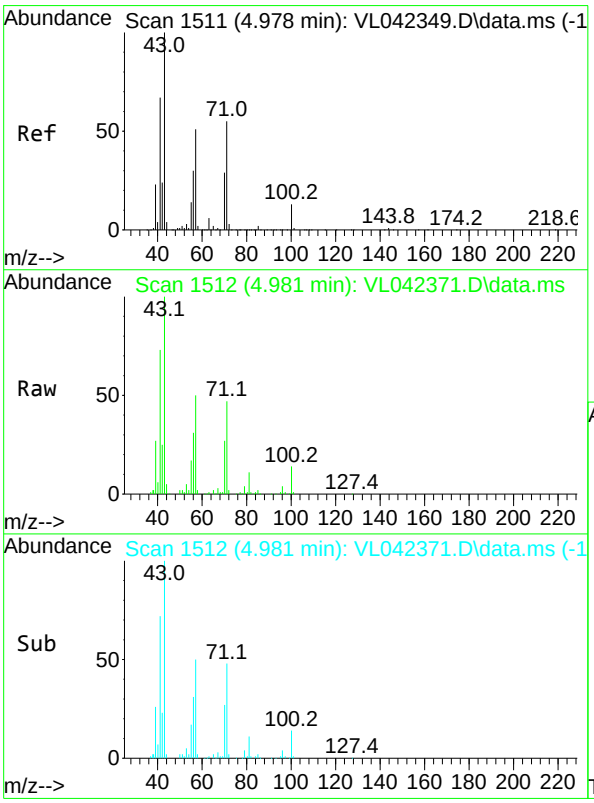
Ion	Ratio	Lower	Upper
41	100		
42	281.2	56.2	84.4



Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025

Manual Integrations
APPROVED

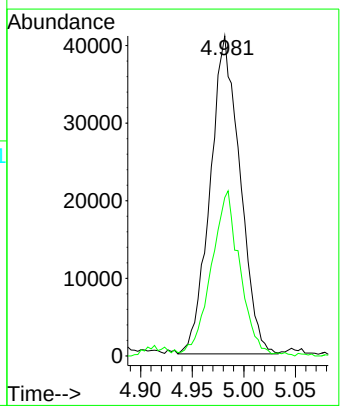
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

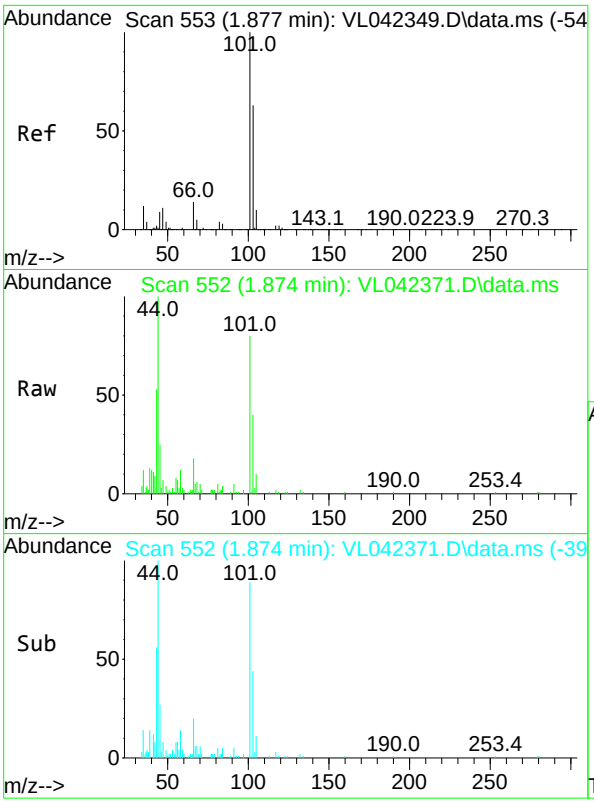


#10
Heptane
Concen: 3.394 ppbv
RT: 4.981 min Scan# 1512
Delta R.T. 0.003 min
Lab File: VL042371.D
Acq: 17 Apr 2025 22:52

Tgt Ion: 43 Resp: 82673

Ion	Ratio	Lower	Upper
43	100		
57	50.3	39.9	59.9

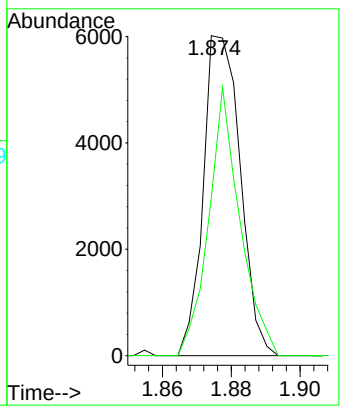




#11
Trichlorofluoromethane
Concen: 0.237 ppbv
RT: 1.874 min Scan# 5
Delta R.T. -0.003 min
Lab File: VL042371.D
Acq: 17 Apr 2025 22:52

Tgt Ion:101 Resp: 449

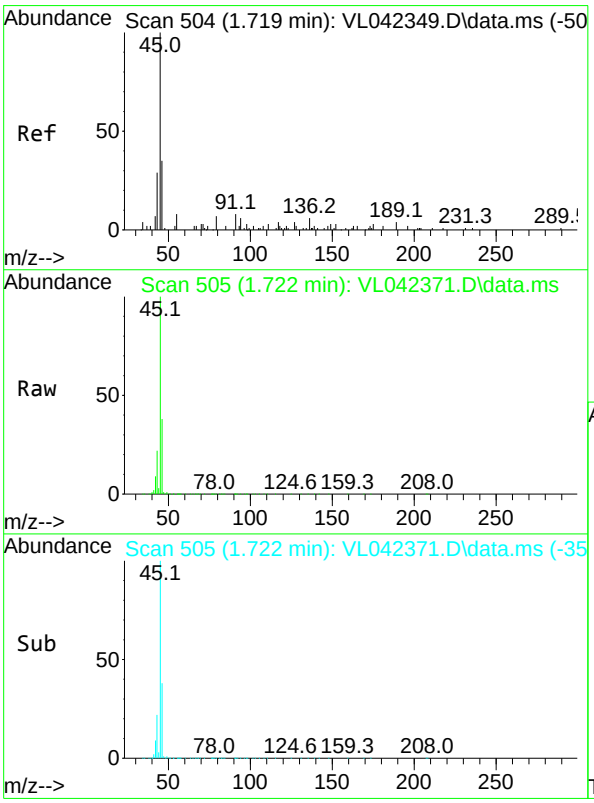
Ion	Ratio	Lower	Upper
101	100		
103	49.2	50.1	75.1#



Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025

Manual Integrations
APPROVED

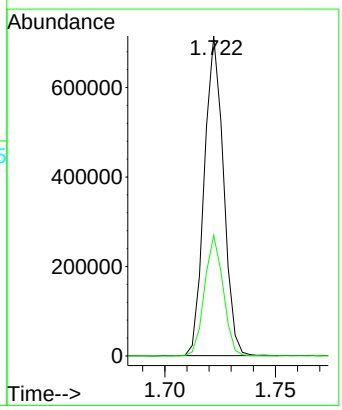
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

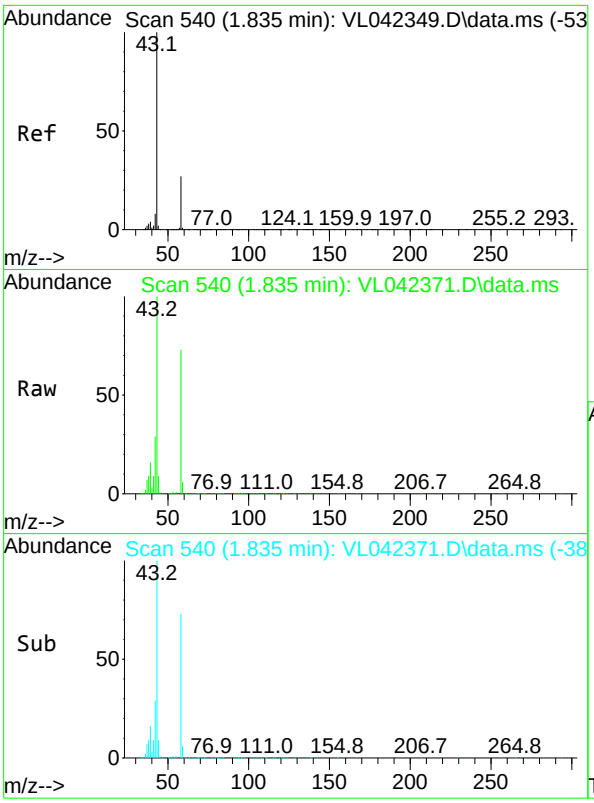


#13
Ethanol
Concen: 311.565 ppbv
RT: 1.722 min Scan# 505
Delta R.T. 0.003 min
Lab File: VL042371.D
Acq: 17 Apr 2025 22:52

Tgt Ion: 45 Resp: 429340

Ion	Ratio	Lower	Upper
45	100		
46	36.8	21.9	87.7





#15
Acetone
Concen: 165.330 ppbv
RT: 1.835 min Scan# 54
Delta R.T. -0.000 min
Lab File: VL042371.D
Acq: 17 Apr 2025 22:52

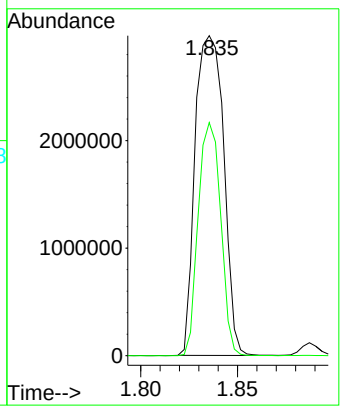
Tgt Ion: 43 Resp: 306250

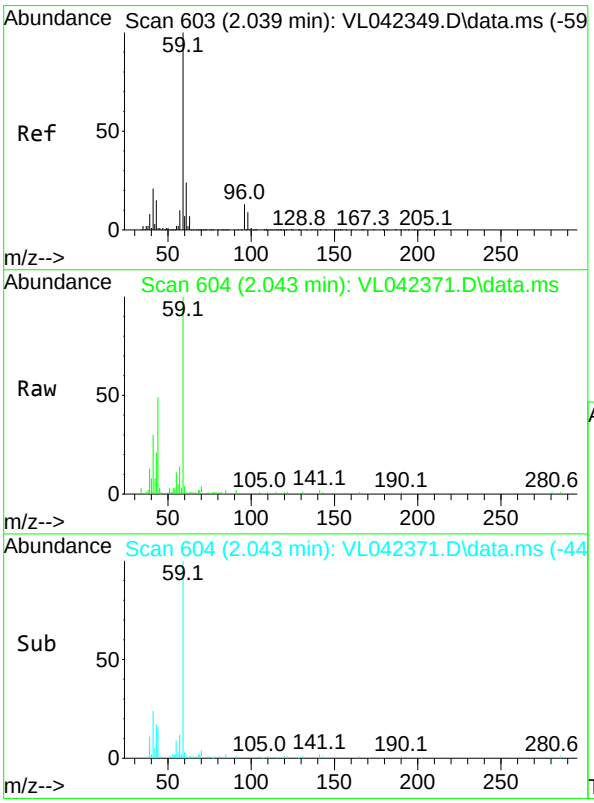
Ion	Ratio	Lower	Upper
43	100		
58	57.3	22.4	33.6#

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025

Manual Integrations
APPROVED

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

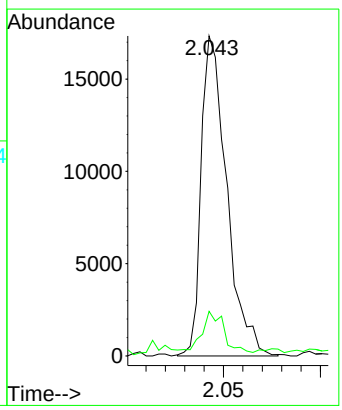


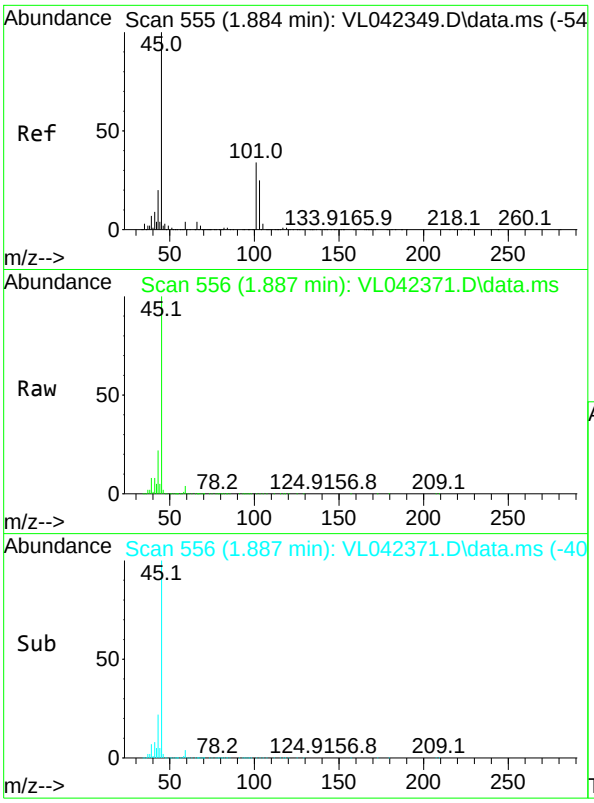


#17
tert-Butyl alcohol
Concen: 0.690 ppbv m
RT: 2.043 min Scan# 604
Delta R.T. 0.003 min
Lab File: VL042371.D
Acq: 17 Apr 2025 22:52

Tgt Ion: 59 Resp: 15845

Ion	Ratio	Lower	Upper
59	100		
57	38.3	8.7	13.1#

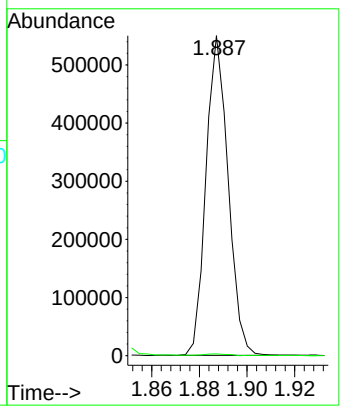




#19
Isopropyl Alcohol
Concen: 34.527 ppbv
RT: 1.887 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042371.D
Acq: 17 Apr 2025 22:52

Tgt Ion: 45 Resp: 35528

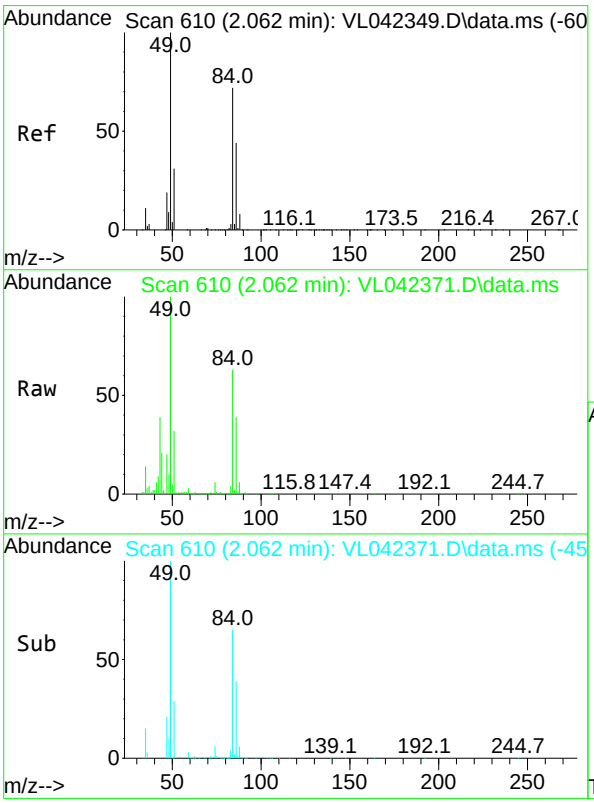
Ion	Ratio	Lower	Upper
45	100		
58	0.0	34.5	51.7#



Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025

Manual Integrations
APPROVED

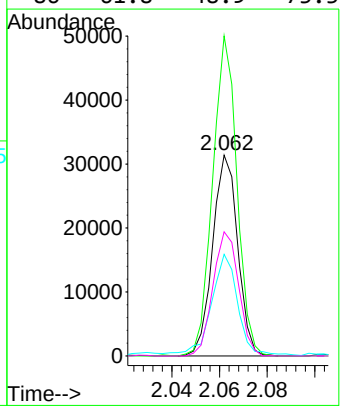
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

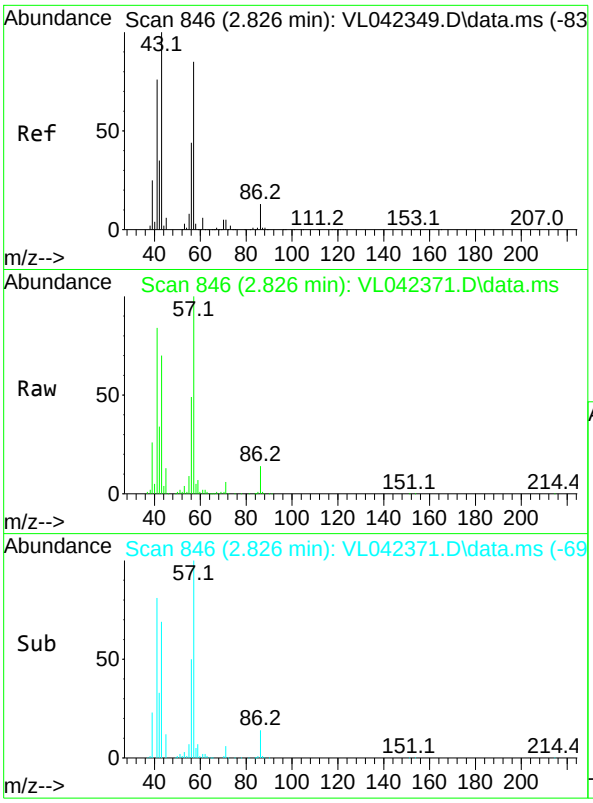


#20
Methylene Chloride
Concen: 3.166 ppbv
RT: 2.062 min Scan# 610
Delta R.T. -0.000 min
Lab File: VL042371.D
Acq: 17 Apr 2025 22:52

Tgt Ion: 84 Resp: 22966

Ion	Ratio	Lower	Upper
84	100		
49	159.3	111.6	167.4
51	49.6	35.1	52.7
86	61.8	48.9	73.3

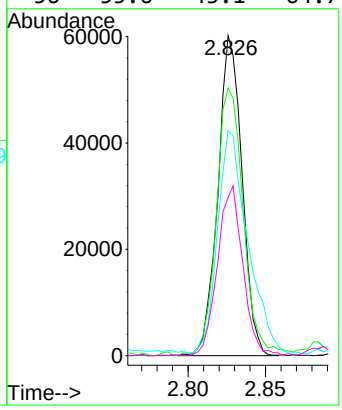




#26
Hexane
Concen: 3.529 ppbv
RT: 2.826 min Scan# 84
Delta R.T. -0.000 min
Lab File: VL042371.D
Acq: 17 Apr 2025 22:52

Tgt Ion: 57 Resp: 6523

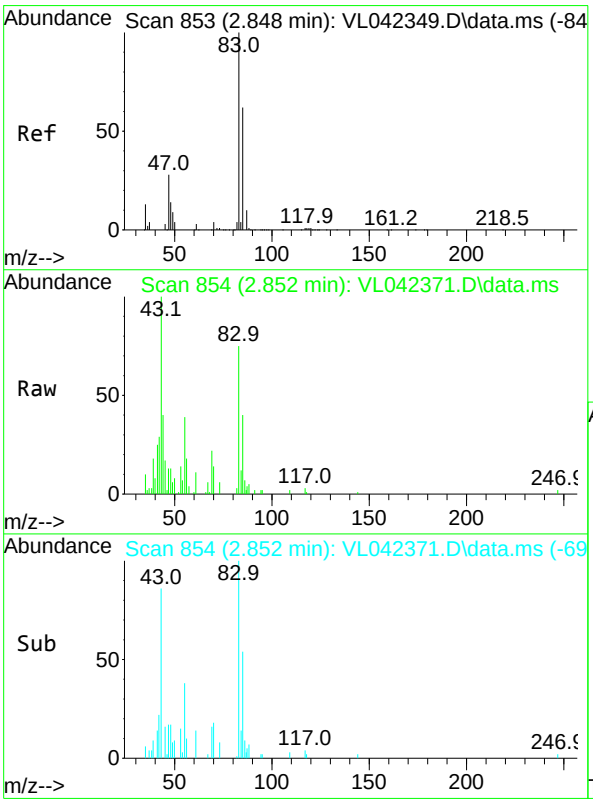
Ion	Ratio	Lower	Upper
57	100		
41	92.4	77.9	116.9
43	85.1	208.4	312.6
56	55.6	43.1	64.7



Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025

Manual Integrations
APPROVED

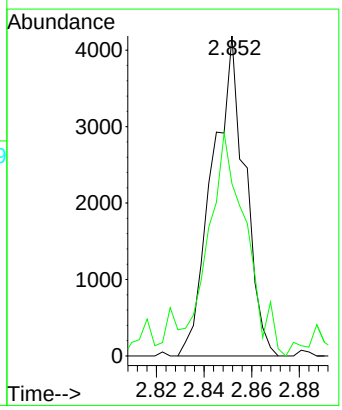
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

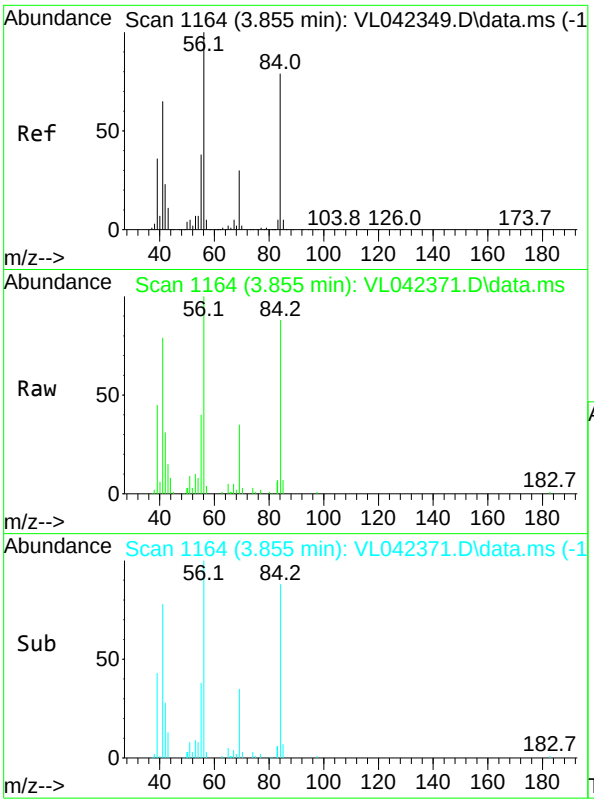


#29
Chloroform
Concen: 0.153 ppbv
RT: 2.852 min Scan# 854
Delta R.T. 0.003 min
Lab File: VL042371.D
Acq: 17 Apr 2025 22:52

Tgt Ion: 83 Resp: 3991

Ion	Ratio	Lower	Upper
83	100		
85	51.6	50.0	75.0

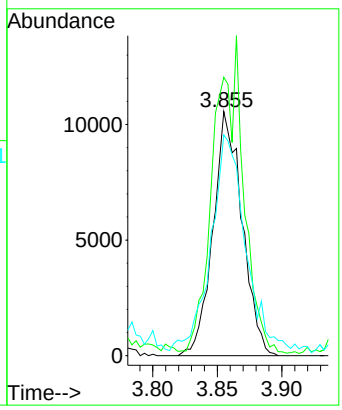




#30
Cyclohexane
Concen: 1.109 ppbv
RT: 3.855 min Scan# 11
Delta R.T. -0.000 min
Lab File: VL042371.D
Acq: 17 Apr 2025 22:52

Tgt Ion: 84 Resp: 1657

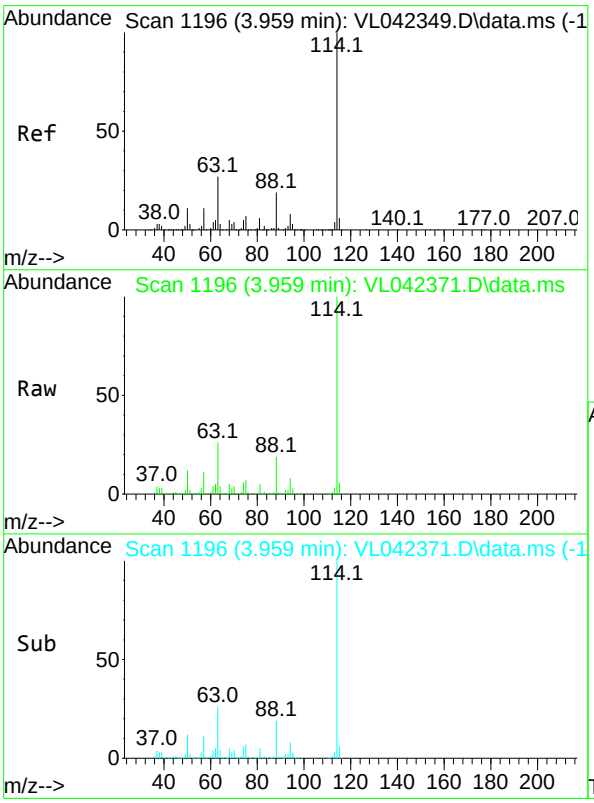
Ion	Ratio	Lower	Upper
84	100		
56	136.5	101.0	151.4
41	109.0	67.4	101.0#



Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025

Manual Integrations
APPROVED

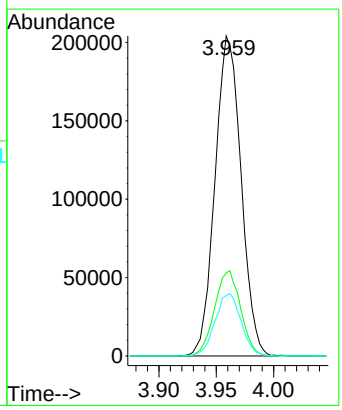
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

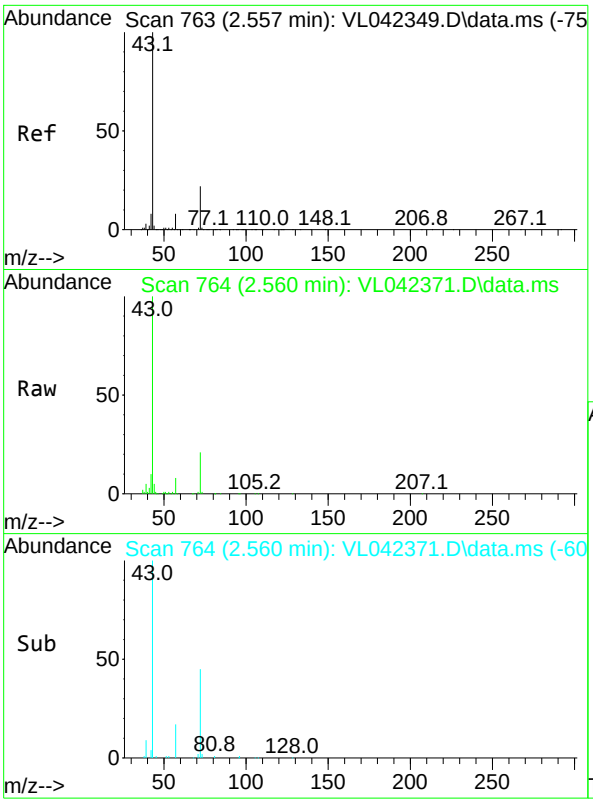


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.959 min Scan# 1196
Delta R.T. -0.000 min
Lab File: VL042371.D
Acq: 17 Apr 2025 22:52

Tgt Ion:114 Resp: 322735

Ion	Ratio	Lower	Upper
114	100		
63	26.7	21.8	32.6
88	19.4	15.5	23.3

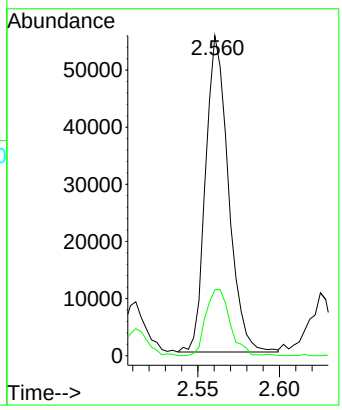




#34
2-Butanone
Concen: 2.117 ppbv
RT: 2.560 min Scan# 7
Delta R.T. 0.003 min
Lab File: VL042371.D
Acq: 17 Apr 2025 22:52

Tgt Ion: 43 Resp: 5402

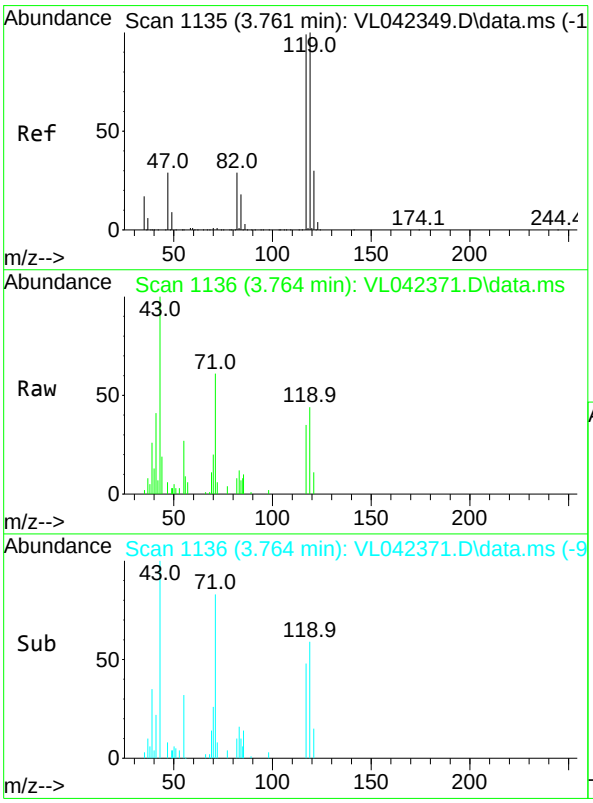
Ion	Ratio	Lower	Upper
43	100		
72	22.4	18.2	27.2



Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025

Manual Integrations
APPROVED

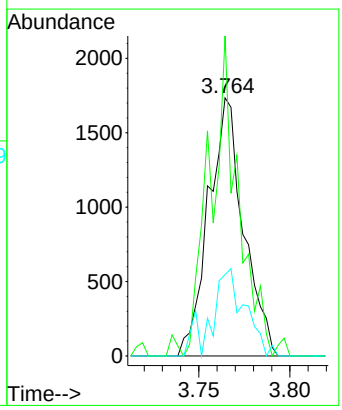
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

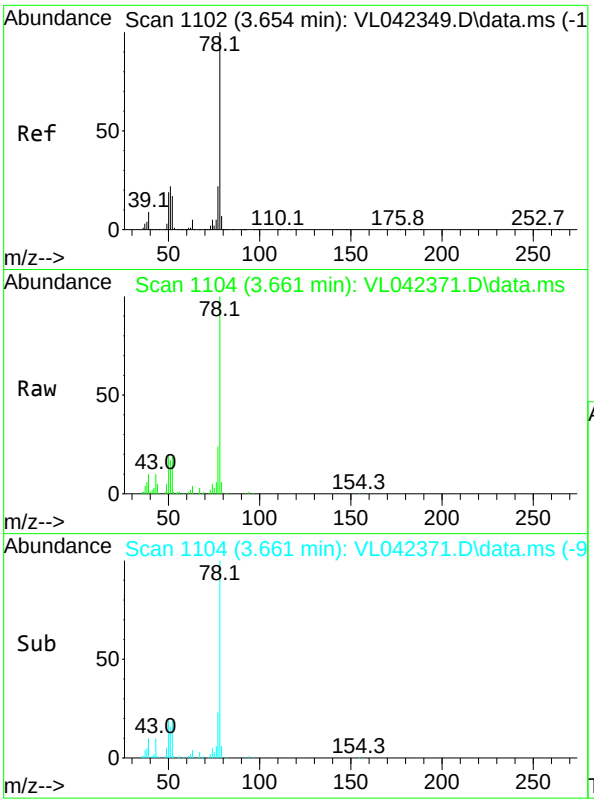


#35
Carbon Tetrachloride
Concen: 0.079 ppbv
RT: 3.764 min Scan# 1136
Delta R.T. 0.003 min
Lab File: VL042371.D
Acq: 17 Apr 2025 22:52

Tgt Ion:117 Resp: 2319

Ion	Ratio	Lower	Upper
117	100		
119	120.2	80.5	120.7
121	31.5	24.2	36.2

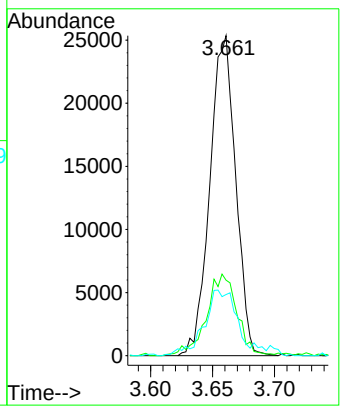




#36
Benzene
Concen: 1.060 ppbv
RT: 3.661 min Scan# 1
Delta R.T. 0.006 min
Lab File: VL042371.D
Acq: 17 Apr 2025 22:52

Tgt Ion: 78 Resp: 3690

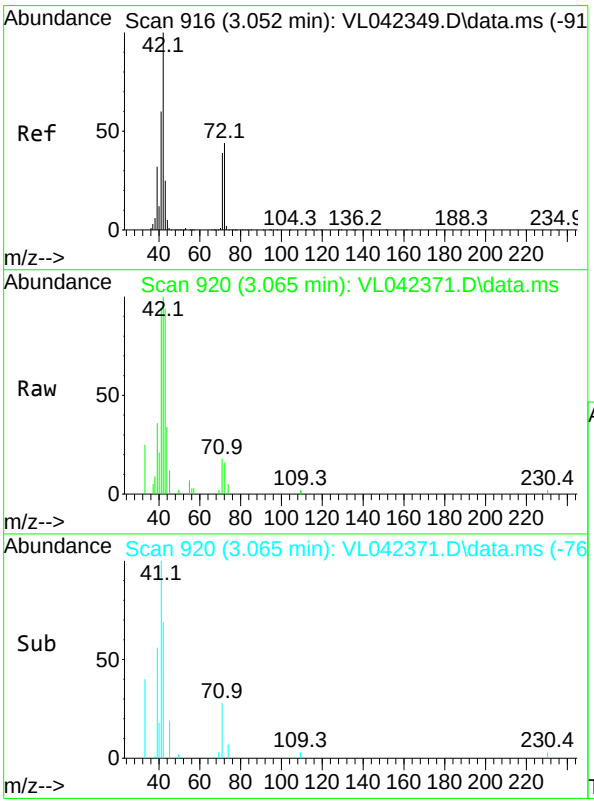
Ion	Ratio	Lower	Upper
78	100		
77	22.8	17.4	26.0
50	17.0	15.5	23.3



Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025

Manual Integrations
APPROVED

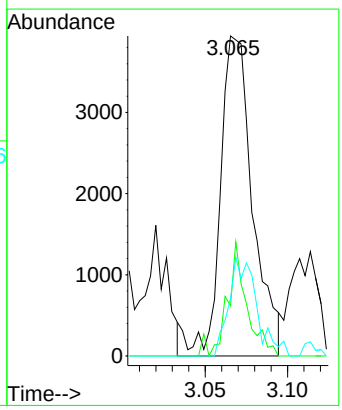
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

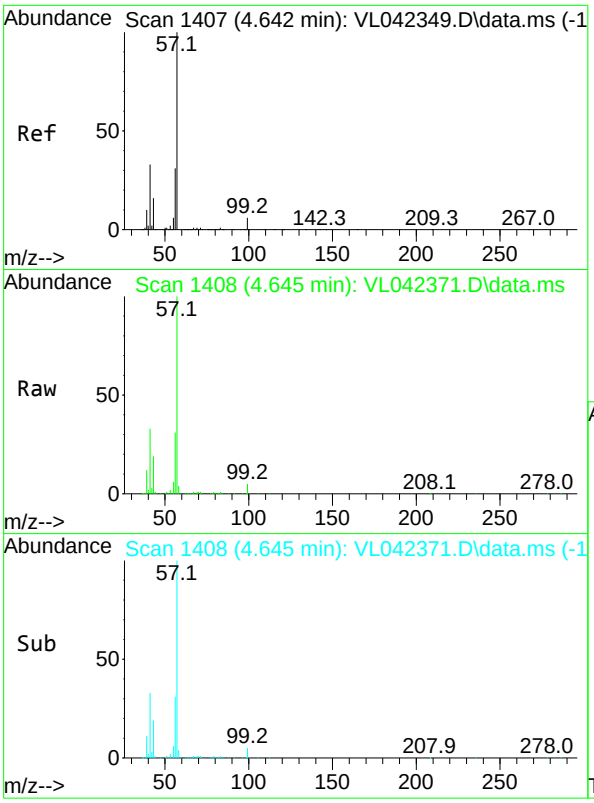


#41
Tetrahydrofuran
Concen: 0.362 ppbv m
RT: 3.065 min Scan# 920
Delta R.T. 0.013 min
Lab File: VL042371.D
Acq: 17 Apr 2025 22:52

Tgt Ion: 42 Resp: 5385

Ion	Ratio	Lower	Upper
42	100		
72	0.0	32.3	48.5#
71	0.0	31.4	47.2#

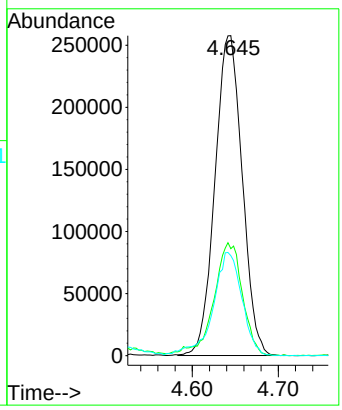




#44
2,2,4-Trimethylpentane
Concen: 9.437 ppbv
RT: 4.645 min Scan# 14
Delta R.T. 0.003 min
Lab File: VL042371.D
Acq: 17 Apr 2025 22:52

Tgt Ion: 57 Resp: 56734

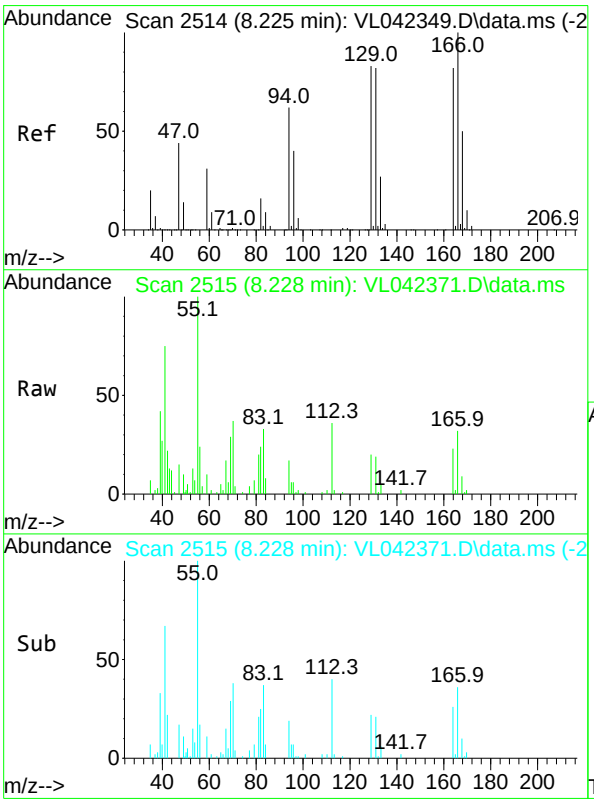
Ion	Ratio	Lower	Upper
57	100		
41	37.3	27.2	40.8
56	34.4	25.7	38.5



Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025

Manual Integrations
APPROVED

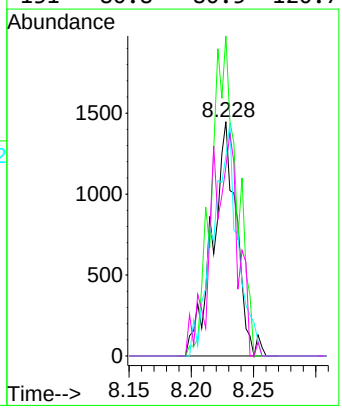
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

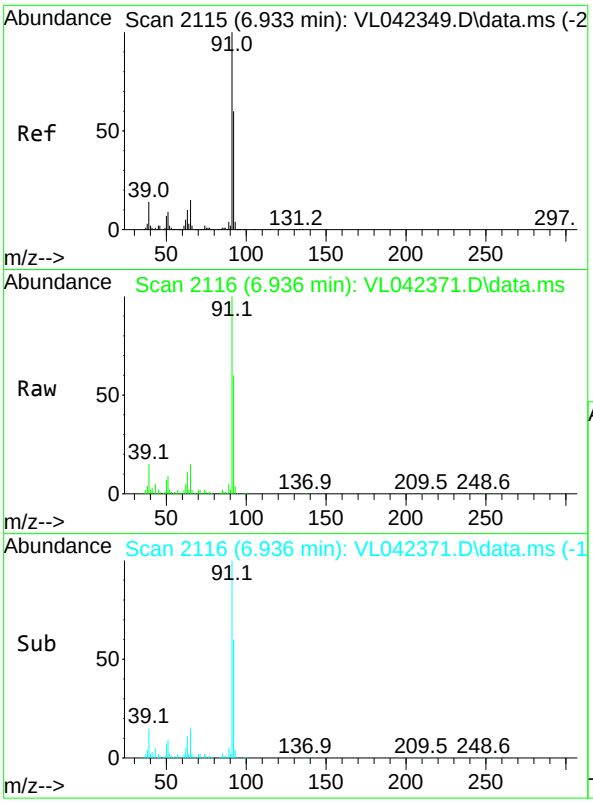


#52
Tetrachloroethene
Concen: 0.144 ppbv m
RT: 8.228 min Scan# 2515
Delta R.T. 0.003 min
Lab File: VL042371.D
Acq: 17 Apr 2025 22:52

Tgt Ion:164 Resp: 1944

Ion	Ratio	Lower	Upper
164	100		
166	136.6	98.2	147.2
129	85.3	81.8	122.8
131	80.8	80.5	120.7

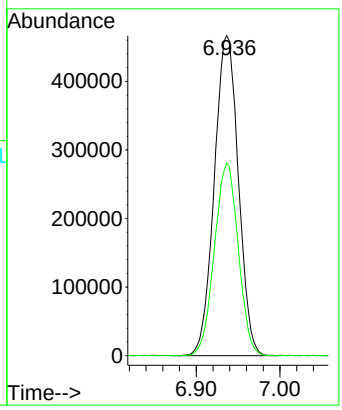




#53
Toluene
Concen: 22.290 ppbv
RT: 6.936 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042371.D
Acq: 17 Apr 2025 22:52

Tgt Ion: 91 Resp: 93113

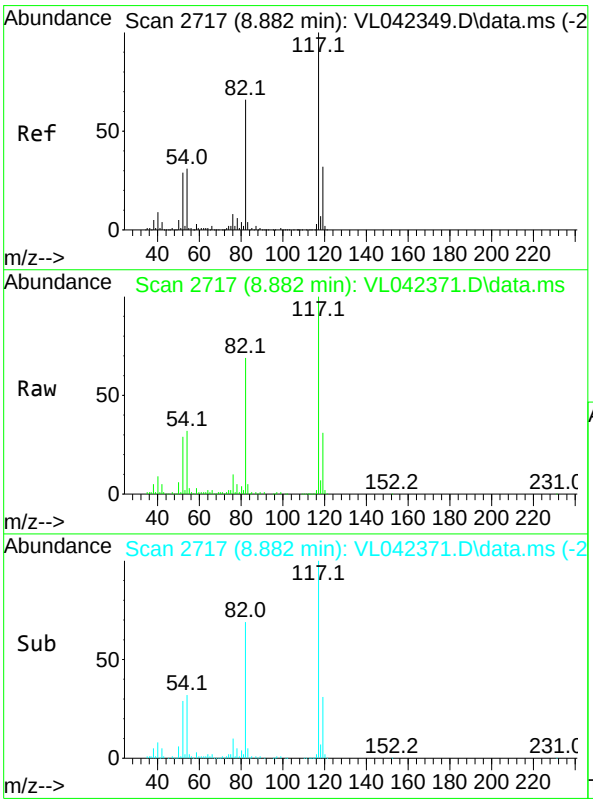
Ion	Ratio	Lower	Upper
91	100		
92	59.7	48.2	72.4



Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025

Manual Integrations
APPROVED

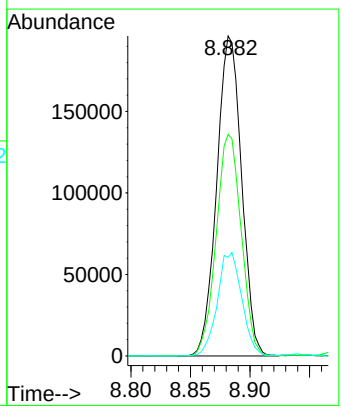
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

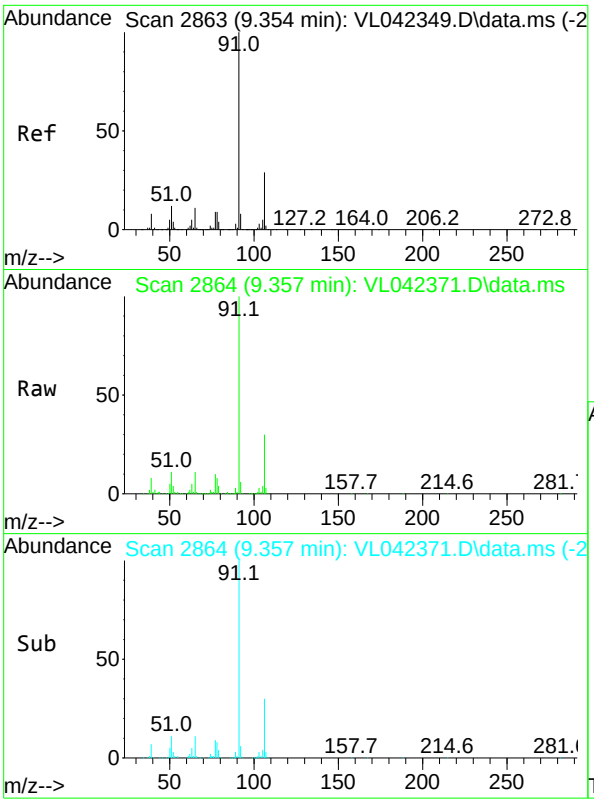


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.882 min Scan# 2717
Delta R.T. -0.000 min
Lab File: VL042371.D
Acq: 17 Apr 2025 22:52

Tgt Ion:117 Resp: 284478

Ion	Ratio	Lower	Upper
117	100		
82	69.5	57.8	86.6
119	31.9	25.2	37.8

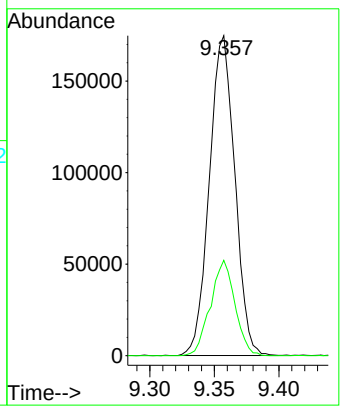




#58
Ethyl Benzene
Concen: 4.253 ppbv
RT: 9.357 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042371.D
Acq: 17 Apr 2025 22:52

Tgt Ion: 91 Resp: 23970

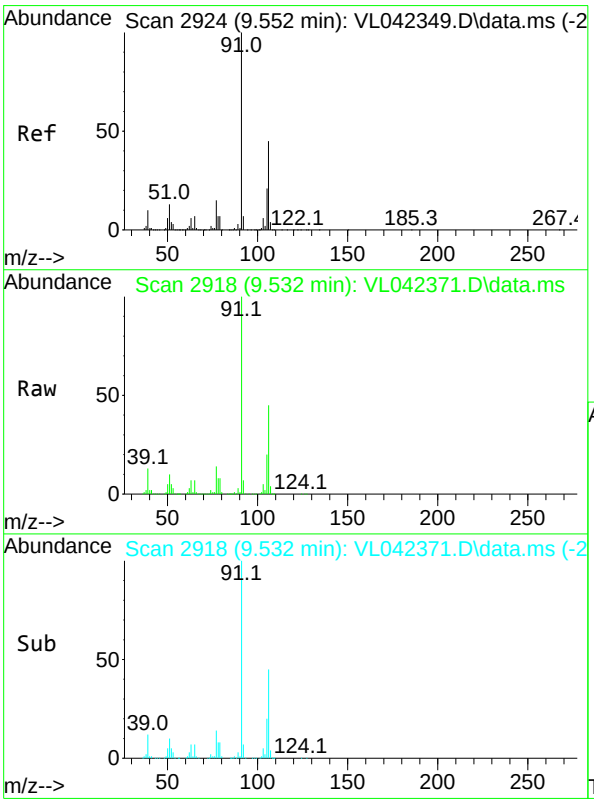
Ion	Ratio	Lower	Upper
91	100		
106	29.8	23.0	34.4



Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025

Manual Integrations
APPROVED

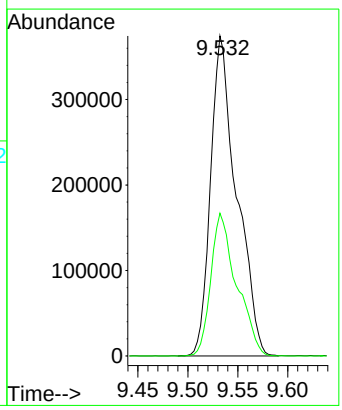
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

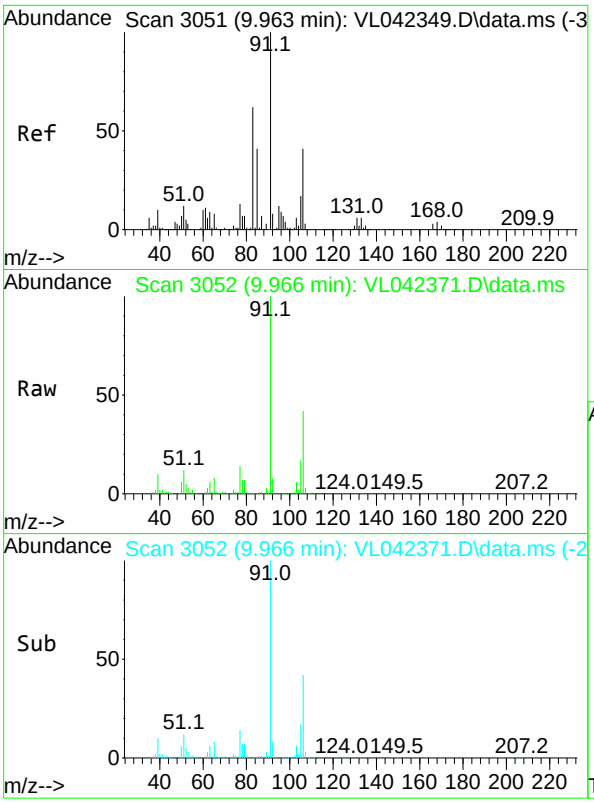


#59
m/p-Xylene
Concen: 14.937 ppbv
RT: 9.532 min Scan# 2918
Delta R.T. -0.019 min
Lab File: VL042371.D
Acq: 17 Apr 2025 22:52

Tgt Ion: 91 Resp: 678219

Ion	Ratio	Lower	Upper
91	100		
106	44.2	35.4	53.2

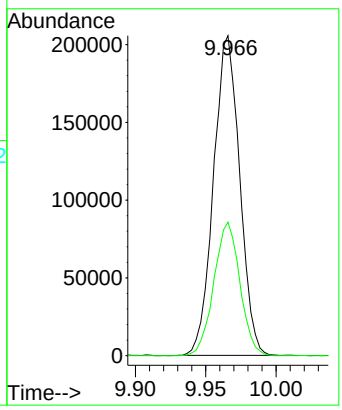




#60
o-Xylene
Concen: 5.817 ppbv
RT: 9.966 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042371.D
Acq: 17 Apr 2025 22:52

Tgt Ion: 91 Resp: 26596

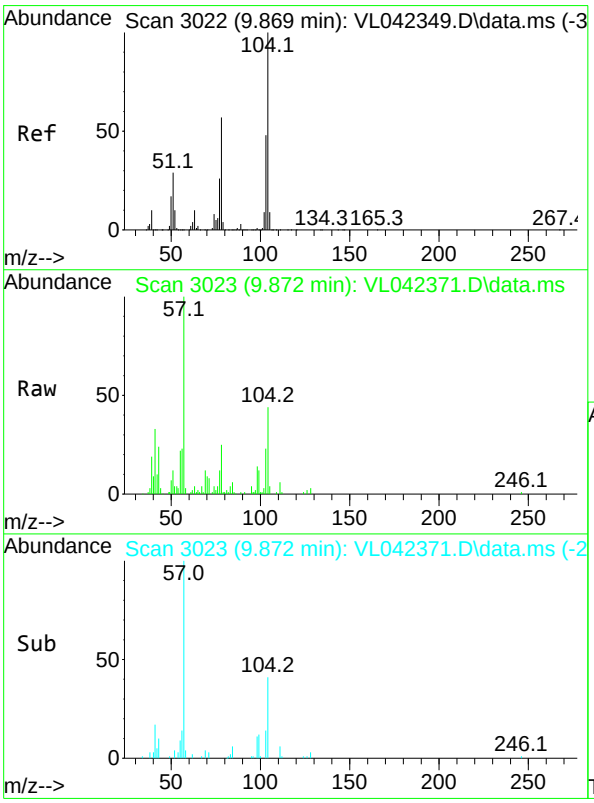
Ion	Ratio	Lower	Upper
91	100		
106	41.5	21.1	63.4



Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025

Manual Integrations
APPROVED

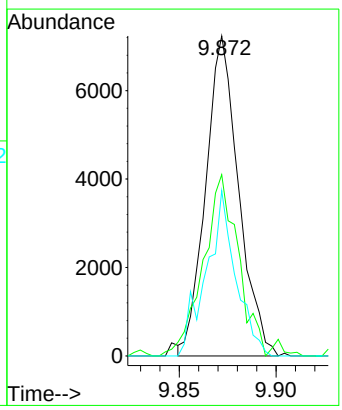
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

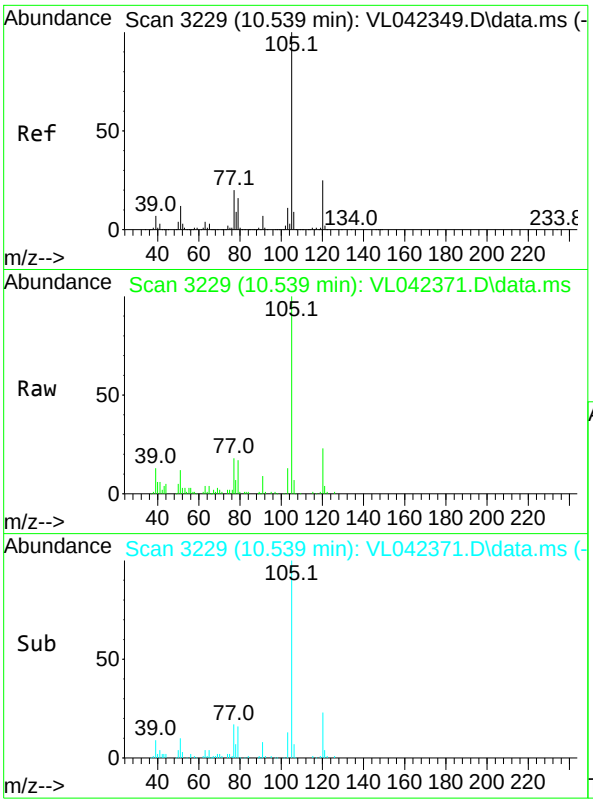


#61
Styrene
Concen: 0.392 ppbv
RT: 9.872 min Scan# 3023
Delta R.T. 0.003 min
Lab File: VL042371.D
Acq: 17 Apr 2025 22:52

Tgt Ion:104 Resp: 8564

Ion	Ratio	Lower	Upper
104	100		
78	62.3	44.6	66.8
103	46.3	37.4	56.0

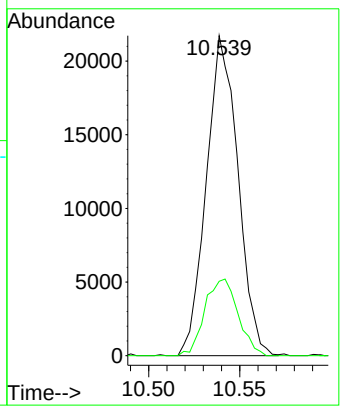




#62
Isopropylbenzene
Concen: 0.391 ppbv
RT: 10.539 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042371.D
Acq: 17 Apr 2025 22:52

Tgt Ion:105 Resp: 2621

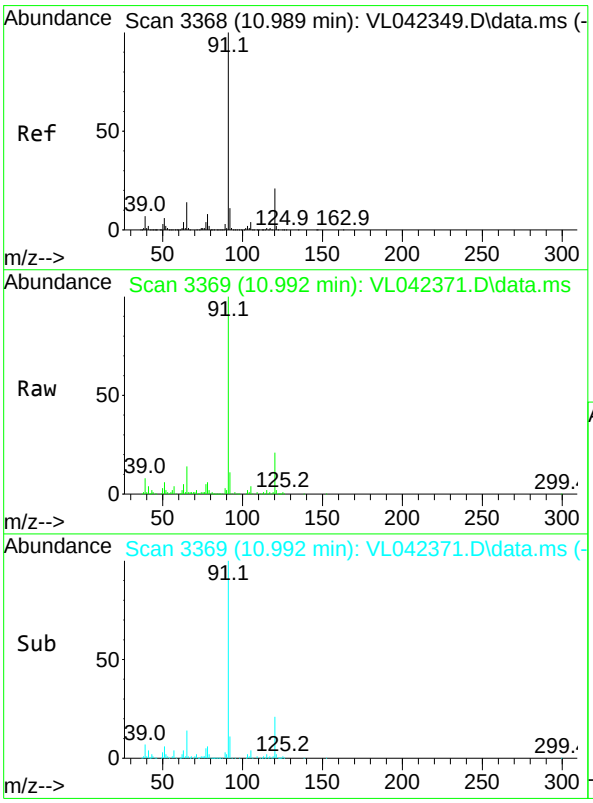
Ion	Ratio	Lower	Upper
105	100		
120	25.1	19.8	29.8



Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025

Manual Integrations
APPROVED

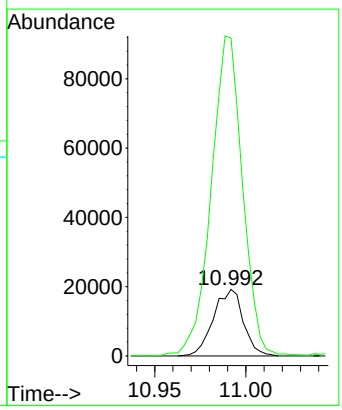
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

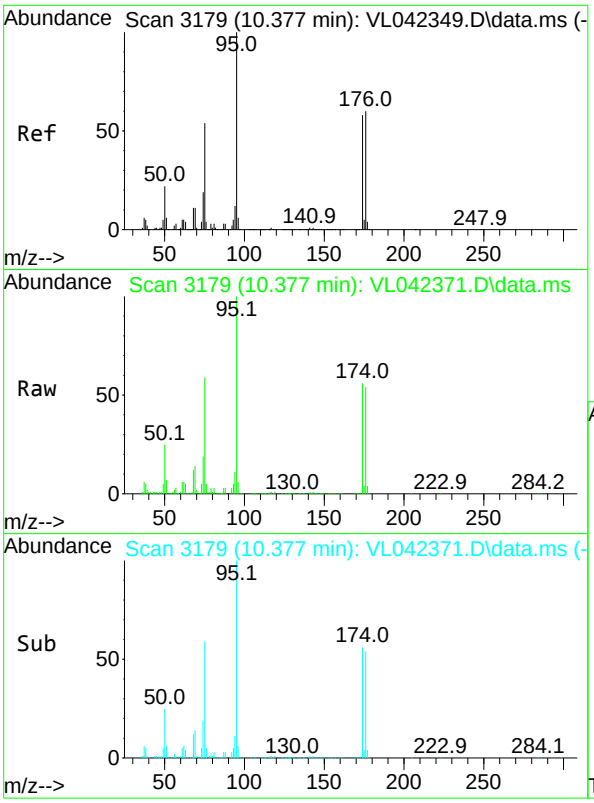


#64
n-propylbenzene
Concen: 1.296 ppbv
RT: 10.992 min Scan# 3369
Delta R.T. 0.003 min
Lab File: VL042371.D
Acq: 17 Apr 2025 22:52

Tgt Ion:120 Resp: 21875

Ion	Ratio	Lower	Upper
120	100		
91	503.1	392.4	588.6

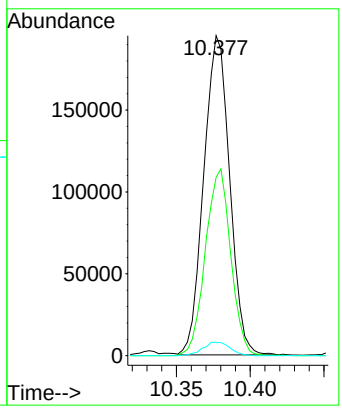




#68
1-Bromo-4-Fluorobenzene
Concen: 10.179 ppbv
RT: 10.377 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042371.D
Acq: 17 Apr 2025 22:52

Tgt Ion: 95 Resp: 23794

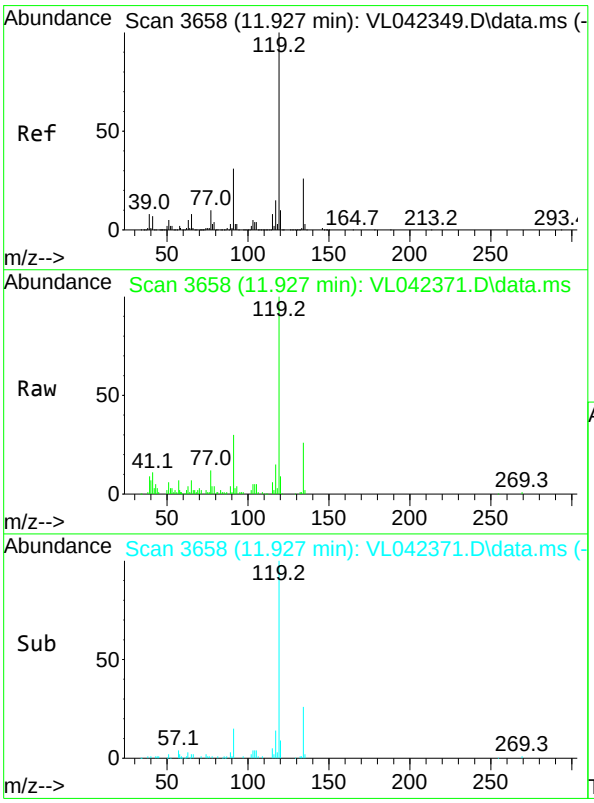
Ion	Ratio	Lower	Upper
95	100		
174	57.3	48.5	72.7
175	4.5	3.7	5.5



Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025

Manual Integrations
APPROVED

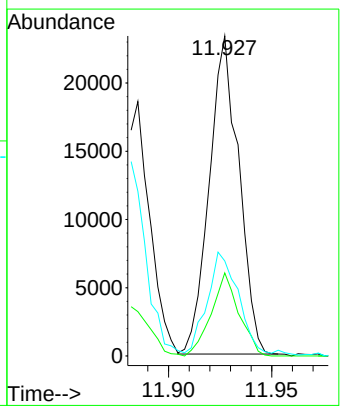
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

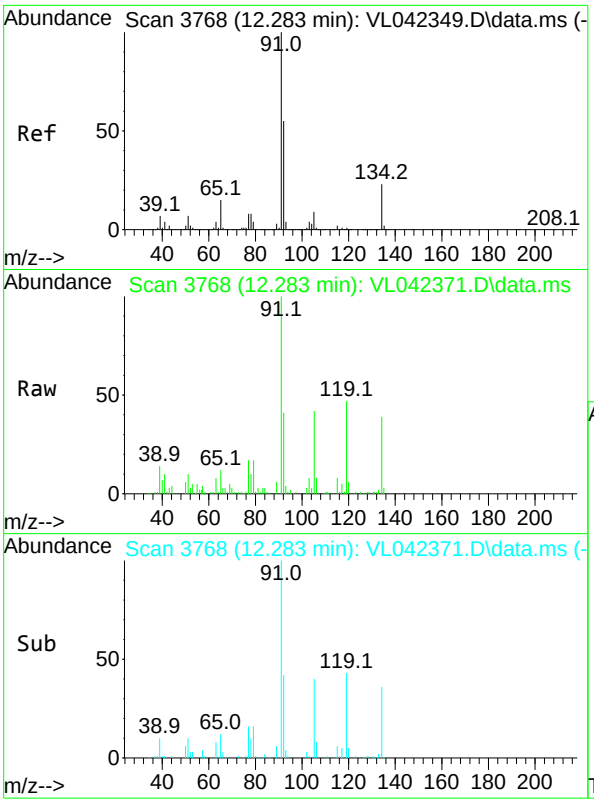


#69
p-Isopropyltoluene
Concen: 0.311 ppbv
RT: 11.927 min Scan# 3658
Delta R.T. 0.000 min
Lab File: VL042371.D
Acq: 17 Apr 2025 22:52

Tgt Ion:119 Resp: 23201

Ion	Ratio	Lower	Upper
119	100		
134	24.5	20.0	30.0
91	36.2	24.4	36.6

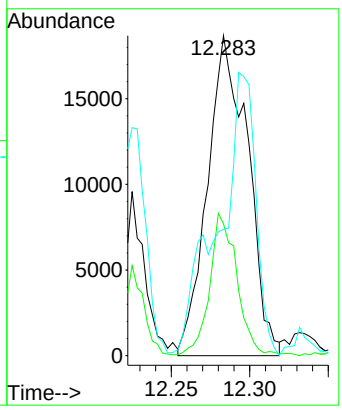




#70
n-Butylbenzene
Concen: 0.431 ppbv m
RT: 12.283 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042371.D
Acq: 17 Apr 2025 22:52

Tgt Ion: 91 Resp: 3343

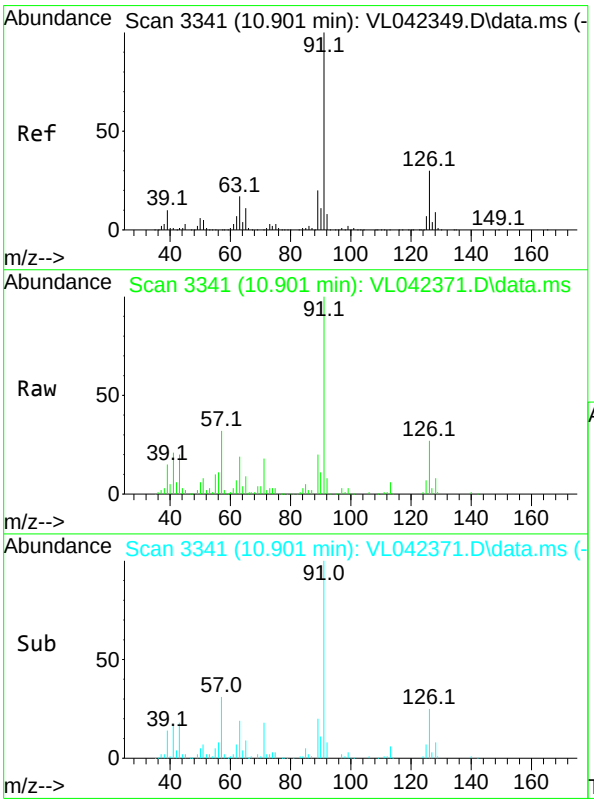
Ion	Ratio	Lower	Upper
91	100		
92	30.8	44.2	66.4#
134	0.0	18.2	27.4#



Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025

Manual Integrations
APPROVED

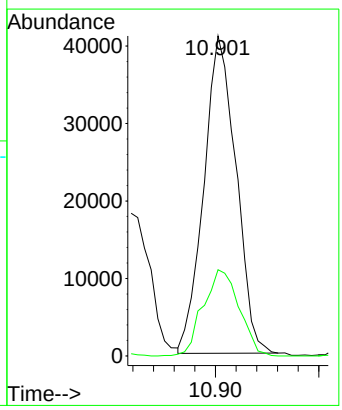
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

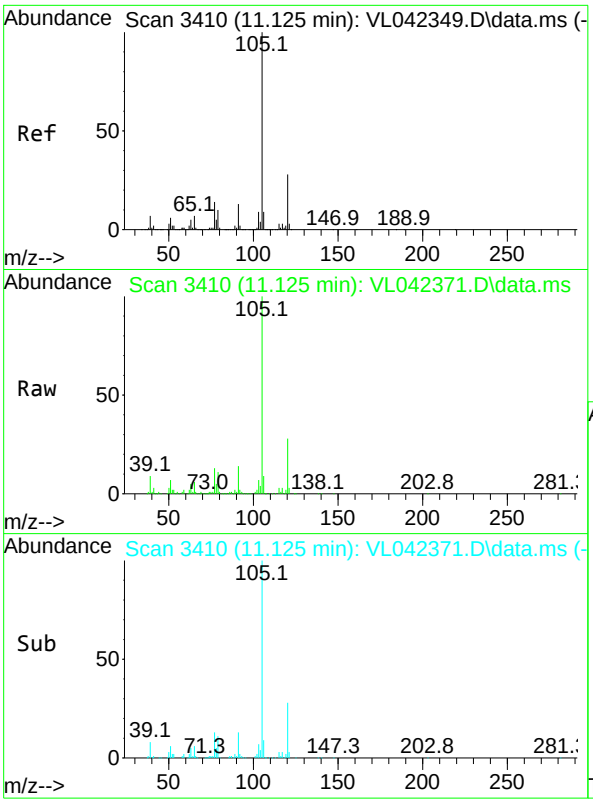


#71
2-Chlorotoluene
Concen: 0.843 ppbv
RT: 10.901 min Scan# 3341
Delta R.T. 0.000 min
Lab File: VL042371.D
Acq: 17 Apr 2025 22:52

Tgt Ion: 91 Resp: 44364

Ion	Ratio	Lower	Upper
91	100		
126	30.4	11.4	45.4

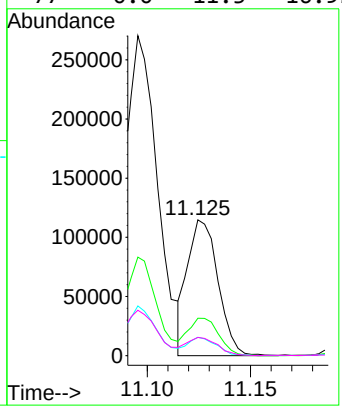




#72
4-Ethyltoluene
Concen: 2.108 ppbv
RT: 11.125 min Scan# 34
Delta R.T. -0.000 min
Lab File: VL042371.D
Acq: 17 Apr 2025 22:52

Tgt Ion:105 Resp: 11782

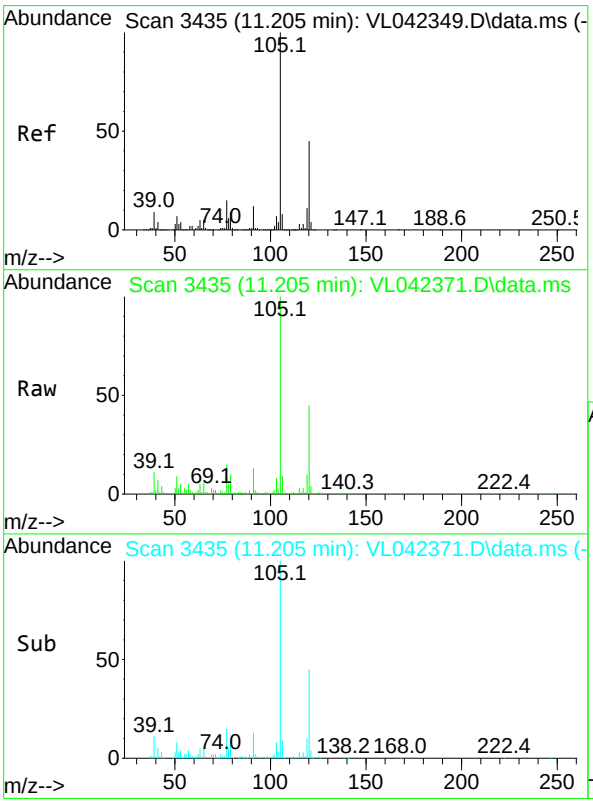
Ion	Ratio	Lower	Upper
105	100		
120	0.0	23.2	34.8#
91	0.0	10.4	15.6#
77	0.0	11.3	16.9#



Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025

Manual Integrations
APPROVED

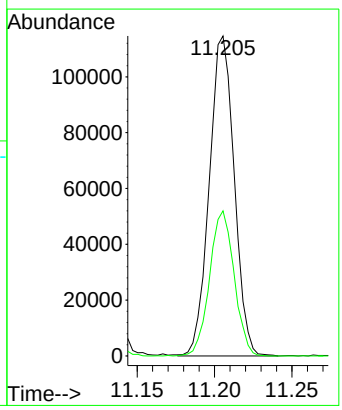
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

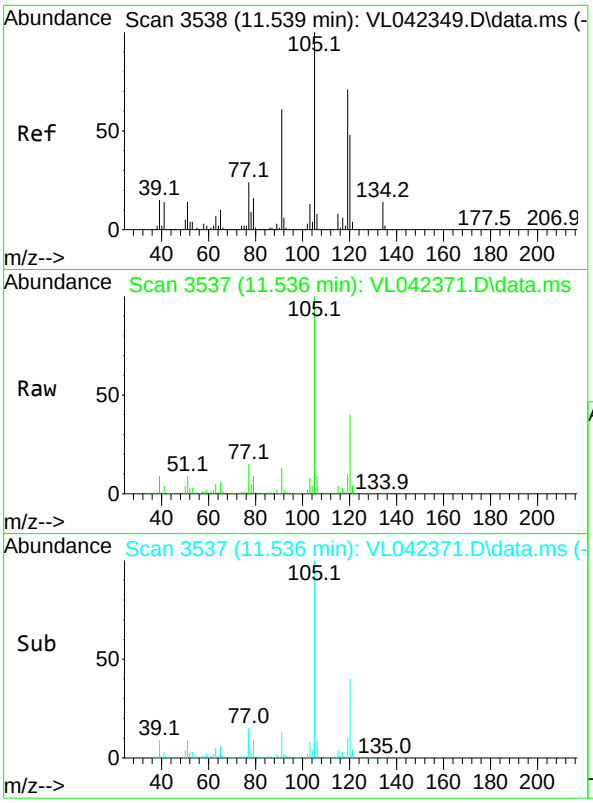


#73
1,3,5-Trimethylbenzene
Concen: 2.599 ppbv
RT: 11.205 min Scan# 3435
Delta R.T. -0.000 min
Lab File: VL042371.D
Acq: 17 Apr 2025 22:52

Tgt Ion:105 Resp: 128254

Ion	Ratio	Lower	Upper
105	100		
120	45.4	35.6	53.4

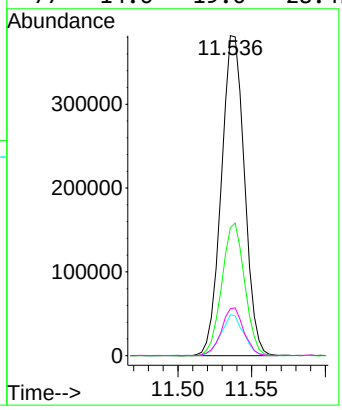




#74
1,2,4-Trimethylbenzene
Concen: 7.213 ppbv
RT: 11.536 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042371.D
Acq: 17 Apr 2025 22:52

Tgt Ion:105 Resp: 41575

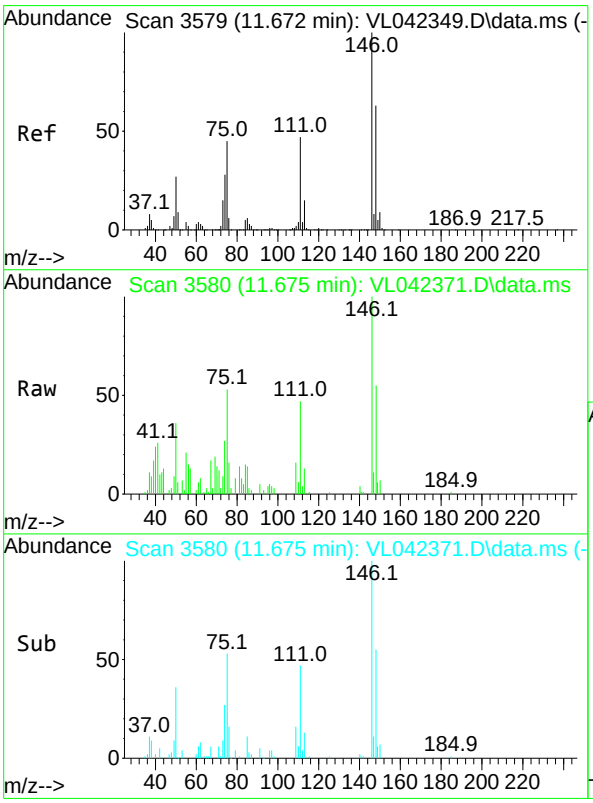
Ion	Ratio	Lower	Upper
105	100		
120	40.0	38.1	57.1
91	12.7	48.8	73.2#
77	14.6	19.0	28.4#



Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025

Manual Integrations APPROVED

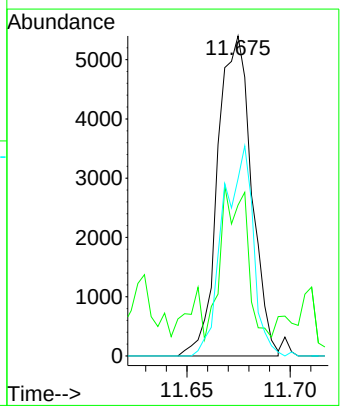
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

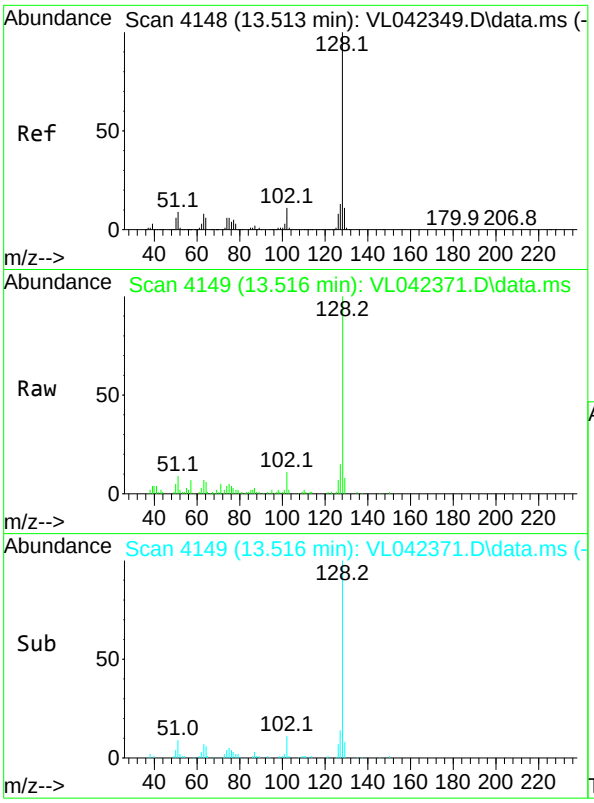


#76
1,4-Dichlorobenzene
Concen: 0.204 ppbv
RT: 11.675 min Scan# 3580
Delta R.T. 0.003 min
Lab File: VL042371.D
Acq: 17 Apr 2025 22:52

Tgt Ion:146 Resp: 6136

Ion	Ratio	Lower	Upper
146	100		
111	71.0	24.2	72.6
148	58.8	32.1	96.5

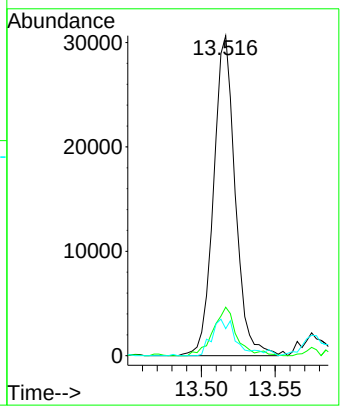




#79
Naphthalene
Concen: 0.454 ppbv
RT: 13.516 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL042371.D
Acq: 17 Apr 2025 22:52

Tgt Ion:128 Resp: 3128

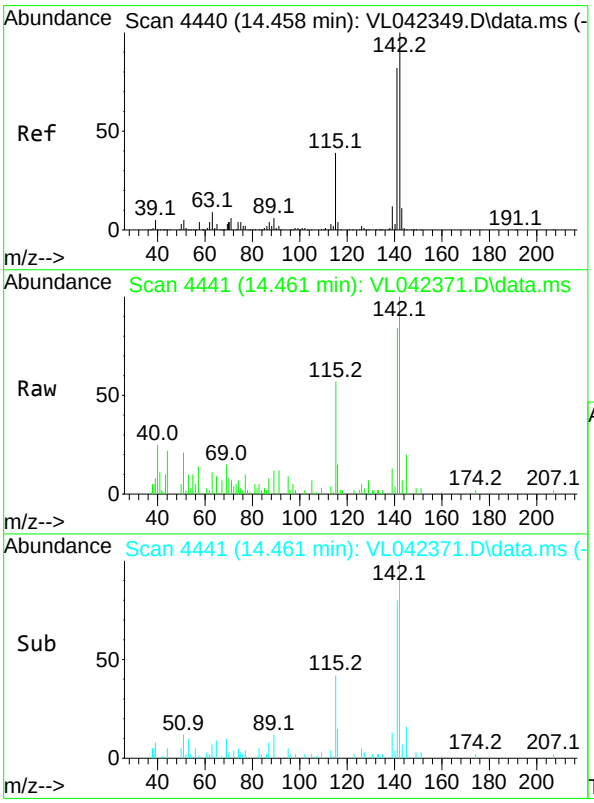
Ion	Ratio	Lower	Upper
128	100		
127	15.2	10.6	15.8
129	8.5	8.6	12.8#



Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025

Manual Integrations
APPROVED

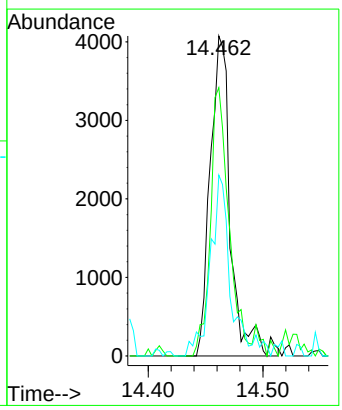
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#80
Naphthalene,2-methyl-
Concen: 0.128 ppbv
RT: 14.461 min Scan# 4441
Delta R.T. 0.003 min
Lab File: VL042371.D
Acq: 17 Apr 2025 22:52

Tgt Ion:142 Resp: 5013

Ion	Ratio	Lower	Upper
142	100		
141	80.6	66.8	100.2
115	60.7	33.4	50.2#



LSC Area Percent Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042371.D
Acq On : 17 Apr 2025 22:52
Operator : SY/MD
Sample : Q1726-06
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025

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: VL042371.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	4134196	4610486	66.29%	11.124%
2	1.466	423	426	429	rBV	274948	129904	1.87%	0.313%
3	1.489	429	433	435	rBV	355726	147060	2.11%	0.355%
4	1.528	441	445	451	rBV	674218	364646	5.24%	0.880%
5	1.560	451	455	459	rBV	1047250	532995	7.66%	1.286%
6	1.622	470	474	478	rVB	767173	390922	5.62%	0.943%
7	1.722	500	505	511	rVB	1252293	741224	10.66%	1.788%
8	1.835	535	540	550	rBV	7915808	6955429	100.00%	16.781%
9	1.887	550	556	561	rBV	870553	566212	8.14%	1.366%
10	2.062	600	610	614	rBV3	181276	177074	2.55%	0.427%
11	2.276	670	676	686	rVB	275266	243781	3.50%	0.588%
12	2.473	733	737	744	rVB2	162448	165794	2.38%	0.400%
13	2.560	759	764	773	rVB	87512	85343	1.23%	0.206%
14	2.625	775	784	793	rVB	121844	125733	1.81%	0.303%
15	2.790	827	835	841	rBV	415801	434667	6.25%	1.049%
16	2.826	841	846	859	rVB2	263442	328484	4.72%	0.793%
17	3.230	960	971	980	rVB2	130286	187052	2.69%	0.451%
18	3.285	980	988	1000	rVB3	78984	118337	1.70%	0.286%
19	3.661	1087	1104	1108	rBV4	64509	143641	2.07%	0.347%
20	3.690	1108	1113	1127	rVB	106251	159278	2.29%	0.384%
21	3.855	1154	1164	1177	rBV4	61079	110321	1.59%	0.266%
22	3.959	1185	1196	1208	rBV	540912	871230	12.53%	2.102%
23	4.052	1210	1225	1233	rVV2	202421	385722	5.55%	0.931%
24	4.098	1233	1239	1251	rVB3	97998	166572	2.39%	0.402%
25	4.273	1280	1293	1306	rVB4	218048	431196	6.20%	1.040%
26	4.444	1334	1346	1356	rBV4	47588	91431	1.31%	0.221%
27	4.642	1385	1407	1426	rVB2	606265	1411579	20.29%	3.406%
28	4.981	1500	1512	1526	rVB3	178573	342672	4.93%	0.827%
29	5.308	1597	1613	1631	rBV3	35342	103444	1.49%	0.250%
30	5.668	1703	1724	1744	rVB6	123206	362805	5.22%	0.875%
31	6.208	1877	1891	1901	rBV6	75037	199008	2.86%	0.480%
32	6.279	1912	1913	1930	rVB	88163	90902	1.31%	0.219%
33	6.830	2065	2083	2099	rBV3	275051	681902	9.80%	1.645%
34	6.936	2099	2116	2136	rVV2	1294318	2973049	42.74%	7.173%
35	7.189	2177	2194	2206	rBV2	98521	212387	3.05%	0.512%
36	7.377	2235	2252	2261	rBV5	135680	278892	4.01%	0.673%

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042371.D
Acq On : 17 Apr 2025 22:52
Operator : SY/MD
Sample : Q1726-06
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025

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	7.597	2310	2320	2338	rBV8	139506	421885	6.07%	1.018%
38	7.687	2338	2348	2364	rVB5	94112	196046	2.82%	0.473%
39	7.894	2400	2412	2432	rBV3	140056	328771	4.73%	0.793%
40	8.137	2476	2487	2499	rBV8	54415	108820	1.56%	0.263%
41	8.305	2523	2539	2556	rVB6	231569	517768	7.44%	1.249%
42	8.882	2703	2717	2728	rBV	716468	1097655	15.78%	2.648%
43	8.940	2728	2735	2741	rVV2	77015	125155	1.80%	0.302%
44	8.985	2741	2749	2764	rVB8	86665	200207	2.88%	0.483%
45	9.147	2791	2799	2813	rBV2	64480	106616	1.53%	0.257%
46	9.357	2853	2864	2877	rBV	411535	626638	9.01%	1.512%
47	9.532	2908	2918	2937	rVB	1073215	1994276	28.67%	4.812%
48	9.733	2966	2980	2992	rVB7	118512	263965	3.80%	0.637%
49	9.859	3007	3019	3027	rBV4	123443	200257	2.88%	0.483%
50	9.966	3037	3052	3062	rBV	586615	821124	11.81%	1.981%
51	10.377	3161	3179	3189	rBV2	903472	1364287	19.61%	3.292%
52	10.539	3221	3229	3236	rBV	60340	81053	1.17%	0.196%
53	10.804	3306	3311	3320	rBV5	68906	87517	1.26%	0.211%
54	10.859	3320	3328	3334	rVV	195322	238389	3.43%	0.575%
55	10.901	3334	3341	3353	rVB2	174323	220603	3.17%	0.532%
56	10.992	3353	3369	3383	rBV2	208628	309403	4.45%	0.746%
57	11.095	3391	3401	3407	rBV	730884	824374	11.85%	1.989%
58	11.125	3407	3410	3420	rVB	300079	310102	4.46%	0.748%
59	11.205	3420	3435	3443	rBV	372870	447940	6.44%	1.081%
60	11.312	3463	3468	3471	rBV4	89548	97382	1.40%	0.235%
61	11.338	3471	3476	3483	rVB	248075	270524	3.89%	0.653%
62	11.536	3529	3537	3550	rBV	1105993	1235893	17.77%	2.982%
63	11.756	3598	3605	3607	rBV2	157102	163930	2.36%	0.396%
64	11.775	3607	3611	3623	rVB	320403	386785	5.56%	0.933%
65	11.882	3637	3644	3652	rVB2	283642	306988	4.41%	0.741%
66	11.927	3652	3658	3669	rBV	61702	81152	1.17%	0.196%
67	12.021	3678	3687	3690	rBV2	169022	185430	2.67%	0.447%
68	12.044	3690	3694	3701	rVV3	182889	195998	2.82%	0.473%
69	12.089	3701	3708	3717	rVB3	68367	92995	1.34%	0.224%
70	12.225	3745	3750	3757	rVB2	232420	240539	3.46%	0.580%
71	12.270	3757	3764	3768	rBV3	89236	112656	1.62%	0.272%
72	12.296	3768	3772	3778	rVB2	151298	151476	2.18%	0.365%
73	12.406	3799	3806	3811	rBV2	77262	82288	1.18%	0.199%
74	12.442	3811	3817	3823	rVV	83883	81868	1.18%	0.198%
75	12.507	3832	3837	3842	rBV3	135170	180313	2.59%	0.435%
76	12.545	3846	3849	3855	rVB3	85648	84565	1.22%	0.204%

LSC Area Percent Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042371.D
Acq On : 17 Apr 2025 22:52
Operator : SY/MD
Sample : Q1726-06
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025

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	12.587	3855	3862	3875	rBV2	200079	276320	3.97%	0.667%
78	12.655	3875	3883	3894	rBV7	61171	112749	1.62%	0.272%
79	12.830	3932	3937	3942	rVB2	152238	143379	2.06%	0.346%
80	12.921	3956	3965	3970	rBV	95568	108439	1.56%	0.262%
81	12.953	3970	3975	3983	rVB2	126894	133643	1.92%	0.322%
82	13.128	4025	4029	4036	rVB2	80477	79714	1.15%	0.192%
83	13.228	4054	4060	4066	rBV2	102664	125661	1.81%	0.303%
84	13.335	4087	4093	4102	rBV9	51672	82252	1.18%	0.198%
85	13.387	4102	4109	4116	rVB3	120153	138551	1.99%	0.334%
86	13.662	4189	4194	4206	rVB6	50970	81716	1.17%	0.197%

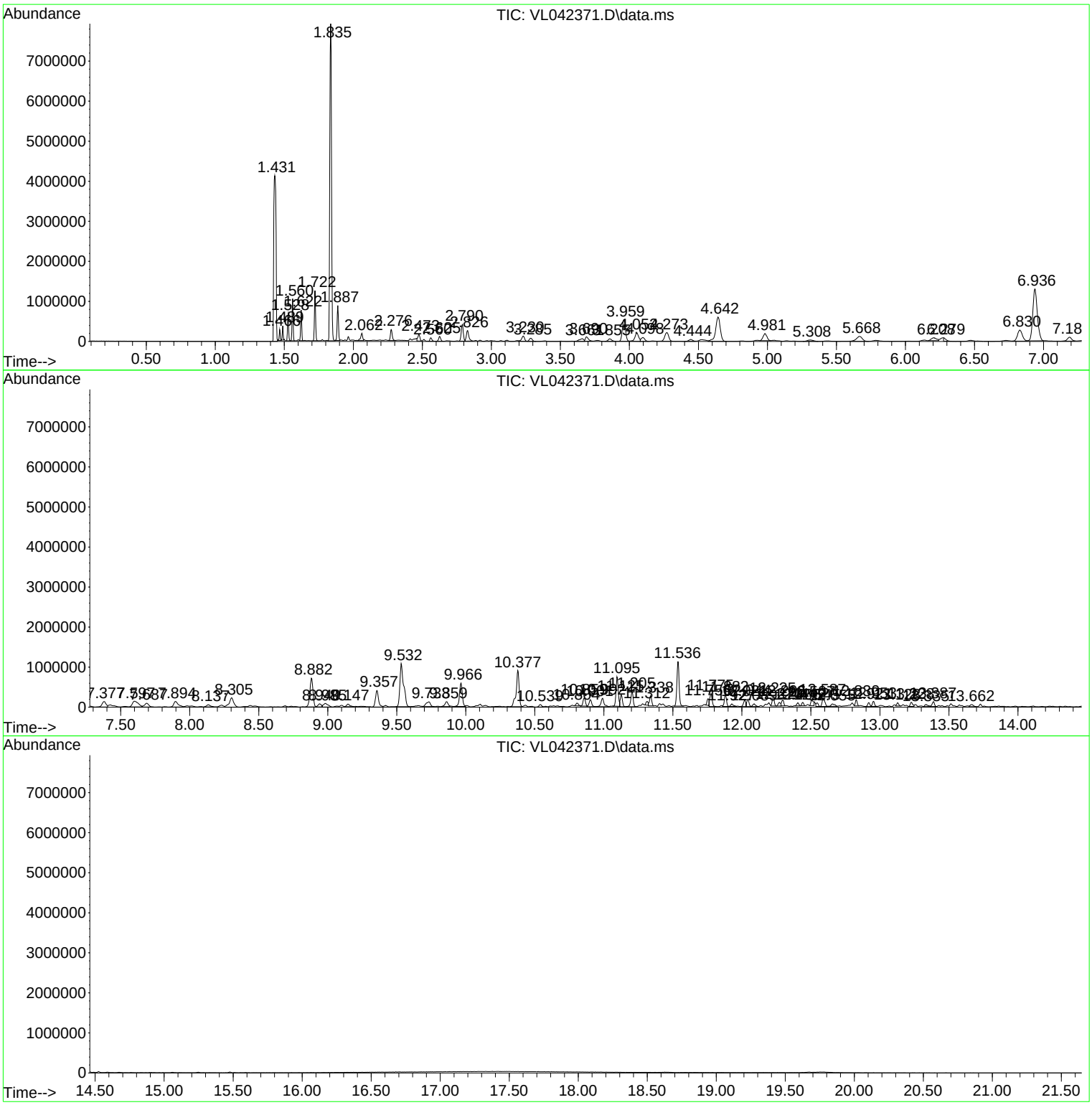
Sum of corrected areas: 41447231

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042371.D
Acq On : 17 Apr 2025 22:52
Operator : SY/MD
Sample : Q1726-06
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025

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 : VL042371.D
Acq On : 17 Apr 2025 22:52
Operator : SY/MD
Sample : Q1726-06
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025

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

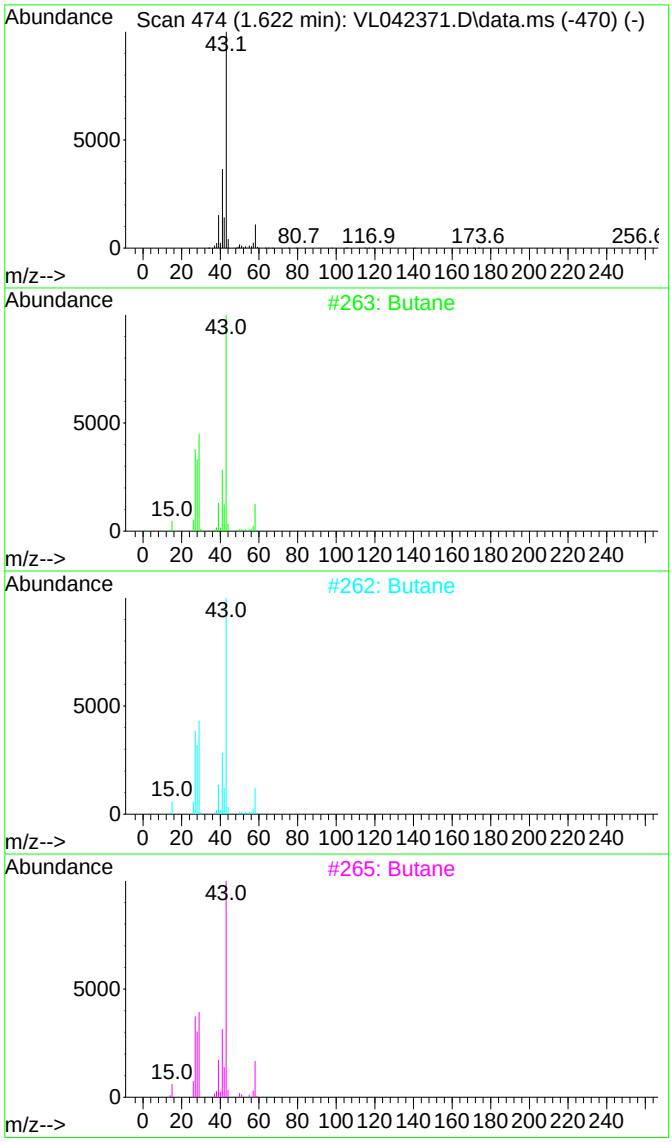
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

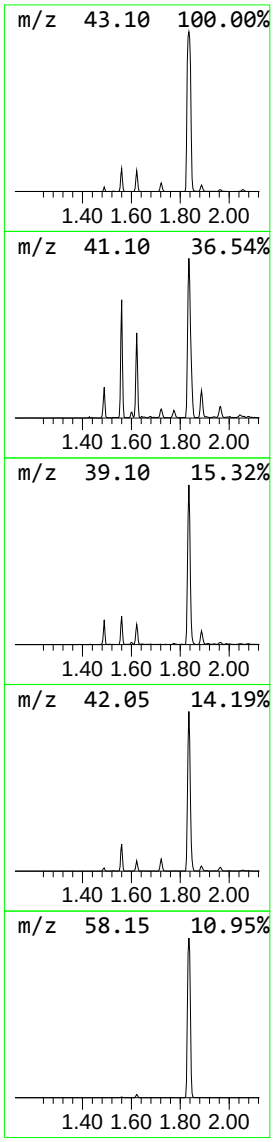
****

Peak Number 1 Butane Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.622	8.99 ppbv	390922	Bromochloromethane	2.787

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane	58	C4H10	000106-97-8	80
2	Butane	58	C4H10	000106-97-8	80
3	Butane	58	C4H10	000106-97-8	72
4	Butane	58	C4H10	000106-97-8	72
5	Isobutane	58	C4H10	000075-28-5	50





Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042371.D
Acq On : 17 Apr 2025 22:52
Operator : SY/MD
Sample : Q1726-06
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025

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

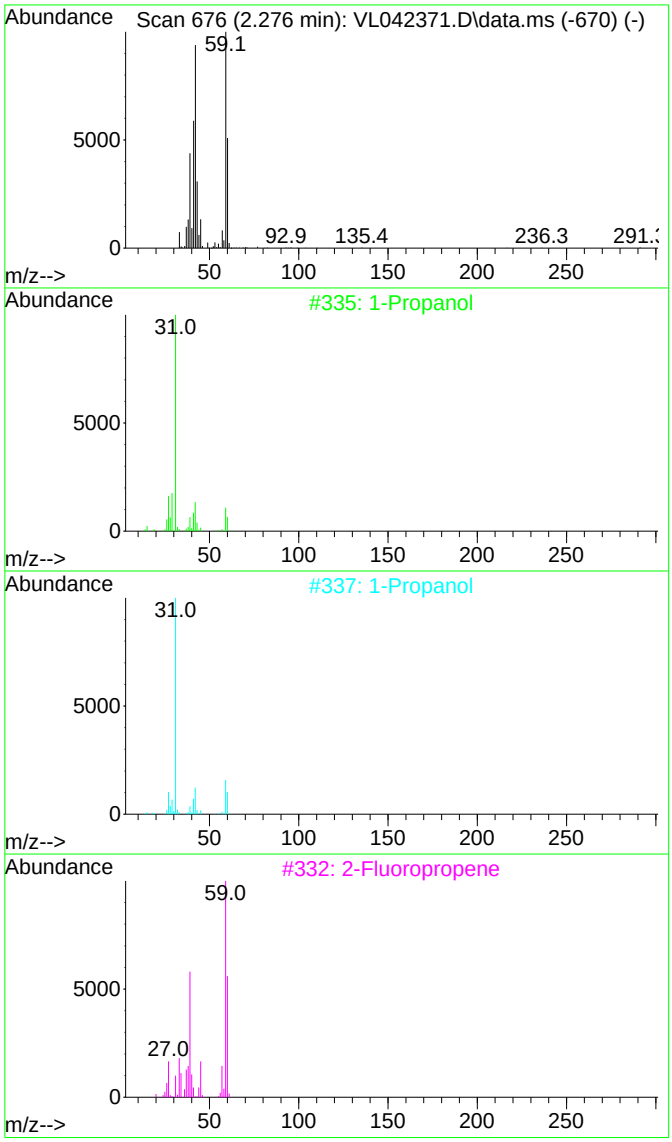
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

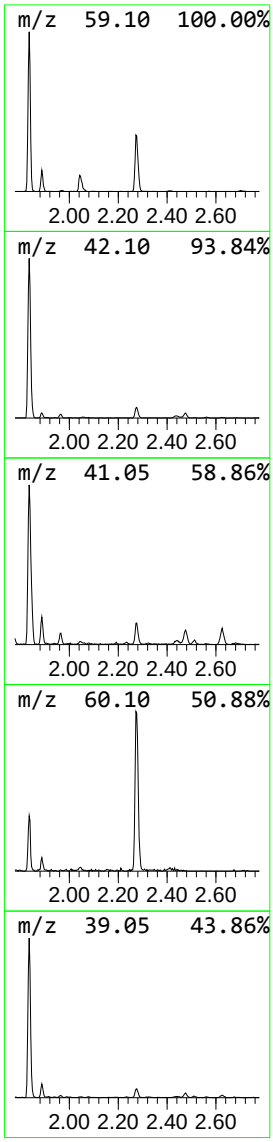
****

Peak Number 2 1-Propanol Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.276	5.61 ppbv	243781	Bromochloromethane	2.787

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Propanol	60	C3H8O	000071-23-8	58
2	1-Propanol	60	C3H8O	000071-23-8	53
3	2-Fluoropropene	60	C3H5F	001184-60-7	53
4	2-Fluoropropene	60	C3H5F	001184-60-7	43
5	1-Propanol	60	C3H8O	000071-23-8	40





Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042371.D
Acq On : 17 Apr 2025 22:52
Operator : SY/MD
Sample : Q1726-06
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025

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

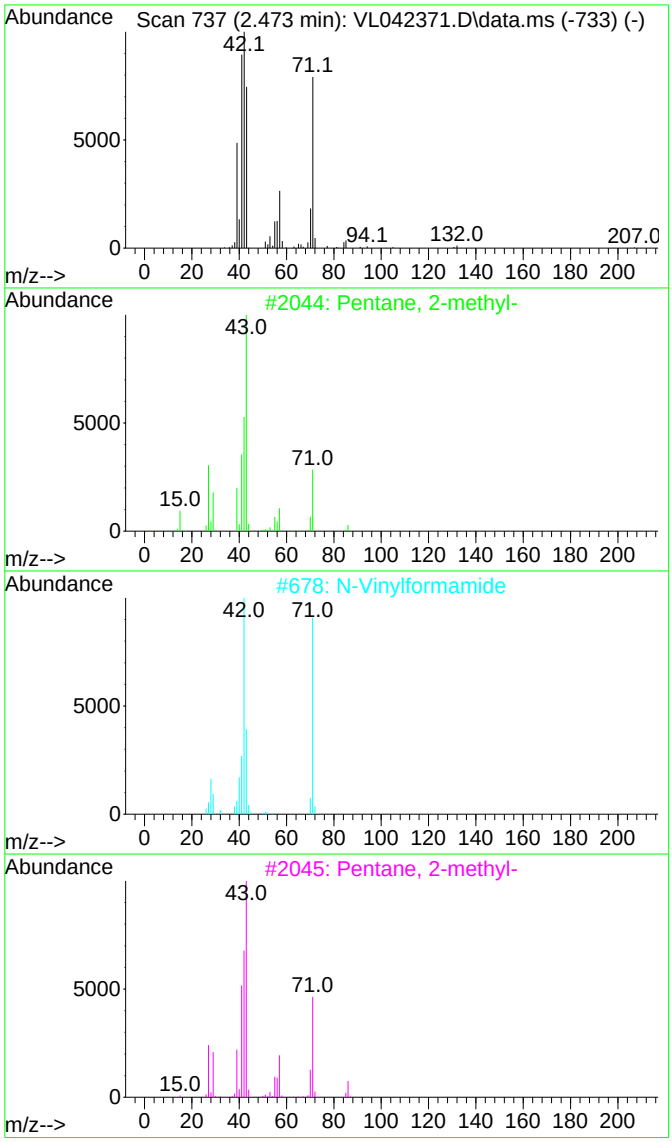
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

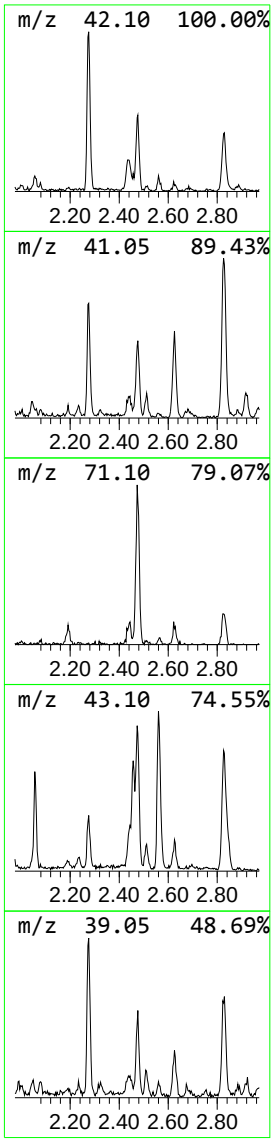
****

Peak Number 3 Pentane, 2-methyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.473	3.81 ppbv	165794	Bromochloromethane	2.787

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2-methyl-	86	C6H14	000107-83-5	56
2	N-Vinylformamide	71	C3H5NO	013162-05-5	50
3	Pentane, 2-methyl-	86	C6H14	000107-83-5	45
4	Pentane, 2-methyl-	86	C6H14	000107-83-5	42
5	Pentane, 2-methyl-	86	C6H14	000107-83-5	42





Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042371.D
Acq On : 17 Apr 2025 22:52
Operator : SY/MD
Sample : Q1726-06
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025

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

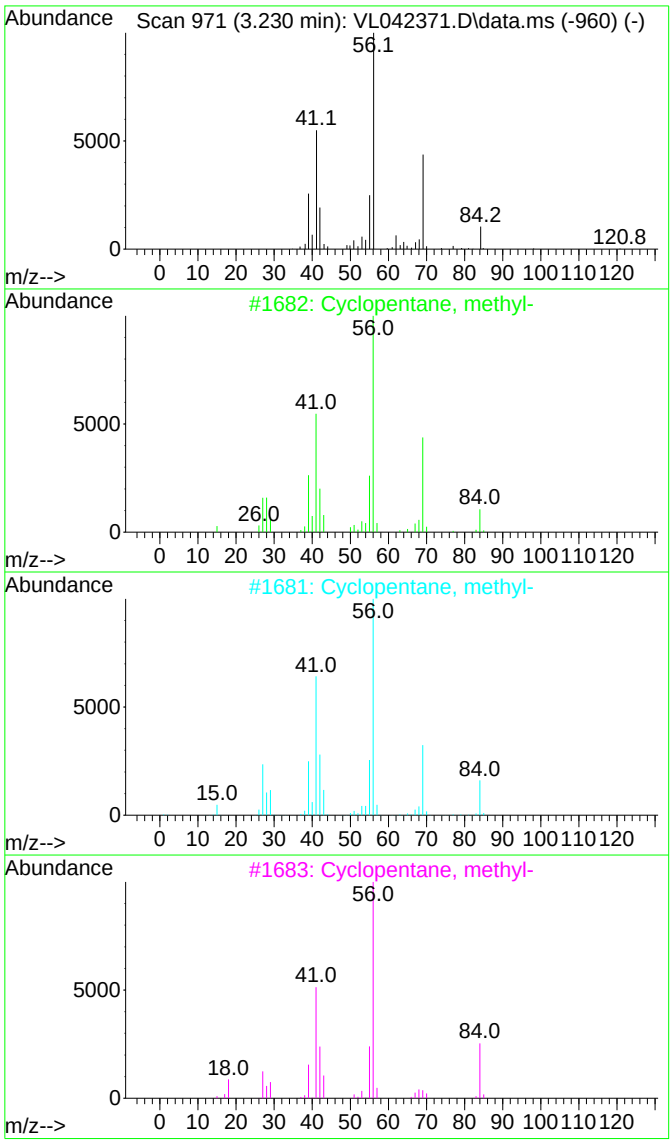
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

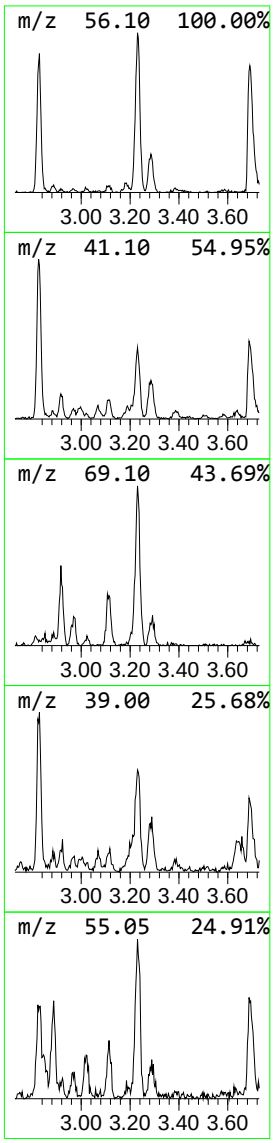
****

Peak Number 4 Cyclopentane, methyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.230	4.30 ppbv	187052	Bromochloromethane	2.787

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, methyl-	84	C6H12	000096-37-7	87
2	Cyclopentane, methyl-	84	C6H12	000096-37-7	86
3	Cyclopentane, methyl-	84	C6H12	000096-37-7	72
4	Cyclobutane, ethyl-	84	C6H12	004806-61-5	64
5	Cyclopentane, 1,1-dimethyl-	98	C7H14	001638-26-2	64





Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042371.D
Acq On : 17 Apr 2025 22:52
Operator : SY/MD
Sample : Q1726-06
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025

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

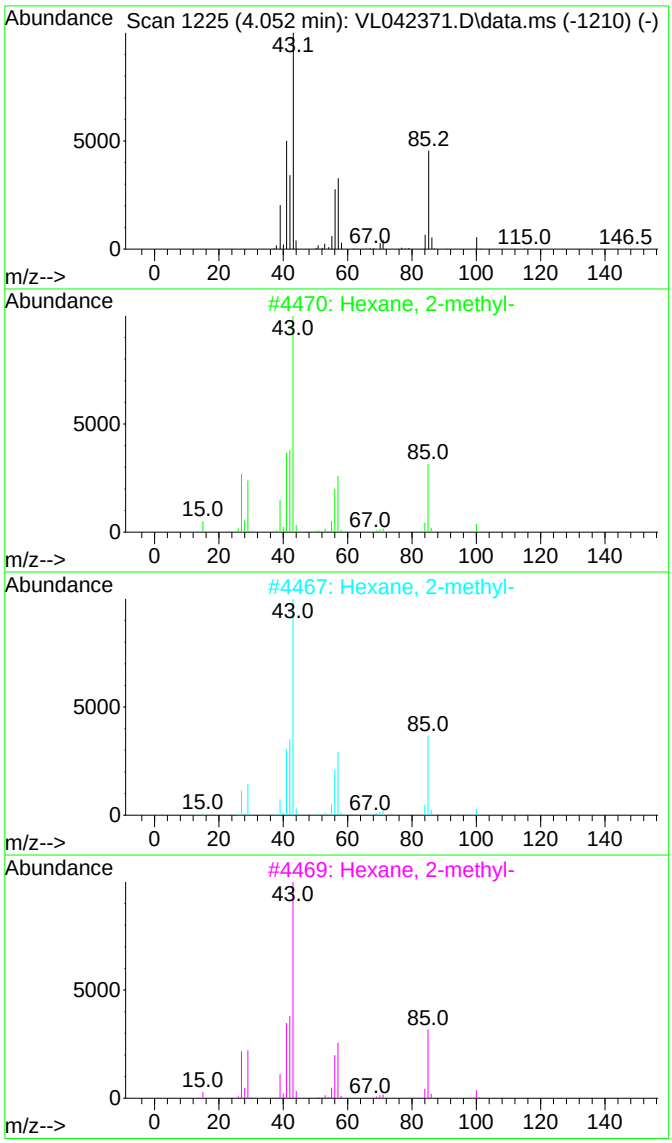
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

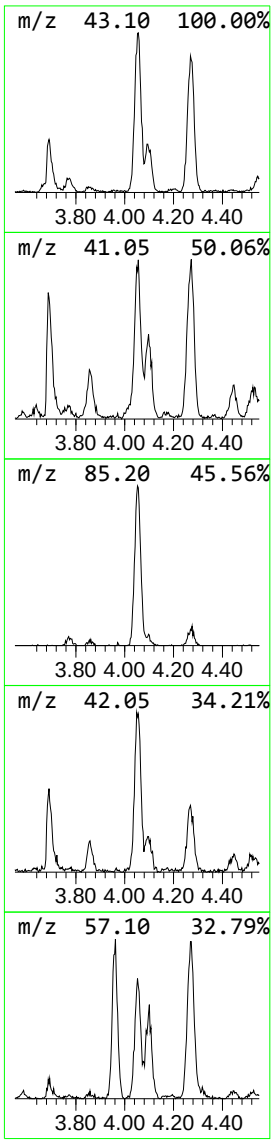
****

Peak Number 5 Hexane, 2-methyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.052	4.43 ppbv	385722	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	Heptane, 3-methyl-	114	C8H18	000589-81-1	59
5	Pentane, 2,4-dimethyl-	100	C7H16	000108-08-7	53





Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042371.D
Acq On : 17 Apr 2025 22:52
Operator : SY/MD
Sample : Q1726-06
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025

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

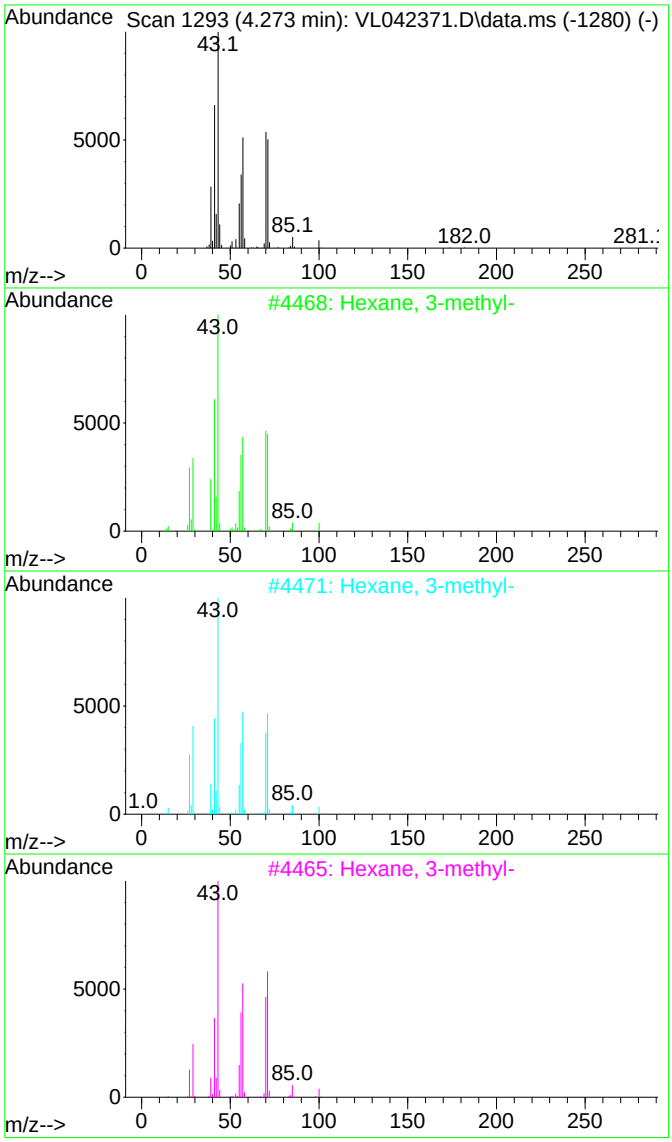
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

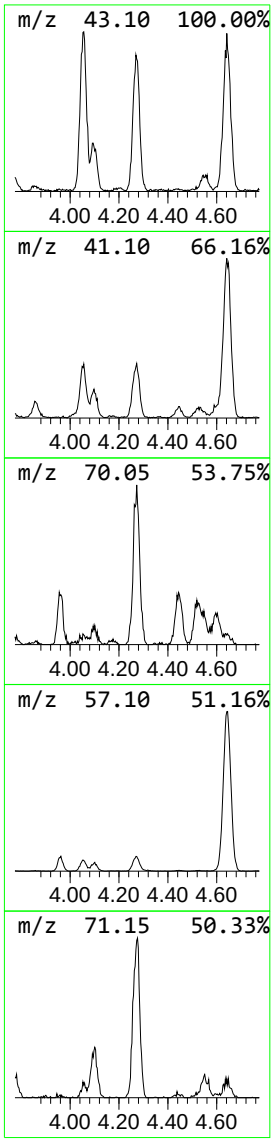
****

Peak Number 6 Hexane, 3-methyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.273	4.95 ppbv	431196	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	90
3	Hexane, 3-methyl-	100	C7H16	000589-34-4	90
4	Pentane, 3-ethyl-	100	C7H16	000617-78-7	64
5	Heptane, 4-methyl-	114	C8H18	000589-53-7	64





Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042371.D
Acq On : 17 Apr 2025 22:52
Operator : SY/MD
Sample : Q1726-06
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025

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

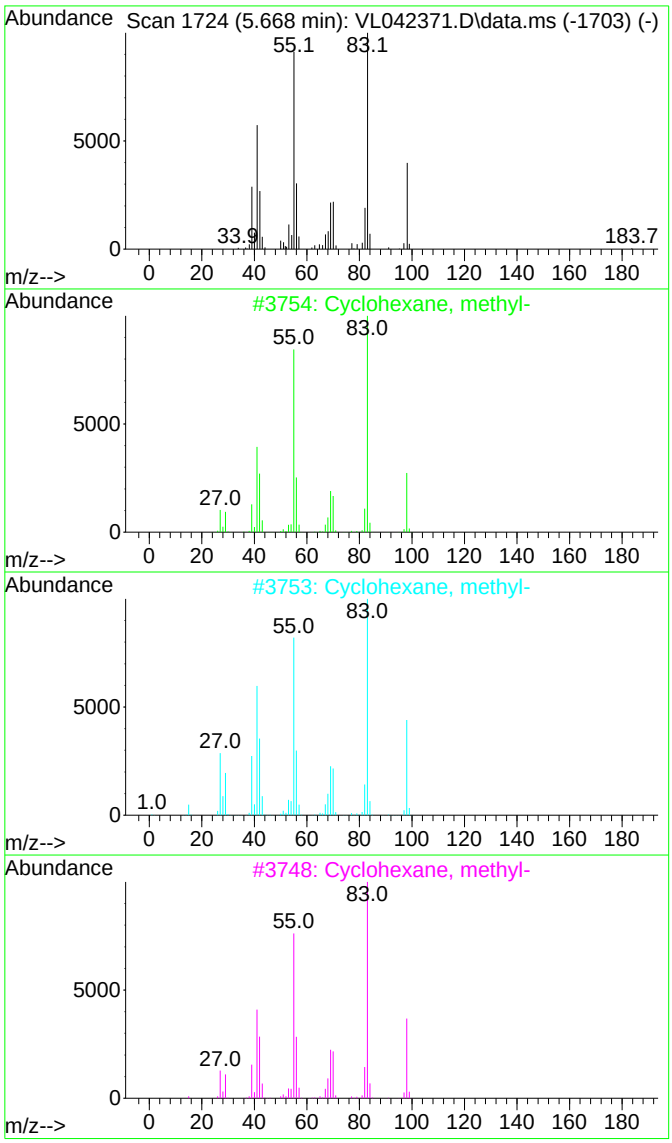
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

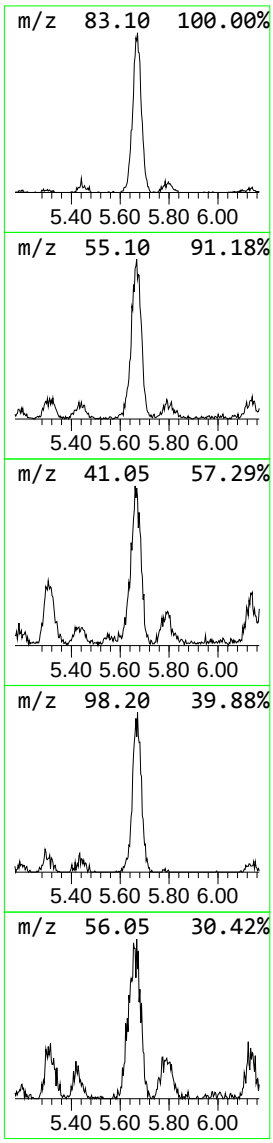
****

Peak Number 7 Cyclohexane, methyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.668	4.16 ppbv	362805	1,4-Difluorobenzene	3.959

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, methyl-	98	C7H14	000108-87-2	94
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	93
5	Cyclohexane, methyl-	98	C7H14	000108-87-2	90





Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042371.D
Acq On : 17 Apr 2025 22:52
Operator : SY/MD
Sample : Q1726-06
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025

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

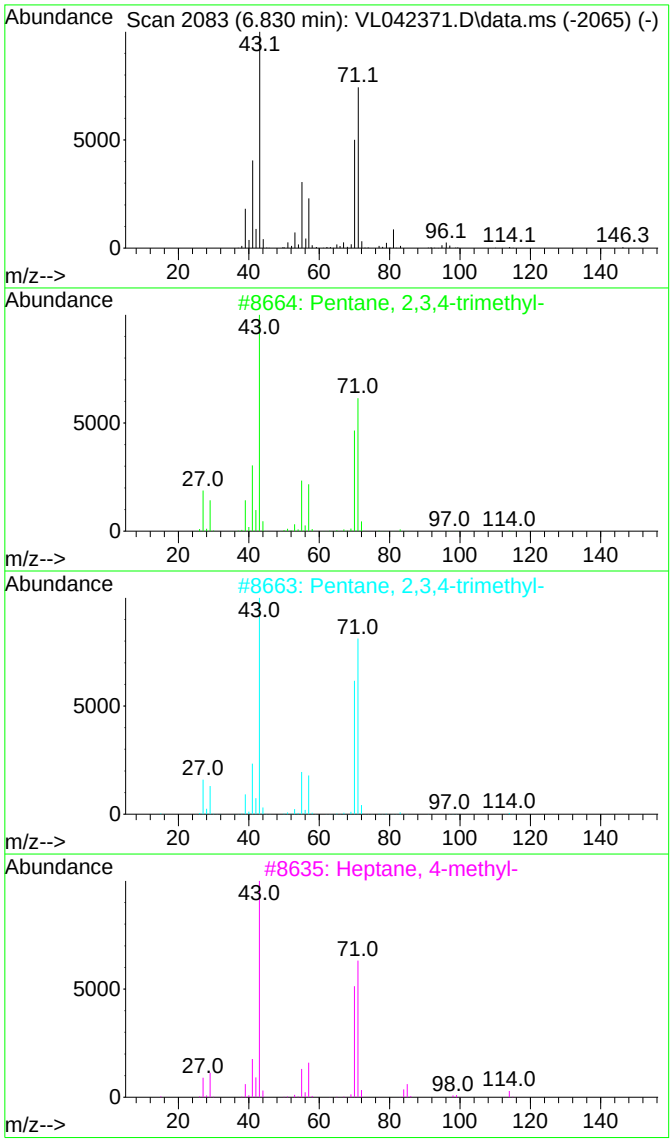
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

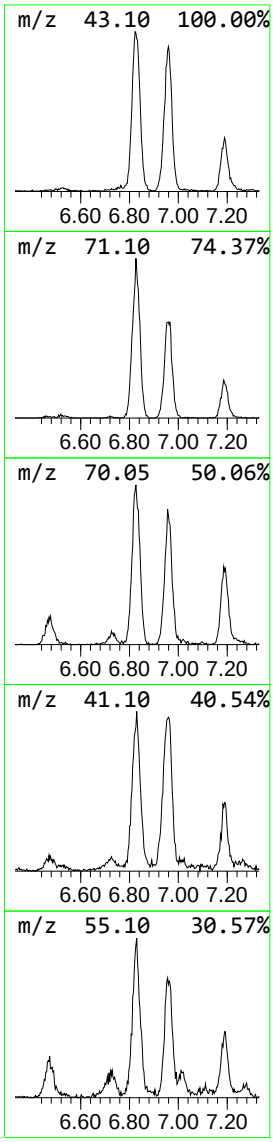
****

Peak Number 8 Pentane, 2,3,4-trimethyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.830	6.21 ppbv	681902	Chlorobenzene-d5	8.882

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	90
2	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	90
3	Heptane, 4-methyl-	114	C8H18	000589-53-7	78
4	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	74
5	Decane, 3,3,4-trimethyl-	184	C13H28	049622-18-6	72





Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042371.D
Acq On : 17 Apr 2025 22:52
Operator : SY/MD
Sample : Q1726-06
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025

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

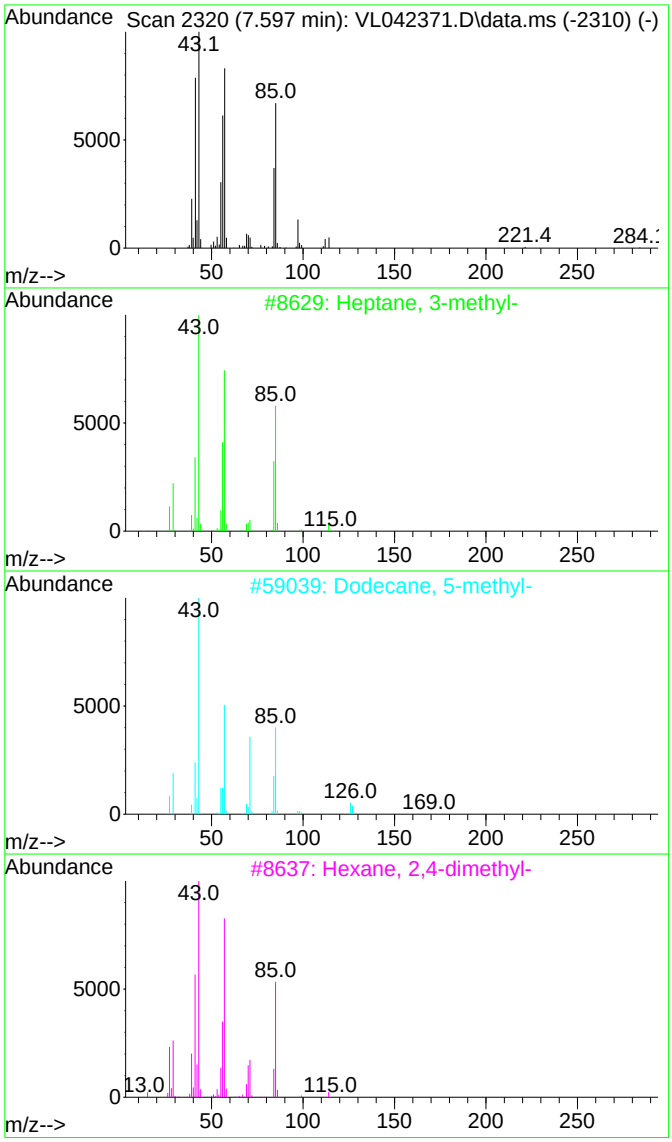
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

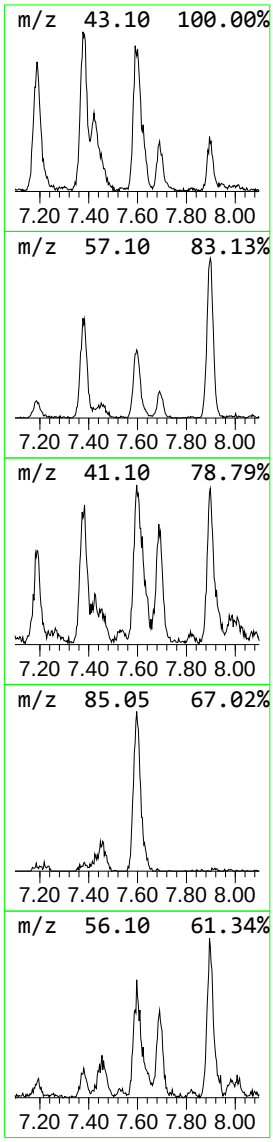
****

Peak Number 9 Heptane, 3-methyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.597	3.84 ppbv	421885	Chlorobenzene-d5	8.882

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptane, 3-methyl-	114	C8H18	000589-81-1	62
2	Dodecane, 5-methyl-	184	C13H28	017453-93-9	50
3	Hexane, 2,4-dimethyl-	114	C8H18	000589-43-5	49
4	2H-Pyran, 2-(1,1-dimethylethoxy)...	158	C9H18O2	001927-69-1	47
5	Hexane, 3,4-dimethyl-	114	C8H18	000583-48-2	47





Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042371.D
Acq On : 17 Apr 2025 22:52
Operator : SY/MD
Sample : Q1726-06
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025

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

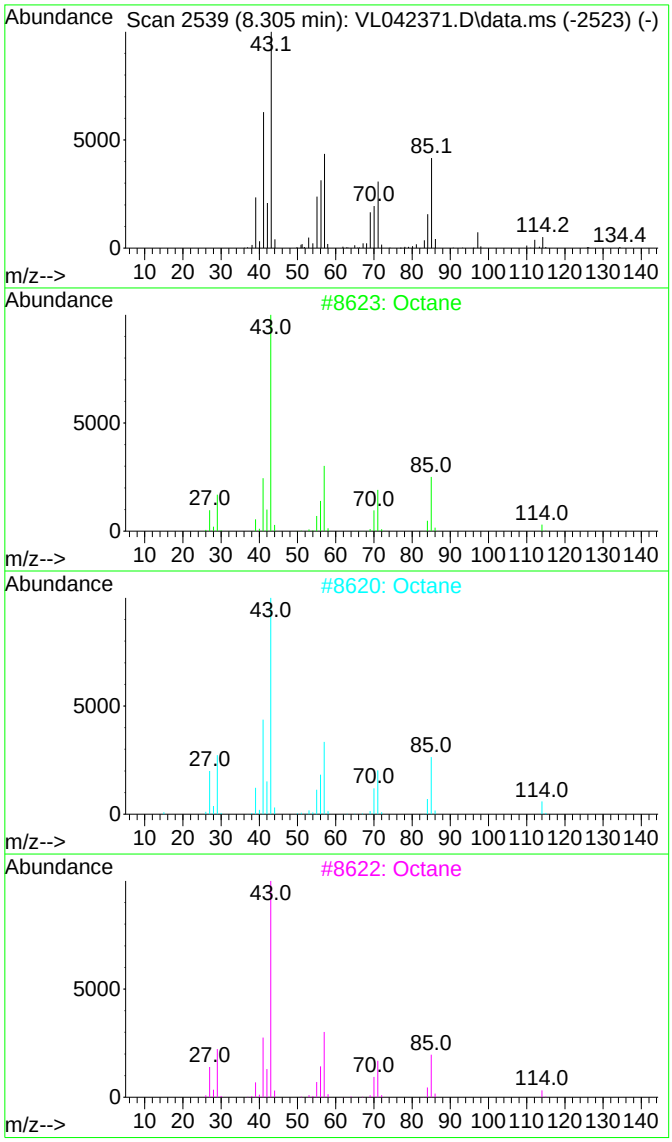
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

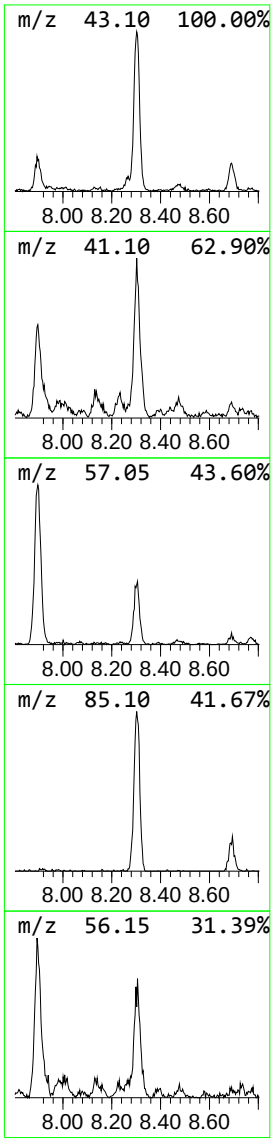
****

Peak Number 10 Octane Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.305	4.72 ppbv	517768	Chlorobenzene-d5	8.882

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octane	114	C8H18	000111-65-9	86
2	Octane	114	C8H18	000111-65-9	86
3	Octane	114	C8H18	000111-65-9	86
4	Octane	114	C8H18	000111-65-9	80
5	Heptane, 2,4-dimethyl-	128	C9H20	002213-23-2	53





Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042371.D
Acq On : 17 Apr 2025 22:52
Operator : SY/MD
Sample : Q1726-06
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025

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
Butane	1.622	9.0	ppbv	390922	1	2.787	434667	10.0
1-Propanol	2.276	5.6	ppbv	243781	1	2.787	434667	10.0
Pentane, 2-methyl-	2.473	3.8	ppbv	165794	1	2.787	434667	10.0
Cyclopentane, m...	3.230	4.3	ppbv	187052	1	2.787	434667	10.0
Hexane, 2-methyl-	4.052	4.4	ppbv	385722	2	3.959	871230	10.0
Hexane, 3-methyl-	4.273	5.0	ppbv	431196	2	3.959	871230	10.0
Cyclohexane, me...	5.668	4.2	ppbv	362805	2	3.959	871230	10.0
Pentane, 2,3,4-...	6.830	6.2	ppbv	681902	3	8.882	1097660	10.0
Heptane, 3-methyl-	7.597	3.8	ppbv	421885	3	8.882	1097660	10.0
Octane	8.305	4.7	ppbv	517768	3	8.882	1097660	10.0

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

Report of Analysis

Client:	Woodard & Curran	Date Collected:	04/01/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	IA-B2-3-03312025DL	SDG No.:	Q1726
Lab Sample ID:	Q1726-06DL	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
VL042381.D	20		04/18/25 04:05	VL041725

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	4.20	20.8	UD	20.8	49.5	ug/m3
64-17-5	Ethanol	370	697	EDQ	12.1	18.8	ug/m3
74-87-3	Chloromethane	2.00	4.13	UD	4.13	20.6	ug/m3
75-01-4	Vinyl Chloride	0.28	0.72	UD	0.72	1.53	ug/m3
74-83-9	Bromomethane	2.80	10.9	UD	10.9	38.8	ug/m3
75-00-3	Chloroethane	3.40	8.97	UD	8.97	26.4	ug/m3
109-99-9	Tetrahydrofuran	2.60	7.67	UD	7.67	29.5	ug/m3
75-69-4	Trichlorofluoromethane	3.20	18.0	UD	18.0	56.2	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	3.20	24.5	UD	24.5	76.7	ug/m3
76-14-2	Dichlorotetrafluoroethane	1.80	12.6	UD	12.6	69.9	ug/m3
593-60-2	Bromoethene	2.40	10.5	UD	10.5	43.7	ug/m3
75-65-0	tert-Butyl alcohol	3.80	11.5	UD	11.5	30.3	ug/m3
142-82-5	Heptane	3.90	16.0	JD	9.02	41.0	ug/m3
67-63-0	Isopropyl Alcohol	45.0	111	D	3.44	24.6	ug/m3
75-35-4	1,1-Dichloroethene	2.80	11.1	UD	11.1	39.6	ug/m3
67-64-1	Acetone	670	1590	ED	11.4	23.8	ug/m3
75-15-0	Carbon Disulfide	3.20	9.97	UD	9.97	31.1	ug/m3
1634-04-4	Methyl tert-Butyl Ether	2.40	8.65	UD	8.65	36.0	ug/m3
75-09-2	Methylene Chloride	3.80	13.2	UD	13.2	34.7	ug/m3
156-60-5	trans-1,2-Dichloroethene	3.80	15.1	UD	15.1	39.6	ug/m3
75-34-3	1,1-Dichloroethane	2.60	10.5	UD	10.5	40.5	ug/m3
110-82-7	Cyclohexane	4.40	15.2	UD	15.2	34.4	ug/m3
78-93-3	2-Butanone	3.20	9.44	JD	7.08	29.5	ug/m3
56-23-5	Carbon Tetrachloride	0.22	1.38	UD	1.38	3.77	ug/m3
156-59-2	cis-1,2-Dichloroethene	1.80	7.14	UD	7.14	39.6	ug/m3
67-66-3	Chloroform	1.70	8.30	UD	8.30	48.8	ug/m3
71-55-6	1,1,1-Trichloroethane	0.19	1.04	UD	1.04	3.27	ug/m3
540-84-1	2,2,4-Trimethylpentane	9.90	46.2	JD	9.34	46.7	ug/m3
71-43-2	Benzene	1.70	5.43	UD	5.43	31.9	ug/m3
107-06-2	1,2-Dichloroethane	1.80	7.29	UD	7.29	40.5	ug/m3
79-01-6	Trichloroethene	0.34	1.83	UD	1.83	3.22	ug/m3
78-87-5	1,2-Dichloropropane	2.20	10.2	UD	10.2	46.2	ug/m3
75-27-4	Bromodichloromethane	1.50	10.1	UD	10.1	67.0	ug/m3
108-10-1	4-Methyl-2-Pentanone	1.90	7.79	UD	7.79	41.0	ug/m3
108-88-3	Toluene	23.3	87.8	D	8.29	37.7	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:	04/01/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	IA-B2-3-03312025DL	SDG No.:	Q1726
Lab Sample ID:	Q1726-06DL	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
VL042381.D	20		04/18/25 04:05	VL041725

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	1.20	5.45	UD	5.45	45.4	ug/m3
10061-01-5	cis-1,3-Dichloropropene	1.30	5.90	UD	5.90	45.4	ug/m3
79-00-5	1,1,2-Trichloroethane	1.40	7.64	UD	7.64	54.6	ug/m3
124-48-1	Dibromochloromethane	1.30	11.1	UD	11.1	85.2	ug/m3
106-93-4	1,2-Dibromoethane	1.40	10.8	UD	10.8	15.4	ug/m3
127-18-4	Tetrachloroethene	0.30	2.03	UD	2.03	4.07	ug/m3
108-90-7	Chlorobenzene	1.50	6.91	UD	6.91	46.0	ug/m3
100-41-4	Ethyl Benzene	4.40	19.1	JD	10.4	43.4	ug/m3
179601-23-1	m/p-Xylene	15.7	68.2	JD	18.2	86.9	ug/m3
95-47-6	o-Xylene	6.00	26.1	JD	10.4	43.4	ug/m3
100-42-5	Styrene	2.20	9.37	UD	9.37	42.6	ug/m3
75-25-2	Bromoform	1.10	11.4	UD	11.4	103	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	0.22	1.51	UD	1.51	4.12	ug/m3
95-49-8	2-Chlorotoluene	2.20	11.4	UD	11.4	51.8	ug/m3
108-67-8	1,3,5-Trimethylbenzene	2.70	13.3	JD	10.8	49.2	ug/m3
95-63-6	1,2,4-Trimethylbenzene	7.60	37.4	JD	7.87	49.2	ug/m3
541-73-1	1,3-Dichlorobenzene	1.60	9.62	UD	9.62	60.1	ug/m3
106-46-7	1,4-Dichlorobenzene	1.10	6.61	UD	6.61	60.1	ug/m3
95-50-1	1,2-Dichlorobenzene	1.50	9.02	UD	9.02	60.1	ug/m3
120-82-1	1,2,4-Trichlorobenzene	1.70	12.6	UD	12.6	74.2	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	1.70	18.1	UD	18.1	107	ug/m3
106-99-0	1,3-Butadiene	2.60	5.75	UD	5.75	22.1	ug/m3
91-20-3	Naphthalene	1.50	7.86	UD	7.86	10.5	ug/m3
622-96-8	4-Ethyltoluene	2.40	11.8	UD	11.8	49.2	ug/m3
110-54-3	Hexane	2.20	7.75	UD	7.75	35.2	ug/m3
107-05-1	Allyl Chloride	3.00	9.39	UD	9.39	31.3	ug/m3
123-91-1	1,4-Dioxane	4.20	15.1	UD	15.1	36.0	ug/m3
80-62-6	Methyl Methacrylate	1.70	6.96	UD	6.96	41.0	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	10.3			70 (65) - 130 (135)	103%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	87600		2.784			
540-36-3	1,4-Difluorobenzene	247000		3.952			
3114-55-4	Chlorobenzene-d5	211000		8.875			

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

Report of Analysis

Client:	Woodard & Curran	Date Collected:	04/01/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	IA-B2-3-03312025DL	SDG No.:	Q1726
Lab Sample ID:	Q1726-06DL	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
VL042381.D	20		04/18/25 04:05	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 : VL042381.D
Acq On : 18 Apr 2025 04:05
Operator : SY/MD
Sample : Q1726-06DL 20X
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 18 04:42:23 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 02:14:00 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025DL

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	87593	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.952	114	246915	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.875	117	211054	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.370	95	179405	10.344	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 103.400%				
Target Compounds							Qvalue
9) Propene	1.486	41	1388m	0.207	ppbv		
10) Heptane	4.965	43	3685m	0.195	ppbv		
13) Ethanol	1.719	45	19745	18.510	ppbv		80
15) Acetone	1.832	43	477735	33.317	ppbv		98
19) Isopropyl Alcohol	1.884	45	17914	2.249	ppbv	#	1
34) 2-Butanone	2.557	43	3077m	0.158	ppbv		
44) 2,2,4-Trimethylpentane	4.635	57	22777	0.495	ppbv		93
53) Toluene	6.927	91	37165m	1.163	ppbv		
58) Ethyl Benzene	9.348	91	9155	0.219	ppbv		90
59) m/p-Xylene	9.526	91	26414m	0.784	ppbv		
60) o-Xylene	9.959	91	10141	0.299	ppbv		100
73) 1,3,5-Trimethylbenzene	11.196	105	4940	0.135	ppbv		87
74) 1,2,4-Trimethylbenzene	11.532	105	16215	0.379	ppbv	#	61

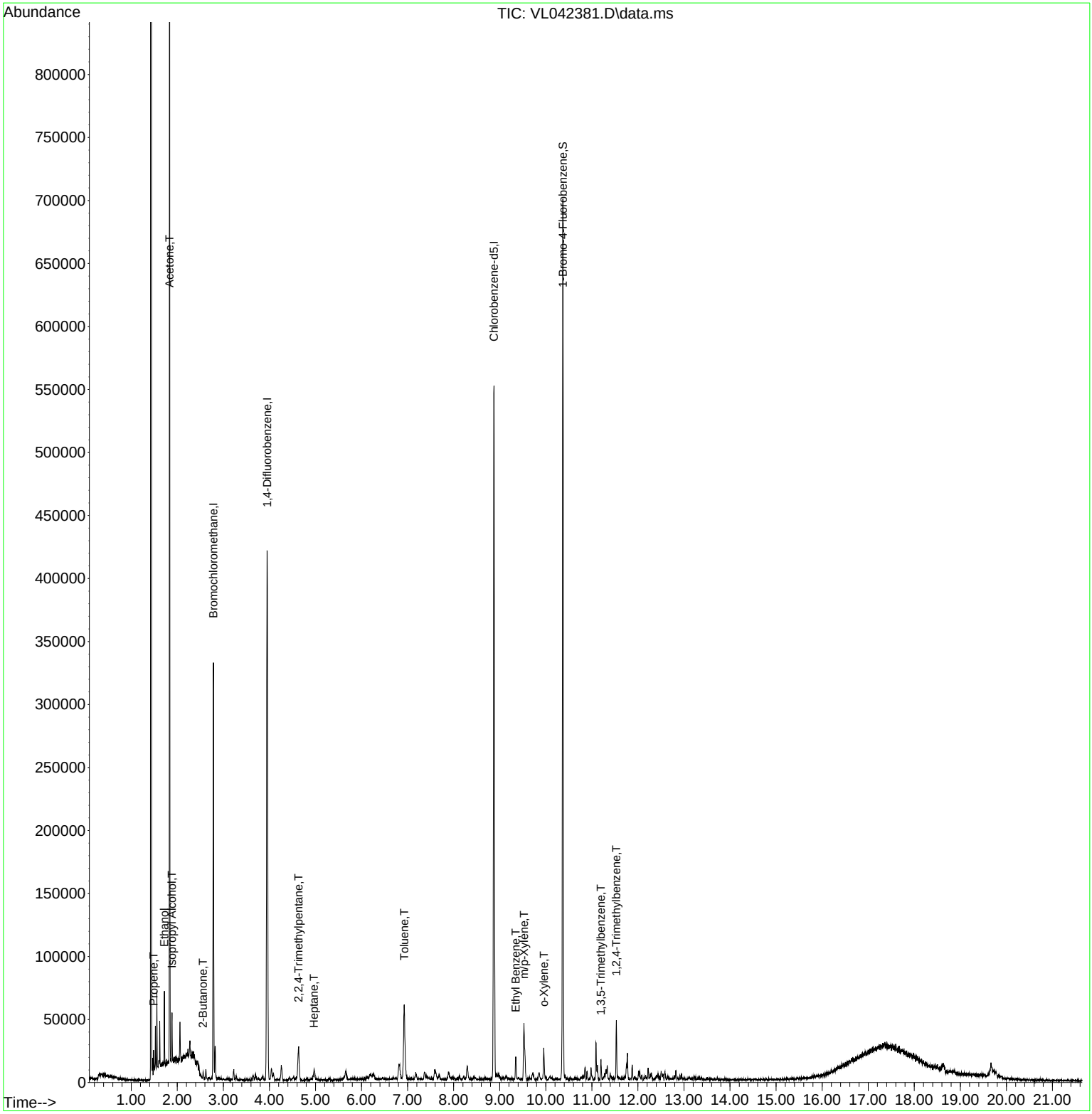
(#) = qualifier out of range (m) = manual integration (+) = signals summed

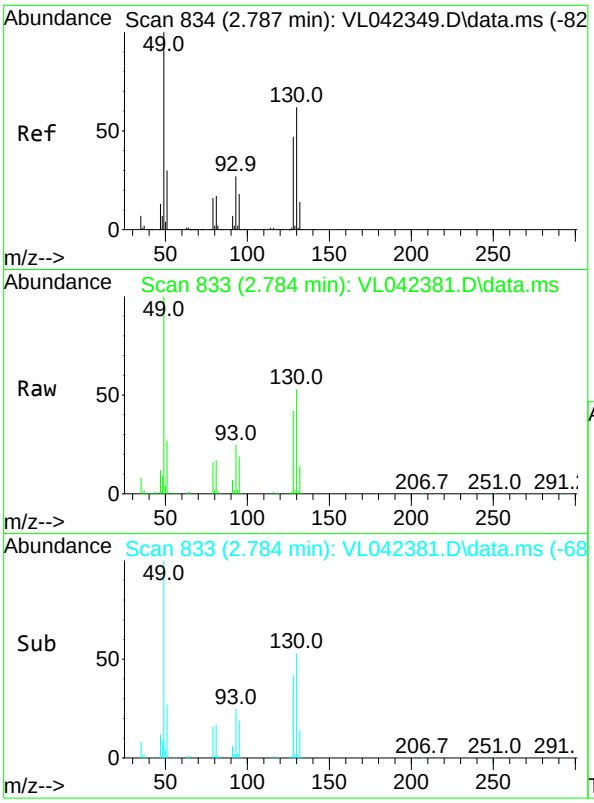
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042381.D
Acq On : 18 Apr 2025 04:05
Operator : SY/MD
Sample : Q1726-06DL 20X
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 18 04:42:23 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 02:14:00 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025DL

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: VL042381.D
Acq: 18 Apr 2025 04:05

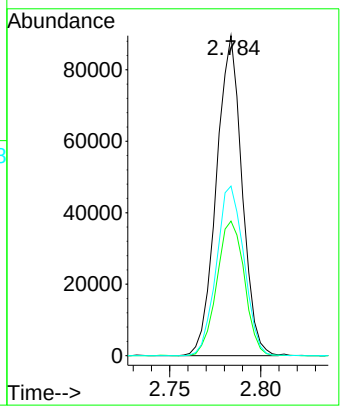
Tgt Ion: 49 Resp: 8759

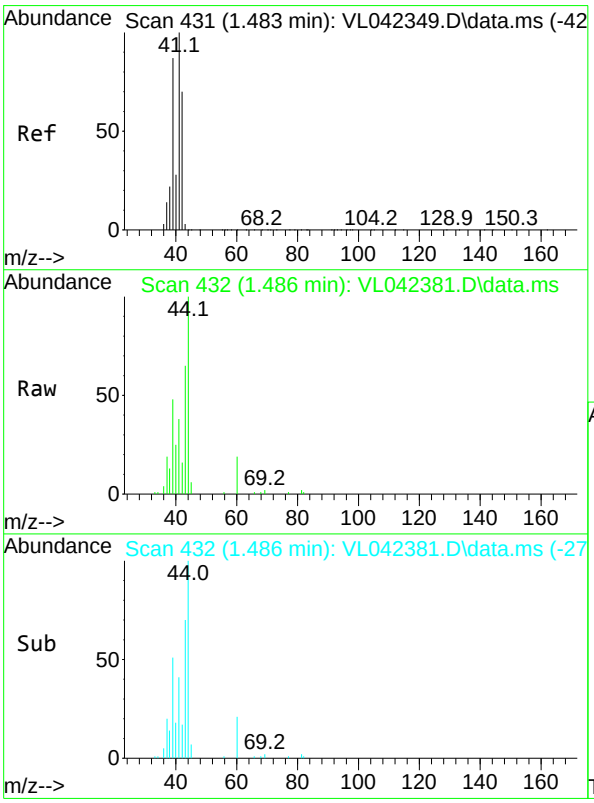
Ion	Ratio	Lower	Upper
49	100		
128	45.3	22.8	68.4
130	56.9	29.3	88.0

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025DL

Manual Integrations
APPROVED

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

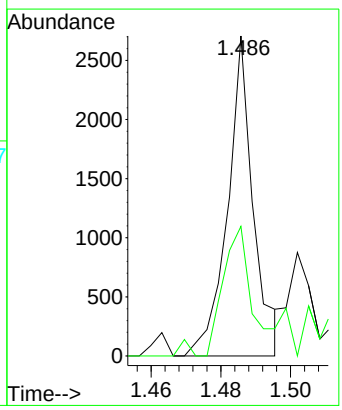


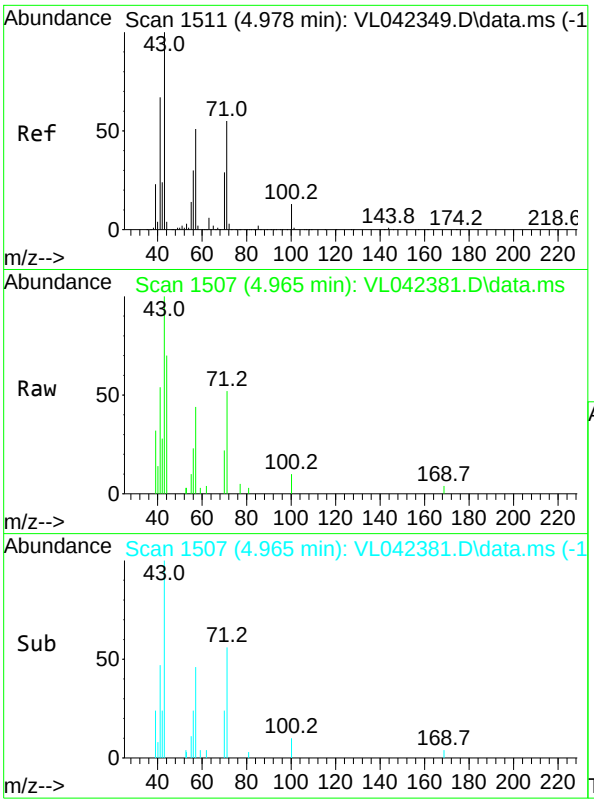


#9
Propene
Concen: 0.207 ppbv m
RT: 1.486 min Scan# 432
Delta R.T. 0.003 min
Lab File: VL042381.D
Acq: 18 Apr 2025 04:05

Tgt Ion: 41 Resp: 1388

Ion	Ratio	Lower	Upper
41	100		
42	259.2	56.2	84.4#





#10
Heptane
Concen: 0.195 ppbv m
RT: 4.965 min Scan# 1
Delta R.T. -0.013 min
Lab File: VL042381.D
Acq: 18 Apr 2025 04:05

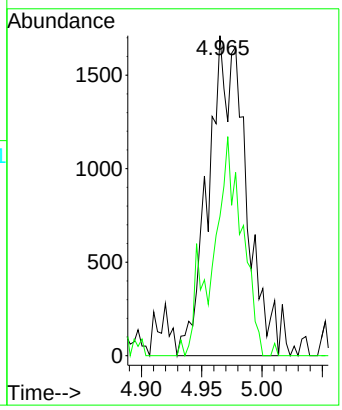
Tgt Ion: 43 Resp: 368

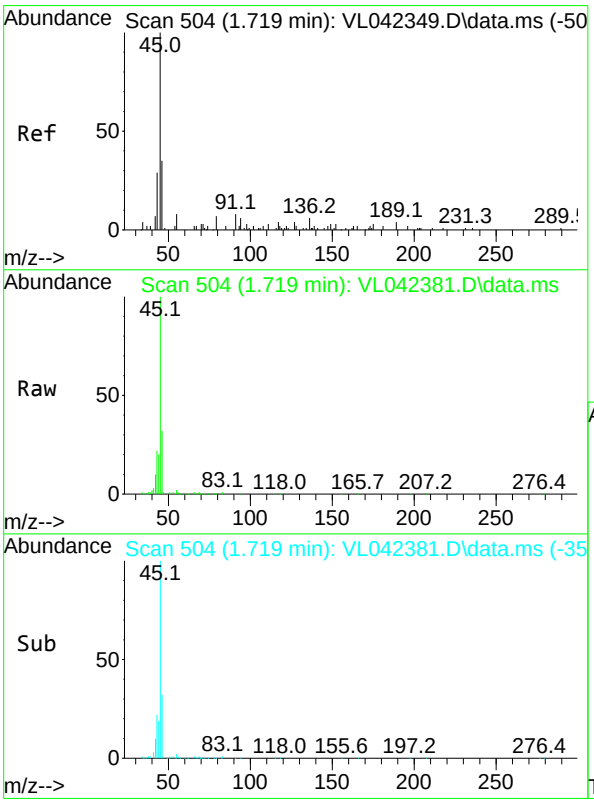
Ion	Ratio	Lower	Upper
43	100		
57	54.5	39.9	59.9

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025DL

Manual Integrations
APPROVED

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

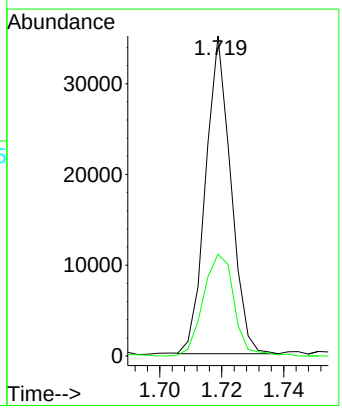


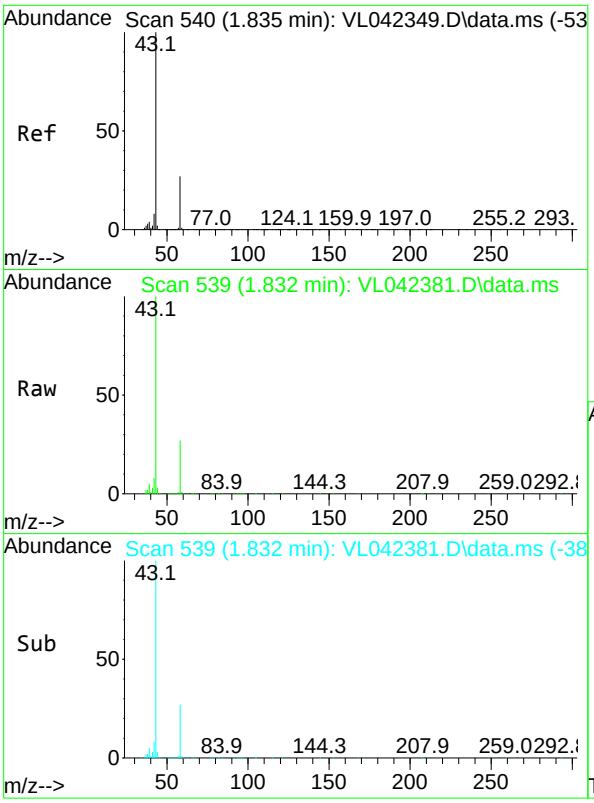


#13
Ethanol
Concen: 18.510 ppbv
RT: 1.719 min Scan# 504
Delta R.T. -0.000 min
Lab File: VL042381.D
Acq: 18 Apr 2025 04:05

Tgt Ion: 45 Resp: 19745

Ion	Ratio	Lower	Upper
45	100		
46	40.4	21.9	87.7

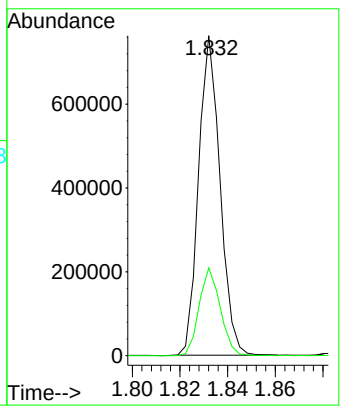




#15
Acetone
Concen: 33.317 ppbv
RT: 1.832 min Scan# 5
Delta R.T. -0.003 min
Lab File: VL042381.D
Acq: 18 Apr 2025 04:05

Tgt Ion: 43 Resp: 47773

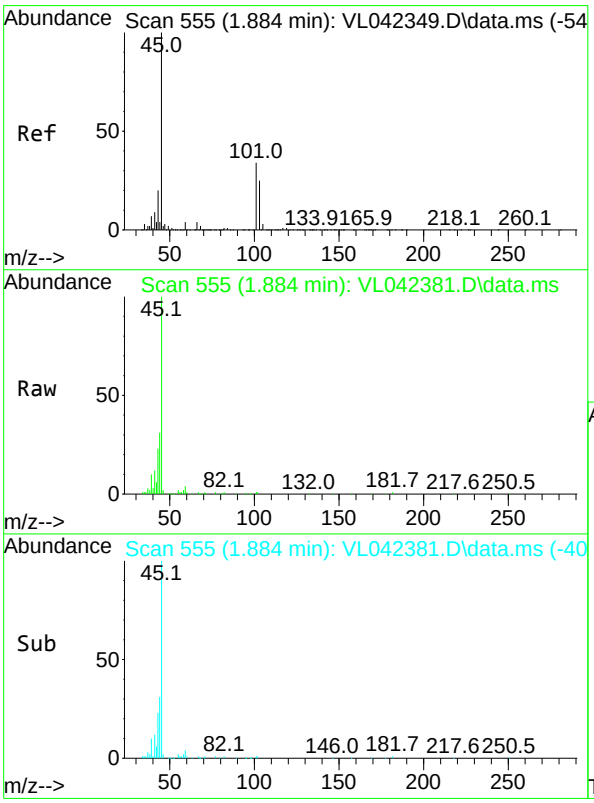
Ion	Ratio	Lower	Upper
43	100		
58	27.2	22.4	33.6



Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025DL

Manual Integrations
APPROVED

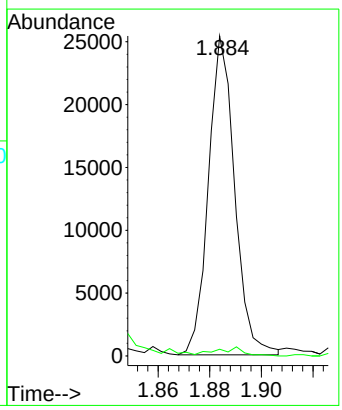
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

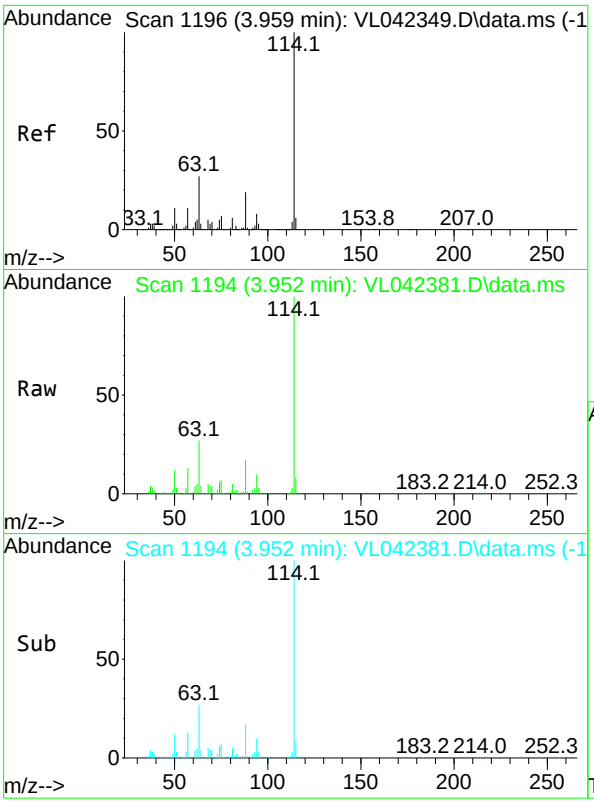


#19
Isopropyl Alcohol
Concen: 2.249 ppbv
RT: 1.884 min Scan# 555
Delta R.T. -0.000 min
Lab File: VL042381.D
Acq: 18 Apr 2025 04:05

Tgt Ion: 45 Resp: 17914

Ion	Ratio	Lower	Upper
45	100		
58	724.8	34.5	51.7#





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.952 min Scan# 1
Delta R.T. -0.007 min
Lab File: VL042381.D
Acq: 18 Apr 2025 04:05

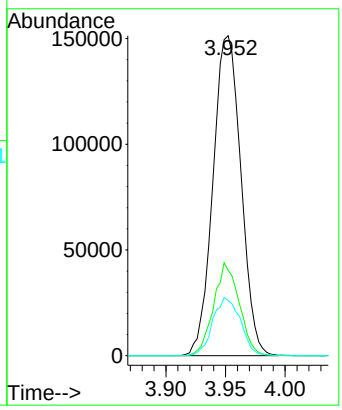
Tgt Ion:114 Resp: 24691

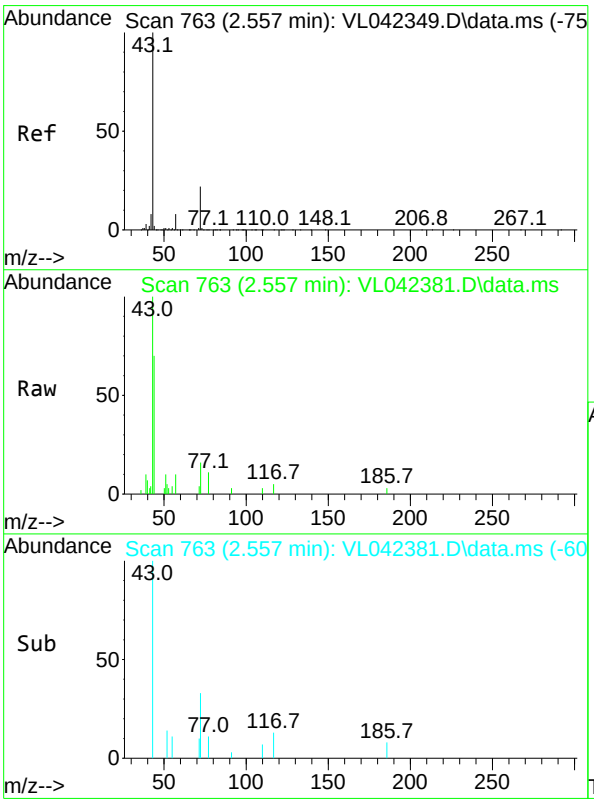
Ion	Ratio	Lower	Upper
114	100		
63	26.6	21.8	32.6
88	17.9	15.5	23.3

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025DL

Manual Integrations
APPROVED

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

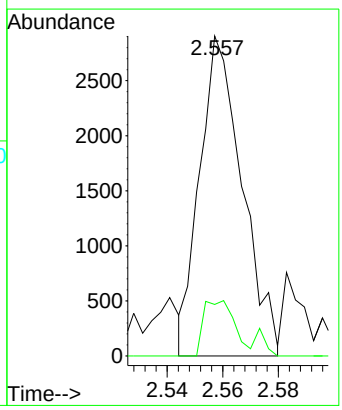


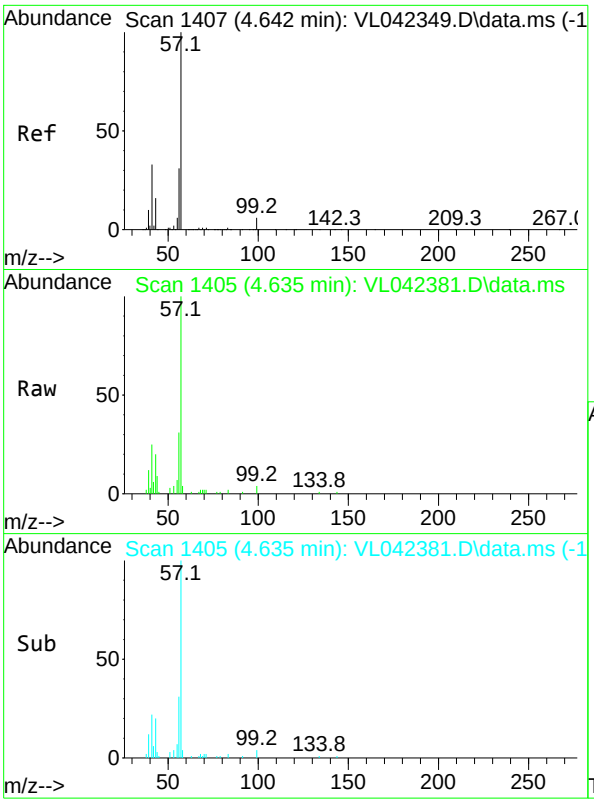


#34
2-Butanone
Concen: 0.158 ppbv m
RT: 2.557 min Scan# 763
Delta R.T. -0.000 min
Lab File: VL042381.D
Acq: 18 Apr 2025 04:05

Tgt Ion: 43 Resp: 3077

Ion	Ratio	Lower	Upper
43	100		
72	14.7	18.2	27.2#

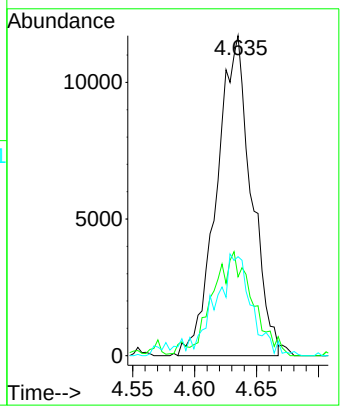




#44
2,2,4-Trimethylpentane
Concen: 0.495 ppbv
RT: 4.635 min Scan# 14
Delta R.T. -0.007 min
Lab File: VL042381.D
Acq: 18 Apr 2025 04:05

Tgt Ion: 57 Resp: 2277

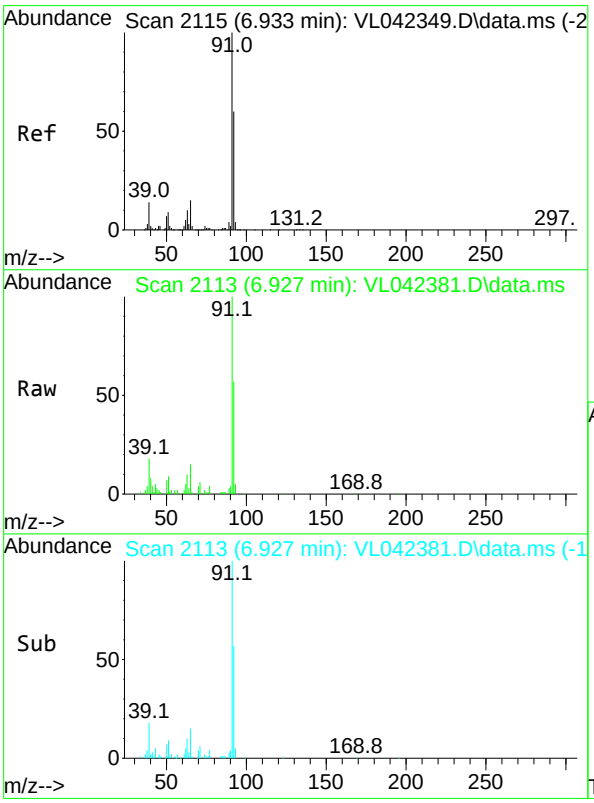
Ion	Ratio	Lower	Upper
57	100		
41	38.3	27.2	40.8
56	35.7	25.7	38.5



Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025DL

Manual Integrations
APPROVED

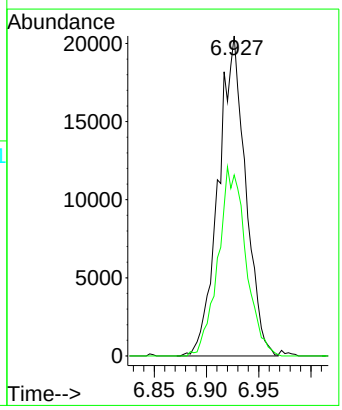
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

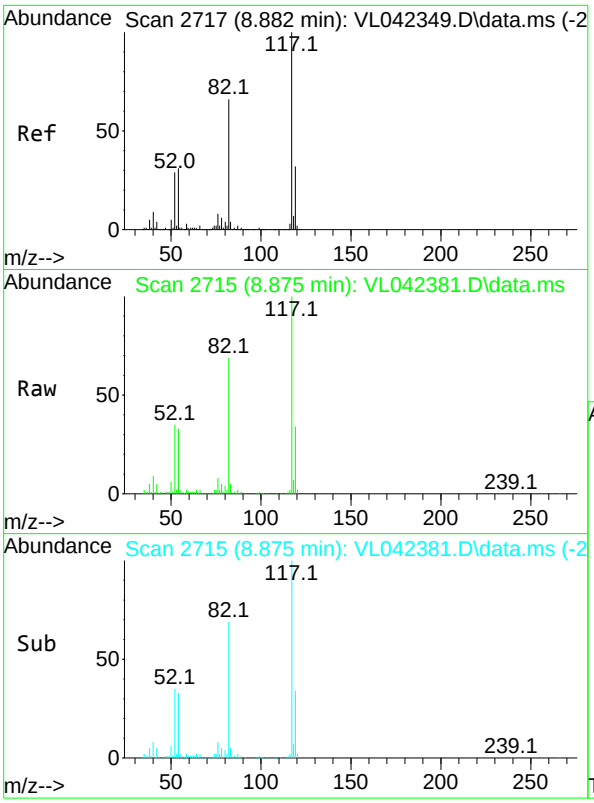


#53
Toluene
Concen: 1.163 ppbv m
RT: 6.927 min Scan# 2113
Delta R.T. -0.007 min
Lab File: VL042381.D
Acq: 18 Apr 2025 04:05

Tgt Ion: 91 Resp: 37165

Ion	Ratio	Lower	Upper
91	100		
92	60.0	48.2	72.4

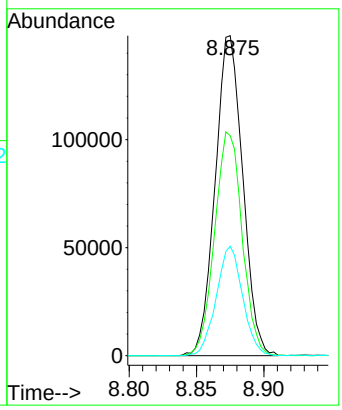




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 2
Delta R.T. -0.007 min
Lab File: VL042381.D
Acq: 18 Apr 2025 04:05

Tgt Ion:117 Resp: 21105

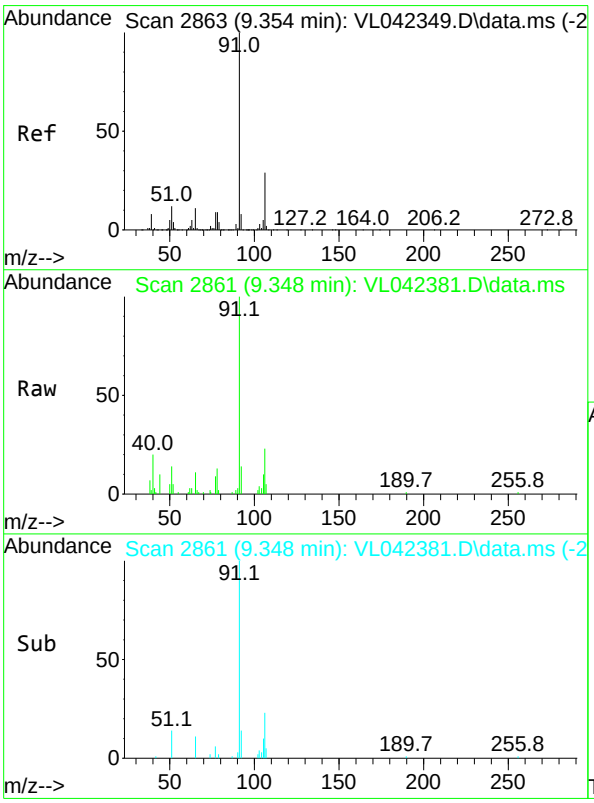
Ion	Ratio	Lower	Upper
117	100		
82	69.8	57.8	86.6
119	32.7	25.2	37.8



Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025DL

Manual Integrations
APPROVED

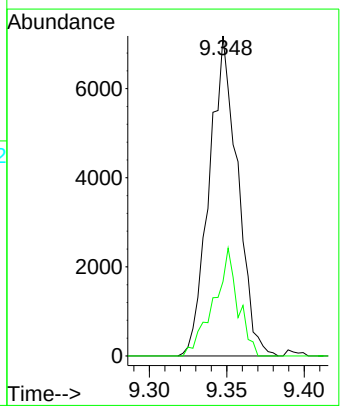
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

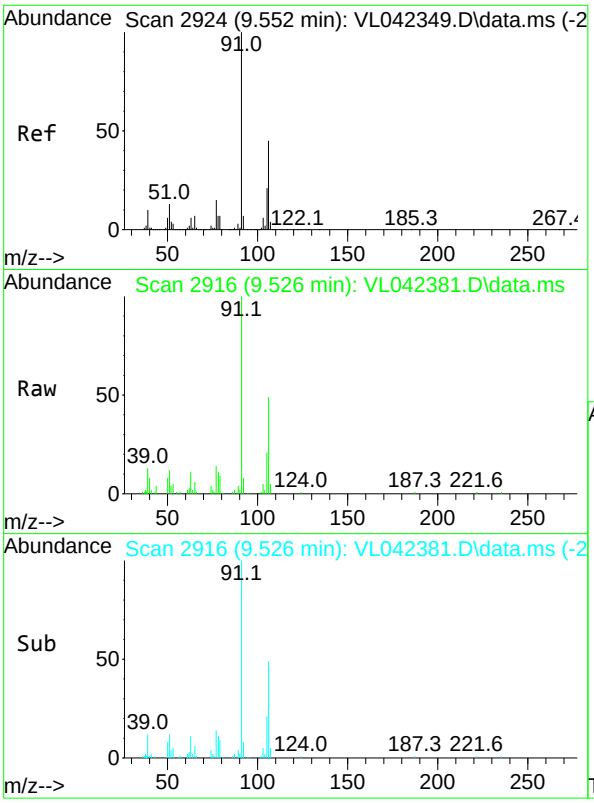


#58
Ethyl Benzene
Concen: 0.219 ppbv
RT: 9.348 min Scan# 2861
Delta R.T. -0.007 min
Lab File: VL042381.D
Acq: 18 Apr 2025 04:05

Tgt Ion: 91 Resp: 9155

Ion	Ratio	Lower	Upper
91	100		
106	23.3	23.0	34.4





#59
m/p-Xylene
Concen: 0.784 ppbv m
RT: 9.526 min Scan# 2
Delta R.T. -0.026 min
Lab File: VL042381.D
Acq: 18 Apr 2025 04:05

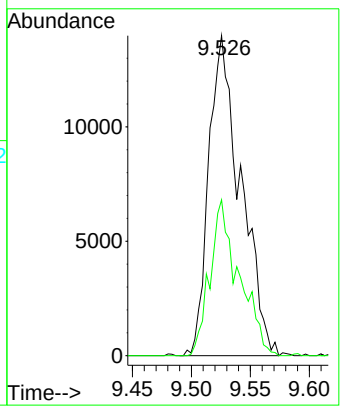
Tgt Ion: 91 Resp: 2641

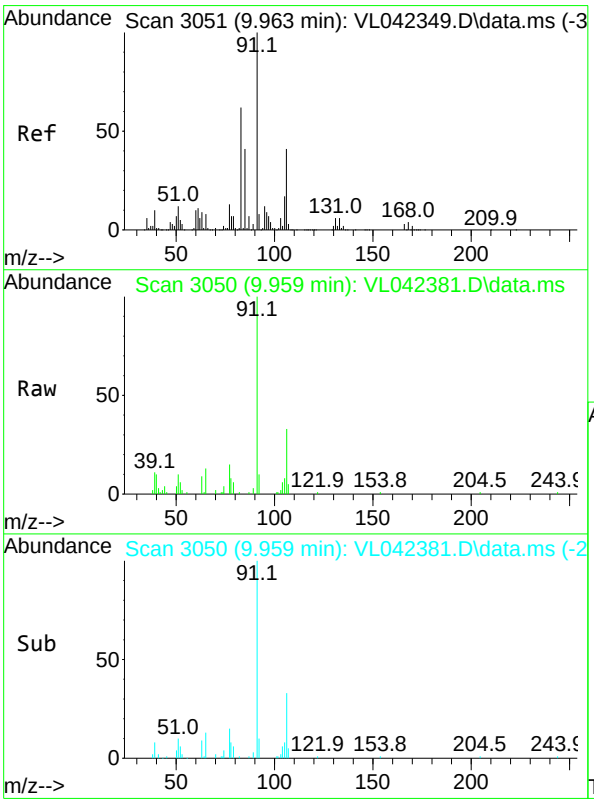
Ion	Ratio	Lower	Upper
91	100		
106	0.0	35.4	53.2

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025DL

Manual Integrations
APPROVED

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

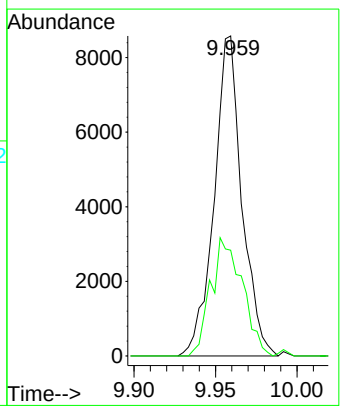


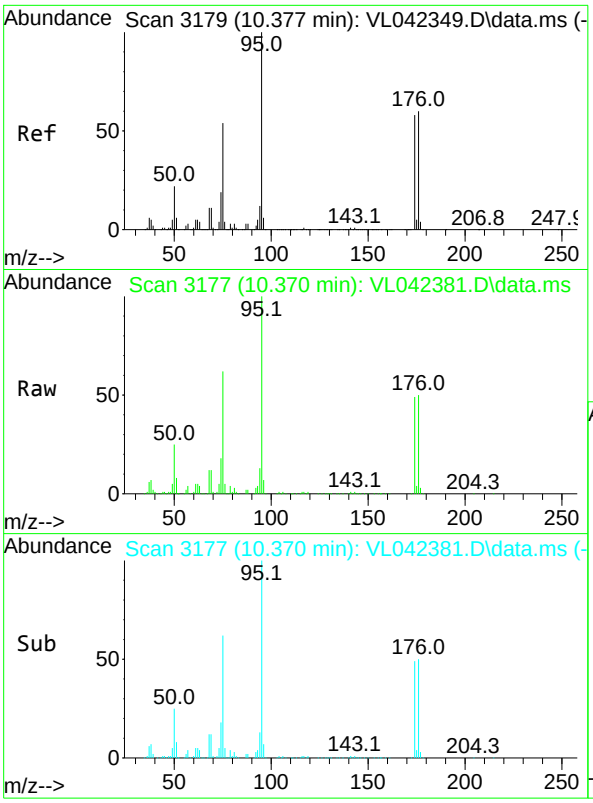


#60
o-Xylene
Concen: 0.299 ppbv
RT: 9.959 min Scan# 3050
Delta R.T. -0.003 min
Lab File: VL042381.D
Acq: 18 Apr 2025 04:05

Tgt Ion: 91 Resp: 10141

Ion	Ratio	Lower	Upper
91	100		
106	42.6	21.1	63.4

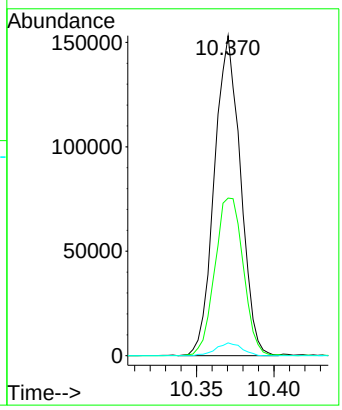




#68
1-Bromo-4-Fluorobenzene
Concen: 10.344 ppbv
RT: 10.370 min Scan# 3
Delta R.T. -0.007 min
Lab File: VL042381.D
Acq: 18 Apr 2025 04:05

Tgt Ion: 95 Resp: 17940

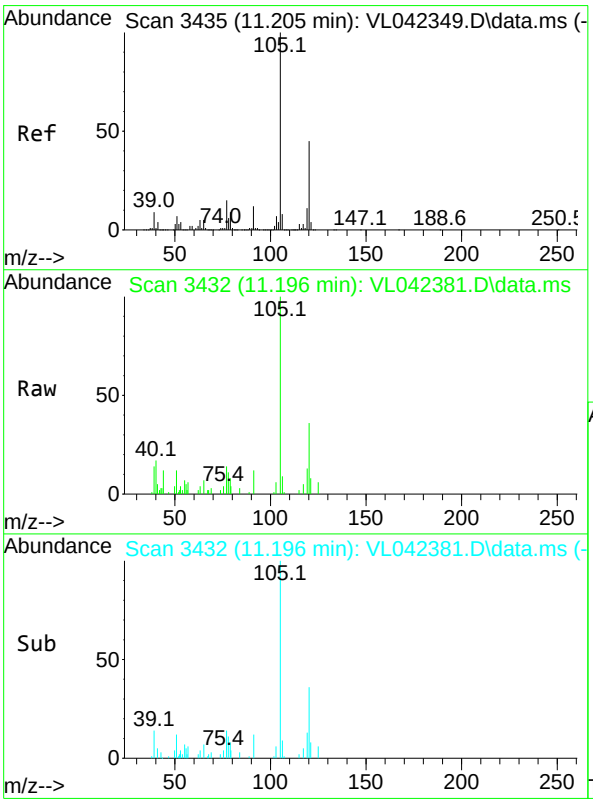
Ion	Ratio	Lower	Upper
95	100		
174	53.8	48.5	72.7
175	4.0	3.7	5.5



Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025DL

Manual Integrations
APPROVED

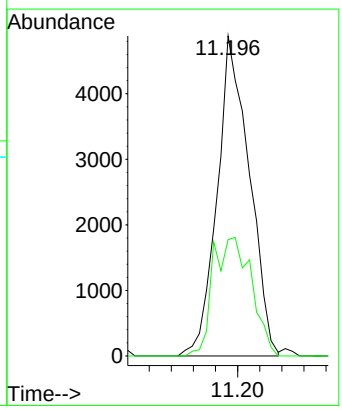
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

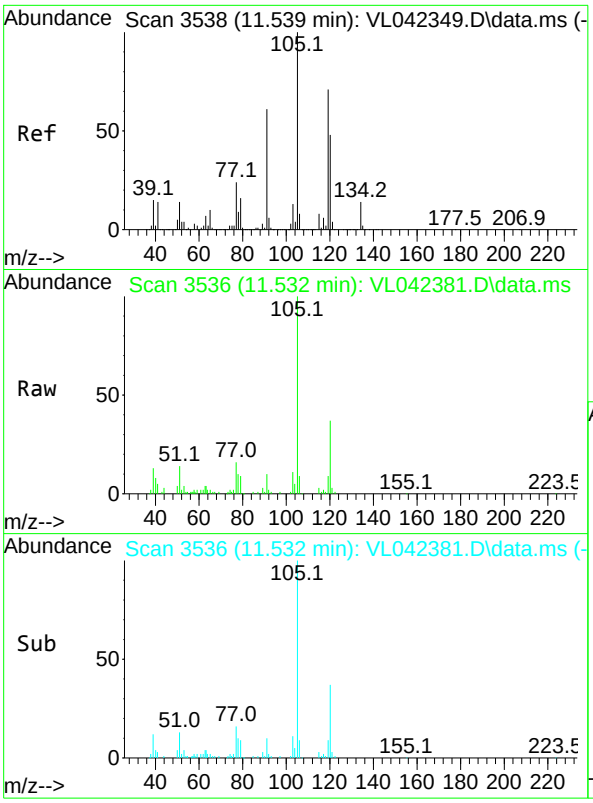


#73
1,3,5-Trimethylbenzene
Concen: 0.135 ppbv
RT: 11.196 min Scan# 3432
Delta R.T. -0.010 min
Lab File: VL042381.D
Acq: 18 Apr 2025 04:05

Tgt Ion:105 Resp: 4940

Ion	Ratio	Lower	Upper
105	100		
120	36.4	35.6	53.4

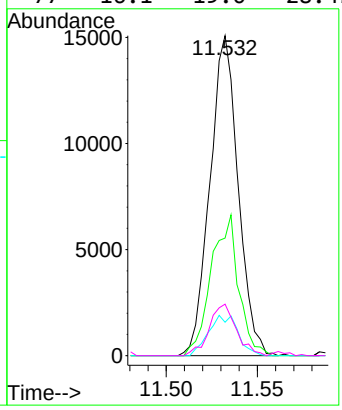




#74
1,2,4-Trimethylbenzene
Concen: 0.379 ppbv
RT: 11.532 min Scan# 3
Delta R.T. -0.007 min
Lab File: VL042381.D
Acq: 18 Apr 2025 04:05

Tgt Ion:105 Resp: 1621

Ion	Ratio	Lower	Upper
105	100		
120	36.7	38.1	57.1#
91	10.5	48.8	73.2#
77	16.1	19.0	28.4#



Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025DL

Manual Integrations
APPROVED

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

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

Report of Analysis

Client:	Woodard & Curran	Date Collected:	04/01/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	IA-B2-3-03312025DL2	SDG No.:	Q1726
Lab Sample ID:	Q1726-06DL2	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
VL042392.D	100		04/18/25 15:16	VL041825

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	21.0	104	UD	104	247	ug/m3
64-17-5	Ethanol	290	546	DQ	60.3	94.2	ug/m3
74-87-3	Chloromethane	9.80	20.2	UD	20.2	103	ug/m3
75-01-4	Vinyl Chloride	1.40	3.58	UD	3.58	7.67	ug/m3
74-83-9	Bromomethane	14.0	54.4	UD	54.4	194	ug/m3
75-00-3	Chloroethane	17.0	44.9	UD	44.9	132	ug/m3
109-99-9	Tetrahydrofuran	13.0	38.3	UDQ	38.3	147	ug/m3
75-69-4	Trichlorofluoromethane	16.0	89.9	UD	89.9	281	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	16.0	123	UD	123	383	ug/m3
76-14-2	Dichlorotetrafluoroethane	8.80	61.5	UD	61.5	349	ug/m3
593-60-2	Bromoethene	12.0	52.5	UD	52.5	219	ug/m3
75-65-0	tert-Butyl alcohol	19.0	57.6	UD	57.6	152	ug/m3
142-82-5	Heptane	11.0	45.1	UDQ	45.1	205	ug/m3
67-63-0	Isopropyl Alcohol	35.1	86.3	JD	17.0	123	ug/m3
75-35-4	1,1-Dichloroethene	14.0	55.5	UD	55.5	198	ug/m3
67-64-1	Acetone	520	1240	D	57.0	119	ug/m3
75-15-0	Carbon Disulfide	16.0	49.8	UD	49.8	156	ug/m3
1634-04-4	Methyl tert-Butyl Ether	12.0	43.3	UD	43.3	180	ug/m3
75-09-2	Methylene Chloride	19.0	66.0	UD	66.0	174	ug/m3
156-60-5	trans-1,2-Dichloroethene	19.0	75.3	UD	75.3	198	ug/m3
75-34-3	1,1-Dichloroethane	13.0	52.6	UD	52.6	202	ug/m3
110-82-7	Cyclohexane	22.0	75.7	UD	75.7	172	ug/m3
78-93-3	2-Butanone	12.0	35.4	UD	35.4	147	ug/m3
56-23-5	Carbon Tetrachloride	1.10	6.92	UD	6.92	18.9	ug/m3
156-59-2	cis-1,2-Dichloroethene	8.90	35.3	UD	35.3	198	ug/m3
67-66-3	Chloroform	8.30	40.5	UD	40.5	244	ug/m3
71-55-6	1,1,1-Trichloroethane	0.95	5.18	UD	5.18	16.4	ug/m3
540-84-1	2,2,4-Trimethylpentane	10.0	46.7	UD	46.7	234	ug/m3
71-43-2	Benzene	8.70	27.8	UD	27.8	160	ug/m3
107-06-2	1,2-Dichloroethane	9.10	36.8	UD	36.8	202	ug/m3
79-01-6	Trichloroethene	1.70	9.14	UD	9.14	16.1	ug/m3
78-87-5	1,2-Dichloropropane	11.0	50.8	UD	50.8	231	ug/m3
75-27-4	Bromodichloromethane	7.70	51.6	UD	51.6	335	ug/m3
108-10-1	4-Methyl-2-Pentanone	9.30	38.1	UD	38.1	205	ug/m3
108-88-3	Toluene	14.1	53.1	JD	41.5	188	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:	04/01/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	IA-B2-3-03312025DL2	SDG No.:	Q1726
Lab Sample ID:	Q1726-06DL2	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
VL042392.D	100		04/18/25 15:16	VL041825

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	6.00	27.2	UD	27.2	227	ug/m3
10061-01-5	cis-1,3-Dichloropropene	6.40	29.1	UD	29.1	227	ug/m3
79-00-5	1,1,2-Trichloroethane	7.10	38.7	UD	38.7	273	ug/m3
124-48-1	Dibromochloromethane	6.60	56.2	UD	56.2	426	ug/m3
106-93-4	1,2-Dibromoethane	7.20	55.3	UD	55.3	76.8	ug/m3
127-18-4	Tetrachloroethene	1.50	10.2	UD	10.2	20.3	ug/m3
108-90-7	Chlorobenzene	7.60	35.0	UD	35.0	230	ug/m3
100-41-4	Ethyl Benzene	12.0	52.1	UD	52.1	217	ug/m3
179601-23-1	m/p-Xylene	21.0	91.2	UD	91.2	434	ug/m3
95-47-6	o-Xylene	12.0	52.1	UD	52.1	217	ug/m3
100-42-5	Styrene	11.0	46.8	UD	46.8	213	ug/m3
75-25-2	Bromoform	5.70	58.9	UD	58.9	517	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	1.10	7.55	UD	7.55	20.6	ug/m3
95-49-8	2-Chlorotoluene	11.0	57.0	UD	57.0	259	ug/m3
108-67-8	1,3,5-Trimethylbenzene	11.0	54.1	UD	54.1	246	ug/m3
95-63-6	1,2,4-Trimethylbenzene	7.80	38.4	UD	38.4	246	ug/m3
541-73-1	1,3-Dichlorobenzene	8.00	48.1	UD	48.1	301	ug/m3
106-46-7	1,4-Dichlorobenzene	5.30	31.9	UD	31.9	301	ug/m3
95-50-1	1,2-Dichlorobenzene	7.50	45.1	UD	45.1	301	ug/m3
120-82-1	1,2,4-Trichlorobenzene	8.50	63.1	UD	63.1	371	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	8.50	90.7	UD	90.7	533	ug/m3
106-99-0	1,3-Butadiene	13.0	28.8	UD	28.8	111	ug/m3
91-20-3	Naphthalene	7.50	39.3	UD	39.3	52.4	ug/m3
622-96-8	4-Ethyltoluene	12.0	59.0	UD	59.0	246	ug/m3
110-54-3	Hexane	11.0	38.8	UD	38.8	176	ug/m3
107-05-1	Allyl Chloride	15.0	47.0	UD	47.0	157	ug/m3
123-91-1	1,4-Dioxane	21.0	75.7	UD	75.7	180	ug/m3
80-62-6	Methyl Methacrylate	8.60	35.2	UDQ	35.2	205	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	122000		2.791			
540-36-3	1,4-Difluorobenzene	380000		3.966			
3114-55-4	Chlorobenzene-d5	325000		8.885			

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

Report of Analysis

Client:	Woodard & Curran	Date Collected:	04/01/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	IA-B2-3-03312025DL2	SDG No.:	Q1726
Lab Sample ID:	Q1726-06DL2	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
VL042392.D	100		04/18/25 15:16	VL041825

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\VL041825\
Data File : VL042392.D
Acq On : 18 Apr 2025 15:16
Operator : SY/MD
Sample : Q1726-06DL2 100X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 18 23:00:07 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-B2-3-03312025DL2

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.791	49	121646	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.966	114	379829	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	325040	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.381	95	267080	9.999	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 100.000%			
Target Compounds						Qvalue
13) Ethanol	1.723	45	4246	2.866	ppbv	# 24
15) Acetone	1.839	43	102862	5.165	ppbv	98
19) Isopropyl Alcohol	1.888	45	3881	0.351	ppbv	# 1
53) Toluene	6.940	91	6938m	0.141	ppbv	

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

Quantitation Report (QT Reviewed)

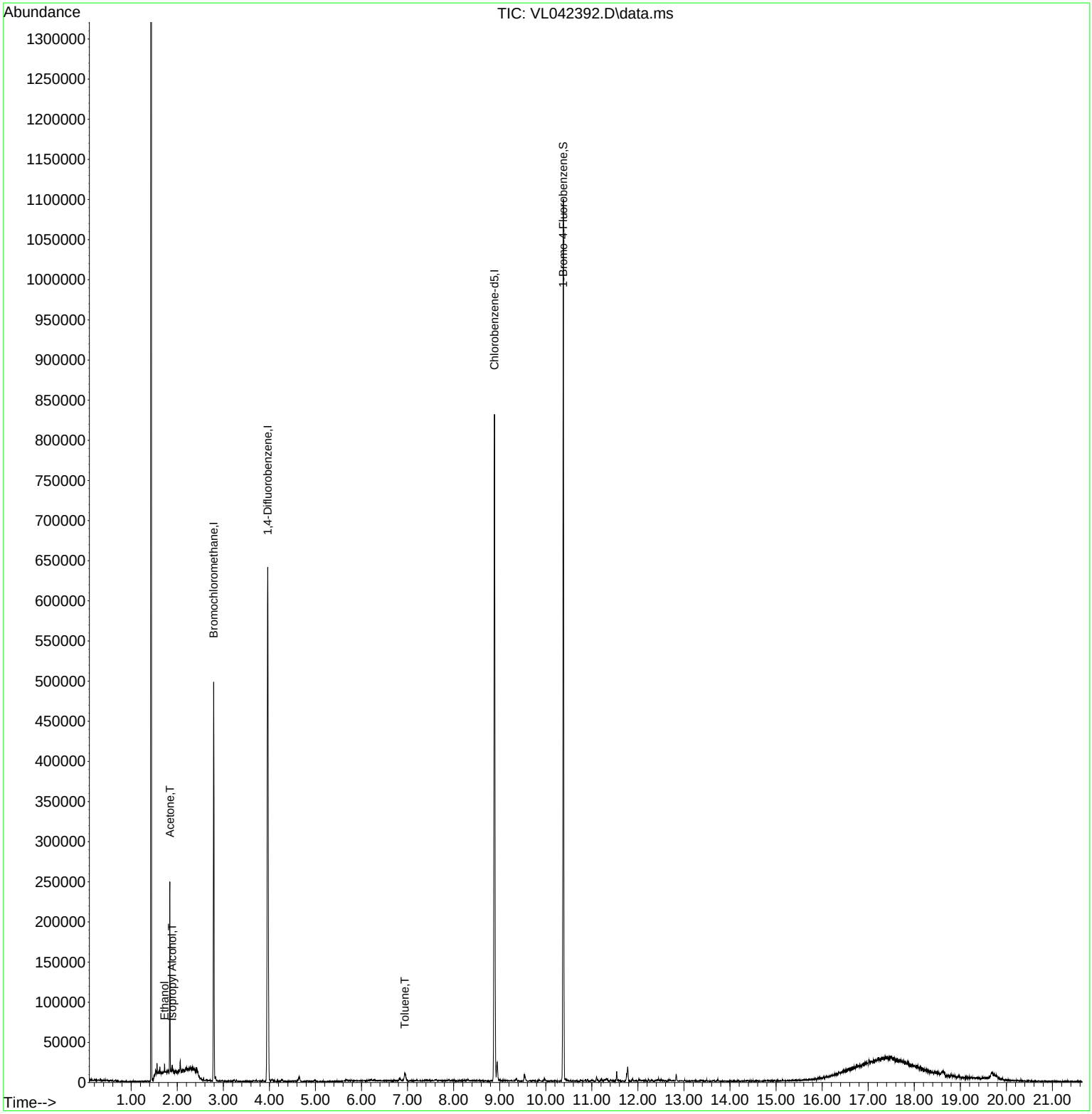
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041825\
Data File : VL042392.D
Acq On : 18 Apr 2025 15:16
Operator : SY/MD
Sample : Q1726-06DL2 100X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

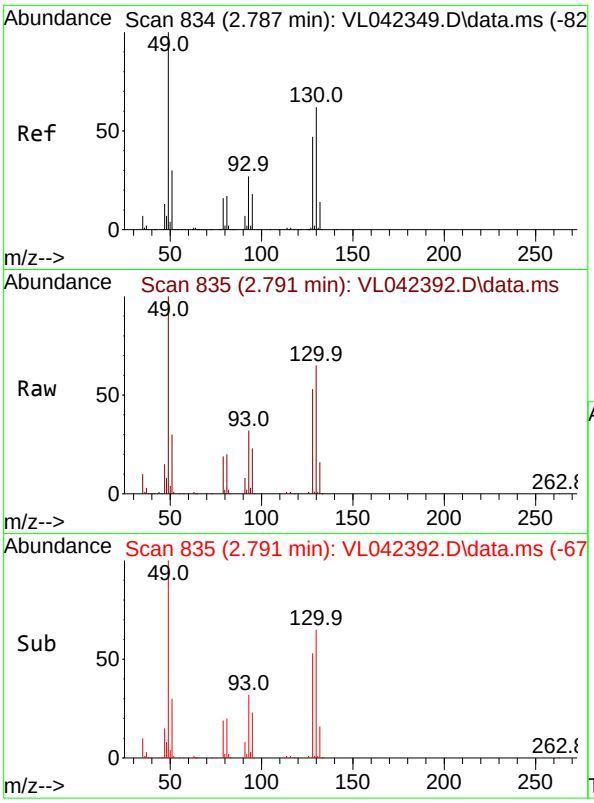
Quant Time: Apr 18 23:00:07 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025DL2

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025

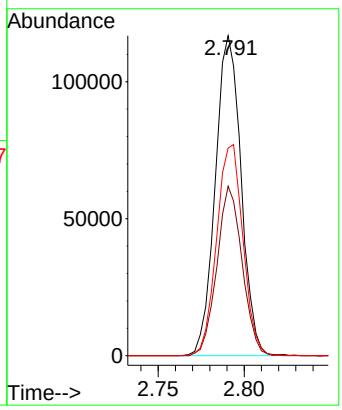




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.791 min Scan# 8
Delta R.T. 0.004 min
Lab File: VL042392.D
Acq: 18 Apr 2025 15:16

Tgt Ion: 49 Resp: 12164

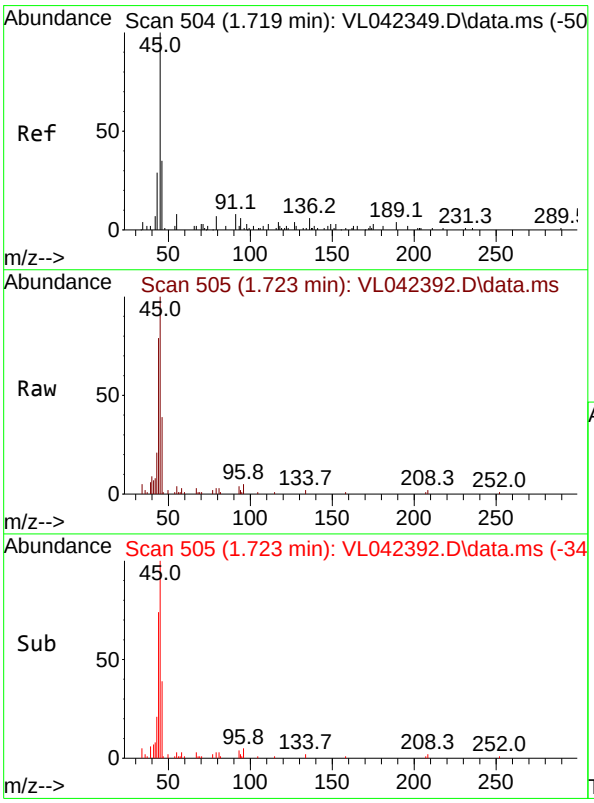
Ion	Ratio	Lower	Upper
49	100		
128	51.9	22.8	68.4
130	67.3	29.3	88.0



Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025DL2

Manual Integrations
APPROVED

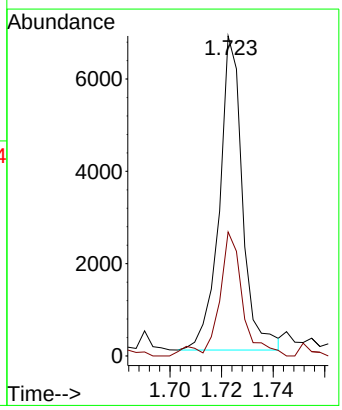
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025

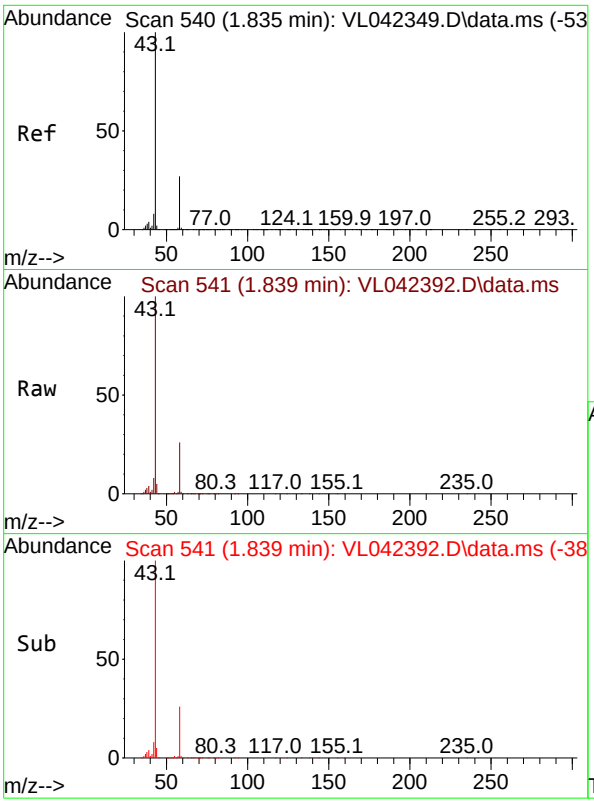


#13
Ethanol
Concen: 2.866 ppbv
RT: 1.723 min Scan# 505
Delta R.T. 0.004 min
Lab File: VL042392.D
Acq: 18 Apr 2025 15:16

Tgt Ion: 45 Resp: 4246

Ion	Ratio	Lower	Upper
45	100		
46	0.0	21.9	87.7#

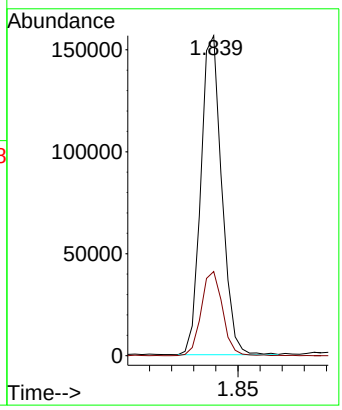




#15
Acetone
Concen: 5.165 ppbv
RT: 1.839 min Scan# 54
Delta R.T. 0.004 min
Lab File: VL042392.D
Acq: 18 Apr 2025 15:16

Tgt Ion: 43 Resp: 10286

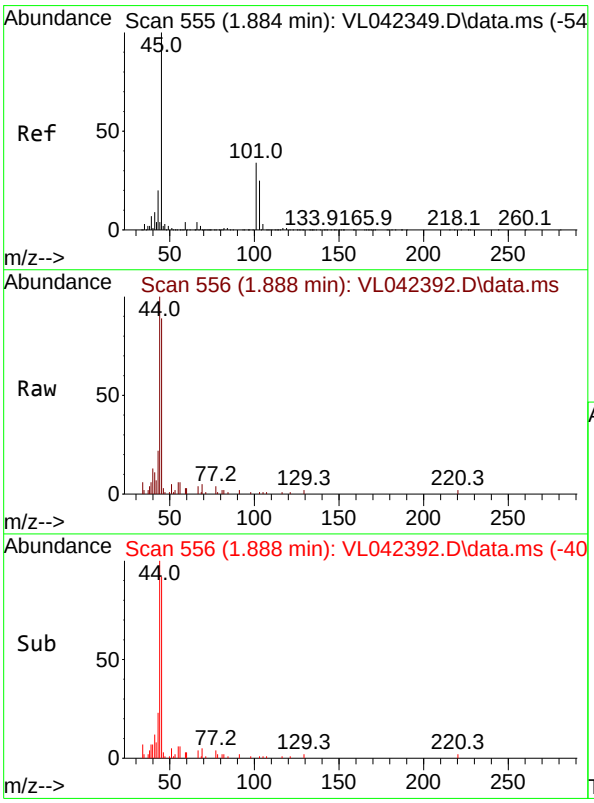
Ion	Ratio	Lower	Upper
43	100		
58	27.1	22.4	33.6



Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025DL2

Manual Integrations
APPROVED

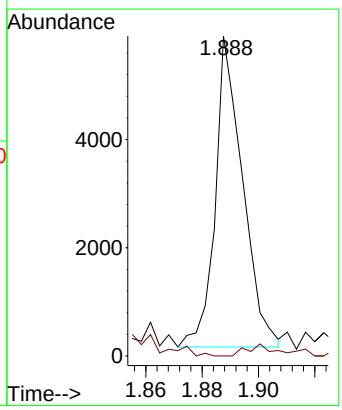
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025

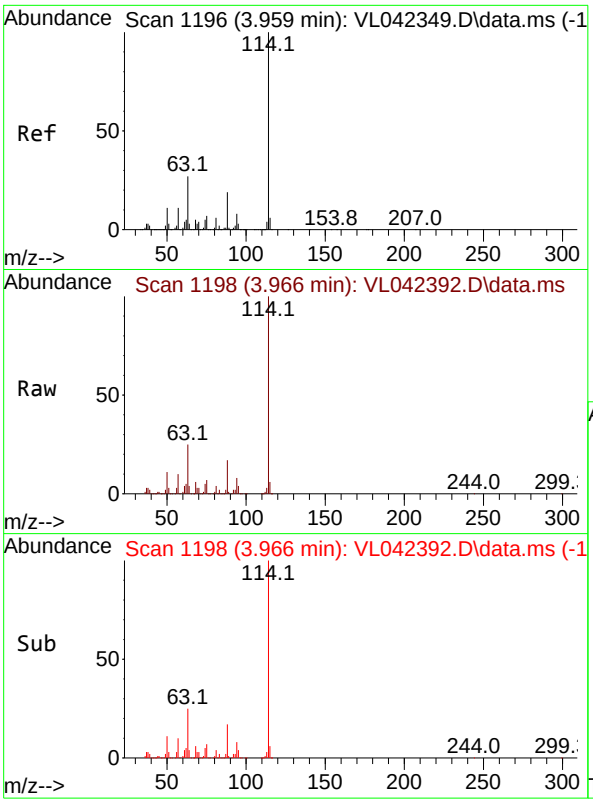


#19
Isopropyl Alcohol
Concen: 0.351 ppbv
RT: 1.888 min Scan# 556
Delta R.T. 0.004 min
Lab File: VL042392.D
Acq: 18 Apr 2025 15:16

Tgt Ion: 45 Resp: 3881

Ion	Ratio	Lower	Upper
45	100		
58	717.0	34.5	51.7#

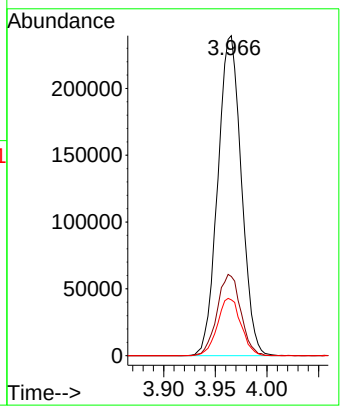




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.966 min Scan# 1
Delta R.T. 0.007 min
Lab File: VL042392.D
Acq: 18 Apr 2025 15:16

Tgt Ion:114 Resp: 37982

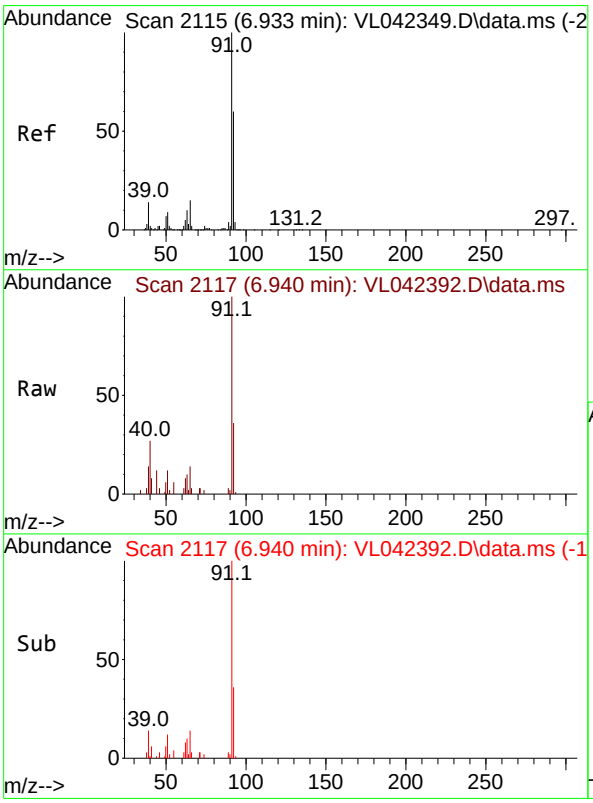
Ion	Ratio	Lower	Upper
114	100		
63	25.5	21.8	32.6
88	17.9	15.5	23.3



Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025DL2

Manual Integrations
APPROVED

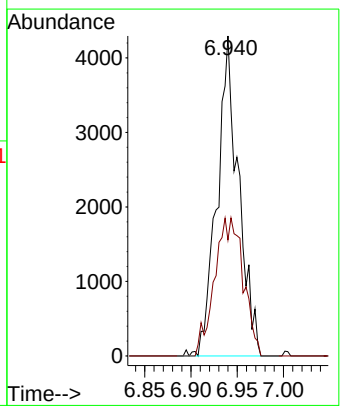
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025

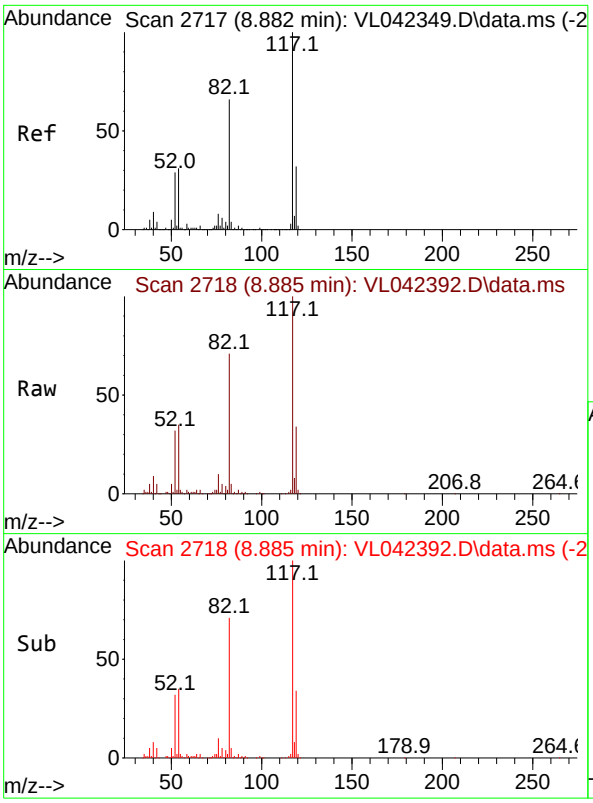


#53
Toluene
Concen: 0.141 ppbv m
RT: 6.940 min Scan# 2117
Delta R.T. 0.007 min
Lab File: VL042392.D
Acq: 18 Apr 2025 15:16

Tgt Ion: 91 Resp: 6938

Ion	Ratio	Lower	Upper
91	100		
92	57.6	48.2	72.4

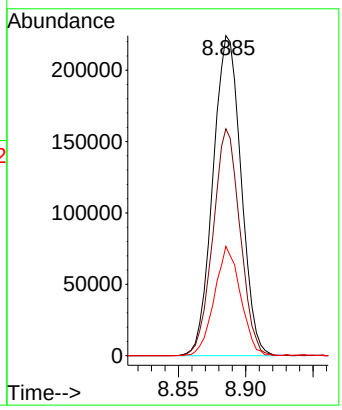




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.885 min Scan# 2
Delta R.T. 0.004 min
Lab File: VL042392.D
Acq: 18 Apr 2025 15:16

Tgt Ion:117 Resp: 32504

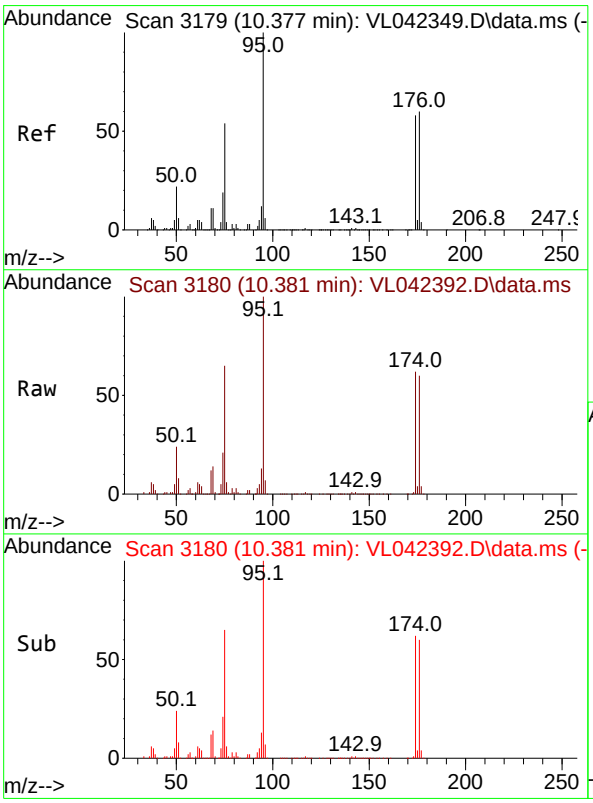
Ion	Ratio	Lower	Upper
117	100		
82	68.5	57.8	86.6
119	32.0	25.2	37.8



Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025DL2

Manual Integrations
APPROVED

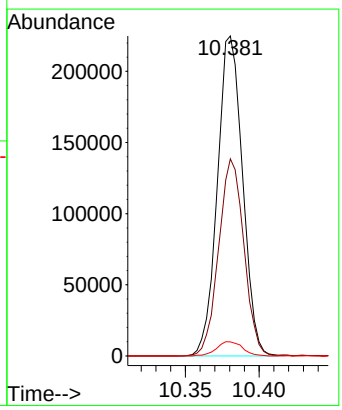
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025



#68
1-Bromo-4-Fluorobenzene
Concen: 9.999 ppbv
RT: 10.381 min Scan# 3180
Delta R.T. 0.004 min
Lab File: VL042392.D
Acq: 18 Apr 2025 15:16

Tgt Ion: 95 Resp: 267080

Ion	Ratio	Lower	Upper
95	100		
174	61.9	48.5	72.7
175	4.6	3.7	5.5



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

Report of Analysis

Client:	Woodard & Curran	Date Collected:	04/01/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	IA-B2-4-03312025	SDG No.:	Q1726
Lab Sample ID:	Q1726-07	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
VL042372.D	1		04/17/25 23:26	VL041725

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.51	2.52		1.04	2.47	ug/m3
64-17-5	Ethanol	320	603	EQ	0.60	0.94	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	0.27	1.52	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
593-60-2	Bromoethene	0.12	0.52	U	0.52	2.19	ug/m3
75-65-0	tert-Butyl alcohol	0.74	2.24		0.58	1.52	ug/m3
142-82-5	Heptane	4.20	17.2		0.45	2.05	ug/m3
67-63-0	Isopropyl Alcohol	34.3	84.3	E	0.17	1.23	ug/m3
75-35-4	1,1-Dichloroethene	0.14	0.56	U	0.56	1.98	ug/m3
67-64-1	Acetone	170	404	E	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	2.70	9.38		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	1.30	4.47		0.76	1.72	ug/m3
78-93-3	2-Butanone	1.20	3.54		0.35	1.47	ug/m3
56-23-5	Carbon Tetrachloride	0.090	0.57		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	0.11	0.54	J	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	10.6	49.5		0.47	2.34	ug/m3
71-43-2	Benzene	1.10	3.51		0.29	1.60	ug/m3
107-06-2	1,2-Dichloroethane	0.21	0.85	J	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	0.42	1.72	J	0.37	2.05	ug/m3
108-88-3	Toluene	26.5	99.9	E	0.41	1.88	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:	04/01/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	IA-B2-4-03312025	SDG No.:	Q1726
Lab Sample ID:	Q1726-07	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
VL042372.D	1		04/17/25 23:26	VL041725

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
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
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	0.13	0.88		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	5.10	22.1		0.52	2.17	ug/m3
179601-23-1	m/p-Xylene	17.5	76.0		0.91	4.34	ug/m3
95-47-6	o-Xylene	6.90	30.0		0.52	2.17	ug/m3
100-42-5	Styrene	0.37	1.58	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	1.40	7.25		0.57	2.59	ug/m3
108-67-8	1,3,5-Trimethylbenzene	3.30	16.2		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	0.080	0.48	U	0.48	3.01	ug/m3
106-46-7	1,4-Dichlorobenzene	0.36	2.16	J	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	0.58	3.04		0.42	0.52	ug/m3
622-96-8	4-Ethyltoluene	2.70	13.3		0.59	2.46	ug/m3
110-54-3	Hexane	3.80	13.4		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	110000		2.787			
540-36-3	1,4-Difluorobenzene	317000		3.956			
3114-55-4	Chlorobenzene-d5	275000		8.879			
TENTITIVE IDENTIFIED COMPOUNDS							

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

Report of Analysis

Client:	Woodard & Curran	Date Collected:	04/01/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	IA-B2-4-03312025	SDG No.:	Q1726
Lab Sample ID:	Q1726-07	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
VL042372.D	1		04/17/25 23:26	VL041725

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
75-45-6	Chlorodifluoromethane	0.22		J		1.47	ppbv
115-07-1	Propene	2.90		J		1.49	ppbv
000106-97-8	Butane	8.90		J		1.62	ppbv
000071-23-8	1-Propanol	5.00		J		2.27	ppbv
000107-83-5	Pentane, 2-methyl-	4.10		J		2.47	ppbv
000591-76-4	Hexane, 2-methyl-	5.40		J		4.05	ppbv
000589-34-4	Hexane, 3-methyl-	5.80		J		4.27	ppbv
000108-87-2	Cyclohexane, methyl-	5.00		J		5.66	ppbv
000565-75-3	Pentane, 2,3,4-trimethyl-	7.10		J		6.82	ppbv
035852-47-2	4-Methylpentyl pentanoate	4.70		J		7.60	ppbv
000111-65-9	Octane	5.10		J		8.30	ppbv
98-82-8	Isopropylbenzene	0.50		J		10.5	ppbv
103-65-1	n-propylbenzene	1.70		J		11.0	ppbv
135-98-8	sec-Butylbenzene	0.12		J		11.8	ppbv
99-87-6	p-Isopropyltoluene	0.55		J		11.9	ppbv
104-51-8	n-Butylbenzene	0.54		J		12.3	ppbv
013450-73-2	11H-Dibenzo[b,e][1,4]diazepin-11-o	4.30		J		13.4	ppbv
91-57-6	Naphthalene,2-methyl-	0.21		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 : VL042372.D
Acq On : 17 Apr 2025 23:26
Operator : SY/MD
Sample : Q1726-07
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 18 02:46:43 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-B2-4-03312025

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	110448	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.956	114	317011	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.879	117	275197	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.374	95	229240	10.137	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 101.400%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.496	85	9928	0.509	ppbv		92
3) Chlorodifluoromethane	1.473	51	4119m	0.222	ppbv		
4) Chloromethane	1.531	50	4664	0.604	ppbv		95
9) Propene	1.486	41	24901m	2.943	ppbv		
10) Heptane	4.978	43	98760	4.154	ppbv		99
11) Trichlorofluoromethane	1.875	101	5086	0.274	ppbv		100
13) Ethanol	1.719	45	434403	322.963	ppbv		75
15) Acetone	1.832	43	3068967	169.738	ppbv	#	45
17) tert-Butyl alcohol	2.043	59	16507m	0.737	ppbv		
19) Isopropyl Alcohol	1.884	45	344907	34.339	ppbv	#	33
20) Methylene Chloride	2.062	84	19413	2.742	ppbv		97
26) Hexane	2.823	57	68262	3.784	ppbv	#	38
29) Chloroform	2.846	83	2771m	0.109	ppbv		
30) Cyclohexane	3.855	84	18963	1.300	ppbv		93
34) 2-Butanone	2.557	43	29844	1.190	ppbv		96
35) Carbon Tetrachloride	3.758	117	2428m	0.085	ppbv		
36) Benzene	3.651	78	38575	1.128	ppbv		95
37) 1,2-Dichloroethane	3.218	62	4357	0.212	ppbv	#	93
44) 2,2,4-Trimethylpentane	4.639	57	623779	10.563	ppbv		95
50) 4-Methyl-2-Pentanone	5.762	43	17333m	0.416	ppbv		
52) Tetrachloroethene	8.222	164	1704m	0.129	ppbv		
53) Toluene	6.933	91	1085281	26.450	ppbv		99
58) Ethyl Benzene	9.351	91	277437	5.088	ppbv		100
59) m/p-Xylene	9.529	91	770401	17.539	ppbv		99
60) o-Xylene	9.963	91	305451	6.906	ppbv		98
61) Styrene	9.872	104	7737	0.366	ppbv		91
62) Isopropylbenzene	10.536	105	32373	0.499	ppbv		99
64) n-propylbenzene	10.986	120	27039	1.657	ppbv		87
67) sec-Butylbenzene	11.766	105	10233	0.123	ppbv	#	60
69) p-Isopropyltoluene	11.924	119	39473	0.547	ppbv		95
70) n-Butylbenzene	12.280	91	40596m	0.540	ppbv		
71) 2-Chlorotoluene	10.902	91	70326	1.381	ppbv		100
72) 4-Ethyltoluene	11.122	105	146733	2.714	ppbv	#	56
73) 1,3,5-Trimethylbenzene	11.203	105	156177	3.271	ppbv		98
74) 1,2,4-Trimethylbenzene	11.536	105	502862	9.018	ppbv	#	64
76) 1,4-Dichlorobenzene	11.669	146	10548	0.362	ppbv	#	80
79) Naphthalene	13.513	128	38387	0.576	ppbv		96
80) Naphthalene,2-methyl-	14.459	142	7927	0.209	ppbv	#	89

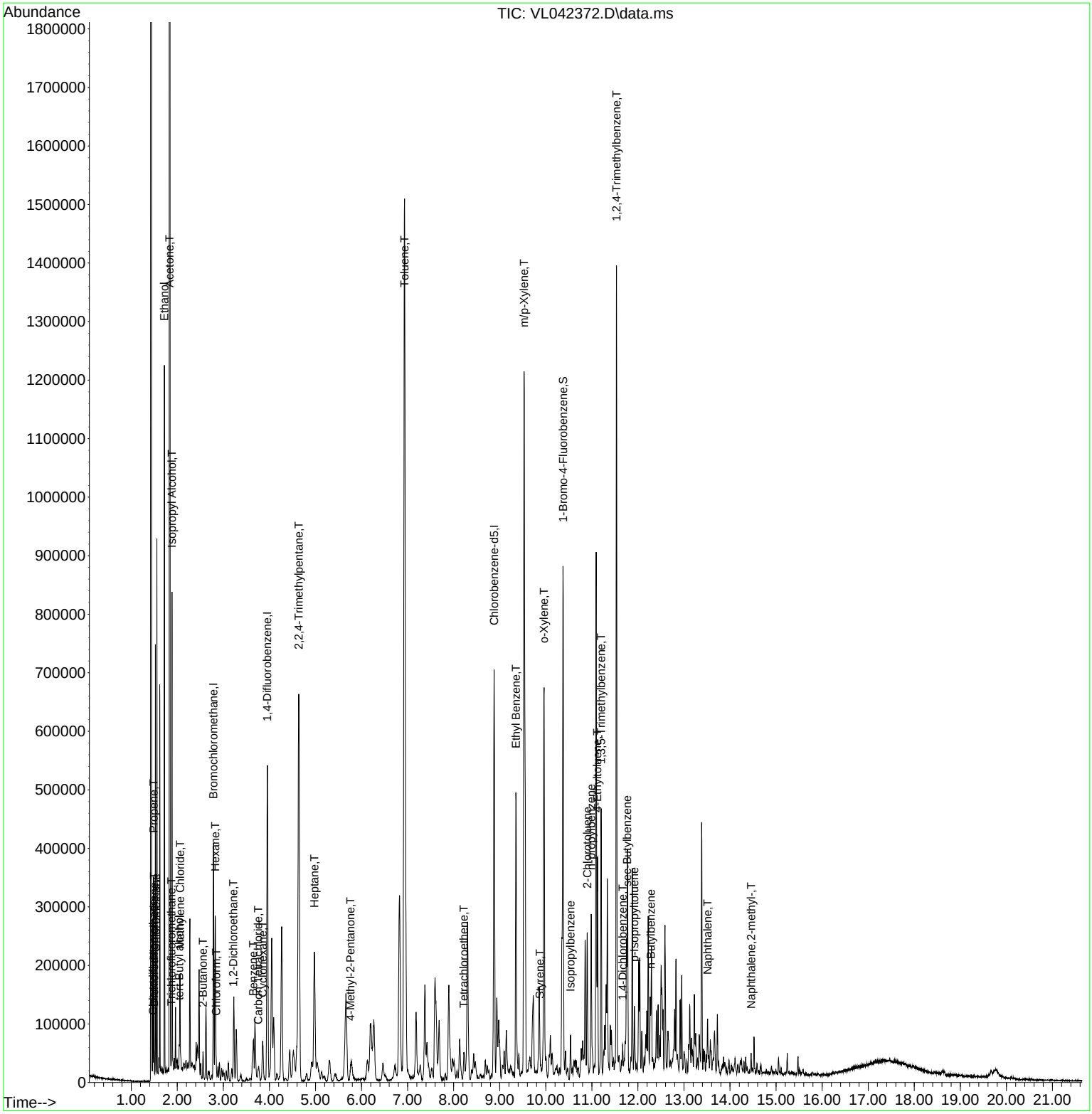
(#) = qualifier out of range (m) = manual integration (+) = signals summed

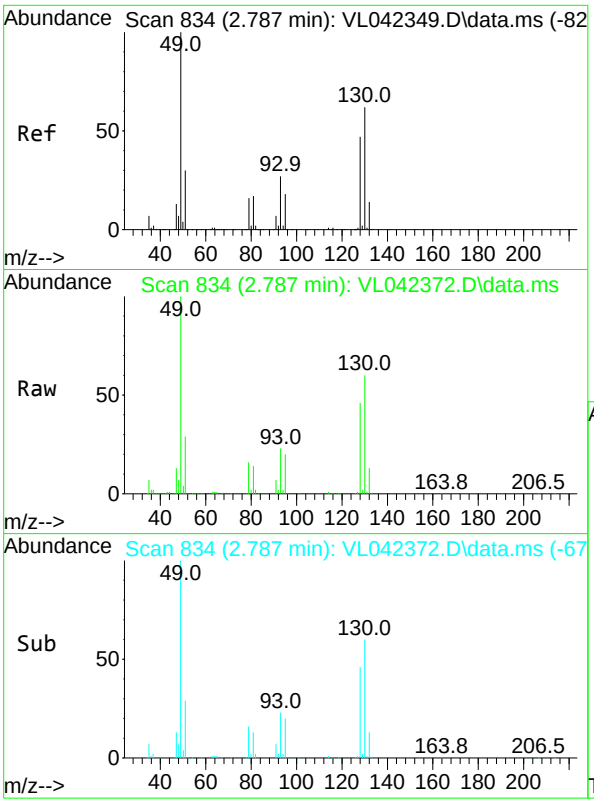
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042372.D
Acq On : 17 Apr 2025 23:26
Operator : SY/MD
Sample : Q1726-07
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 18 02:46:43 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-B2-4-03312025

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

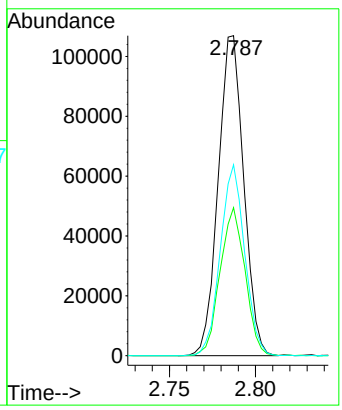




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 8
Delta R.T. 0.000 min
Lab File: VL042372.D
Acq: 17 Apr 2025 23:26

Tgt Ion: 49 Resp: 11044

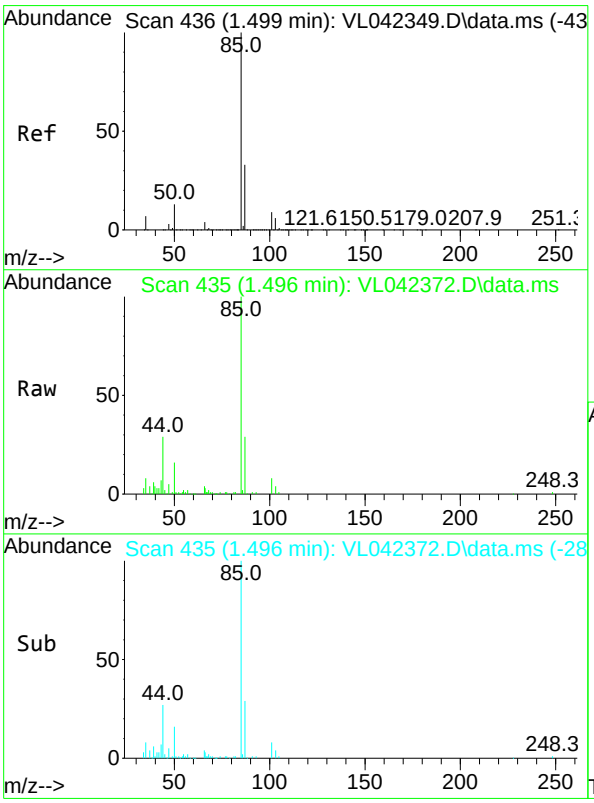
Ion	Ratio	Lower	Upper
49	100		
128	45.3	22.8	68.4
130	57.0	29.3	88.0



Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025

Manual Integrations
APPROVED

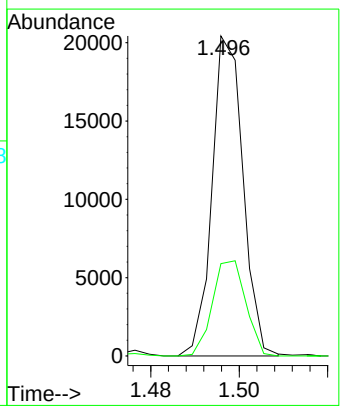
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

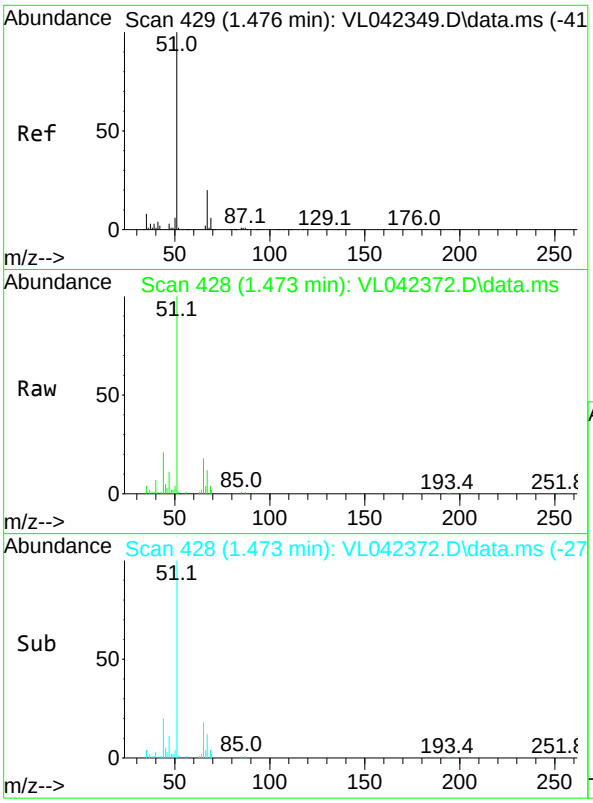


#2
Dichlorodifluoromethane
Concen: 0.509 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.003 min
Lab File: VL042372.D
Acq: 17 Apr 2025 23:26

Tgt Ion: 85 Resp: 9928

Ion	Ratio	Lower	Upper
85	100		
87	28.9	26.6	39.8

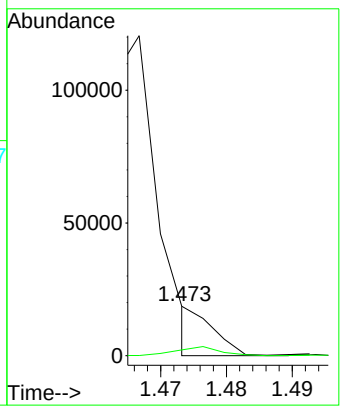




#3
Chlorodifluoromethane
Concen: 0.222 ppbv m
RT: 1.473 min Scan# 4
Delta R.T. -0.003 min
Lab File: VL042372.D
Acq: 17 Apr 2025 23:26

Tgt Ion: 51 Resp: 411

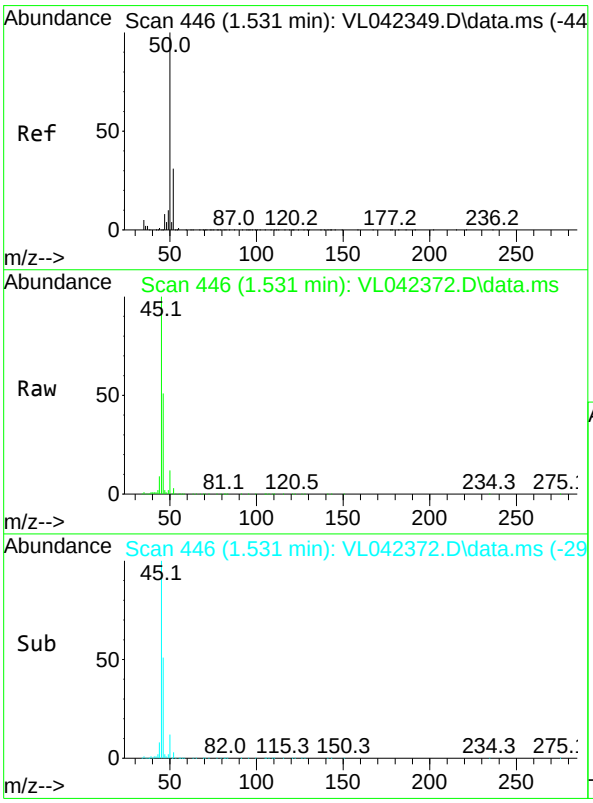
Ion	Ratio	Lower	Upper
51	100		
67	44.6	16.2	24.4



Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025

Manual Integrations
APPROVED

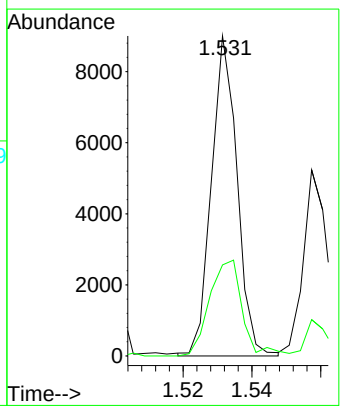
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

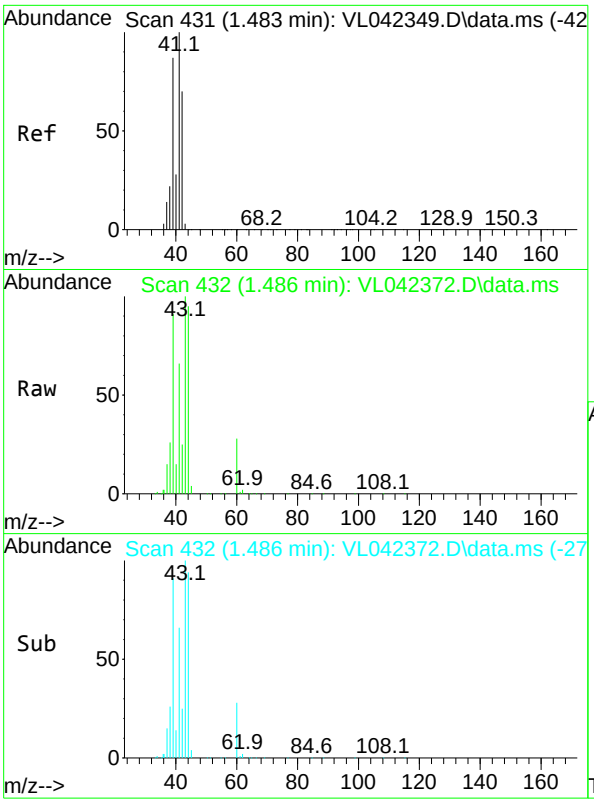


#4
Chloromethane
Concen: 0.604 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL042372.D
Acq: 17 Apr 2025 23:26

Tgt Ion: 50 Resp: 4664

Ion	Ratio	Lower	Upper
50	100		
52	27.9	24.7	37.1

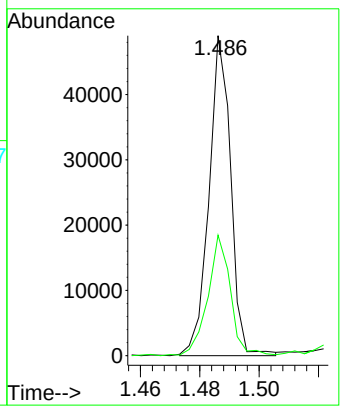




#9
Propene
Concen: 2.943 ppbv m
RT: 1.486 min Scan# 4
Delta R.T. 0.004 min
Lab File: VL042372.D
Acq: 17 Apr 2025 23:26

Tgt Ion: 41 Resp: 2490

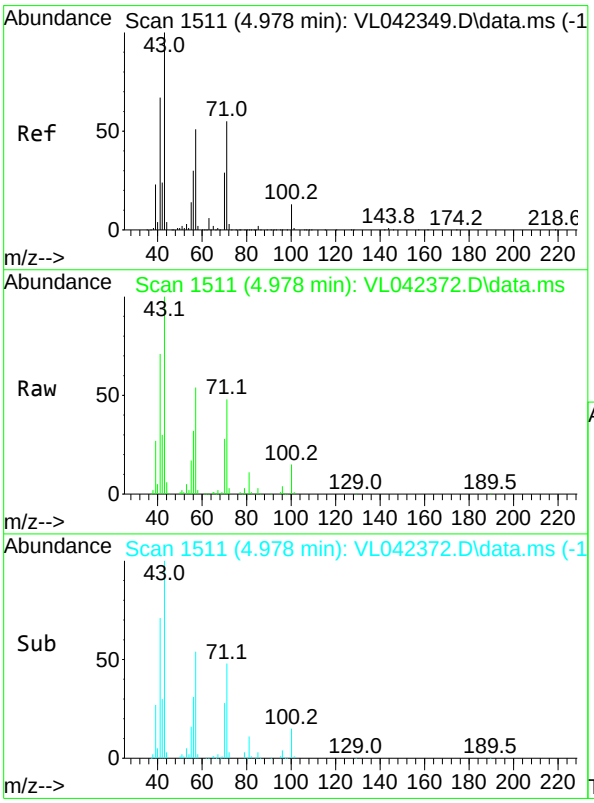
Ion	Ratio	Lower	Upper
41	100		
42	260.6	56.2	84.4



Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025

Manual Integrations
APPROVED

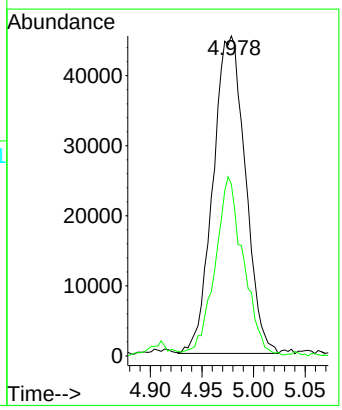
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

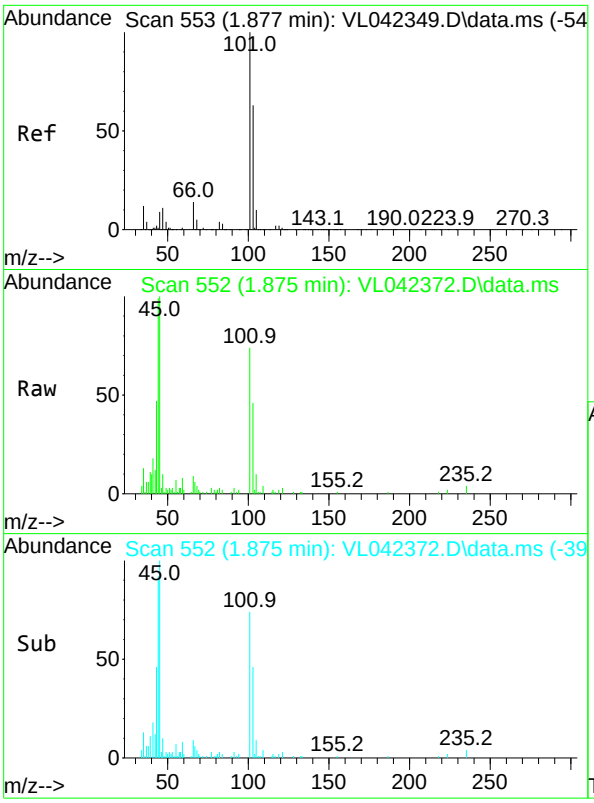


#10
Heptane
Concen: 4.154 ppbv
RT: 4.978 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VL042372.D
Acq: 17 Apr 2025 23:26

Tgt Ion: 43 Resp: 98760

Ion	Ratio	Lower	Upper
43	100		
57	50.3	39.9	59.9

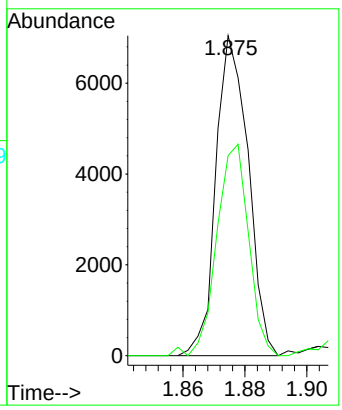




#11
Trichlorofluoromethane
Concen: 0.274 ppbv
RT: 1.875 min Scan# 5
Delta R.T. -0.003 min
Lab File: VL042372.D
Acq: 17 Apr 2025 23:26

Tgt Ion:101 Resp: 508

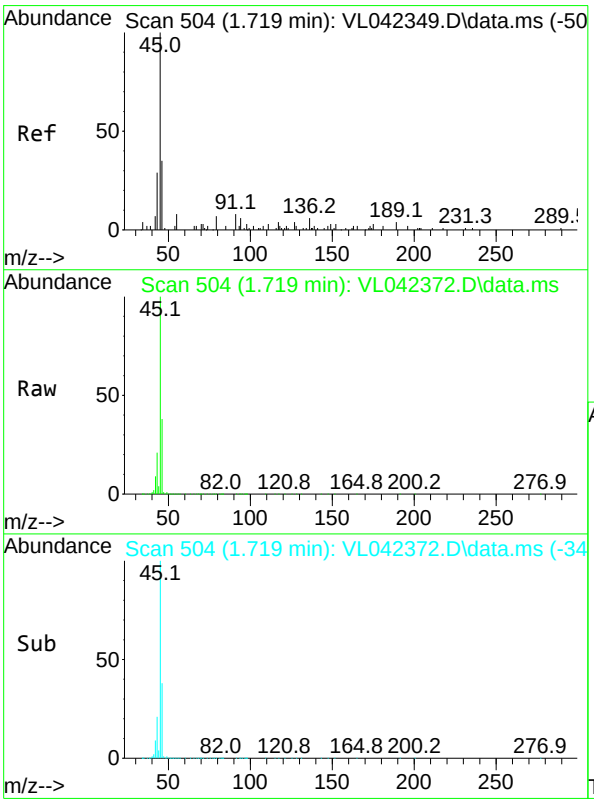
Ion	Ratio	Lower	Upper
101	100		
103	62.5	50.1	75.1



Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025

Manual Integrations
APPROVED

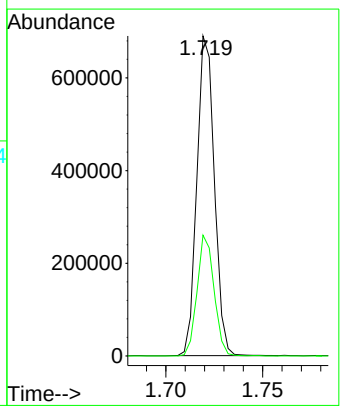
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

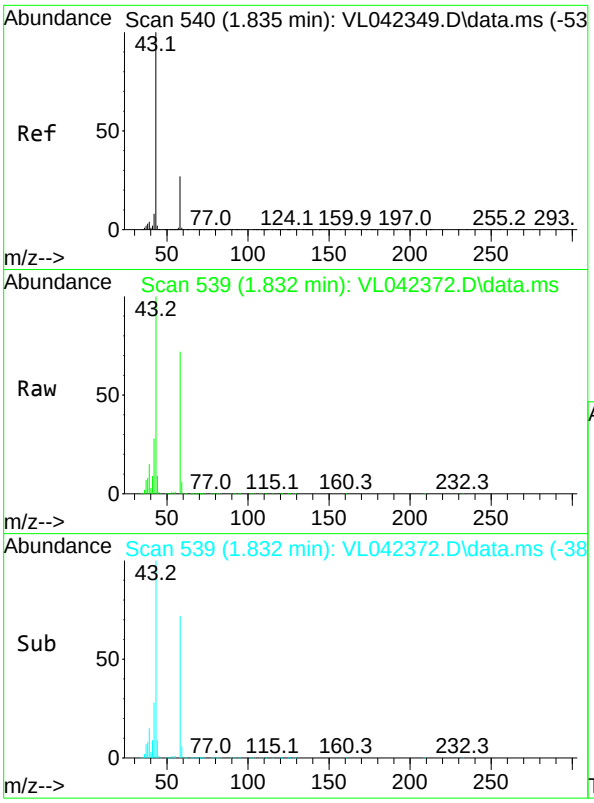


#13
Ethanol
Concen: 322.963 ppbv
RT: 1.719 min Scan# 504
Delta R.T. 0.000 min
Lab File: VL042372.D
Acq: 17 Apr 2025 23:26

Tgt Ion: 45 Resp: 434403

Ion	Ratio	Lower	Upper
45	100		
46	36.8	21.9	87.7





#15
Acetone
Concen: 169.738 ppbv
RT: 1.832 min Scan# 5
Delta R.T. -0.003 min
Lab File: VL042372.D
Acq: 17 Apr 2025 23:26

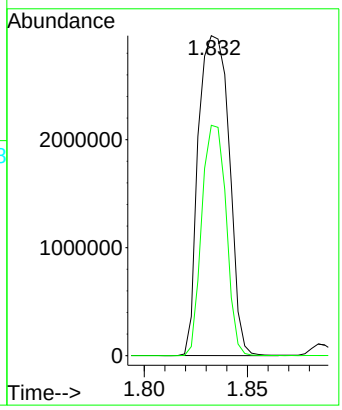
Tgt Ion: 43 Resp: 306896

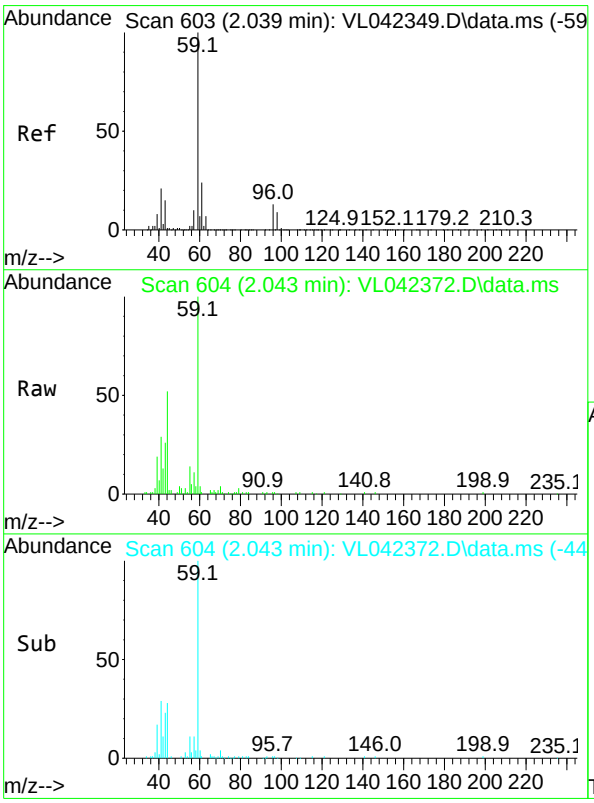
Ion	Ratio	Lower	Upper
43	100		
58	56.8	22.4	33.6#

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025

Manual Integrations
APPROVED

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

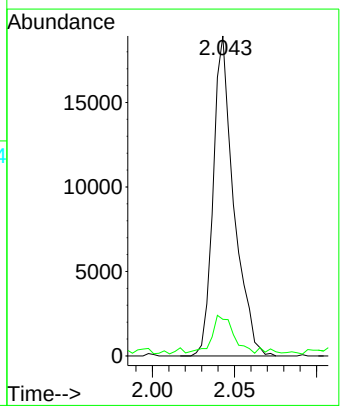


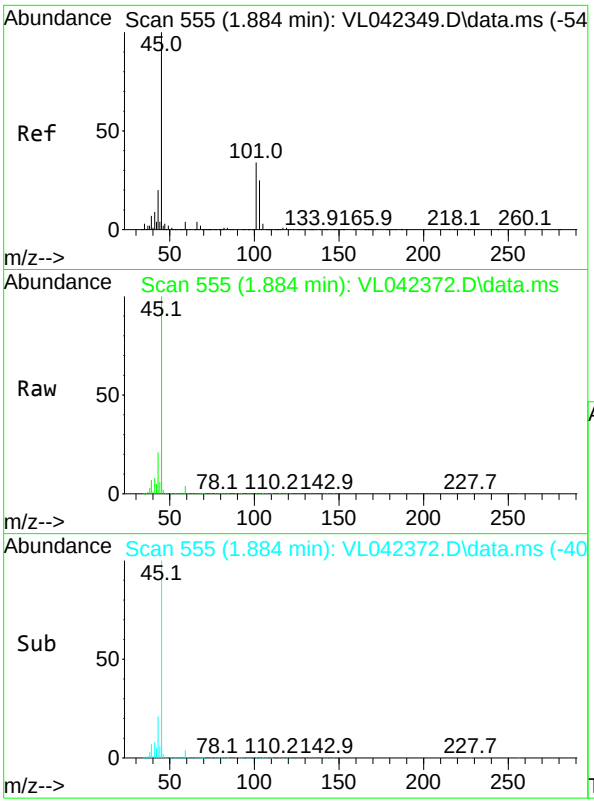


#17
tert-Butyl alcohol
Concen: 0.737 ppbv m
RT: 2.043 min Scan# 604
Delta R.T. 0.004 min
Lab File: VL042372.D
Acq: 17 Apr 2025 23:26

Tgt Ion: 59 Resp: 16507

Ion	Ratio	Lower	Upper
59	100		
57	27.4	8.7	13.1#





#19
Isopropyl Alcohol
Concen: 34.339 ppbv
RT: 1.884 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL042372.D
Acq: 17 Apr 2025 23:26

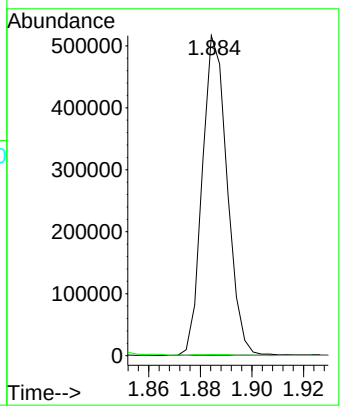
Tgt Ion: 45 Resp: 34490

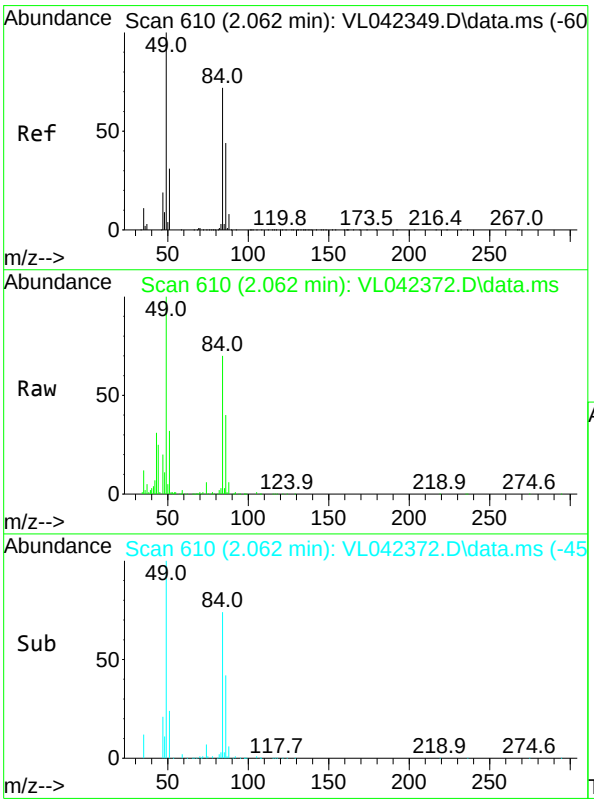
Ion	Ratio	Lower	Upper
45	100		
58	0.0	34.5	51.7#

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025

Manual Integrations
APPROVED

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

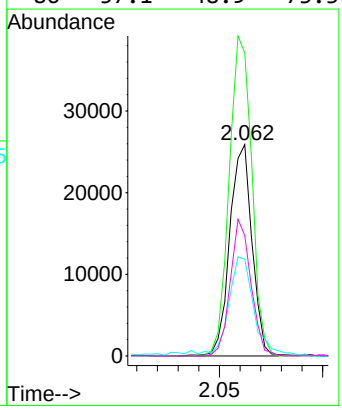


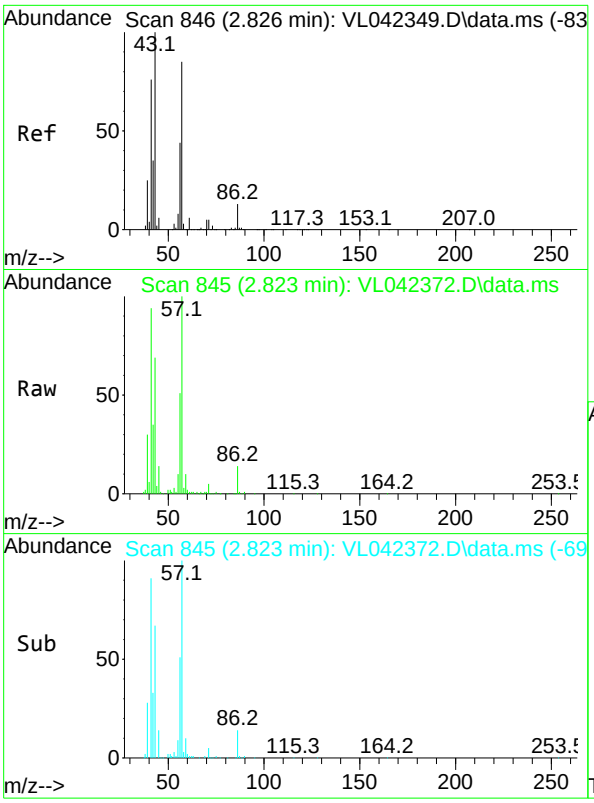


#20
Methylene Chloride
Concen: 2.742 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.000 min
Lab File: VL042372.D
Acq: 17 Apr 2025 23:26

Tgt Ion: 84 Resp: 19413

Ion	Ratio	Lower	Upper
84	100		
49	143.4	111.6	167.4
51	44.2	35.1	52.7
86	57.1	48.9	73.3

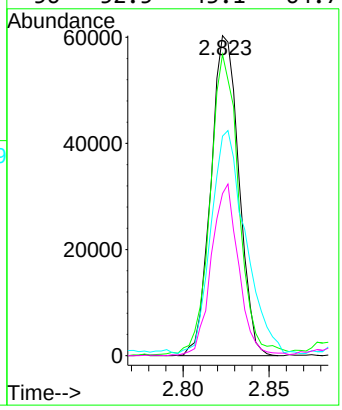




#26
Hexane
Concen: 3.784 ppbv
RT: 2.823 min Scan# 84
Delta R.T. -0.003 min
Lab File: VL042372.D
Acq: 17 Apr 2025 23:26

Tgt Ion: 57 Resp: 6826

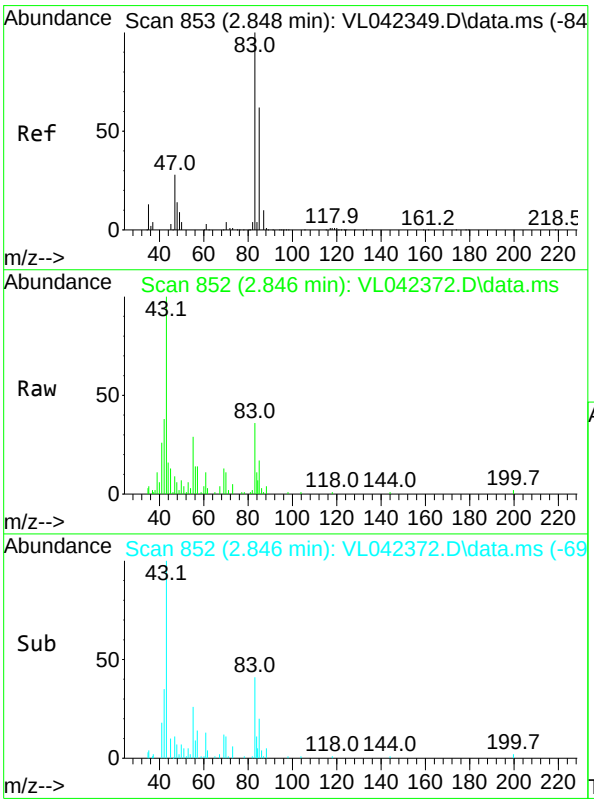
Ion	Ratio	Lower	Upper
57	100		
41	96.5	77.9	116.9
43	86.0	208.4	312.6#
56	52.5	43.1	64.7



Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025

Manual Integrations
APPROVED

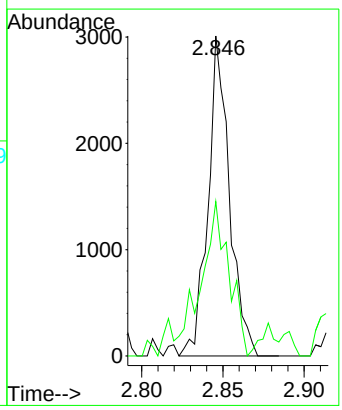
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

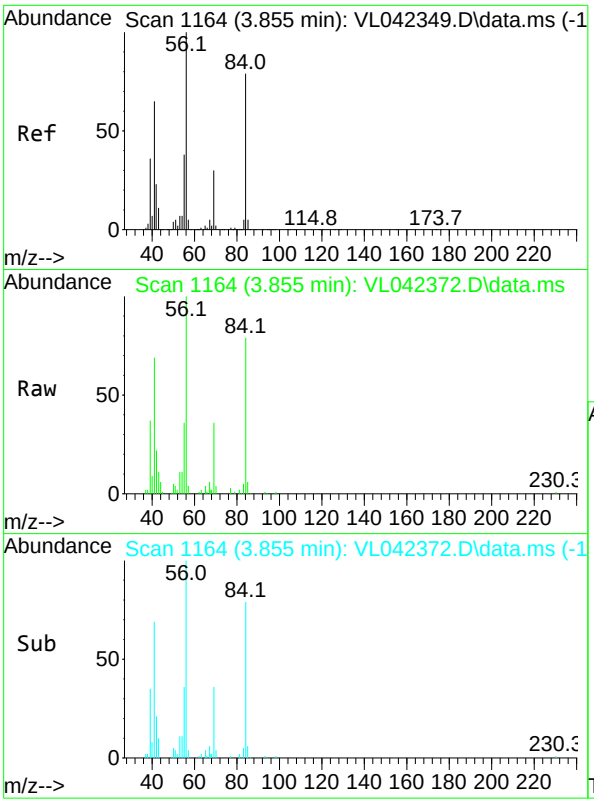


#29
Chloroform
Concen: 0.109 ppbv m
RT: 2.846 min Scan# 852
Delta R.T. -0.003 min
Lab File: VL042372.D
Acq: 17 Apr 2025 23:26

Tgt Ion: 83 Resp: 2771

Ion	Ratio	Lower	Upper
83	100		
85	48.2	50.0	75.0#

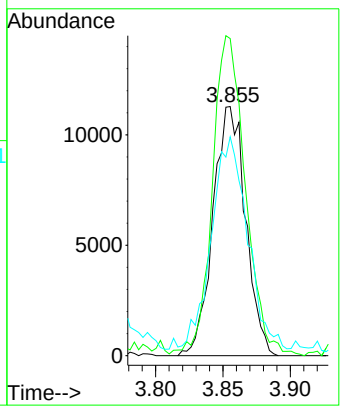




#30
Cyclohexane
Concen: 1.300 ppbv
RT: 3.855 min Scan# 11
Delta R.T. 0.000 min
Lab File: VL042372.D
Acq: 17 Apr 2025 23:26

Tgt Ion: 84 Resp: 1896

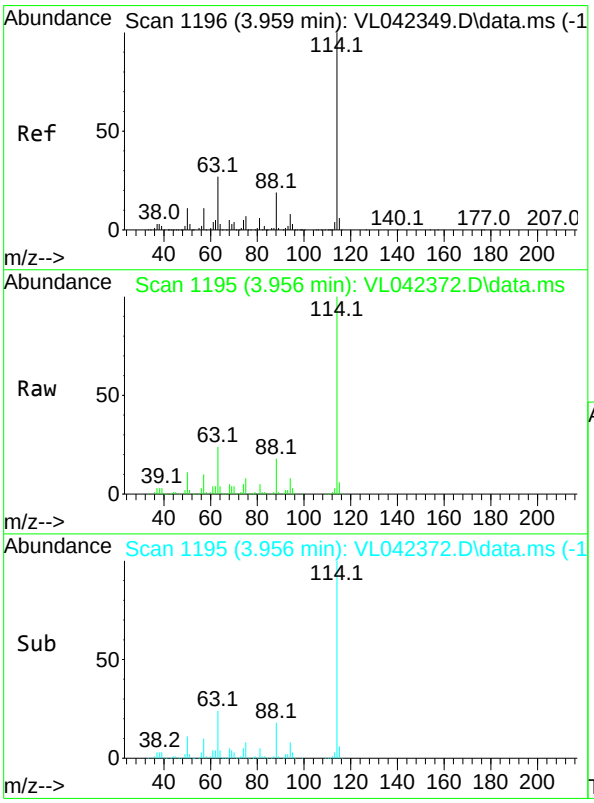
Ion	Ratio	Lower	Upper
84	100		
56	131.9	101.0	151.4
41	93.9	67.4	101.0



Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025

Manual Integrations
APPROVED

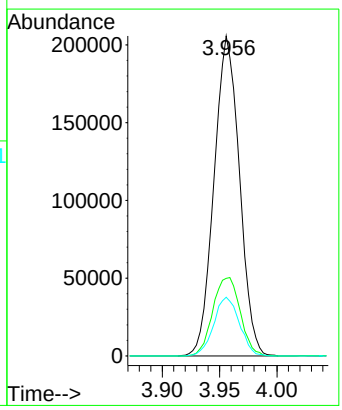
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

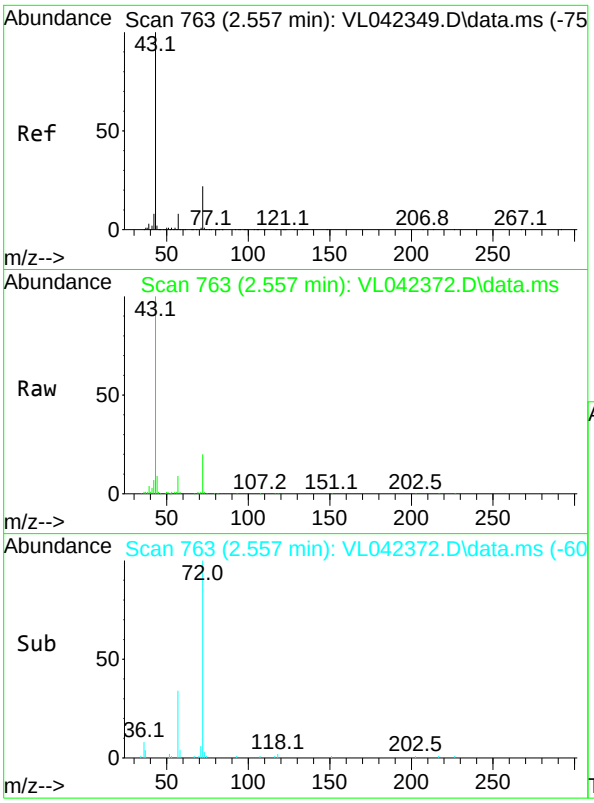


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.956 min Scan# 1195
Delta R.T. -0.003 min
Lab File: VL042372.D
Acq: 17 Apr 2025 23:26

Tgt Ion:114 Resp: 317011

Ion	Ratio	Lower	Upper
114	100		
63	26.5	21.8	32.6
88	18.5	15.5	23.3

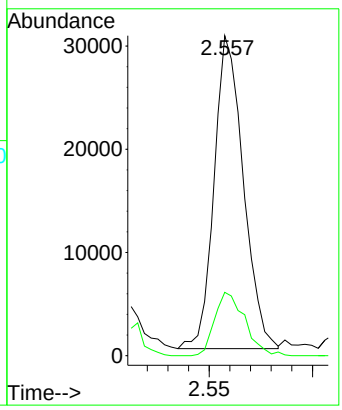




#34
2-Butanone
Concen: 1.190 ppbv
RT: 2.557 min Scan# 7
Delta R.T. 0.000 min
Lab File: VL042372.D
Acq: 17 Apr 2025 23:26

Tgt Ion: 43 Resp: 2984

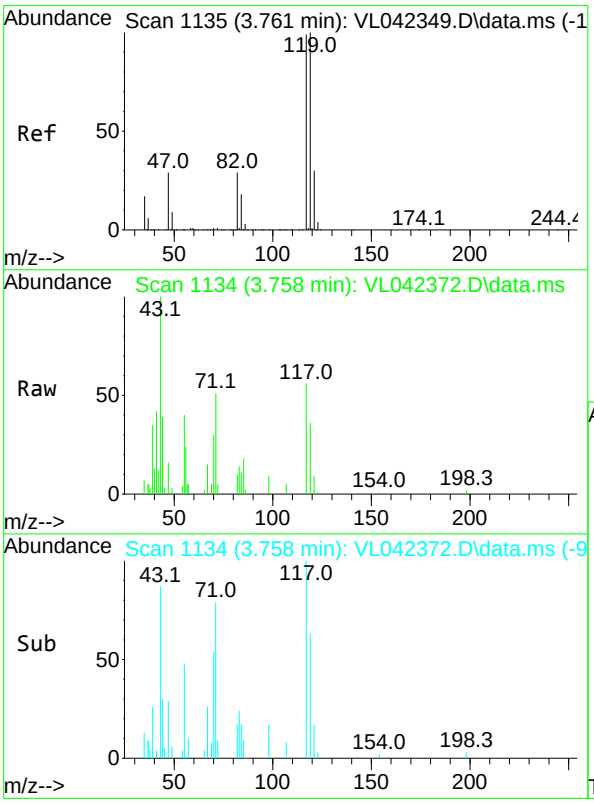
Ion	Ratio	Lower	Upper
43	100		
72	20.9	18.2	27.2



Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025

Manual Integrations
APPROVED

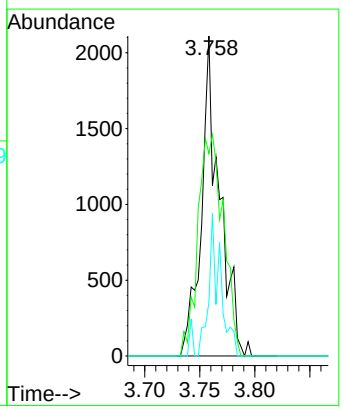
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

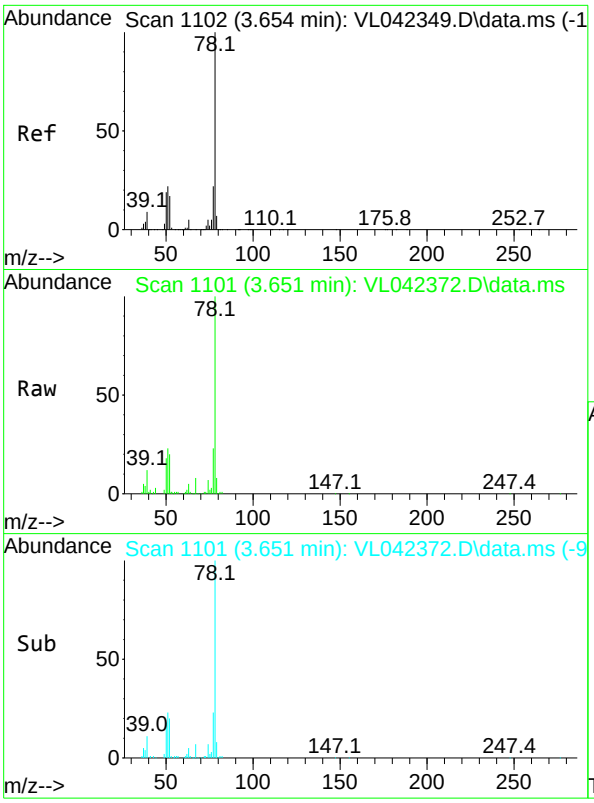


#35
Carbon Tetrachloride
Concen: 0.085 ppbv m
RT: 3.758 min Scan# 1134
Delta R.T. -0.003 min
Lab File: VL042372.D
Acq: 17 Apr 2025 23:26

Tgt Ion:117 Resp: 2428

Ion	Ratio	Lower	Upper
117	100		
119	63.2	80.5	120.7#
121	16.9	24.2	36.2#





#36
Benzene
Concen: 1.128 ppbv
RT: 3.651 min Scan# 1
Delta R.T. -0.003 min
Lab File: VL042372.D
Acq: 17 Apr 2025 23:26

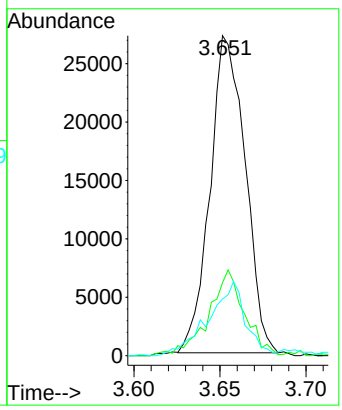
Tgt Ion: 78 Resp: 3857

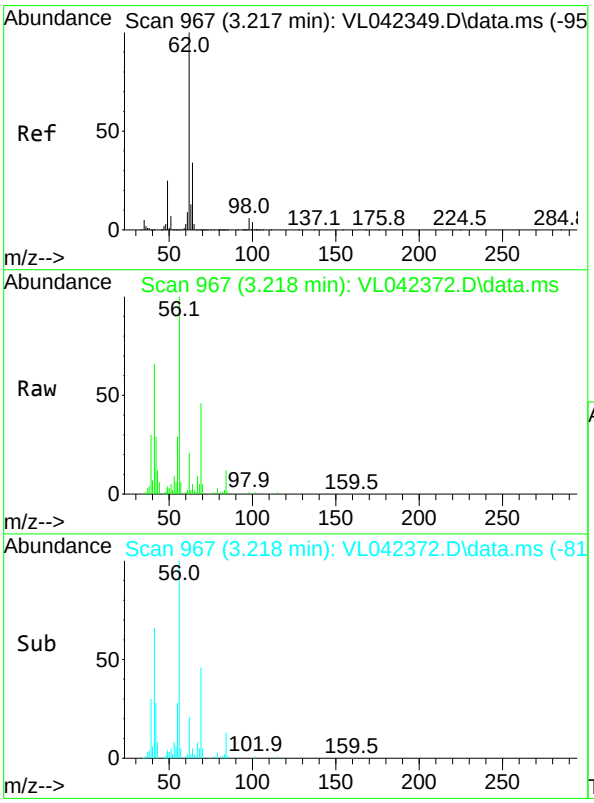
Ion	Ratio	Lower	Upper
78	100		
77	22.7	17.4	26.0
50	15.8	15.5	23.3

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025

Manual Integrations
APPROVED

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

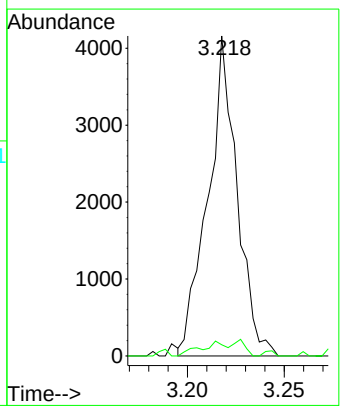


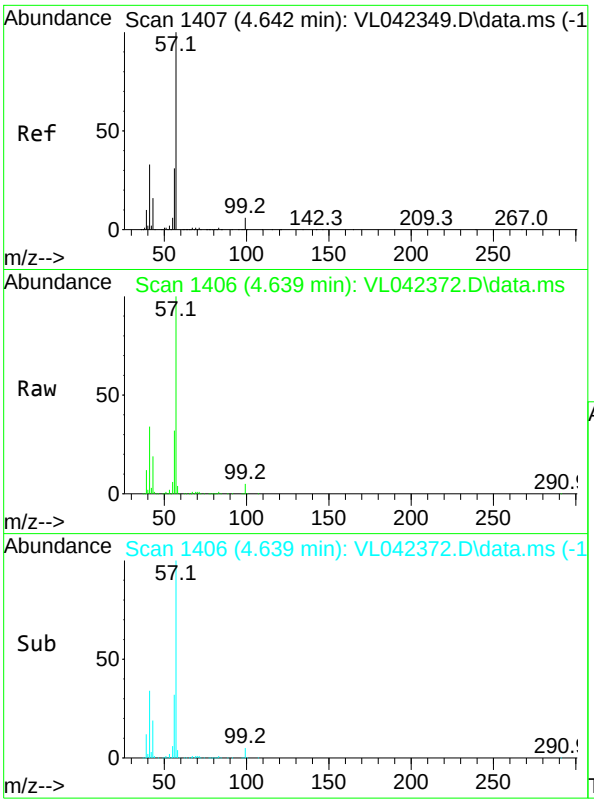


#37
1,2-Dichloroethane
Concen: 0.212 ppbv
RT: 3.218 min Scan# 967
Delta R.T. 0.000 min
Lab File: VL042372.D
Acq: 17 Apr 2025 23:26

Tgt Ion: 62 Resp: 4357

Ion	Ratio	Lower	Upper
62	100		
98	8.8	5.1	7.7#

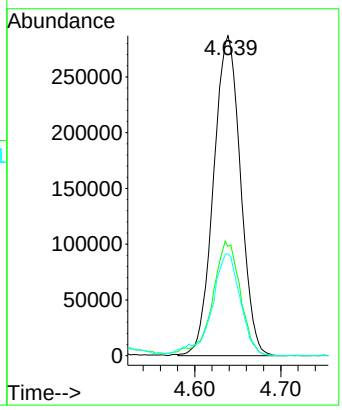




#44
2,2,4-Trimethylpentane
Concen: 10.563 ppbv
RT: 4.639 min Scan# 14
Delta R.T. -0.003 min
Lab File: VL042372.D
Acq: 17 Apr 2025 23:26

Tgt Ion: 57 Resp: 62377

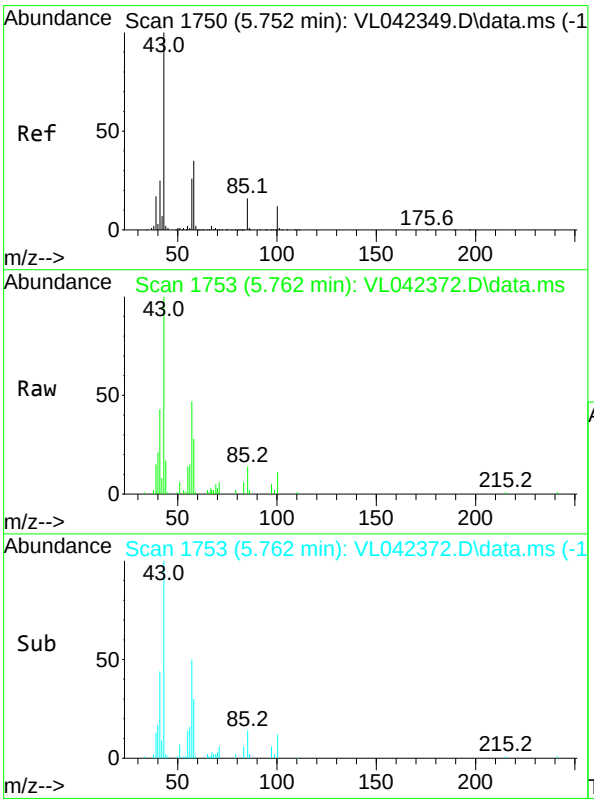
Ion	Ratio	Lower	Upper
57	100		
41	37.2	27.2	40.8
56	34.0	25.7	38.5



Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025

Manual Integrations
APPROVED

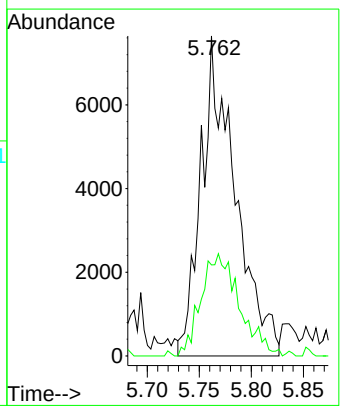
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

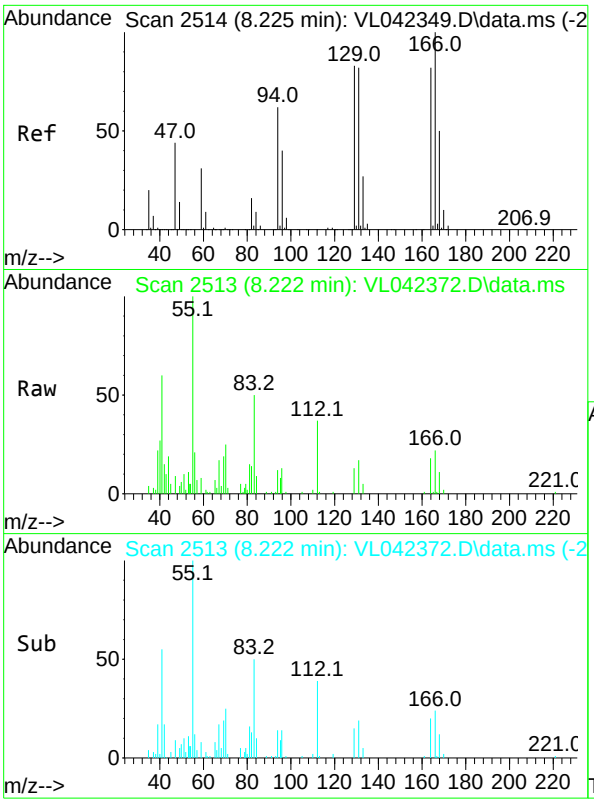


#50
4-Methyl-2-Pentanone
Concen: 0.416 ppbv m
RT: 5.762 min Scan# 1753
Delta R.T. 0.010 min
Lab File: VL042372.D
Acq: 17 Apr 2025 23:26

Tgt Ion: 43 Resp: 17333

Ion	Ratio	Lower	Upper
43	100		
58	0.0	28.6	43.0#

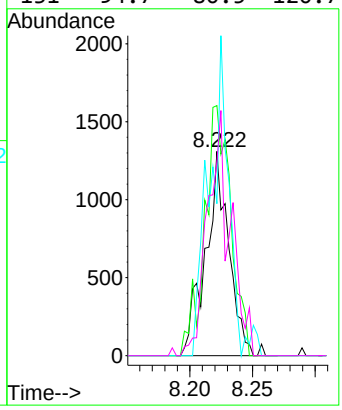




#52
Tetrachloroethene
Concen: 0.129 ppbv m
RT: 8.222 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL042372.D
Acq: 17 Apr 2025 23:26

Tgt Ion:164 Resp: 170

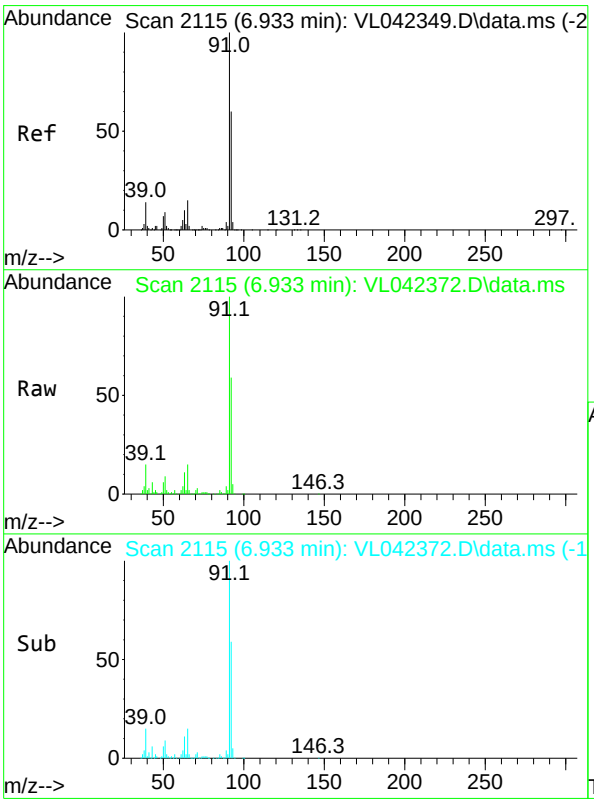
Ion	Ratio	Lower	Upper
164	100		
166	122.4	98.2	147.2
129	74.4	81.8	122.8#
131	94.7	80.5	120.7



Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025

Manual Integrations
APPROVED

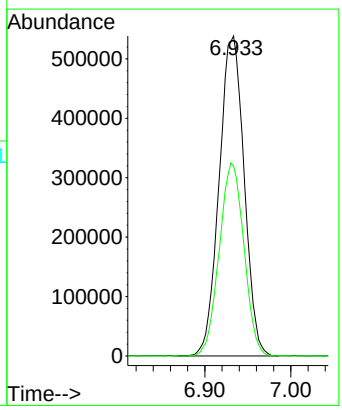
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

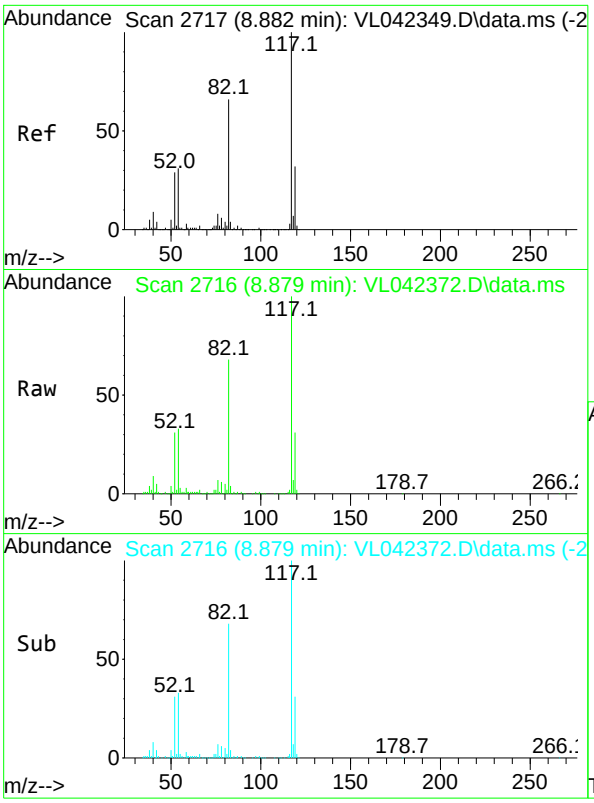


#53
Toluene
Concen: 26.450 ppbv
RT: 6.933 min Scan# 2115
Delta R.T. 0.000 min
Lab File: VL042372.D
Acq: 17 Apr 2025 23:26

Tgt Ion: 91 Resp: 1085281

Ion	Ratio	Lower	Upper
91	100		
92	59.7	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: VL042372.D
Acq: 17 Apr 2025 23:26

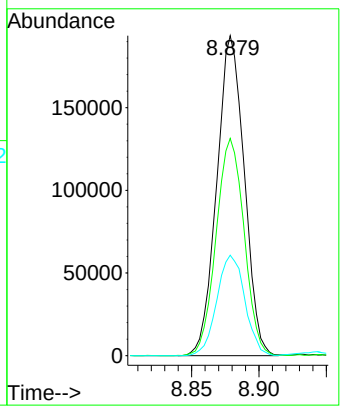
Tgt Ion:117 Resp: 27519

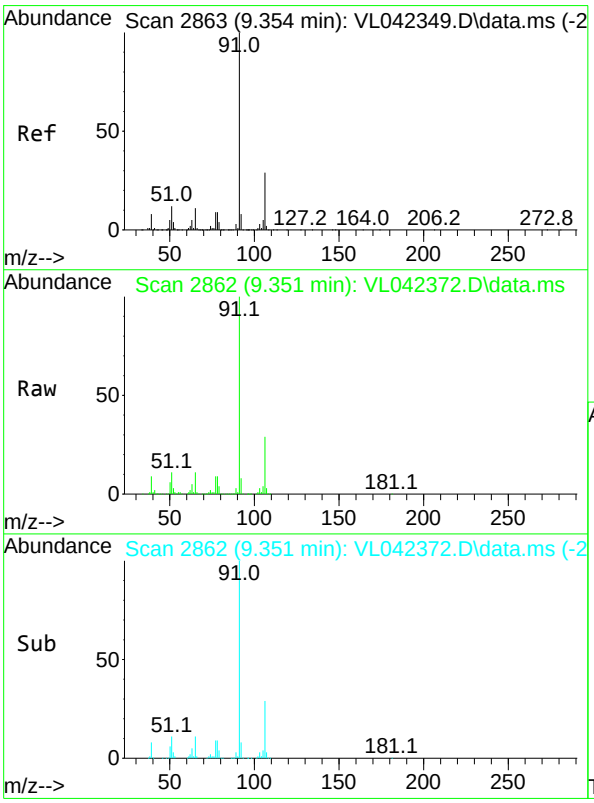
Ion	Ratio	Lower	Upper
117	100		
82	69.1	57.8	86.6
119	32.0	25.2	37.8

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025

Manual Integrations
APPROVED

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

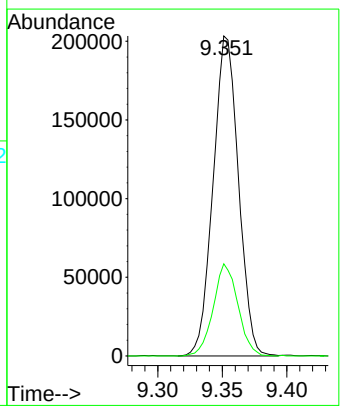


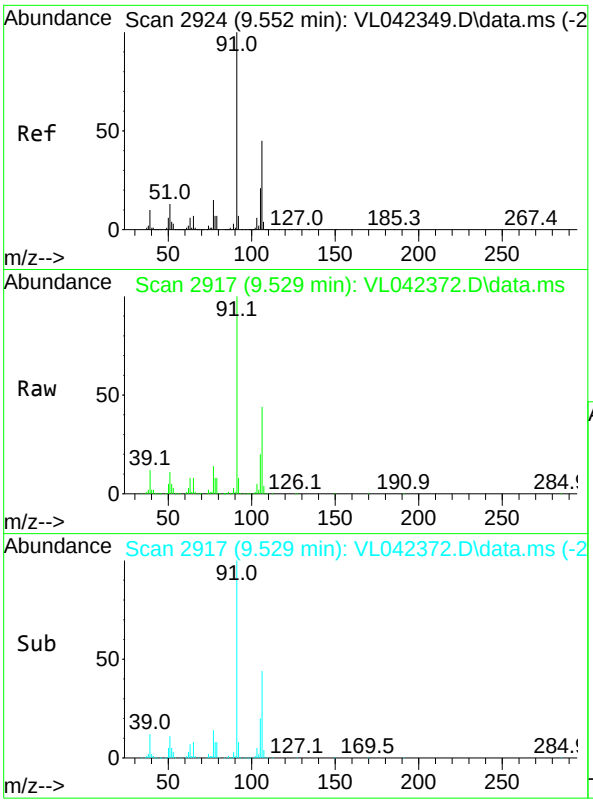


#58
Ethyl Benzene
Concen: 5.088 ppbv
RT: 9.351 min Scan# 2862
Delta R.T. -0.003 min
Lab File: VL042372.D
Acq: 17 Apr 2025 23:26

Tgt Ion: 91 Resp: 277437

Ion	Ratio	Lower	Upper
91	100		
106	28.8	23.0	34.4





#59
m/p-Xylene
Concen: 17.539 ppbv
RT: 9.529 min Scan# 2
Delta R.T. -0.022 min
Lab File: VL042372.D
Acq: 17 Apr 2025 23:26

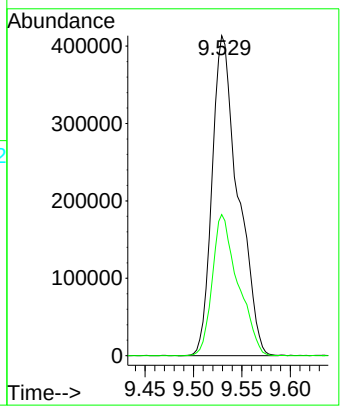
Tgt Ion: 91 Resp: 77040

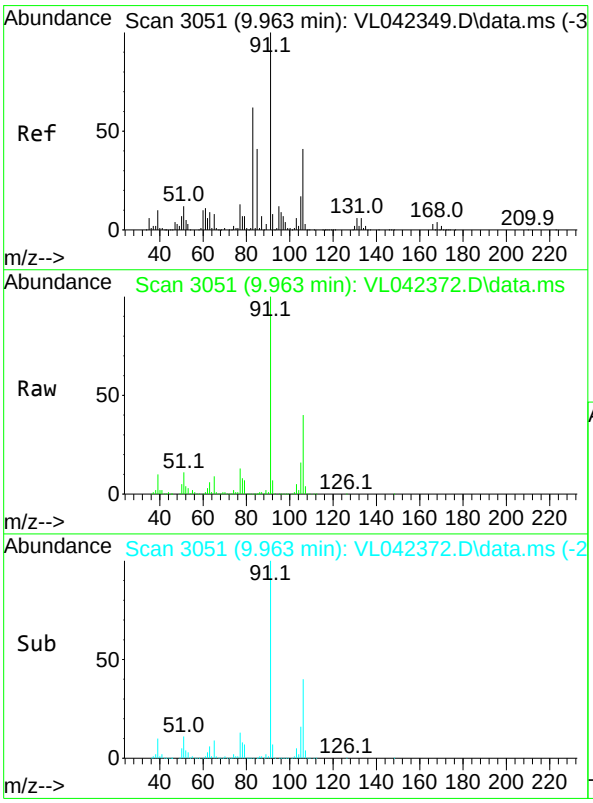
Ion	Ratio	Lower	Upper
91	100		
106	43.7	35.4	53.2

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025

Manual Integrations
APPROVED

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

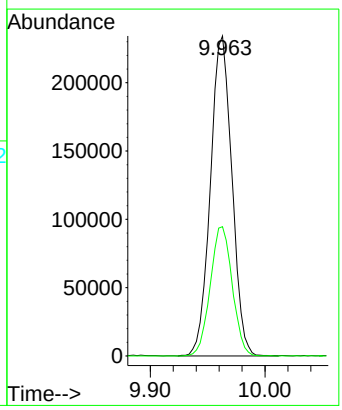


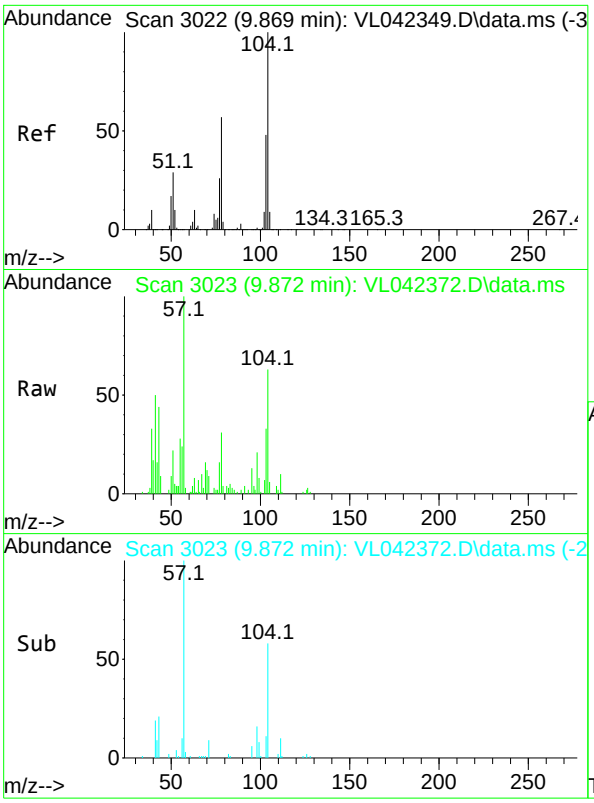


#60
o-Xylene
Concen: 6.906 ppbv
RT: 9.963 min Scan# 3051
Delta R.T. 0.000 min
Lab File: VL042372.D
Acq: 17 Apr 2025 23:26

Tgt Ion: 91 Resp: 305451

Ion	Ratio	Lower	Upper
91	100		
106	41.3	21.1	63.4





#61
Styrene
Concen: 0.366 ppbv
RT: 9.872 min Scan# 3
Delta R.T. 0.004 min
Lab File: VL042372.D
Acq: 17 Apr 2025 23:26

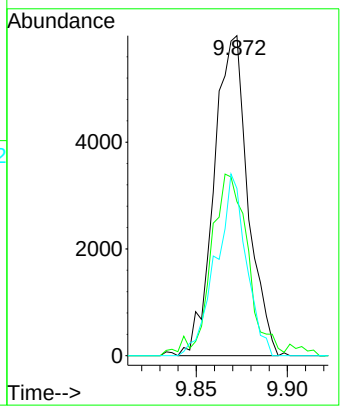
Tgt Ion:104 Resp: 773

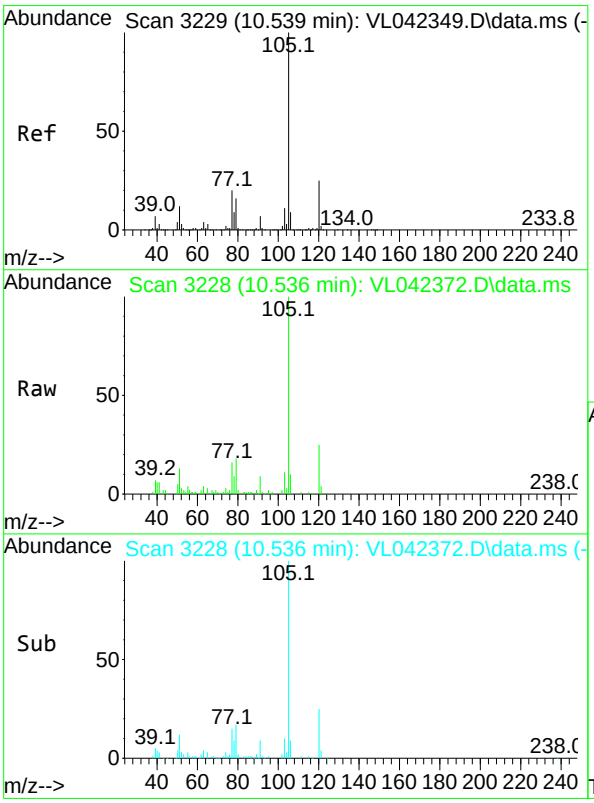
Ion	Ratio	Lower	Upper
104	100		
78	63.5	44.6	66.8
103	50.7	37.4	56.0

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025

Manual Integrations
APPROVED

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

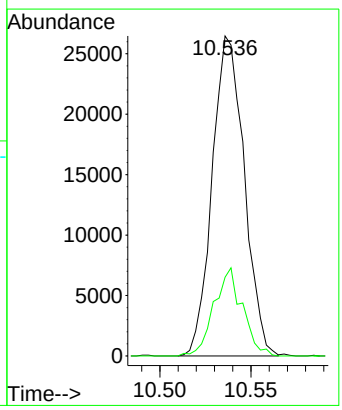


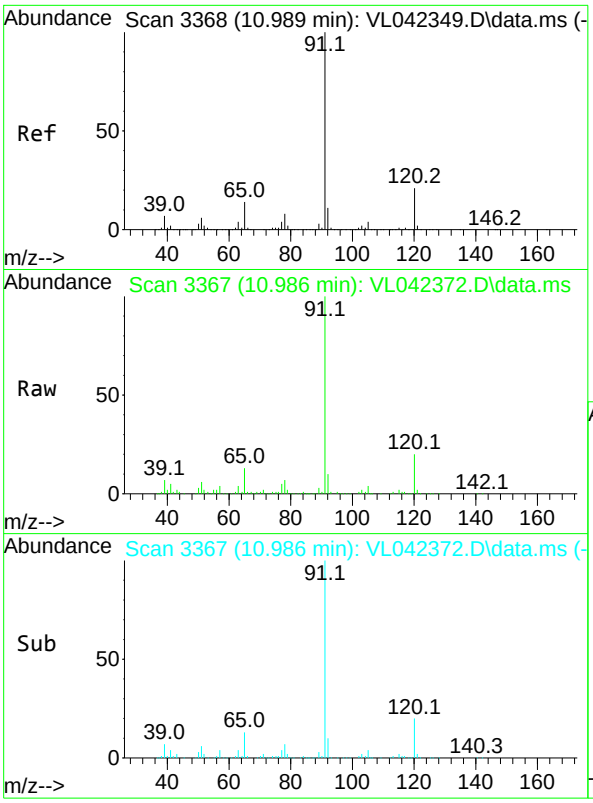


#62
Isopropylbenzene
Concen: 0.499 ppbv
RT: 10.536 min Scan# 3228
Delta R.T. -0.003 min
Lab File: VL042372.D
Acq: 17 Apr 2025 23:26

Tgt Ion:105 Resp: 32373

Ion	Ratio	Lower	Upper
105	100		
120	24.4	19.8	29.8

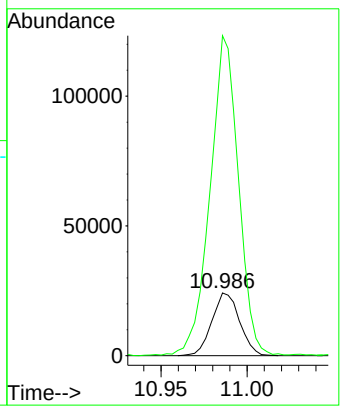




#64
n-propylbenzene
Concen: 1.657 ppbv
RT: 10.986 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042372.D
Acq: 17 Apr 2025 23:26

Tgt Ion:120 Resp: 2703

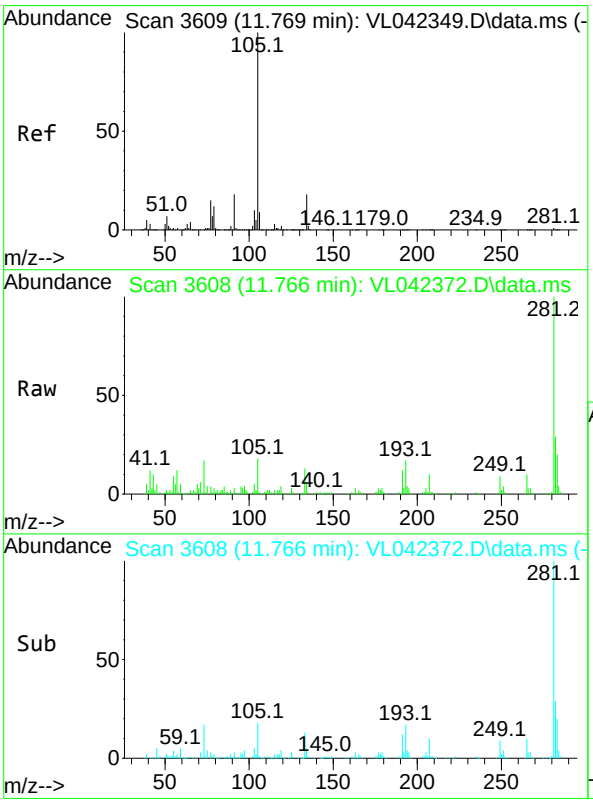
Ion	Ratio	Lower	Upper
120	100		
91	526.4	392.4	588.6



Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025

Manual Integrations
APPROVED

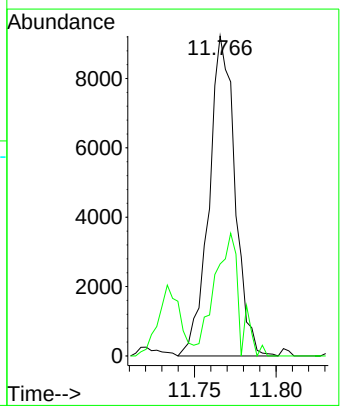
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

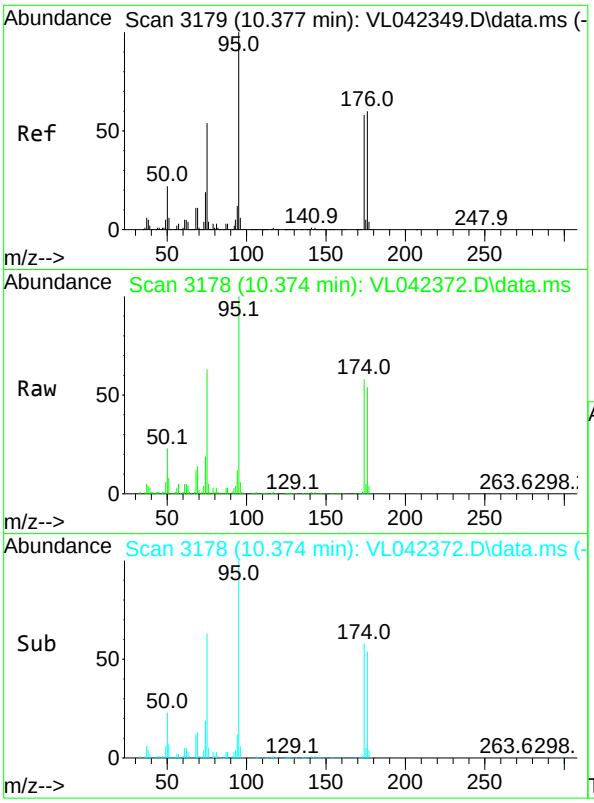


#67
sec-Butylbenzene
Concen: 0.123 ppbv
RT: 11.766 min Scan# 3608
Delta R.T. -0.003 min
Lab File: VL042372.D
Acq: 17 Apr 2025 23:26

Tgt Ion:105 Resp: 10233

Ion	Ratio	Lower	Upper
105	100		
134	36.2	14.6	21.8#

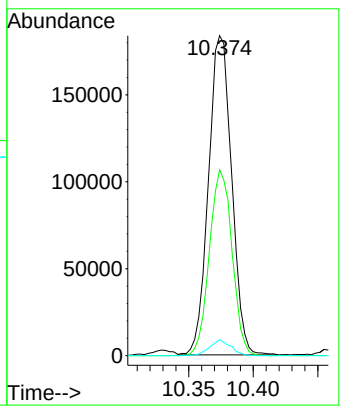




#68
1-Bromo-4-Fluorobenzene
Concen: 10.137 ppbv
RT: 10.374 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042372.D
Acq: 17 Apr 2025 23:26

Tgt Ion: 95 Resp: 22924

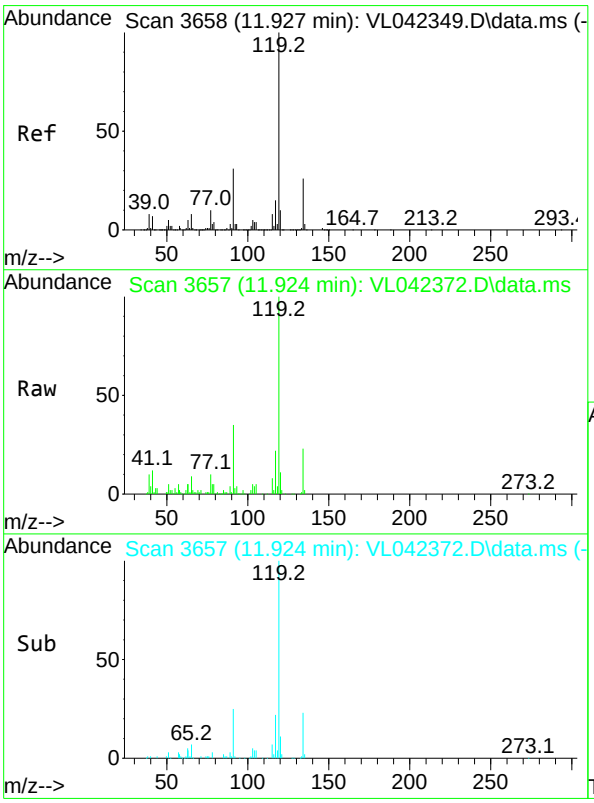
Ion	Ratio	Lower	Upper
95	100		
174	57.0	48.5	72.7
175	4.6	3.7	5.5



Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025

Manual Integrations
APPROVED

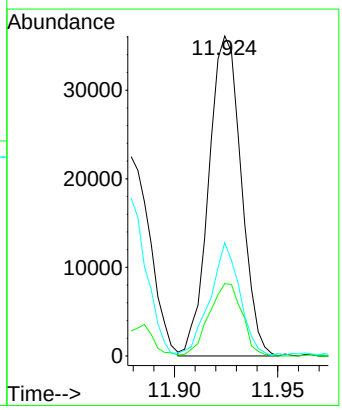
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

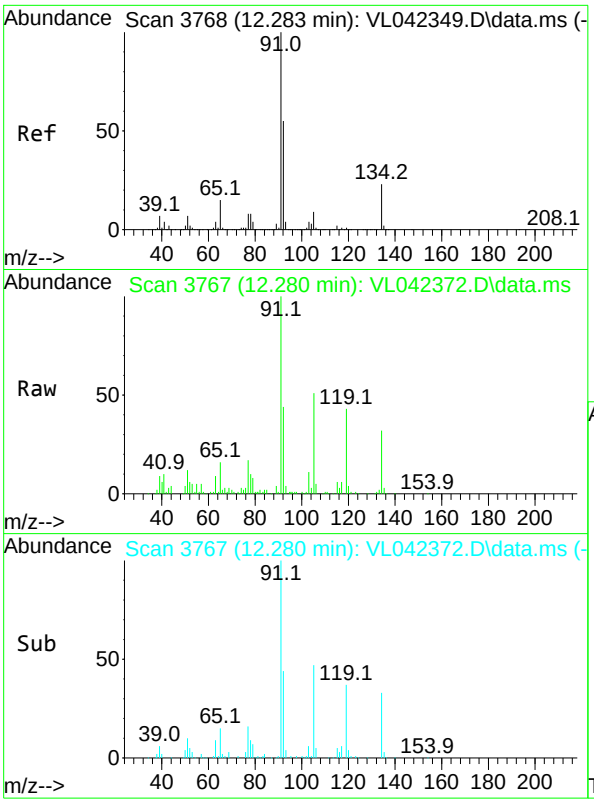


#69
p-Isopropyltoluene
Concen: 0.547 ppbv
RT: 11.924 min Scan# 3657
Delta R.T. -0.003 min
Lab File: VL042372.D
Acq: 17 Apr 2025 23:26

Tgt Ion:119 Resp: 39473

Ion	Ratio	Lower	Upper
119	100		
134	23.0	20.0	30.0
91	33.9	24.4	36.6

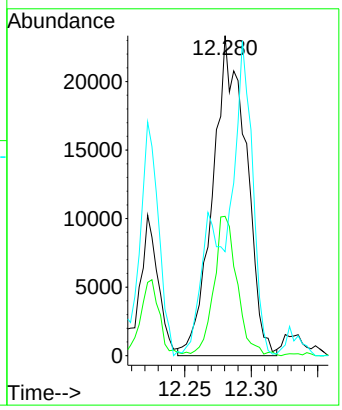




#70
n-Butylbenzene
Concen: 0.540 ppbv m
RT: 12.280 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042372.D
Acq: 17 Apr 2025 23:26

Tgt Ion: 91 Resp: 4059

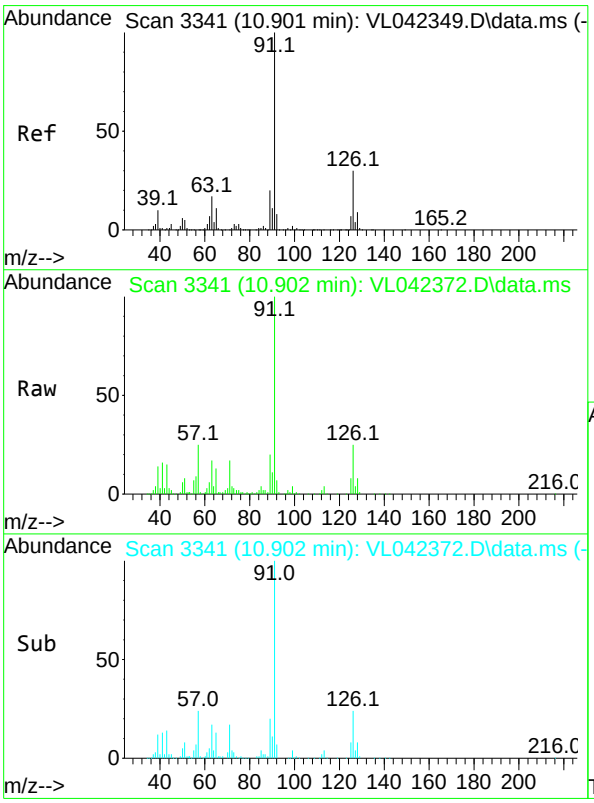
Ion	Ratio	Lower	Upper
91	100		
92	30.5	44.2	66.4#
134	0.0	18.2	27.4#



Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025

Manual Integrations
APPROVED

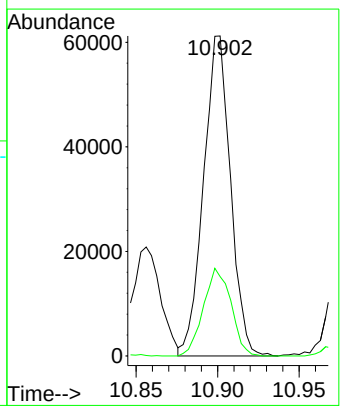
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

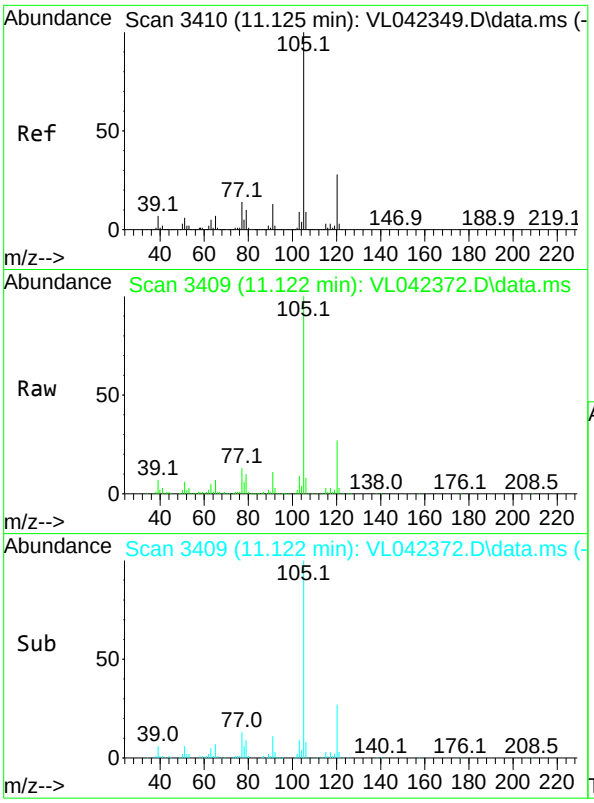


#71
2-Chlorotoluene
Concen: 1.381 ppbv
RT: 10.902 min Scan# 3341
Delta R.T. 0.000 min
Lab File: VL042372.D
Acq: 17 Apr 2025 23:26

Tgt Ion: 91 Resp: 70326

Ion	Ratio	Lower	Upper
91	100		
126	28.3	11.4	45.4

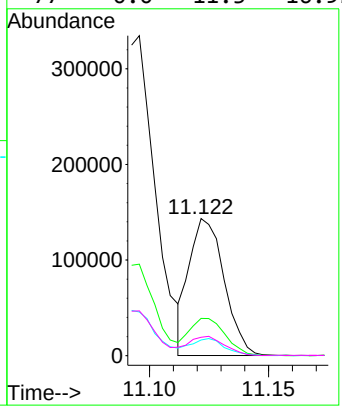




#72
4-Ethyltoluene
Concen: 2.714 ppbv
RT: 11.122 min Scan# 34
Delta R.T. -0.003 min
Lab File: VL042372.D
Acq: 17 Apr 2025 23:26

Tgt Ion:105 Resp: 14673

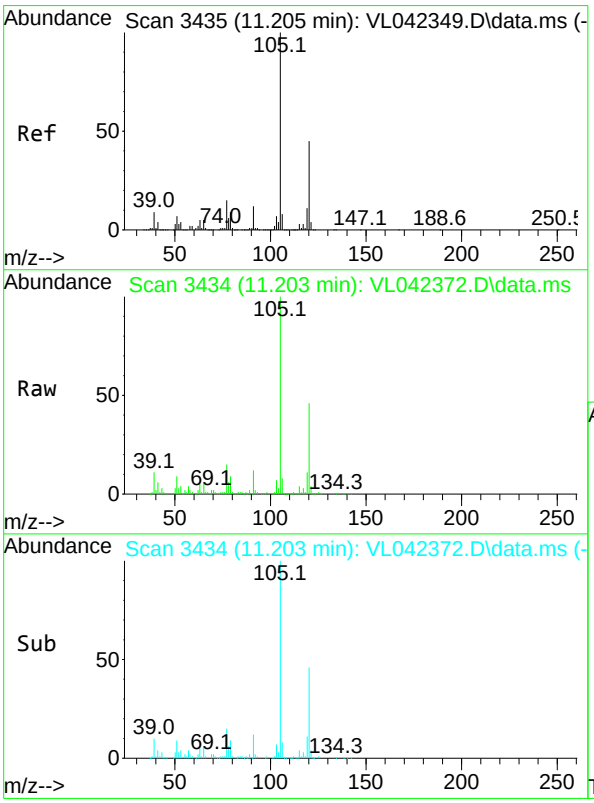
Ion	Ratio	Lower	Upper
105	100		
120	0.0	23.2	34.8#
91	0.0	10.4	15.6#
77	0.0	11.3	16.9#



Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025

Manual Integrations
APPROVED

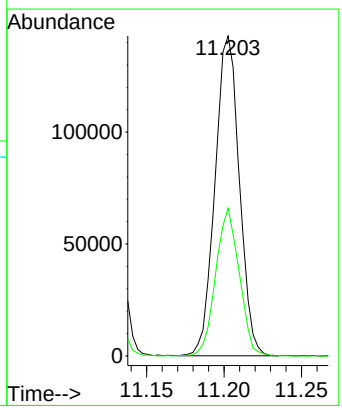
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

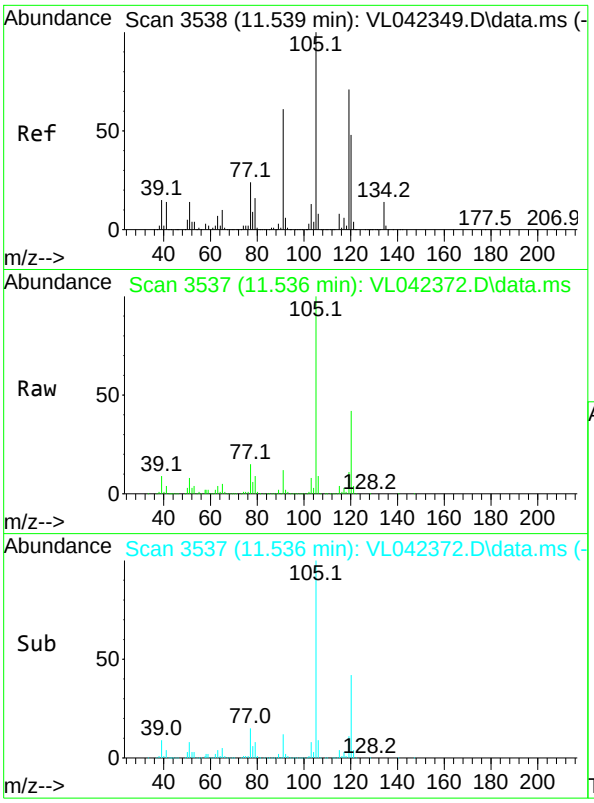


#73
1,3,5-Trimethylbenzene
Concen: 3.271 ppbv
RT: 11.203 min Scan# 3434
Delta R.T. -0.003 min
Lab File: VL042372.D
Acq: 17 Apr 2025 23:26

Tgt Ion:105 Resp: 156177

Ion	Ratio	Lower	Upper
105	100		
120	46.1	35.6	53.4

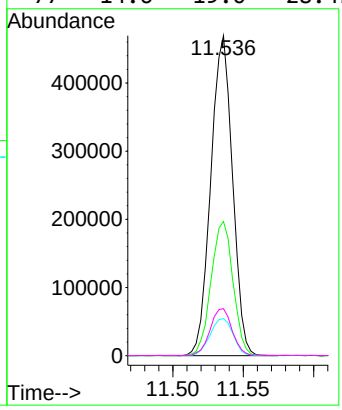




#74
1,2,4-Trimethylbenzene
Concen: 9.018 ppbv
RT: 11.536 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042372.D
Acq: 17 Apr 2025 23:26

Tgt Ion:105 Resp: 50286

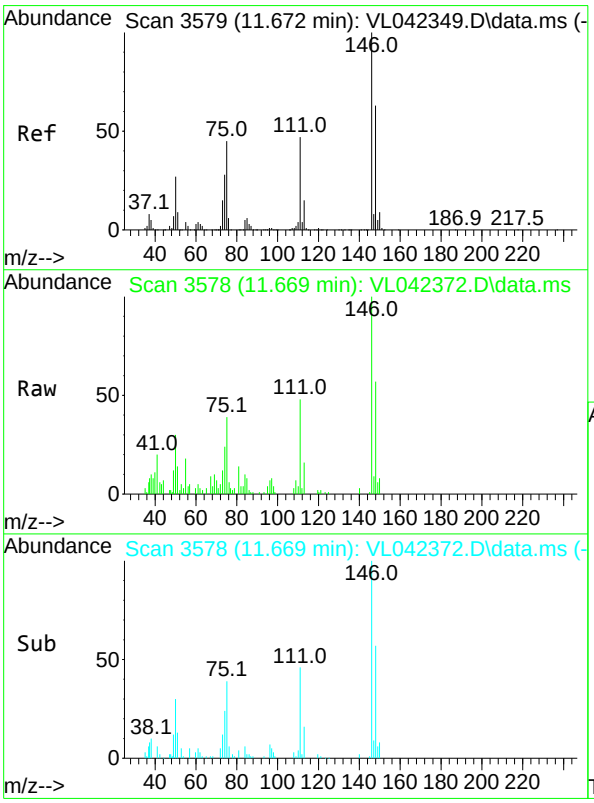
Ion	Ratio	Lower	Upper
105	100		
120	42.0	38.1	57.1
91	11.6	48.8	73.2#
77	14.6	19.0	28.4#



Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025

Manual Integrations
APPROVED

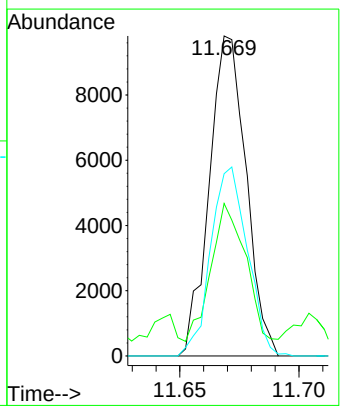
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

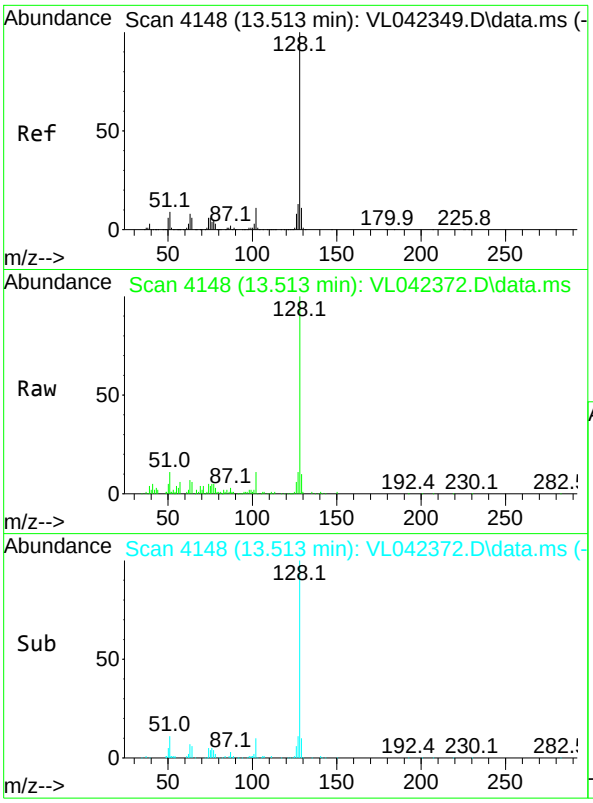


#76
1,4-Dichlorobenzene
Concen: 0.362 ppbv
RT: 11.669 min Scan# 3578
Delta R.T. -0.003 min
Lab File: VL042372.D
Acq: 17 Apr 2025 23:26

Tgt Ion:146 Resp: 10548

Ion	Ratio	Lower	Upper
146	100		
111	73.6	24.2	72.6#
148	58.9	32.1	96.5

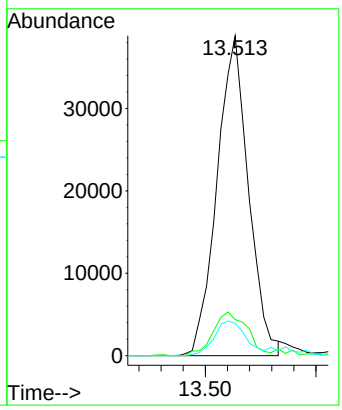




#79
Naphthalene
Concen: 0.576 ppbv
RT: 13.513 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042372.D
Acq: 17 Apr 2025 23:26

Tgt Ion:128 Resp: 3838

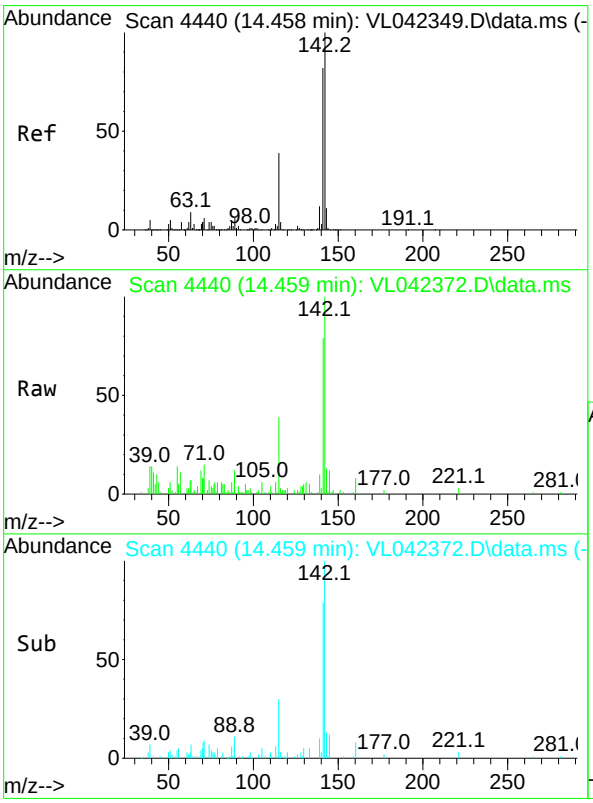
Ion	Ratio	Lower	Upper
128	100		
127	11.3	10.6	15.8
129	9.9	8.6	12.8



Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025

Manual Integrations
APPROVED

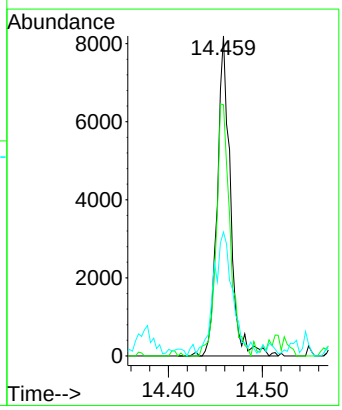
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#80
Naphthalene,2-methyl-
Concen: 0.209 ppbv
RT: 14.459 min Scan# 4440
Delta R.T. 0.000 min
Lab File: VL042372.D
Acq: 17 Apr 2025 23:26

Tgt Ion:142 Resp: 7927

Ion	Ratio	Lower	Upper
142	100		
141	82.5	66.8	100.2
115	61.2	33.4	50.2#



LSC Area Percent Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042372.D
Acq On : 17 Apr 2025 23:26
Operator : SY/MD
Sample : Q1726-07
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025

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: VL042372.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.428	410	414	420	rBV	4149173	4703643	68.01%	10.408%
2	1.467	423	426	429	rBV	259836	133380	1.93%	0.295%
3	1.486	429	432	435	rBV	316661	142354	2.06%	0.315%
4	1.525	440	444	449	rBV	734418	363120	5.25%	0.804%
5	1.557	450	454	458	rVV	911598	461565	6.67%	1.021%
6	1.619	469	473	477	rVB	660892	370310	5.35%	0.819%
7	1.719	500	504	511	rBV	1208071	756328	10.94%	1.674%
8	1.832	534	539	549	rBV	7780993	6916070	100.00%	15.304%
9	1.884	549	555	561	rBV	809961	546342	7.90%	1.209%
10	2.059	600	609	619	rVB4	162694	176880	2.56%	0.391%
11	2.273	669	675	681	rBV	254929	208922	3.02%	0.462%
12	2.473	732	737	743	rVB	179645	172311	2.49%	0.381%
13	2.622	776	783	792	rVB2	123325	135181	1.95%	0.299%
14	2.787	826	834	840	rBV	401765	418293	6.05%	0.926%
15	2.823	840	845	857	rVB3	275398	340875	4.93%	0.754%
16	3.227	961	970	978	rVV	139403	181926	2.63%	0.403%
17	3.279	978	986	1003	rVB2	88499	134115	1.94%	0.297%
18	3.655	1086	1102	1107	rBV5	69014	148196	2.14%	0.328%
19	3.687	1107	1112	1125	rVB	99309	143646	2.08%	0.318%
20	3.852	1150	1163	1173	rBV4	66815	121378	1.76%	0.269%
21	3.956	1182	1195	1206	rBV	537662	850976	12.30%	1.883%
22	4.050	1206	1224	1232	rVV2	242427	456330	6.60%	1.010%
23	4.092	1232	1237	1249	rVB4	106689	183283	2.65%	0.406%
24	4.266	1276	1291	1303	rVB2	260029	495297	7.16%	1.096%
25	4.441	1328	1345	1356	rBV3	53043	110956	1.60%	0.246%
26	4.522	1356	1370	1383	rVV9	52987	160939	2.33%	0.356%
27	4.639	1385	1406	1425	rVB	660751	1548994	22.40%	3.428%
28	4.978	1498	1511	1523	rVB4	198877	401112	5.80%	0.888%
29	5.661	1700	1722	1741	rVB6	148541	424241	6.13%	0.939%
30	6.189	1874	1885	1886	rBV	78178	80112	1.16%	0.177%
31	6.267	1908	1909	1929	rVB3	102601	143145	2.07%	0.317%
32	6.823	2065	2081	2099	rBV5	307833	763726	11.04%	1.690%
33	6.933	2099	2115	2134	rVV2	1491384	3423662	49.50%	7.576%
34	7.183	2179	2192	2203	rBV4	110483	224943	3.25%	0.498%
35	7.377	2237	2252	2260	rBV2	161952	324167	4.69%	0.717%
36	7.422	2260	2266	2285	rVB6	60173	142619	2.06%	0.316%

LSC Area Percent Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042372.D
Acq On : 17 Apr 2025 23:26
Operator : SY/MD
Sample : Q1726-07
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025

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	7.597	2308	2320	2338	rBV5	170190	501113	7.25%	1.109%
38	7.684	2338	2347	2359	rVB6	97166	184748	2.67%	0.409%
39	7.895	2397	2412	2430	rBV3	162489	375813	5.43%	0.832%
40	8.131	2475	2485	2503	rVB5	67741	142306	2.06%	0.315%
41	8.299	2522	2537	2555	rVB4	269872	548237	7.93%	1.213%
42	8.879	2701	2716	2726	rBV	697195	1073718	15.52%	2.376%
43	8.937	2726	2734	2741	rVV3	137167	230811	3.34%	0.511%
44	8.979	2741	2747	2763	rVB8	99404	221831	3.21%	0.491%
45	9.144	2790	2798	2812	rBV4	74802	126242	1.83%	0.279%
46	9.351	2853	2862	2877	rBV	486831	723039	10.45%	1.600%
47	9.529	2906	2917	2936	rVB	1197373	2268016	32.79%	5.019%
48	9.727	2965	2978	2991	rVB4	132097	288390	4.17%	0.638%
49	9.856	3004	3018	3033	rBV2	146337	248872	3.60%	0.551%
50	9.963	3036	3051	3061	rBV	655358	935170	13.52%	2.069%
51	10.351	3160	3171	3172	rBV3	234217	237469	3.43%	0.525%
52	10.374	3172	3178	3189	rVB	862092	1102000	15.93%	2.439%
53	10.539	3220	3229	3236	rBV2	75230	101100	1.46%	0.224%
54	10.856	3319	3327	3334	rVB	213940	260205	3.76%	0.576%
55	10.902	3334	3341	3352	rVB	239932	296569	4.29%	0.656%
56	10.986	3352	3367	3382	rVB	271421	384662	5.56%	0.851%
57	11.092	3391	3400	3406	rBV	880630	1027079	14.85%	2.273%
58	11.122	3406	3409	3418	rVB	372327	388889	5.62%	0.861%
59	11.203	3420	3434	3443	rVB	452411	533755	7.72%	1.181%
60	11.309	3462	3467	3471	rBV2	111751	126298	1.83%	0.279%
61	11.335	3471	3475	3489	rVB	327028	358641	5.19%	0.794%
62	11.400	3489	3495	3499	rBV3	76075	89012	1.29%	0.197%
63	11.536	3528	3537	3549	rBV	1362958	1506473	21.78%	3.334%
64	11.753	3598	3604	3606	rBV	185553	180252	2.61%	0.399%
65	11.772	3606	3610	3619	rVB2	377131	446560	6.46%	0.988%
66	11.879	3636	3643	3650	rVB2	343333	364664	5.27%	0.807%
67	11.924	3650	3657	3667	rBV	107973	129583	1.87%	0.287%
68	12.015	3675	3685	3689	rBV2	186582	215179	3.11%	0.476%
69	12.041	3689	3693	3700	rVV3	194183	209337	3.03%	0.463%
70	12.083	3700	3706	3716	rVB4	69788	100878	1.46%	0.223%
71	12.222	3744	3749	3756	rVB2	251209	264833	3.83%	0.586%
72	12.267	3756	3763	3766	rBV2	113453	118587	1.71%	0.262%
73	12.293	3766	3771	3777	rVB2	198681	211848	3.06%	0.469%
74	12.403	3798	3805	3810	rBV4	84810	92602	1.34%	0.205%
75	12.439	3810	3816	3821	rVV2	91923	87717	1.27%	0.194%
76	12.504	3831	3836	3840	rBV4	156170	185846	2.69%	0.411%

LSC Area Percent Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042372.D
Acq On : 17 Apr 2025 23:26
Operator : SY/MD
Sample : Q1726-07
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025

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	12.543	3846	3848	3854	rVB3	101954	83960	1.21%	0.186%
78	12.588	3854	3862	3871	rBV3	245858	328697	4.75%	0.727%
79	12.653	3876	3882	3893	rVV7	62180	112361	1.62%	0.249%
80	12.827	3931	3936	3942	rVB2	172187	166620	2.41%	0.369%
81	12.918	3956	3964	3969	rBV	121424	134011	1.94%	0.297%
82	12.950	3969	3974	3981	rVB	159739	158560	2.29%	0.351%
83	13.125	4024	4028	4036	rVB3	99913	106666	1.54%	0.236%
84	13.225	4053	4059	4064	rBV	124137	137419	1.99%	0.304%
85	13.329	4085	4091	4101	rBV8	60879	99528	1.44%	0.220%
86	13.384	4101	4108	4115	rVB	422006	463895	6.71%	1.027%
87	13.666	4188	4195	4204	rVB6	69971	108183	1.56%	0.239%
88	13.724	4207	4213	4219	rBV2	96133	93536	1.35%	0.207%

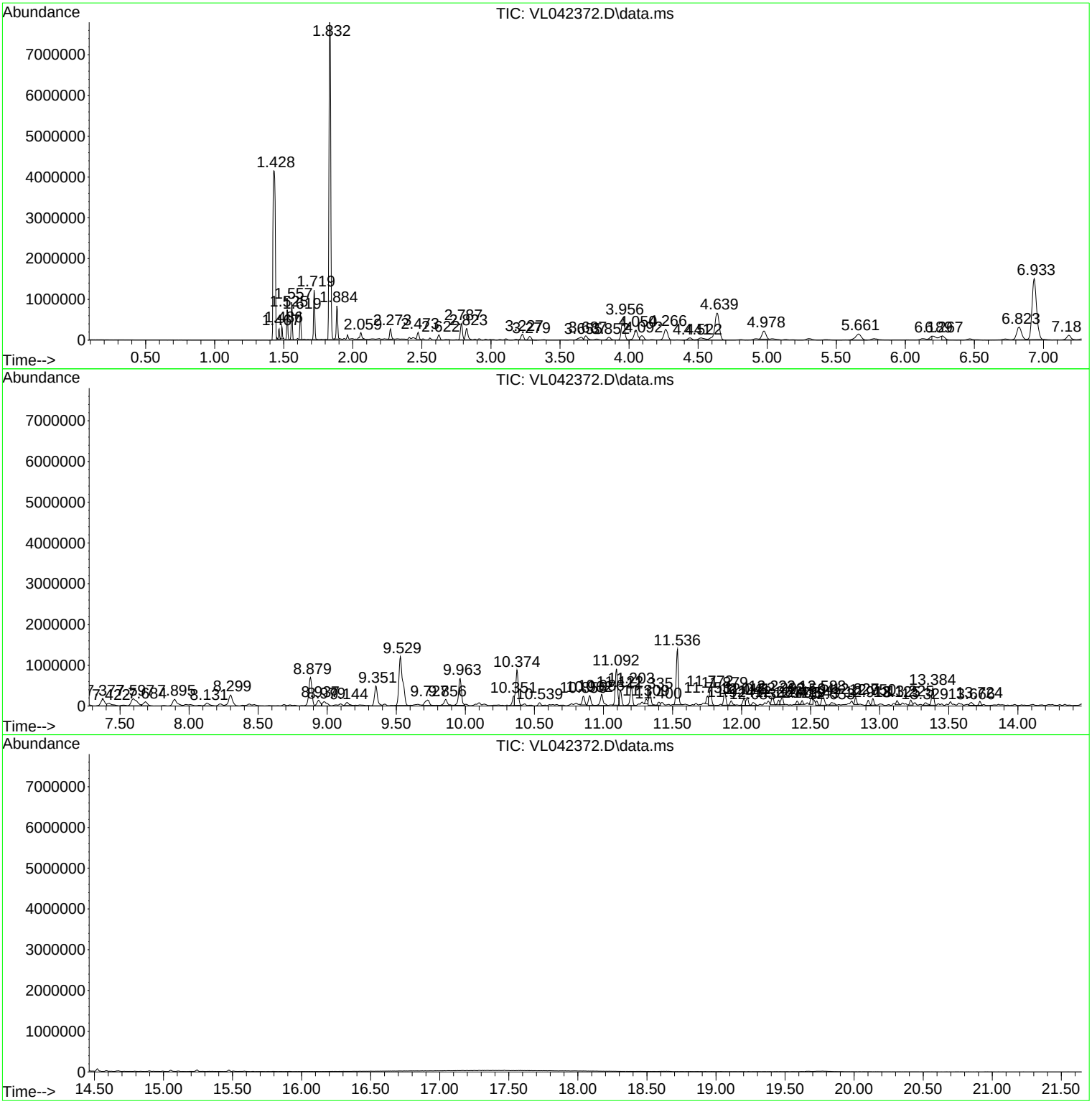
Sum of corrected areas: 45191117

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042372.D
Acq On : 17 Apr 2025 23:26
Operator : SY/MD
Sample : Q1726-07
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025

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 : VL042372.D
Acq On : 17 Apr 2025 23:26
Operator : SY/MD
Sample : Q1726-07
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025

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

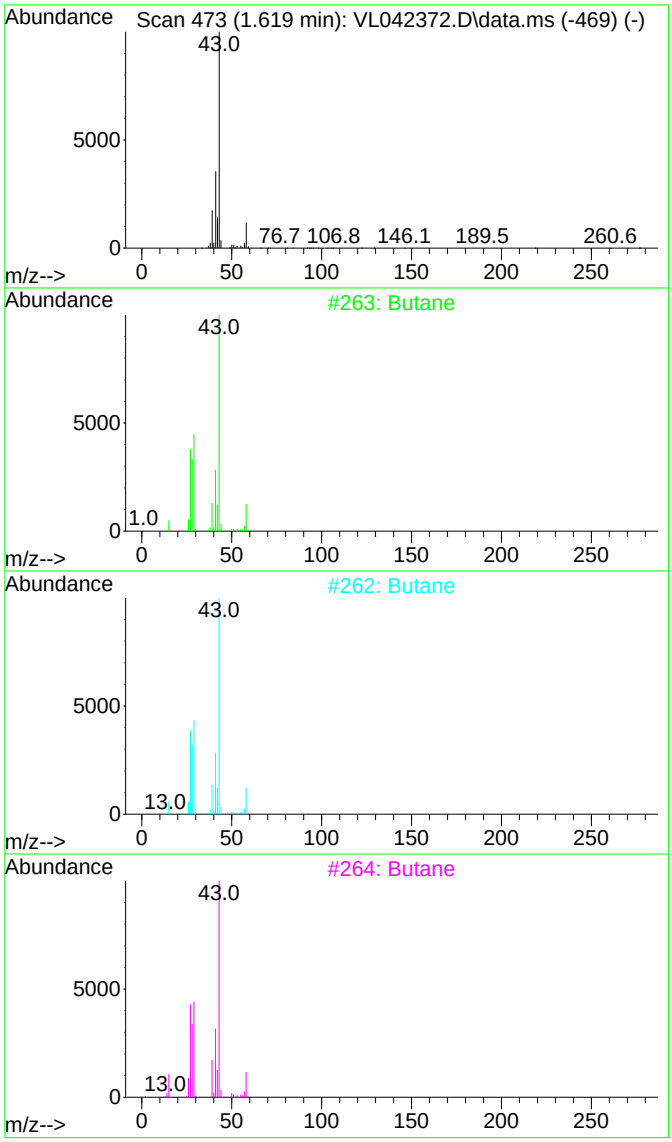
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

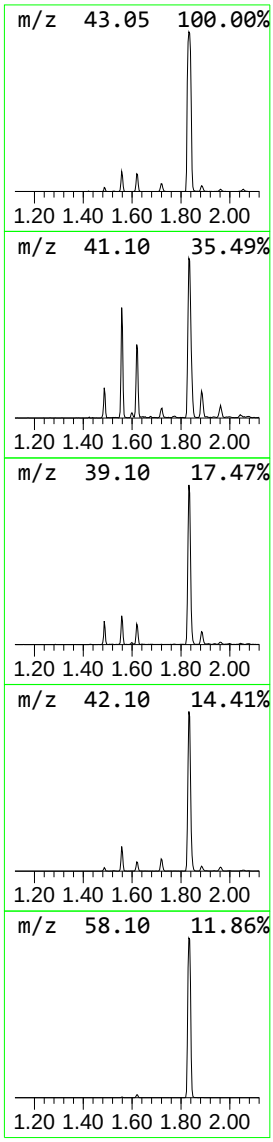
****

Peak Number 1 Butane Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.619	8.85 ppbv	370310	Bromochloromethane	2.787

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane	58	C4H10	000106-97-8	80
2	Butane	58	C4H10	000106-97-8	80
3	Butane	58	C4H10	000106-97-8	72
4	Butane	58	C4H10	000106-97-8	72
5	Isobutane	58	C4H10	000075-28-5	9





Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042372.D
Acq On : 17 Apr 2025 23:26
Operator : SY/MD
Sample : Q1726-07
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025

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

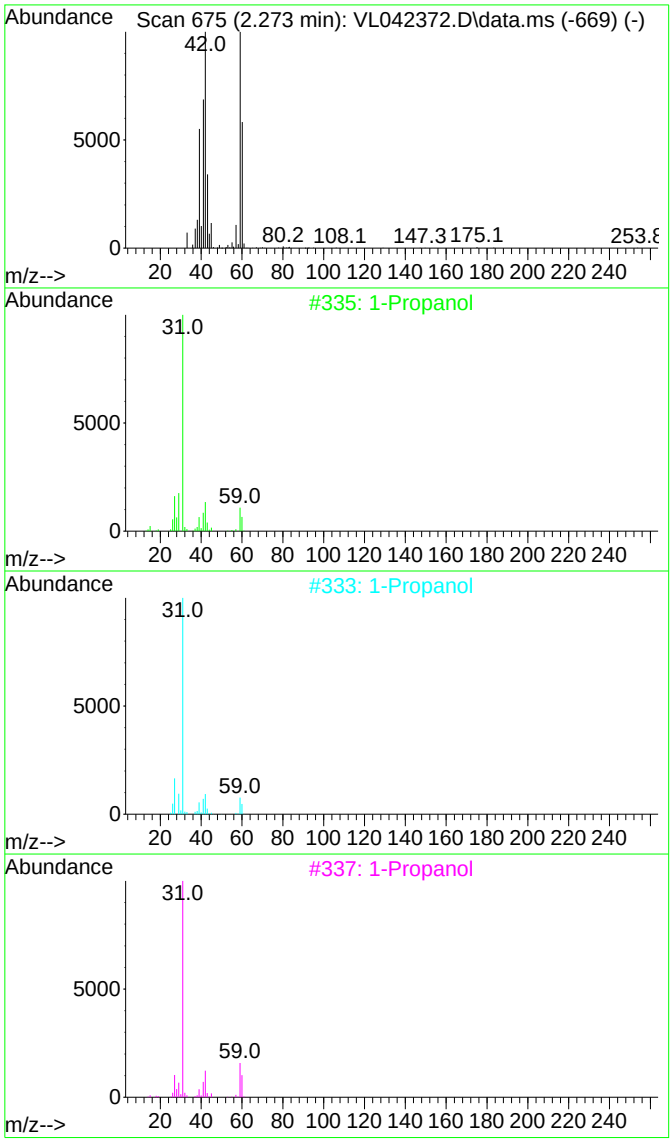
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

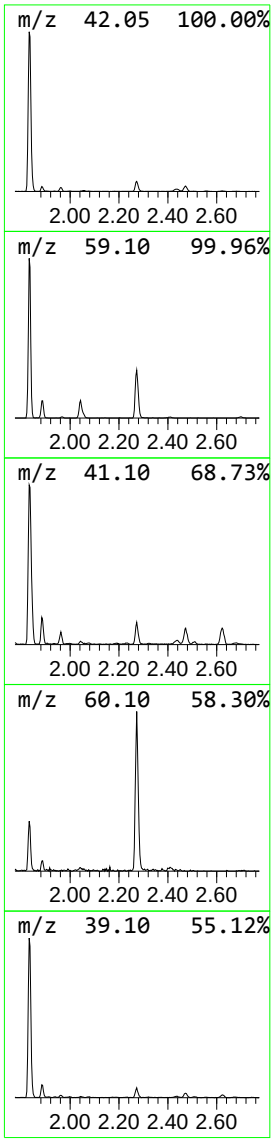
****

Peak Number 2 1-Propanol Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.273	4.99 ppbv	208922	Bromochloromethane	2.787

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Propanol	60	C3H8O	000071-23-8	58
2	1-Propanol	60	C3H8O	000071-23-8	53
3	1-Propanol	60	C3H8O	000071-23-8	53
4	1-Propanol	60	C3H8O	000071-23-8	53
5	1-Propanol	60	C3H8O	000071-23-8	33





Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042372.D
Acq On : 17 Apr 2025 23:26
Operator : SY/MD
Sample : Q1726-07
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025

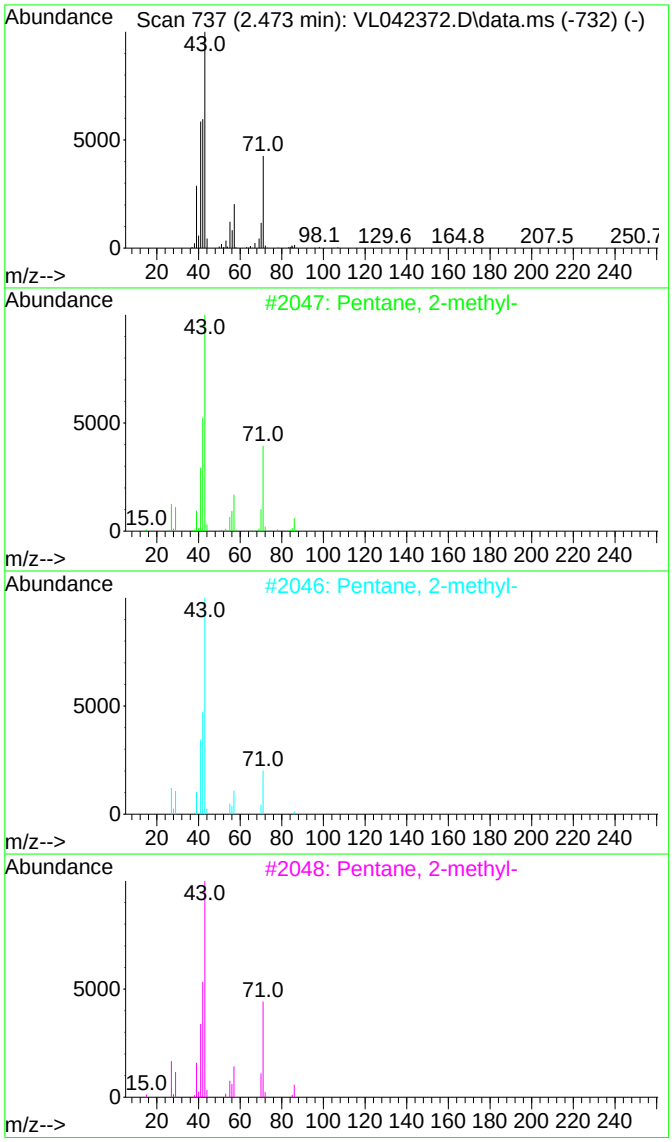
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

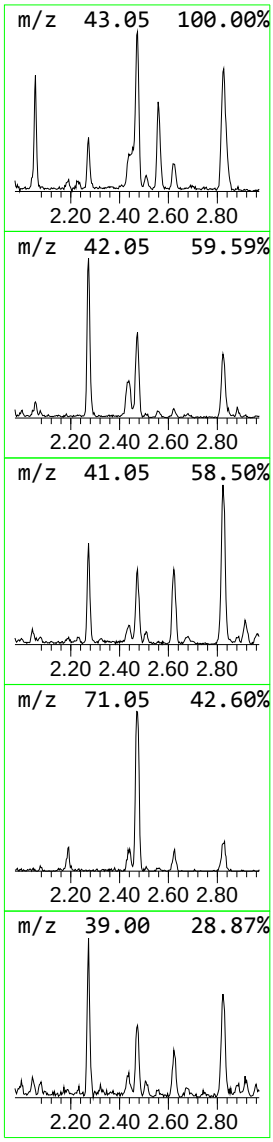
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 3 Pentane, 2-methyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.473	4.12 ppbv	172311	Bromochloromethane	2.787

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2-methyl-	86	C6H14	000107-83-5	83
2	Pentane, 2-methyl-	86	C6H14	000107-83-5	78
3	Pentane, 2-methyl-	86	C6H14	000107-83-5	78
4	Pentane, 2-methyl-	86	C6H14	000107-83-5	78
5	Pentane, 2-methyl-	86	C6H14	000107-83-5	78





Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042372.D
Acq On : 17 Apr 2025 23:26
Operator : SY/MD
Sample : Q1726-07
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025

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

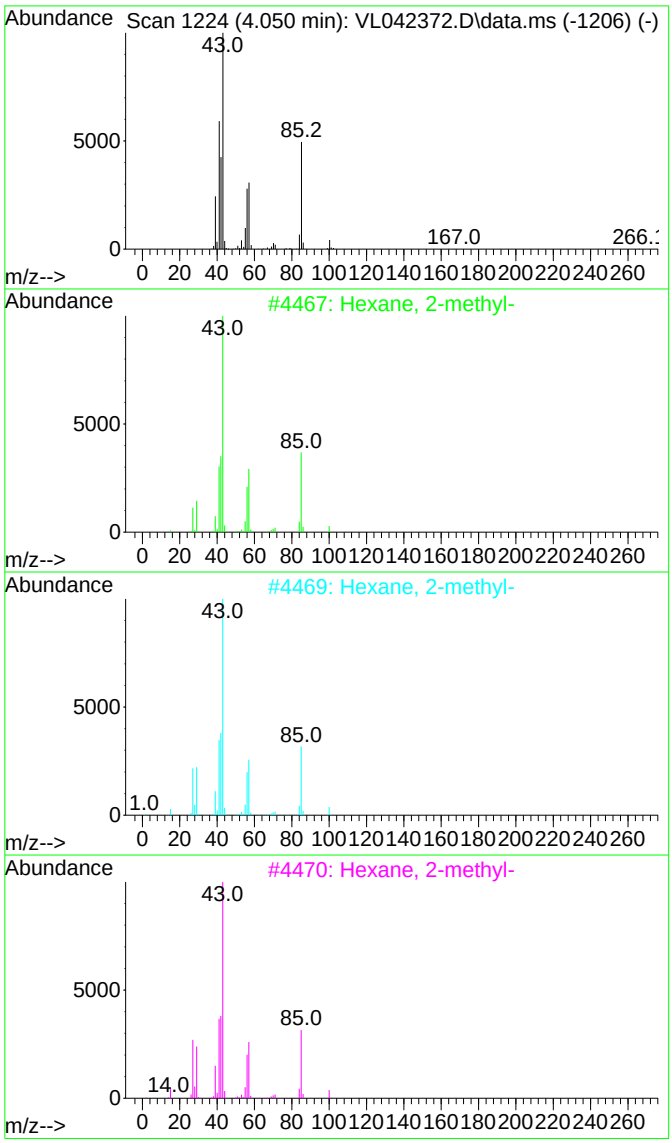
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

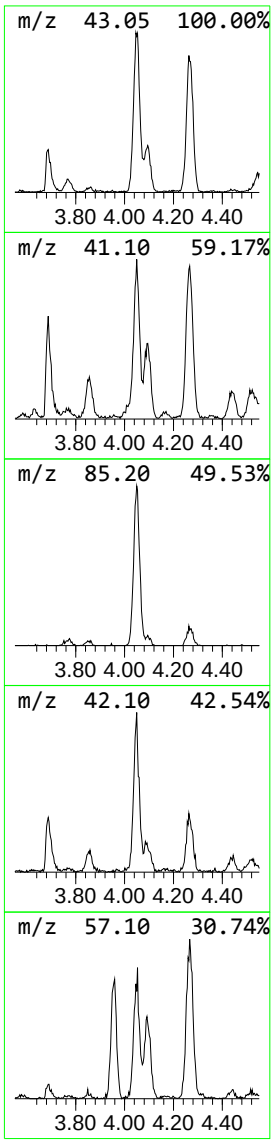
****

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.050	5.36 ppbv	456330	1,4-Difluorobenzene	3.956

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	72
4	Pentane, 2,4-dimethyl-	100	C7H16	000108-08-7	64
5	Octane	114	C8H18	000111-65-9	50





Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042372.D
Acq On : 17 Apr 2025 23:26
Operator : SY/MD
Sample : Q1726-07
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025

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

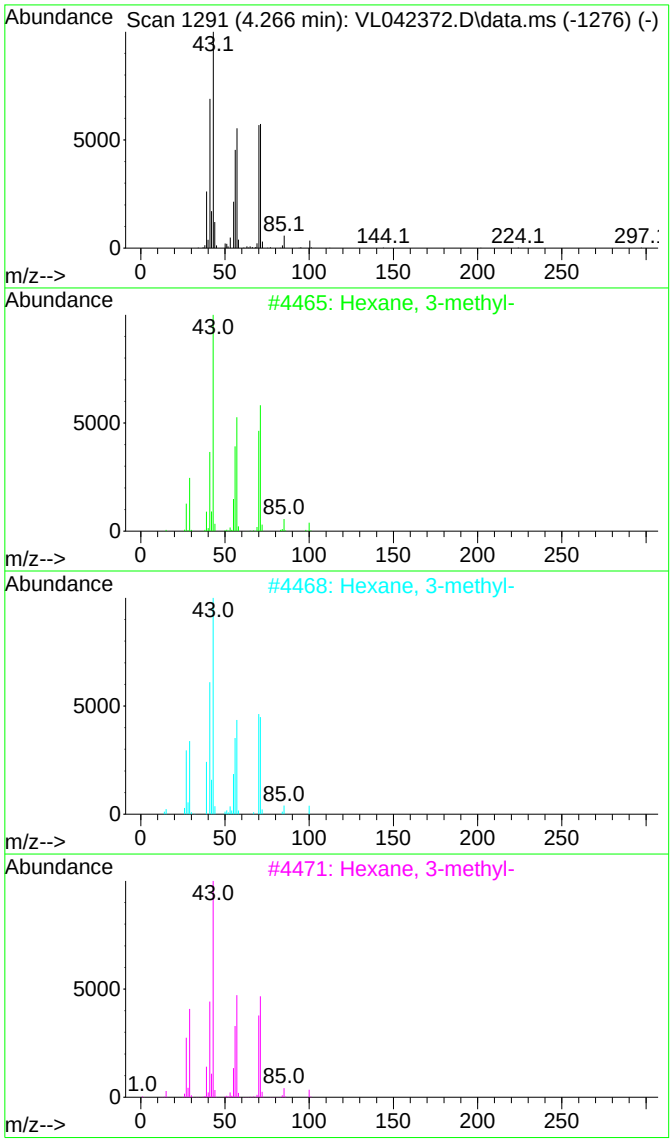
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

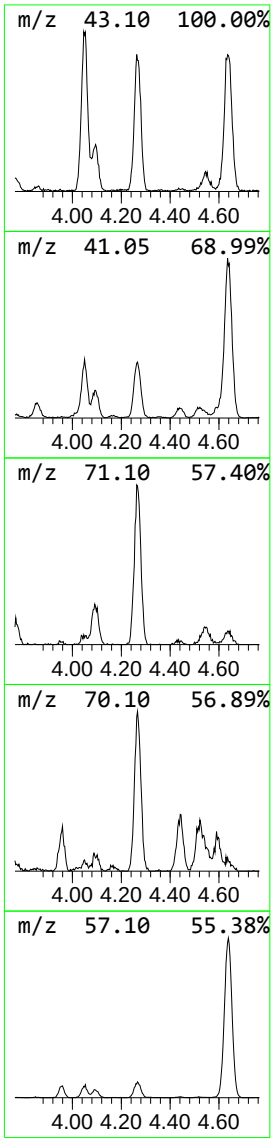
****

Peak Number 5 Hexane, 3-methyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.266	5.82 ppbv	495297	1,4-Difluorobenzene	3.956

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	72
4	Heptane, 4-methyl-	114	C8H18	000589-53-7	53
5	Pentane, 3-ethyl-	100	C7H16	000617-78-7	53





Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042372.D
Acq On : 17 Apr 2025 23:26
Operator : SY/MD
Sample : Q1726-07
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025

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

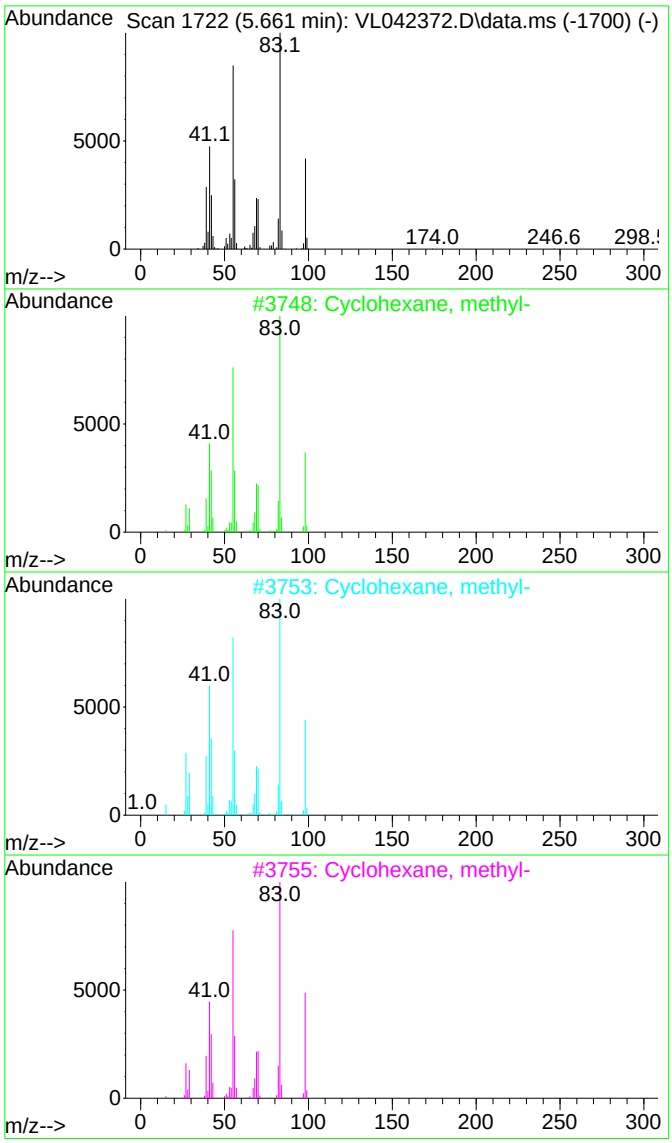
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

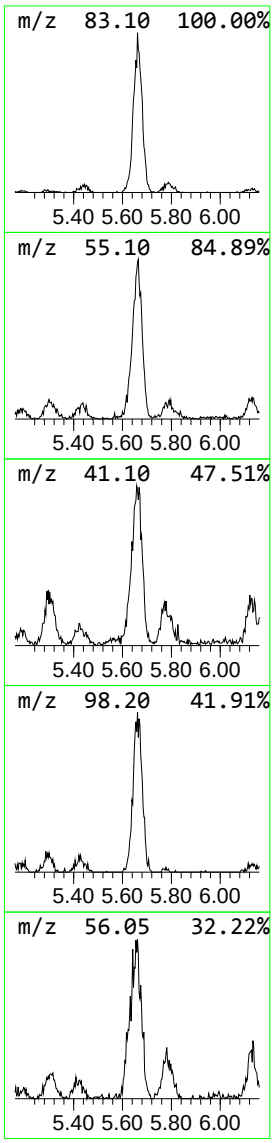
****

Peak Number 6 Cyclohexane, methyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.661	4.99 ppbv	424241	1,4-Difluorobenzene	3.956

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, methyl-	98	C7H14	000108-87-2	97
2	Cyclohexane, methyl-	98	C7H14	000108-87-2	93
3	Cyclohexane, methyl-	98	C7H14	000108-87-2	93
4	Cyclohexane, methyl-	98	C7H14	000108-87-2	80
5	2-Pentene, 3,4-dimethyl-, (E)-	98	C7H14	004914-92-5	64





Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042372.D
Acq On : 17 Apr 2025 23:26
Operator : SY/MD
Sample : Q1726-07
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025

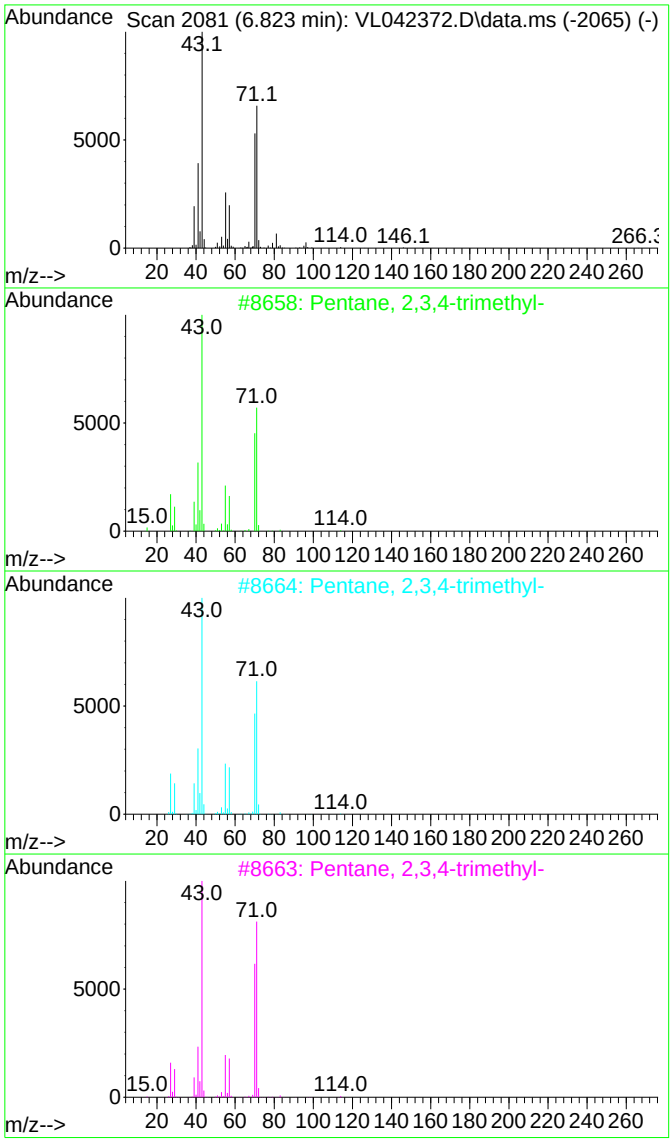
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

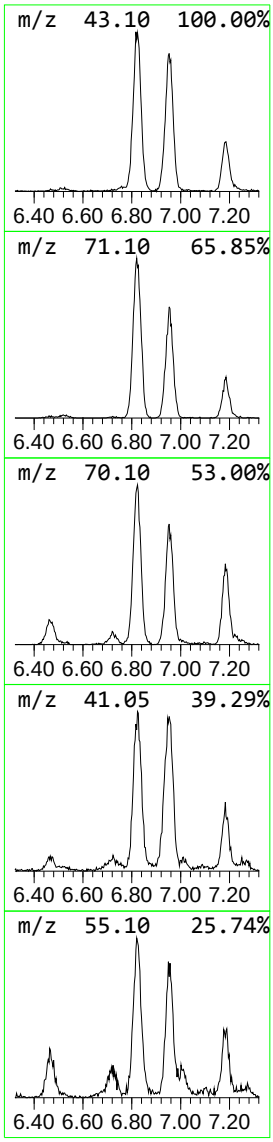
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 7 Pentane, 2,3,4-trimethyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.823	7.11 ppbv	763726	Chlorobenzene-d5	8.879

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	90
2	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	90
3	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	86
4	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	86
5	Heptane, 4-methyl-	114	C8H18	000589-53-7	78





Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042372.D
Acq On : 17 Apr 2025 23:26
Operator : SY/MD
Sample : Q1726-07
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025

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

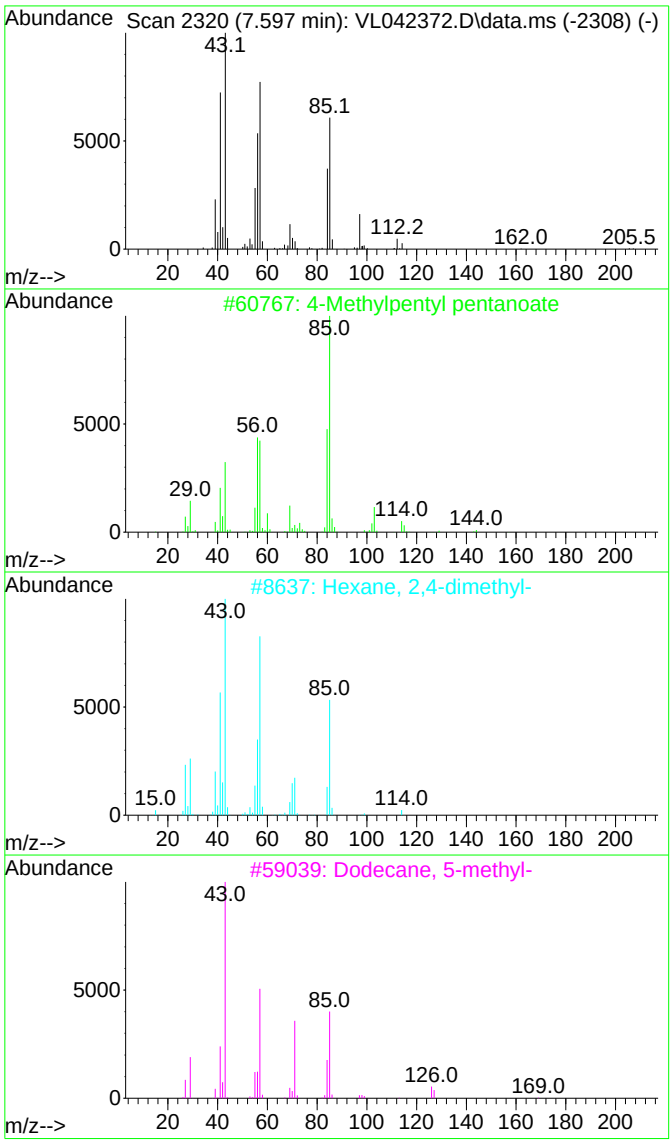
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

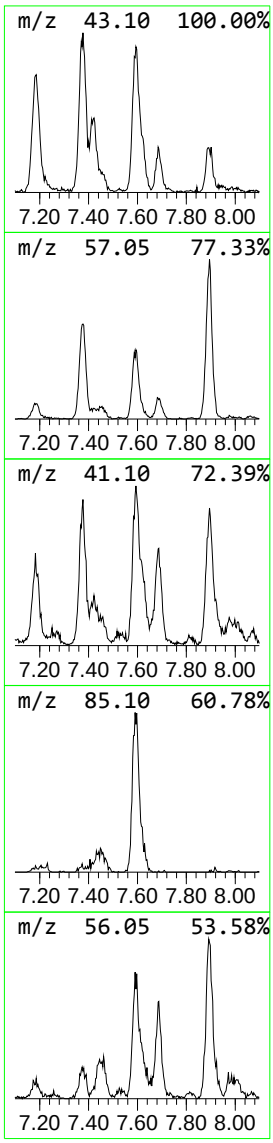
****

Peak Number 8 4-Methylpentyl pentanoate Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.597	4.67 ppbv	501113	Chlorobenzene-d5	8.879

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4-Methylpentyl pentanoate	186	C11H22O2	035852-47-2	64
2	Hexane, 2,4-dimethyl-	114	C8H18	000589-43-5	58
3	Dodecane, 5-methyl-	184	C13H28	017453-93-9	53
4	Hexane, 1,1'-oxybis-	186	C12H26O	000112-58-3	53
5	Hexane, 1,1'-oxybis-	186	C12H26O	000112-58-3	53





Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042372.D
Acq On : 17 Apr 2025 23:26
Operator : SY/MD
Sample : Q1726-07
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025

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

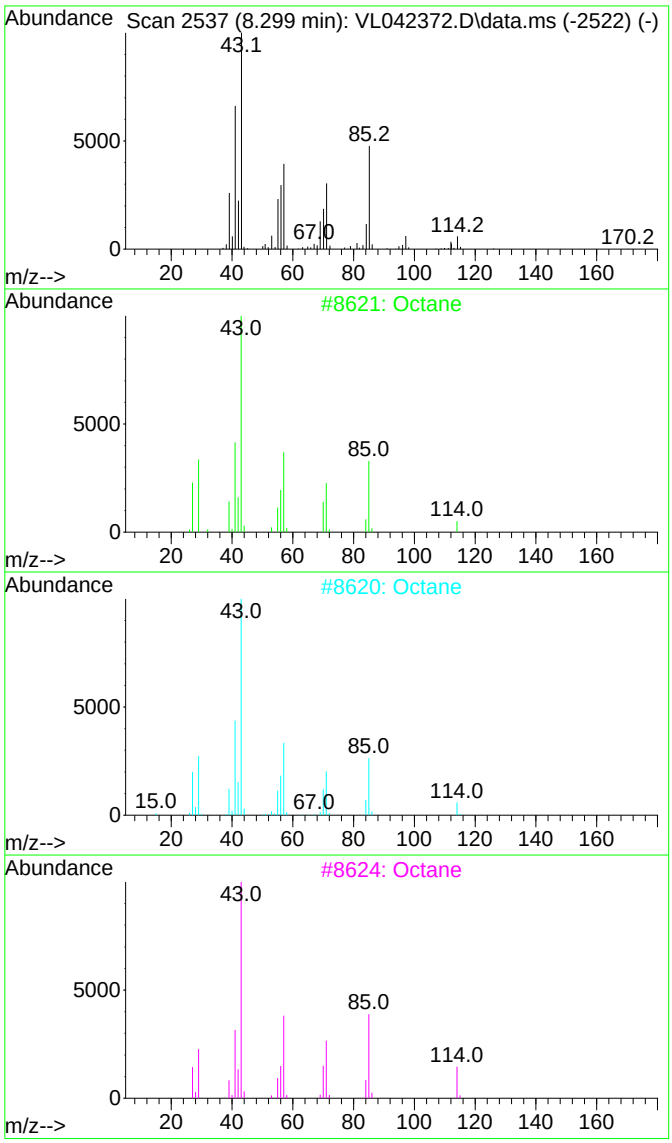
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

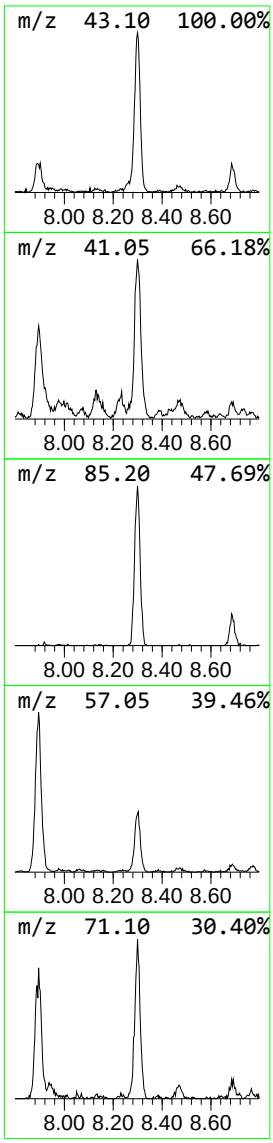
****

Peak Number 9 Octane Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.299	5.11 ppbv	548237	Chlorobenzene-d5	8.879

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octane	114	C8H18	000111-65-9	87
2	Octane	114	C8H18	000111-65-9	74
3	Octane	114	C8H18	000111-65-9	64
4	Heptane, 2,3-dimethyl-	128	C9H20	003074-71-3	64
5	Heptane, 2,4-dimethyl-	128	C9H20	002213-23-2	53





Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042372.D
Acq On : 17 Apr 2025 23:26
Operator : SY/MD
Sample : Q1726-07
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025

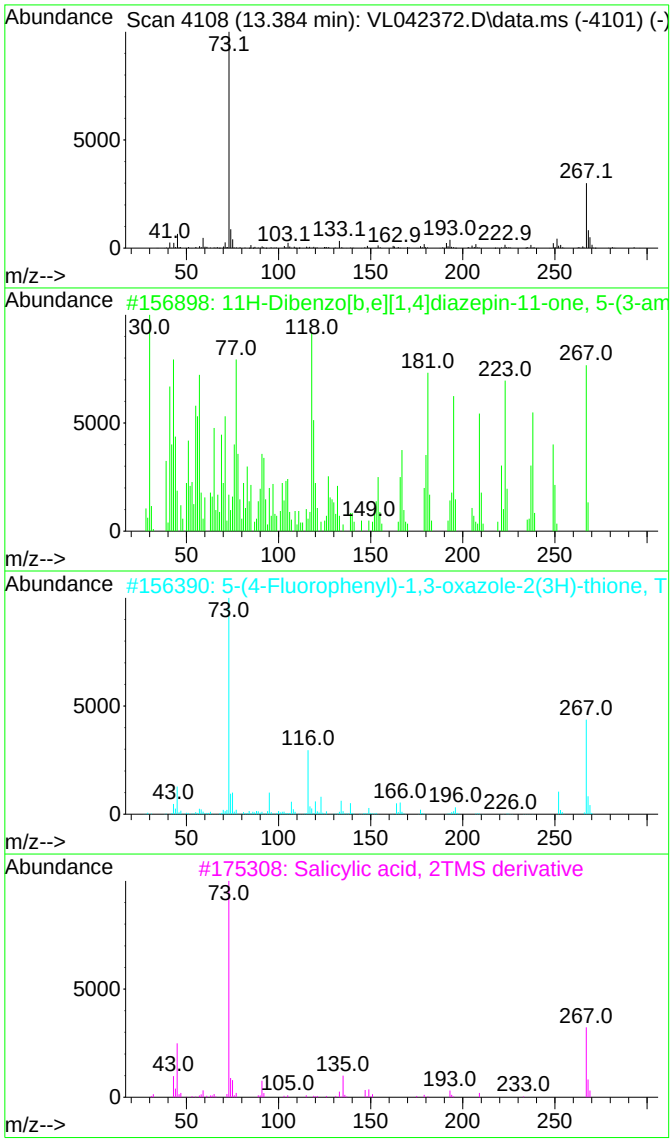
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

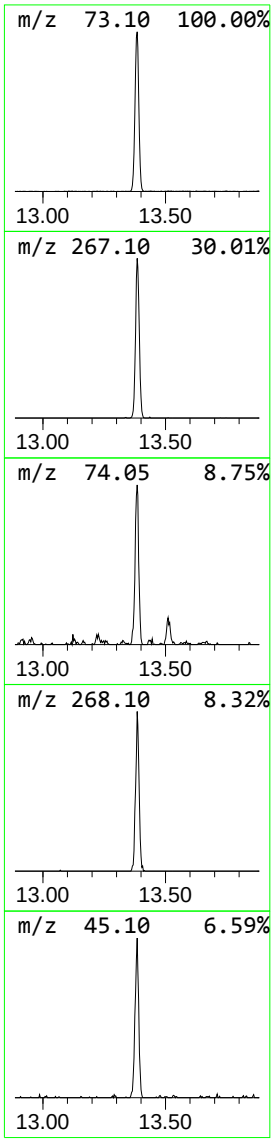
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 10 11H-Dibenzo[b,e][1,4]diazep... Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.384	4.32 ppbv	463895	Chlorobenzene-d5	8.879

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Dibenzo[b,e][1,4]diazepin-11...	267	C16H17N3O	013450-73-2	94
2	5-(4-Fluorophenyl)-1,3-oxazole-2...	267	C12H14FNOSSi	1000497-07-6	50
3	Salicylic acid, 2TMS derivative	282	C13H22O3Si2	003789-85-3	45
4	Salicylic acid, 2TMS derivative	282	C13H22O3Si2	003789-85-3	45
5	Salicylic acid, 2TMS derivative	282	C13H22O3Si2	003789-85-3	45





Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042372.D
Acq On : 17 Apr 2025 23:26
Operator : SY/MD
Sample : Q1726-07
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025

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
Butane	1.619	8.8	ppbv	370310	1	2.787	418293	10.0
1-Propanol	2.273	5.0	ppbv	208922	1	2.787	418293	10.0
Pentane, 2-methyl-	2.473	4.1	ppbv	172311	1	2.787	418293	10.0
Hexane, 2-methyl-	4.050	5.4	ppbv	456330	2	3.956	850976	10.0
Hexane, 3-methyl-	4.266	5.8	ppbv	495297	2	3.956	850976	10.0
Cyclohexane, me...	5.661	5.0	ppbv	424241	2	3.956	850976	10.0
Pentane, 2,3,4-...	6.823	7.1	ppbv	763726	3	8.879	1073720	10.0
4-Methylpentyl ...	7.597	4.7	ppbv	501113	3	8.879	1073720	10.0
Octane	8.299	5.1	ppbv	548237	3	8.879	1073720	10.0
11H-Dibenzo[b,e...	13.384	4.3	ppbv	463895	3	8.879	1073720	10.0

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

Report of Analysis

Client:	Woodard & Curran	Date Collected:	04/01/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	IA-B2-4-03312025DL	SDG No.:	Q1726
Lab Sample ID:	Q1726-07DL	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
VL042373.D	20		04/17/25 23:57	VL041725

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	4.20	20.8	UD	20.8	49.5	ug/m3
64-17-5	Ethanol	380	716	EDQ	12.1	18.8	ug/m3
74-87-3	Chloromethane	2.00	4.13	UD	4.13	20.6	ug/m3
75-01-4	Vinyl Chloride	0.28	0.72	UD	0.72	1.53	ug/m3
74-83-9	Bromomethane	2.80	10.9	UD	10.9	38.8	ug/m3
75-00-3	Chloroethane	3.40	8.97	UD	8.97	26.4	ug/m3
109-99-9	Tetrahydrofuran	2.60	7.67	UD	7.67	29.5	ug/m3
75-69-4	Trichlorofluoromethane	3.20	18.0	UD	18.0	56.2	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	3.20	24.5	UD	24.5	76.7	ug/m3
76-14-2	Dichlorotetrafluoroethane	1.80	12.6	UD	12.6	69.9	ug/m3
593-60-2	Bromoethene	2.40	10.5	UD	10.5	43.7	ug/m3
75-65-0	tert-Butyl alcohol	3.80	11.5	UD	11.5	30.3	ug/m3
142-82-5	Heptane	5.10	20.9	JD	9.02	41.0	ug/m3
67-63-0	Isopropyl Alcohol	37.9	93.2	D	3.44	24.6	ug/m3
75-35-4	1,1-Dichloroethene	2.80	11.1	UD	11.1	39.6	ug/m3
67-64-1	Acetone	590	1400	ED	11.4	23.8	ug/m3
75-15-0	Carbon Disulfide	3.20	9.97	UD	9.97	31.1	ug/m3
1634-04-4	Methyl tert-Butyl Ether	2.40	8.65	UD	8.65	36.0	ug/m3
75-09-2	Methylene Chloride	3.80	13.2	UD	13.2	34.7	ug/m3
156-60-5	trans-1,2-Dichloroethene	3.80	15.1	UD	15.1	39.6	ug/m3
75-34-3	1,1-Dichloroethane	2.60	10.5	UD	10.5	40.5	ug/m3
110-82-7	Cyclohexane	4.40	15.2	UD	15.2	34.4	ug/m3
78-93-3	2-Butanone	2.40	7.08	UD	7.08	29.5	ug/m3
56-23-5	Carbon Tetrachloride	0.22	1.38	UD	1.38	3.77	ug/m3
156-59-2	cis-1,2-Dichloroethene	1.80	7.14	UD	7.14	39.6	ug/m3
67-66-3	Chloroform	1.70	8.30	UD	8.30	48.8	ug/m3
71-55-6	1,1,1-Trichloroethane	0.19	1.04	UD	1.04	3.27	ug/m3
540-84-1	2,2,4-Trimethylpentane	10.9	50.9	D	9.34	46.7	ug/m3
71-43-2	Benzene	1.70	5.43	UD	5.43	31.9	ug/m3
107-06-2	1,2-Dichloroethane	1.80	7.29	UD	7.29	40.5	ug/m3
79-01-6	Trichloroethene	0.34	1.83	UD	1.83	3.22	ug/m3
78-87-5	1,2-Dichloropropane	2.20	10.2	UD	10.2	46.2	ug/m3
75-27-4	Bromodichloromethane	1.50	10.1	UD	10.1	67.0	ug/m3
108-10-1	4-Methyl-2-Pentanone	1.90	7.79	UD	7.79	41.0	ug/m3
108-88-3	Toluene	27.3	103	D	8.29	37.7	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:	04/01/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	IA-B2-4-03312025DL	SDG No.:	Q1726
Lab Sample ID:	Q1726-07DL	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
VL042373.D	20		04/17/25 23:57	VL041725

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	1.20	5.45	UD	5.45	45.4	ug/m3
10061-01-5	cis-1,3-Dichloropropene	1.30	5.90	UD	5.90	45.4	ug/m3
79-00-5	1,1,2-Trichloroethane	1.40	7.64	UD	7.64	54.6	ug/m3
124-48-1	Dibromochloromethane	1.30	11.1	UD	11.1	85.2	ug/m3
106-93-4	1,2-Dibromoethane	1.40	10.8	UD	10.8	15.4	ug/m3
127-18-4	Tetrachloroethene	0.30	2.03	UD	2.03	4.07	ug/m3
108-90-7	Chlorobenzene	1.50	6.91	UD	6.91	46.0	ug/m3
100-41-4	Ethyl Benzene	5.10	22.1	JD	10.4	43.4	ug/m3
179601-23-1	m/p-Xylene	17.7	76.9	JD	18.2	86.9	ug/m3
95-47-6	o-Xylene	6.80	29.5	JD	10.4	43.4	ug/m3
100-42-5	Styrene	2.20	9.37	UD	9.37	42.6	ug/m3
75-25-2	Bromoform	1.10	11.4	UD	11.4	103	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	0.22	1.51	UD	1.51	4.12	ug/m3
95-49-8	2-Chlorotoluene	2.20	11.4	UD	11.4	51.8	ug/m3
108-67-8	1,3,5-Trimethylbenzene	3.60	17.7	JD	10.8	49.2	ug/m3
95-63-6	1,2,4-Trimethylbenzene	9.40	46.2	JD	7.87	49.2	ug/m3
541-73-1	1,3-Dichlorobenzene	1.60	9.62	UD	9.62	60.1	ug/m3
106-46-7	1,4-Dichlorobenzene	1.10	6.61	UD	6.61	60.1	ug/m3
95-50-1	1,2-Dichlorobenzene	1.50	9.02	UD	9.02	60.1	ug/m3
120-82-1	1,2,4-Trichlorobenzene	1.70	12.6	UD	12.6	74.2	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	1.70	18.1	UD	18.1	107	ug/m3
106-99-0	1,3-Butadiene	2.60	5.75	UD	5.75	22.1	ug/m3
91-20-3	Naphthalene	1.50	7.86	UD	7.86	10.5	ug/m3
622-96-8	4-Ethyltoluene	2.60	12.8	JD	11.8	49.2	ug/m3
110-54-3	Hexane	2.20	7.75	UD	7.75	35.2	ug/m3
107-05-1	Allyl Chloride	3.00	9.39	UD	9.39	31.3	ug/m3
123-91-1	1,4-Dioxane	4.20	15.1	UD	15.1	36.0	ug/m3
80-62-6	Methyl Methacrylate	1.70	6.96	UD	6.96	41.0	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	108000		2.784			
540-36-3	1,4-Difluorobenzene	303000		3.952			
3114-55-4	Chlorobenzene-d5	266000		8.875			

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

Report of Analysis

Client:	Woodard & Curran	Date Collected:	04/01/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	IA-B2-4-03312025DL	SDG No.:	Q1726
Lab Sample ID:	Q1726-07DL	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
VL042373.D	20		04/17/25 23:57	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 : VL042373.D
Acq On : 17 Apr 2025 23:57
Operator : SY/MD
Sample : Q1726-07DL 20X
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 18 02:47:24 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-B2-4-03312025DL

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	107602	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.952	114	303479	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.875	117	266154	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.374	95	220060	10.062	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 100.600%				
Target Compounds							Qvalue
9) Propene	1.486	41	1529m	0.185	ppbv		
10) Heptane	4.972	43	5885m	0.254	ppbv		
13) Ethanol	1.719	45	24762	18.897	ppbv		74
15) Acetone	1.832	43	515571	29.269	ppbv		99
19) Isopropyl Alcohol	1.884	45	18557	1.896	ppbv	#	1
44) 2,2,4-Trimethylpentane	4.639	57	30736m	0.544	ppbv		
53) Toluene	6.927	91	53637	1.365	ppbv		97
58) Ethyl Benzene	9.348	91	13474	0.256	ppbv		99
59) m/p-Xylene	9.529	91	37603m	0.885	ppbv		
60) o-Xylene	9.960	91	14506	0.339	ppbv		98
72) 4-Ethyltoluene	11.122	105	6684	0.128	ppbv	#	56
73) 1,3,5-Trimethylbenzene	11.199	105	8296	0.180	ppbv		95
74) 1,2,4-Trimethylbenzene	11.536	105	25240	0.468	ppbv	#	62

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

Quantitation Report (QT Reviewed)

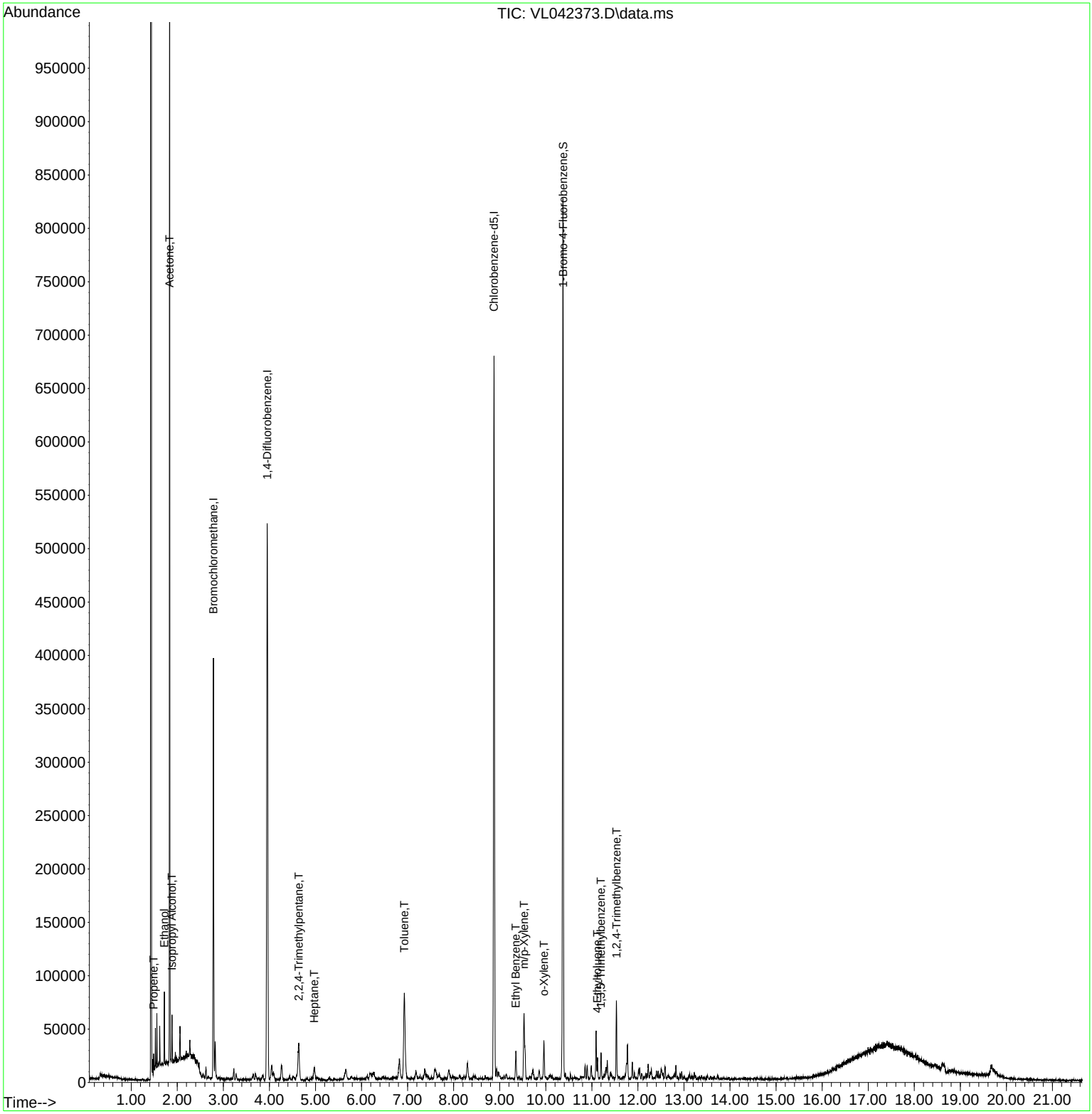
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042373.D
Acq On : 17 Apr 2025 23:57
Operator : SY/MD
Sample : Q1726-07DL 20X
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

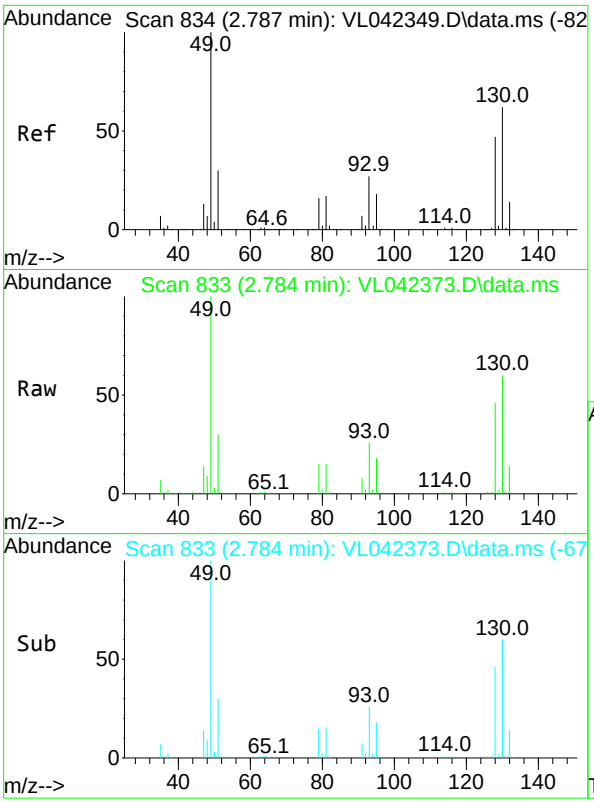
Quant Time: Apr 18 02:47:24 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025DL

Manual Integrations APPROVED

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

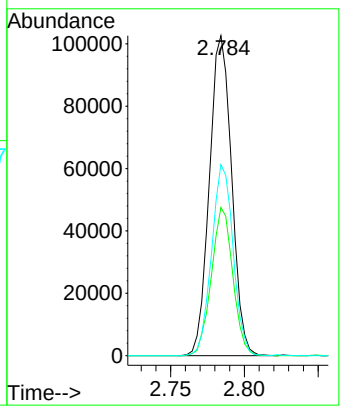




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 8
Delta R.T. -0.003 min
Lab File: VL042373.D
Acq: 17 Apr 2025 23:57

Tgt Ion: 49 Resp: 10760

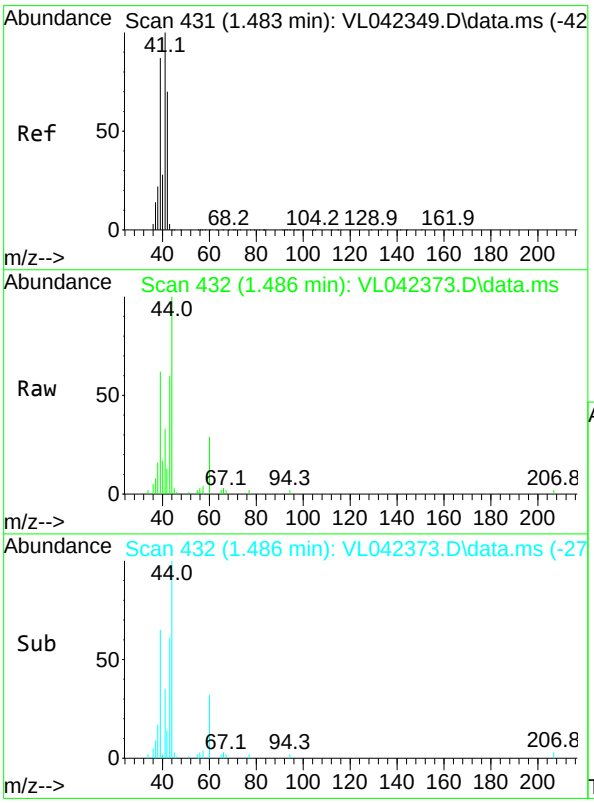
Ion	Ratio	Lower	Upper
49	100		
128	44.6	22.8	68.4
130	58.0	29.3	88.0



Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025DL

Manual Integrations
APPROVED

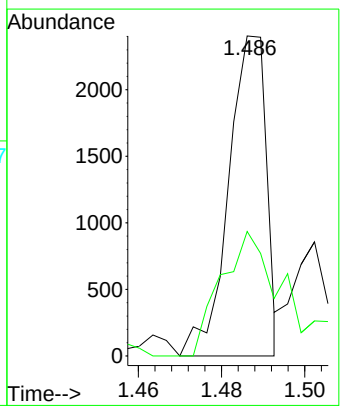
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

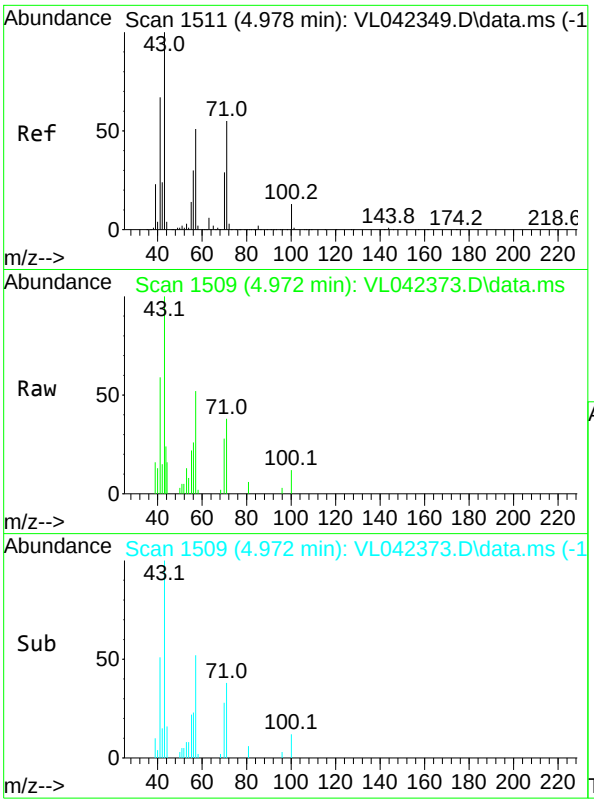


#9
Propene
Concen: 0.185 ppbv m
RT: 1.486 min Scan# 432
Delta R.T. 0.004 min
Lab File: VL042373.D
Acq: 17 Apr 2025 23:57

Tgt Ion: 41 Resp: 1529

Ion	Ratio	Lower	Upper
41	100		
42	228.9	56.2	84.4#

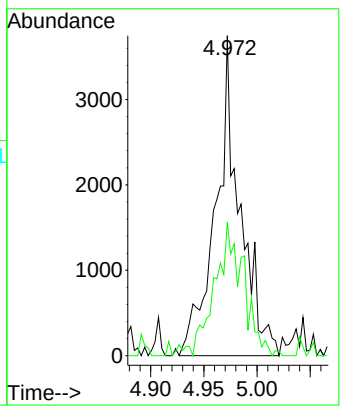




#10
Heptane
Concen: 0.254 ppbv m
RT: 4.972 min Scan# 1
Delta R.T. -0.006 min
Lab File: VL042373.D
Acq: 17 Apr 2025 23:57

Tgt Ion: 43 Resp: 588

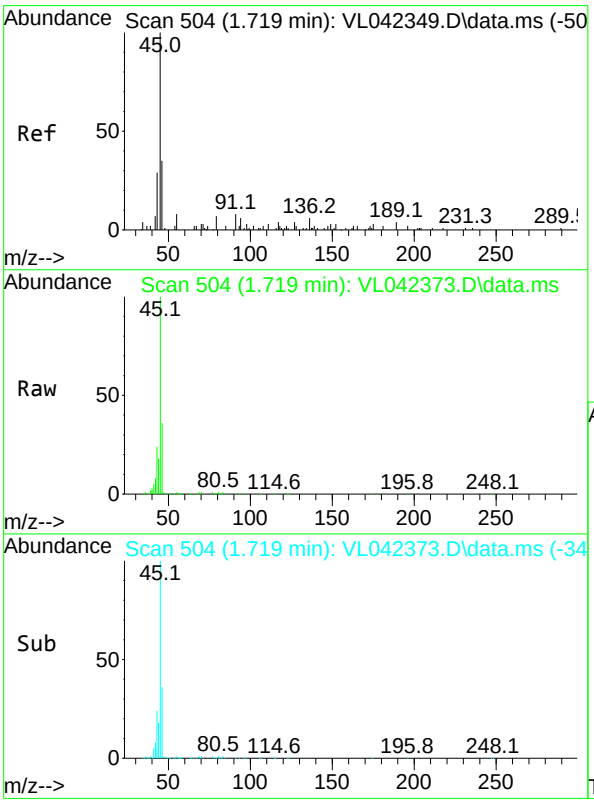
Ion	Ratio	Lower	Upper
43	100		
57	50.8	39.9	59.9



Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025DL

Manual Integrations
APPROVED

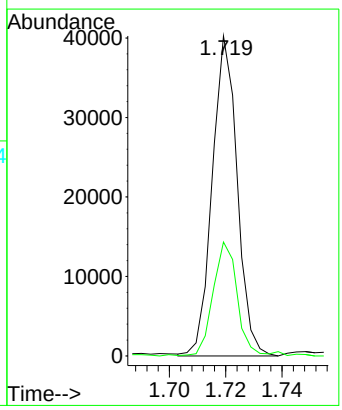
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

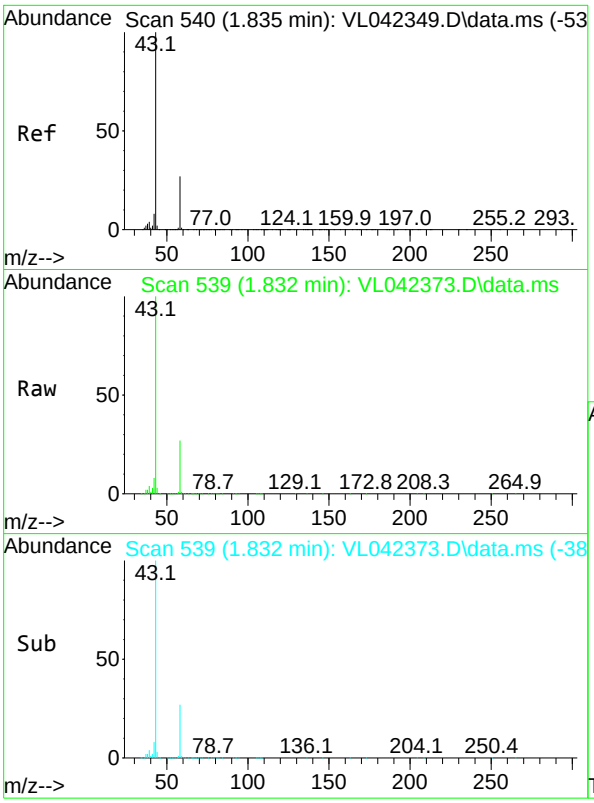


#13
Ethanol
Concen: 18.897 ppbv
RT: 1.719 min Scan# 504
Delta R.T. 0.000 min
Lab File: VL042373.D
Acq: 17 Apr 2025 23:57

Tgt Ion: 45 Resp: 24762

Ion	Ratio	Lower	Upper
45	100		
46	35.9	21.9	87.7

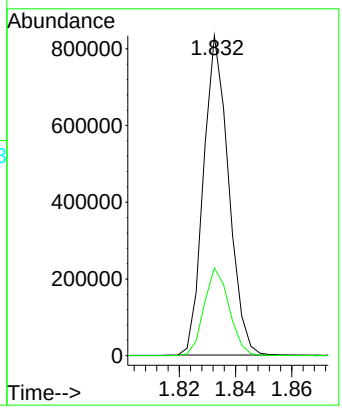




#15
Acetone
Concen: 29.269 ppbv
RT: 1.832 min Scan# 5
Delta R.T. -0.003 min
Lab File: VL042373.D
Acq: 17 Apr 2025 23:57

Tgt Ion: 43 Resp: 51557

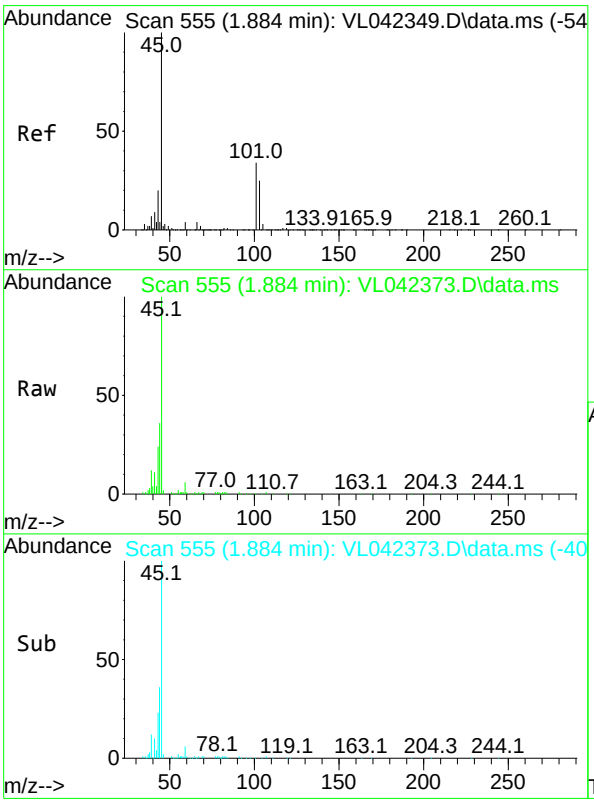
Ion	Ratio	Lower	Upper
43	100		
58	27.6	22.4	33.6



Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025DL

Manual Integrations
APPROVED

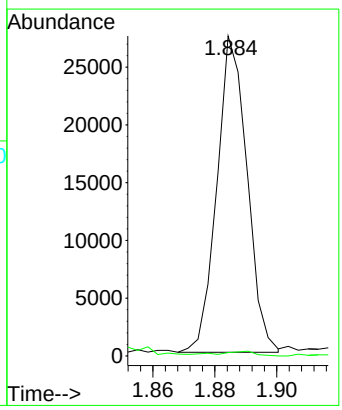
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

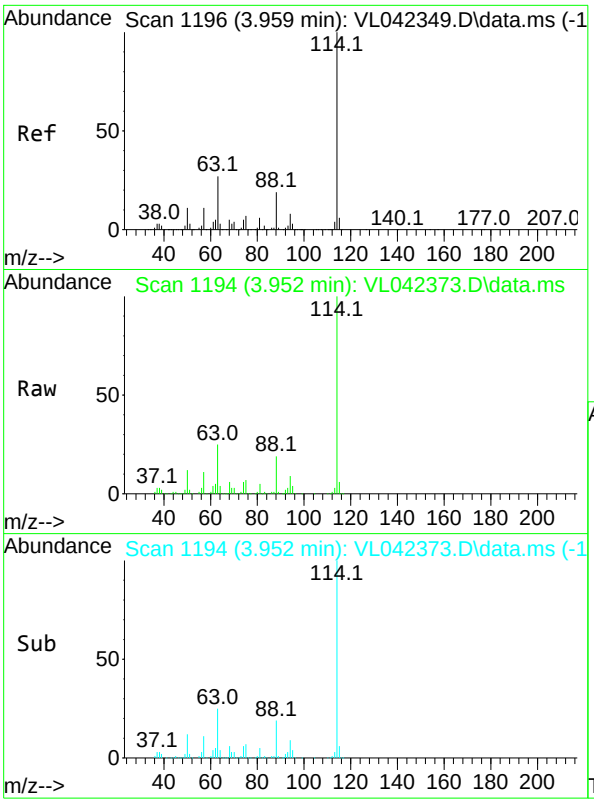


#19
Isopropyl Alcohol
Concen: 1.896 ppbv
RT: 1.884 min Scan# 555
Delta R.T. 0.000 min
Lab File: VL042373.D
Acq: 17 Apr 2025 23:57

Tgt Ion: 45 Resp: 18557

Ion	Ratio	Lower	Upper
45	100		
58	767.1	34.5	51.7#

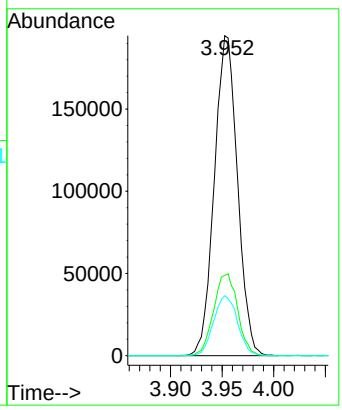




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.952 min Scan# 1
Delta R.T. -0.006 min
Lab File: VL042373.D
Acq: 17 Apr 2025 23:57

Tgt Ion:114 Resp: 30347

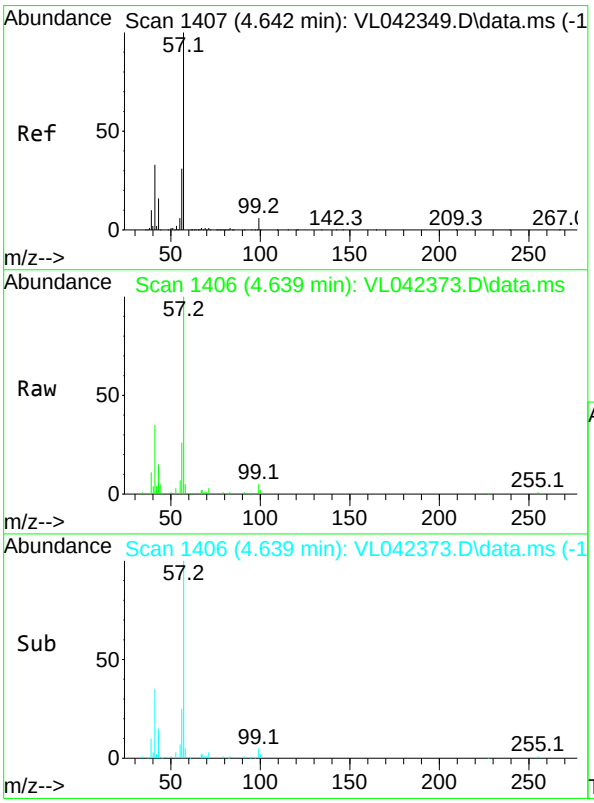
Ion	Ratio	Lower	Upper
114	100		
63	26.5	21.8	32.6
88	19.4	15.5	23.3



Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025DL

Manual Integrations
APPROVED

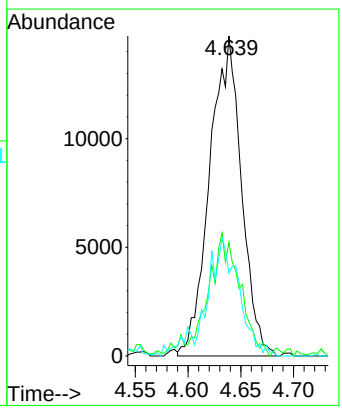
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

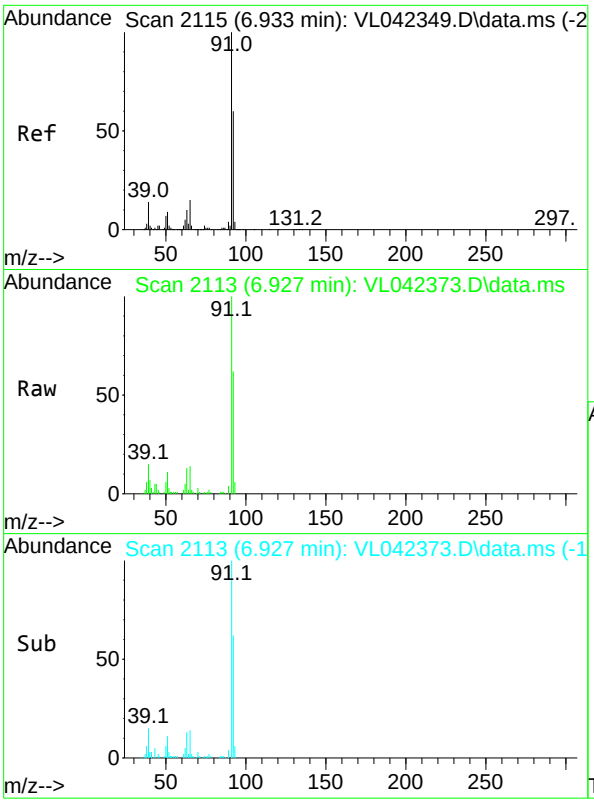


#44
2,2,4-Trimethylpentane
Concen: 0.544 ppbv m
RT: 4.639 min Scan# 1406
Delta R.T. -0.003 min
Lab File: VL042373.D
Acq: 17 Apr 2025 23:57

Tgt Ion: 57 Resp: 30736

Ion	Ratio	Lower	Upper
57	100		
41	39.9	27.2	40.8
56	38.4	25.7	38.5

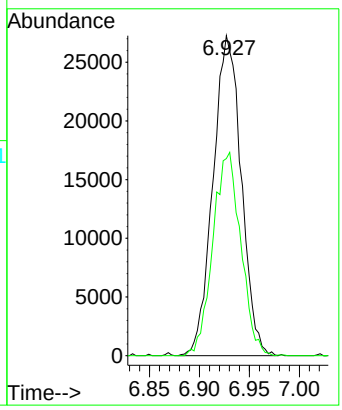




#53
Toluene
Concen: 1.365 ppbv
RT: 6.927 min Scan# 21
Delta R.T. -0.006 min
Lab File: VL042373.D
Acq: 17 Apr 2025 23:57

Tgt Ion: 91 Resp: 5363

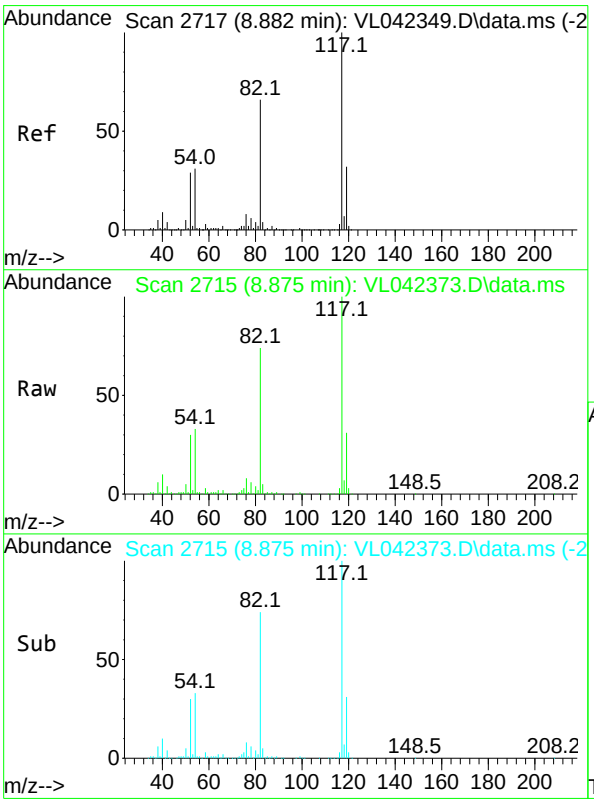
Ion	Ratio	Lower	Upper
91	100		
92	62.9	48.2	72.4



Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025DL

Manual Integrations
APPROVED

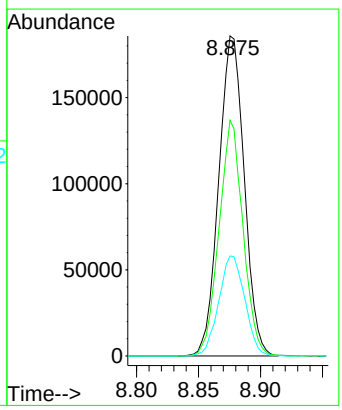
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

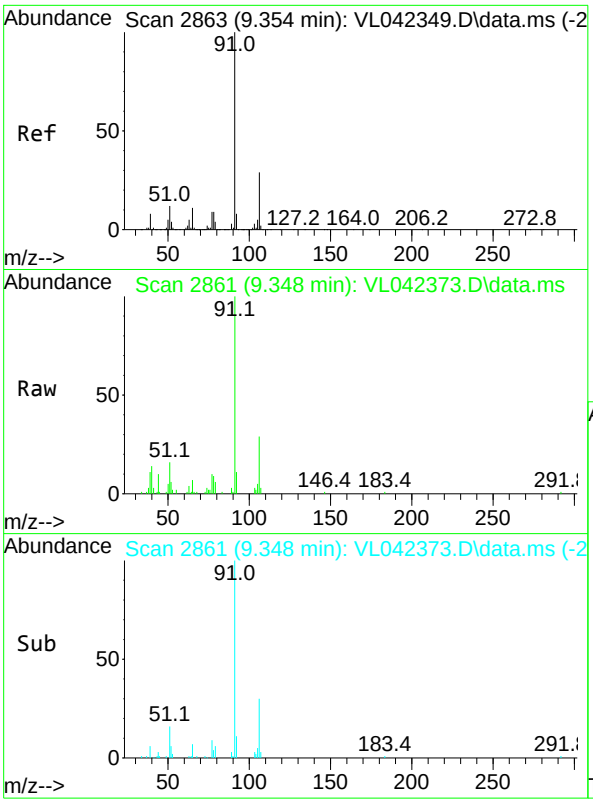


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 2715
Delta R.T. -0.006 min
Lab File: VL042373.D
Acq: 17 Apr 2025 23:57

Tgt Ion:117 Resp: 266154

Ion	Ratio	Lower	Upper
117	100		
82	69.4	57.8	86.6
119	32.1	25.2	37.8





#58
Ethyl Benzene
Concen: 0.256 ppbv
RT: 9.348 min Scan# 2
Delta R.T. -0.006 min
Lab File: VL042373.D
Acq: 17 Apr 2025 23:57

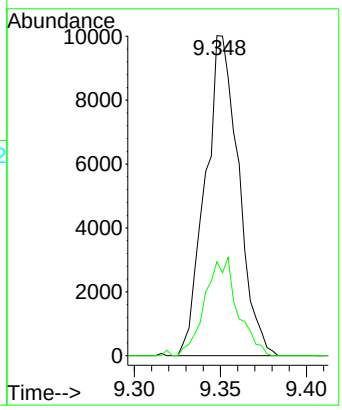
Tgt Ion: 91 Resp: 1347

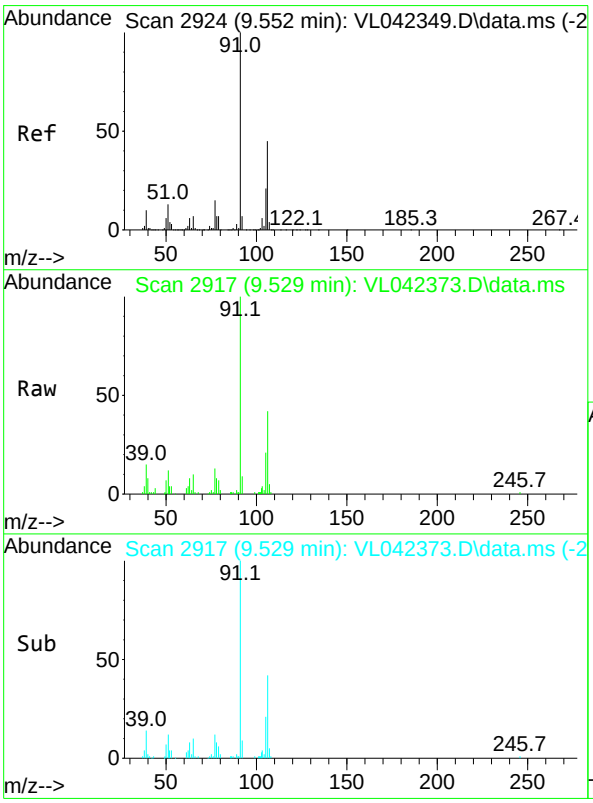
Ion	Ratio	Lower	Upper
91	100		
106	29.4	23.0	34.4

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025DL

Manual Integrations
APPROVED

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

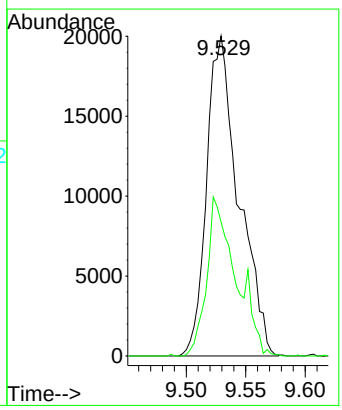


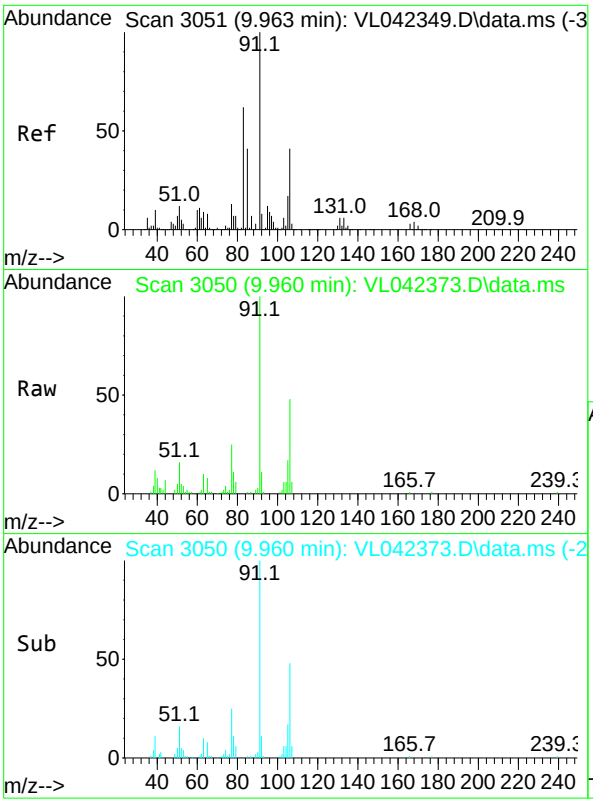


#59
m/p-Xylene
Concen: 0.885 ppbv m
RT: 9.529 min Scan# 2917
Delta R.T. -0.022 min
Lab File: VL042373.D
Acq: 17 Apr 2025 23:57

Tgt Ion: 91 Resp: 37603

Ion	Ratio	Lower	Upper
91	100		
106	45.1	35.4	53.2

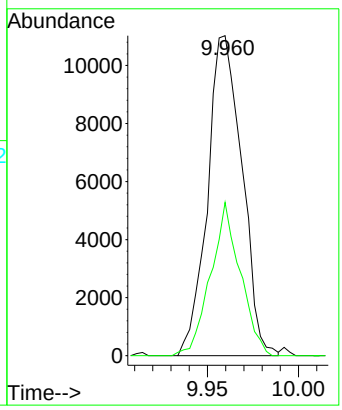




#60
o-Xylene
Concen: 0.339 ppbv
RT: 9.960 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042373.D
Acq: 17 Apr 2025 23:57

Tgt Ion: 91 Resp: 1450

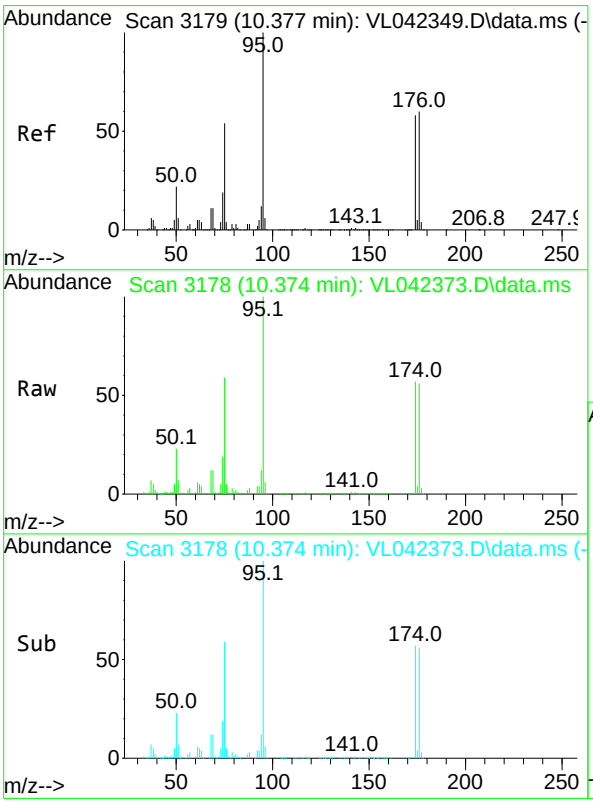
Ion	Ratio	Lower	Upper
91	100		
106	41.3	21.1	63.4



Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025DL

Manual Integrations
APPROVED

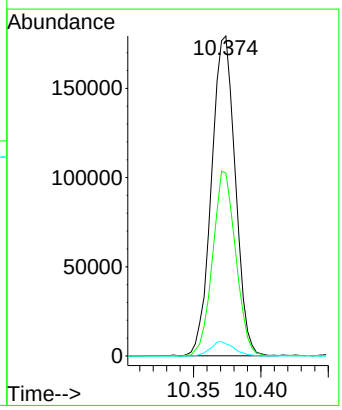
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

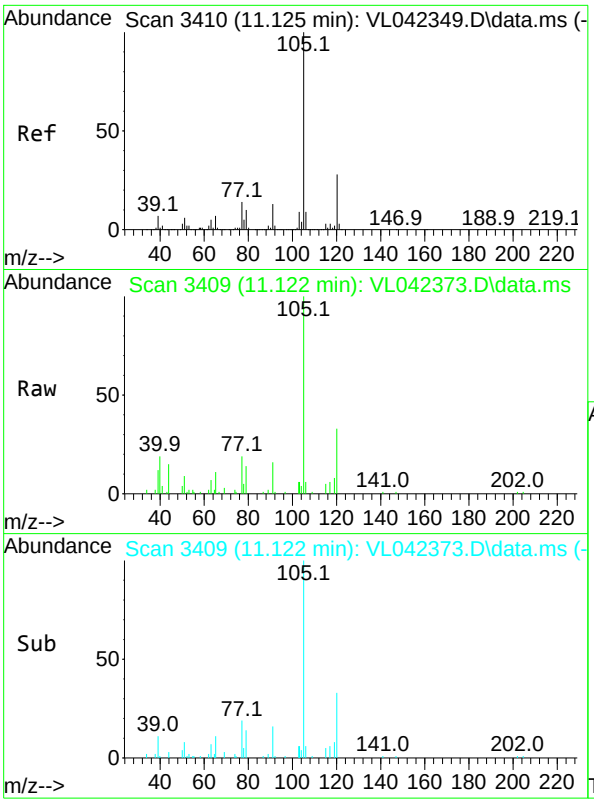


#68
1-Bromo-4-Fluorobenzene
Concen: 10.062 ppbv
RT: 10.374 min Scan# 3178
Delta R.T. -0.003 min
Lab File: VL042373.D
Acq: 17 Apr 2025 23:57

Tgt Ion: 95 Resp: 220060

Ion	Ratio	Lower	Upper
95	100		
174	56.3	48.5	72.7
175	4.4	3.7	5.5

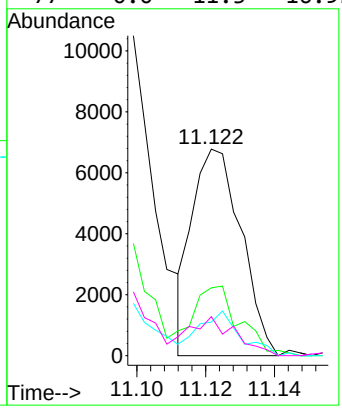




#72
4-Ethyltoluene
Concen: 0.128 ppbv
RT: 11.122 min Scan# 34
Delta R.T. -0.003 min
Lab File: VL042373.D
Acq: 17 Apr 2025 23:57

Tgt Ion:105 Resp: 668

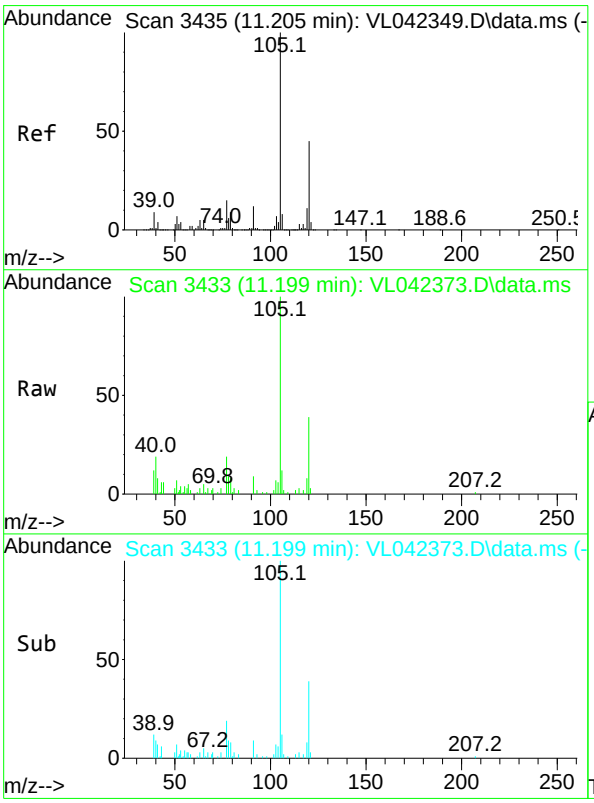
Ion	Ratio	Lower	Upper
105	100		
120	0.0	23.2	34.8#
91	0.0	10.4	15.6#
77	0.0	11.3	16.9#



Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025DL

Manual Integrations
APPROVED

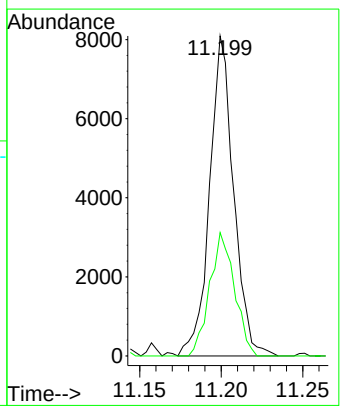
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

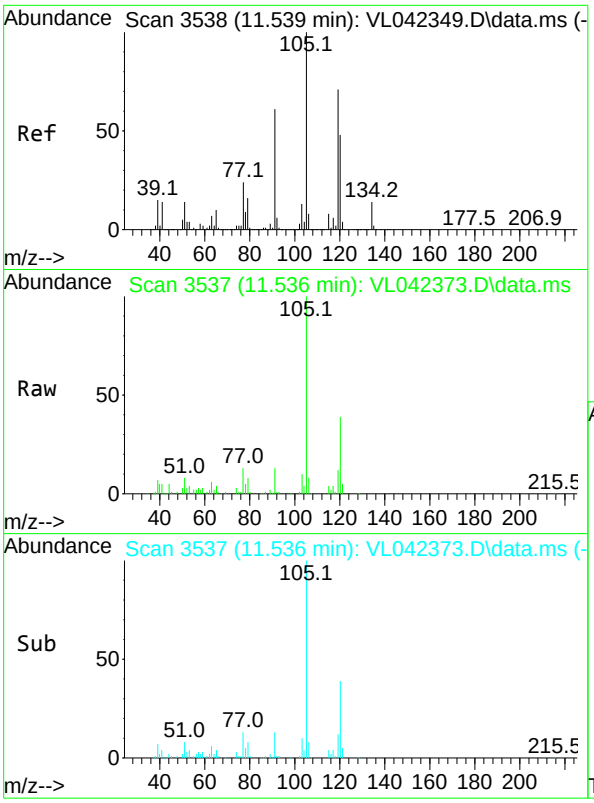


#73
1,3,5-Trimethylbenzene
Concen: 0.180 ppbv
RT: 11.199 min Scan# 3433
Delta R.T. -0.006 min
Lab File: VL042373.D
Acq: 17 Apr 2025 23:57

Tgt Ion:105 Resp: 8296

Ion	Ratio	Lower	Upper
105	100		
120	41.5	35.6	53.4

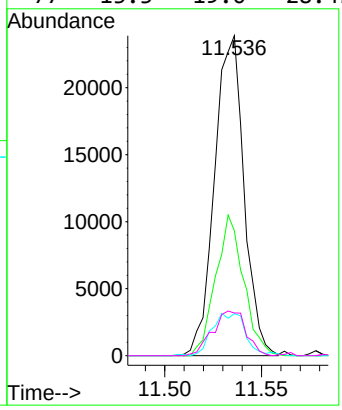




#74
1,2,4-Trimethylbenzene
Concen: 0.468 ppbv
RT: 11.536 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042373.D
Acq: 17 Apr 2025 23:57

Tgt Ion:105 Resp: 2524

Ion	Ratio	Lower	Upper
105	100		
120	38.8	38.1	57.1
91	12.8	48.8	73.2#
77	13.3	19.0	28.4#



Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025DL

Manual Integrations
APPROVED

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

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

Report of Analysis

Client:	Woodard & Curran	Date Collected:	04/01/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	IA-B2-4-03312025DL2	SDG No.:	Q1726
Lab Sample ID:	Q1726-07DL2	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
VL042386.D	40		04/18/25 12:09	VL041825

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	8.40	41.5	UD	41.5	98.9	ug/m3
64-17-5	Ethanol	270	509	DQ	24.1	37.7	ug/m3
74-87-3	Chloromethane	3.90	8.05	UD	8.05	41.3	ug/m3
75-01-4	Vinyl Chloride	0.56	1.43	UD	1.43	3.07	ug/m3
74-83-9	Bromomethane	5.60	21.7	UD	21.7	77.7	ug/m3
75-00-3	Chloroethane	6.80	17.9	UD	17.9	52.8	ug/m3
109-99-9	Tetrahydrofuran	5.20	15.3	UDQ	15.3	59.0	ug/m3
75-69-4	Trichlorofluoromethane	6.40	36.0	UD	36.0	112	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	6.40	49.0	UD	49.0	153	ug/m3
76-14-2	Dichlorotetrafluoroethane	3.50	24.5	UD	24.5	140	ug/m3
593-60-2	Bromoethene	4.80	21.0	UD	21.0	87.4	ug/m3
75-65-0	tert-Butyl alcohol	7.60	23.0	UD	23.0	60.6	ug/m3
142-82-5	Heptane	4.40	18.0	UDQ	18.0	82.0	ug/m3
67-63-0	Isopropyl Alcohol	29.6	72.8	D	6.88	49.2	ug/m3
75-35-4	1,1-Dichloroethene	5.60	22.2	UD	22.2	79.3	ug/m3
67-64-1	Acetone	470	1120	D	22.8	47.5	ug/m3
75-15-0	Carbon Disulfide	6.40	19.9	UD	19.9	62.3	ug/m3
1634-04-4	Methyl tert-Butyl Ether	4.80	17.3	UD	17.3	72.1	ug/m3
75-09-2	Methylene Chloride	7.60	26.4	UD	26.4	69.5	ug/m3
156-60-5	trans-1,2-Dichloroethene	7.60	30.1	UD	30.1	79.3	ug/m3
75-34-3	1,1-Dichloroethane	5.20	21.1	UD	21.1	81.0	ug/m3
110-82-7	Cyclohexane	8.80	30.3	UD	30.3	68.8	ug/m3
78-93-3	2-Butanone	4.80	14.2	UD	14.2	59.0	ug/m3
56-23-5	Carbon Tetrachloride	0.44	2.77	UD	2.77	7.55	ug/m3
156-59-2	cis-1,2-Dichloroethene	3.60	14.3	UD	14.3	79.3	ug/m3
67-66-3	Chloroform	3.30	16.1	UD	16.1	97.7	ug/m3
71-55-6	1,1,1-Trichloroethane	0.38	2.07	UD	2.07	6.55	ug/m3
540-84-1	2,2,4-Trimethylpentane	7.20	33.6	JD	18.7	93.4	ug/m3
71-43-2	Benzene	3.50	11.2	UD	11.2	63.9	ug/m3
107-06-2	1,2-Dichloroethane	3.60	14.6	UD	14.6	81.0	ug/m3
79-01-6	Trichloroethene	0.68	3.65	UD	3.65	6.45	ug/m3
78-87-5	1,2-Dichloropropane	4.40	20.3	UD	20.3	92.4	ug/m3
75-27-4	Bromodichloromethane	3.10	20.8	UD	20.8	134	ug/m3
108-10-1	4-Methyl-2-Pentanone	3.70	15.2	UD	15.2	82.0	ug/m3
108-88-3	Toluene	18.3	69.0	JD	16.6	75.4	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:	04/01/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	IA-B2-4-03312025DL2	SDG No.:	Q1726
Lab Sample ID:	Q1726-07DL2	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
VL042386.D	40		04/18/25 12:09	VL041825

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	2.40	10.9	UD	10.9	90.8	ug/m3
10061-01-5	cis-1,3-Dichloropropene	2.60	11.8	UD	11.8	90.8	ug/m3
79-00-5	1,1,2-Trichloroethane	2.80	15.3	UD	15.3	109	ug/m3
124-48-1	Dibromochloromethane	2.60	22.1	UD	22.1	170	ug/m3
106-93-4	1,2-Dibromoethane	2.90	22.3	UD	22.3	30.7	ug/m3
127-18-4	Tetrachloroethene	0.60	4.07	UD	4.07	8.14	ug/m3
108-90-7	Chlorobenzene	3.00	13.8	UD	13.8	92.1	ug/m3
100-41-4	Ethyl Benzene	4.80	20.9	UD	20.9	86.9	ug/m3
179601-23-1	m/p-Xylene	12.2	53.0	JD	36.5	174	ug/m3
95-47-6	o-Xylene	4.80	20.9	UD	20.9	86.9	ug/m3
100-42-5	Styrene	4.40	18.7	UD	18.7	85.2	ug/m3
75-25-2	Bromoform	2.30	23.8	UD	23.8	207	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	0.44	3.02	UD	3.02	8.24	ug/m3
95-49-8	2-Chlorotoluene	4.40	22.8	UD	22.8	104	ug/m3
108-67-8	1,3,5-Trimethylbenzene	4.40	21.6	UD	21.6	98.3	ug/m3
95-63-6	1,2,4-Trimethylbenzene	3.10	15.2	UD	15.2	98.3	ug/m3
541-73-1	1,3-Dichlorobenzene	3.20	19.2	UD	19.2	120	ug/m3
106-46-7	1,4-Dichlorobenzene	2.10	12.6	UD	12.6	120	ug/m3
95-50-1	1,2-Dichlorobenzene	3.00	18.0	UD	18.0	120	ug/m3
120-82-1	1,2,4-Trichlorobenzene	3.40	25.2	UD	25.2	148	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	3.40	36.3	UD	36.3	213	ug/m3
106-99-0	1,3-Butadiene	5.20	11.5	UD	11.5	44.3	ug/m3
91-20-3	Naphthalene	3.00	15.7	UD	15.7	21.0	ug/m3
622-96-8	4-Ethyltoluene	4.80	23.6	UD	23.6	98.3	ug/m3
110-54-3	Hexane	4.40	15.5	UD	15.5	70.5	ug/m3
107-05-1	Allyl Chloride	6.00	18.8	UD	18.8	62.6	ug/m3
123-91-1	1,4-Dioxane	8.40	30.3	UD	30.3	72.1	ug/m3
80-62-6	Methyl Methacrylate	3.40	13.9	UDQ	13.9	81.9	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	138000		2.787			
540-36-3	1,4-Difluorobenzene	425000		3.955			
3114-55-4	Chlorobenzene-d5	369000		8.878			

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

Report of Analysis

Client:	Woodard & Curran	Date Collected:	04/01/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	IA-B2-4-03312025DL2	SDG No.:	Q1726
Lab Sample ID:	Q1726-07DL2	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
VL042386.D	40		04/18/25 12:09	VL041825

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\VL041825\
Data File : VL042386.D
Acq On : 18 Apr 2025 12:09
Operator : SY/MD
Sample : Q1726-07DL2 40X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 18 22:57:29 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-B2-4-03312025DL2

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.787	49	137576	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.955	114	424572	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.878	117	368674	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.374	95	298684	9.859	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 98.600%				
Target Compounds							Qvalue
9) Propene	1.622	41	2578	0.245	ppbv		99
13) Ethanol	1.722	45	11275	6.730	ppbv		79
15) Acetone	1.835	43	264945	11.764	ppbv		100
19) Isopropyl Alcohol	1.887	45	9262	0.740	ppbv	#	1
44) 2,2,4-Trimethylpentane	4.638	57	14250	0.180	ppbv	#	88
53) Toluene	6.930	91	25162m	0.458	ppbv		
59) m/p-Xylene	9.529	91	17952m	0.305	ppbv		
60) o-Xylene	9.963	91	6838	0.115	ppbv		94

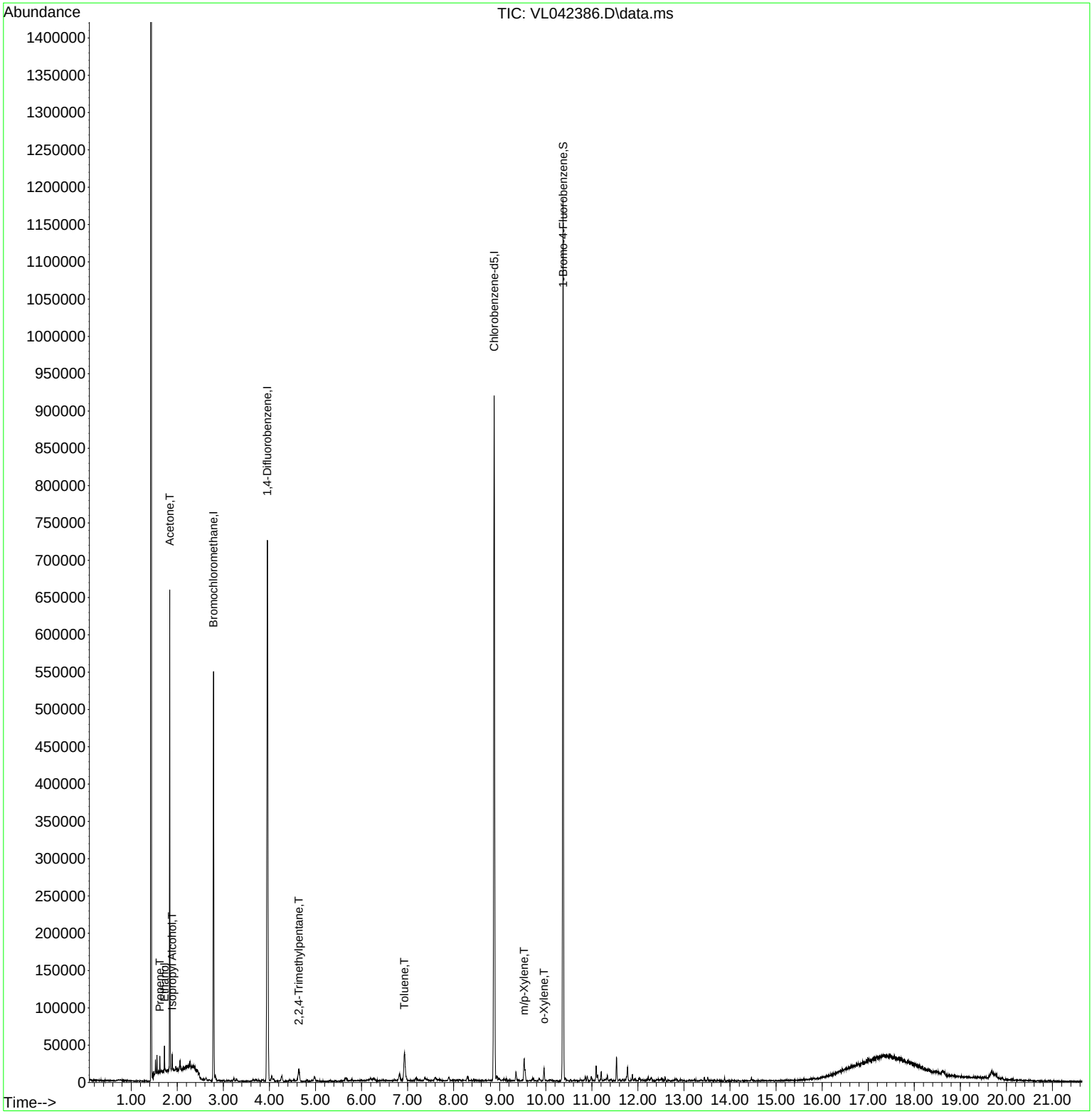
(#) = qualifier out of range (m) = manual integration (+) = signals summed

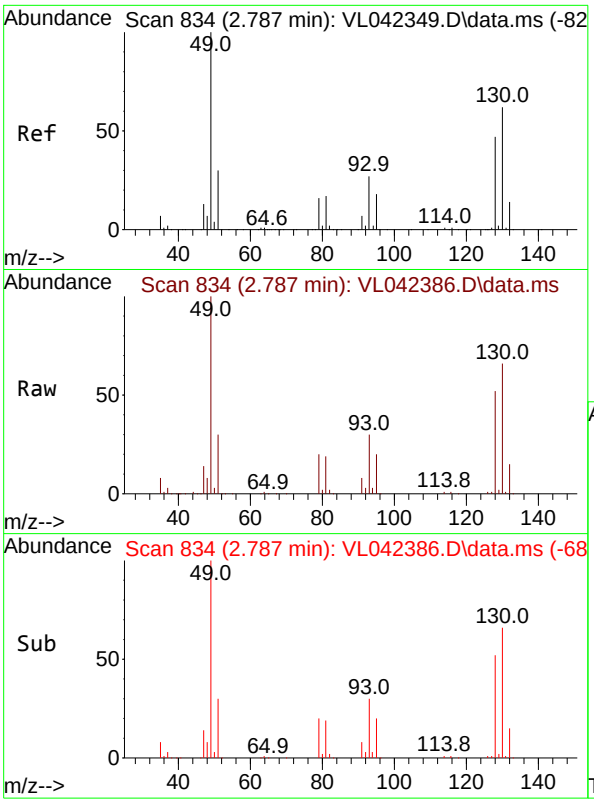
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041825\
Data File : VL042386.D
Acq On : 18 Apr 2025 12:09
Operator : SY/MD
Sample : Q1726-07DL2 40X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 18 22:57:29 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-B2-4-03312025DL2

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025

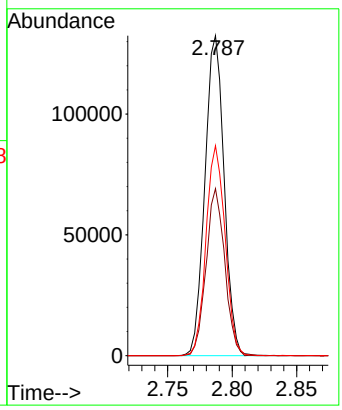




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 8
Delta R.T. 0.000 min
Lab File: VL042386.D
Acq: 18 Apr 2025 12:09

Tgt Ion: 49 Resp: 13757

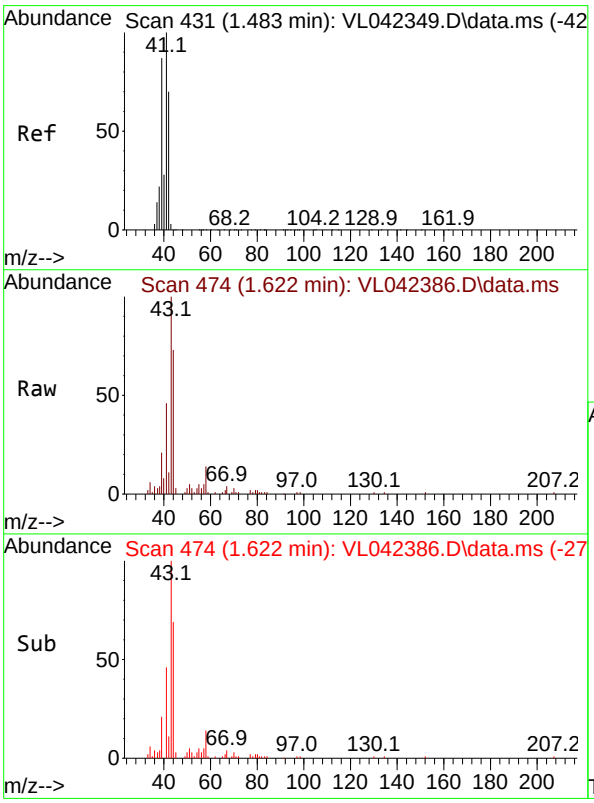
Ion	Ratio	Lower	Upper
49	100		
128	50.8	22.8	68.4
130	65.1	29.3	88.0



Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025DL2

Manual Integrations
APPROVED

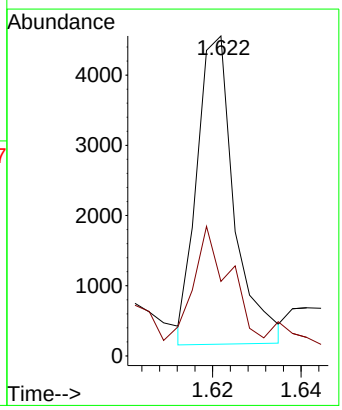
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025

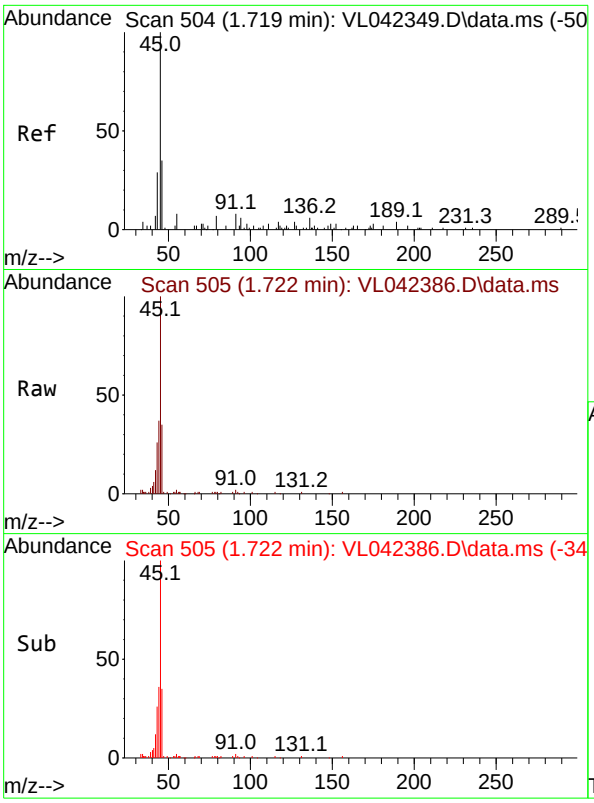


#9
Propene
Concen: 0.245 ppbv
RT: 1.622 min Scan# 474
Delta R.T. 0.139 min
Lab File: VL042386.D
Acq: 18 Apr 2025 12:09

Tgt Ion: 41 Resp: 2578

Ion	Ratio	Lower	Upper
41	100		
42	71.3	56.2	84.4

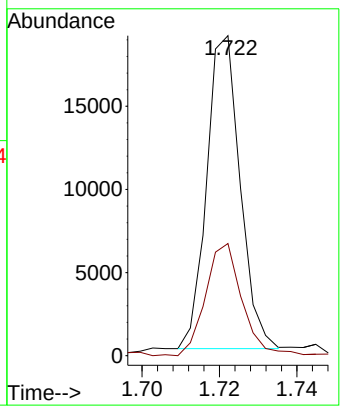




#13
Ethanol
Concen: 6.730 ppbv
RT: 1.722 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042386.D
Acq: 18 Apr 2025 12:09

Tgt Ion: 45 Resp: 1127

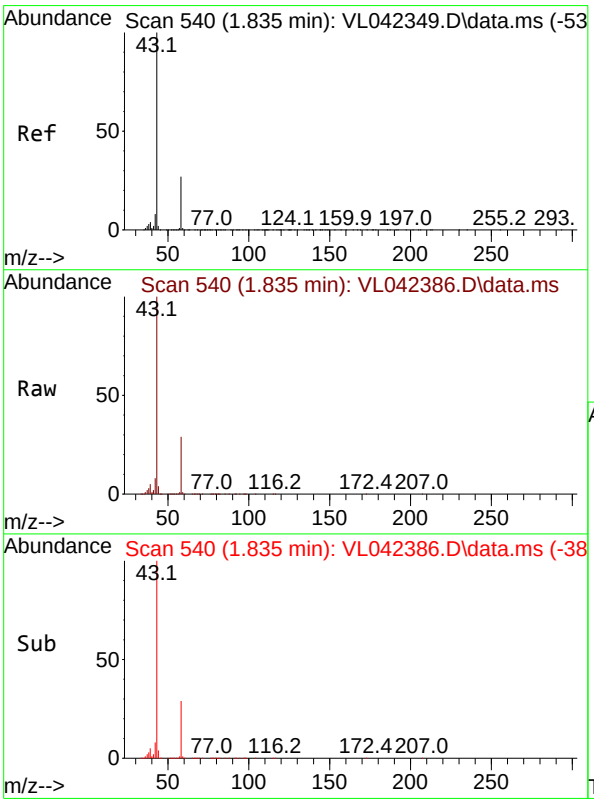
Ion	Ratio	Lower	Upper
45	100		
46	39.6	21.9	87.7



Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025DL2

Manual Integrations
APPROVED

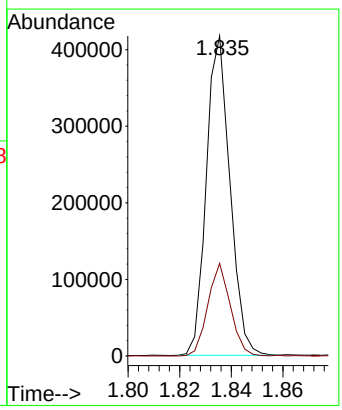
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025

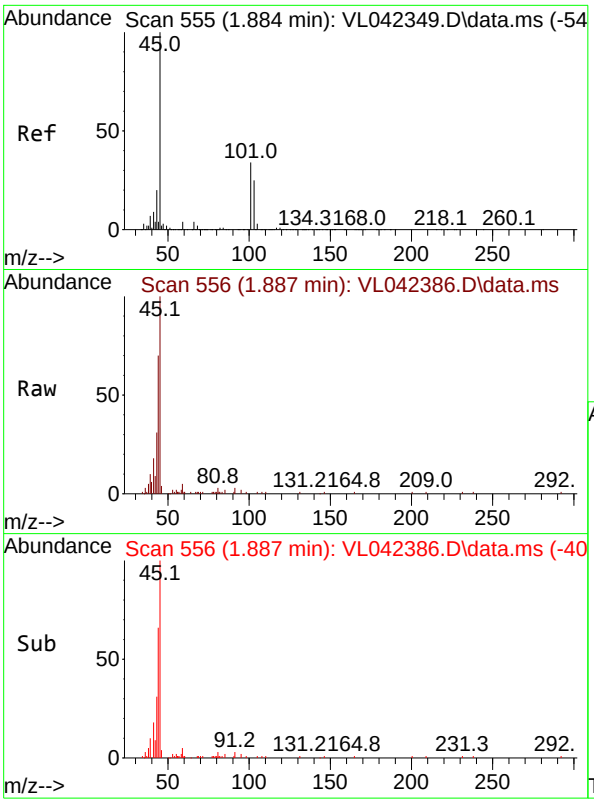


#15
Acetone
Concen: 11.764 ppbv
RT: 1.835 min Scan# 540
Delta R.T. 0.000 min
Lab File: VL042386.D
Acq: 18 Apr 2025 12:09

Tgt Ion: 43 Resp: 264945

Ion	Ratio	Lower	Upper
43	100		
58	27.9	22.4	33.6





#19
Isopropyl Alcohol
Concen: 0.740 ppbv
RT: 1.887 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042386.D
Acq: 18 Apr 2025 12:09

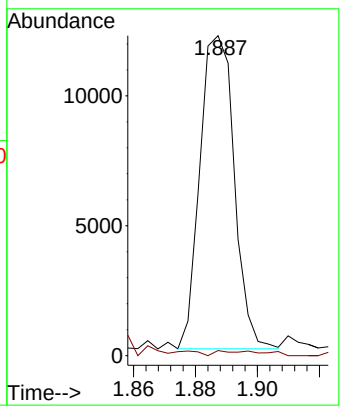
Tgt Ion: 45 Resp: 926

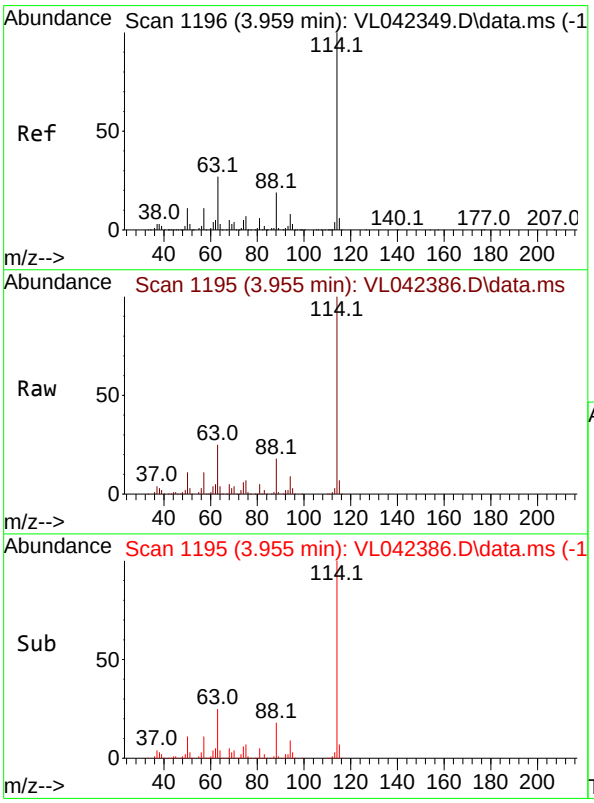
Ion	Ratio	Lower	Upper
45	100		
58	797.3	34.5	51.7#

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025DL2

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025

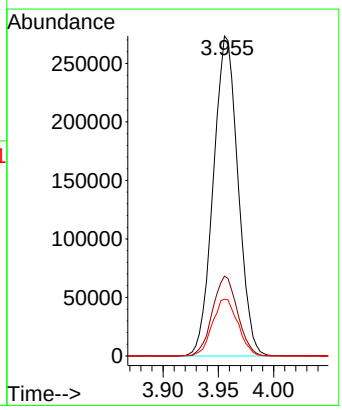


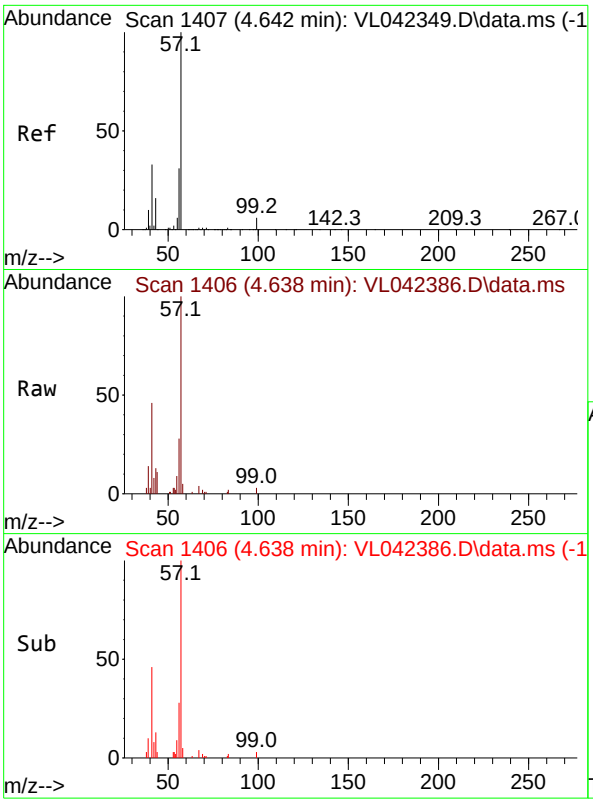


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.955 min Scan# 1195
Delta R.T. -0.003 min
Lab File: VL042386.D
Acq: 18 Apr 2025 12:09

Tgt Ion:114 Resp: 424572

Ion	Ratio	Lower	Upper
114	100		
63	25.4	21.8	32.6
88	18.4	15.5	23.3

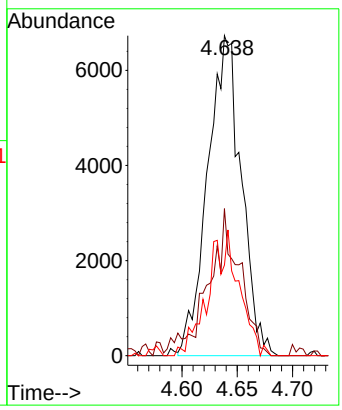




#44
2,2,4-Trimethylpentane
Concen: 0.180 ppbv
RT: 4.638 min Scan# 14
Delta R.T. -0.003 min
Lab File: VL042386.D
Acq: 18 Apr 2025 12:09

Tgt Ion: 57 Resp: 1425

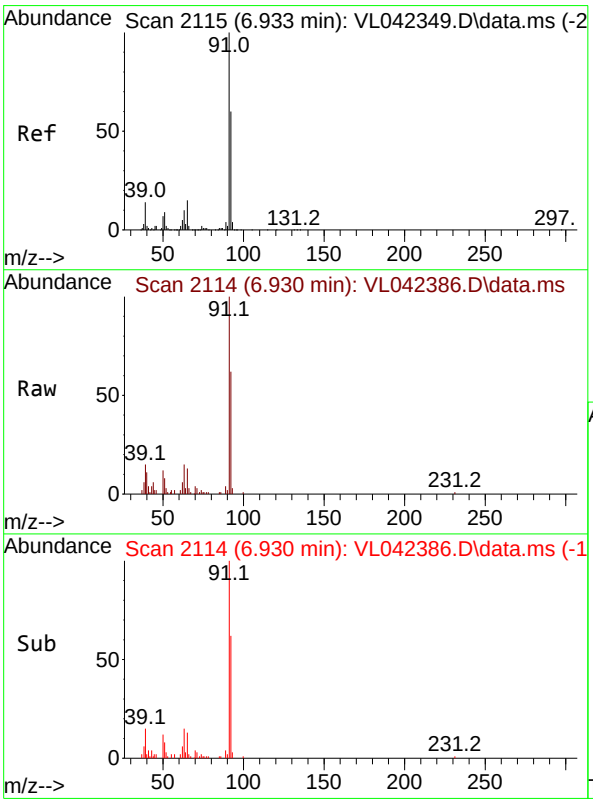
Ion	Ratio	Lower	Upper
57	100		
41	43.5	27.2	40.8
56	36.0	25.7	38.5



Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025DL2

Manual Integrations
APPROVED

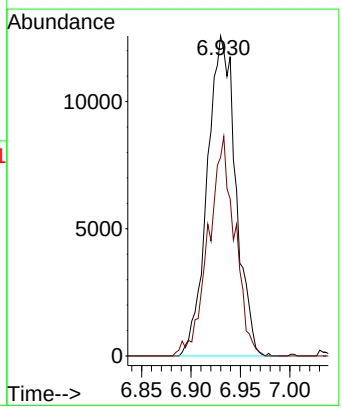
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025

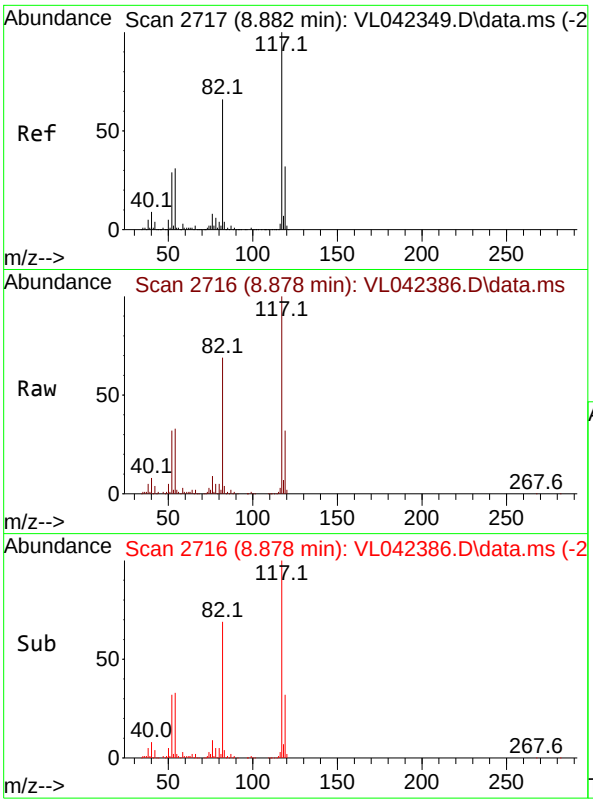


#53
Toluene
Concen: 0.458 ppbv m
RT: 6.930 min Scan# 2114
Delta R.T. -0.003 min
Lab File: VL042386.D
Acq: 18 Apr 2025 12:09

Tgt Ion: 91 Resp: 25162

Ion	Ratio	Lower	Upper
91	100		
92	63.7	48.2	72.4

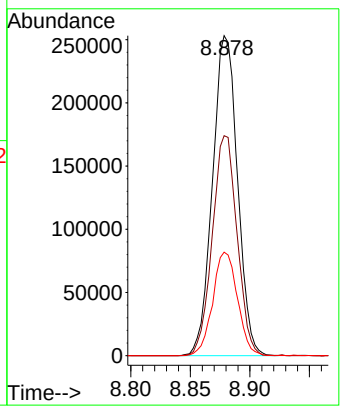




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.878 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL042386.D
Acq: 18 Apr 2025 12:09

Tgt Ion:117 Resp: 36867

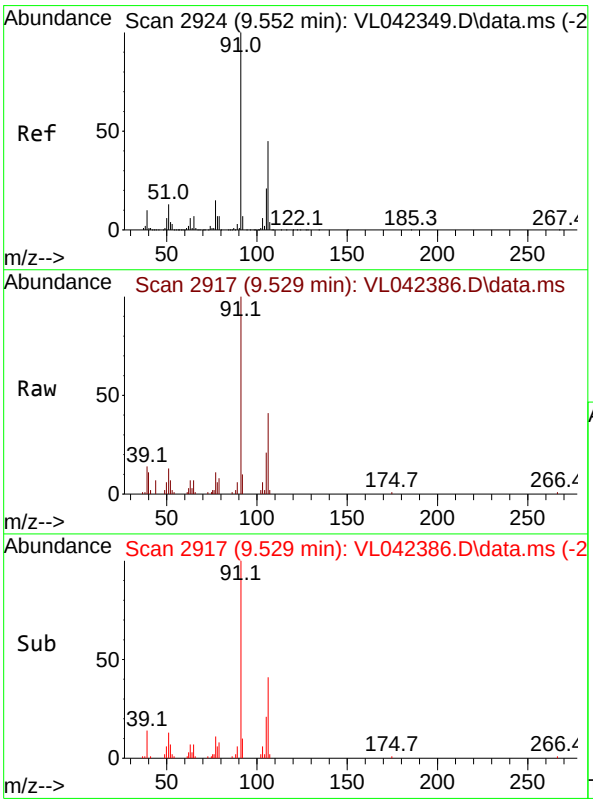
Ion	Ratio	Lower	Upper
117	100		
82	68.2	57.8	86.6
119	32.1	25.2	37.8



Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025DL2

Manual Integrations
APPROVED

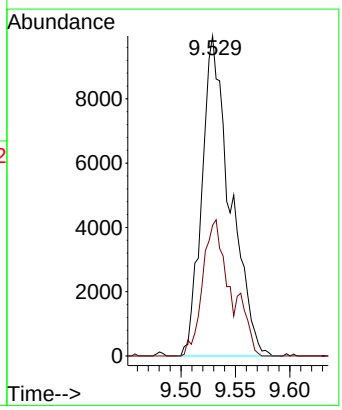
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025

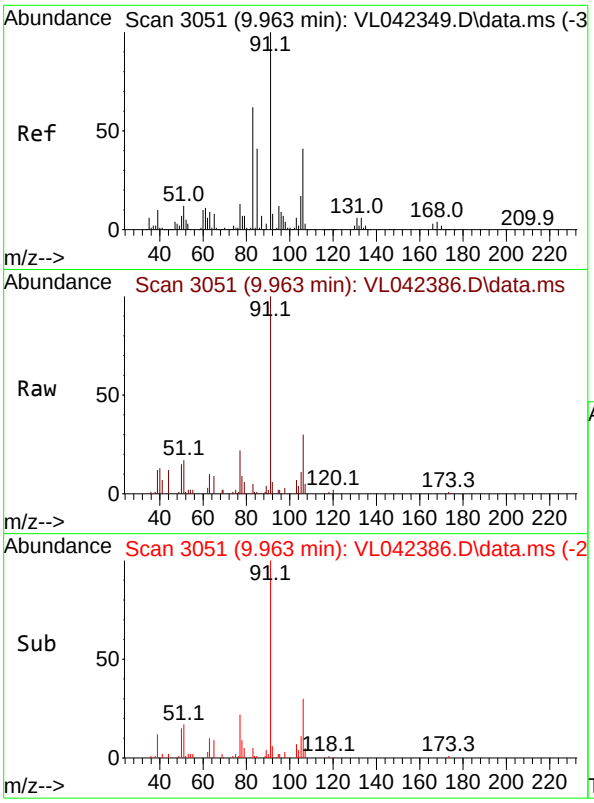


#59
m/p-Xylene
Concen: 0.305 ppbv m
RT: 9.529 min Scan# 2917
Delta R.T. -0.023 min
Lab File: VL042386.D
Acq: 18 Apr 2025 12:09

Tgt Ion: 91 Resp: 17952

Ion	Ratio	Lower	Upper
91	100		
106	0.0	35.4	53.2#

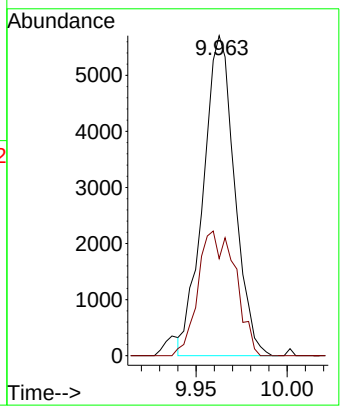




#60
o-Xylene
Concen: 0.115 ppbv
RT: 9.963 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042386.D
Acq: 18 Apr 2025 12:09

Tgt Ion: 91 Resp: 683

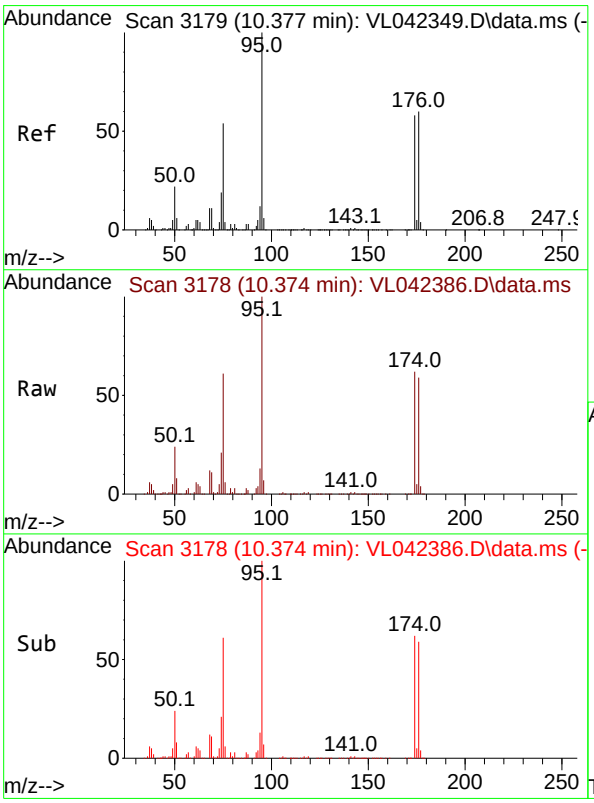
Ion	Ratio	Lower	Upper
91	100		
106	46.2	21.1	63.4



Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025DL2

Manual Integrations
APPROVED

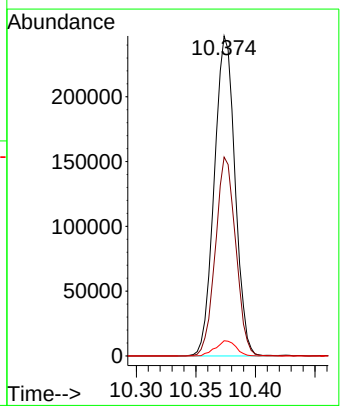
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025



#68
1-Bromo-4-Fluorobenzene
Concen: 9.859 ppbv
RT: 10.374 min Scan# 3178
Delta R.T. -0.003 min
Lab File: VL042386.D
Acq: 18 Apr 2025 12:09

Tgt Ion: 95 Resp: 298684

Ion	Ratio	Lower	Upper
95	100		
174	61.0	48.5	72.7
175	4.7	3.7	5.5



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

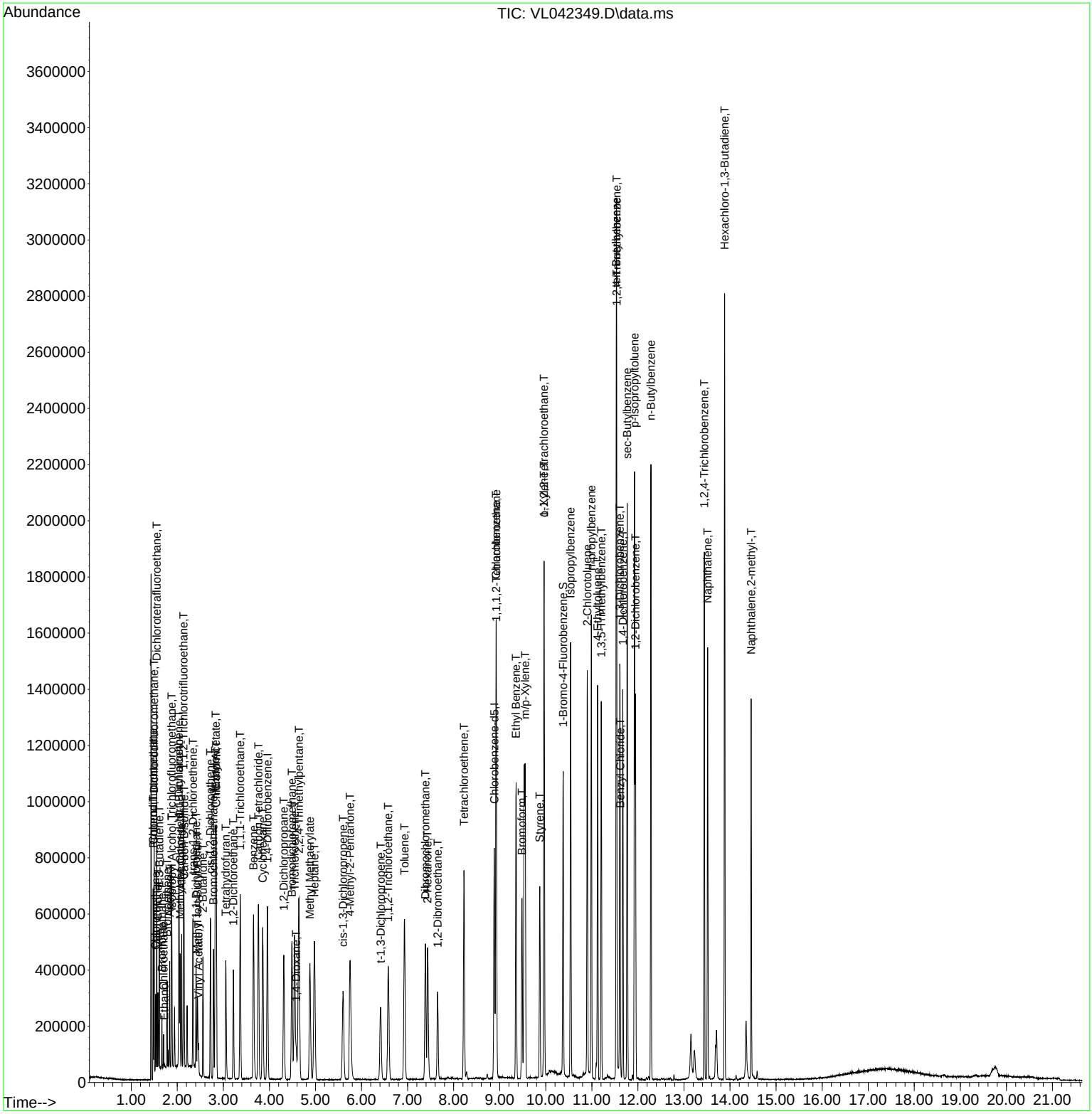
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042349.D
Acq On : 17 Apr 2025 09:44
Operator : SY/MD
Sample : VSTDICCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

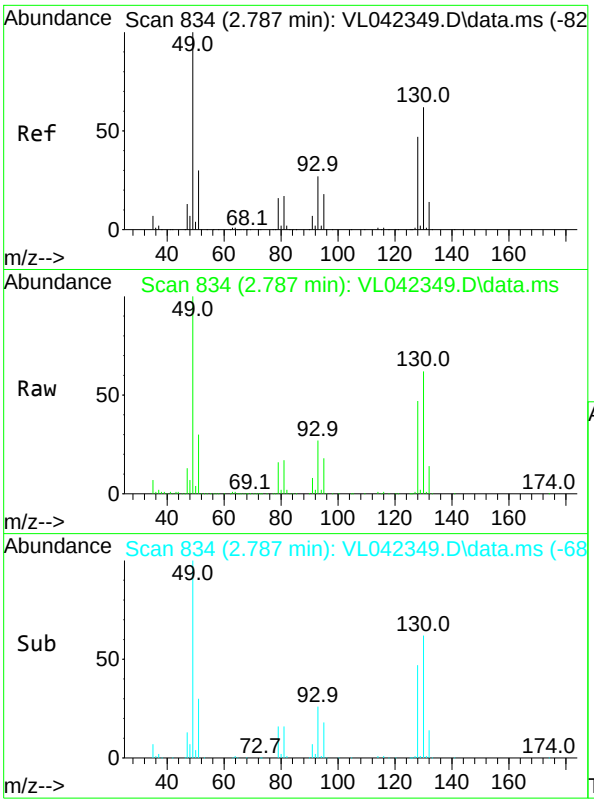
Quant Time: Apr 18 01:25:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Apr 18 01:24:29 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations APPROVED

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

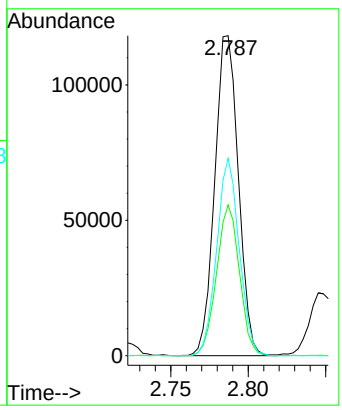




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 49 Resp: 12545

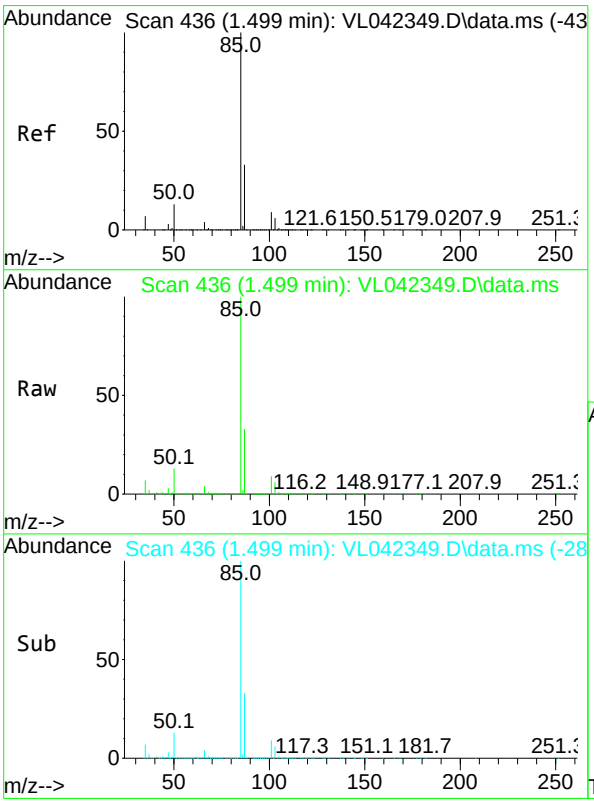
Ion	Ratio	Lower	Upper
49	100		
128	45.6	22.8	68.4
130	58.7	29.3	88.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

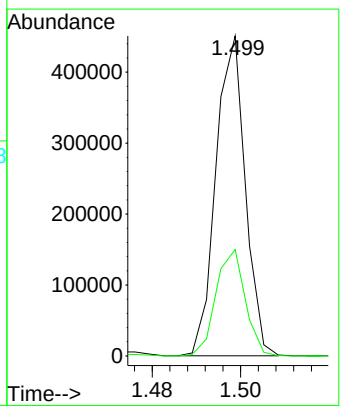
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

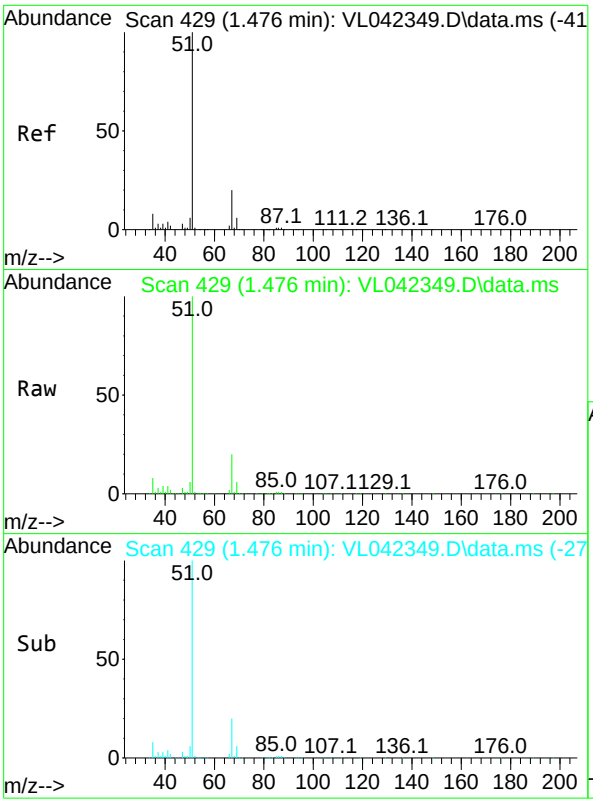


#2
Dichlorodifluoromethane
Concen: 9.382 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 85 Resp: 207962

Ion	Ratio	Lower	Upper
85	100		
87	33.2	26.6	39.8

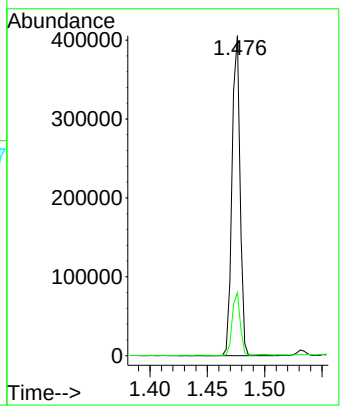




#3
Chlorodifluoromethane
Concen: 9.350 ppbv
RT: 1.476 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 51 Resp: 19733

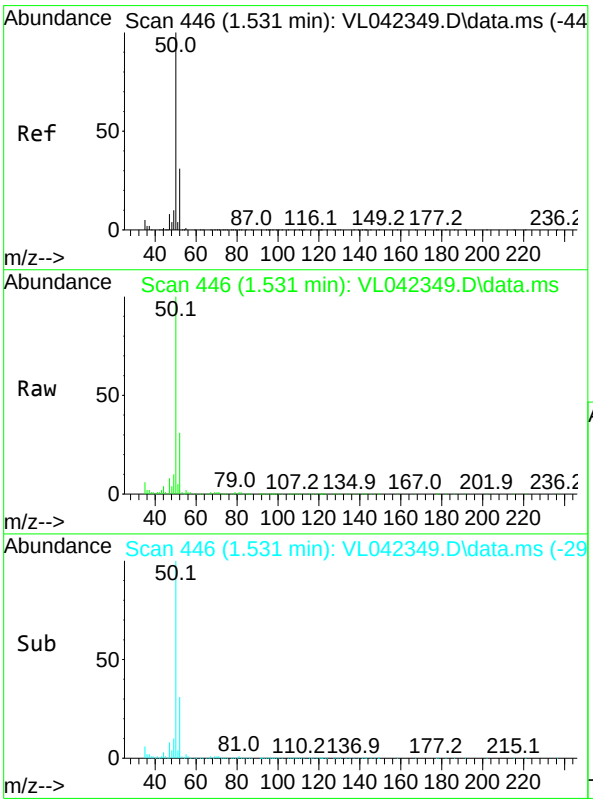
Ion	Ratio	Lower	Upper
51	100		
67	20.3	16.2	24.4



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

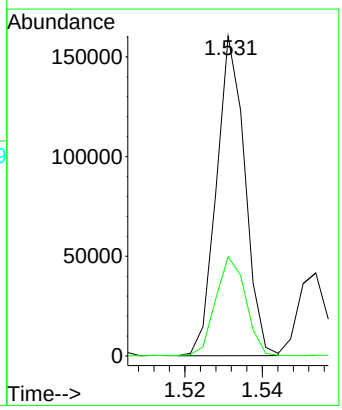
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

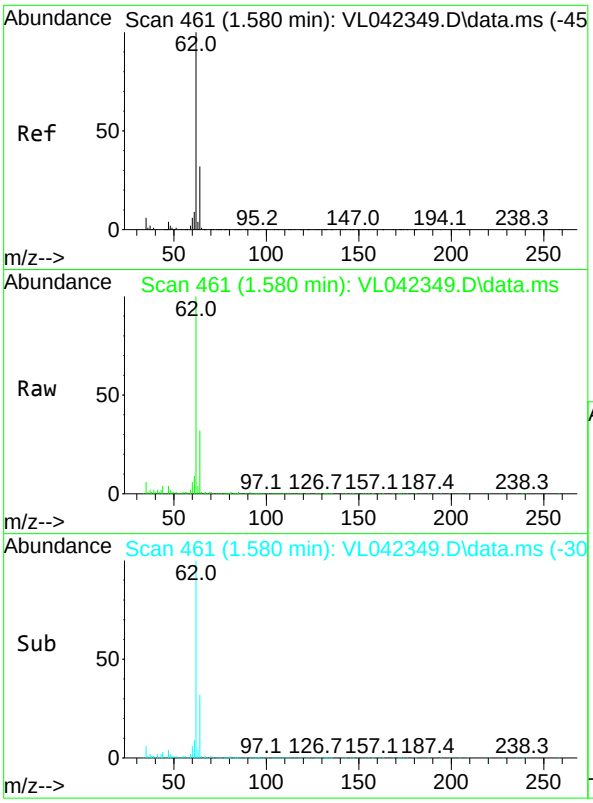


#4
Chloromethane
Concen: 9.330 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 50 Resp: 81843

Ion	Ratio	Lower	Upper
50	100		
52	30.9	24.7	37.1

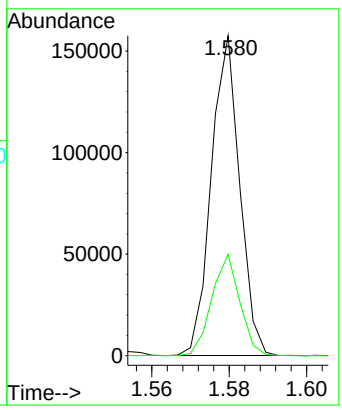




#5
Vinyl Chloride
Concen: 8.385 ppbv
RT: 1.580 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 62 Resp: 8006

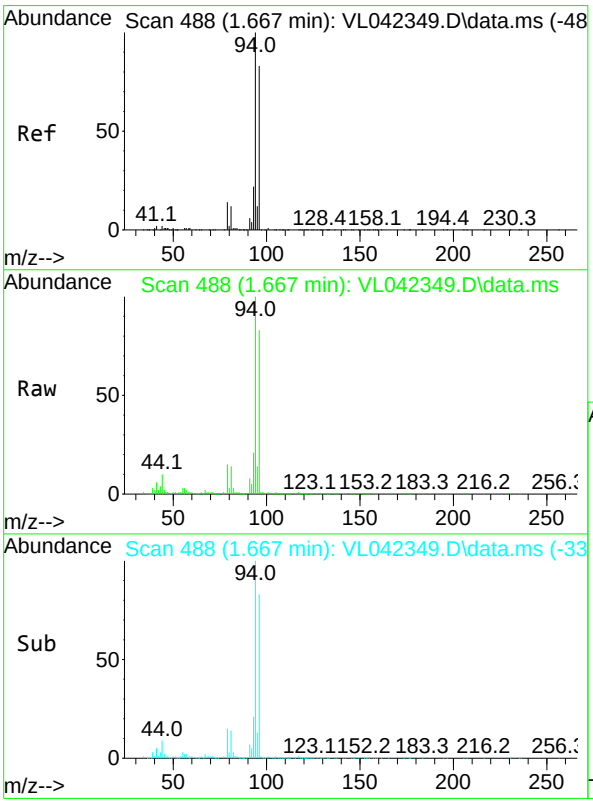
Ion	Ratio	Lower	Upper
62	100		
64	31.7	25.4	38.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

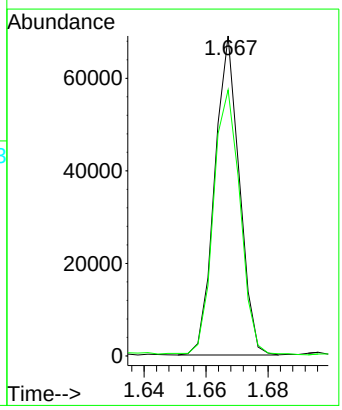
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

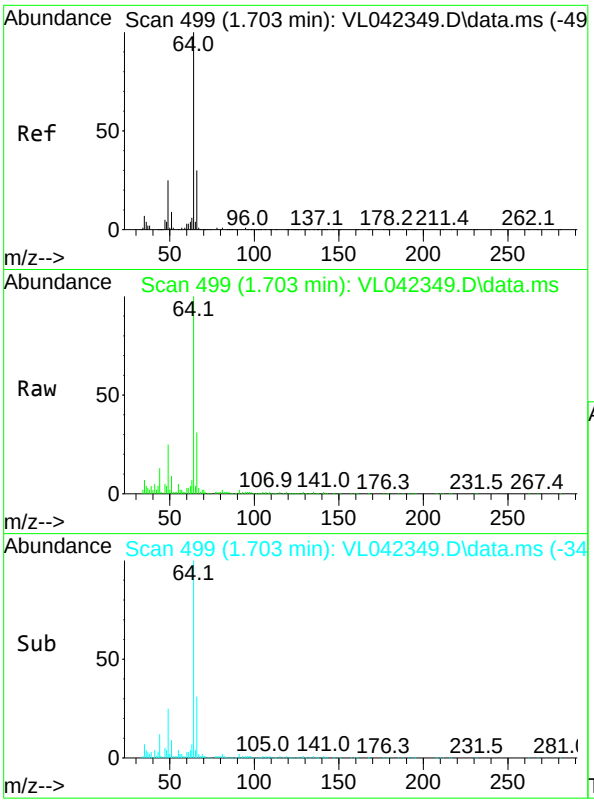


#6
Bromomethane
Concen: 9.219 ppbv
RT: 1.667 min Scan# 488
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 94 Resp: 38128

Ion	Ratio	Lower	Upper
94	100		
96	82.7	66.2	99.2

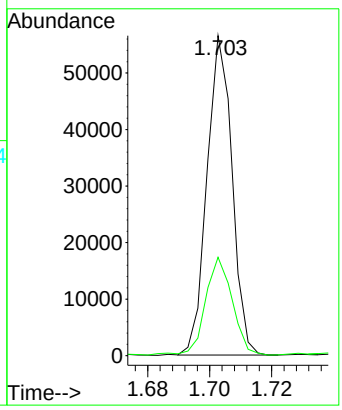




#7
Chloroethane
Concen: 9.182 ppbv
RT: 1.703 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 64 Resp: 3170

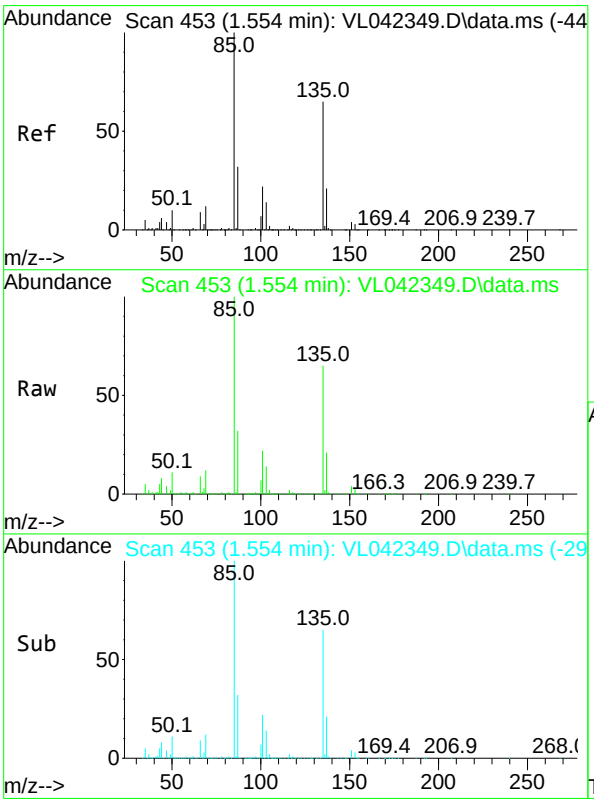
Ion	Ratio	Lower	Upper
64	100		
66	30.8	24.6	37.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

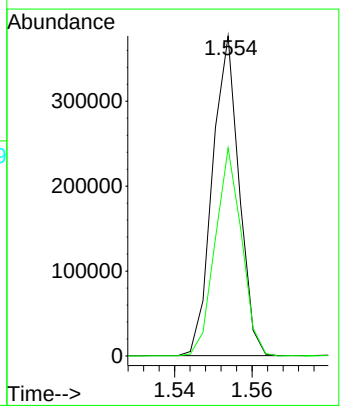
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

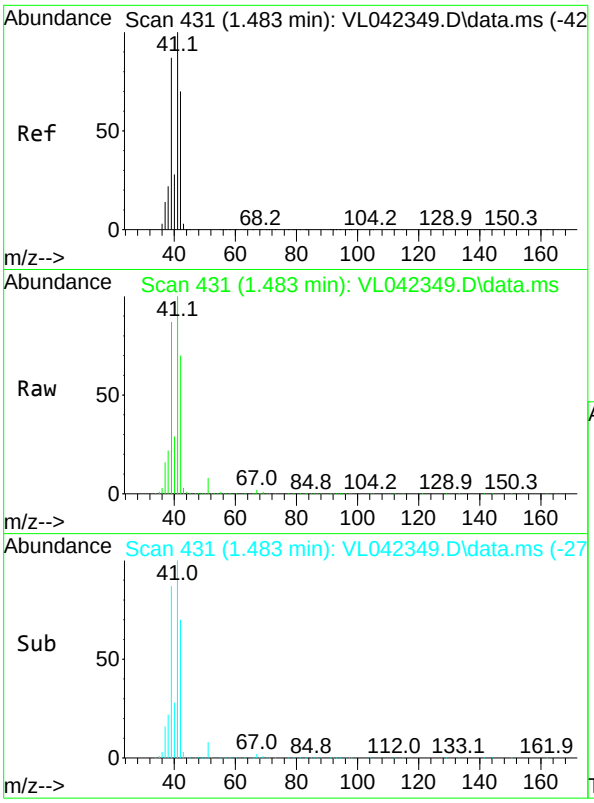


#8
Dichlorotetrafluoroethane
Concen: 9.442 ppbv
RT: 1.554 min Scan# 453
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 85 Resp: 179696

Ion	Ratio	Lower	Upper
85	100		
135	65.2	52.2	78.2

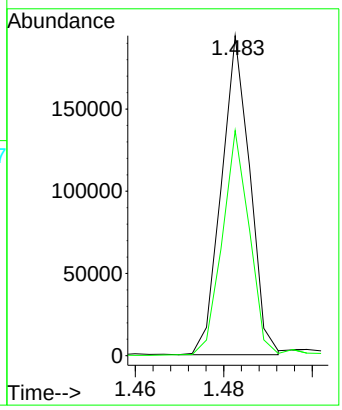




#9
Propene
Concen: 9.002 ppbv
RT: 1.483 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 41 Resp: 8653

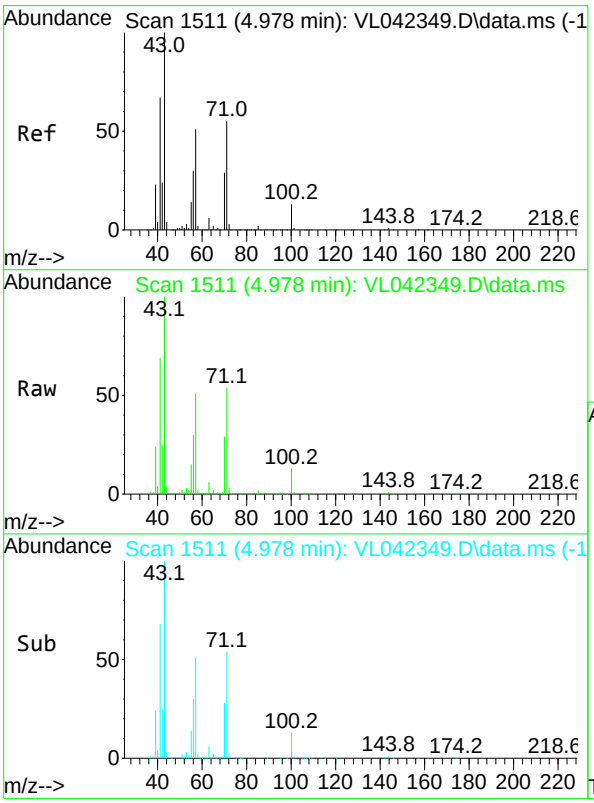
Ion	Ratio	Lower	Upper
41	100		
42	70.3	56.2	84.4



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

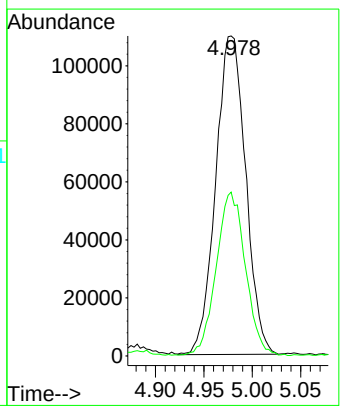
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

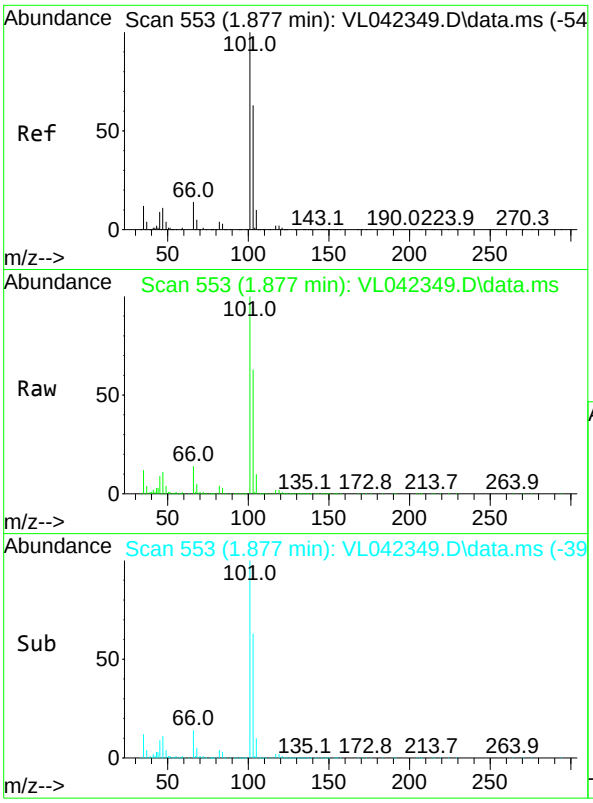


#10
Heptane
Concen: 9.138 ppbv
RT: 4.978 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 43 Resp: 236341

Ion	Ratio	Lower	Upper
43	100		
57	49.9	39.9	59.9

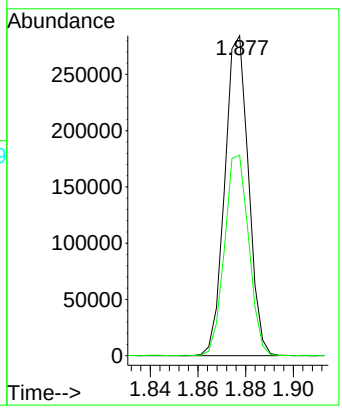




#11
Trichlorofluoromethane
Concen: 9.327 ppbv
RT: 1.877 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion:101 Resp: 19659

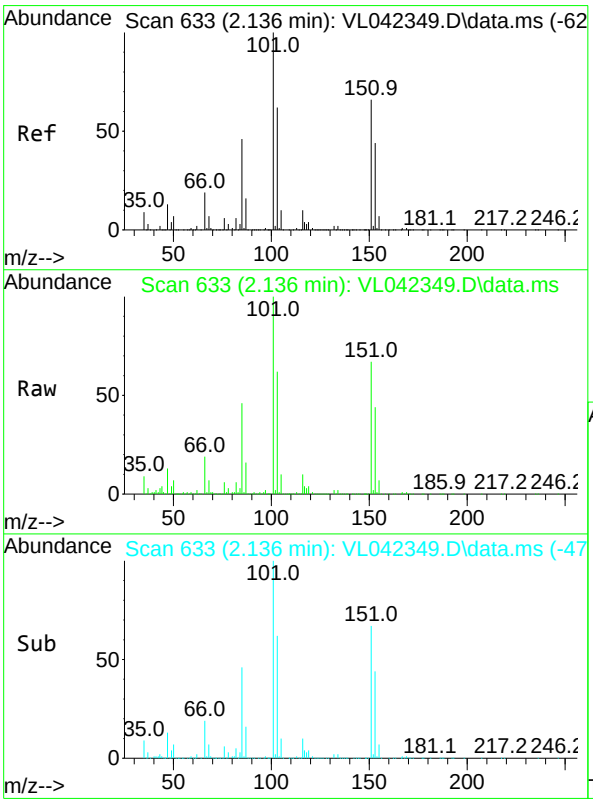
Ion	Ratio	Lower	Upper
101	100		
103	62.6	50.1	75.1



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

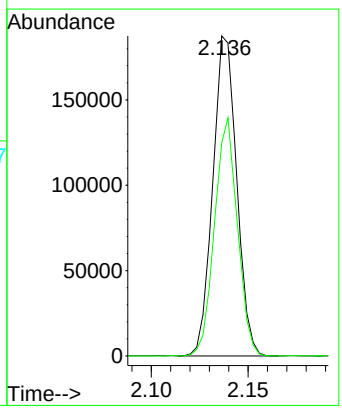
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

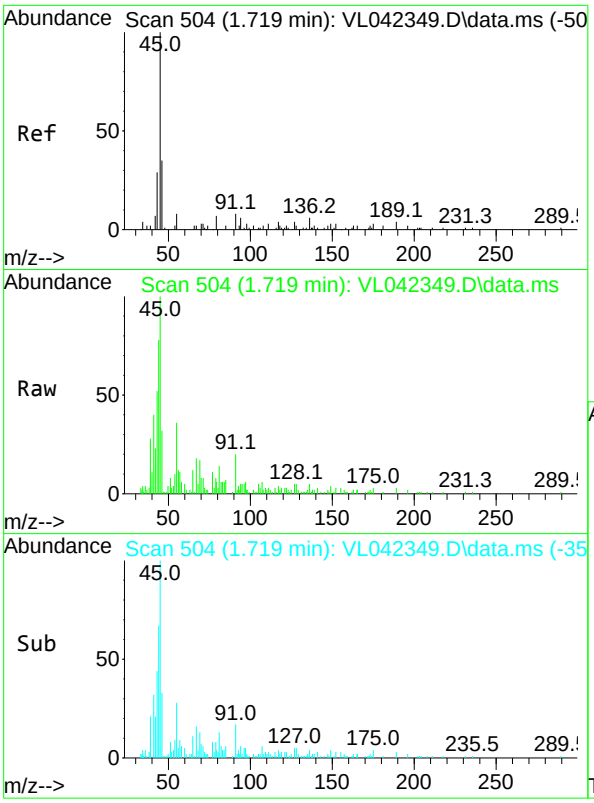


#12
1,1,2-Trichlorotrifluoroethane
Concen: 9.323 ppbv
RT: 2.136 min Scan# 633
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion:101 Resp: 160682

Ion	Ratio	Lower	Upper
101	100		
151	71.3	57.0	85.6

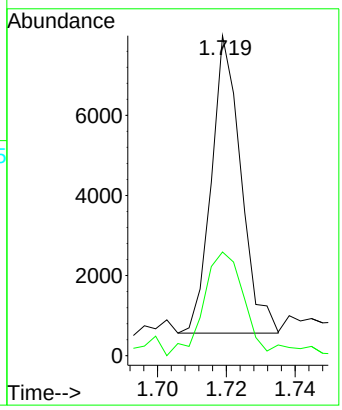




#13
Ethanol
Concen: 5.651 ppbv
RT: 1.719 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 45 Resp: 443

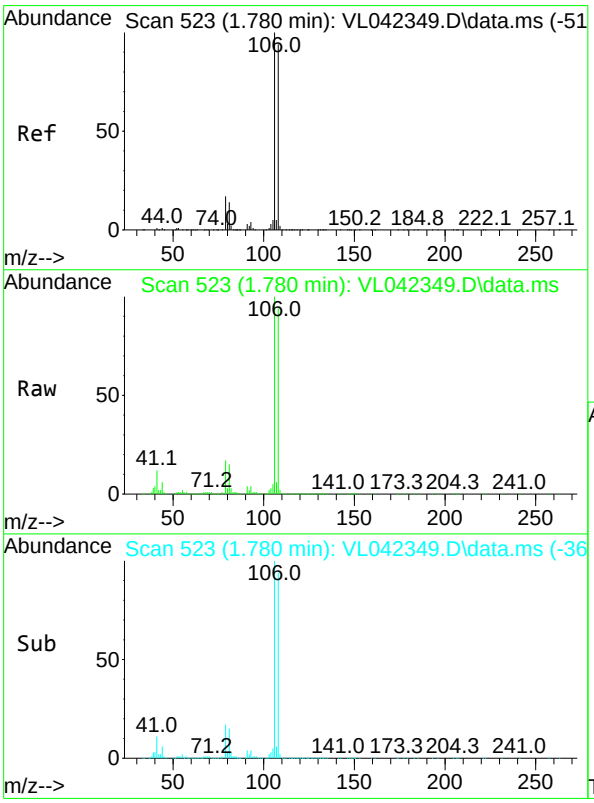
Ion	Ratio	Lower	Upper
45	100		
46	54.8	21.9	87.7



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

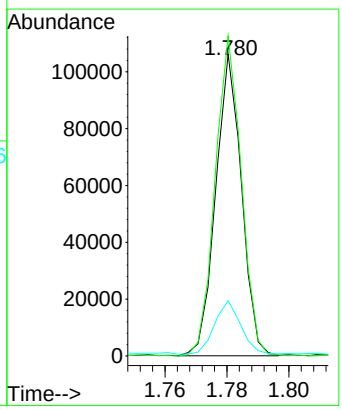
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

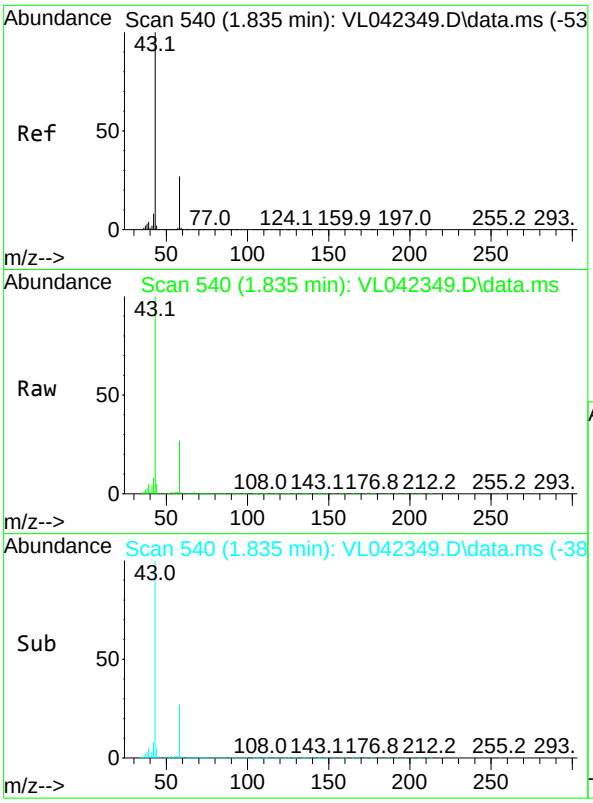


#14
Bromoethene
Concen: 9.466 ppbv
RT: 1.780 min Scan# 523
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

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

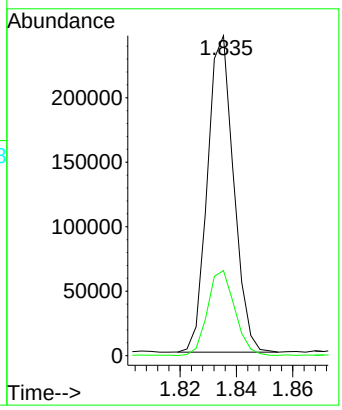




#15
Acetone
Concen: 7.717 ppbv
RT: 1.835 min Scan# 54
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 43 Resp: 15849

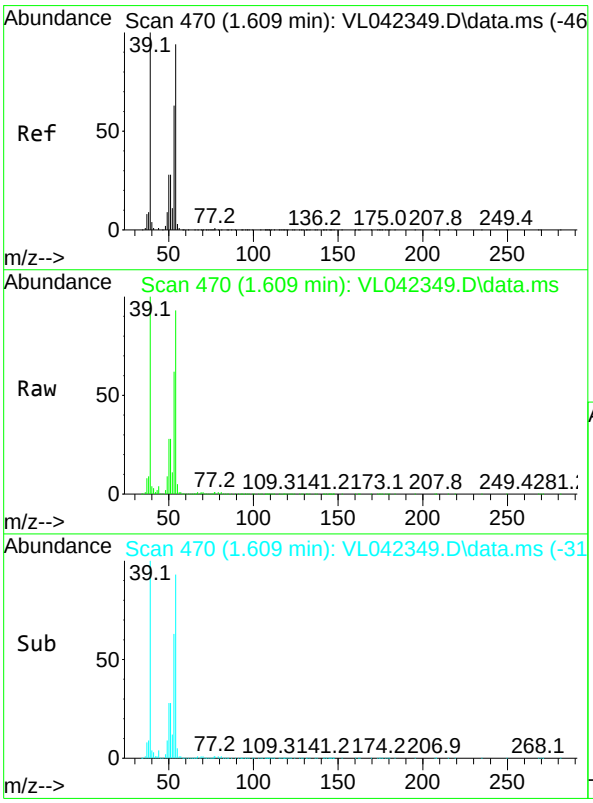
Ion	Ratio	Lower	Upper
43	100		
58	28.0	22.4	33.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

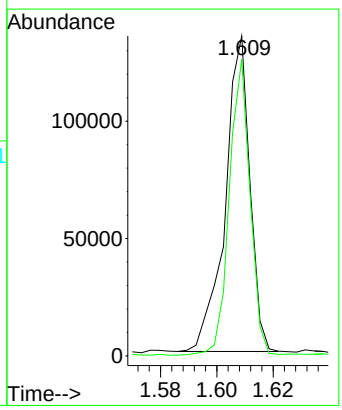
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

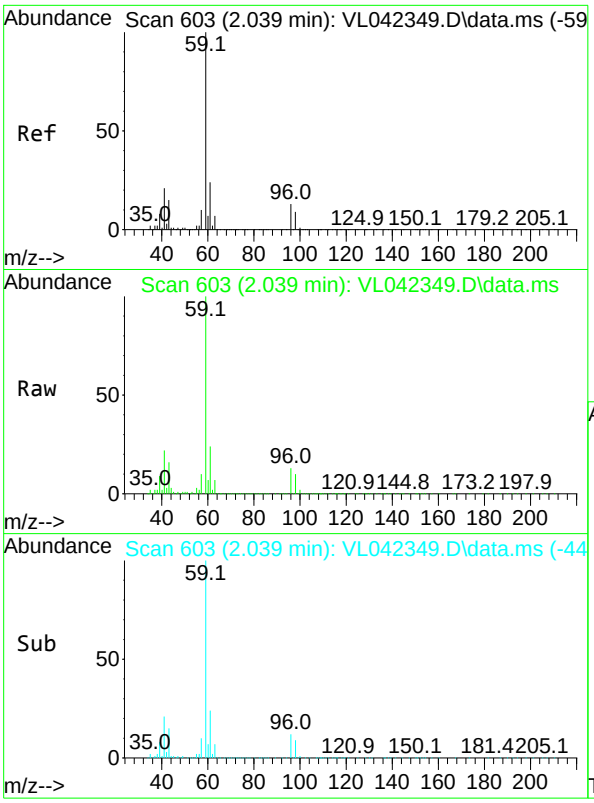


#16
1,3-Butadiene
Concen: 8.470 ppbv
RT: 1.609 min Scan# 470
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 39 Resp: 81688

Ion	Ratio	Lower	Upper
39	100		
54	81.1	64.9	97.3

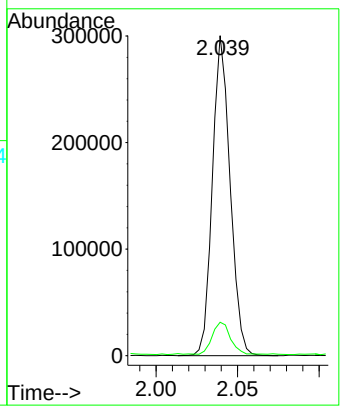




#17
tert-Butyl alcohol
Concen: 8.891 ppbv
RT: 2.039 min Scan# 6
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 59 Resp: 22628

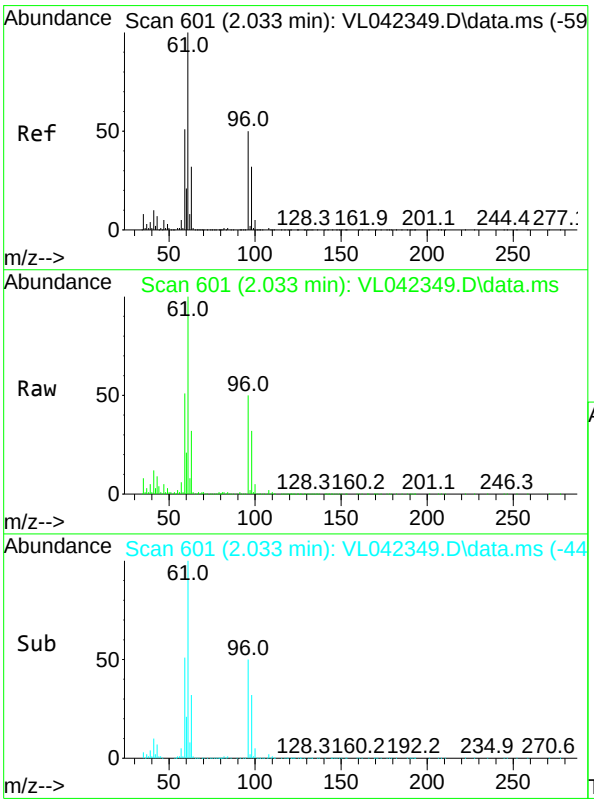
Ion	Ratio	Lower	Upper
59	100		
57	10.9	8.7	13.1



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

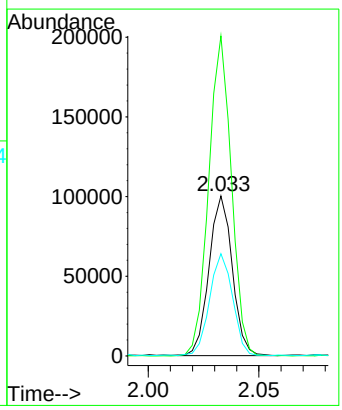
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

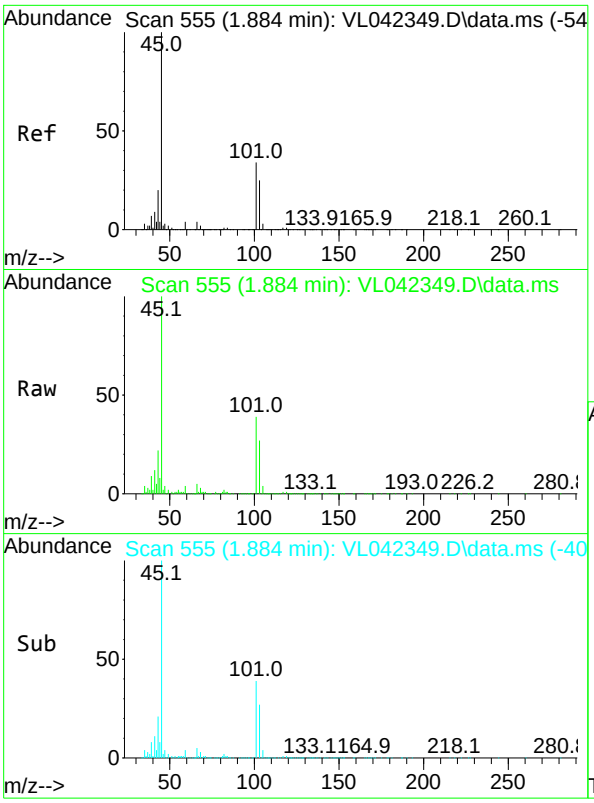


#18
1,1-Dichloroethene
Concen: 8.833 ppbv
RT: 2.033 min Scan# 601
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

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

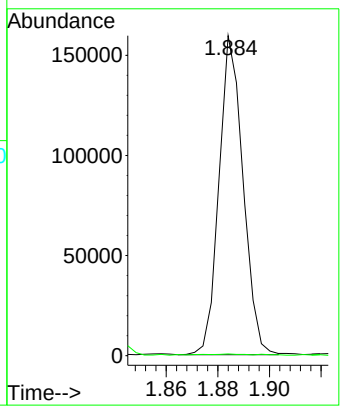




#19
Isopropyl Alcohol
Concen: 9.031 ppbv
RT: 1.884 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 45 Resp: 10302

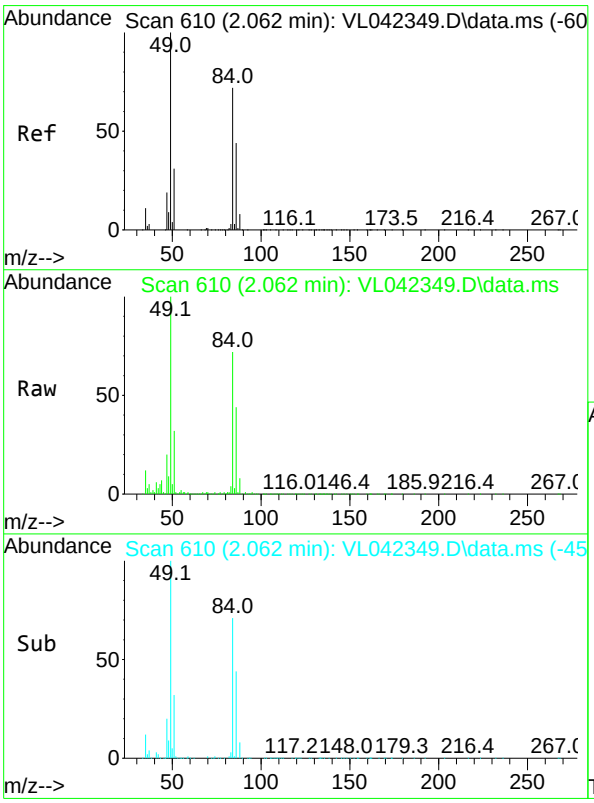
Ion	Ratio	Lower	Upper
45	100		
58	43.1	34.5	51.7



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

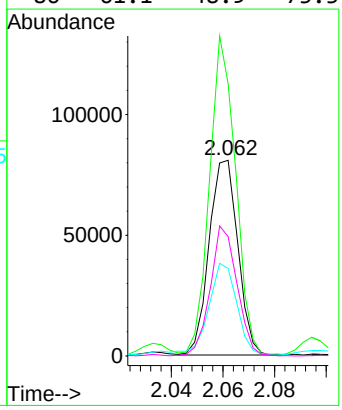
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

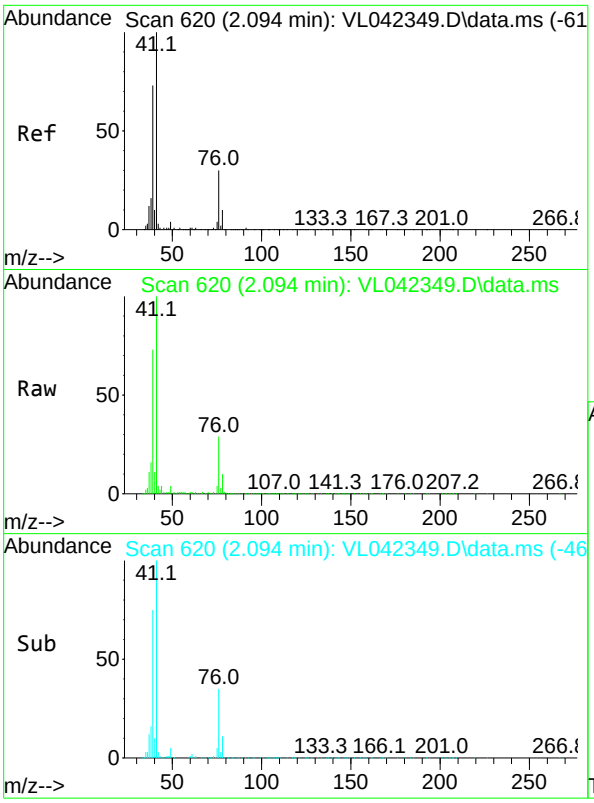


#20
Methylene Chloride
Concen: 7.760 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

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

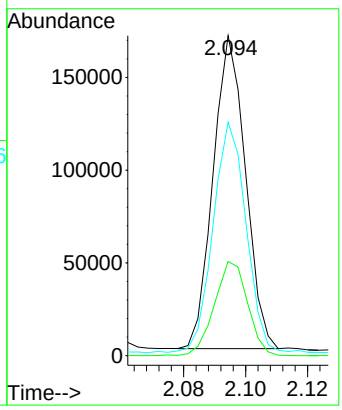




#21
Allyl Chloride
Concen: 8.611 ppbv
RT: 2.094 min Scan# 6
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 41 Resp: 12211

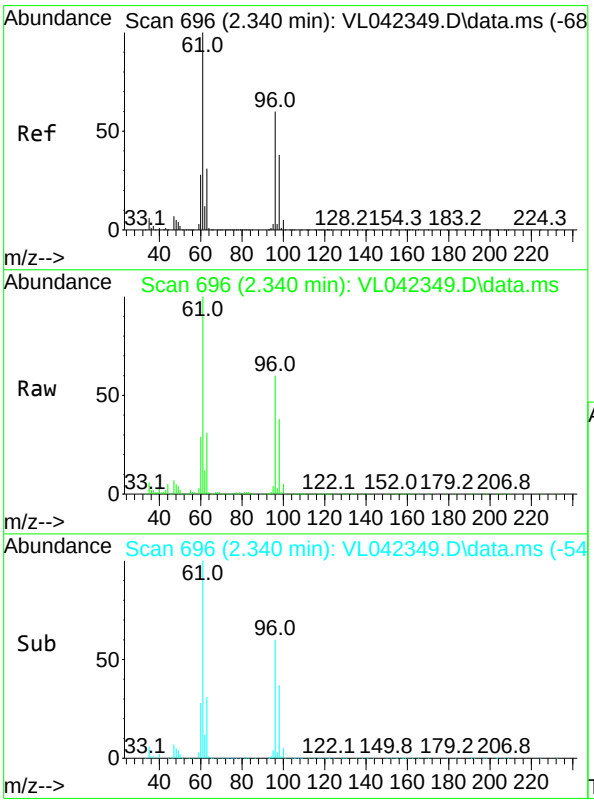
Ion	Ratio	Lower	Upper
41	100		
76	31.0	24.8	37.2
39	75.7	60.6	90.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

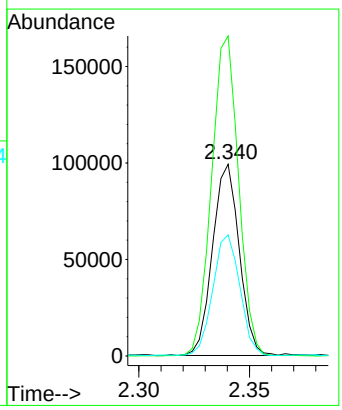
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

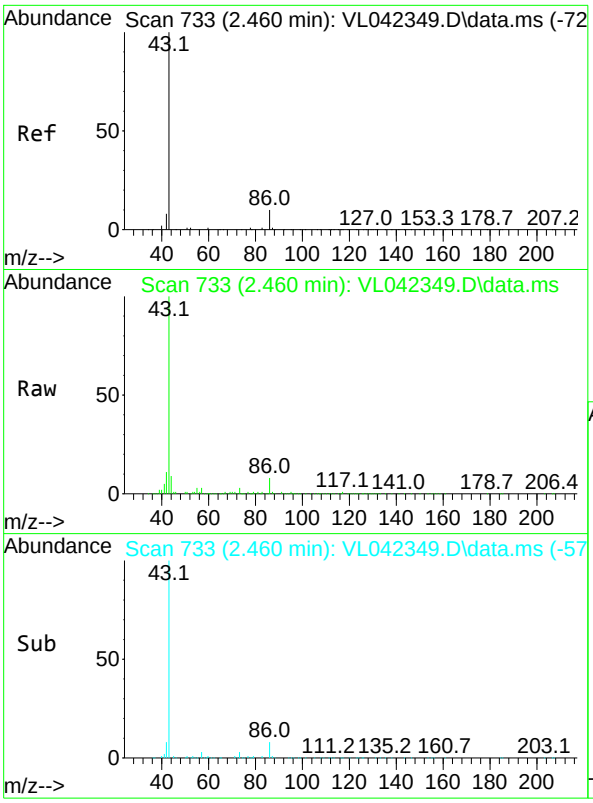


#22
trans-1,2-Dichloroethene
Concen: 9.084 ppbv
RT: 2.340 min Scan# 696
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

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

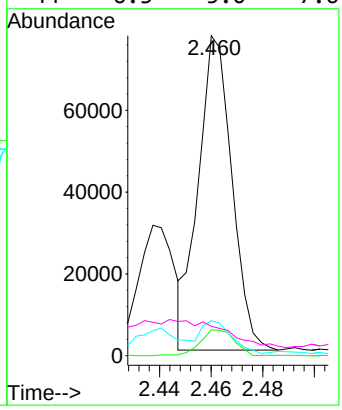




#23
Vinyl Acetate
Concen: 8.378 ppbv
RT: 2.460 min Scan# 7
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 43 Resp: 6964

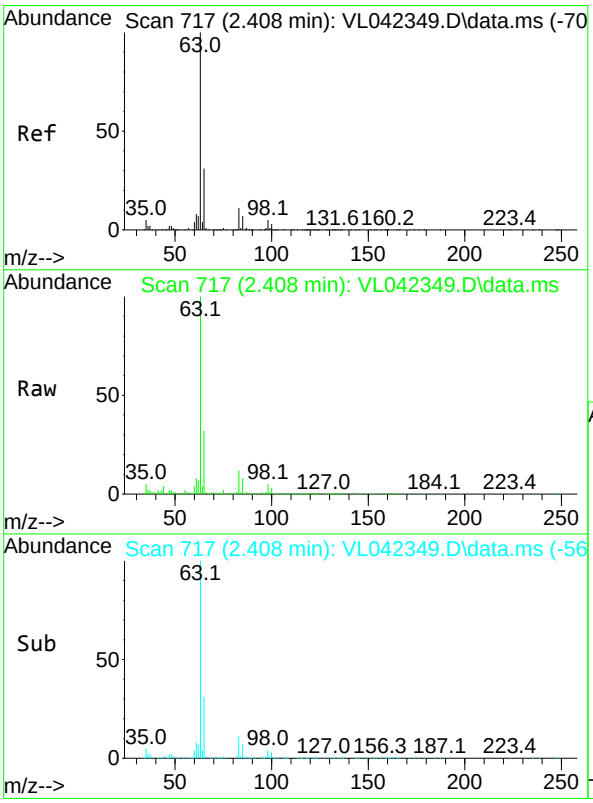
Ion	Ratio	Lower	Upper
43	100		
86	8.1	6.5	9.7
42	9.8	7.8	11.8
44	6.3	5.0	7.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

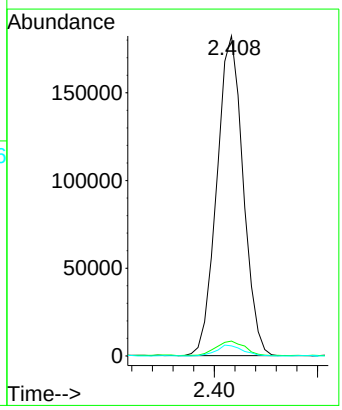
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

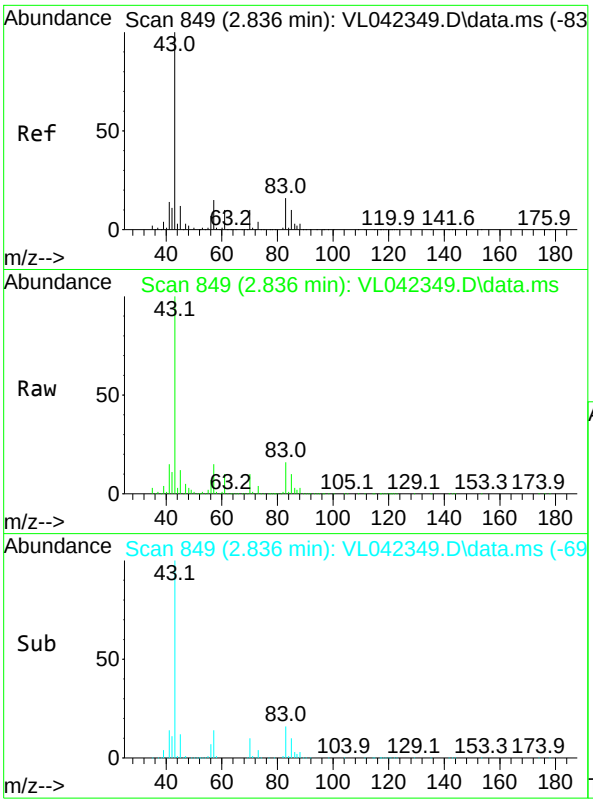


#24
1,1-Dichloroethane
Concen: 9.251 ppbv
RT: 2.408 min Scan# 717
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

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

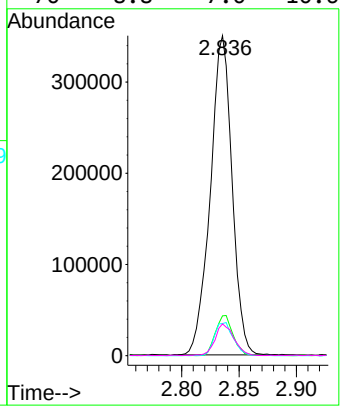




#25
Ethyl Acetate
Concen: 9.110 ppbv
RT: 2.836 min Scan# 84
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 43 Resp: 46131

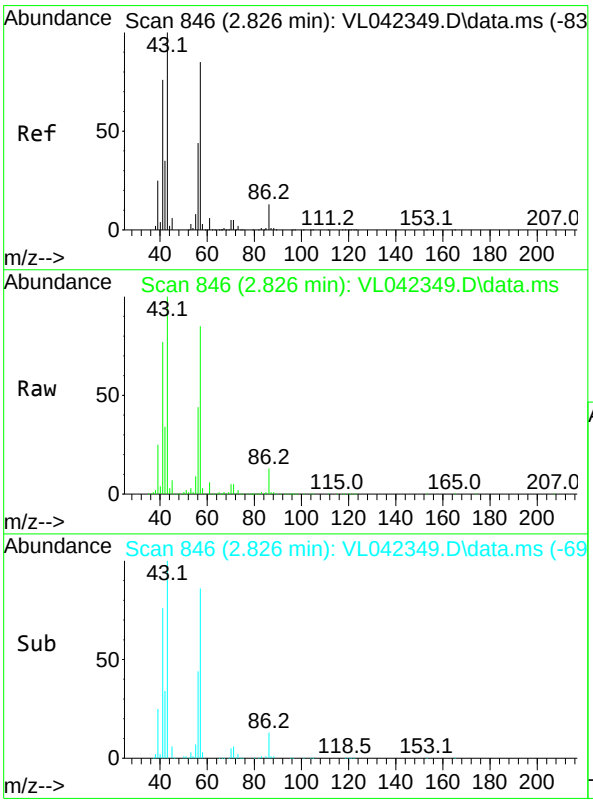
Ion	Ratio	Lower	Upper
43	100		
45	10.4	8.3	12.5
61	9.1	7.3	10.9
70	8.8	7.0	10.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

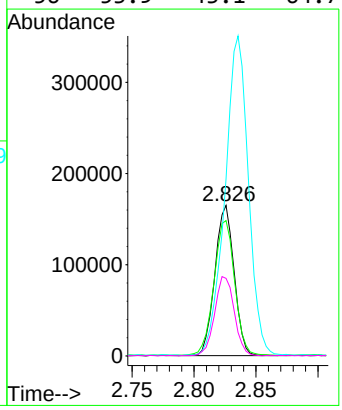
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

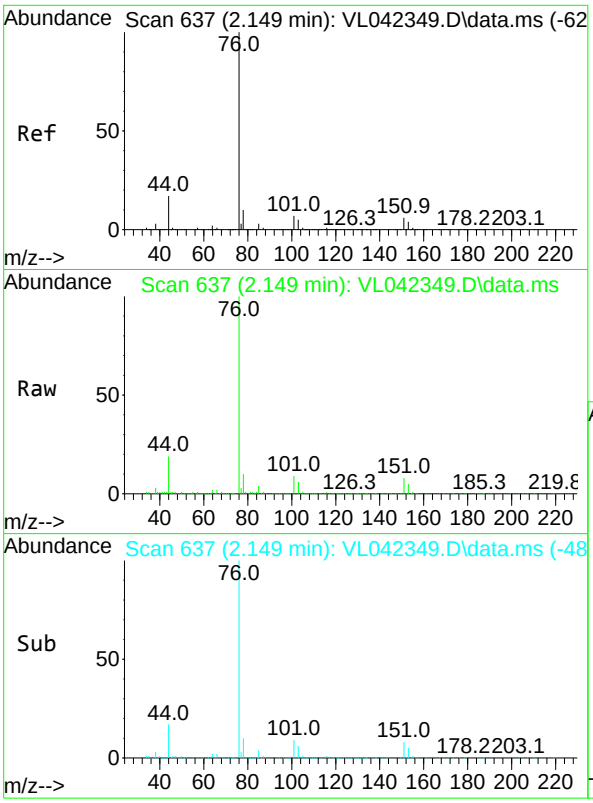


#26
Hexane
Concen: 8.720 ppbv
RT: 2.826 min Scan# 846
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

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

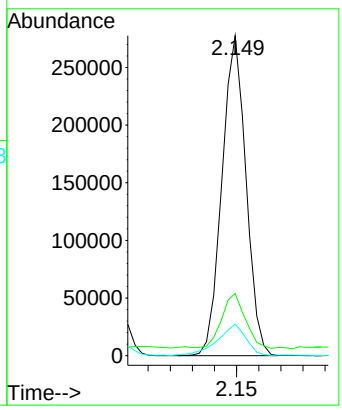




#27
Carbon Disulfide
Concen: 9.539 ppbv
RT: 2.149 min Scan# 6
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 76 Resp: 20929

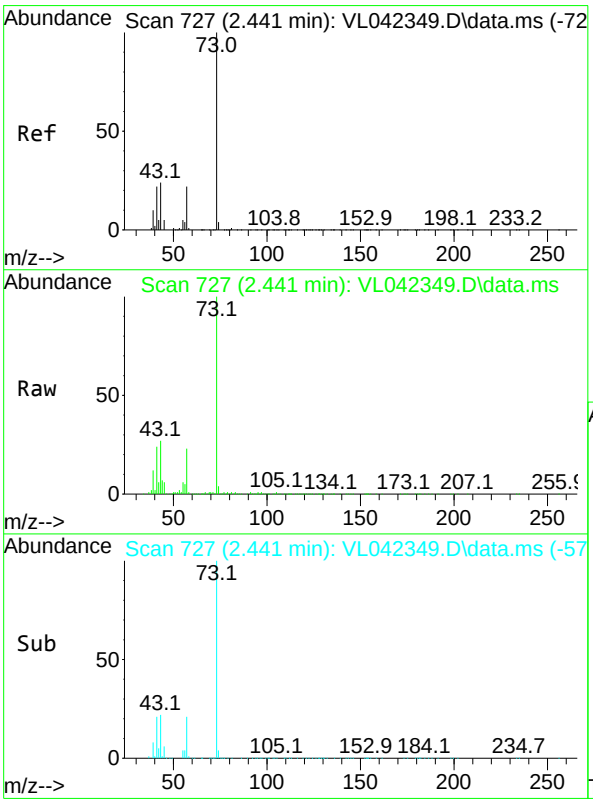
Ion	Ratio	Lower	Upper
76	100		
44	19.4	15.5	23.3
78	11.6	9.3	13.9



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

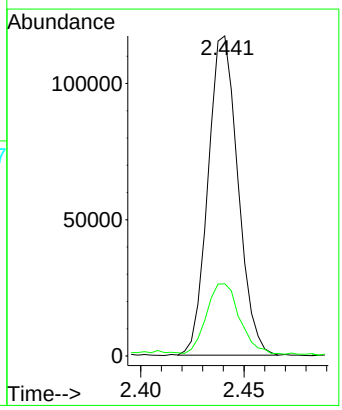
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

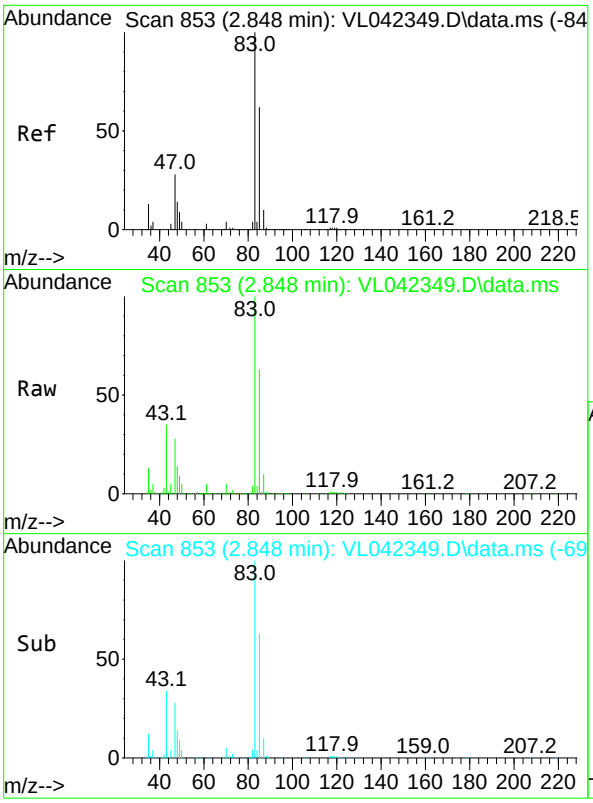


#28
Methyl tert-Butyl Ether
Concen: 8.783 ppbv
RT: 2.441 min Scan# 727
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

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

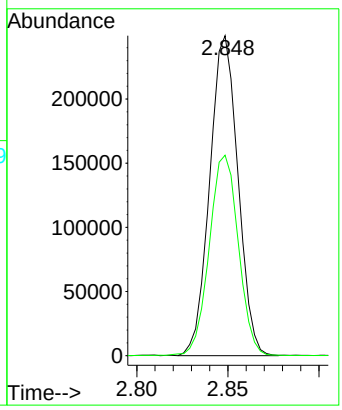
Tgt Ion: 83 Resp: 26908

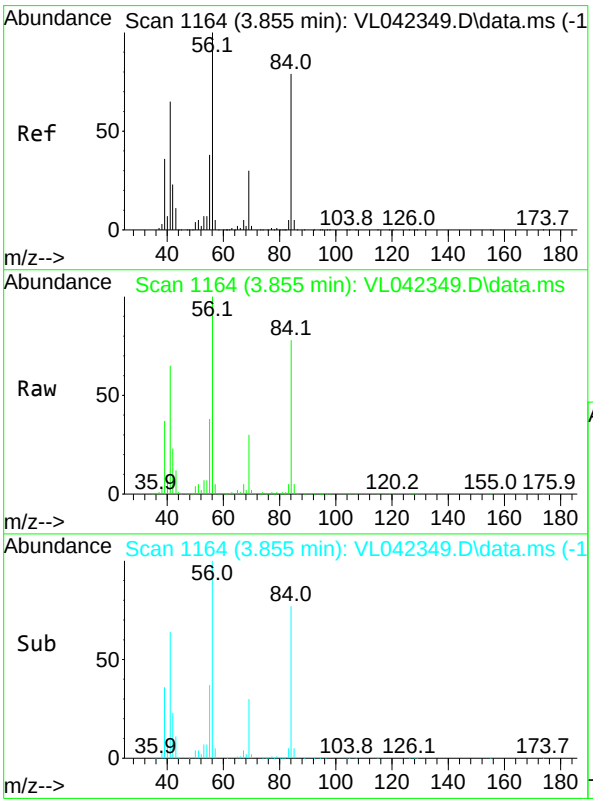
Ion	Ratio	Lower	Upper
83	100		
85	62.5	50.0	75.0

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

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

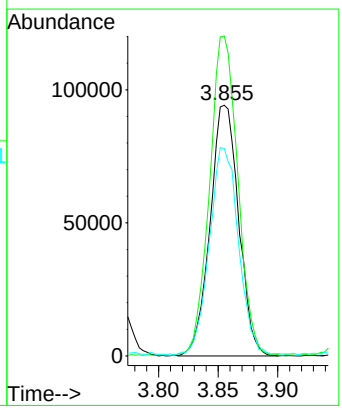


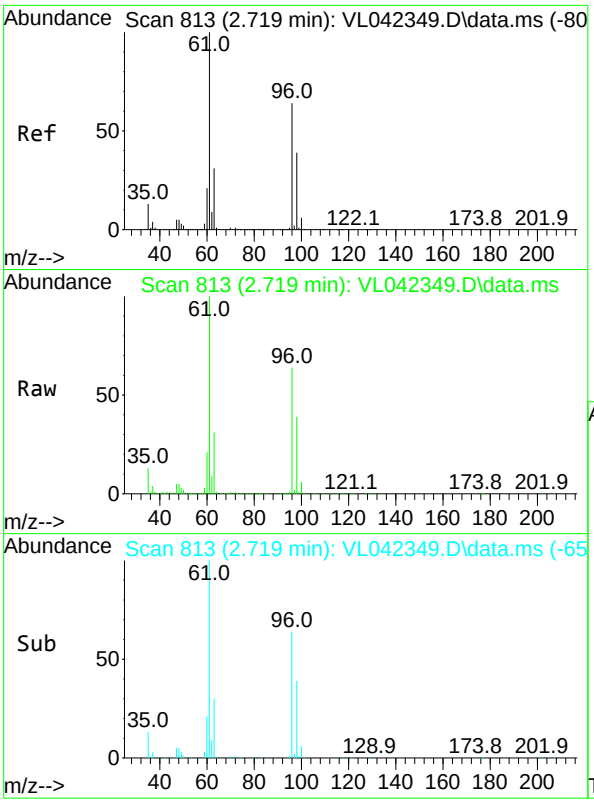


#30
Cyclohexane
Concen: 9.517 ppbv
RT: 3.855 min Scan# 1164
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

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

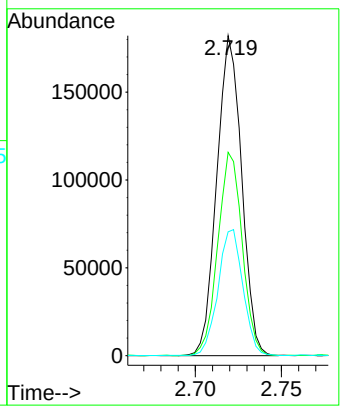




#31
cis-1,2-Dichloroethene
Concen: 9.397 ppbv
RT: 2.719 min Scan# 8
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 61 Resp: 18308

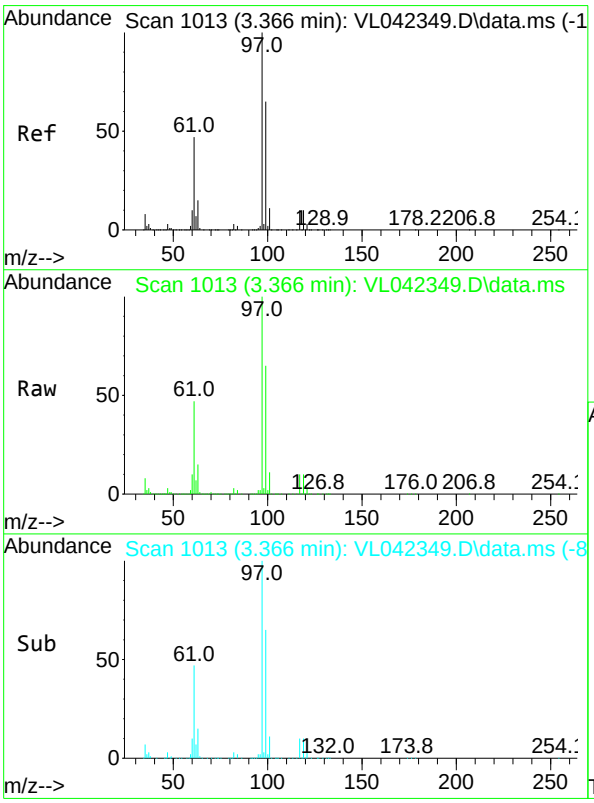
Ion	Ratio	Lower	Upper
61	100		
96	63.5	50.8	76.2
98	38.6	30.9	46.3



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

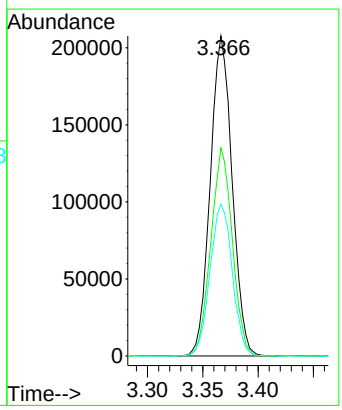
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

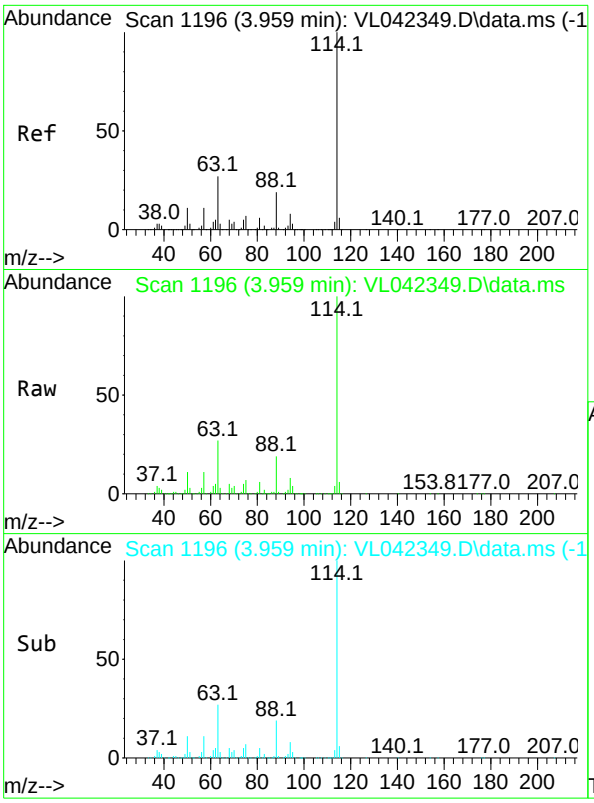


#32
1,1,1-Trichloroethane
Concen: 9.187 ppbv
RT: 3.366 min Scan# 1013
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

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

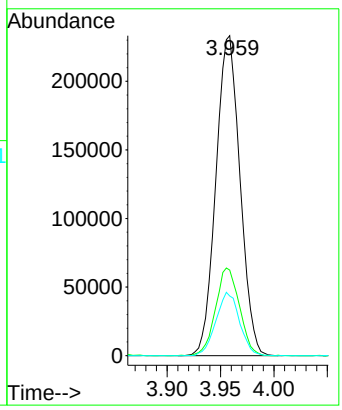




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.959 min Scan# 1
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion:114 Resp: 36654

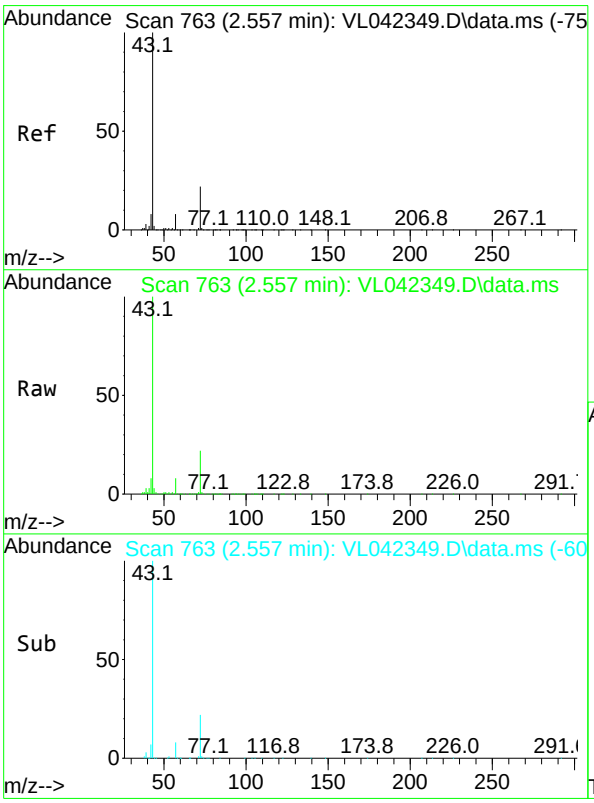
Ion	Ratio	Lower	Upper
114	100		
63	27.2	21.8	32.6
88	19.4	15.5	23.3



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations APPROVED

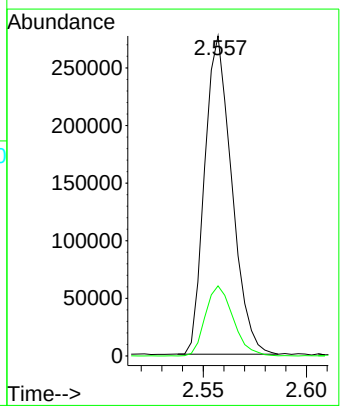
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

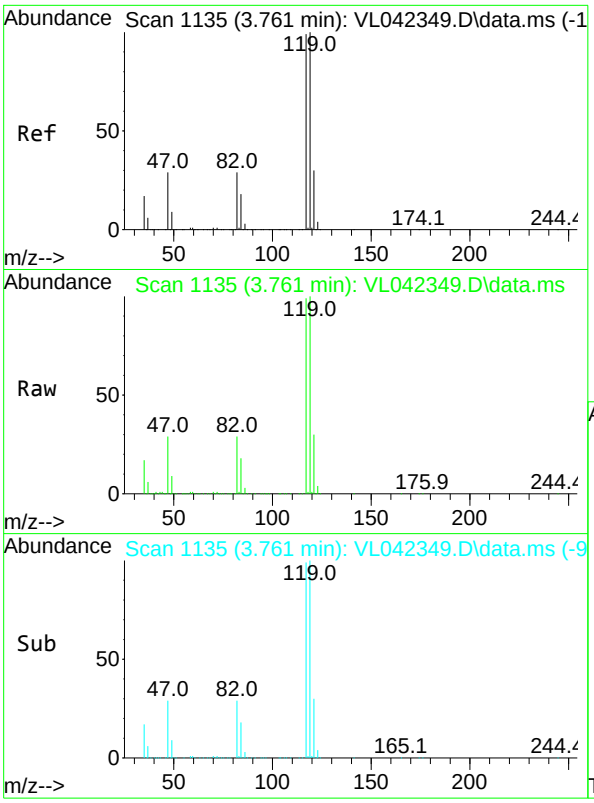


#34
2-Butanone
Concen: 8.683 ppbv
RT: 2.557 min Scan# 763
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 43 Resp: 251704

Ion	Ratio	Lower	Upper
43	100		
72	22.7	18.2	27.2

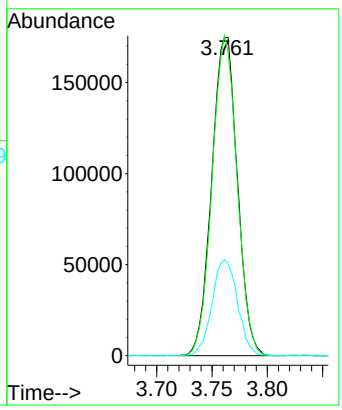




#35
Carbon Tetrachloride
Concen: 8.513 ppbv
RT: 3.761 min Scan# 1
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion:117 Resp: 28240

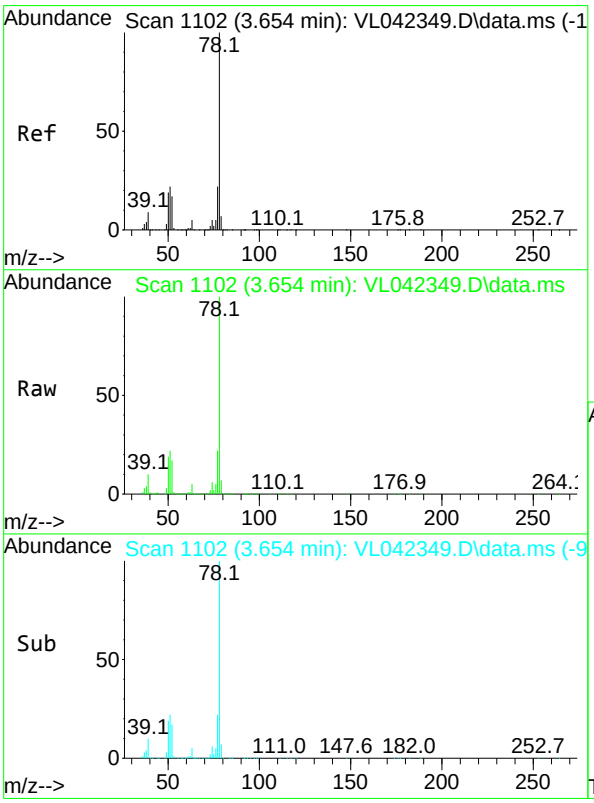
Ion	Ratio	Lower	Upper
117	100		
119	100.6	80.5	120.7
121	30.2	24.2	36.2



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations APPROVED

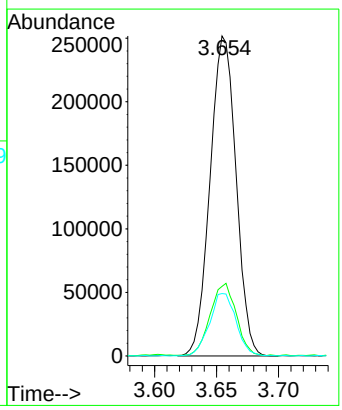
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

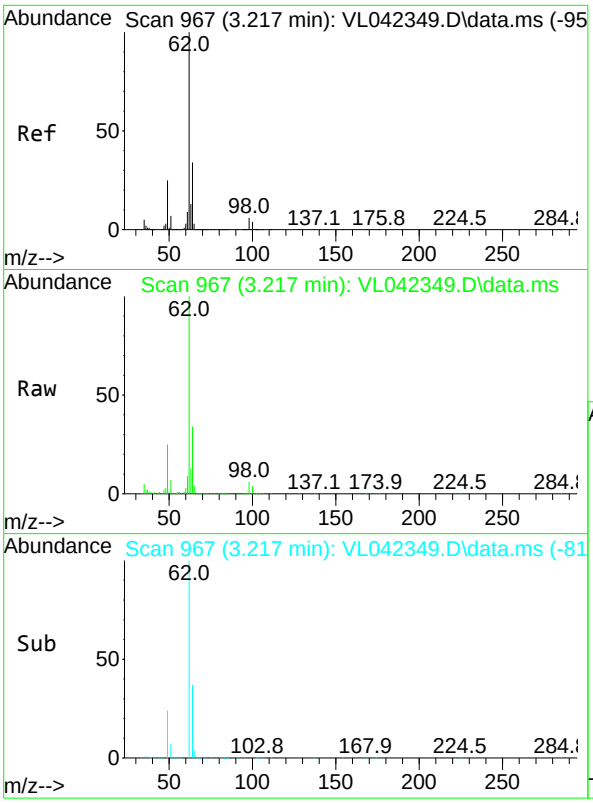


#36
Benzene
Concen: 9.292 ppbv
RT: 3.654 min Scan# 1102
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

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

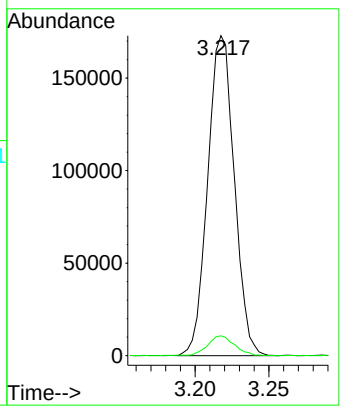
Tgt Ion: 62 Resp: 21699

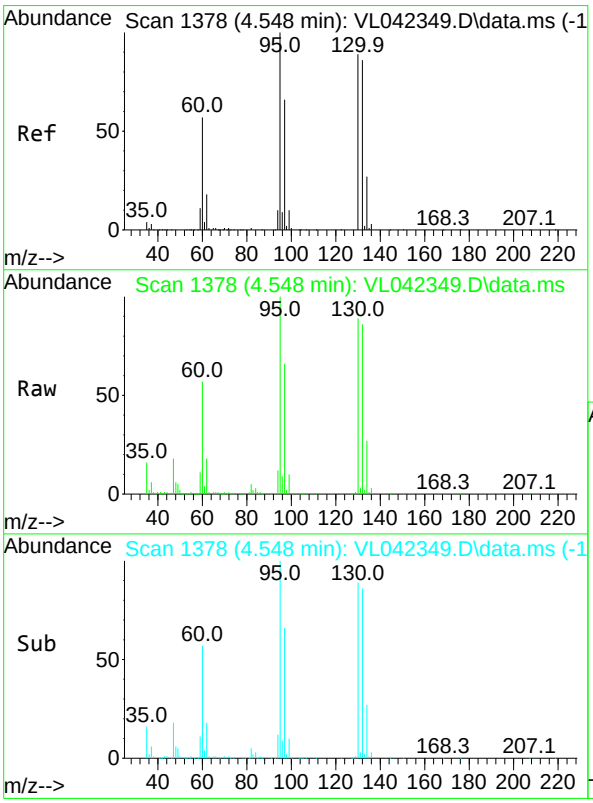
Ion	Ratio	Lower	Upper
62	100		
98	6.4	5.1	7.7

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

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

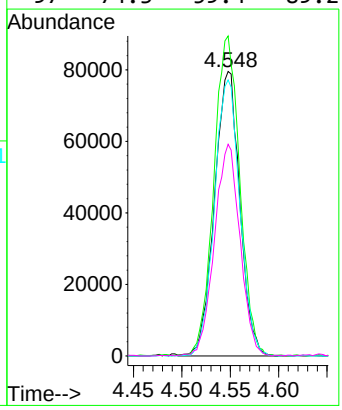


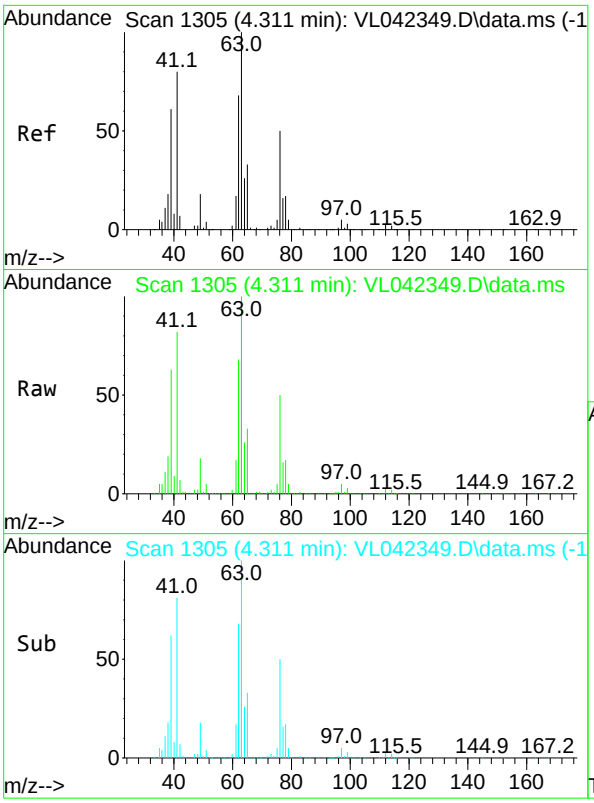


#38
Trichloroethene
Concen: 8.352 ppbv
RT: 4.548 min Scan# 1378
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

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

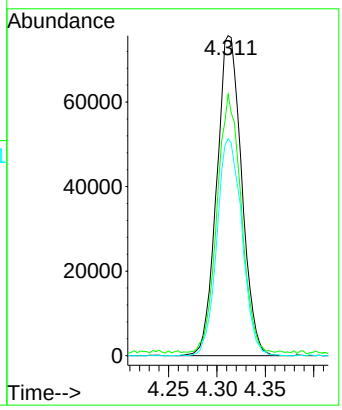




#39
1,2-Dichloropropane
Concen: 9.197 ppbv
RT: 4.311 min Scan# 1
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 63 Resp: 13560

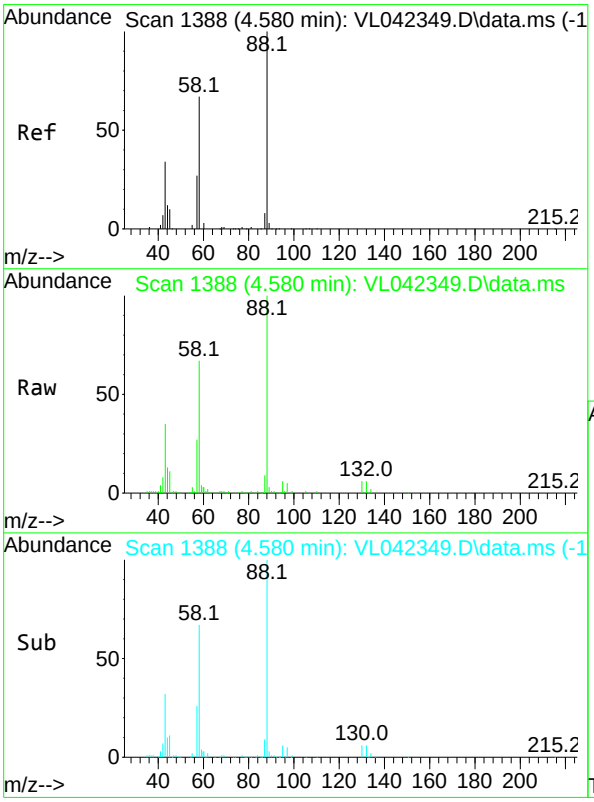
Ion	Ratio	Lower	Upper
63	100		
41	80.2	64.2	96.2
62	67.9	54.3	81.5



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

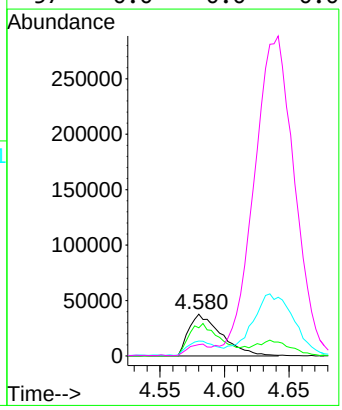
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

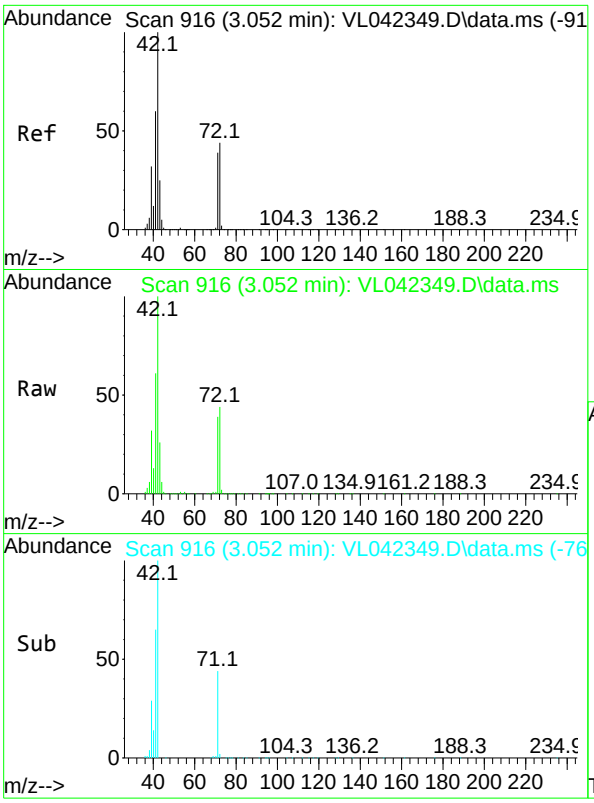


#40
1,4-Dioxane
Concen: 8.348 ppbv
RT: 4.580 min Scan# 1388
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

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

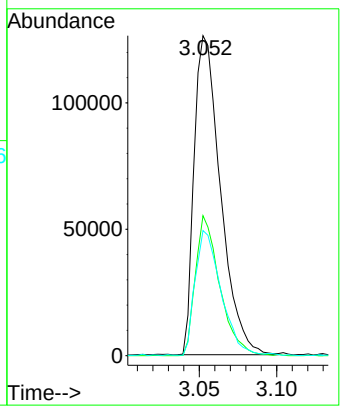




#41
Tetrahydrofuran
Concen: 8.950 ppbv
RT: 3.052 min Scan# 9
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 42 Resp: 14990

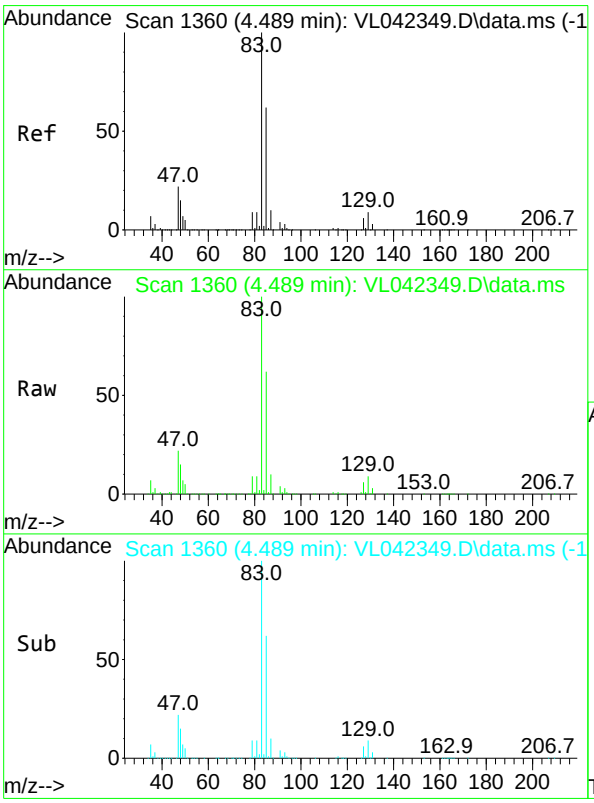
Ion	Ratio	Lower	Upper
42	100		
72	40.4	32.3	48.5
71	39.3	31.4	47.2



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

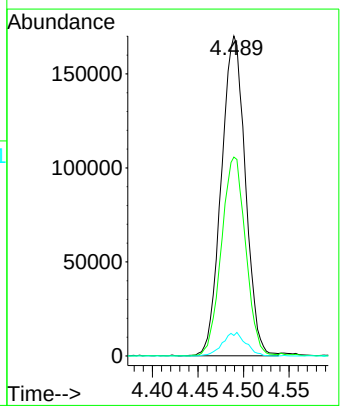
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

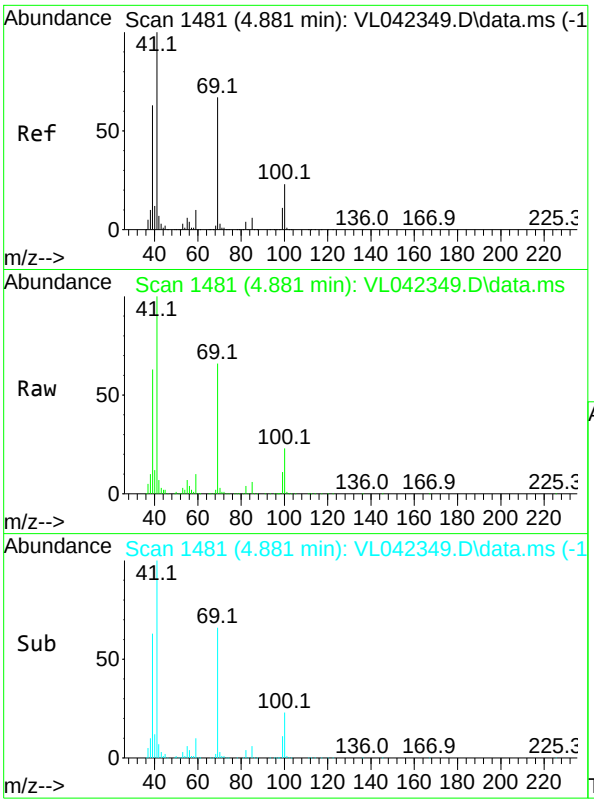


#42
Bromodichloromethane
Concen: 9.456 ppbv
RT: 4.489 min Scan# 1360
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

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

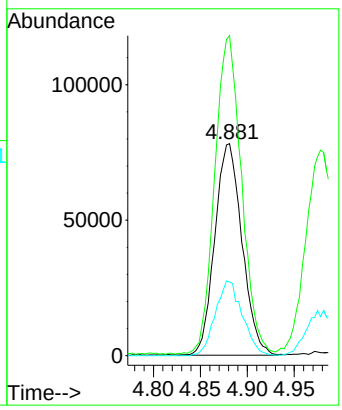




#43
Methyl Methacrylate
Concen: 8.876 ppbv
RT: 4.881 min Scan# 14
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 69 Resp: 15750

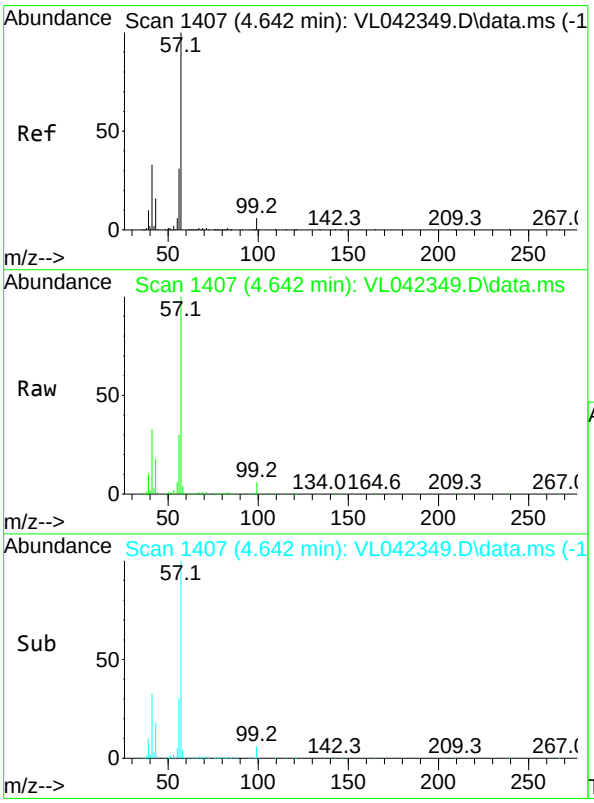
Ion	Ratio	Lower	Upper
69	100		
41	148.2	118.6	177.8
100	35.2	28.2	42.2



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations APPROVED

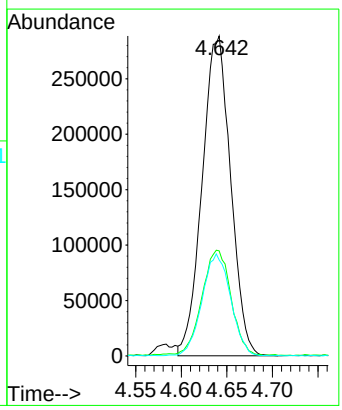
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

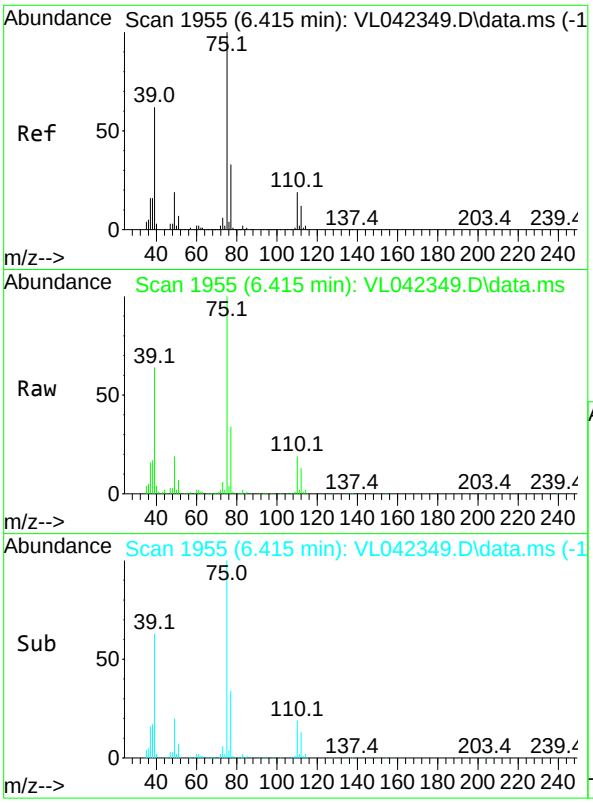


#44
2,2,4-Trimethylpentane
Concen: 9.157 ppbv
RT: 4.642 min Scan# 1407
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

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

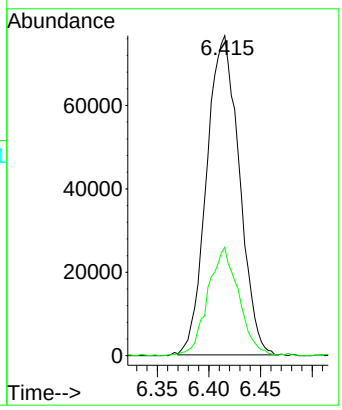




#45
t-1,3-Dichloropropene
Concen: 9.233 ppbv
RT: 6.415 min Scan# 1
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 75 Resp: 16822

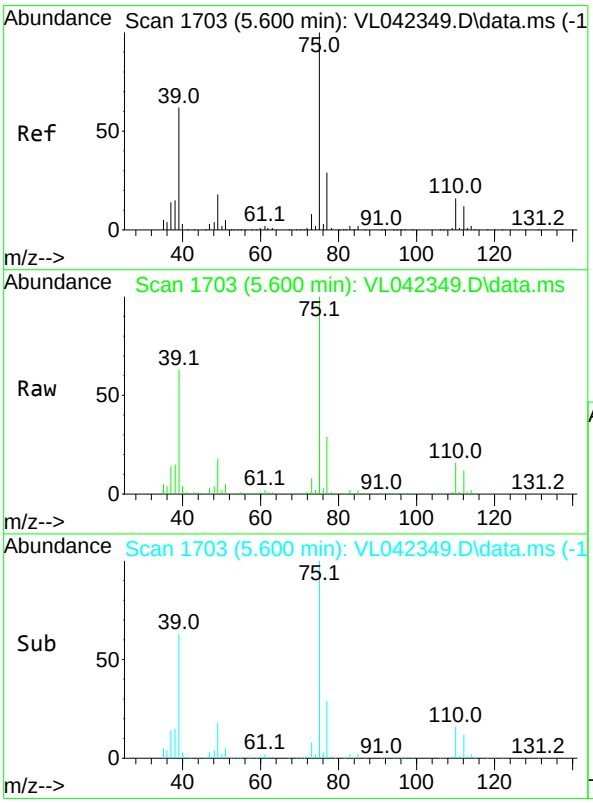
Ion	Ratio	Lower	Upper
75	100		
77	33.8	27.0	40.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

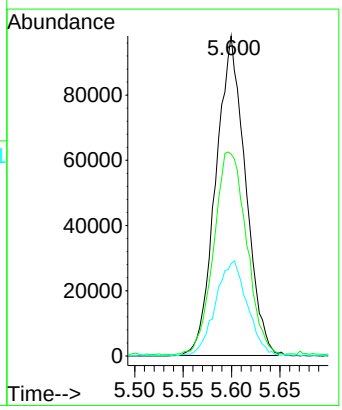
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

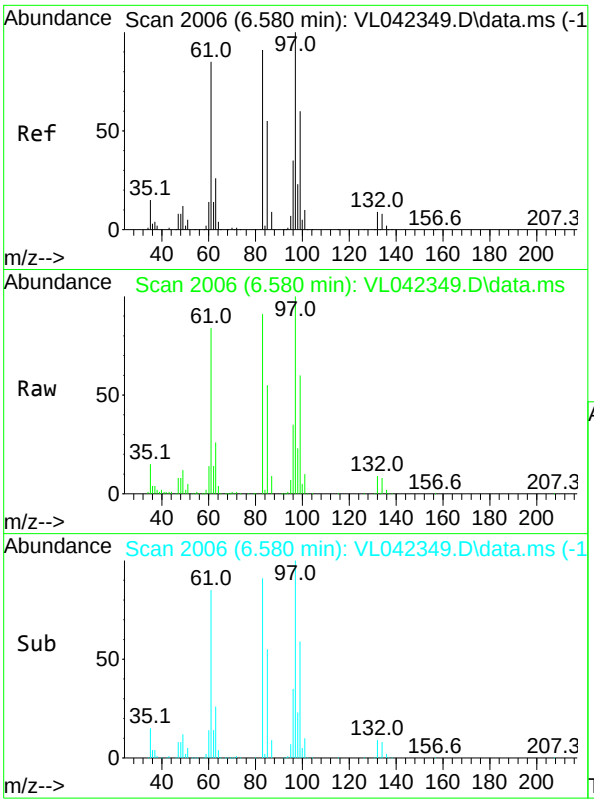


#46
cis-1,3-Dichloropropene
Concen: 9.377 ppbv
RT: 5.600 min Scan# 1703
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

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

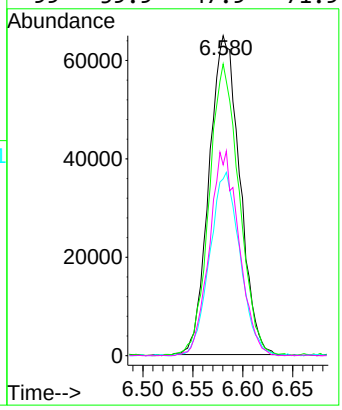




#47
1,1,2-Trichloroethane
Concen: 9.181 ppbv
RT: 6.580 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 97 Resp: 13789

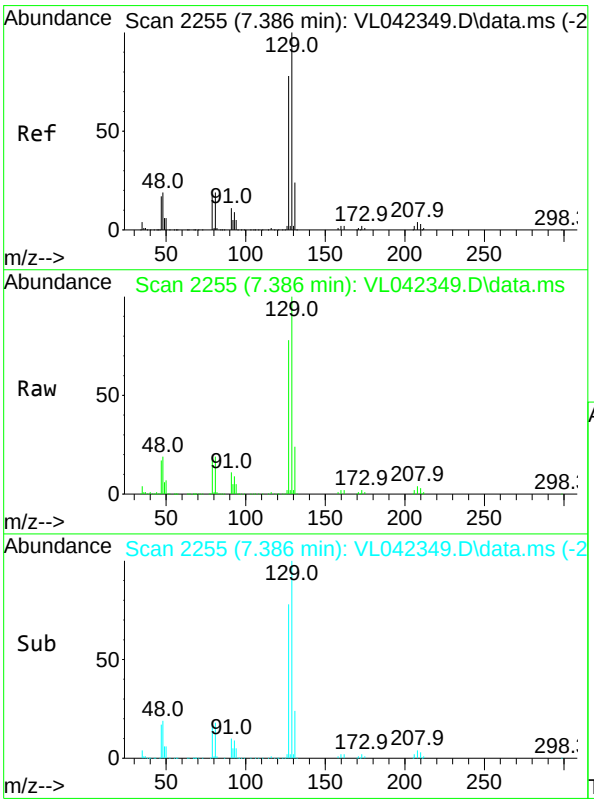
Ion	Ratio	Lower	Upper
97	100		
83	91.0	72.8	109.2
85	55.3	44.2	66.4
99	59.9	47.9	71.9



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

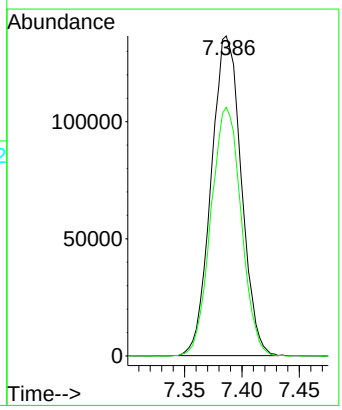
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

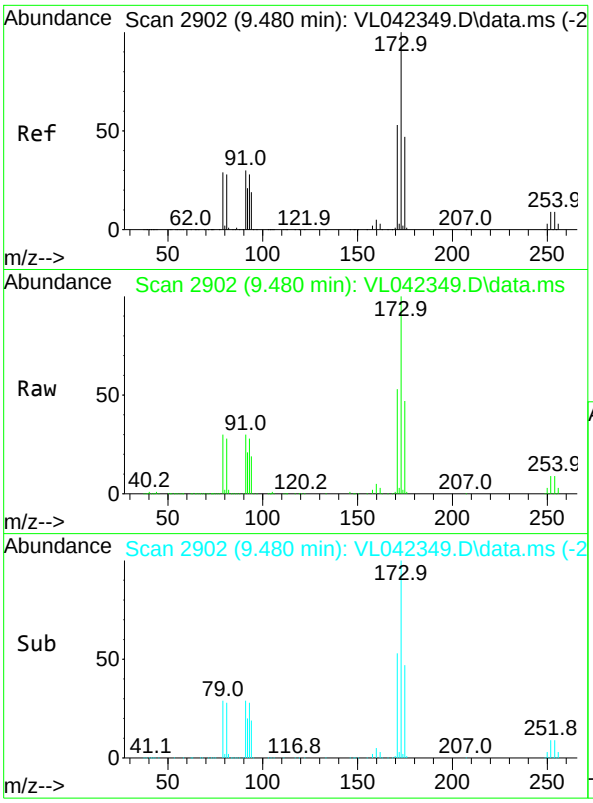


#48
Dibromochloromethane
Concen: 9.388 ppbv
RT: 7.386 min Scan# 2255
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion:129 Resp: 248954

Ion	Ratio	Lower	Upper
129	100		
127	78.2	39.1	117.3

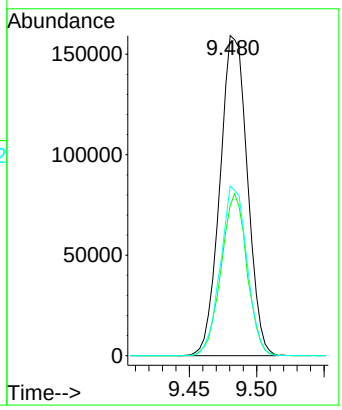




#49
Bromoform
Concen: 9.734 ppbv
RT: 9.480 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion:173 Resp: 22570

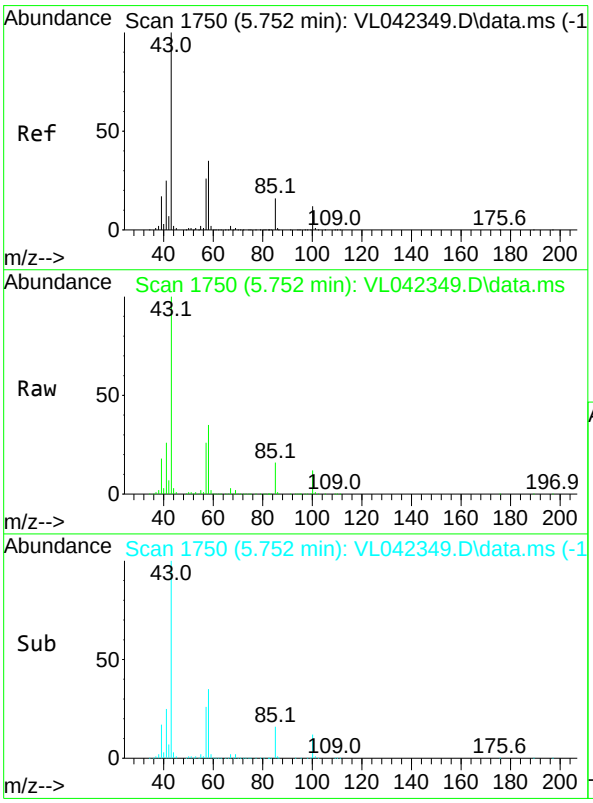
Ion	Ratio	Lower	Upper
173	100		
175	47.7	38.2	57.2
171	51.1	40.9	61.3



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

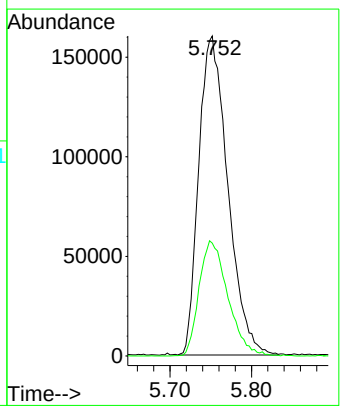
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

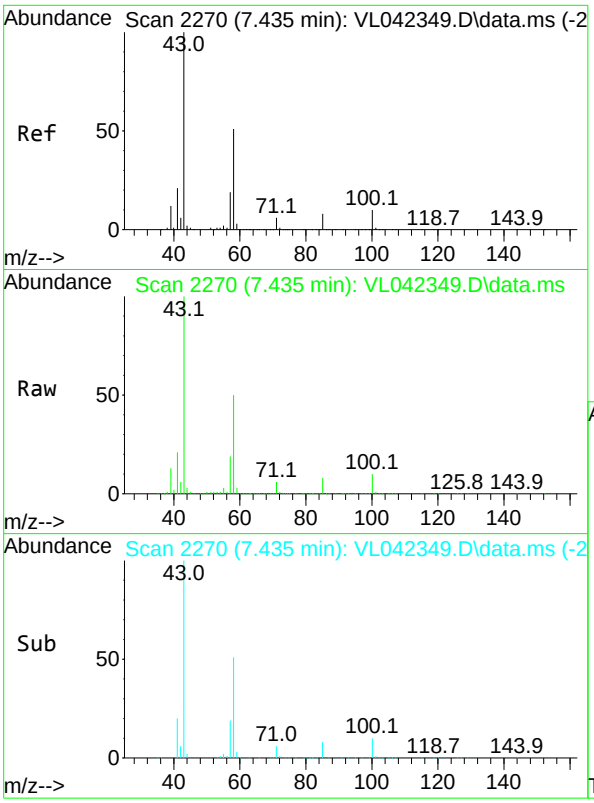


#50
4-Methyl-2-Pentanone
Concen: 8.215 ppbv
RT: 5.752 min Scan# 1750
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 43 Resp: 396548

Ion	Ratio	Lower	Upper
43	100		
58	35.8	28.6	43.0

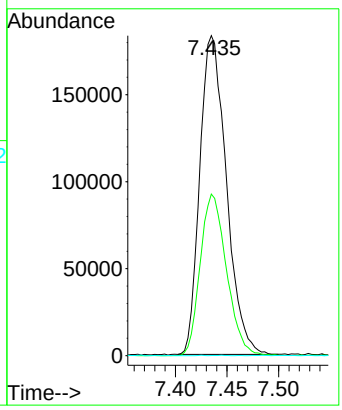




#51
2-Hexanone
Concen: 7.511 ppbv
RT: 7.435 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 43 Resp: 32716

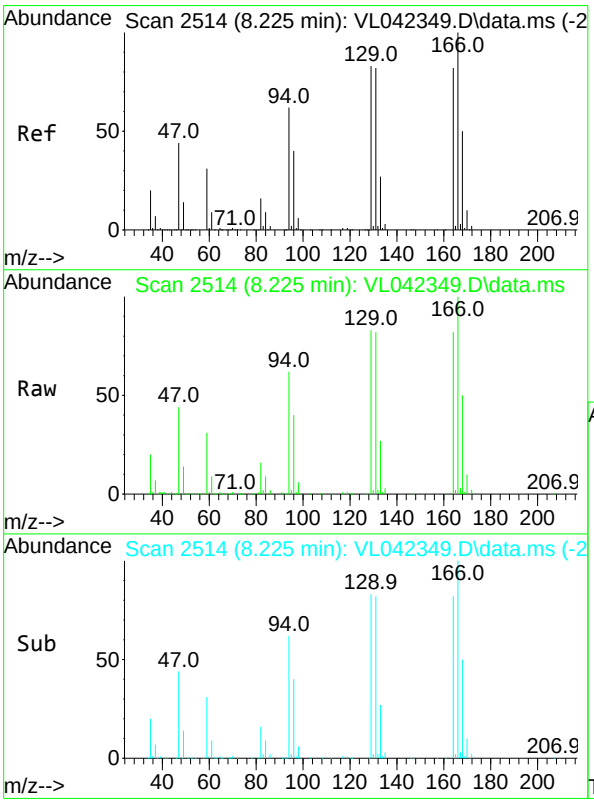
Ion	Ratio	Lower	Upper
43	100		
58	50.3	40.2	60.4
98	0.1	0.1	0.1



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

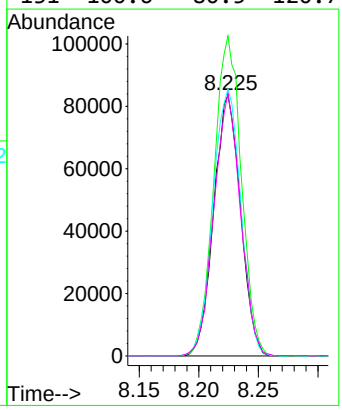
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

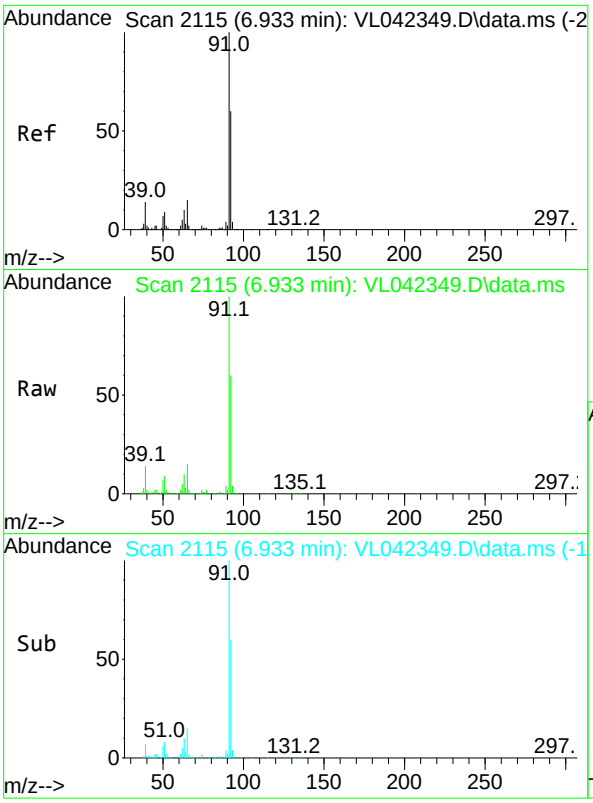


#52
Tetrachloroethene
Concen: 8.553 ppbv
RT: 8.225 min Scan# 2514
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

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

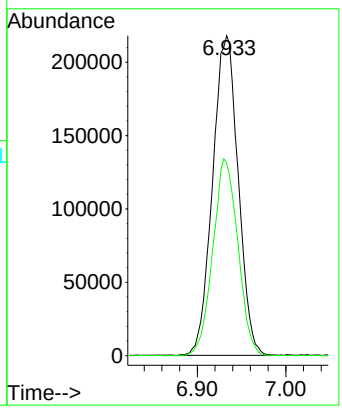




#53
Toluene
Concen: 9.216 ppbv
RT: 6.933 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 91 Resp: 43725

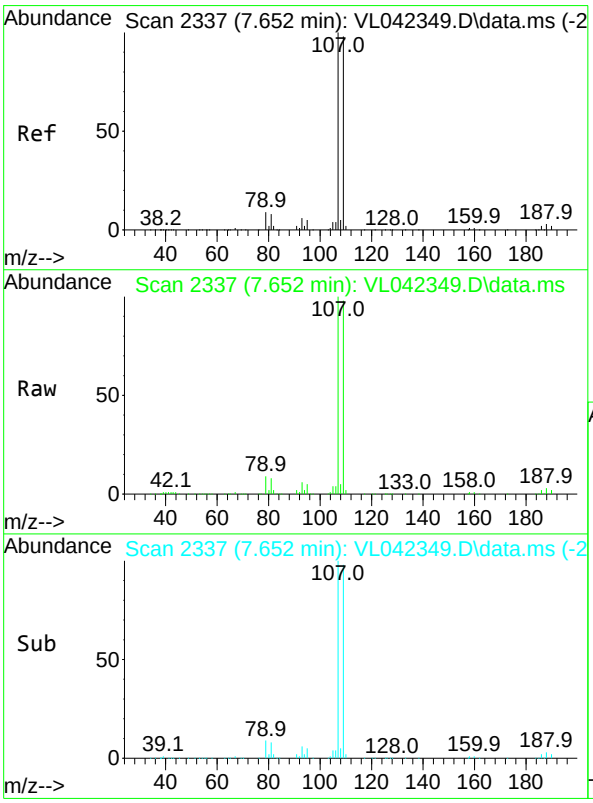
Ion	Ratio	Lower	Upper
91	100		
92	60.3	48.2	72.4



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

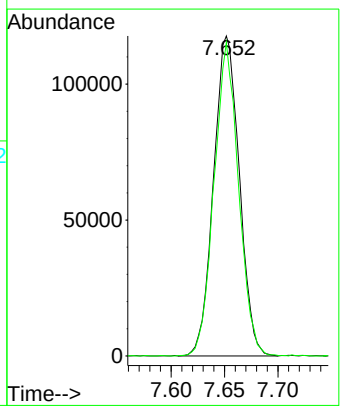
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

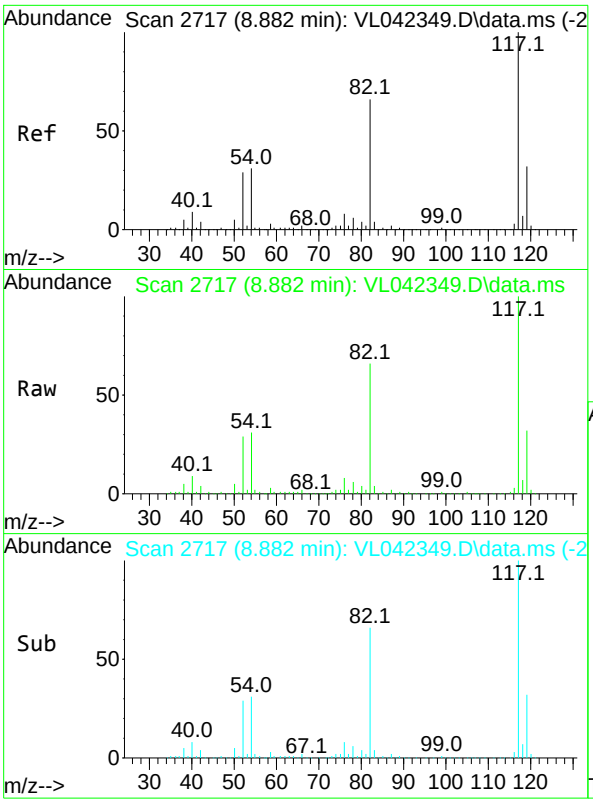


#54
1,2-Dibromoethane
Concen: 9.235 ppbv
RT: 7.652 min Scan# 2337
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion:107 Resp: 197665

Ion	Ratio	Lower	Upper
107	100		
109	97.8	78.2	117.4

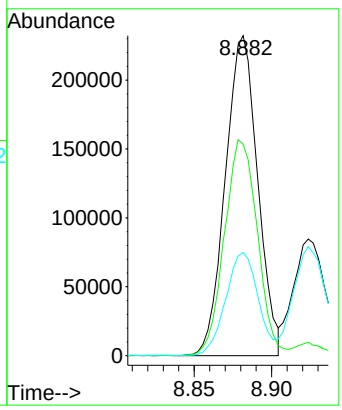




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.882 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion:117 Resp: 33812

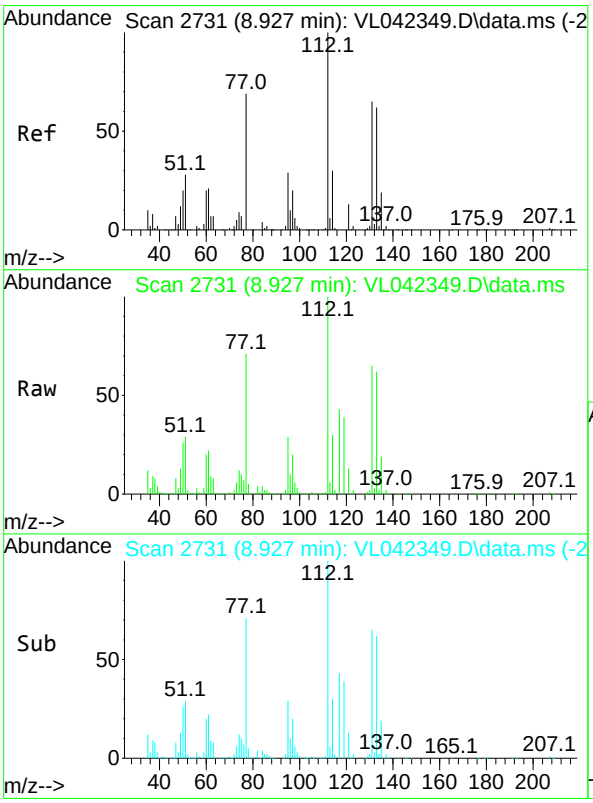
Ion	Ratio	Lower	Upper
117	100		
82	72.2	57.8	86.6
119	31.5	25.2	37.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

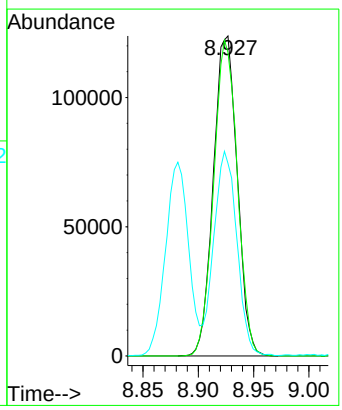
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

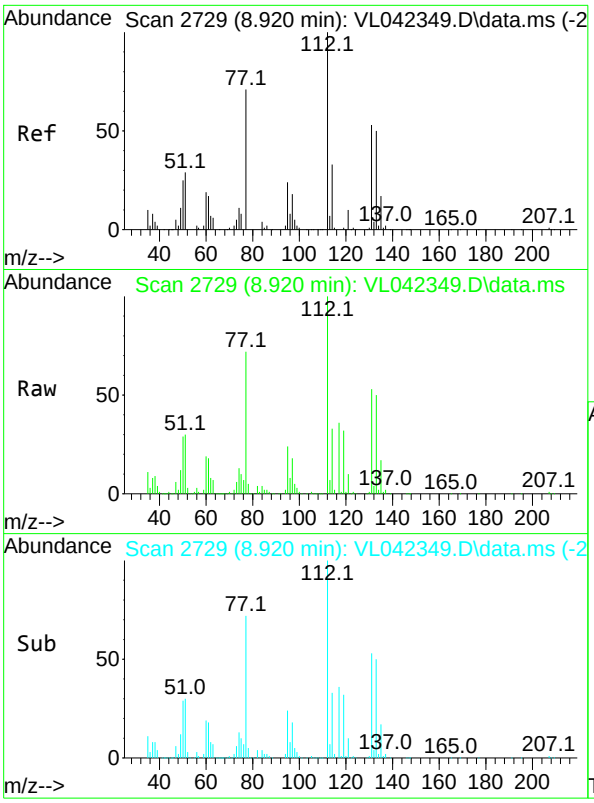


#56
1,1,1,2-Tetrachloroethane
Concen: 9.091 ppbv
RT: 8.927 min Scan# 2731
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

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

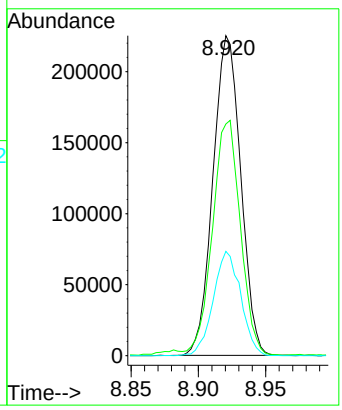




#57
Chlorobenzene
Concen: 9.187 ppbv
RT: 8.920 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion:112 Resp: 32308

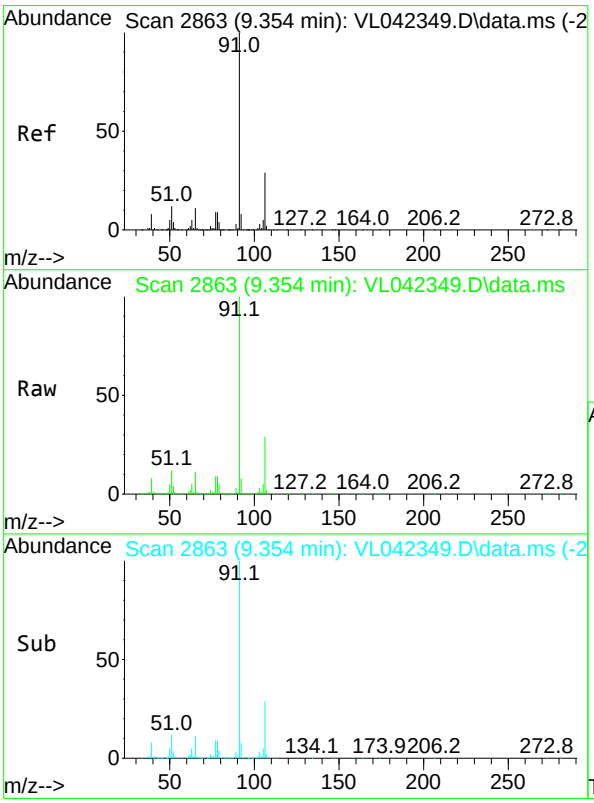
Ion	Ratio	Lower	Upper
112	100		
77	72.2	57.8	86.6
114	32.6	29.3	35.9



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations APPROVED

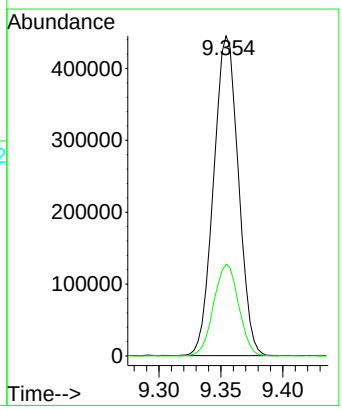
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

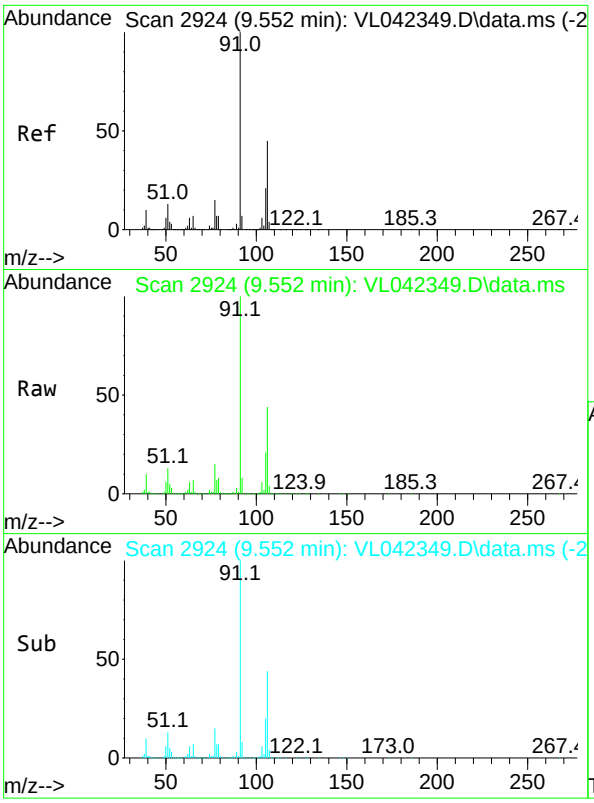


#58
Ethyl Benzene
Concen: 9.248 ppbv
RT: 9.354 min Scan# 2863
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 91 Resp: 619581

Ion	Ratio	Lower	Upper
91	100		
106	28.7	23.0	34.4

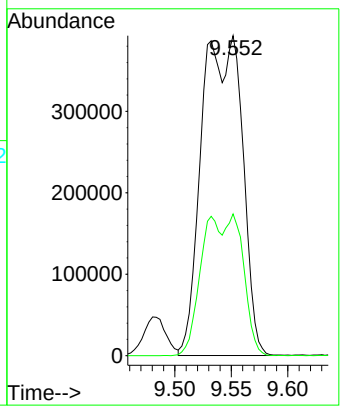




#59
m/p-Xylene
Concen: 18.187 ppbv m
RT: 9.552 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 91 Resp: 98445

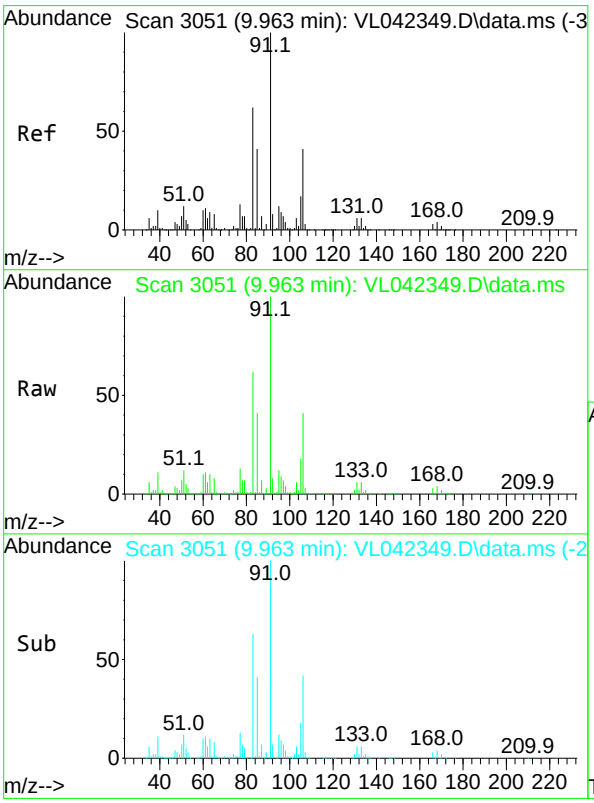
Ion	Ratio	Lower	Upper
91	100		
106	44.3	35.4	53.2



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

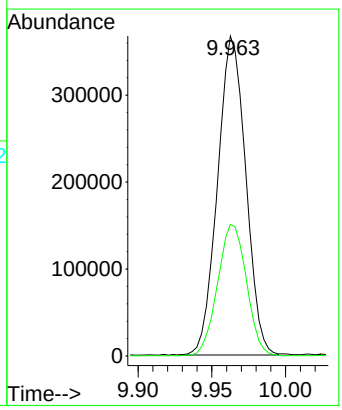
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

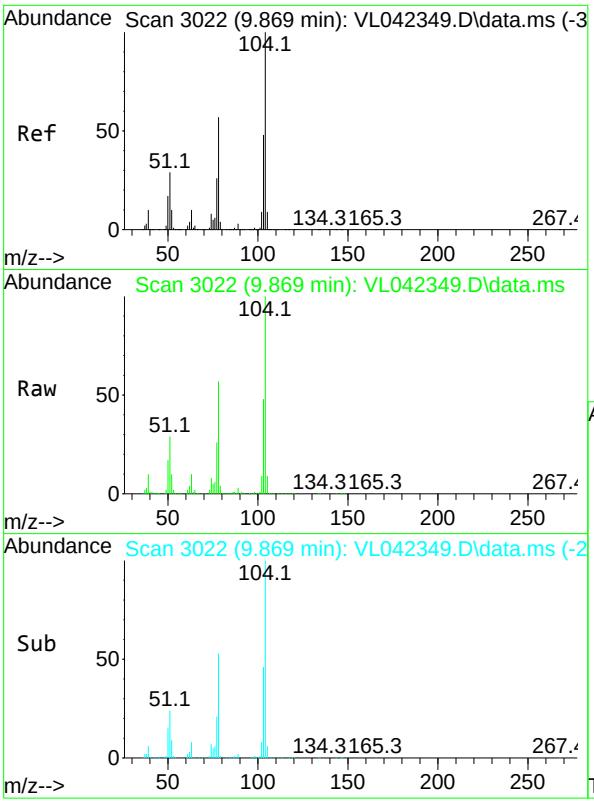


#60
o-Xylene
Concen: 8.972 ppbv
RT: 9.963 min Scan# 3051
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 91 Resp: 487616

Ion	Ratio	Lower	Upper
91	100		
106	42.3	21.1	63.4

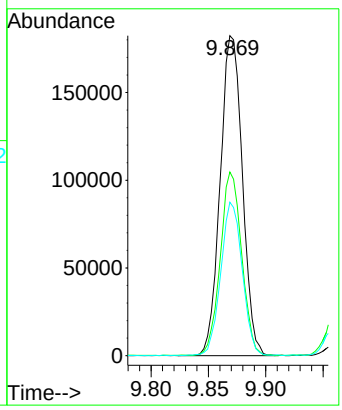




#61
Styrene
Concen: 9.464 ppbv
RT: 9.869 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion:104 Resp: 24548

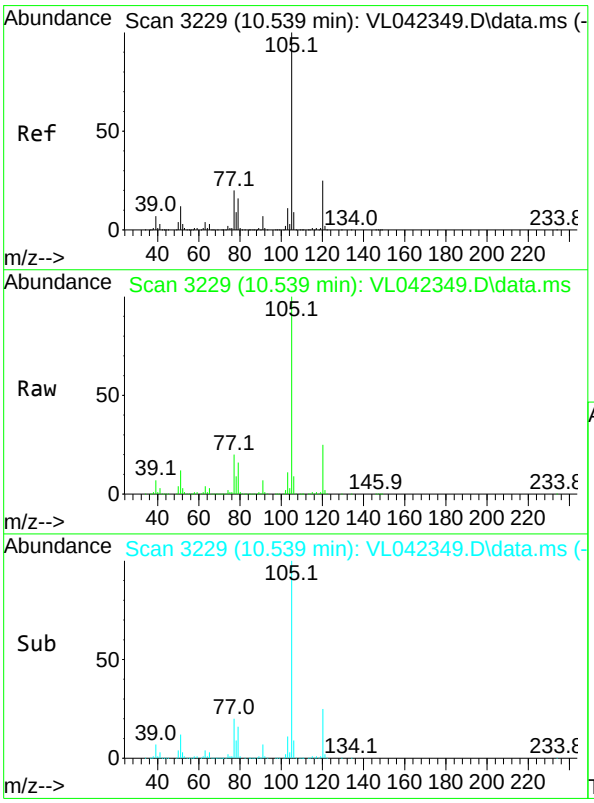
Ion	Ratio	Lower	Upper
104	100		
78	55.7	44.6	66.8
103	46.7	37.4	56.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

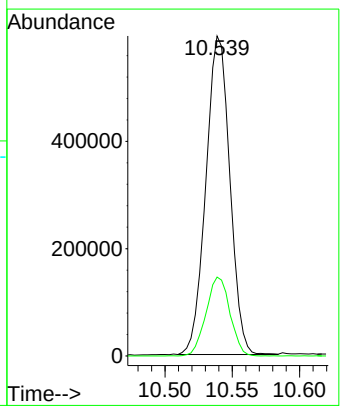
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

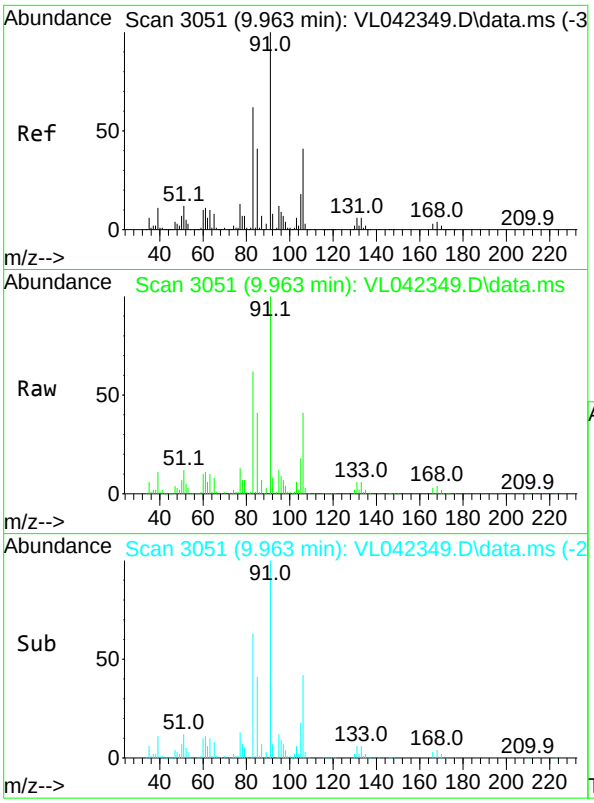


#62
Isopropylbenzene
Concen: 9.197 ppbv
RT: 10.539 min Scan# 3229
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion:105 Resp: 733788

Ion	Ratio	Lower	Upper
105	100		
120	24.8	19.8	29.8

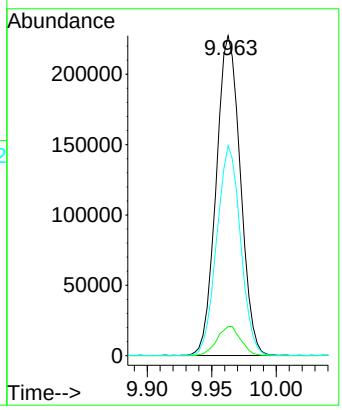




#63
1,1,2,2-Tetrachloroethane
Concen: 8.355 ppbv
RT: 9.963 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 83 Resp: 29504

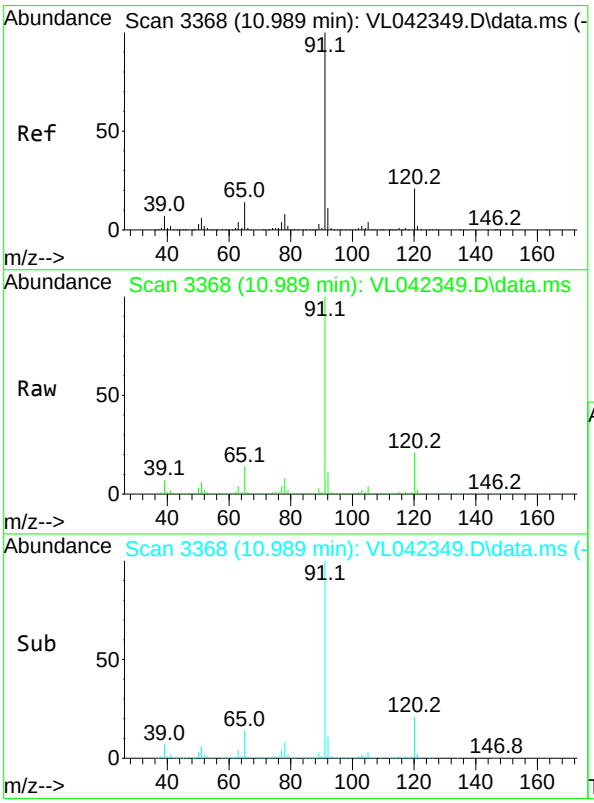
Ion	Ratio	Lower	Upper
83	100		
131	9.1	4.5	13.7
85	64.7	32.4	97.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

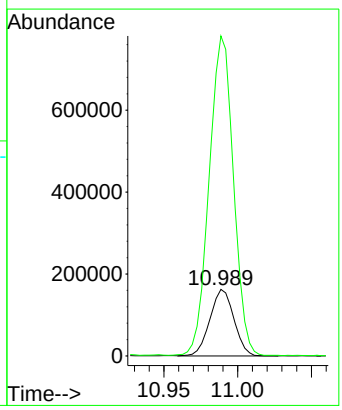
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

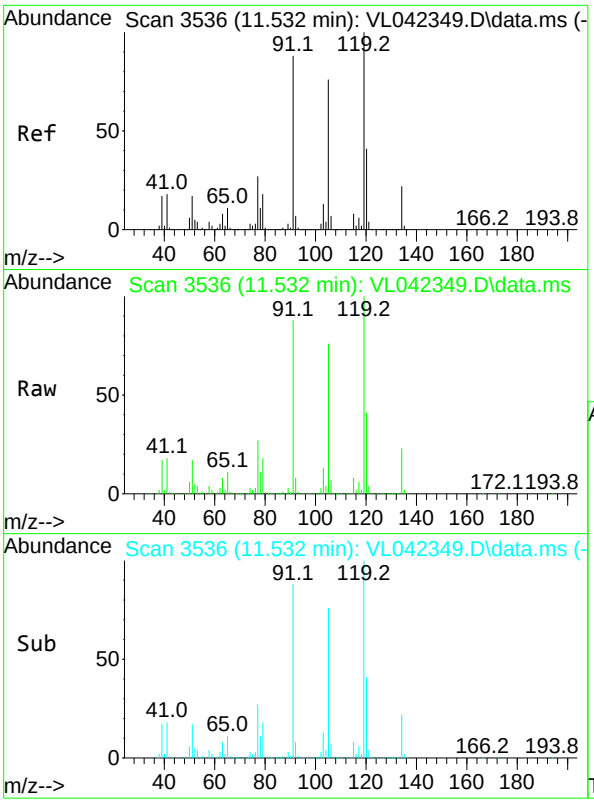


#64
n-propylbenzene
Concen: 9.144 ppbv
RT: 10.989 min Scan# 3368
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion:120 Resp: 183390

Ion	Ratio	Lower	Upper
120	100		
91	490.5	392.4	588.6

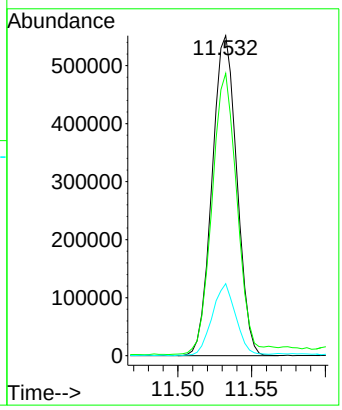




#65
tert-Butylbenzene
Concen: 8.795 ppbv
RT: 11.532 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion:119 Resp: 64495

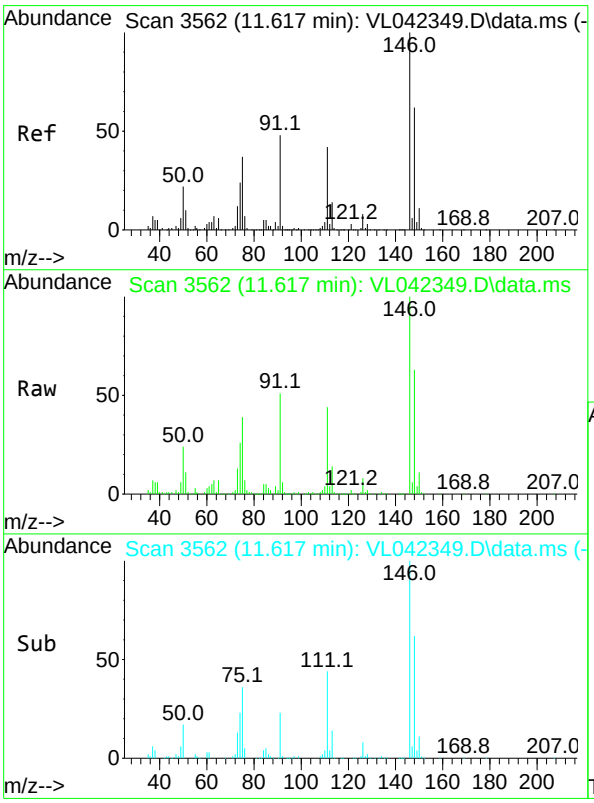
Ion	Ratio	Lower	Upper
119	100		
91	93.2	74.6	111.8
134	23.5	18.8	28.2



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

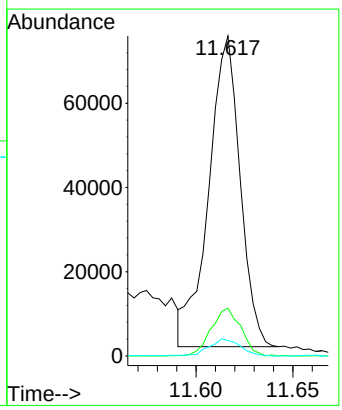
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

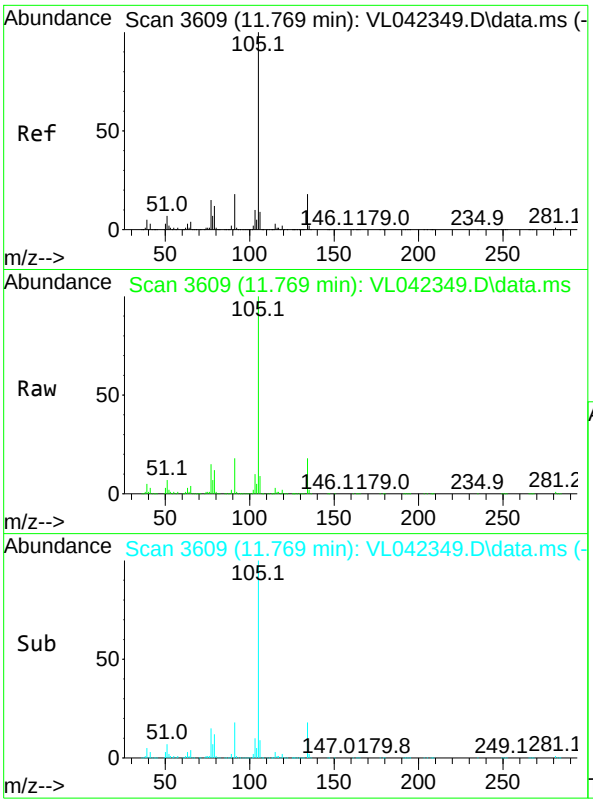


#66
Benzyl Chloride
Concen: 10.333 ppbv
RT: 11.617 min Scan# 3562
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

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

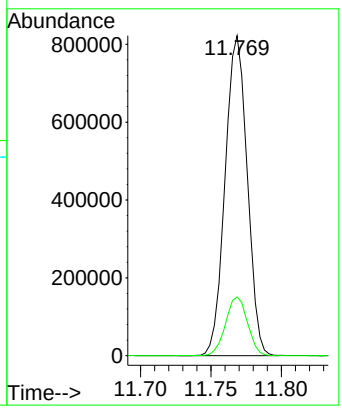




#67
sec-Butylbenzene
Concen: 8.824 ppbv
RT: 11.769 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion:105 Resp: 90007

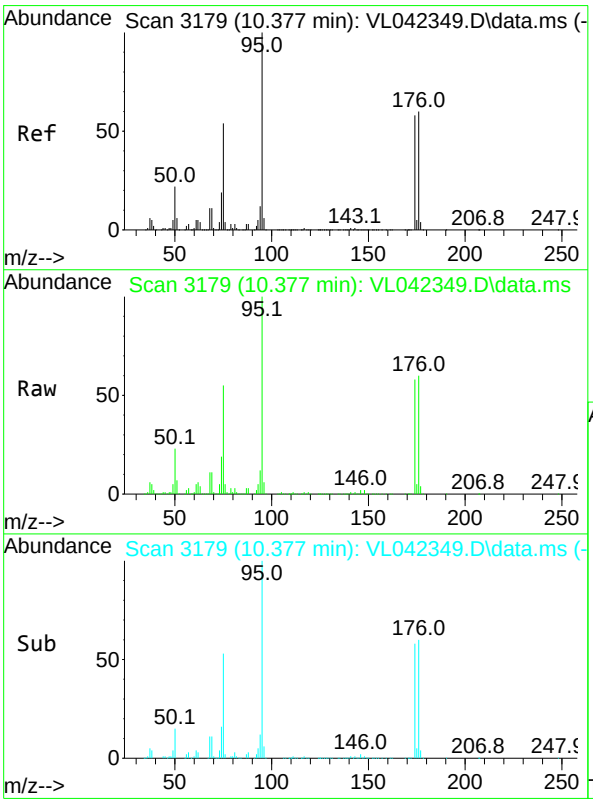
Ion	Ratio	Lower	Upper
105	100		
134	18.2	14.6	21.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

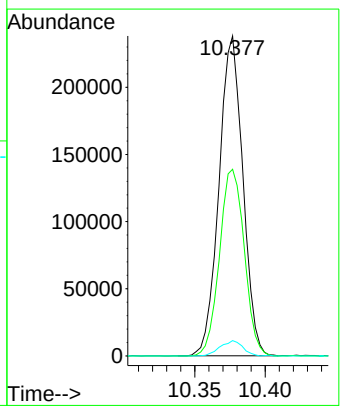
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

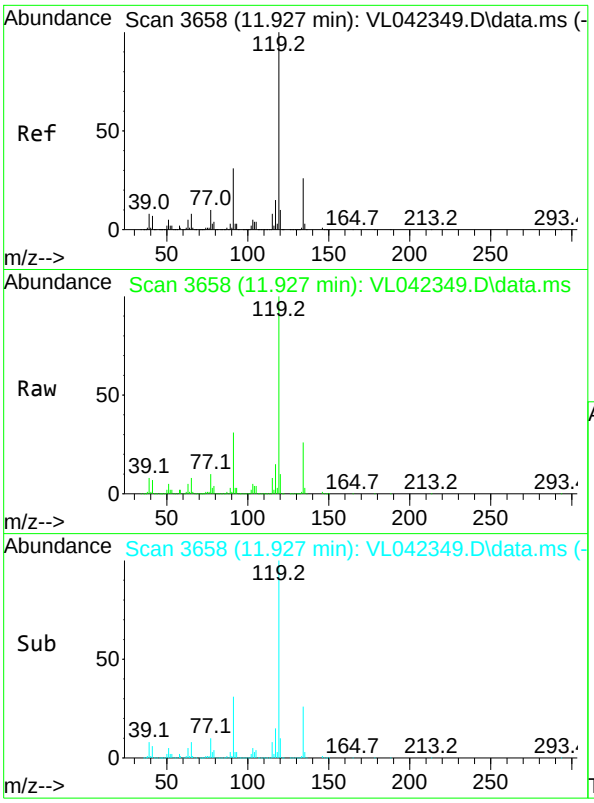


#68
1-Bromo-4-Fluorobenzene
Concen: 10.114 ppbv
RT: 10.377 min Scan# 3179
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

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

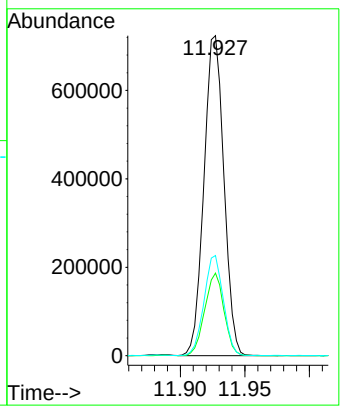




#69
p-Isopropyltoluene
Concen: 8.790 ppbv
RT: 11.927 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion:119 Resp: 77898

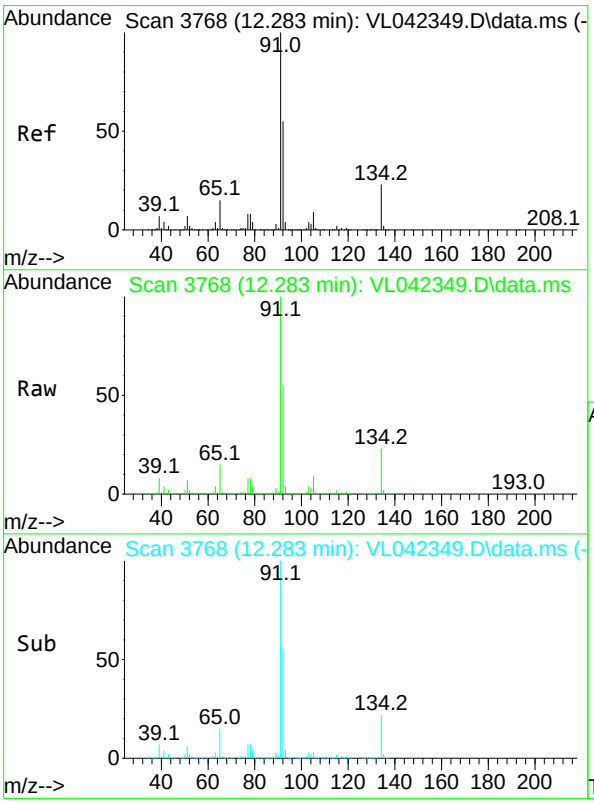
Ion	Ratio	Lower	Upper
119	100		
134	25.0	20.0	30.0
91	30.5	24.4	36.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

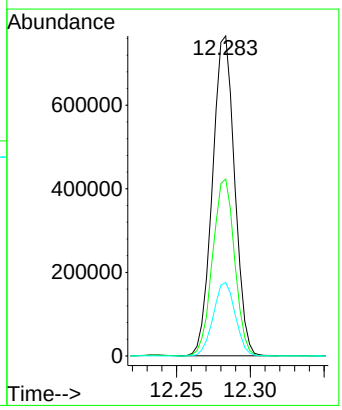
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

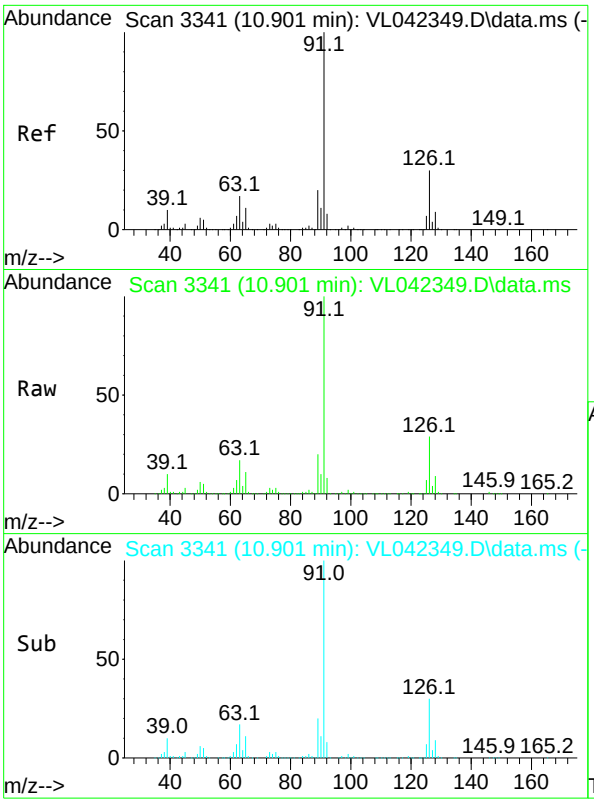


#70
n-Butylbenzene
Concen: 8.682 ppbv
RT: 12.283 min Scan# 3768
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

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

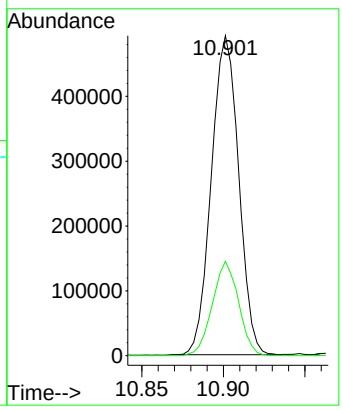




#71
2-Chlorotoluene
Concen: 9.157 ppbv
RT: 10.901 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 91 Resp: 57303

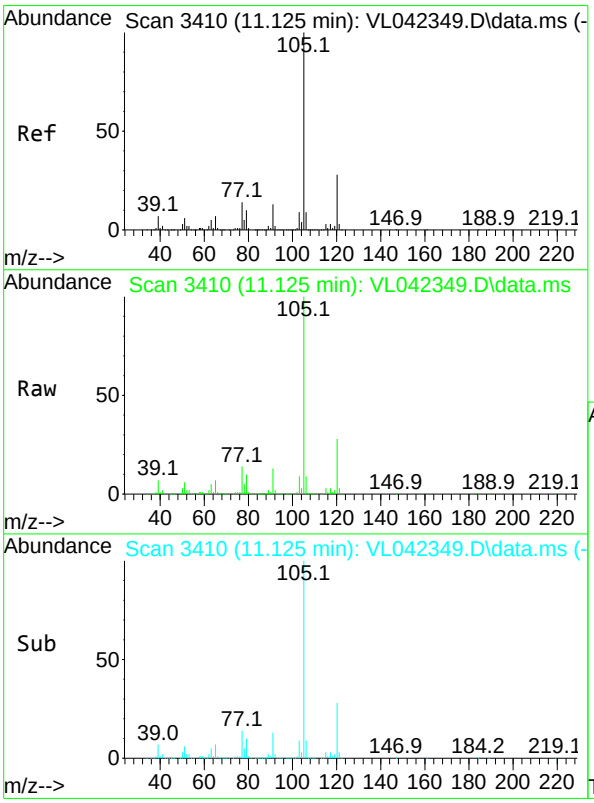
Ion	Ratio	Lower	Upper
91	100		
126	28.4	11.4	45.4



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

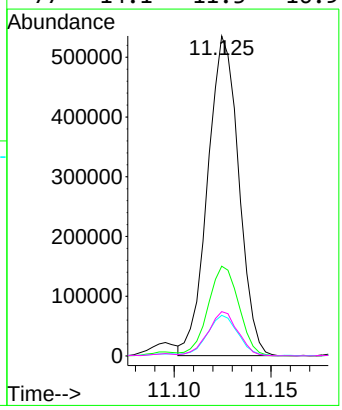
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

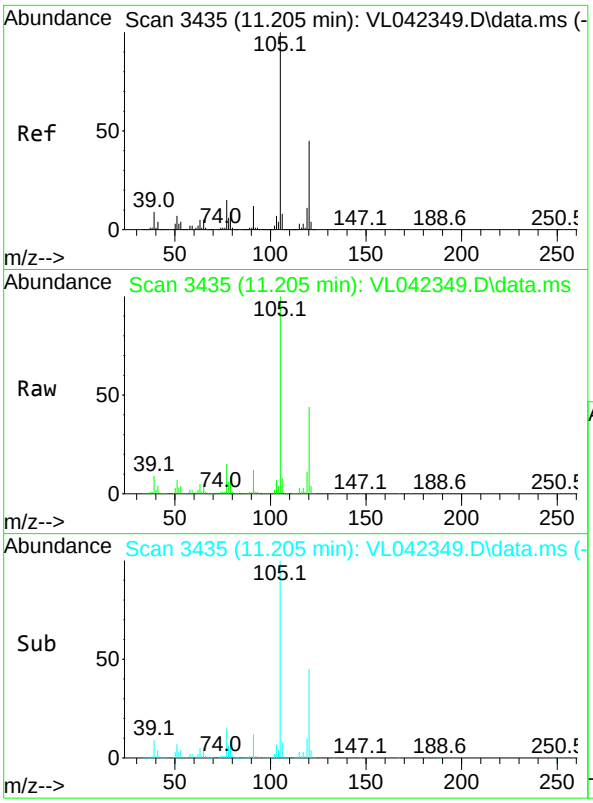


#72
4-Ethyltoluene
Concen: 8.982 ppbv
RT: 11.125 min Scan# 3410
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

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

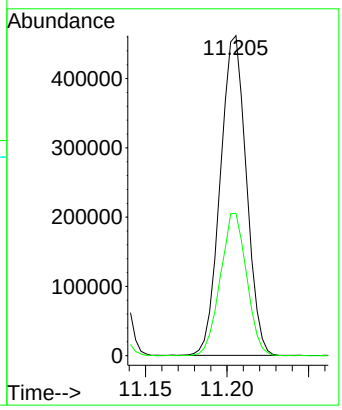




#73
1,3,5-Trimethylbenzene
Concen: 8.743 ppbv
RT: 11.205 min Scan# 34
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion:105 Resp: 51285

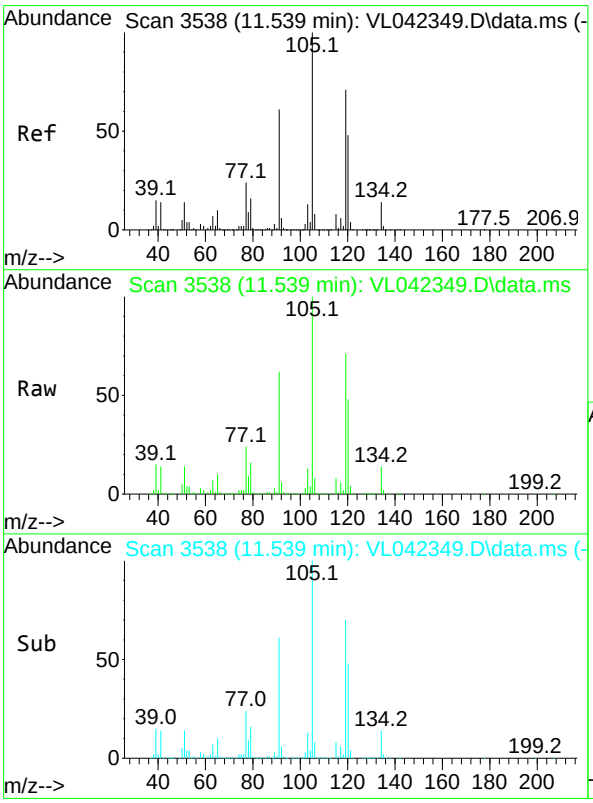
Ion	Ratio	Lower	Upper
105	100		
120	44.5	35.6	53.4



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

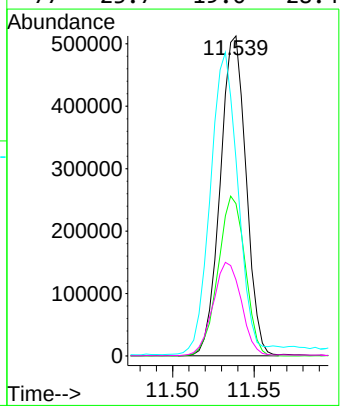
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

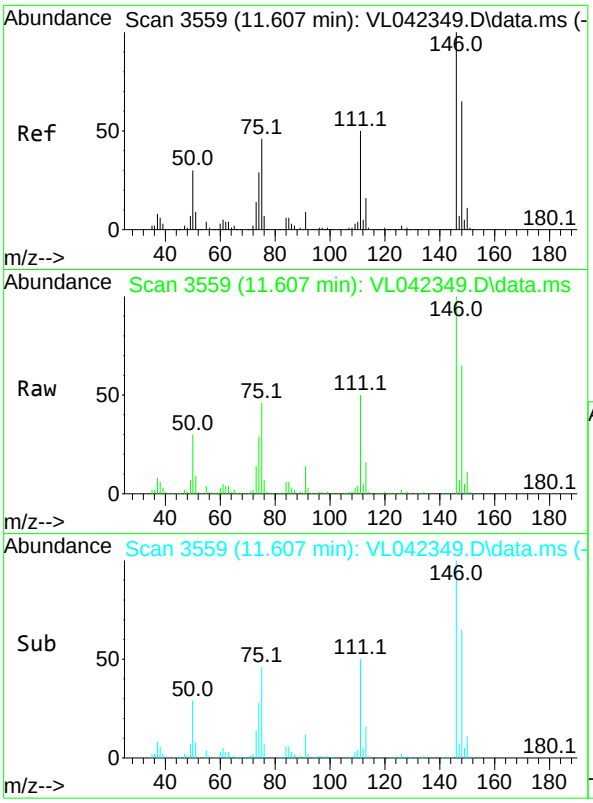


#74
1,2,4-Trimethylbenzene
Concen: 8.248 ppbv
RT: 11.539 min Scan# 3538
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

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

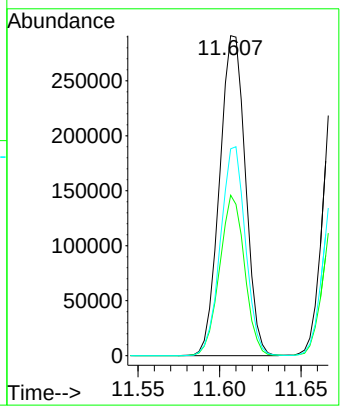




#75
1,3-Dichlorobenzene
Concen: 8.997 ppbv
RT: 11.607 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion:146 Resp: 32038

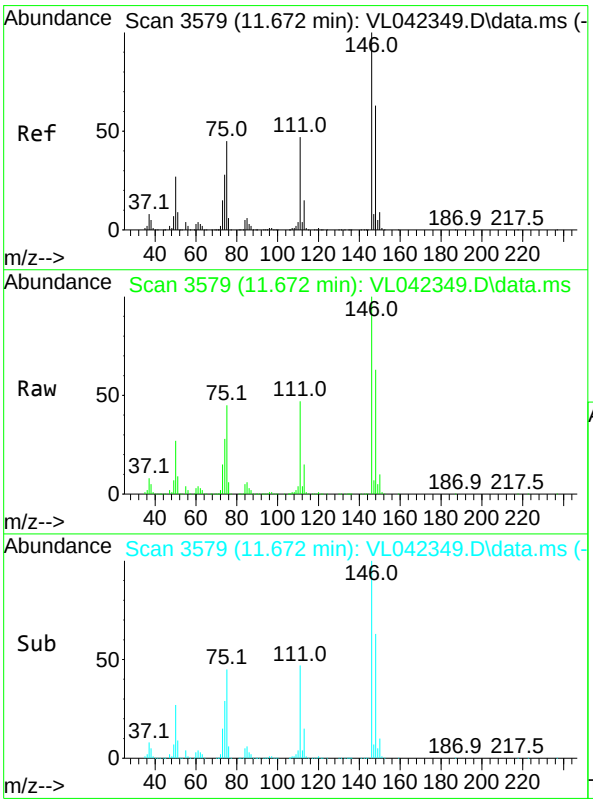
Ion	Ratio	Lower	Upper
146	100		
111	48.5	24.3	72.8
148	63.2	31.6	94.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

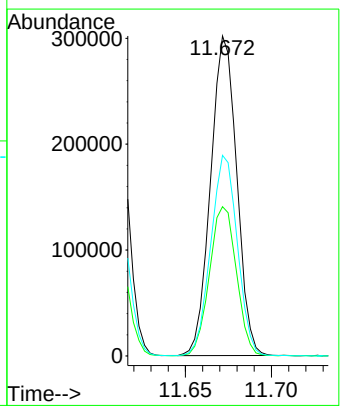
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

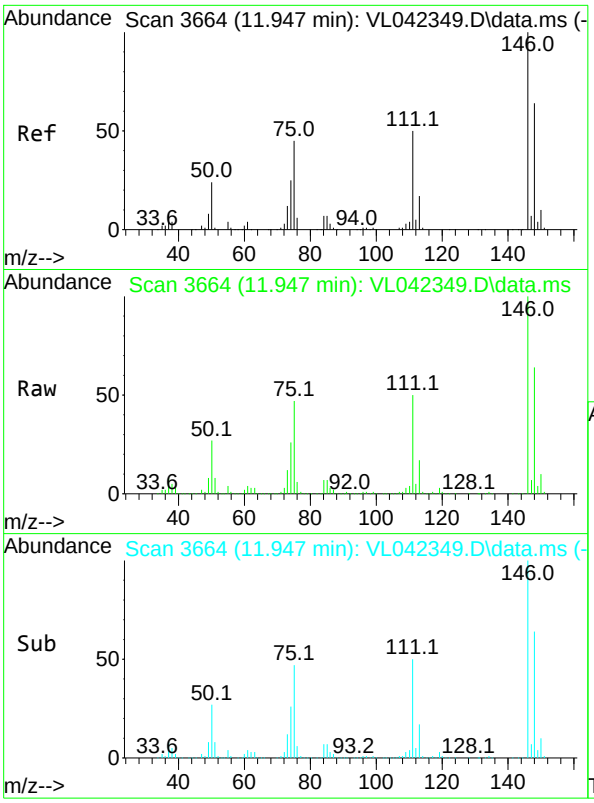


#76
1,4-Dichlorobenzene
Concen: 8.915 ppbv
RT: 11.672 min Scan# 3579
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

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

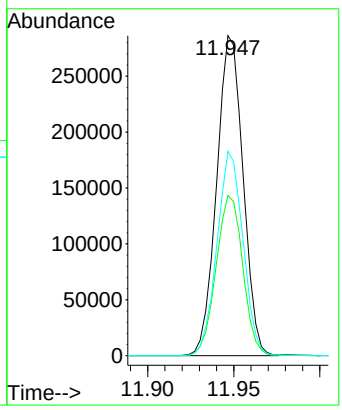




#77
1,2-Dichlorobenzene
Concen: 8.832 ppbv
RT: 11.947 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion:146 Resp: 30582

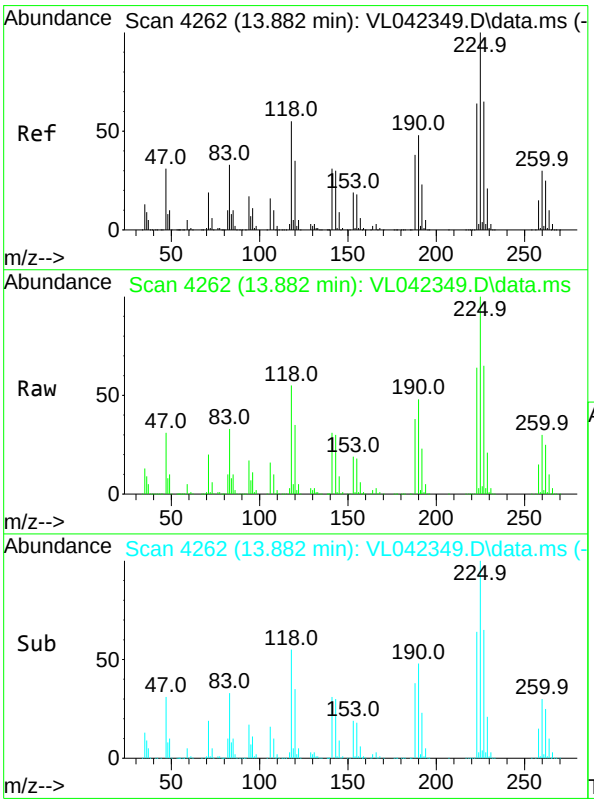
Ion	Ratio	Lower	Upper
146	100		
111	50.6	25.3	75.9
148	63.0	31.5	94.5



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

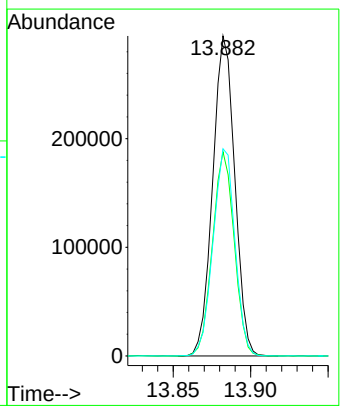
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

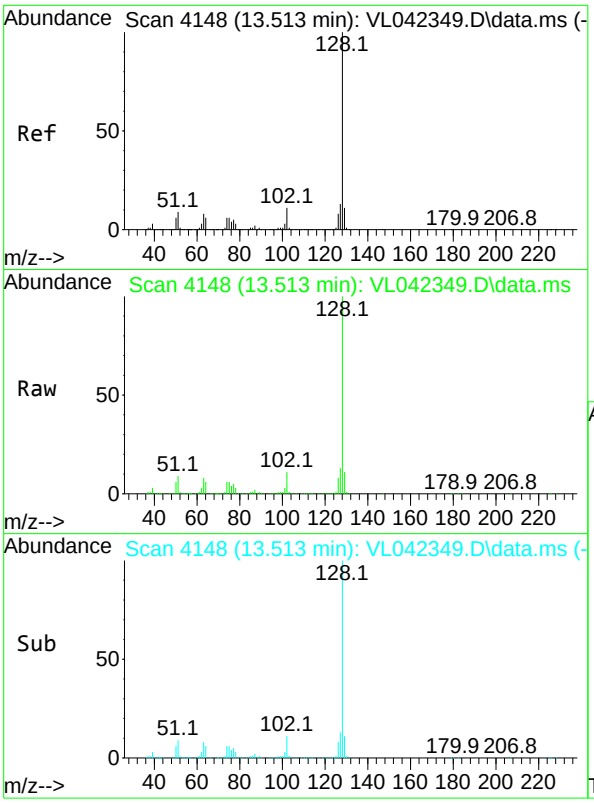


#78
Hexachloro-1,3-Butadiene
Concen: 8.346 ppbv
RT: 13.882 min Scan# 4262
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

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

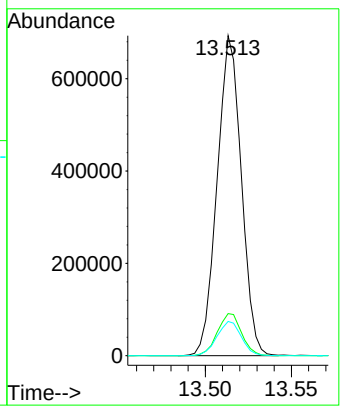




#79
Naphthalene
Concen: 8.271 ppbv
RT: 13.513 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion:128 Resp: 67757

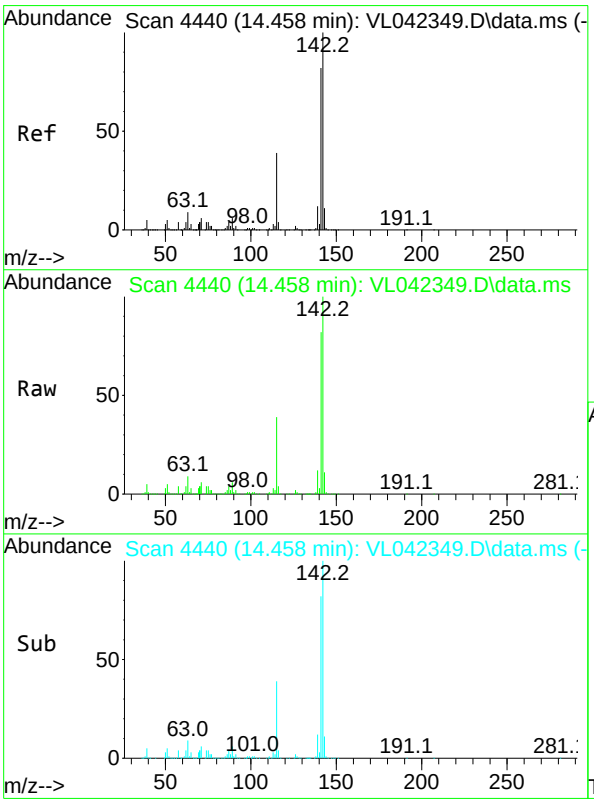
Ion	Ratio	Lower	Upper
128	100		
127	13.2	10.6	15.8
129	10.7	8.6	12.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

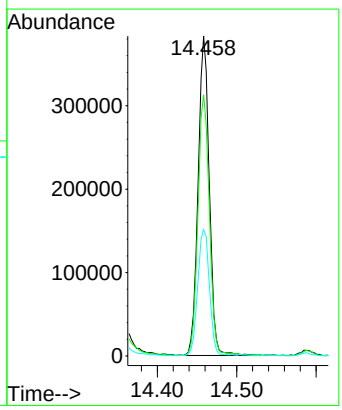
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

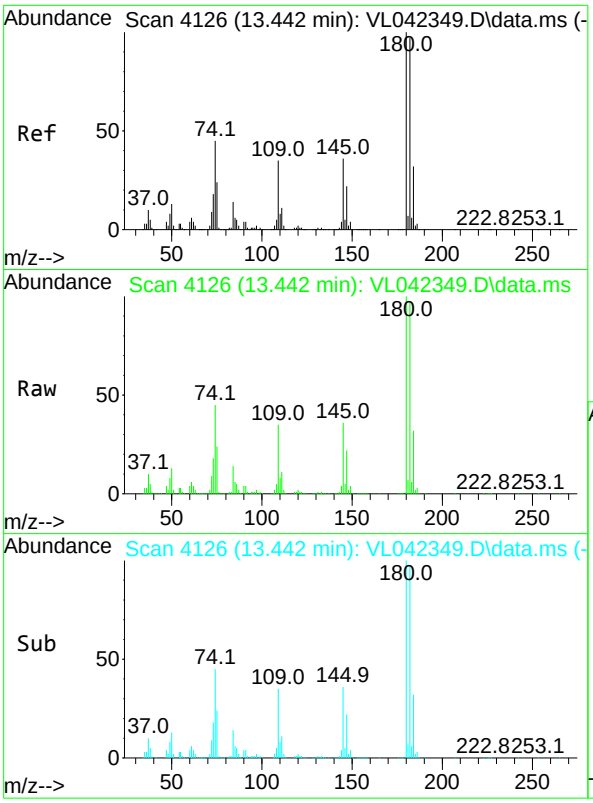


#80
Naphthalene,2-methyl-
Concen: 8.074 ppbv
RT: 14.458 min Scan# 4440
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

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

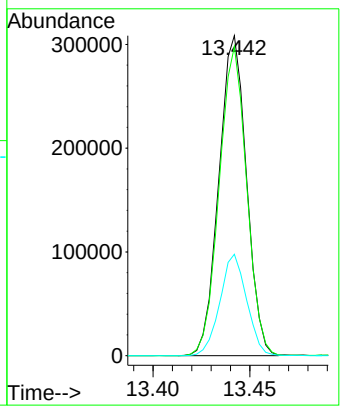




#81
1,2,4-Trichlorobenzene
Concen: 8.702 ppbv
RT: 13.442 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

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

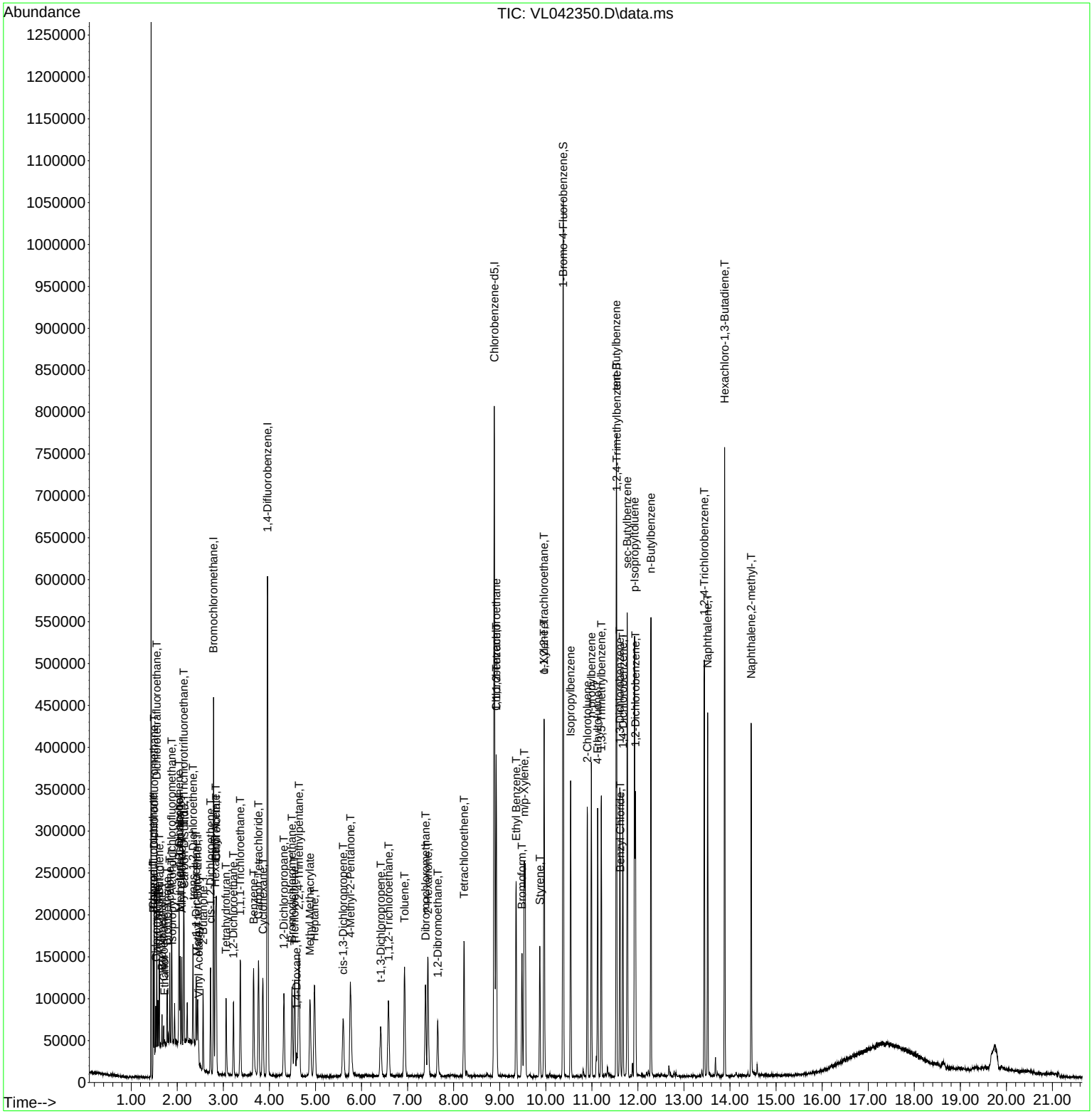
(#) = qualifier out of range (m) = manual integration (+) = signals summed

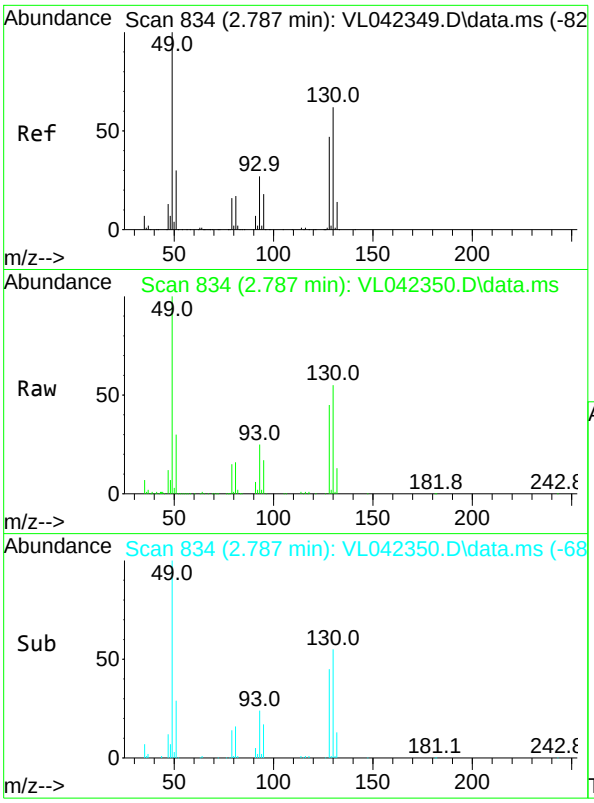
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042350.D
Acq On : 17 Apr 2025 10:17
Operator : SY/MD
Sample : VSTDICC002
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

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

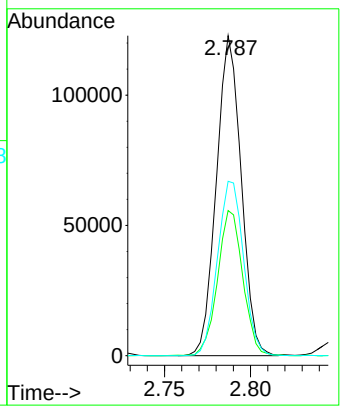




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 49 Resp: 12320

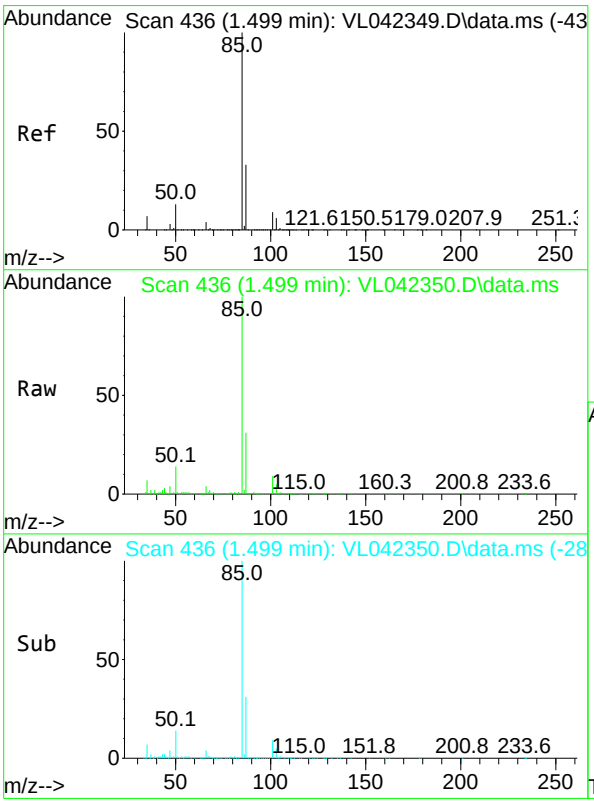
Ion	Ratio	Lower	Upper
49	100		
128	46.2	22.8	68.4
130	57.3	29.3	88.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

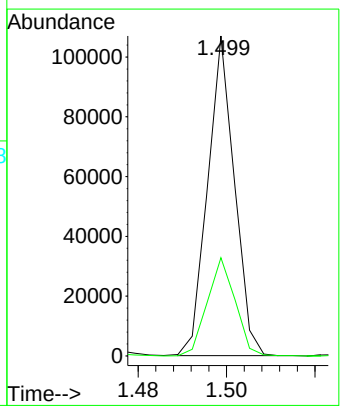
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

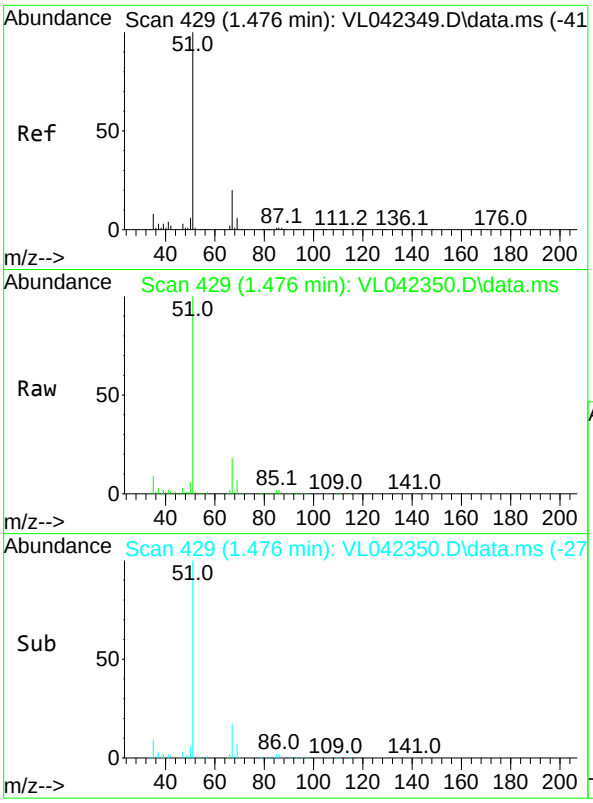


#2
Dichlorodifluoromethane
Concen: 2.068 ppbv
RT: 1.499 min Scan# 436
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 85 Resp: 45008

Ion	Ratio	Lower	Upper
85	100		
87	30.6	26.6	39.8

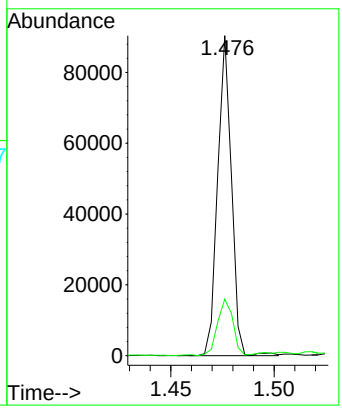




#3
Chlorodifluoromethane
Concen: 2.019 ppbv
RT: 1.476 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 51 Resp: 4185

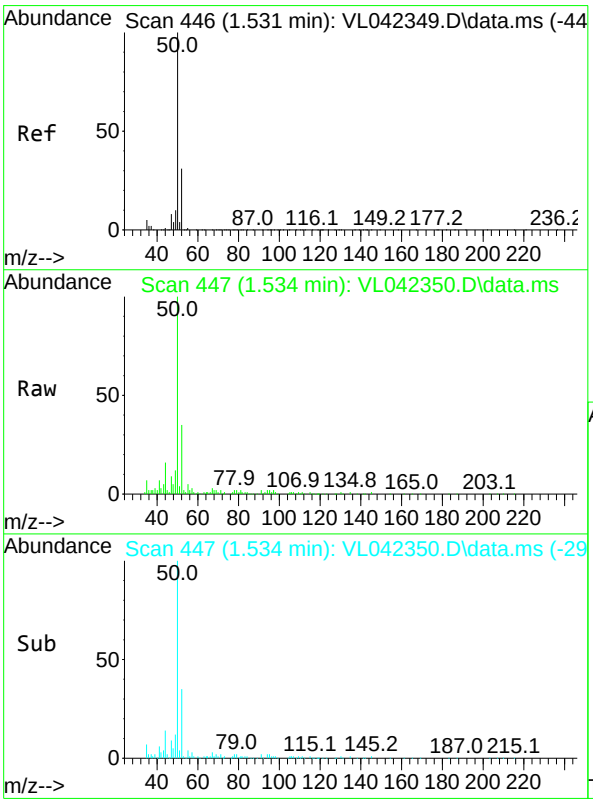
Ion	Ratio	Lower	Upper
51	100		
67	21.7	16.2	24.4



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

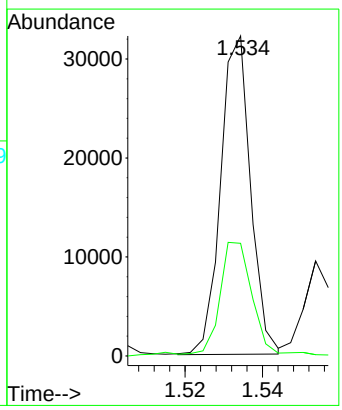
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

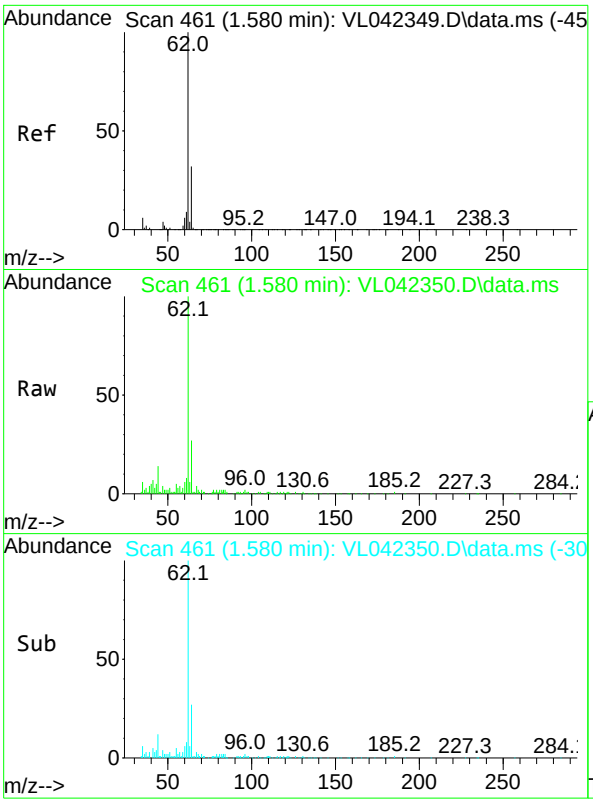


#4
Chloromethane
Concen: 2.005 ppbv
RT: 1.534 min Scan# 447
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 50 Resp: 17272

Ion	Ratio	Lower	Upper
50	100		
52	34.9	24.7	37.1

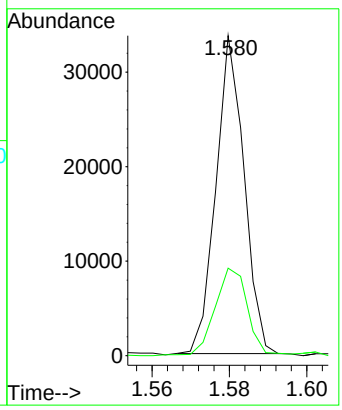




#5
Vinyl Chloride
Concen: 1.811 ppbv
RT: 1.580 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 62 Resp: 1697

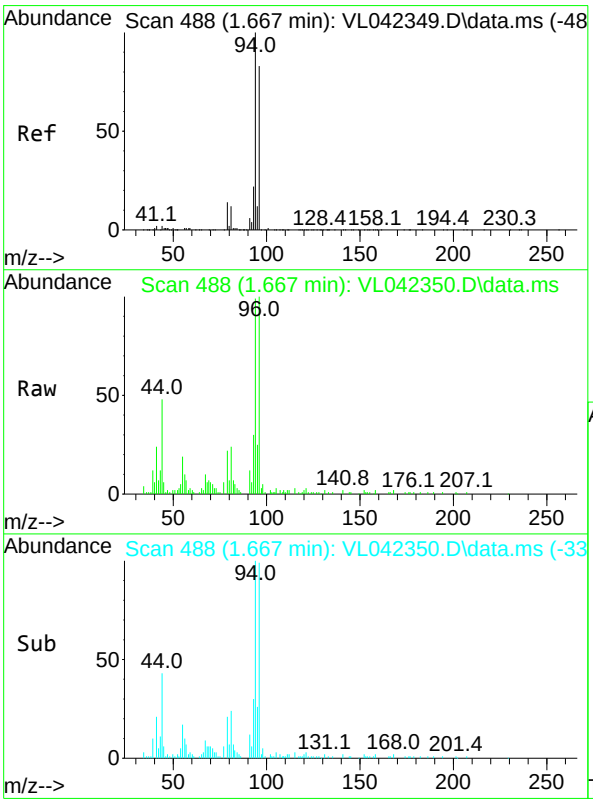
Ion	Ratio	Lower	Upper
62	100		
64	27.2	25.4	38.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

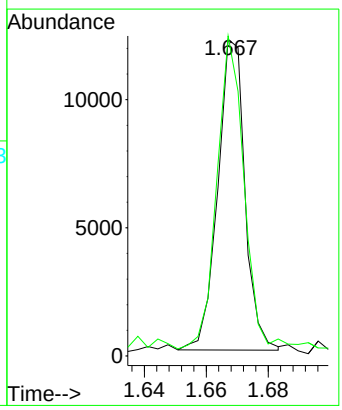
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

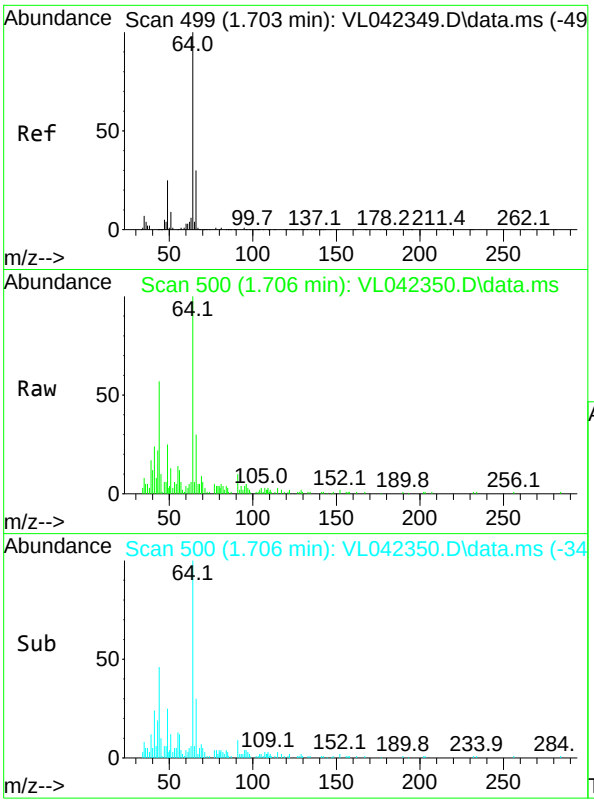


#6
Bromomethane
Concen: 1.821 ppbv
RT: 1.667 min Scan# 488
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 94 Resp: 7398

Ion	Ratio	Lower	Upper
94	100		
96	100.8	66.2	99.2#

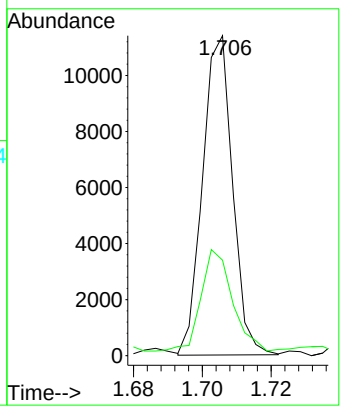




#7
Chloroethane
Concen: 2.031 ppbv
RT: 1.706 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 64 Resp: 688

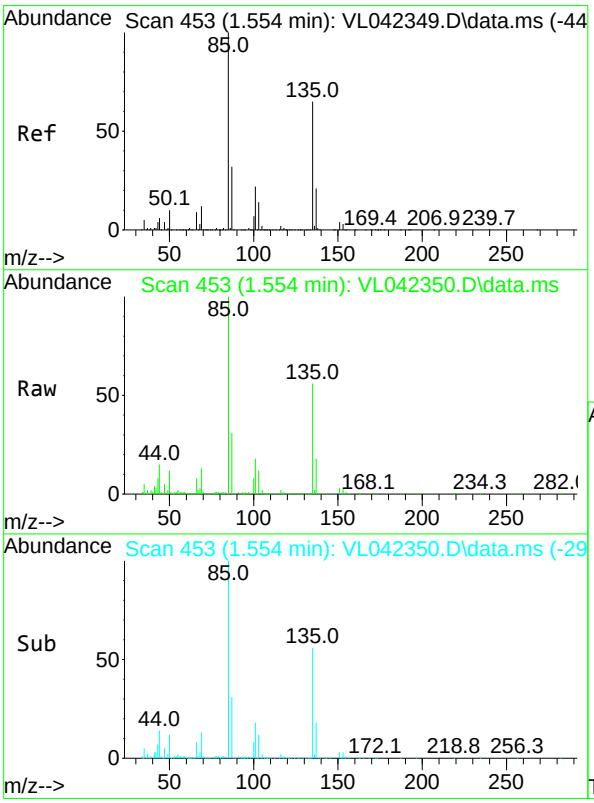
Ion	Ratio	Lower	Upper
64	100		
66	29.8	24.6	37.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

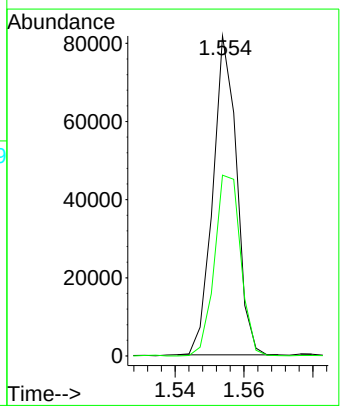
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

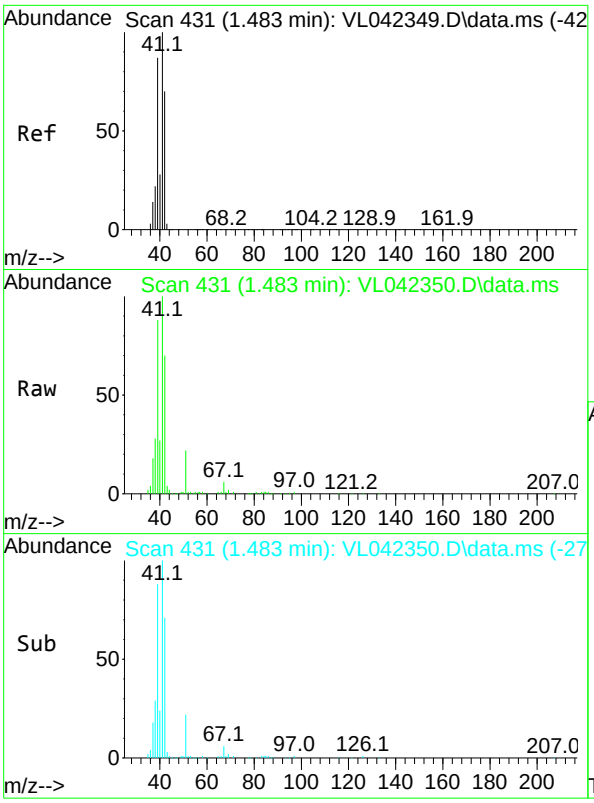


#8
Dichlorotetrafluoroethane
Concen: 2.084 ppbv
RT: 1.554 min Scan# 453
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

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

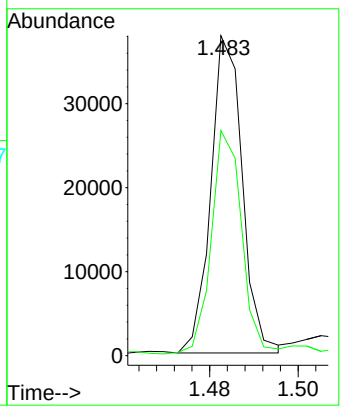
Tgt Ion: 41 Resp: 1867

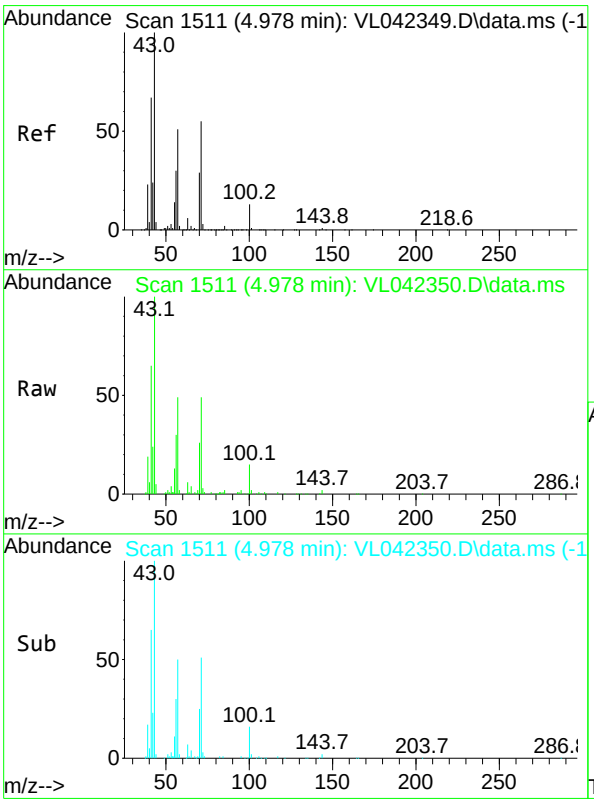
Ion	Ratio	Lower	Upper
41	100		
42	72.7	56.2	84.4

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

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

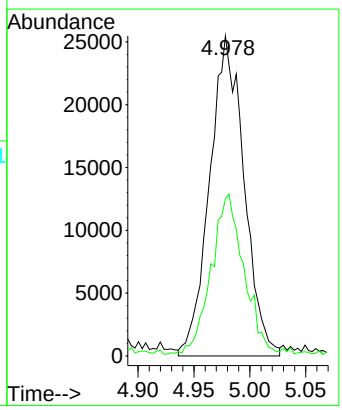


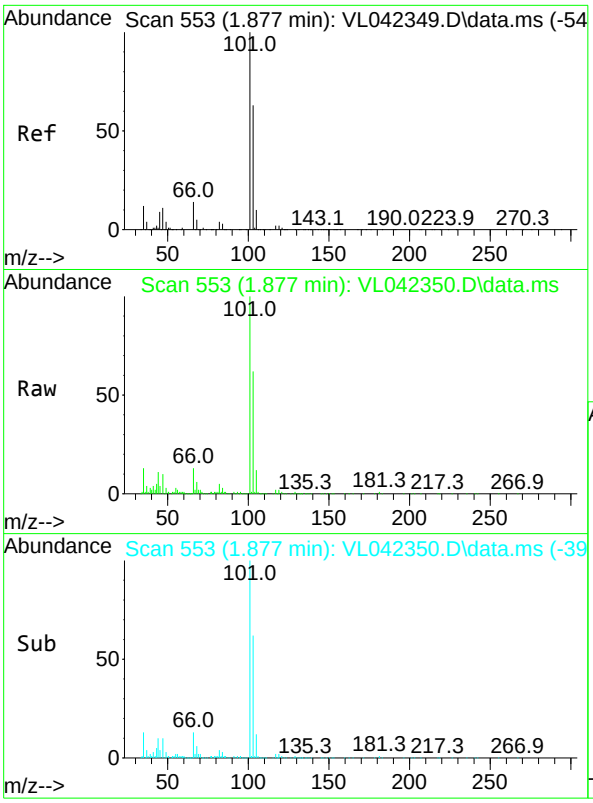


#10
Heptane
Concen: 2.143 ppbv m
RT: 4.978 min Scan# 1511
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 43 Resp: 54438

Ion	Ratio	Lower	Upper
43	100		
57	48.3	39.9	59.9

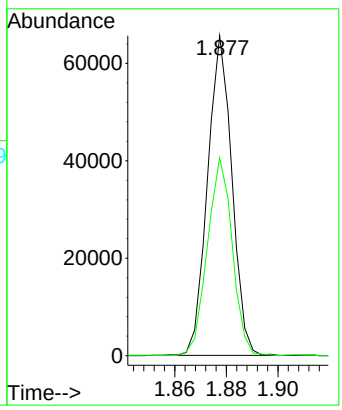




#11
Trichlorofluoromethane
Concen: 2.079 ppbv
RT: 1.877 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion:101 Resp: 4303

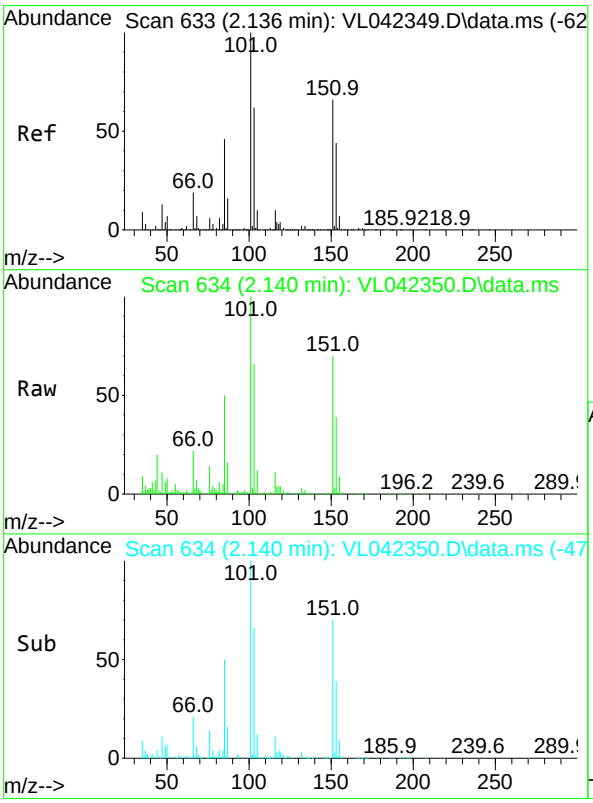
Ion	Ratio	Lower	Upper
101	100		
103	61.9	50.1	75.1



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

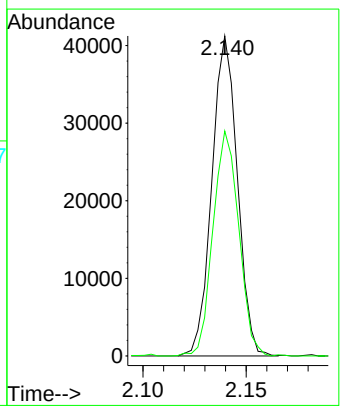
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

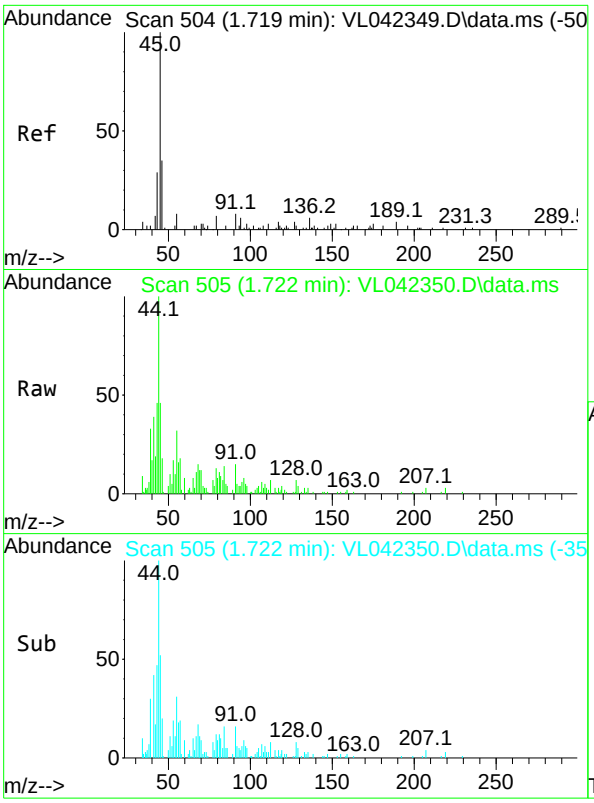


#12
1,1,2-Trichlorotrifluoroethane
Concen: 2.092 ppbv
RT: 2.140 min Scan# 634
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion:101 Resp: 35415

Ion	Ratio	Lower	Upper
101	100		
151	71.5	57.0	85.6

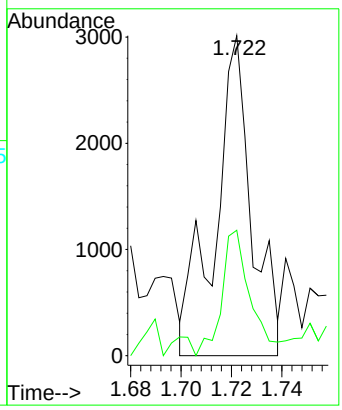




#13
Ethanol
Concen: 3.933 ppbv m
RT: 1.722 min Scan# 5(
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 45 Resp: 303

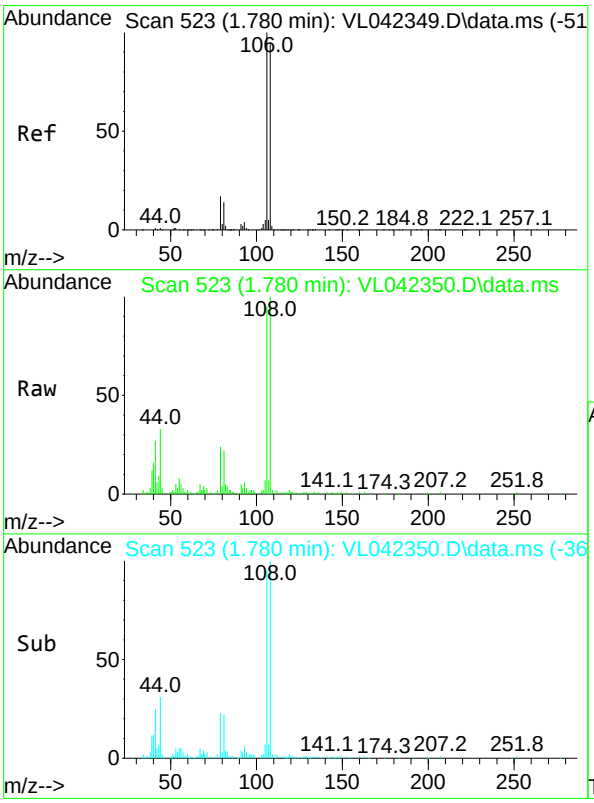
Ion	Ratio	Lower	Upper
45	100		
46	39.3	21.9	87.7



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

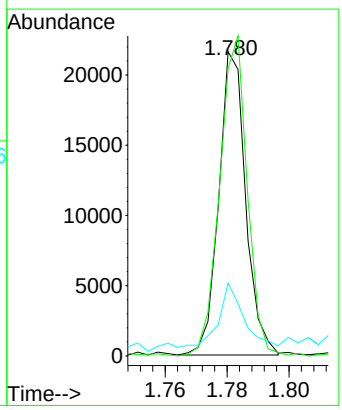
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

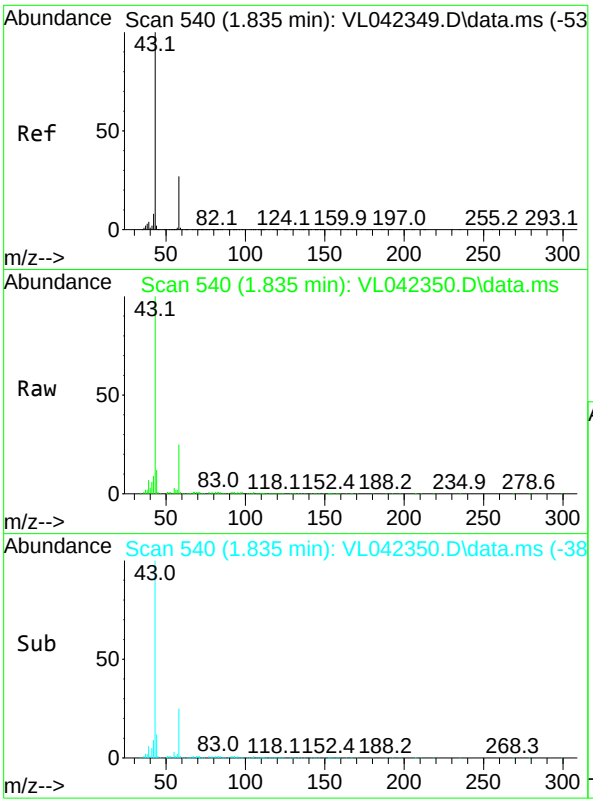


#14
Bromoethene
Concen: 2.045 ppbv
RT: 1.780 min Scan# 523
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

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#

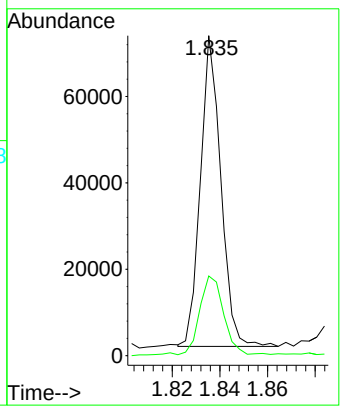




#15
Acetone
Concen: 2.129 ppbv
RT: 1.835 min Scan# 54
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 43 Resp: 4294

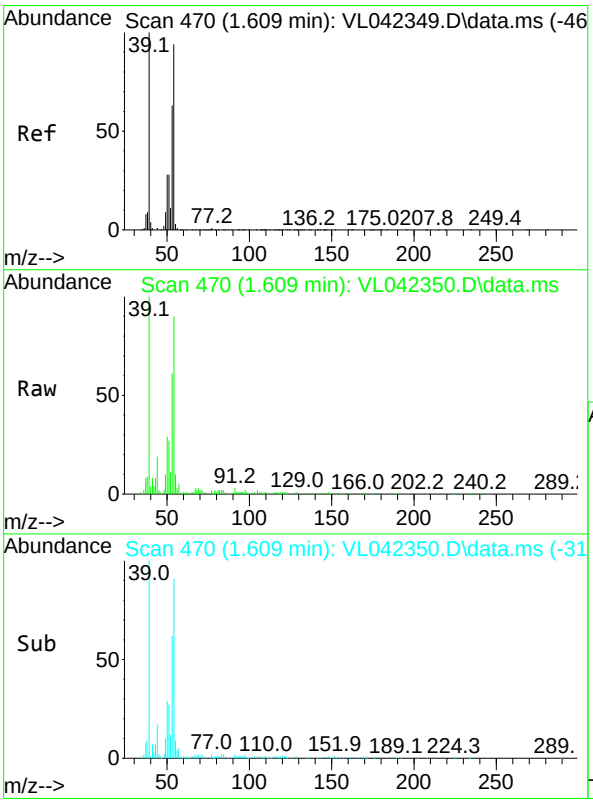
Ion	Ratio	Lower	Upper
43	100		
58	31.4	22.4	33.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

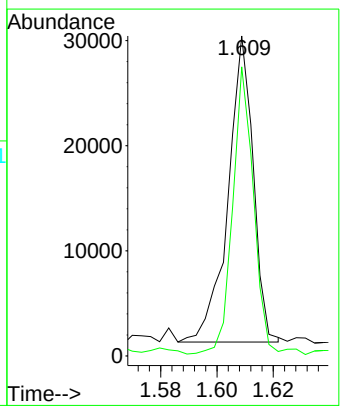
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

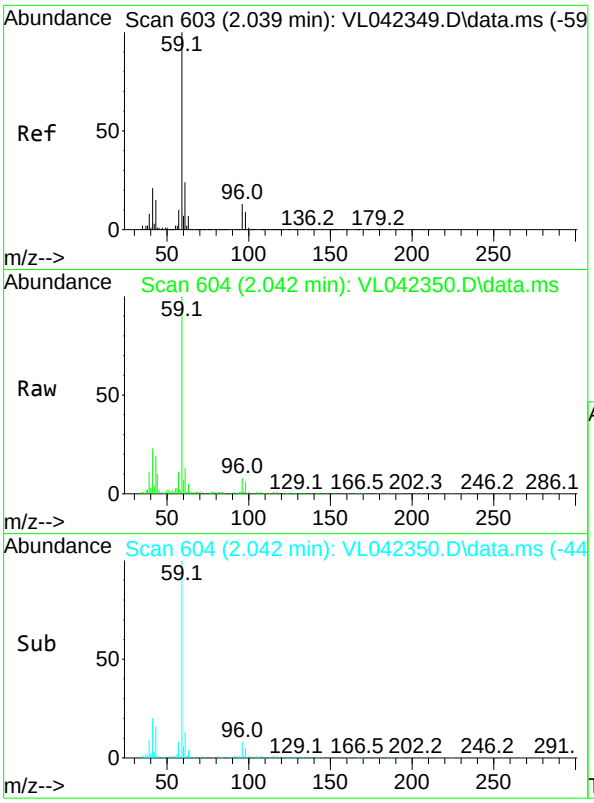


#16
1,3-Butadiene
Concen: 1.912 ppbv
RT: 1.609 min Scan# 470
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 39 Resp: 18110

Ion	Ratio	Lower	Upper
39	100		
54	77.2	64.9	97.3

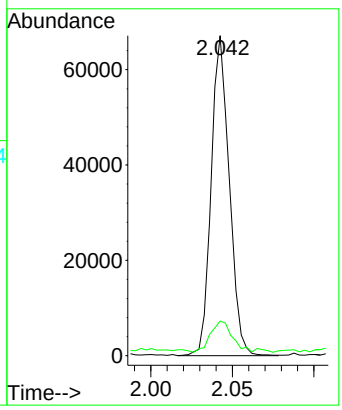




#17
tert-Butyl alcohol
Concen: 2.074 ppbv
RT: 2.042 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 59 Resp: 5182

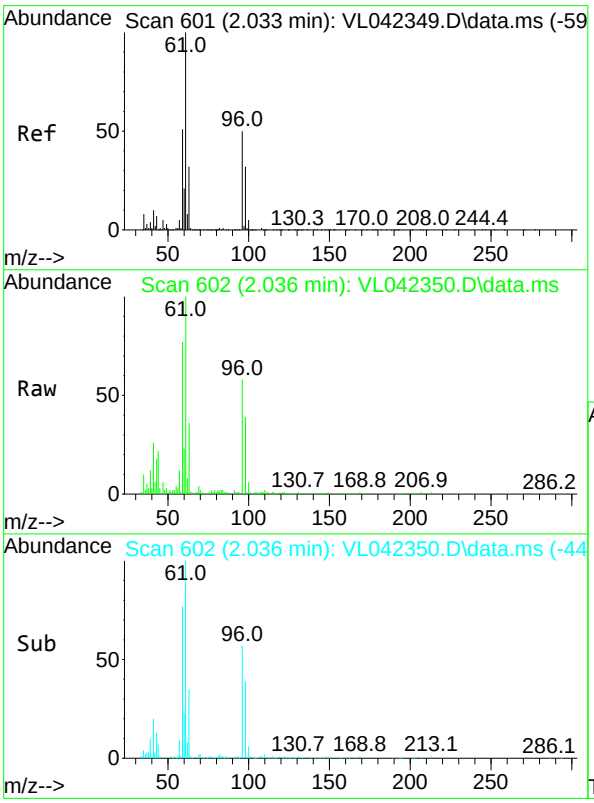
Ion	Ratio	Lower	Upper
59	100		
57	13.2	8.7	13.1



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

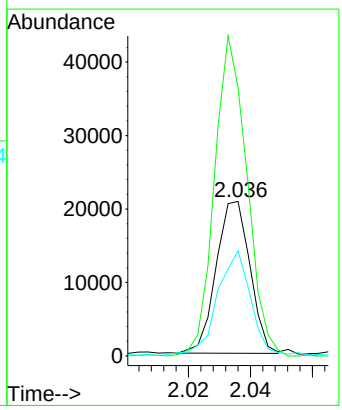
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

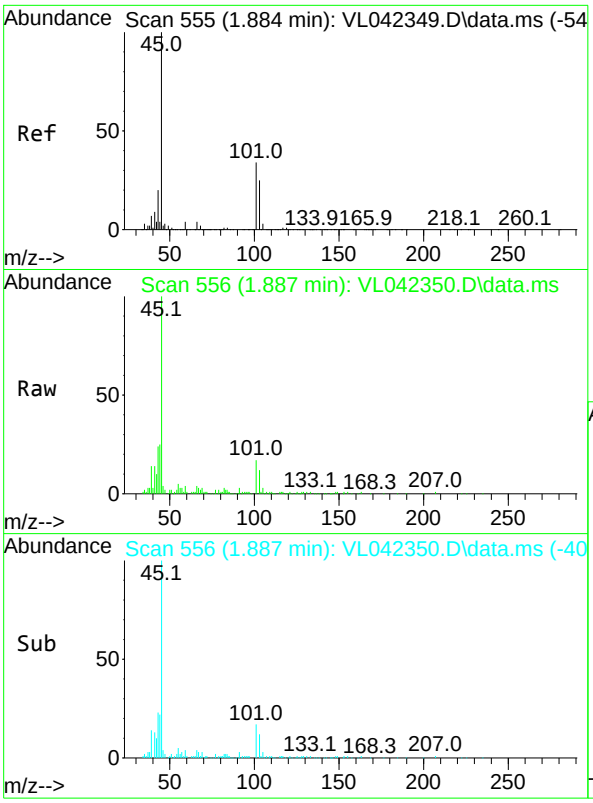


#18
1,1-Dichloroethene
Concen: 1.928 ppbv
RT: 2.036 min Scan# 602
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

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

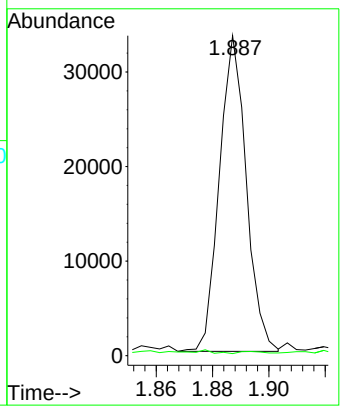
Tgt Ion: 45 Resp: 2210

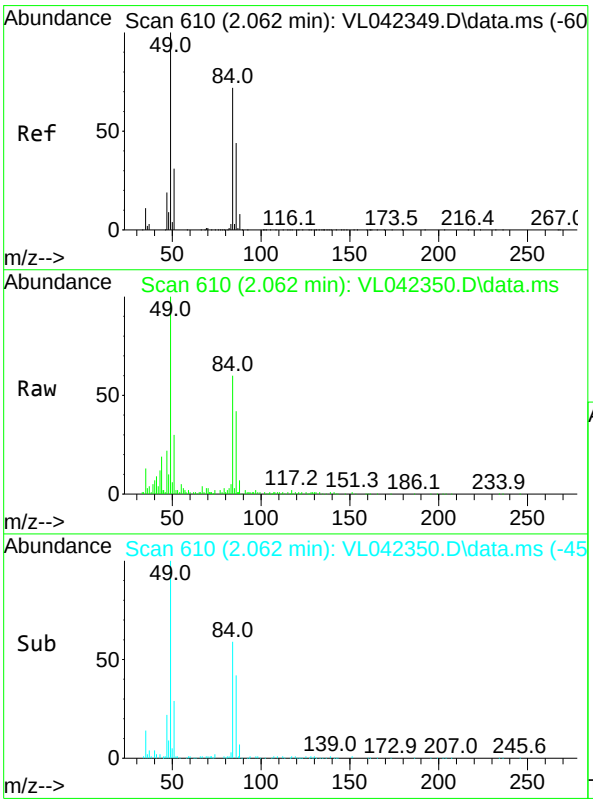
Ion	Ratio	Lower	Upper
45	100		
58	3.6	34.5	51.7#

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

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

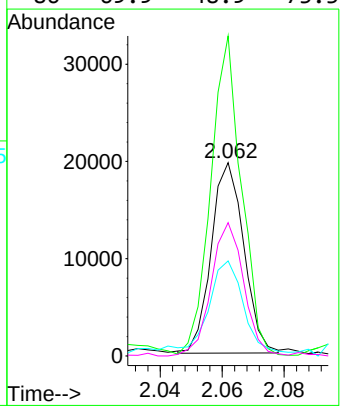


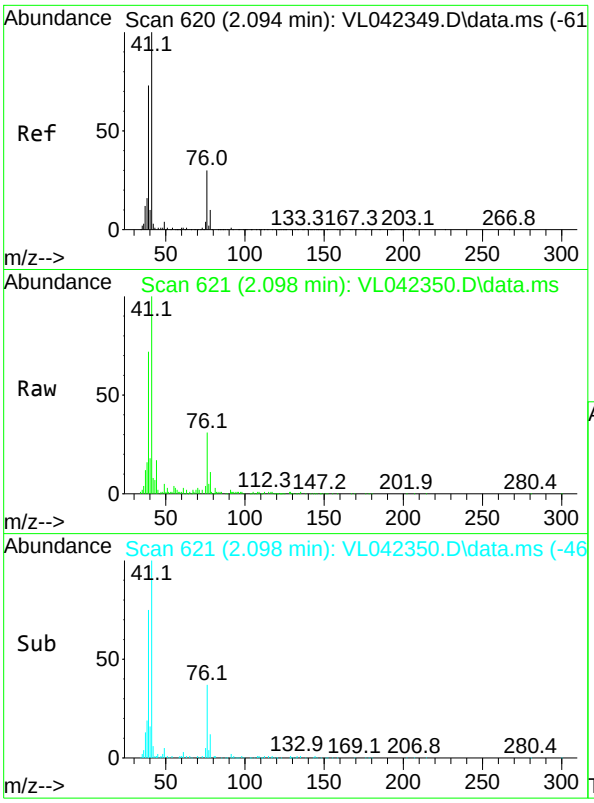


#20
Methylene Chloride
Concen: 1.814 ppbv
RT: 2.062 min Scan# 610
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

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

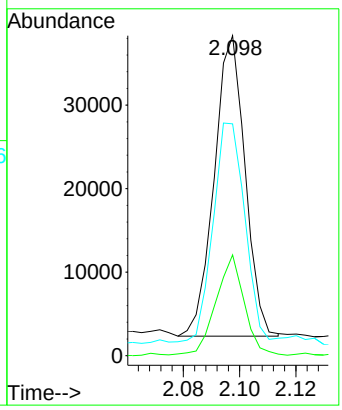




#21
Allyl Chloride
Concen: 1.963 ppbv
RT: 2.098 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 41 Resp: 2734

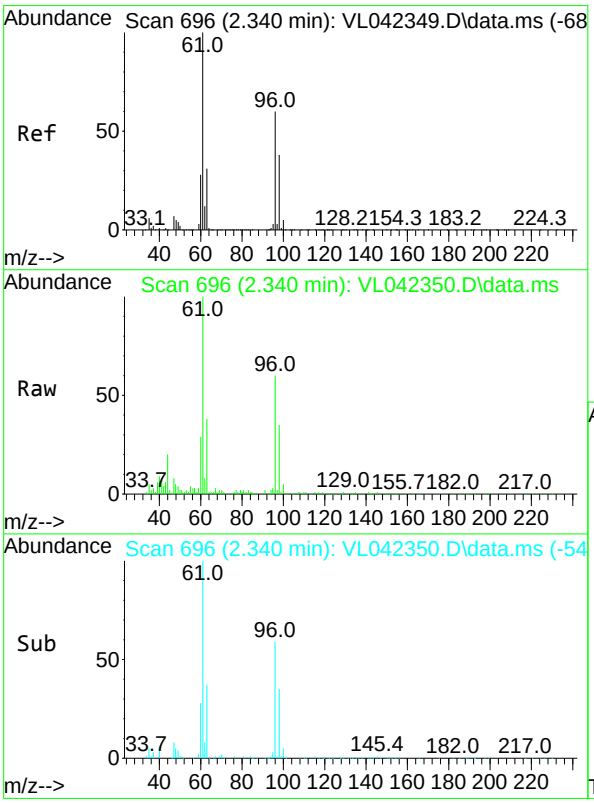
Ion	Ratio	Lower	Upper
41	100		
76	31.9	24.8	37.2
39	81.2	60.6	90.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

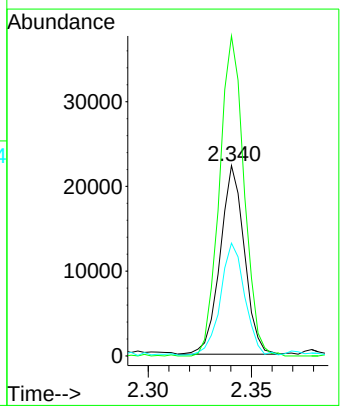
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

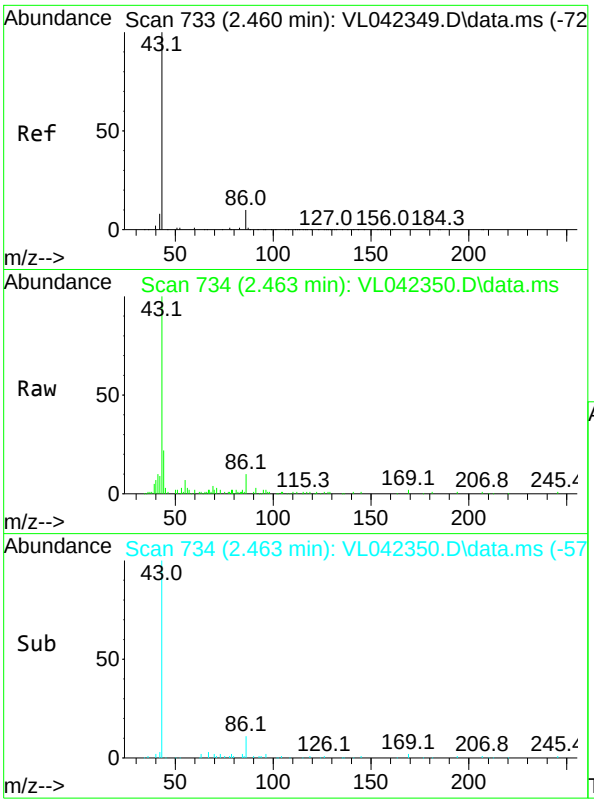


#22
trans-1,2-Dichloroethene
Concen: 2.015 ppbv
RT: 2.340 min Scan# 696
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

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

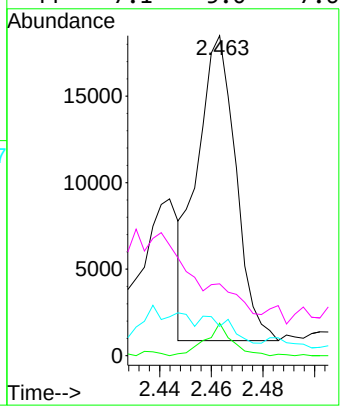




#23
Vinyl Acetate
Concen: 2.260 ppbv
RT: 2.463 min Scan# 7
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 43 Resp: 1845

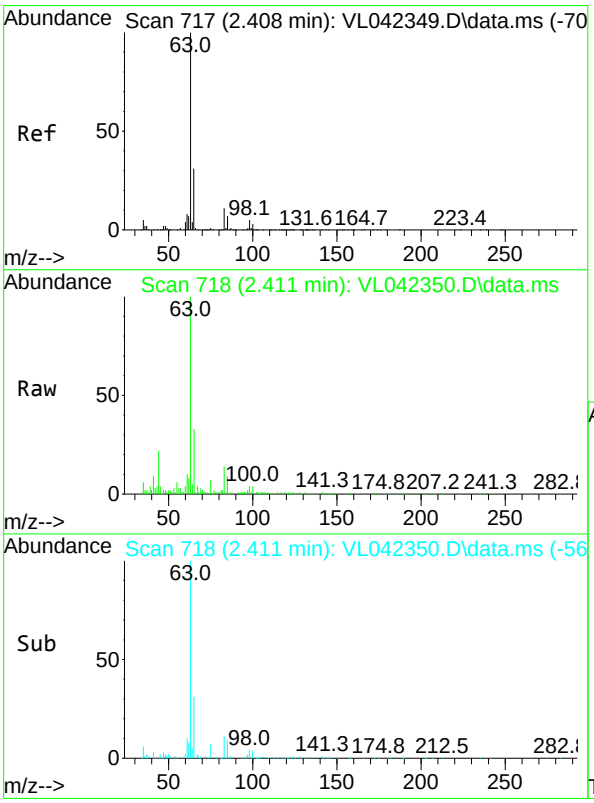
Ion	Ratio	Lower	Upper
43	100		
86	10.2	6.5	9.7#
42	3.7	7.8	11.8#
44	7.1	5.0	7.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

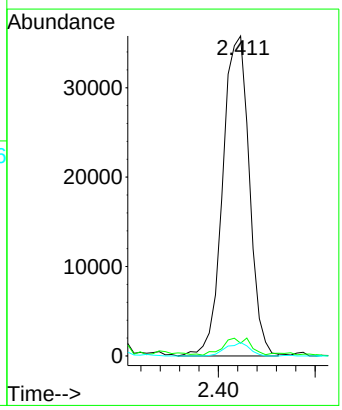
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

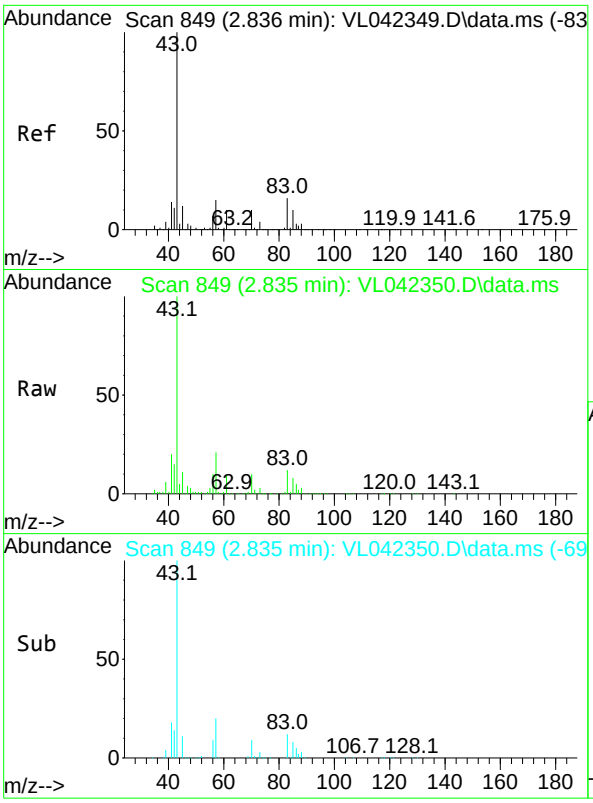


#24
1,1-Dichloroethane
Concen: 1.993 ppbv
RT: 2.411 min Scan# 718
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

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

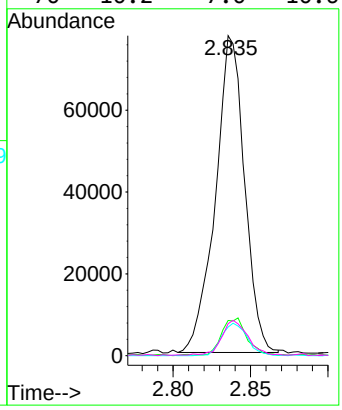




#25
Ethyl Acetate
Concen: 2.040 ppbv
RT: 2.835 min Scan# 84
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 43 Resp: 10146

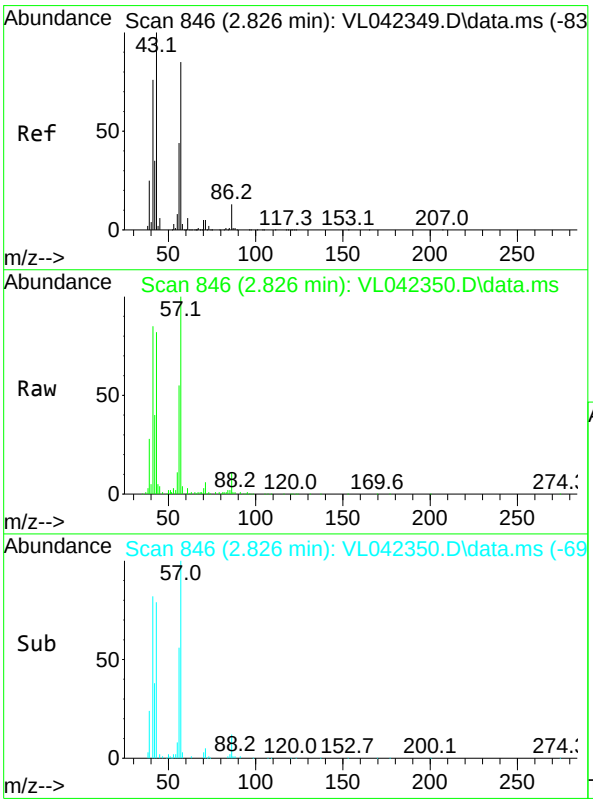
Ion	Ratio	Lower	Upper
43	100		
45	10.4	8.3	12.5
61	9.2	7.3	10.9
70	10.2	7.0	10.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

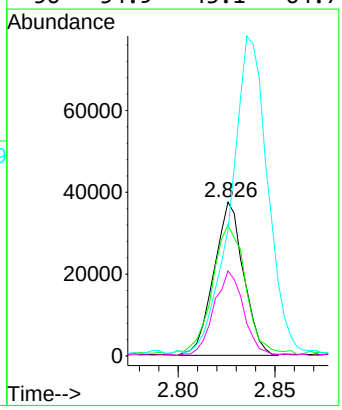
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

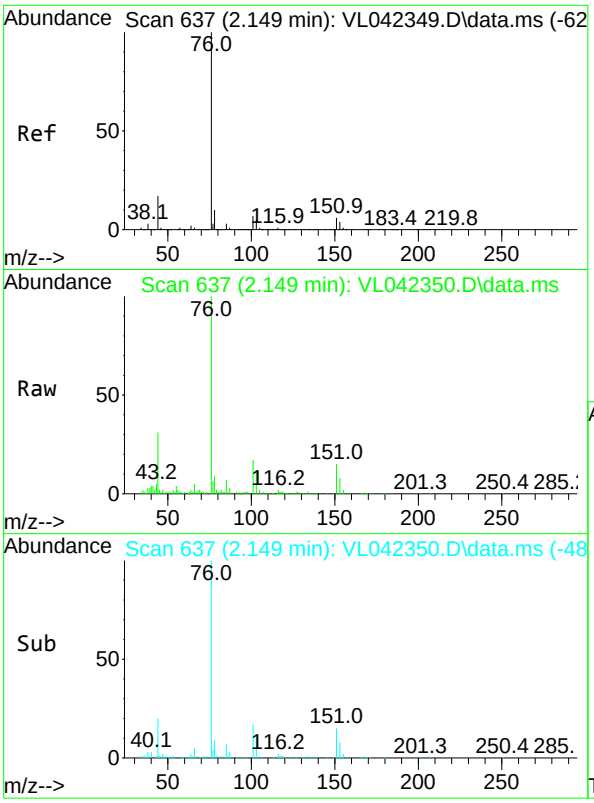


#26
Hexane
Concen: 1.990 ppbv
RT: 2.826 min Scan# 846
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

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

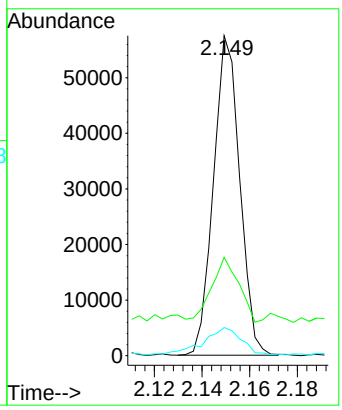




#27
Carbon Disulfide
Concen: 2.041 ppbv
RT: 2.149 min Scan# 6
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 76 Resp: 4397

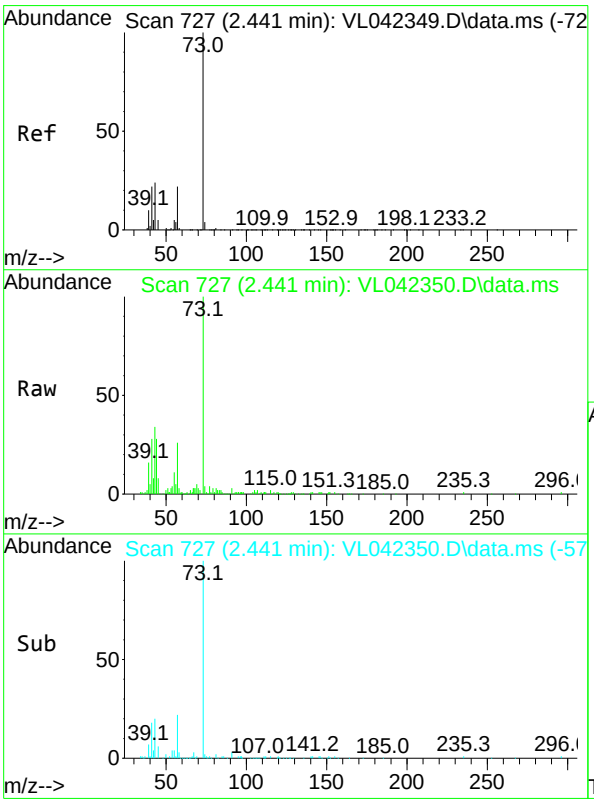
Ion	Ratio	Lower	Upper
76	100		
44	44.3	15.5	23.3#
78	13.6	9.3	13.9



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

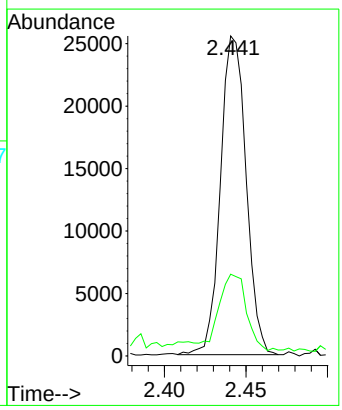
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

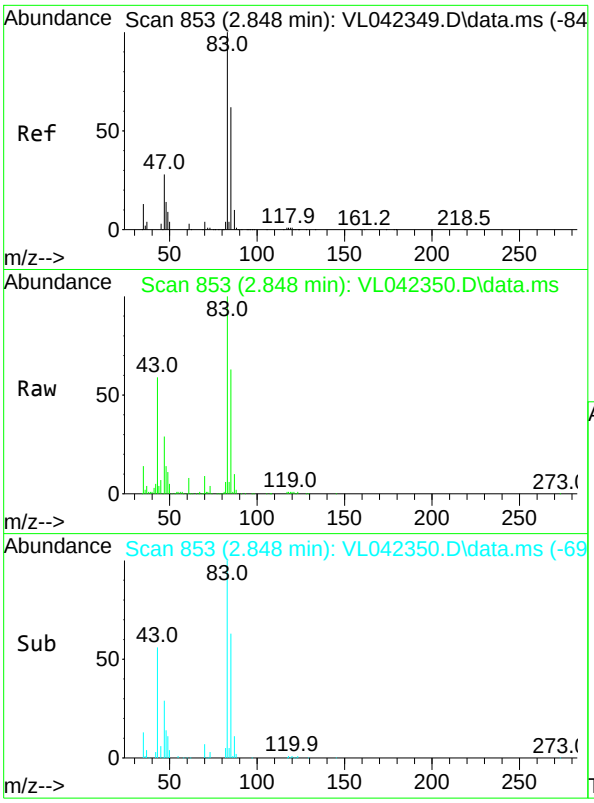


#28
Methyl tert-Butyl Ether
Concen: 2.116 ppbv
RT: 2.441 min Scan# 727
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 73 Resp: 27905

Ion	Ratio	Lower	Upper
73	100		
57	28.1	21.3	31.9

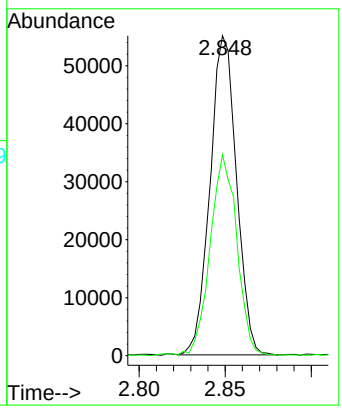




#29
Chloroform
Concen: 2.072 ppbv
RT: 2.848 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 83 Resp: 5894

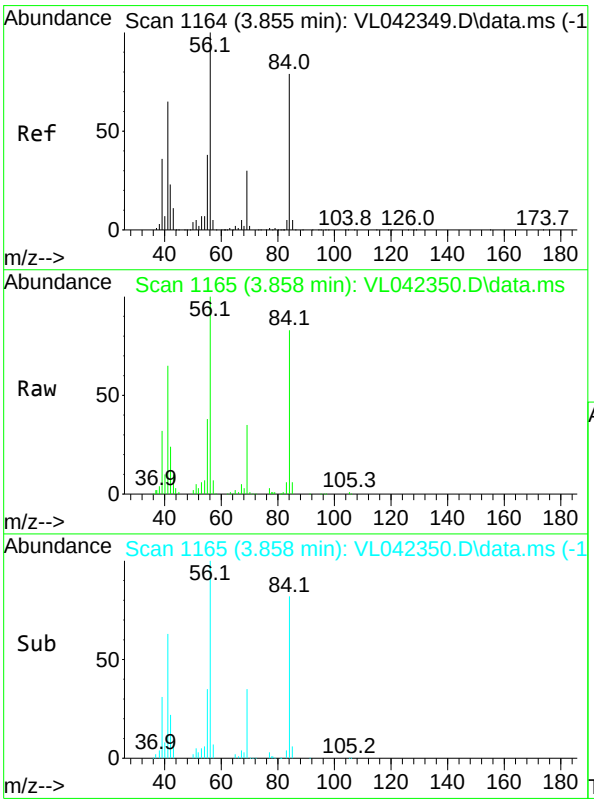
Ion	Ratio	Lower	Upper
83	100		
85	62.9	50.0	75.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

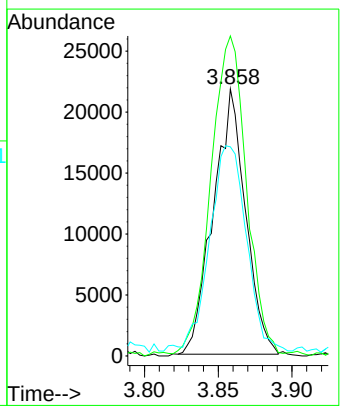
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

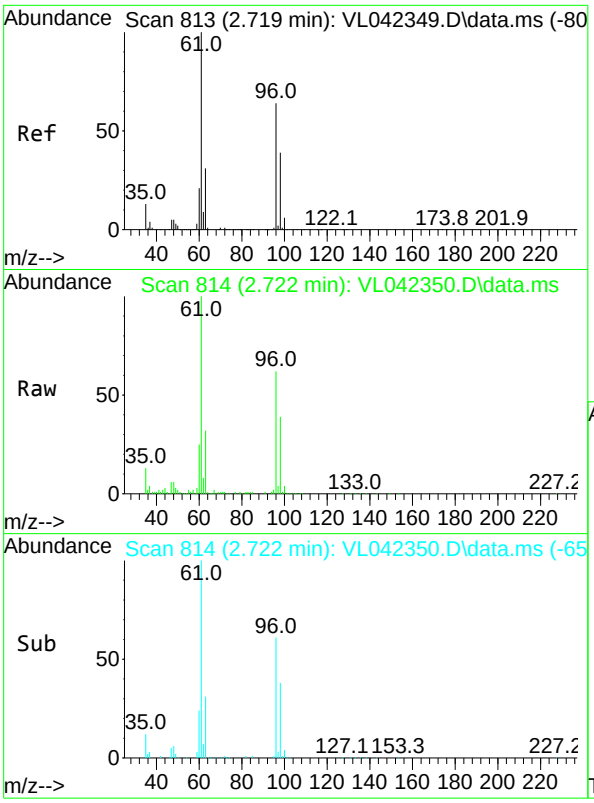


#30
Cyclohexane
Concen: 2.048 ppbv
RT: 3.858 min Scan# 1165
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

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

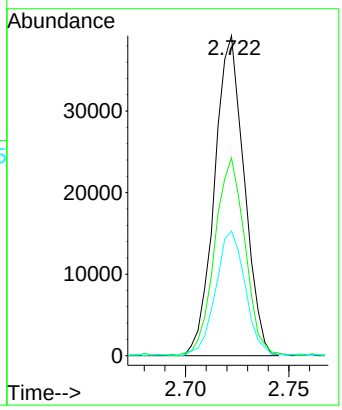




#31
cis-1,2-Dichloroethene
Concen: 2.051 ppbv
RT: 2.722 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 61 Resp: 3924

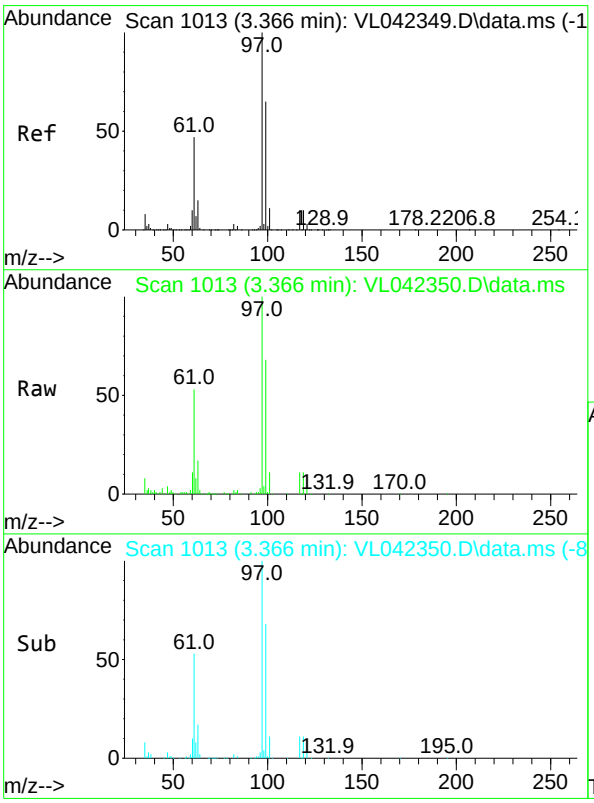
Ion	Ratio	Lower	Upper
61	100		
96	61.6	50.8	76.2
98	39.0	30.9	46.3



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

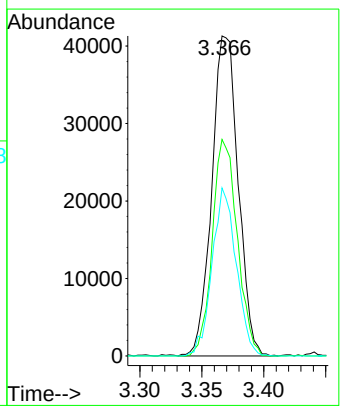
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

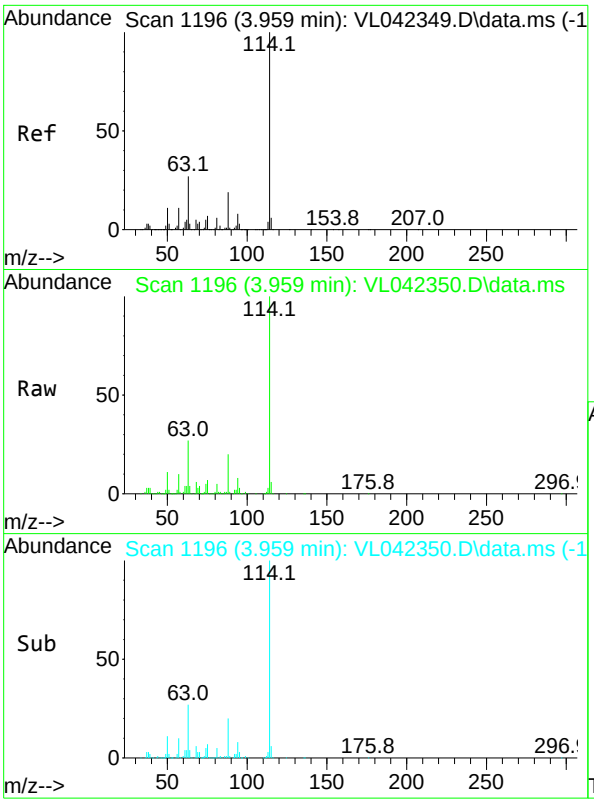


#32
1,1,1-Trichloroethane
Concen: 2.014 ppbv
RT: 3.366 min Scan# 1013
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

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

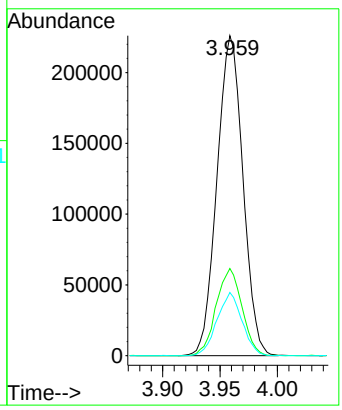




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.959 min Scan# 1
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion:114 Resp: 355918

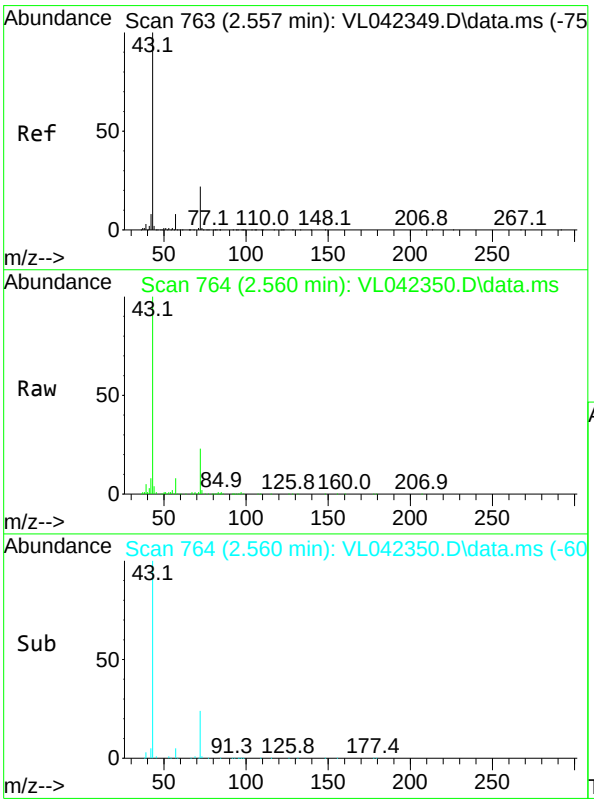
Ion	Ratio	Lower	Upper
114	100		
63	27.1	21.8	32.6
88	19.0	15.5	23.3



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

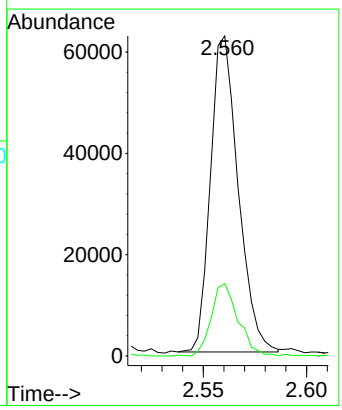
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

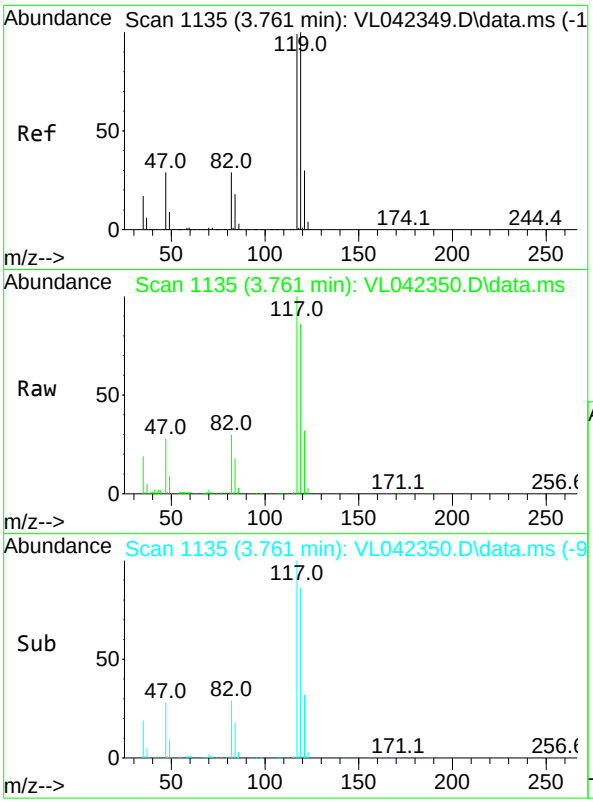


#34
2-Butanone
Concen: 2.069 ppbv
RT: 2.560 min Scan# 764
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 43 Resp: 58249

Ion	Ratio	Lower	Upper
43	100		
72	22.5	18.2	27.2

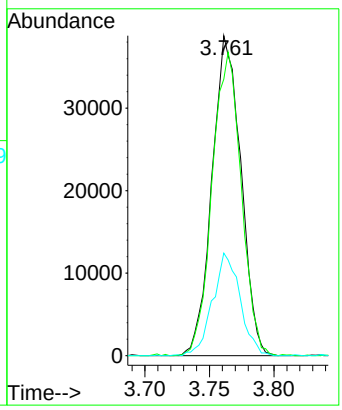




#35
Carbon Tetrachloride
Concen: 1.872 ppbv
RT: 3.761 min Scan# 1
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion:117 Resp: 6029

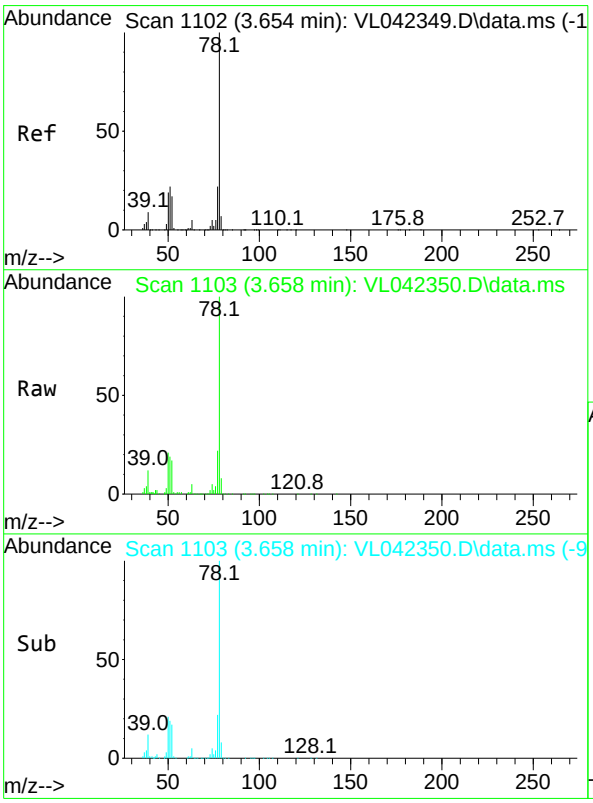
Ion	Ratio	Lower	Upper
117	100		
119	86.4	80.5	120.7
121	32.1	24.2	36.2



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

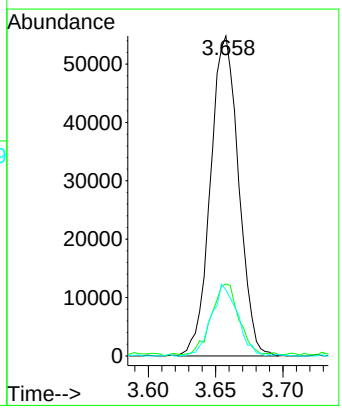
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

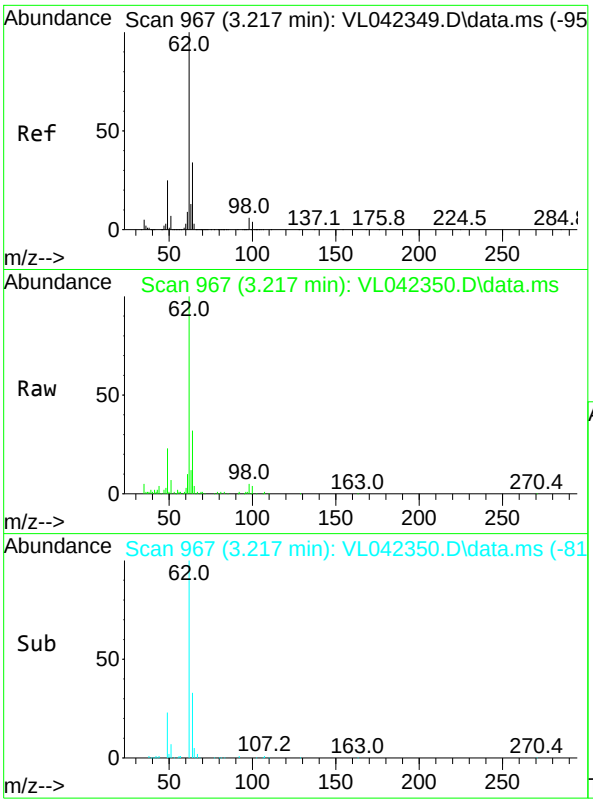


#36
Benzene
Concen: 2.079 ppbv
RT: 3.658 min Scan# 1103
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

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

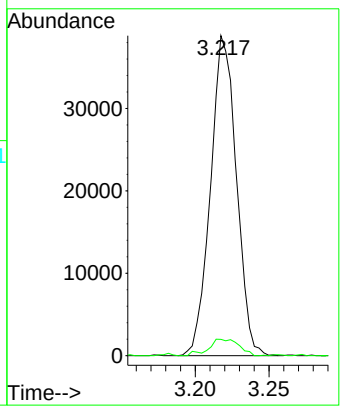




#37
1,2-Dichloroethane
Concen: 2.057 ppbv
RT: 3.217 min Scan# 9
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 62 Resp: 4739

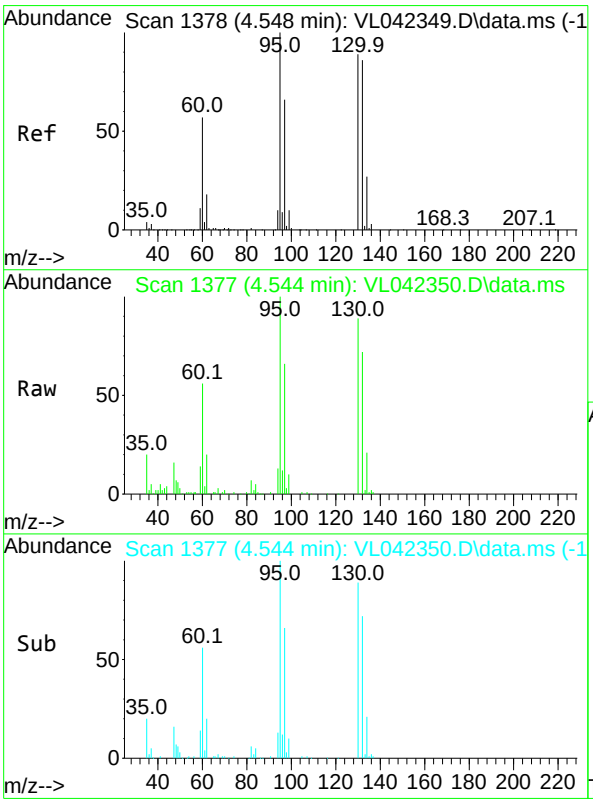
Ion	Ratio	Lower	Upper
62	100		
98	6.4	5.1	7.7



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

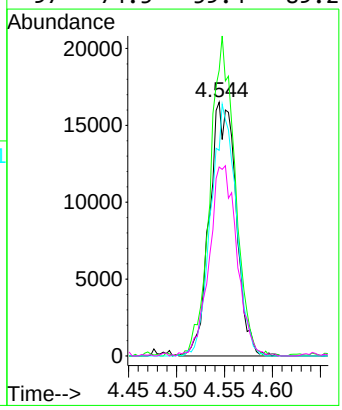
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

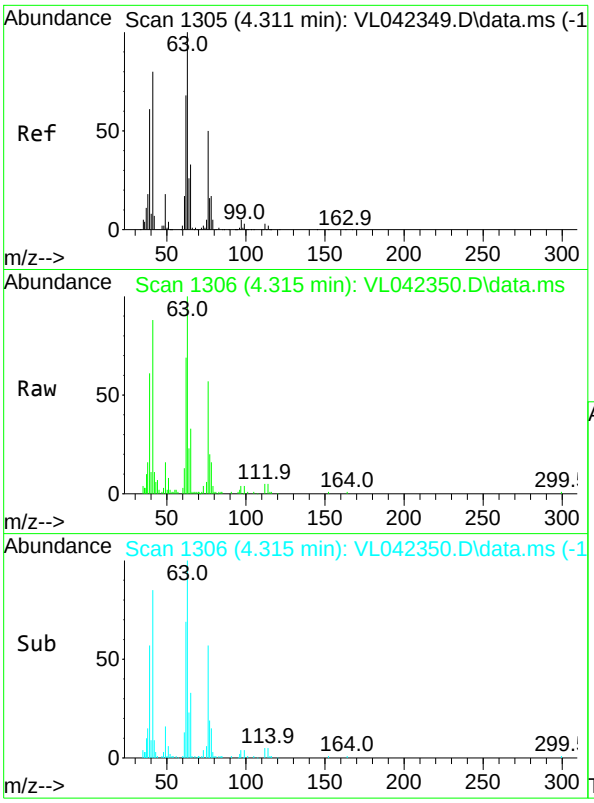


#38
Trichloroethene
Concen: 1.891 ppbv m
RT: 4.544 min Scan# 1377
Delta R.T. -0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

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

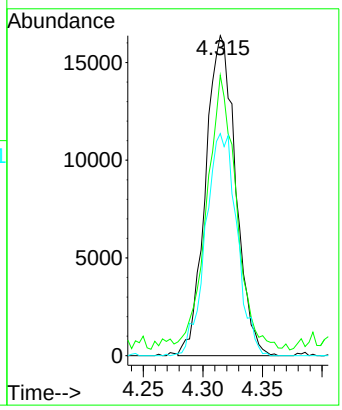




#39
1,2-Dichloropropane
Concen: 2.012 ppbv
RT: 4.315 min Scan# 1
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 63 Resp: 2880

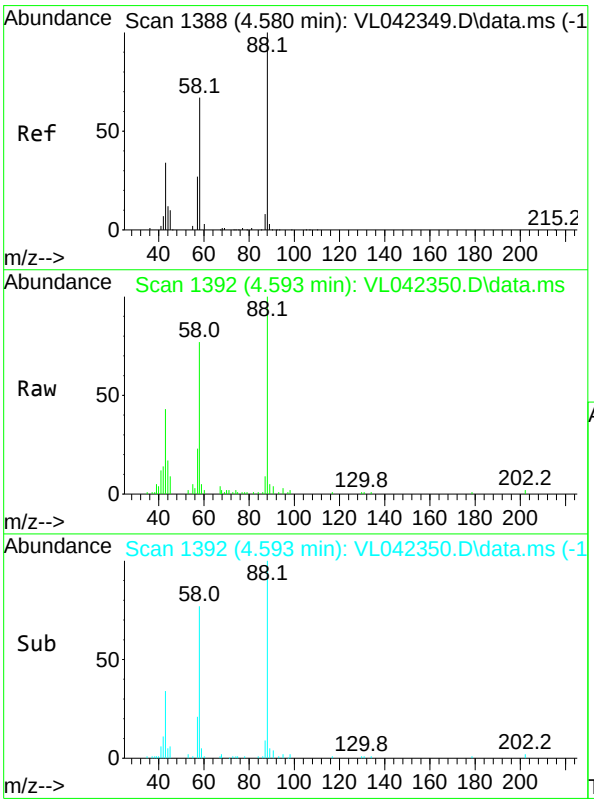
Ion	Ratio	Lower	Upper
63	100		
41	85.2	64.2	96.2
62	69.4	54.3	81.5



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

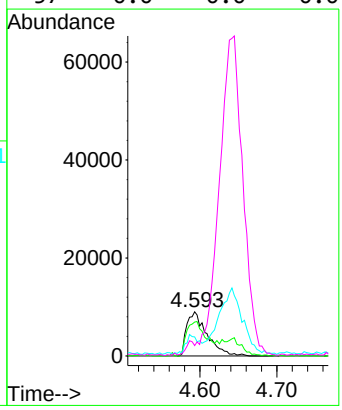
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

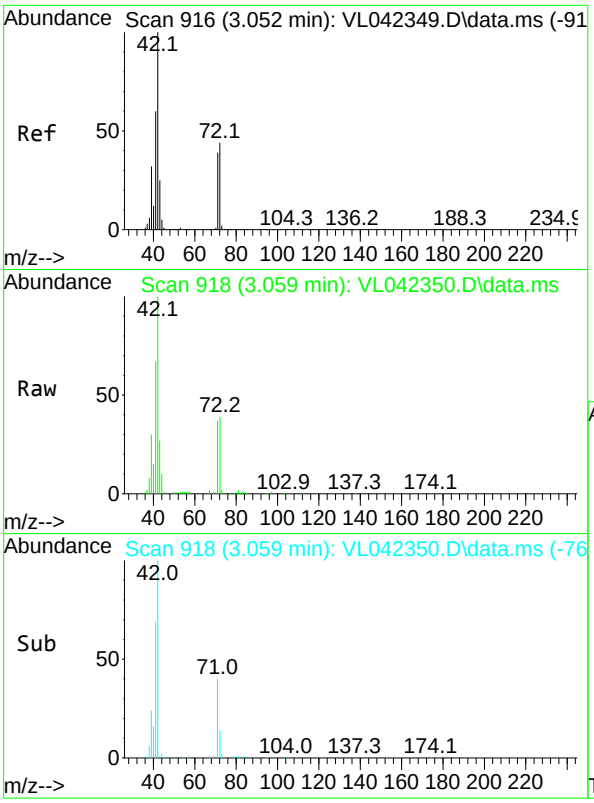


#40
1,4-Dioxane
Concen: 2.133 ppbv m
RT: 4.593 min Scan# 1392
Delta R.T. 0.013 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

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

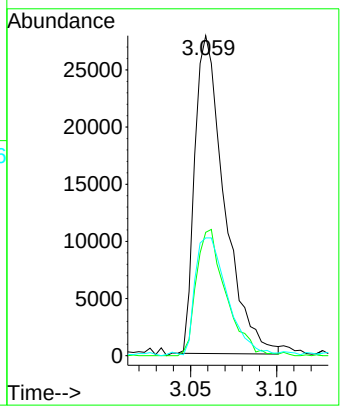




#41
Tetrahydrofuran
Concen: 2.047 ppbv
RT: 3.059 min Scan# 9
Delta R.T. 0.006 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 42 Resp: 3329

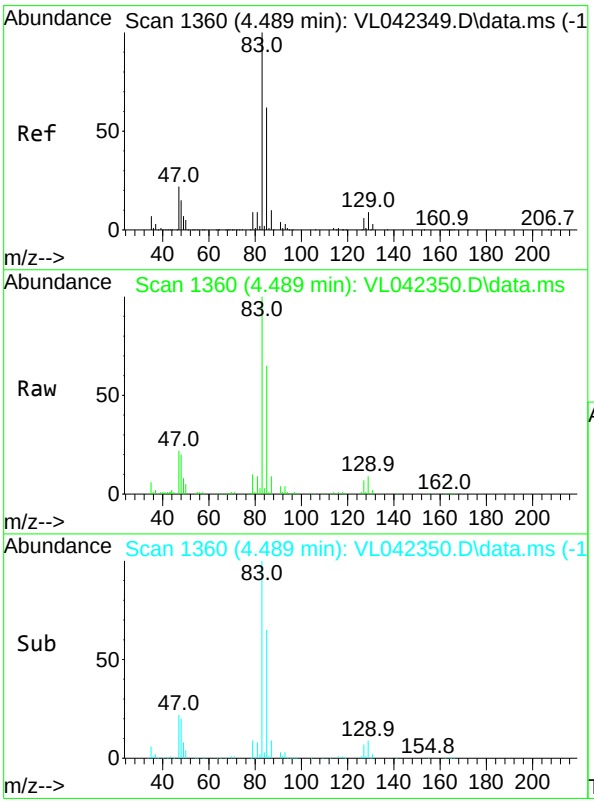
Ion	Ratio	Lower	Upper
42	100		
72	39.9	32.3	48.5
71	41.5	31.4	47.2



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations APPROVED

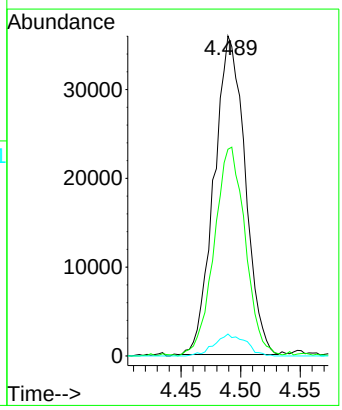
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

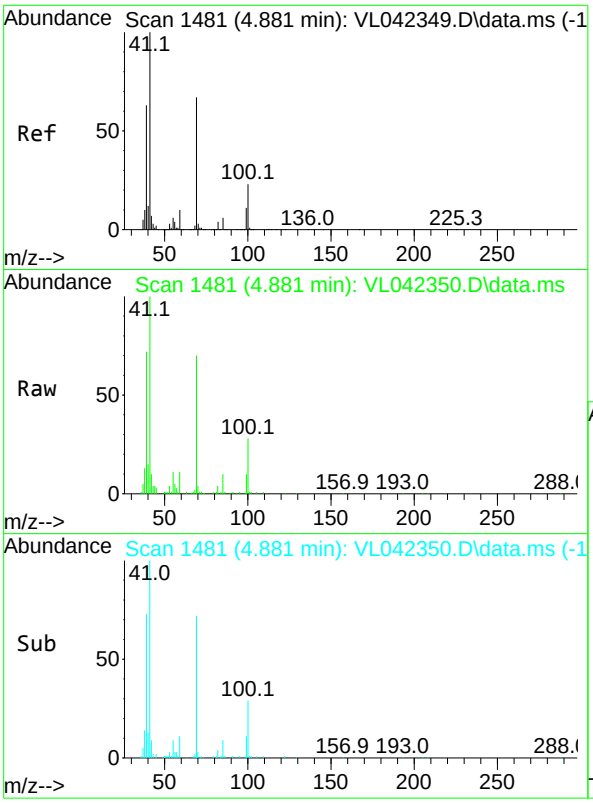


#42
Bromodichloromethane
Concen: 2.025 ppbv
RT: 4.489 min Scan# 1360
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

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

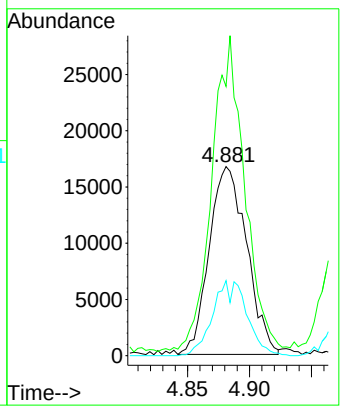




#43
Methyl Methacrylate
Concen: 2.046 ppbv
RT: 4.881 min Scan# 14
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 69 Resp: 3525

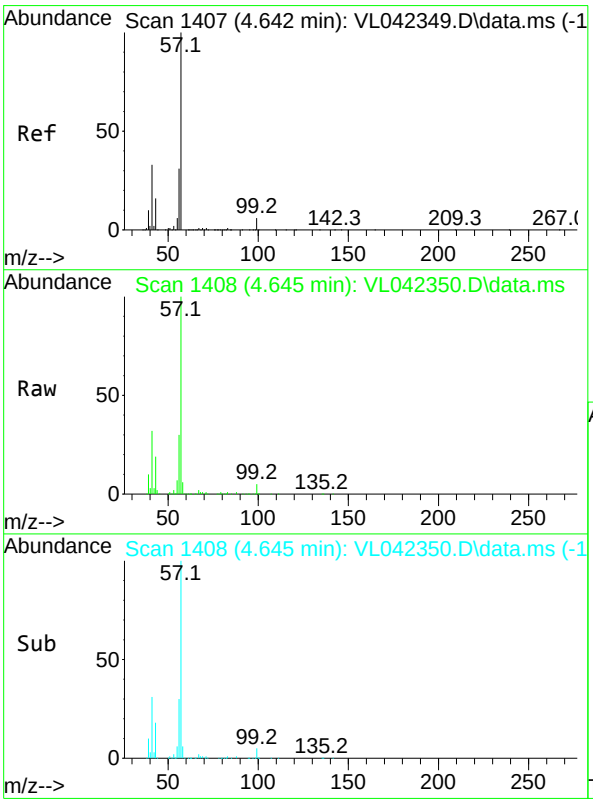
Ion	Ratio	Lower	Upper
69	100		
41	144.4	118.6	177.8
100	36.5	28.2	42.2



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

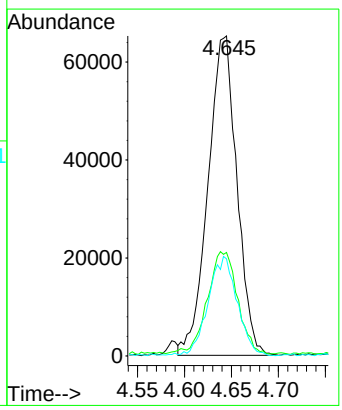
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

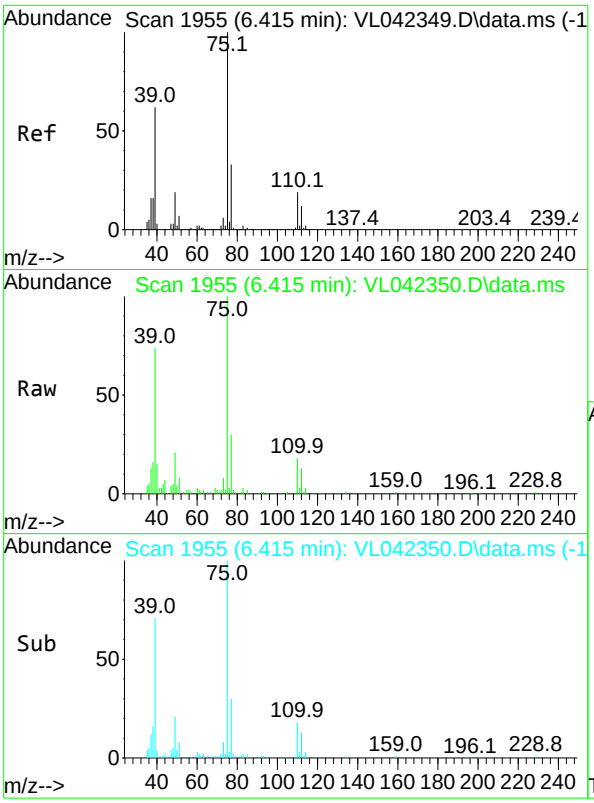


#44
2,2,4-Trimethylpentane
Concen: 2.103 ppbv
RT: 4.645 min Scan# 1408
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

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

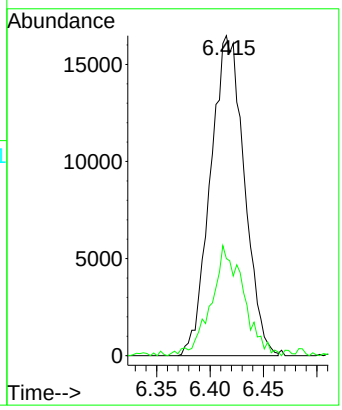




#45
t-1,3-Dichloropropene
Concen: 2.050 ppbv
RT: 6.415 min Scan# 1
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 75 Resp: 3626

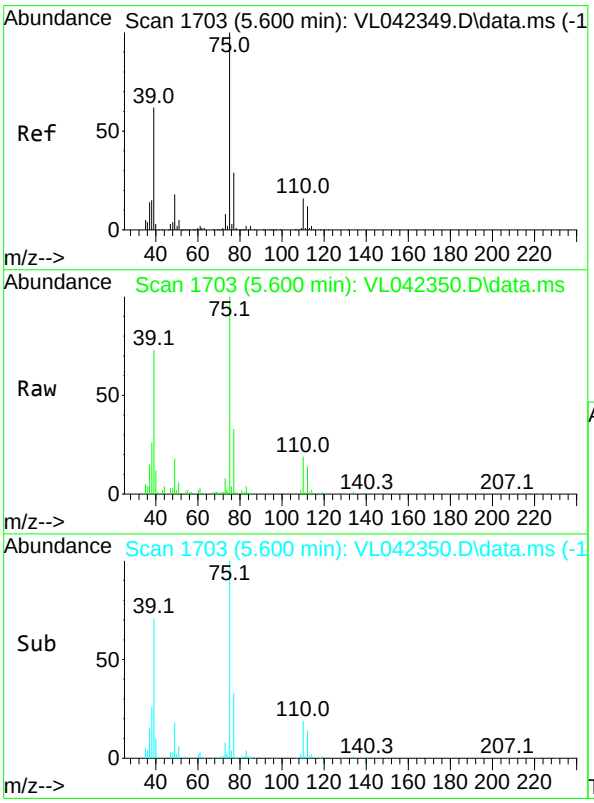
Ion	Ratio	Lower	Upper
75	100		
77	30.4	27.0	40.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

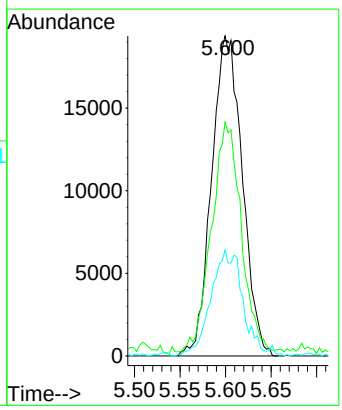
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

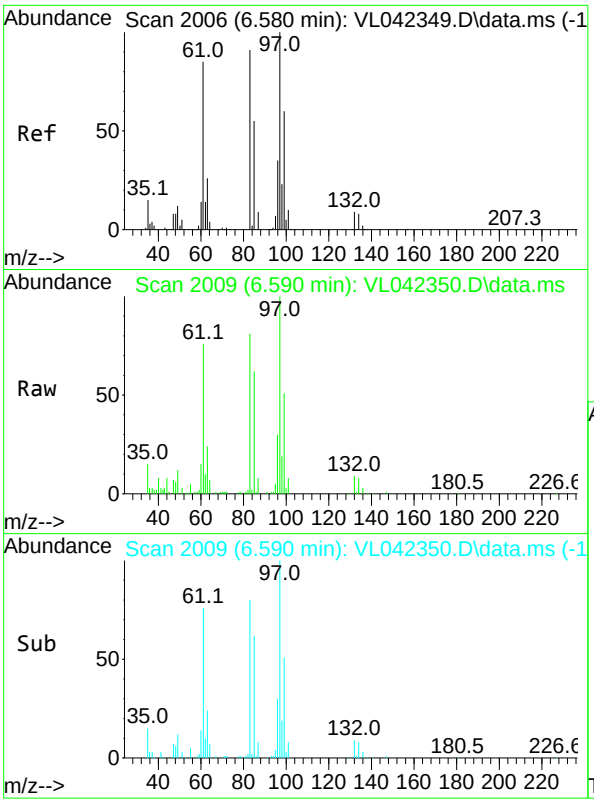


#46
cis-1,3-Dichloropropene
Concen: 2.096 ppbv m
RT: 5.600 min Scan# 1703
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

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

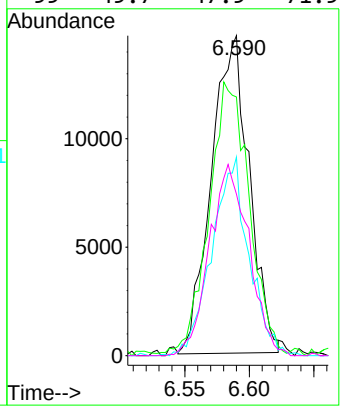




#47
1,1,2-Trichloroethane
Concen: 2.049 ppbv
RT: 6.590 min Scan# 2
Delta R.T. 0.010 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 97 Resp: 2987

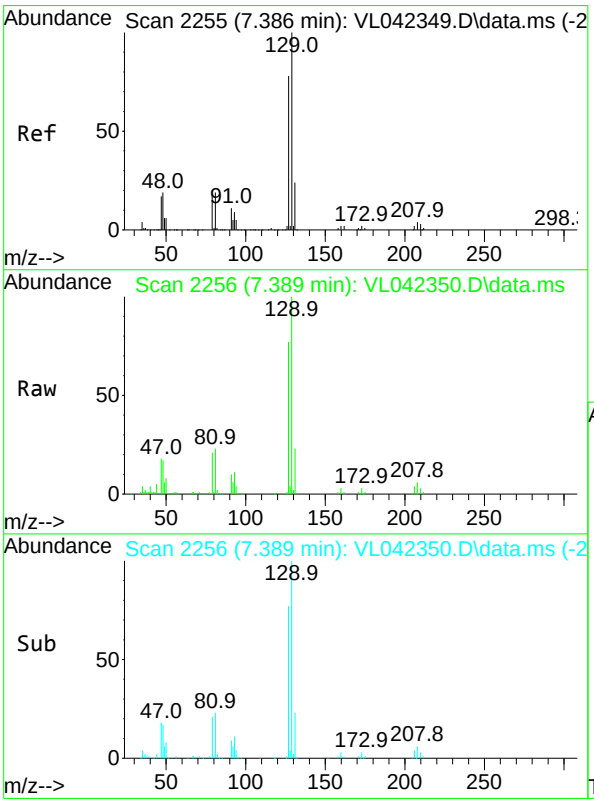
Ion	Ratio	Lower	Upper
97	100		
83	78.8	72.8	109.2
85	61.7	44.2	66.4
99	49.7	47.9	71.9



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

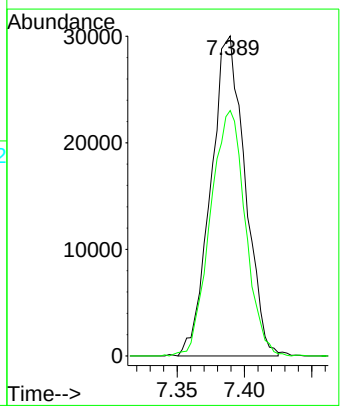
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

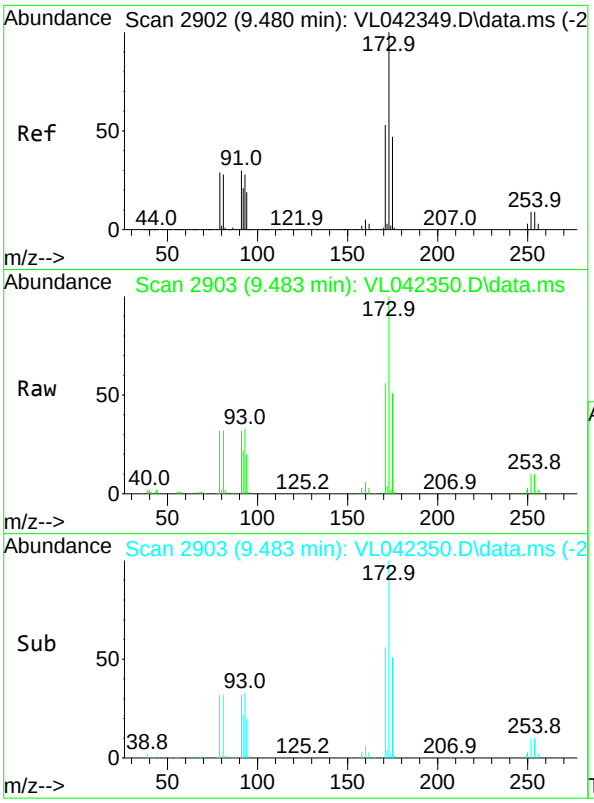


#48
Dibromochloromethane
Concen: 2.061 ppbv
RT: 7.389 min Scan# 2256
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion:129 Resp: 53069

Ion	Ratio	Lower	Upper
129	100		
127	78.4	39.1	117.3

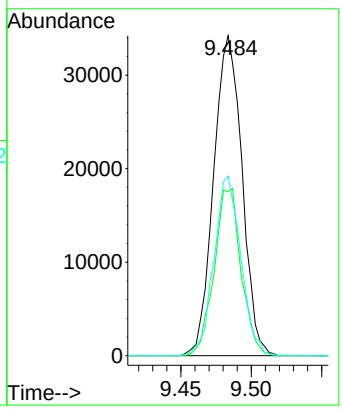




#49
Bromoform
Concen: 2.135 ppbv
RT: 9.483 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion:173 Resp: 4806

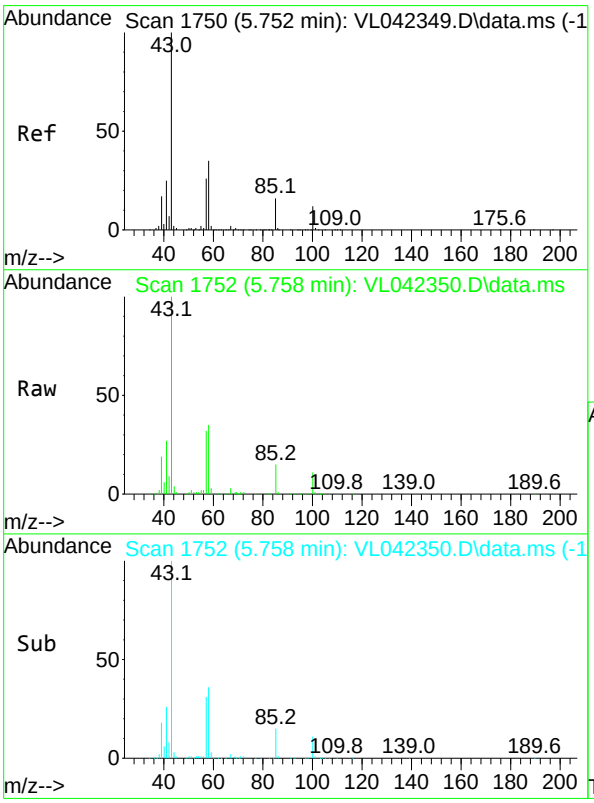
Ion	Ratio	Lower	Upper
173	100		
175	49.4	38.2	57.2
171	53.0	40.9	61.3



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

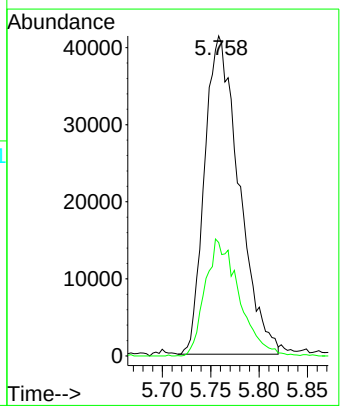
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

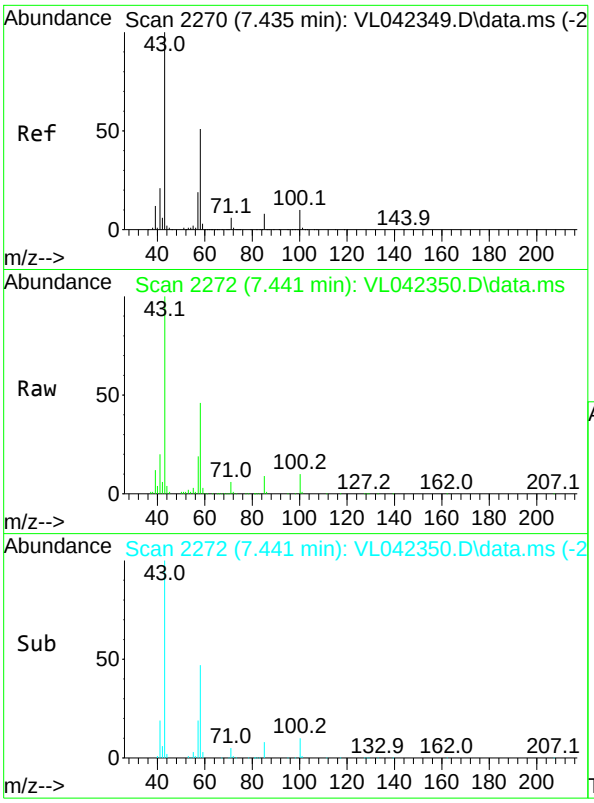


#50
4-Methyl-2-Pentanone
Concen: 2.180 ppbv
RT: 5.758 min Scan# 1752
Delta R.T. 0.006 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 43 Resp: 102182

Ion	Ratio	Lower	Upper
43	100		
58	36.3	28.6	43.0

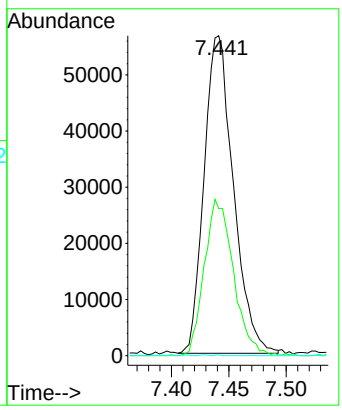




#51
2-Hexanone
Concen: 2.375 ppbv
RT: 7.441 min Scan# 2
Delta R.T. 0.006 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 43 Resp: 10044

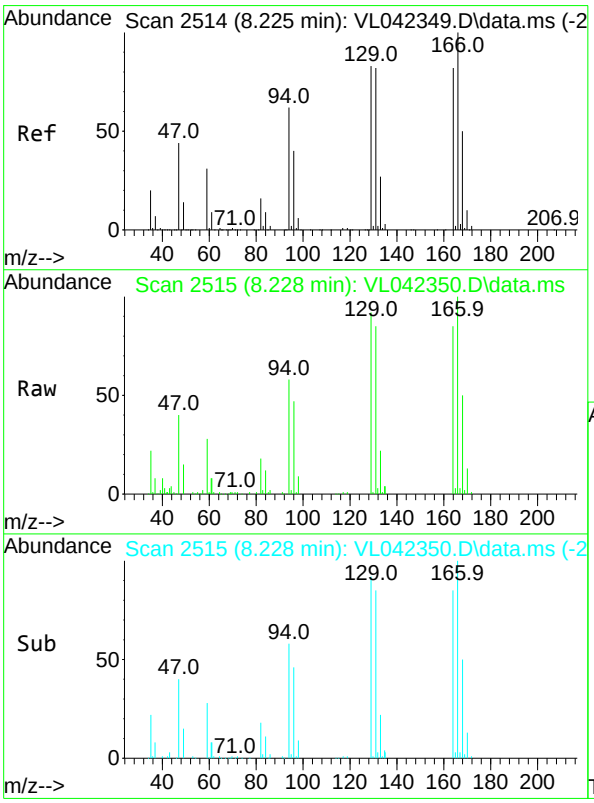
Ion	Ratio	Lower	Upper
43	100		
58	49.0	40.2	60.4
98	0.1	0.1	0.1



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

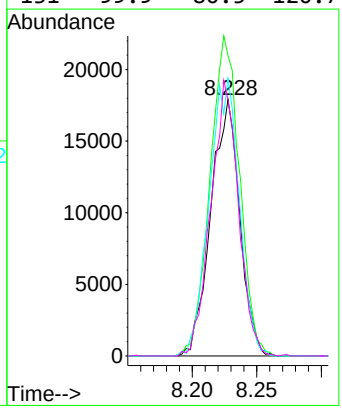
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

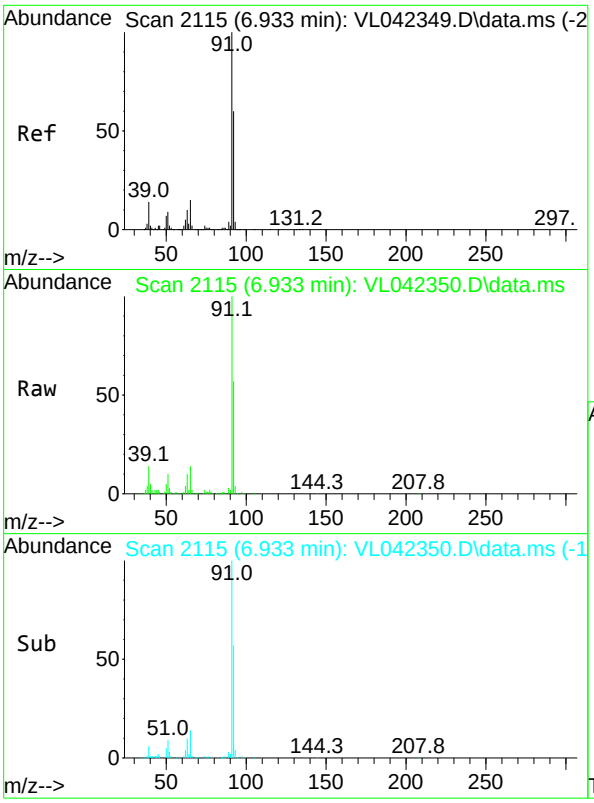


#52
Tetrachloroethene
Concen: 1.877 ppbv
RT: 8.228 min Scan# 2515
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

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

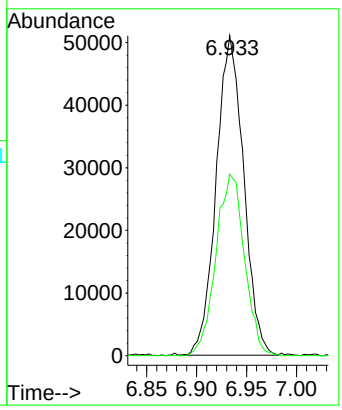




#53
Toluene
Concen: 2.116 ppbv
RT: 6.933 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 91 Resp: 9749

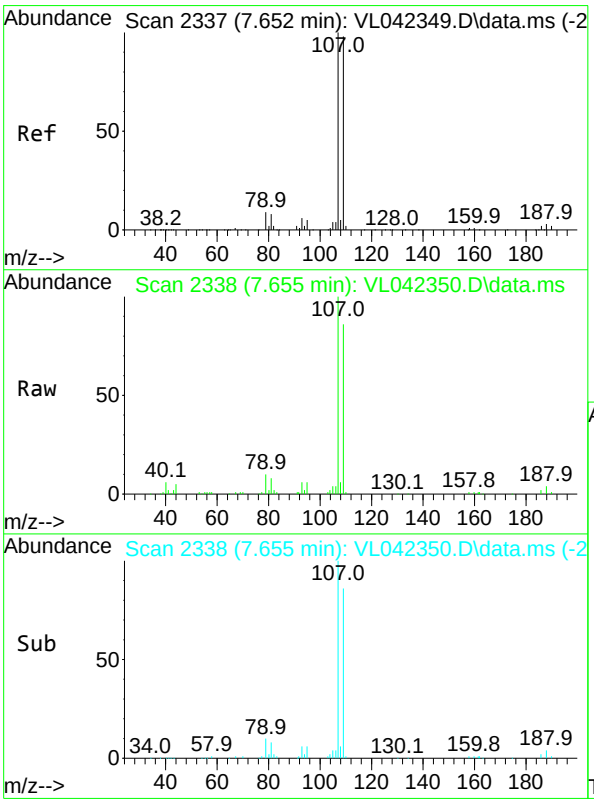
Ion	Ratio	Lower	Upper
91	100		
92	59.1	48.2	72.4



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

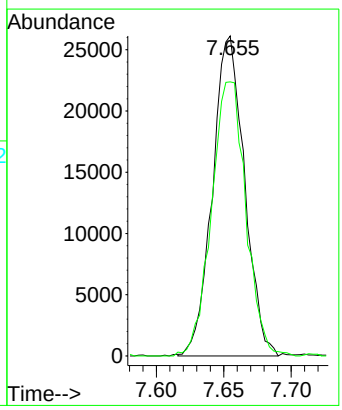
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

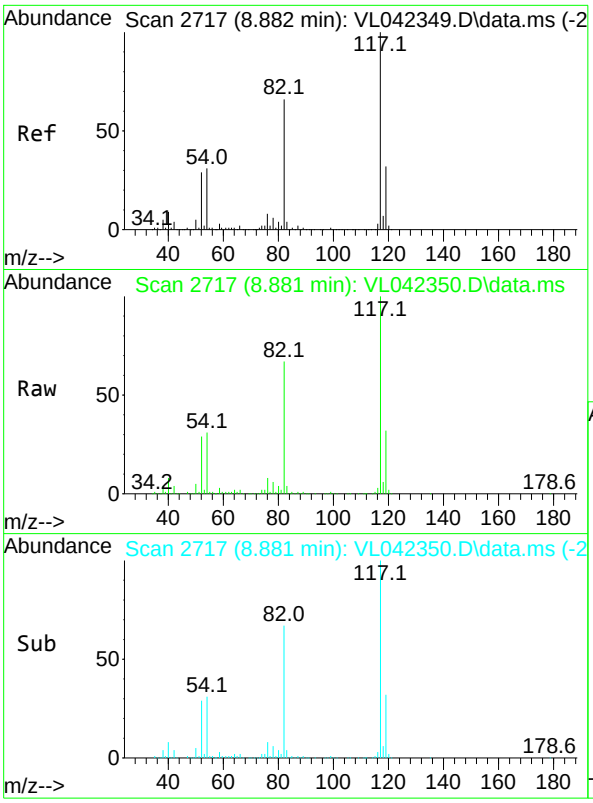


#54
1,2-Dibromoethane
Concen: 2.076 ppbv
RT: 7.655 min Scan# 2338
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion:107 Resp: 43153

Ion	Ratio	Lower	Upper
107	100		
109	84.5	78.2	117.4

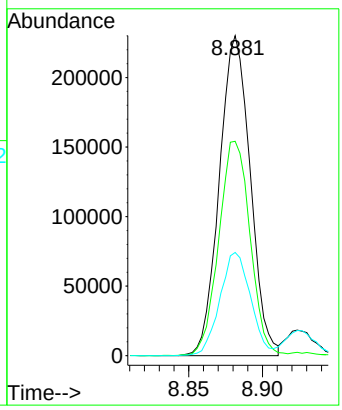




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.881 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion:117 Resp: 33560

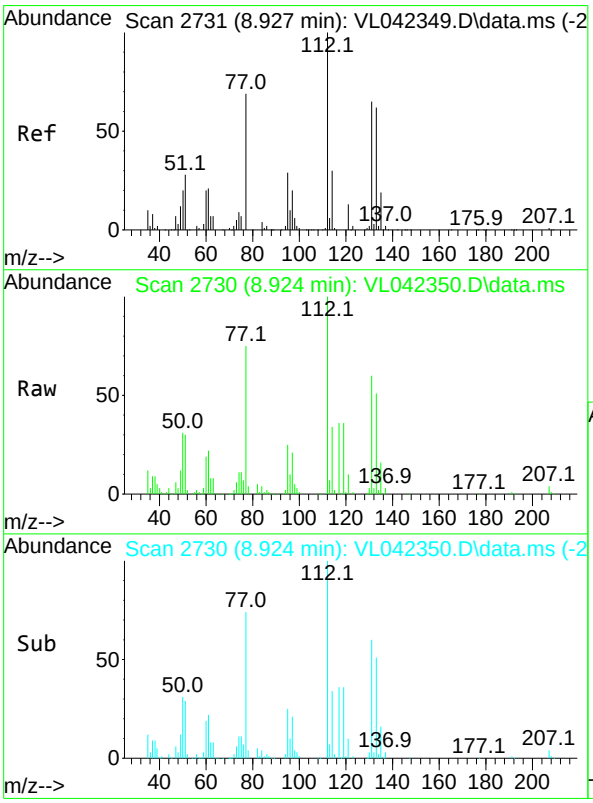
Ion	Ratio	Lower	Upper
117	100		
82	68.8	57.8	86.6
119	32.2	25.2	37.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

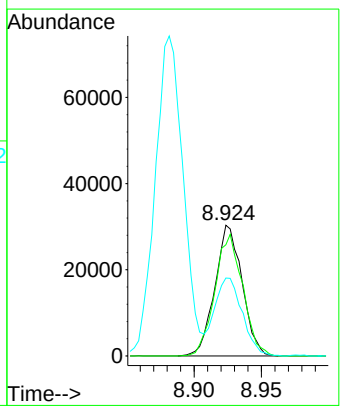
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

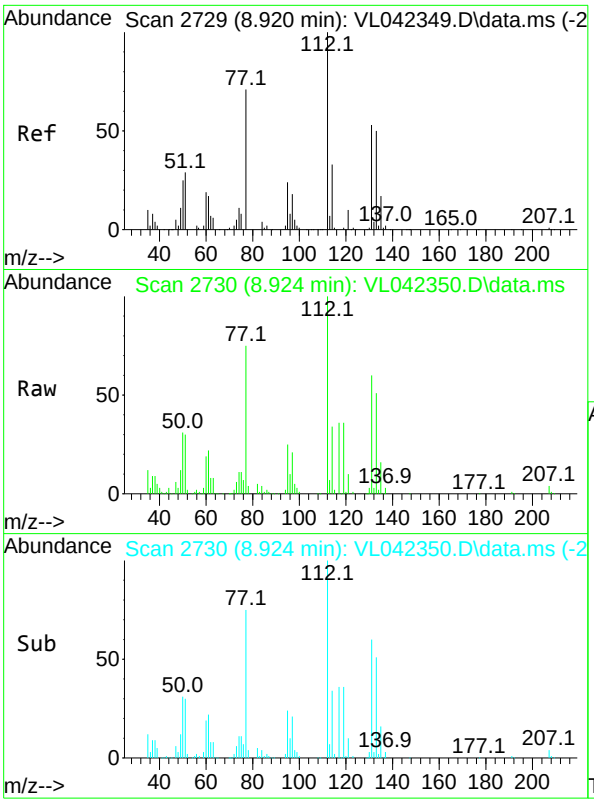


#56
1,1,1,2-Tetrachloroethane
Concen: 2.097 ppbv
RT: 8.924 min Scan# 2730
Delta R.T. -0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

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

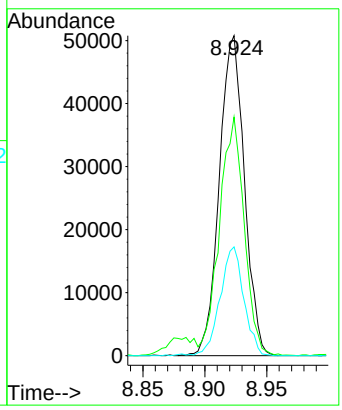




#57
Chlorobenzene
Concen: 2.054 ppbv
RT: 8.924 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion:112 Resp: 7168

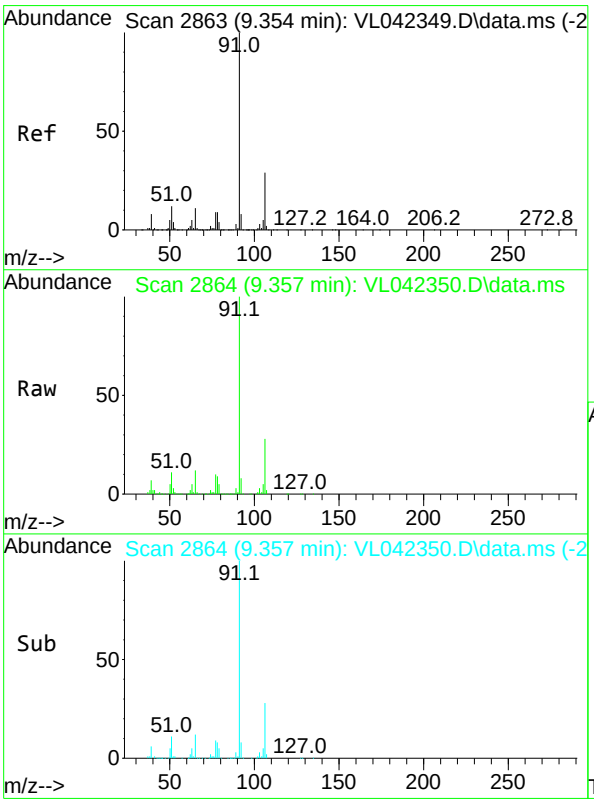
Ion	Ratio	Lower	Upper
112	100		
77	74.0	57.8	86.6
114	34.0	29.3	35.9



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

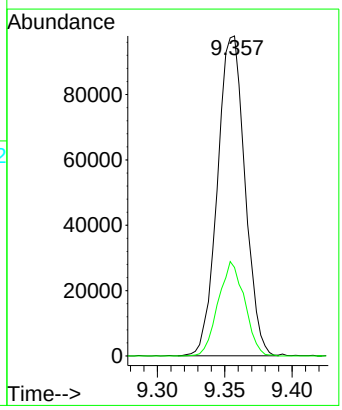
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

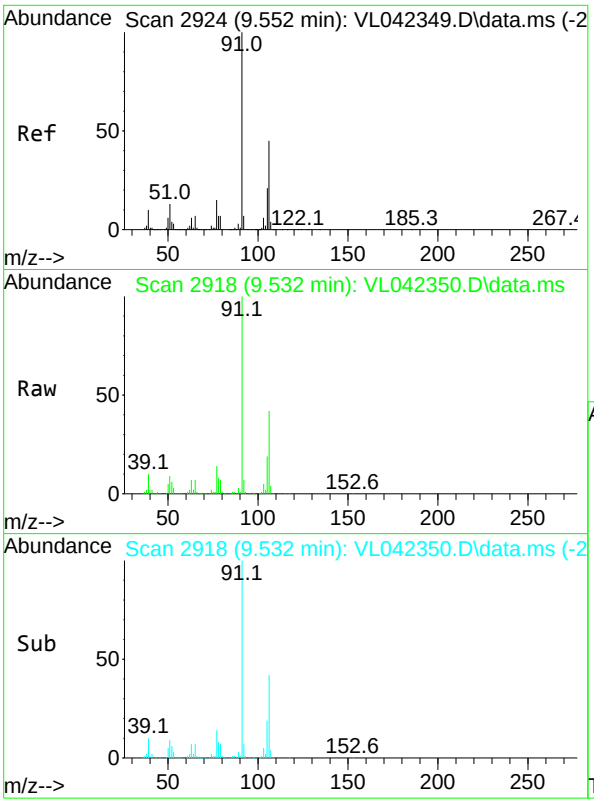


#58
Ethyl Benzene
Concen: 2.088 ppbv
RT: 9.357 min Scan# 2864
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

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

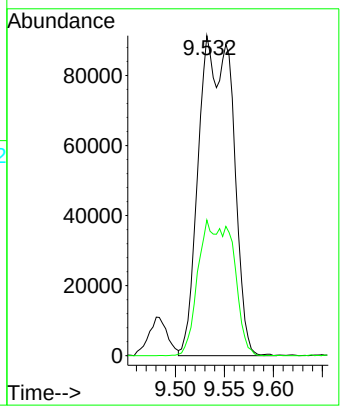
Tgt Ion: 91 Resp: 22254

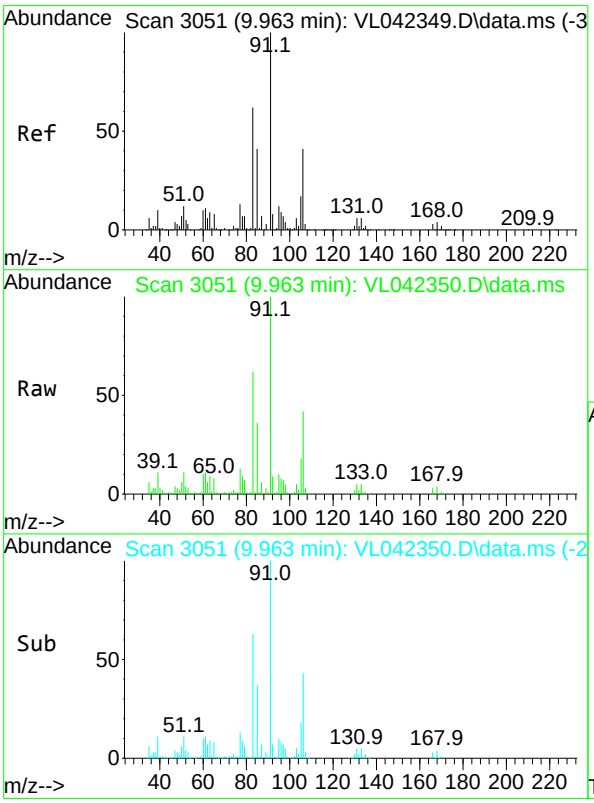
Ion	Ratio	Lower	Upper
91	100		
106	0.0	35.4	53.2

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

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

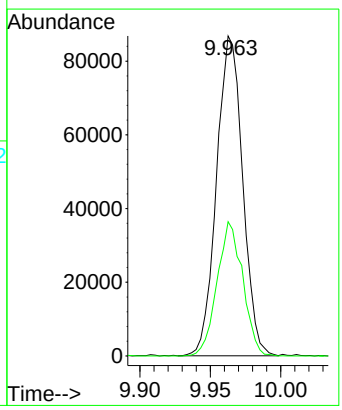


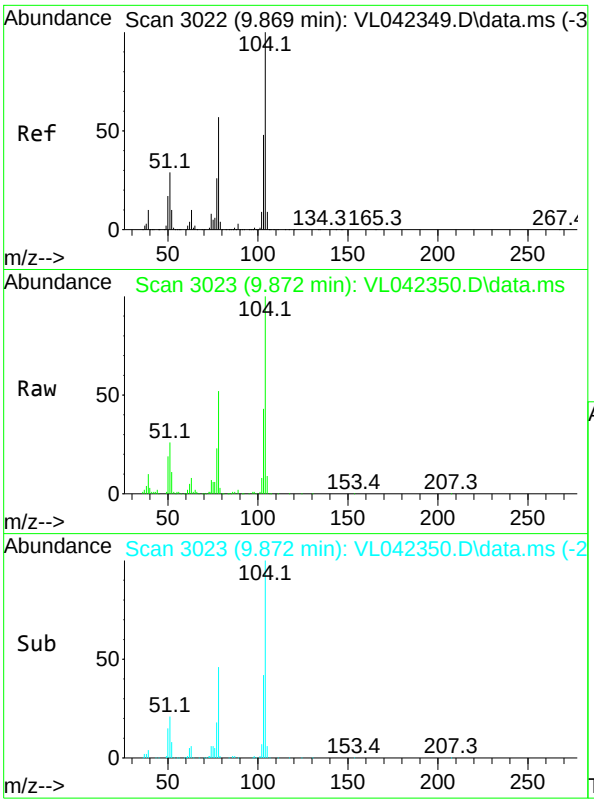


#60
o-Xylene
Concen: 2.076 ppbv
RT: 9.963 min Scan# 3051
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 91 Resp: 111972

Ion	Ratio	Lower	Upper
91	100		
106	41.2	21.1	63.4

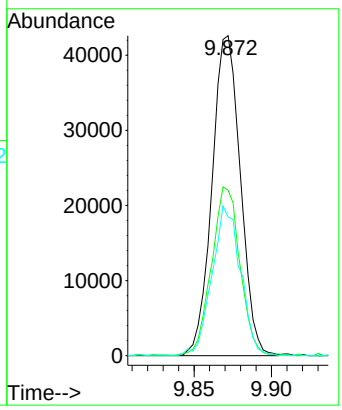




#61
Styrene
Concen: 2.106 ppbv
RT: 9.872 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion:104 Resp: 5422

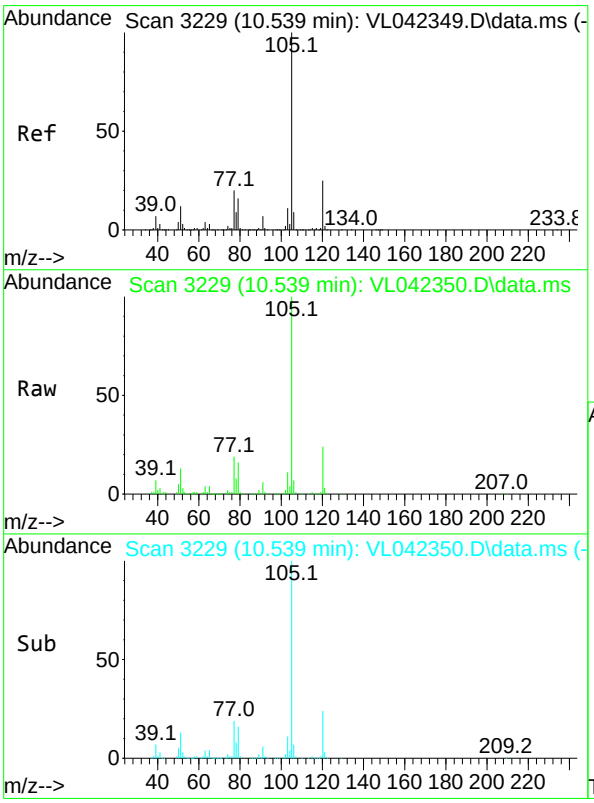
Ion	Ratio	Lower	Upper
104	100		
78	53.4	44.6	66.8
103	47.1	37.4	56.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

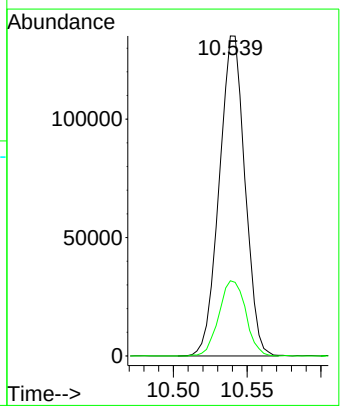
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

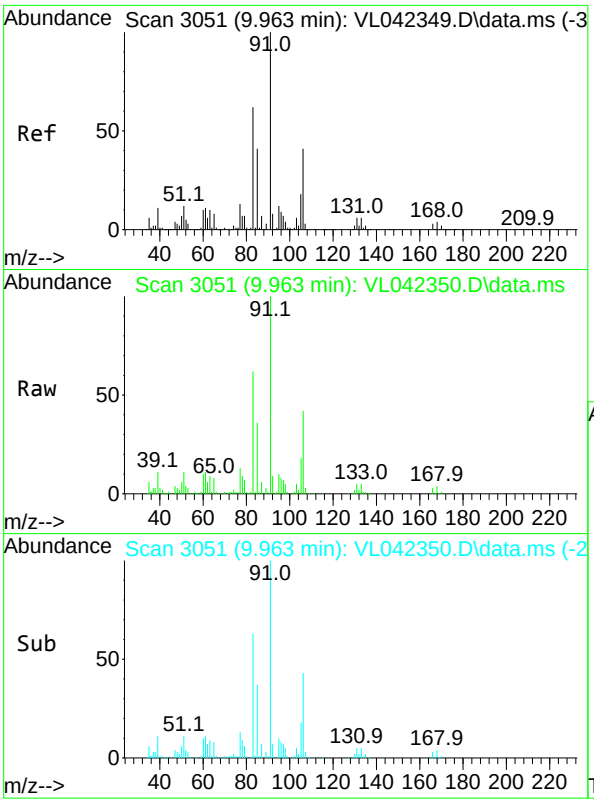


#62
Isopropylbenzene
Concen: 2.067 ppbv
RT: 10.539 min Scan# 3229
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion:105 Resp: 163716

Ion	Ratio	Lower	Upper
105	100		
120	24.6	19.8	29.8

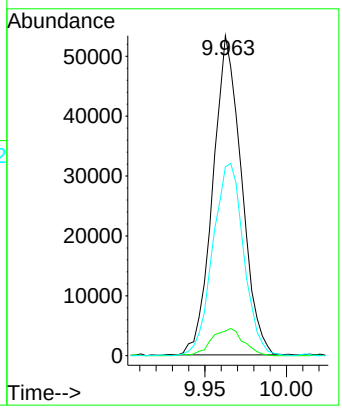




#63
1,1,2,2-Tetrachloroethane
Concen: 1.853 ppbv
RT: 9.963 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 83 Resp: 6495

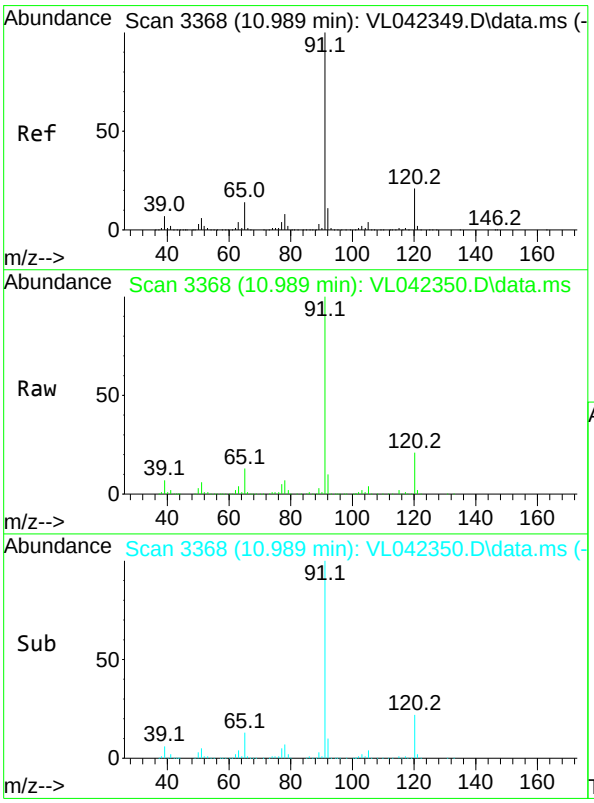
Ion	Ratio	Lower	Upper
83	100		
131	9.6	4.5	13.7
85	65.4	32.4	97.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

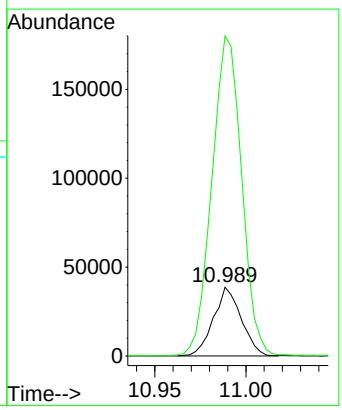
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

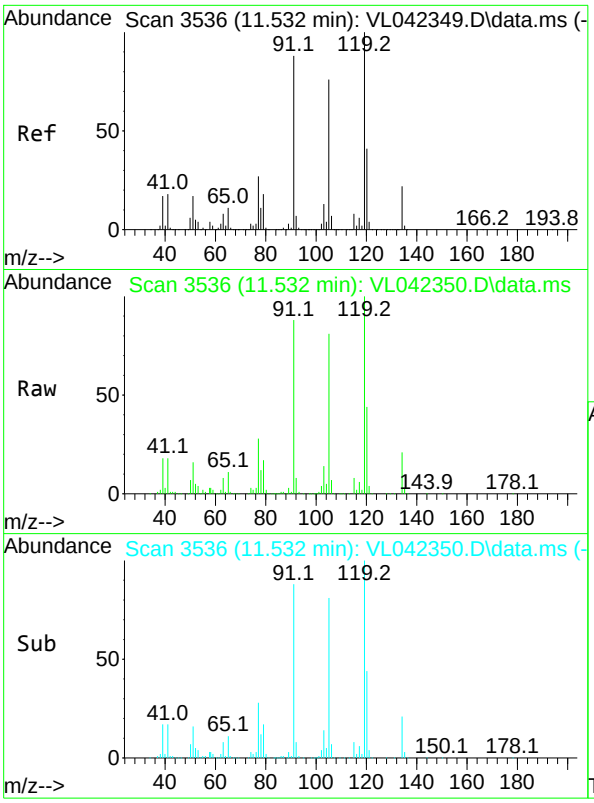


#64
n-propylbenzene
Concen: 2.058 ppbv
RT: 10.989 min Scan# 3368
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion:120 Resp: 40956

Ion	Ratio	Lower	Upper
120	100		
91	502.0	392.4	588.6

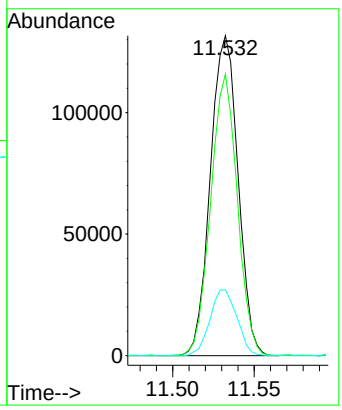




#65
tert-Butylbenzene
Concen: 2.135 ppbv
RT: 11.532 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion:119 Resp: 15540

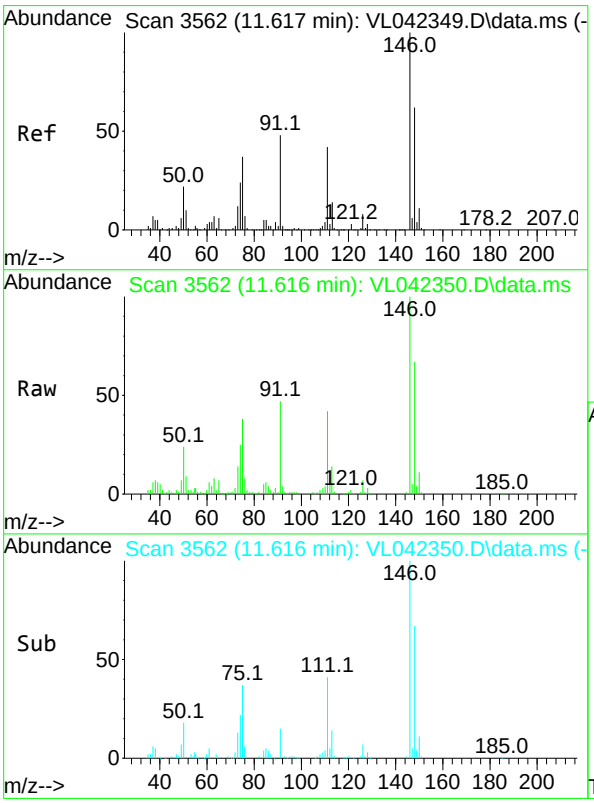
Ion	Ratio	Lower	Upper
119	100		
91	85.0	74.6	111.8
134	20.1	18.8	28.2



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

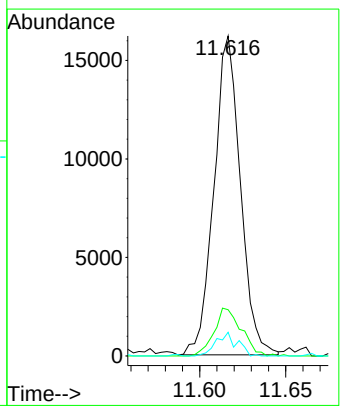
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

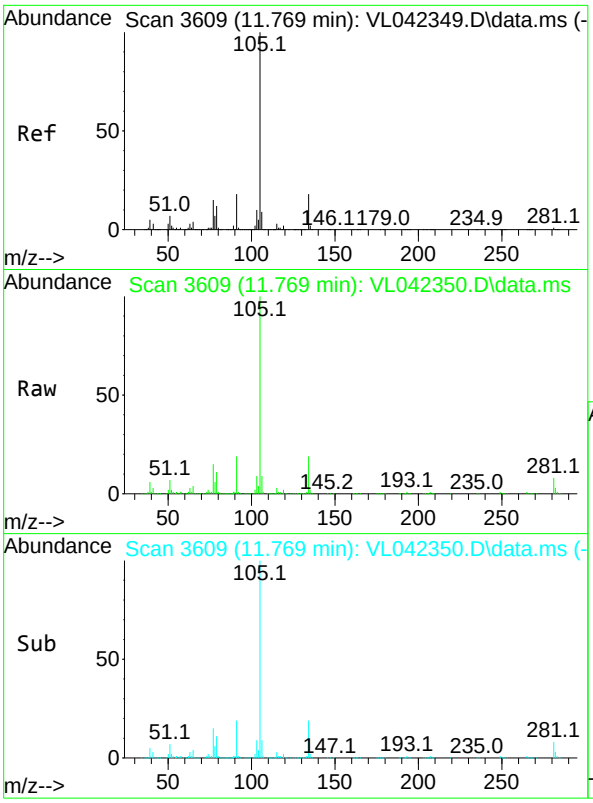


#66
Benzyl Chloride
Concen: 2.163 ppbv
RT: 11.616 min Scan# 3562
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

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

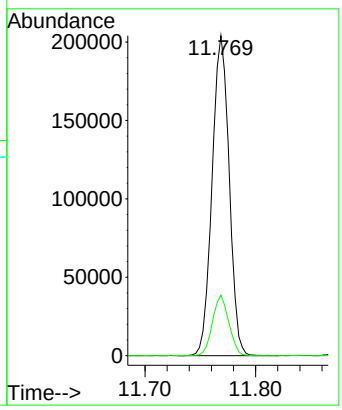




#67
sec-Butylbenzene
Concen: 2.156 ppbv
RT: 11.769 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion:105 Resp: 21832

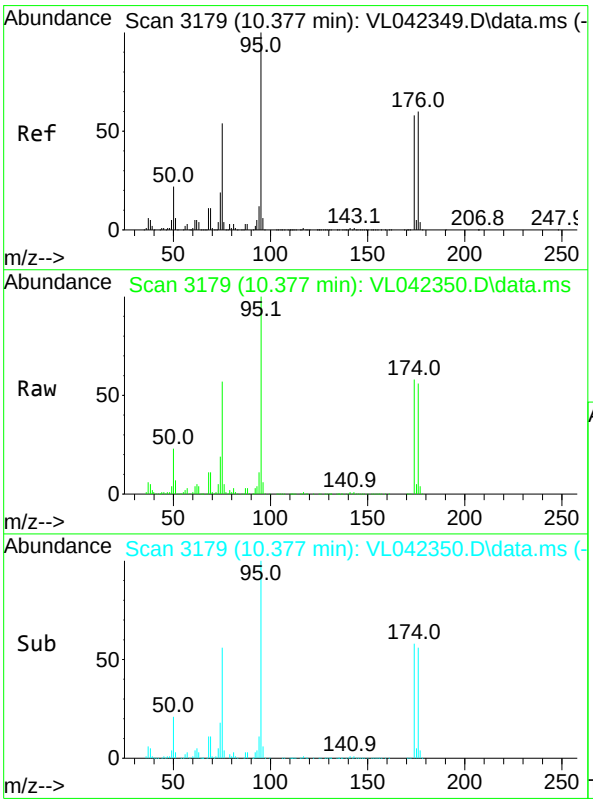
Ion	Ratio	Lower	Upper
105	100		
134	18.1	14.6	21.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

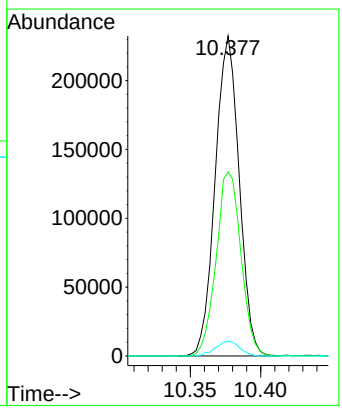
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

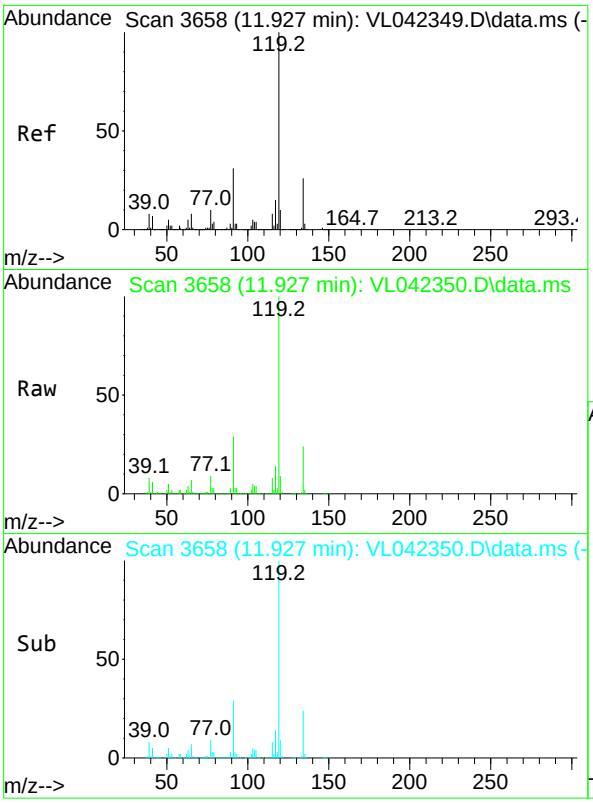


#68
1-Bromo-4-Fluorobenzene
Concen: 9.998 ppbv
RT: 10.377 min Scan# 3179
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

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

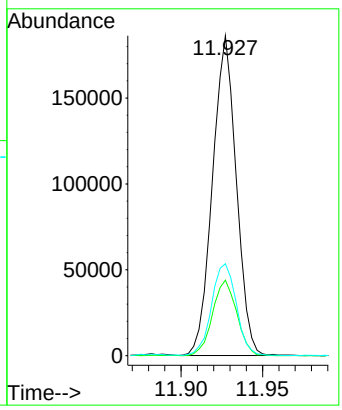




#69
p-Isopropyltoluene
Concen: 2.145 ppbv
RT: 11.927 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion:119 Resp: 18865

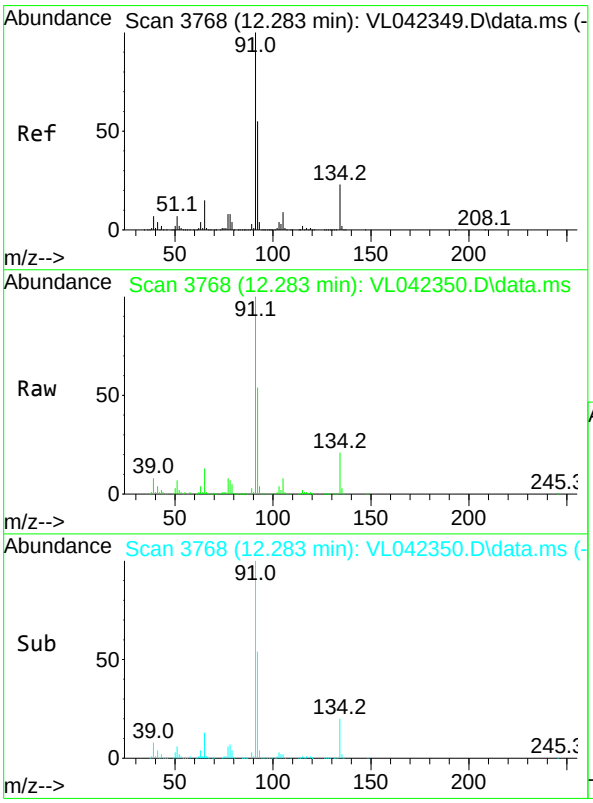
Ion	Ratio	Lower	Upper
119	100		
134	24.2	20.0	30.0
91	30.8	24.4	36.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

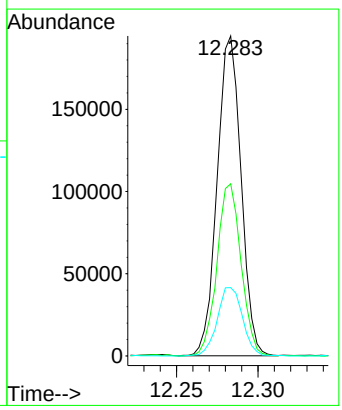
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

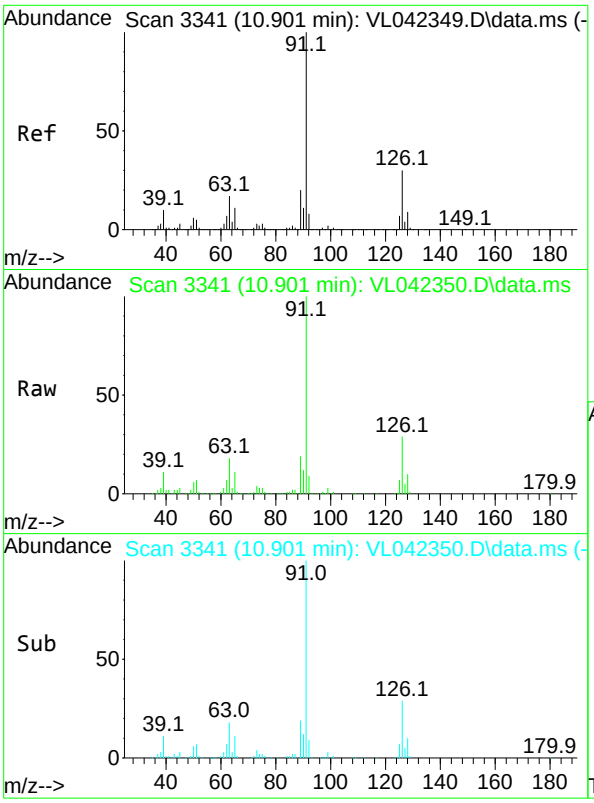


#70
n-Butylbenzene
Concen: 2.164 ppbv
RT: 12.283 min Scan# 3768
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

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

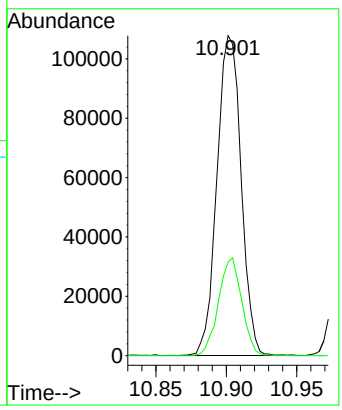




#71
2-Chlorotoluene
Concen: 2.075 ppbv
RT: 10.901 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 91 Resp: 12885

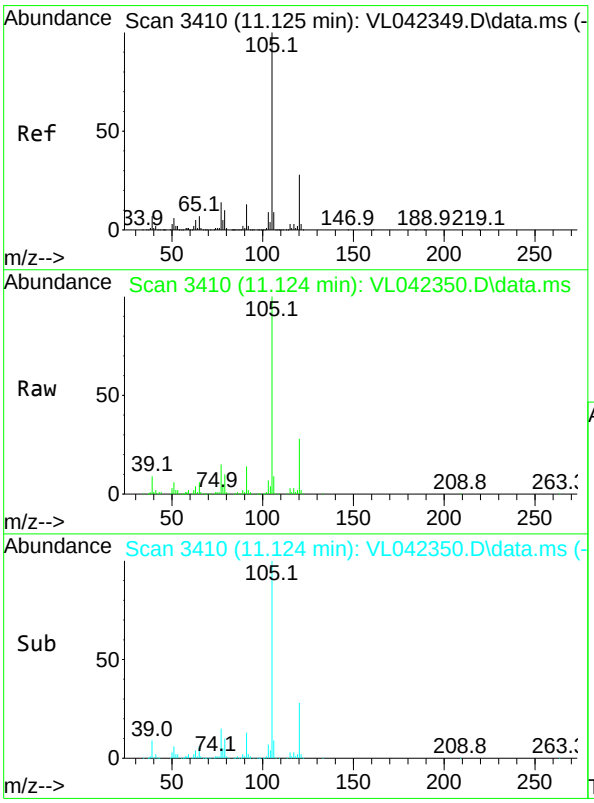
Ion	Ratio	Lower	Upper
91	100		
126	29.5	11.4	45.4



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

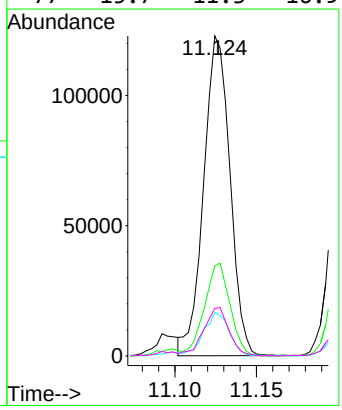
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

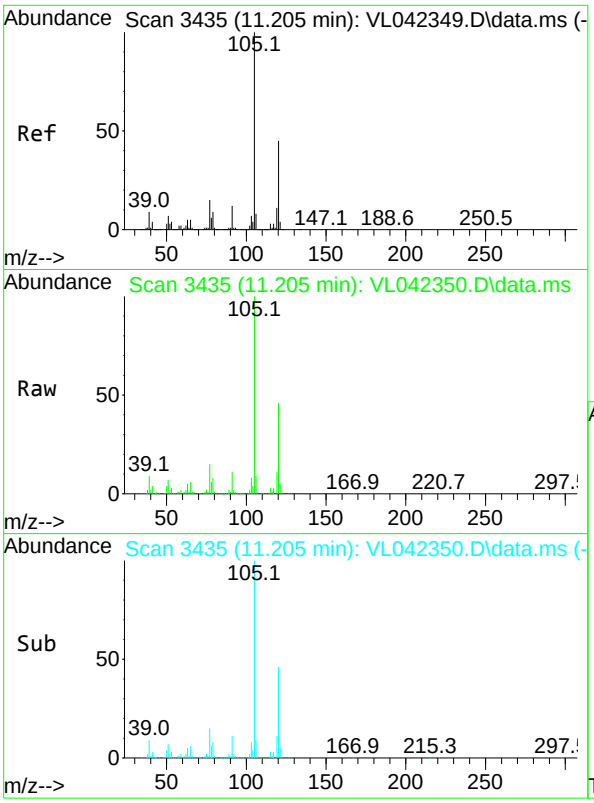


#72
4-Ethyltoluene
Concen: 2.091 ppbv
RT: 11.124 min Scan# 3410
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

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

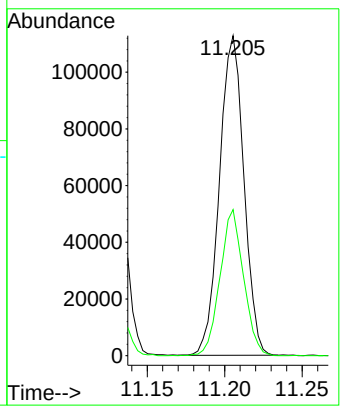




#73
1,3,5-Trimethylbenzene
Concen: 2.123 ppbv
RT: 11.205 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion:105 Resp: 12358

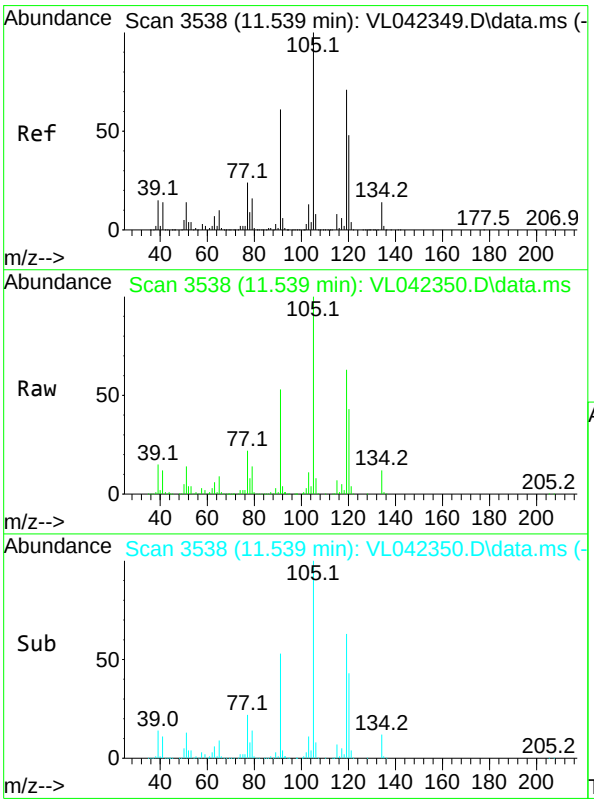
Ion	Ratio	Lower	Upper
105	100		
120	45.7	35.6	53.4



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

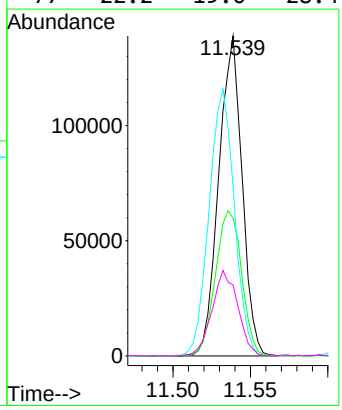
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

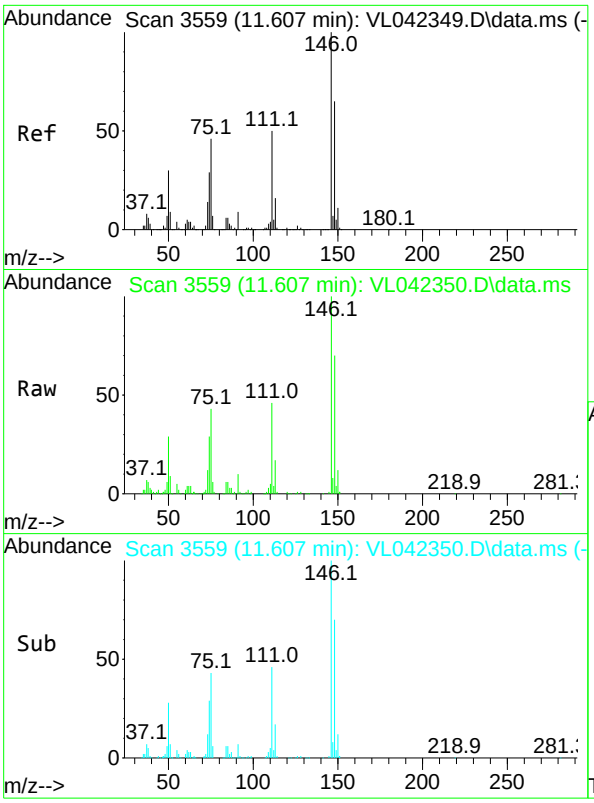


#74
1,2,4-Trimethylbenzene
Concen: 2.140 ppbv
RT: 11.539 min Scan# 3538
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

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

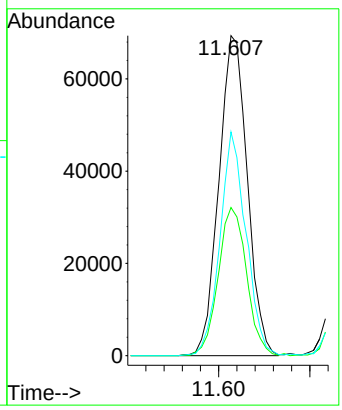




#75
1,3-Dichlorobenzene
Concen: 2.124 ppbv
RT: 11.607 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion:146 Resp: 7508

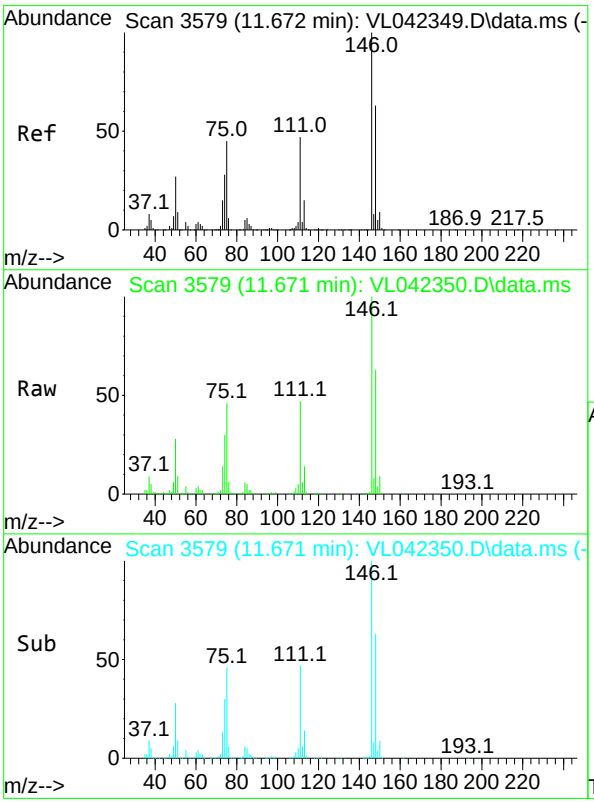
Ion	Ratio	Lower	Upper
146	100		
111	46.3	24.3	72.8
148	64.3	31.6	94.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

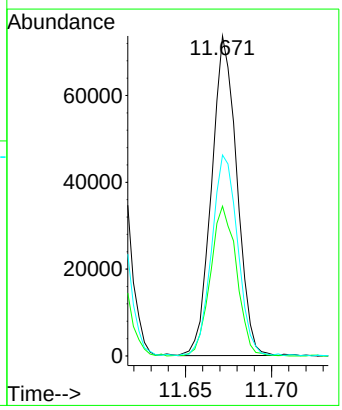
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

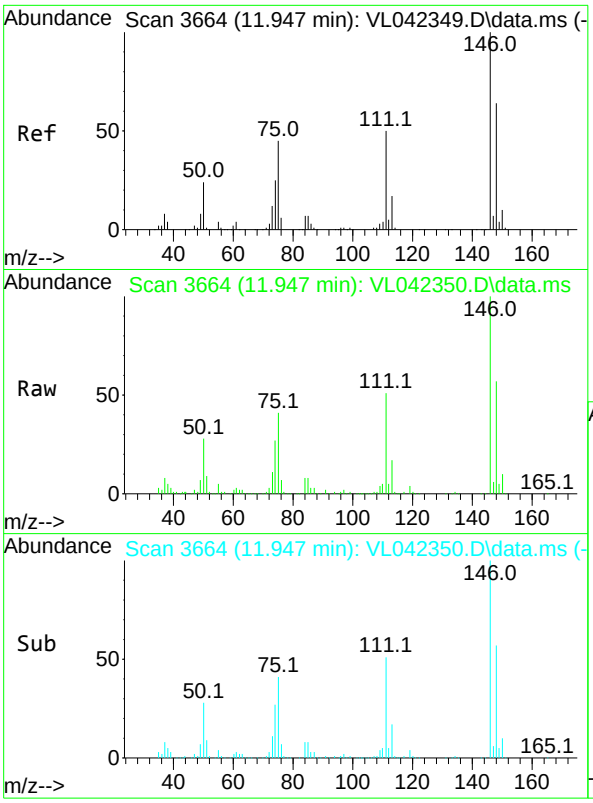


#76
1,4-Dichlorobenzene
Concen: 2.120 ppbv
RT: 11.671 min Scan# 3579
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

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

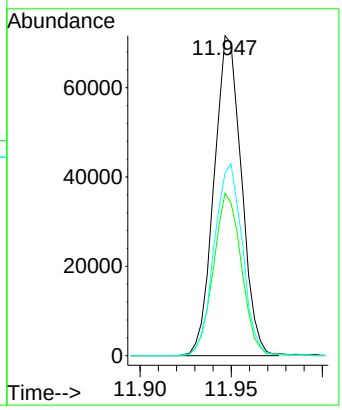




#77
1,2-Dichlorobenzene
Concen: 2.176 ppbv
RT: 11.947 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion:146 Resp: 7478

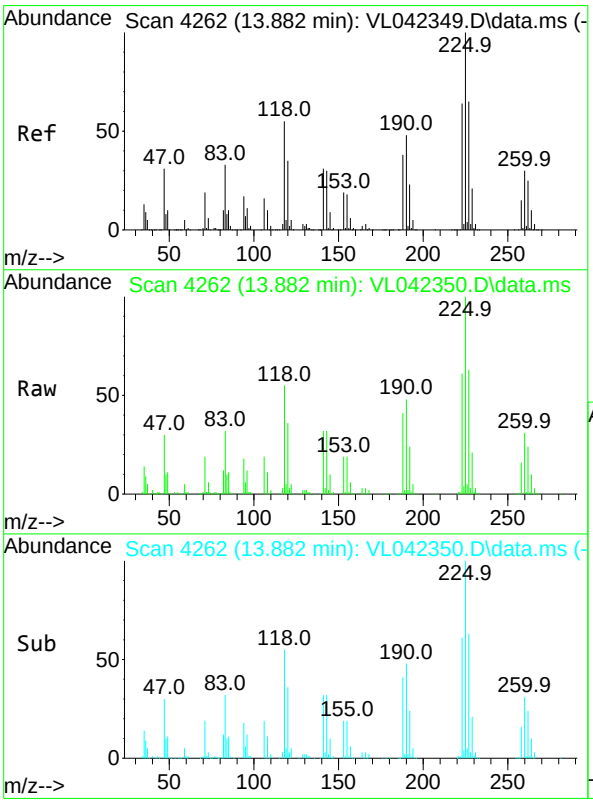
Ion	Ratio	Lower	Upper
146	100		
111	52.0	25.3	75.9
148	61.8	31.5	94.5



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

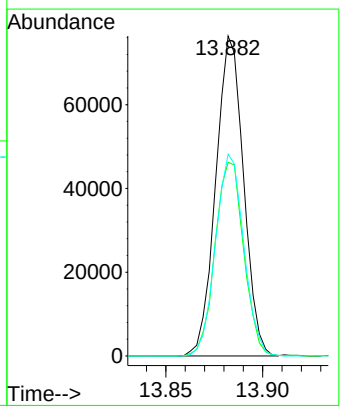
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

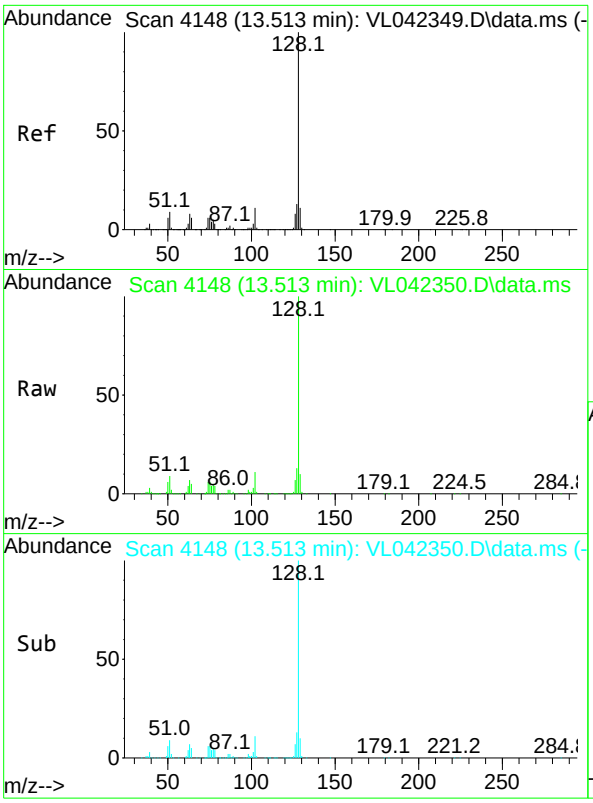


#78
Hexachloro-1,3-Butadiene
Concen: 2.194 ppbv
RT: 13.882 min Scan# 4262
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

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

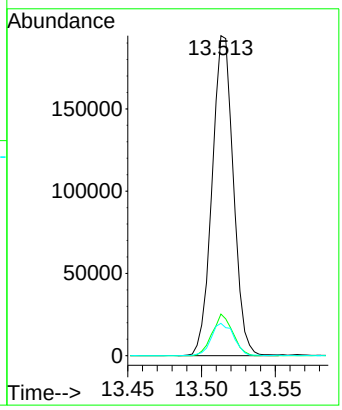




#79
Naphthalene
Concen: 2.401 ppbv
RT: 13.513 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion:128 Resp: 19523

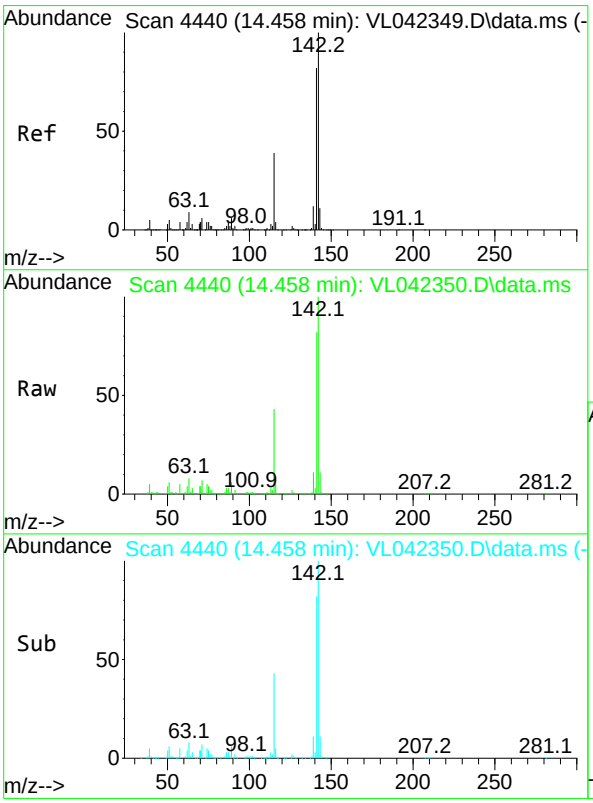
Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.6	15.8
129	10.1	8.6	12.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

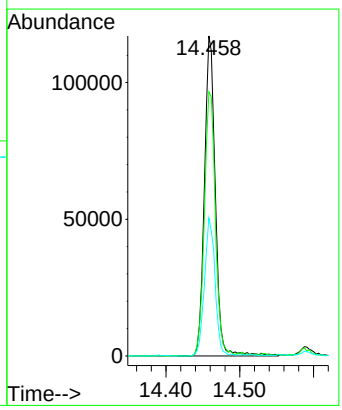
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

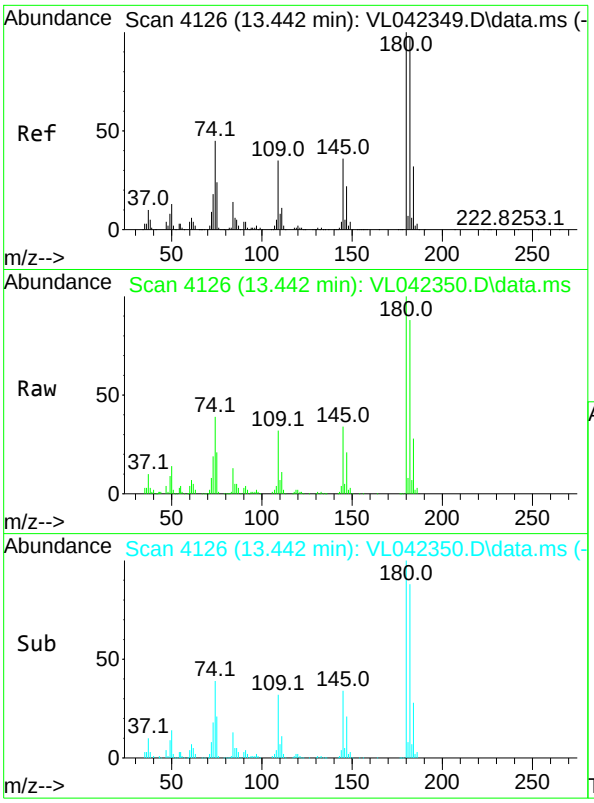


#80
Naphthalene,2-methyl-
Concen: 2.574 ppbv
RT: 14.458 min Scan# 4440
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

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

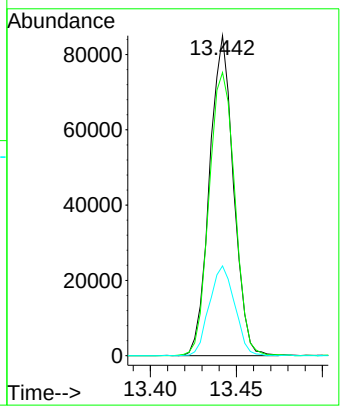




#81
1,2,4-Trichlorobenzene
Concen: 2.353 ppbv
RT: 13.442 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

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 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)
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

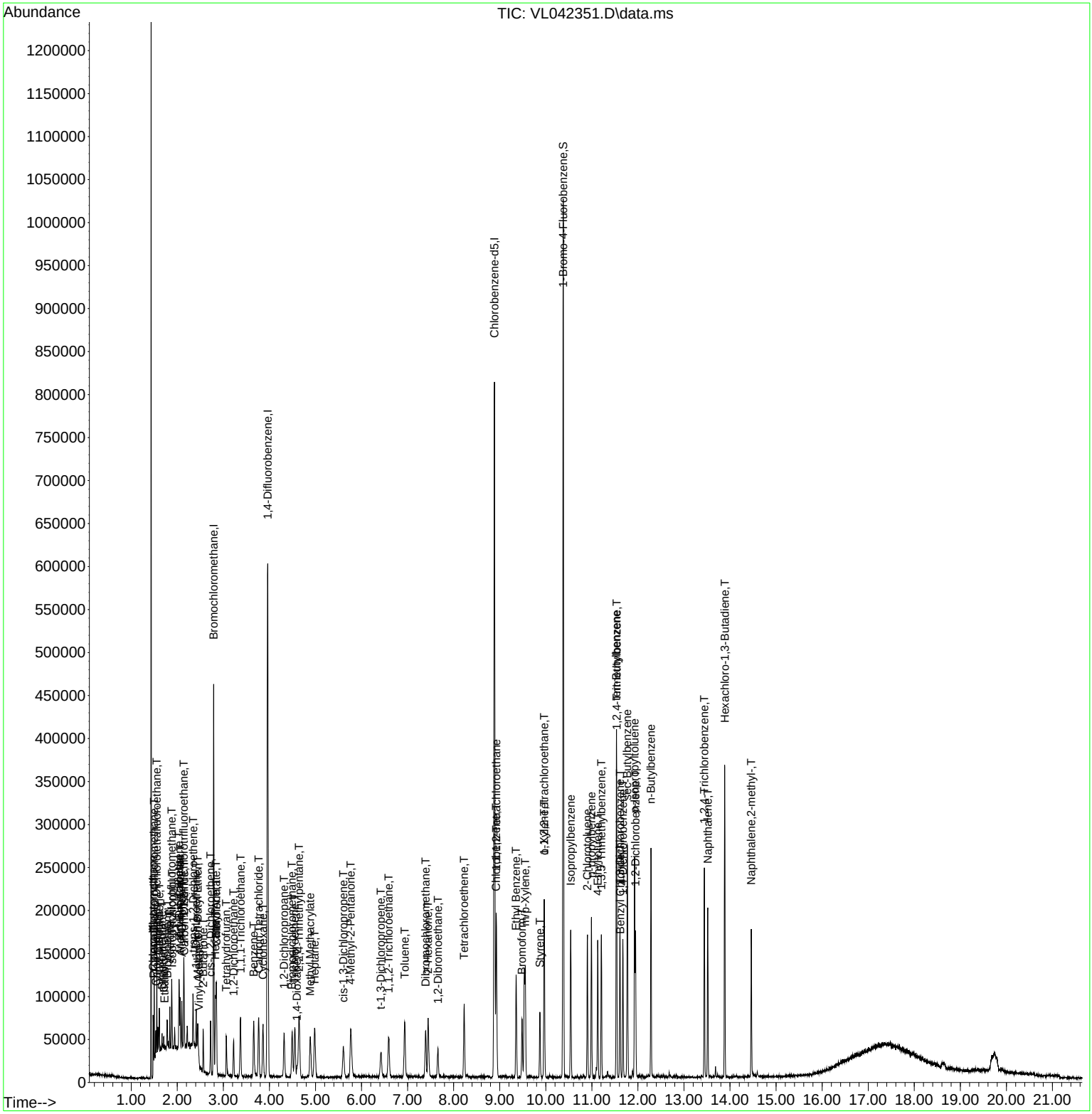
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042351.D
Acq On : 17 Apr 2025 10:48
Operator : SY/MD
Sample : VSTDICC001
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

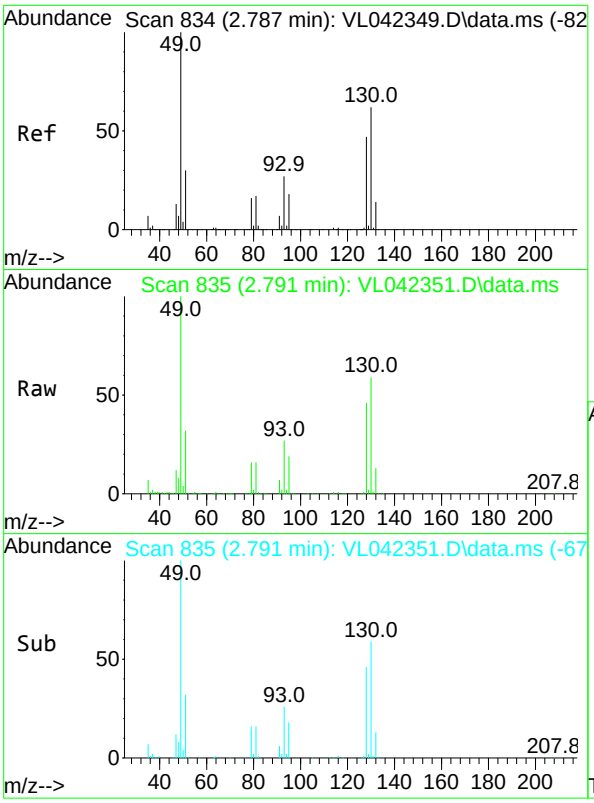
Quant Time: Apr 18 01:27:33 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Apr 18 01:24:29 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

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

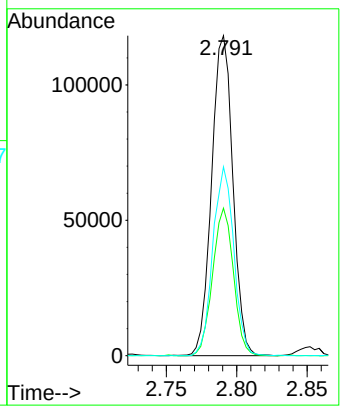




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.791 min Scan# 8
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 49 Resp: 12417

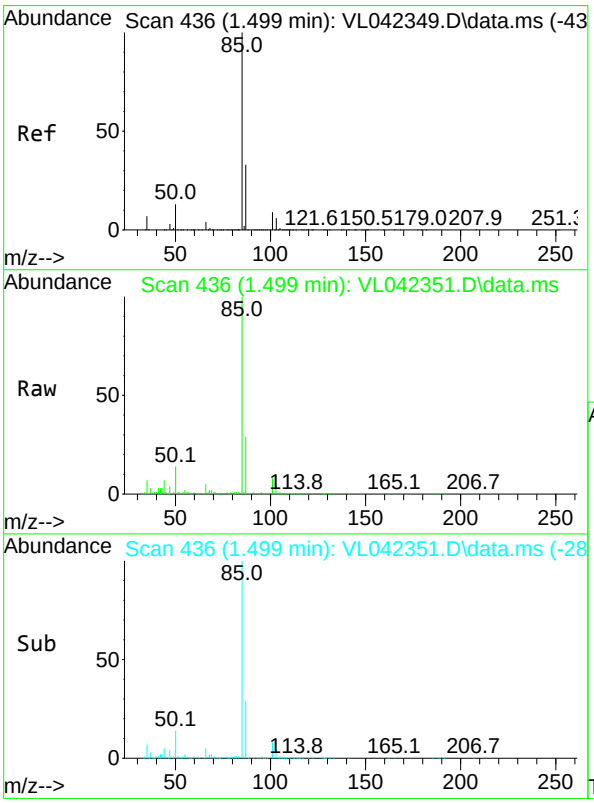
Ion	Ratio	Lower	Upper
49	100		
128	45.2	22.8	68.4
130	58.1	29.3	88.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

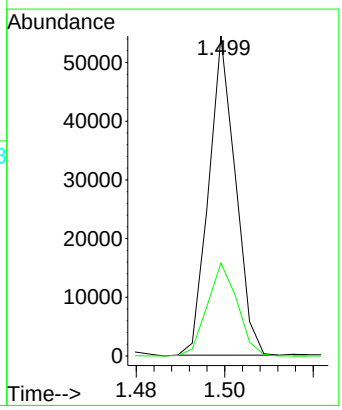
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

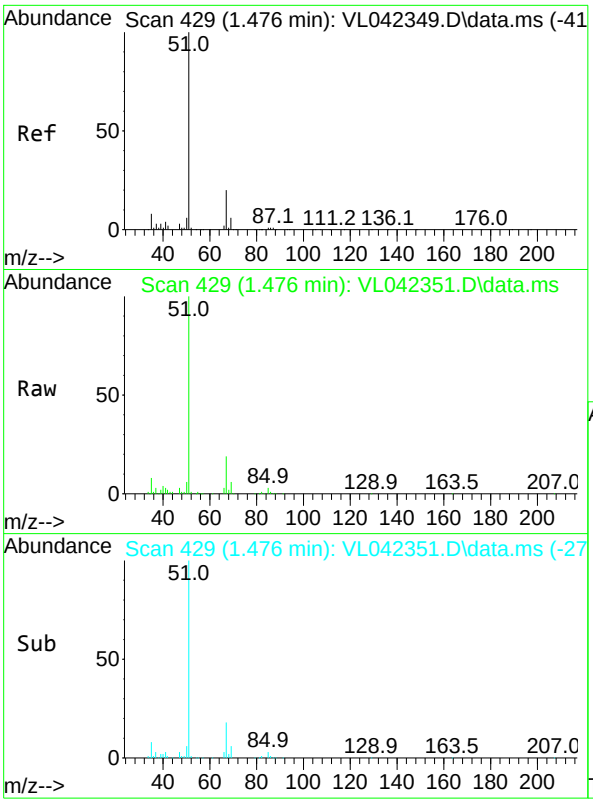


#2
Dichlorodifluoromethane
Concen: 1.040 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 85 Resp: 22816

Ion	Ratio	Lower	Upper
85	100		
87	29.1	26.6	39.8

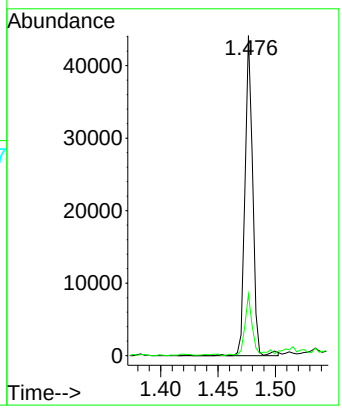




#3
Chlorodifluoromethane
Concen: 0.985 ppbv
RT: 1.476 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 51 Resp: 2057

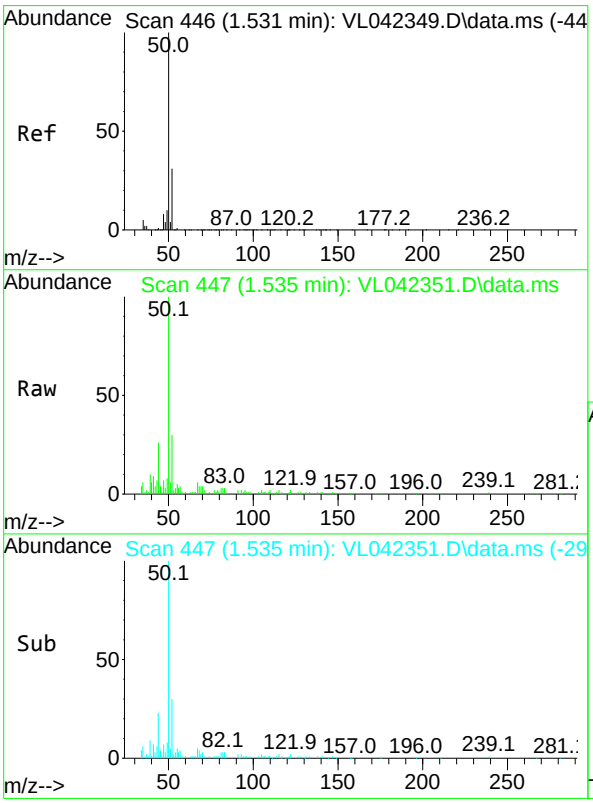
Ion	Ratio	Lower	Upper
51	100		
67	19.1	16.2	24.4



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

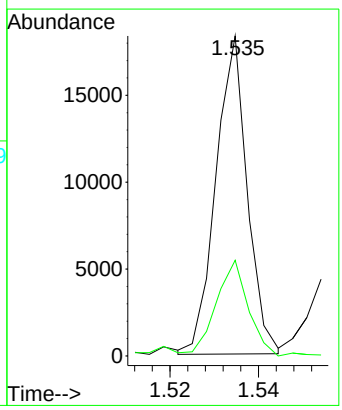
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

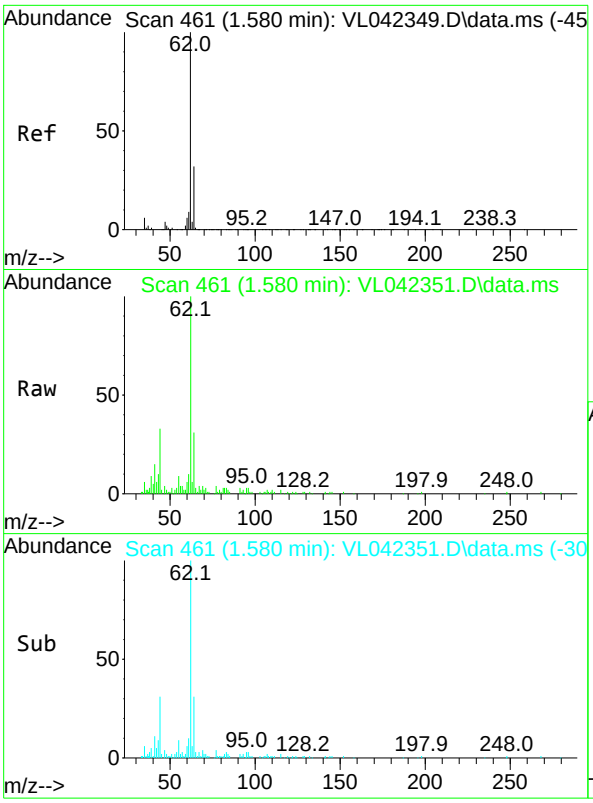


#4
Chloromethane
Concen: 1.038 ppbv
RT: 1.535 min Scan# 447
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 50 Resp: 9008

Ion	Ratio	Lower	Upper
50	100		
52	30.4	24.7	37.1

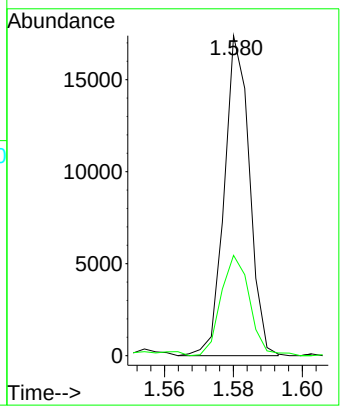




#5
Vinyl Chloride
Concen: 0.932 ppbv
RT: 1.580 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 62 Resp: 880

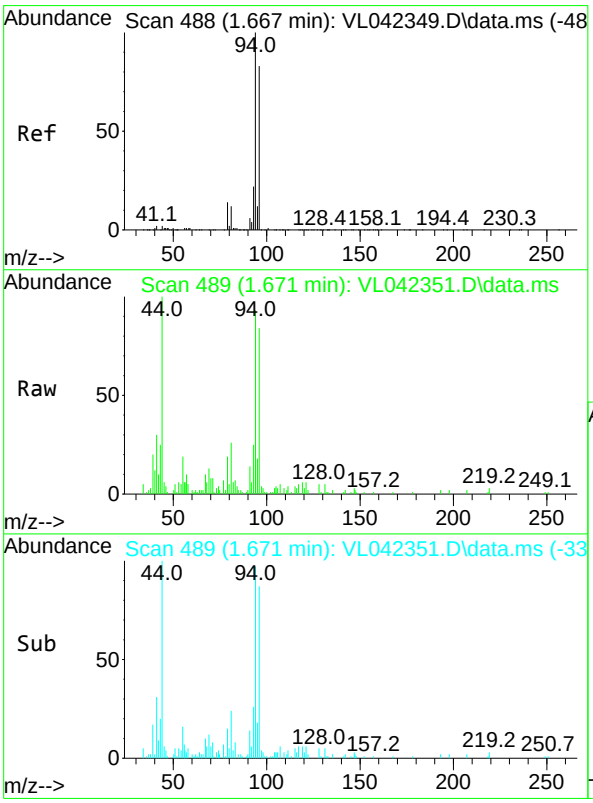
Ion	Ratio	Lower	Upper
62	100		
64	30.5	25.4	38.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

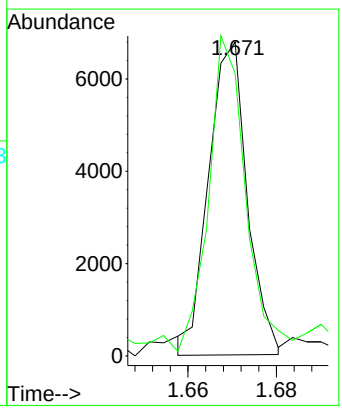
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

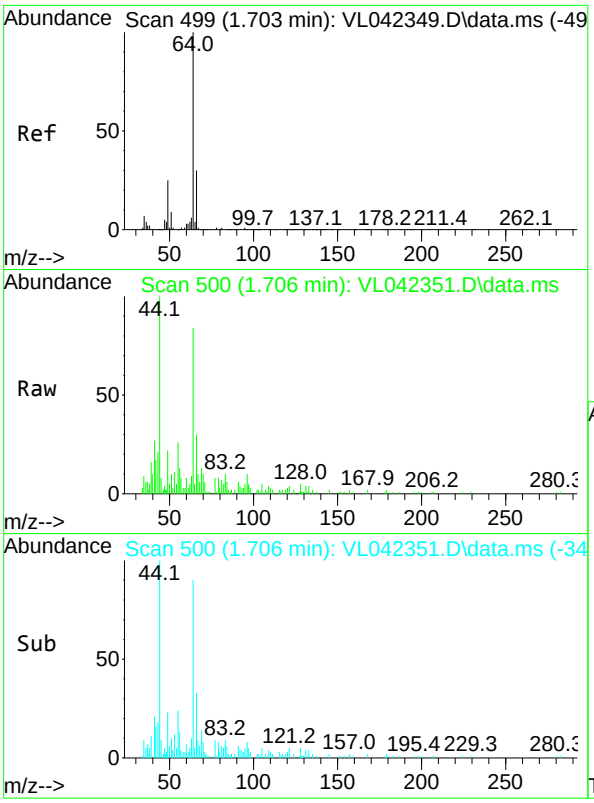


#6
Bromomethane
Concen: 1.001 ppbv
RT: 1.671 min Scan# 489
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 94 Resp: 4099

Ion	Ratio	Lower	Upper
94	100		
96	91.0	66.2	99.2

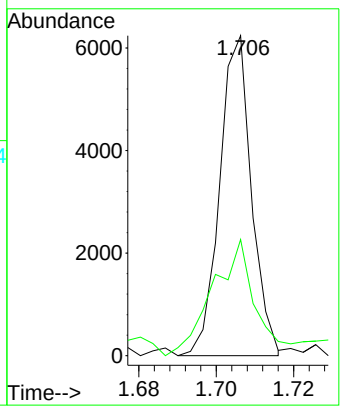




#7
Chloroethane
Concen: 1.041 ppbv
RT: 1.706 min Scan# 5
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 64 Resp: 355

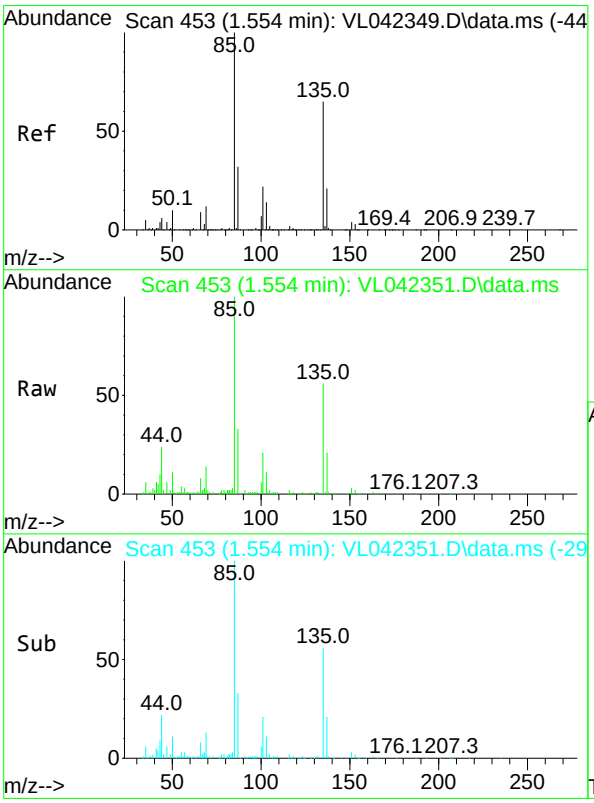
Ion	Ratio	Lower	Upper
64	100		
66	36.3	24.6	37.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

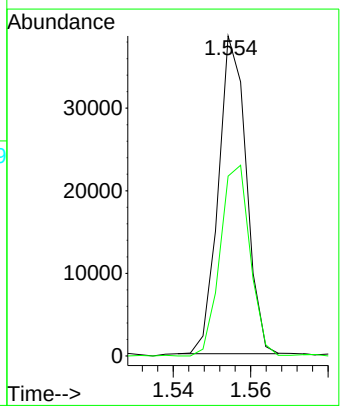
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

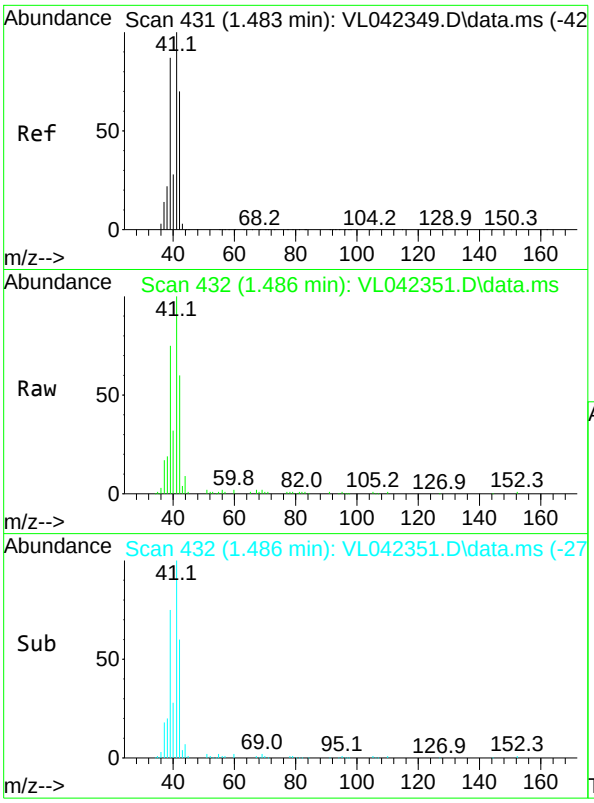


#8
Dichlorotetrafluoroethane
Concen: 1.022 ppbv
RT: 1.554 min Scan# 453
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 85 Resp: 19251

Ion	Ratio	Lower	Upper
85	100		
135	65.2	52.2	78.2

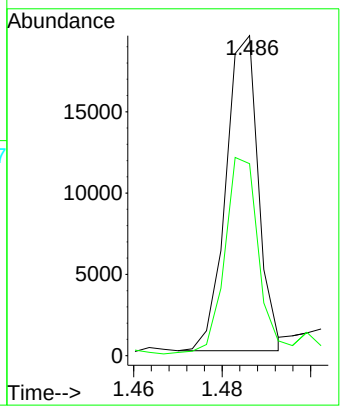




#9
Propene
Concen: 1.040 ppbv
RT: 1.486 min Scan# 4
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 41 Resp: 989

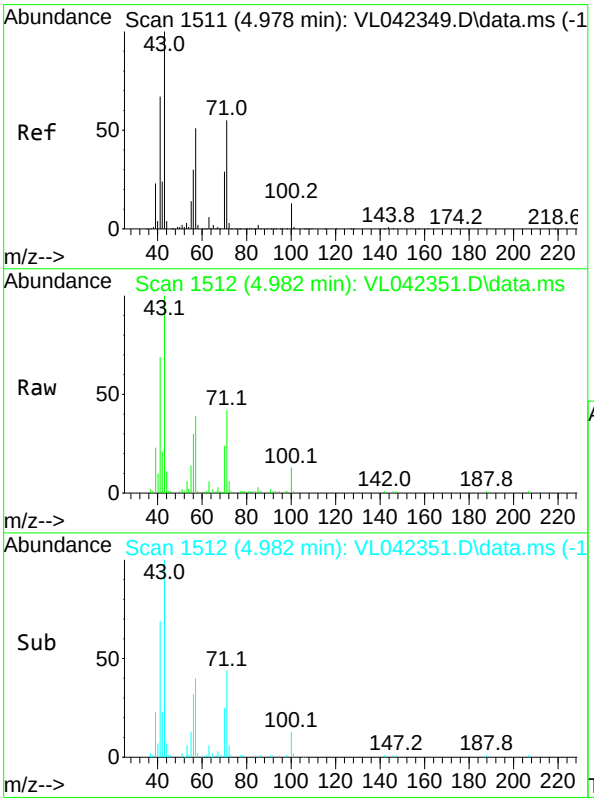
Ion	Ratio	Lower	Upper
41	100		
42	77.2	56.2	84.4



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

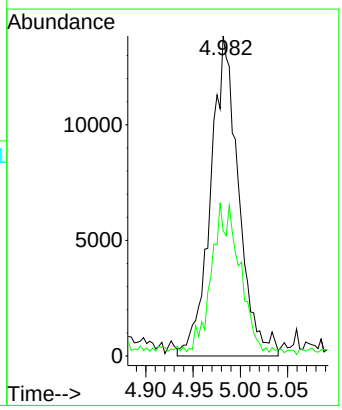
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

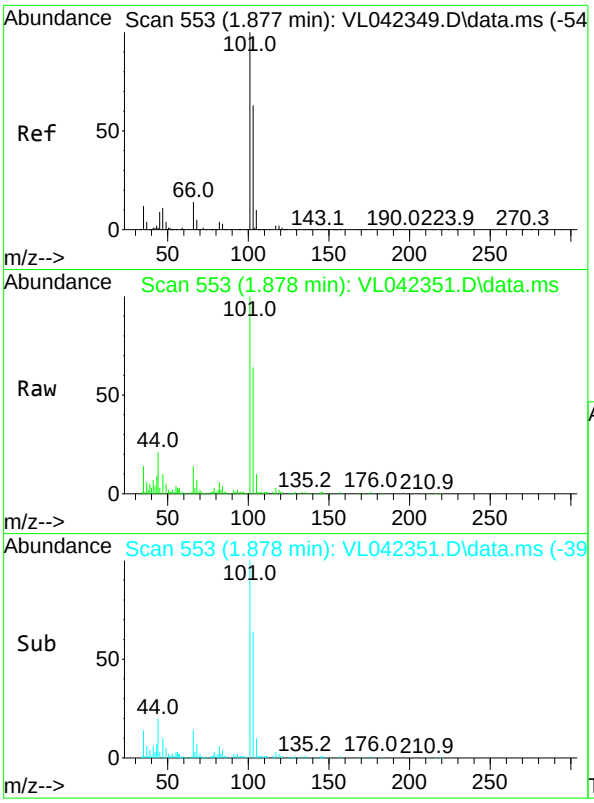


#10
Heptane
Concen: 1.114 ppbv m
RT: 4.982 min Scan# 1512
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

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

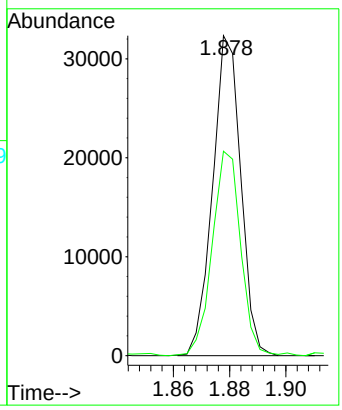
Tgt Ion:101 Resp: 2242

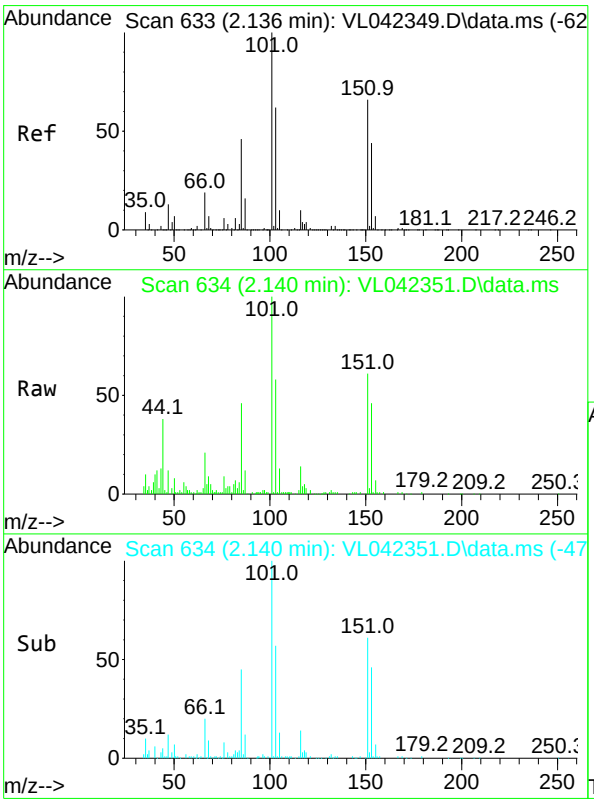
Ion	Ratio	Lower	Upper
101	100		
103	63.6	50.1	75.1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

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

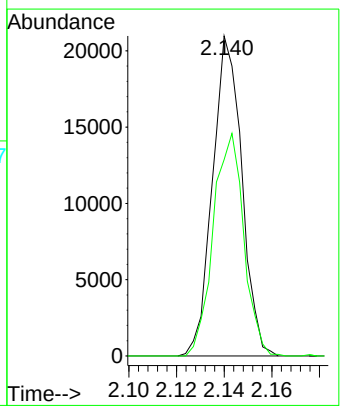


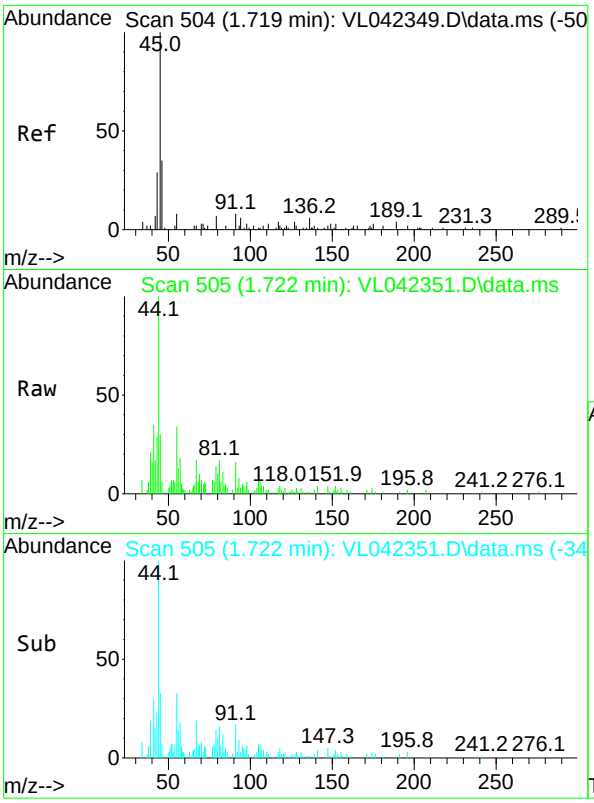


#12
1,1,2-Trichlorotrifluoroethane
Concen: 1.047 ppbv
RT: 2.140 min Scan# 634
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion:101 Resp: 17865

Ion	Ratio	Lower	Upper
101	100		
151	72.6	57.0	85.6

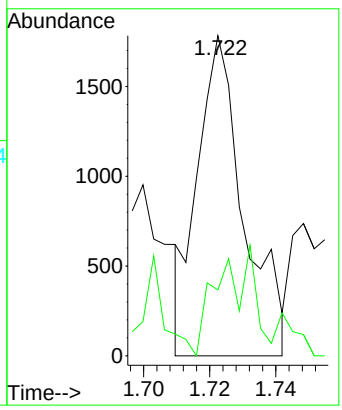




#13
Ethanol
Concen: 2.225 ppbv m
RT: 1.722 min Scan# 5(
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 45 Resp: 173(

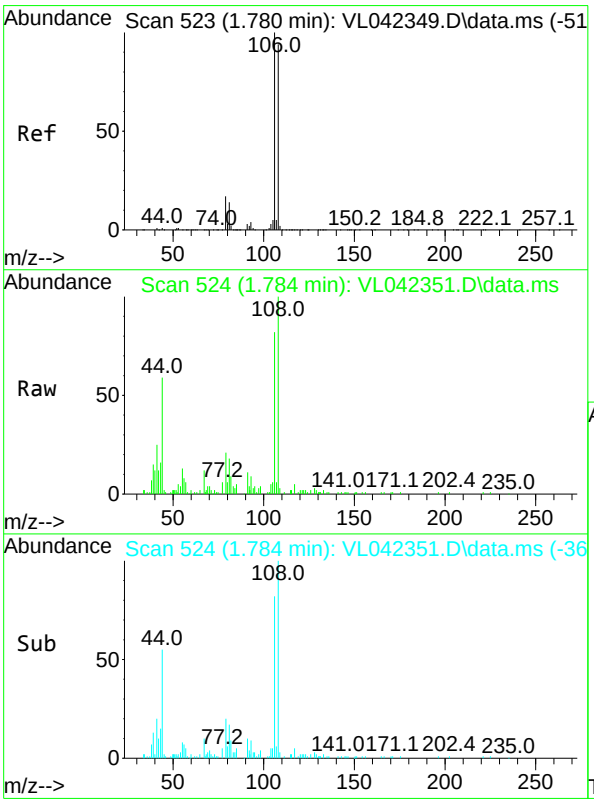
Ion	Ratio	Lower	Upper
45	100		
46	44.9	21.9	87.7



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

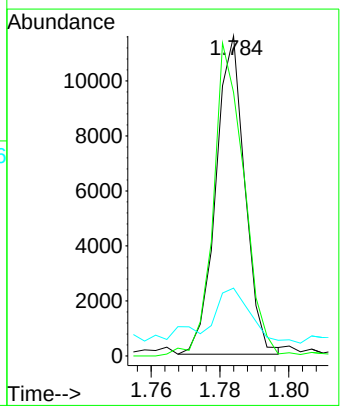
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

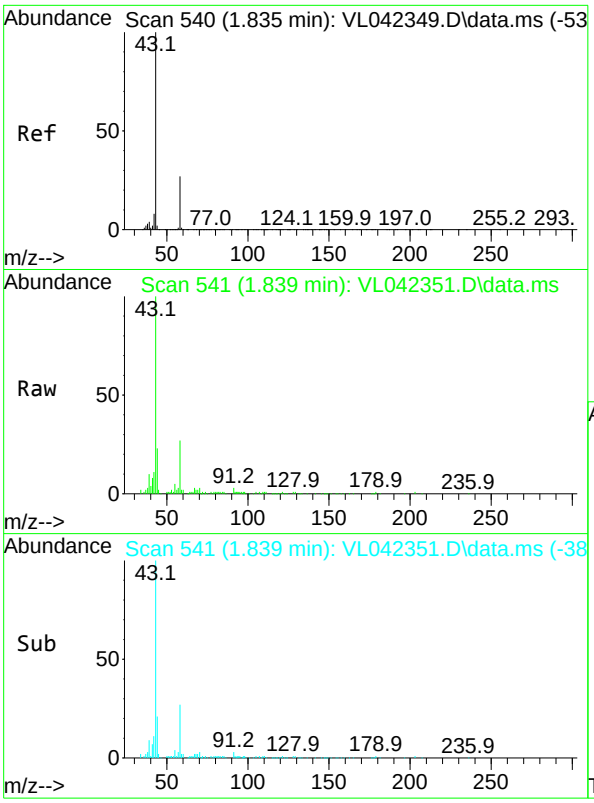


#14
Bromoethene
Concen: 1.052 ppbv
RT: 1.784 min Scan# 524
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

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#

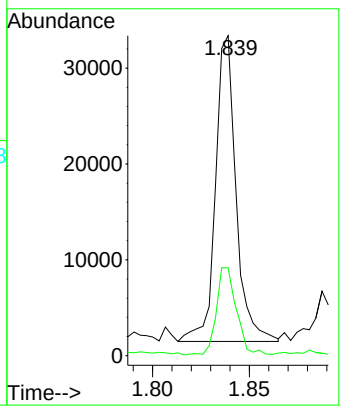




#15
Acetone
Concen: 1.158 ppbv
RT: 1.839 min Scan# 54
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 43 Resp: 2353

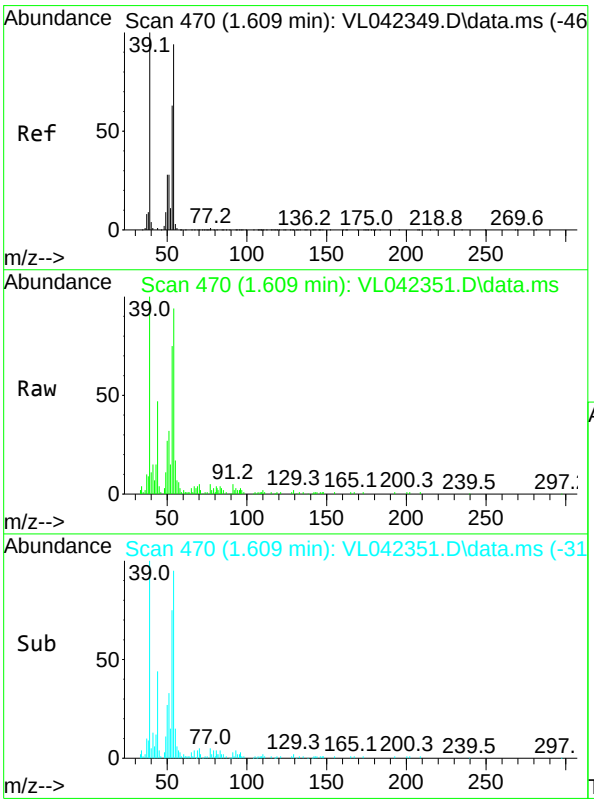
Ion	Ratio	Lower	Upper
43	100		
58	29.4	22.4	33.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

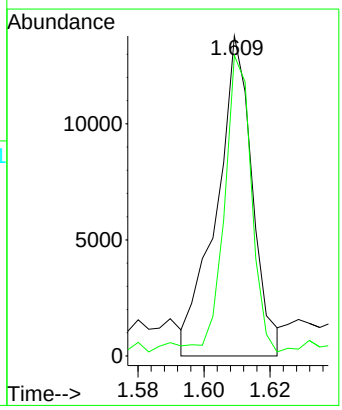
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

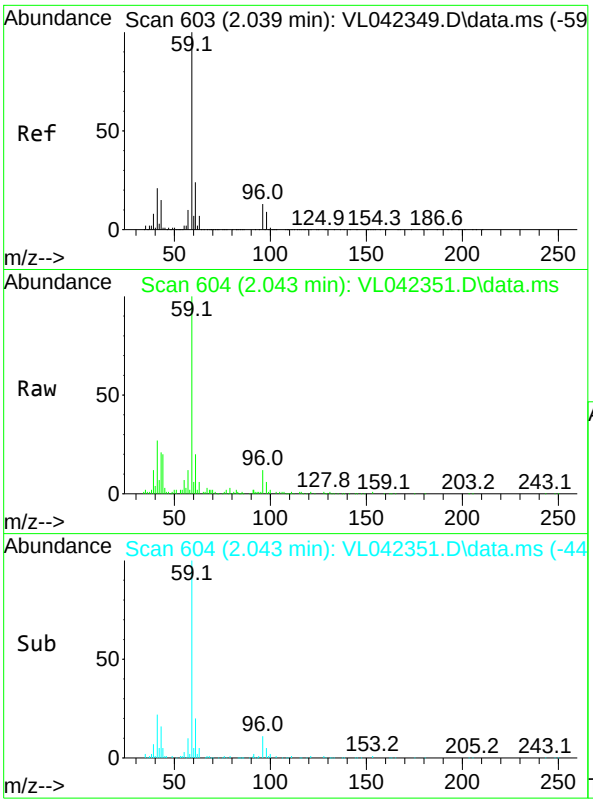


#16
1,3-Butadiene
Concen: 1.087 ppbv m
RT: 1.609 min Scan# 470
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

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

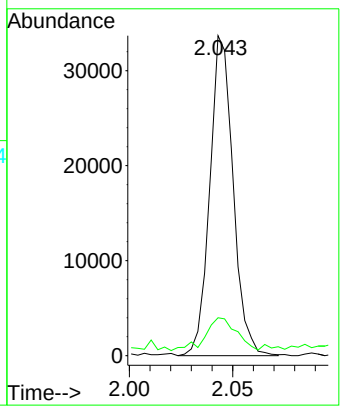
Tgt Ion: 59 Resp: 2647

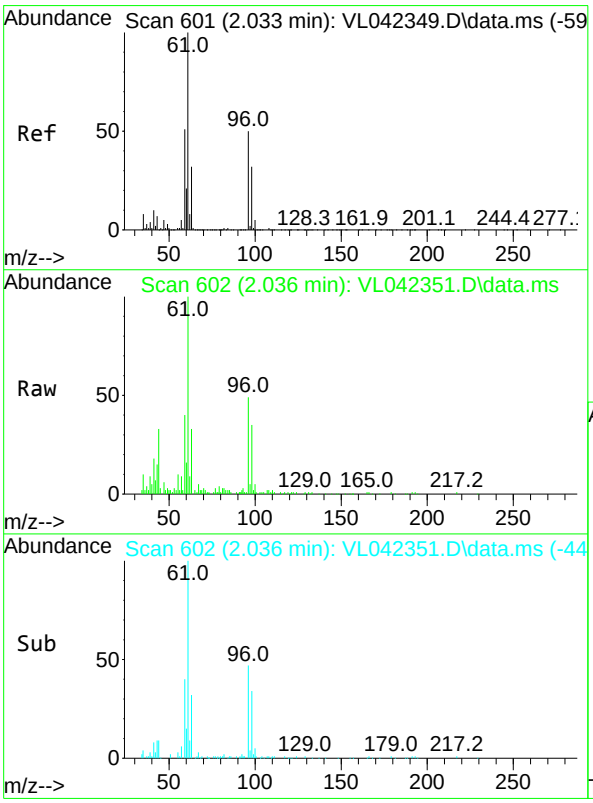
Ion	Ratio	Lower	Upper
59	100		
57	14.6	8.7	13.1#

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

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

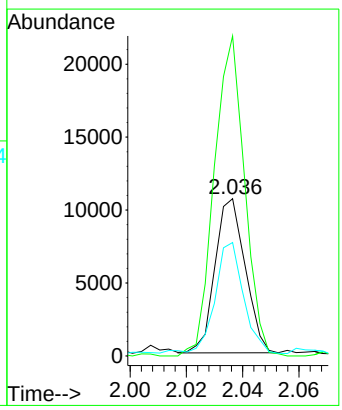


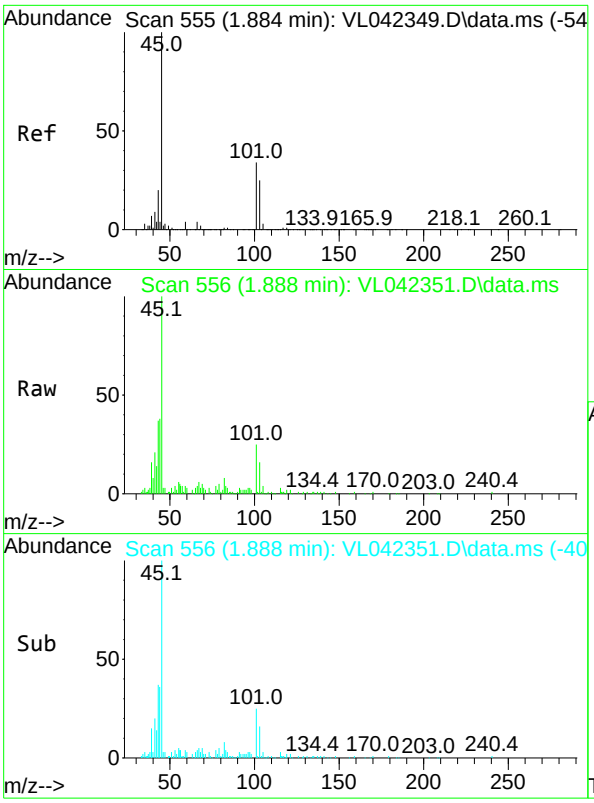


#18
1,1-Dichloroethene
Concen: 0.962 ppbv
RT: 2.036 min Scan# 602
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

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

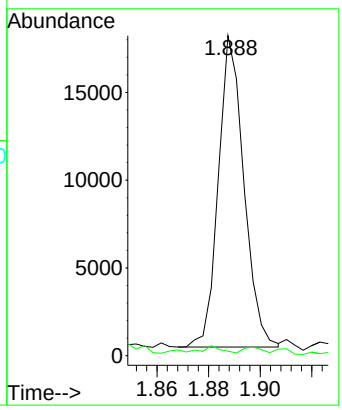
Tgt Ion: 45 Resp: 1217

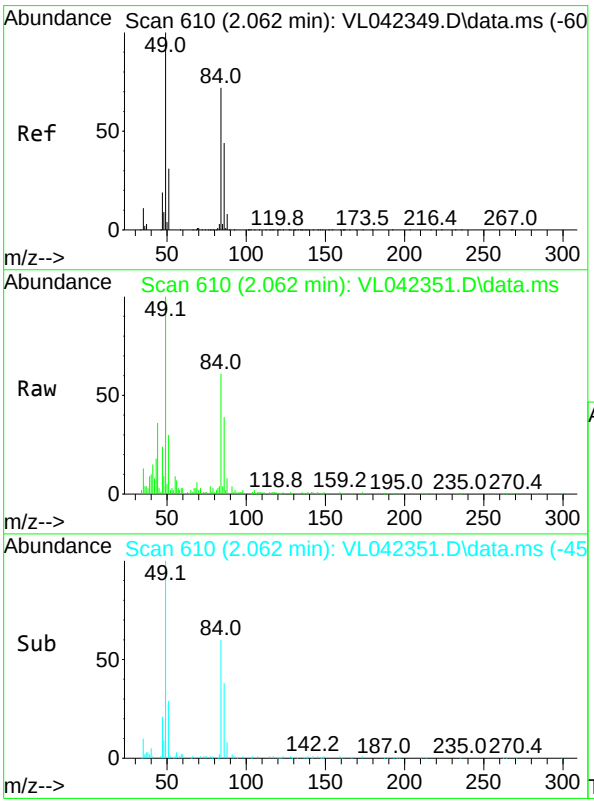
Ion	Ratio	Lower	Upper
45	100		
58	3.8	34.5	51.7

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

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

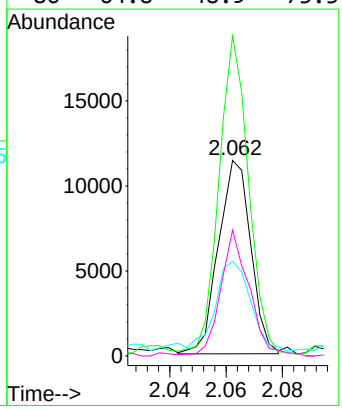


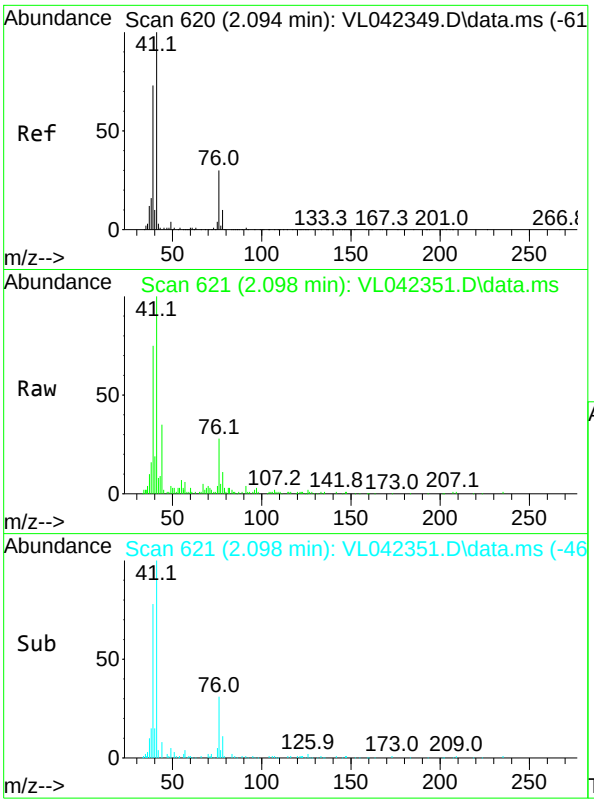


#20
Methylene Chloride
Concen: 1.136 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

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

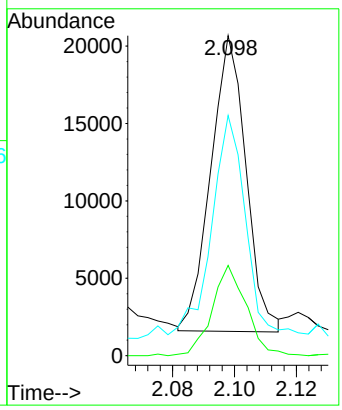




#21
Allyl Chloride
Concen: 1.073 ppbv
RT: 2.098 min Scan# 6
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 41 Resp: 1505

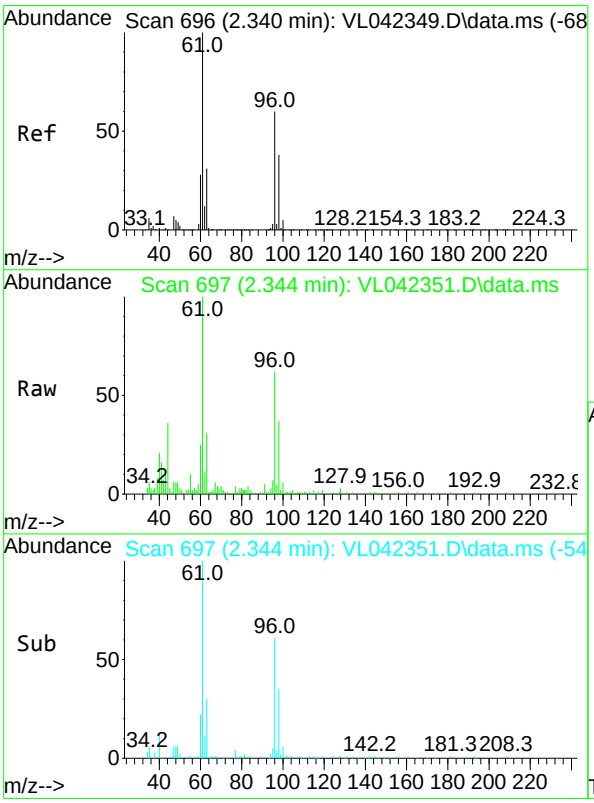
Ion	Ratio	Lower	Upper
41	100		
76	29.8	24.8	37.2
39	86.1	60.6	90.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

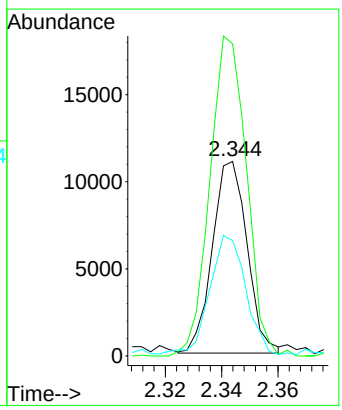
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

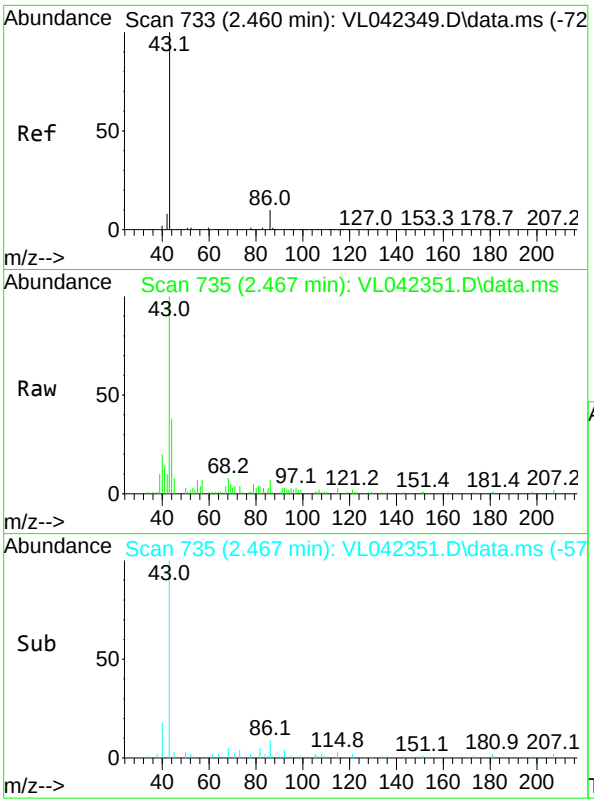


#22
trans-1,2-Dichloroethene
Concen: 1.038 ppbv
RT: 2.344 min Scan# 697
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

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

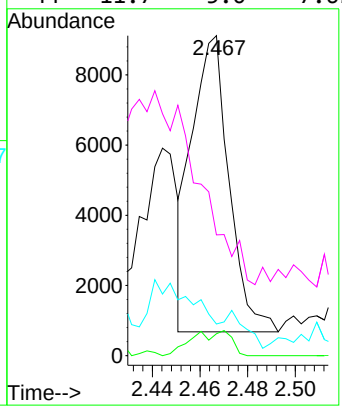




#23
Vinyl Acetate
Concen: 1.122 ppbv
RT: 2.467 min Scan# 7
Delta R.T. 0.007 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 43 Resp: 923

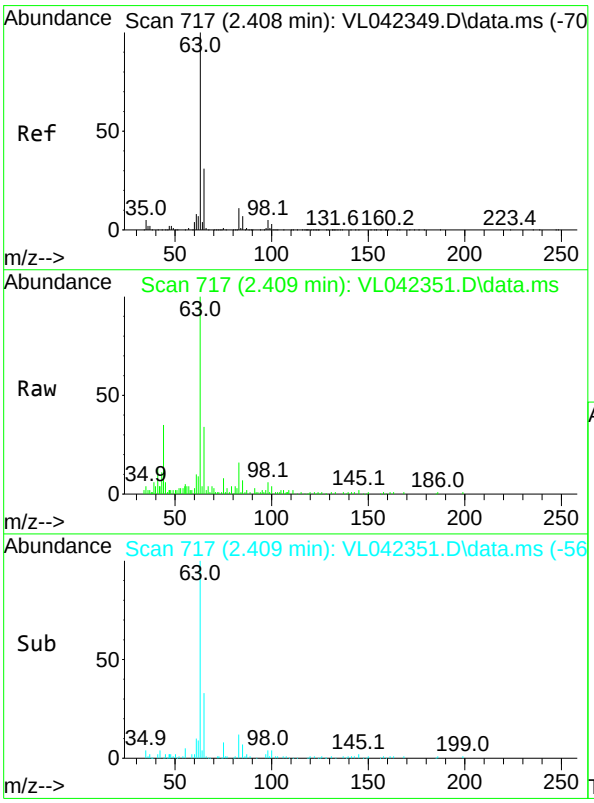
Ion	Ratio	Lower	Upper
43	100		
86	7.4	6.5	9.7
42	4.6	7.8	11.8#
44	11.7	5.0	7.6#



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

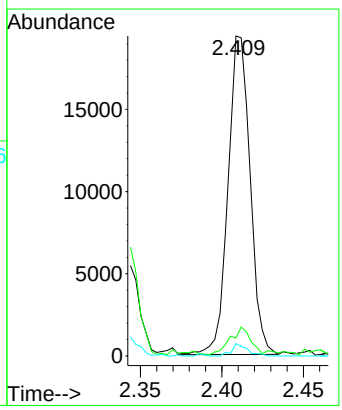
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

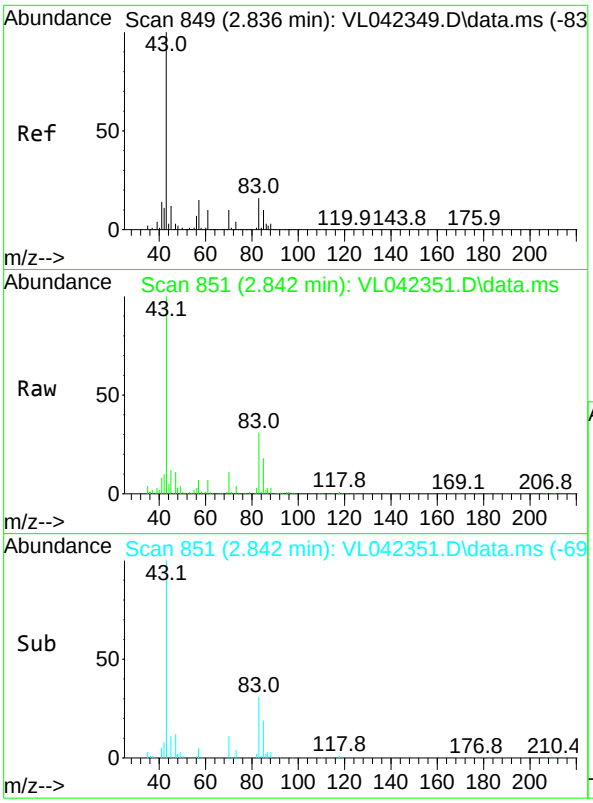


#24
1,1-Dichloroethane
Concen: 1.058 ppbv
RT: 2.409 min Scan# 717
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

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

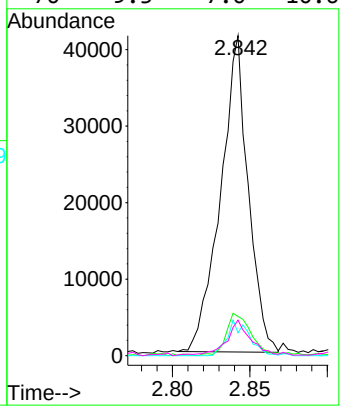




#25
Ethyl Acetate
Concen: 1.027 ppbv
RT: 2.842 min Scan# 8
Delta R.T. 0.007 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 43 Resp: 5149

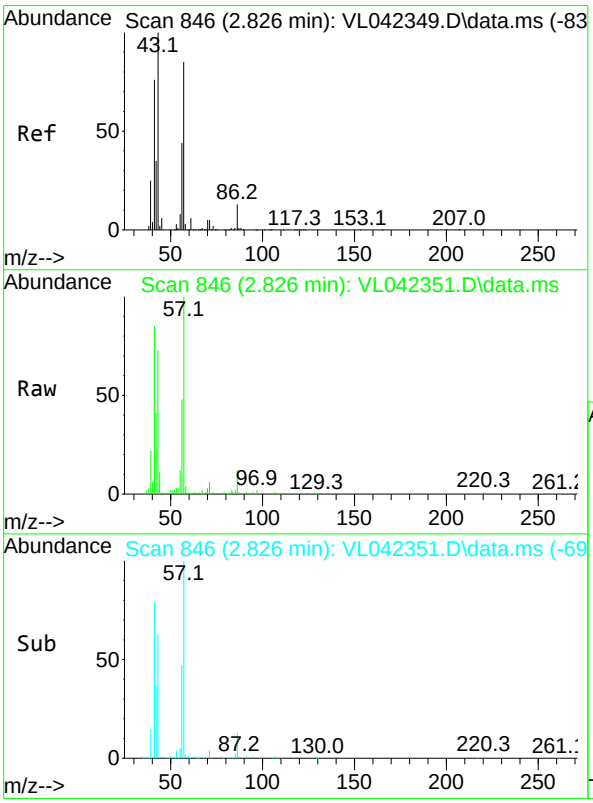
Ion	Ratio	Lower	Upper
43	100		
45	13.1	8.3	12.5
61	9.0	7.3	10.9
70	9.3	7.0	10.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

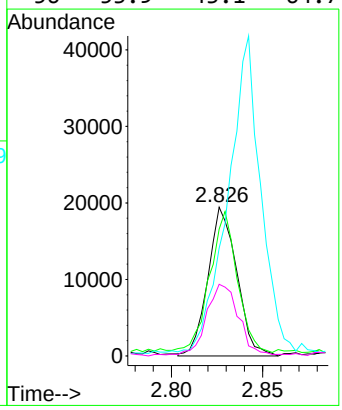
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

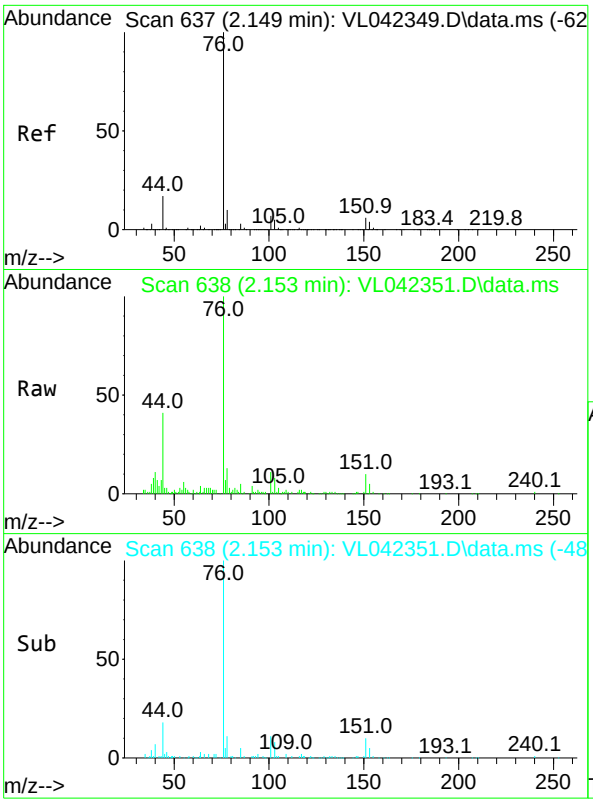


#26
Hexane
Concen: 1.053 ppbv
RT: 2.826 min Scan# 846
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

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

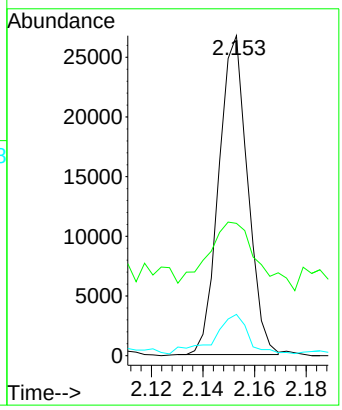




#27
Carbon Disulfide
Concen: 0.955 ppbv
RT: 2.153 min Scan# 6
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 76 Resp: 2073

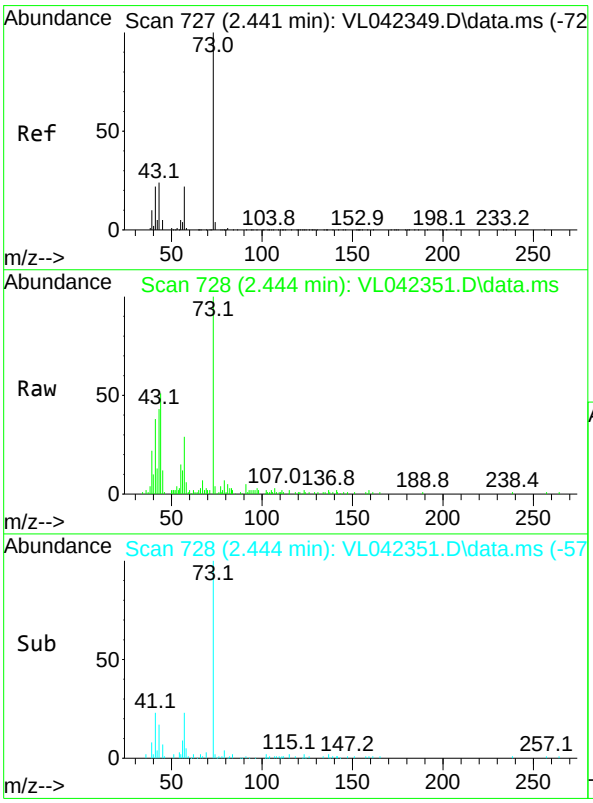
Ion	Ratio	Lower	Upper
76	100		
44	93.1	15.5	23.3#
78	19.8	9.3	13.9#



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

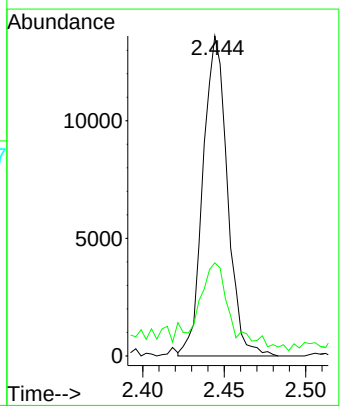
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

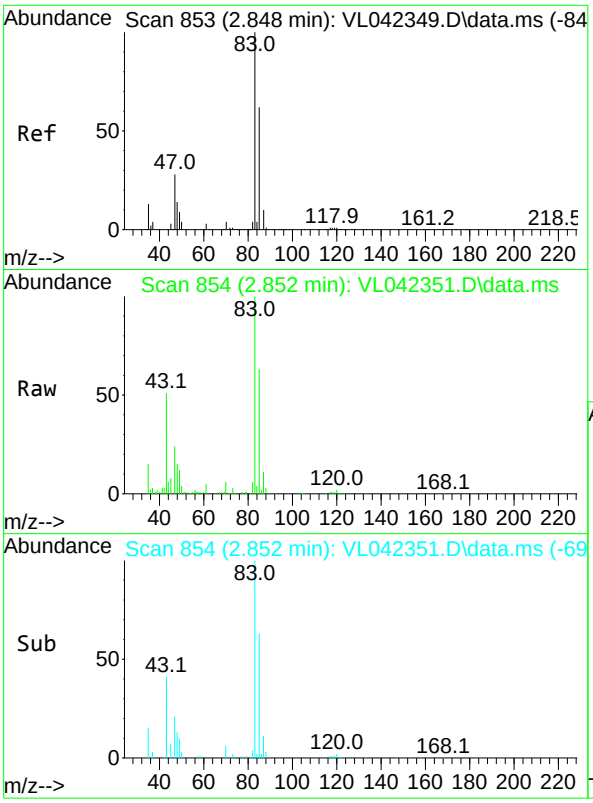


#28
Methyl tert-Butyl Ether
Concen: 1.066 ppbv
RT: 2.444 min Scan# 728
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 73 Resp: 14164

Ion	Ratio	Lower	Upper
73	100		
57	34.2	21.3	31.9#

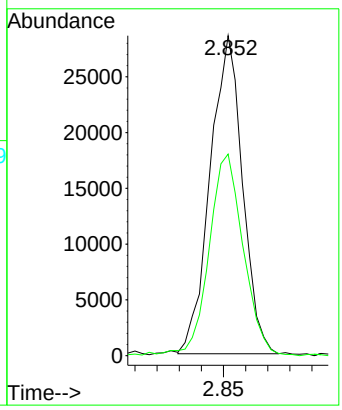




#29
Chloroform
Concen: 1.011 ppbv
RT: 2.852 min Scan# 8
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 83 Resp: 2897

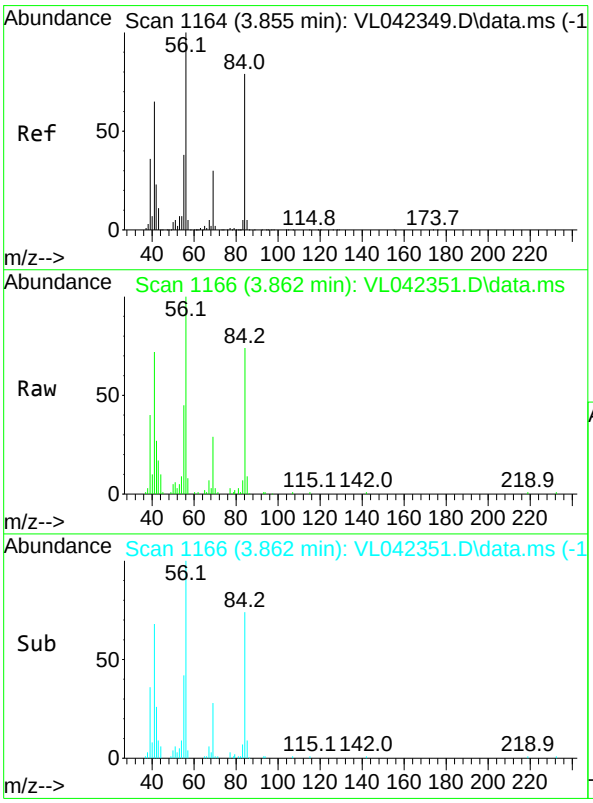
Ion	Ratio	Lower	Upper
83	100		
85	62.6	50.0	75.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

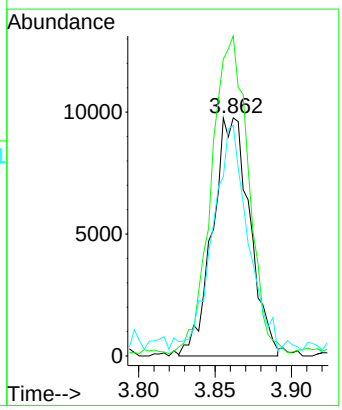
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

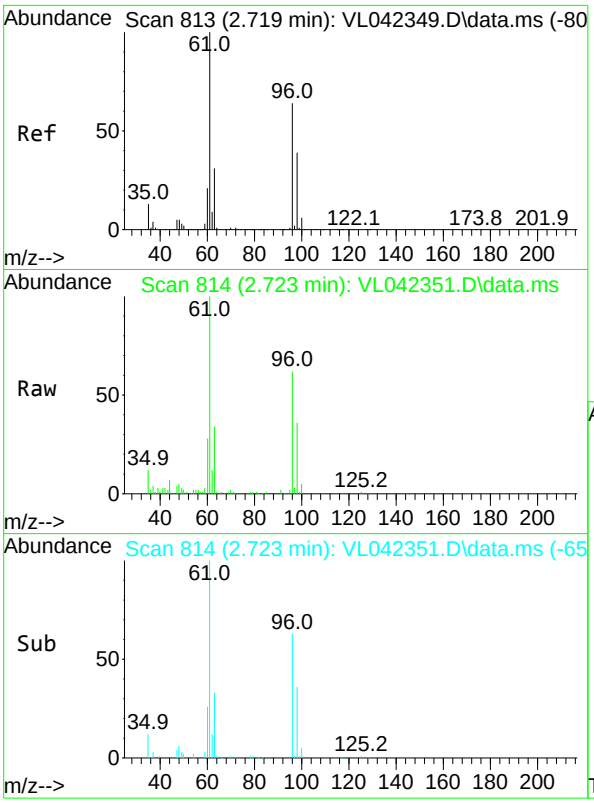


#30
Cyclohexane
Concen: 1.013 ppbv m
RT: 3.862 min Scan# 1166
Delta R.T. 0.007 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

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

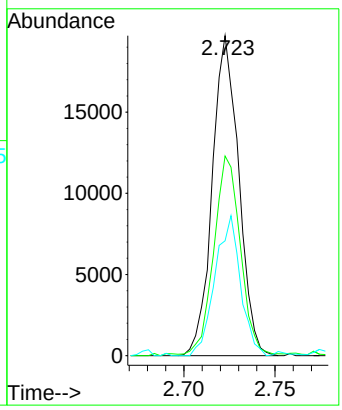




#31
cis-1,2-Dichloroethene
Concen: 1.032 ppbv
RT: 2.723 min Scan# 8
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 61 Resp: 1990

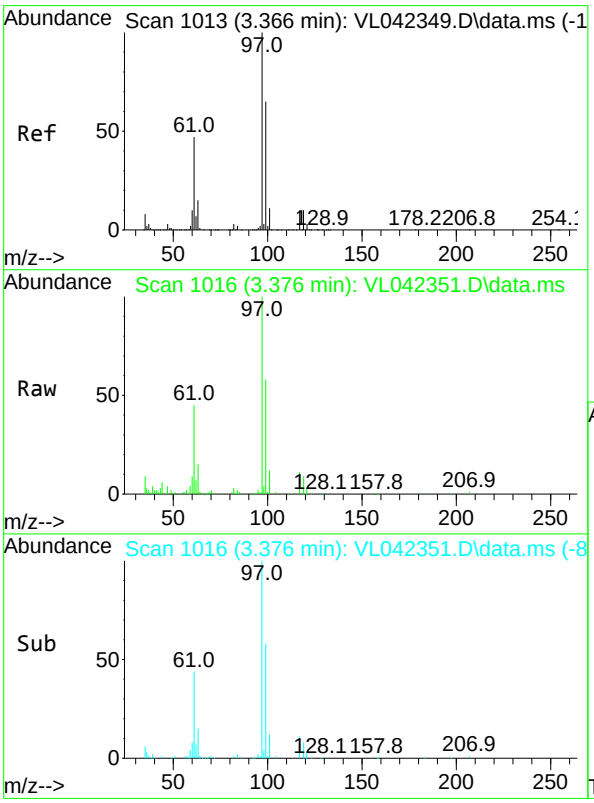
Ion	Ratio	Lower	Upper
61	100		
96	61.9	50.8	76.2
98	35.9	30.9	46.3



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

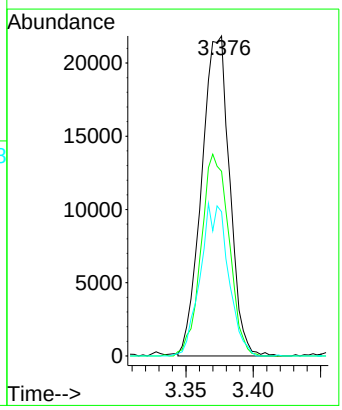
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

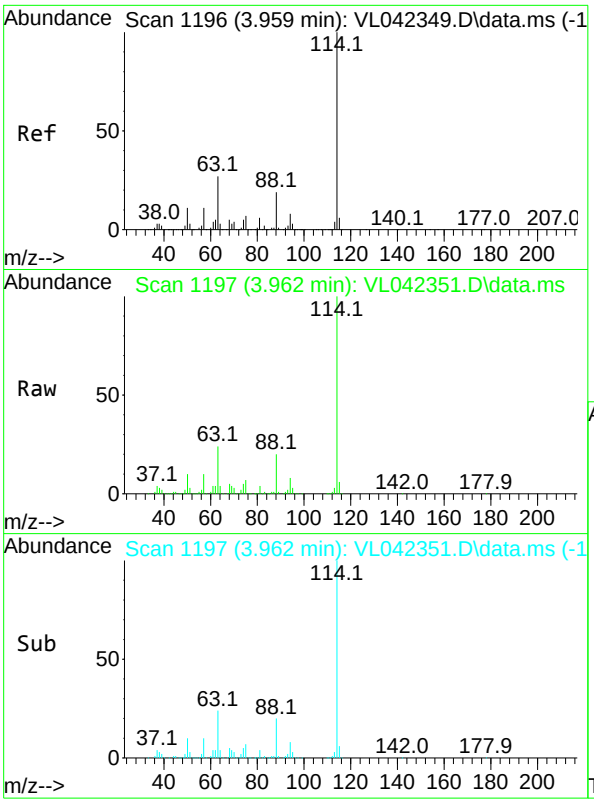


#32
1,1,1-Trichloroethane
Concen: 1.030 ppbv
RT: 3.376 min Scan# 1016
Delta R.T. 0.010 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

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

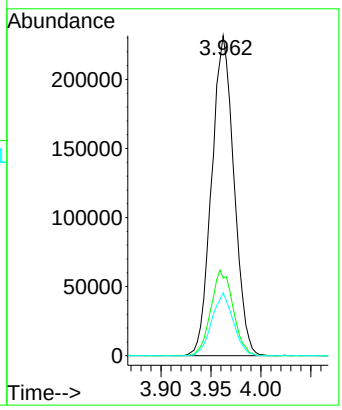




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.962 min Scan# 1
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion:114 Resp: 35990

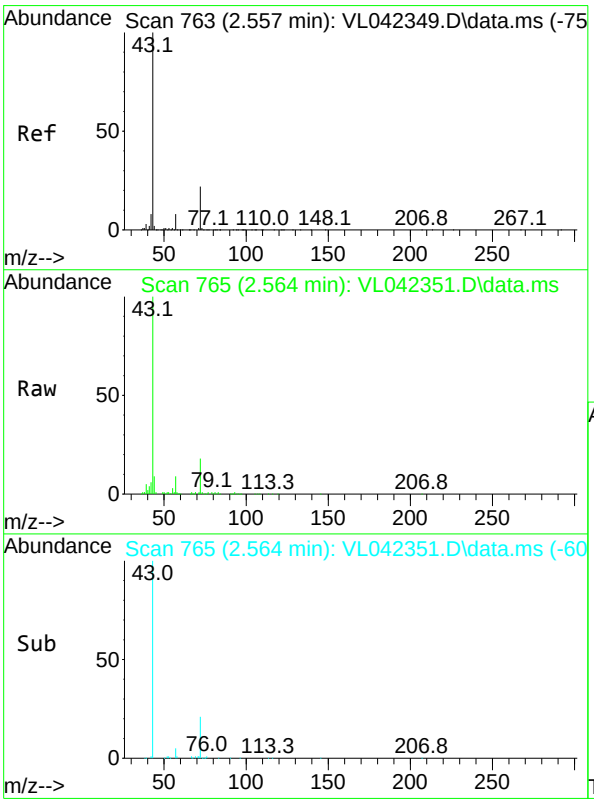
Ion	Ratio	Lower	Upper
114	100		
63	26.7	21.8	32.6
88	18.8	15.5	23.3



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

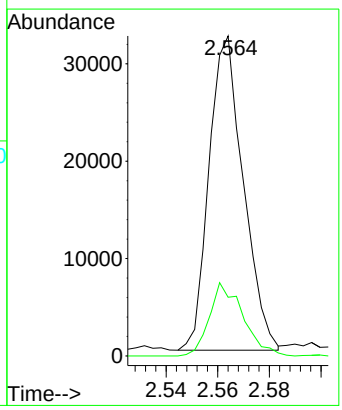
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

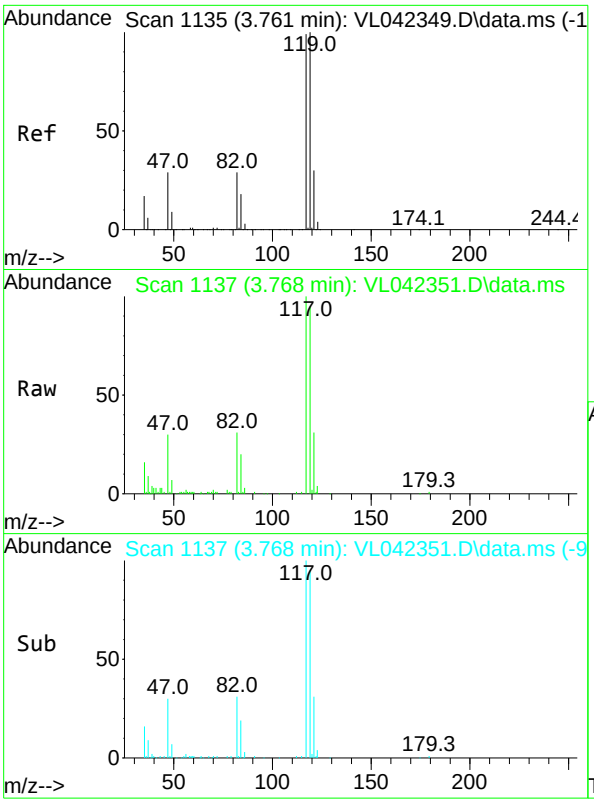


#34
2-Butanone
Concen: 1.045 ppbv
RT: 2.564 min Scan# 765
Delta R.T. 0.007 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 43 Resp: 29735

Ion	Ratio	Lower	Upper
43	100		
72	23.1	18.2	27.2

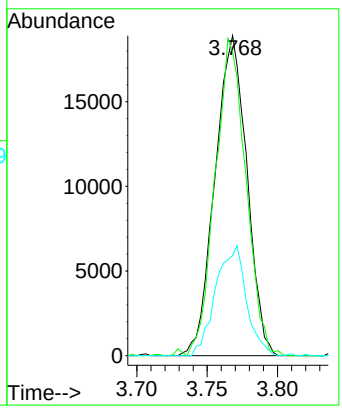




#35
Carbon Tetrachloride
Concen: 0.917 ppbv
RT: 3.768 min Scan# 1
Delta R.T. 0.007 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion:117 Resp: 2987

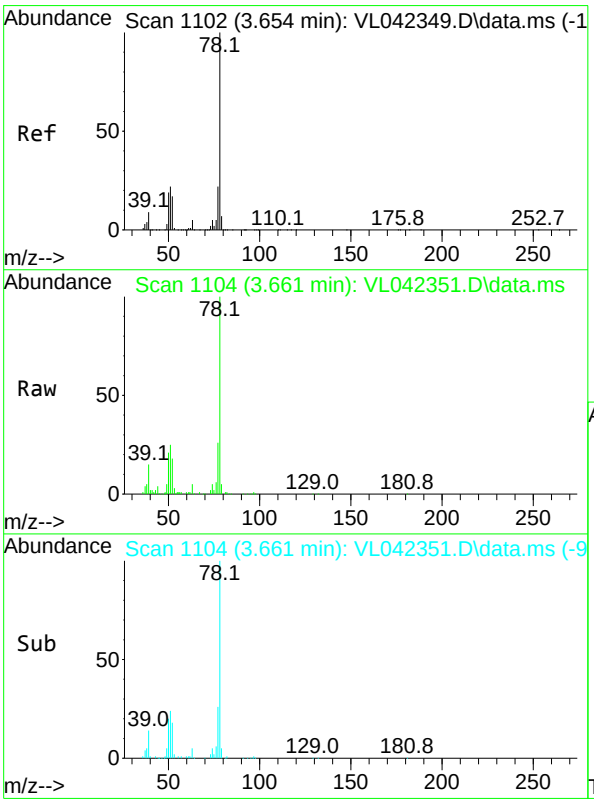
Ion	Ratio	Lower	Upper
117	100		
119	93.3	80.5	120.7
121	31.3	24.2	36.2



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

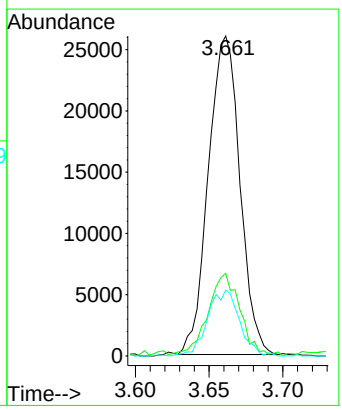
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

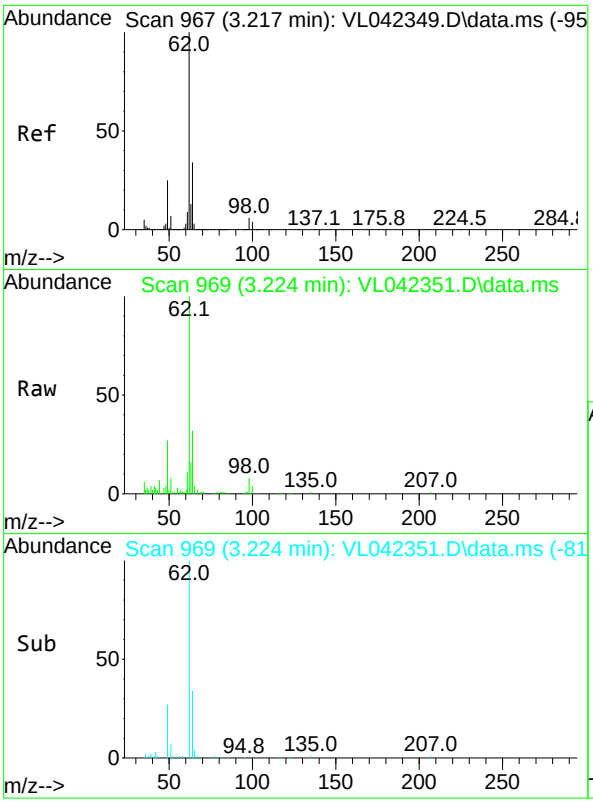


#36
Benzene
Concen: 0.997 ppbv
RT: 3.661 min Scan# 1104
Delta R.T. 0.007 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

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

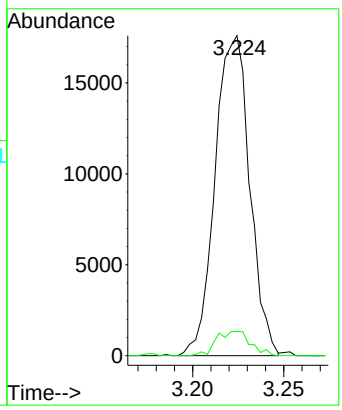




#37
1,2-Dichloroethane
Concen: 0.999 ppbv
RT: 3.224 min Scan# 9
Delta R.T. 0.007 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 62 Resp: 2328

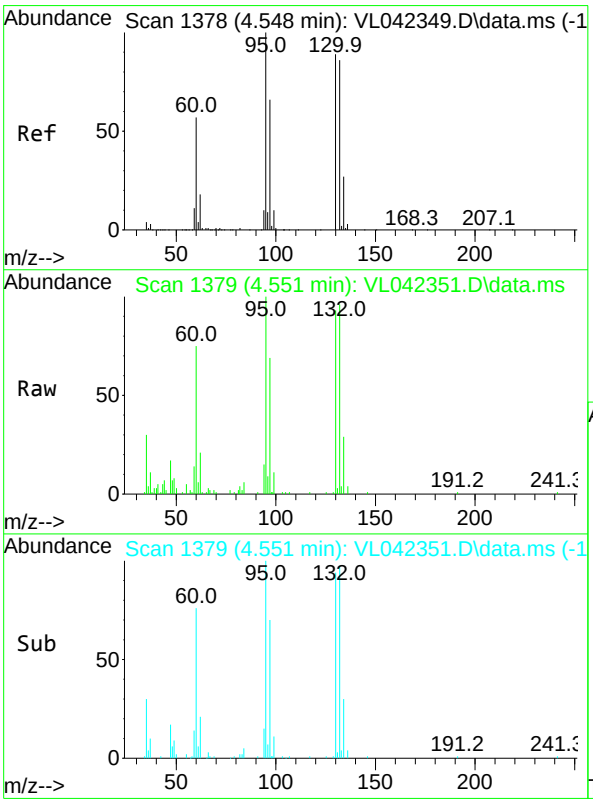
Ion	Ratio	Lower	Upper
62	100		
98	7.5	5.1	7.7



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

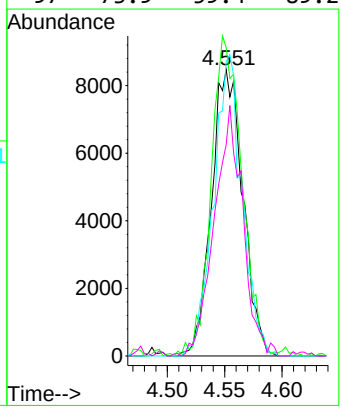
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

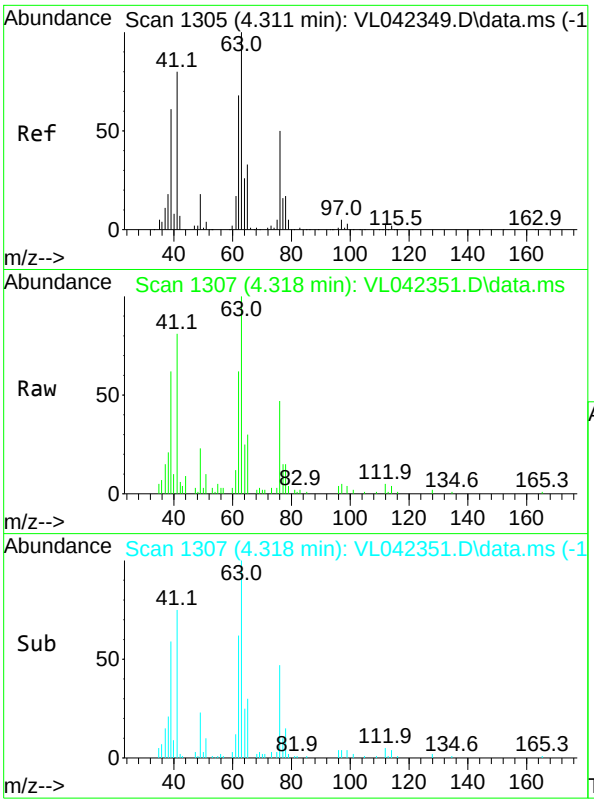


#38
Trichloroethene
Concen: 0.947 ppbv
RT: 4.551 min Scan# 1379
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

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

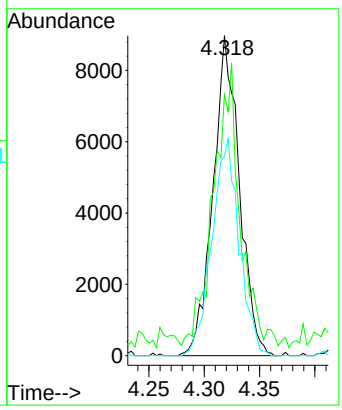




#39
1,2-Dichloropropane
Concen: 1.027 ppbv
RT: 4.318 min Scan# 1
Delta R.T. 0.007 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 63 Resp: 1486

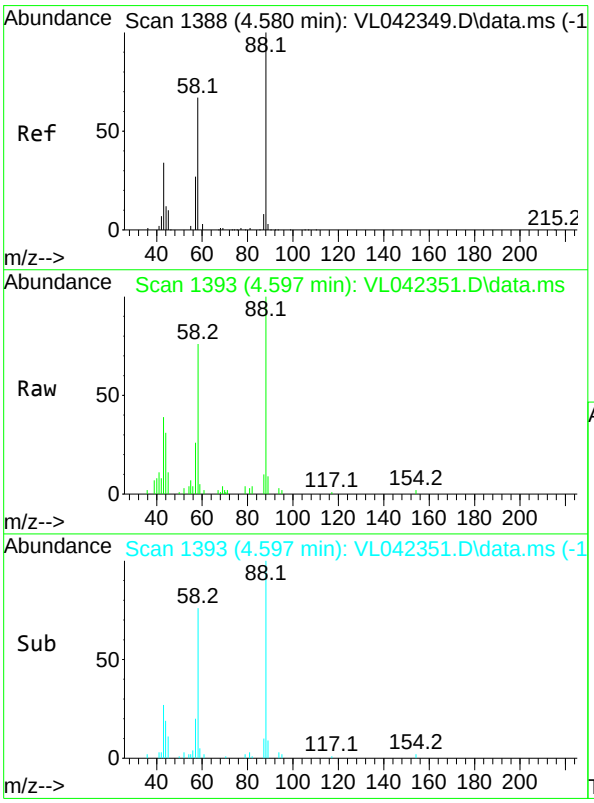
Ion	Ratio	Lower	Upper
63	100		
41	78.3	64.2	96.2
62	62.3	54.3	81.5



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

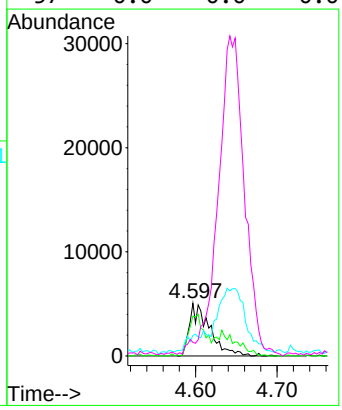
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

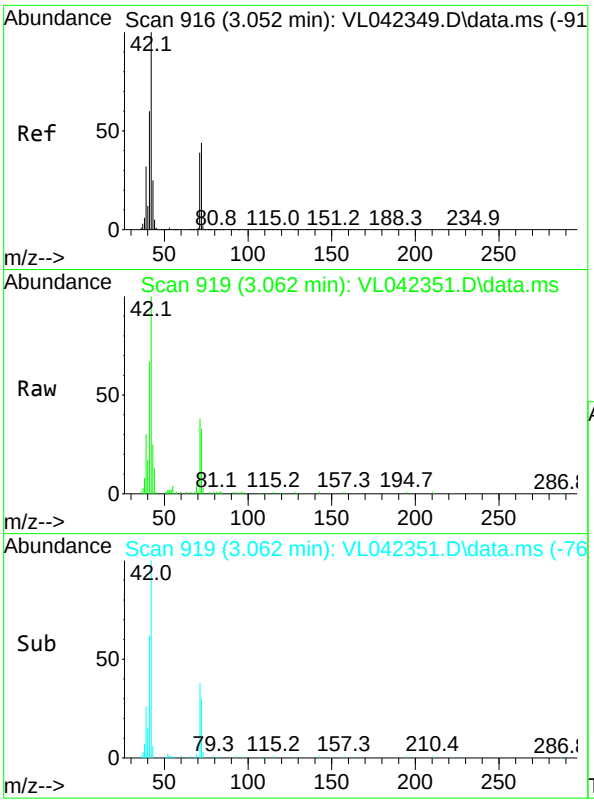


#40
1,4-Dioxane
Concen: 1.114 ppbv m
RT: 4.597 min Scan# 1393
Delta R.T. 0.017 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

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

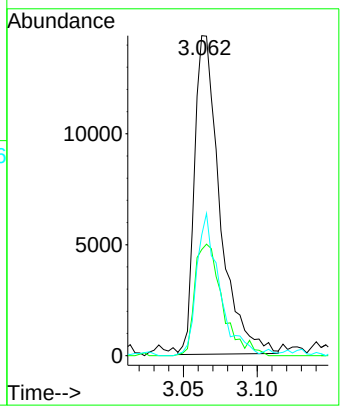




#41
Tetrahydrofuran
Concen: 1.049 ppbv
RT: 3.062 min Scan# 9
Delta R.T. 0.010 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 42 Resp: 1725

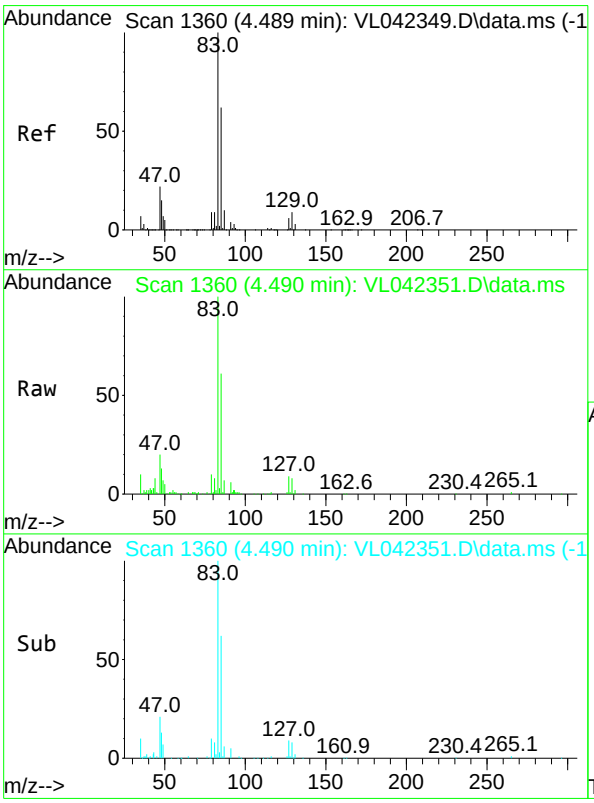
Ion	Ratio	Lower	Upper
42	100		
72	38.1	32.3	48.5
71	42.3	31.4	47.2



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

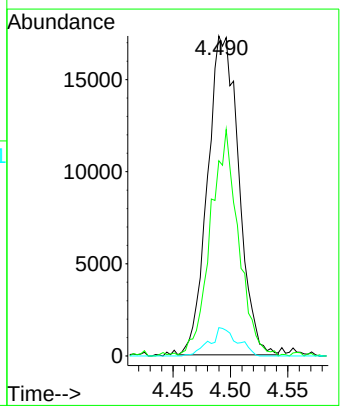
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

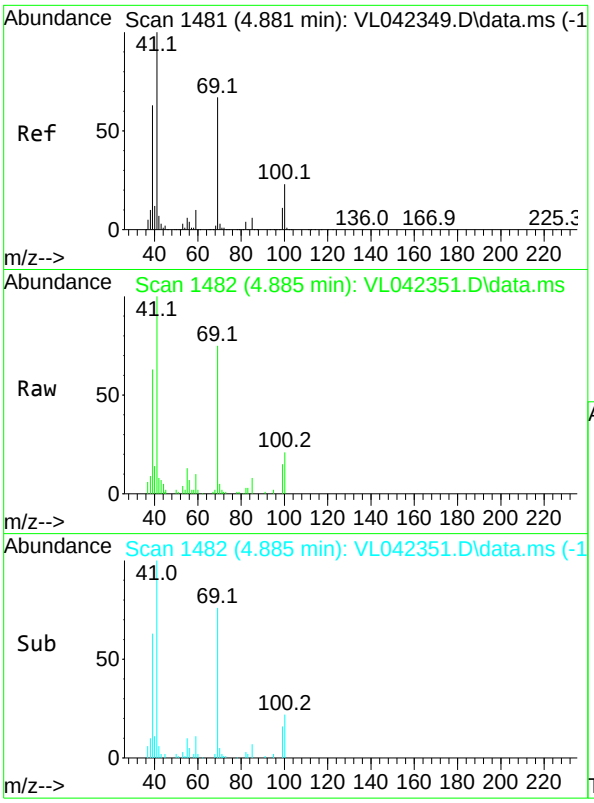


#42
Bromodichloromethane
Concen: 1.009 ppbv
RT: 4.490 min Scan# 1360
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

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

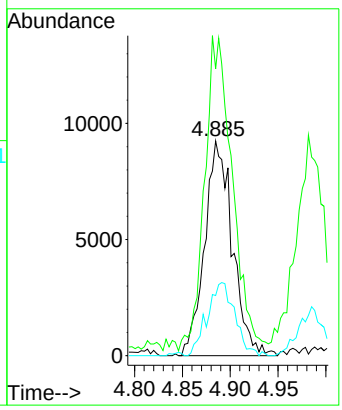
Tgt Ion: 69 Resp: 1869

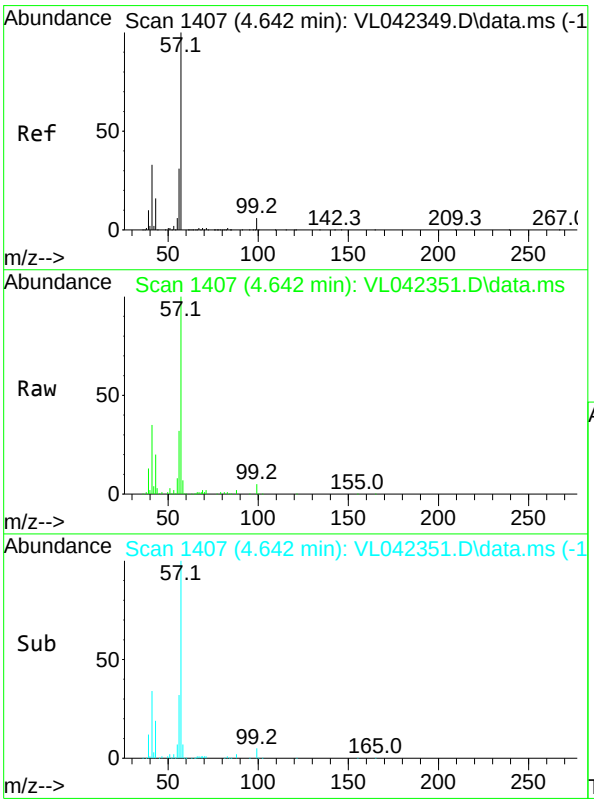
Ion	Ratio	Lower	Upper
69	100		
41	149.3	118.6	177.8
100	0.0	28.2	42.2#

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

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

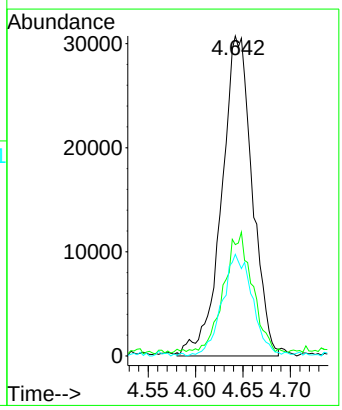


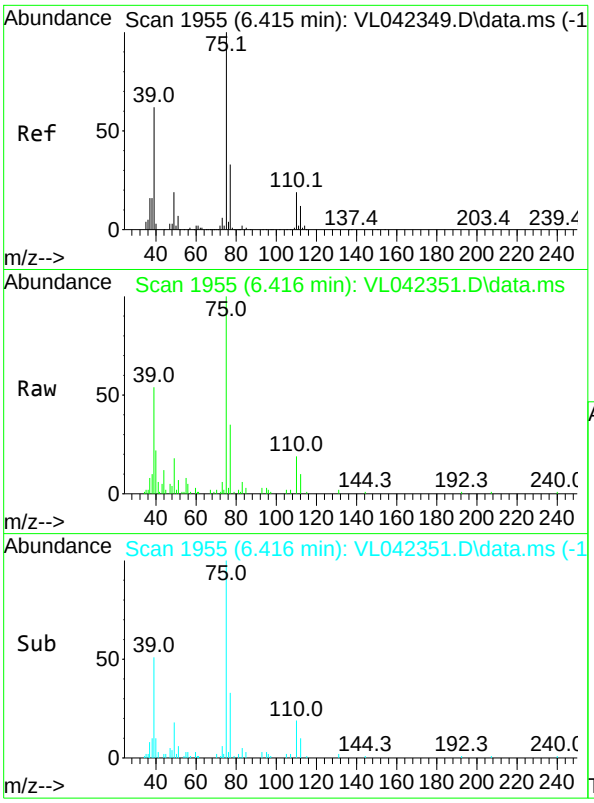


#44
2,2,4-Trimethylpentane
Concen: 1.027 ppbv m
RT: 4.642 min Scan# 1407
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

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#

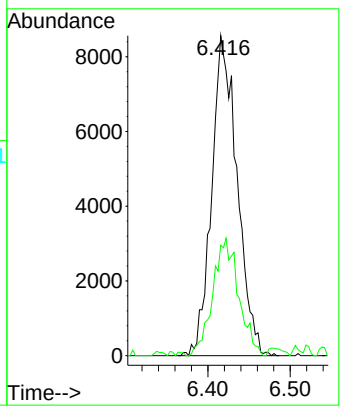




#45
t-1,3-Dichloropropene
Concen: 1.026 ppbv m
RT: 6.416 min Scan# 1
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 75 Resp: 1834

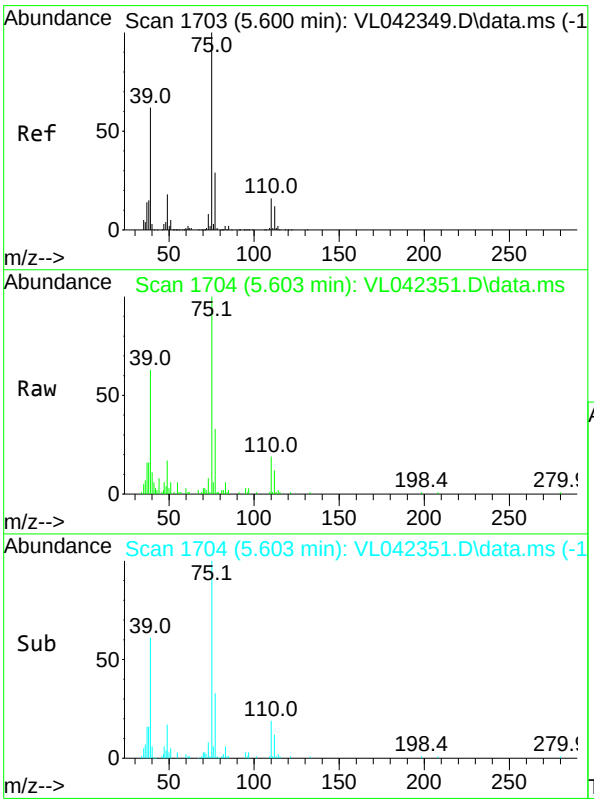
Ion	Ratio	Lower	Upper
75	100		
77	34.5	27.0	40.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

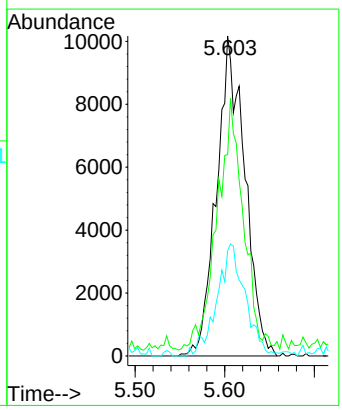
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

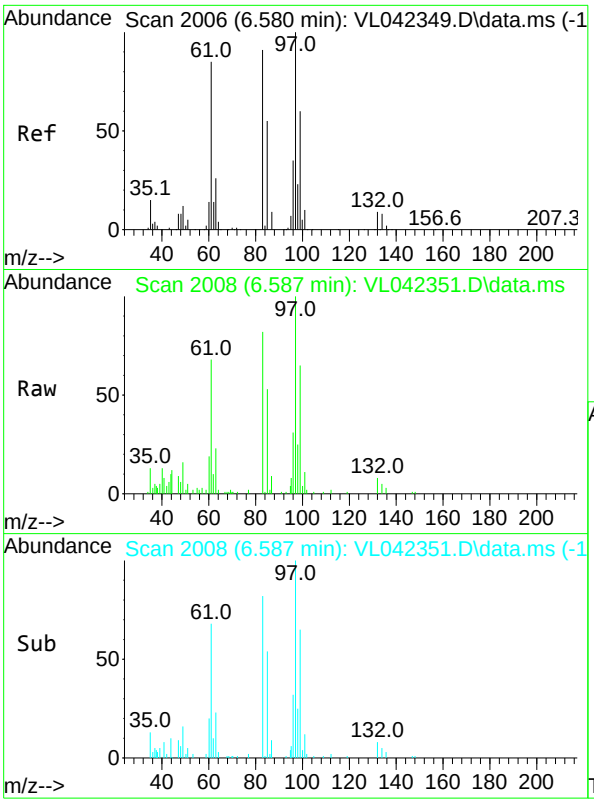


#46
cis-1,3-Dichloropropene
Concen: 1.015 ppbv m
RT: 5.603 min Scan# 1704
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

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

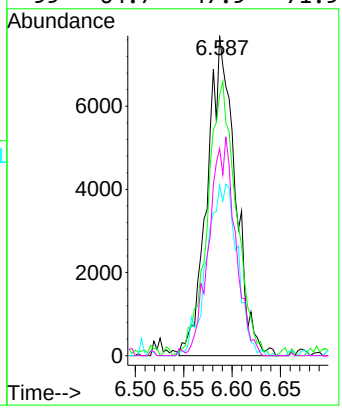




#47
1,1,2-Trichloroethane
Concen: 1.048 ppbv m
RT: 6.587 min Scan# 2
Delta R.T. 0.007 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 97 Resp: 1545

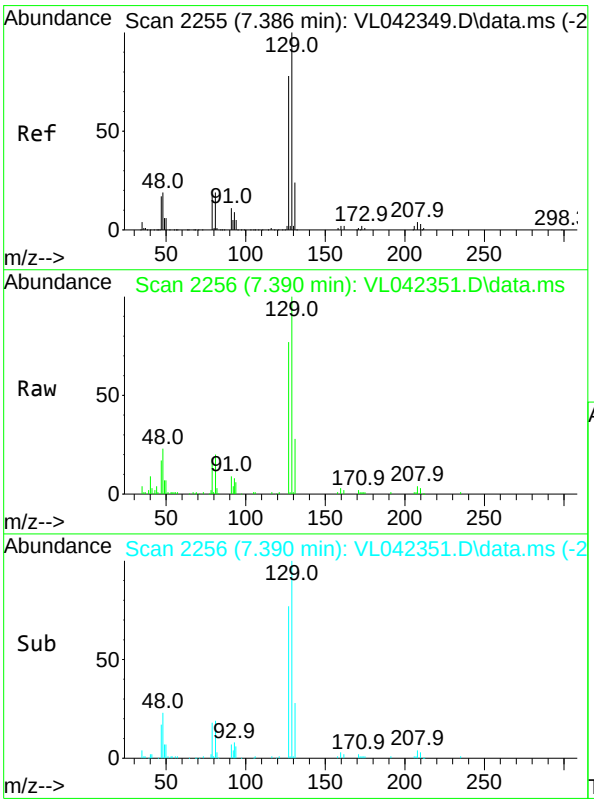
Ion	Ratio	Lower	Upper
97	100		
83	81.5	72.8	109.2
85	53.2	44.2	66.4
99	64.7	47.9	71.9



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

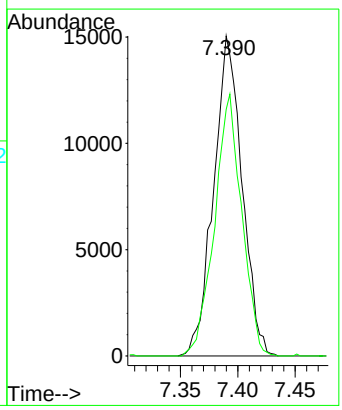
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

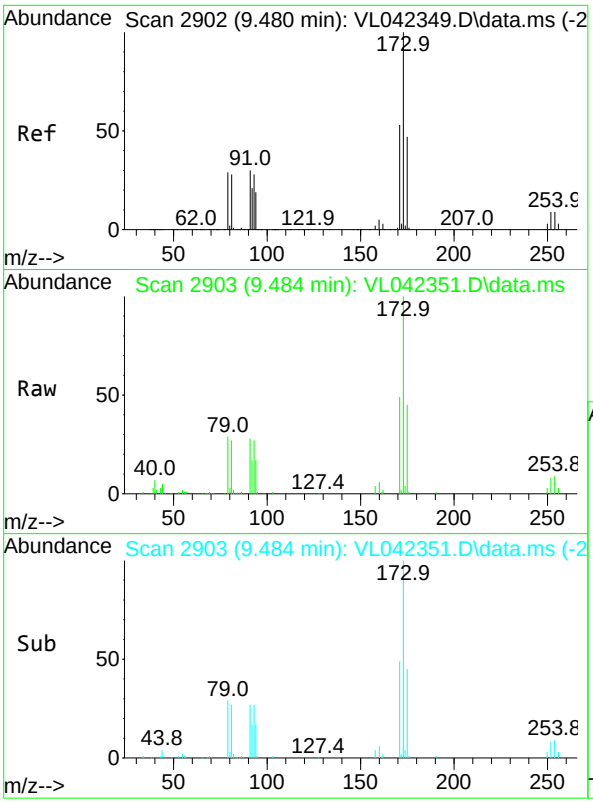


#48
Dibromochloromethane
Concen: 0.997 ppbv
RT: 7.390 min Scan# 2256
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion:129 Resp: 25948

Ion	Ratio	Lower	Upper
129	100		
127	78.4	39.1	117.3

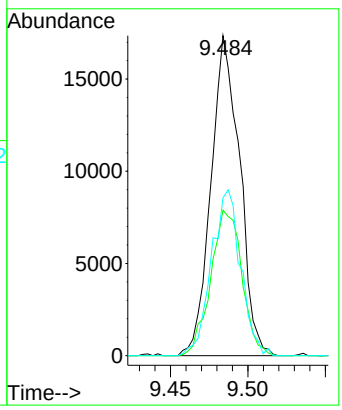




#49
Bromoform
Concen: 0.984 ppbv
RT: 9.484 min Scan# 2
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion:173 Resp: 2241

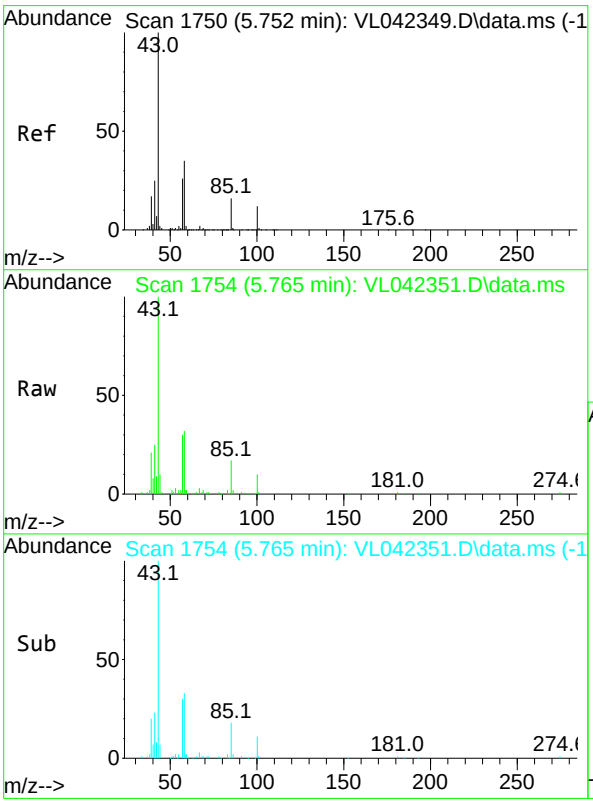
Ion	Ratio	Lower	Upper
173	100		
175	49.3	38.2	57.2
171	52.7	40.9	61.3



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

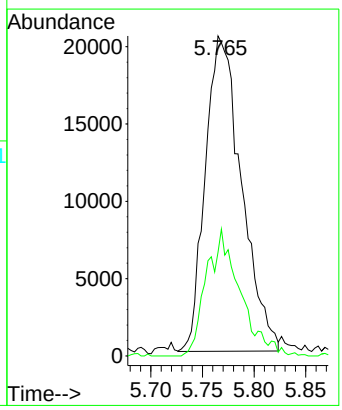
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

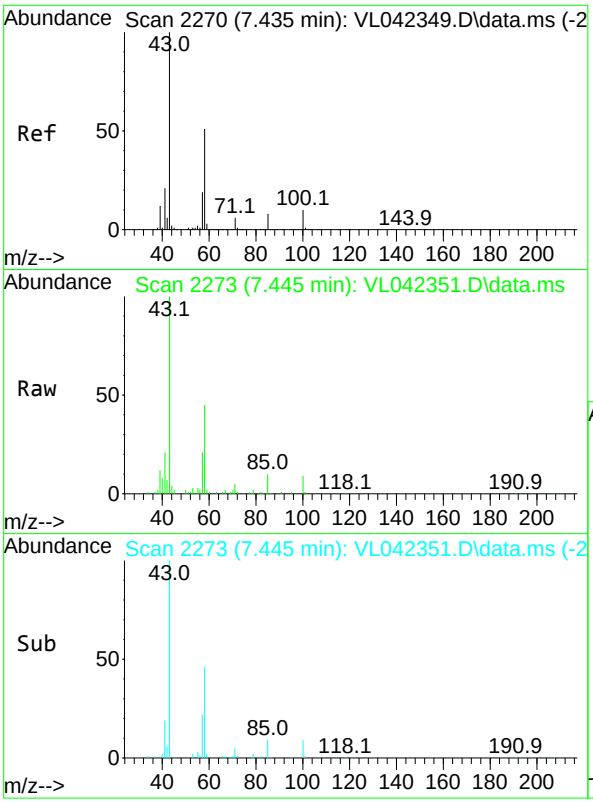


#50
4-Methyl-2-Pentanone
Concen: 1.049 ppbv
RT: 5.765 min Scan# 1754
Delta R.T. 0.013 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 43 Resp: 49725

Ion	Ratio	Lower	Upper
43	100		
58	37.7	28.6	43.0

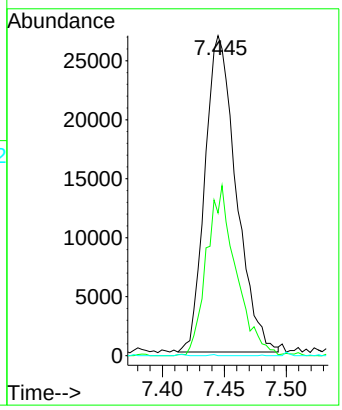




#51
2-Hexanone
Concen: 1.103 ppbv
RT: 7.445 min Scan# 2
Delta R.T. 0.010 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 43 Resp: 4717

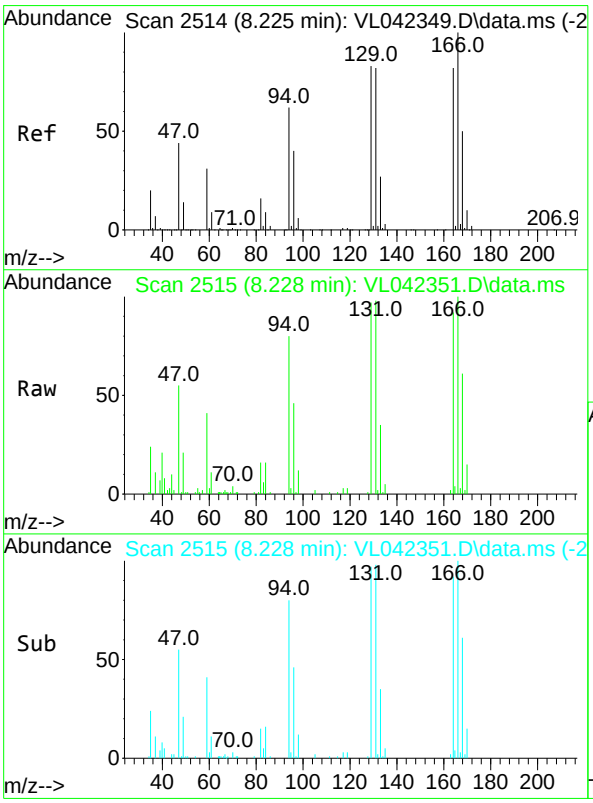
Ion	Ratio	Lower	Upper
43	100		
58	50.8	40.2	60.4
98	0.1	0.1	0.1



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

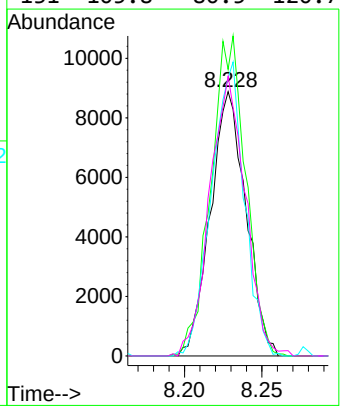
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

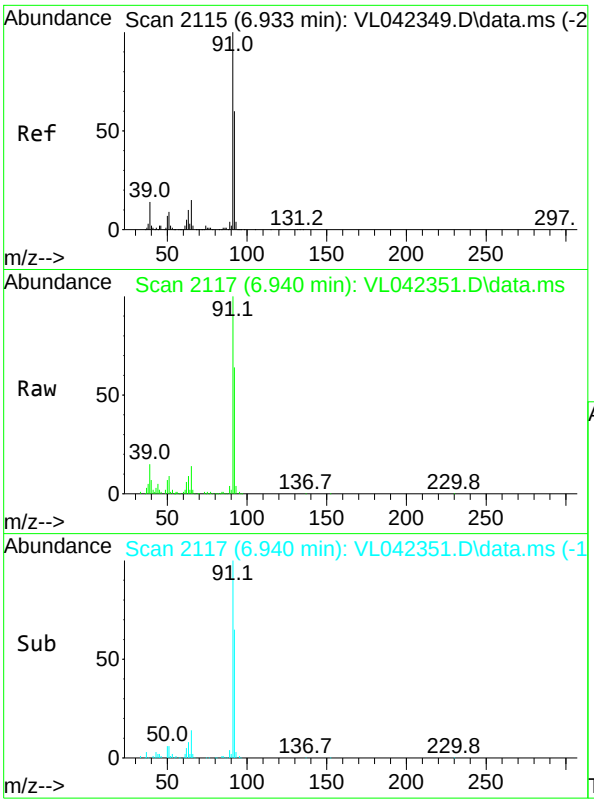


#52
Tetrachloroethene
Concen: 0.943 ppbv
RT: 8.228 min Scan# 2515
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

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

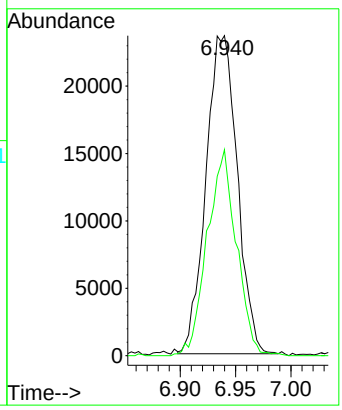




#53
Toluene
Concen: 1.001 ppbv
RT: 6.940 min Scan# 21
Delta R.T. 0.007 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 91 Resp: 4661

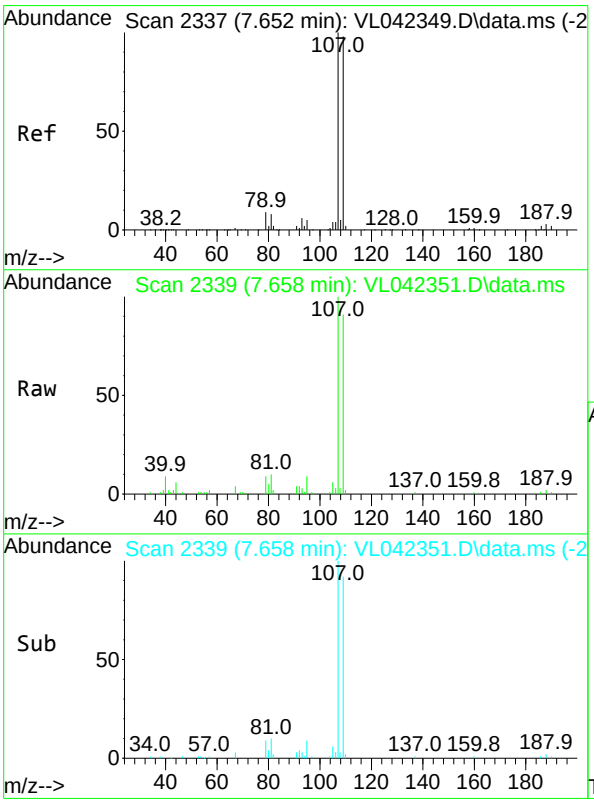
Ion	Ratio	Lower	Upper
91	100		
92	60.4	48.2	72.4



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

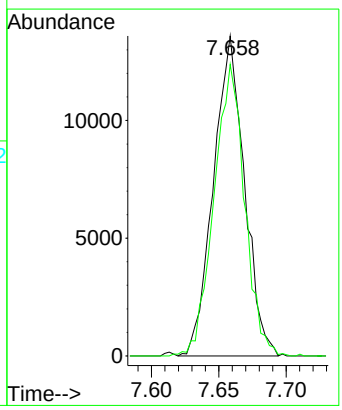
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

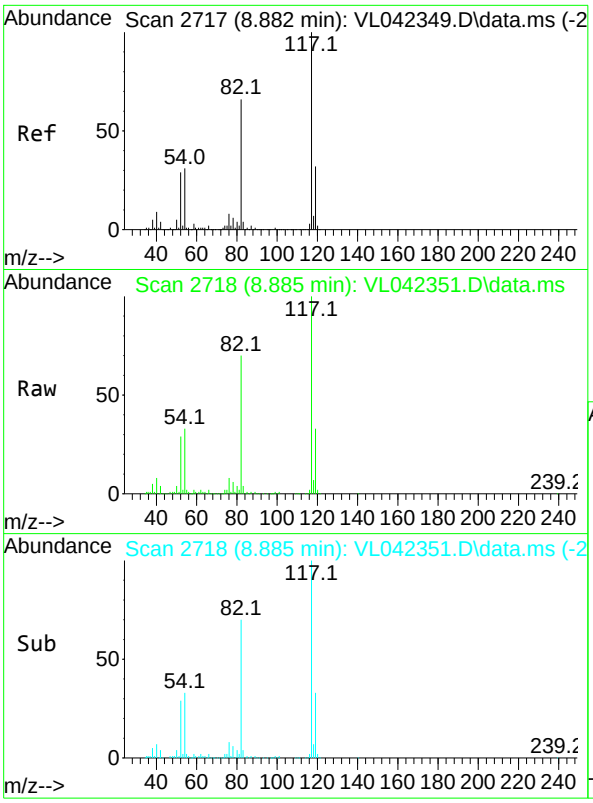


#54
1,2-Dibromoethane
Concen: 1.036 ppbv
RT: 7.658 min Scan# 2339
Delta R.T. 0.007 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion:107 Resp: 21780

Ion	Ratio	Lower	Upper
107	100		
109	90.7	78.2	117.4

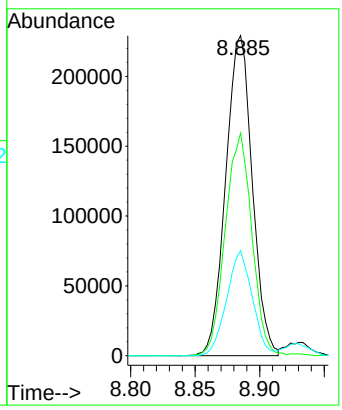




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.885 min Scan# 2
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion:117 Resp: 32909

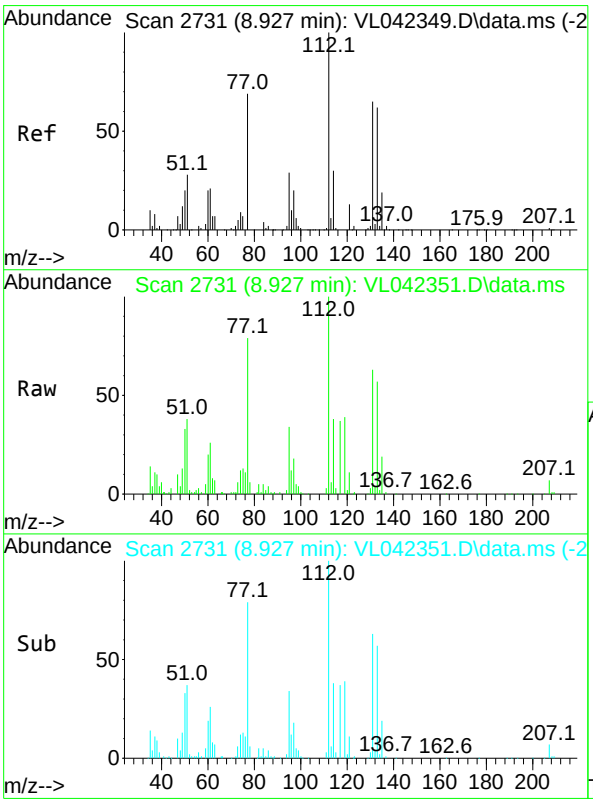
Ion	Ratio	Lower	Upper
117	100		
82	69.7	57.8	86.6
119	31.8	25.2	37.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

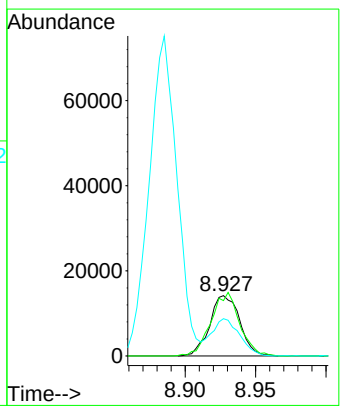
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

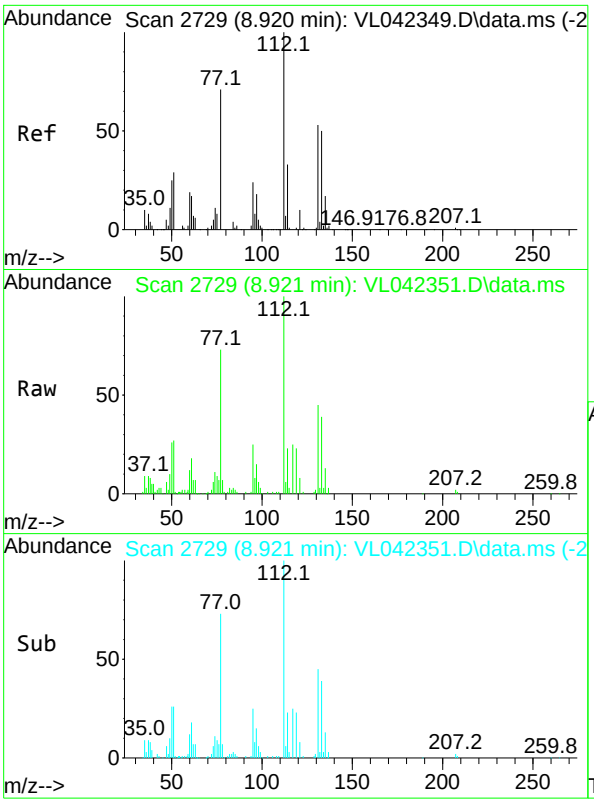


#56
1,1,1,2-Tetrachloroethane
Concen: 1.057 ppbv
RT: 8.927 min Scan# 2731
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

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

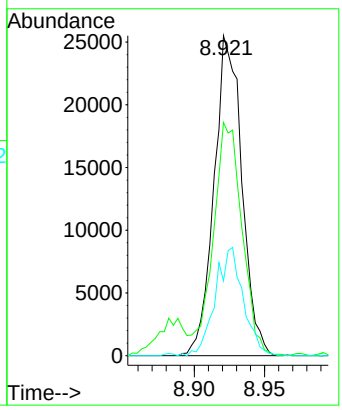




#57
Chlorobenzene
Concen: 1.026 ppbv
RT: 8.921 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion:112 Resp: 3511

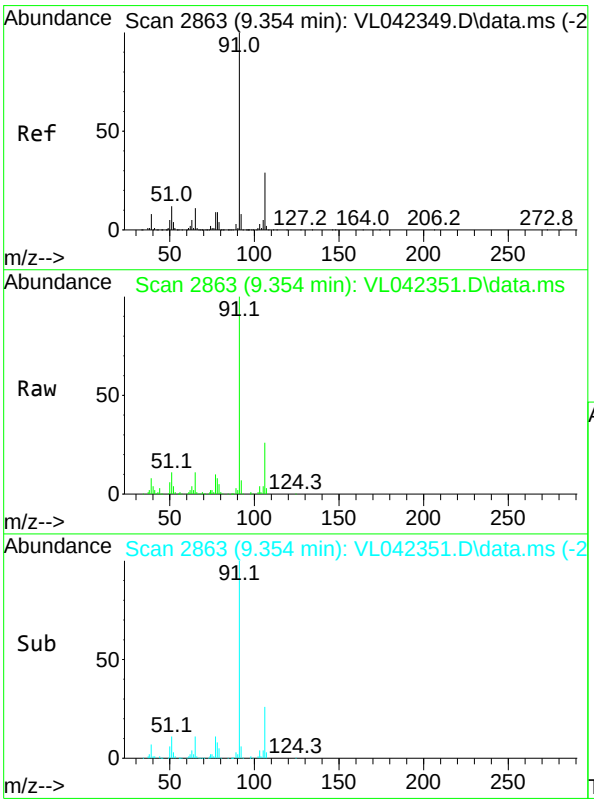
Ion	Ratio	Lower	Upper
112	100		
77	72.4	57.8	86.6
114	23.3	29.3	35.9#



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

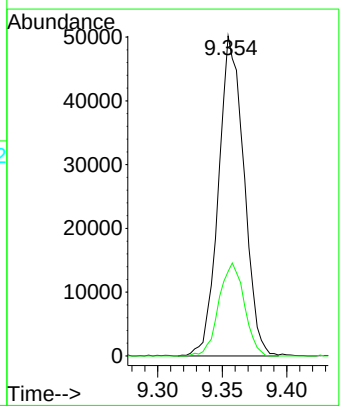
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

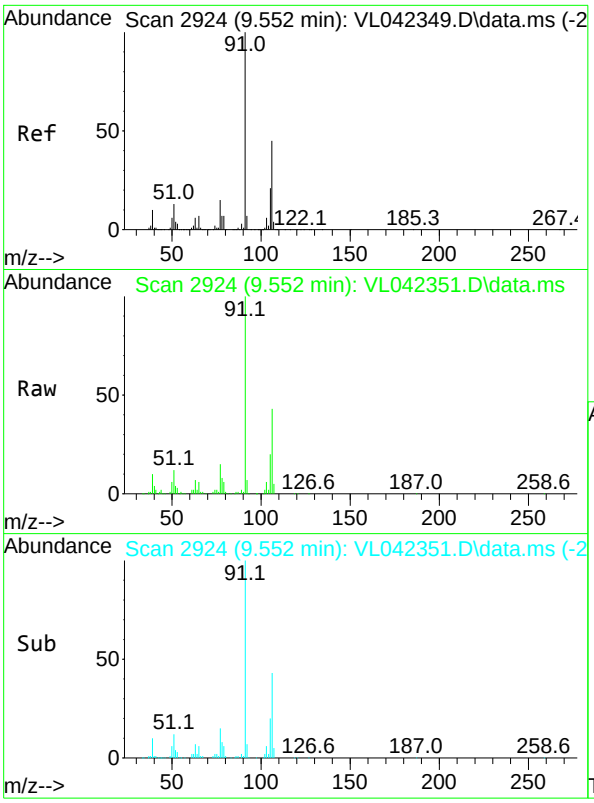


#58
Ethyl Benzene
Concen: 1.054 ppbv
RT: 9.354 min Scan# 2863
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

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

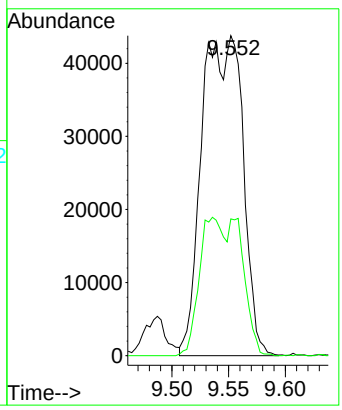
Tgt Ion: 91 Resp: 11070

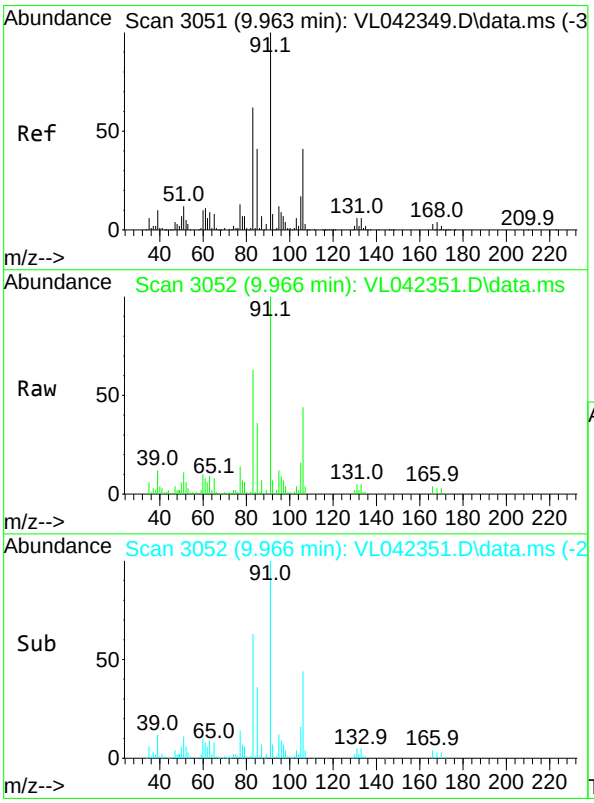
Ion	Ratio	Lower	Upper
91	100		
106	0.0	35.4	53.2

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

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

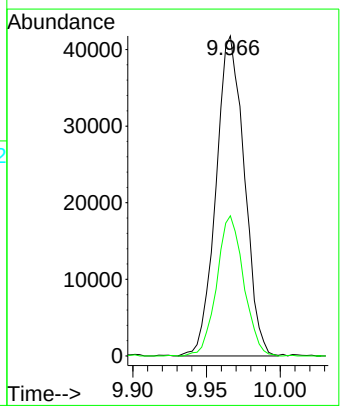


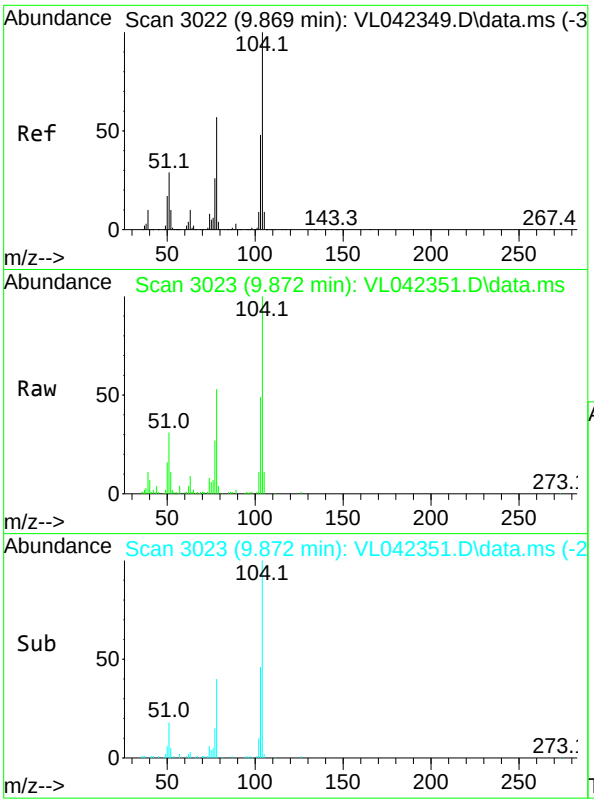


#60
o-Xylene
Concen: 1.056 ppbv
RT: 9.966 min Scan# 3052
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 91 Resp: 55831

Ion	Ratio	Lower	Upper
91	100		
106	41.6	21.1	63.4

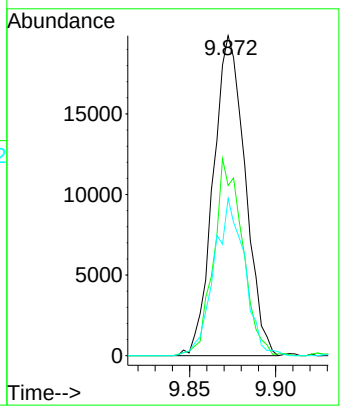




#61
Styrene
Concen: 1.012 ppbv
RT: 9.872 min Scan# 3
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion:104 Resp: 2554

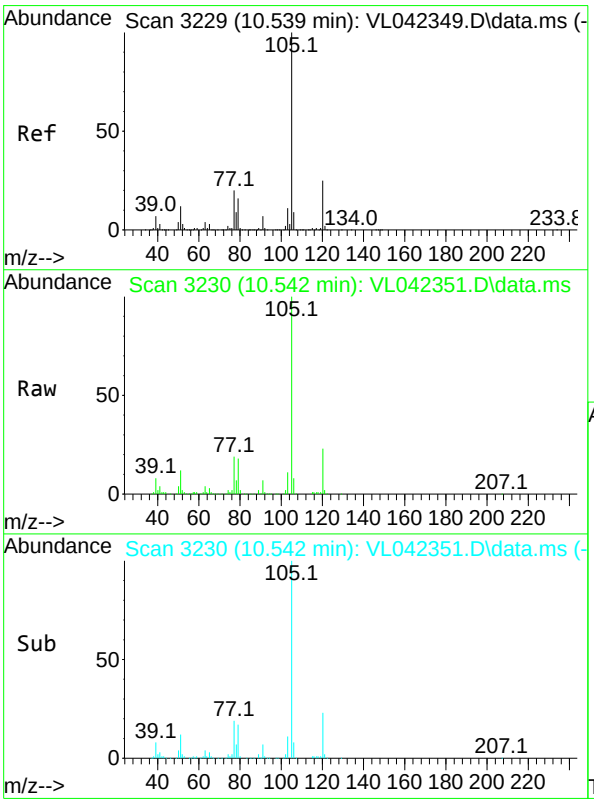
Ion	Ratio	Lower	Upper
104	100		
78	55.7	44.6	66.8
103	47.2	37.4	56.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

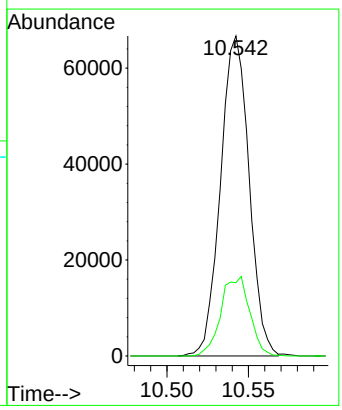
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

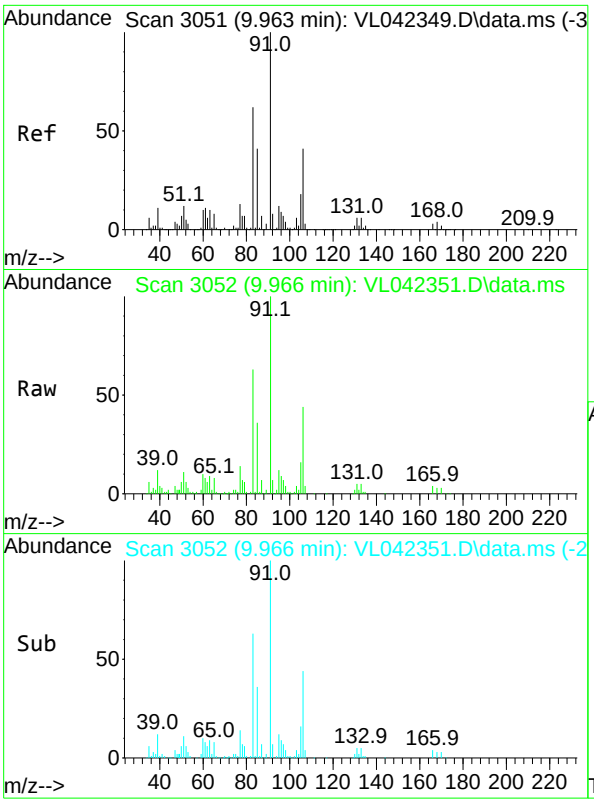


#62
Isopropylbenzene
Concen: 1.047 ppbv
RT: 10.542 min Scan# 3230
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion:105 Resp: 81286

Ion	Ratio	Lower	Upper
105	100		
120	25.0	19.8	29.8

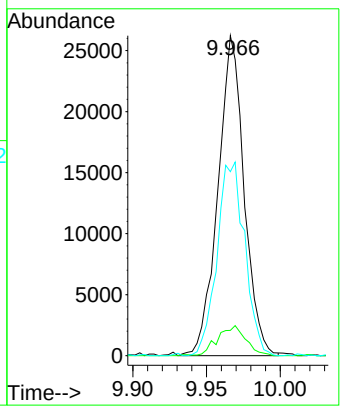




#63
1,1,2,2-Tetrachloroethane
Concen: 0.943 ppbv
RT: 9.966 min Scan# 3
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 83 Resp: 3241

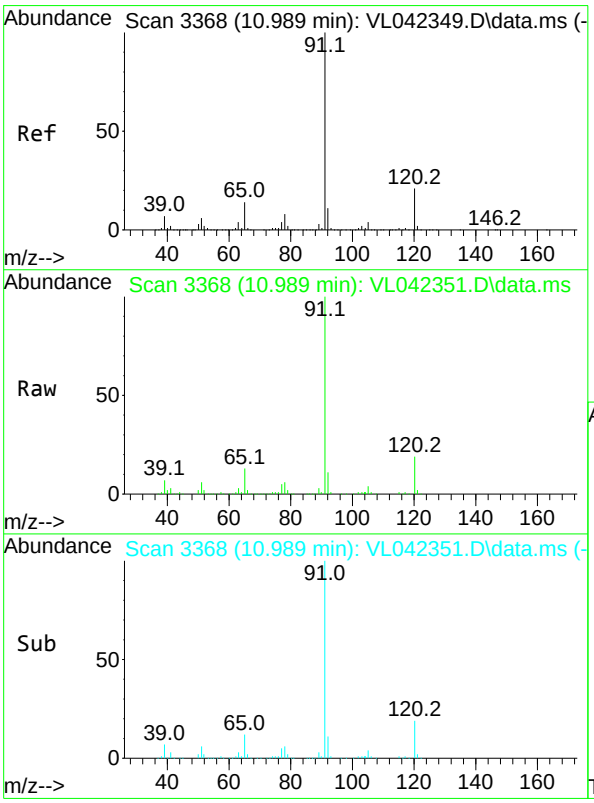
Ion	Ratio	Lower	Upper
83	100		
131	10.2	4.5	13.7
85	64.4	32.4	97.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

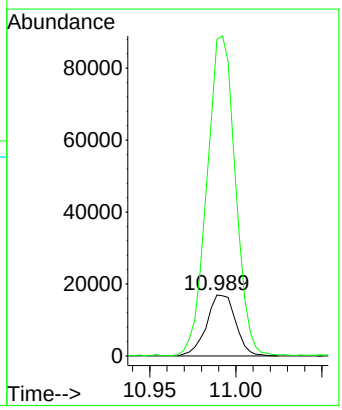
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

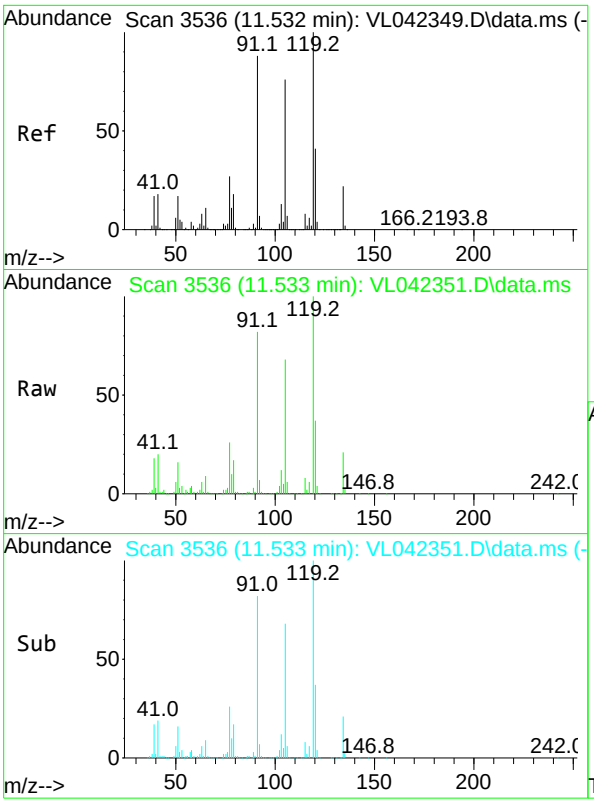


#64
n-propylbenzene
Concen: 1.019 ppbv
RT: 10.989 min Scan# 3368
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion:120 Resp: 19898

Ion	Ratio	Lower	Upper
120	100		
91	517.6	392.4	588.6

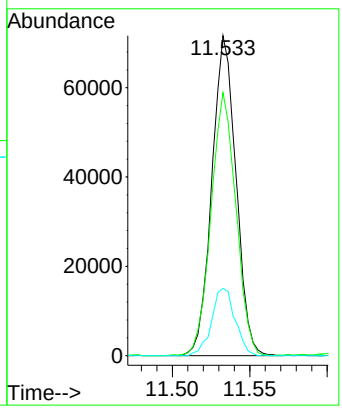




#65
tert-Butylbenzene
Concen: 1.087 ppbv
RT: 11.533 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion:119 Resp: 7759

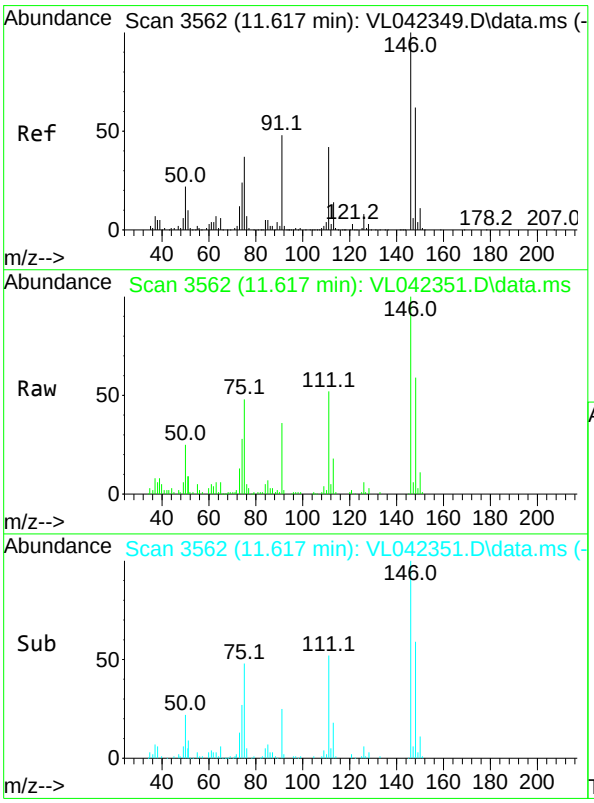
Ion	Ratio	Lower	Upper
119	100		
91	85.0	74.6	111.8
134	20.5	18.8	28.2



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

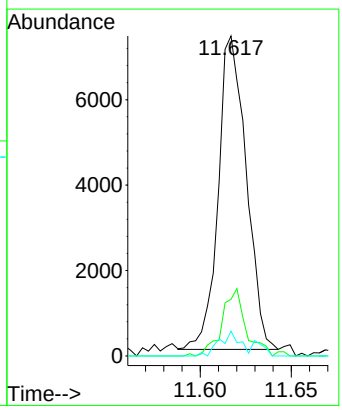
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

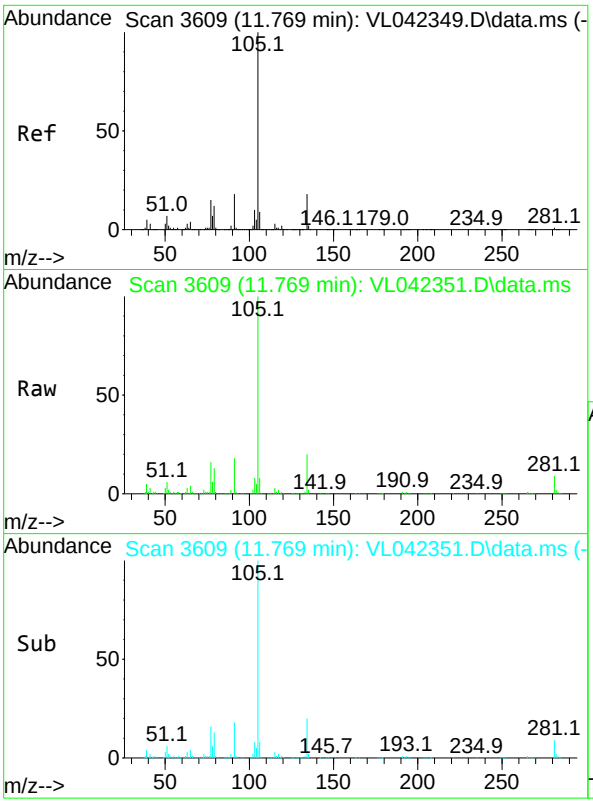


#66
Benzyl Chloride
Concen: 1.003 ppbv
RT: 11.617 min Scan# 3562
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

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#

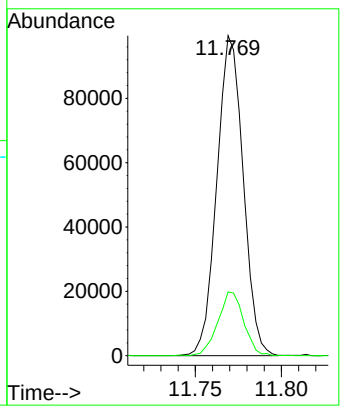




#67
sec-Butylbenzene
Concen: 1.067 ppbv
RT: 11.769 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion:105 Resp: 10591

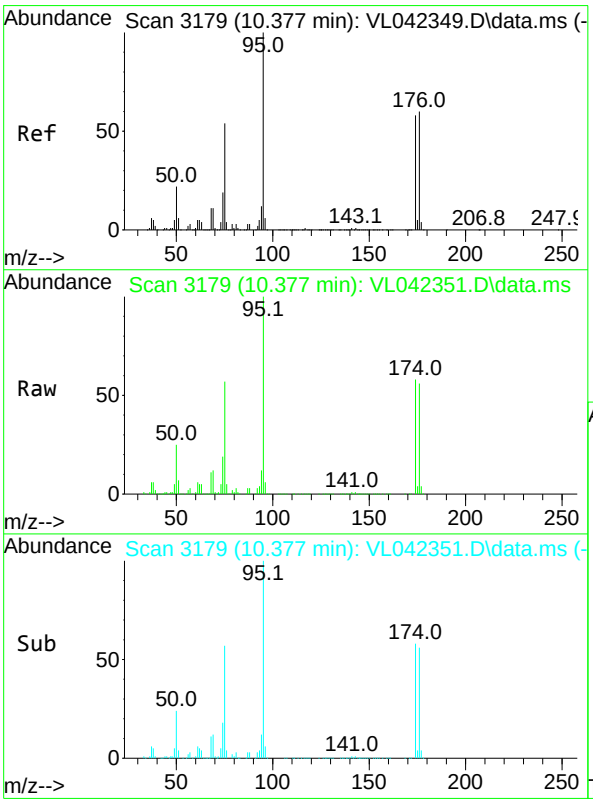
Ion	Ratio	Lower	Upper
105	100		
134	19.6	14.6	21.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

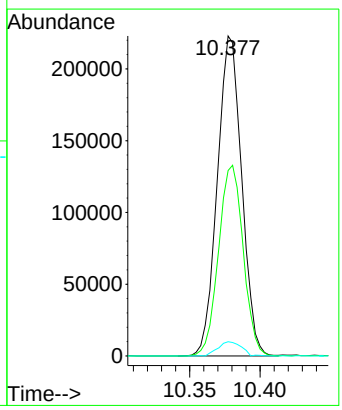
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

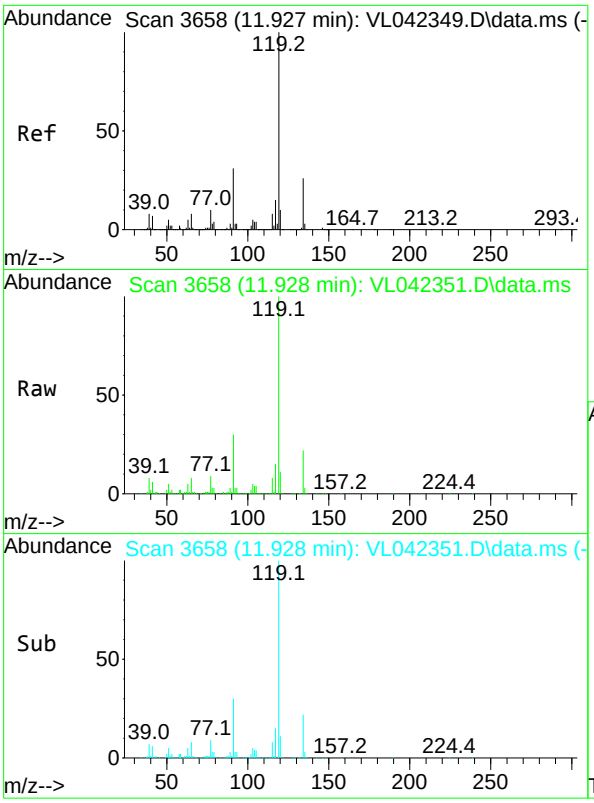


#68
1-Bromo-4-Fluorobenzene
Concen: 9.950 ppbv
RT: 10.377 min Scan# 3179
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

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

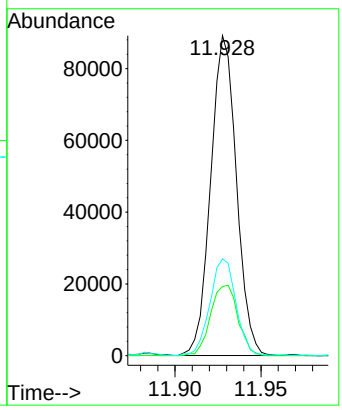




#69
p-Isopropyltoluene
Concen: 1.075 ppbv
RT: 11.928 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion:119 Resp: 9273

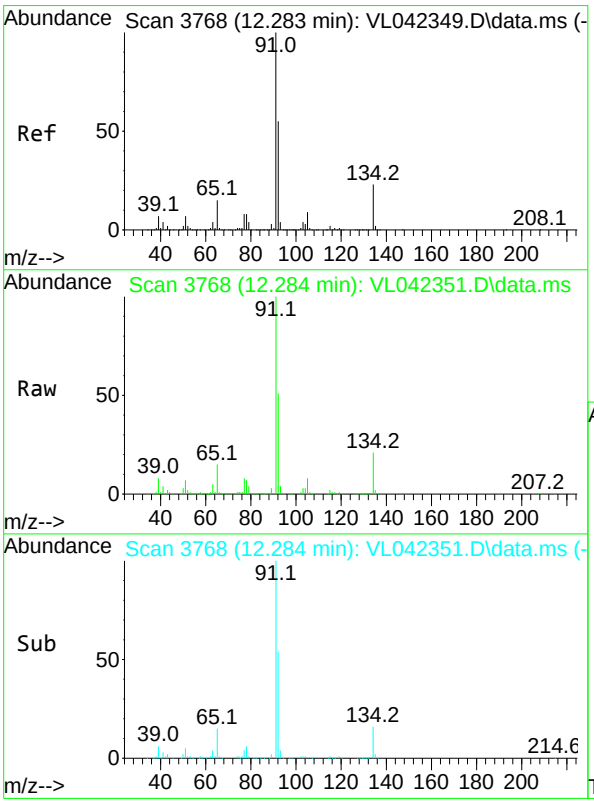
Ion	Ratio	Lower	Upper
119	100		
134	23.5	20.0	30.0
91	32.1	24.4	36.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

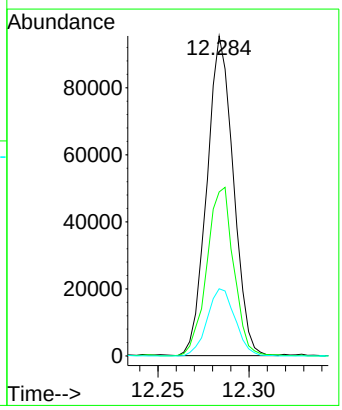
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

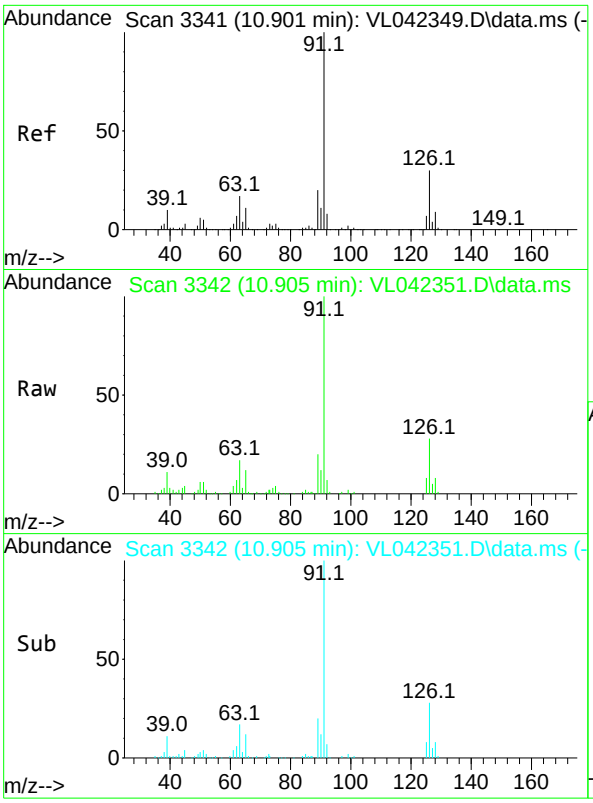


#70
n-Butylbenzene
Concen: 1.072 ppbv
RT: 12.284 min Scan# 3768
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

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

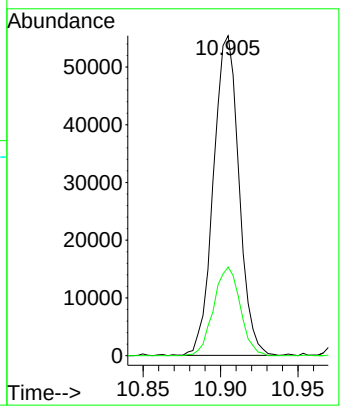




#71
2-Chlorotoluene
Concen: 1.040 ppbv
RT: 10.905 min Scan# 3
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 91 Resp: 6332

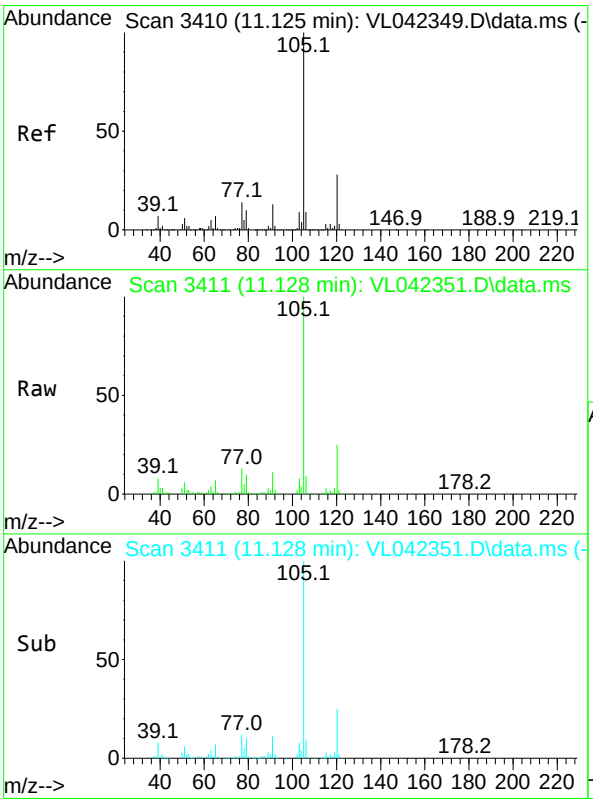
Ion	Ratio	Lower	Upper
91	100		
126	28.9	11.4	45.4



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

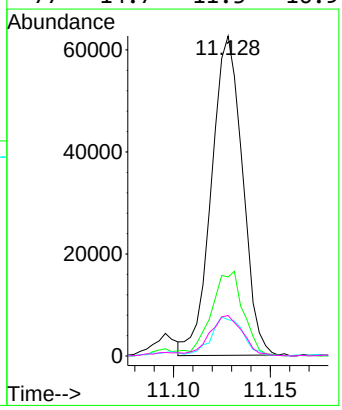
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

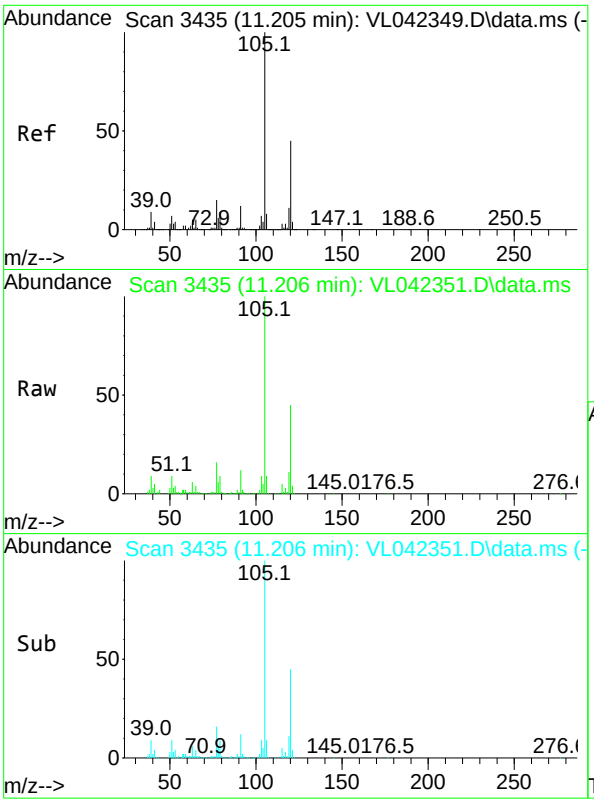


#72
4-Ethyltoluene
Concen: 1.078 ppbv
RT: 11.128 min Scan# 3411
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

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

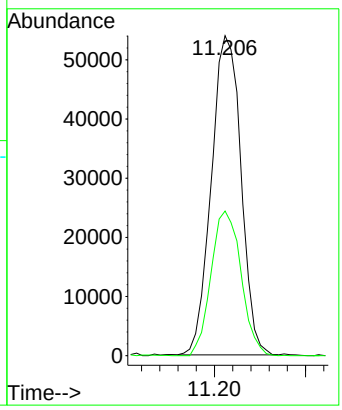




#73
1,3,5-Trimethylbenzene
Concen: 1.067 ppbv
RT: 11.206 min Scan# 34
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion:105 Resp: 6092

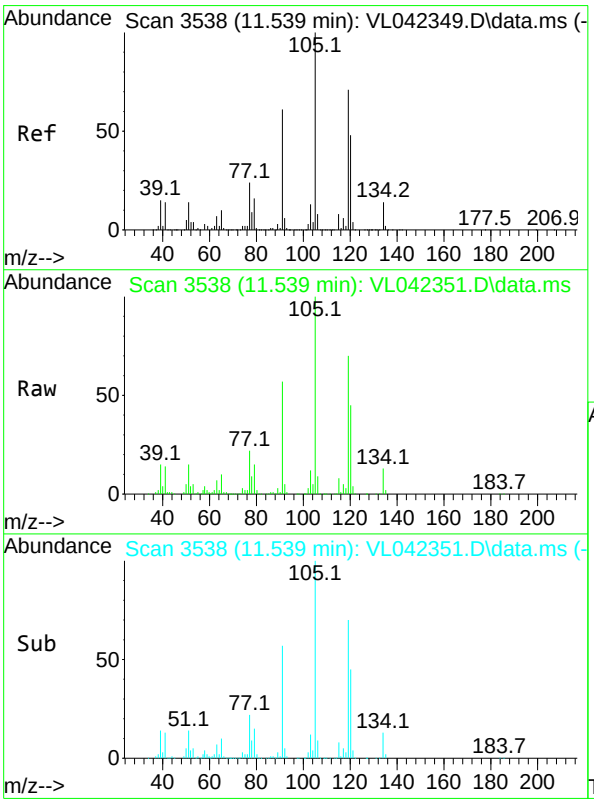
Ion	Ratio	Lower	Upper
105	100		
120	45.3	35.6	53.4



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

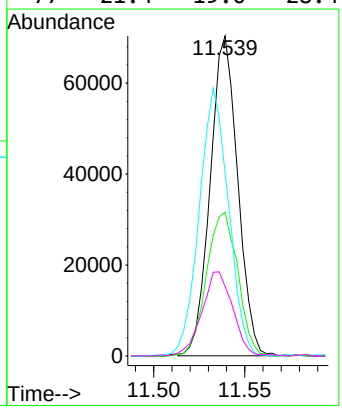
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

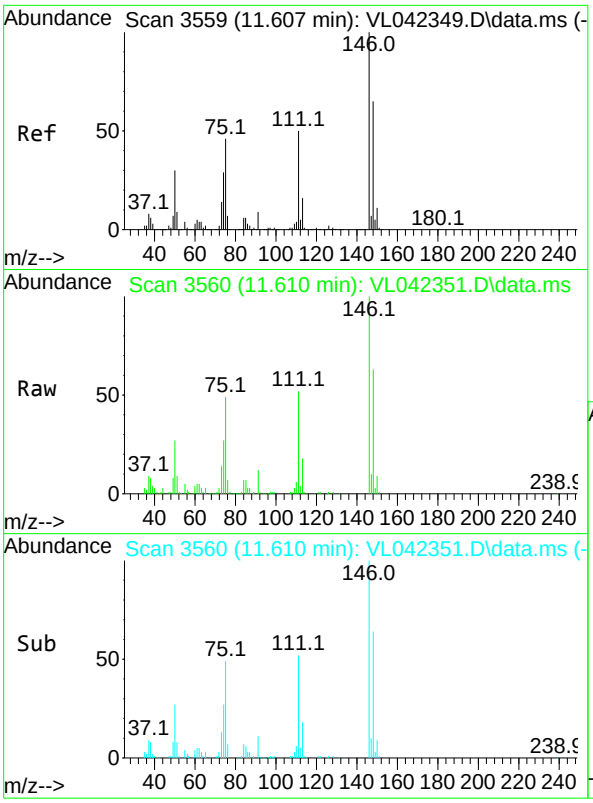


#74
1,2,4-Trimethylbenzene
Concen: 1.108 ppbv
RT: 11.539 min Scan# 3538
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

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

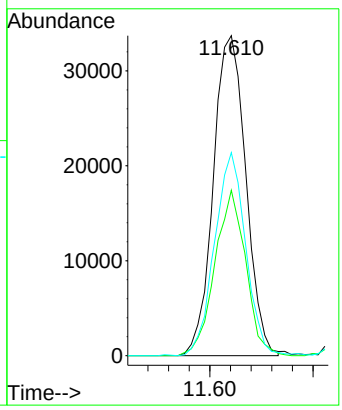




#75
1,3-Dichlorobenzene
Concen: 1.064 ppbv
RT: 11.610 min Scan# 3
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion:146 Resp: 3687

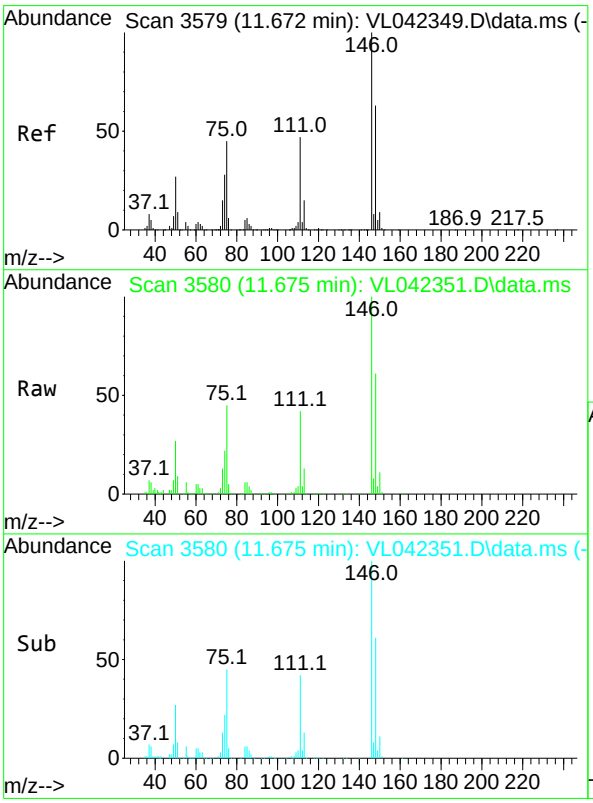
Ion	Ratio	Lower	Upper
146	100		
111	48.9	24.3	72.8
148	60.8	31.6	94.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

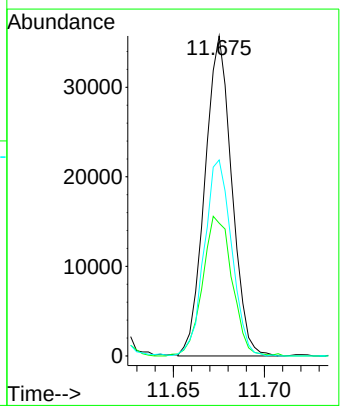
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

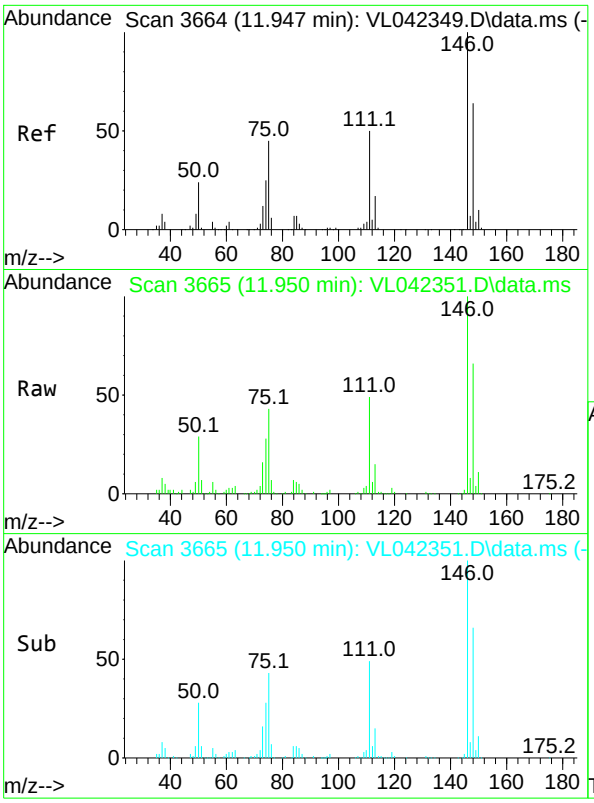


#76
1,4-Dichlorobenzene
Concen: 1.053 ppbv
RT: 11.675 min Scan# 3580
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

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

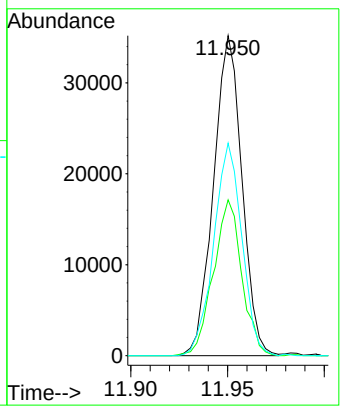




#77
1,2-Dichlorobenzene
Concen: 1.068 ppbv
RT: 11.950 min Scan# 3
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion:146 Resp: 3597

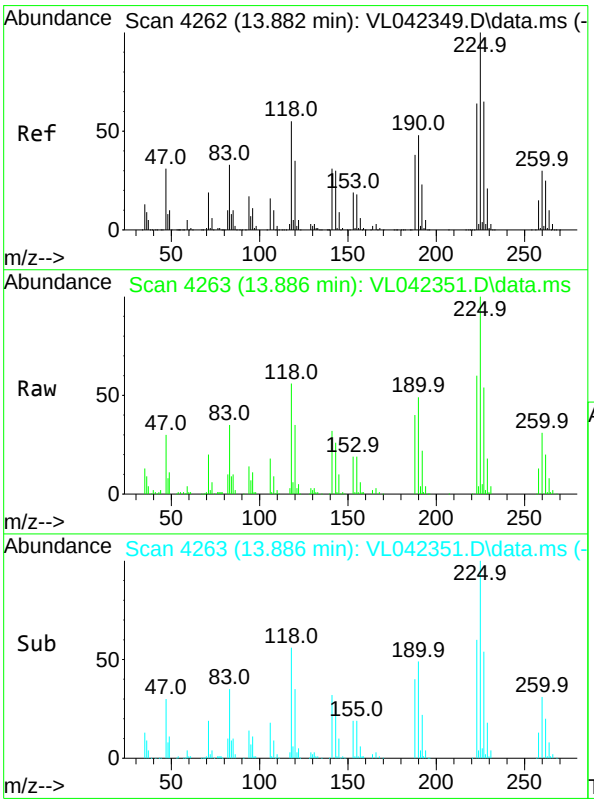
Ion	Ratio	Lower	Upper
146	100		
111	48.7	25.3	75.9
148	65.9	31.5	94.5



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

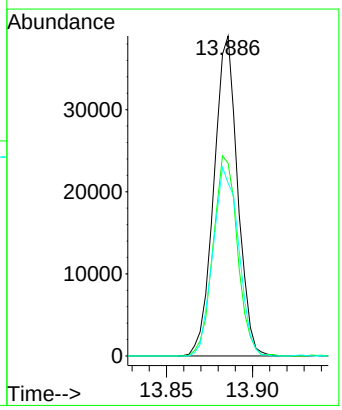
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

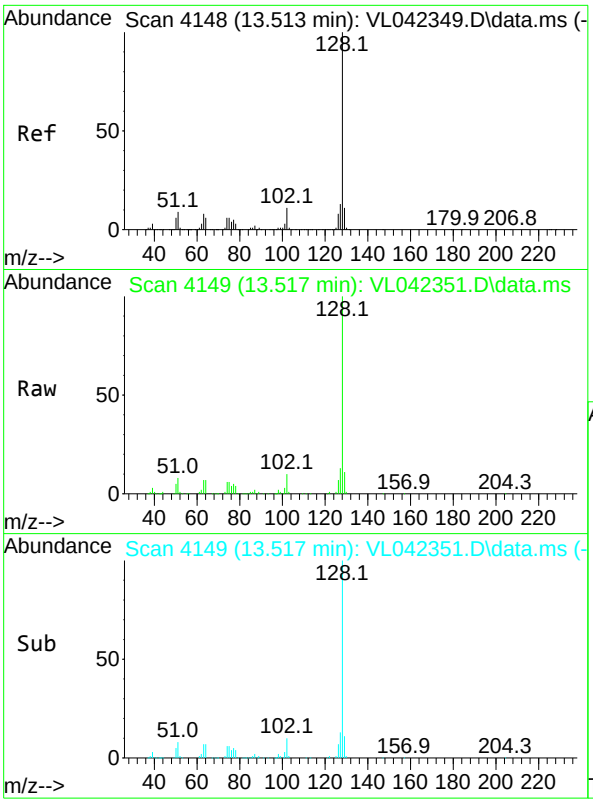


#78
Hexachloro-1,3-Butadiene
Concen: 1.098 ppbv
RT: 13.886 min Scan# 4263
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

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

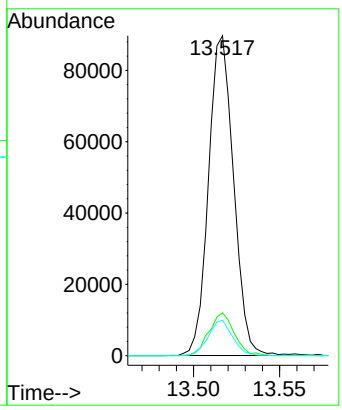




#79
Naphthalene
Concen: 1.138 ppbv
RT: 13.517 min Scan# 4
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion:128 Resp: 9071

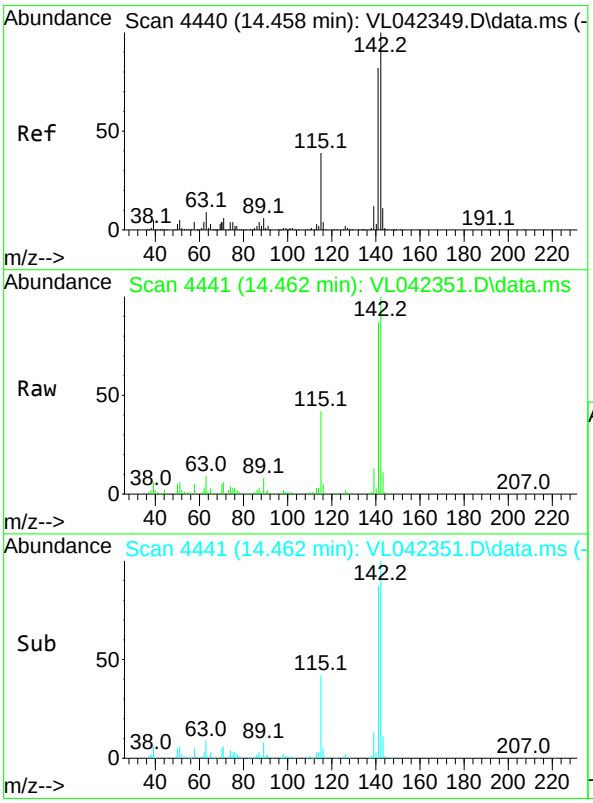
Ion	Ratio	Lower	Upper
128	100		
127	13.4	10.6	15.8
129	11.1	8.6	12.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

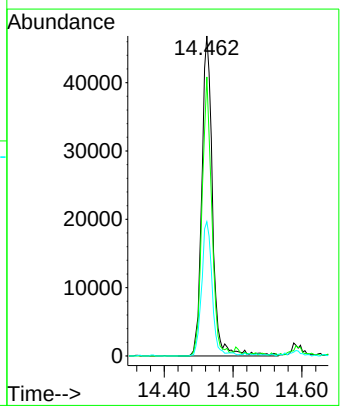
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

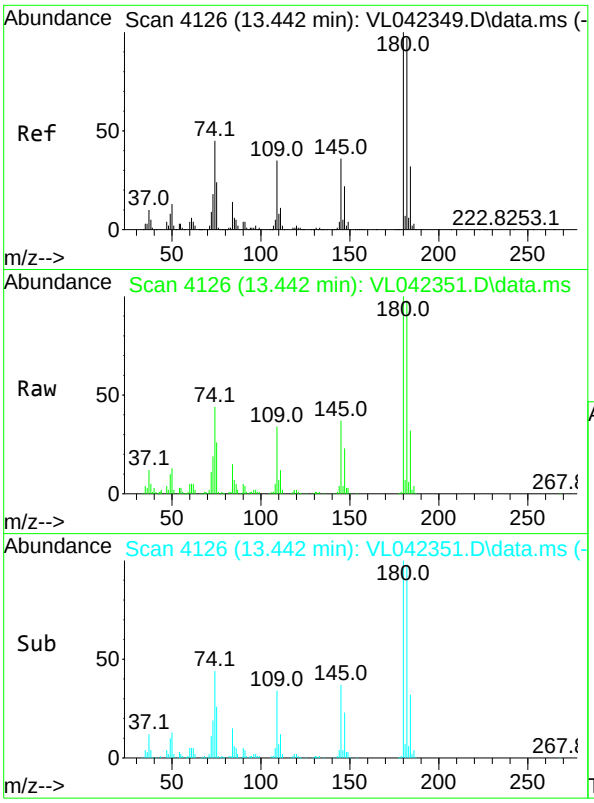


#80
Naphthalene,2-methyl-
Concen: 1.111 ppbv
RT: 14.462 min Scan# 4441
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

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

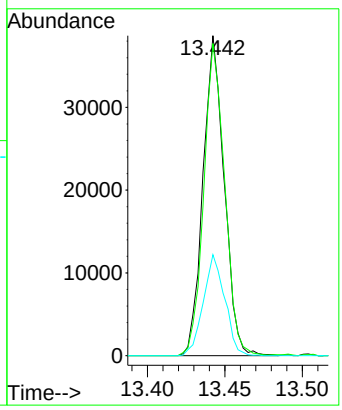




#81
1,2,4-Trichlorobenzene
Concen: 1.074 ppbv
RT: 13.442 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

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

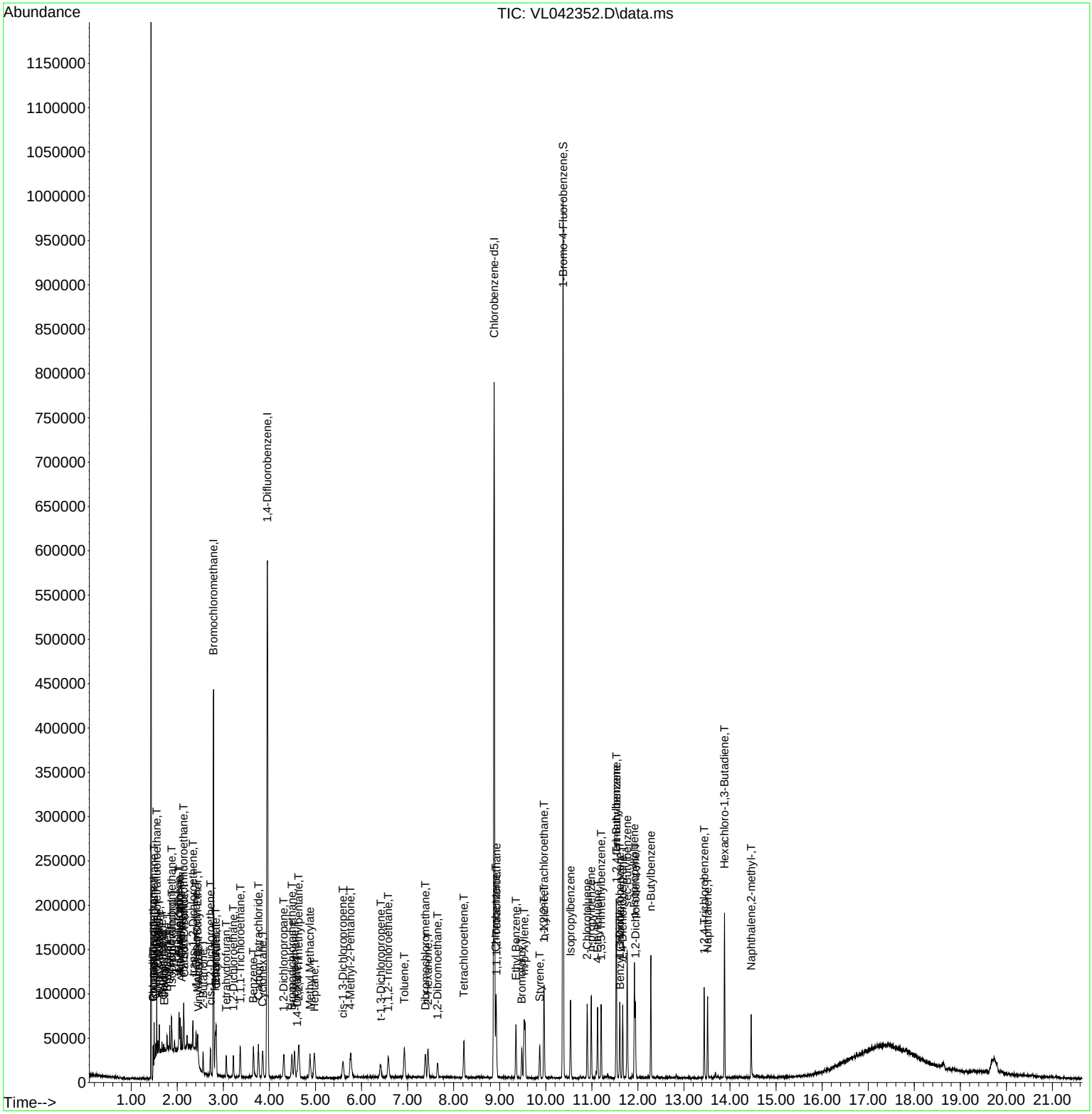
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042352.D
Acq On : 17 Apr 2025 11:19
Operator : SY/MD
Sample : VSTDICC0.5
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

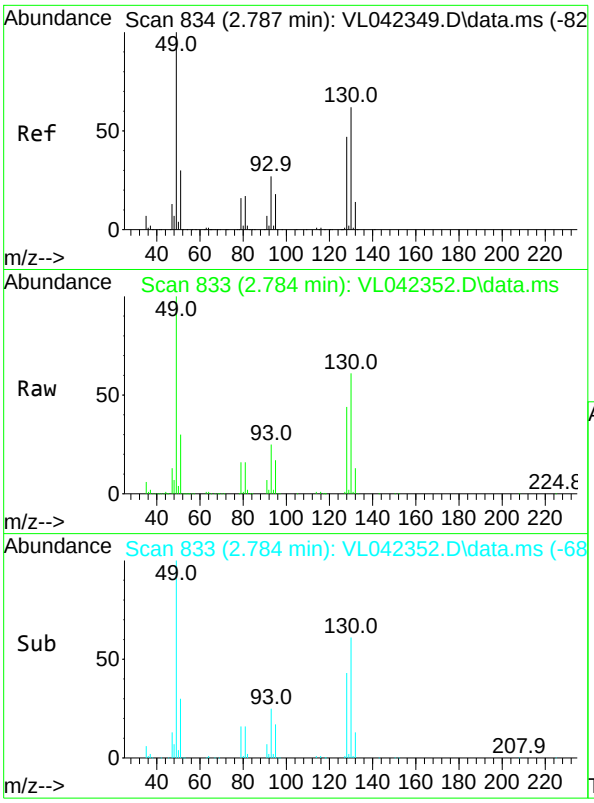
Quant Time: Apr 18 01:28:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Apr 18 01:24:29 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations APPROVED

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

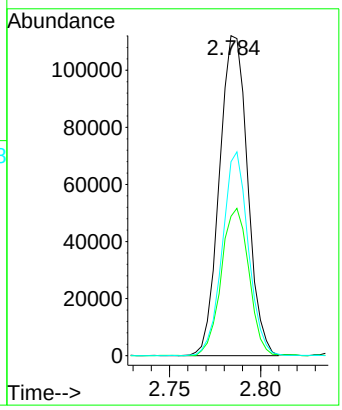




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 8
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 49 Resp: 12054

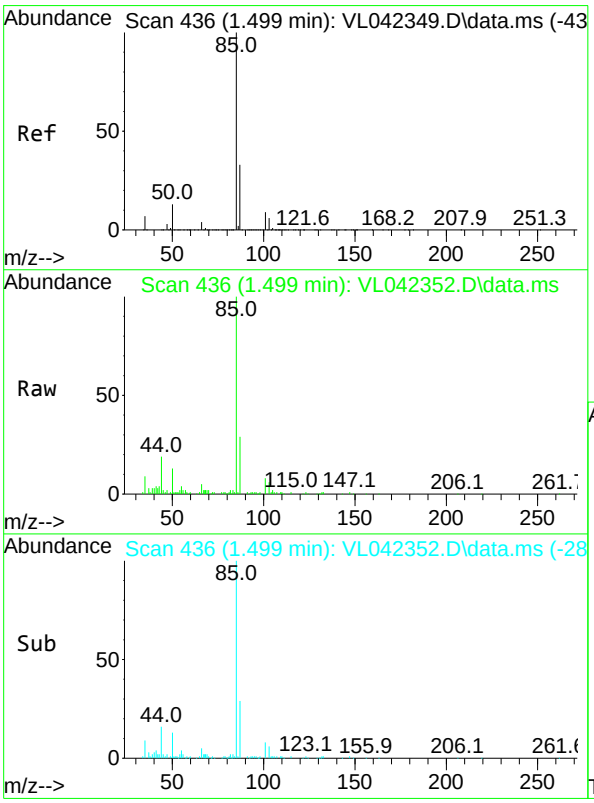
Ion	Ratio	Lower	Upper
49	100		
128	45.3	22.8	68.4
130	59.0	29.3	88.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

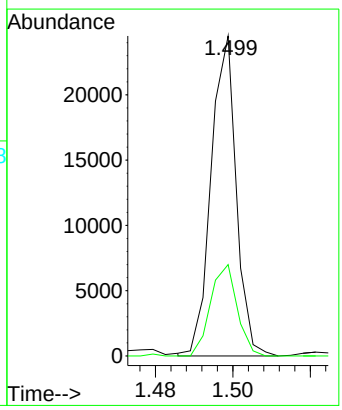
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

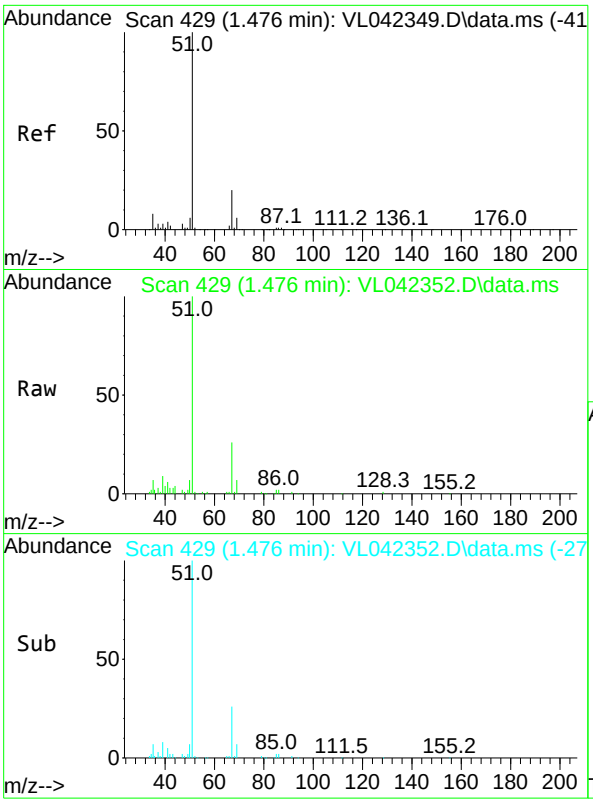


#2
Dichlorodifluoromethane
Concen: 0.518 ppbv
RT: 1.499 min Scan# 436
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 85 Resp: 11036

Ion	Ratio	Lower	Upper
85	100		
87	28.6	26.6	39.8

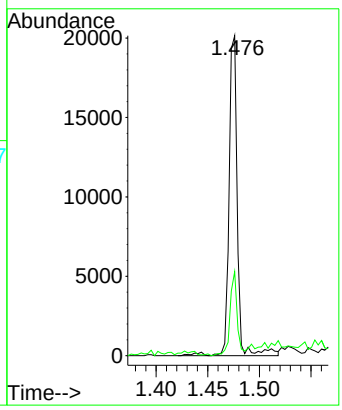




#3
Chlorodifluoromethane
Concen: 0.557 ppbv
RT: 1.476 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 51 Resp: 1130

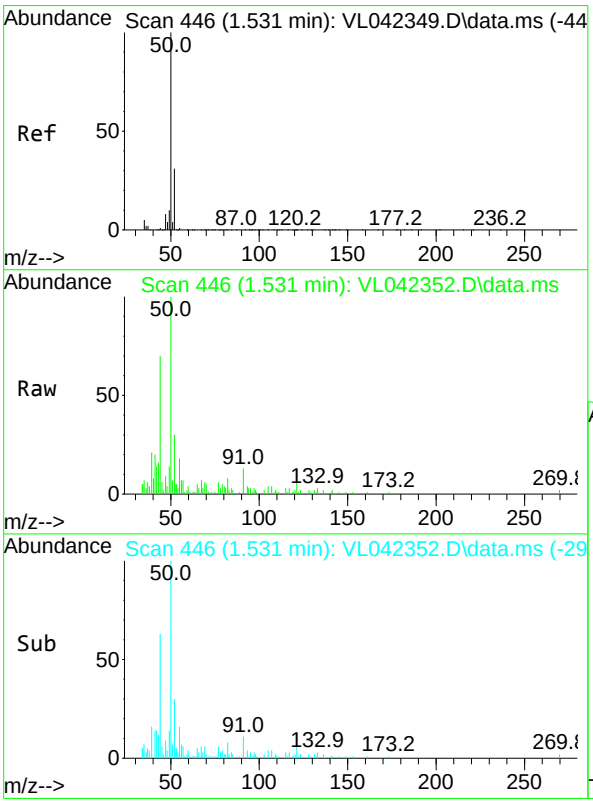
Ion	Ratio	Lower	Upper
51	100		
67	27.8	16.2	24.4



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

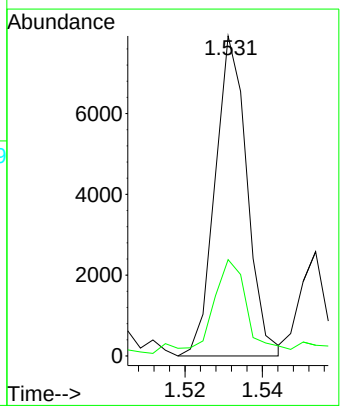
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

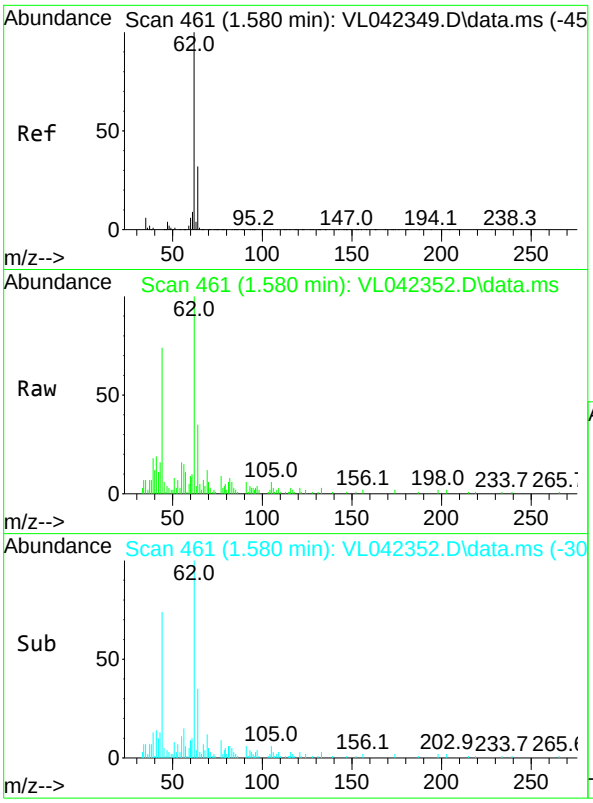


#4
Chloromethane
Concen: 0.538 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 50 Resp: 4534

Ion	Ratio	Lower	Upper
50	100		
52	32.8	24.7	37.1

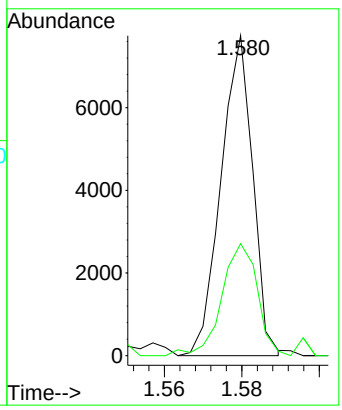




#5
Vinyl Chloride
Concen: 0.480 ppbv
RT: 1.580 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 62 Resp: 440

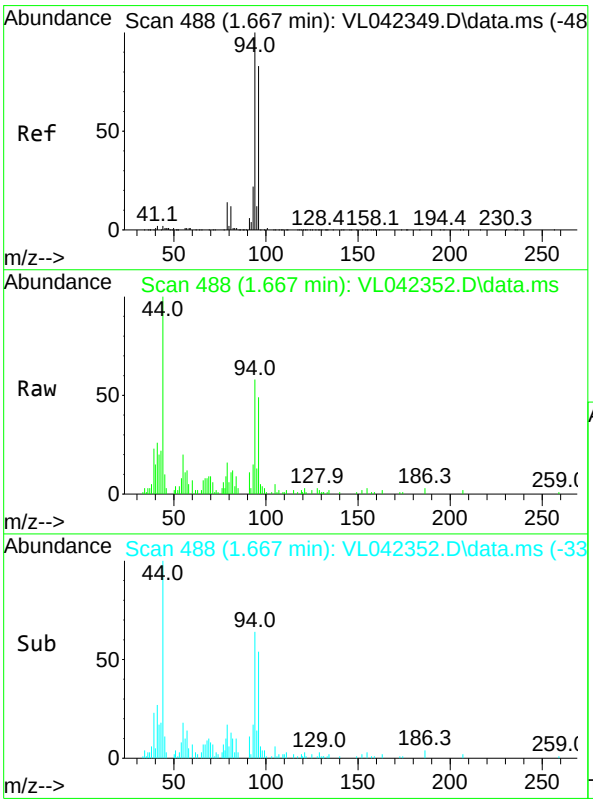
Ion	Ratio	Lower	Upper
62	100		
64	33.5	25.4	38.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

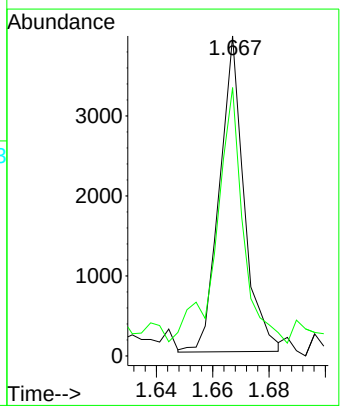
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

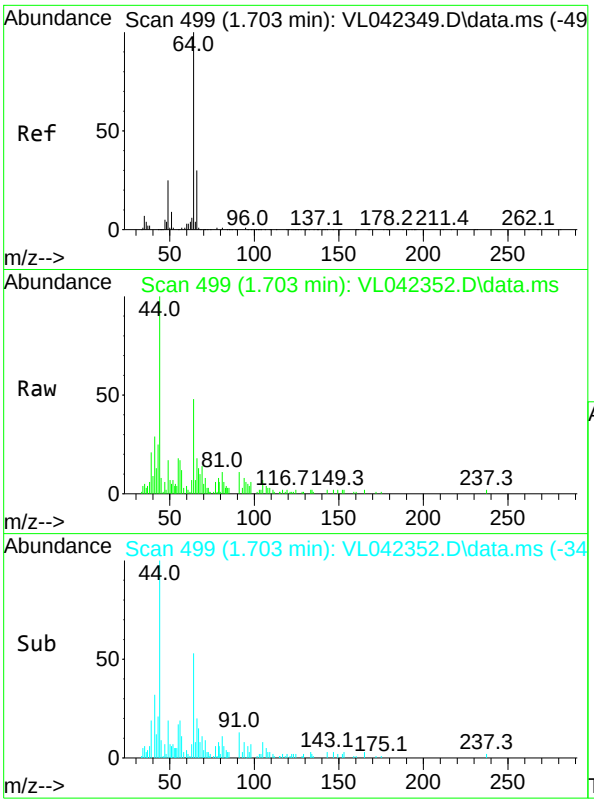


#6
Bromomethane
Concen: 0.602 ppbv
RT: 1.667 min Scan# 488
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 94 Resp: 2394

Ion	Ratio	Lower	Upper
94	100		
96	78.1	66.2	99.2

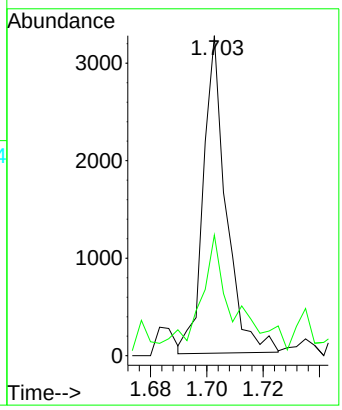




#7
Chloroethane
Concen: 0.550 ppbv
RT: 1.703 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 64 Resp: 182

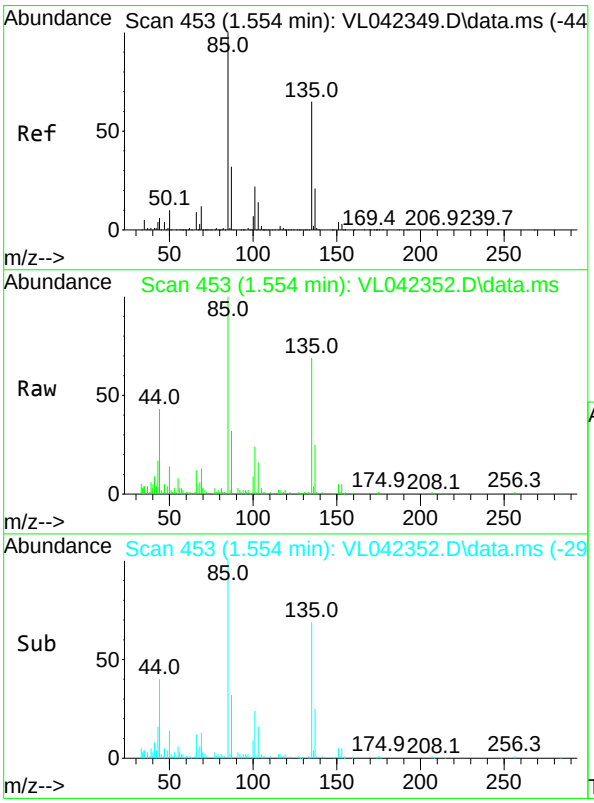
Ion	Ratio	Lower	Upper
64	100		
66	37.7	24.6	37.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

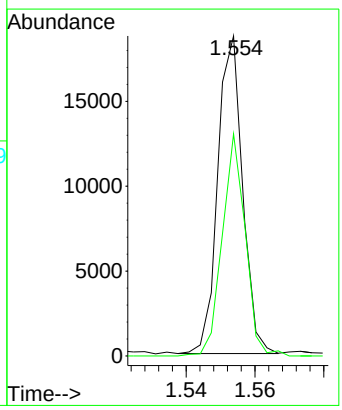
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

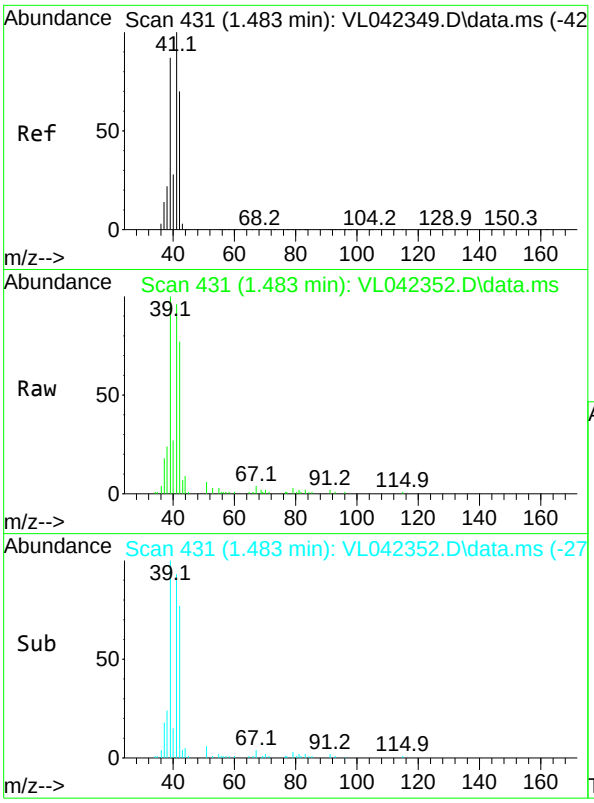


#8
Dichlorotetrafluoroethane
Concen: 0.513 ppbv
RT: 1.554 min Scan# 453
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 85 Resp: 9381

Ion	Ratio	Lower	Upper
85	100		
135	66.2	52.2	78.2

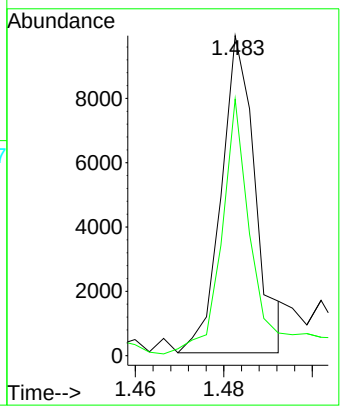




#9
Propene
Concen: 0.574 ppbv
RT: 1.483 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 41 Resp: 530

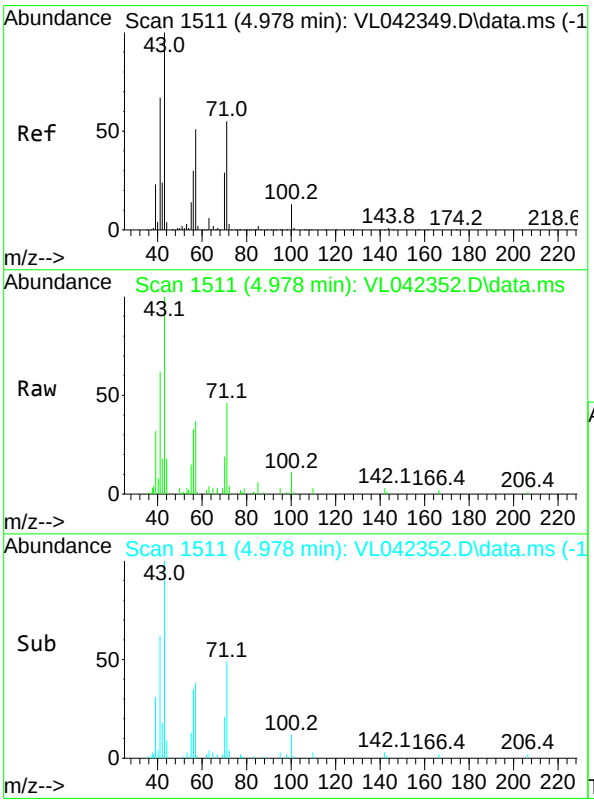
Ion	Ratio	Lower	Upper
41	100		
42	64.8	56.2	84.4



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

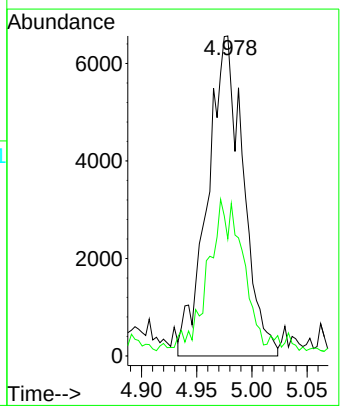
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

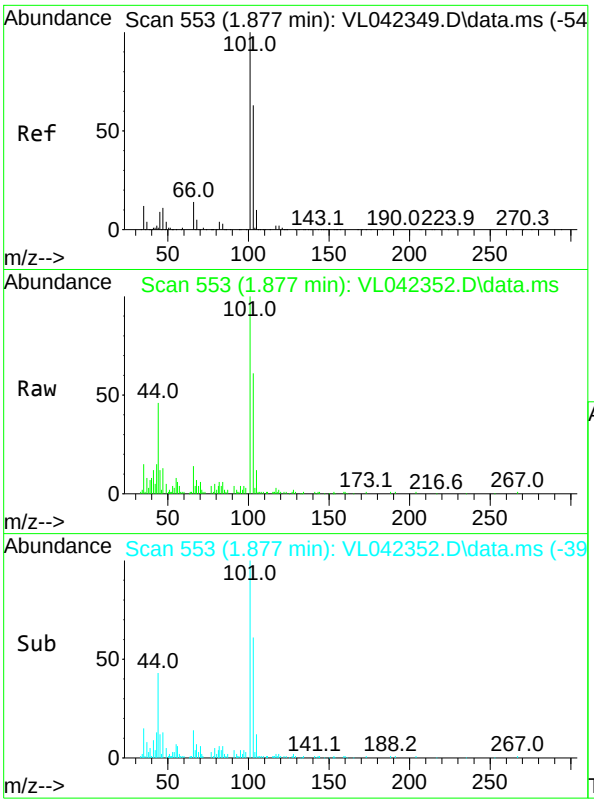


#10
Heptane
Concen: 0.593 ppbv m
RT: 4.978 min Scan# 1511
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

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

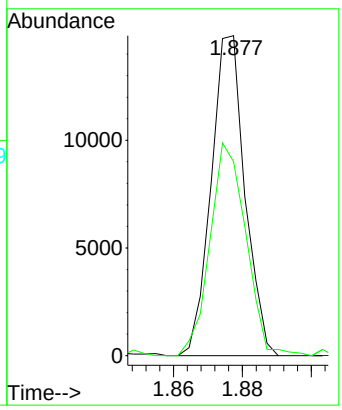
Tgt Ion:101 Resp: 1015

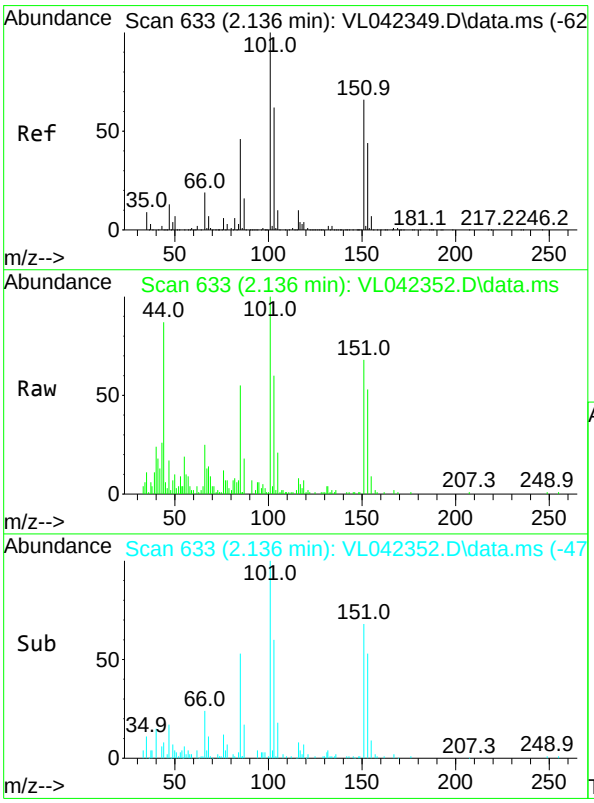
Ion	Ratio	Lower	Upper
101	100		
103	60.6	50.1	75.1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

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

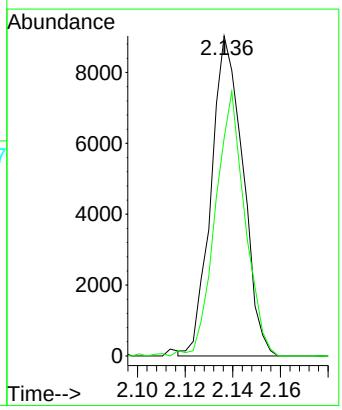


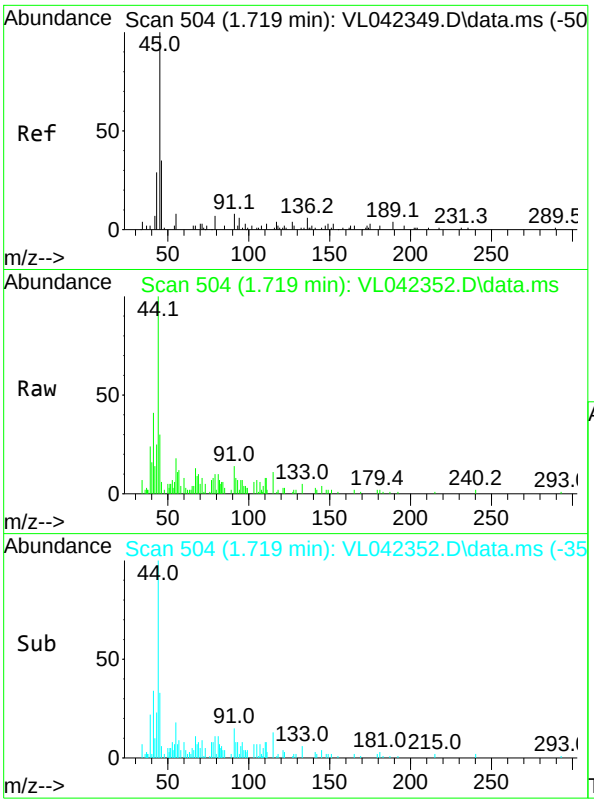


#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.506 ppbv
RT: 2.136 min Scan# 633
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

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

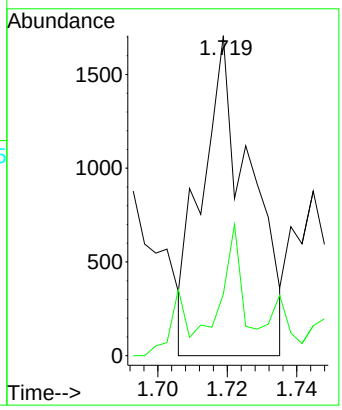
Tgt Ion: 45 Resp: 165(

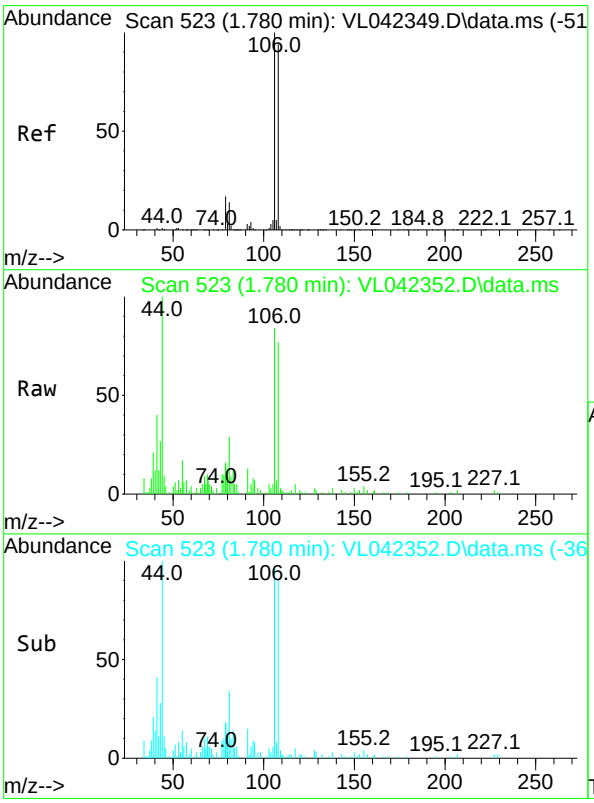
Ion	Ratio	Lower	Upper
45	100		
46	0.0	21.9	87.7#

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

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

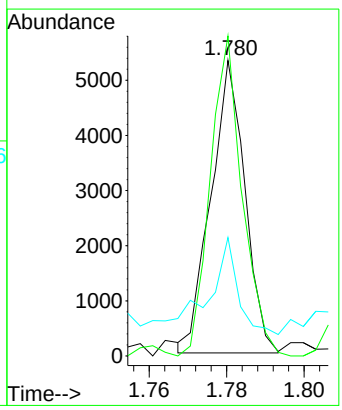


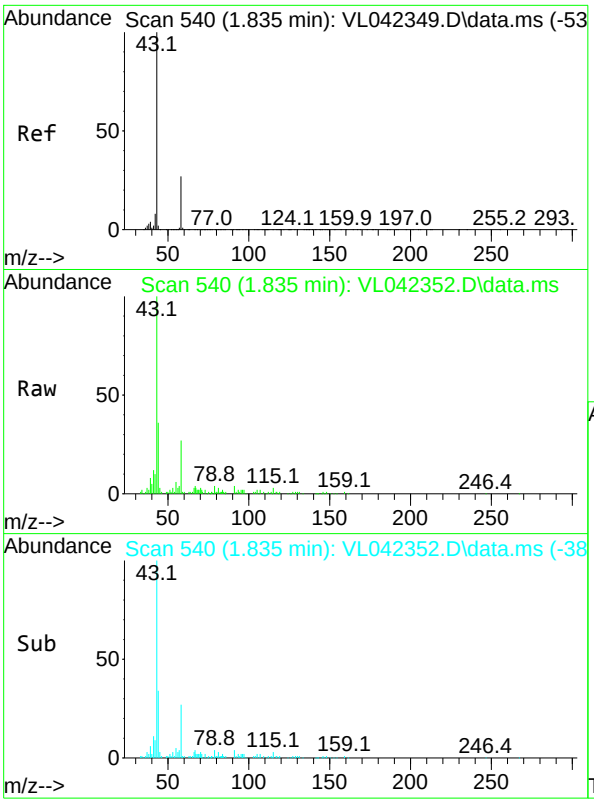


#14
Bromoethene
Concen: 0.519 ppbv
RT: 1.780 min Scan# 523
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

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

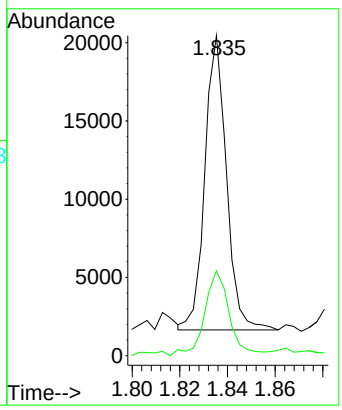
Tgt Ion: 43 Resp: 1185

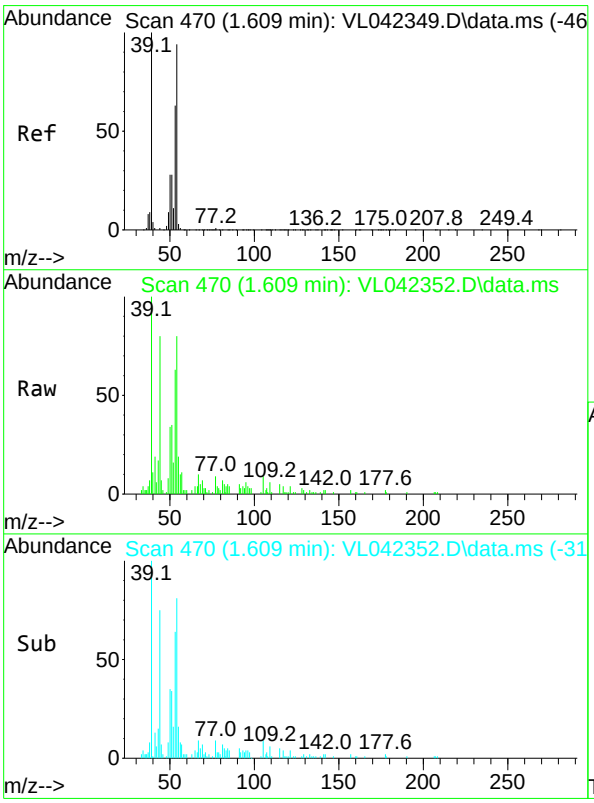
Ion	Ratio	Lower	Upper
43	100		
58	41.7	22.4	33.6#

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

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

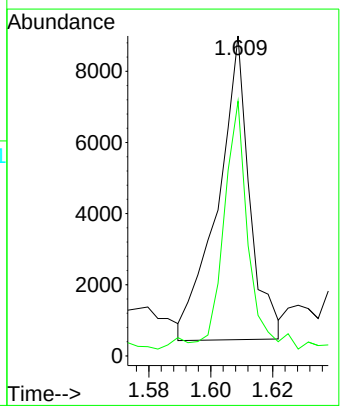


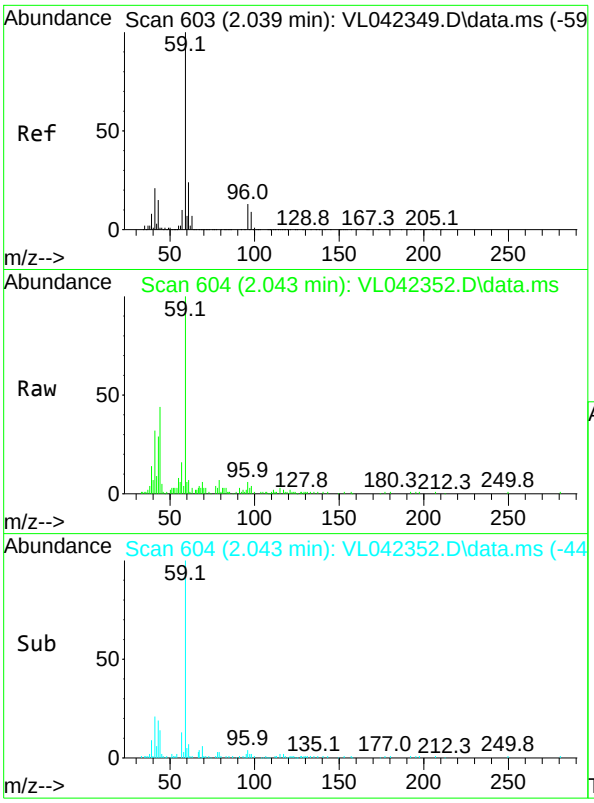


#16
1,3-Butadiene
Concen: 0.660 ppbv
RT: 1.609 min Scan# 470
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

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

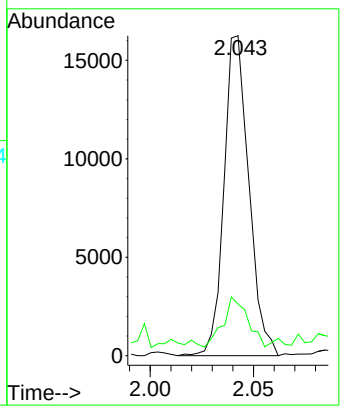
Tgt Ion: 59 Resp: 1364

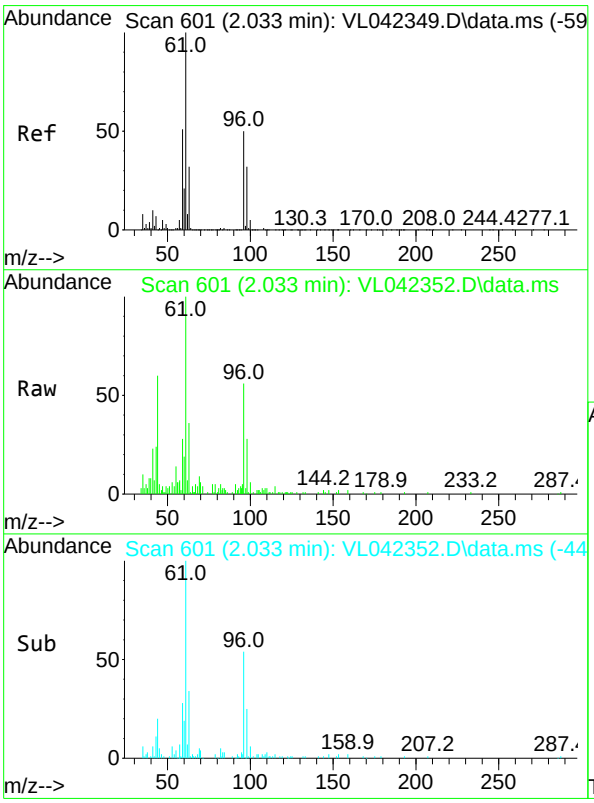
Ion	Ratio	Lower	Upper
59	100		
57	16.5	8.7	13.1#

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

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

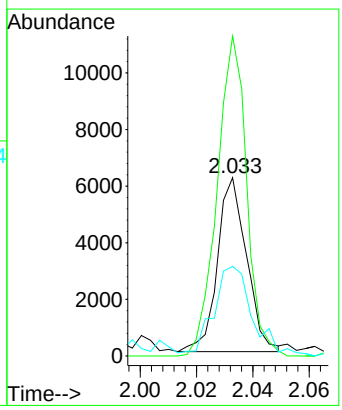


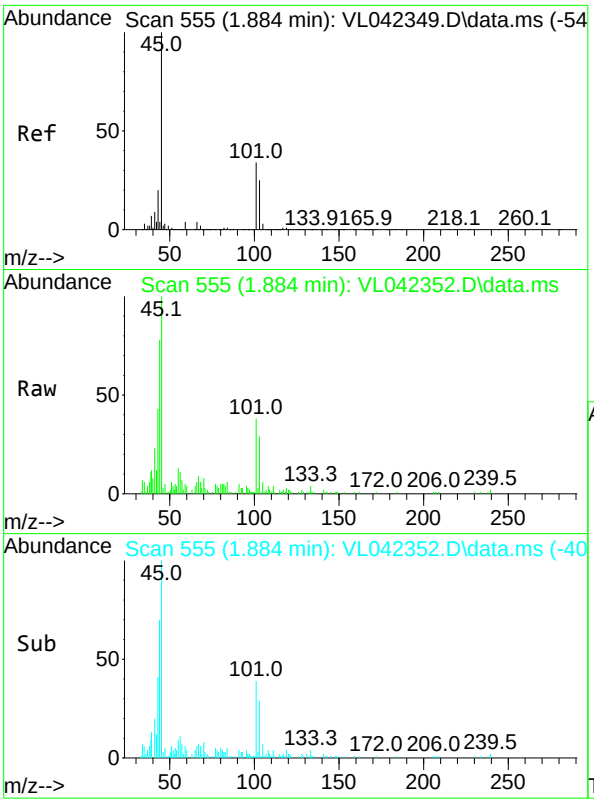


#18
1,1-Dichloroethene
Concen: 0.556 ppbv
RT: 2.033 min Scan# 601
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

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

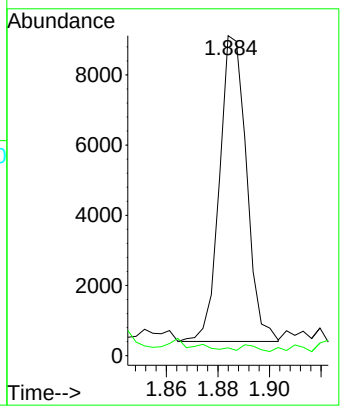
Tgt Ion: 45 Resp: 632

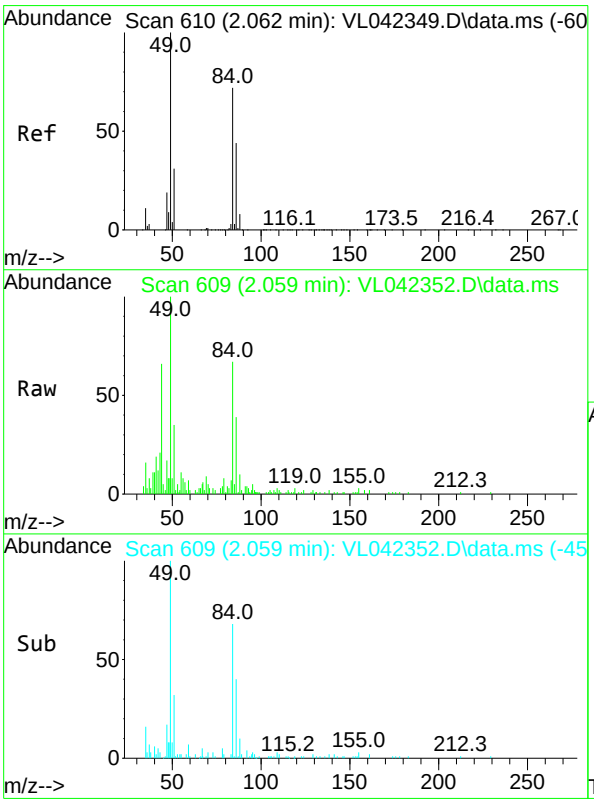
Ion	Ratio	Lower	Upper
45	100		
58	3.8	34.5	51.7#

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

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

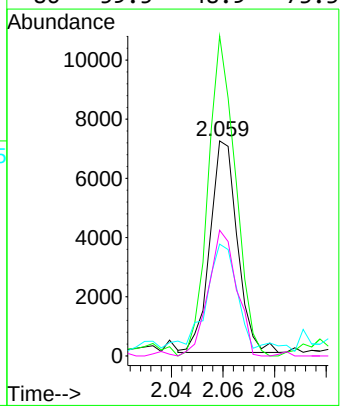


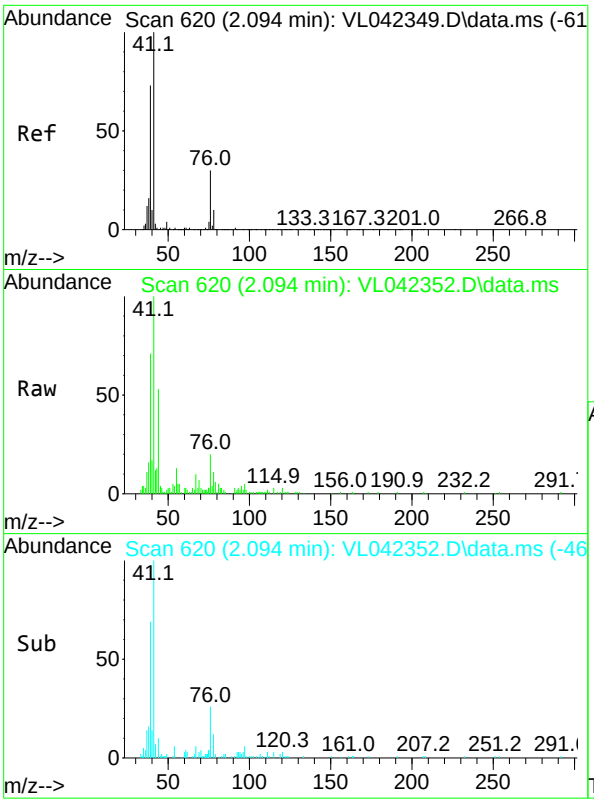


#20
Methylene Chloride
Concen: 0.682 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

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

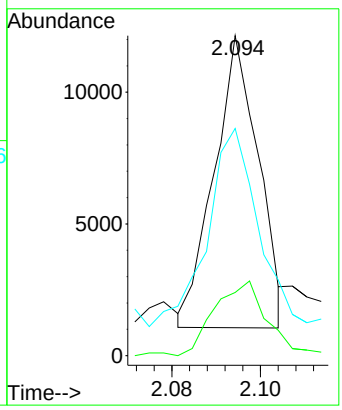




#21
Allyl Chloride
Concen: 0.565 ppbv
RT: 2.094 min Scan# 6
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 41 Resp: 769

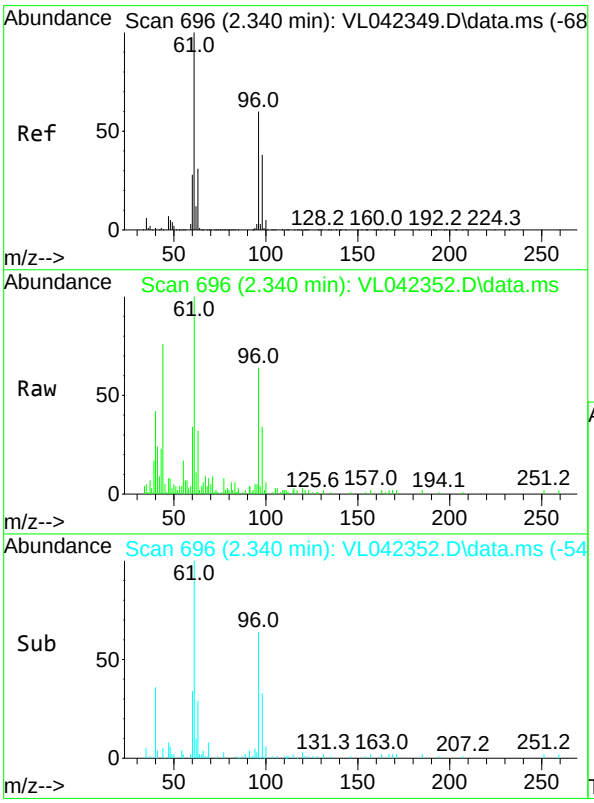
Ion	Ratio	Lower	Upper
41	100		
76	31.1	24.8	37.2
39	98.8	60.6	90.8#



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

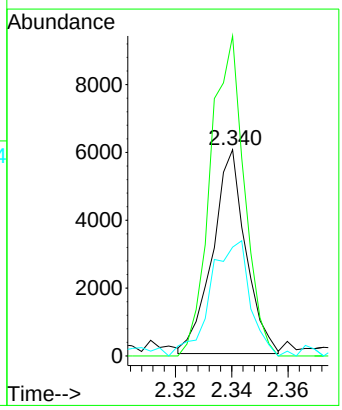
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

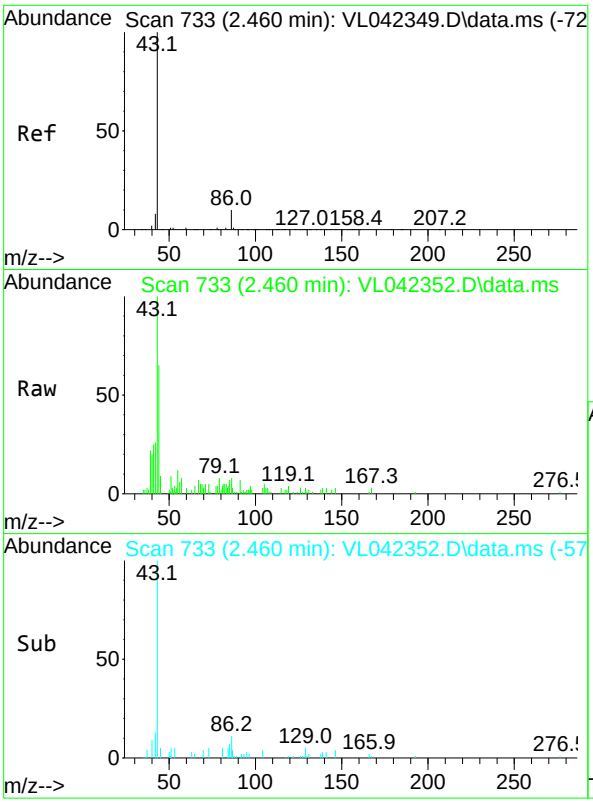


#22
trans-1,2-Dichloroethene
Concen: 0.557 ppbv
RT: 2.340 min Scan# 696
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

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

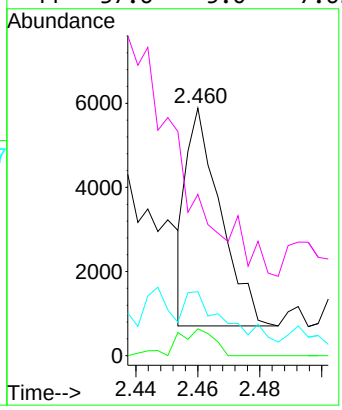




#23
Vinyl Acetate
Concen: 0.495 ppbv
RT: 2.460 min Scan# 7
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 43 Resp: 395

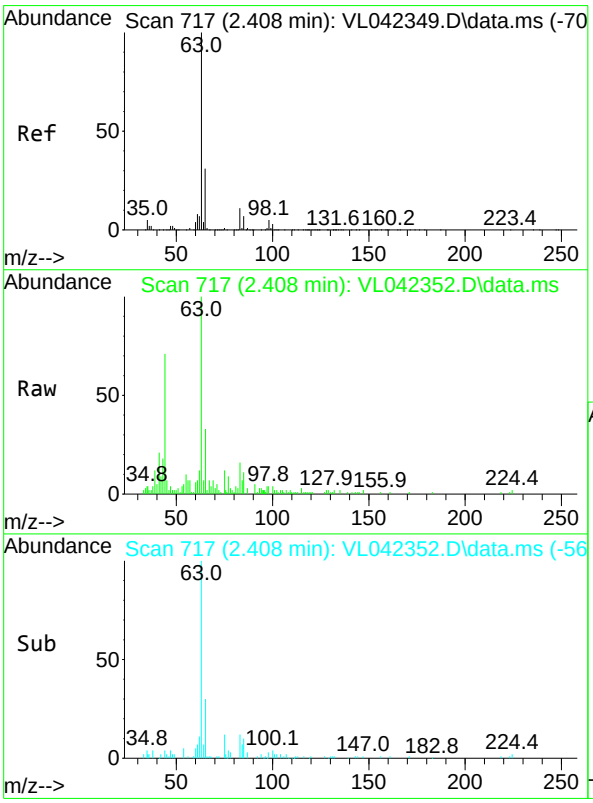
Ion	Ratio	Lower	Upper
43	100		
86	12.4	6.5	9.7#
42	23.2	7.8	11.8#
44	37.6	5.0	7.6#



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

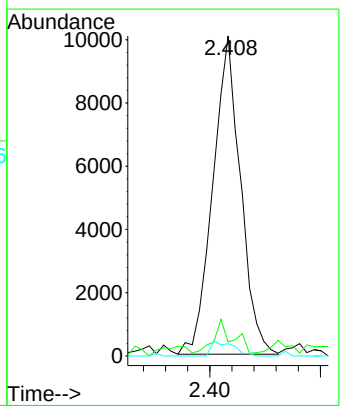
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

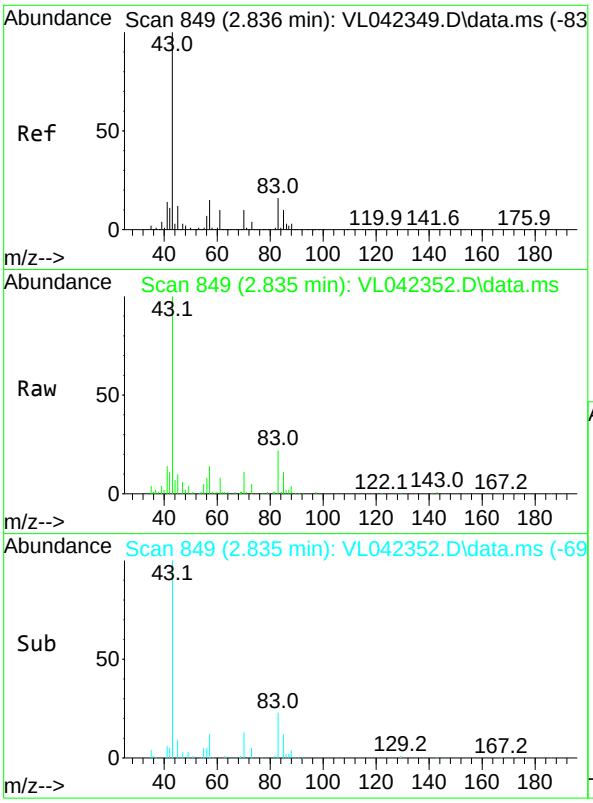


#24
1,1-Dichloroethane
Concen: 0.523 ppbv
RT: 2.408 min Scan# 717
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

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

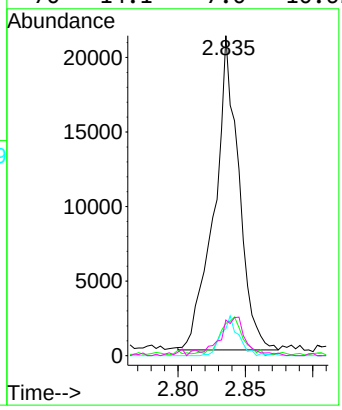




#25
Ethyl Acetate
Concen: 0.548 ppbv
RT: 2.835 min Scan# 84
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 43 Resp: 2668

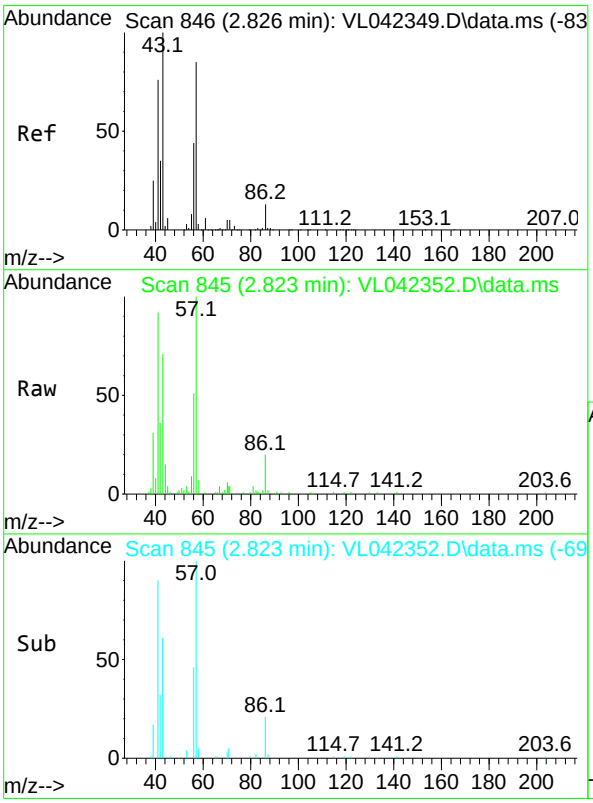
Ion	Ratio	Lower	Upper
43	100		
45	13.3	8.3	12.5#
61	9.0	7.3	10.9
70	14.1	7.0	10.6#



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

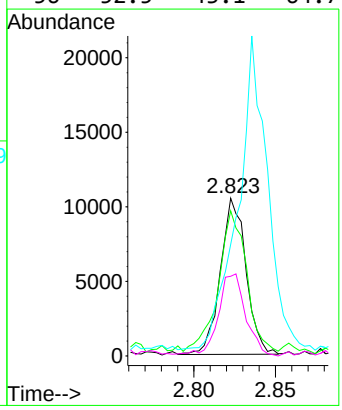
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

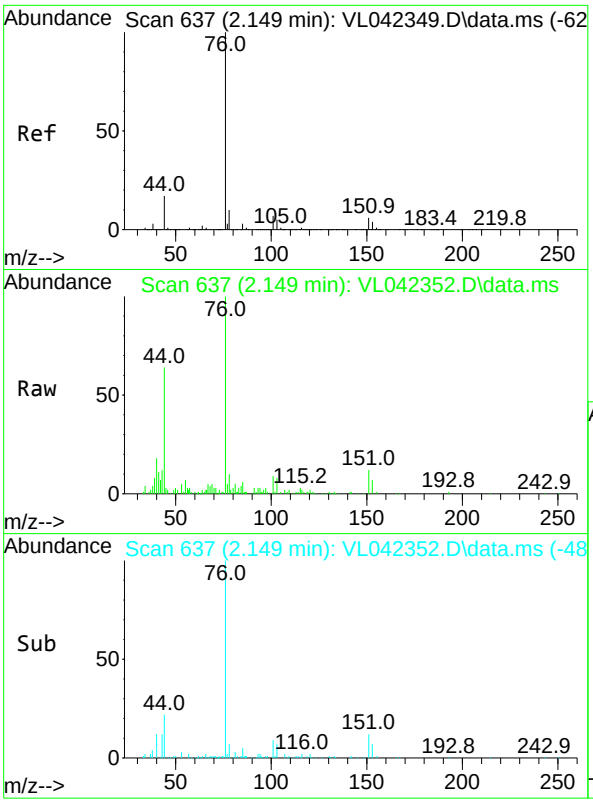


#26
Hexane
Concen: 0.581 ppbv
RT: 2.823 min Scan# 845
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

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

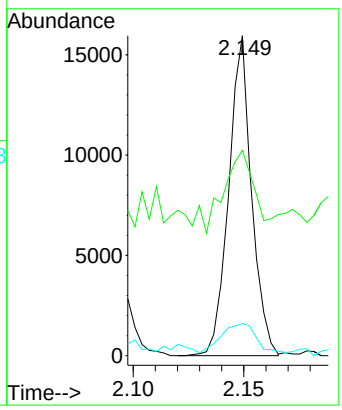




#27
Carbon Disulfide
Concen: 0.544 ppbv
RT: 2.149 min Scan# 6
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 76 Resp: 1147

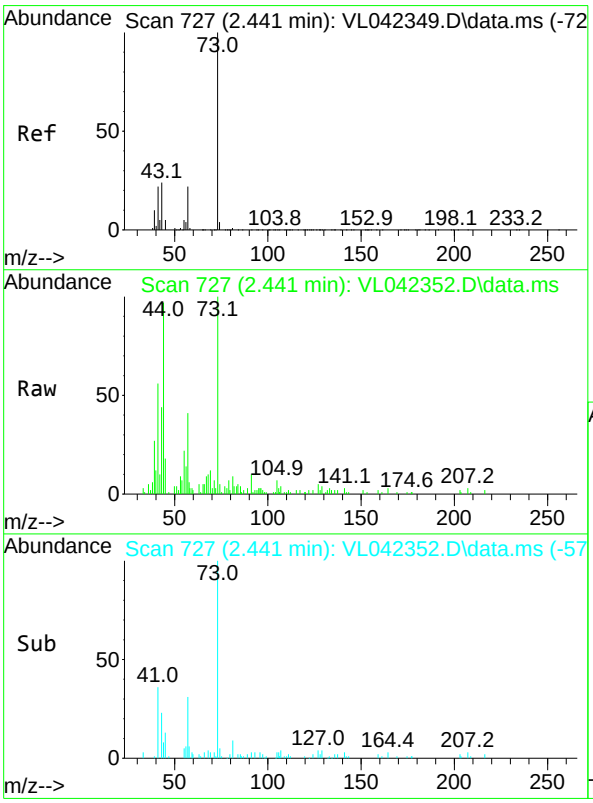
Ion	Ratio	Lower	Upper
76	100		
44	123.7	15.5	23.3#
78	18.8	9.3	13.9#



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

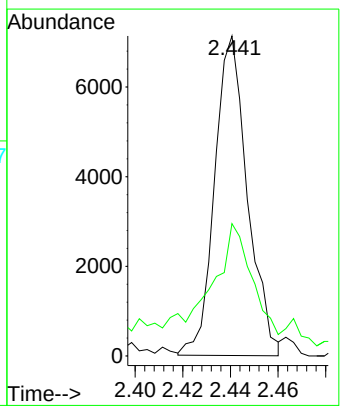
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

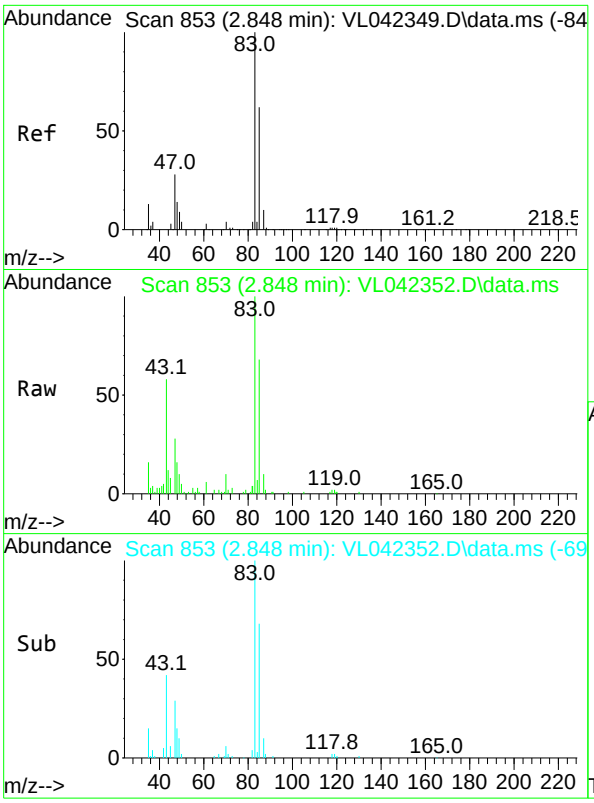


#28
Methyl tert-Butyl Ether
Concen: 0.530 ppbv
RT: 2.441 min Scan# 727
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

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

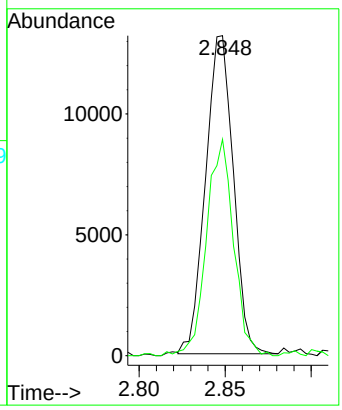
Tgt Ion: 83 Resp: 1481

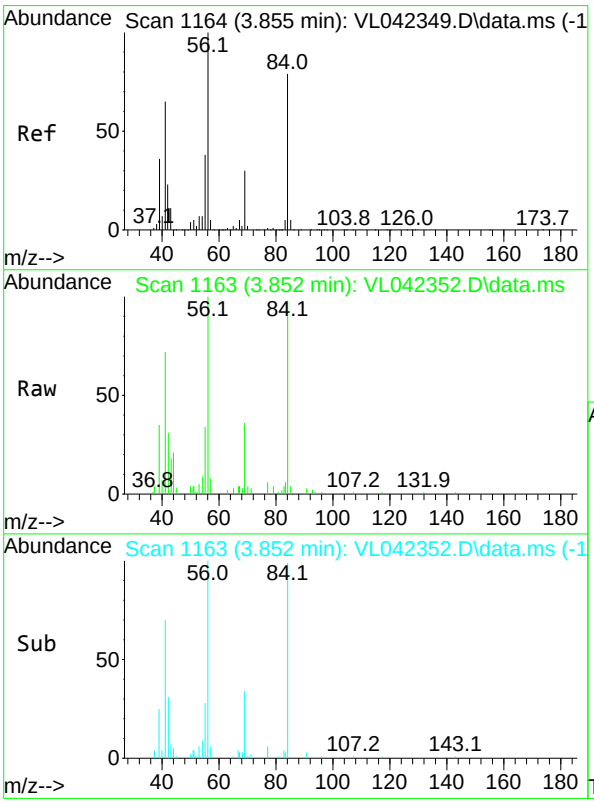
Ion	Ratio	Lower	Upper
83	100		
85	68.0	50.0	75.0

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

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

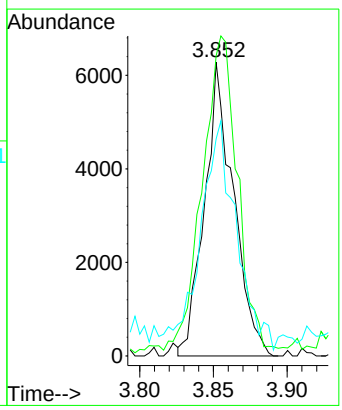


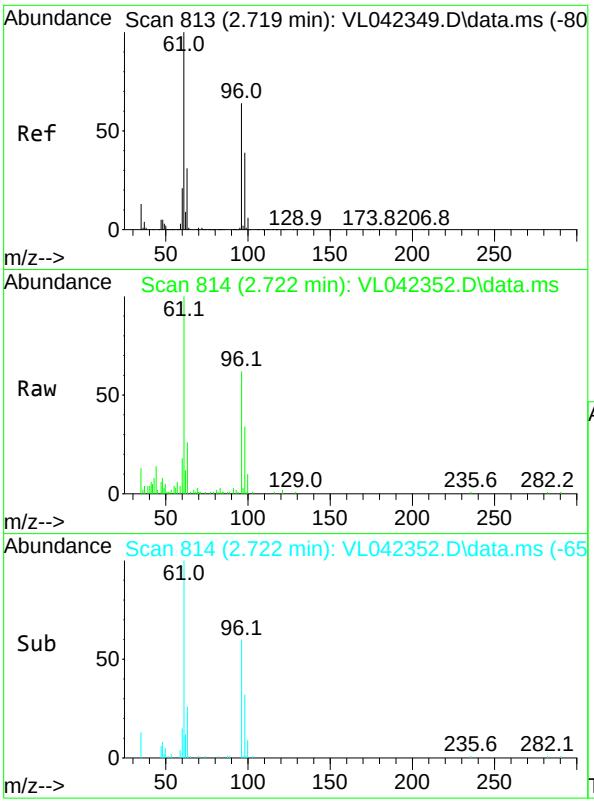


#30
Cyclohexane
Concen: 0.541 ppbv
RT: 3.852 min Scan# 1163
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

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

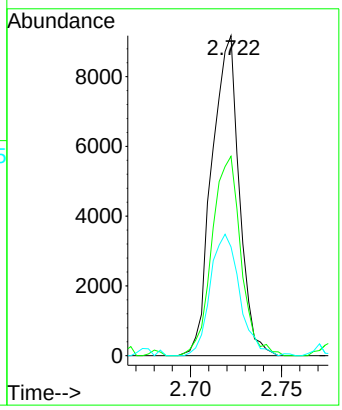




#31
cis-1,2-Dichloroethene
Concen: 0.511 ppbv
RT: 2.722 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 61 Resp: 957

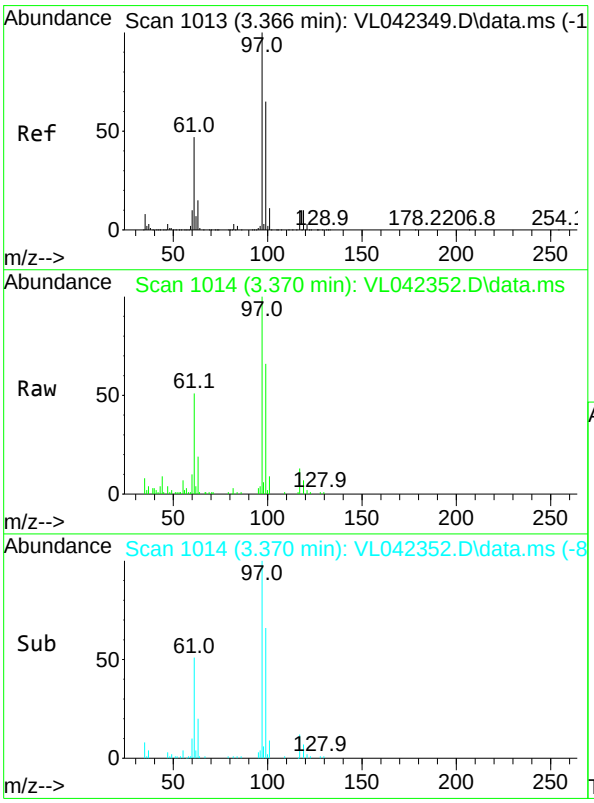
Ion	Ratio	Lower	Upper
61	100		
96	62.3	50.8	76.2
98	34.0	30.9	46.3



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

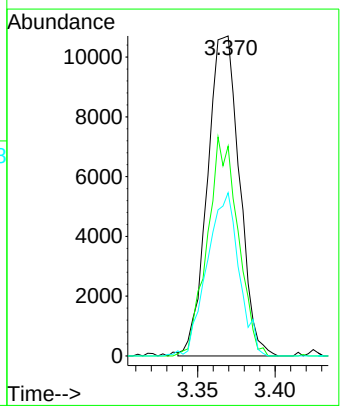
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

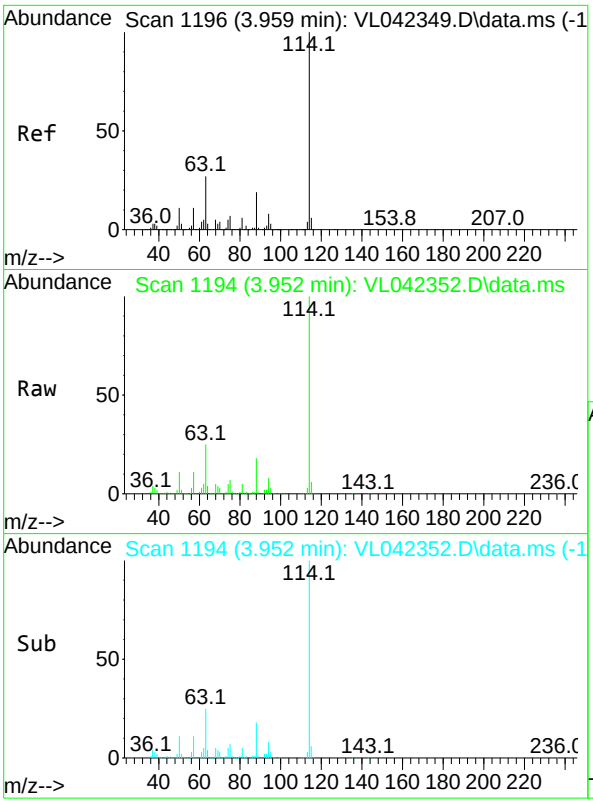


#32
1,1,1-Trichloroethane
Concen: 0.516 ppbv
RT: 3.370 min Scan# 1014
Delta R.T. 0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

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

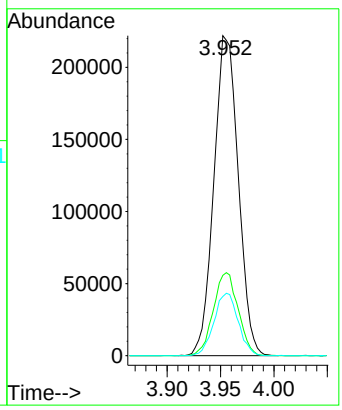




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.952 min Scan# 1
Delta R.T. -0.006 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion:114 Resp: 35313

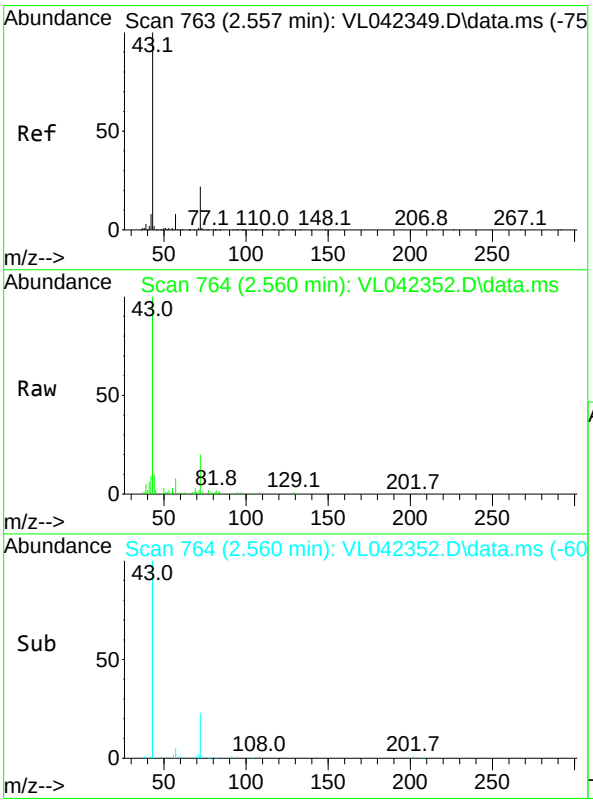
Ion	Ratio	Lower	Upper
114	100		
63	26.3	21.8	32.6
88	19.4	15.5	23.3



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

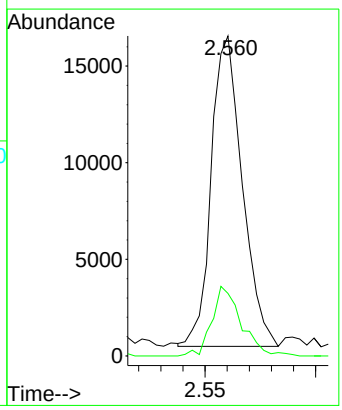
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

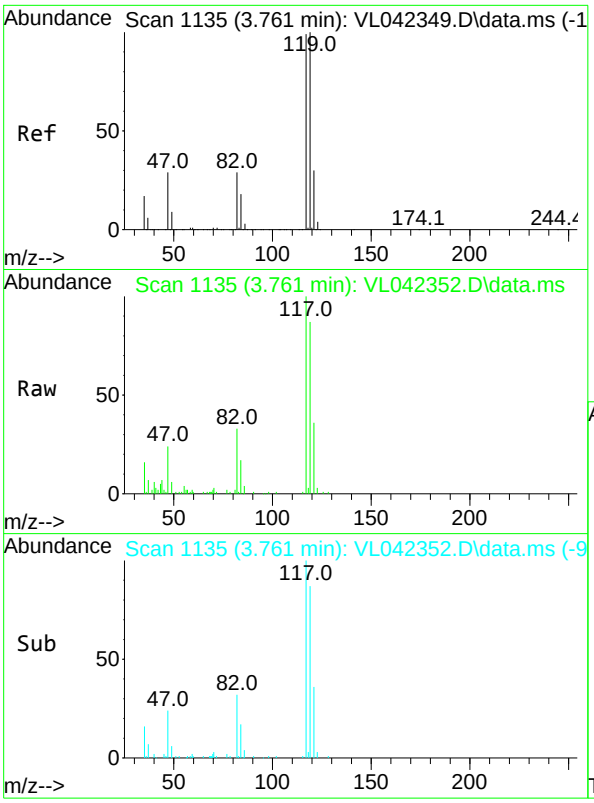


#34
2-Butanone
Concen: 0.560 ppbv
RT: 2.560 min Scan# 764
Delta R.T. 0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 43 Resp: 15640

Ion	Ratio	Lower	Upper
43	100		
72	21.3	18.2	27.2

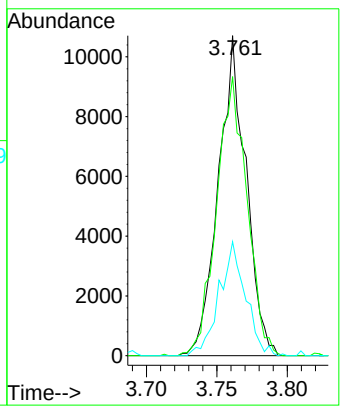




#35
Carbon Tetrachloride
Concen: 0.459 ppbv
RT: 3.761 min Scan# 1
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion:117 Resp: 1468

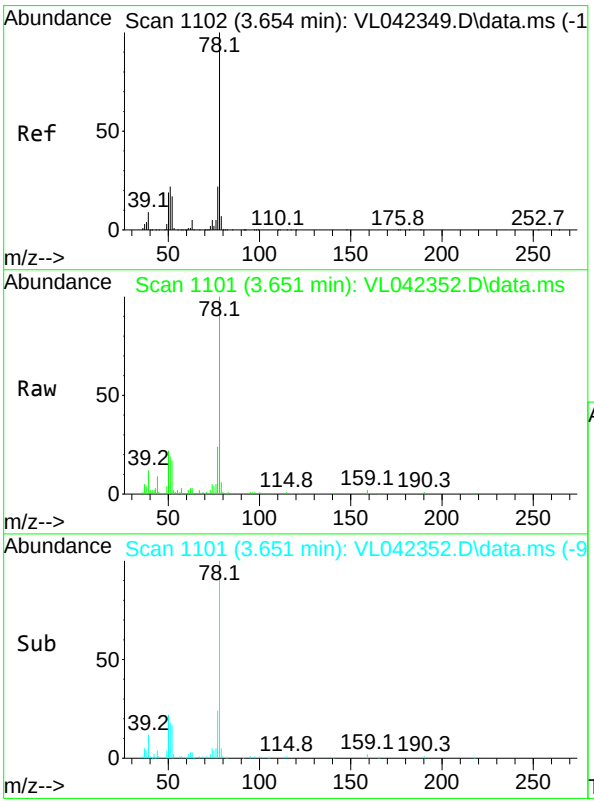
Ion	Ratio	Lower	Upper
117	100		
119	87.2	80.5	120.7
121	35.6	24.2	36.2



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

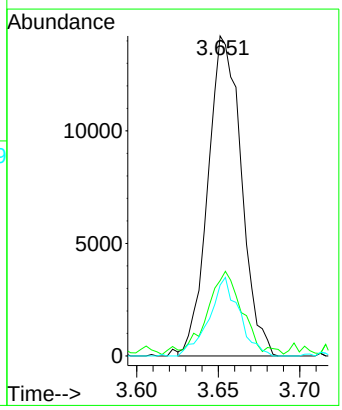
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

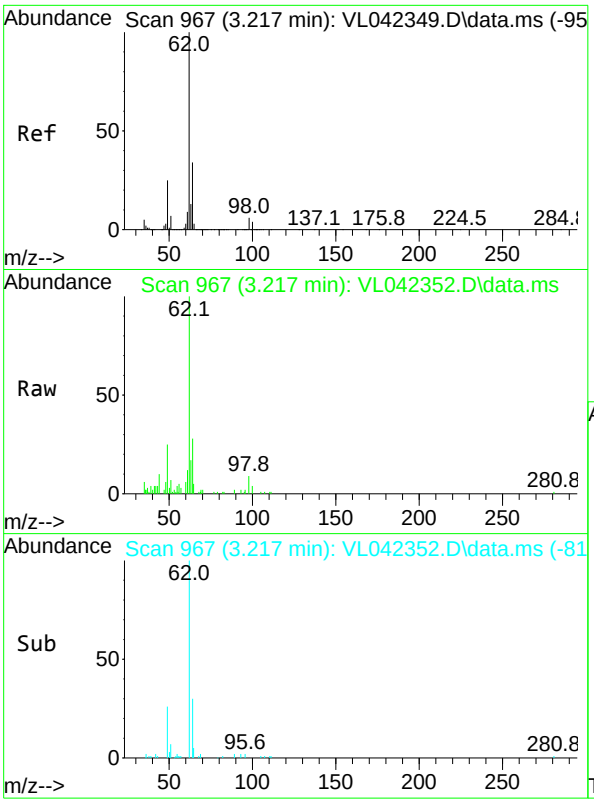


#36
Benzene
Concen: 0.531 ppbv
RT: 3.651 min Scan# 1101
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

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

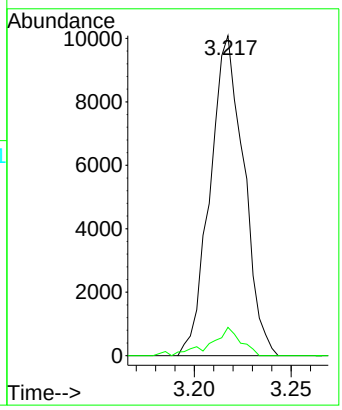
Tgt Ion: 62 Resp: 1219

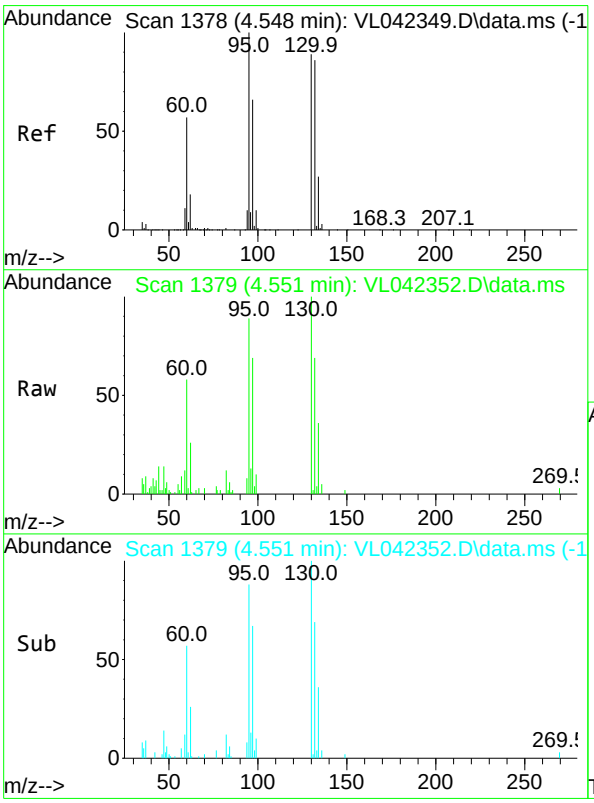
Ion	Ratio	Lower	Upper
62	100		
98	8.1	5.1	7.7#

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

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

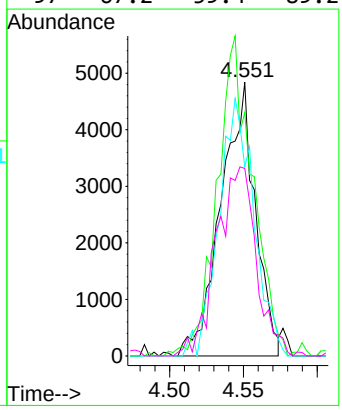


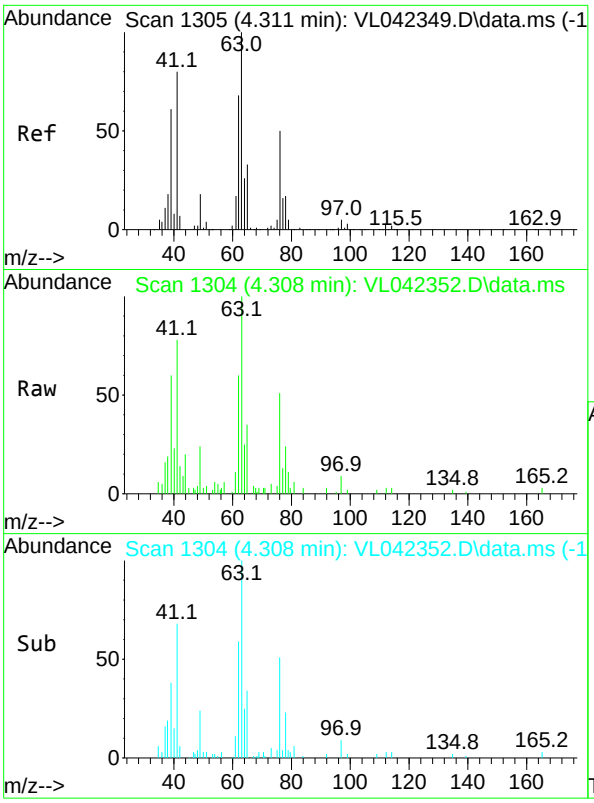


#38
Trichloroethene
Concen: 0.468 ppbv
RT: 4.551 min Scan# 1379
Delta R.T. 0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

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

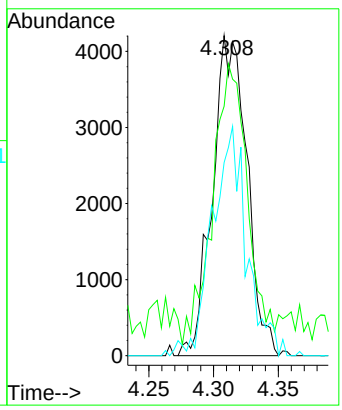




#39
1,2-Dichloropropane
Concen: 0.548 ppbv m
RT: 4.308 min Scan# 1
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 63 Resp: 779

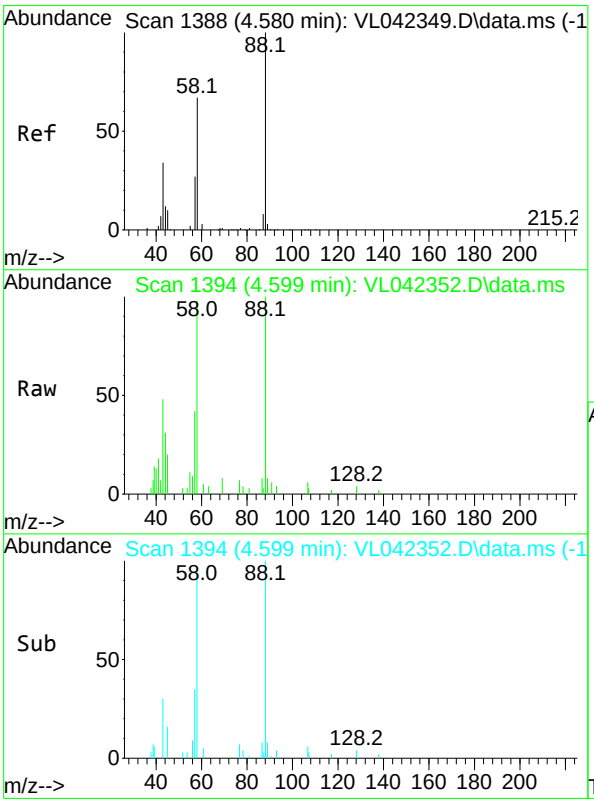
Ion	Ratio	Lower	Upper
63	100		
41	78.0	64.2	96.2
62	60.4	54.3	81.5



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

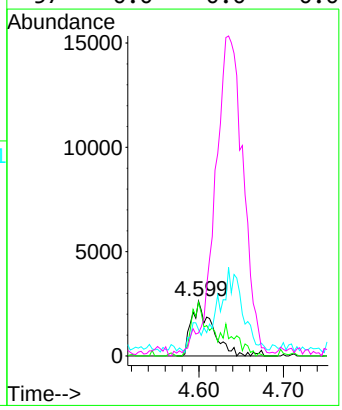
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

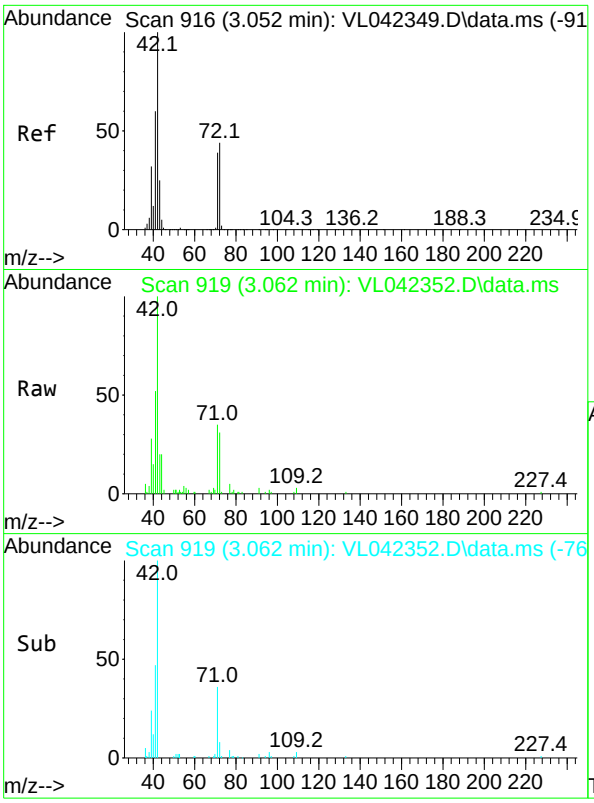


#40
1,4-Dioxane
Concen: 0.603 ppbv m
RT: 4.599 min Scan# 1394
Delta R.T. 0.019 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

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

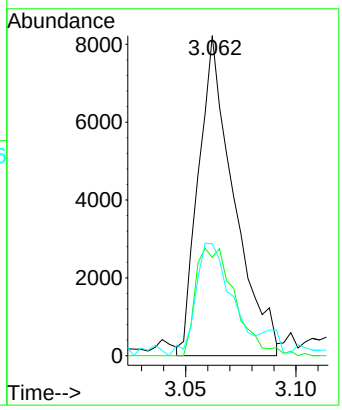




#41
Tetrahydrofuran
Concen: 0.567 ppbv m
RT: 3.062 min Scan# 91
Delta R.T. 0.010 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 42 Resp: 9144

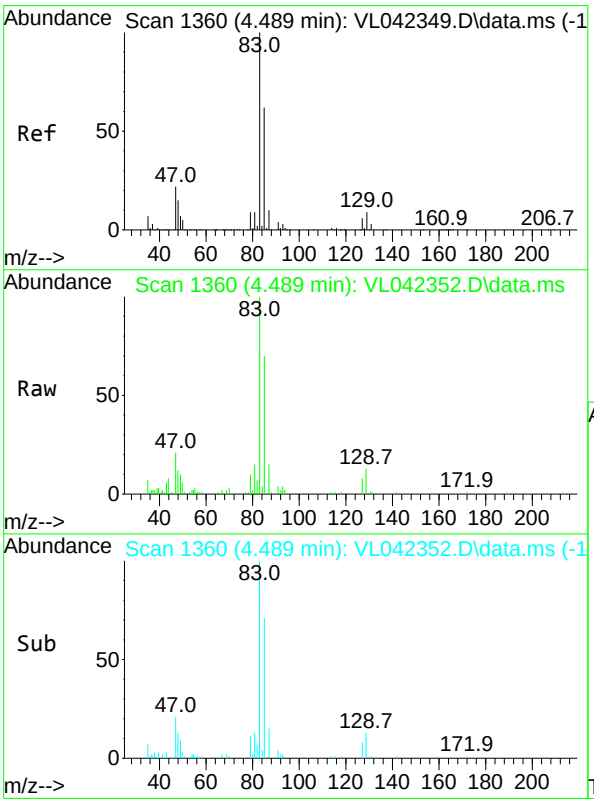
Ion	Ratio	Lower	Upper
42	100		
72	37.7	32.3	48.5
71	43.1	31.4	47.2



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

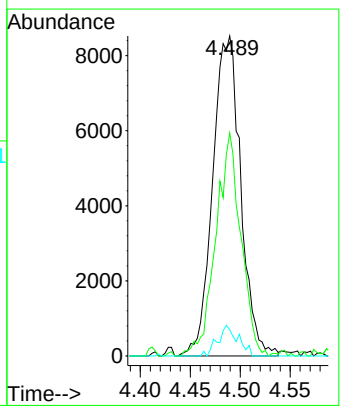
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

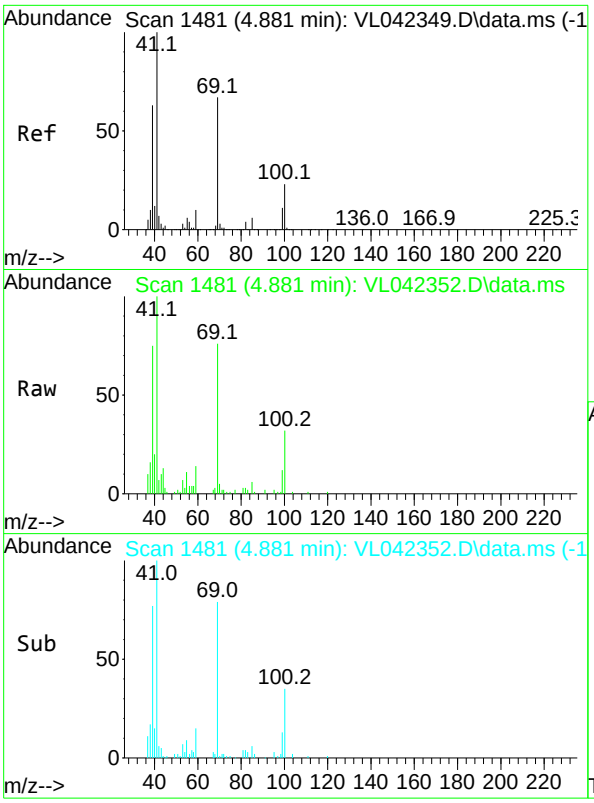


#42
Bromodichloromethane
Concen: 0.523 ppbv
RT: 4.489 min Scan# 1360
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

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

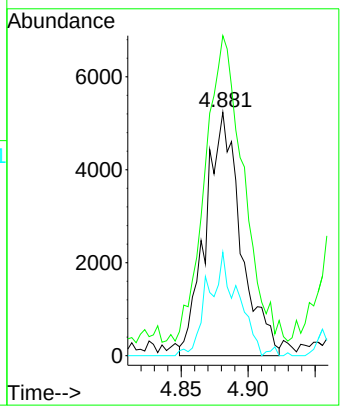
Tgt Ion: 69 Resp: 962(

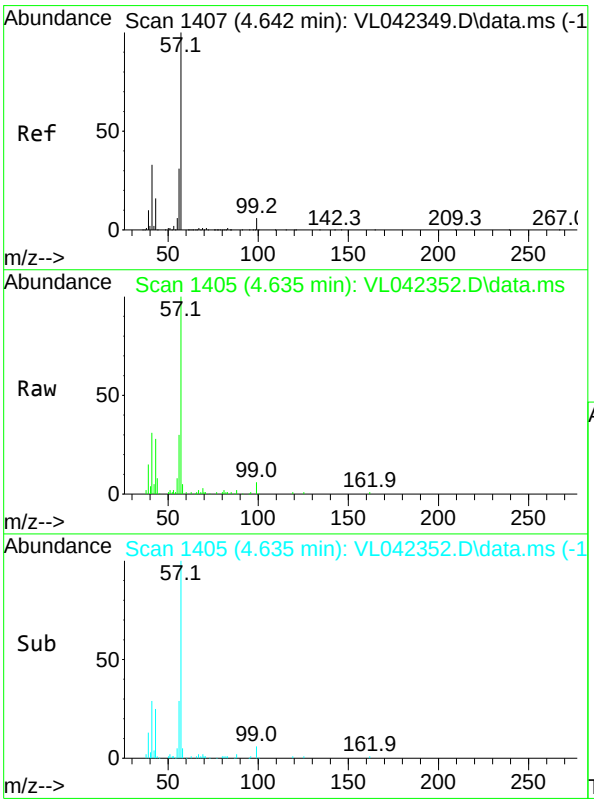
Ion	Ratio	Lower	Upper
69	100		
41	0.0	118.6	177.8#
100	0.0	28.2	42.2#

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

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

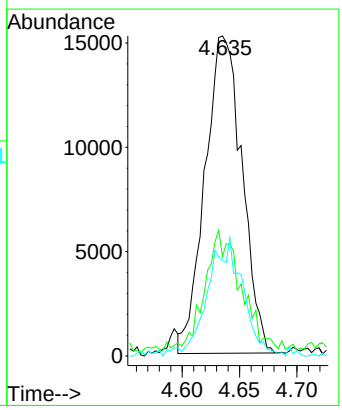


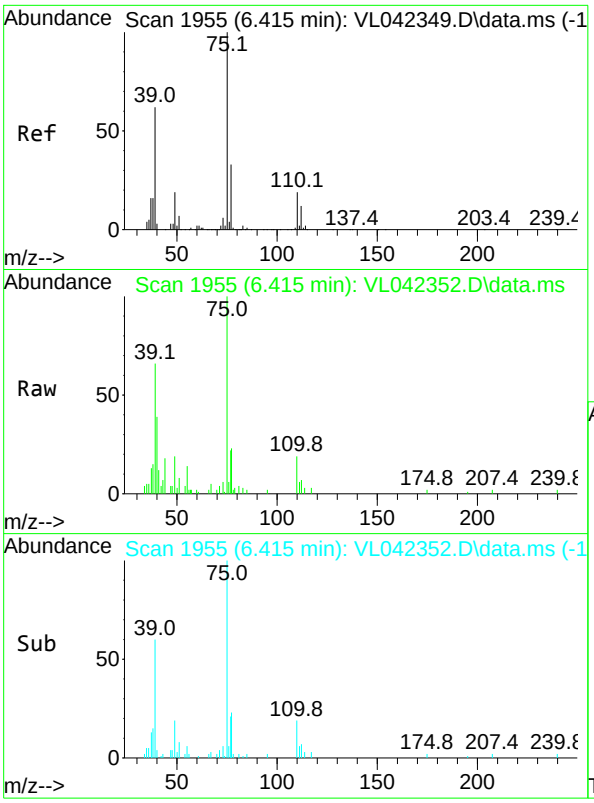


#44
2,2,4-Trimethylpentane
Concen: 0.519 ppbv
RT: 4.635 min Scan# 1405
Delta R.T. -0.006 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

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

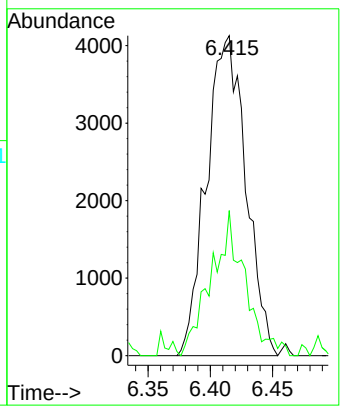
Tgt Ion: 75 Resp: 907

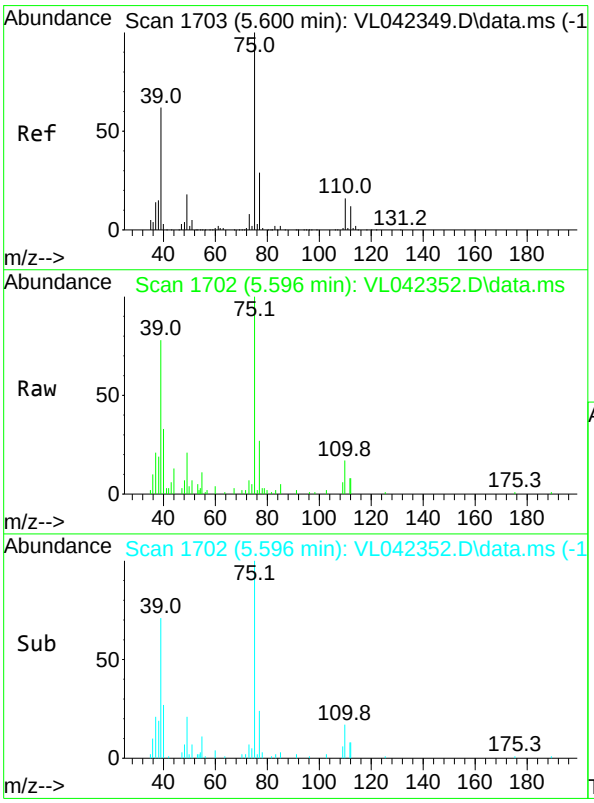
Ion	Ratio	Lower	Upper
75	100		
77	23.1	27.0	40.6#

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

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

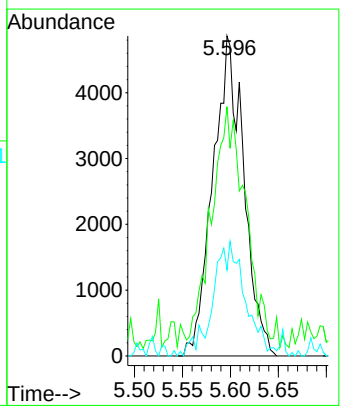


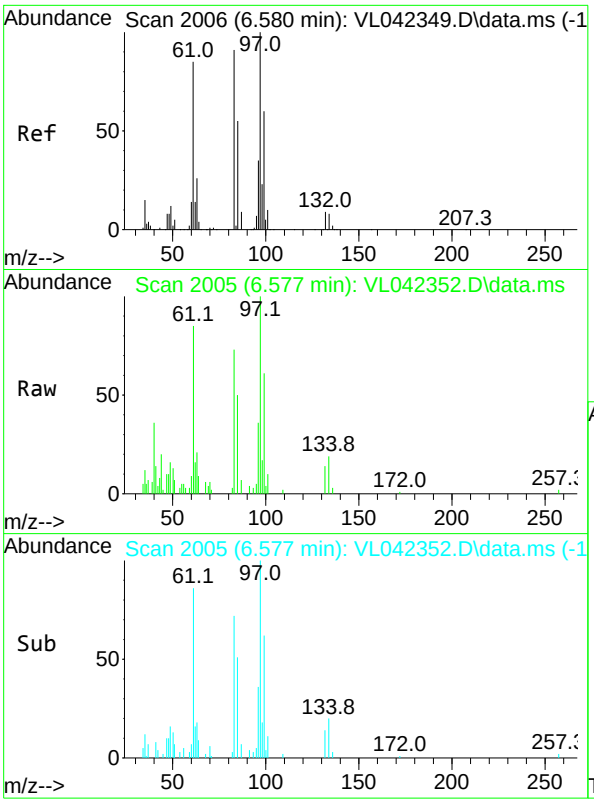


#46
cis-1,3-Dichloropropene
Concen: 0.505 ppbv m
RT: 5.596 min Scan# 1702
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

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

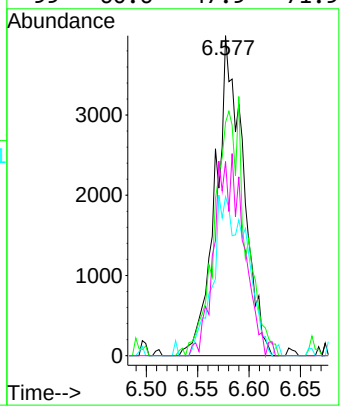




#47
1,1,2-Trichloroethane
Concen: 0.516 ppbv m
RT: 6.577 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 97 Resp: 746

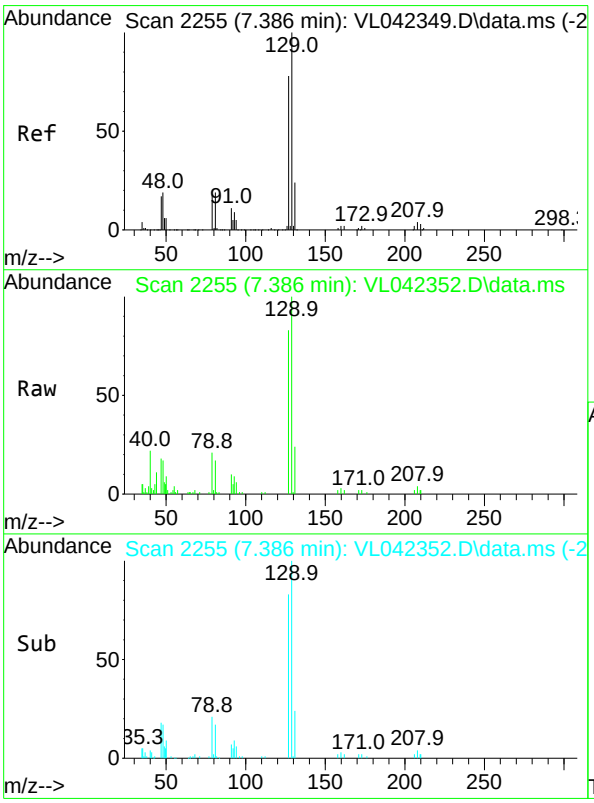
Ion	Ratio	Lower	Upper
97	100		
83	72.9	72.8	109.2
85	49.6	44.2	66.4
99	60.6	47.9	71.9



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

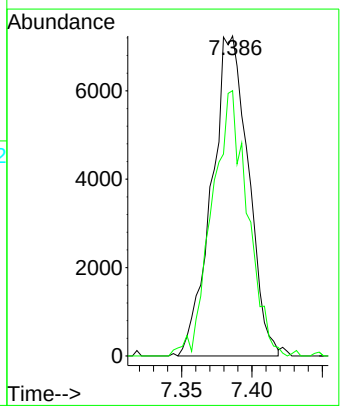
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

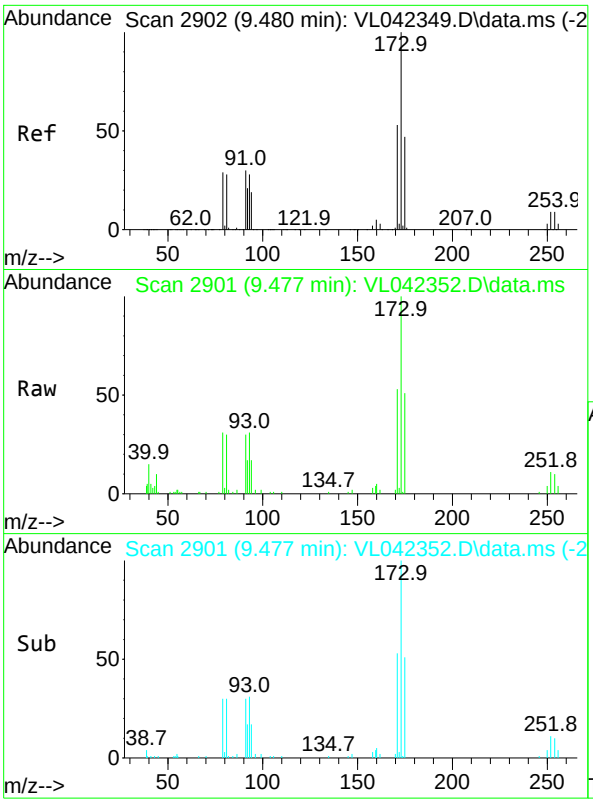


#48
Dibromochloromethane
Concen: 0.514 ppbv
RT: 7.386 min Scan# 2255
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion:129 Resp: 13122

Ion	Ratio	Lower	Upper
129	100		
127	80.9	39.1	117.3

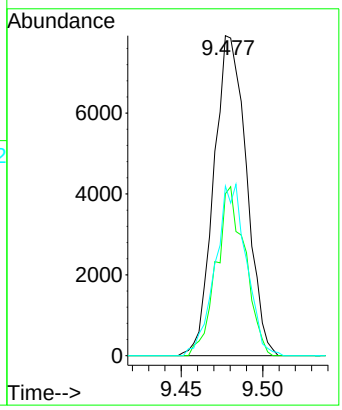




#49
Bromoform
Concen: 0.492 ppbv
RT: 9.477 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion:173 Resp: 1098

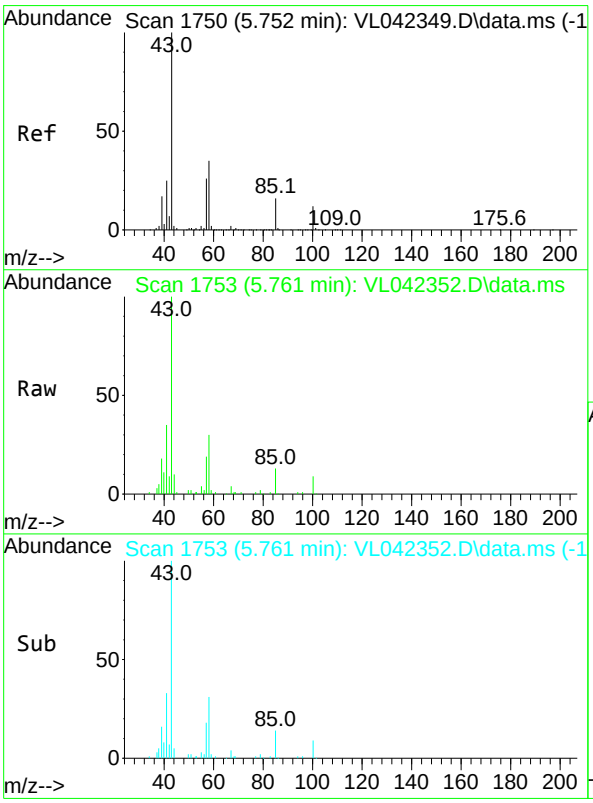
Ion	Ratio	Lower	Upper
173	100		
175	46.8	38.2	57.2
171	51.2	40.9	61.3



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

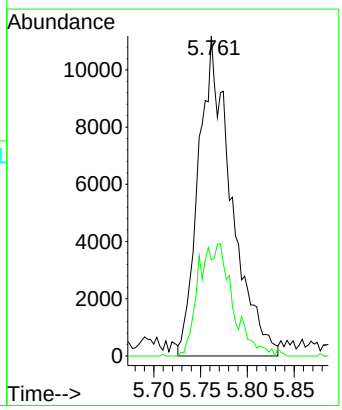
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

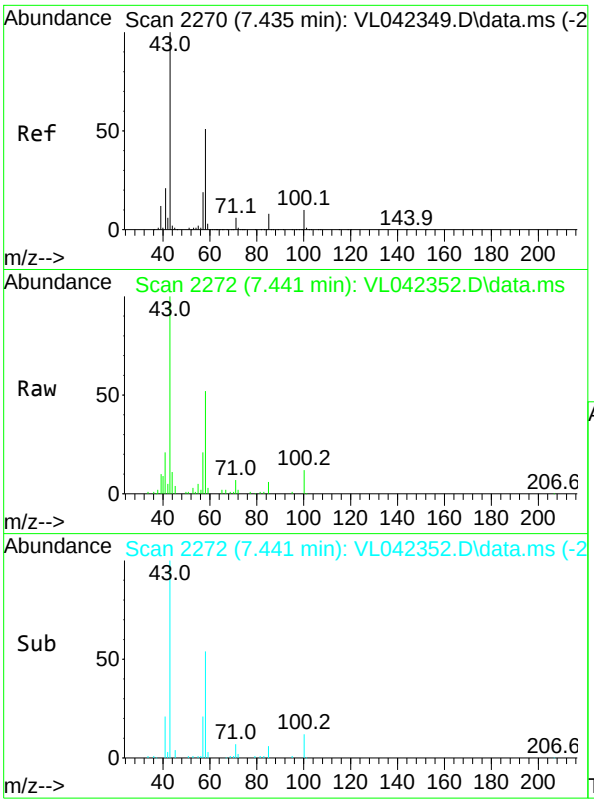


#50
4-Methyl-2-Pentanone
Concen: 0.585 ppbv m
RT: 5.761 min Scan# 1753
Delta R.T. 0.010 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 43 Resp: 27206

Ion	Ratio	Lower	Upper
43	100		
58	0.0	28.6	43.0#

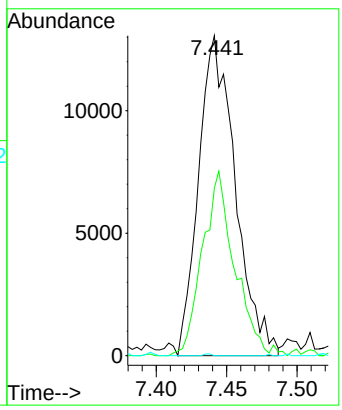




#51
2-Hexanone
Concen: 0.564 ppbv
RT: 7.441 min Scan# 2
Delta R.T. 0.006 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 43 Resp: 2368

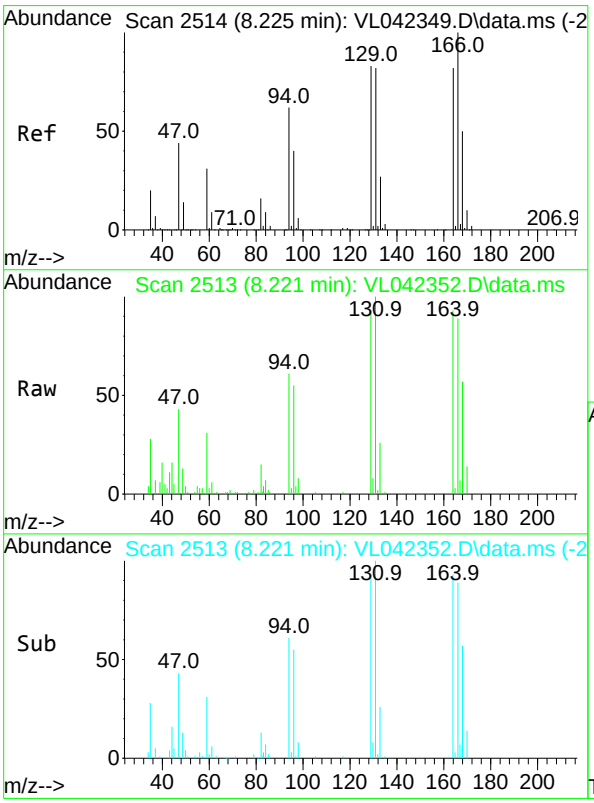
Ion	Ratio	Lower	Upper
43	100		
58	51.7	40.2	60.4
98	0.1	0.1	0.1



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

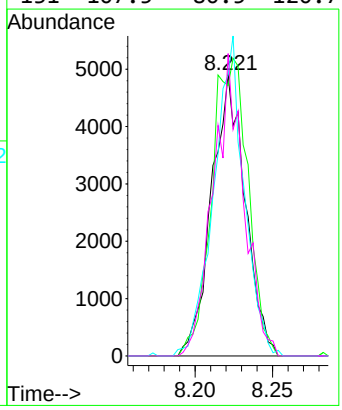
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

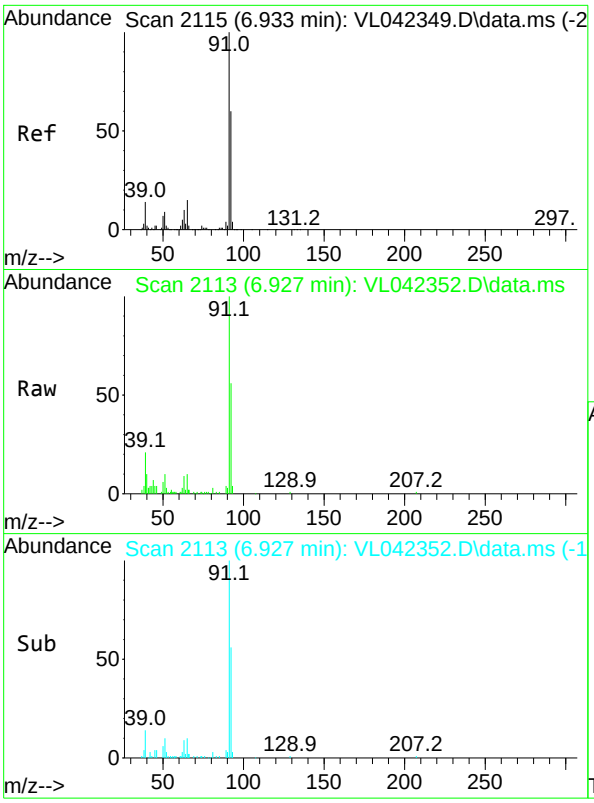


#52
Tetrachloroethene
Concen: 0.503 ppbv
RT: 8.221 min Scan# 2513
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

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

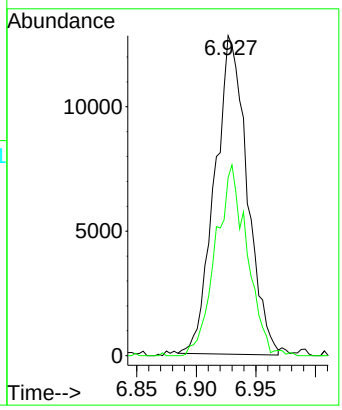




#53
Toluene
Concen: 0.529 ppbv
RT: 6.927 min Scan# 21
Delta R.T. -0.006 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 91 Resp: 2420

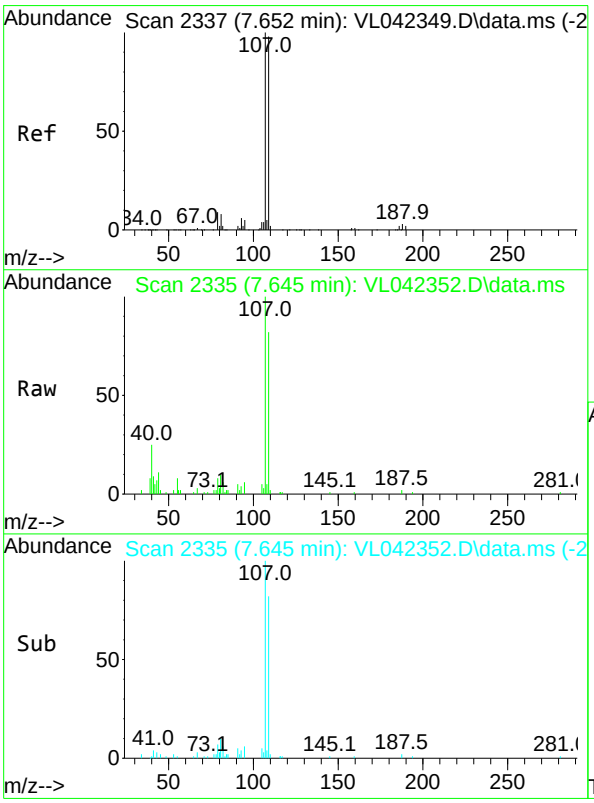
Ion	Ratio	Lower	Upper
91	100		
92	58.4	48.2	72.4



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

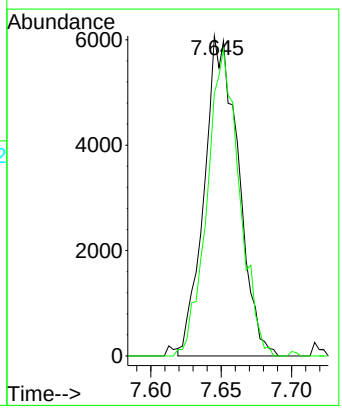
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

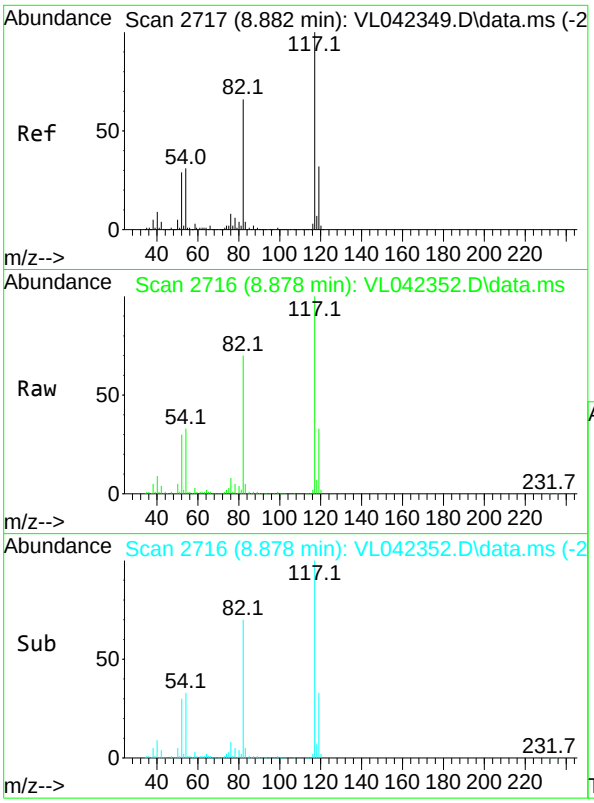


#54
1,2-Dibromoethane
Concen: 0.499 ppbv
RT: 7.645 min Scan# 2335
Delta R.T. -0.006 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion:107 Resp: 10282

Ion	Ratio	Lower	Upper
107	100		
109	82.1	78.2	117.4

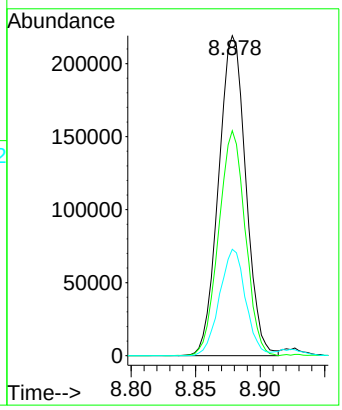




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.878 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion:117 Resp: 32164

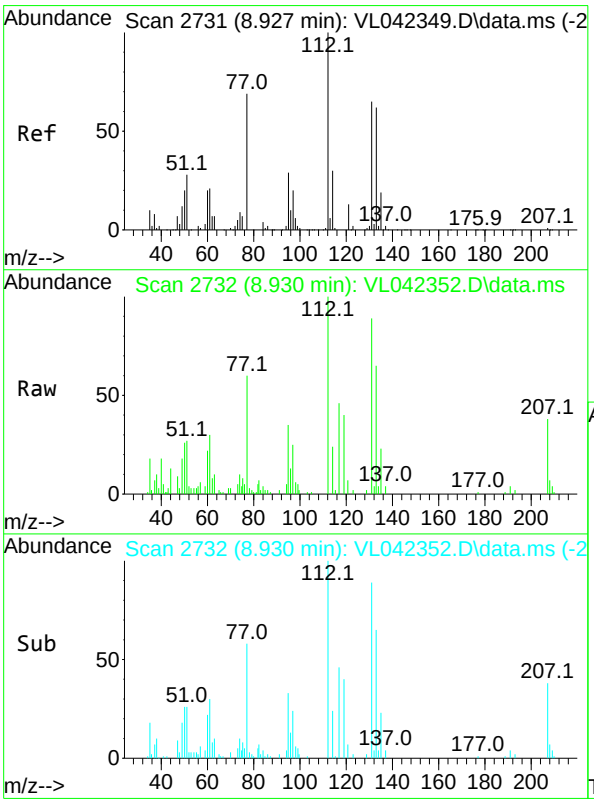
Ion	Ratio	Lower	Upper
117	100		
82	69.0	57.8	86.6
119	33.8	25.2	37.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

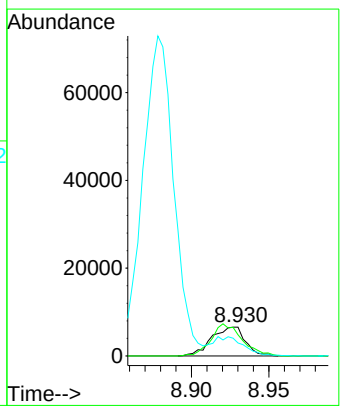
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

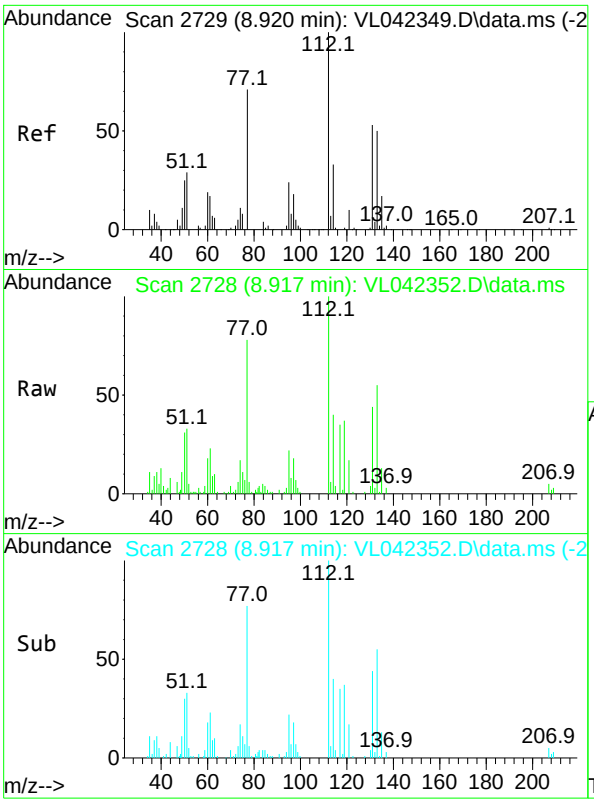


#56
1,1,1,2-Tetrachloroethane
Concen: 0.513 ppbv
RT: 8.930 min Scan# 2732
Delta R.T. 0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

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#

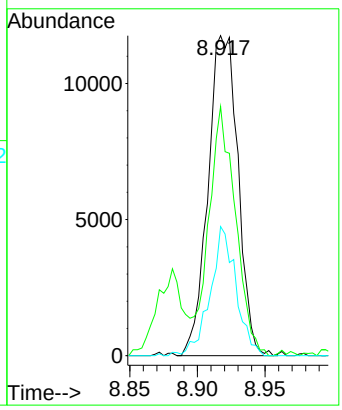




#57
Chlorobenzene
Concen: 0.543 ppbv m
RT: 8.917 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion:112 Resp: 1814

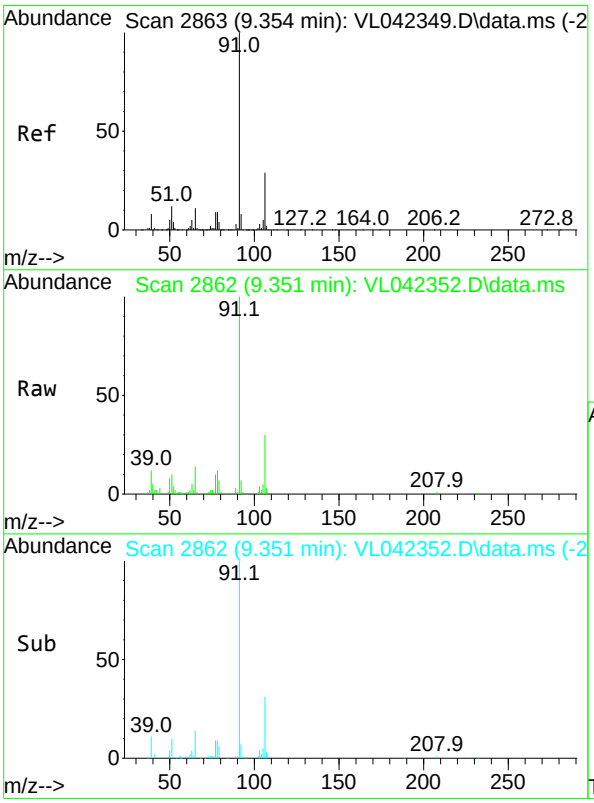
Ion	Ratio	Lower	Upper
112	100		
77	77.8	57.8	86.6
114	40.4	29.3	35.9



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

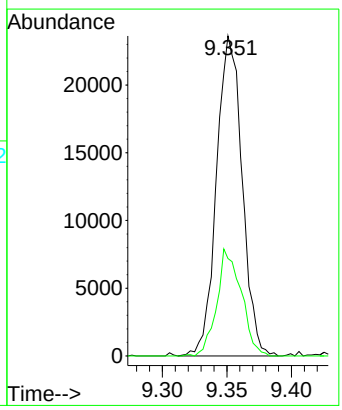
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

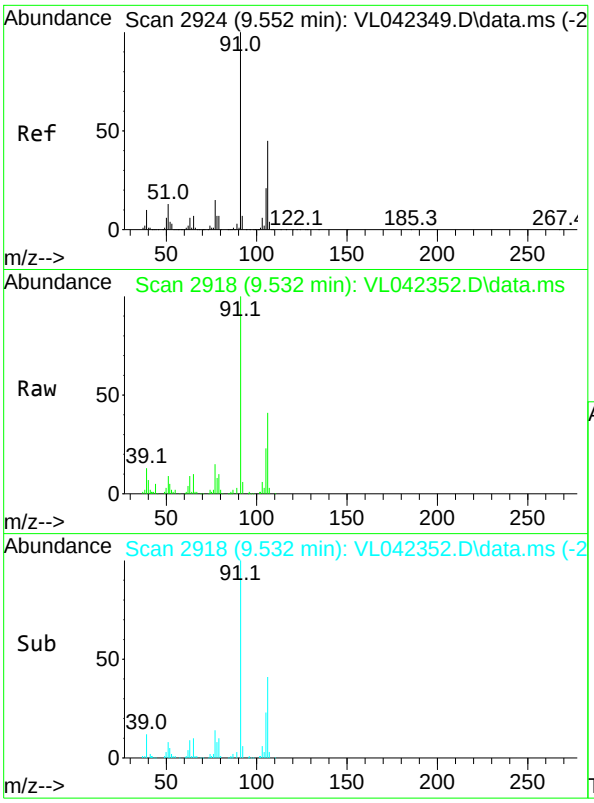


#58
Ethyl Benzene
Concen: 0.512 ppbv
RT: 9.351 min Scan# 2862
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 91 Resp: 32624

Ion	Ratio	Lower	Upper
91	100		
106	30.5	23.0	34.4

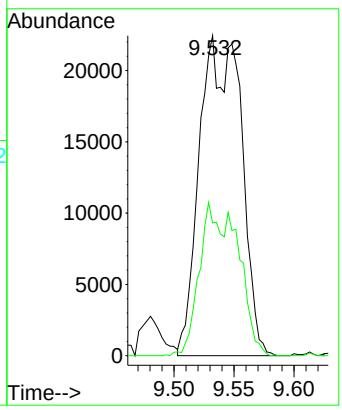




#59
m/p-Xylene
Concen: 1.053 ppbv m
RT: 9.532 min Scan# 2
Delta R.T. -0.019 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 91 Resp: 5419

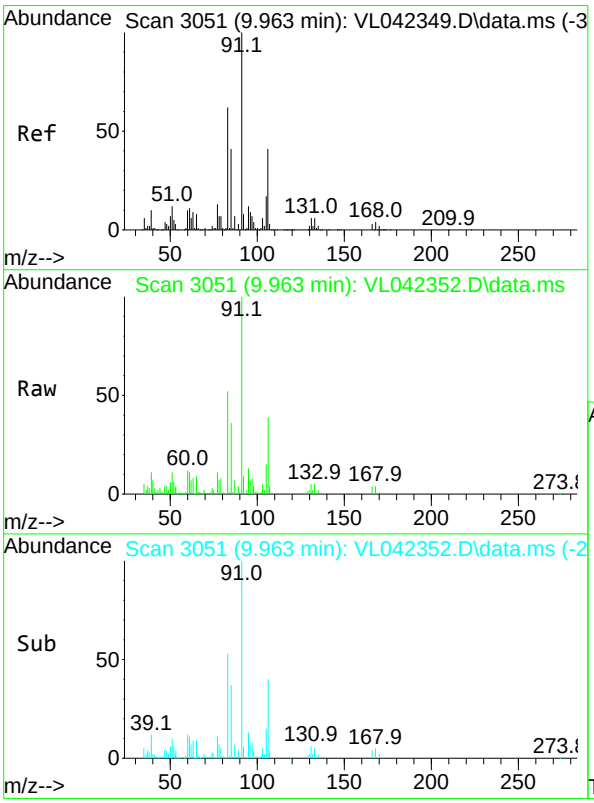
Ion	Ratio	Lower	Upper
91	100		
106	0.0	35.4	53.2



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

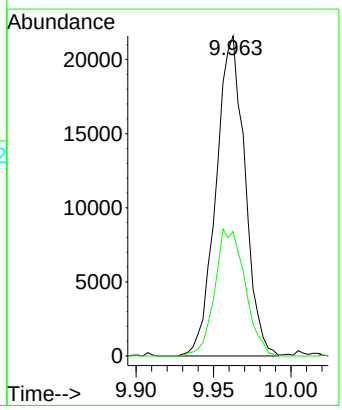
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

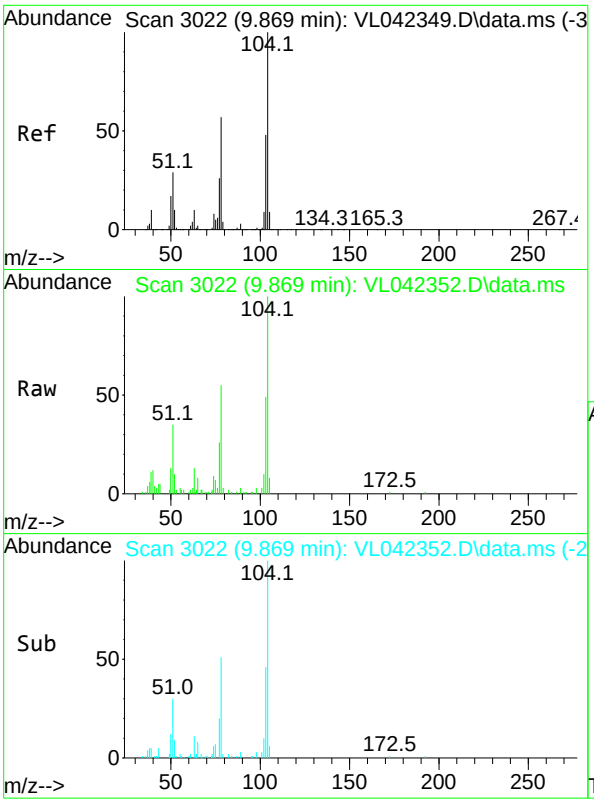


#60
o-Xylene
Concen: 0.541 ppbv
RT: 9.963 min Scan# 3051
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

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

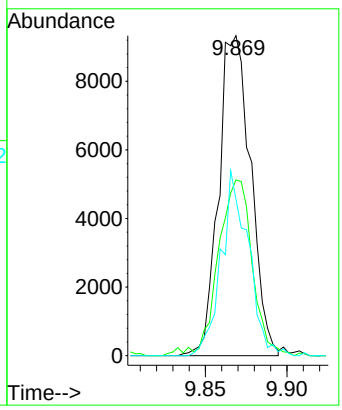
Tgt Ion:104 Resp: 1273

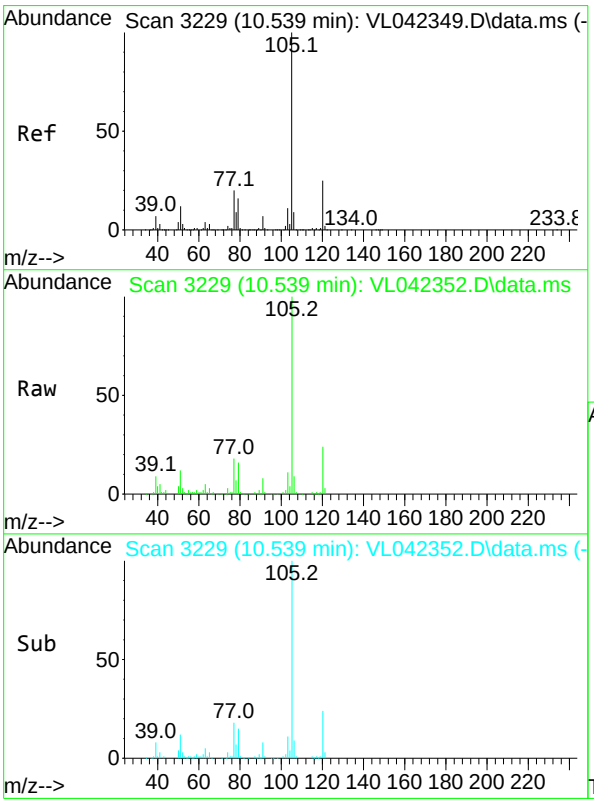
Ion	Ratio	Lower	Upper
104	100		
78	58.6	44.6	66.8
103	49.2	37.4	56.0

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

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

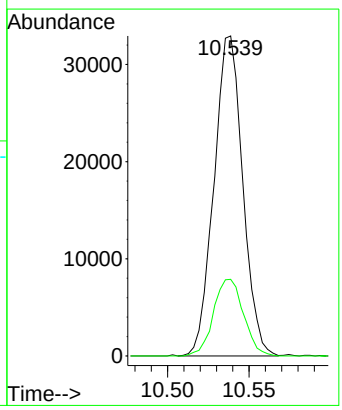


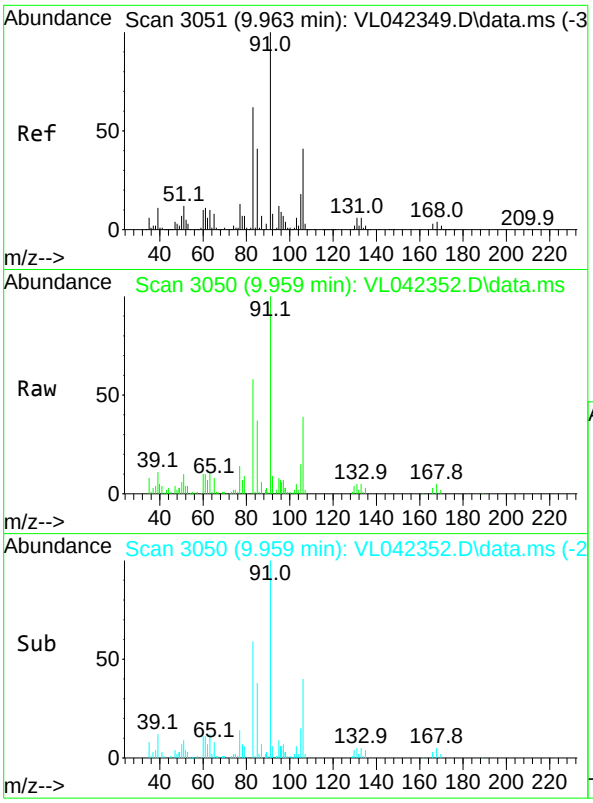


#62
Isopropylbenzene
Concen: 0.533 ppbv
RT: 10.539 min Scan# 3229
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

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

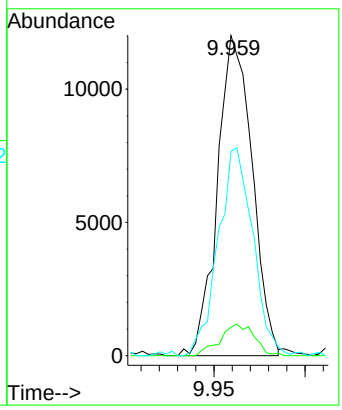
Tgt Ion: 83 Resp: 1592

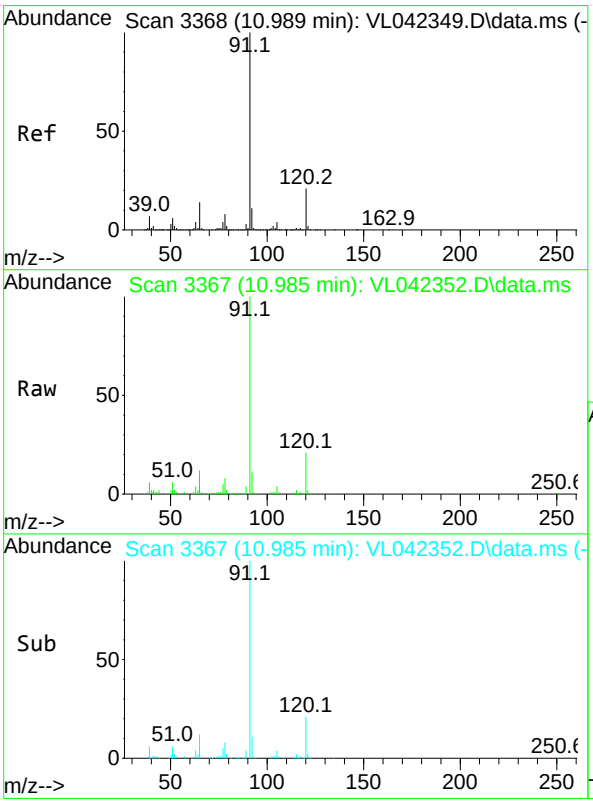
Ion	Ratio	Lower	Upper
83	100		
131	9.8	4.5	13.7
85	65.6	32.4	97.0

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

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

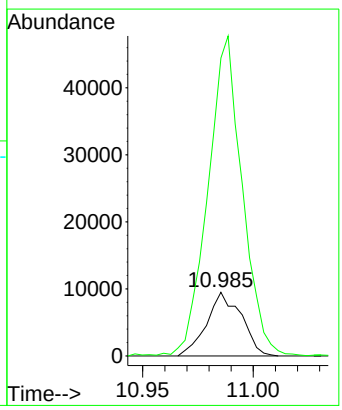


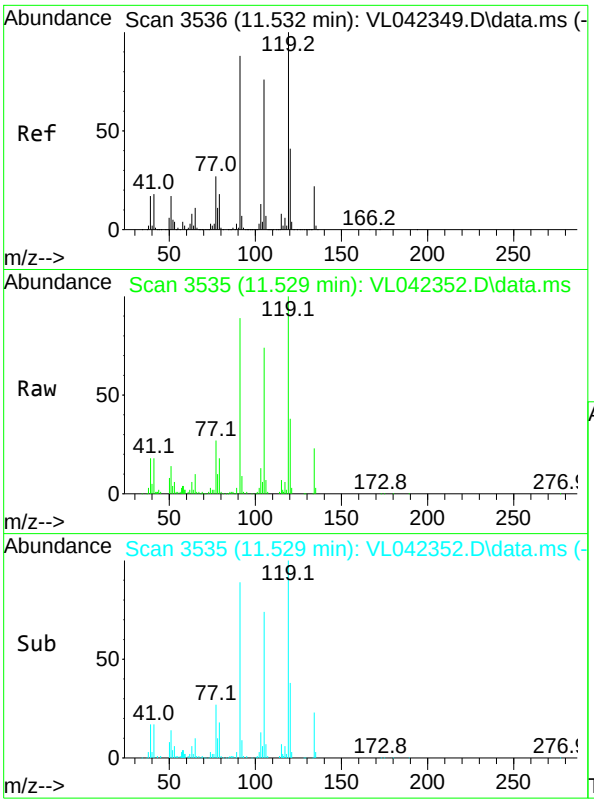


#64
n-propylbenzene
Concen: 0.544 ppbv
RT: 10.985 min Scan# 3367
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion:120 Resp: 10369

Ion	Ratio	Lower	Upper
120	100		
91	499.6	392.4	588.6

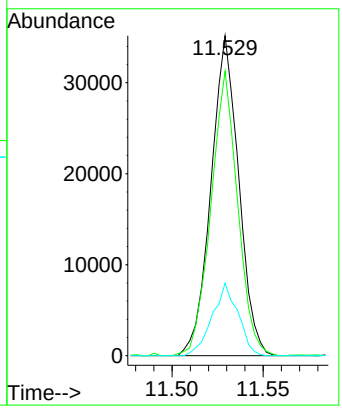




#65
tert-Butylbenzene
Concen: 0.535 ppbv
RT: 11.529 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion:119 Resp: 3729

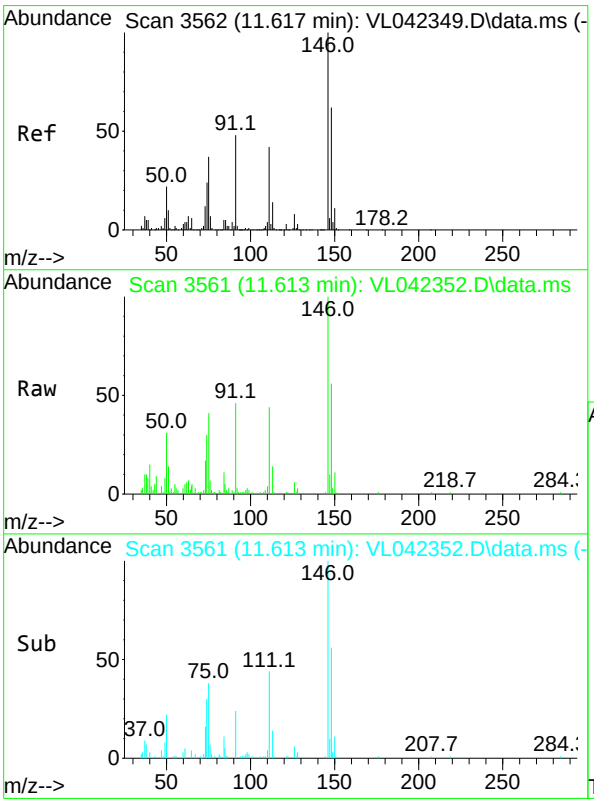
Ion	Ratio	Lower	Upper
119	100		
91	85.8	74.6	111.8
134	21.1	18.8	28.2



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

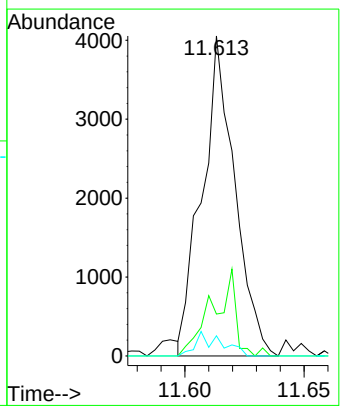
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

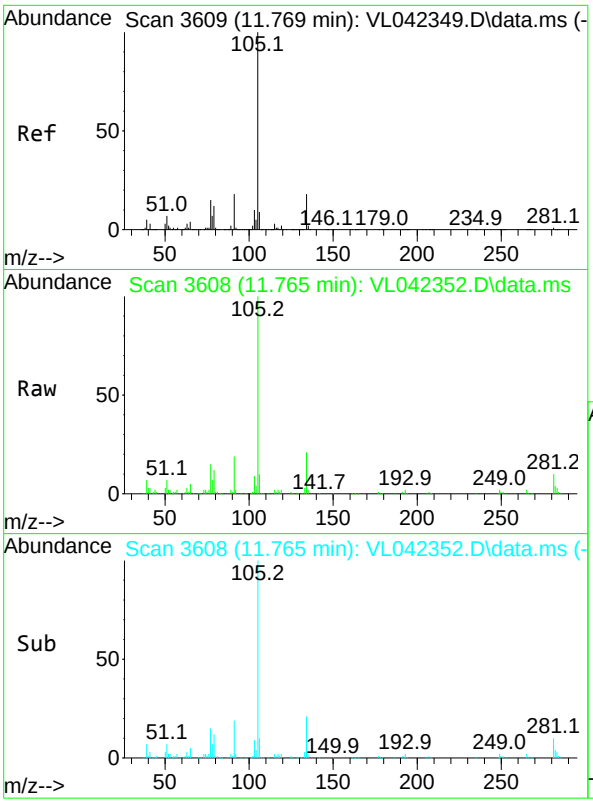


#66
Benzyl Chloride
Concen: 0.506 ppbv
RT: 11.613 min Scan# 3561
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

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

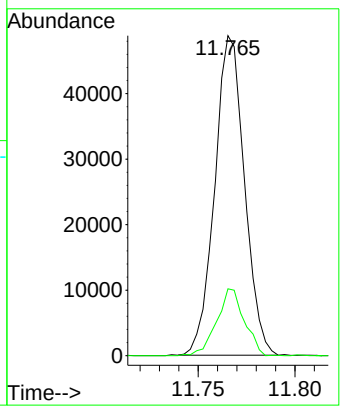




#67
sec-Butylbenzene
Concen: 0.537 ppbv
RT: 11.765 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion:105 Resp: 5213

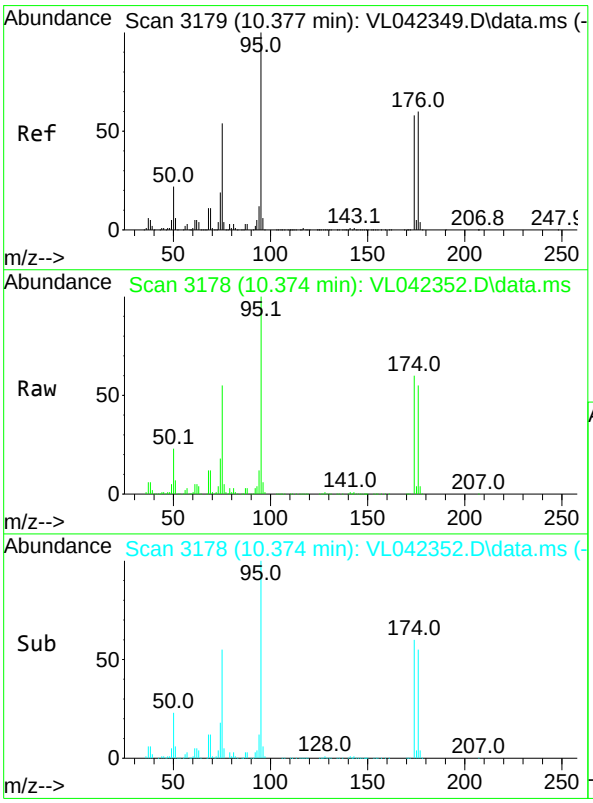
Ion	Ratio	Lower	Upper
105	100		
134	19.5	14.6	21.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

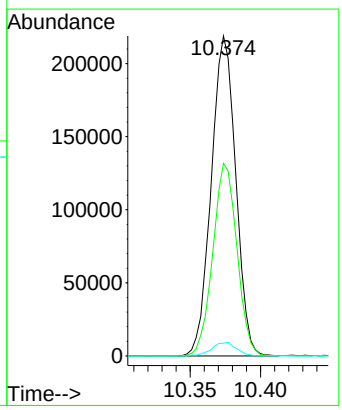
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

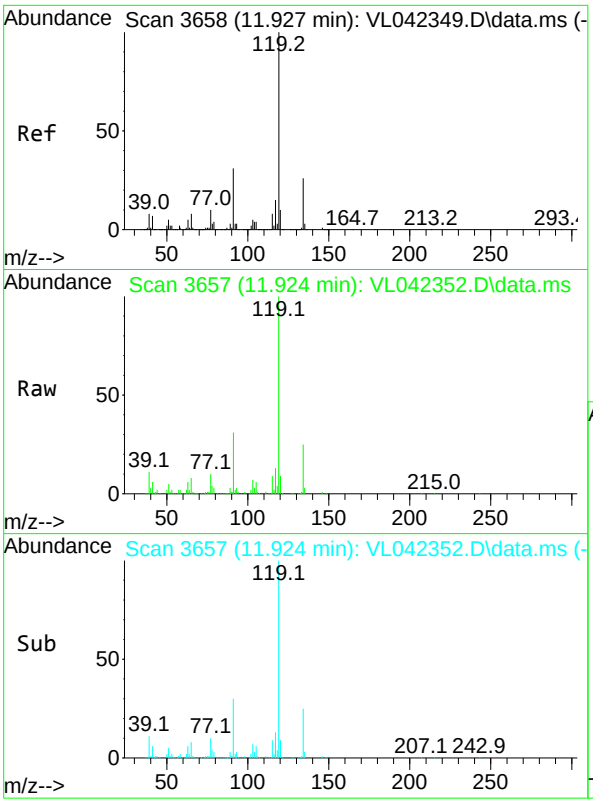


#68
1-Bromo-4-Fluorobenzene
Concen: 10.032 ppbv
RT: 10.374 min Scan# 3178
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

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

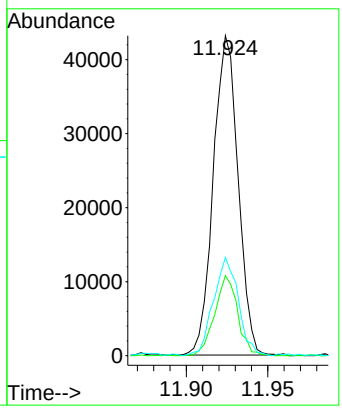




#69
p-Isopropyltoluene
Concen: 0.541 ppbv
RT: 11.924 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion:119 Resp: 4557

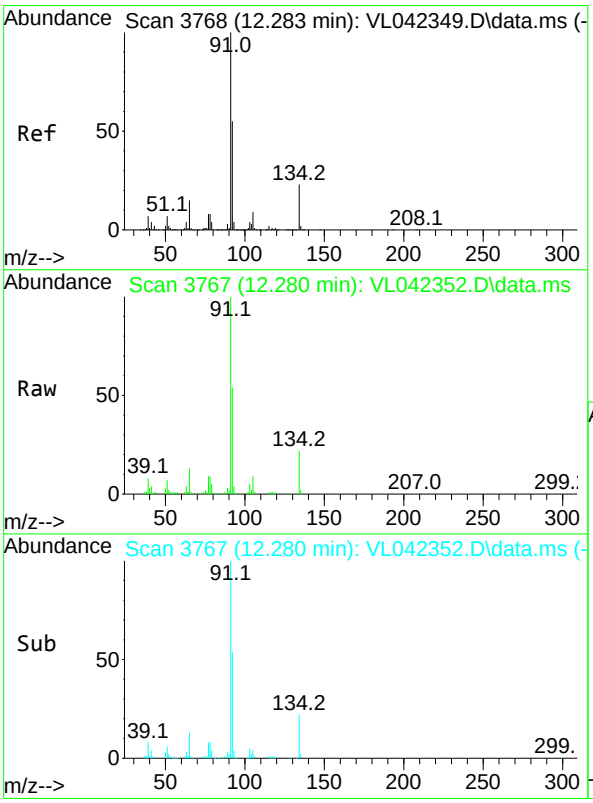
Ion	Ratio	Lower	Upper
119	100		
134	23.3	20.0	30.0
91	31.4	24.4	36.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

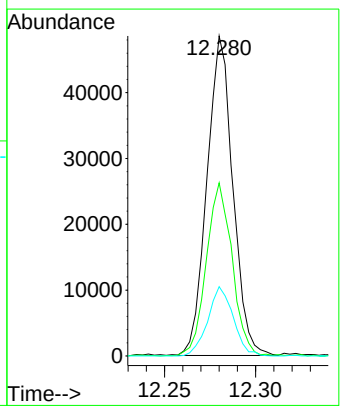
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

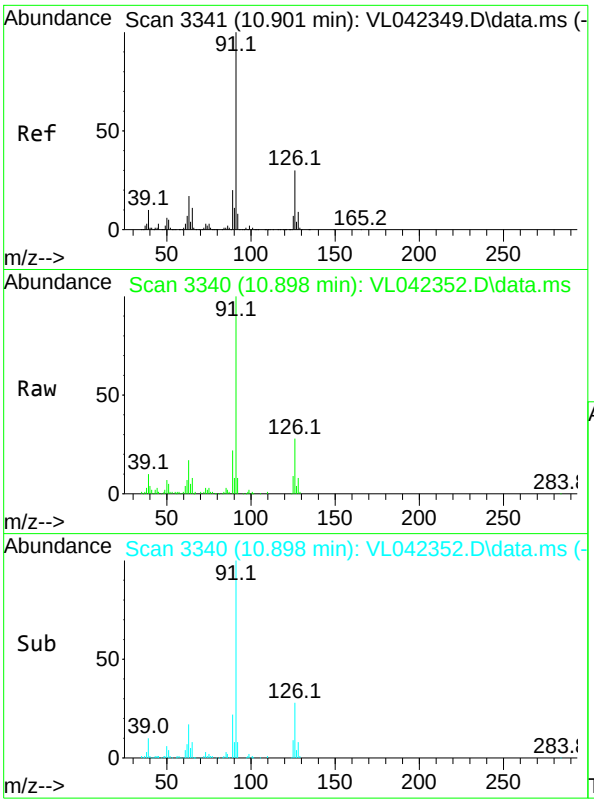


#70
n-Butylbenzene
Concen: 0.547 ppbv
RT: 12.280 min Scan# 3767
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

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

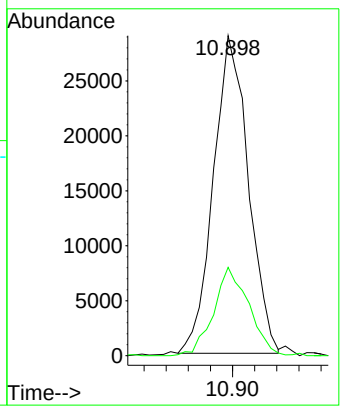




#71
2-Chlorotoluene
Concen: 0.533 ppbv
RT: 10.898 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 91 Resp: 3170

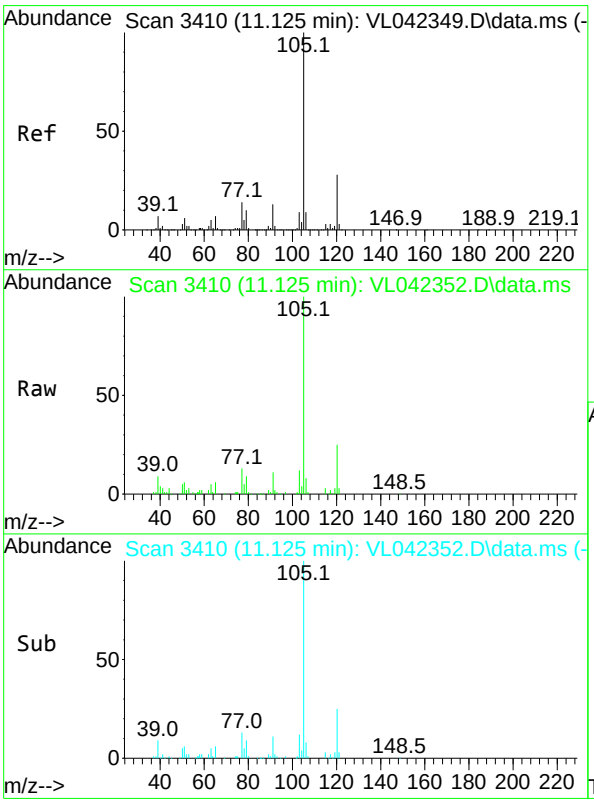
Ion	Ratio	Lower	Upper
91	100		
126	28.3	11.4	45.4



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

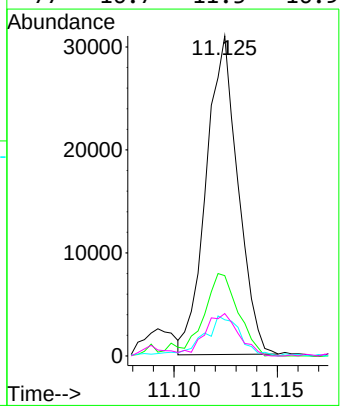
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

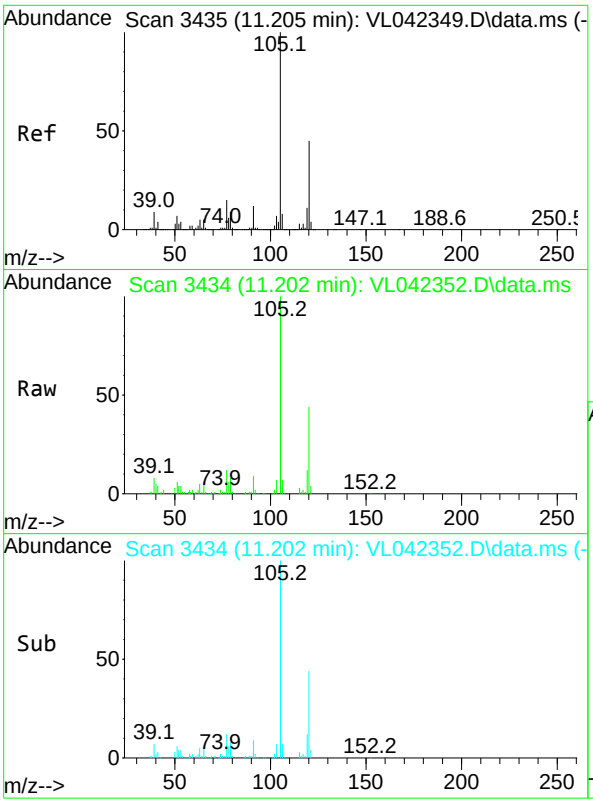


#72
4-Ethyltoluene
Concen: 0.523 ppbv
RT: 11.125 min Scan# 3410
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

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

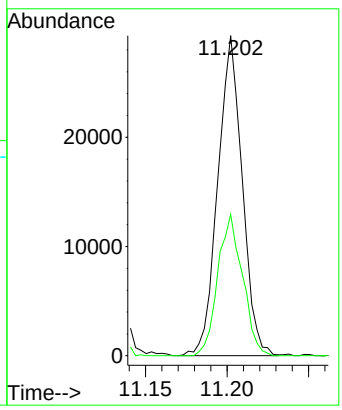




#73
1,3,5-Trimethylbenzene
Concen: 0.546 ppbv
RT: 11.202 min Scan# 34
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion:105 Resp: 3046

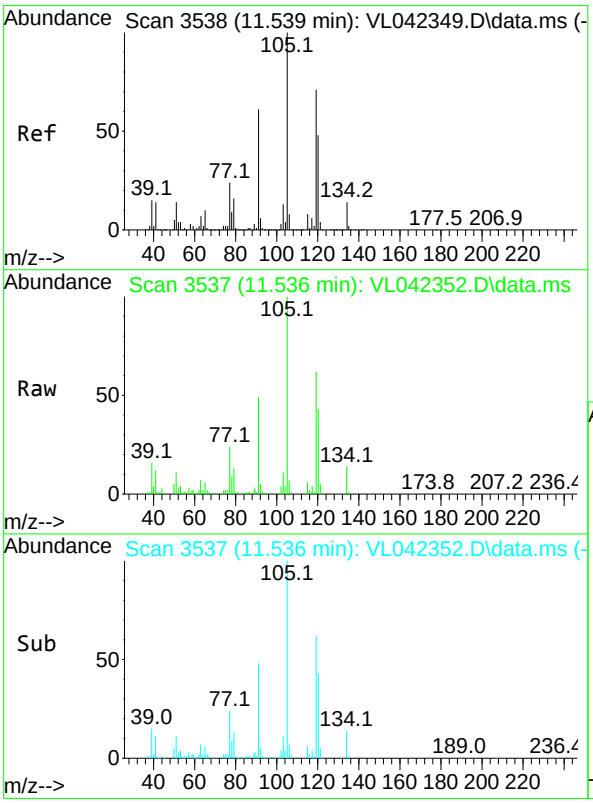
Ion	Ratio	Lower	Upper
105	100		
120	44.1	35.6	53.4



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

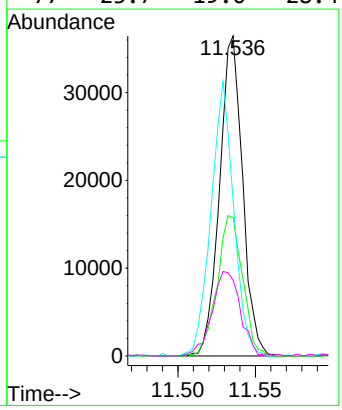
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

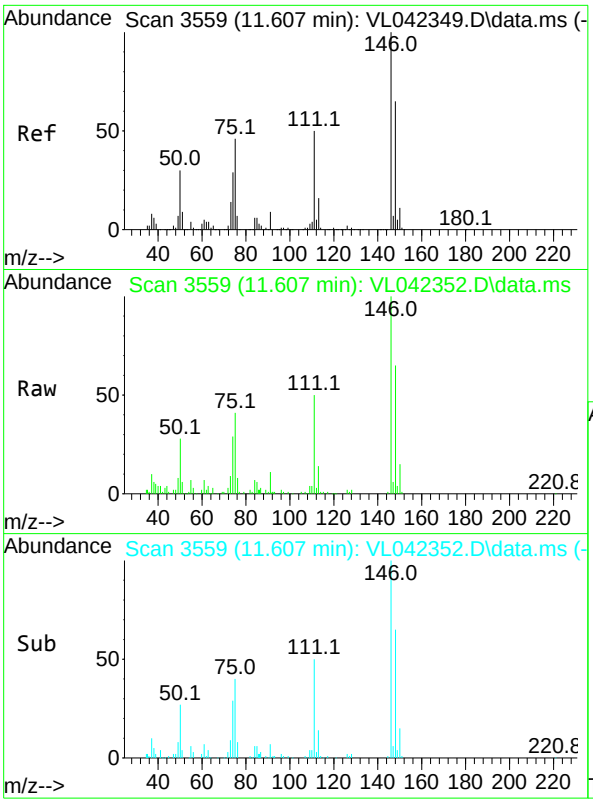


#74
1,2,4-Trimethylbenzene
Concen: 0.579 ppbv
RT: 11.536 min Scan# 3537
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

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

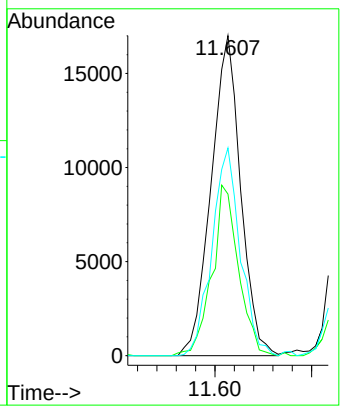




#75
1,3-Dichlorobenzene
Concen: 0.531 ppbv
RT: 11.607 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion:146 Resp: 1800

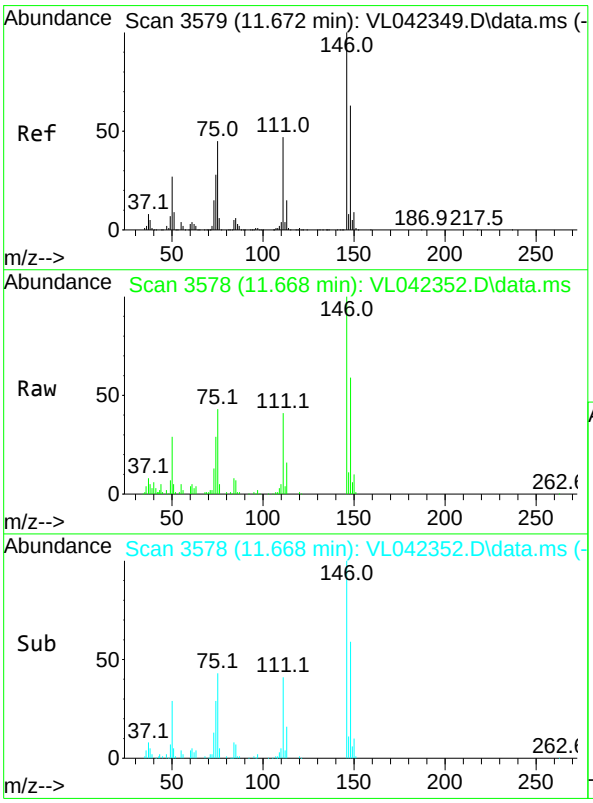
Ion	Ratio	Lower	Upper
146	100		
111	47.9	24.3	72.8
148	62.9	31.6	94.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

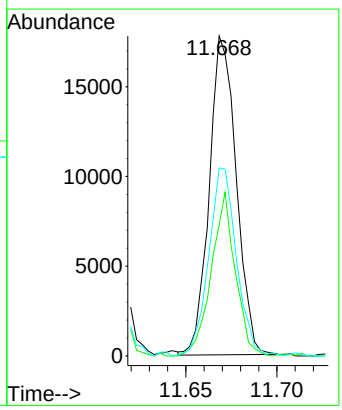
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

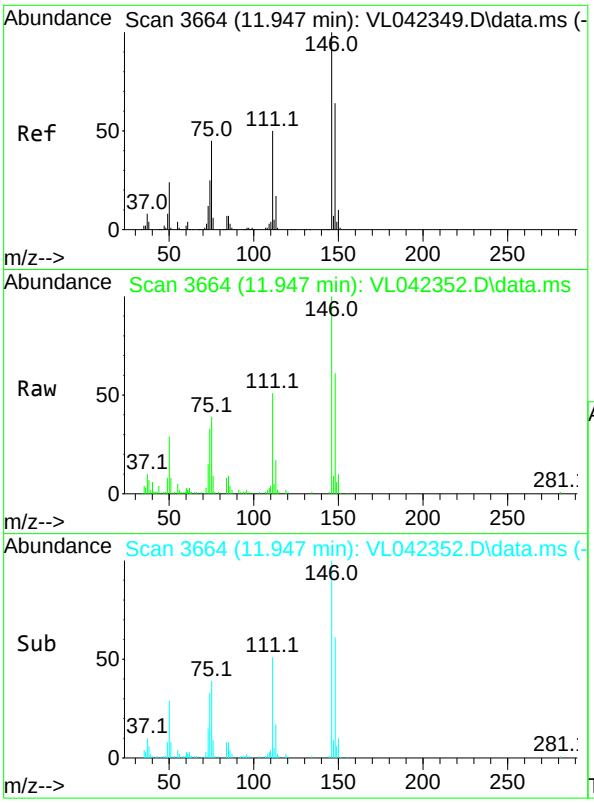


#76
1,4-Dichlorobenzene
Concen: 0.537 ppbv
RT: 11.668 min Scan# 3578
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

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

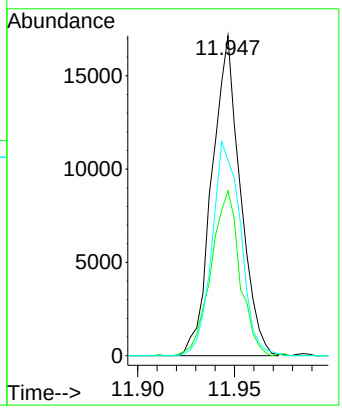




#77
1,2-Dichlorobenzene
Concen: 0.530 ppbv
RT: 11.947 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion:146 Resp: 1744

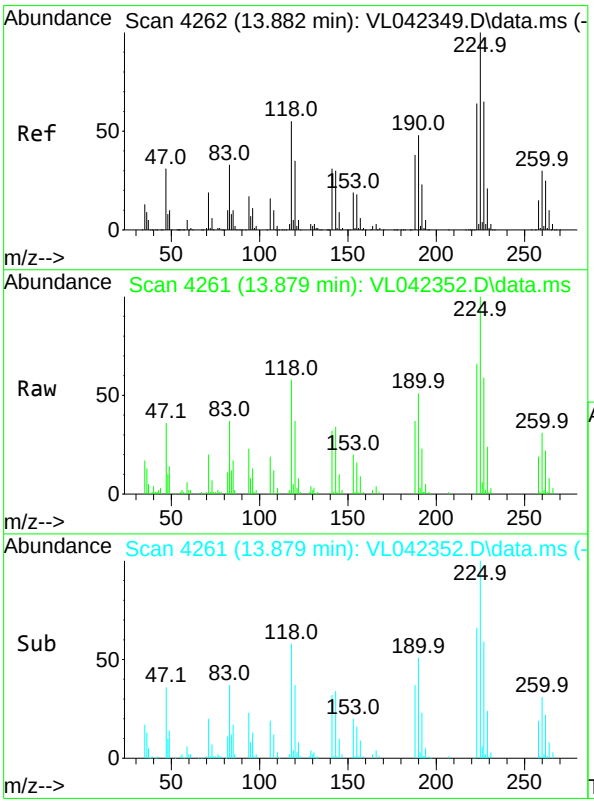
Ion	Ratio	Lower	Upper
146	100		
111	52.6	25.3	75.9
148	67.5	31.5	94.5



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

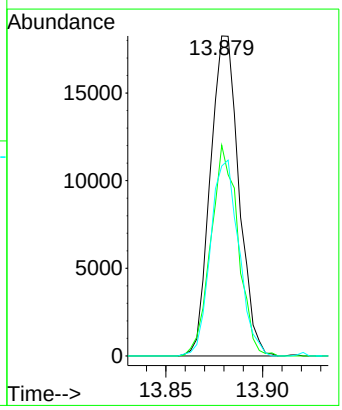
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

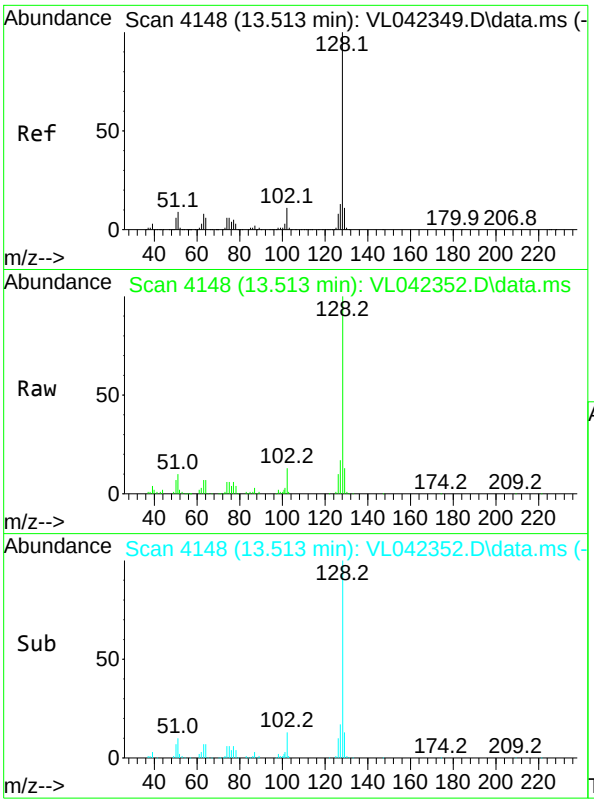


#78
Hexachloro-1,3-Butadiene
Concen: 0.562 ppbv
RT: 13.879 min Scan# 4261
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

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

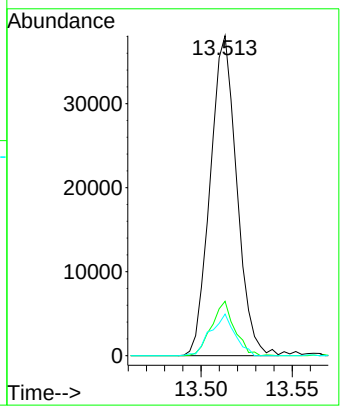




#79
Naphthalene
Concen: 0.494 ppbv
RT: 13.513 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion:128 Resp: 3852

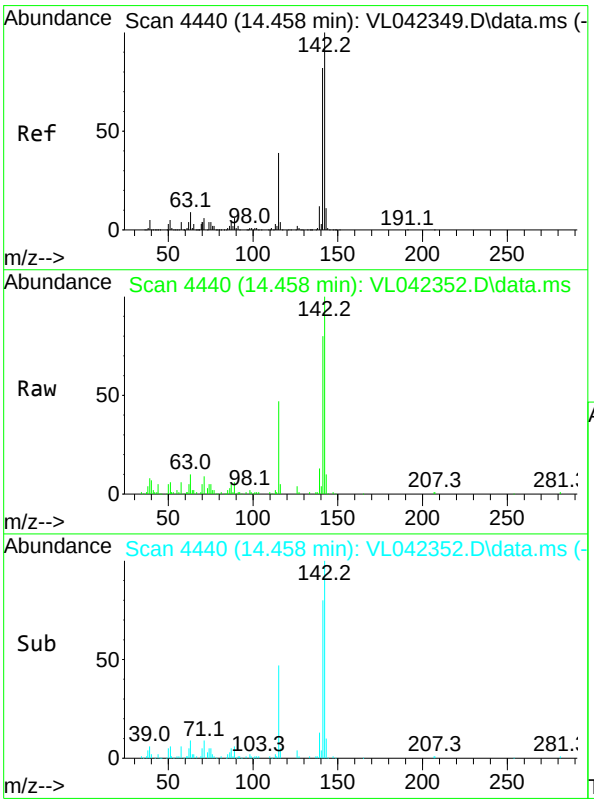
Ion	Ratio	Lower	Upper
128	100		
127	17.0	10.6	15.8#
129	13.0	8.6	12.8#



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

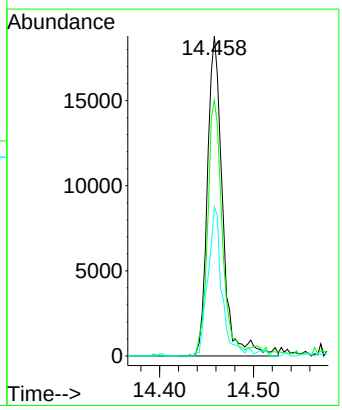
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

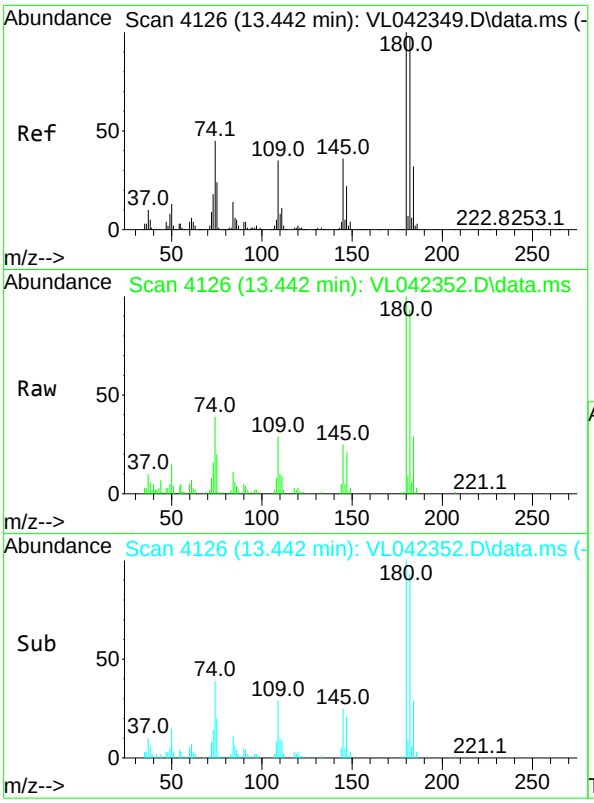


#80
Naphthalene,2-methyl-
Concen: 0.475 ppbv
RT: 14.458 min Scan# 4440
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

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

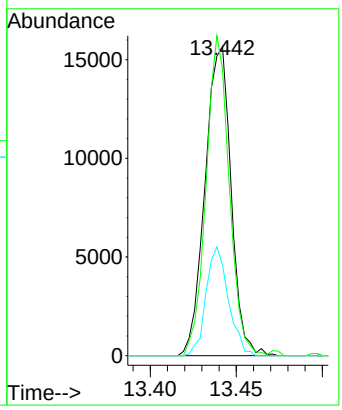




#81
1,2,4-Trichlorobenzene
Concen: 0.493 ppbv
RT: 13.442 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

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
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

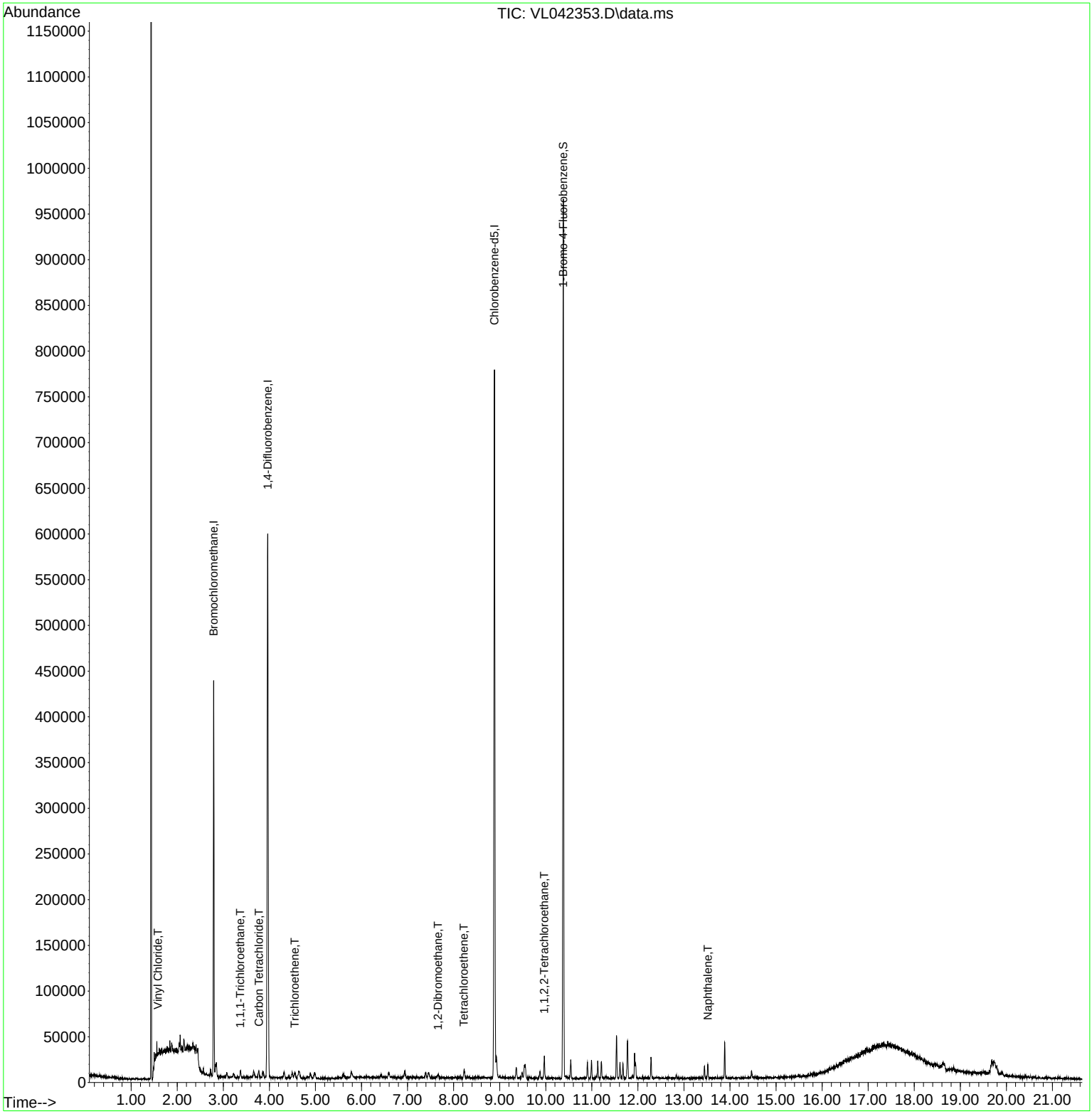
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042353.D
Acq On : 17 Apr 2025 11:50
Operator : SY/MD
Sample : VSTDICC0.1
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

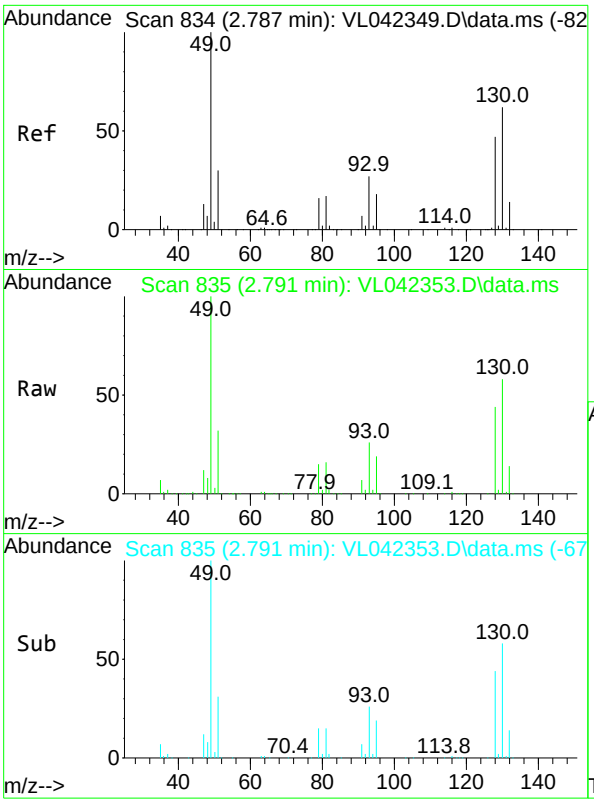
Quant Time: Apr 18 01:29:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Apr 18 01:24:29 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Manual Integrations APPROVED

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

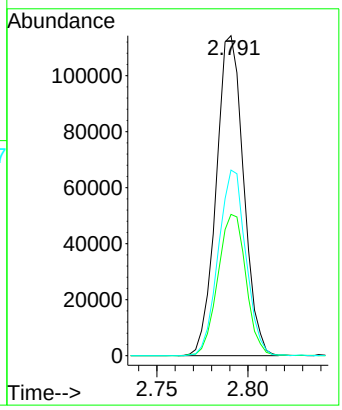




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.791 min Scan# 8
Delta R.T. 0.004 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Tgt Ion: 49 Resp: 11946

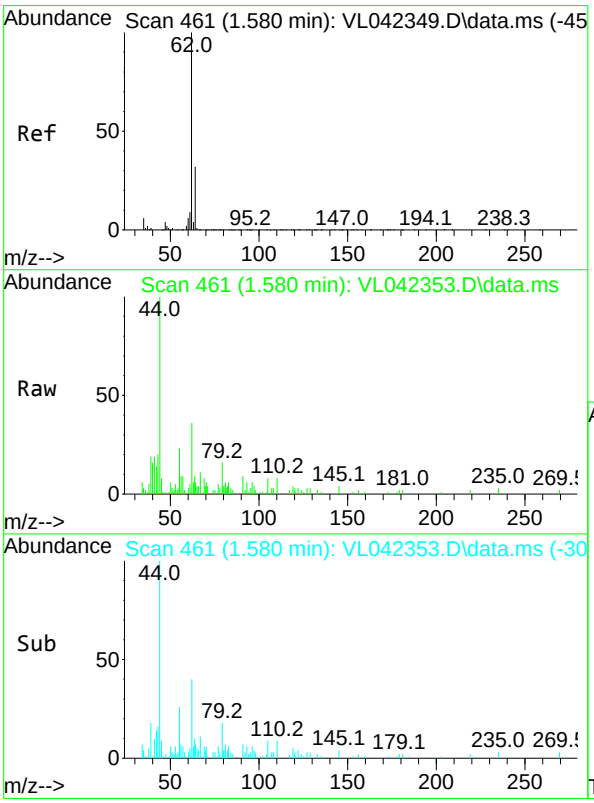
Ion	Ratio	Lower	Upper
49	100		
128	45.3	22.8	68.4
130	58.3	29.3	88.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Manual Integrations
APPROVED

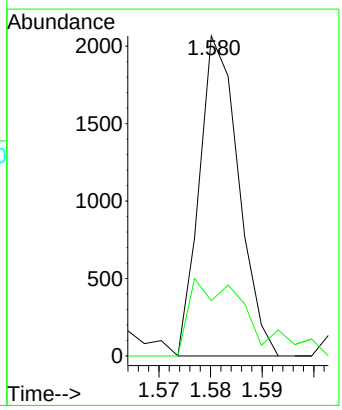
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

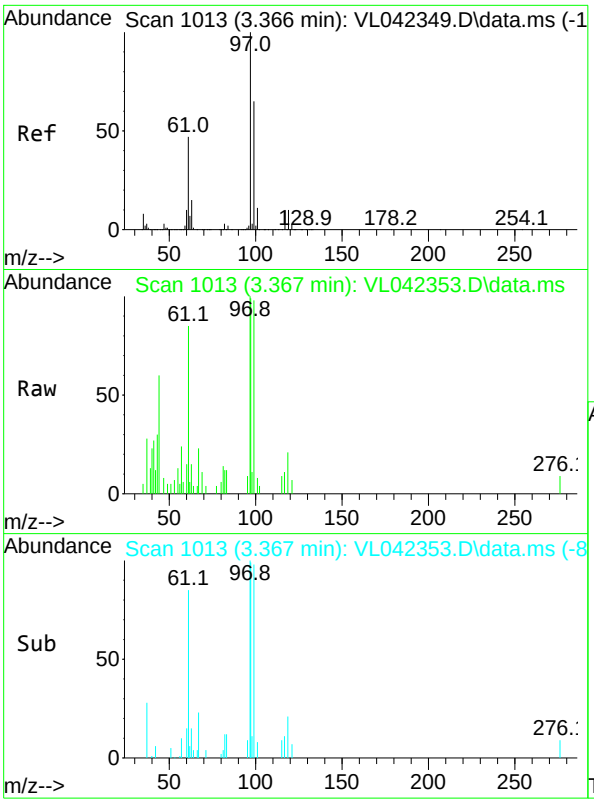


#5
Vinyl Chloride
Concen: 0.120 ppbv
RT: 1.580 min Scan# 461
Delta R.T. 0.000 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Tgt Ion: 62 Resp: 1088

Ion	Ratio	Lower	Upper
62	100		
64	17.3	25.4	38.0#

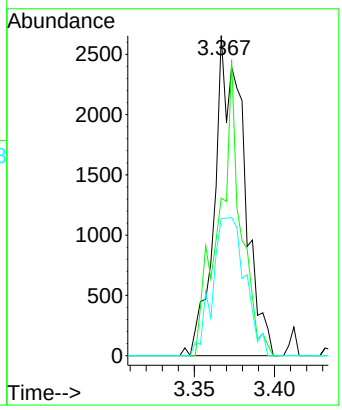




#32
1,1,1-Trichloroethane
Concen: 0.115 ppbv m
RT: 3.367 min Scan# 1
Delta R.T. 0.000 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Tgt Ion: 97 Resp: 339

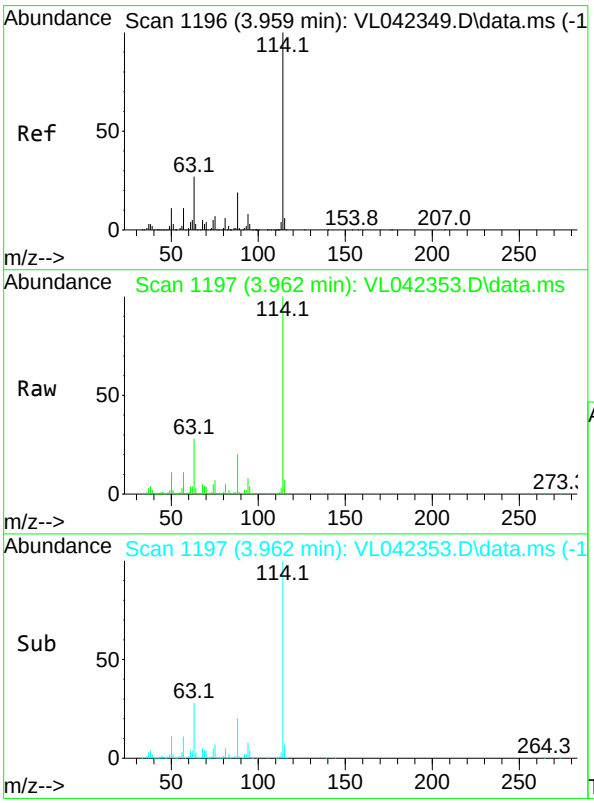
Ion	Ratio	Lower	Upper
97	100		
99	68.2	51.0	76.4
61	47.9	38.8	58.2



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Manual Integrations
APPROVED

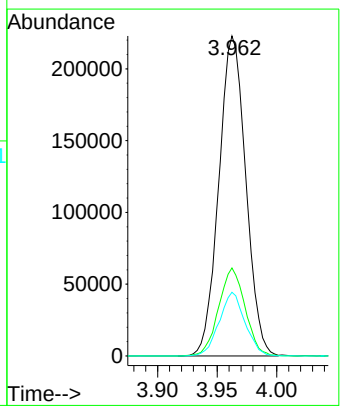
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

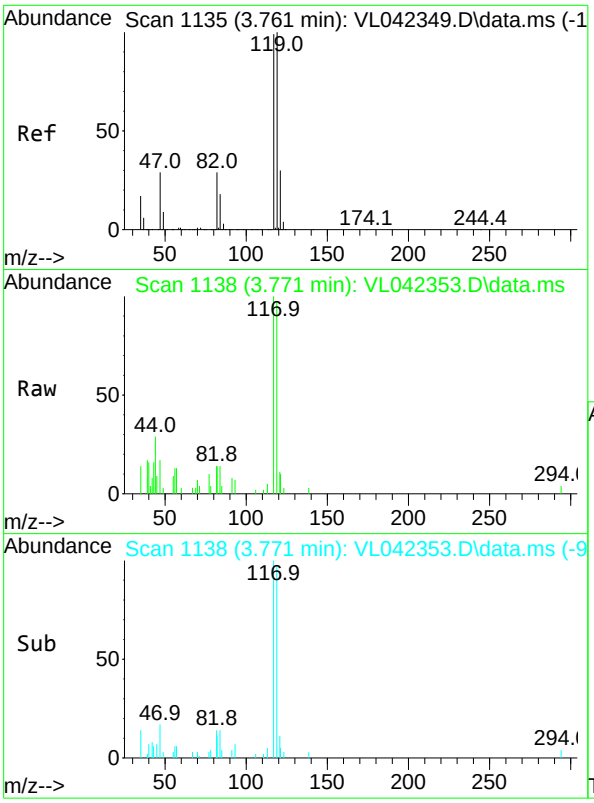


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.962 min Scan# 1197
Delta R.T. 0.004 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

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

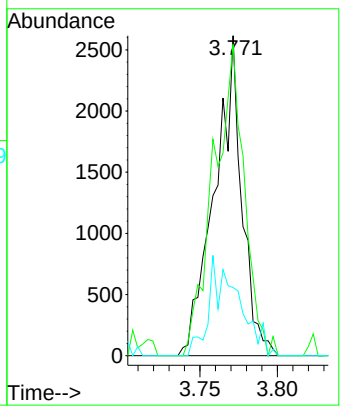




#35
Carbon Tetrachloride
Concen: 0.101 ppbv
RT: 3.771 min Scan# 1
Delta R.T. 0.010 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Tgt Ion:117 Resp: 320

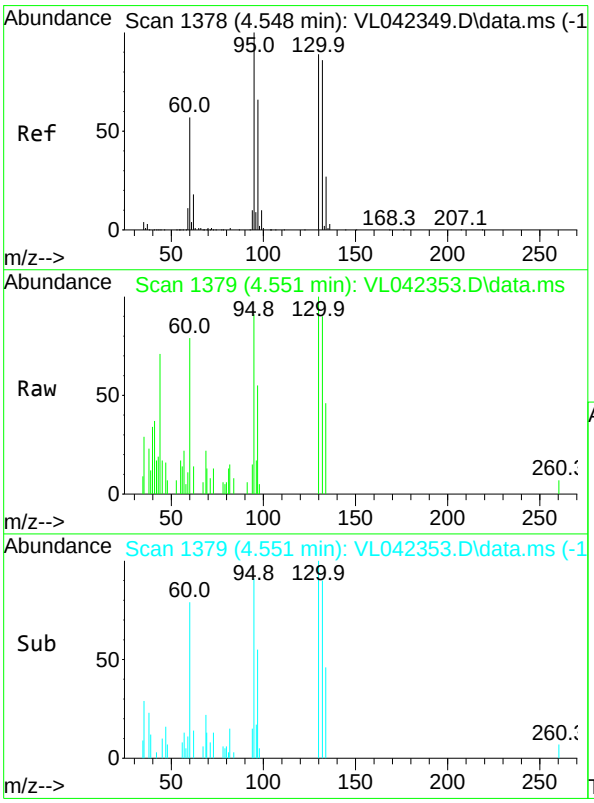
Ion	Ratio	Lower	Upper
117	100		
119	97.3	80.5	120.7
121	21.3	24.2	36.2#



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Manual Integrations
APPROVED

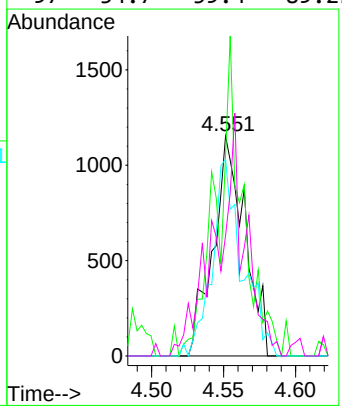
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

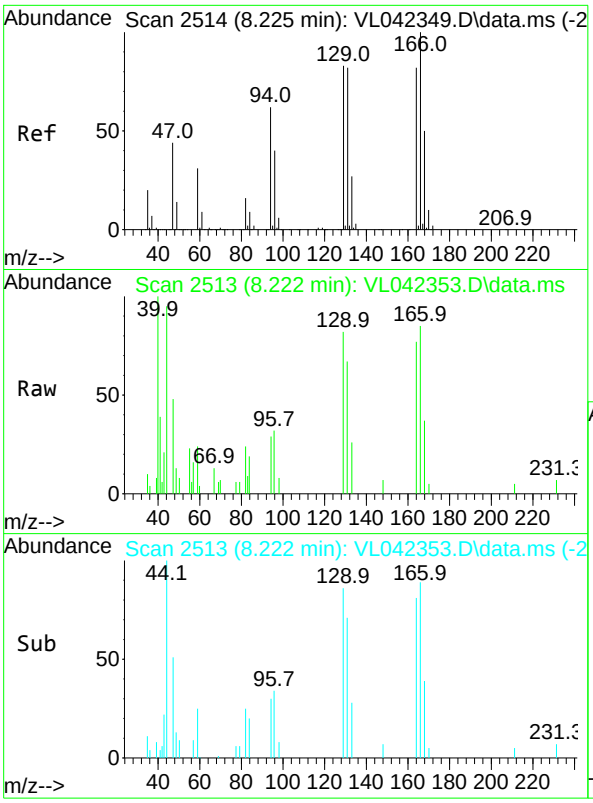


#38
Trichloroethene
Concen: 0.107 ppbv m
RT: 4.551 min Scan# 1379
Delta R.T. 0.004 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

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#

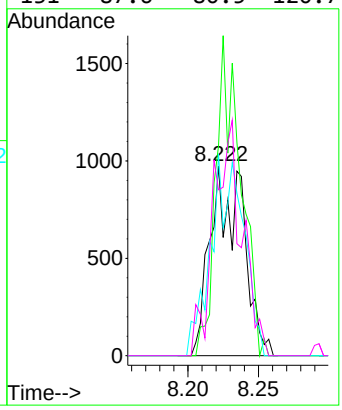




#52
Tetrachloroethene
Concen: 0.108 ppbv m
RT: 8.222 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Tgt Ion:164 Resp: 158

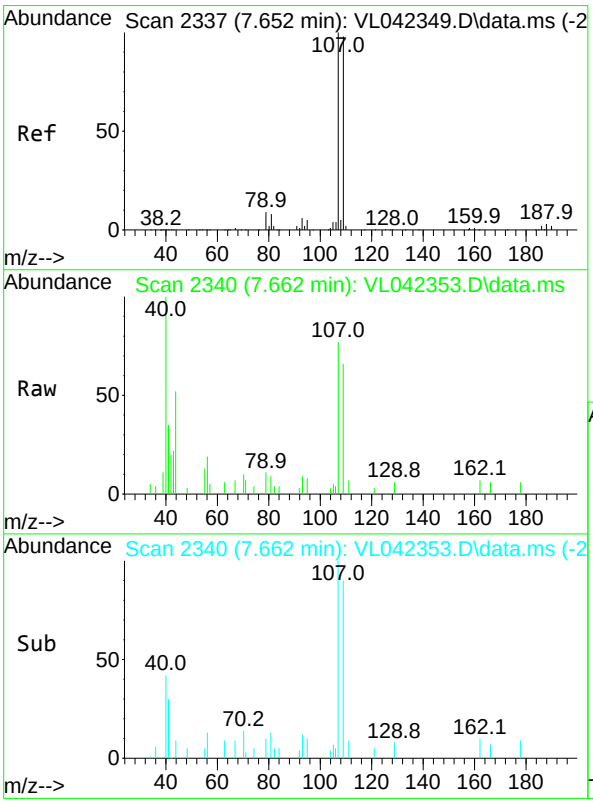
Ion	Ratio	Lower	Upper
164	100		
166	110.6	98.2	147.2
129	106.5	81.8	122.8
131	87.6	80.5	120.7



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Manual Integrations
APPROVED

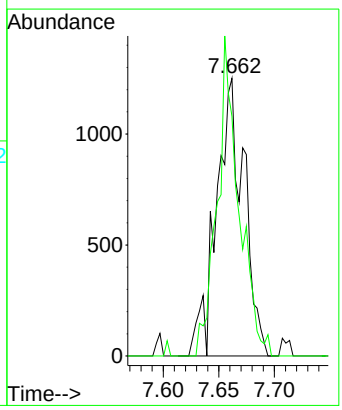
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

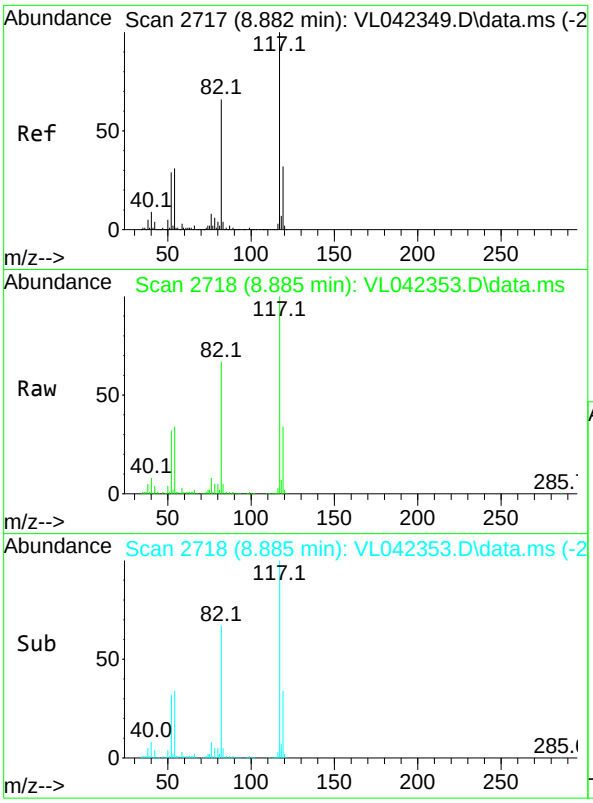


#54
1,2-Dibromoethane
Concen: 0.106 ppbv m
RT: 7.662 min Scan# 2340
Delta R.T. 0.010 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Tgt Ion:107 Resp: 2177

Ion	Ratio	Lower	Upper
107	100		
109	86.3	78.2	117.4

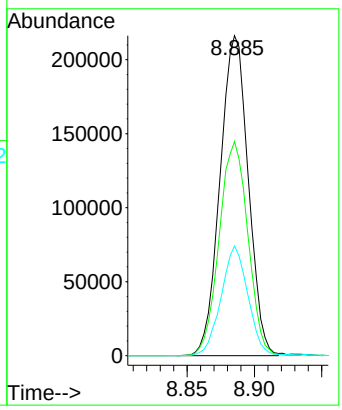




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.885 min Scan# 2
Delta R.T. 0.004 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Tgt Ion:117 Resp: 31500

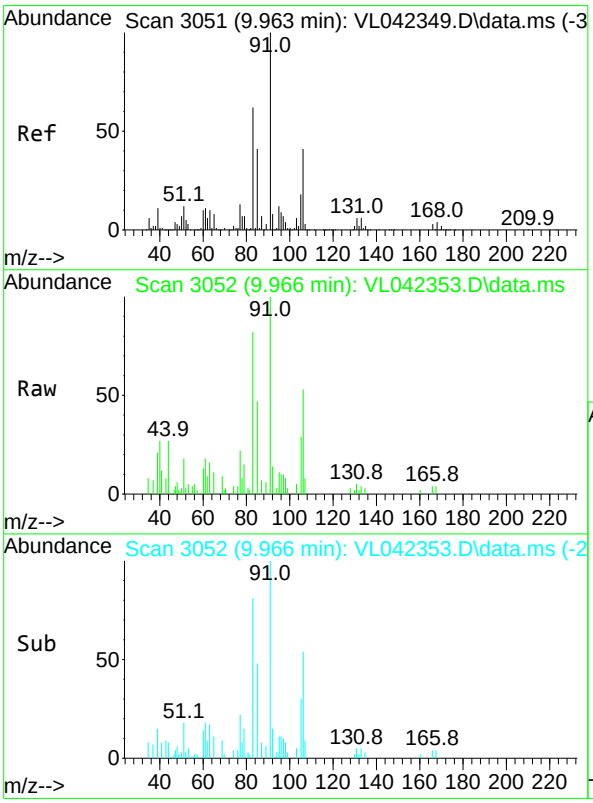
Ion	Ratio	Lower	Upper
117	100		
82	68.1	57.8	86.6
119	33.0	25.2	37.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Manual Integrations
APPROVED

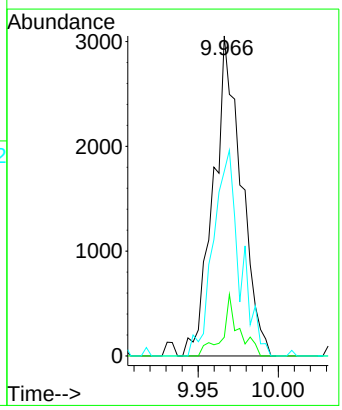
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

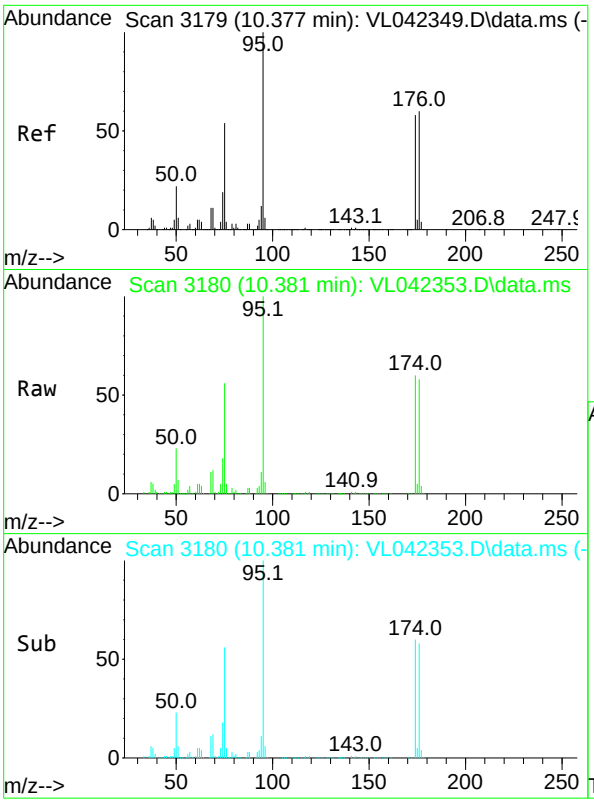


#63
1,1,2,2-Tetrachloroethane
Concen: 0.113 ppbv m
RT: 9.966 min Scan# 3052
Delta R.T. 0.004 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

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

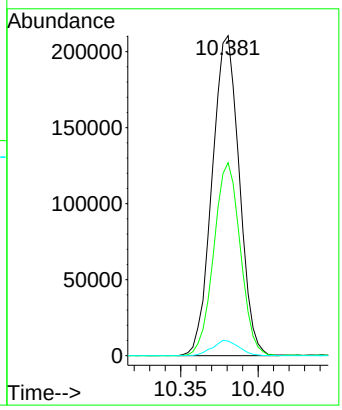




#68
1-Bromo-4-Fluorobenzene
Concen: 9.906 ppbv
RT: 10.381 min Scan# 3
Delta R.T. 0.004 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Tgt Ion: 95 Resp: 25641

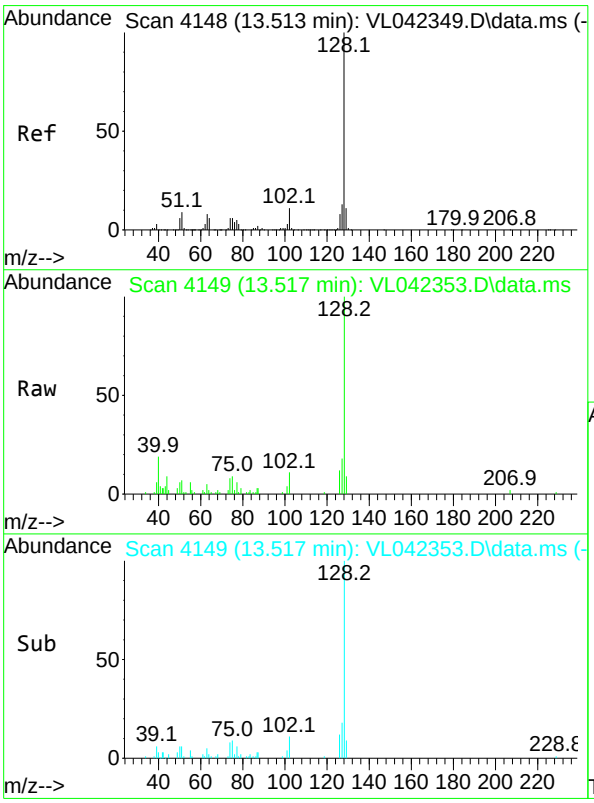
Ion	Ratio	Lower	Upper
95	100		
174	59.3	48.5	72.7
175	4.7	3.7	5.5



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Manual Integrations
APPROVED

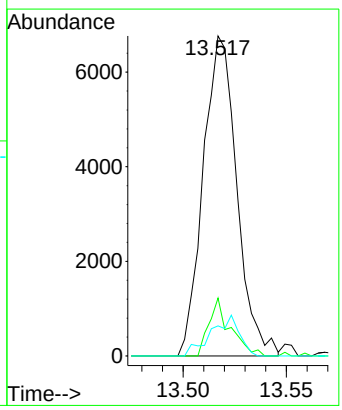
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#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

Quantitation Report (QT Reviewed)

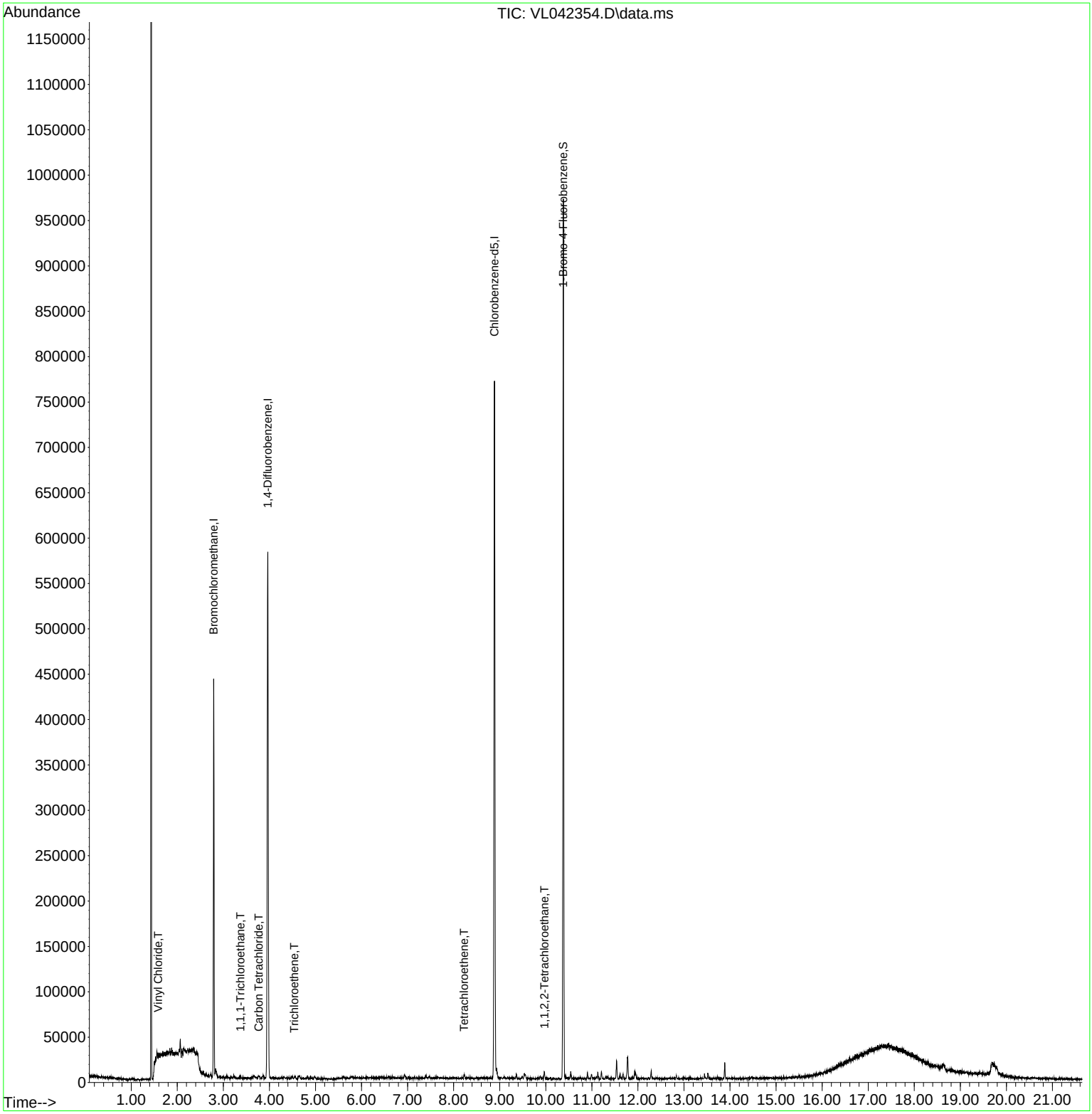
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042354.D
Acq On : 17 Apr 2025 12:22
Operator : SY/MD
Sample : VSTDICC0.03
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

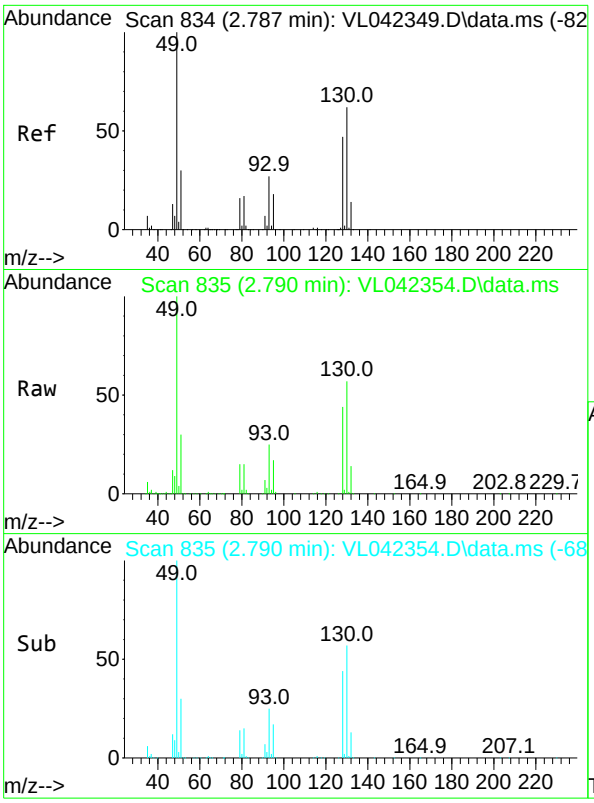
Quant Time: Apr 18 02:07:48 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Apr 18 01:24:29 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Manual Integrations APPROVED

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

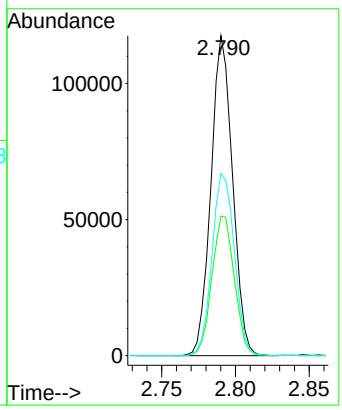




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Tgt Ion: 49 Resp: 12004

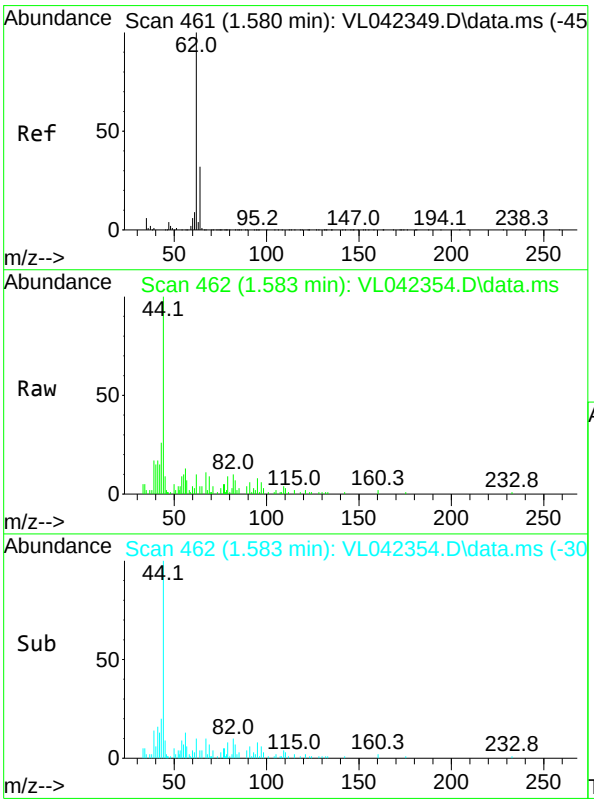
Ion	Ratio	Lower	Upper
49	100		
128	45.3	22.8	68.4
130	59.0	29.3	88.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Manual Integrations
APPROVED

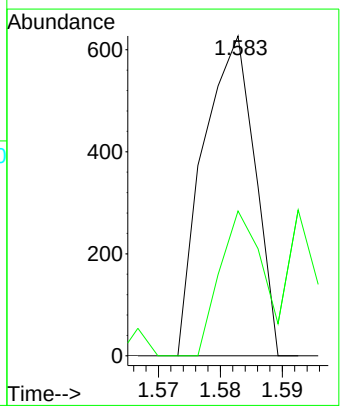
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

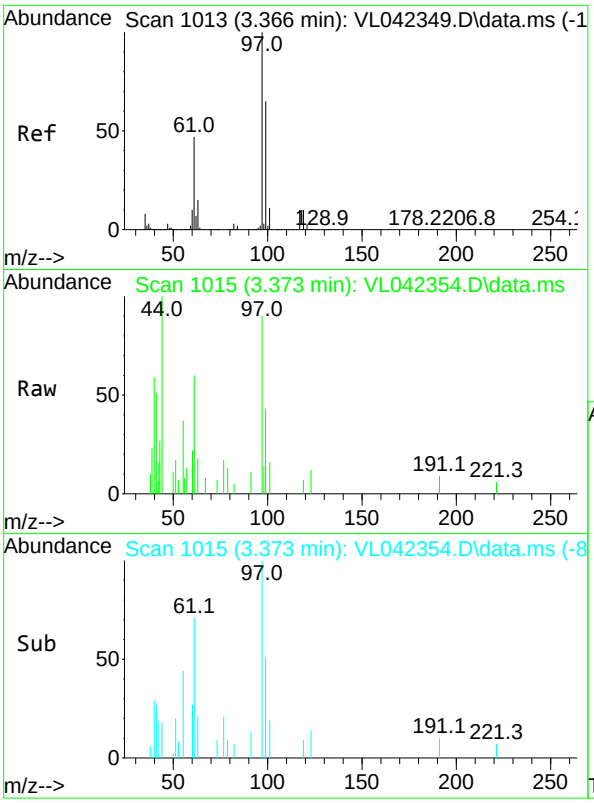


#5
Vinyl Chloride
Concen: 0.040 ppbv
RT: 1.583 min Scan# 462
Delta R.T. 0.003 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Tgt Ion: 62 Resp: 361

Ion	Ratio	Lower	Upper
62	100		
64	45.3	25.4	38.0#

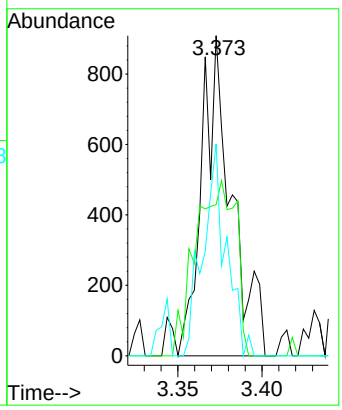




#32
1,1,1-Trichloroethane
Concen: 0.038 ppbv m
RT: 3.373 min Scan# 1(
Delta R.T. 0.006 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Tgt Ion: 97 Resp: 112(

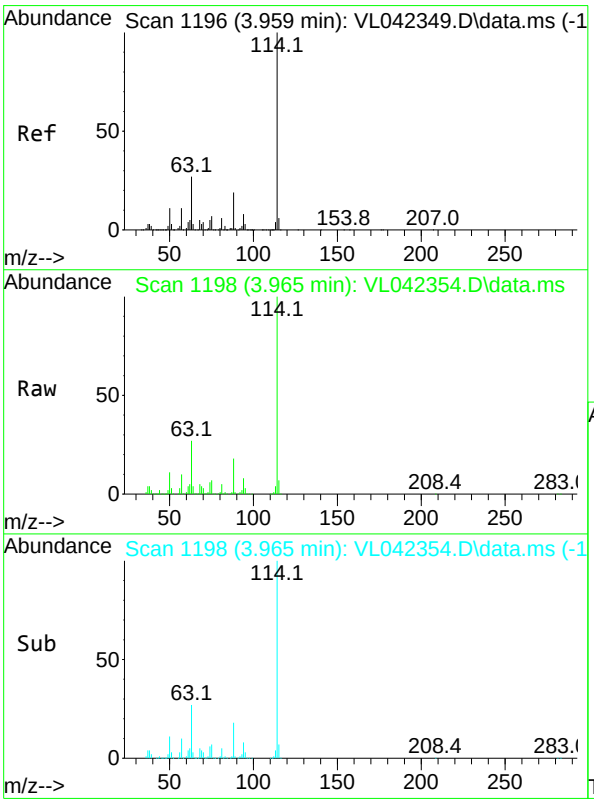
Ion	Ratio	Lower	Upper
97	100		
99	74.4	51.0	76.4
61	56.9	38.8	58.2



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Manual Integrations APPROVED

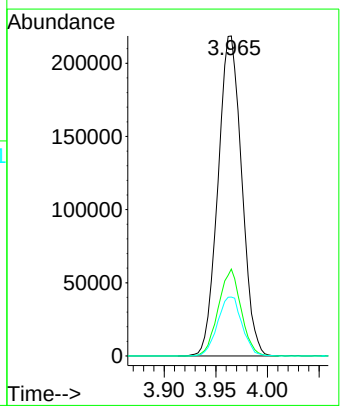
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

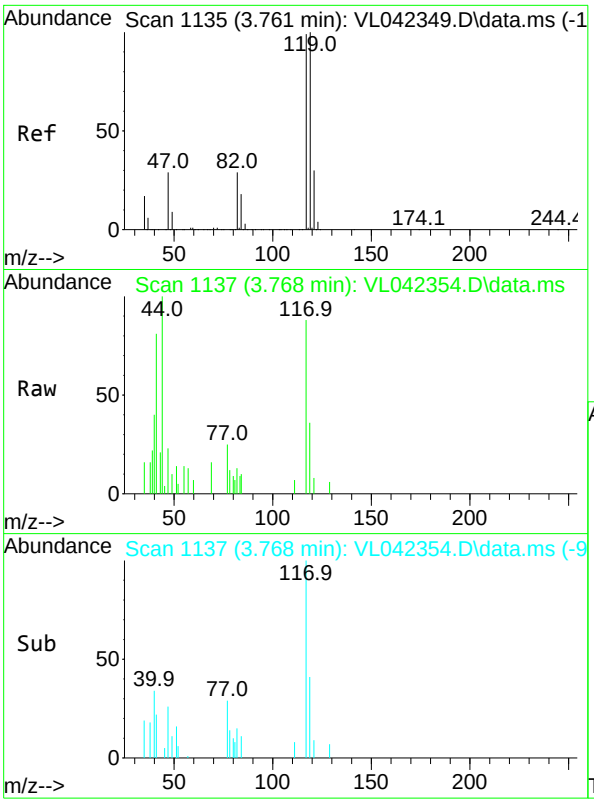


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.965 min Scan# 1198
Delta R.T. 0.006 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

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

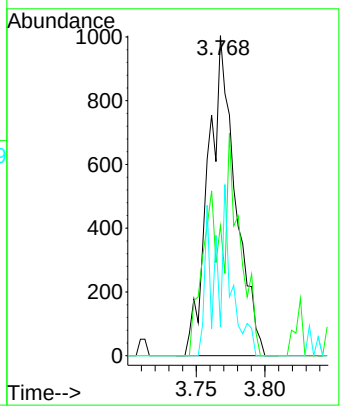




#35
Carbon Tetrachloride
Concen: 0.044 ppbv m
RT: 3.768 min Scan# 1
Delta R.T. 0.006 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Tgt Ion:117 Resp: 138

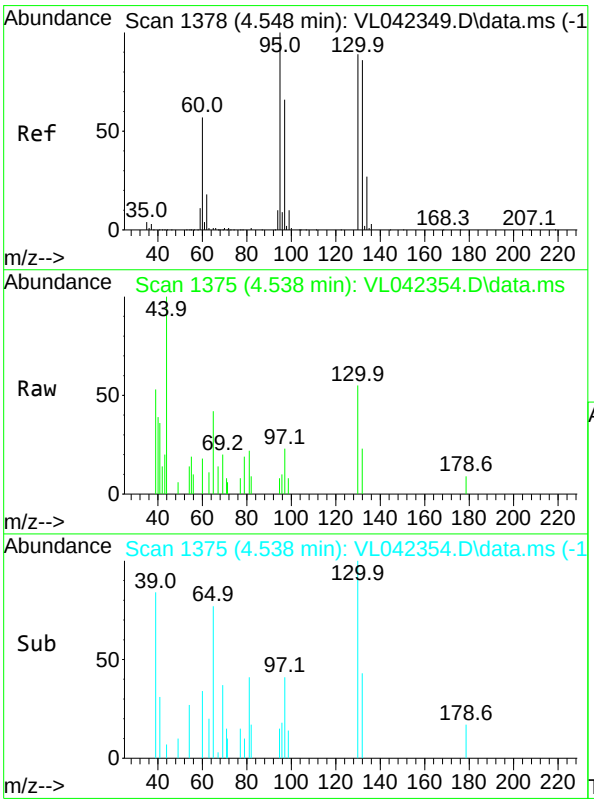
Ion	Ratio	Lower	Upper
117	100		
119	40.6	80.5	120.7#
121	9.0	24.2	36.2#



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Manual Integrations APPROVED

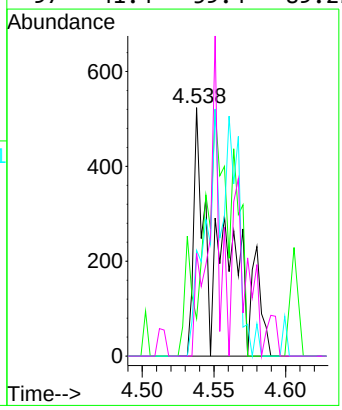
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

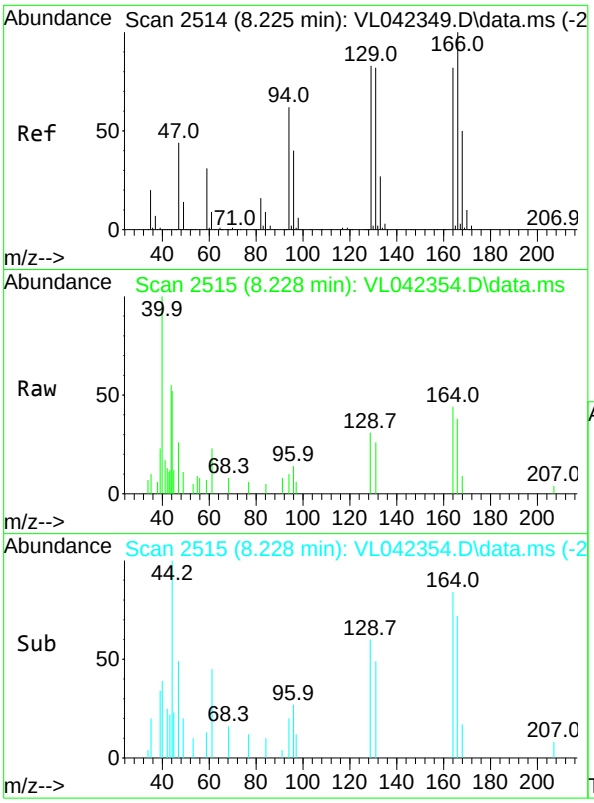


#38
Trichloroethene
Concen: 0.041 ppbv m
RT: 4.538 min Scan# 1375
Delta R.T. -0.010 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

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#

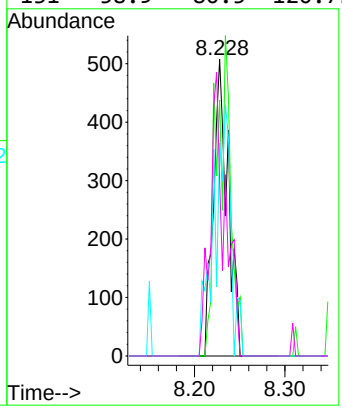




#52
Tetrachloroethene
Concen: 0.039 ppbv m
RT: 8.228 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Tgt Ion:164 Resp: 56

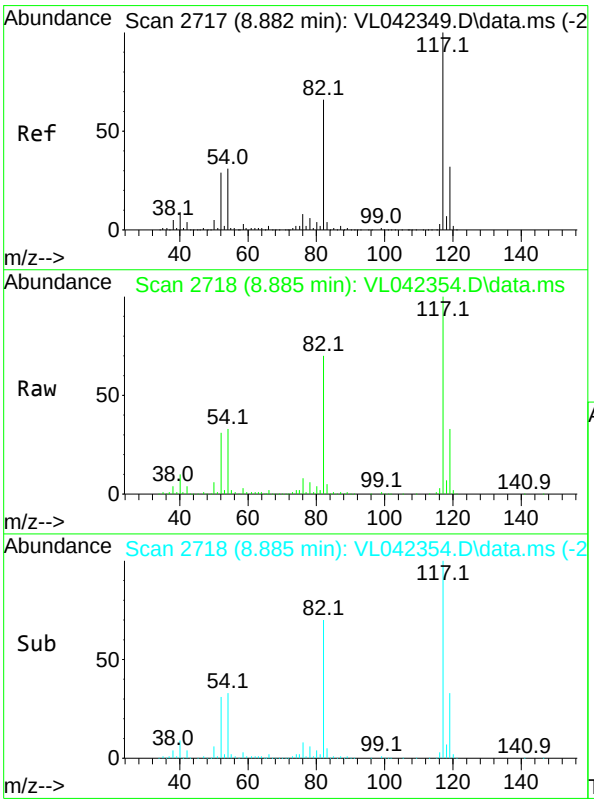
Ion	Ratio	Lower	Upper
164	100		
166	86.2	98.2	147.2#
129	71.7	81.8	122.8#
131	58.9	80.5	120.7#



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Manual Integrations
APPROVED

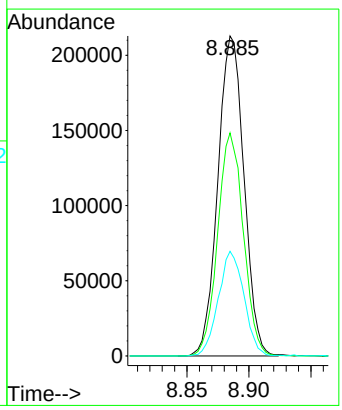
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

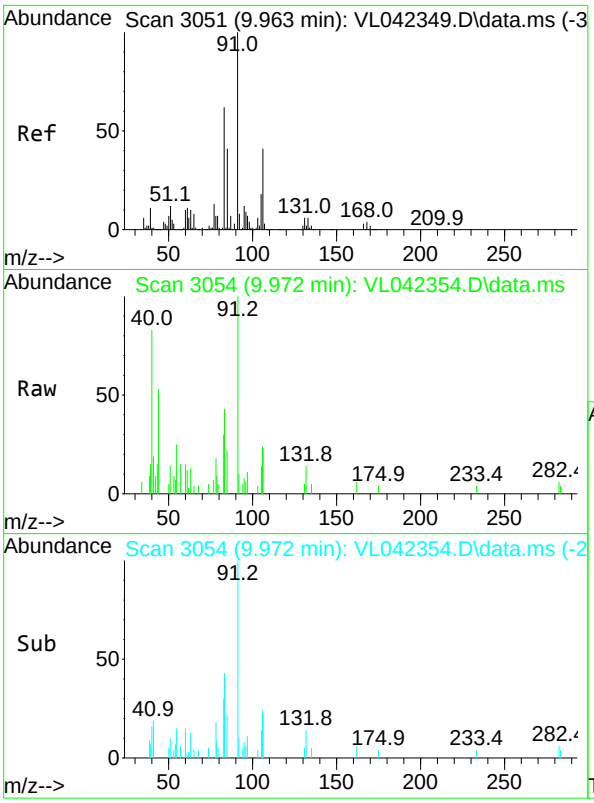


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.885 min Scan# 2718
Delta R.T. 0.003 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

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-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

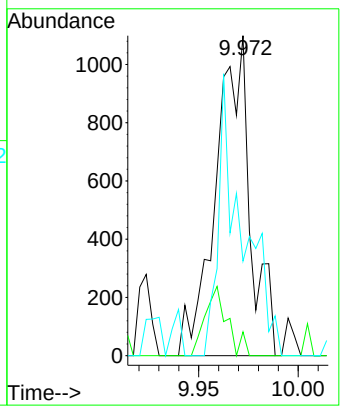
Tgt Ion: 83 Resp: 132

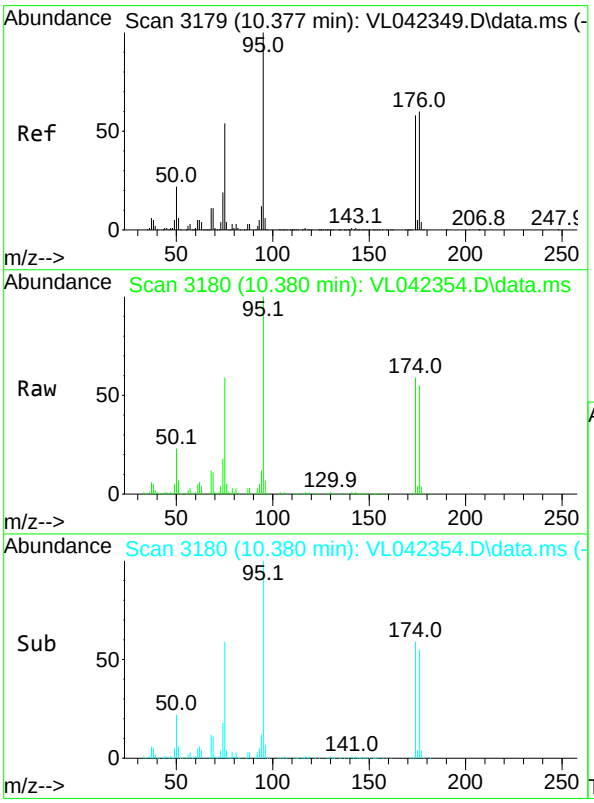
Ion	Ratio	Lower	Upper
83	100		
131	13.9	4.5	13.7#
85	61.4	32.4	97.0

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Manual Integrations
APPROVED

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

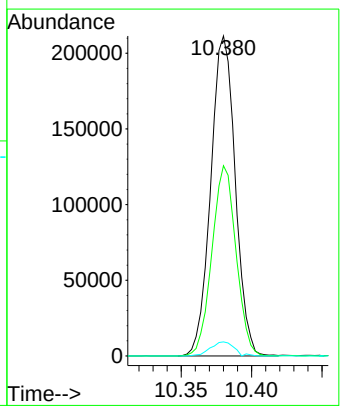




#68
1-Bromo-4-Fluorobenzene
Concen: 9.962 ppbv
RT: 10.380 min Scan# 3180
Delta R.T. 0.003 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

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

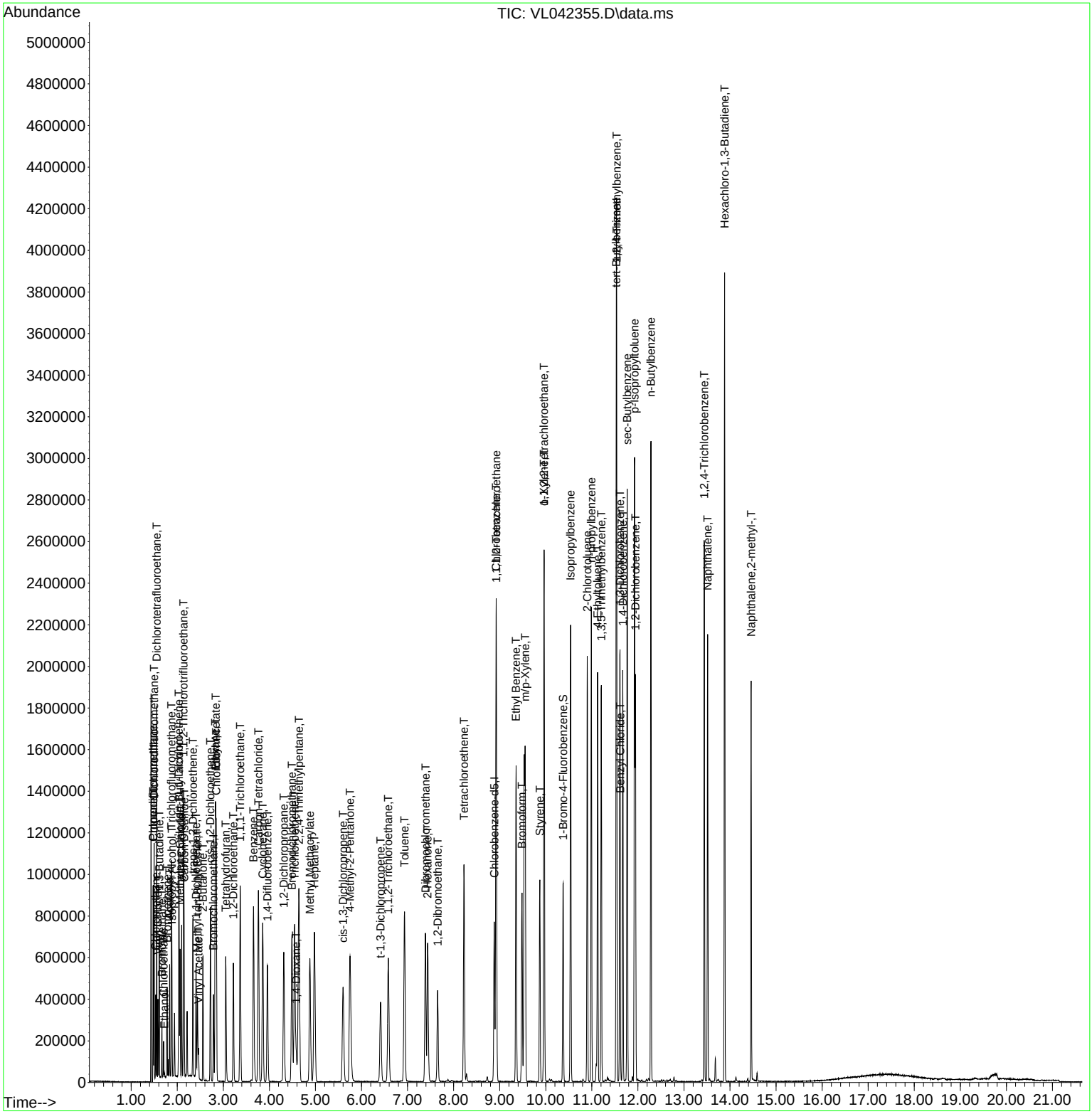
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042355.D
Acq On : 17 Apr 2025 12:54
Operator : SY/MD
Sample : VSTDICC015
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

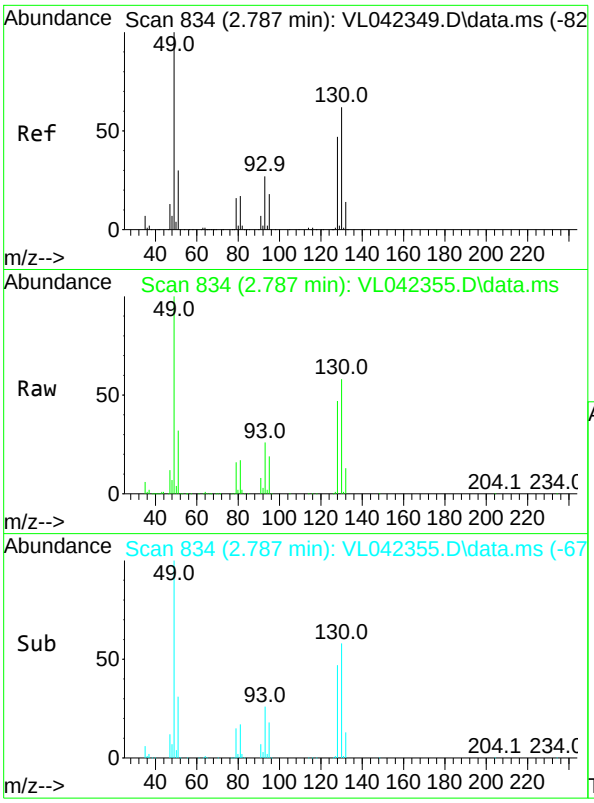
Quant Time: Apr 18 01:31:10 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Apr 18 01:24:29 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations APPROVED

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

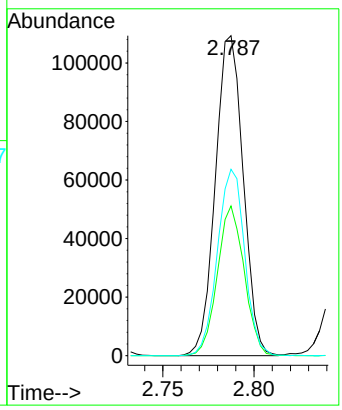




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 8
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 49 Resp: 11607

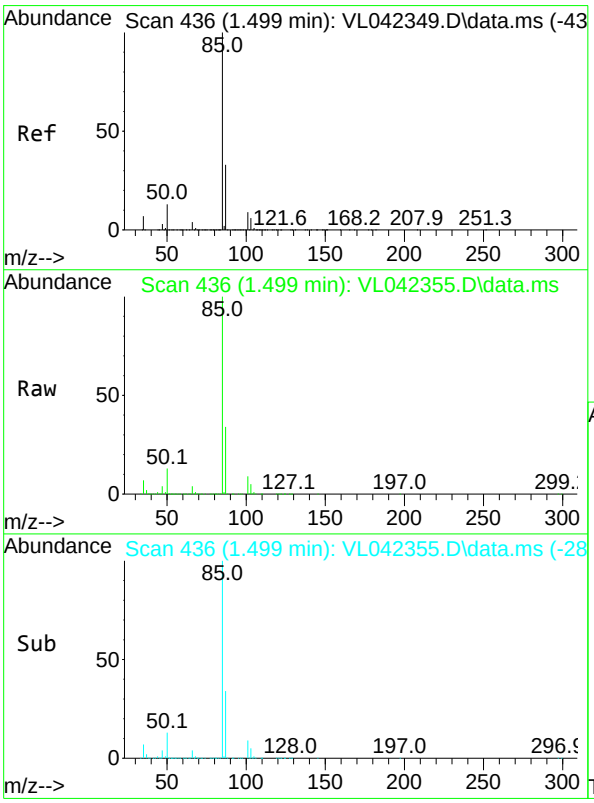
Ion	Ratio	Lower	Upper
49	100		
128	45.1	22.8	68.4
130	57.1	29.3	88.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

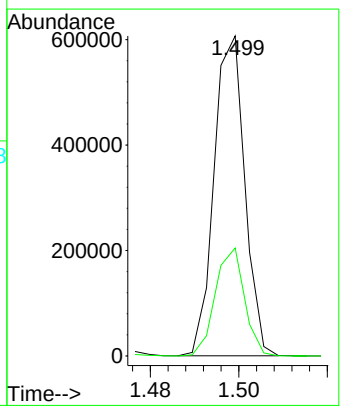
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

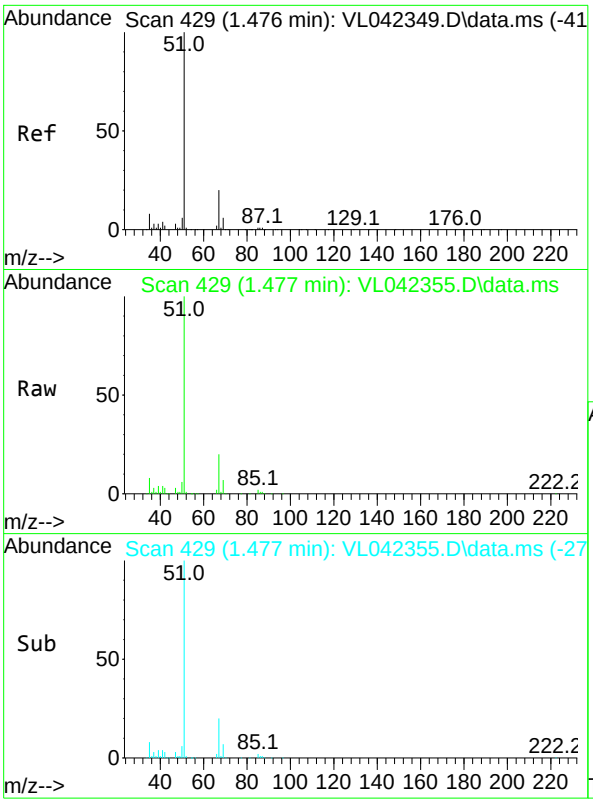


#2
Dichlorodifluoromethane
Concen: 14.277 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 85 Resp: 292784

Ion	Ratio	Lower	Upper
85	100		
87	33.8	26.6	39.8

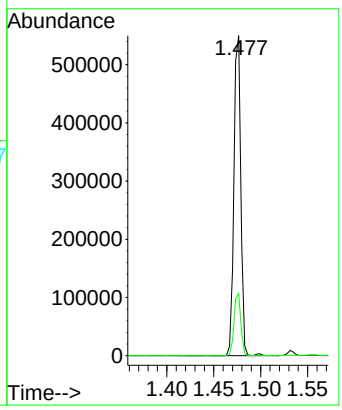




#3
Chlorodifluoromethane
Concen: 14.341 ppbv
RT: 1.477 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 51 Resp: 28004

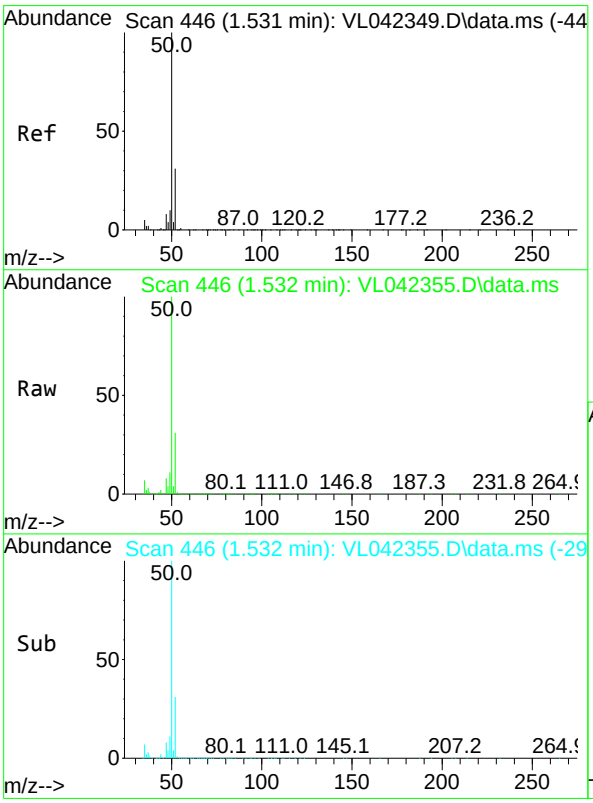
Ion	Ratio	Lower	Upper
51	100		
67	19.5	16.2	24.4



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

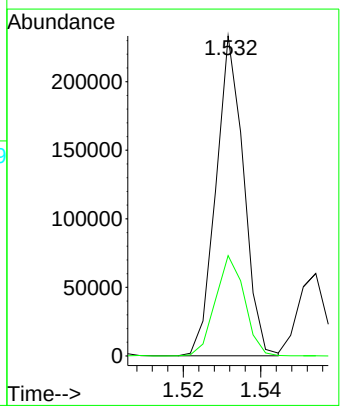
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

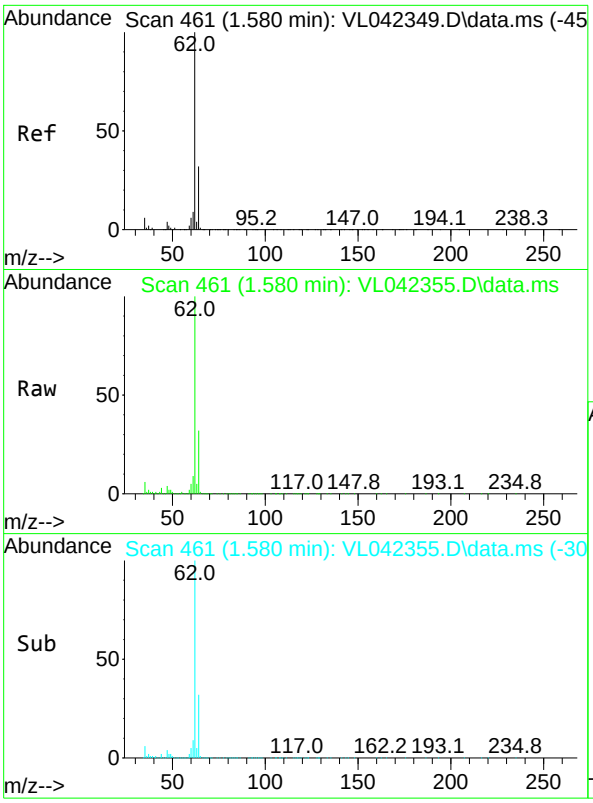


#4
Chloromethane
Concen: 14.266 ppbv
RT: 1.532 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 50 Resp: 115775

Ion	Ratio	Lower	Upper
50	100		
52	31.3	24.7	37.1

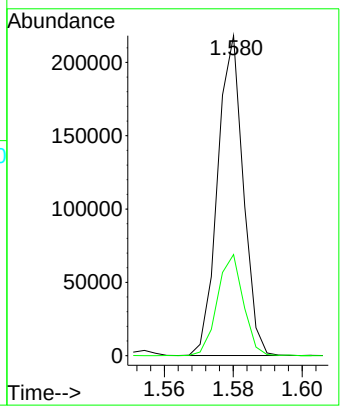




#5
Vinyl Chloride
Concen: 12.752 ppbv
RT: 1.580 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 62 Resp: 11265

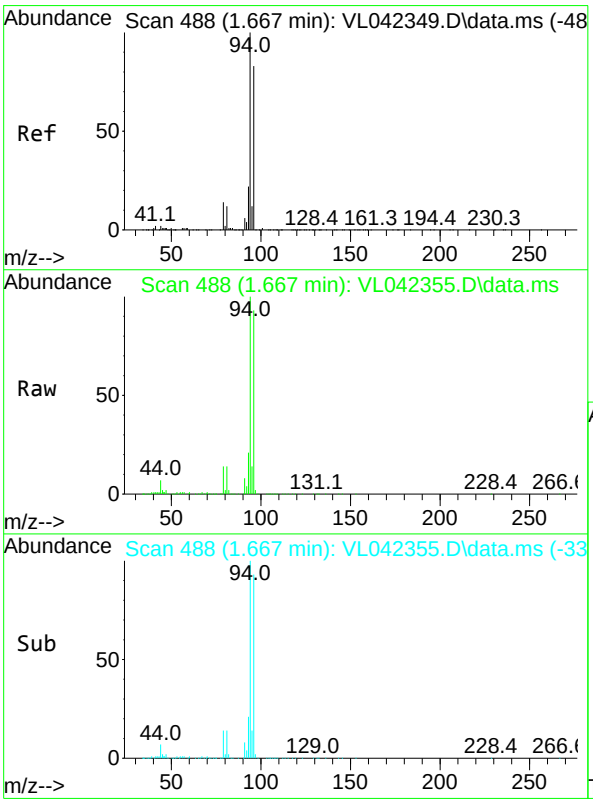
Ion	Ratio	Lower	Upper
62	100		
64	31.6	25.4	38.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

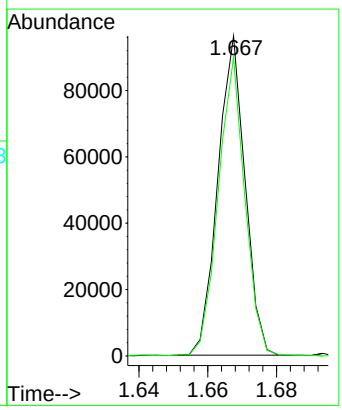
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

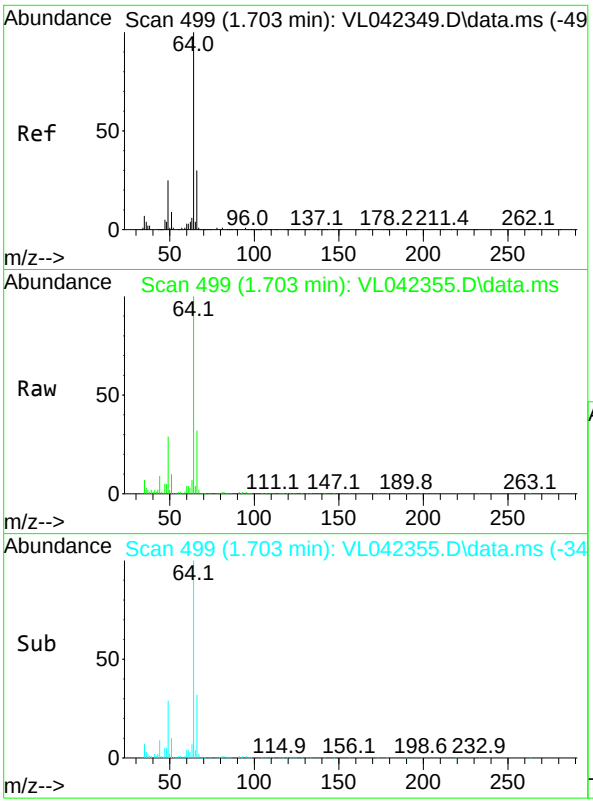


#6
Bromomethane
Concen: 13.800 ppbv
RT: 1.667 min Scan# 488
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 94 Resp: 52805

Ion	Ratio	Lower	Upper
94	100		
96	93.1	66.2	99.2

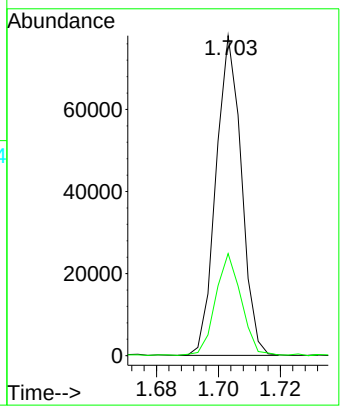




#7
Chloroethane
Concen: 13.881 ppbv
RT: 1.703 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 64 Resp: 4434

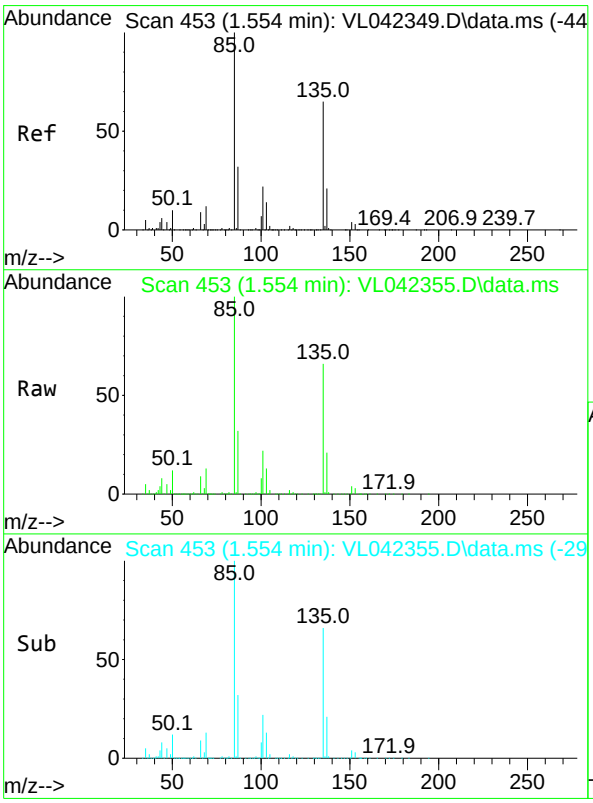
Ion	Ratio	Lower	Upper
64	100		
66	31.9	24.6	37.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

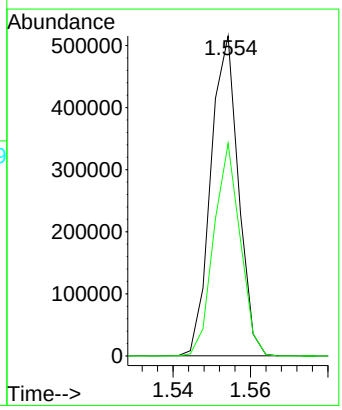
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

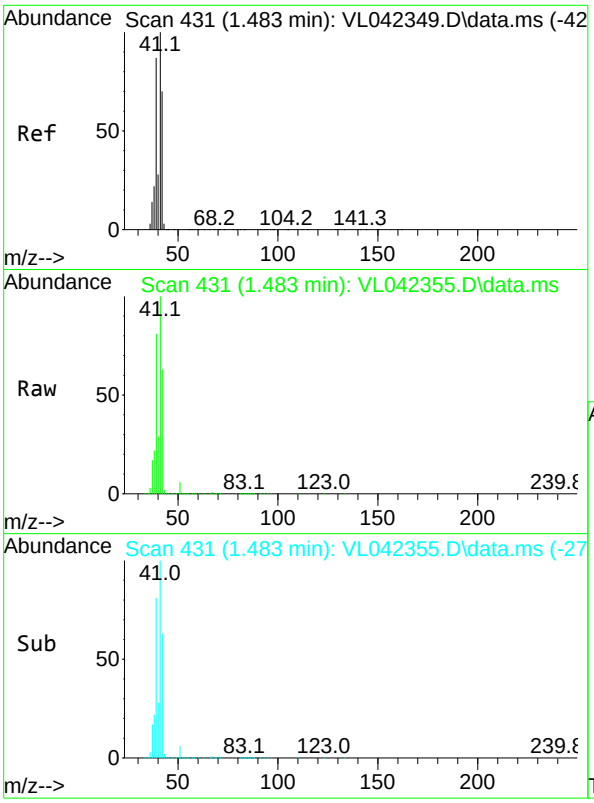


#8
Dichlorotetrafluoroethane
Concen: 14.484 ppbv
RT: 1.554 min Scan# 453
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 85 Resp: 255029

Ion	Ratio	Lower	Upper
85	100		
135	63.6	52.2	78.2

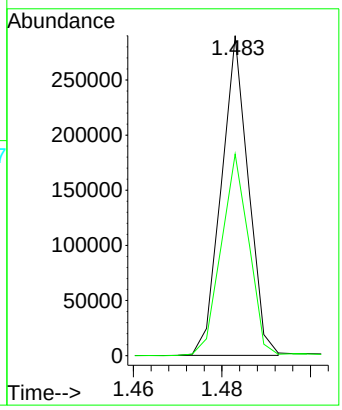




#9
Propene
Concen: 13.842 ppbv
RT: 1.483 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 41 Resp: 12310

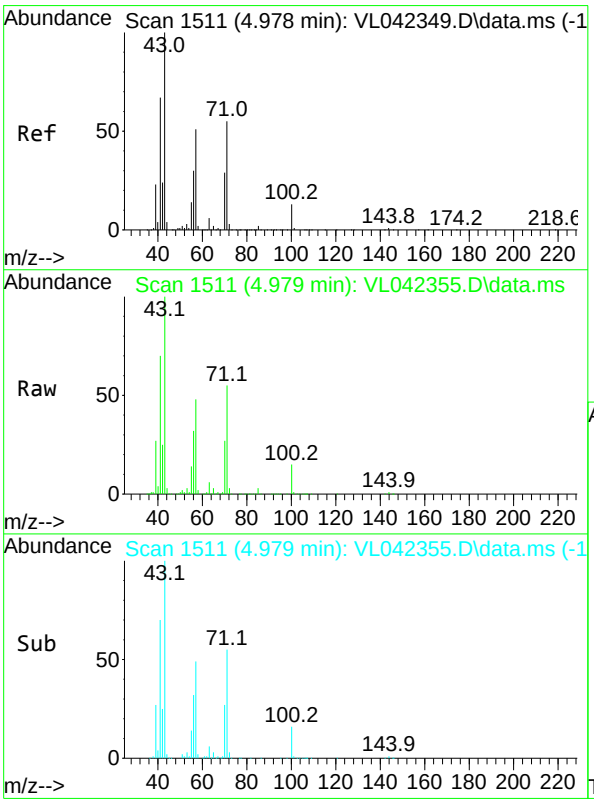
Ion	Ratio	Lower	Upper
41	100		
42	66.0	56.2	84.4



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

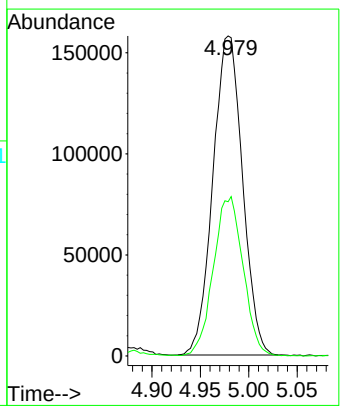
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

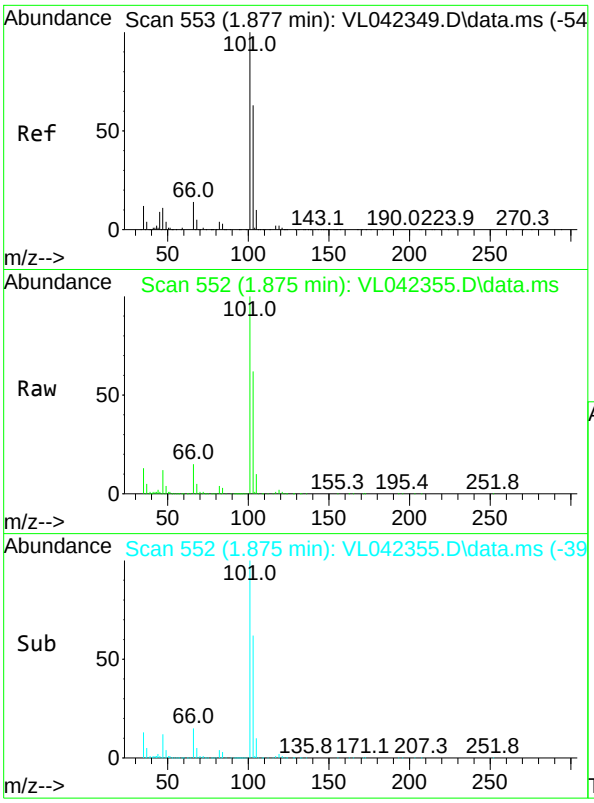


#10
Heptane
Concen: 14.047 ppbv
RT: 4.979 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

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

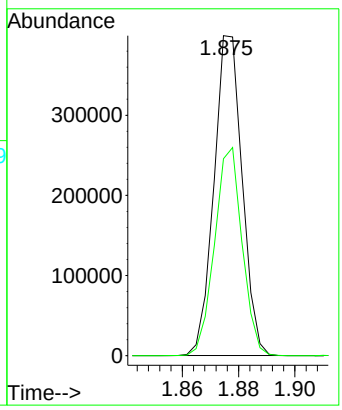
Tgt Ion:101 Resp: 27805

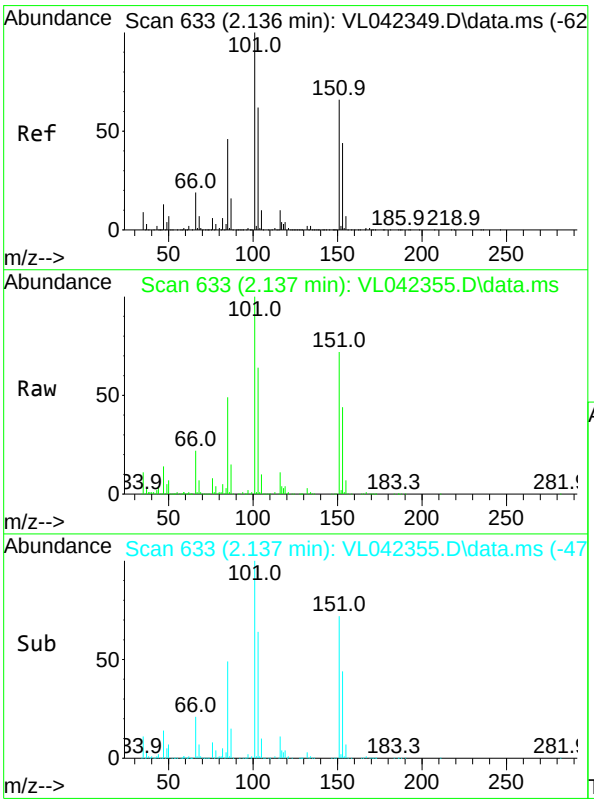
Ion	Ratio	Lower	Upper
101	100		
103	61.6	50.1	75.1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

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

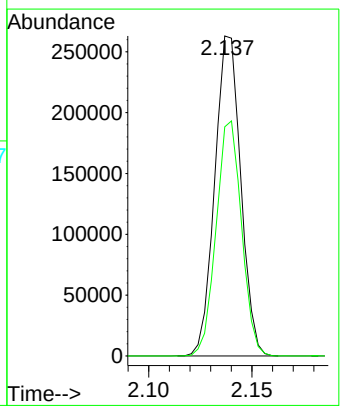


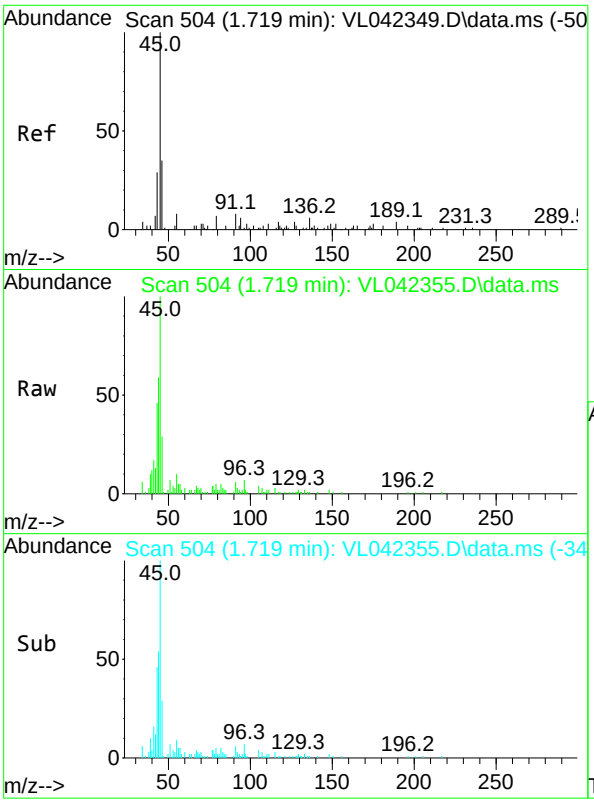


#12
1,1,2-Trichlorotrifluoroethane
Concen: 14.447 ppbv
RT: 2.137 min Scan# 633
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion:101 Resp: 230366

Ion	Ratio	Lower	Upper
101	100		
151	71.8	57.0	85.6

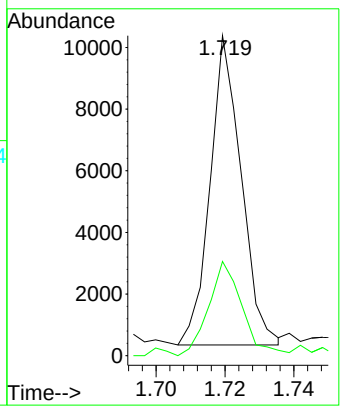




#13
Ethanol
Concen: 8.702 ppbv
RT: 1.719 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 45 Resp: 632

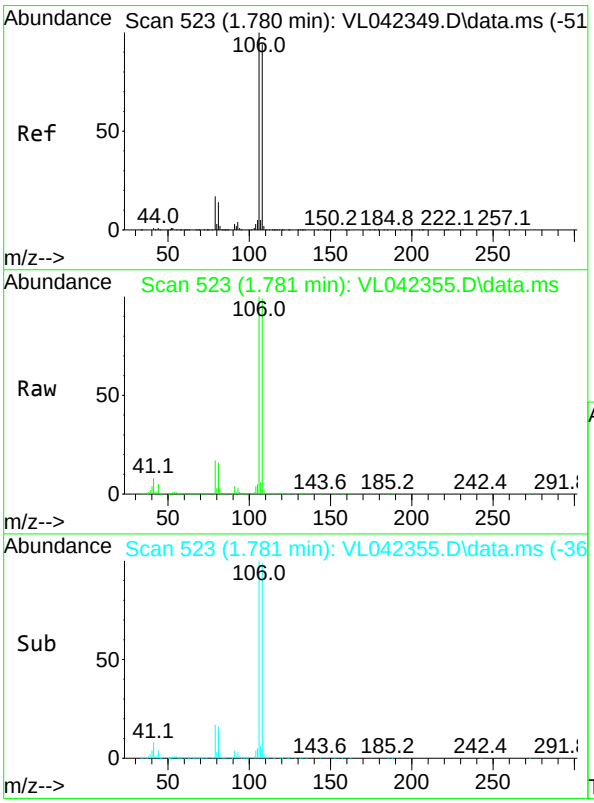
Ion	Ratio	Lower	Upper
45	100		
46	37.6	21.9	87.7



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

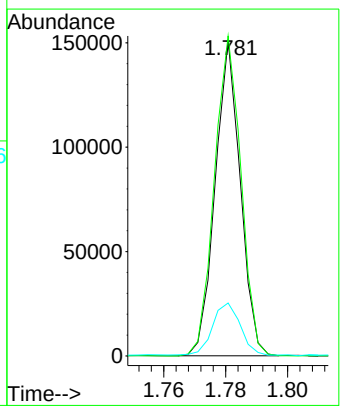
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

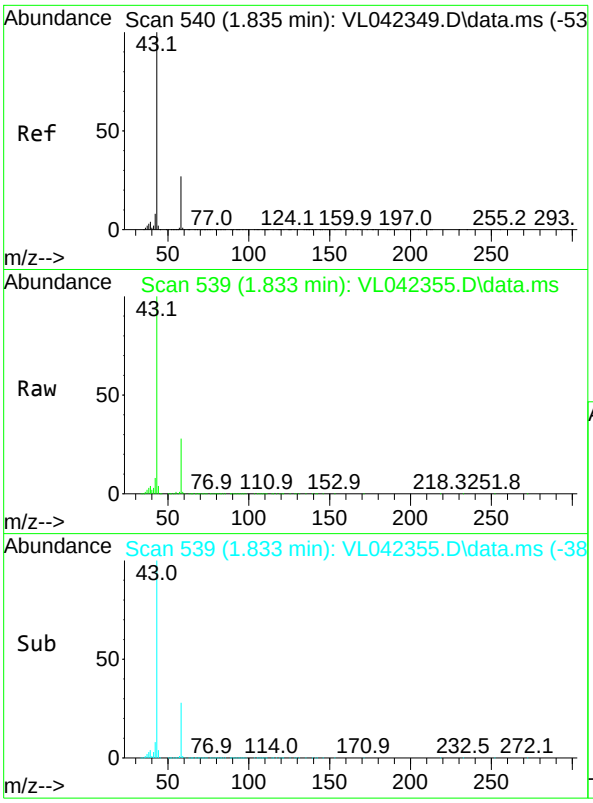


#14
Bromoethene
Concen: 14.117 ppbv
RT: 1.781 min Scan# 523
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

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

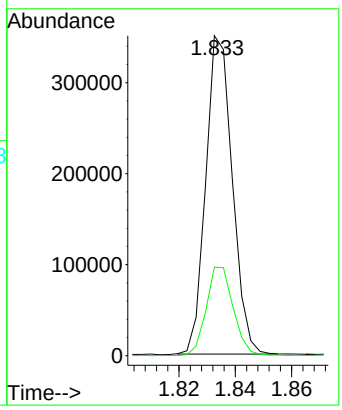




#15
Acetone
Concen: 12.056 ppbv
RT: 1.833 min Scan# 5
Delta R.T. -0.003 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 43 Resp: 22908

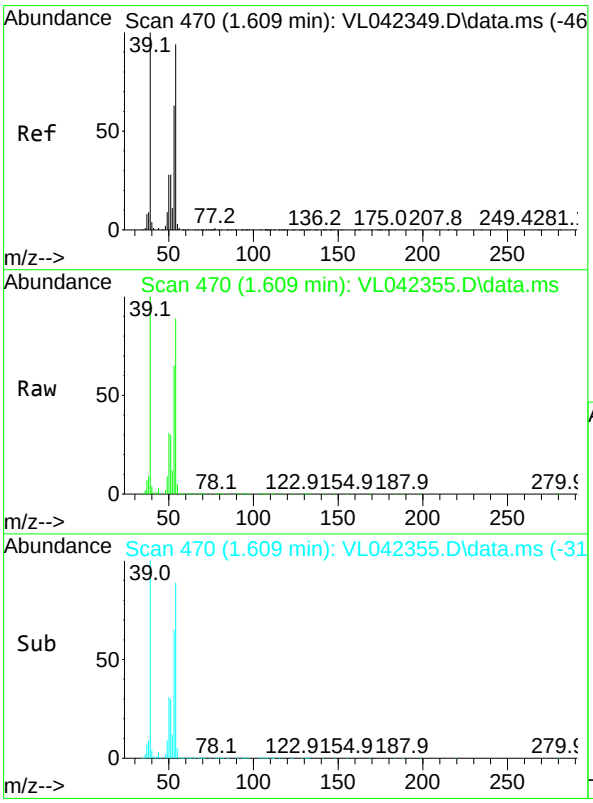
Ion	Ratio	Lower	Upper
43	100		
58	28.4	22.4	33.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

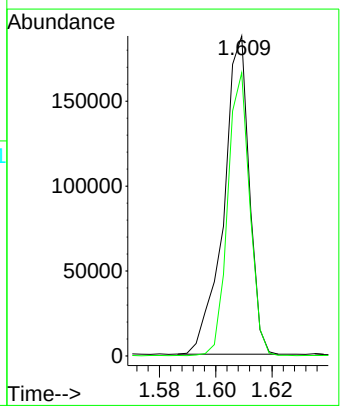
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

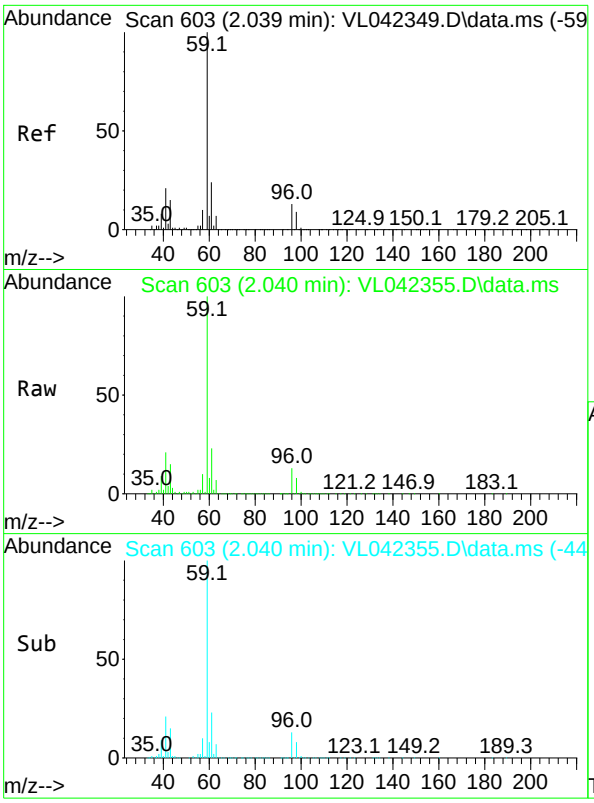


#16
1,3-Butadiene
Concen: 13.224 ppbv
RT: 1.609 min Scan# 470
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 39 Resp: 117997

Ion	Ratio	Lower	Upper
39	100		
54	77.2	64.9	97.3

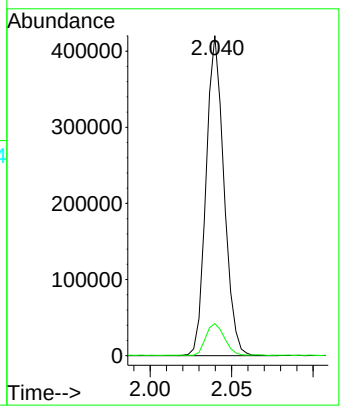




#17
tert-Butyl alcohol
Concen: 13.615 ppbv
RT: 2.040 min Scan# 6
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 59 Resp: 32060

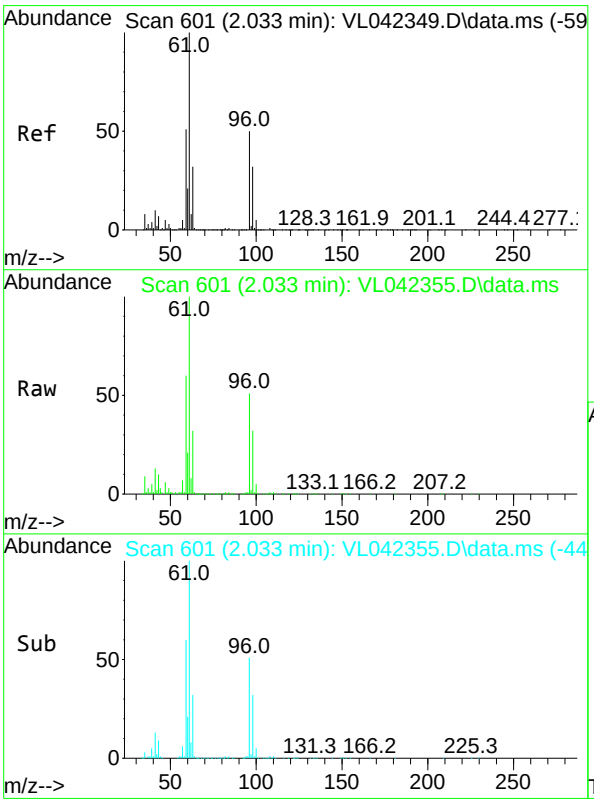
Ion	Ratio	Lower	Upper
59	100		
57	10.6	8.7	13.1



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

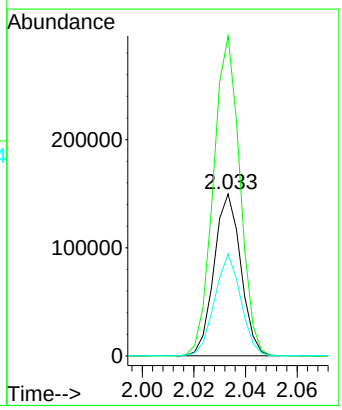
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

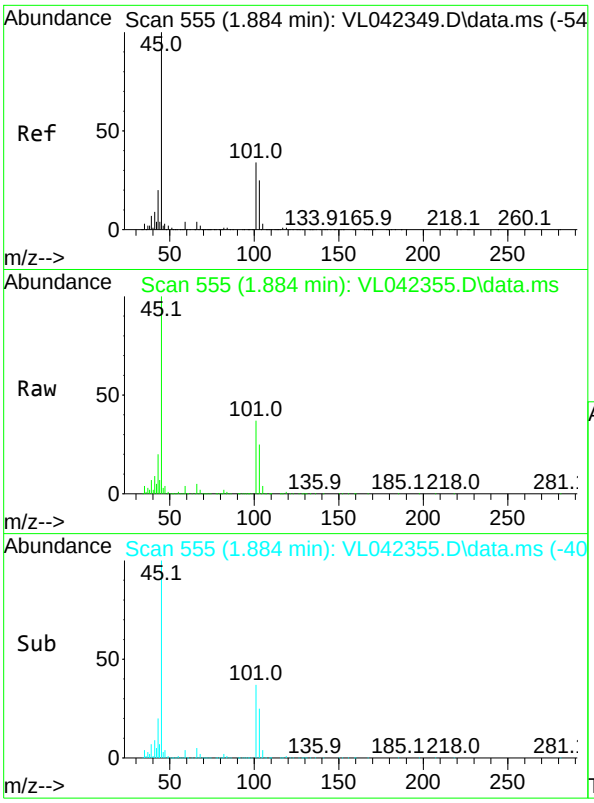


#18
1,1-Dichloroethene
Concen: 14.045 ppbv
RT: 2.033 min Scan# 601
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

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

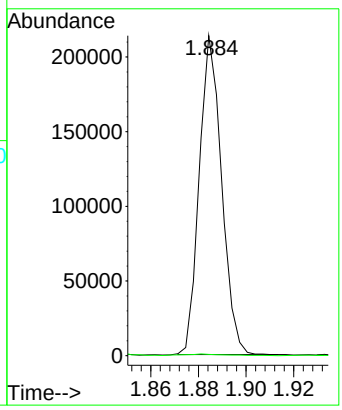




#19
Isopropyl Alcohol
Concen: 13.169 ppbv
RT: 1.884 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 45 Resp: 13900

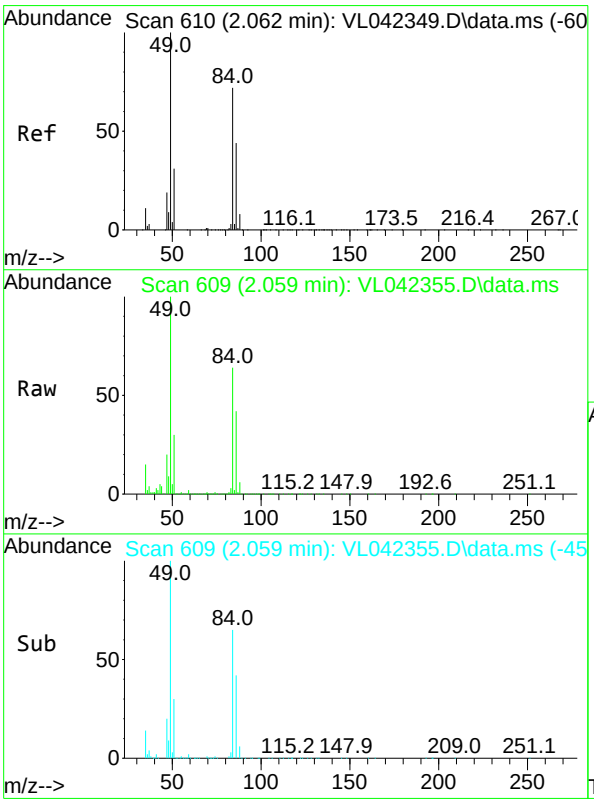
Ion	Ratio	Lower	Upper
45	100		
58	46.9	34.5	51.7



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

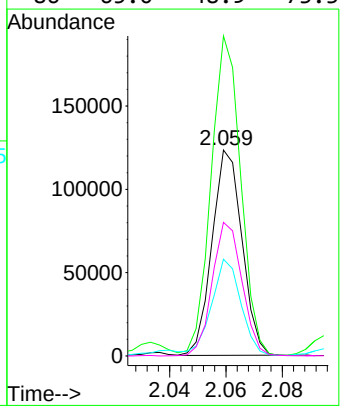
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

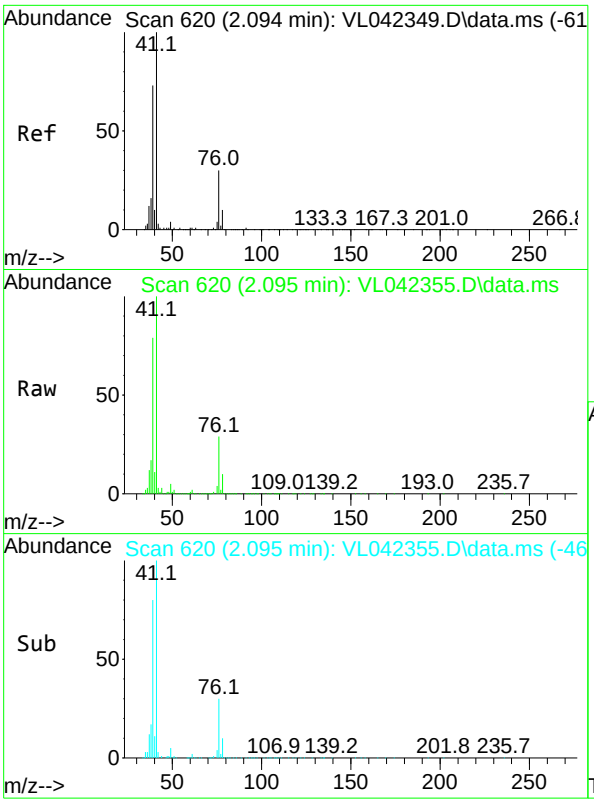


#20
Methylene Chloride
Concen: 12.241 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.003 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

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

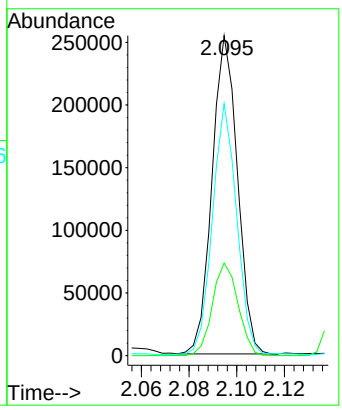
Tgt Ion: 41 Resp: 18799

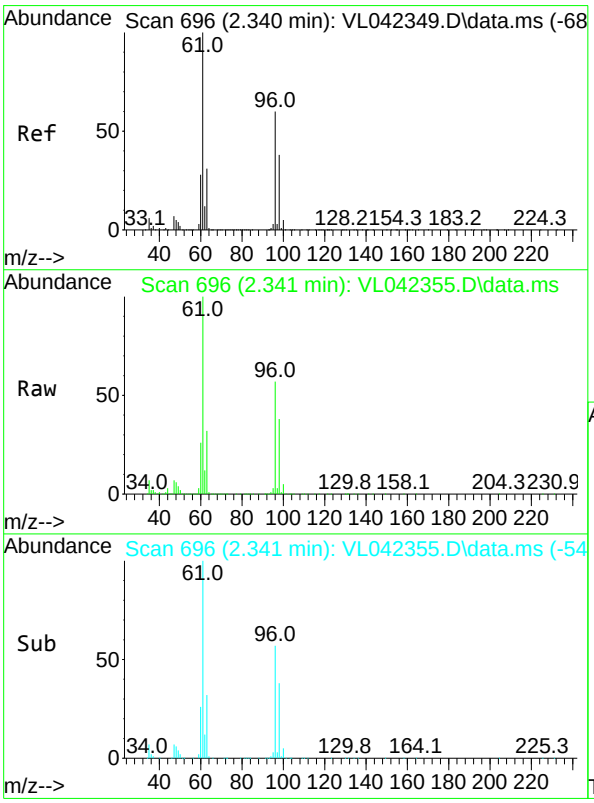
Ion	Ratio	Lower	Upper
41	100		
76	29.3	24.8	37.2
39	75.2	60.6	90.8

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

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

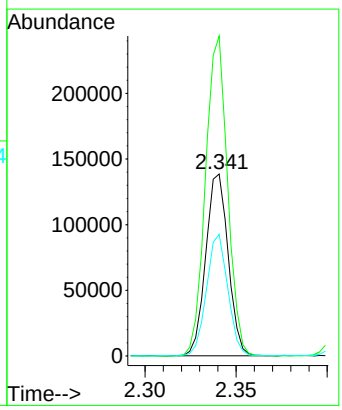


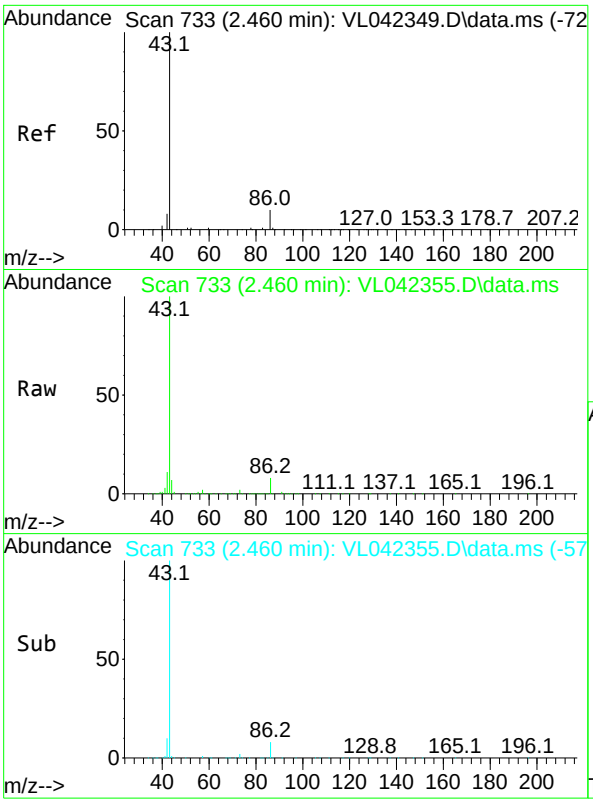


#22
trans-1,2-Dichloroethene
Concen: 13.970 ppbv
RT: 2.341 min Scan# 696
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

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

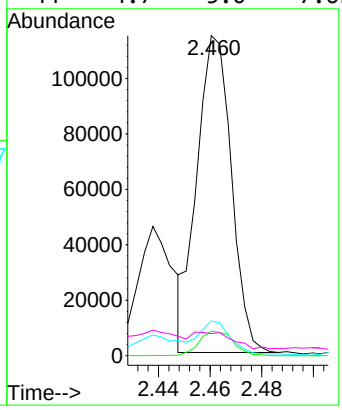




#23
Vinyl Acetate
Concen: 13.799 ppbv
RT: 2.460 min Scan# 7
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 43 Resp: 10613

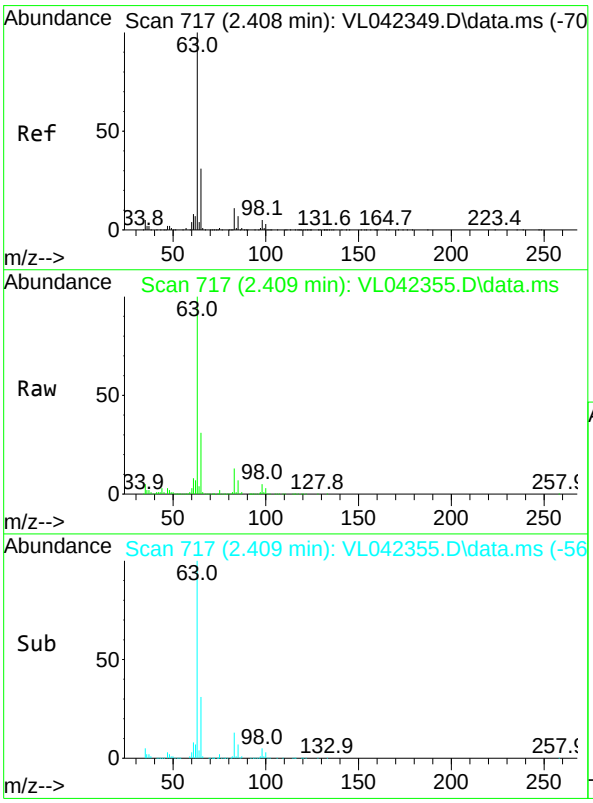
Ion	Ratio	Lower	Upper
43	100		
86	7.8	6.5	9.7
42	10.4	7.8	11.8
44	4.7	5.0	7.6#



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

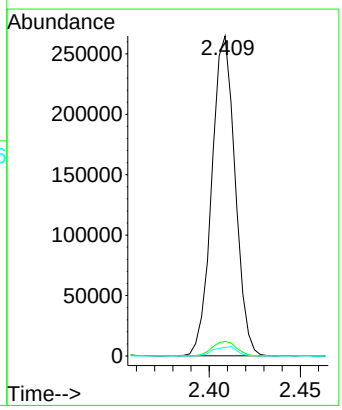
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

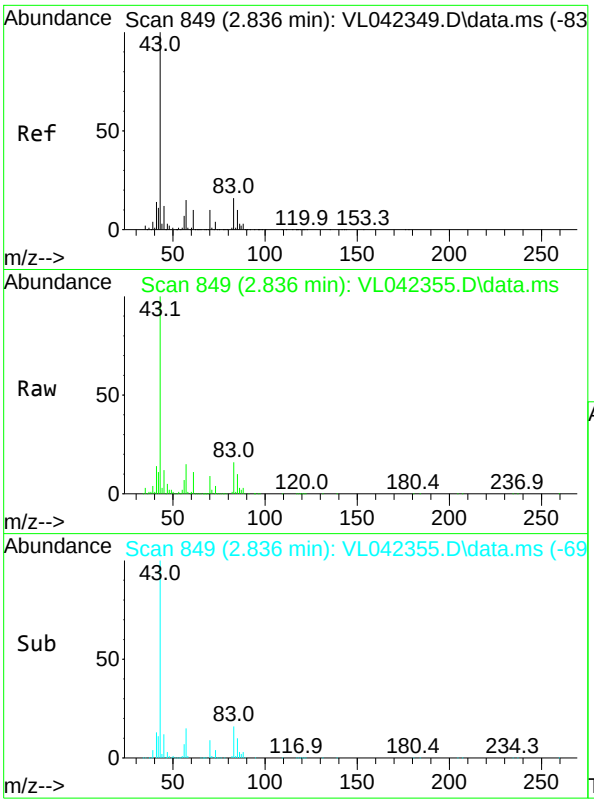


#24
1,1-Dichloroethane
Concen: 14.615 ppbv
RT: 2.409 min Scan# 717
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

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

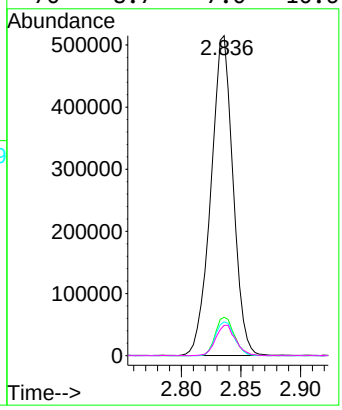




#25
Ethyl Acetate
Concen: 14.166 ppbv
RT: 2.836 min Scan# 84
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 43 Resp: 66364

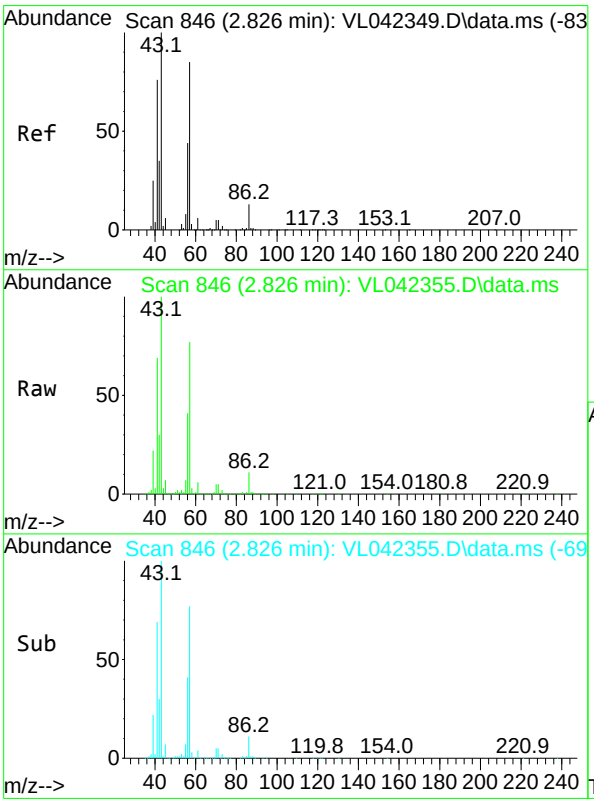
Ion	Ratio	Lower	Upper
43	100		
45	10.4	8.3	12.5
61	9.2	7.3	10.9
70	8.7	7.0	10.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

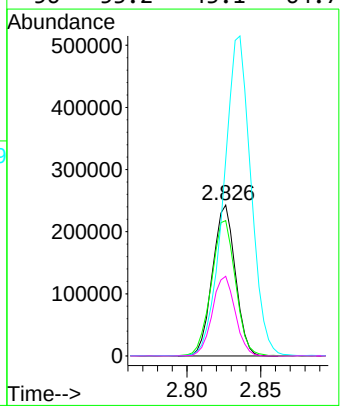
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

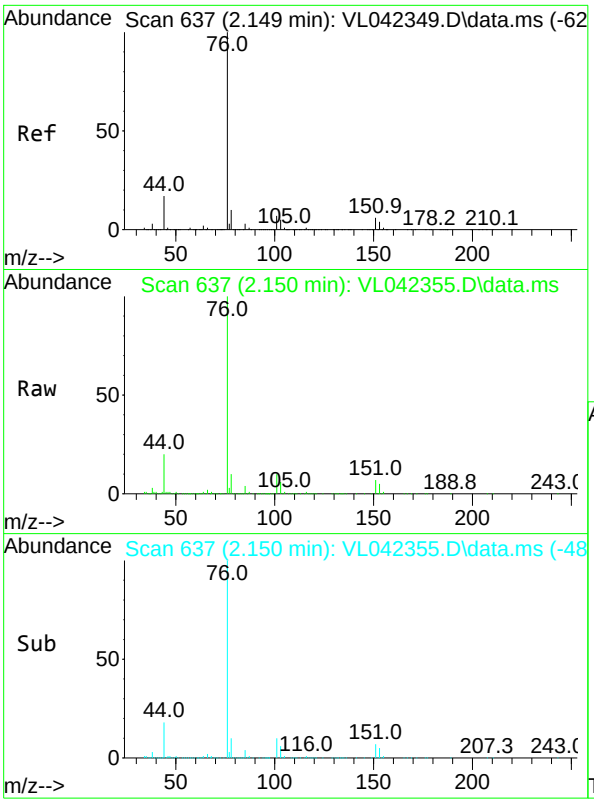


#26
Hexane
Concen: 13.765 ppbv
RT: 2.826 min Scan# 846
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

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

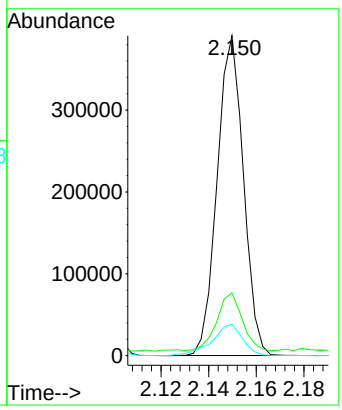




#27
Carbon Disulfide
Concen: 14.734 ppbv
RT: 2.150 min Scan# 6
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 76 Resp: 29909

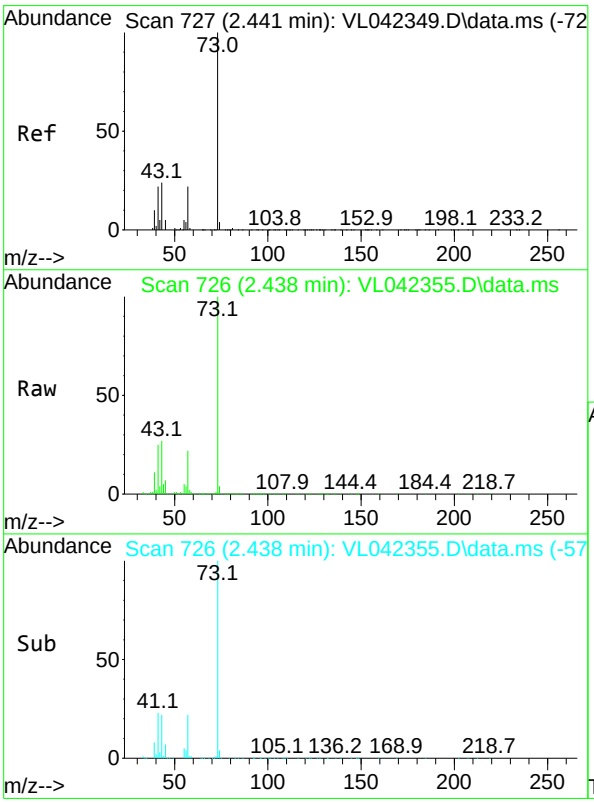
Ion	Ratio	Lower	Upper
76	100		
44	17.3	15.5	23.3
78	11.4	9.3	13.9



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

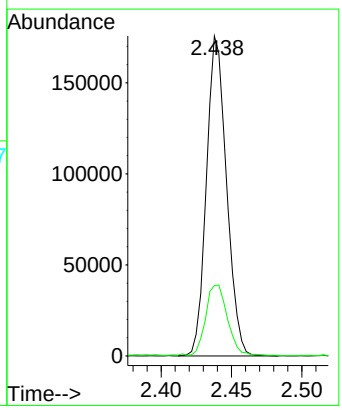
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

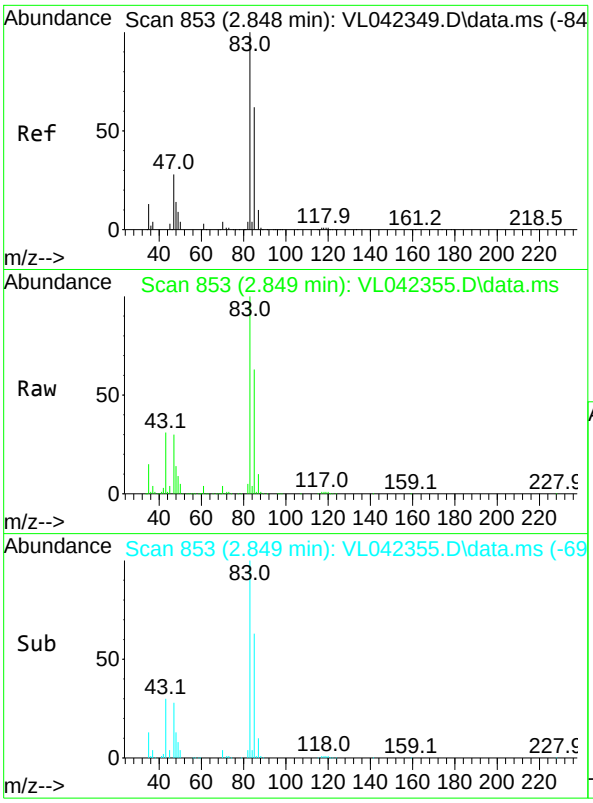


#28
Methyl tert-Butyl Ether
Concen: 14.076 ppbv
RT: 2.438 min Scan# 726
Delta R.T. -0.003 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 73 Resp: 174855

Ion	Ratio	Lower	Upper
73	100		
57	24.3	21.3	31.9

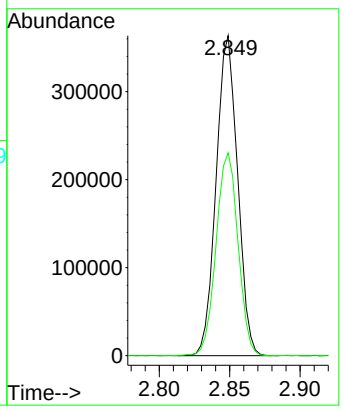




#29
Chloroform
Concen: 14.393 ppbv
RT: 2.849 min Scan# 8
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 83 Resp: 38568

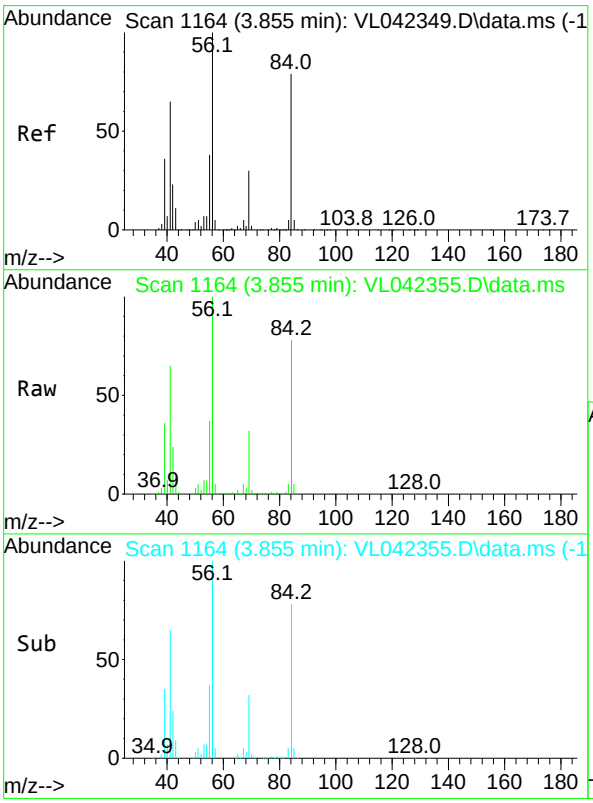
Ion	Ratio	Lower	Upper
83	100		
85	63.4	50.0	75.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

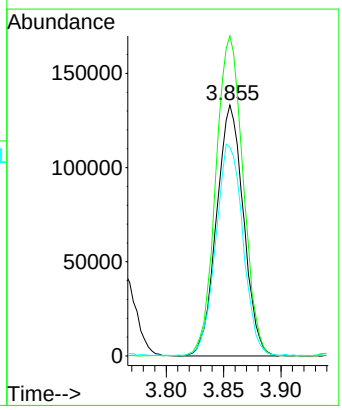
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

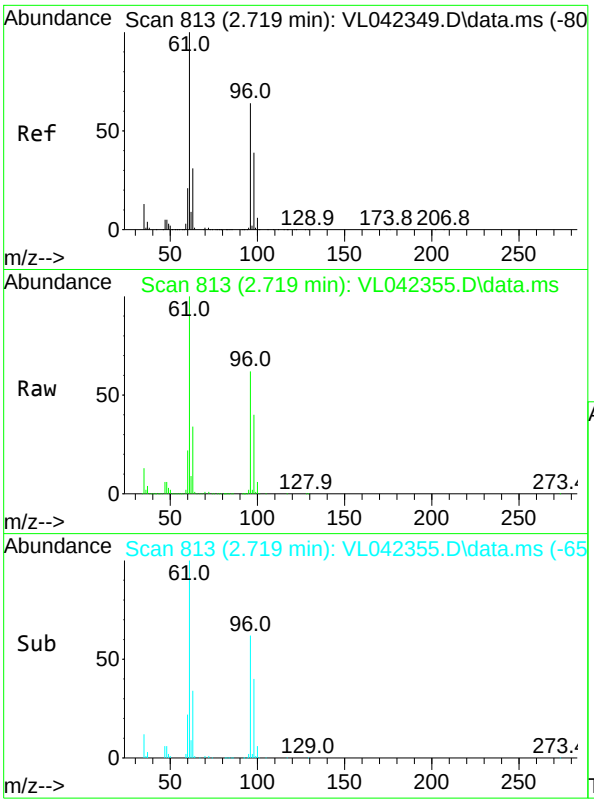


#30
Cyclohexane
Concen: 14.238 ppbv
RT: 3.855 min Scan# 1164
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

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

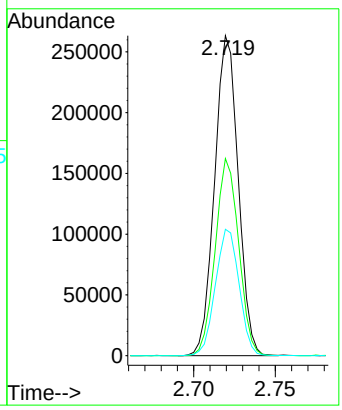




#31
cis-1,2-Dichloroethene
Concen: 14.700 ppbv
RT: 2.719 min Scan# 8
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 61 Resp: 26497

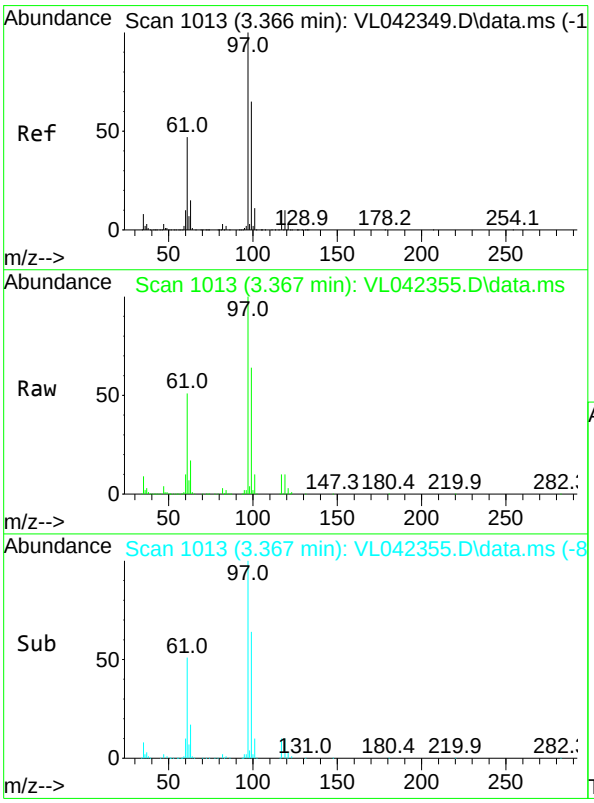
Ion	Ratio	Lower	Upper
61	100		
96	61.6	50.8	76.2
98	39.5	30.9	46.3



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

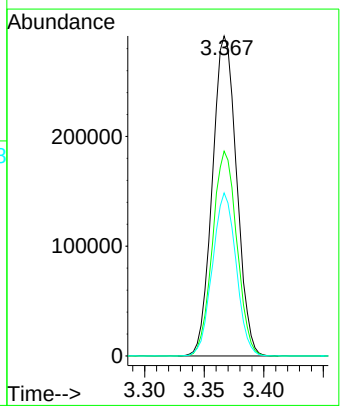
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

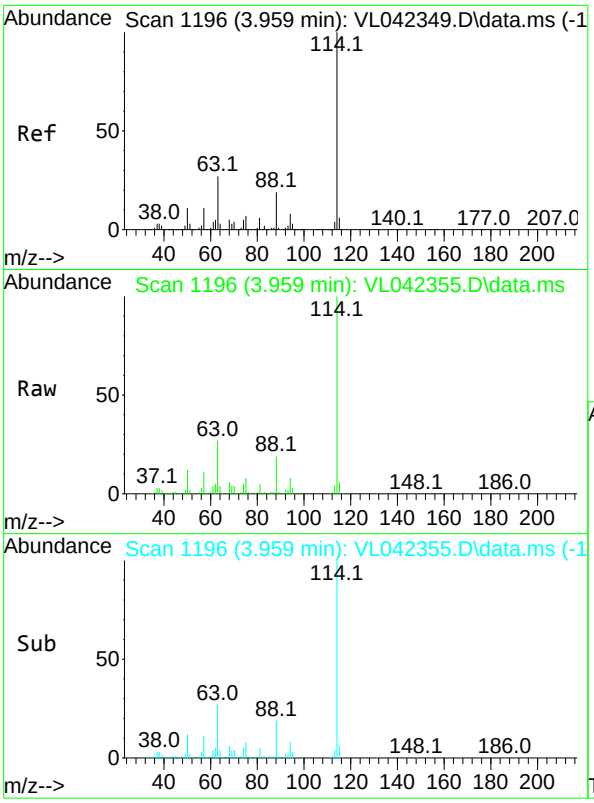


#32
1,1,1-Trichloroethane
Concen: 14.357 ppbv
RT: 3.367 min Scan# 1013
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

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

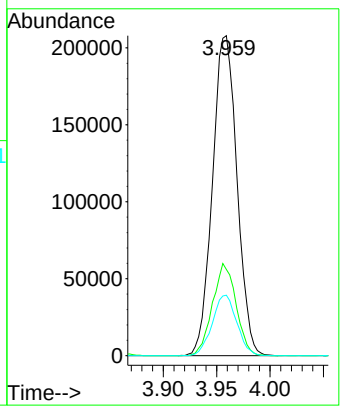




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.959 min Scan# 1
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion:114 Resp: 33208

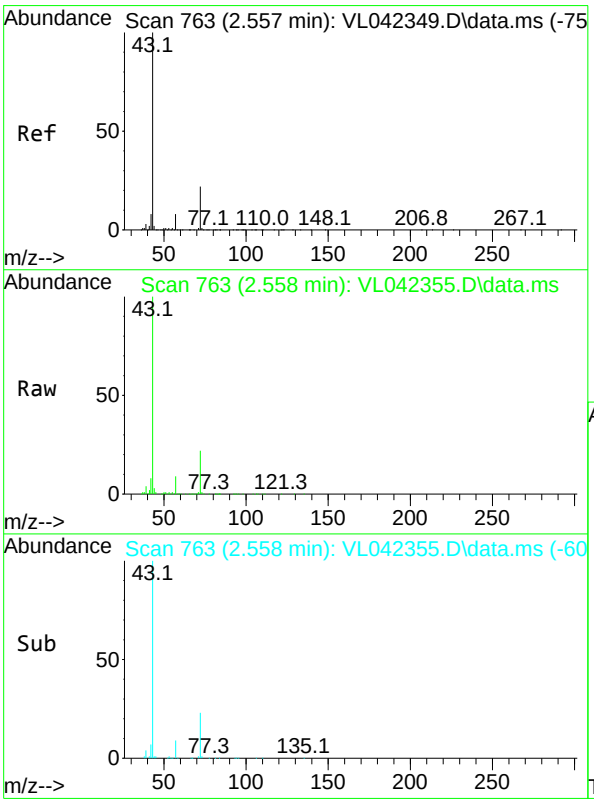
Ion	Ratio	Lower	Upper
114	100		
63	27.7	21.8	32.6
88	18.9	15.5	23.3



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

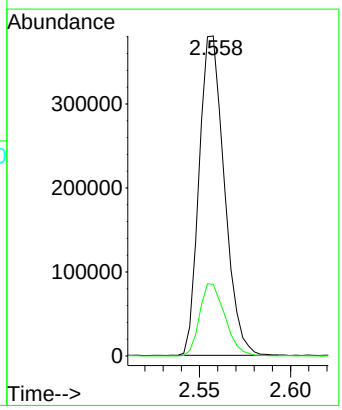
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

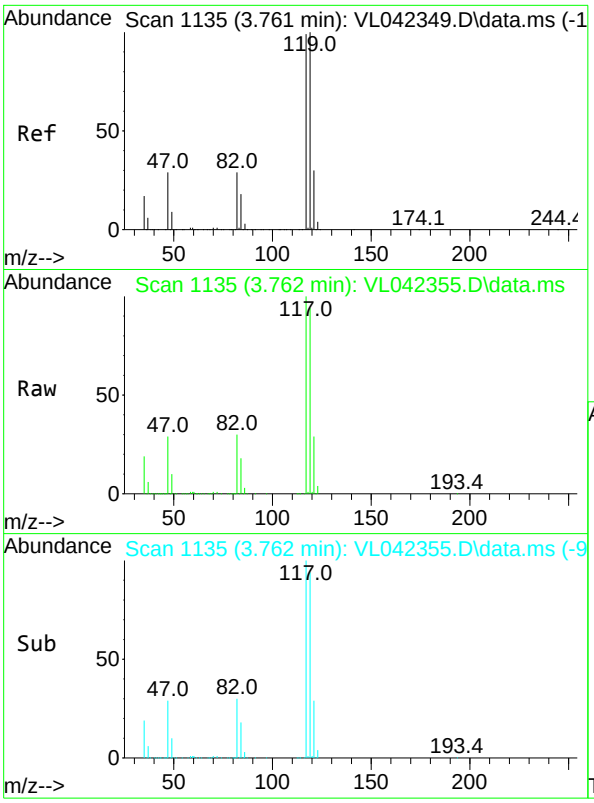


#34
2-Butanone
Concen: 13.986 ppbv
RT: 2.558 min Scan# 763
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 43 Resp: 367315

Ion	Ratio	Lower	Upper
43	100		
72	22.7	18.2	27.2

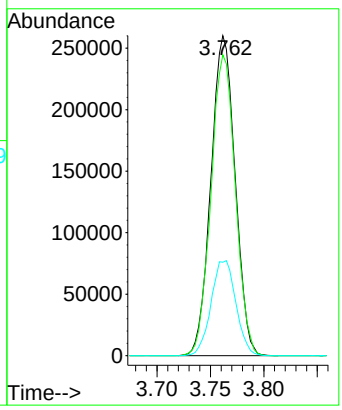




#35
Carbon Tetrachloride
Concen: 13.639 ppbv
RT: 3.762 min Scan# 1
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion:117 Resp: 40991

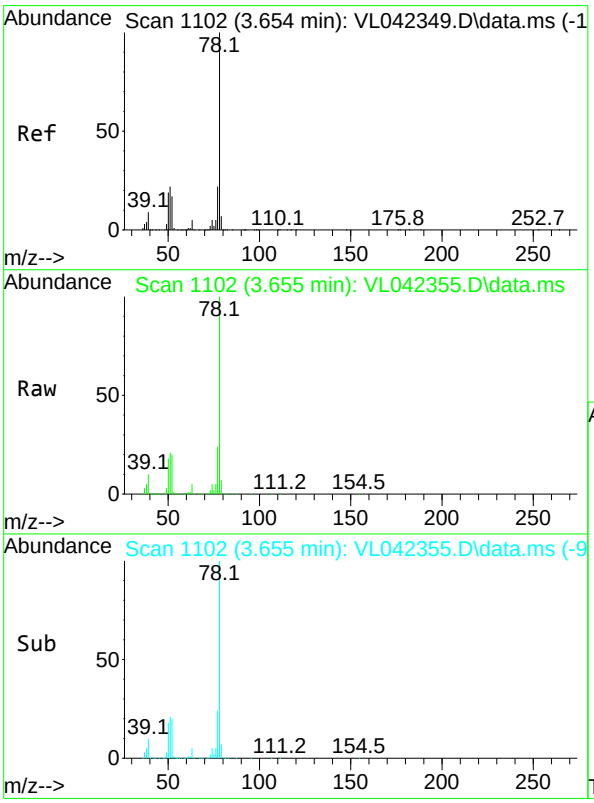
Ion	Ratio	Lower	Upper
117	100		
119	94.0	80.5	120.7
121	29.2	24.2	36.2



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

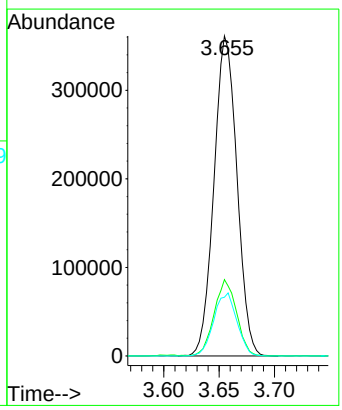
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

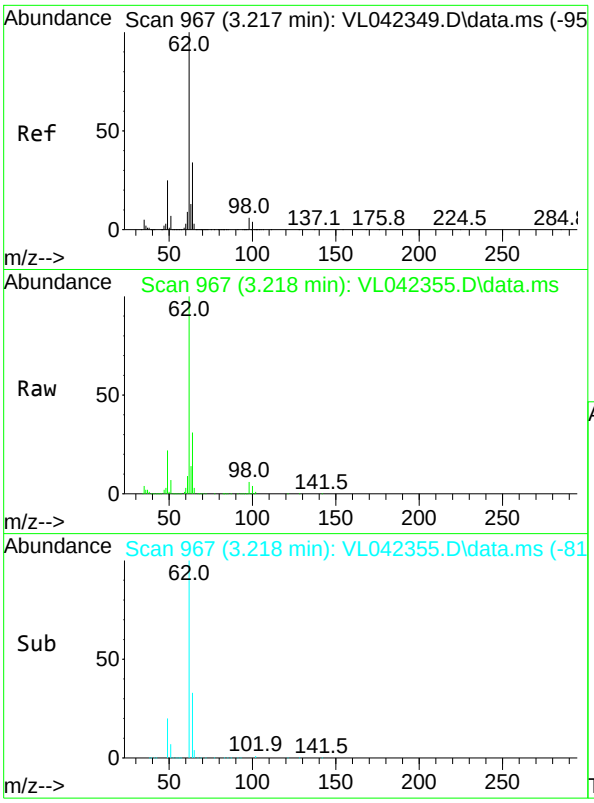


#36
Benzene
Concen: 14.578 ppbv
RT: 3.655 min Scan# 1102
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

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

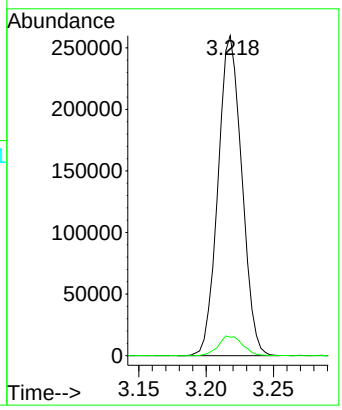




#37
1,2-Dichloroethane
Concen: 14.863 ppbv
RT: 3.218 min Scan# 9
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 62 Resp: 31951

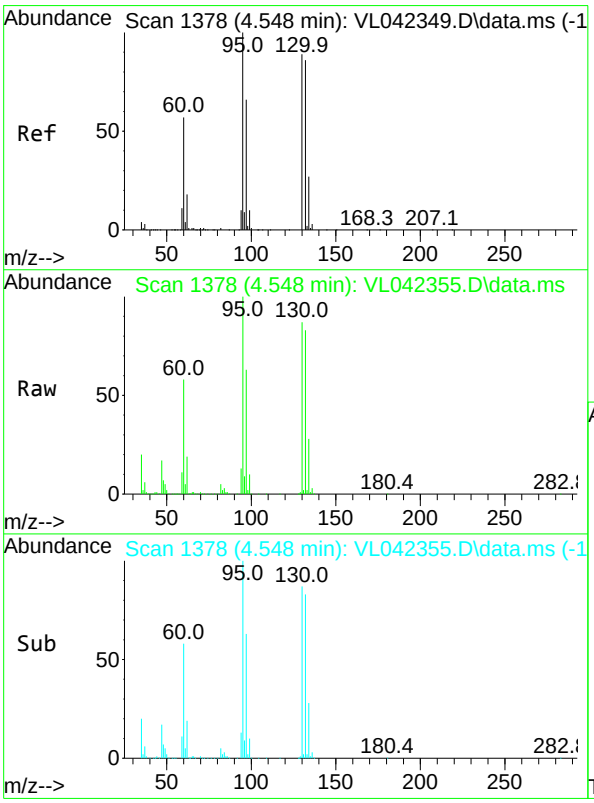
Ion	Ratio	Lower	Upper
62	100		
98	6.3	5.1	7.7



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

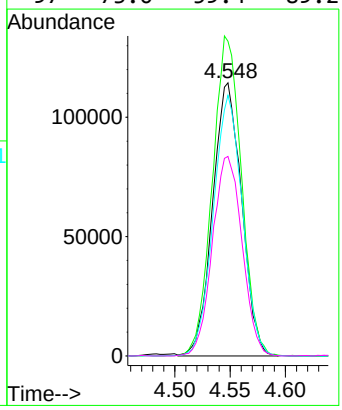
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

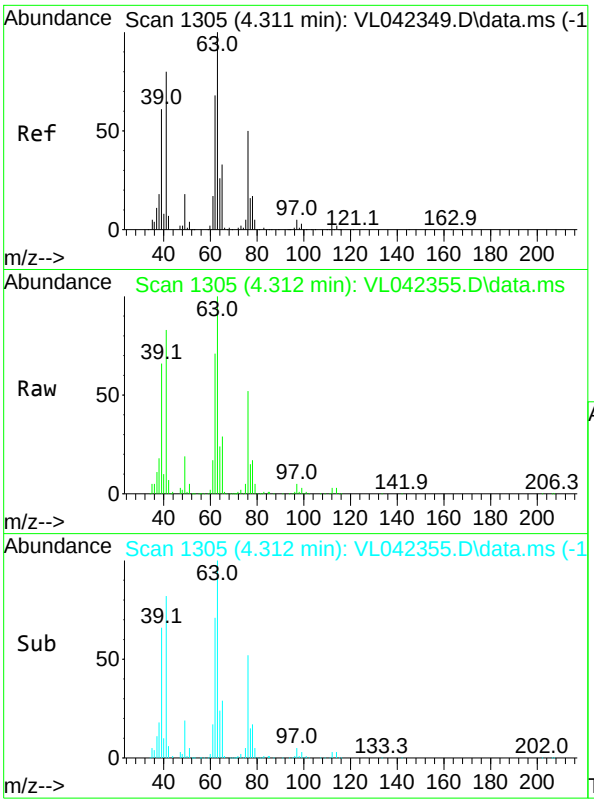


#38
Trichloroethene
Concen: 13.278 ppbv
RT: 4.548 min Scan# 1378
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

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

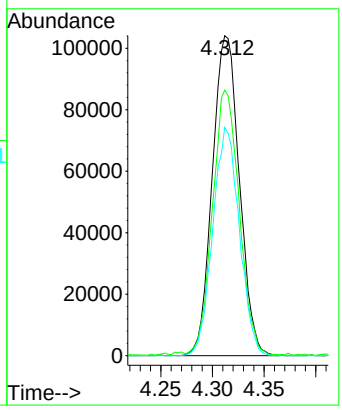




#39
1,2-Dichloropropane
Concen: 14.201 ppbv
RT: 4.312 min Scan# 1
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 63 Resp: 18969

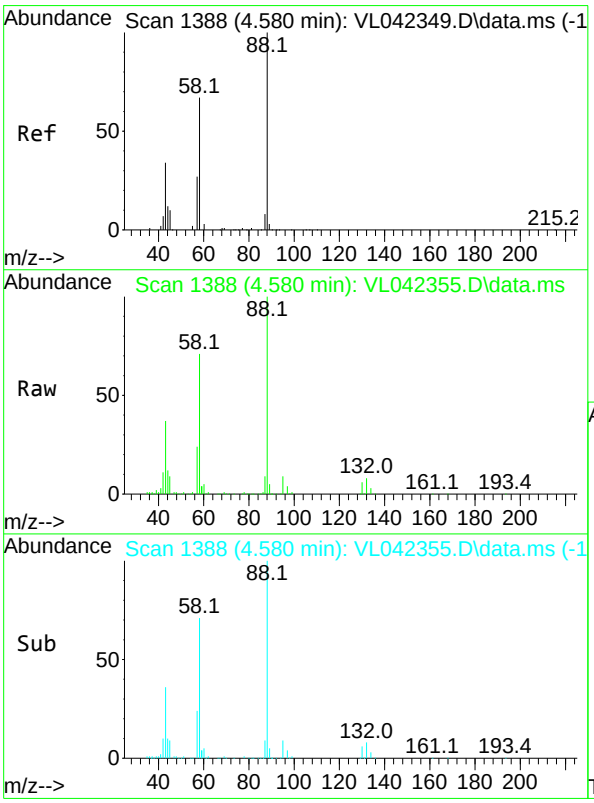
Ion	Ratio	Lower	Upper
63	100		
41	82.7	64.2	96.2
62	71.4	54.3	81.5



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

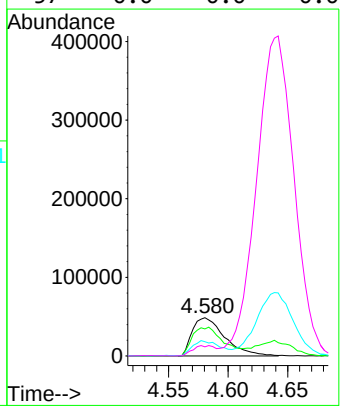
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

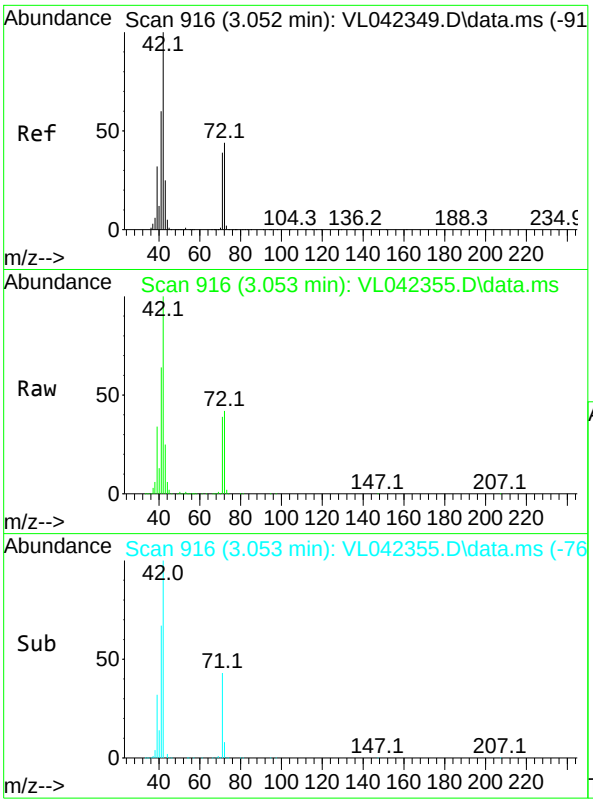


#40
1,4-Dioxane
Concen: 12.733 ppbv
RT: 4.580 min Scan# 1388
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

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

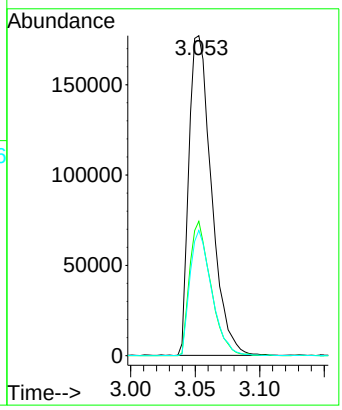




#41
Tetrahydrofuran
Concen: 14.166 ppbv
RT: 3.053 min Scan# 9
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 42 Resp: 21494

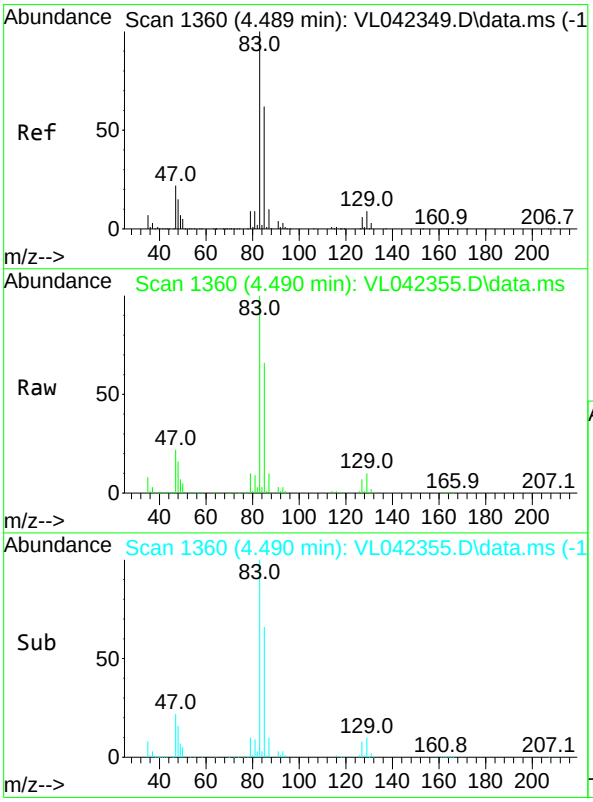
Ion	Ratio	Lower	Upper
42	100		
72	39.7	32.3	48.5
71	37.9	31.4	47.2



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

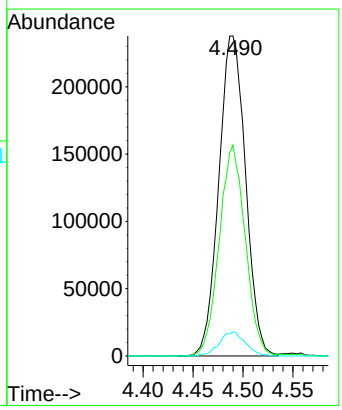
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

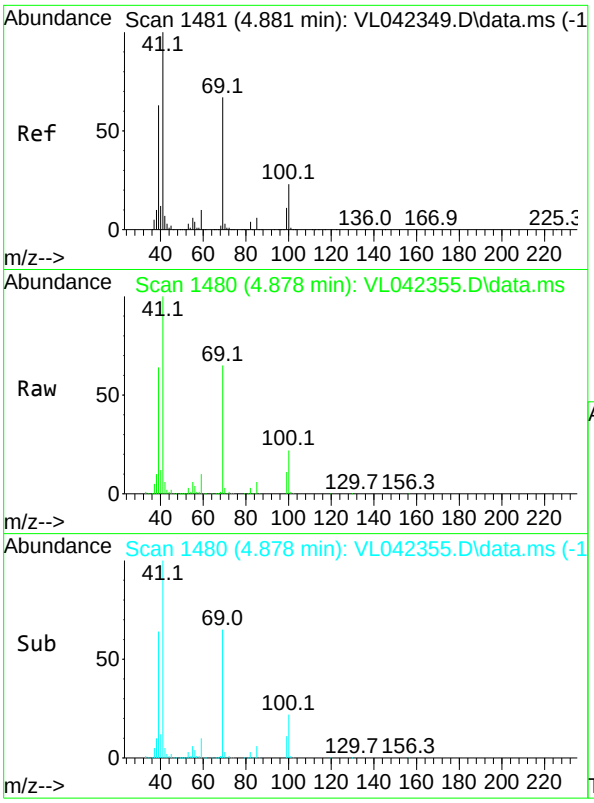


#42
Bromodichloromethane
Concen: 14.798 ppbv
RT: 4.490 min Scan# 1360
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

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

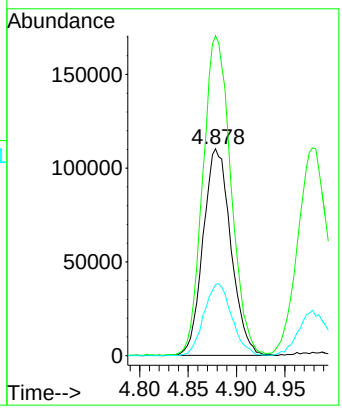




#43
Methyl Methacrylate
Concen: 13.670 ppbv
RT: 4.878 min Scan# 14
Delta R.T. -0.003 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 69 Resp: 21975

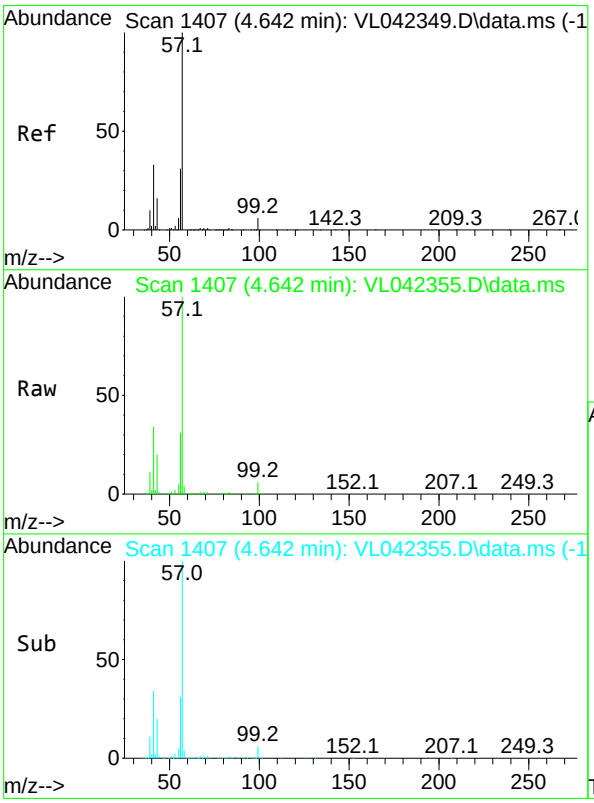
Ion	Ratio	Lower	Upper
69	100		
41	156.6	118.6	177.8
100	35.2	28.2	42.2



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

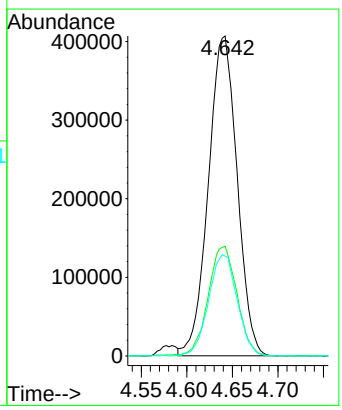
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

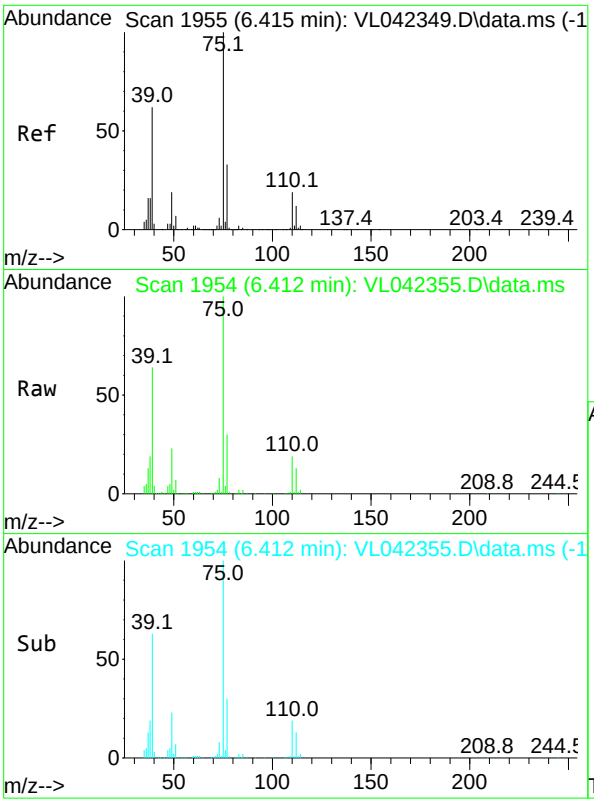


#44
2,2,4-Trimethylpentane
Concen: 14.425 ppbv
RT: 4.642 min Scan# 1407
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

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

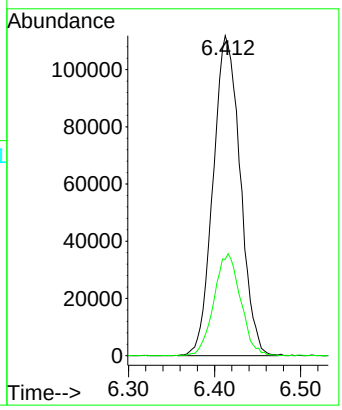




#45
t-1,3-Dichloropropene
Concen: 14.810 ppbv
RT: 6.412 min Scan# 1
Delta R.T. -0.003 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 75 Resp: 24447

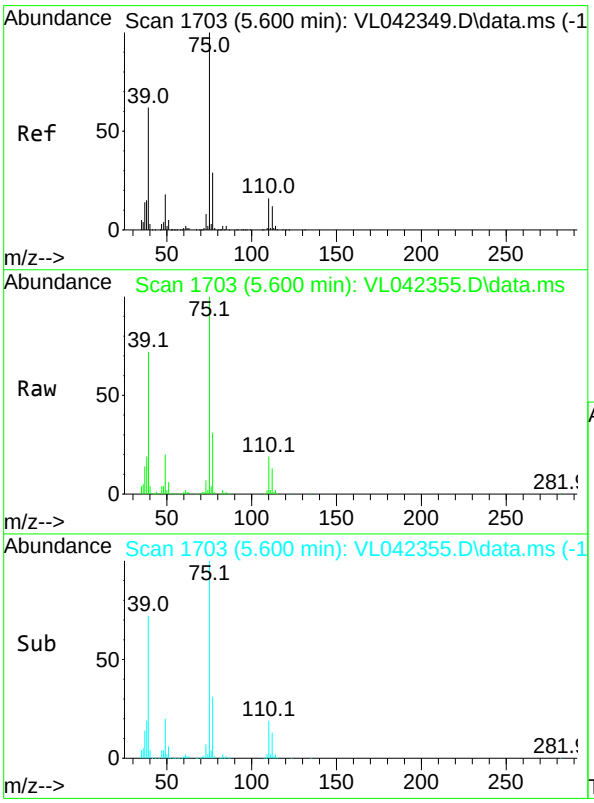
Ion	Ratio	Lower	Upper
75	100		
77	30.1	27.0	40.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

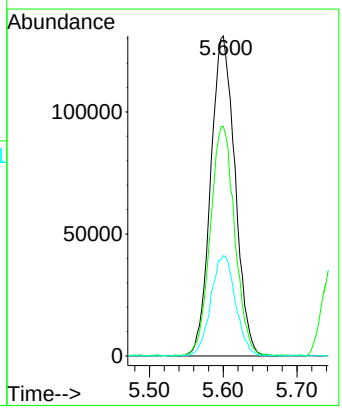
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

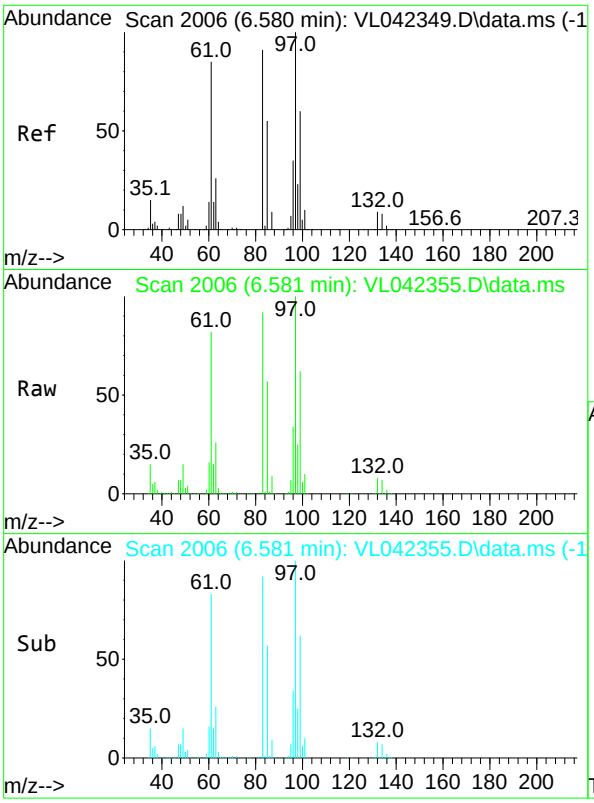


#46
cis-1,3-Dichloropropene
Concen: 14.878 ppbv
RT: 5.600 min Scan# 1703
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

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

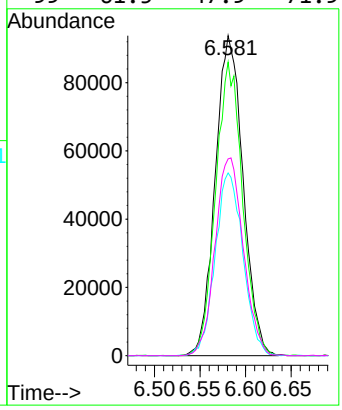




#47
1,1,2-Trichloroethane
Concen: 14.615 ppbv
RT: 6.581 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 97 Resp: 19887

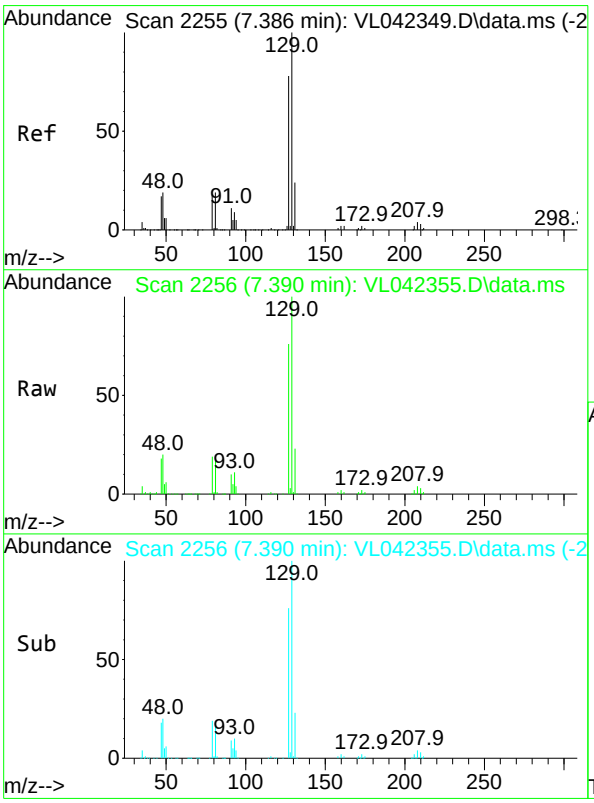
Ion	Ratio	Lower	Upper
97	100		
83	91.7	72.8	109.2
85	57.0	44.2	66.4
99	61.5	47.9	71.9



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

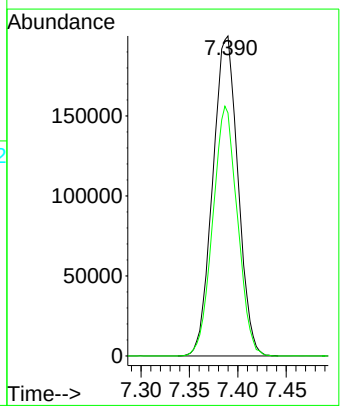
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

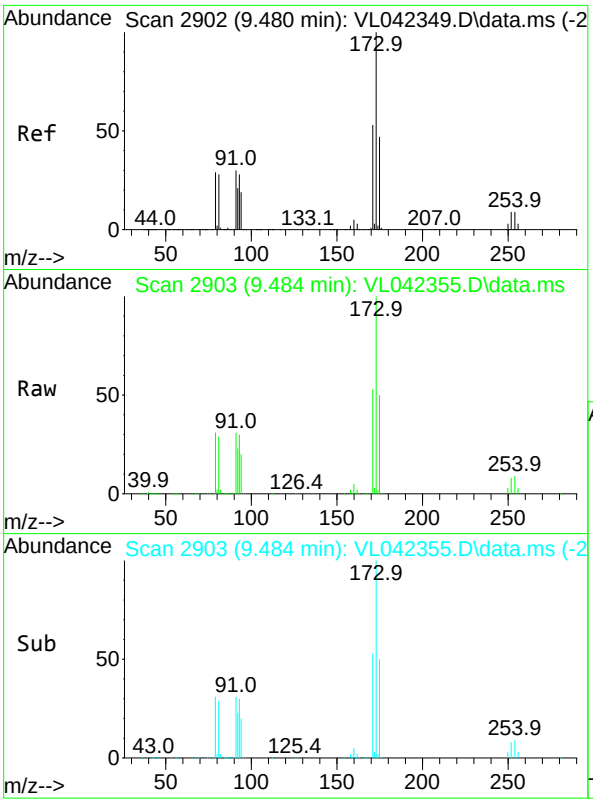


#48
Dibromochloromethane
Concen: 15.105 ppbv
RT: 7.390 min Scan# 2256
Delta R.T. 0.004 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion:129 Resp: 362887

Ion	Ratio	Lower	Upper
129	100		
127	76.3	39.1	117.3

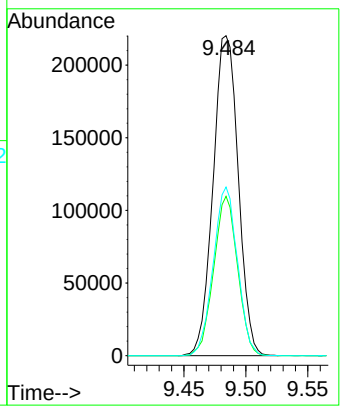




#49
Bromoform
Concen: 14.865 ppbv
RT: 9.484 min Scan# 2
Delta R.T. 0.004 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion:173 Resp: 31228

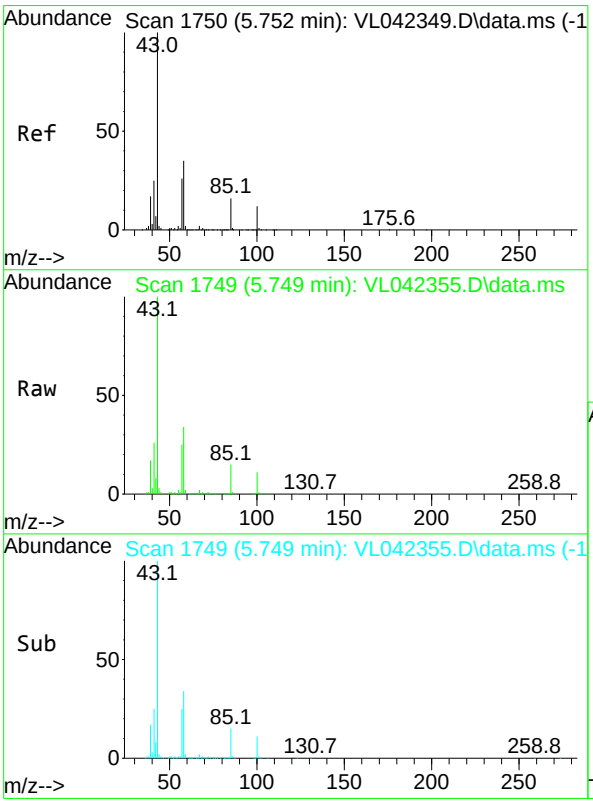
Ion	Ratio	Lower	Upper
173	100		
175	47.3	38.2	57.2
171	50.6	40.9	61.3



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

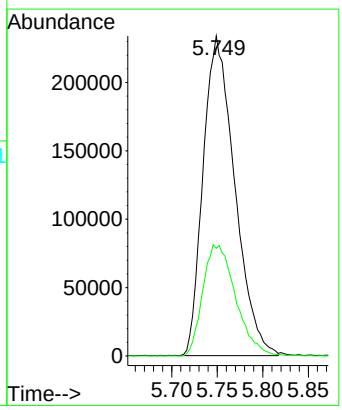
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

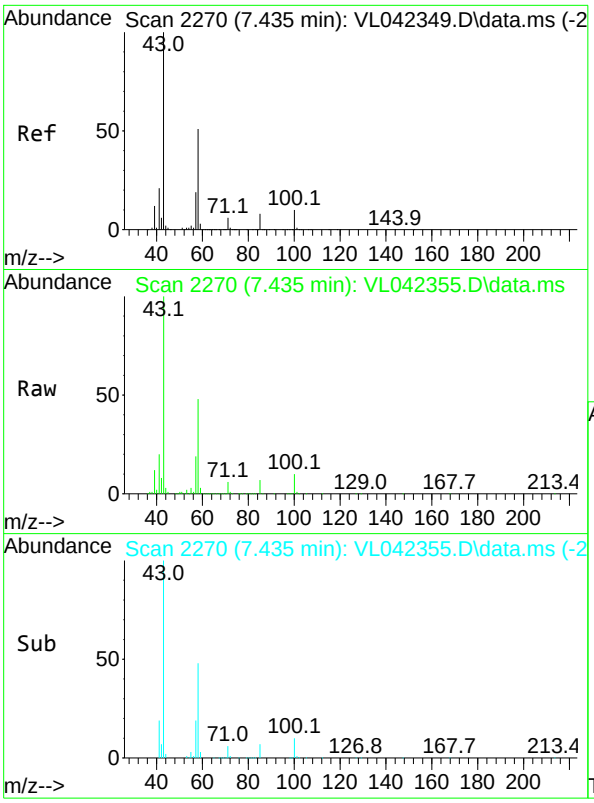


#50
4-Methyl-2-Pentanone
Concen: 12.889 ppbv
RT: 5.749 min Scan# 1749
Delta R.T. -0.003 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 43 Resp: 563658

Ion	Ratio	Lower	Upper
43	100		
58	36.3	28.6	43.0

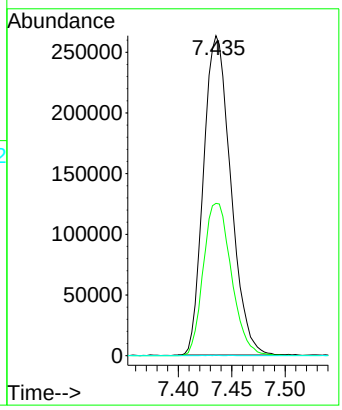




#51
2-Hexanone
Concen: 11.834 ppbv
RT: 7.435 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 43 Resp: 46700

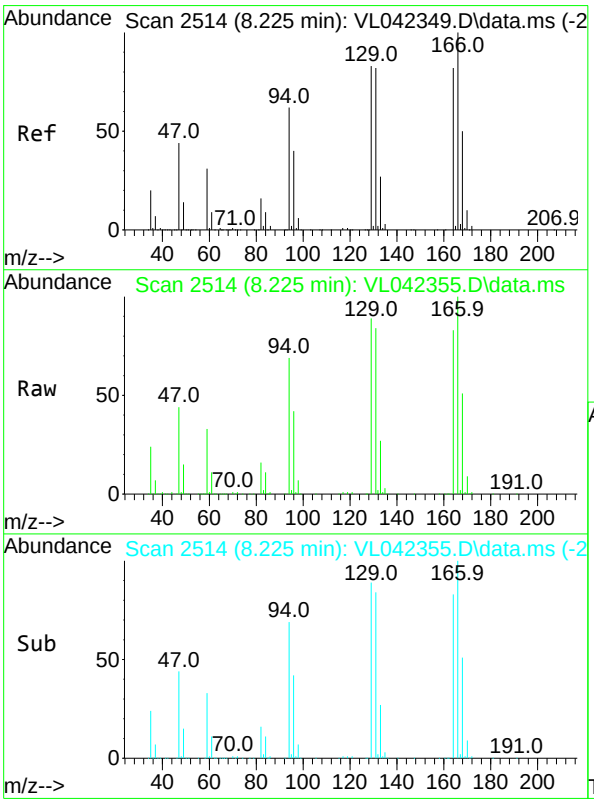
Ion	Ratio	Lower	Upper
43	100		
58	49.2	40.2	60.4
98	0.0	0.1	0.1



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

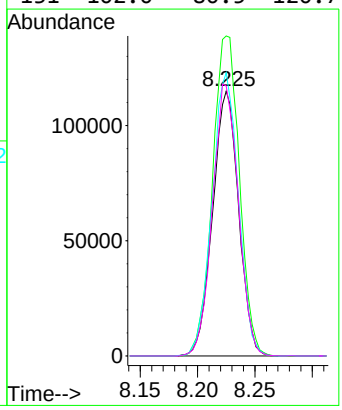
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

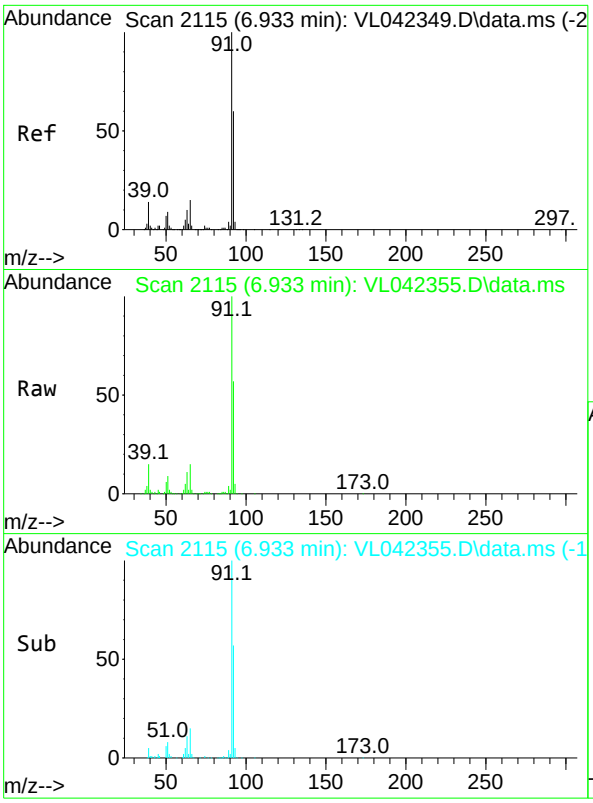


#52
Tetrachloroethene
Concen: 13.046 ppbv
RT: 8.225 min Scan# 2514
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

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

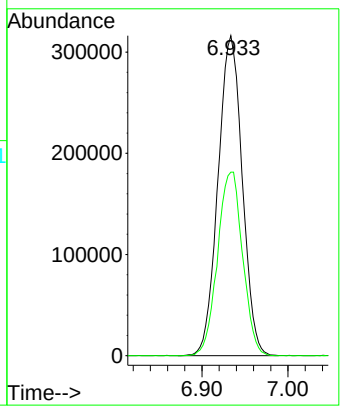




#53
Toluene
Concen: 14.411 ppbv
RT: 6.933 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 91 Resp: 61942

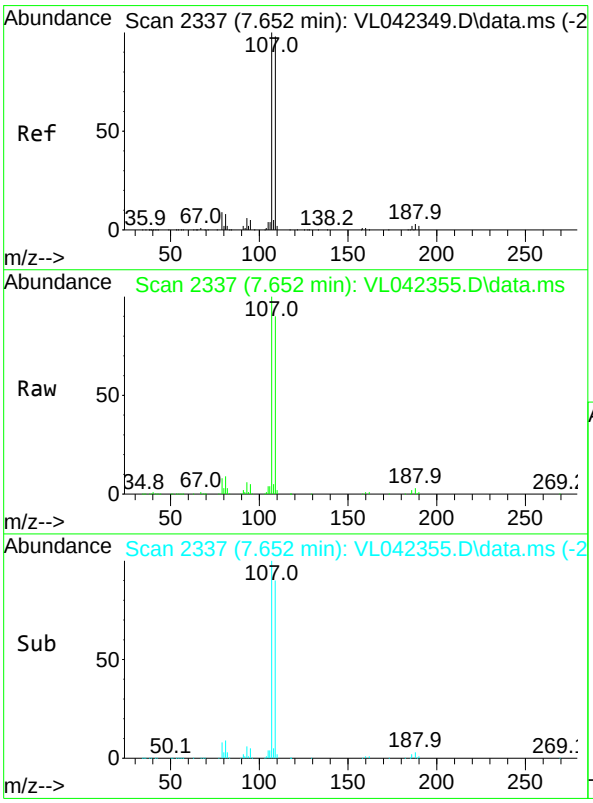
Ion	Ratio	Lower	Upper
91	100		
92	59.3	48.2	72.4



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

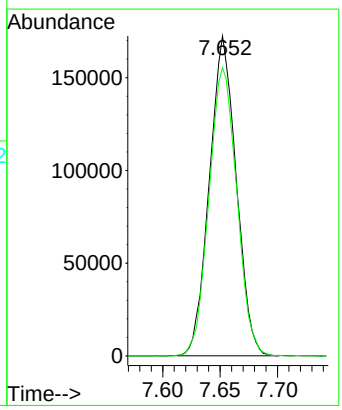
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

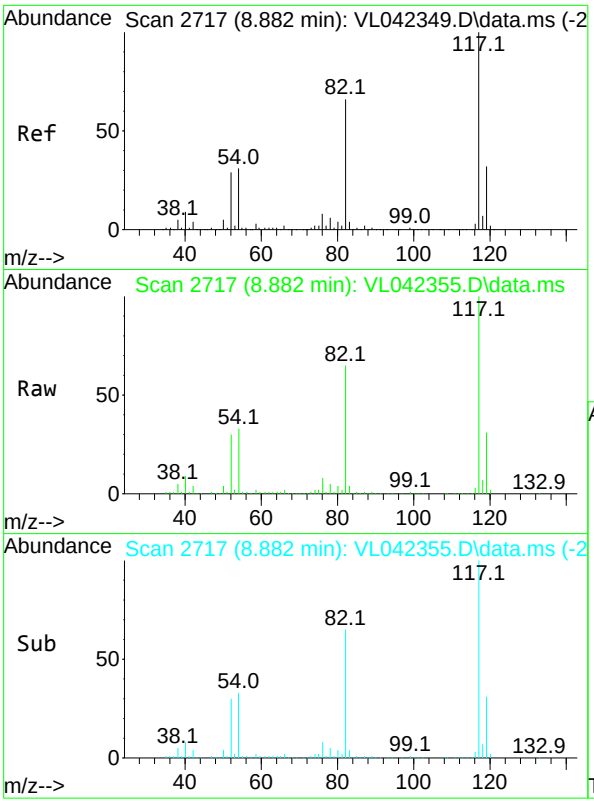


#54
1,2-Dibromoethane
Concen: 14.442 ppbv
RT: 7.652 min Scan# 2337
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion:107 Resp: 280071

Ion	Ratio	Lower	Upper
107	100		
109	89.9	78.2	117.4

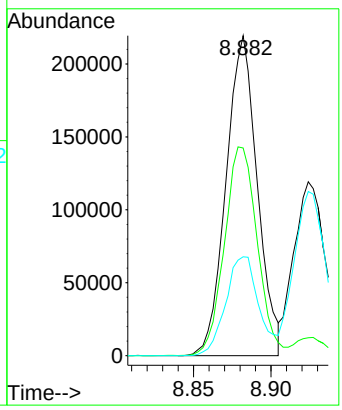




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.882 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion:117 Resp: 30846

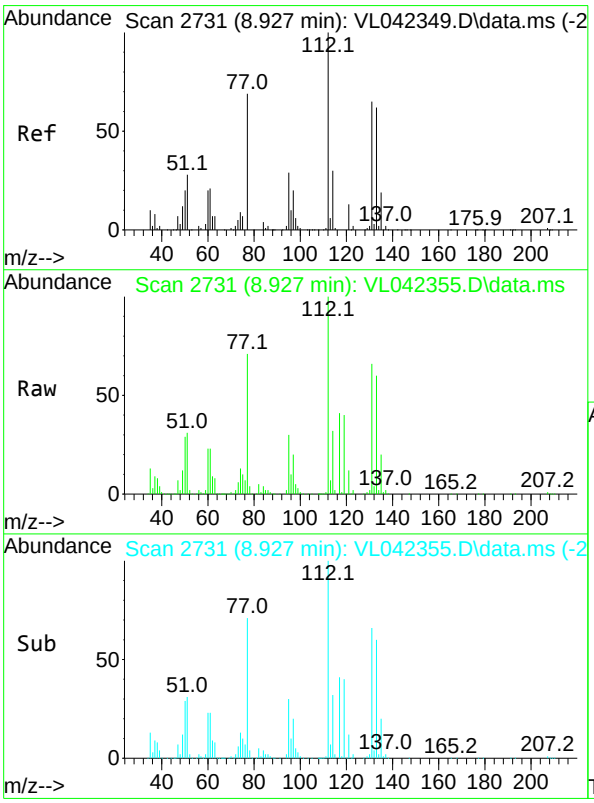
Ion	Ratio	Lower	Upper
117	100		
82	74.2	57.8	86.6
119	31.4	25.2	37.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

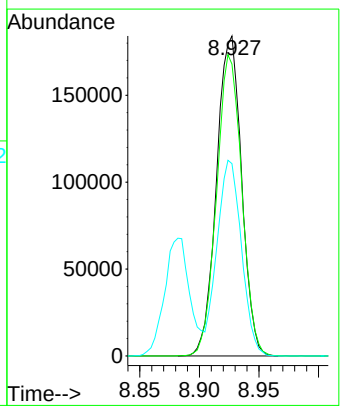
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

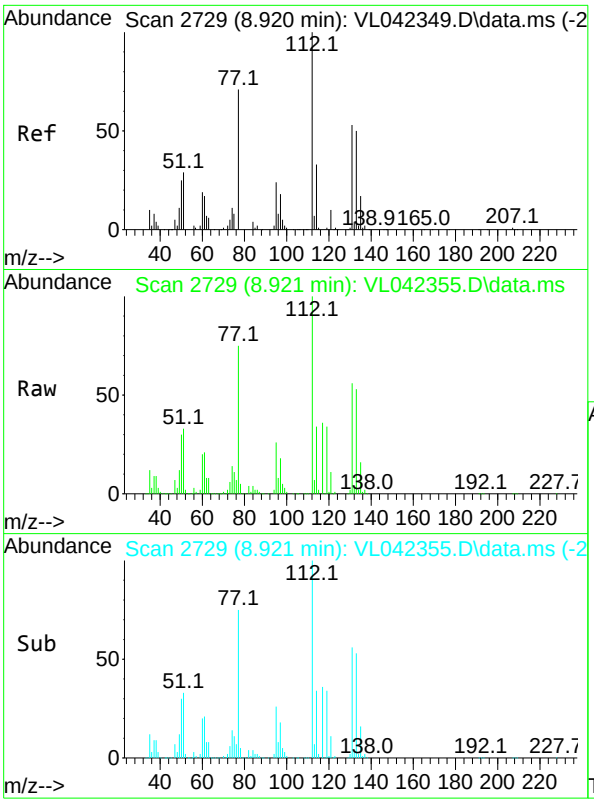


#56
1,1,1,2-Tetrachloroethane
Concen: 14.389 ppbv
RT: 8.927 min Scan# 2731
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

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

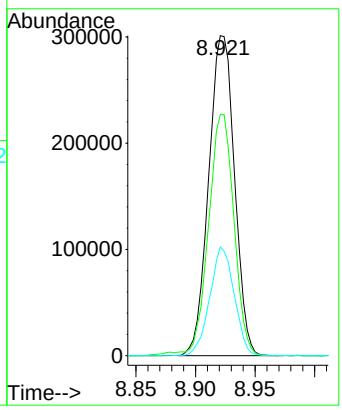
Tgt Ion:112 Resp: 45401

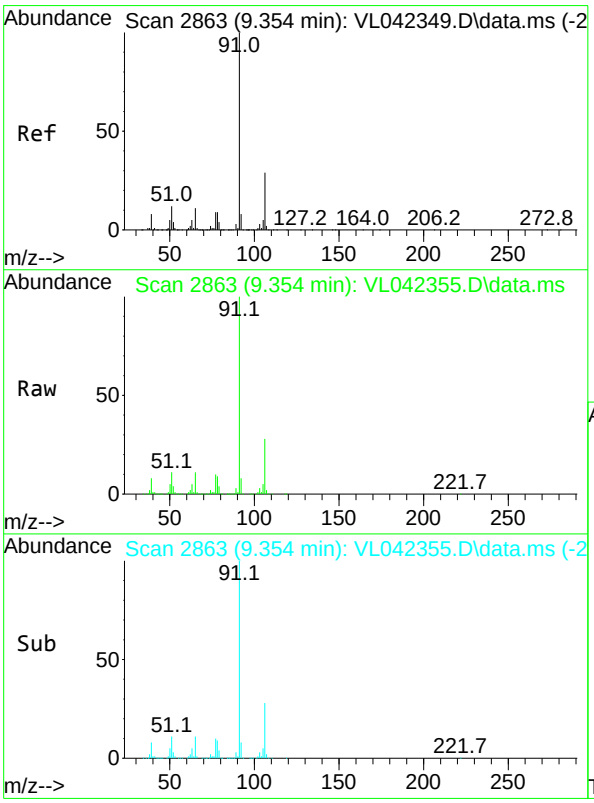
Ion	Ratio	Lower	Upper
112	100		
77	75.3	57.8	86.6
114	33.9	29.3	35.9

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

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

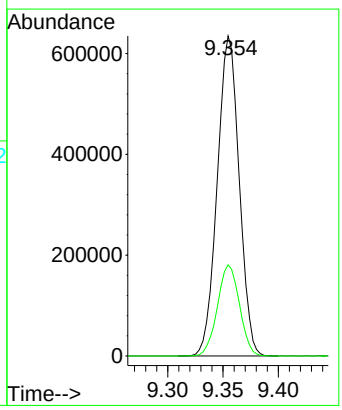


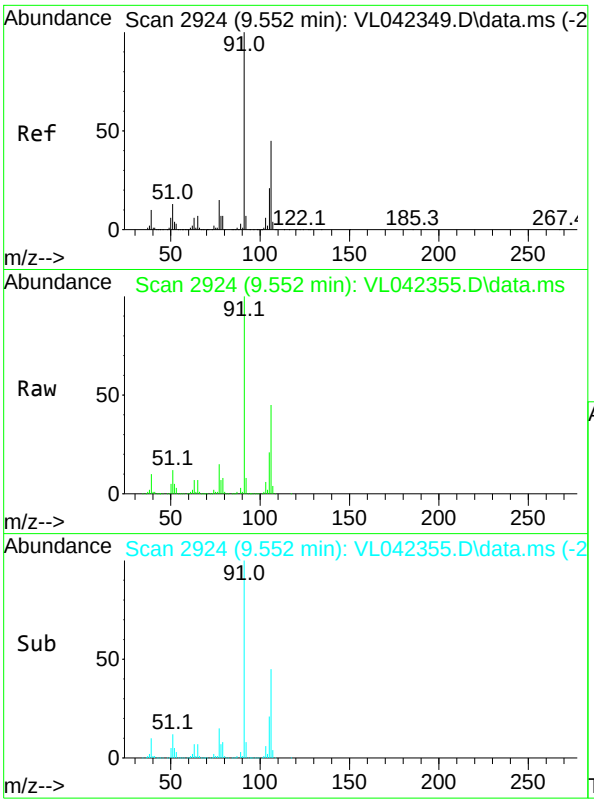


#58
Ethyl Benzene
Concen: 14.308 ppbv
RT: 9.354 min Scan# 2863
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 91 Resp: 874424

Ion	Ratio	Lower	Upper
91	100		
106	28.5	23.0	34.4

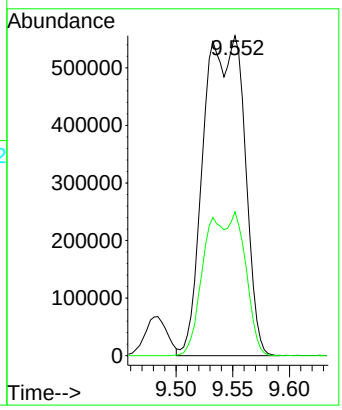




#59
m/p-Xylene
Concen: 28.109 ppbv m
RT: 9.552 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 91 Resp: 138808

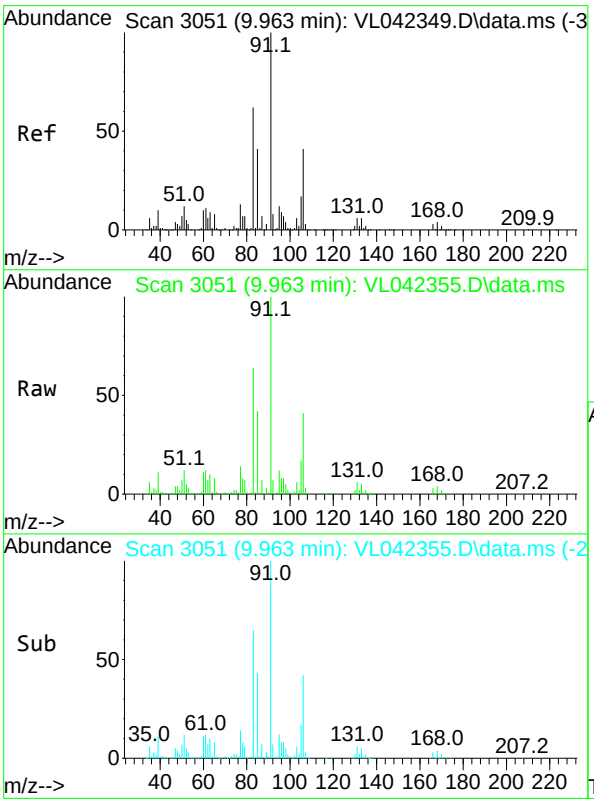
Ion	Ratio	Lower	Upper
91	100		
106	44.5	35.4	53.2



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

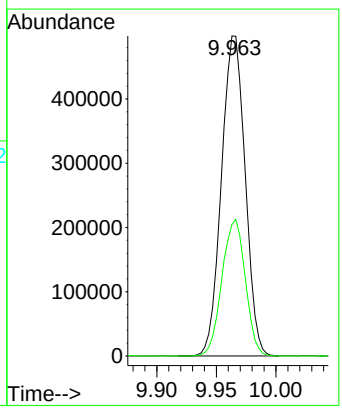
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

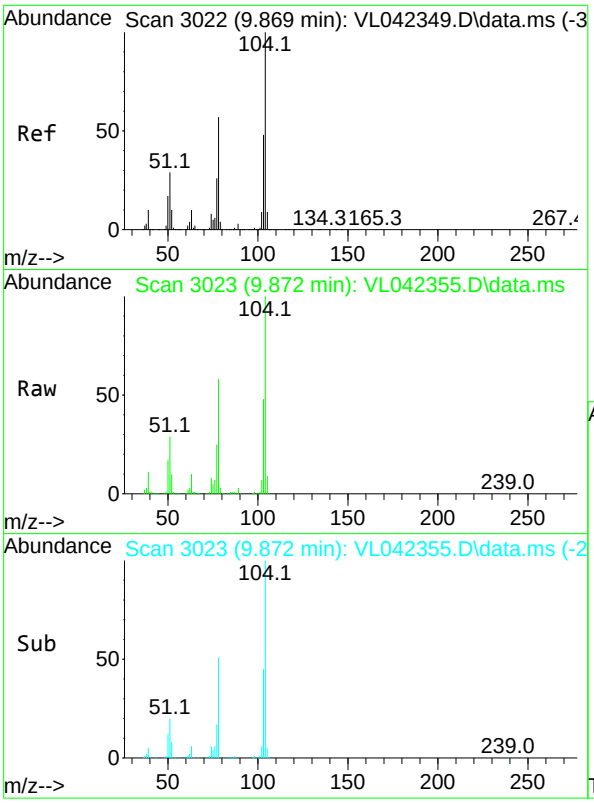


#60
o-Xylene
Concen: 13.902 ppbv
RT: 9.963 min Scan# 3051
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 91 Resp: 689246

Ion	Ratio	Lower	Upper
91	100		
106	41.9	21.1	63.4

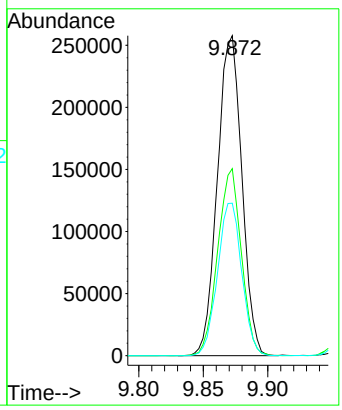




#61
Styrene
Concen: 14.347 ppbv
RT: 9.872 min Scan# 3
Delta R.T. 0.004 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion:104 Resp: 33950

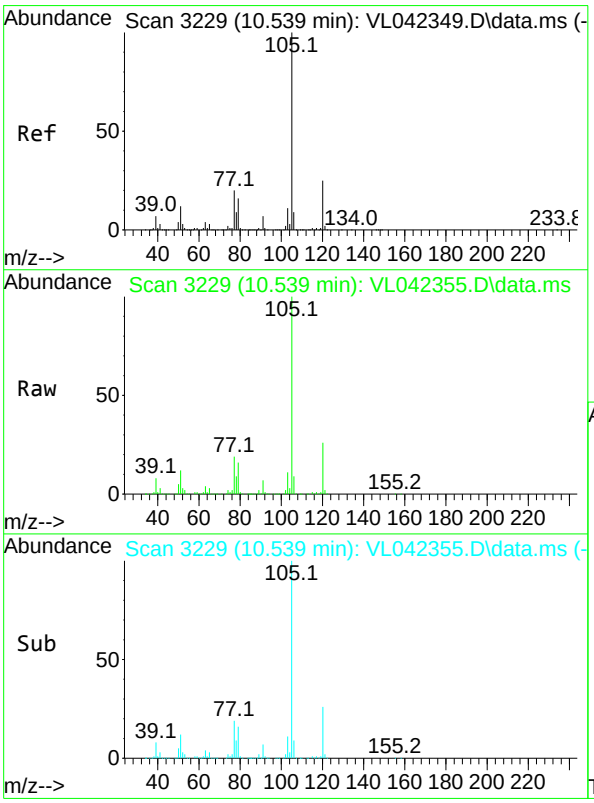
Ion	Ratio	Lower	Upper
104	100		
78	56.4	44.6	66.8
103	47.3	37.4	56.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

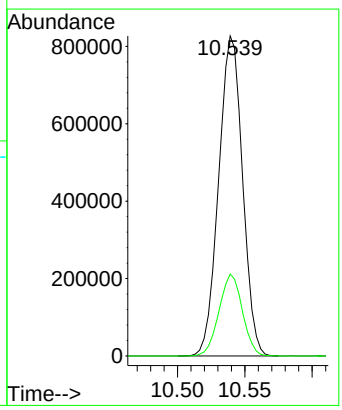
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

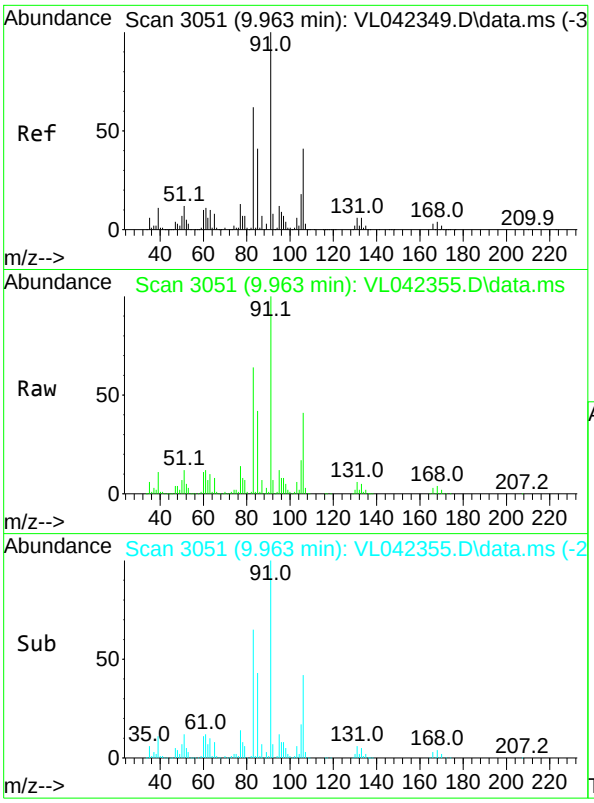


#62
Isopropylbenzene
Concen: 13.999 ppbv
RT: 10.539 min Scan# 3229
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion:105 Resp: 1018968

Ion	Ratio	Lower	Upper
105	100		
120	25.0	19.8	29.8

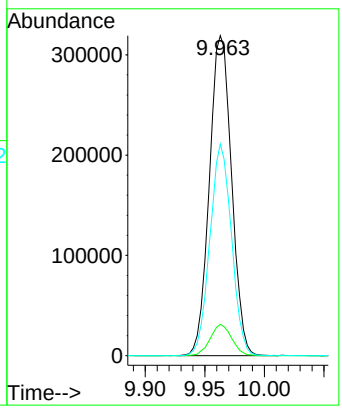




#63
1,1,2,2-Tetrachloroethane
Concen: 12.816 ppbv
RT: 9.963 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 83 Resp: 41289

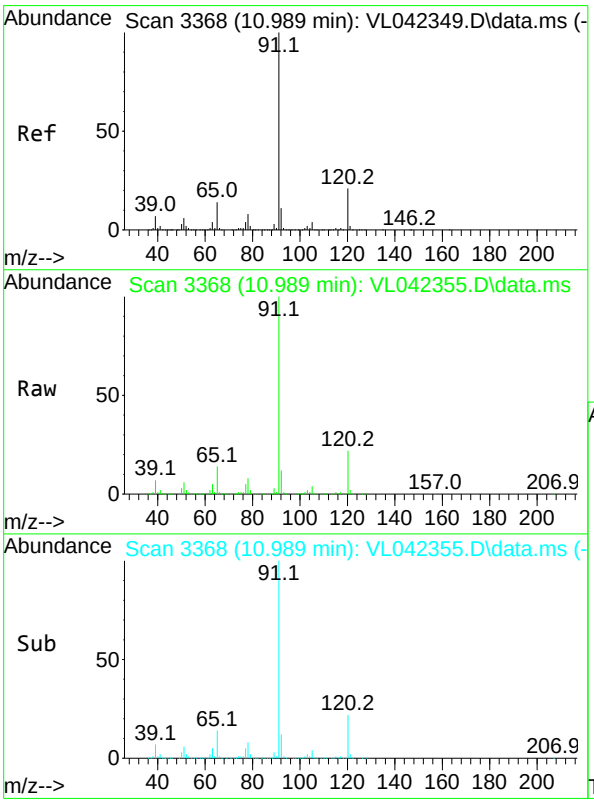
Ion	Ratio	Lower	Upper
83	100		
131	9.5	4.5	13.7
85	64.5	32.4	97.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

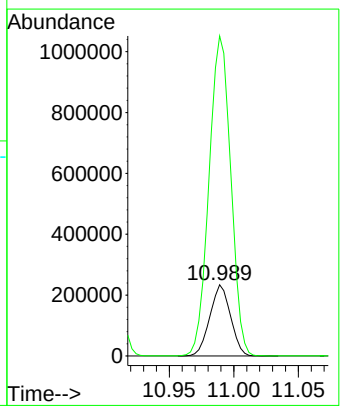
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

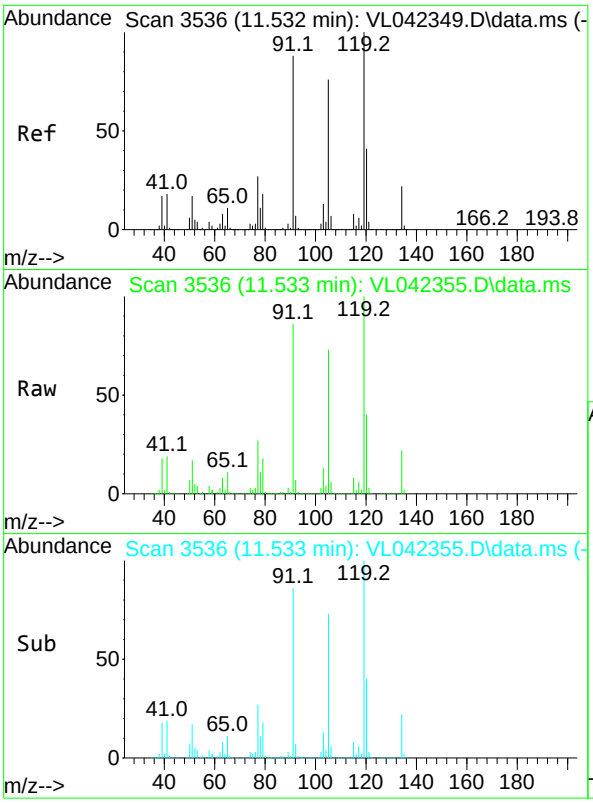


#64
n-propylbenzene
Concen: 14.255 ppbv
RT: 10.989 min Scan# 3368
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion:120 Resp: 260812

Ion	Ratio	Lower	Upper
120	100		
91	473.2	392.4	588.6

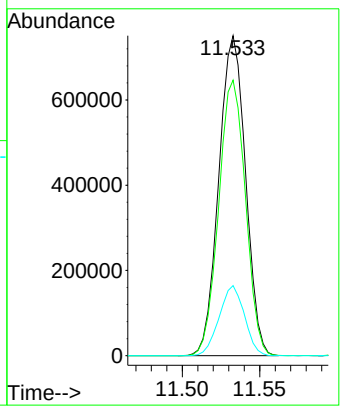




#65
tert-Butylbenzene
Concen: 13.449 ppbv
RT: 11.533 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion:119 Resp: 89972

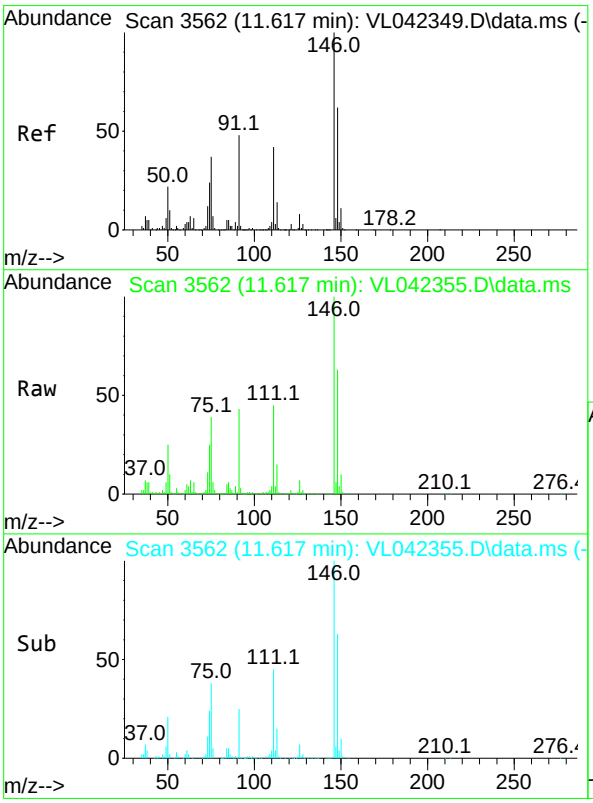
Ion	Ratio	Lower	Upper
119	100		
91	86.2	74.6	111.8
134	20.8	18.8	28.2



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

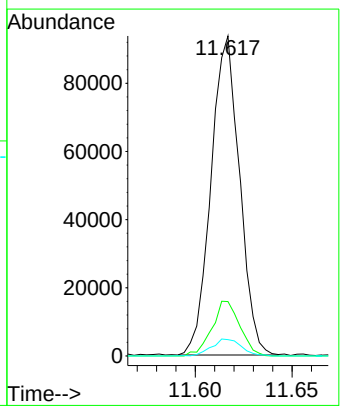
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

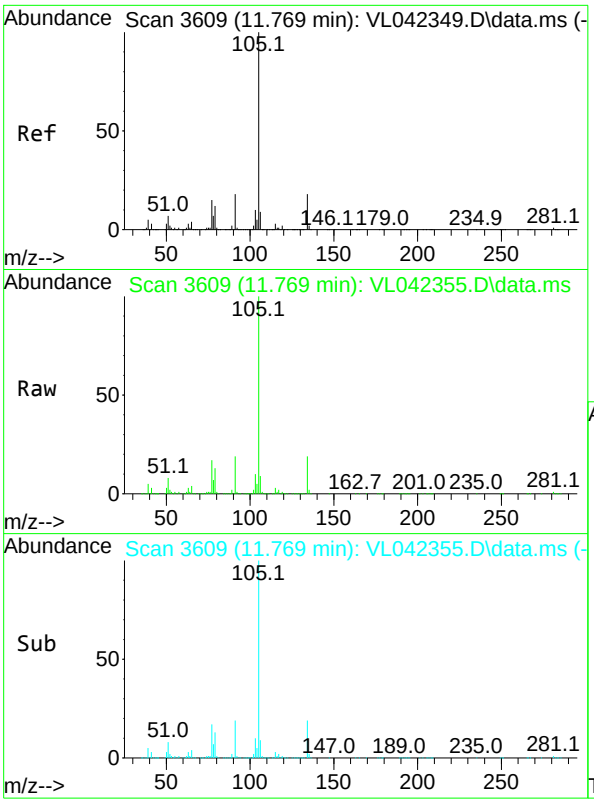


#66
Benzyl Chloride
Concen: 13.061 ppbv
RT: 11.617 min Scan# 3562
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

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

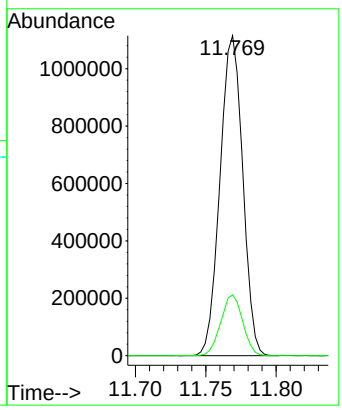




#67
sec-Butylbenzene
Concen: 13.468 ppbv
RT: 11.769 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion:105 Resp: 125326

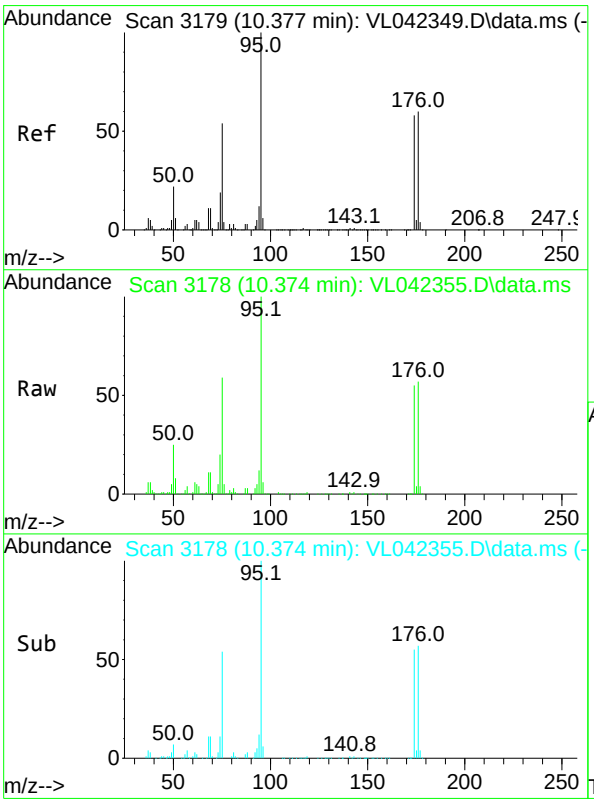
Ion	Ratio	Lower	Upper
105	100		
134	18.4	14.6	21.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations APPROVED

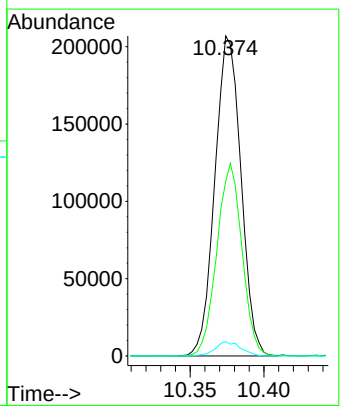
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

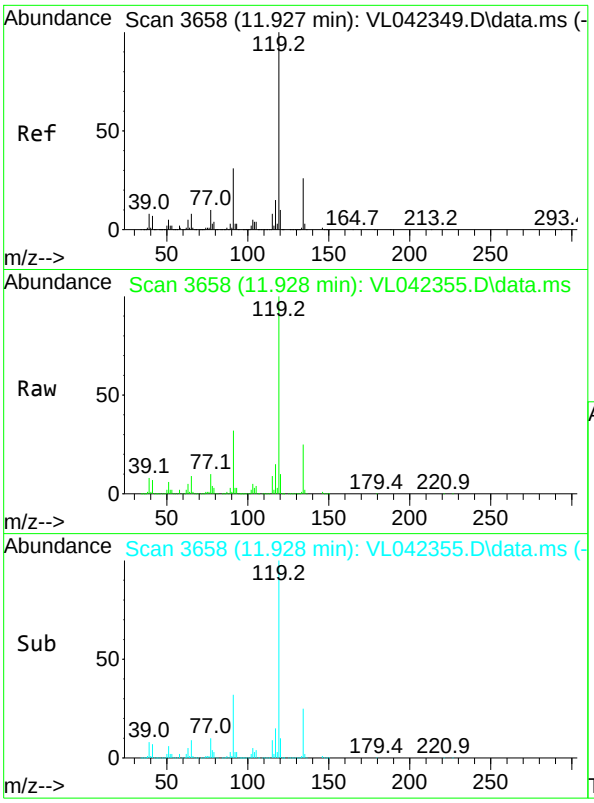


#68
1-Bromo-4-Fluorobenzene
Concen: 10.038 ppbv
RT: 10.374 min Scan# 3178
Delta R.T. -0.003 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

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

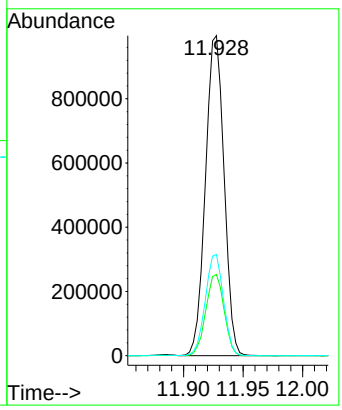




#69
p-Isopropyltoluene
Concen: 13.382 ppbv
RT: 11.928 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion:119 Resp: 108185

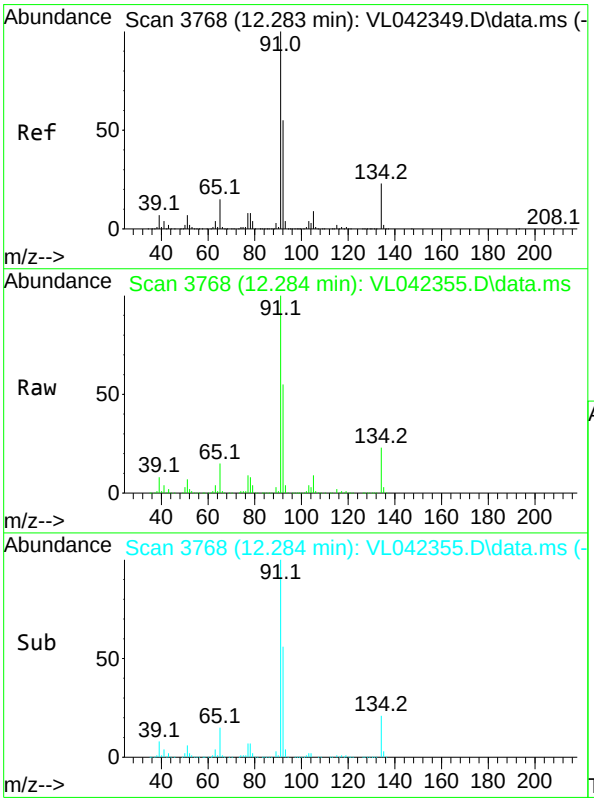
Ion	Ratio	Lower	Upper
119	100		
134	25.0	20.0	30.0
91	31.1	24.4	36.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

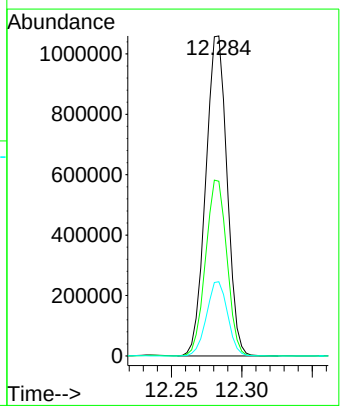
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

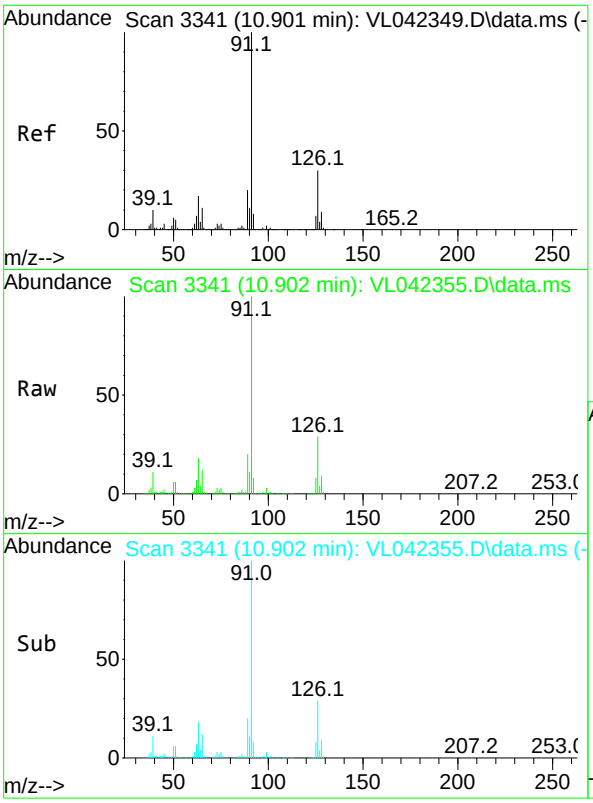


#70
n-Butylbenzene
Concen: 13.266 ppbv
RT: 12.284 min Scan# 3768
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

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

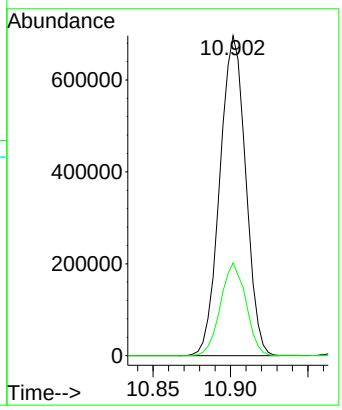




#71
2-Chlorotoluene
Concen: 14.131 ppbv
RT: 10.902 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 91 Resp: 80672

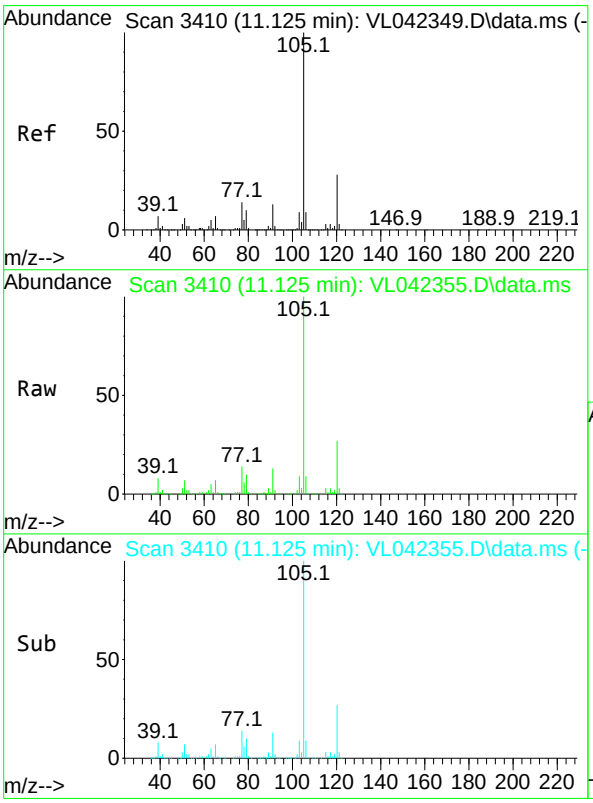
Ion	Ratio	Lower	Upper
91	100		
126	28.4	11.4	45.4



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

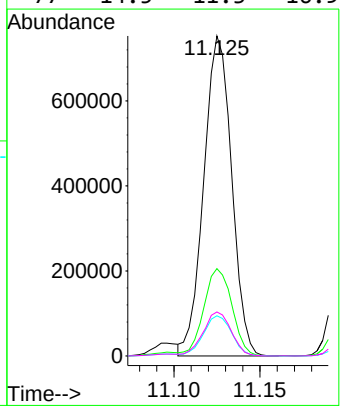
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

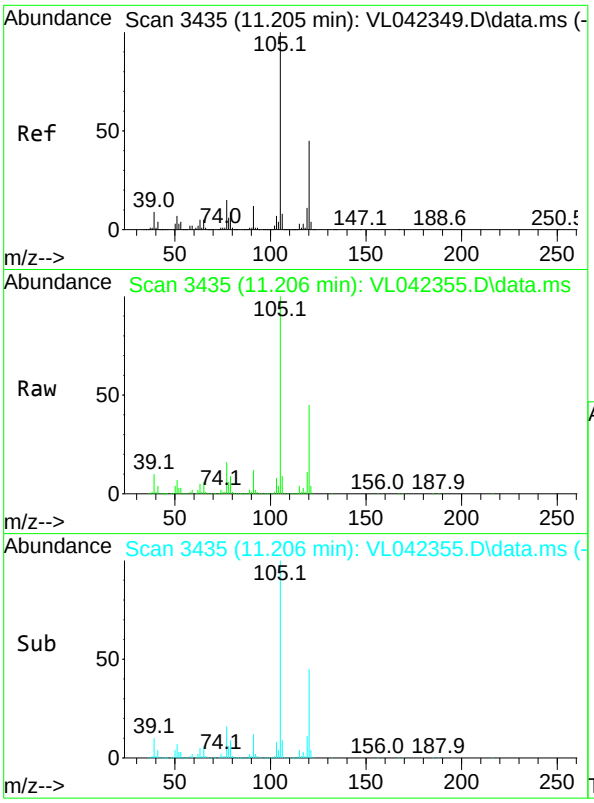


#72
4-Ethyltoluene
Concen: 13.992 ppbv
RT: 11.125 min Scan# 3410
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

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

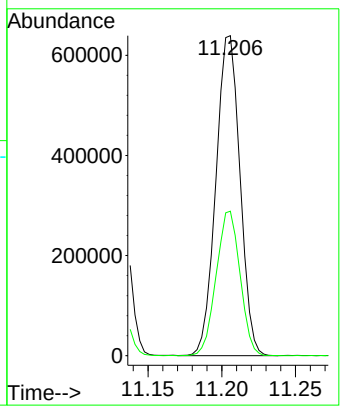




#73
1,3,5-Trimethylbenzene
Concen: 13.578 ppbv
RT: 11.206 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion:105 Resp: 72655

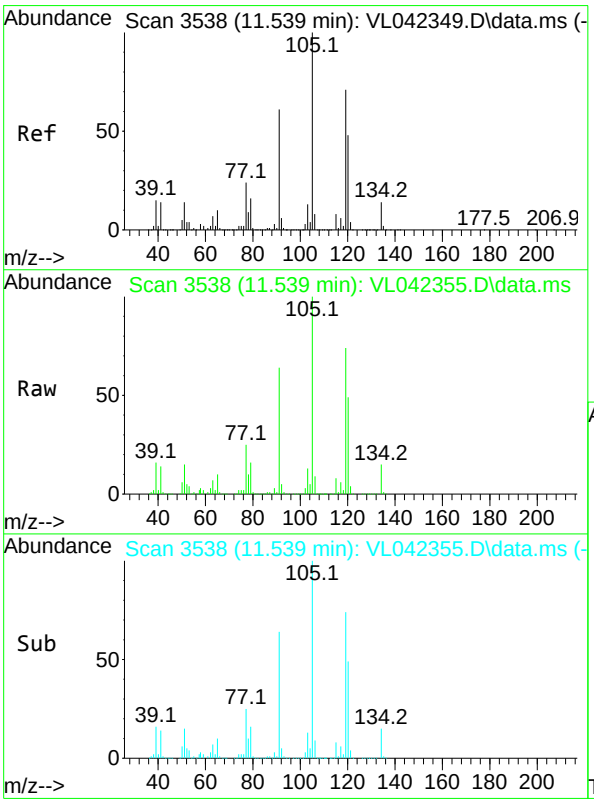
Ion	Ratio	Lower	Upper
105	100		
120	45.1	35.6	53.4



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

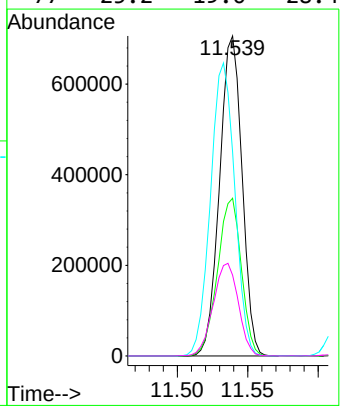
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

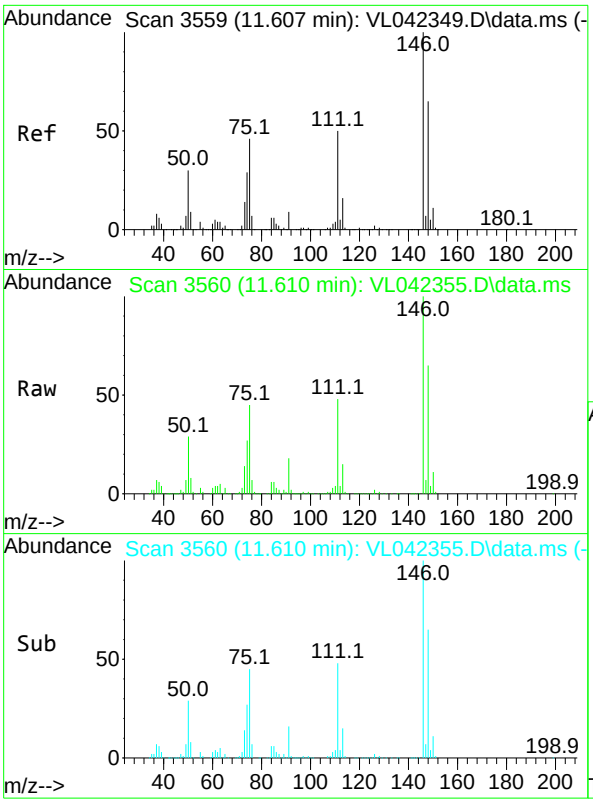


#74
1,2,4-Trimethylbenzene
Concen: 12.572 ppbv
RT: 11.539 min Scan# 3538
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

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

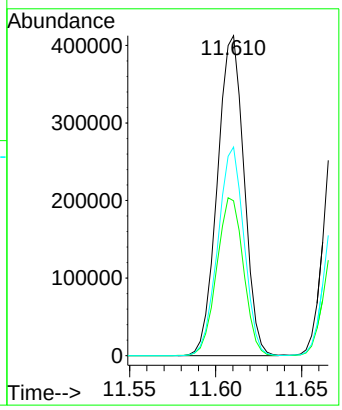




#75
1,3-Dichlorobenzene
Concen: 13.670 ppbv
RT: 11.610 min Scan# 3
Delta R.T. 0.004 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion:146 Resp: 44408

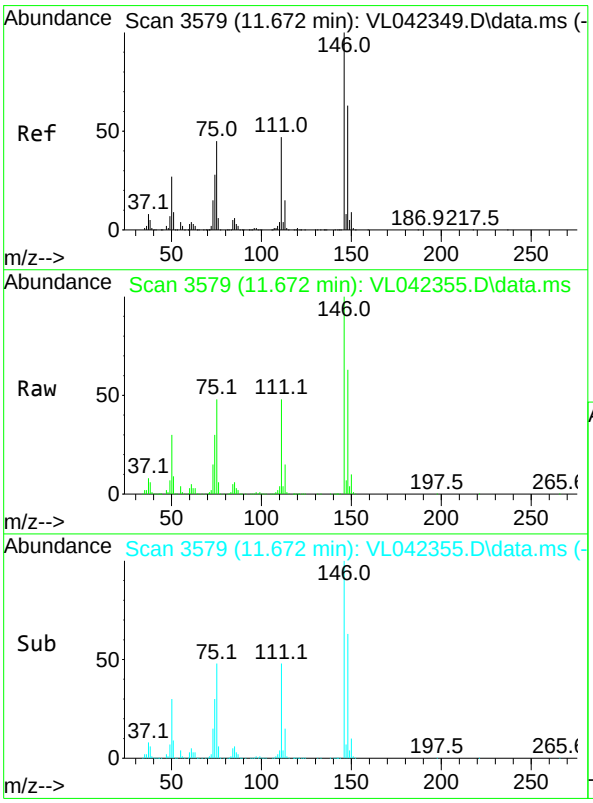
Ion	Ratio	Lower	Upper
146	100		
111	49.6	24.3	72.8
148	63.9	31.6	94.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

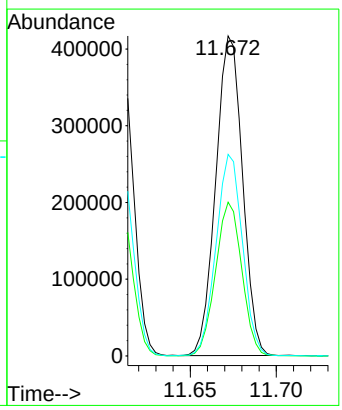
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

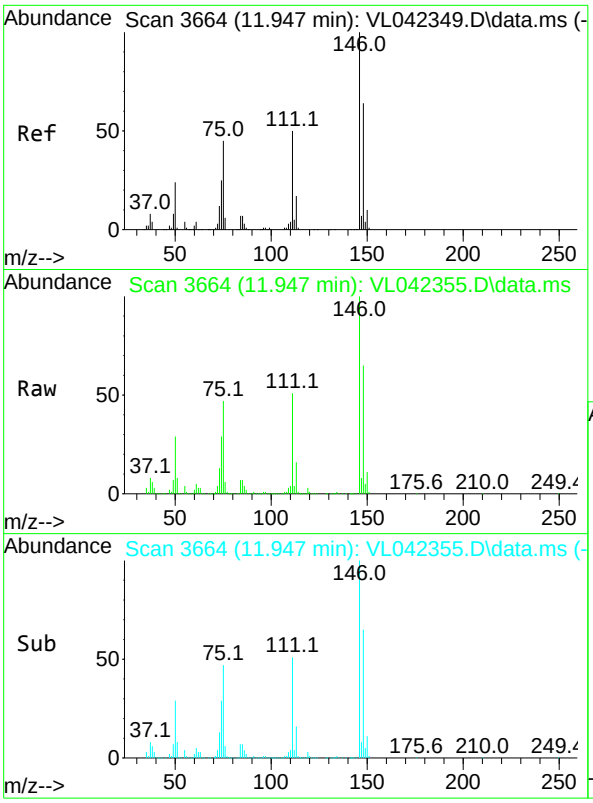


#76
1,4-Dichlorobenzene
Concen: 13.802 ppbv
RT: 11.672 min Scan# 3579
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

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

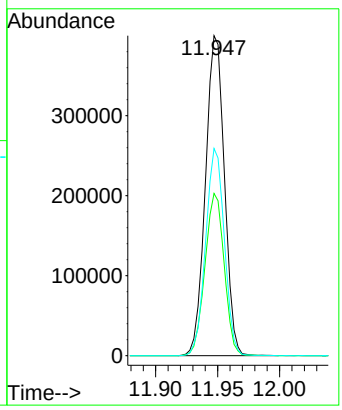




#77
1,2-Dichlorobenzene
Concen: 13.529 ppbv
RT: 11.947 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion:146 Resp: 42737

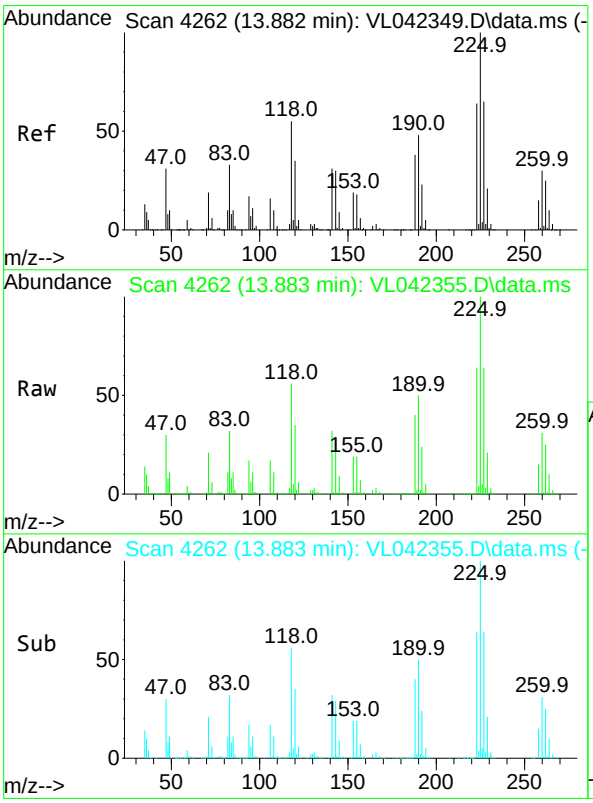
Ion	Ratio	Lower	Upper
146	100		
111	51.3	25.3	75.9
148	63.8	31.5	94.5



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

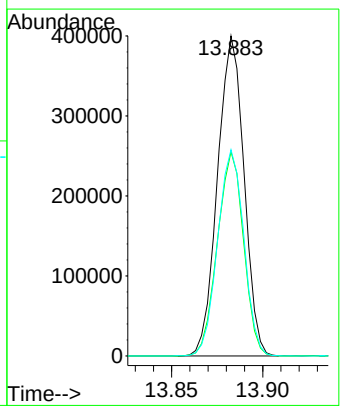
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

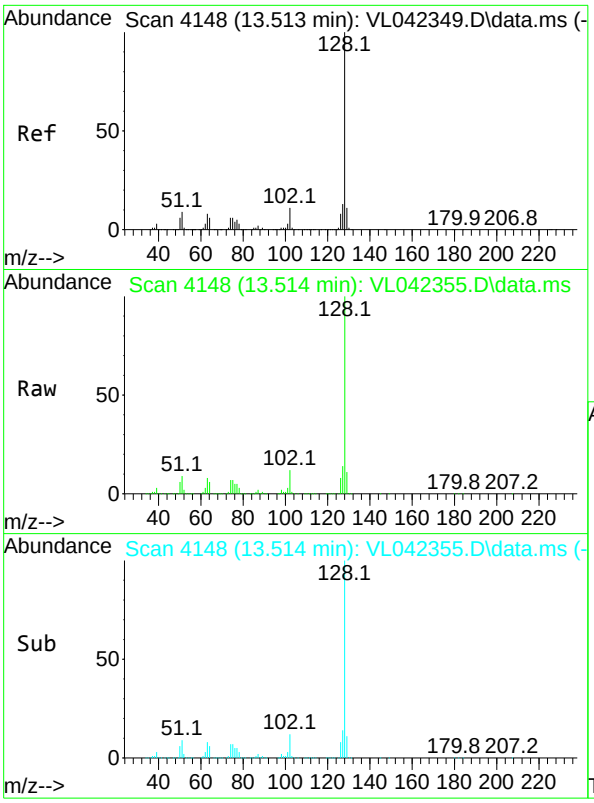


#78
Hexachloro-1,3-Butadiene
Concen: 12.679 ppbv
RT: 13.883 min Scan# 4262
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

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

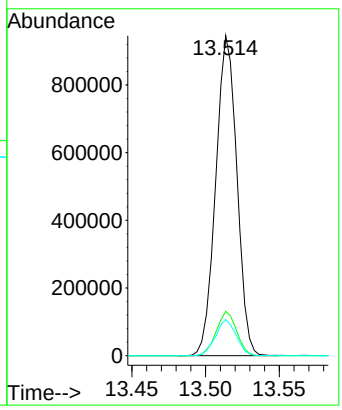




#79
Naphthalene
Concen: 12.632 ppbv
RT: 13.514 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion:128 Resp: 94408

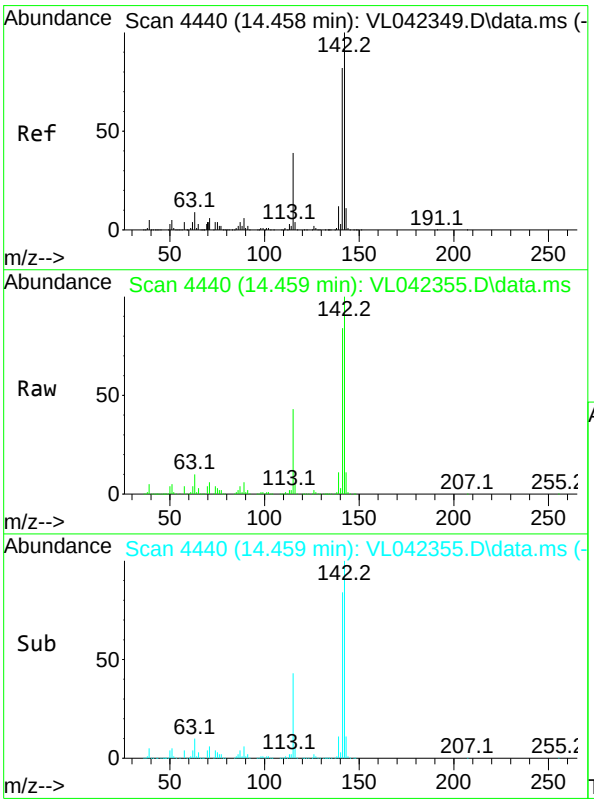
Ion	Ratio	Lower	Upper
128	100		
127	13.9	10.6	15.8
129	11.3	8.6	12.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

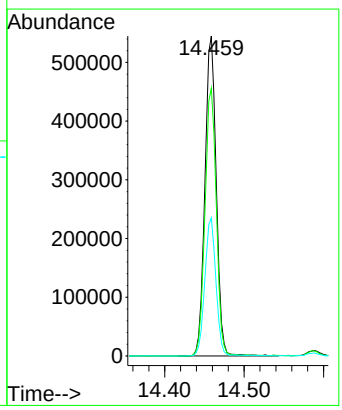
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

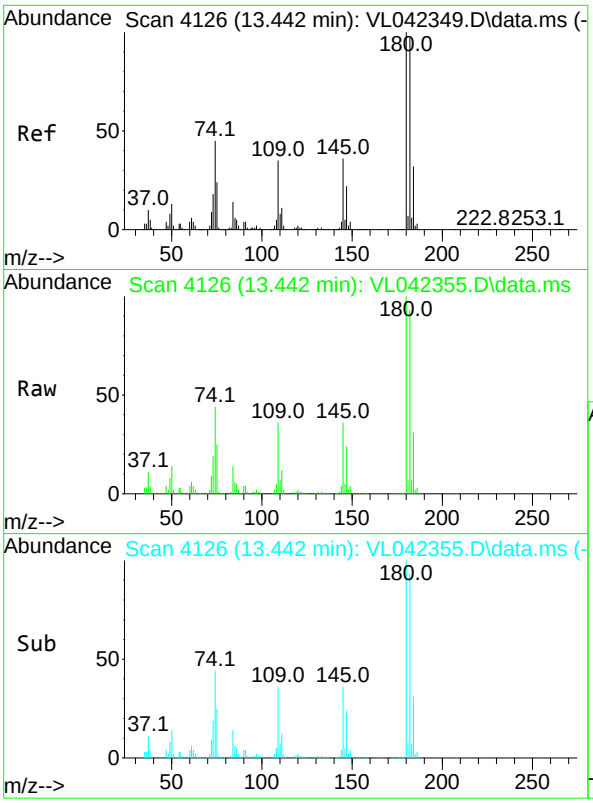


#80
Naphthalene,2-methyl-
Concen: 12.686 ppbv
RT: 14.459 min Scan# 4440
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

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

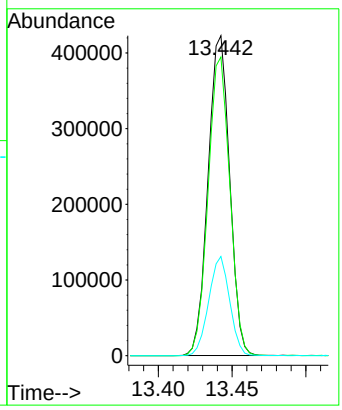




#81
1,2,4-Trichlorobenzene
Concen: 13.398 ppbv
RT: 13.442 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

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
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)

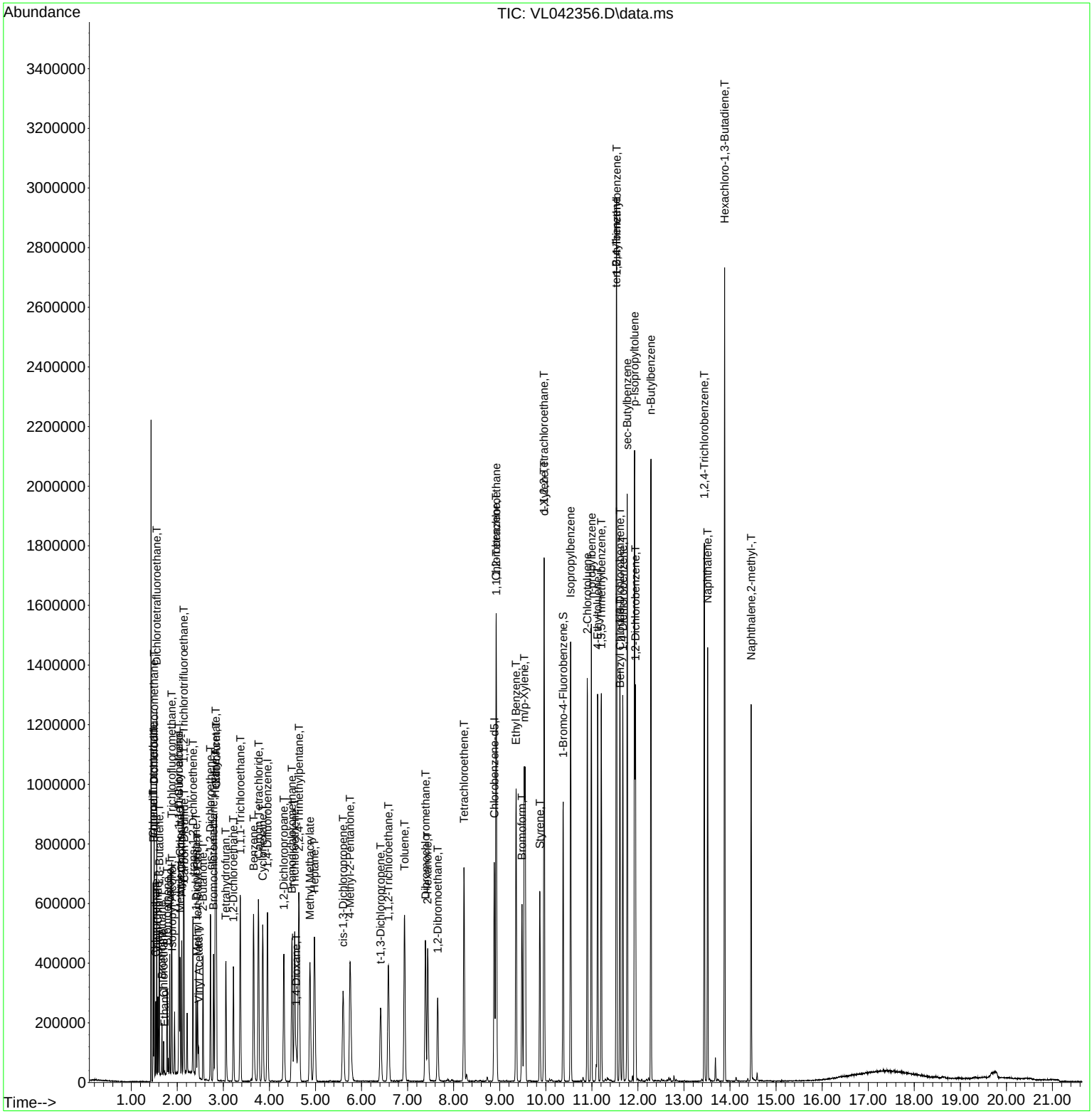
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042356.D
Acq On : 17 Apr 2025 13:43
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

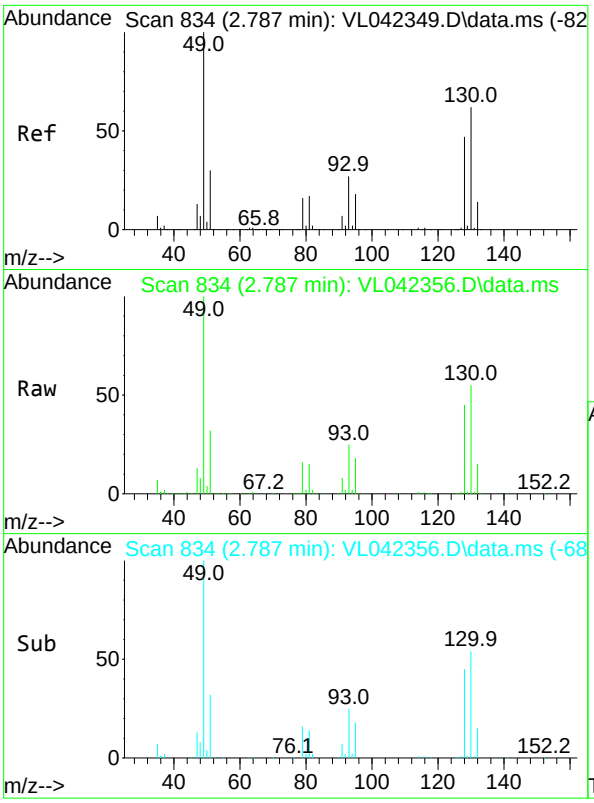
Quant Time: Apr 18 02:15:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

Manual Integrations APPROVED

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

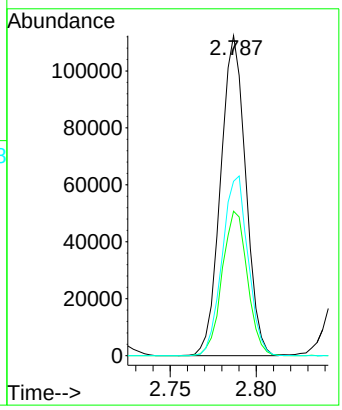




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 49 Resp: 11399

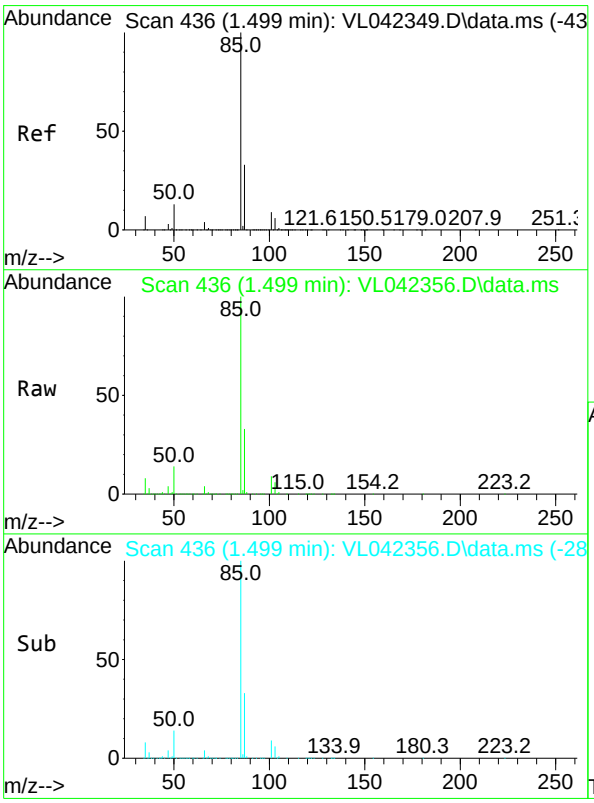
Ion	Ratio	Lower	Upper
49	100		
128	45.5	22.8	68.4
130	57.8	29.3	88.0



Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

Manual Integrations
APPROVED

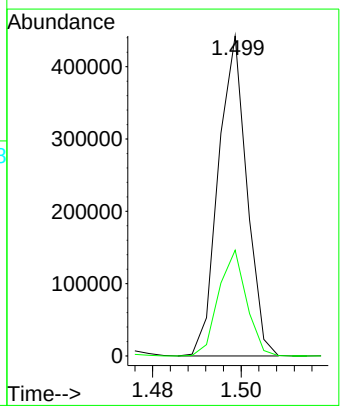
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

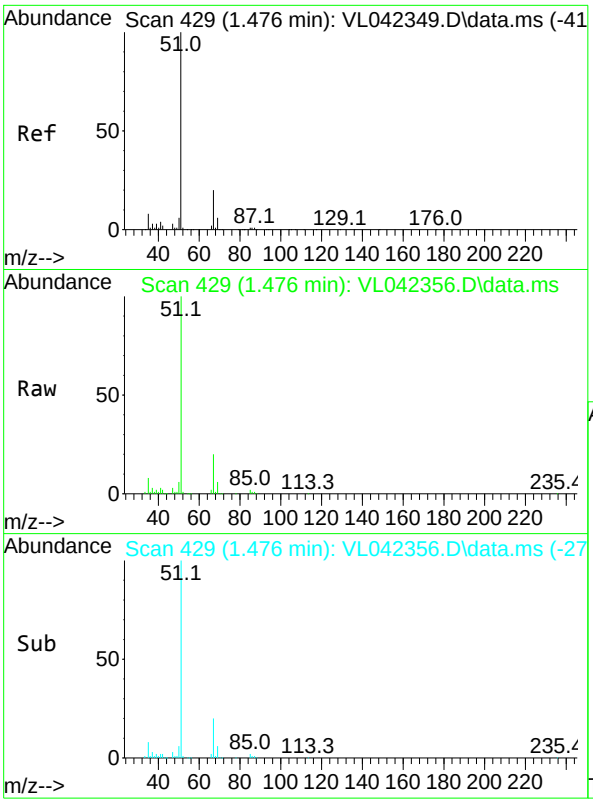


#2
Dichlorodifluoromethane
Concen: 9.812 ppbv
RT: 1.499 min Scan# 436
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 85 Resp: 197623

Ion	Ratio	Lower	Upper
85	100		
87	33.1	26.6	39.8

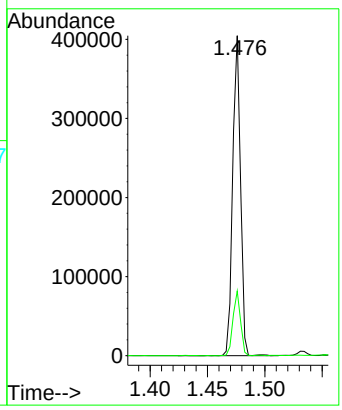




#3
Chlorodifluoromethane
Concen: 9.960 ppbv
RT: 1.476 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 51 Resp: 19101

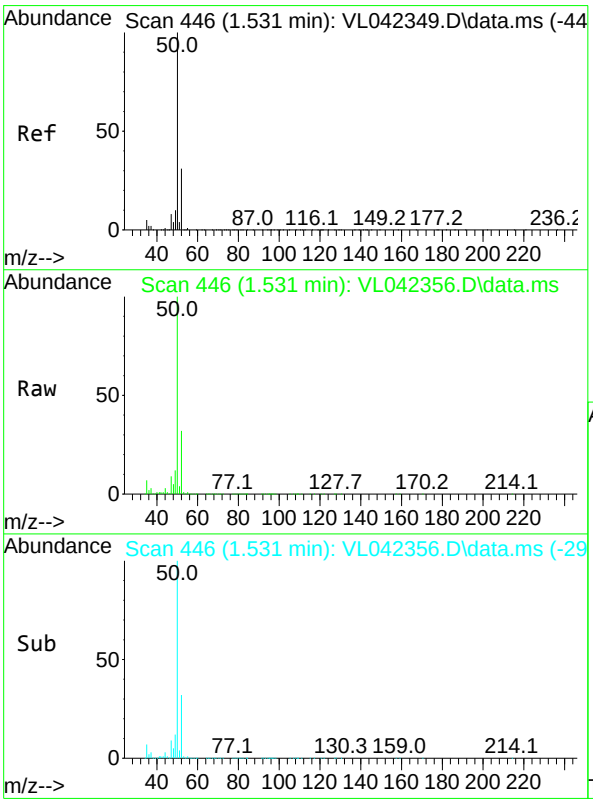
Ion	Ratio	Lower	Upper
51	100		
67	19.6	16.2	24.4



Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

Manual Integrations
APPROVED

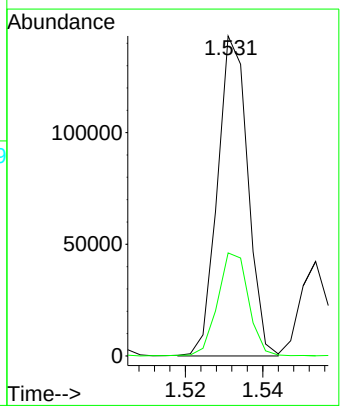
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

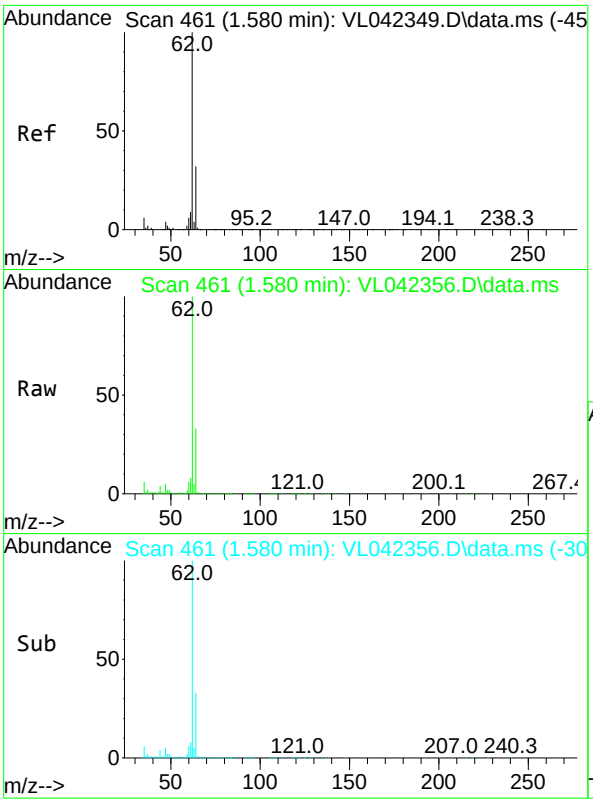


#4
Chloromethane
Concen: 9.796 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 50 Resp: 78080

Ion	Ratio	Lower	Upper
50	100		
52	32.0	24.7	37.1

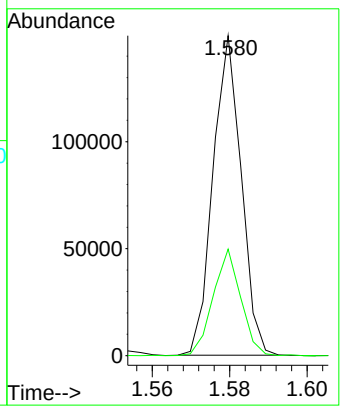




#5
Vinyl Chloride
Concen: 8.717 ppbv
RT: 1.580 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 62 Resp: 7562

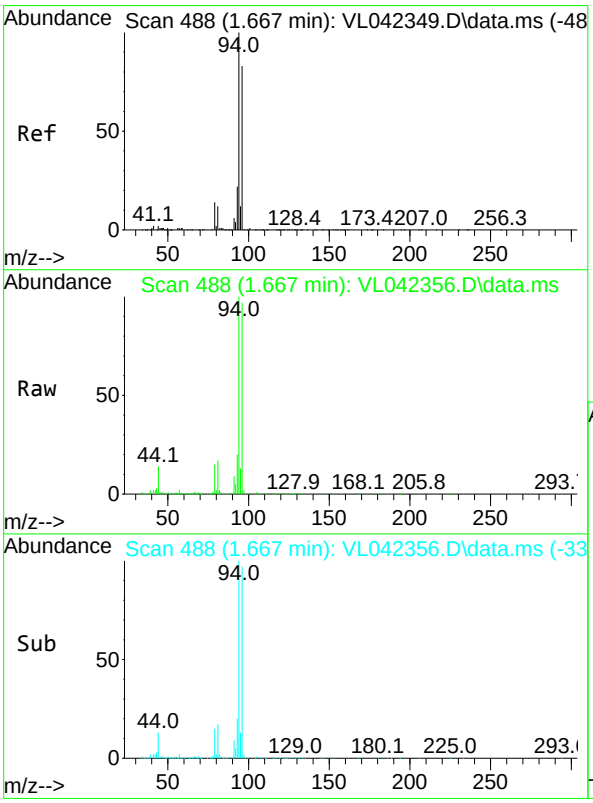
Ion	Ratio	Lower	Upper
62	100		
64	33.3	25.4	38.0



Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

Manual Integrations
APPROVED

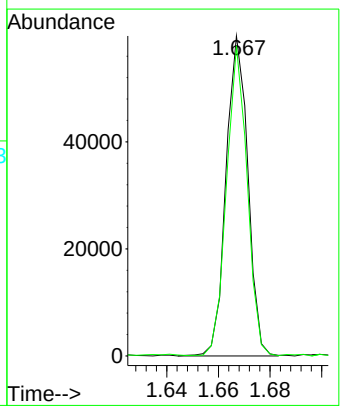
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

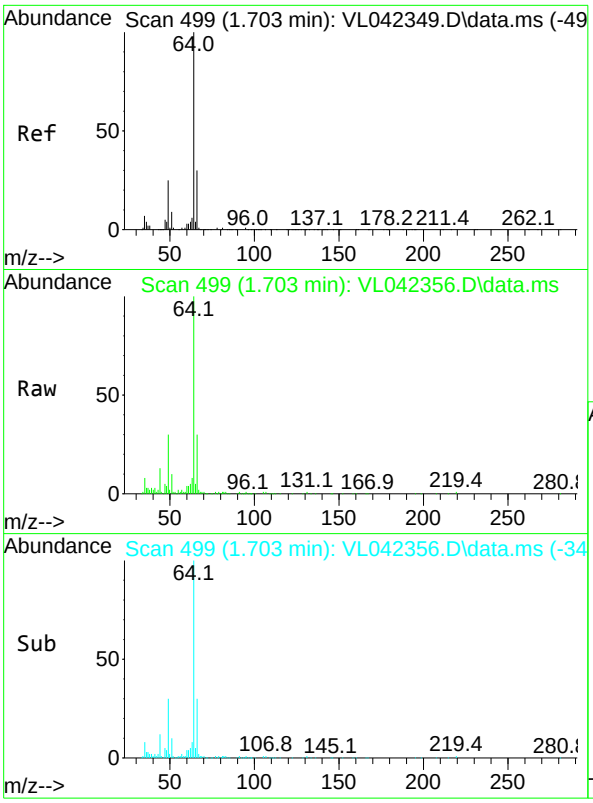


#6
Bromomethane
Concen: 9.422 ppbv
RT: 1.667 min Scan# 488
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 94 Resp: 35115

Ion	Ratio	Lower	Upper
94	100		
96	96.8	66.2	99.2

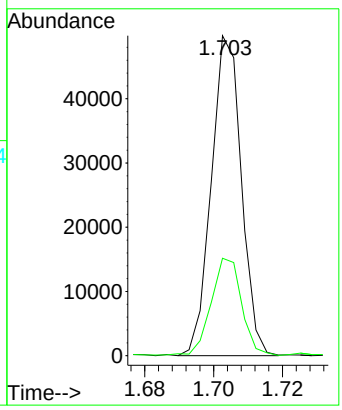




#7
Chloroethane
Concen: 9.612 ppbv
RT: 1.703 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 64 Resp: 3015

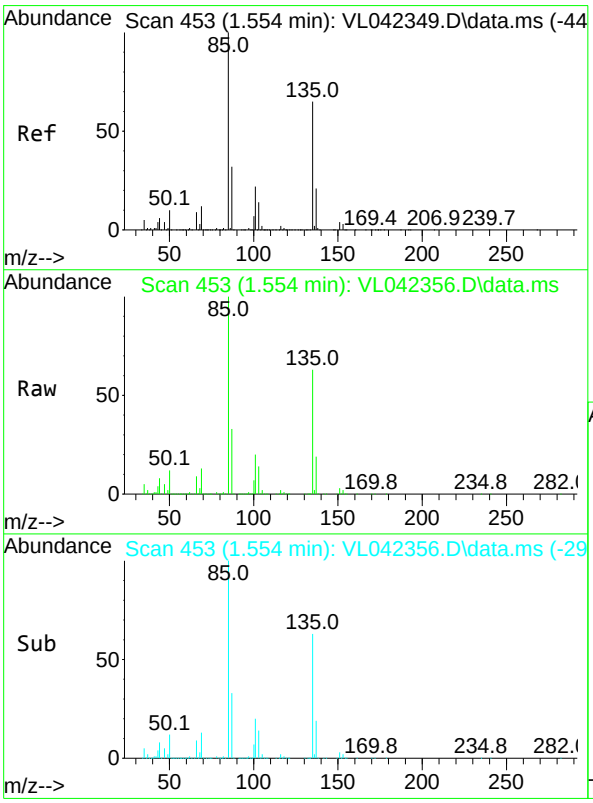
Ion	Ratio	Lower	Upper
64	100		
66	30.4	24.6	37.0



Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

Manual Integrations
APPROVED

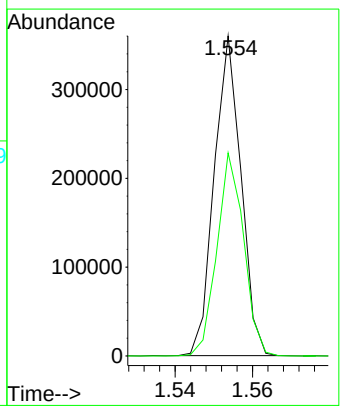
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

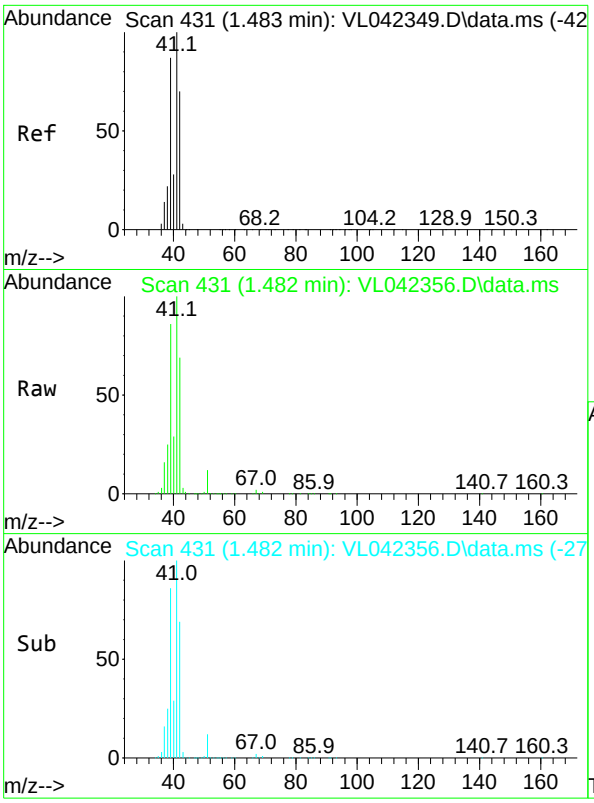


#8
Dichlorotetrafluoroethane
Concen: 9.997 ppbv
RT: 1.554 min Scan# 453
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 85 Resp: 172863

Ion	Ratio	Lower	Upper
85	100		
135	63.5	52.2	78.2

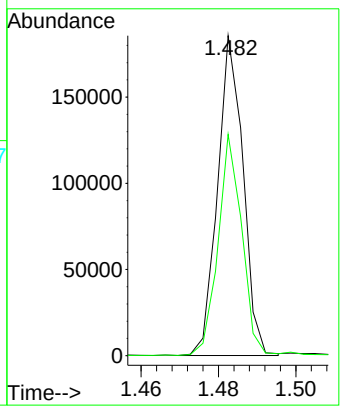




#9
Propene
Concen: 9.690 ppbv
RT: 1.482 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 41 Resp: 8463

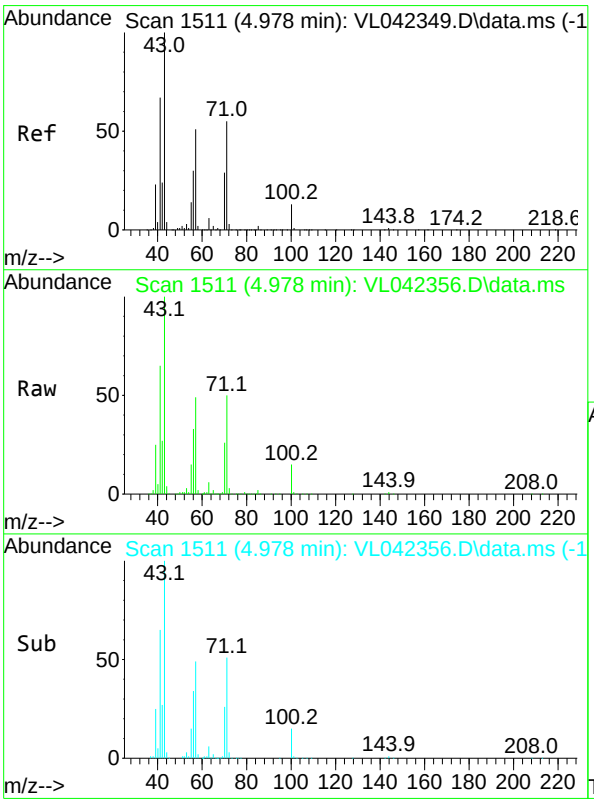
Ion	Ratio	Lower	Upper
41	100		
42	65.8	56.2	84.4



Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

Manual Integrations
APPROVED

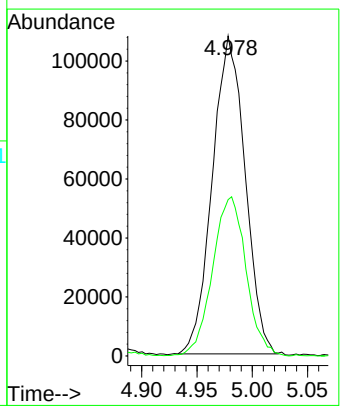
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

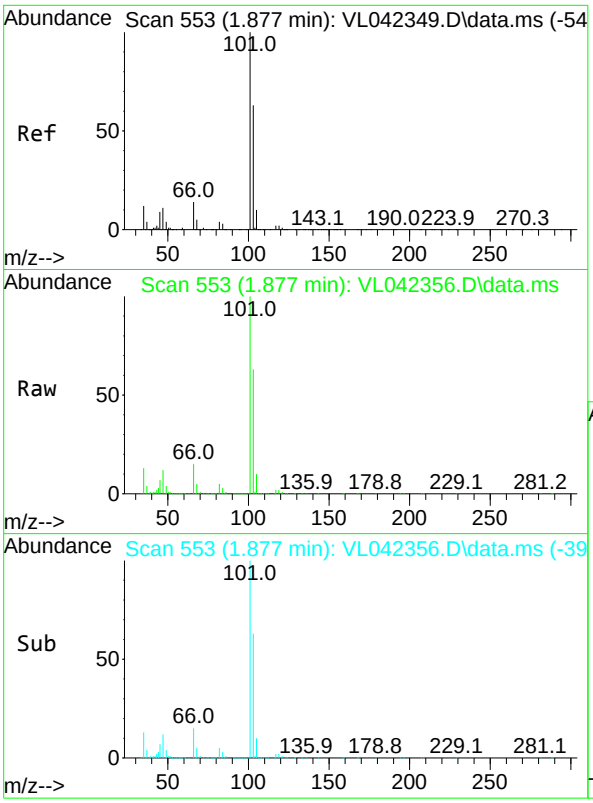


#10
Heptane
Concen: 9.041 ppbv
RT: 4.978 min Scan# 1511
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 43 Resp: 221840

Ion	Ratio	Lower	Upper
43	100		
57	51.4	39.9	59.9

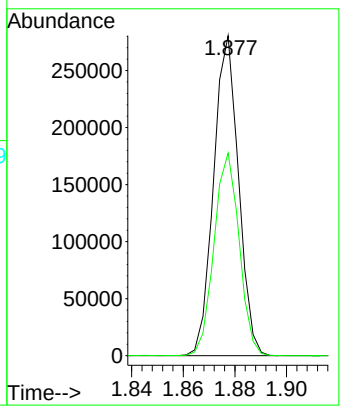




#11
Trichlorofluoromethane
Concen: 9.807 ppbv
RT: 1.877 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion:101 Resp: 18782

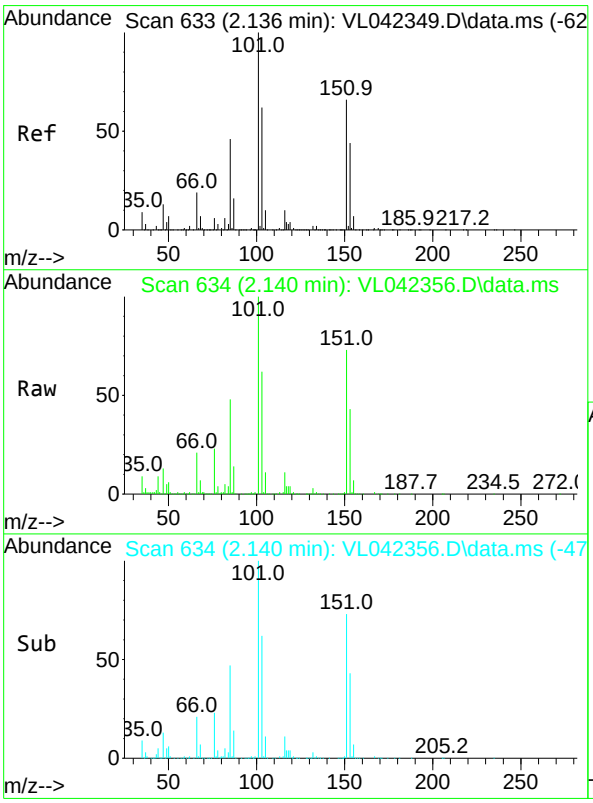
Ion	Ratio	Lower	Upper
101	100		
103	63.3	50.1	75.1



Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

Manual Integrations
APPROVED

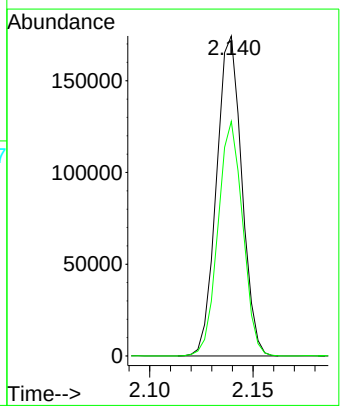
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

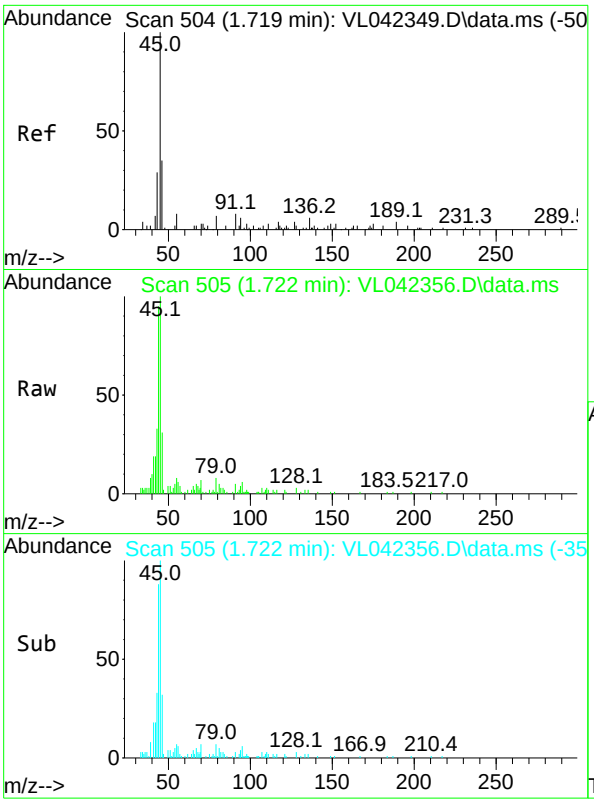


#12
1,1,2-Trichlorotrifluoroethane
Concen: 9.482 ppbv
RT: 2.140 min Scan# 634
Delta R.T. 0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion:101 Resp: 148485

Ion	Ratio	Lower	Upper
101	100		
151	71.7	57.0	85.6

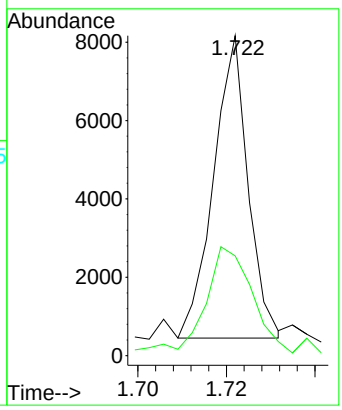




#13
Ethanol
Concen: 3.005 ppbv
RT: 1.722 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 45 Resp: 417

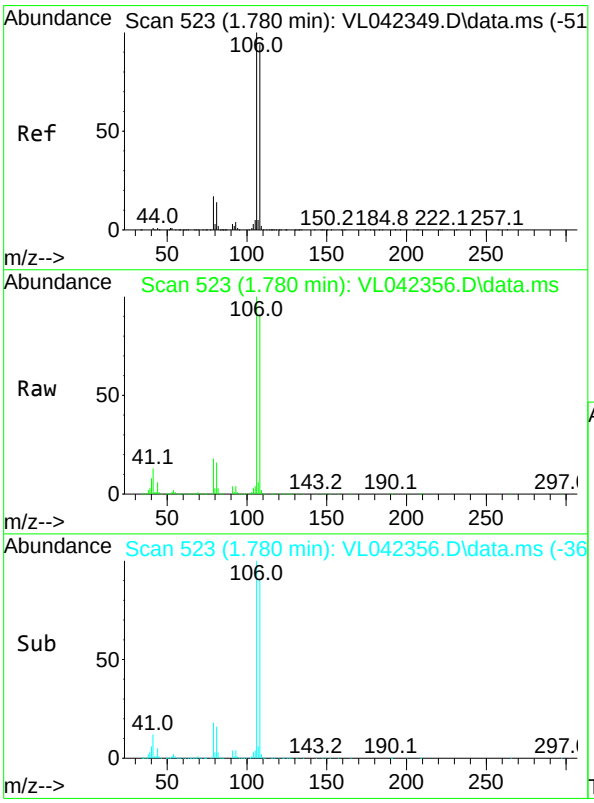
Ion	Ratio	Lower	Upper
45	100		
46	57.0	21.9	87.7



Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

Manual Integrations
APPROVED

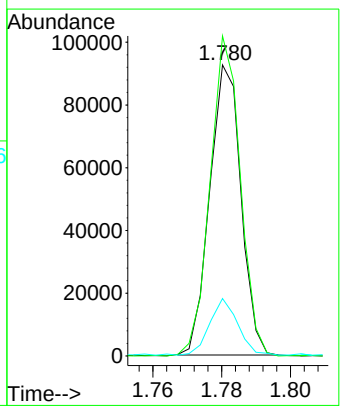
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

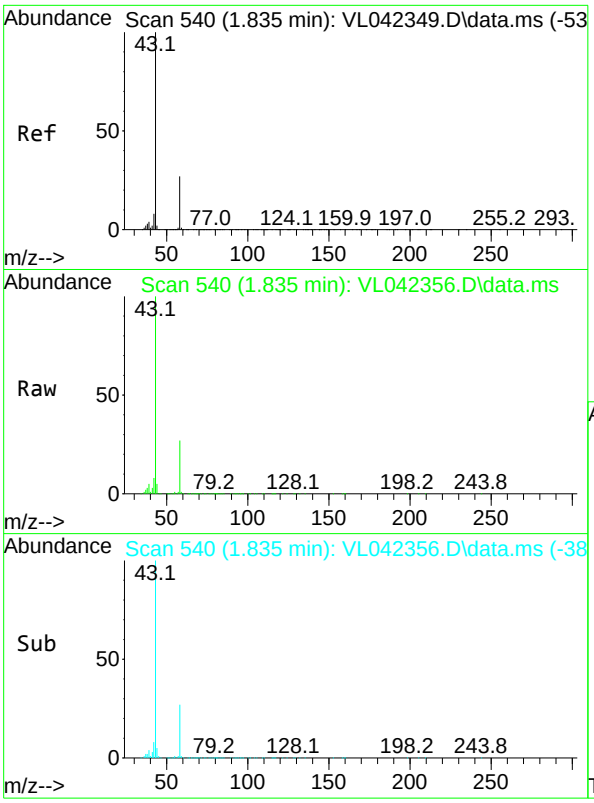


#14
Bromoethene
Concen: 9.880 ppbv
RT: 1.780 min Scan# 523
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

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

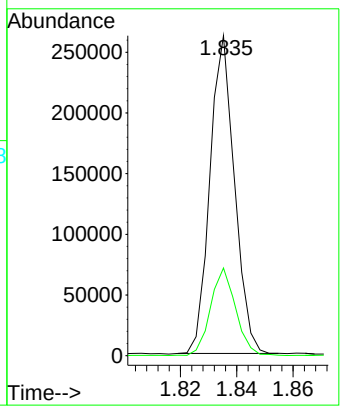




#15
Acetone
Concen: 8.505 ppbv
RT: 1.835 min Scan# 54
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 43 Resp: 15870

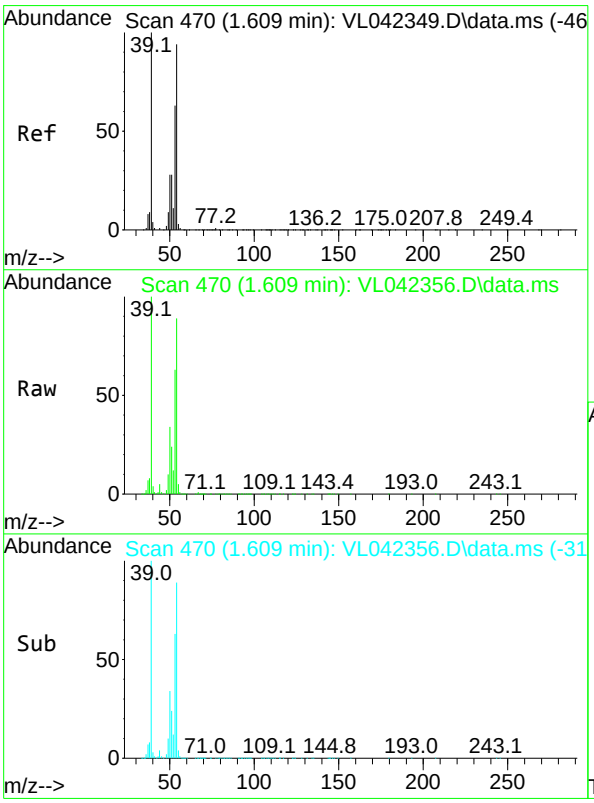
Ion	Ratio	Lower	Upper
43	100		
58	28.0	22.4	33.6



Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

Manual Integrations
APPROVED

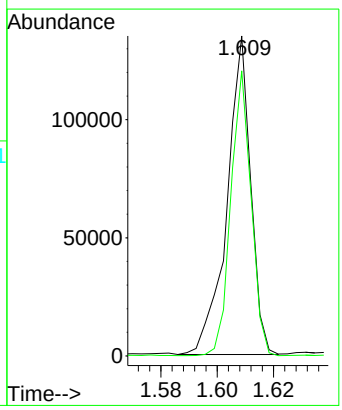
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

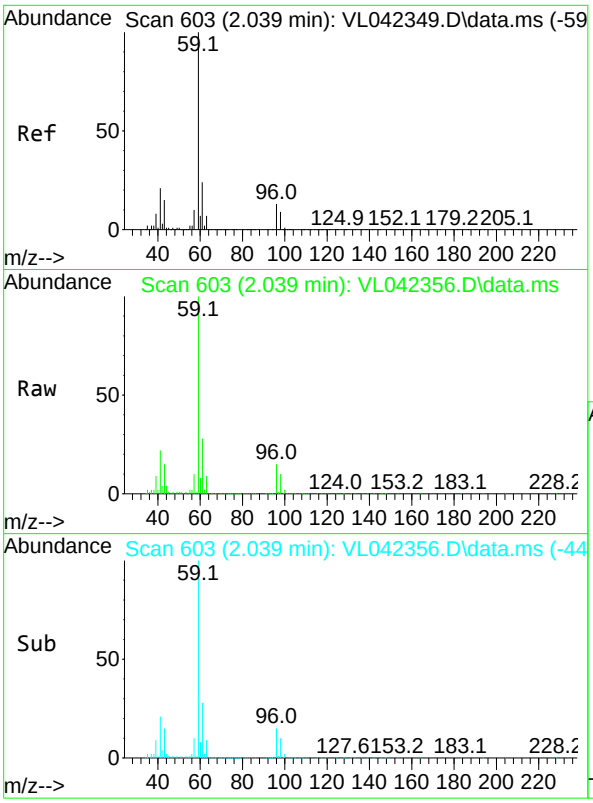


#16
1,3-Butadiene
Concen: 8.829 ppbv
RT: 1.609 min Scan# 470
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 39 Resp: 78804

Ion	Ratio	Lower	Upper
39	100		
54	77.1	64.9	97.3

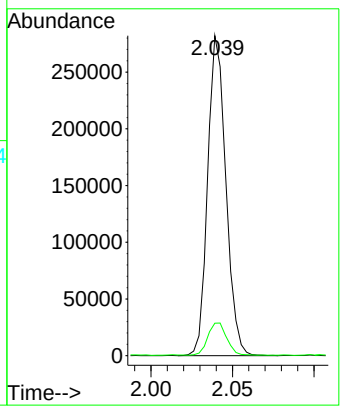




#17
tert-Butyl alcohol
Concen: 9.468 ppbv
RT: 2.039 min Scan# 6
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 59 Resp: 21895

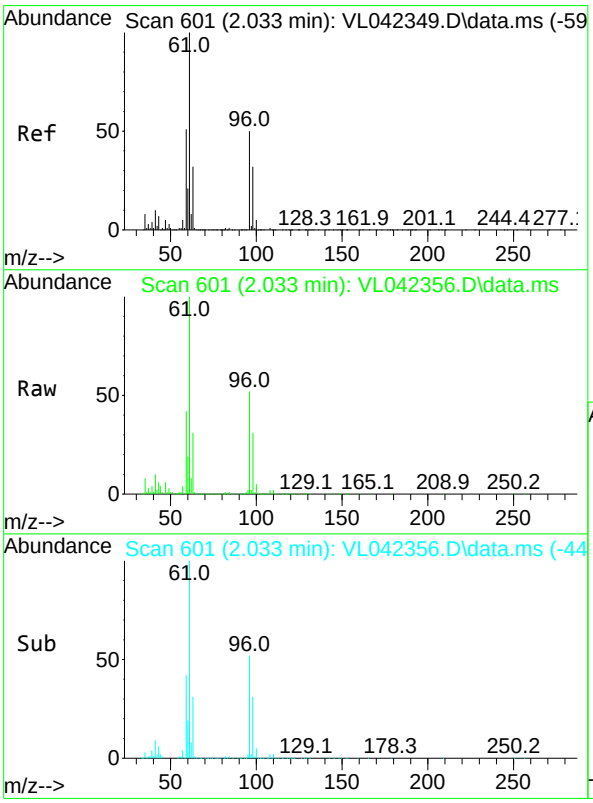
Ion	Ratio	Lower	Upper
59	100		
57	10.6	8.7	13.1



Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

Manual Integrations
APPROVED

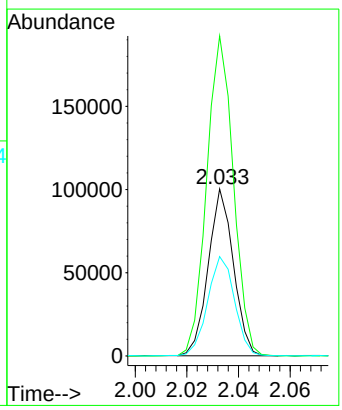
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

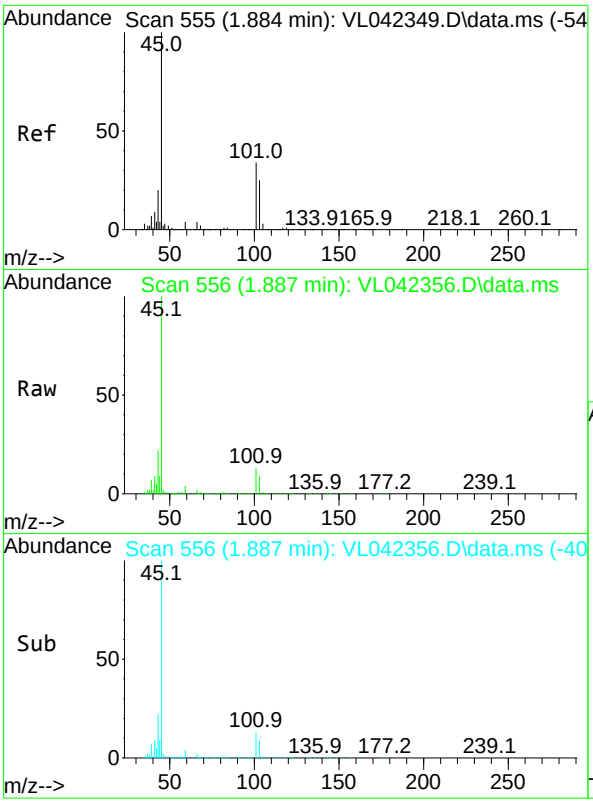


#18
1,1-Dichloroethene
Concen: 9.287 ppbv
RT: 2.033 min Scan# 601
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

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

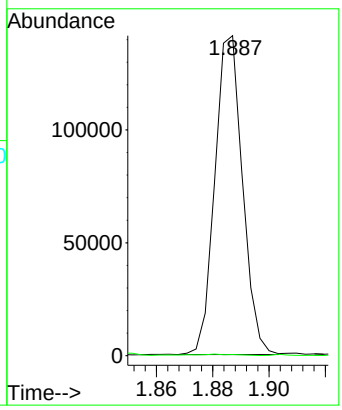




#19
Isopropyl Alcohol
Concen: 9.296 ppbv
RT: 1.887 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 45 Resp: 9636

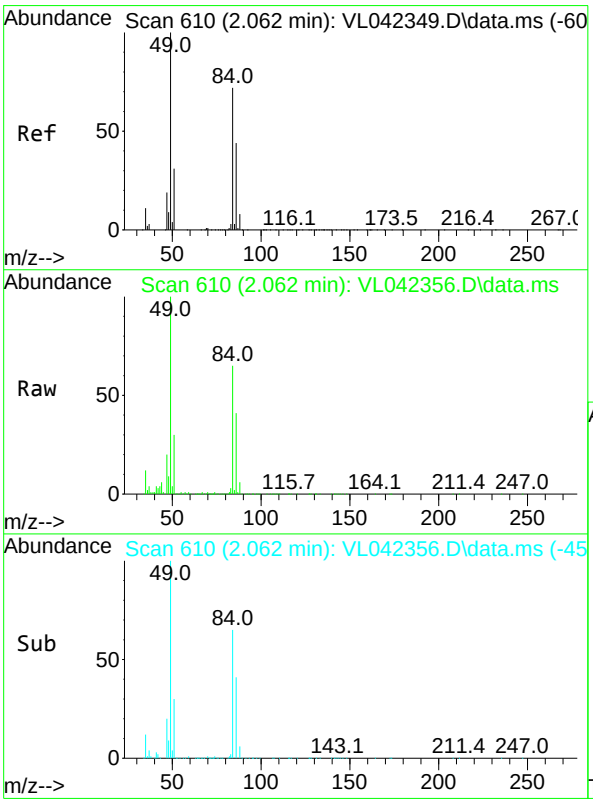
Ion	Ratio	Lower	Upper
45	100		
58	46.1	34.5	51.7



Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

Manual Integrations
APPROVED

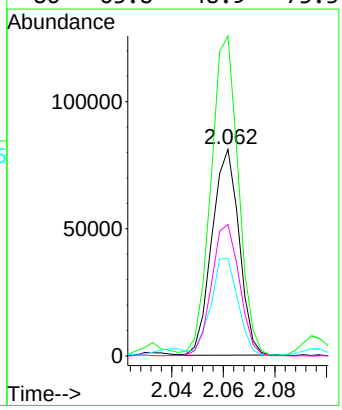
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

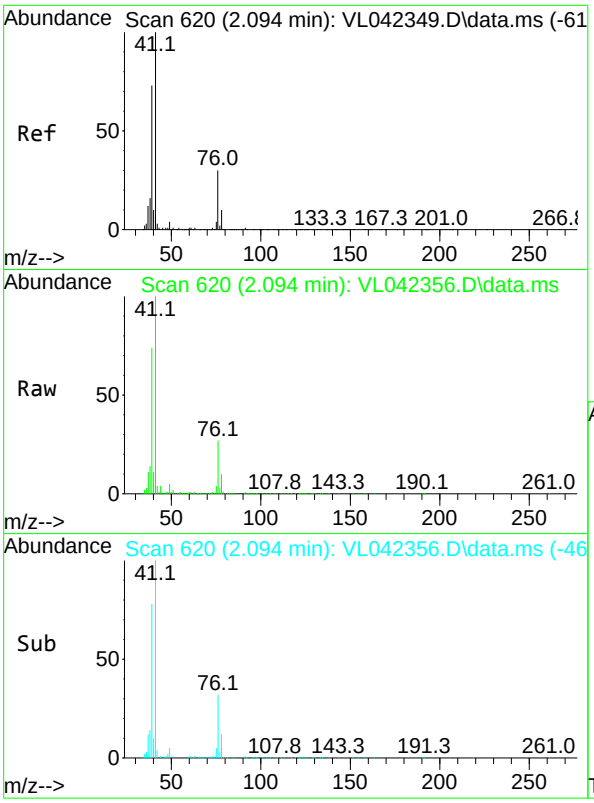


#20
Methylene Chloride
Concen: 8.101 ppbv
RT: 2.062 min Scan# 610
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

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

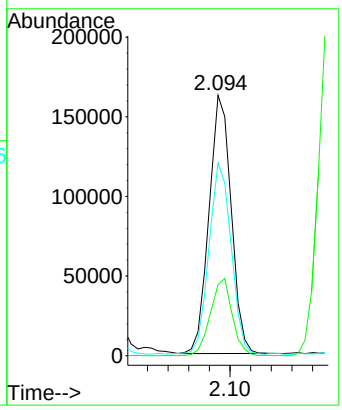




#21
Allyl Chloride
Concen: 9.368 ppbv
RT: 2.094 min Scan# 6
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 41 Resp: 12070

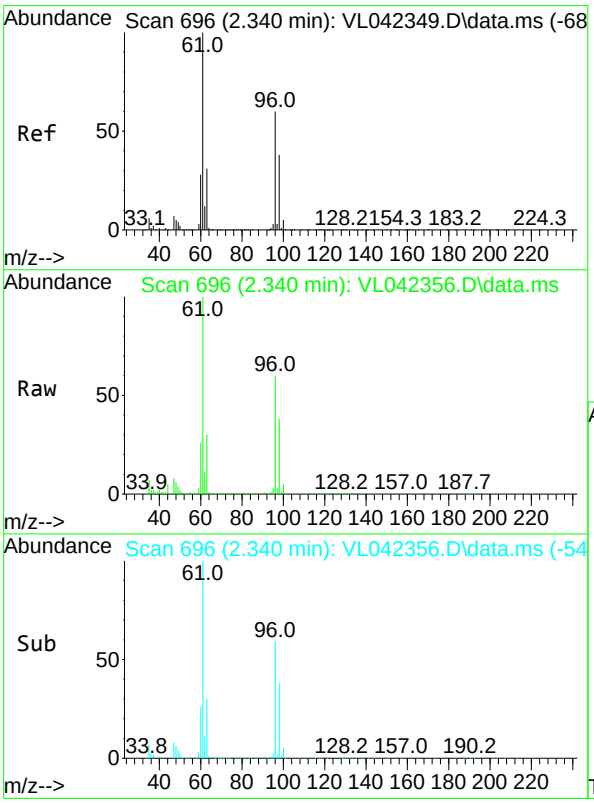
Ion	Ratio	Lower	Upper
41	100		
76	29.5	24.8	37.2
39	74.5	60.6	90.8



Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

Manual Integrations
APPROVED

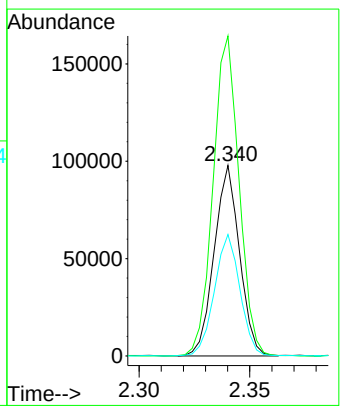
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

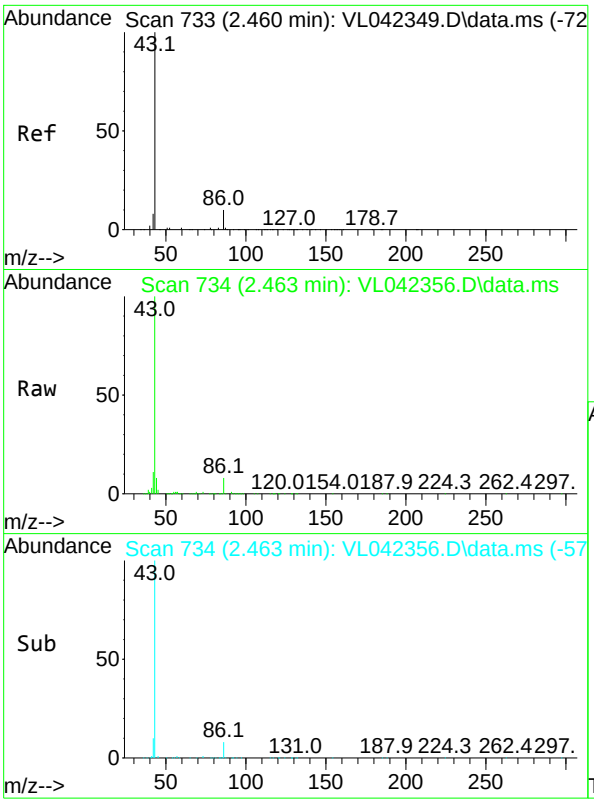


#22
trans-1,2-Dichloroethene
Concen: 9.373 ppbv
RT: 2.340 min Scan# 696
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

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

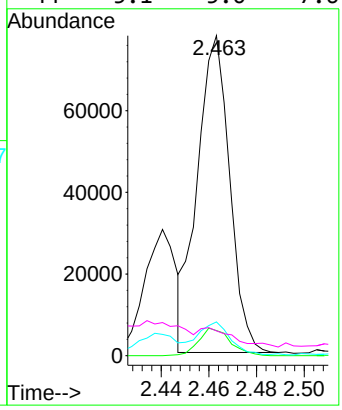




#23
Vinyl Acetate
Concen: 9.714 ppbv
RT: 2.463 min Scan# 7
Delta R.T. 0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 43 Resp: 7337

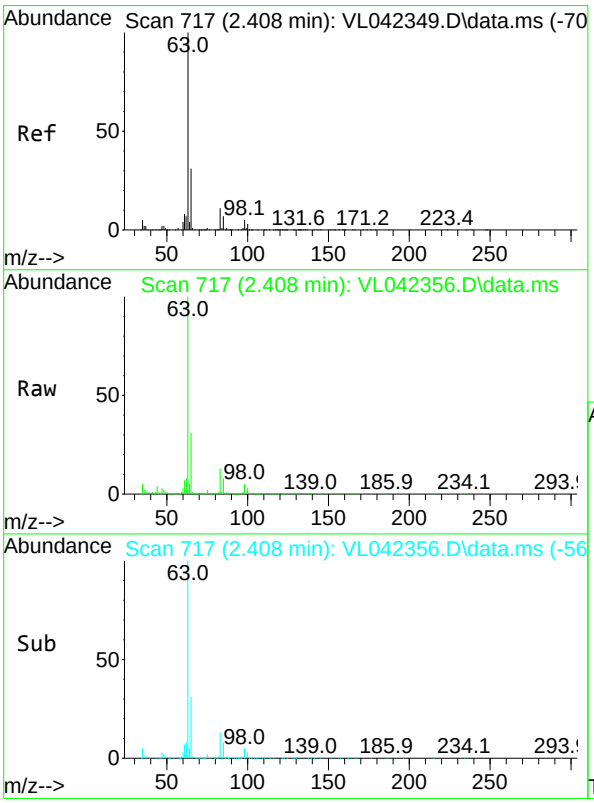
Ion	Ratio	Lower	Upper
43	100		
86	8.0	6.5	9.7
42	10.0	7.8	11.8
44	5.1	5.0	7.6



Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

Manual Integrations
APPROVED

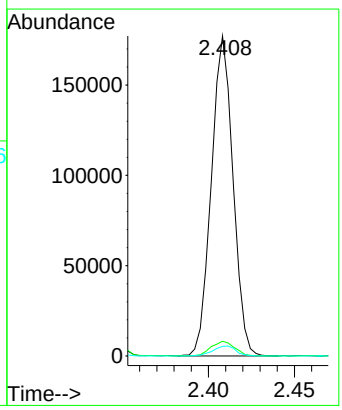
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

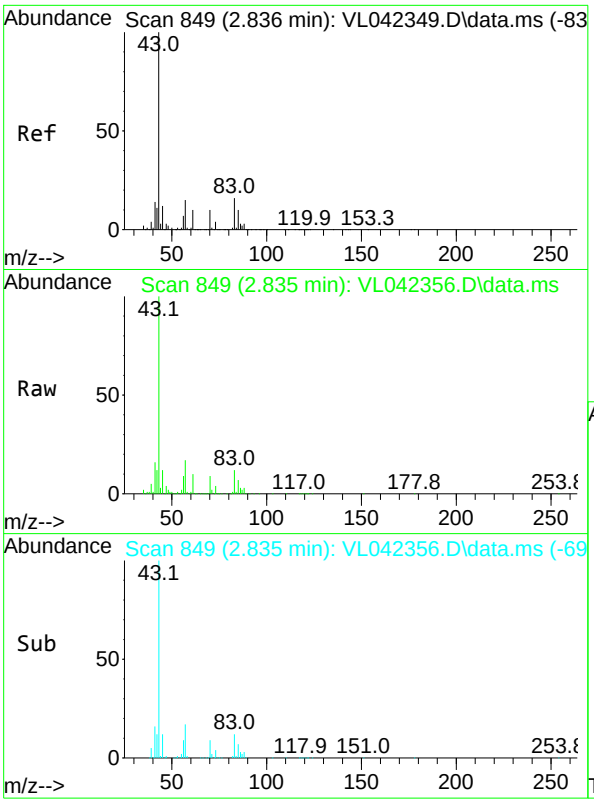


#24
1,1-Dichloroethane
Concen: 9.832 ppbv
RT: 2.408 min Scan# 717
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

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

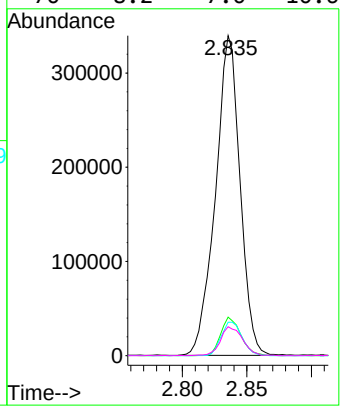




#25
Ethyl Acetate
Concen: 9.759 ppbv
RT: 2.835 min Scan# 84
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 43 Resp: 44901

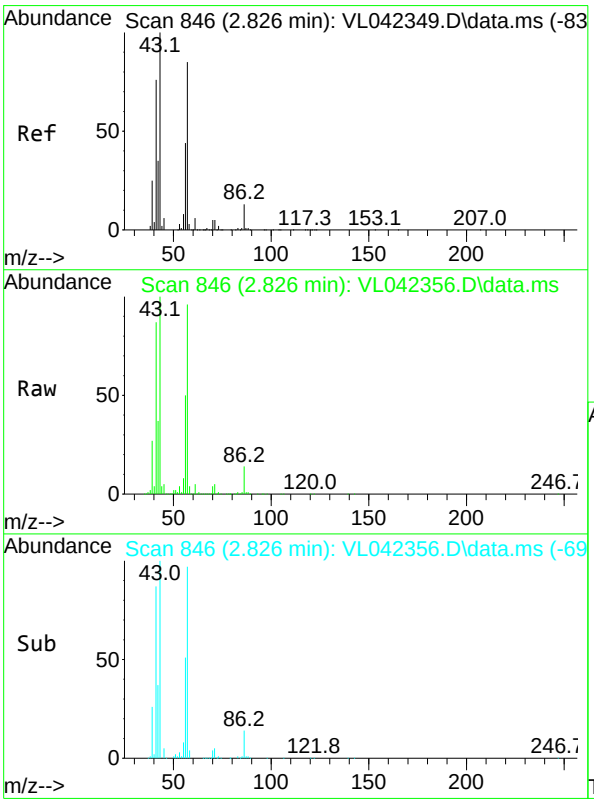
Ion	Ratio	Lower	Upper
43	100		
45	9.9	8.3	12.5
61	9.0	7.3	10.9
70	8.2	7.0	10.6



Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

Manual Integrations
APPROVED

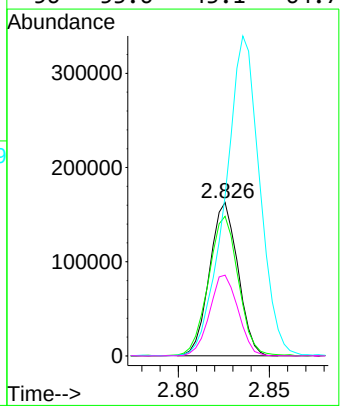
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

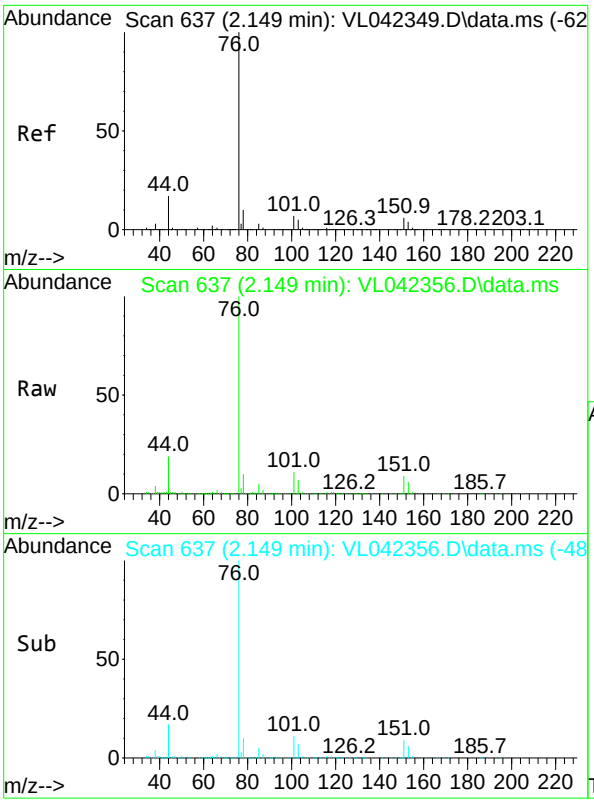


#26
Hexane
Concen: 9.439 ppbv
RT: 2.826 min Scan# 846
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

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

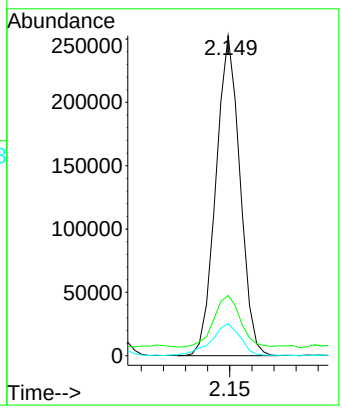




#27
Carbon Disulfide
Concen: 9.587 ppbv
RT: 2.149 min Scan# 6
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 76 Resp: 19111

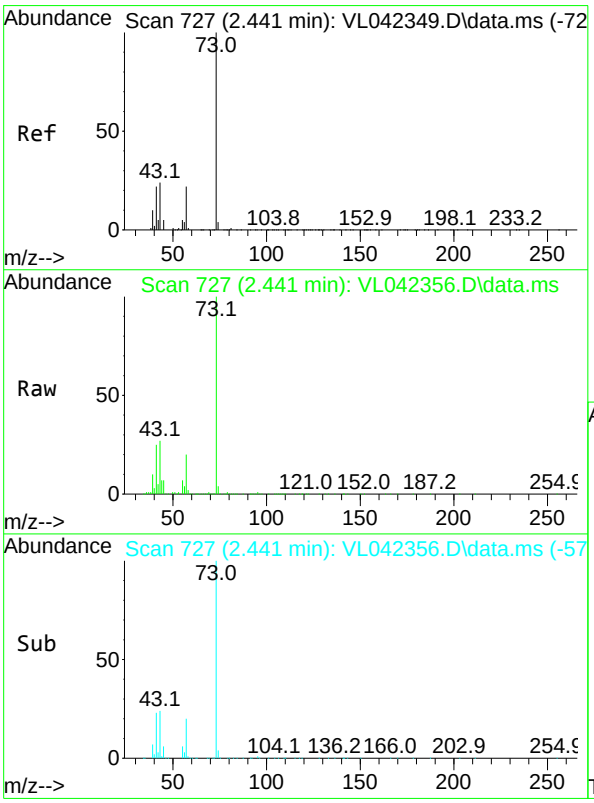
Ion	Ratio	Lower	Upper
76	100		
44	19.3	15.5	23.3
78	11.9	9.3	13.9



Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

Manual Integrations
APPROVED

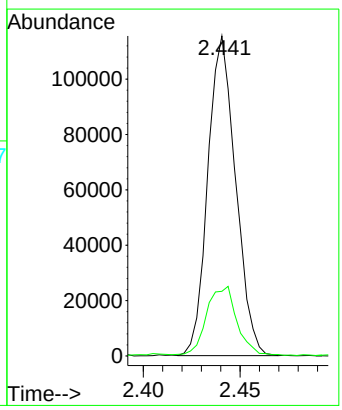
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

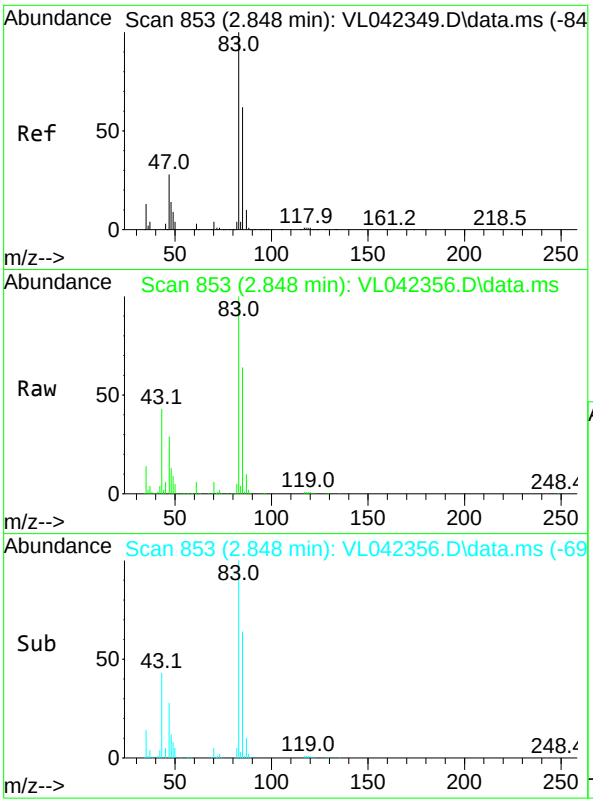


#28
Methyl tert-Butyl Ether
Concen: 9.442 ppbv
RT: 2.441 min Scan# 727
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 73 Resp: 115190

Ion	Ratio	Lower	Upper
73	100		
57	23.4	21.3	31.9

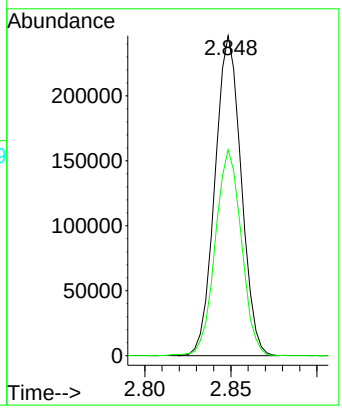




#29
Chloroform
Concen: 9.912 ppbv
RT: 2.848 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 83 Resp: 26085

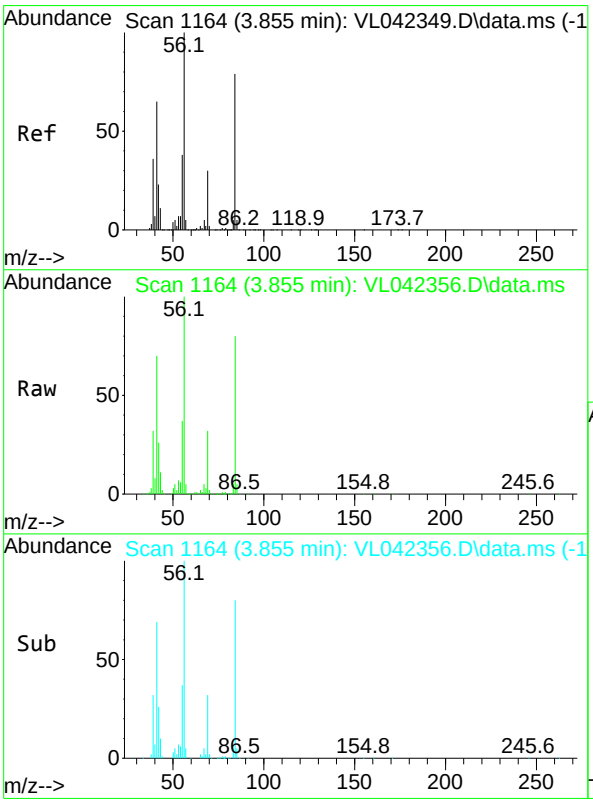
Ion	Ratio	Lower	Upper
83	100		
85	64.3	50.0	75.0



Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

Manual Integrations
APPROVED

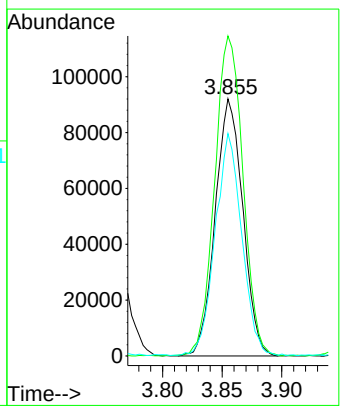
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

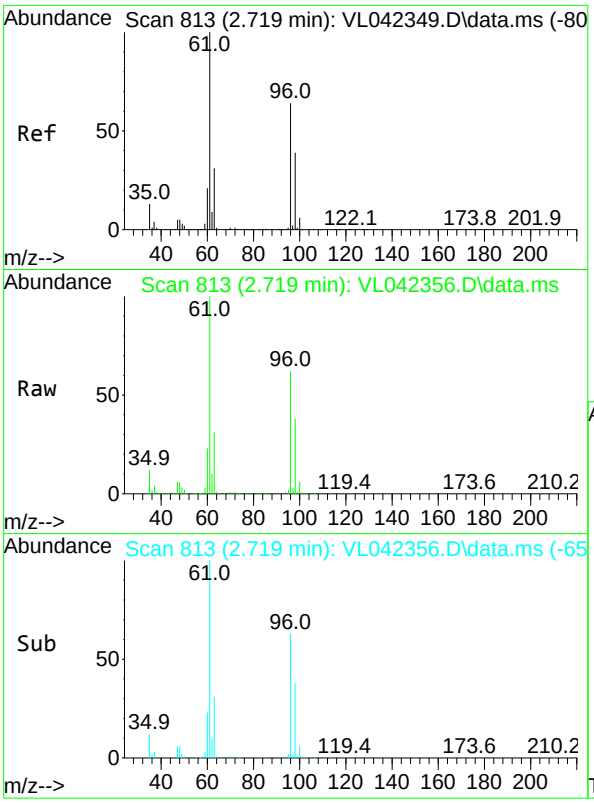


#30
Cyclohexane
Concen: 9.849 ppbv
RT: 3.855 min Scan# 1164
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

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

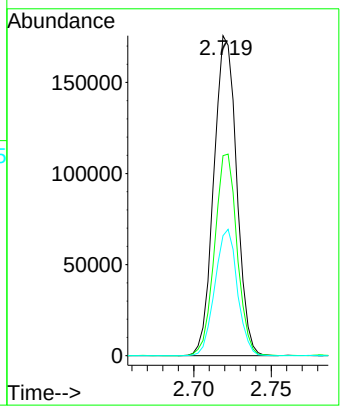




#31
cis-1,2-Dichloroethene
Concen: 10.167 ppbv
RT: 2.719 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 61 Resp: 17999

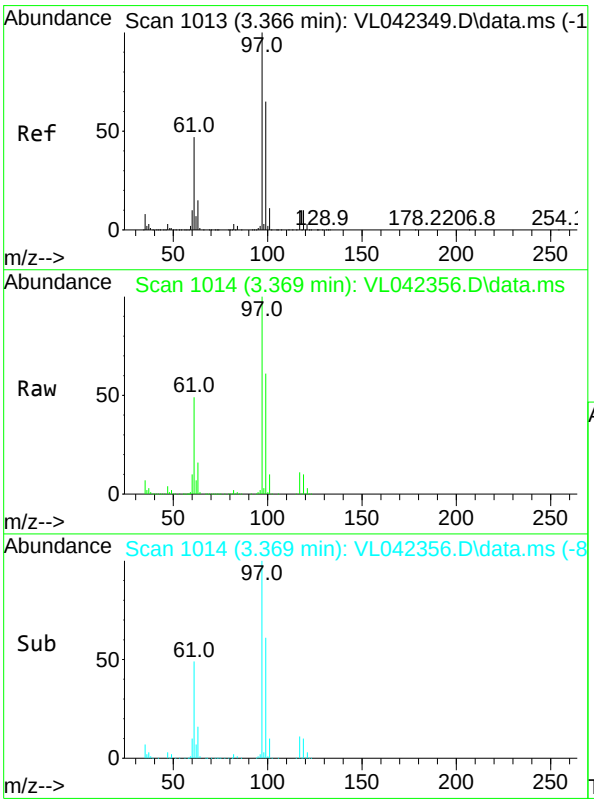
Ion	Ratio	Lower	Upper
61	100		
96	62.5	50.8	76.2
98	37.5	30.9	46.3



Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

Manual Integrations
APPROVED

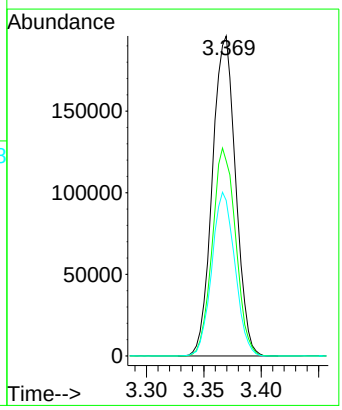
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

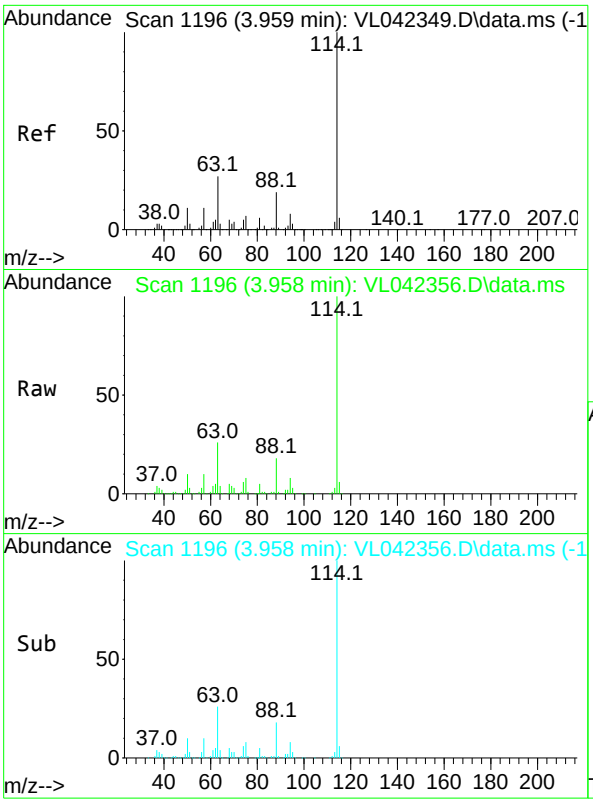


#32
1,1,1-Trichloroethane
Concen: 9.336 ppbv
RT: 3.369 min Scan# 1014
Delta R.T. 0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

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

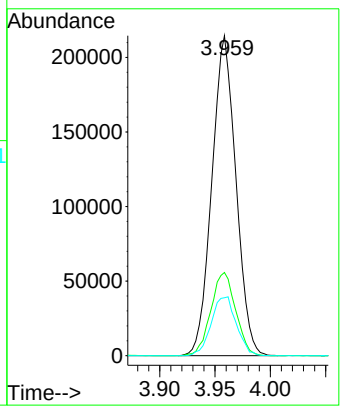




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.958 min Scan# 1
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion:114 Resp: 32452

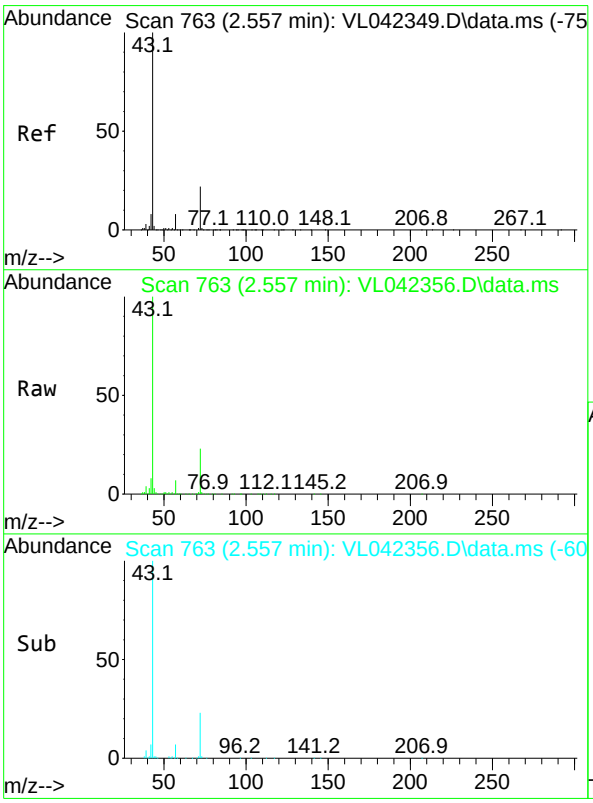
Ion	Ratio	Lower	Upper
114	100		
63	26.8	21.8	32.6
88	19.2	15.5	23.3



Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

Manual Integrations
APPROVED

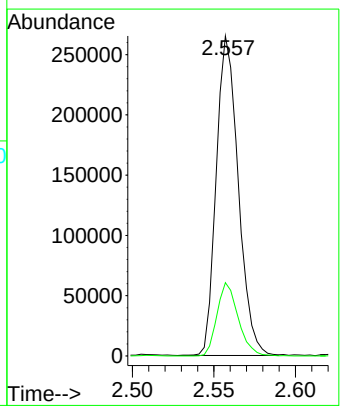
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

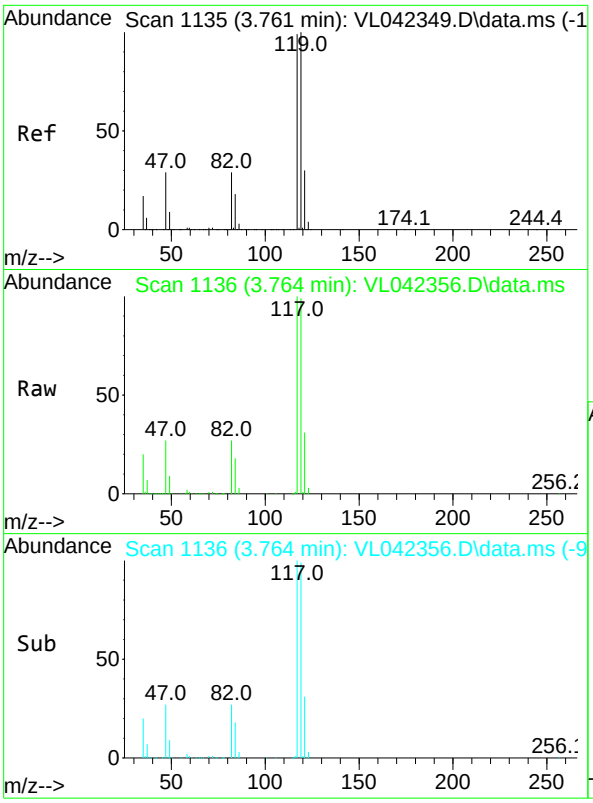


#34
2-Butanone
Concen: 9.700 ppbv
RT: 2.557 min Scan# 763
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 43 Resp: 248969

Ion	Ratio	Lower	Upper
43	100		
72	22.1	18.2	27.2

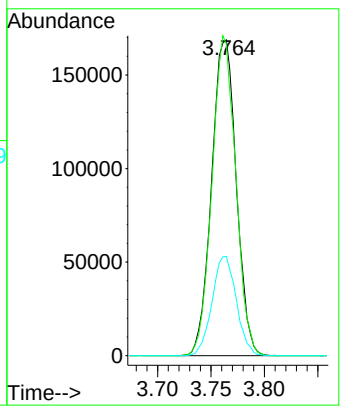




#35
Carbon Tetrachloride
Concen: 9.256 ppbv
RT: 3.764 min Scan# 1
Delta R.T. 0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion:117 Resp: 27186

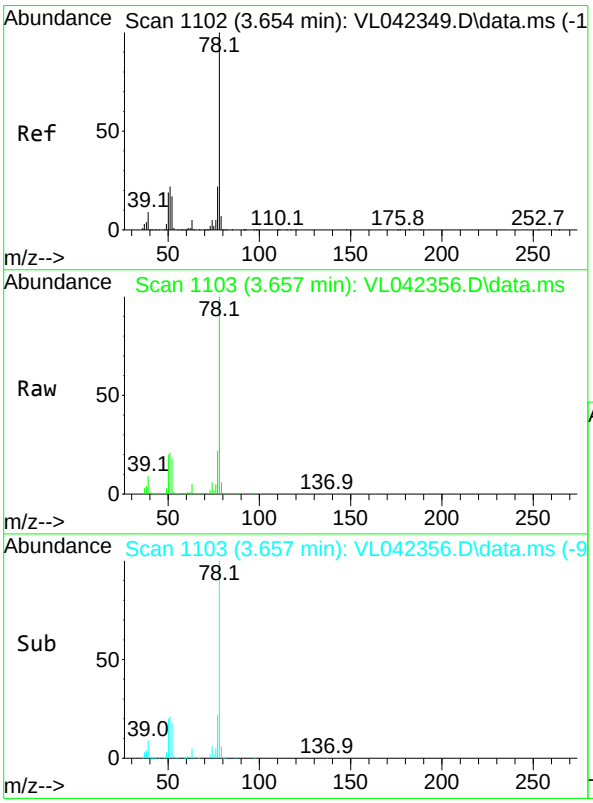
Ion	Ratio	Lower	Upper
117	100		
119	98.7	80.5	120.7
121	31.5	24.2	36.2



Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

Manual Integrations
APPROVED

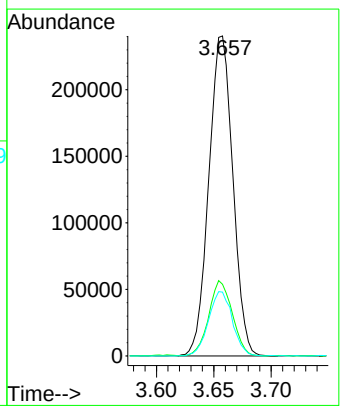
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

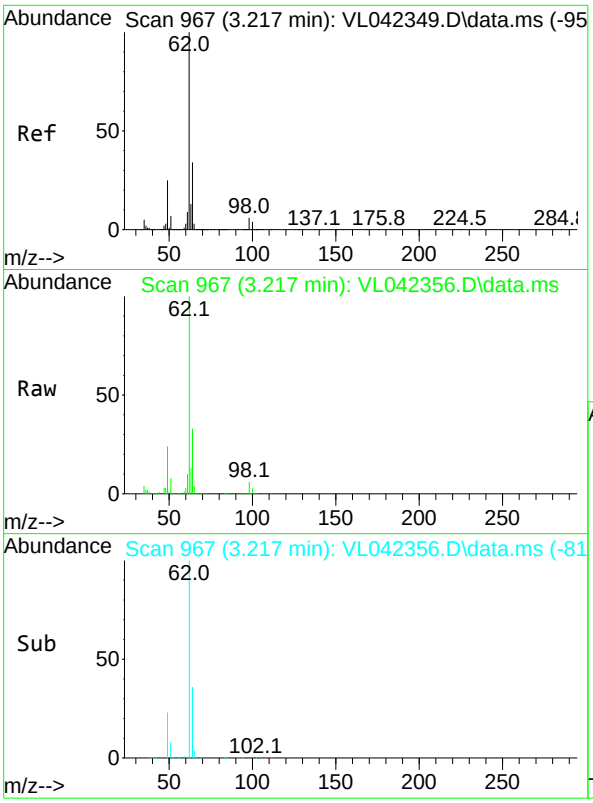


#36
Benzene
Concen: 10.014 ppbv
RT: 3.657 min Scan# 1103
Delta R.T. 0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

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

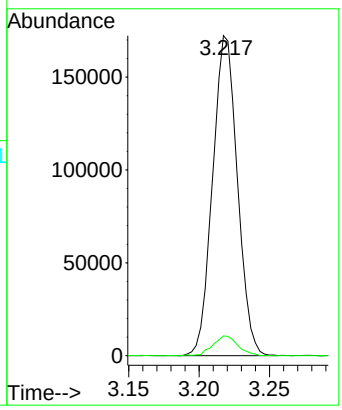




#37
1,2-Dichloroethane
Concen: 10.081 ppbv
RT: 3.217 min Scan# 9
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 62 Resp: 21179

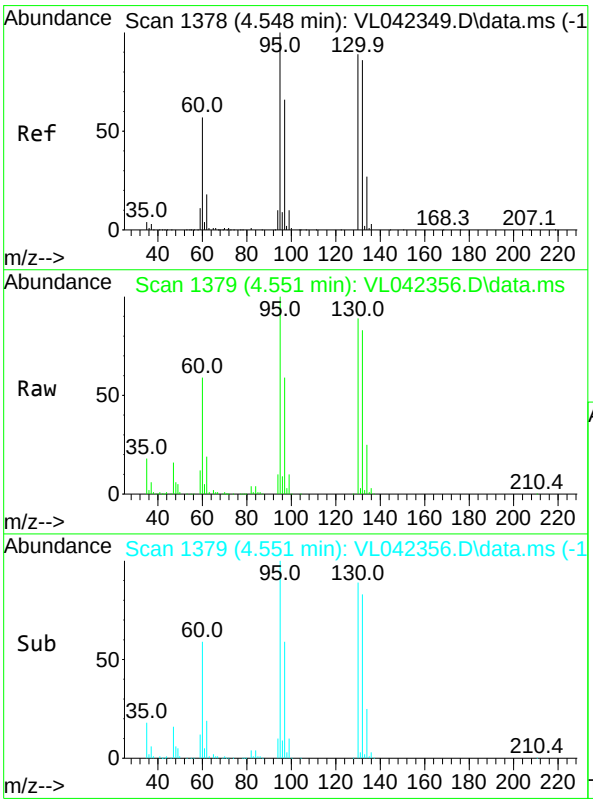
Ion	Ratio	Lower	Upper
62	100		
98	6.2	5.1	7.7



Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

Manual Integrations
APPROVED

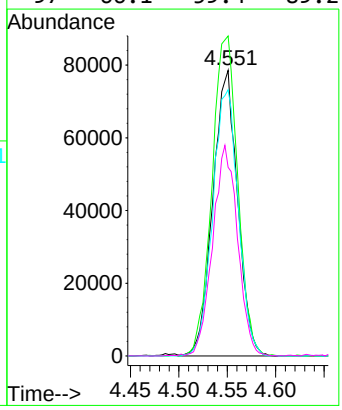
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

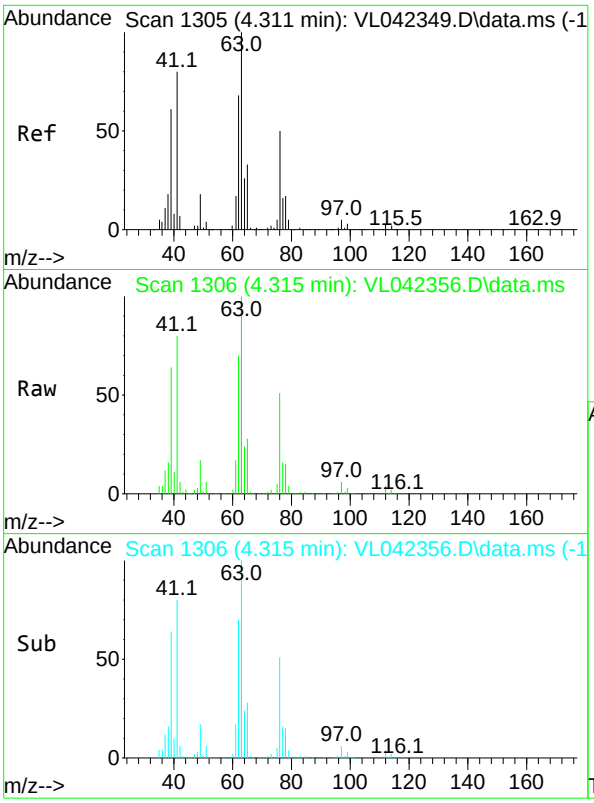


#38
Trichloroethene
Concen: 9.143 ppbv
RT: 4.551 min Scan# 1379
Delta R.T. 0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

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

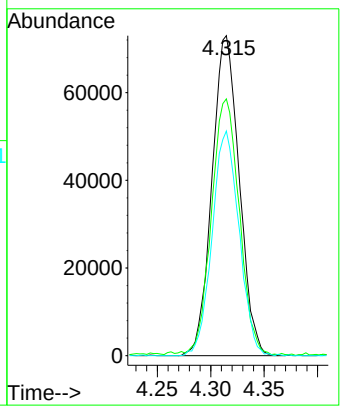




#39
1,2-Dichloropropane
Concen: 9.908 ppbv
RT: 4.315 min Scan# 1
Delta R.T. 0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 63 Resp: 12923

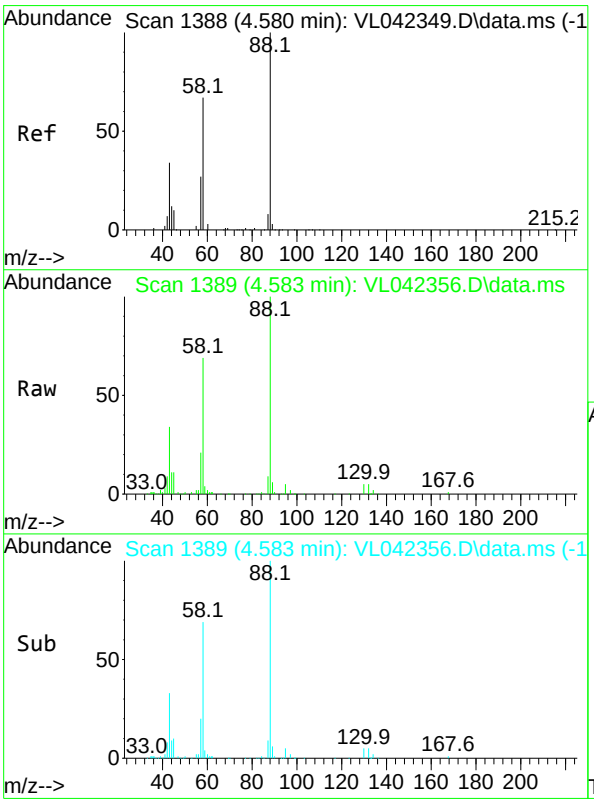
Ion	Ratio	Lower	Upper
63	100		
41	79.9	64.2	96.2
62	70.2	54.3	81.5



Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

Manual Integrations
APPROVED

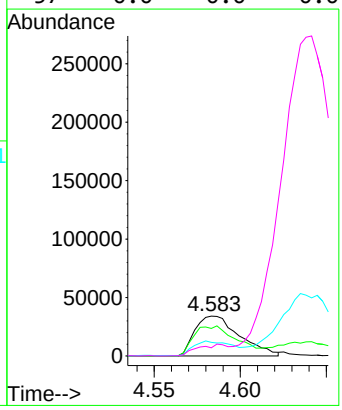
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

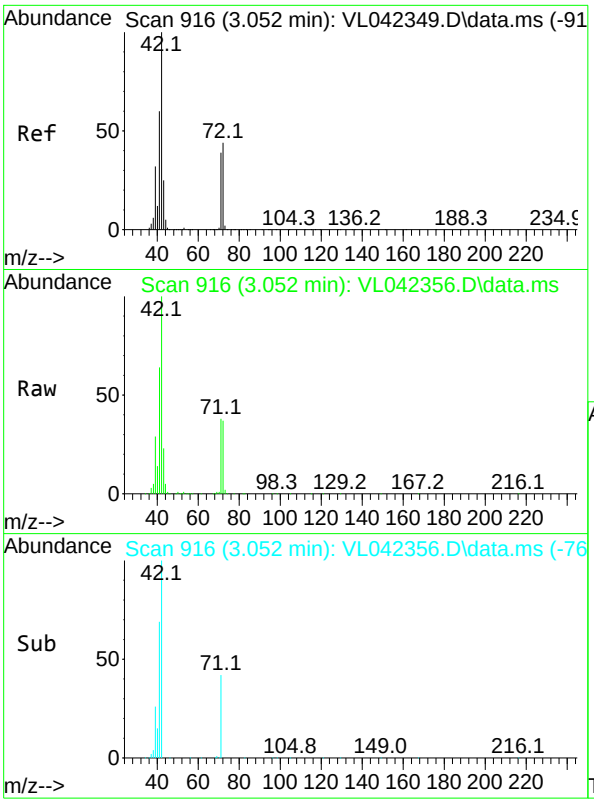


#40
1,4-Dioxane
Concen: 8.591 ppbv
RT: 4.583 min Scan# 1389
Delta R.T. 0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

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

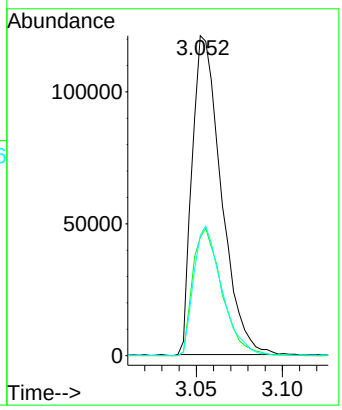




#41
Tetrahydrofuran
Concen: 9.479 ppbv
RT: 3.052 min Scan# 9
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 42 Resp: 14186

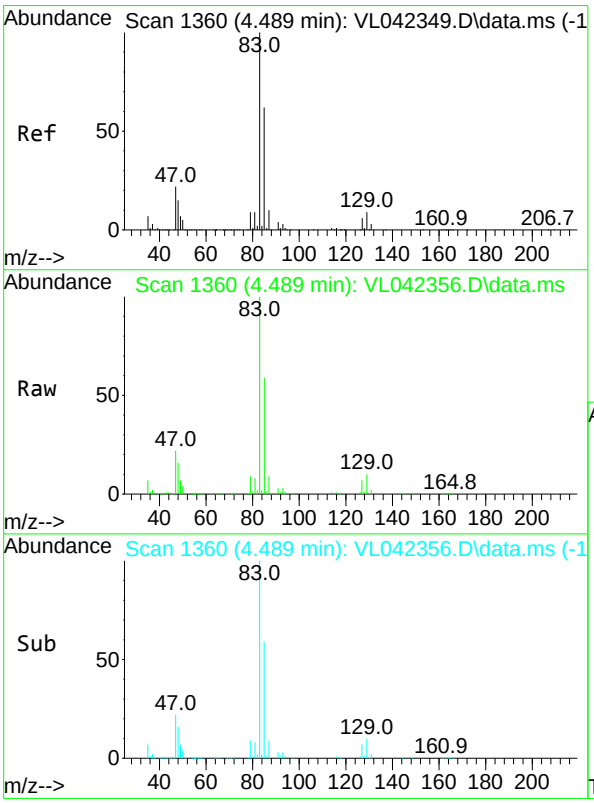
Ion	Ratio	Lower	Upper
42	100		
72	40.2	32.3	48.5
71	39.8	31.4	47.2



Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

Manual Integrations
APPROVED

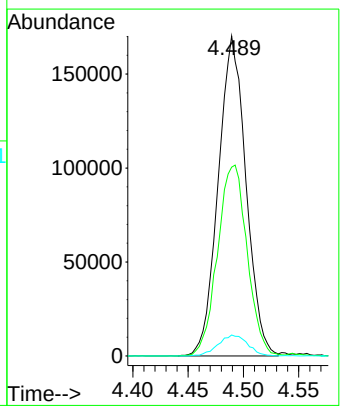
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

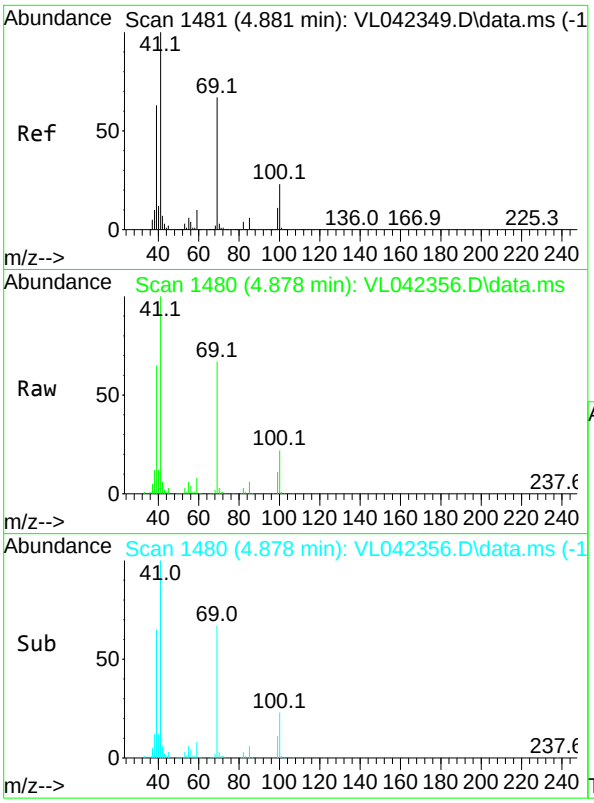


#42
Bromodichloromethane
Concen: 10.156 ppbv
RT: 4.489 min Scan# 1360
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

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

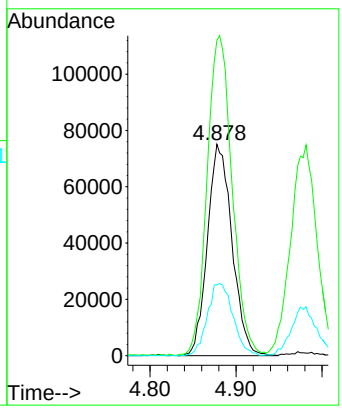




#43
Methyl Methacrylate
Concen: 9.458 ppbv
RT: 4.878 min Scan# 14
Delta R.T. -0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 69 Resp: 14920

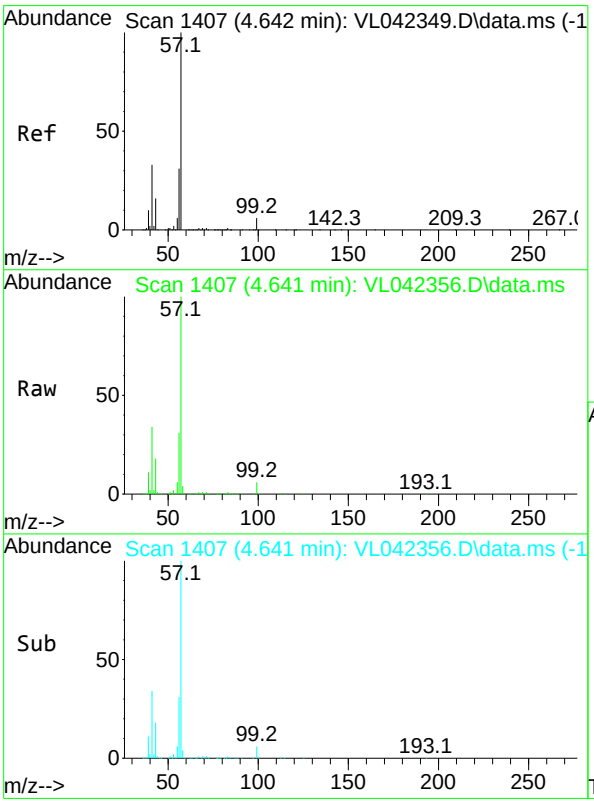
Ion	Ratio	Lower	Upper
69	100		
41	154.1	118.6	177.8
100	35.5	28.2	42.2



Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

Manual Integrations
APPROVED

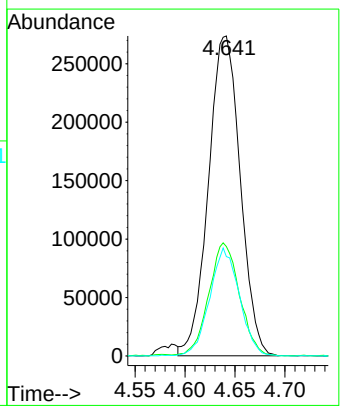
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

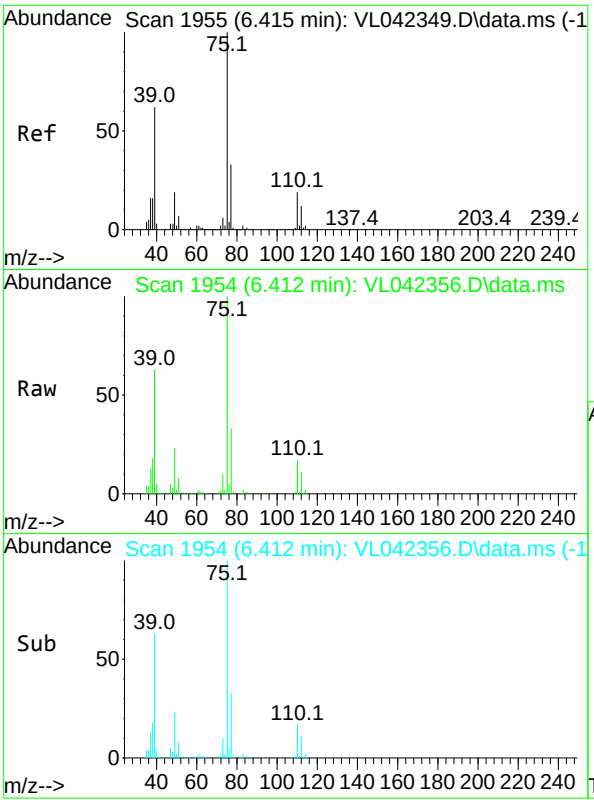


#44
2,2,4-Trimethylpentane
Concen: 10.030 ppbv
RT: 4.641 min Scan# 1407
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

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

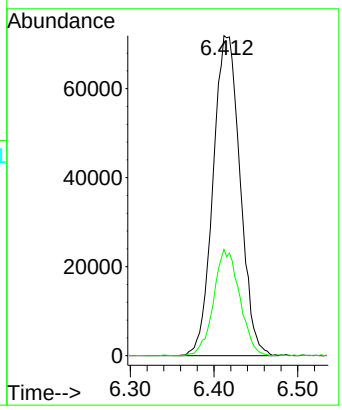




#45
t-1,3-Dichloropropene
Concen: 9.975 ppbv
RT: 6.412 min Scan# 1
Delta R.T. -0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 75 Resp: 16075

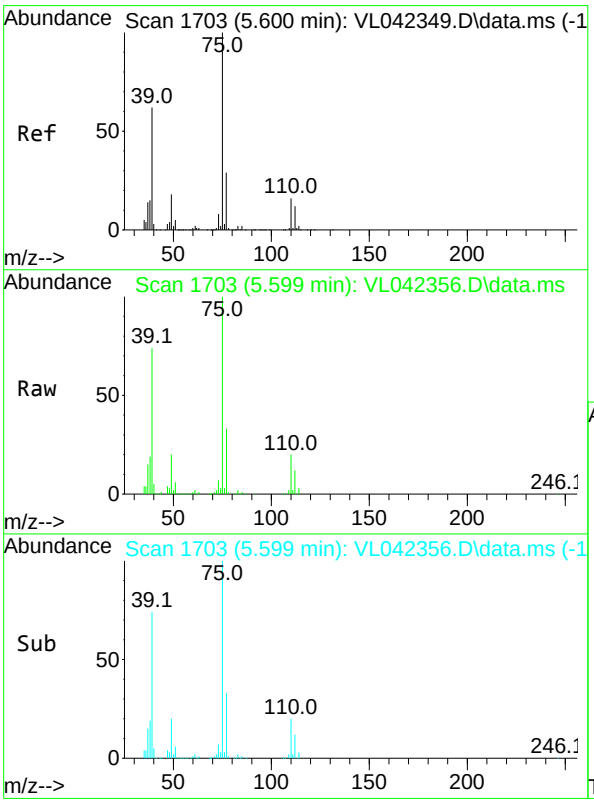
Ion	Ratio	Lower	Upper
75	100		
77	33.2	27.0	40.6



Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

Manual Integrations
APPROVED

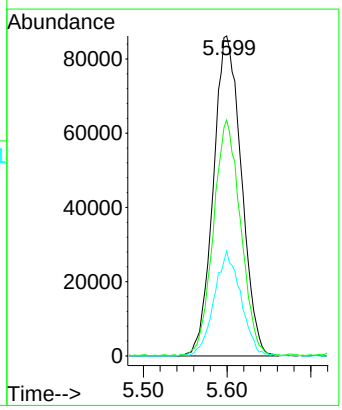
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

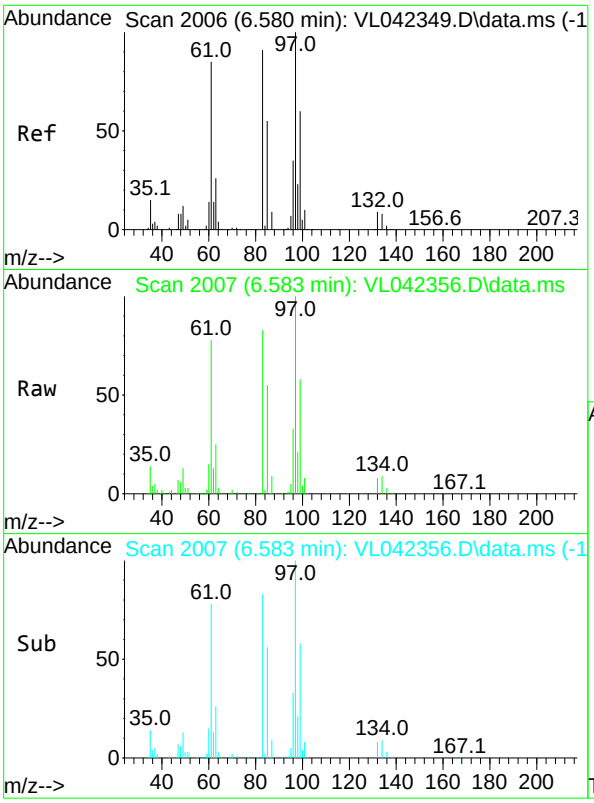


#46
cis-1,3-Dichloropropene
Concen: 10.148 ppbv
RT: 5.599 min Scan# 1703
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

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

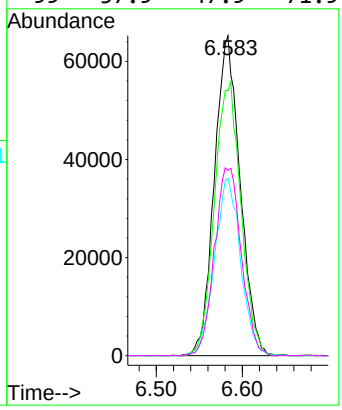




#47
1,1,2-Trichloroethane
Concen: 10.202 ppbv
RT: 6.583 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 97 Resp: 13557

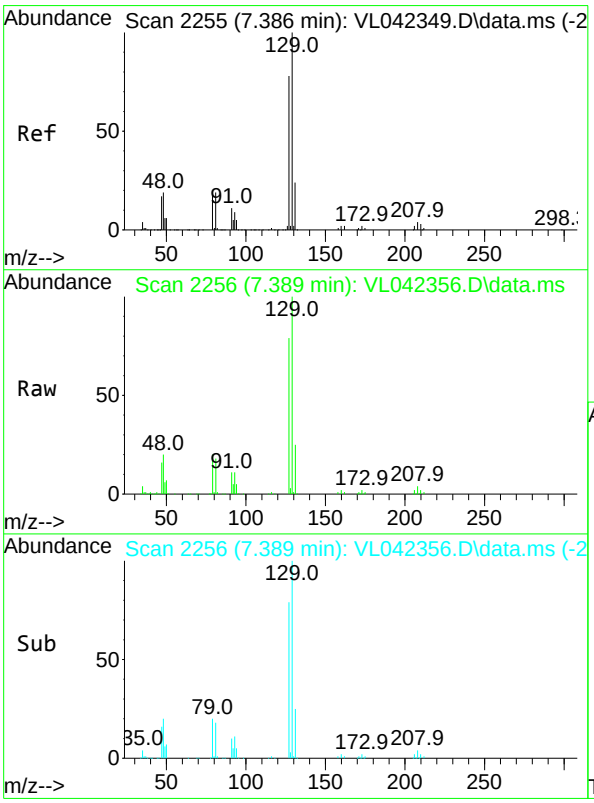
Ion	Ratio	Lower	Upper
97	100		
83	82.8	72.8	109.2
85	55.5	44.2	66.4
99	57.9	47.9	71.9



Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

Manual Integrations
APPROVED

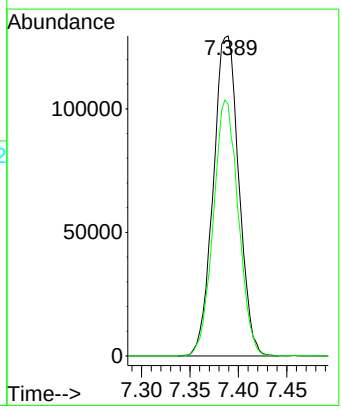
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

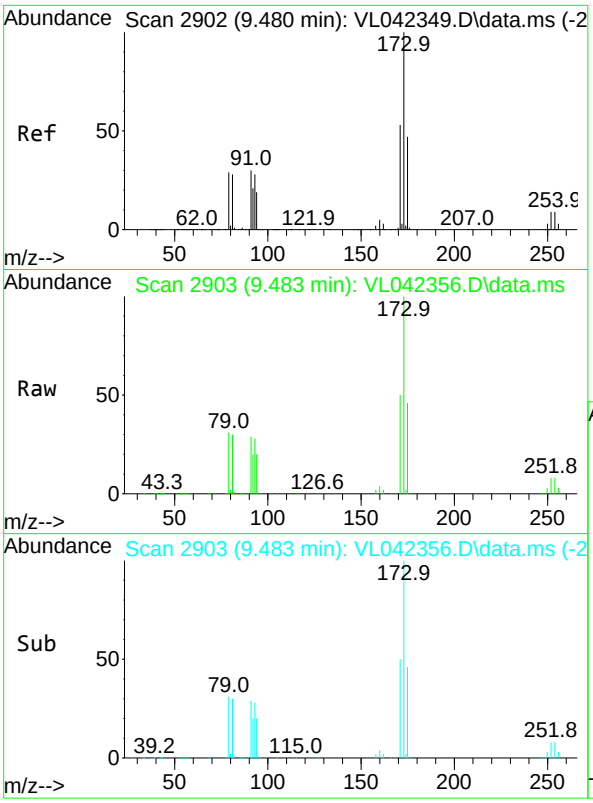


#48
Dibromochloromethane
Concen: 10.103 ppbv
RT: 7.389 min Scan# 2256
Delta R.T. 0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion:129 Resp: 237206

Ion	Ratio	Lower	Upper
129	100		
127	78.4	39.1	117.3

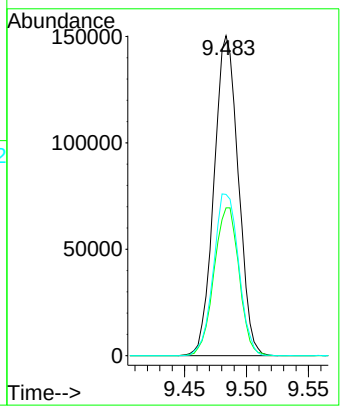




#49
Bromoform
Concen: 10.016 ppbv
RT: 9.483 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion:173 Resp: 20563

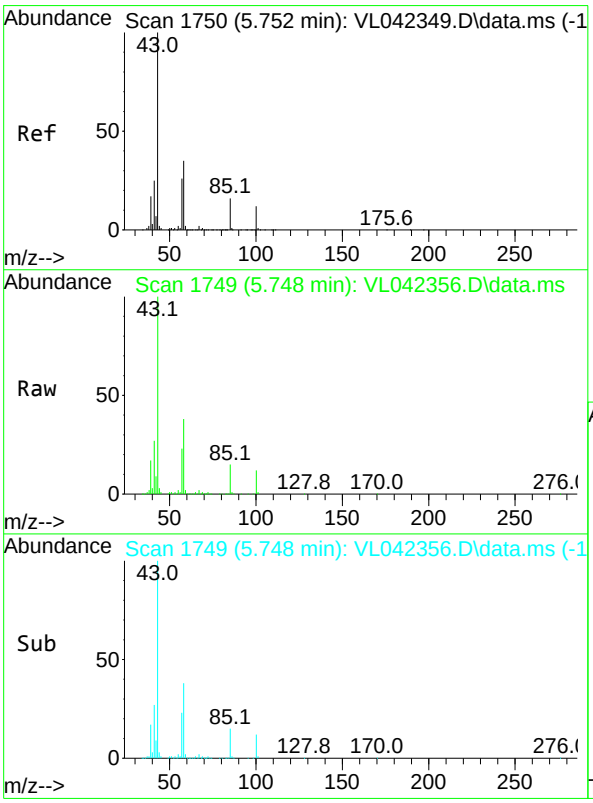
Ion	Ratio	Lower	Upper
173	100		
175	47.6	38.2	57.2
171	52.5	40.9	61.3



Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

Manual Integrations
APPROVED

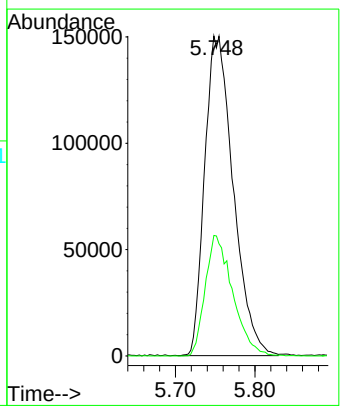
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

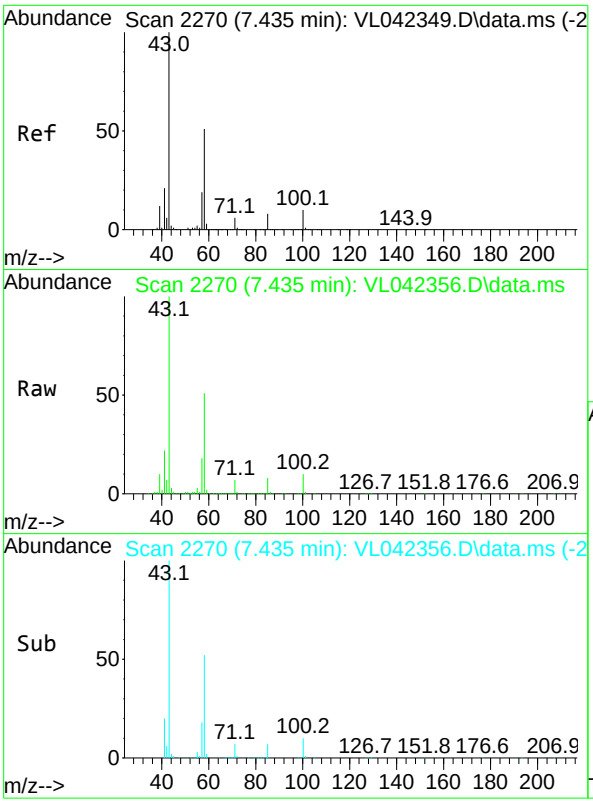


#50
4-Methyl-2-Pentanone
Concen: 8.819 ppbv
RT: 5.748 min Scan# 1749
Delta R.T. -0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

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

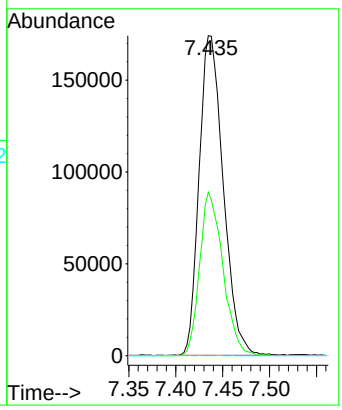
Tgt Ion: 43 Resp: 31052

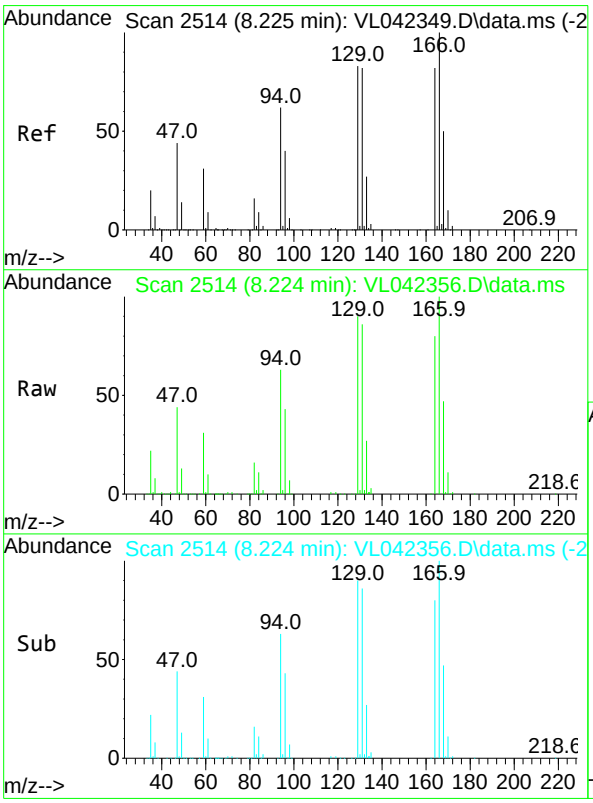
Ion	Ratio	Lower	Upper
43	100		
58	49.3	40.2	60.4
98	0.0	0.1	0.1

Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

Manual Integrations
APPROVED

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

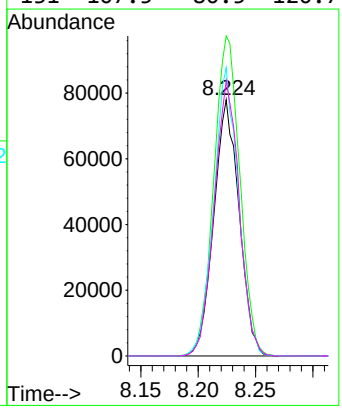


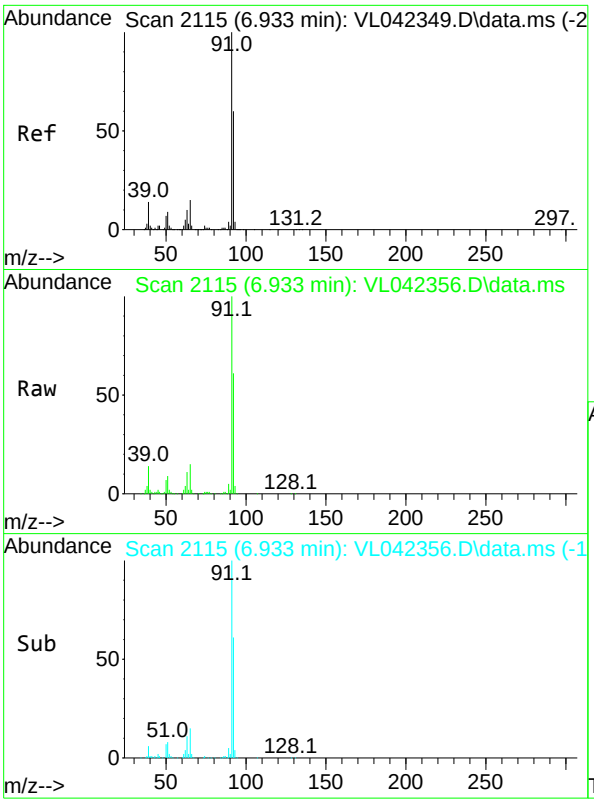


#52
Tetrachloroethene
Concen: 8.827 ppbv
RT: 8.224 min Scan# 2514
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

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

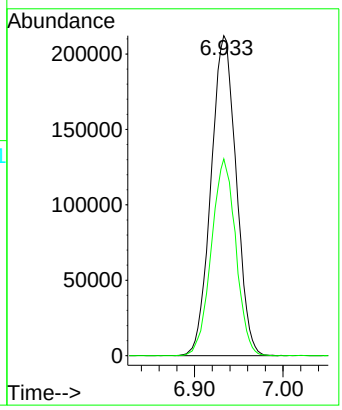




#53
Toluene
Concen: 9.986 ppbv
RT: 6.933 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 91 Resp: 41946

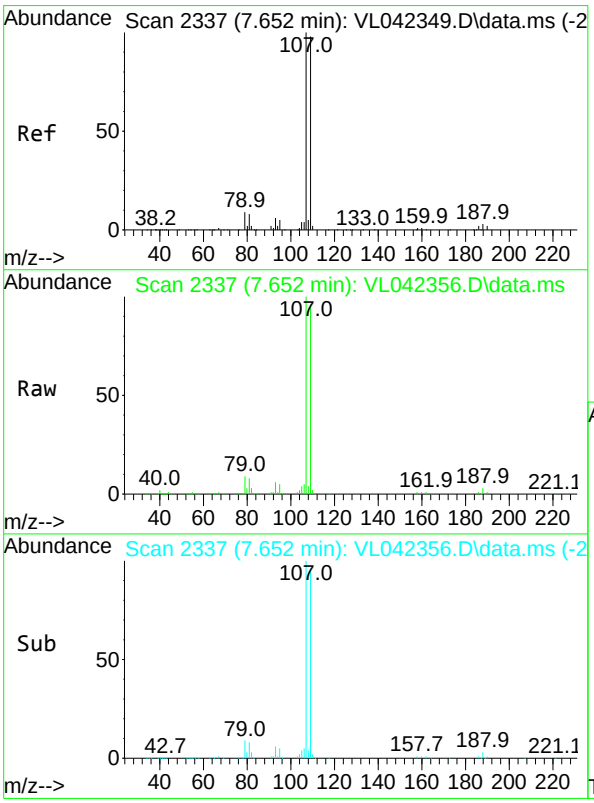
Ion	Ratio	Lower	Upper
91	100		
92	59.6	48.2	72.4



Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

Manual Integrations
APPROVED

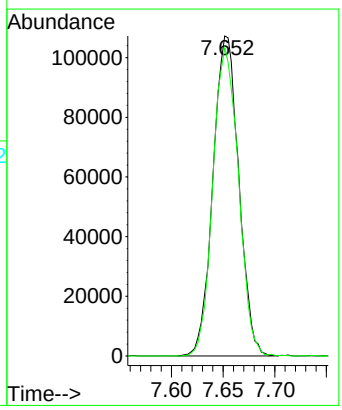
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

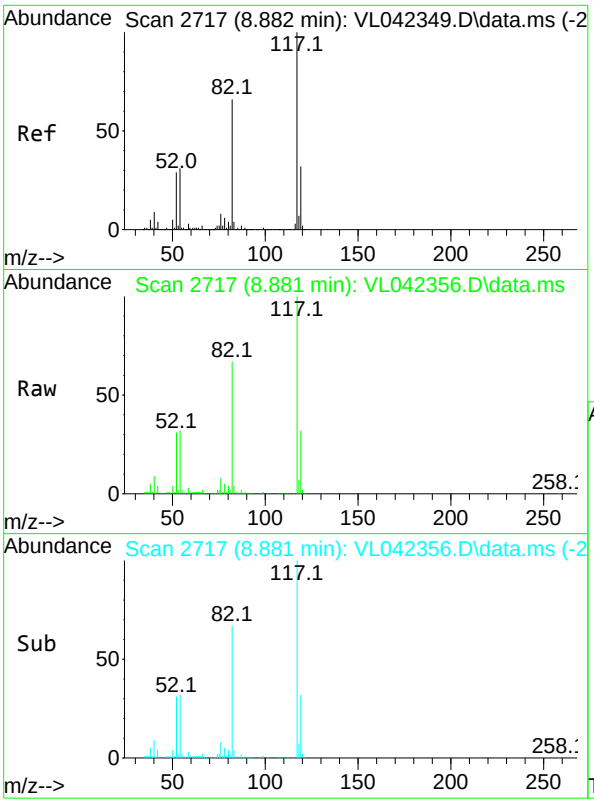


#54
1,2-Dibromoethane
Concen: 9.792 ppbv
RT: 7.652 min Scan# 2337
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion:107 Resp: 186231

Ion	Ratio	Lower	Upper
107	100		
109	96.3	78.2	117.4

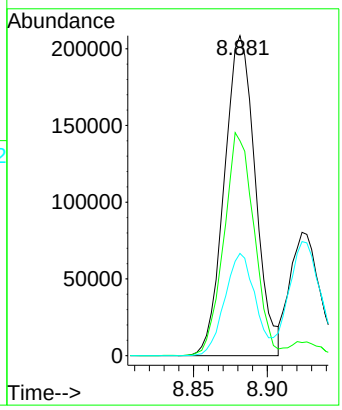




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.881 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion:117 Resp: 30535

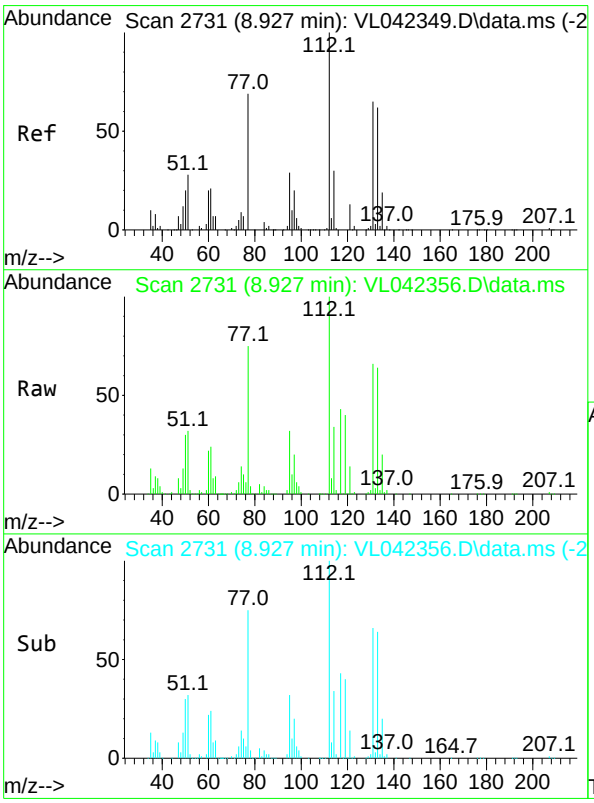
Ion	Ratio	Lower	Upper
117	100		
82	68.3	57.8	86.6
119	31.8	25.2	37.8



Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

Manual Integrations
APPROVED

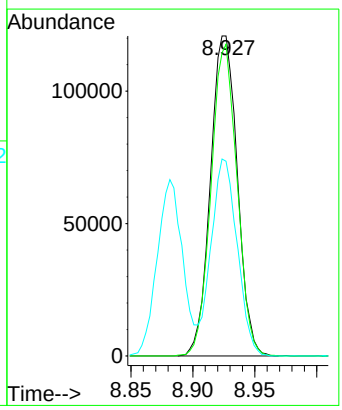
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

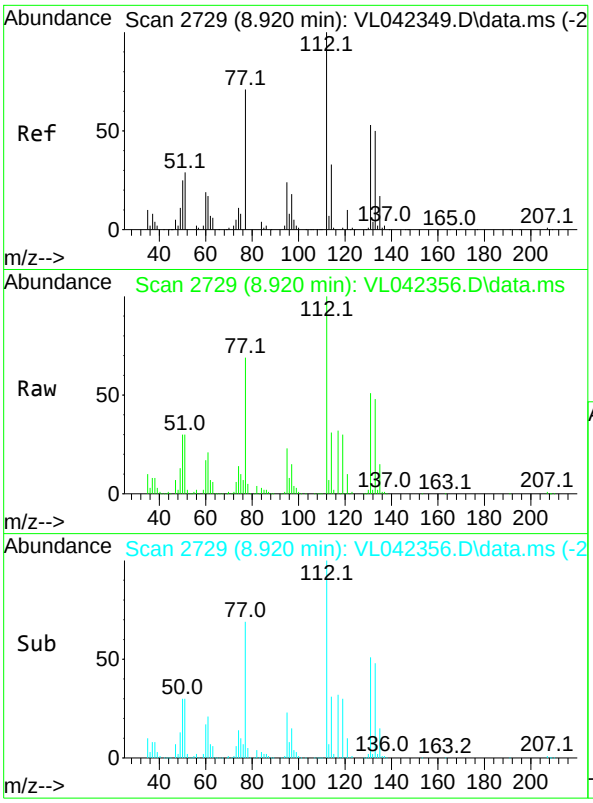


#56
1,1,1,2-Tetrachloroethane
Concen: 9.886 ppbv
RT: 8.927 min Scan# 2731
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

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

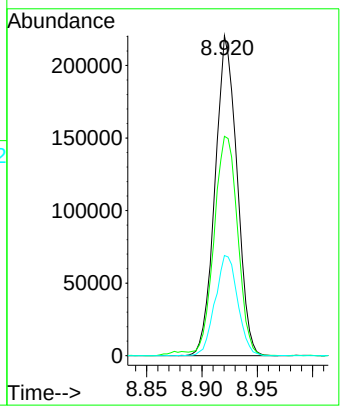




#57
Chlorobenzene
Concen: 9.589 ppbv
RT: 8.920 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion:112 Resp: 30453

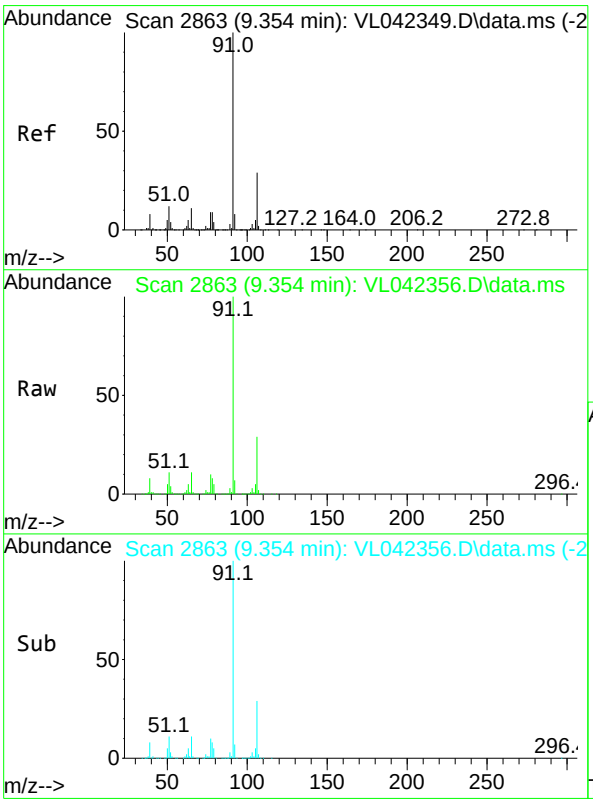
Ion	Ratio	Lower	Upper
112	100		
77	68.5	57.8	86.6
114	31.3	29.3	35.9



Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

Manual Integrations
APPROVED

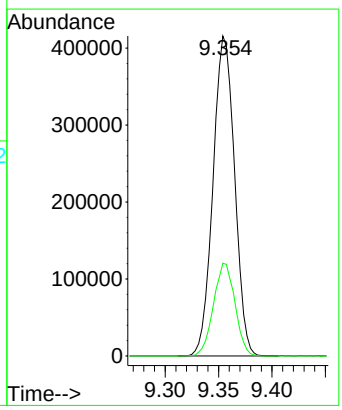
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

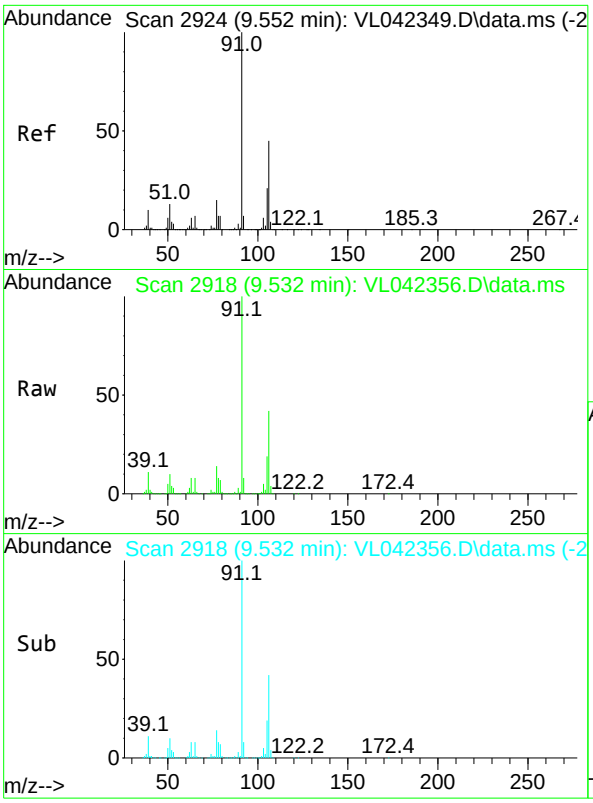


#58
Ethyl Benzene
Concen: 9.645 ppbv
RT: 9.354 min Scan# 2863
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

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

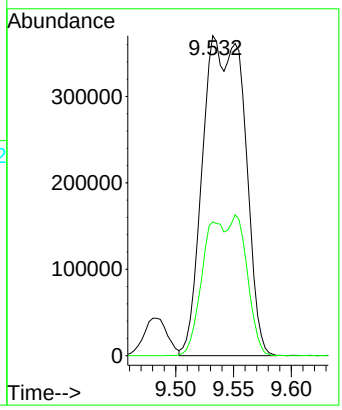
Tgt Ion: 91 Resp: 93280

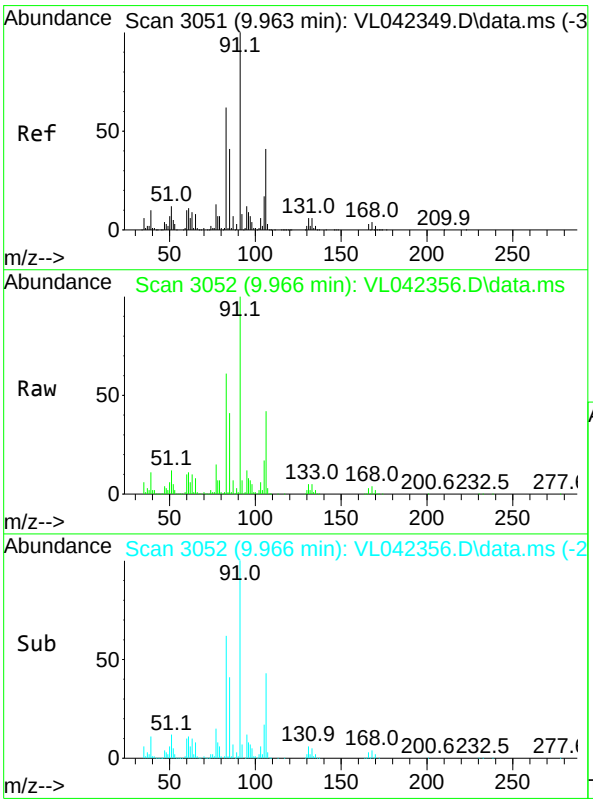
Ion	Ratio	Lower	Upper
91	100		
106	43.7	35.4	53.2

Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

Manual Integrations
APPROVED

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

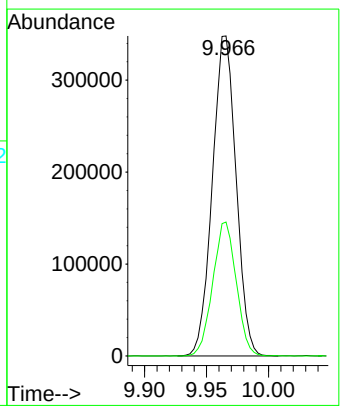


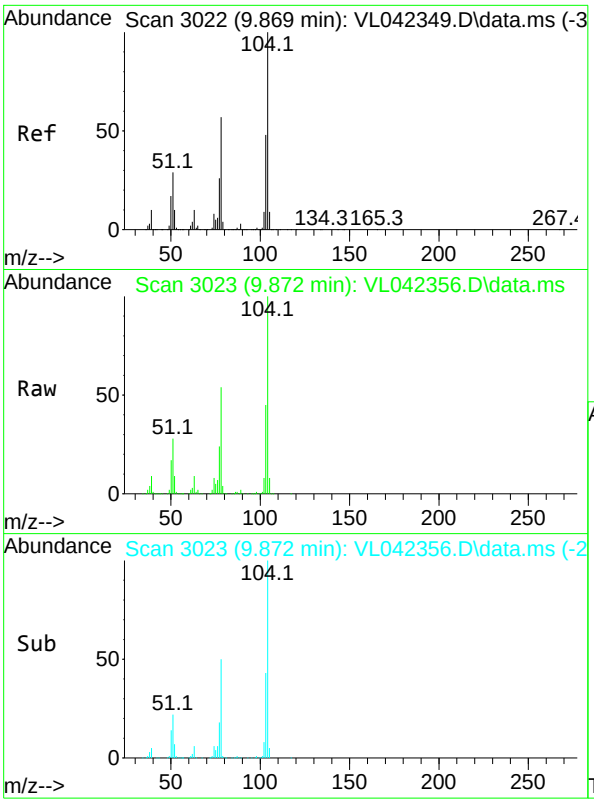


#60
o-Xylene
Concen: 9.465 ppbv
RT: 9.966 min Scan# 3052
Delta R.T. 0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 91 Resp: 464522

Ion	Ratio	Lower	Upper
91	100		
106	41.4	21.1	63.4

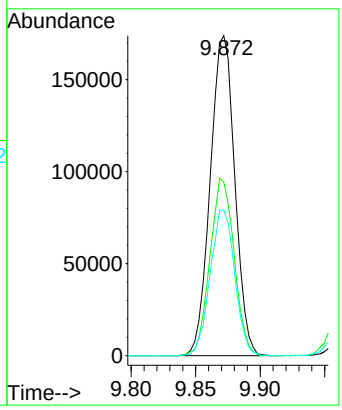




#61
Styrene
Concen: 9.813 ppbv
RT: 9.872 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion:104 Resp: 22986

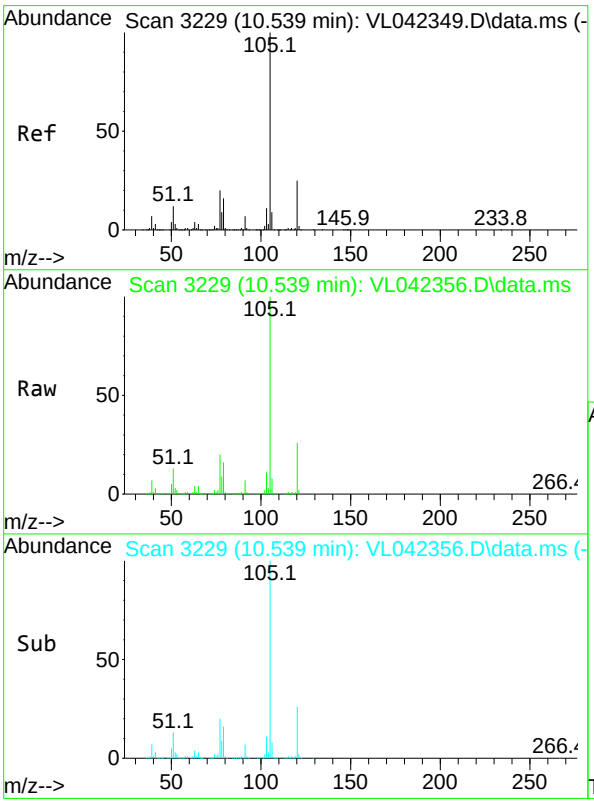
Ion	Ratio	Lower	Upper
104	100		
78	54.5	44.6	66.8
103	45.7	37.4	56.0



Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

Manual Integrations
APPROVED

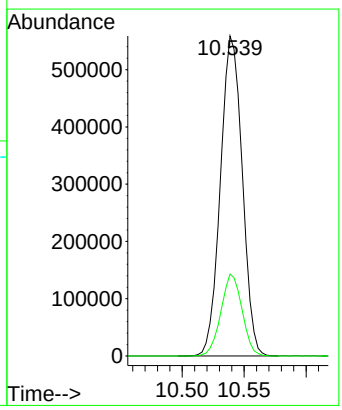
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

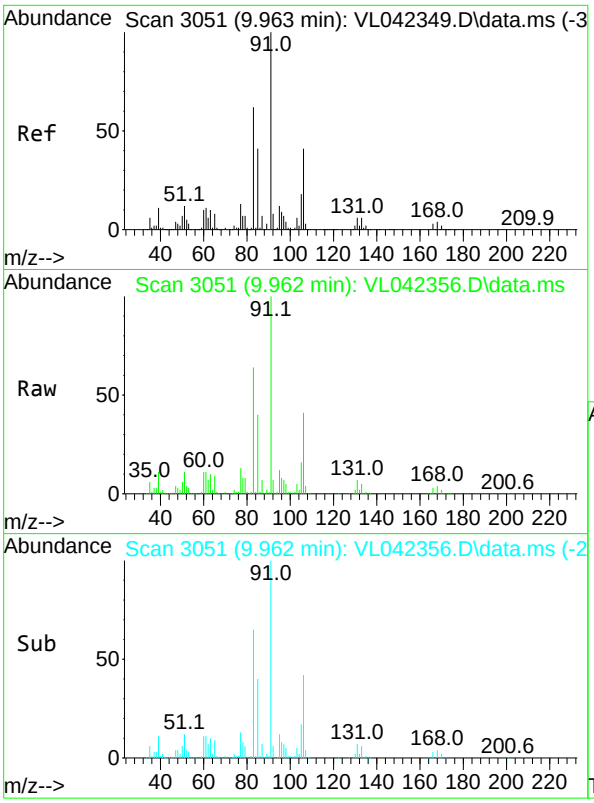


#62
Isopropylbenzene
Concen: 9.520 ppbv
RT: 10.539 min Scan# 3229
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

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

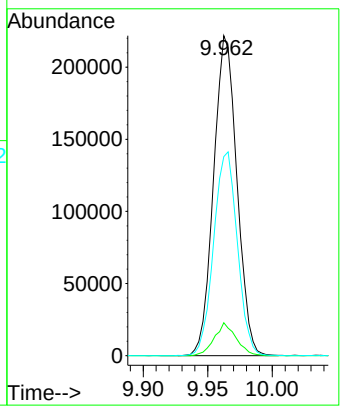
Tgt Ion: 83 Resp: 27900

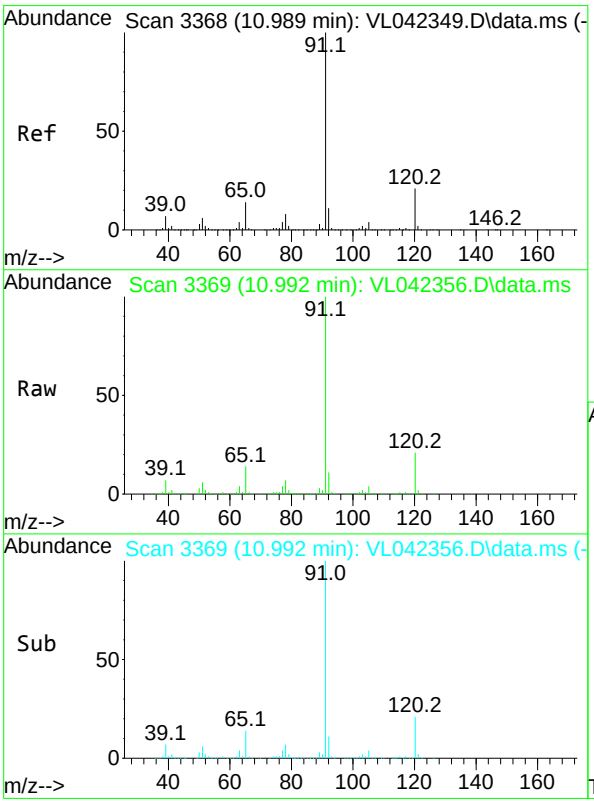
Ion	Ratio	Lower	Upper
83	100		
131	9.6	4.5	13.7
85	64.6	32.4	97.0

Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

Manual Integrations
APPROVED

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

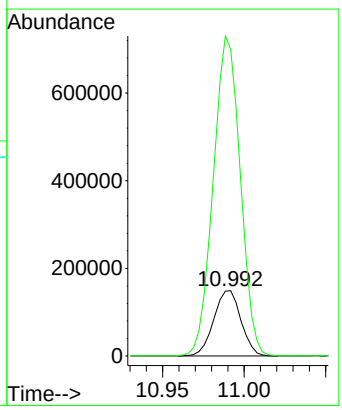


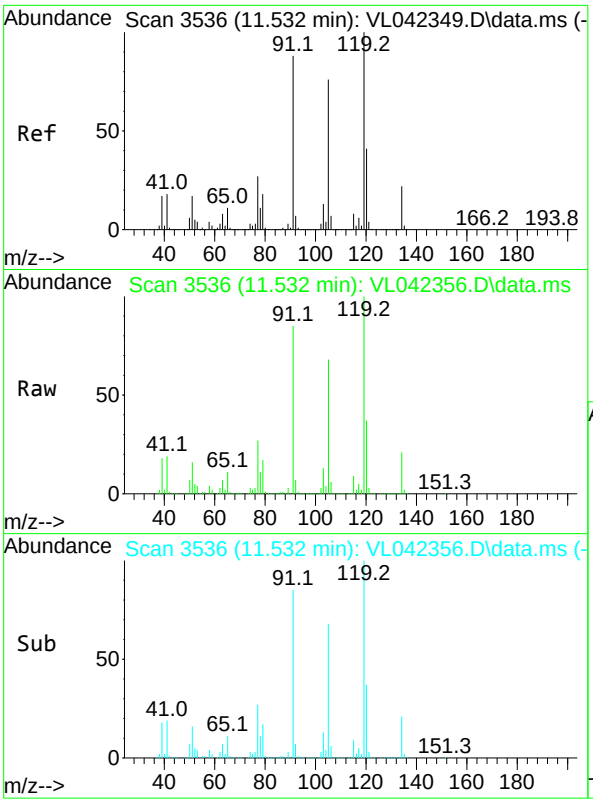


#64
n-propylbenzene
Concen: 9.533 ppbv
RT: 10.992 min Scan# 3369
Delta R.T. 0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion:120 Resp: 172654

Ion	Ratio	Lower	Upper
120	100		
91	487.7	392.4	588.6

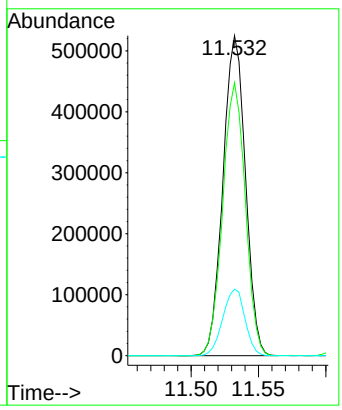




#65
tert-Butylbenzene
Concen: 9.203 ppbv
RT: 11.532 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion:119 Resp: 60950

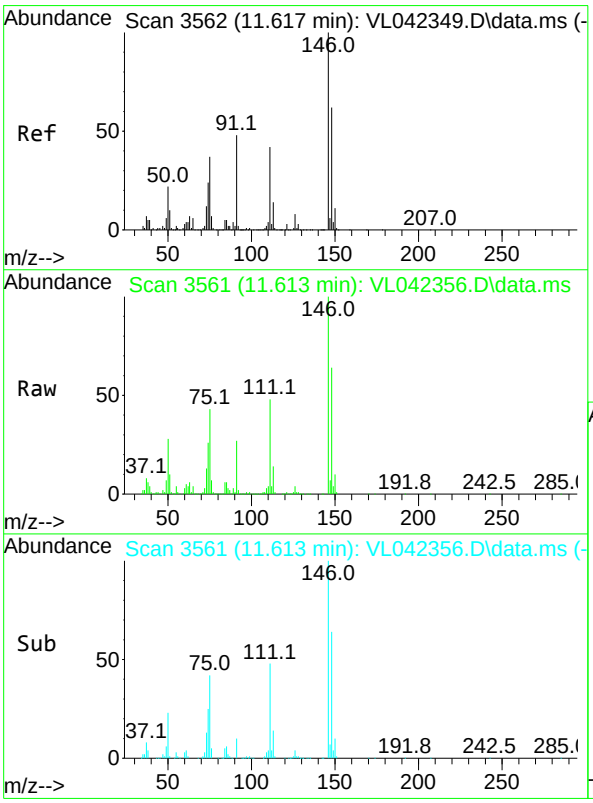
Ion	Ratio	Lower	Upper
119	100		
91	85.8	74.6	111.8
134	20.5	18.8	28.2



Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

Manual Integrations
APPROVED

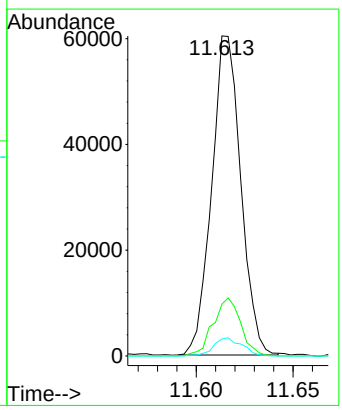
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

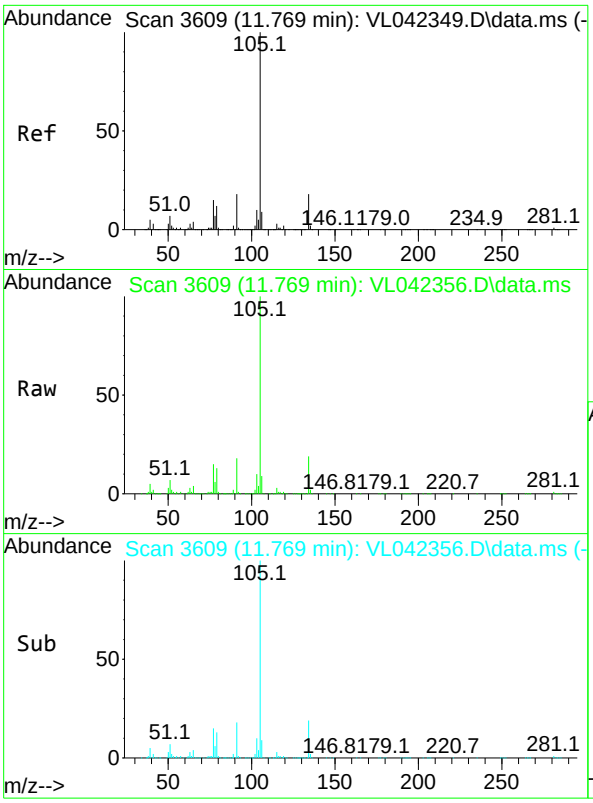


#66
Benzyl Chloride
Concen: 8.664 ppbv
RT: 11.613 min Scan# 3561
Delta R.T. -0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

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

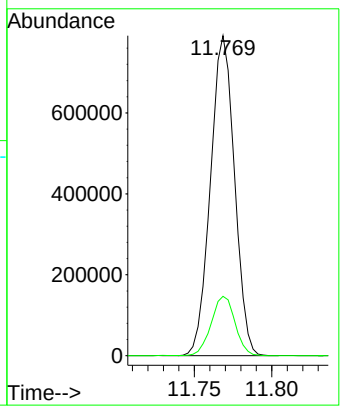




#67
sec-Butylbenzene
Concen: 9.268 ppbv
RT: 11.769 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion:105 Resp: 85380

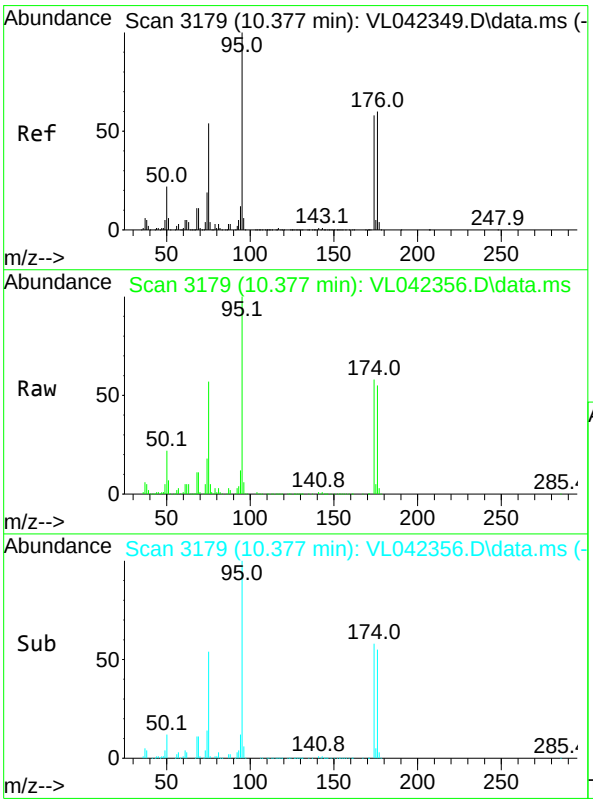
Ion	Ratio	Lower	Upper
105	100		
134	18.5	14.6	21.8



Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

Manual Integrations
APPROVED

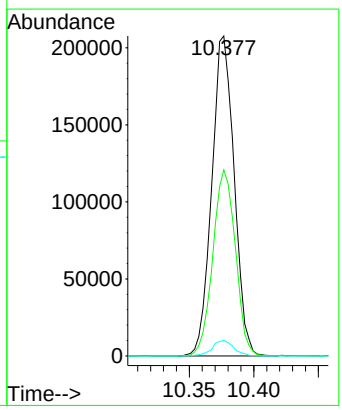
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

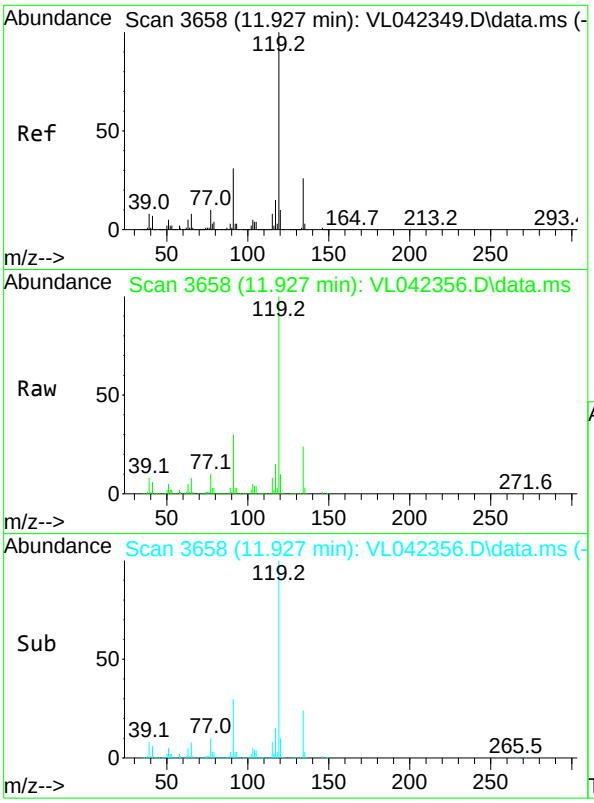


#68
1-Bromo-4-Fluorobenzene
Concen: 9.969 ppbv
RT: 10.377 min Scan# 3179
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

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

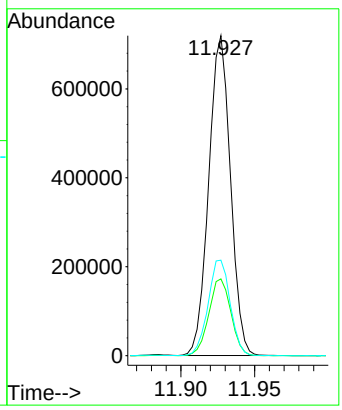




#69
p-Isopropyltoluene
Concen: 9.220 ppbv
RT: 11.927 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion:119 Resp: 73786

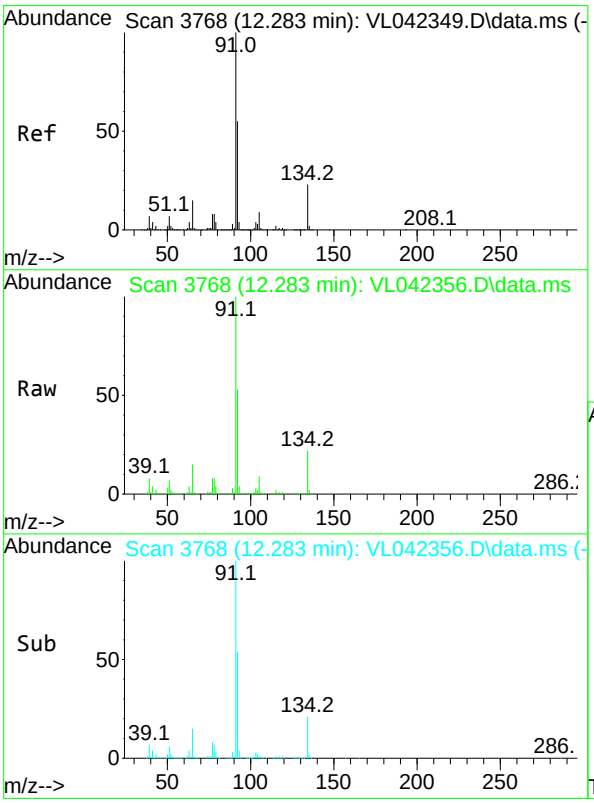
Ion	Ratio	Lower	Upper
119	100		
134	24.5	20.0	30.0
91	30.6	24.4	36.6



Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

Manual Integrations
APPROVED

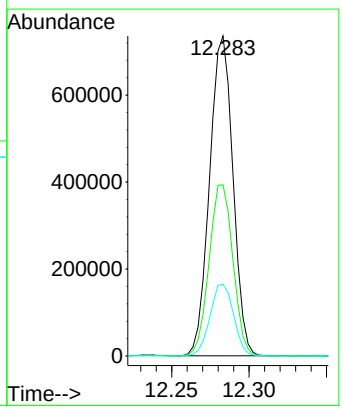
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

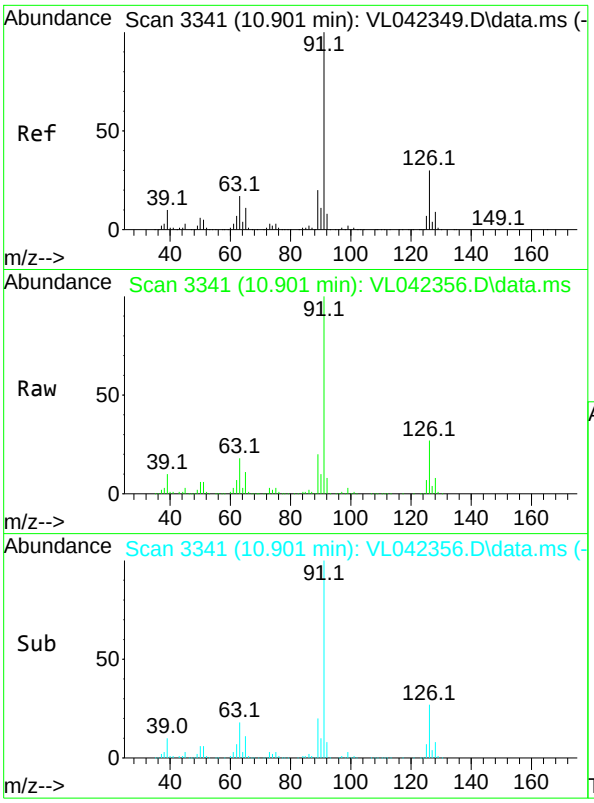


#70
n-Butylbenzene
Concen: 9.255 ppbv
RT: 12.283 min Scan# 3768
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

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

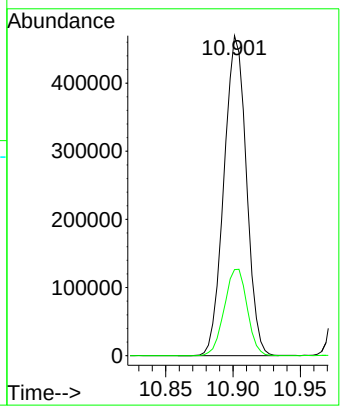




#71
2-Chlorotoluene
Concen: 9.622 ppbv
RT: 10.901 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 91 Resp: 54379

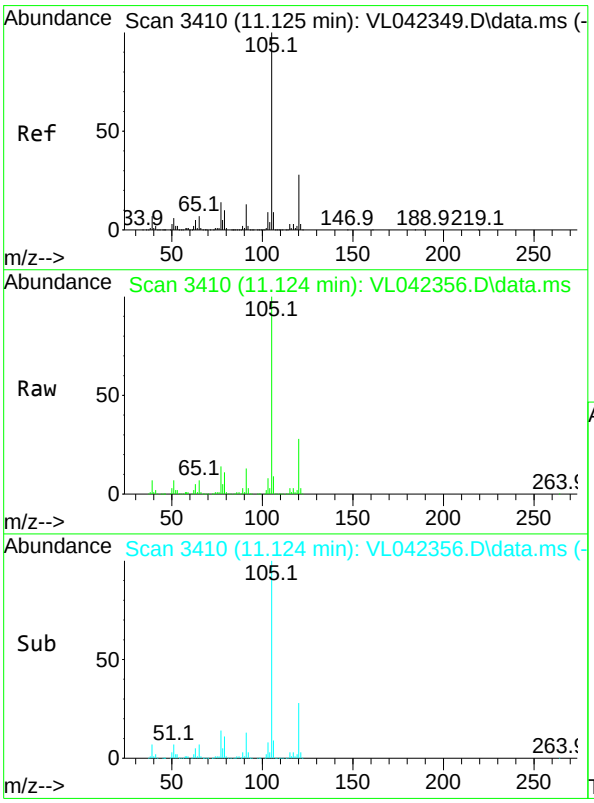
Ion	Ratio	Lower	Upper
91	100		
126	27.5	11.4	45.4



Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

Manual Integrations
APPROVED

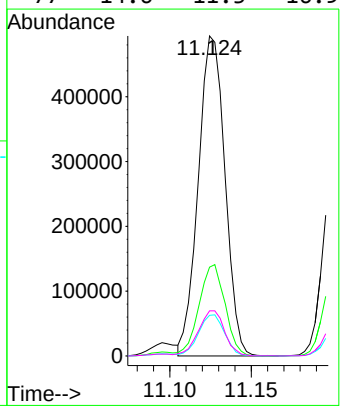
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

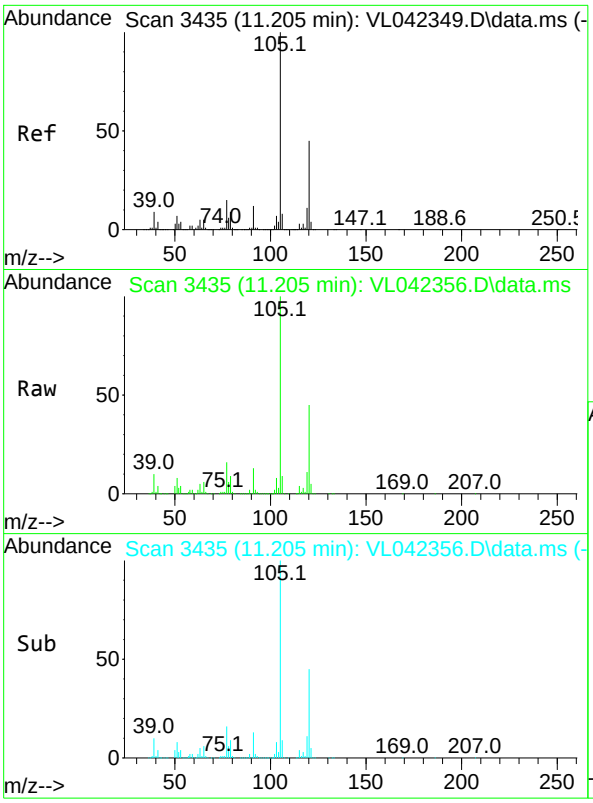


#72
4-Ethyltoluene
Concen: 9.385 ppbv
RT: 11.124 min Scan# 3410
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

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

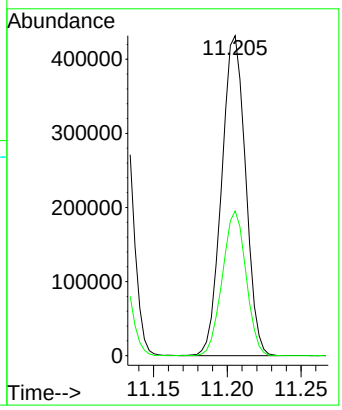




#73
1,3,5-Trimethylbenzene
Concen: 9.186 ppbv
RT: 11.205 min Scan# 34
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion:105 Resp: 48658

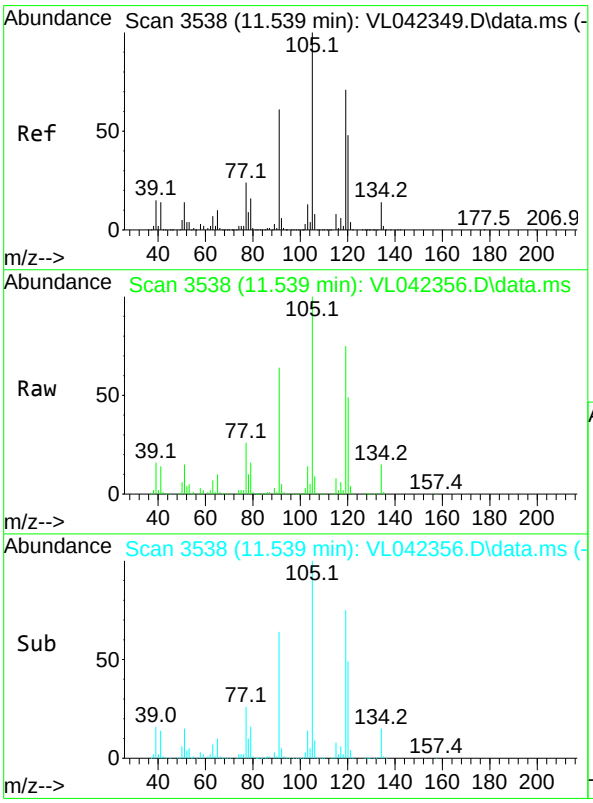
Ion	Ratio	Lower	Upper
105	100		
120	45.2	35.6	53.4



Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

Manual Integrations
APPROVED

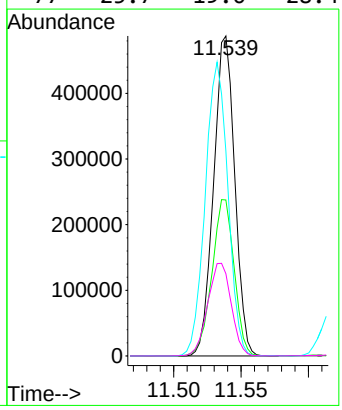
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

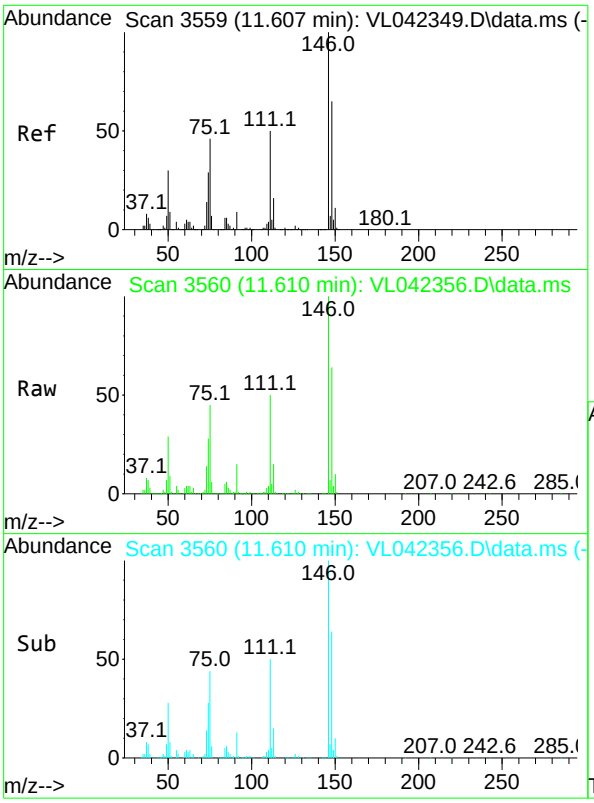


#74
1,2,4-Trimethylbenzene
Concen: 8.592 ppbv
RT: 11.539 min Scan# 3538
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

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

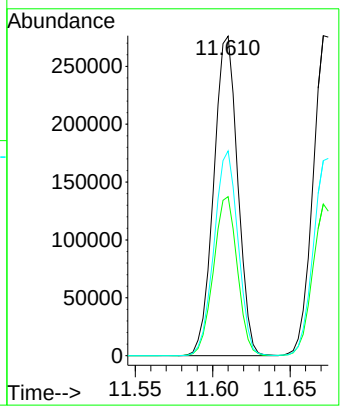




#75
1,3-Dichlorobenzene
Concen: 9.240 ppbv
RT: 11.610 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion:146 Resp: 29715

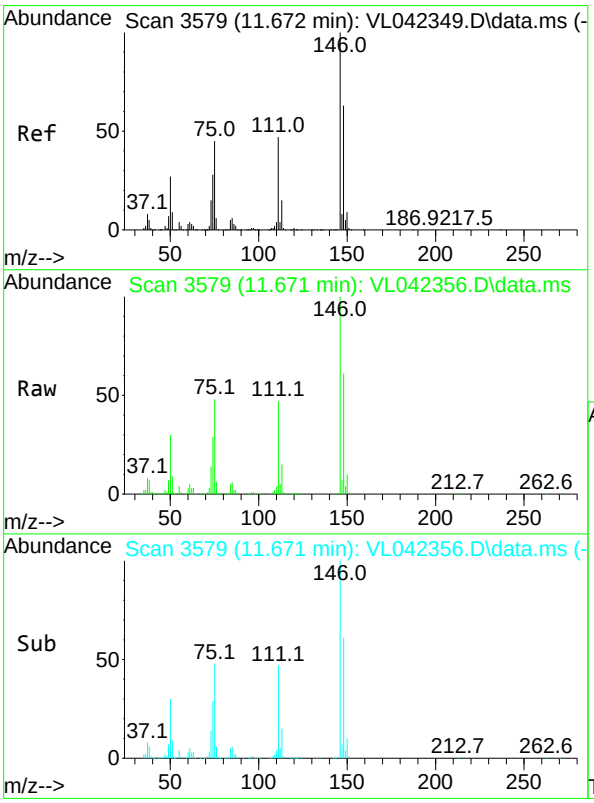
Ion	Ratio	Lower	Upper
146	100		
111	49.5	24.3	72.8
148	64.1	31.6	94.8



Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

Manual Integrations
APPROVED

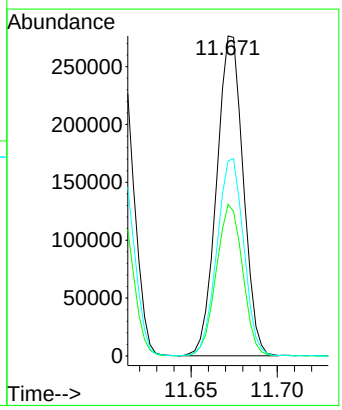
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

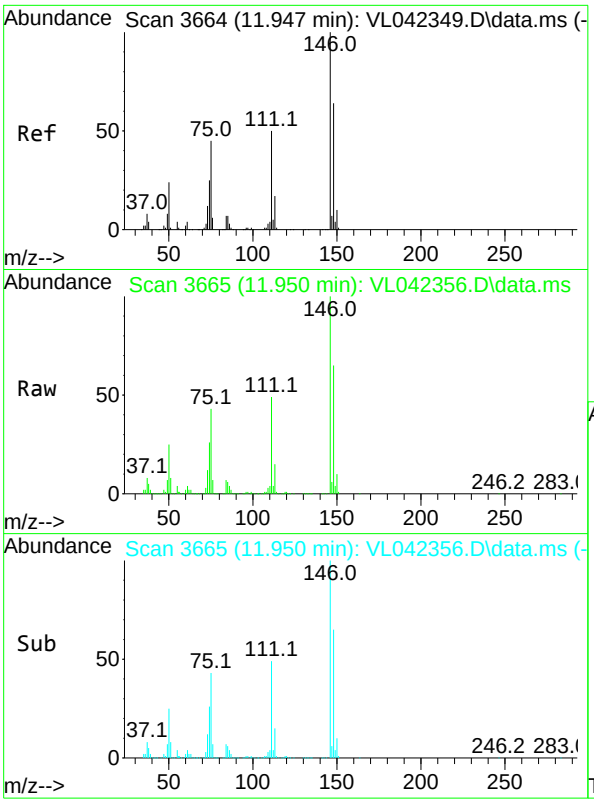


#76
1,4-Dichlorobenzene
Concen: 9.210 ppbv
RT: 11.671 min Scan# 3579
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

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

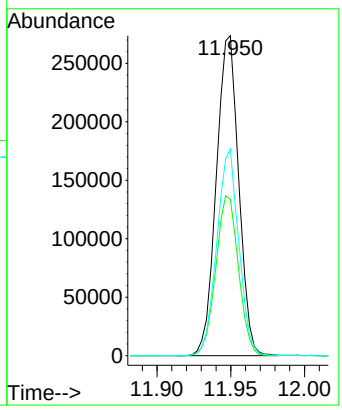




#77
1,2-Dichlorobenzene
Concen: 9.251 ppbv
RT: 11.950 min Scan# 3(
Delta R.T. 0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion:146 Resp: 28928(

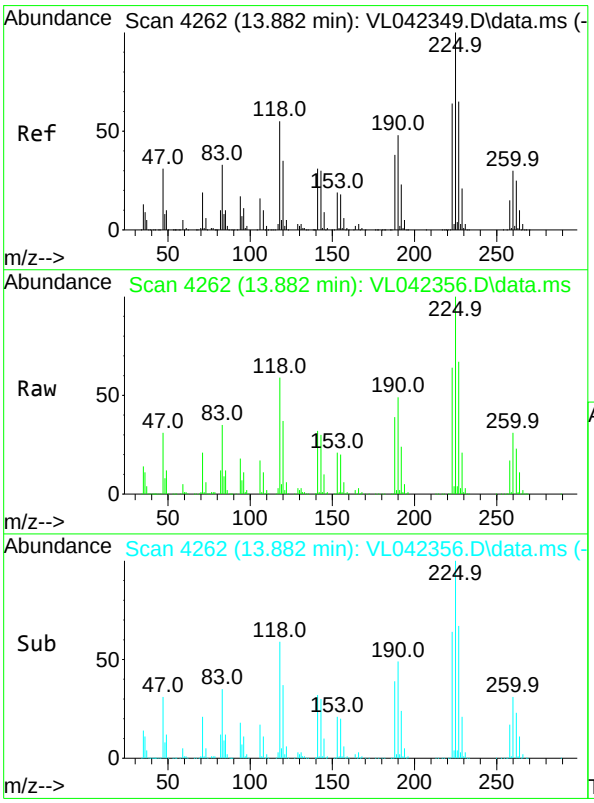
Ion	Ratio	Lower	Upper
146	100		
111	50.8	25.3	75.9
148	63.4	31.5	94.5



Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

Manual Integrations
APPROVED

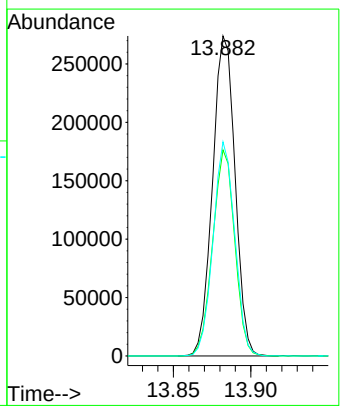
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

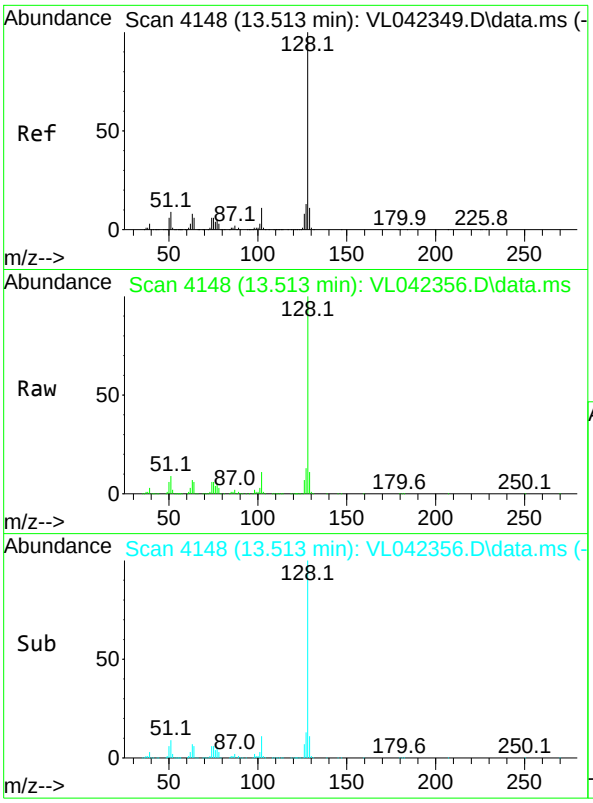


#78
Hexachloro-1,3-Butadiene
Concen: 8.771 ppbv
RT: 13.882 min Scan# 4262
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

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

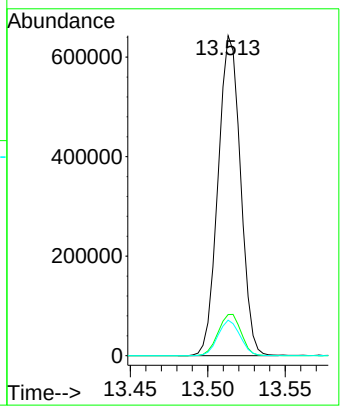




#79
Naphthalene
Concen: 8.750 ppbv
RT: 13.513 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion:128 Resp: 64734

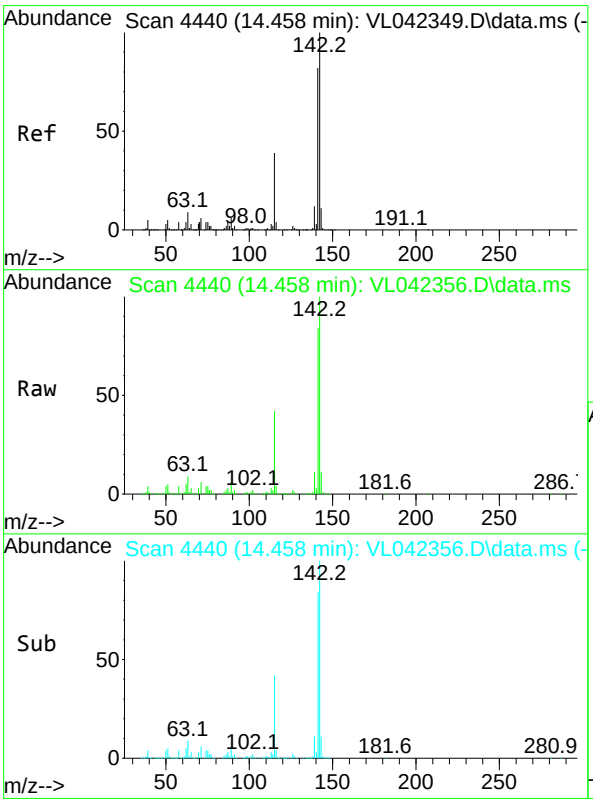
Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.6	15.8
129	11.1	8.6	12.8



Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

Manual Integrations
APPROVED

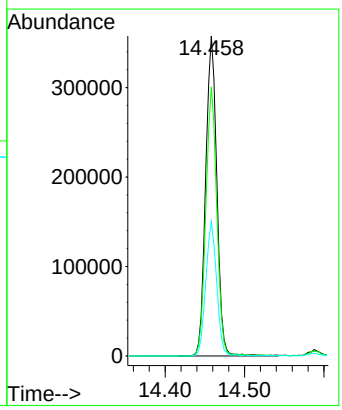
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

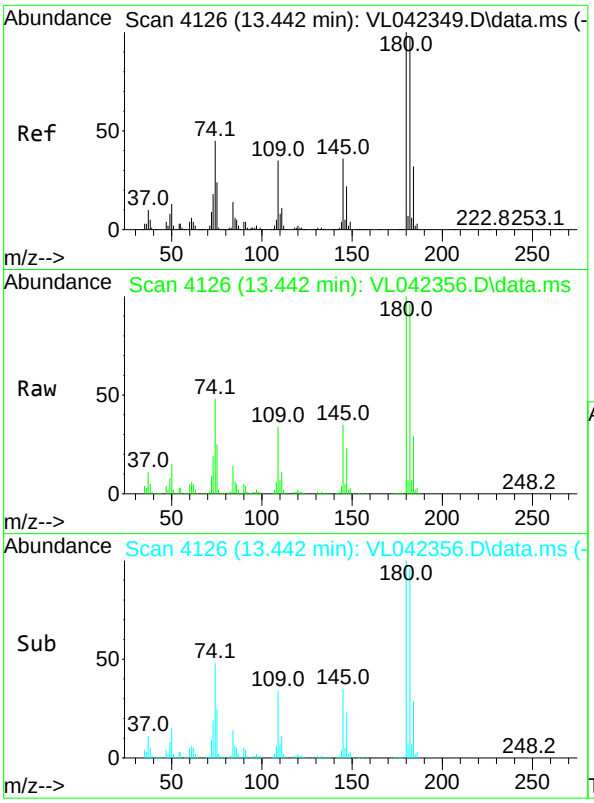


#80
Naphthalene,2-methyl-
Concen: 8.307 ppbv
RT: 14.458 min Scan# 4440
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

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

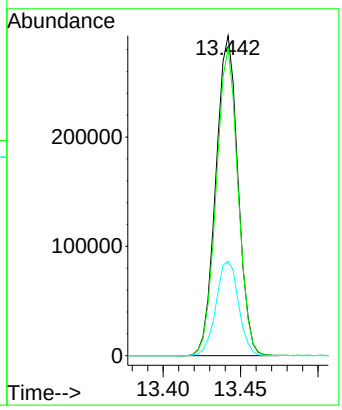




#81
1,2,4-Trichlorobenzene
Concen: 9.136 ppbv
RT: 13.442 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

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

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: WOOD06

Lab Code: CHEM Case No.: Q1726 SAS No.: Q1726 SDG No.: Q1726

Instrument ID: MSVOA_L Calibration Date/Time: 04/18/2025 10:23

Lab File ID: VL042383.D Init. Calib. Date(s): 04/17/2025 04/17/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 09:44 12:54

GC Column: RTX-1 ID: 0.32 (mm)

COMPOUND	RRF	RRF010	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	1.767	1.674		-5.26	30
Ethanol	0.122	0.032		-73.77	30
Chloromethane	0.699	0.624		-10.73	30
Vinyl Chloride	0.761	0.609		-19.97	30
Bromomethane	0.327	0.291		-11.01	30
Chloroethane	0.275	0.243		-11.64	30
Tetrahydrofuran	0.461	0.322		-30.15	30
Trichlorofluoromethane	1.680	1.623		-3.39	30
1,1,2-Trichlorotrifluoroethane	1.374	1.258		-8.44	30
Dichlorotetrafluoroethane	1.517	1.422		-6.26	30
Bromoethene	0.518	0.489		-5.6	30
tert-Butyl alcohol	2.029	1.695		-16.46	30
Heptane	2.153	1.559		-27.59	30
Isopropyl Alcohol	0.909	0.746		-17.93	30
1,1-Dichloroethene	0.642	0.585		-8.88	30
Acetone	1.637	1.266		-22.66	30
Carbon Disulfide	1.749	1.542		-11.84	30
Methyl tert-Butyl Ether	1.070	0.901		-15.79	30
Methylene Chloride	0.641	0.484		-24.49	30
trans-1,2-Dichloroethene	0.731	0.653		-10.67	30
1,1-Dichloroethane	1.388	1.276		-8.07	30
Cyclohexane	1.320	1.145		-13.26	30
2-Butanone	0.791	0.583		-26.3	30
Carbon Tetrachloride	0.905	0.787		-13.04	30
cis-1,2-Dichloroethene	1.553	1.398		-9.98	30
Chloroform	2.309	2.183		-5.46	30
1,1,1-Trichloroethane	2.599	2.364		-9.04	30
2,2,4-Trimethylpentane	1.863	1.374		-26.25	30
Benzene	1.079	0.846		-21.59	30
1,2-Dichloroethane	0.647	0.559		-13.6	30
Trichloroethene	0.471	0.375		-20.38	30
1,2-Dichloropropane	0.402	0.300		-25.37	30
Bromodichloromethane	0.901	0.778		-13.65	30
4-Methyl-2-Pentanone	1.314	0.854		-35.01	30
Toluene	1.294	1.021		-21.1	30
t-1,3-Dichloropropene	0.497	0.385		-22.53	30
cis-1,3-Dichloropropene	0.608	0.470		-22.7	30
1,1,2-Trichloroethane	0.410	0.336		-18.05	30

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: WOOD06

Lab Code: CHEM Case No.: Q1726 SAS No.: Q1726 SDG No.: Q1726

Instrument ID: MSVOA_L Calibration Date/Time: 04/18/2025 10:23

Lab File ID: VL042383.D Init. Calib. Date(s): 04/17/2025 04/17/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 09:44 12:54

GC Column: RTX-1 ID: 0.32 (mm)

COMPOUND	RRF	RRF010	MIN RRF	%D	MAX%D
Dibromochloromethane	0.723	0.646		-10.65	30
1,2-Dibromoethane	0.586	0.489		-16.55	30
Tetrachloroethene	0.417	0.323		-22.54	30
Chlorobenzene	1.040	0.896		-13.85	30
Ethyl Benzene	1.981	1.636		-17.42	30
m/p-Xylene	1.596	1.335		-16.35	30
o-Xylene	1.607	1.332		-17.11	30
Styrene	0.767	0.633		-17.47	30
Bromoform	0.633	0.575		-9.16	30
1,1,2,2-Tetrachloroethane	1.042	0.783		-24.86	30
2-Chlorotoluene	1.851	1.537		-16.96	30
1,3,5-Trimethylbenzene	1.735	1.426		-17.81	30
1,2,4-Trimethylbenzene	2.026	1.579		-22.06	30
1,3-Dichlorobenzene	1.053	0.910		-13.58	30
1,4-Dichlorobenzene	1.059	0.897		-15.3	30
1,2-Dichlorobenzene	1.024	0.896		-12.5	30
1,2,4-Trichlorobenzene	1.040	0.909		-12.6	30
Hexachloro-1,3-Butadiene	1.034	0.937		-9.38	30
1,3-Butadiene	0.783	0.622		-20.56	30
Naphthalene	2.423	1.910		-21.17	30
4-Ethyltoluene	1.965	1.622		-17.45	30
1-Bromo-4-Fluorobenzene	0.822	0.815		-0.85	30
Hexane	1.633	1.305		-20.09	30
Allyl Chloride	1.130	0.934		-17.34	30
1,4-Dioxane	220.893	153.777		-30.38	30
Methyl Methacrylate	0.486	0.345		-29.01	30

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041825\
Data File : VL042383.D
Acq On : 18 Apr 2025 10:23
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 18 22:55:20 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 :
VSTDCCC010

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.784	49	135964	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.949	114	427541	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	379215	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.370	95	309235	9.924	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 99.200%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.496	85	227548	9.472	ppbv	95
3) Chlorodifluoromethane	1.473	51	195422	8.543	ppbv	96
4) Chloromethane	1.531	50	84884	8.929	ppbv	96
5) Vinyl Chloride	1.576	62	82816	8.003	ppbv	97
6) Bromomethane	1.664	94	39633	8.916	ppbv	90
7) Chloroethane	1.703	64	33067	8.836	ppbv	96
8) Dichlorotetrafluoroethane	1.551	85	193310	9.373	ppbv	98
9) Propene	1.483	41	79602	7.641	ppbv	98
10) Heptane	4.968	43	211969	7.242	ppbv	97
11) Trichlorofluoromethane	1.874	101	220733	9.663	ppbv	94
12) 1,1,2-Trichlorotrifluo...	2.136	101	171052	9.158	ppbv	96
13) Ethanol	1.719	45	4291	2.592	ppbv	96
14) Bromoethene	1.777	108	66481	9.442	ppbv	99
15) Acetone	1.832	43	172096	7.732	ppbv	100
16) 1,3-Butadiene	1.606	39	84576	7.945	ppbv	96
17) tert-Butyl alcohol	2.036	59	230418	8.353	ppbv	100
18) 1,1-Dichloroethene	2.030	96	79587	9.121	ppbv	96
19) Isopropyl Alcohol	1.884	45	101483	8.208	ppbv	93
20) Methylene Chloride	2.059	84	65868	7.556	ppbv	96
21) Allyl Chloride	2.091	41	126980	8.263	ppbv	98
22) trans-1,2-Dichloroethene	2.337	96	88798	8.938	ppbv	98
23) Vinyl Acetate	2.457	43	64135	7.119	ppbv #	98
24) 1,1-Dichloroethane	2.405	63	173462	9.191	ppbv	99
25) Ethyl Acetate	2.832	43	441499	8.045	ppbv	100
26) Hexane	2.819	57	177427	7.989	ppbv	95
27) Carbon Disulfide	2.146	76	209681	8.818	ppbv	98
28) Methyl tert-Butyl Ether	2.437	73	122464	8.416	ppbv	92
29) Chloroform	2.842	83	296747	9.453	ppbv	96
30) Cyclohexane	3.849	84	155716	8.673	ppbv	94
31) cis-1,2-Dichloroethene	2.716	61	190037	9.000	ppbv	98
32) 1,1,1-Trichloroethane	3.363	97	321462	9.097	ppbv	99
34) 2-Butanone	2.554	43	249113	7.367	ppbv	98
35) Carbon Tetrachloride	3.755	117	336452	8.695	ppbv	97
36) Benzene	3.648	78	361650	7.842	ppbv	97
37) 1,2-Dichloroethane	3.214	62	239079	8.638	ppbv	98
38) Trichloroethene	4.541	130	160521	7.964	ppbv	96
39) 1,2-Dichloropropane	4.305	63	128161	7.458	ppbv	95
40) 1,4-Dioxane	4.574	88	65746	6.962	ppbv #	92
41) Tetrahydrofuran	3.049	42	137694	6.984	ppbv	97
42) Bromodichloromethane	4.483	83	332490	8.632	ppbv	99
43) Methyl Methacrylate	4.871	69	147517	7.098	ppbv	99
44) 2,2,4-Trimethylpentane	4.629	57	587274	7.374	ppbv	98
45) t-1,3-Dichloropropene	6.402	75	164658	7.756	ppbv	95

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041825\
Data File : VL042383.D
Acq On : 18 Apr 2025 10:23
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 18 22:55:20 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 :
VSTDCCC010

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46)	cis-1,3-Dichloropropene	5.593	75	200823	7.729	ppbv		92
47)	1,1,2-Trichloroethane	6.571	97	143547	8.199	ppbv		94
48)	Dibromochloromethane	7.380	129	276258	8.931	ppbv		99
49)	Bromoform	9.477	173	245731	9.086	ppbv		98
50)	4-Methyl-2-Pentanone	5.742	43	365292	6.501	ppbv		99
51)	2-Hexanone	7.428	43	296019	5.874	ppbv	#	98
52)	Tetrachloroethene	8.218	164	138295	7.759	ppbv		96
53)	Toluene	6.927	91	436388	7.886	ppbv		99
54)	1,2-Dibromoethane	7.645	107	209152	8.347	ppbv		90
56)	1,1,1,2-Tetrachloroethane	8.917	131	207437	9.038	ppbv		99
57)	Chlorobenzene	8.917	112	339932	8.619	ppbv		95
58)	Ethyl Benzene	9.351	91	620425	8.258	ppbv		99
59)	m/p-Xylene	9.545	91	1012385m	16.726	ppbv		
60)	o-Xylene	9.959	91	505258	8.290	ppbv		100
61)	Styrene	9.865	104	240108	8.253	ppbv		99
62)	Isopropylbenzene	10.535	105	753628	8.422	ppbv		100
63)	1,1,2,2-Tetrachloroethane	9.959	83	297020	7.520	ppbv		98
64)	n-propylbenzene	10.985	120	191951	8.534	ppbv		91
65)	tert-Butylbenzene	11.529	119	688133	8.367	ppbv		93
66)	Benzyl Chloride	11.610	91	60227	6.664	ppbv		96
67)	sec-Butylbenzene	11.762	105	948966	8.295	ppbv		98
69)	p-Isopropyltoluene	11.924	119	826443	8.315	ppbv		100
70)	n-Butylbenzene	12.277	91	832220	8.039	ppbv		99
71)	2-Chlorotoluene	10.898	91	582951	8.306	ppbv		100
72)	4-Ethyltoluene	11.121	105	615202	8.256	ppbv		99
73)	1,3,5-Trimethylbenzene	11.199	105	540783	8.220	ppbv		98
74)	1,2,4-Trimethylbenzene	11.536	105	598825	7.794	ppbv		98
75)	1,3-Dichlorobenzene	11.604	146	345226	8.644	ppbv		99
76)	1,4-Dichlorobenzene	11.668	146	340293	8.477	ppbv		99
77)	1,2-Dichlorobenzene	11.943	146	339821	8.751	ppbv		99
78)	Hexachloro-1,3-Butadiene	13.879	225	355324	9.061	ppbv		99
79)	Naphthalene	13.510	128	724361	7.884	ppbv		99
80)	Naphthalene,2-methyl-	14.455	142	396207	7.566	ppbv		98
81)	1,2,4-Trichlorobenzene	13.439	180	344709	8.737	ppbv		100

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

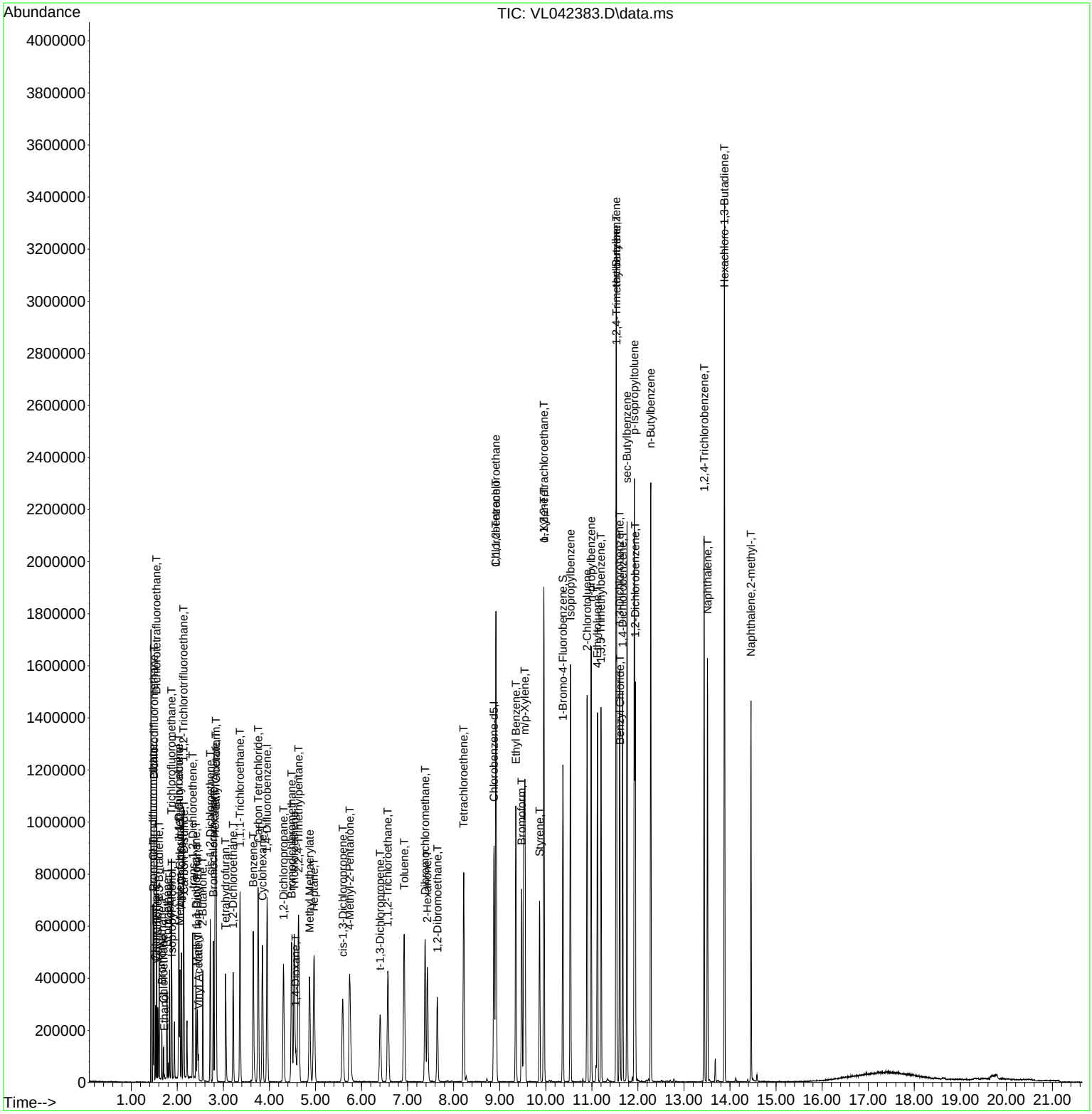
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041825\
Data File : VL042383.D
Acq On : 18 Apr 2025 10:23
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

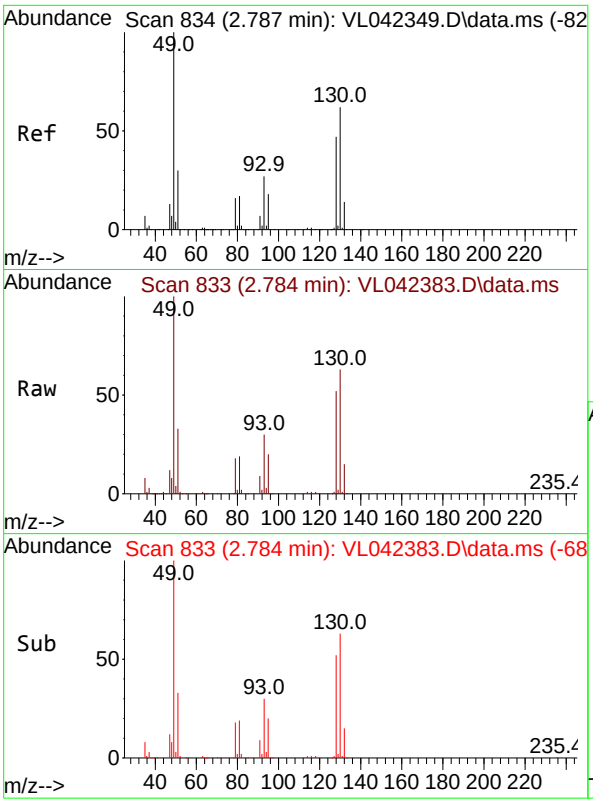
Quant Time: Apr 18 22:55:20 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025

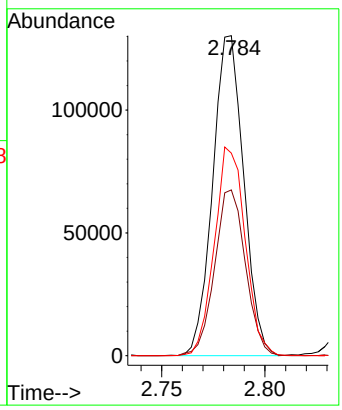




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 8
Delta R.T. -0.003 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Tgt Ion: 49 Resp: 13596

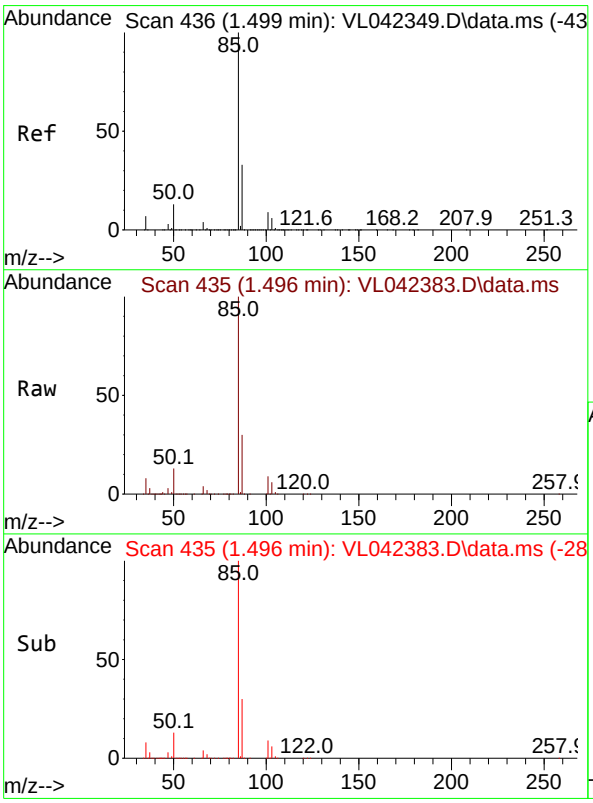
Ion	Ratio	Lower	Upper
49	100		
128	51.7	22.8	68.4
130	64.8	29.3	88.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

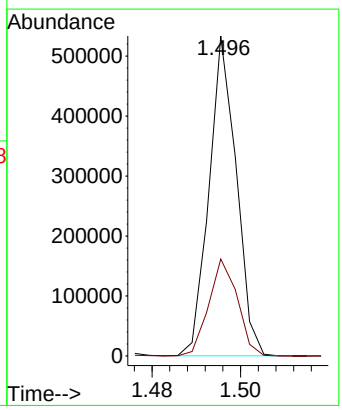
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025

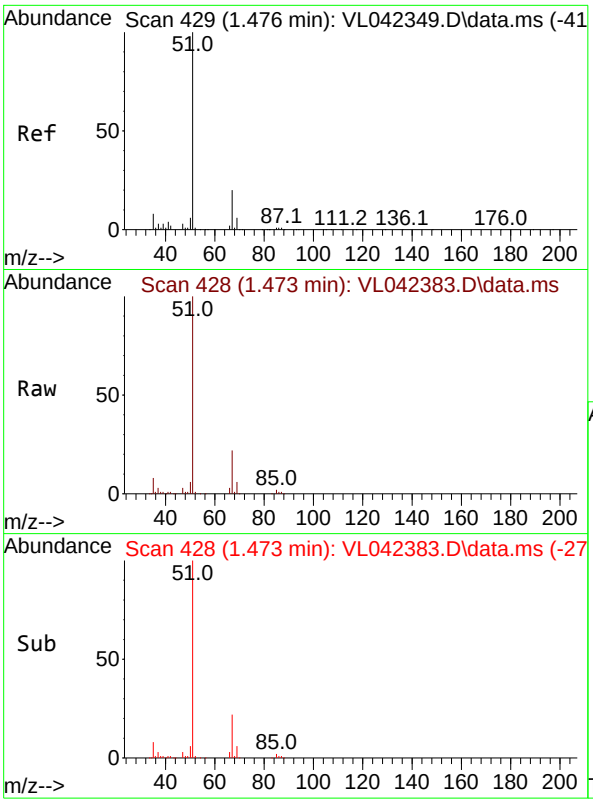


#2
Dichlorodifluoromethane
Concen: 9.472 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.003 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Tgt Ion: 85 Resp: 227548

Ion	Ratio	Lower	Upper
85	100		
87	30.3	26.6	39.8

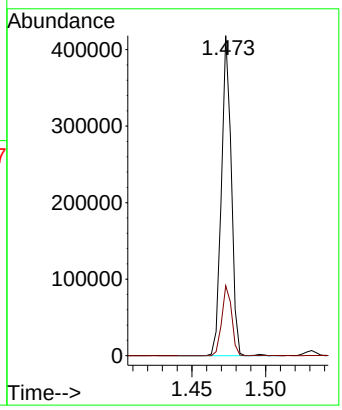




#3
Chlorodifluoromethane
Concen: 8.543 ppbv
RT: 1.473 min Scan# 4
Delta R.T. -0.003 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Tgt Ion: 51 Resp: 19542

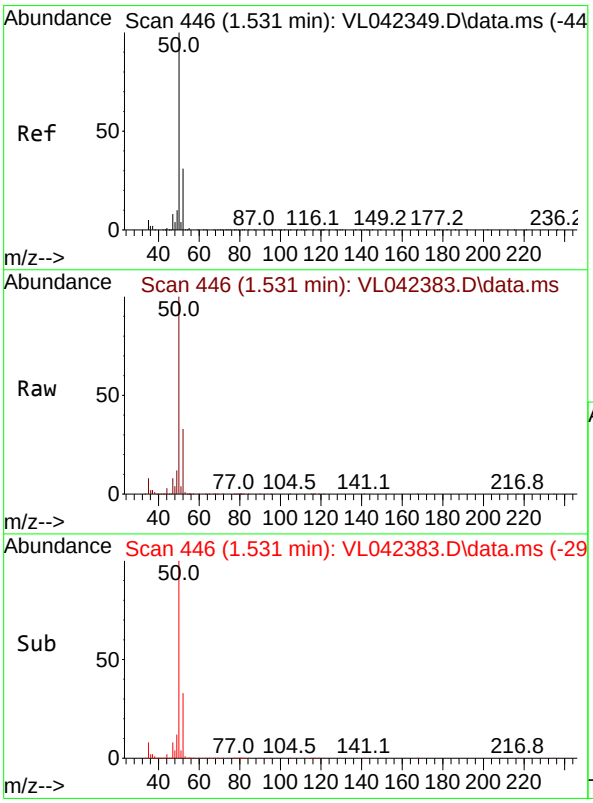
Ion	Ratio	Lower	Upper
51	100		
67	22.1	16.2	24.4



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

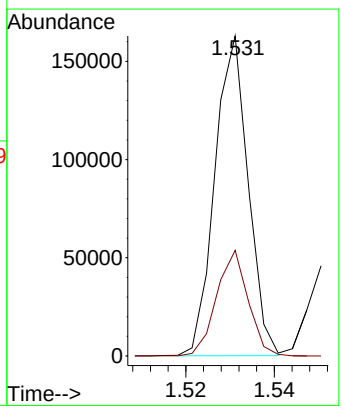
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025

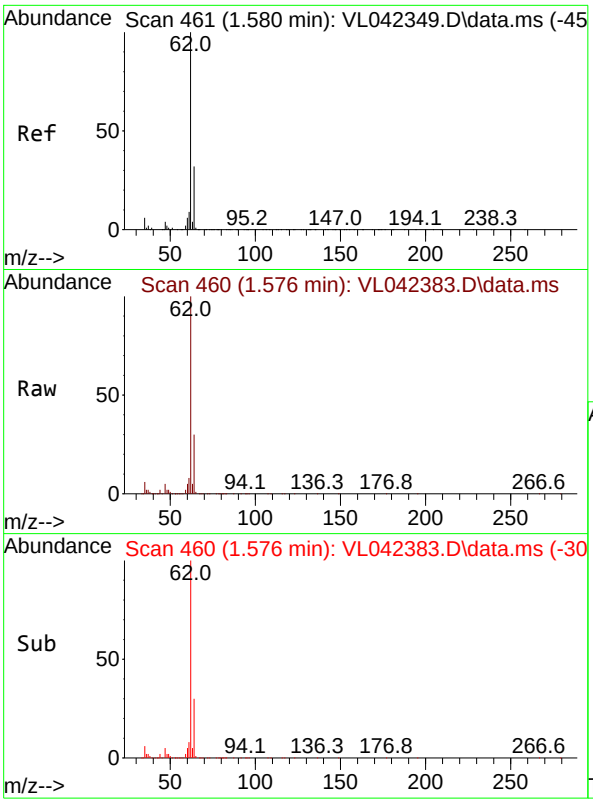


#4
Chloromethane
Concen: 8.929 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Tgt Ion: 50 Resp: 84884

Ion	Ratio	Lower	Upper
50	100		
52	33.0	24.7	37.1

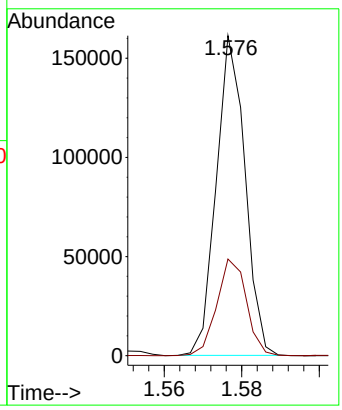




#5
Vinyl Chloride
Concen: 8.003 ppbv
RT: 1.576 min Scan# 4
Delta R.T. -0.003 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Tgt Ion: 62 Resp: 8281

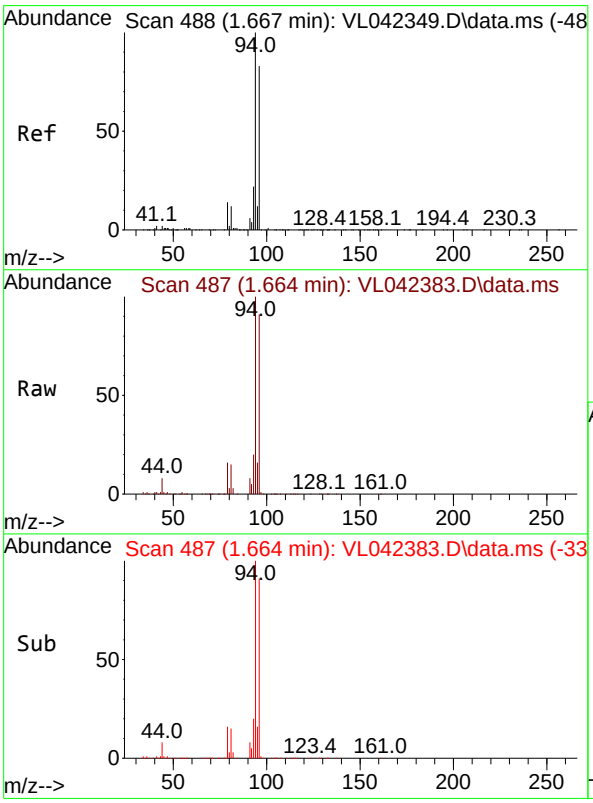
Ion	Ratio	Lower	Upper
62	100		
64	30.2	25.4	38.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

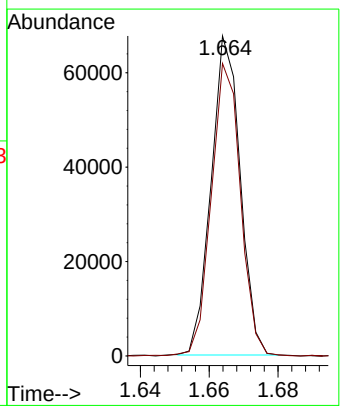
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025

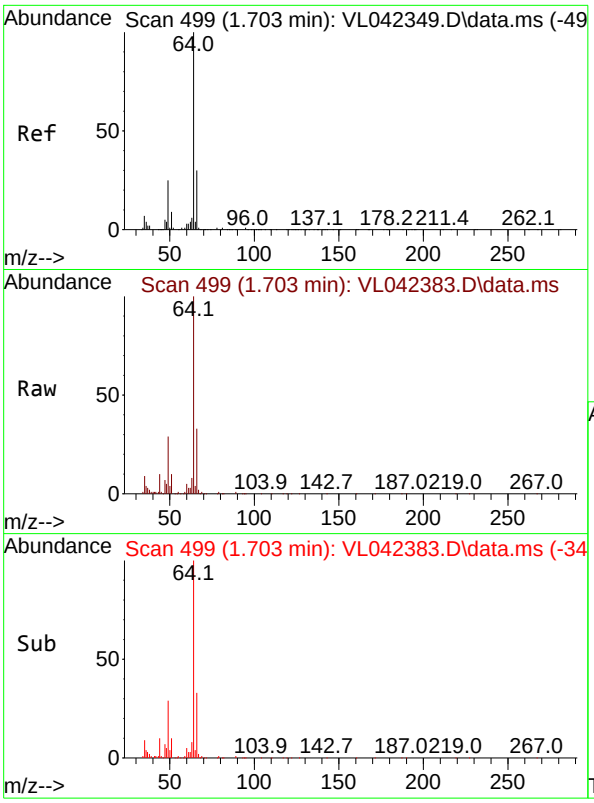


#6
Bromomethane
Concen: 8.916 ppbv
RT: 1.664 min Scan# 487
Delta R.T. -0.003 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Tgt Ion: 94 Resp: 39633

Ion	Ratio	Lower	Upper
94	100		
96	91.3	66.2	99.2

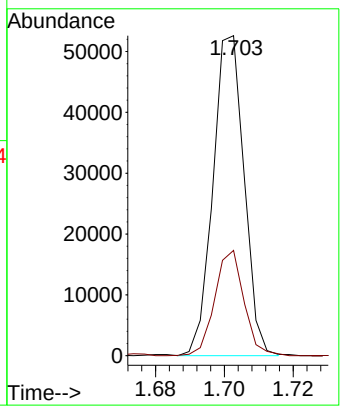




#7
Chloroethane
Concen: 8.836 ppbv
RT: 1.703 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Tgt Ion: 64 Resp: 3306

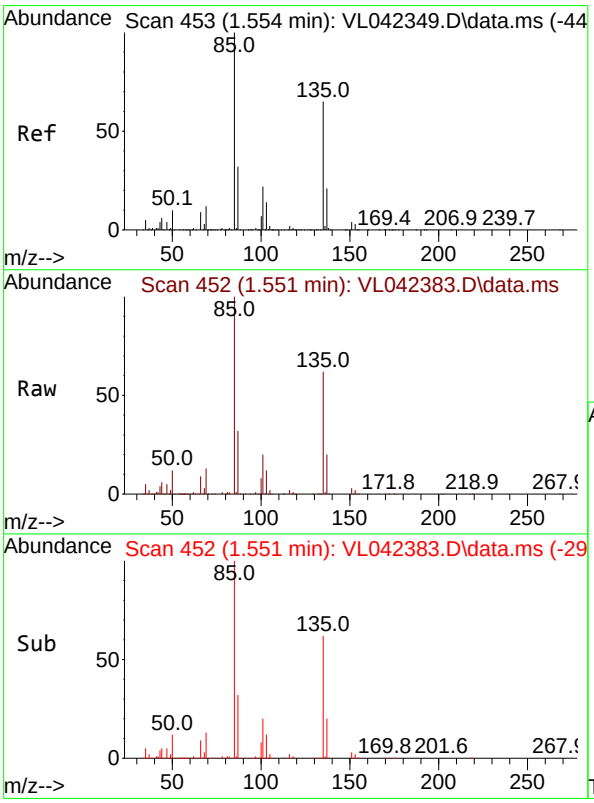
Ion	Ratio	Lower	Upper
64	100		
66	32.9	24.6	37.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

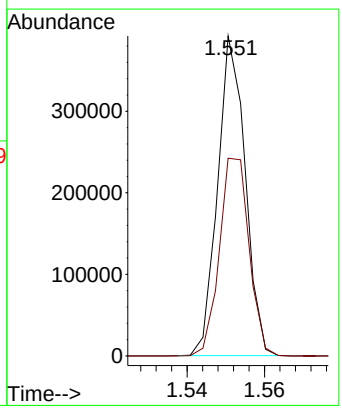
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025

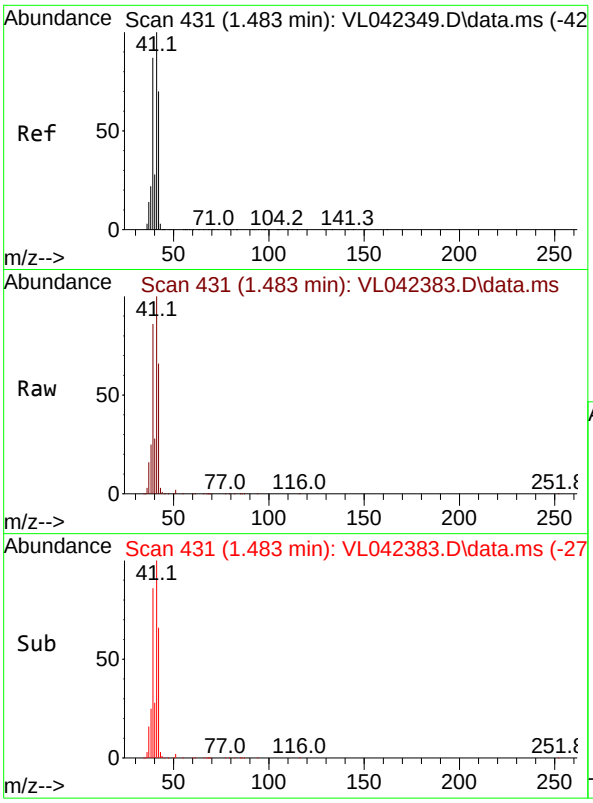


#8
Dichlorotetrafluoroethane
Concen: 9.373 ppbv
RT: 1.551 min Scan# 452
Delta R.T. -0.003 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Tgt Ion: 85 Resp: 193310

Ion	Ratio	Lower	Upper
85	100		
135	67.2	52.2	78.2

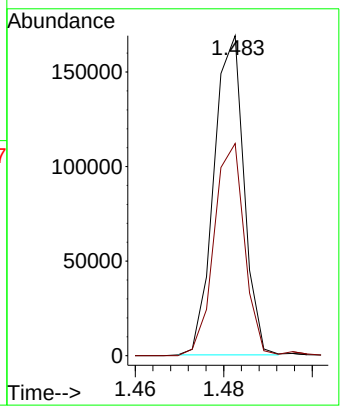




#9
Propene
Concen: 7.641 ppbv
RT: 1.483 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Tgt Ion: 41 Resp: 7960

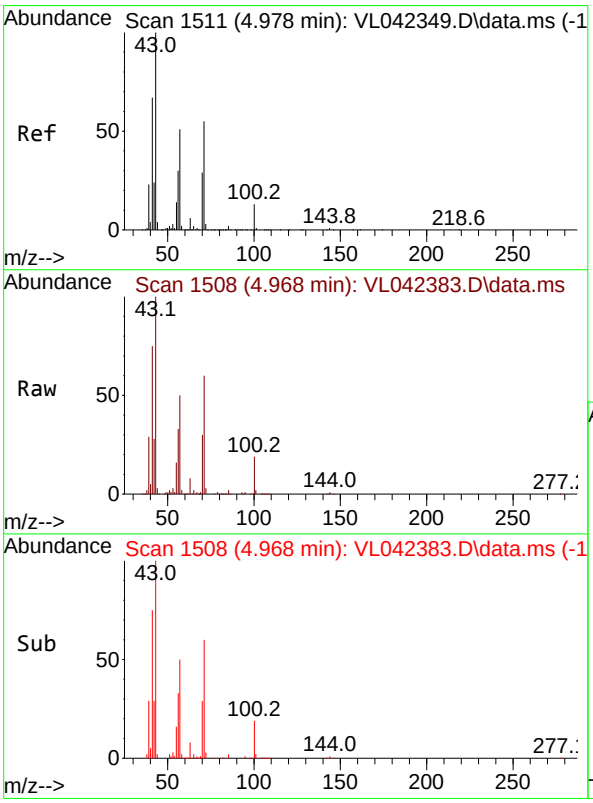
Ion	Ratio	Lower	Upper
41	100		
42	68.6	56.2	84.4



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

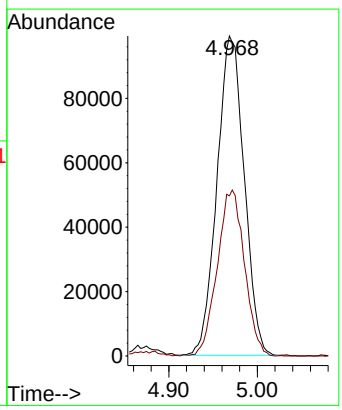
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025

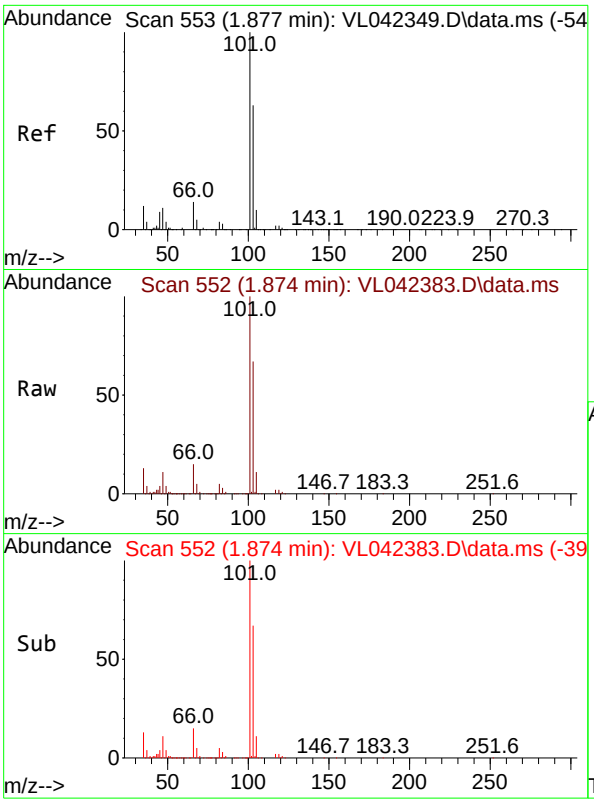


#10
Heptane
Concen: 7.242 ppbv
RT: 4.968 min Scan# 1508
Delta R.T. -0.010 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Tgt Ion: 43 Resp: 211969

Ion	Ratio	Lower	Upper
43	100		
57	52.0	39.9	59.9





#11
Trichlorofluoromethane
Concen: 9.663 ppbv
RT: 1.874 min Scan# 5
Delta R.T. -0.003 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

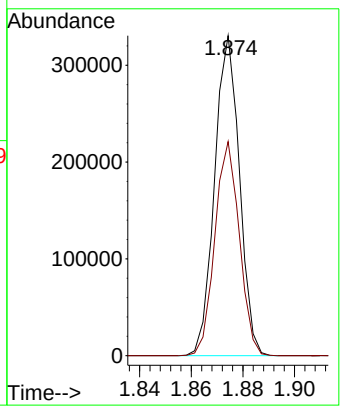
Tgt Ion:101 Resp: 22073

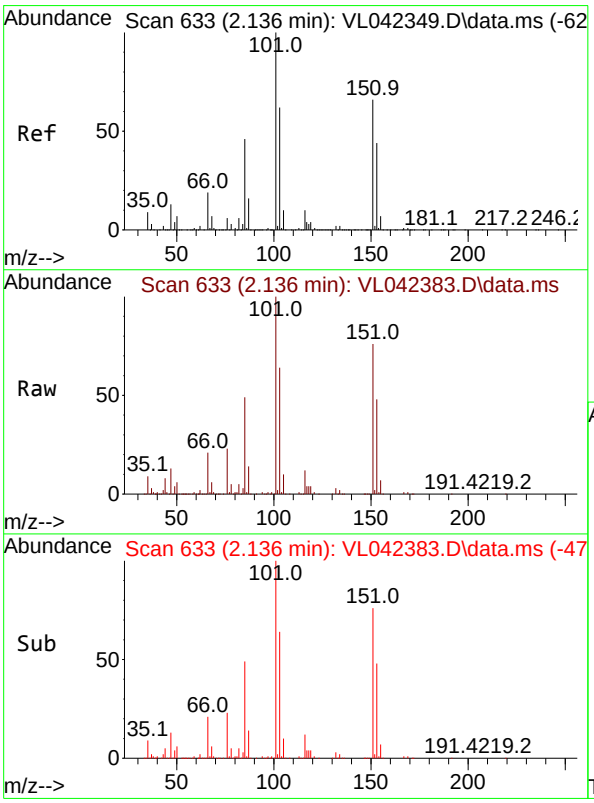
Ion	Ratio	Lower	Upper
101	100		
103	66.9	50.1	75.1

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025

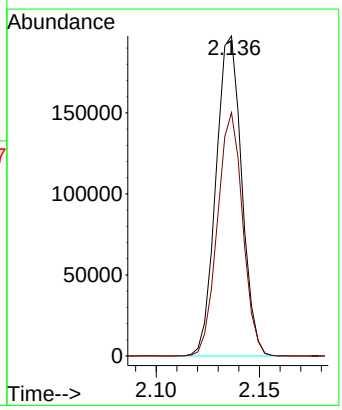


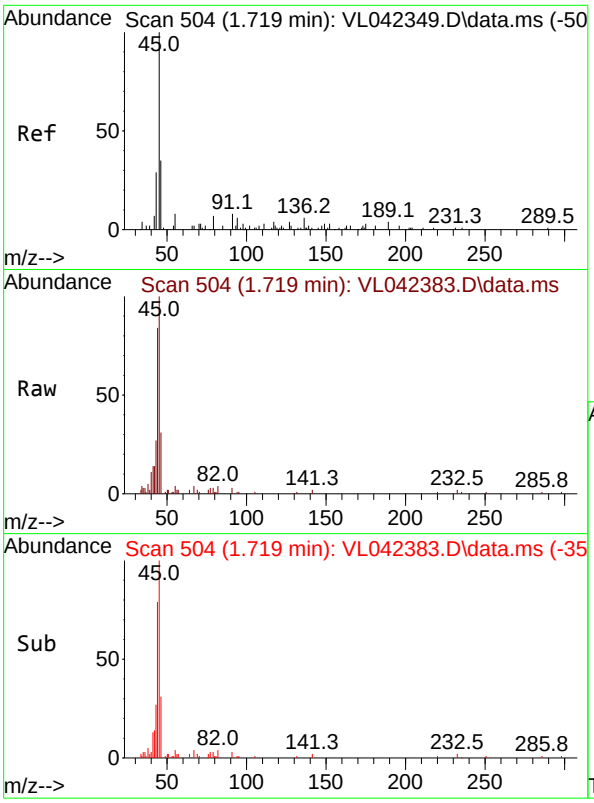


#12
1,1,2-Trichlorotrifluoroethane
Concen: 9.158 ppbv
RT: 2.136 min Scan# 633
Delta R.T. 0.000 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Tgt Ion:101 Resp: 171052

Ion	Ratio	Lower	Upper
101	100		
151	74.6	57.0	85.6

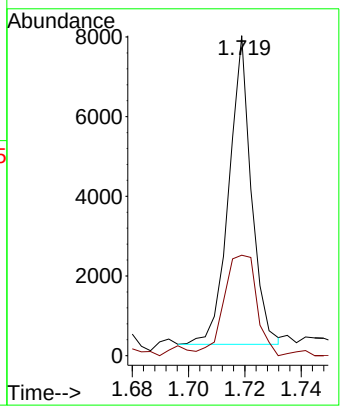




#13
Ethanol
Concen: 2.592 ppbv
RT: 1.719 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Tgt Ion: 45 Resp: 429

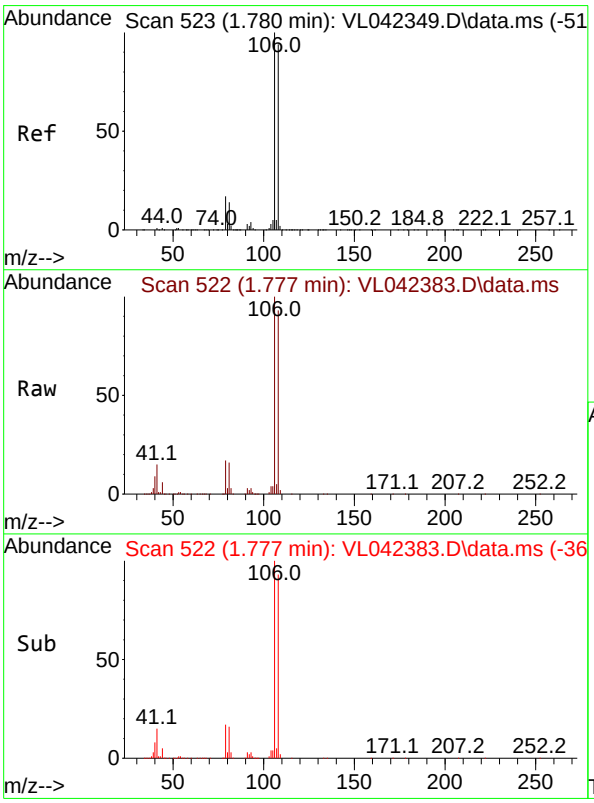
Ion	Ratio	Lower	Upper
45	100		
46	51.9	21.9	87.7



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations APPROVED

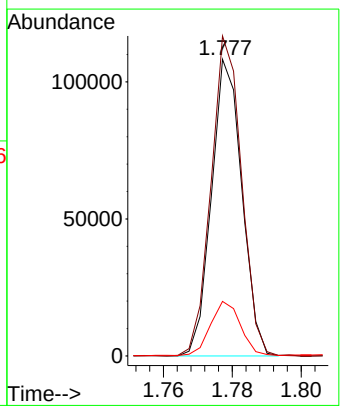
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025

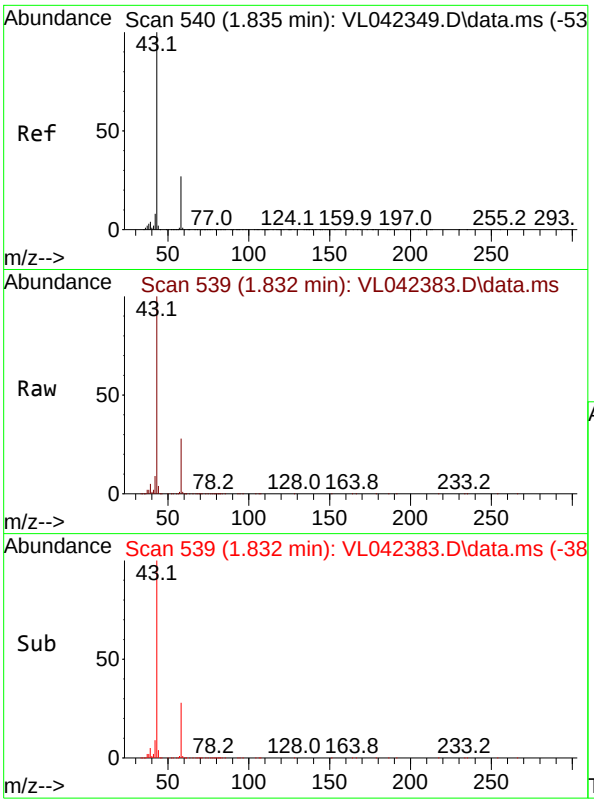


#14
Bromoethene
Concen: 9.442 ppbv
RT: 1.777 min Scan# 522
Delta R.T. -0.003 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Tgt Ion:108 Resp: 66481

Ion	Ratio	Lower	Upper
108	100		
106	108.2	85.9	128.9
79	19.6	13.9	20.9

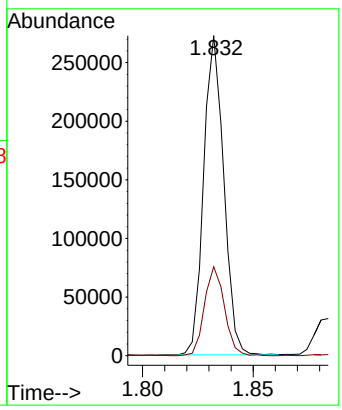




#15
Acetone
Concen: 7.732 ppbv
RT: 1.832 min Scan# 5
Delta R.T. -0.003 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Tgt Ion: 43 Resp: 17209

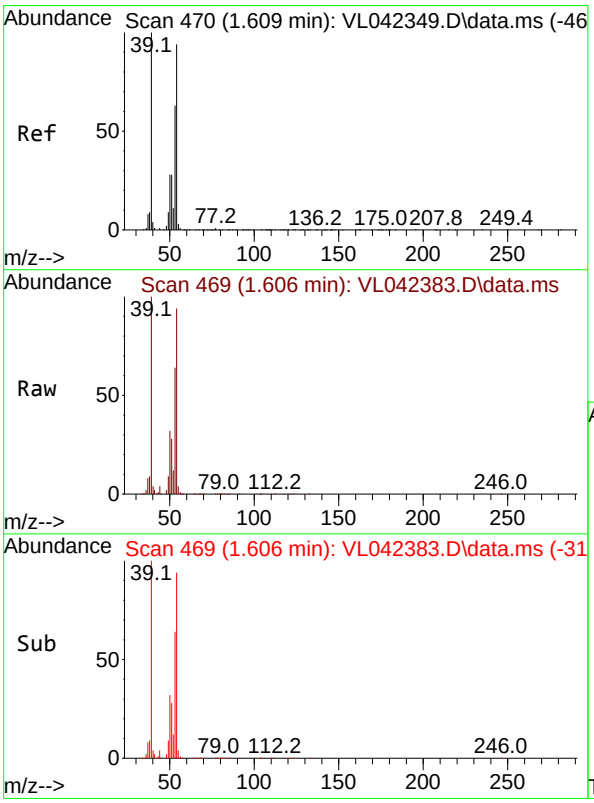
Ion	Ratio	Lower	Upper
43	100		
58	28.0	22.4	33.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

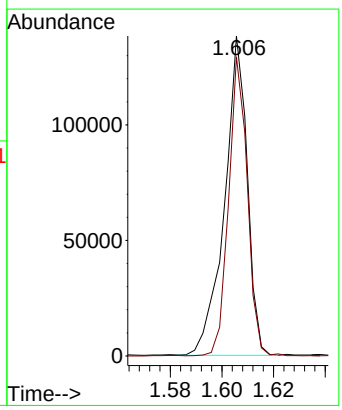
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025

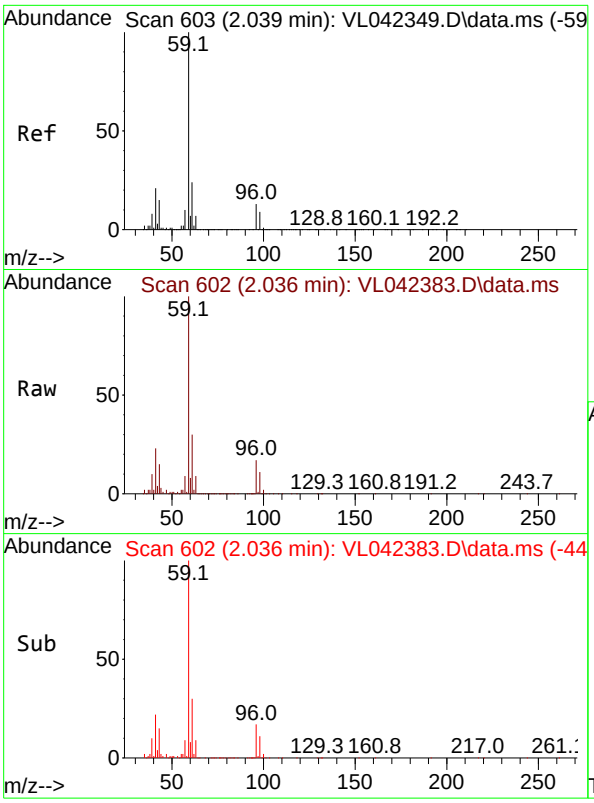


#16
1,3-Butadiene
Concen: 7.945 ppbv
RT: 1.606 min Scan# 469
Delta R.T. -0.003 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Tgt Ion: 39 Resp: 84576

Ion	Ratio	Lower	Upper
39	100		
54	77.5	64.9	97.3

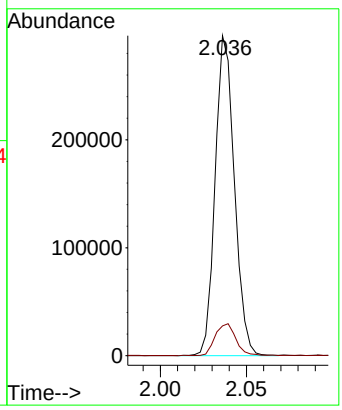




#17
tert-Butyl alcohol
Concen: 8.353 ppbv
RT: 2.036 min Scan# 6
Delta R.T. -0.003 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Tgt Ion: 59 Resp: 23041

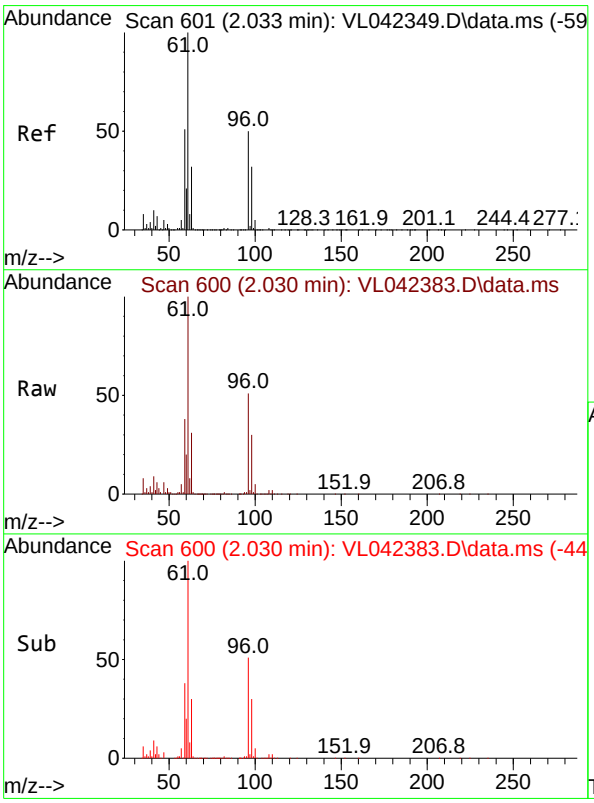
Ion	Ratio	Lower	Upper
59	100		
57	11.0	8.7	13.1



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

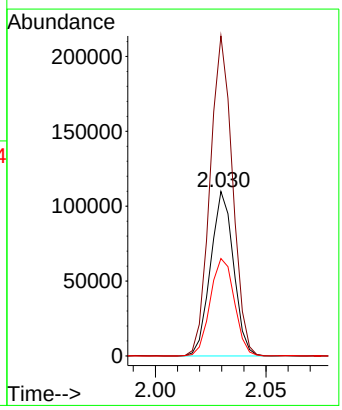
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025

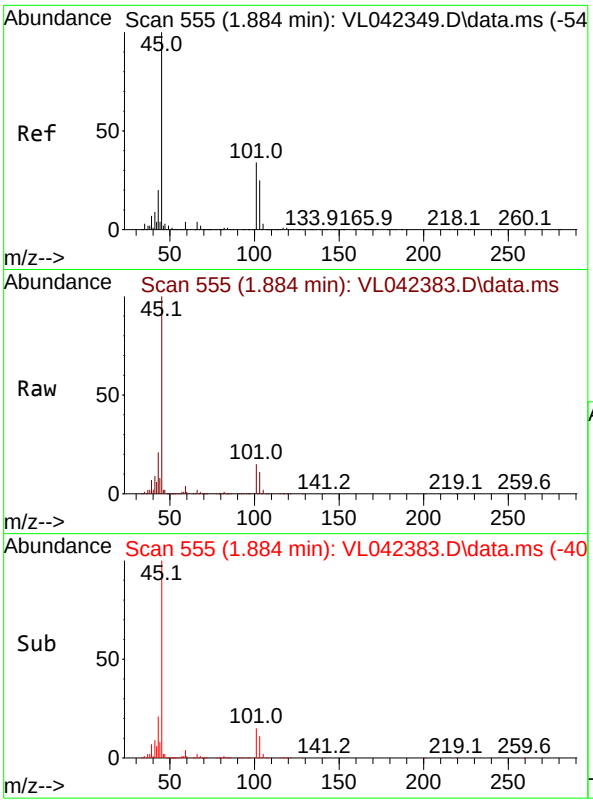


#18
1,1-Dichloroethene
Concen: 9.121 ppbv
RT: 2.030 min Scan# 600
Delta R.T. -0.003 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Tgt Ion: 96 Resp: 79587

Ion	Ratio	Lower	Upper
96	100		
61	194.6	160.2	240.2
98	59.2	51.0	76.4

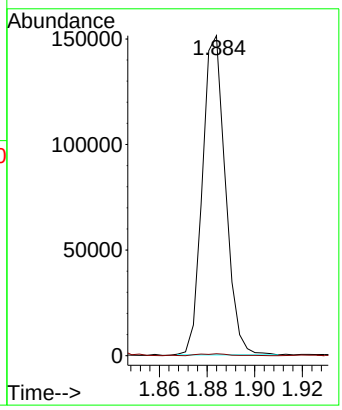




#19
Isopropyl Alcohol
Concen: 8.208 ppbv
RT: 1.884 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Tgt Ion: 45 Resp: 10148

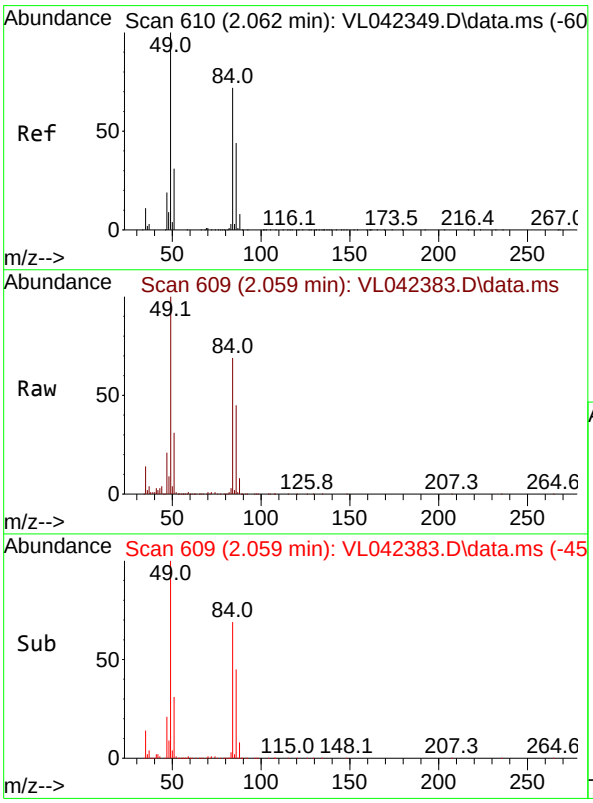
Ion	Ratio	Lower	Upper
45	100		
58	47.5	34.5	51.7



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

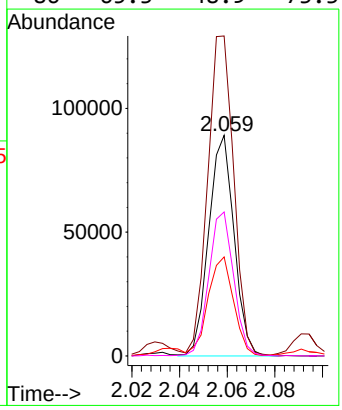
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025

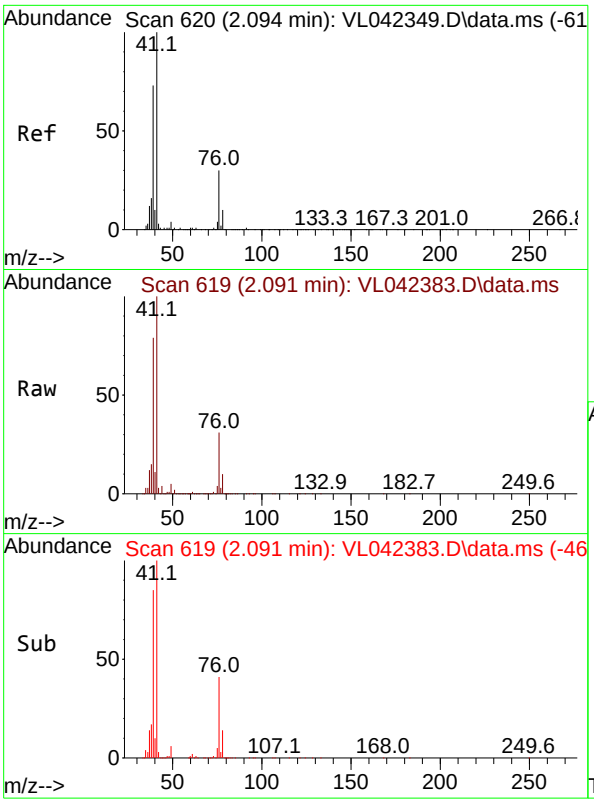


#20
Methylene Chloride
Concen: 7.556 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.003 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Tgt Ion: 84 Resp: 65868

Ion	Ratio	Lower	Upper
84	100		
49	143.9	111.6	167.4
51	44.2	35.1	52.7
86	65.3	48.9	73.3

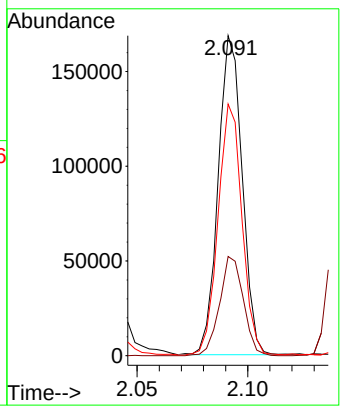




#21
Allyl Chloride
Concen: 8.263 ppbv
RT: 2.091 min Scan# 6
Delta R.T. -0.003 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Tgt Ion: 41 Resp: 12698

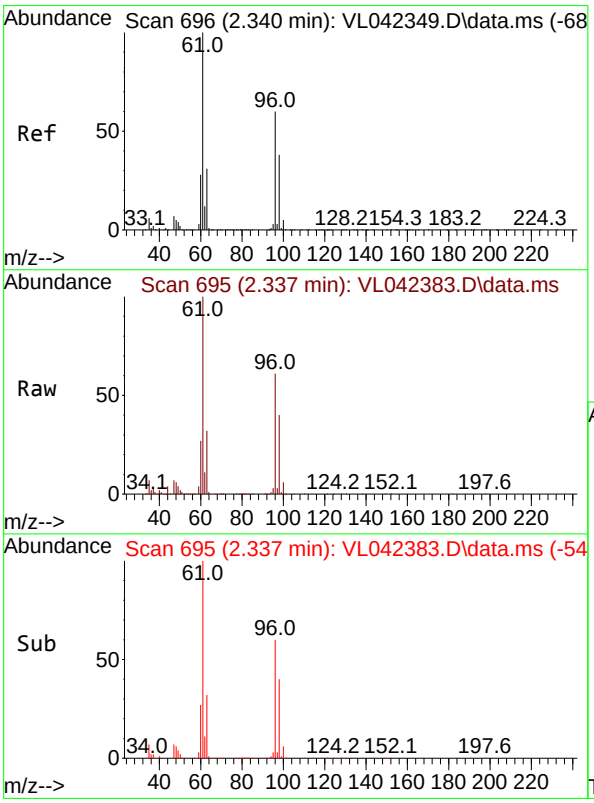
Ion	Ratio	Lower	Upper
41	100		
76	30.8	24.8	37.2
39	78.2	60.6	90.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

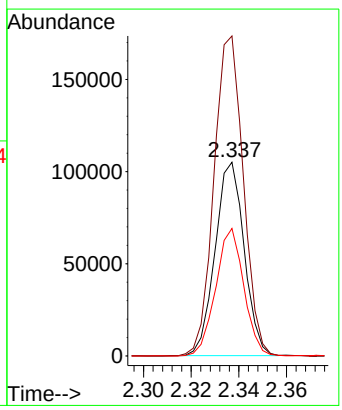
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025

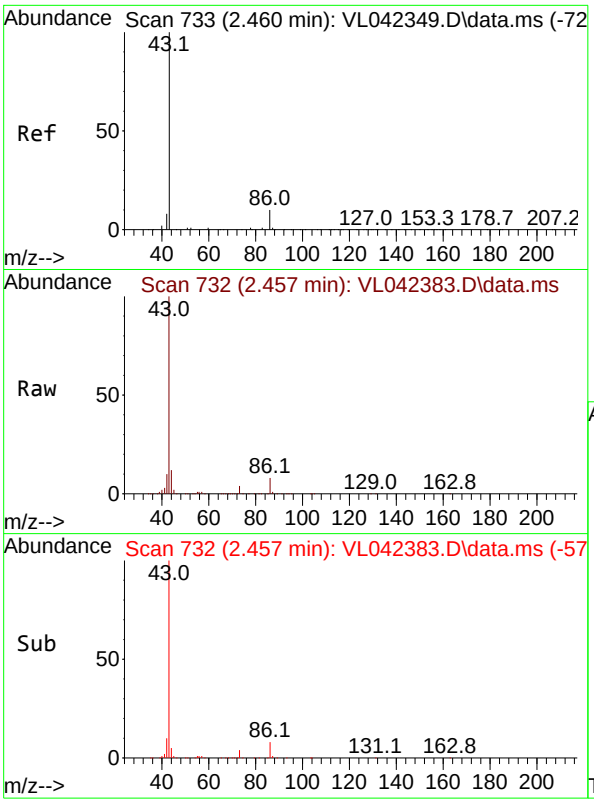


#22
trans-1,2-Dichloroethene
Concen: 8.938 ppbv
RT: 2.337 min Scan# 695
Delta R.T. -0.003 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Tgt Ion: 96 Resp: 88798

Ion	Ratio	Lower	Upper
96	100		
61	165.4	133.7	200.5
98	65.9	50.3	75.5





#23
Vinyl Acetate
Concen: 7.119 ppbv
RT: 2.457 min Scan# 7
Delta R.T. -0.003 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

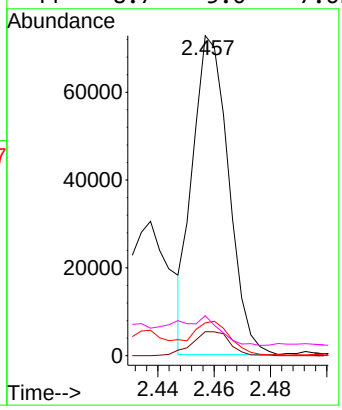
Tgt Ion: 43 Resp: 6413

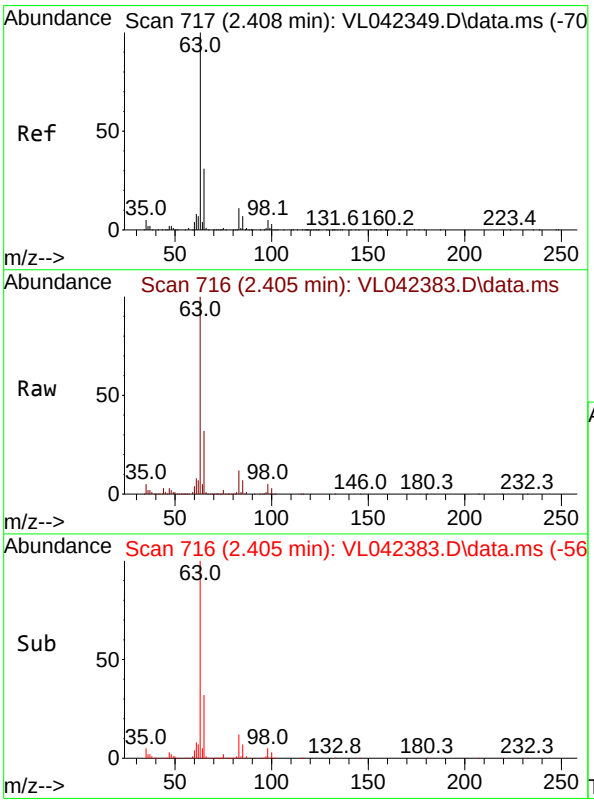
Ion	Ratio	Lower	Upper
43	100		
86	7.5	6.5	9.7
42	9.8	7.8	11.8
44	8.7	5.0	7.6#

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025

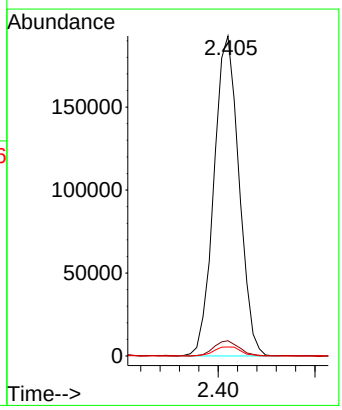


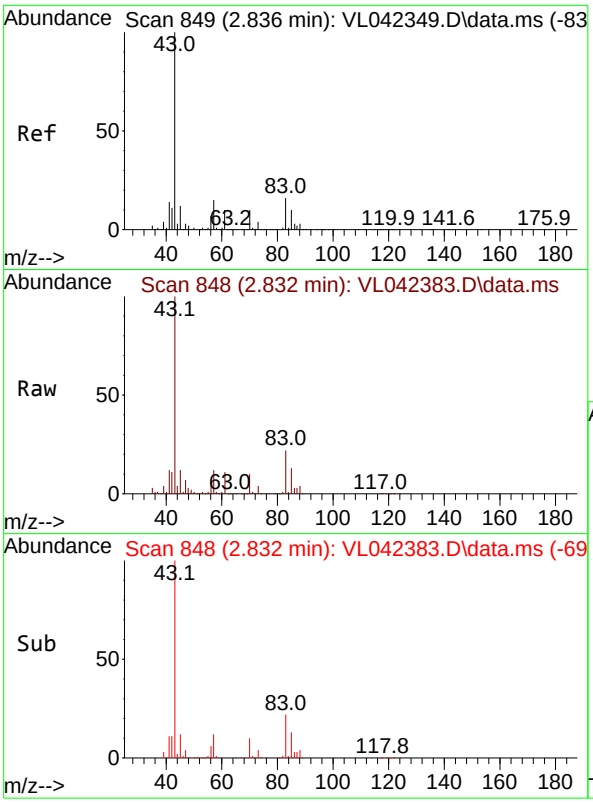


#24
1,1-Dichloroethane
Concen: 9.191 ppbv
RT: 2.405 min Scan# 716
Delta R.T. -0.003 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Tgt Ion: 63 Resp: 173462

Ion	Ratio	Lower	Upper
63	100		
98	4.7	2.3	6.8
100	2.8	1.6	4.8

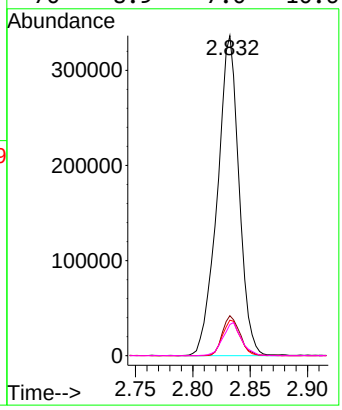




#25
Ethyl Acetate
Concen: 8.045 ppbv
RT: 2.832 min Scan# 84
Delta R.T. -0.003 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Tgt Ion: 43 Resp: 441499

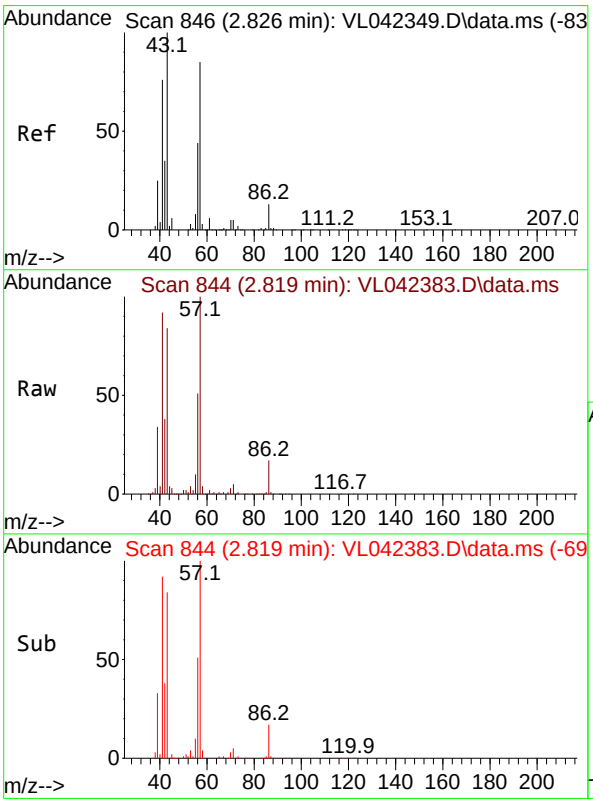
Ion	Ratio	Lower	Upper
43	100		
45	10.2	8.3	12.5
61	9.0	7.3	10.9
70	8.9	7.0	10.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

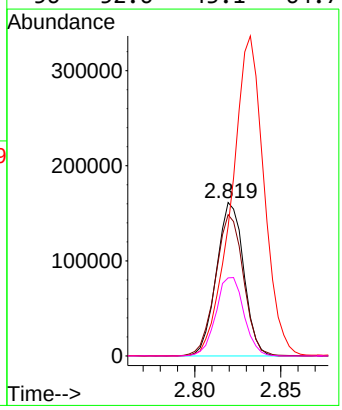
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025

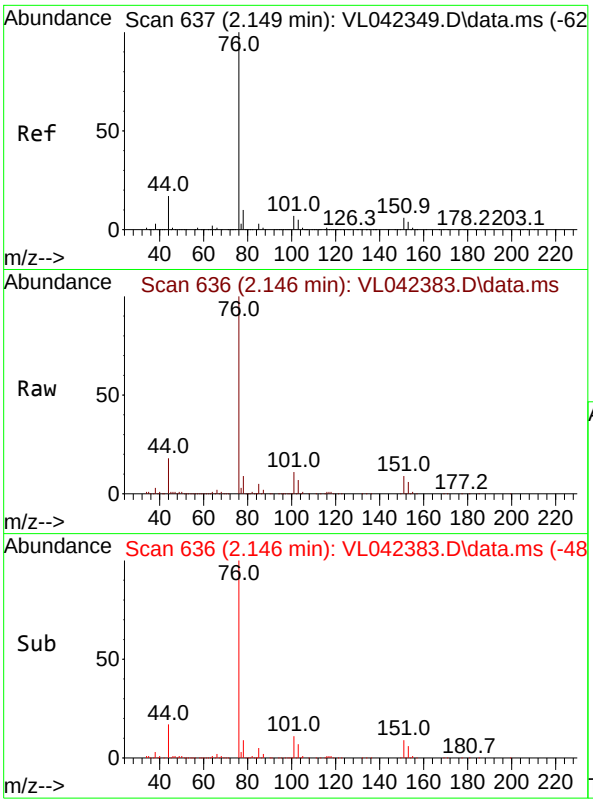


#26
Hexane
Concen: 7.989 ppbv
RT: 2.819 min Scan# 844
Delta R.T. -0.006 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Tgt Ion: 57 Resp: 177427

Ion	Ratio	Lower	Upper
57	100		
41	95.1	77.9	116.9
43	249.3	208.4	312.6
56	52.6	43.1	64.7

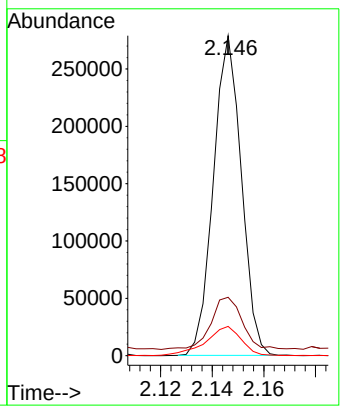




#27
Carbon Disulfide
Concen: 8.818 ppbv
RT: 2.146 min Scan# 6
Delta R.T. -0.003 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Tgt Ion: 76 Resp: 20968

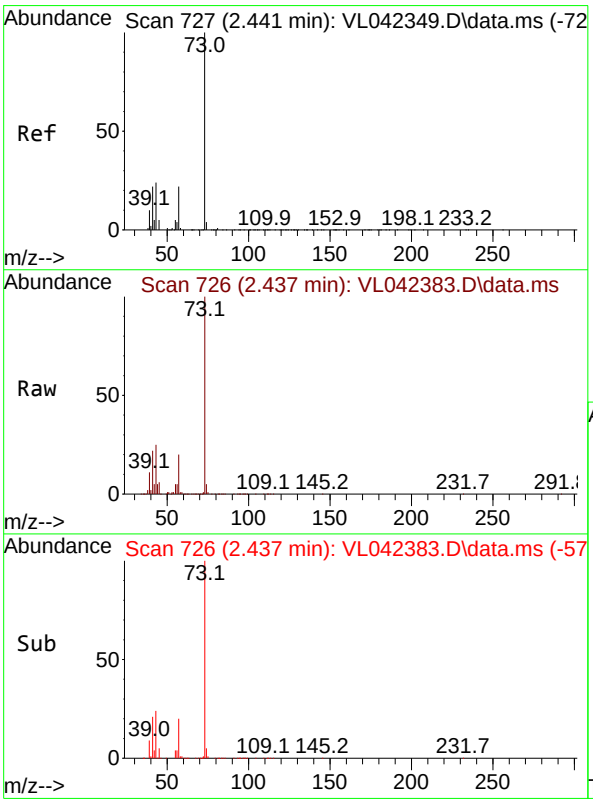
Ion	Ratio	Lower	Upper
76	100		
44	17.8	15.5	23.3
78	11.8	9.3	13.9



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

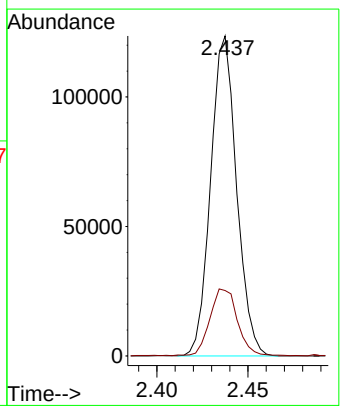
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025

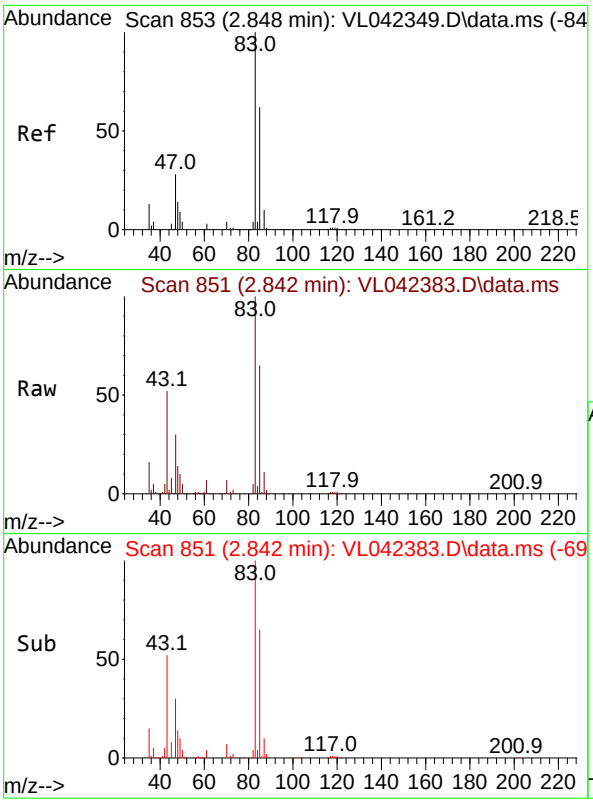


#28
Methyl tert-Butyl Ether
Concen: 8.416 ppbv
RT: 2.437 min Scan# 726
Delta R.T. -0.003 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Tgt Ion: 73 Resp: 122464

Ion	Ratio	Lower	Upper
73	100		
57	22.3	21.3	31.9





#29
Chloroform
Concen: 9.453 ppbv
RT: 2.842 min Scan# 8
Delta R.T. -0.006 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

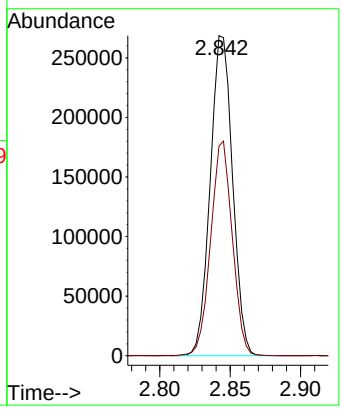
Tgt Ion: 83 Resp: 29674

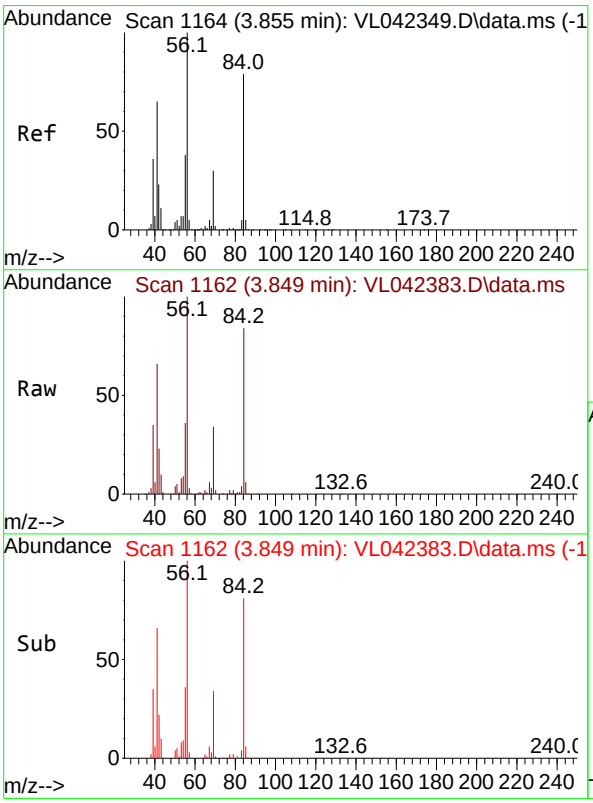
Ion	Ratio	Lower	Upper
83	100		
85	65.5	50.0	75.0

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025

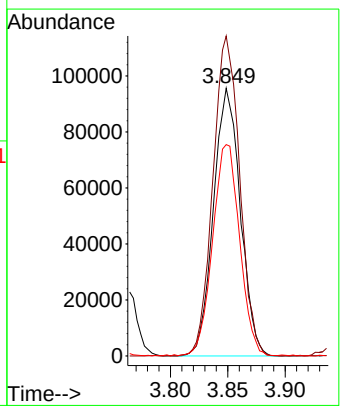


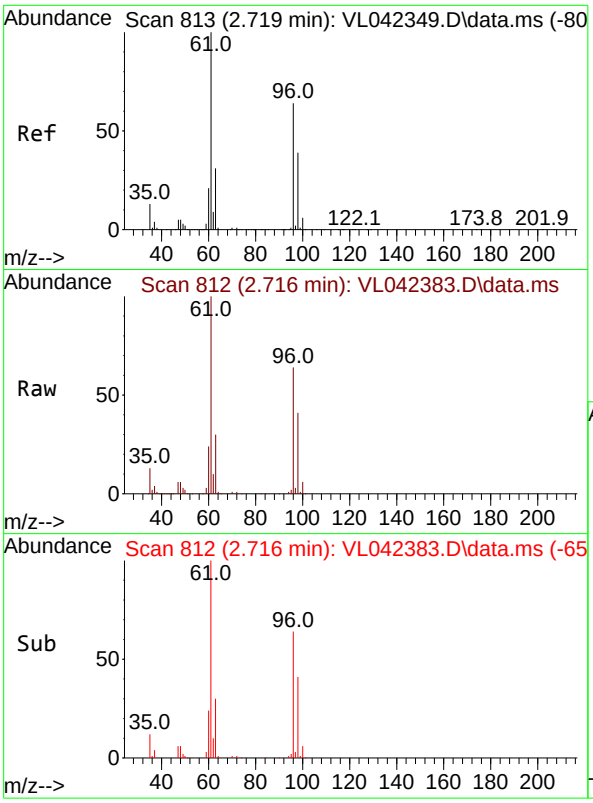


#30
Cyclohexane
Concen: 8.673 ppbv
RT: 3.849 min Scan# 1162
Delta R.T. -0.006 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Tgt Ion: 84 Resp: 155716

Ion	Ratio	Lower	Upper
84	100		
56	118.9	101.0	151.4
41	79.9	67.4	101.0

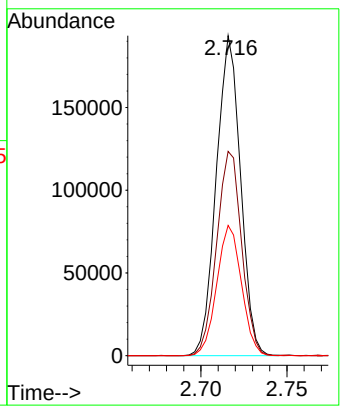




#31
cis-1,2-Dichloroethene
Concen: 9.000 ppbv
RT: 2.716 min Scan# 8
Delta R.T. -0.003 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Tgt Ion: 61 Resp: 19003

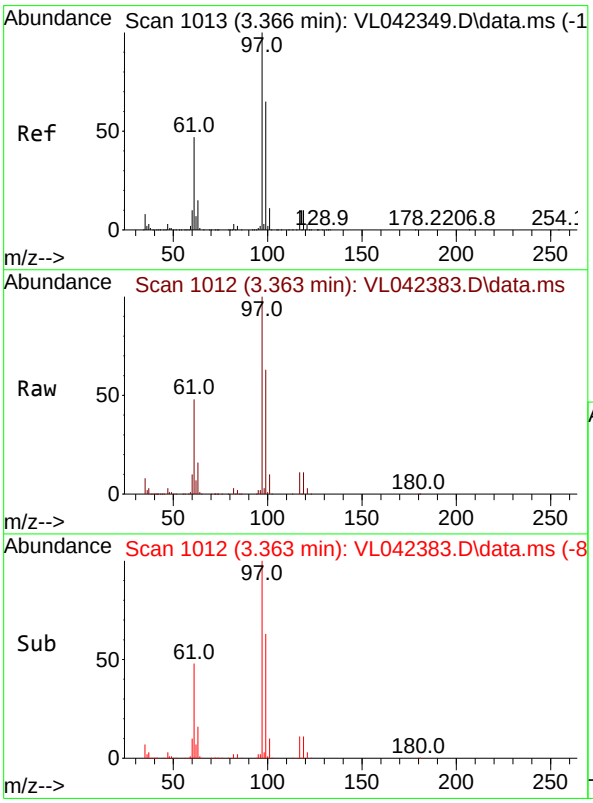
Ion	Ratio	Lower	Upper
61	100		
96	63.8	50.8	76.2
98	40.7	30.9	46.3



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

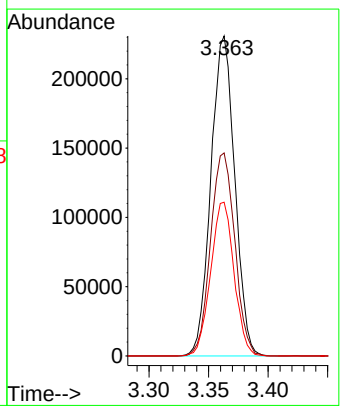
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025

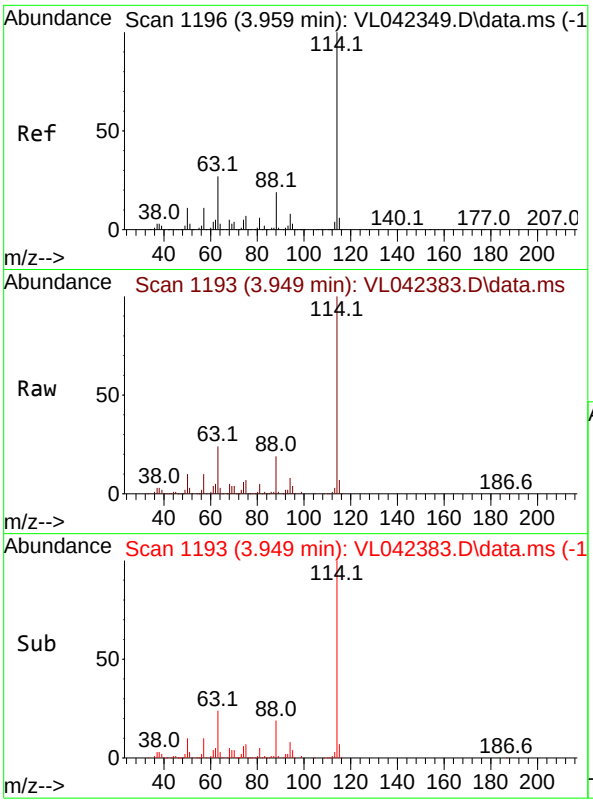


#32
1,1,1-Trichloroethane
Concen: 9.097 ppbv
RT: 3.363 min Scan# 1012
Delta R.T. -0.003 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Tgt Ion: 97 Resp: 321462

Ion	Ratio	Lower	Upper
97	100		
99	64.5	51.0	76.4
61	47.1	38.8	58.2

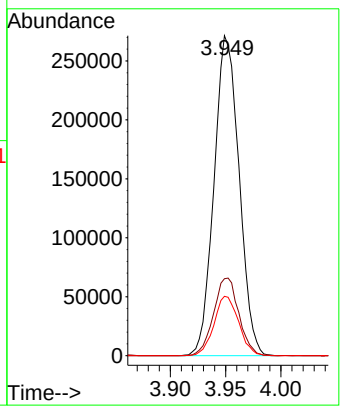




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.949 min Scan# 1
Delta R.T. -0.010 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Tgt Ion:114 Resp: 42754

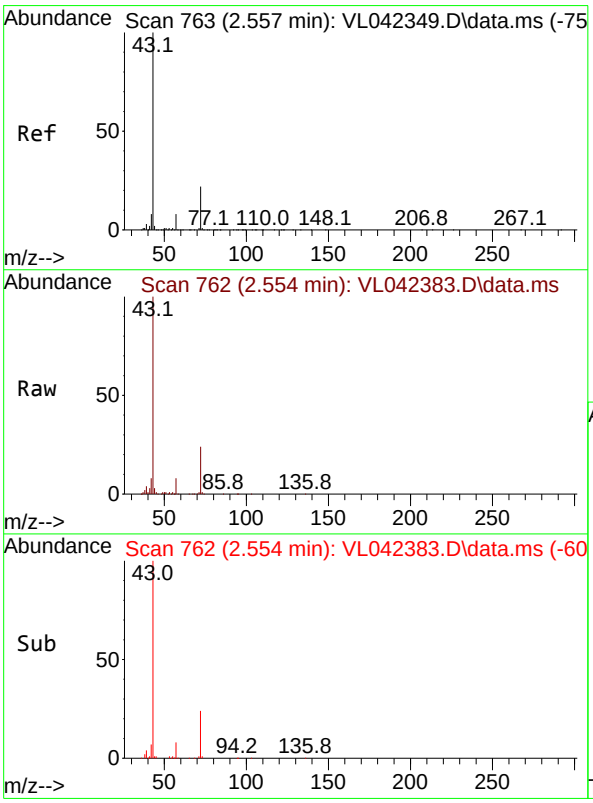
Ion	Ratio	Lower	Upper
114	100		
63	24.4	21.8	32.6
88	18.3	15.5	23.3



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

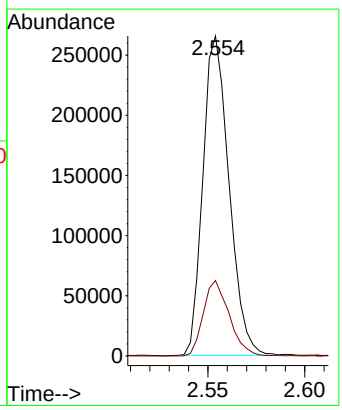
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025

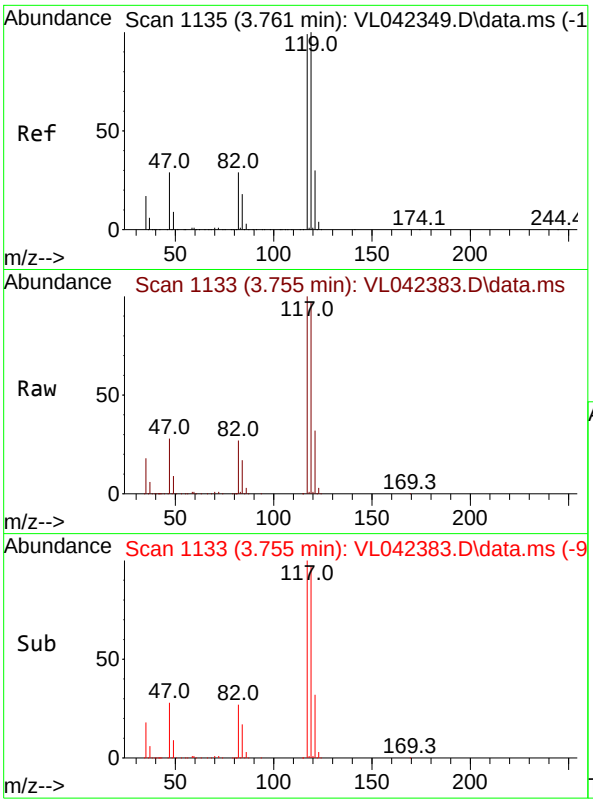


#34
2-Butanone
Concen: 7.367 ppbv
RT: 2.554 min Scan# 762
Delta R.T. -0.003 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Tgt Ion: 43 Resp: 249113

Ion	Ratio	Lower	Upper
43	100		
72	23.5	18.2	27.2

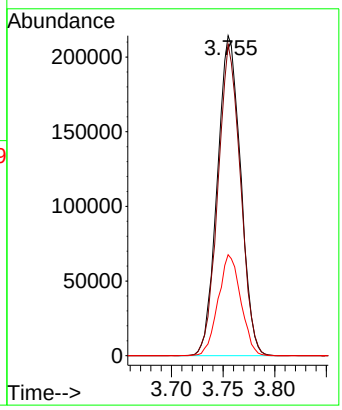




#35
Carbon Tetrachloride
Concen: 8.695 ppbv
RT: 3.755 min Scan# 1
Delta R.T. -0.006 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Tgt Ion:117 Resp: 33645

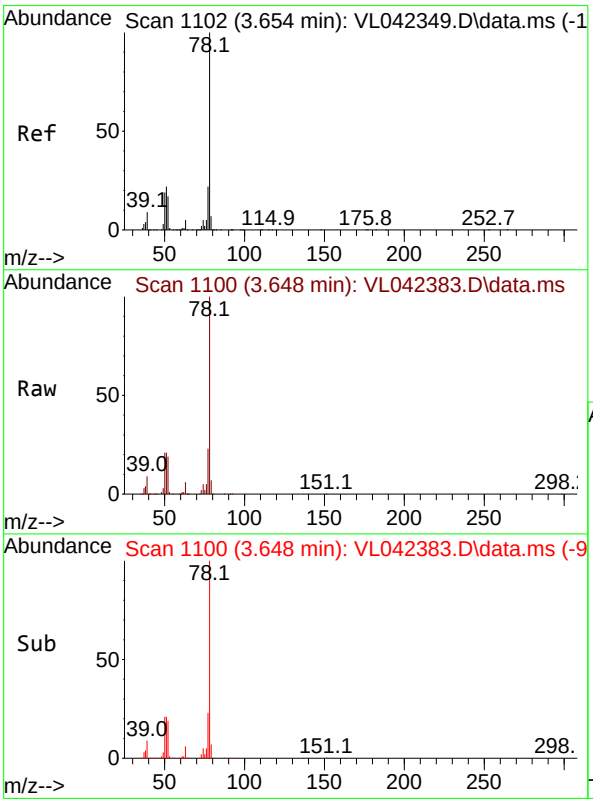
Ion	Ratio	Lower	Upper
117	100		
119	97.3	80.5	120.7
121	31.5	24.2	36.2



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

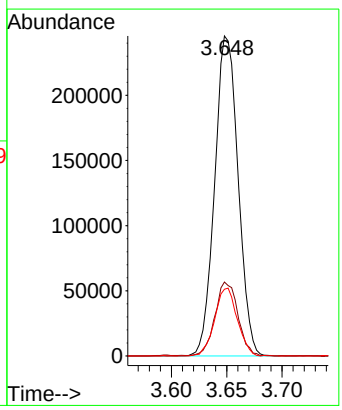
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025

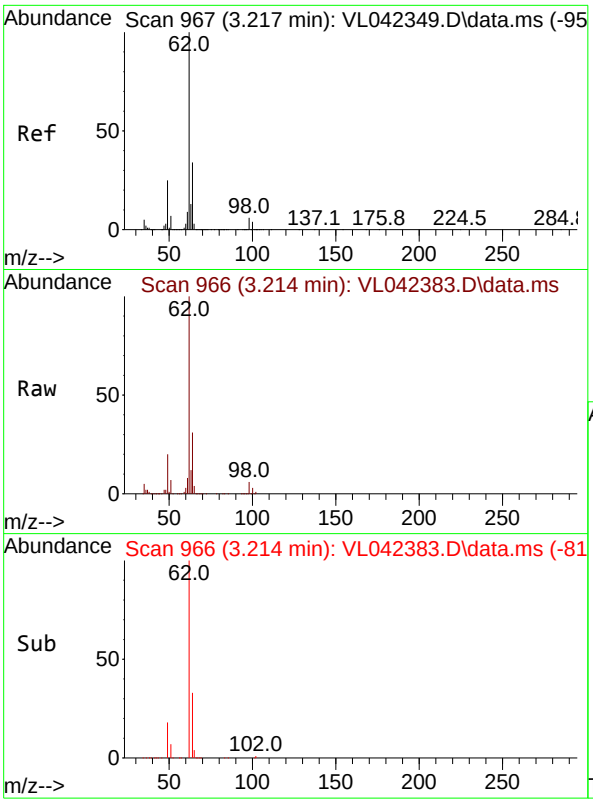


#36
Benzene
Concen: 7.842 ppbv
RT: 3.648 min Scan# 1100
Delta R.T. -0.006 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Tgt Ion: 78 Resp: 361650

Ion	Ratio	Lower	Upper
78	100		
77	23.0	17.4	26.0
50	20.9	15.5	23.3

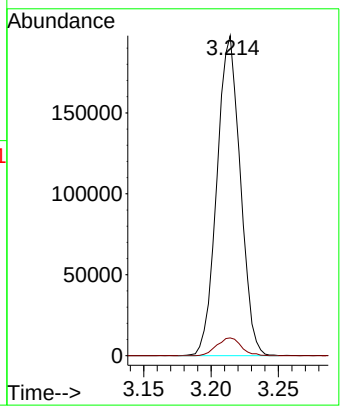




#37
1,2-Dichloroethane
Concen: 8.638 ppbv
RT: 3.214 min Scan# 9
Delta R.T. -0.003 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Tgt Ion: 62 Resp: 23907

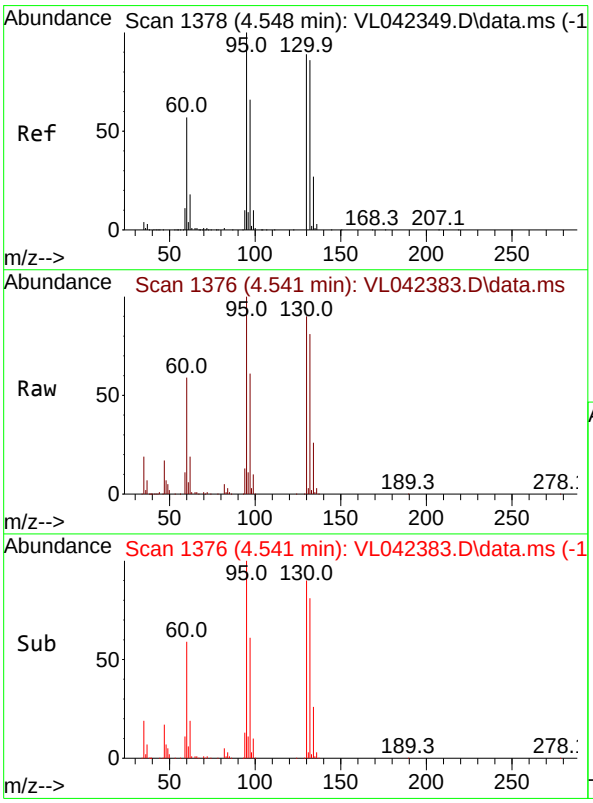
Ion	Ratio	Lower	Upper
62	100		
98	5.8	5.1	7.7



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

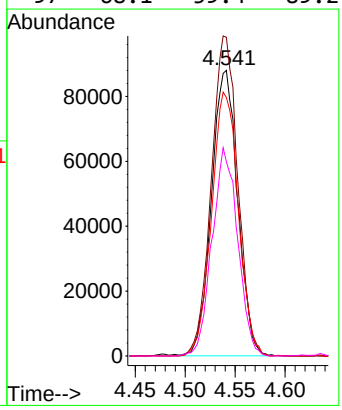
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025

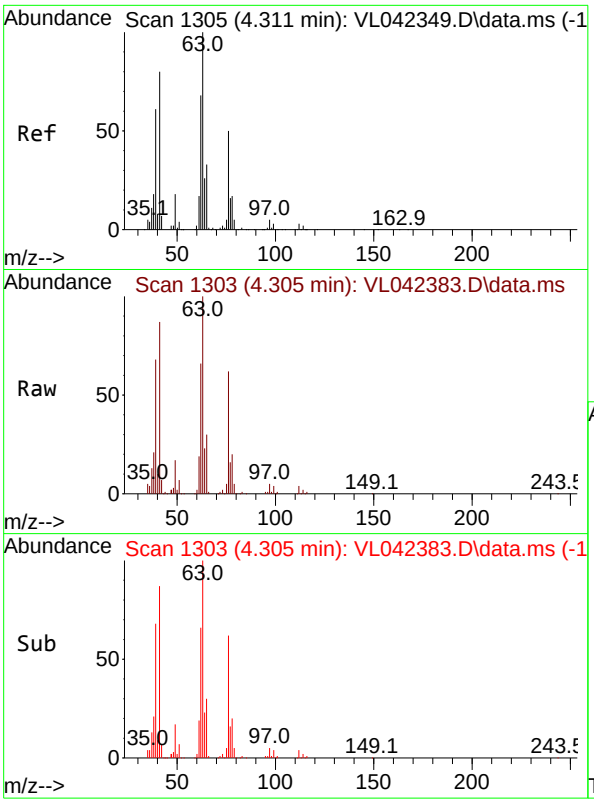


#38
Trichloroethene
Concen: 7.964 ppbv
RT: 4.541 min Scan# 1376
Delta R.T. -0.006 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Tgt Ion:130 Resp: 160521

Ion	Ratio	Lower	Upper
130	100		
95	111.6	89.8	134.6
132	90.5	77.7	116.5
97	68.1	59.4	89.2

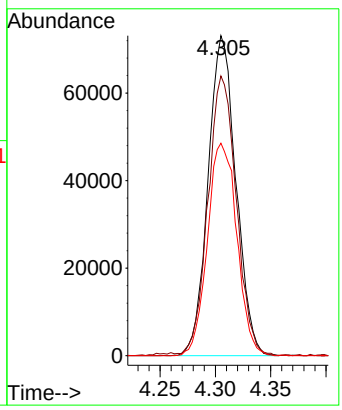




#39
1,2-Dichloropropane
Concen: 7.458 ppbv
RT: 4.305 min Scan# 1
Delta R.T. -0.006 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Tgt Ion: 63 Resp: 12816

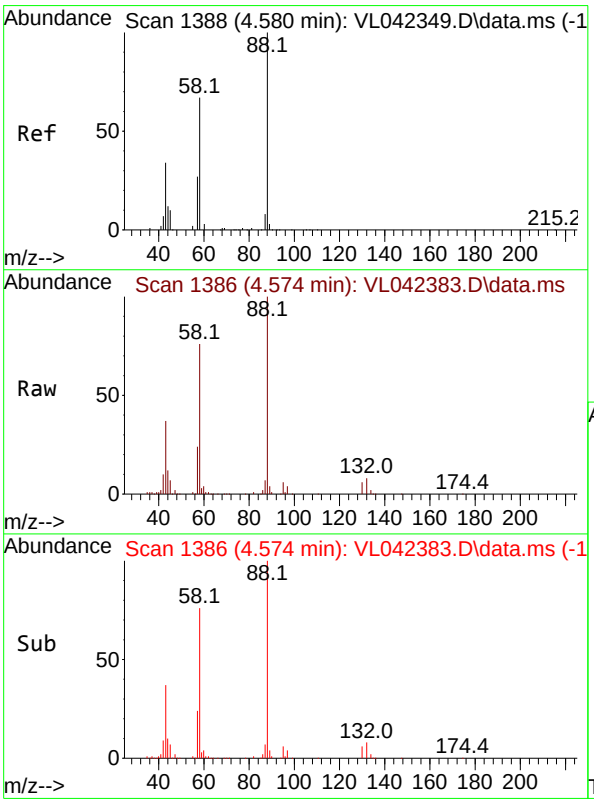
Ion	Ratio	Lower	Upper
63	100		
41	87.2	64.2	96.2
62	66.4	54.3	81.5



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

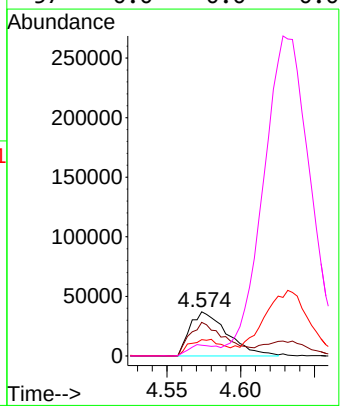
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025

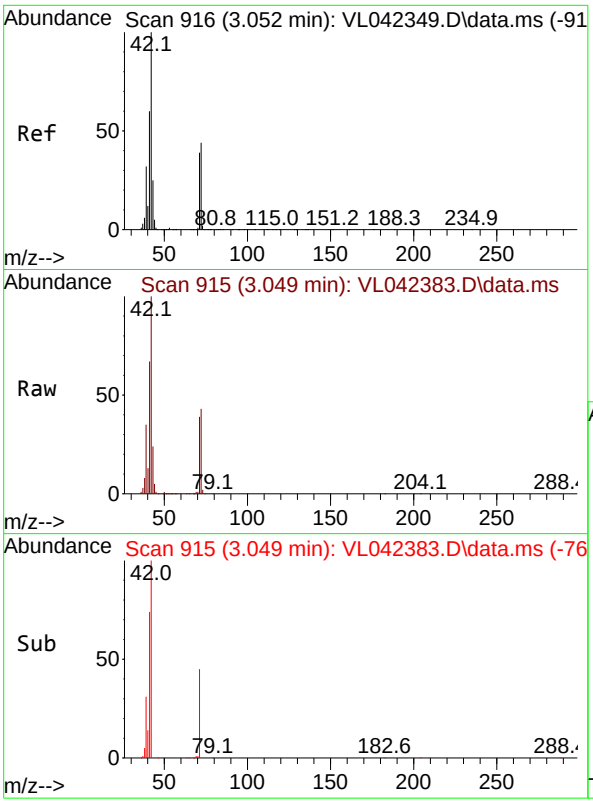


#40
1,4-Dioxane
Concen: 6.962 ppbv
RT: 4.574 min Scan# 1386
Delta R.T. -0.006 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Tgt Ion: 88 Resp: 65746

Ion	Ratio	Lower	Upper
88	100		
58	69.9	61.4	92.0
43	32.8	23.2	34.8
57	0.0	0.0	0.0

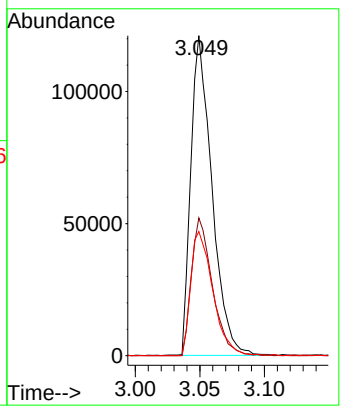




#41
Tetrahydrofuran
Concen: 6.984 ppbv
RT: 3.049 min Scan# 9
Delta R.T. -0.003 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Tgt Ion: 42 Resp: 13769

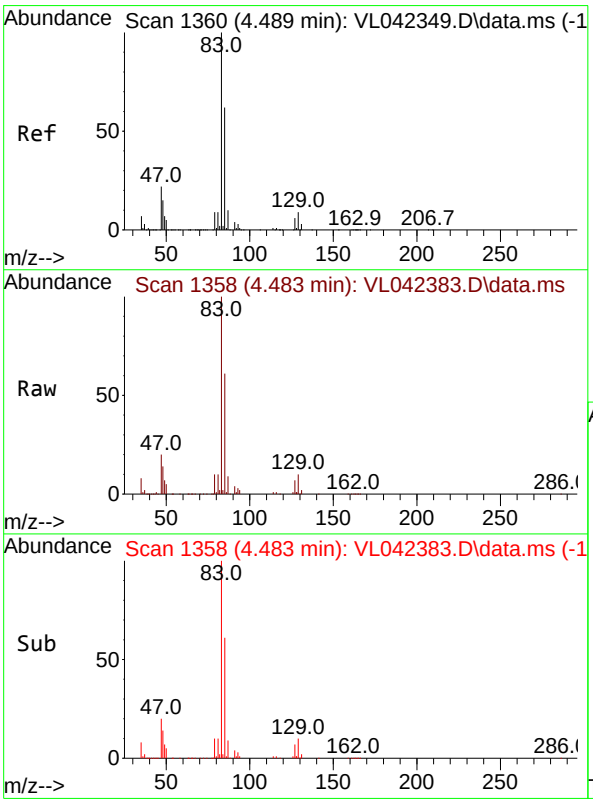
Ion	Ratio	Lower	Upper
42	100		
72	42.8	32.3	48.5
71	40.9	31.4	47.2



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations APPROVED

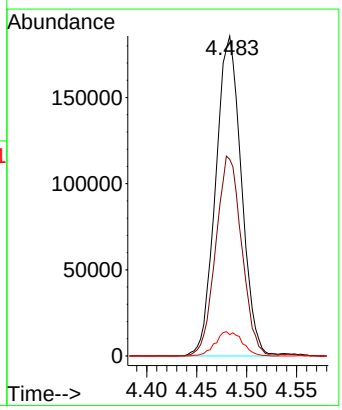
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025

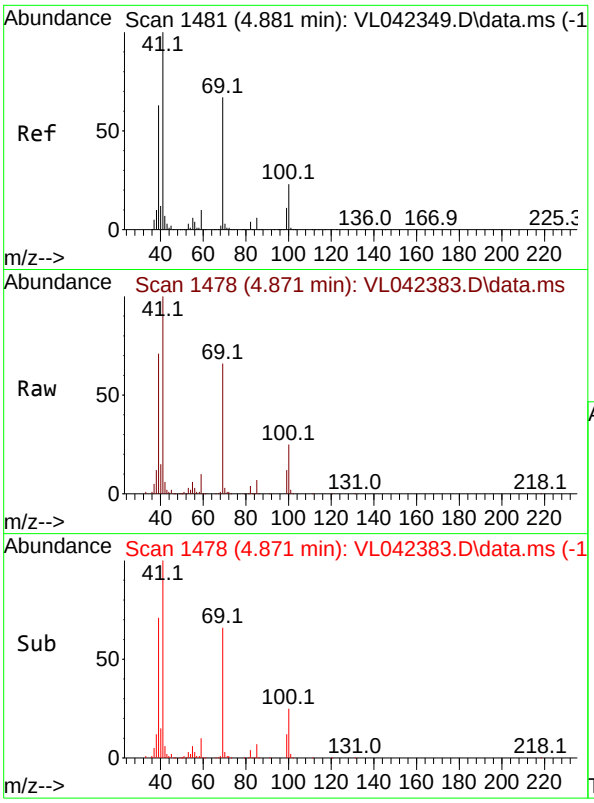


#42
Bromodichloromethane
Concen: 8.632 ppbv
RT: 4.483 min Scan# 1358
Delta R.T. -0.006 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Tgt Ion: 83 Resp: 332490

Ion	Ratio	Lower	Upper
83	100		
85	61.4	49.7	74.5
127	6.6	5.1	7.7

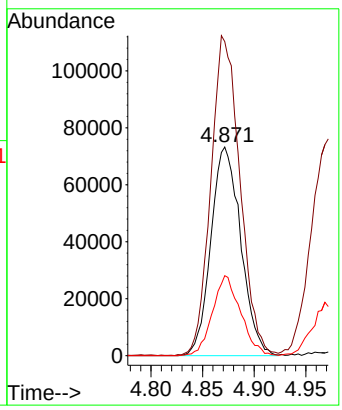




#43
Methyl Methacrylate
Concen: 7.098 ppbv
RT: 4.871 min Scan# 14
Delta R.T. -0.010 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Tgt Ion: 69 Resp: 14751

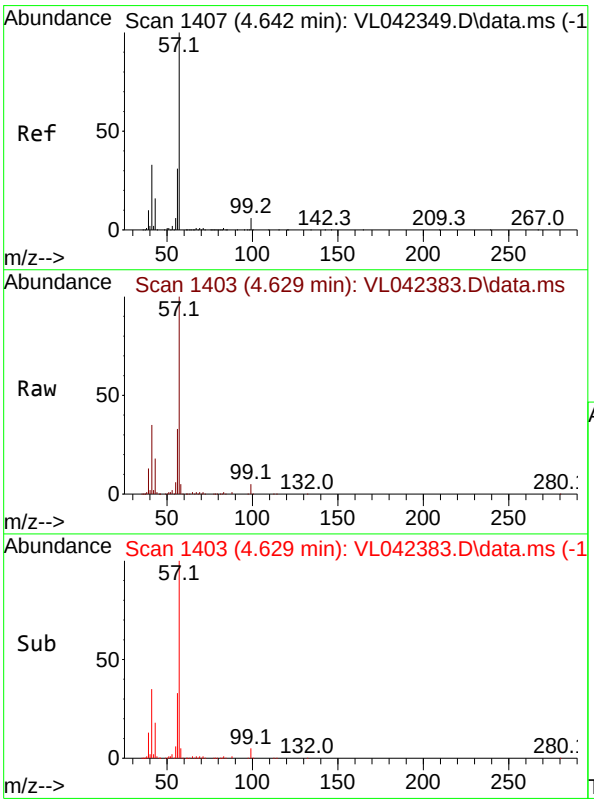
Ion	Ratio	Lower	Upper
69	100		
41	149.5	118.6	177.8
100	36.1	28.2	42.2



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

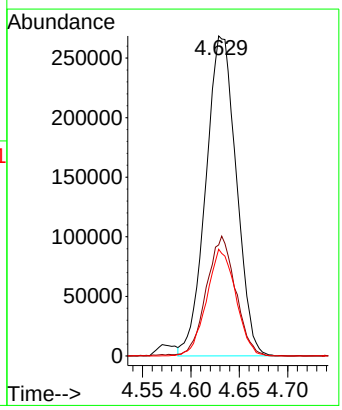
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025

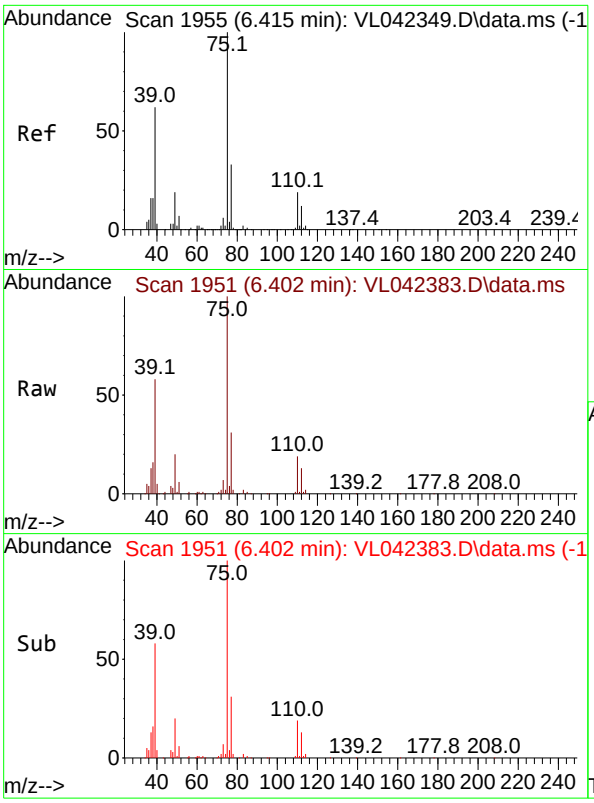


#44
2,2,4-Trimethylpentane
Concen: 7.374 ppbv
RT: 4.629 min Scan# 1403
Delta R.T. -0.013 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Tgt Ion: 57 Resp: 587274

Ion	Ratio	Lower	Upper
57	100		
41	36.2	27.2	40.8
56	32.0	25.7	38.5

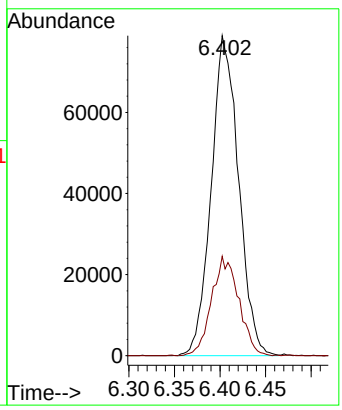




#45
t-1,3-Dichloropropene
Concen: 7.756 ppbv
RT: 6.402 min Scan# 1
Delta R.T. -0.013 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Tgt Ion: 75 Resp: 16465

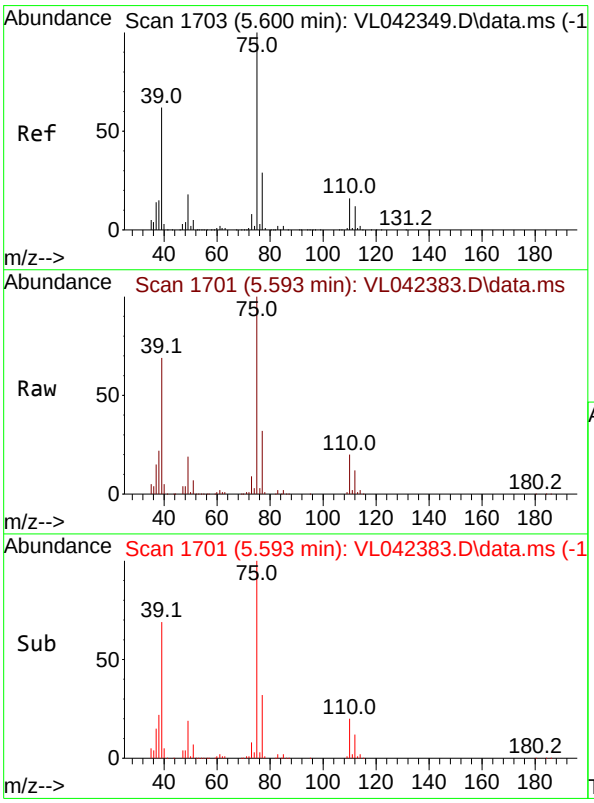
Ion	Ratio	Lower	Upper
75	100		
77	31.1	27.0	40.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

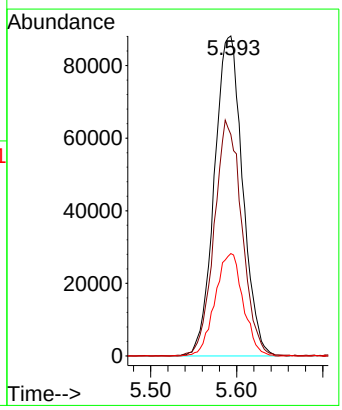
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025

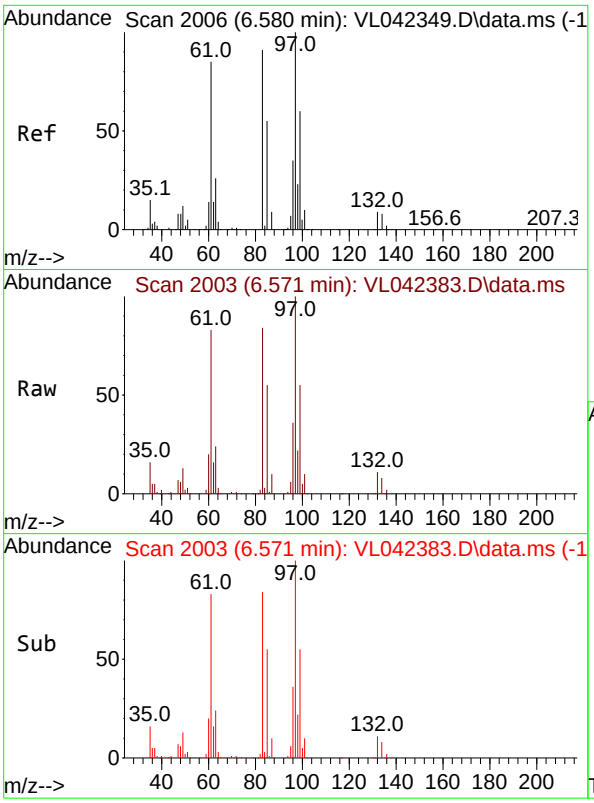


#46
cis-1,3-Dichloropropene
Concen: 7.729 ppbv
RT: 5.593 min Scan# 1701
Delta R.T. -0.006 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Tgt Ion: 75 Resp: 200823

Ion	Ratio	Lower	Upper
75	100		
39	69.0	50.0	75.0
77	32.0	23.0	34.6

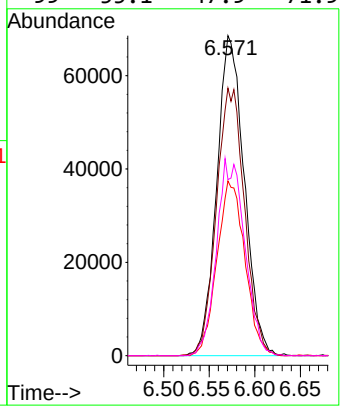




#47
1,1,2-Trichloroethane
Concen: 8.199 ppbv
RT: 6.571 min Scan# 2
Delta R.T. -0.010 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Tgt Ion: 97 Resp: 14354

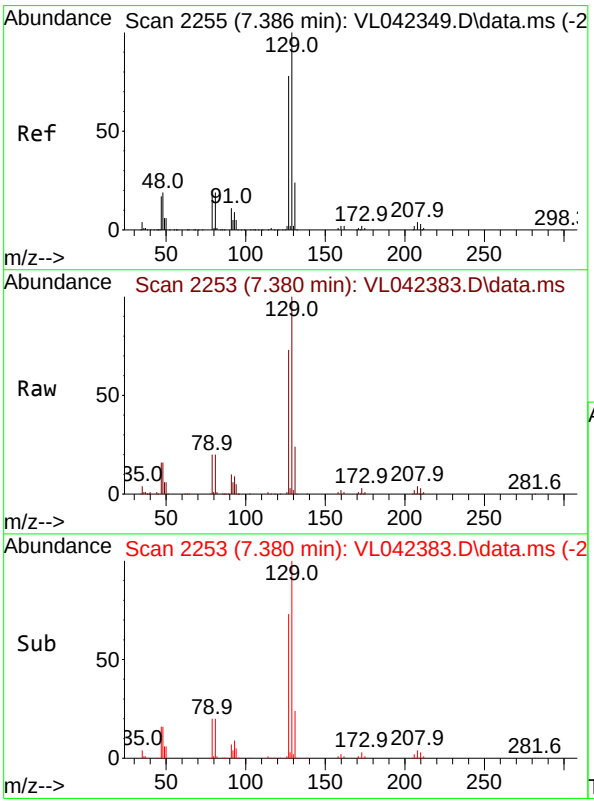
Ion	Ratio	Lower	Upper
97	100		
83	83.6	72.8	109.2
85	54.6	44.2	66.4
99	55.1	47.9	71.9



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

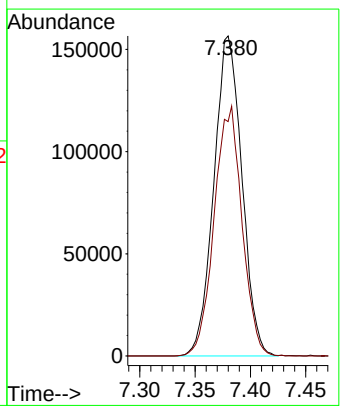
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025

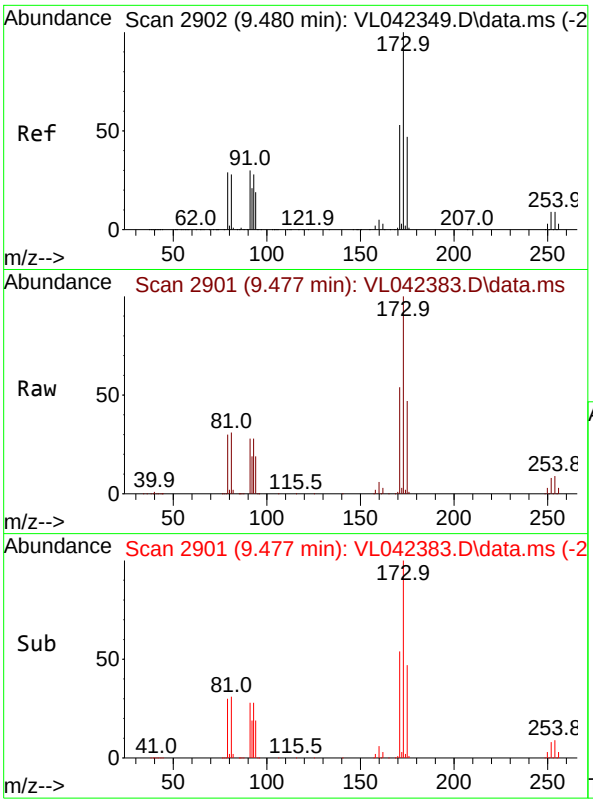


#48
Dibromochloromethane
Concen: 8.931 ppbv
RT: 7.380 min Scan# 2253
Delta R.T. -0.006 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Tgt Ion:129 Resp: 276258

Ion	Ratio	Lower	Upper
129	100		
127	77.3	39.1	117.3

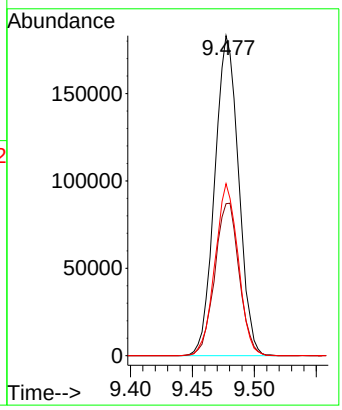




#49
Bromoform
Concen: 9.086 ppbv
RT: 9.477 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Tgt Ion:173 Resp: 24573

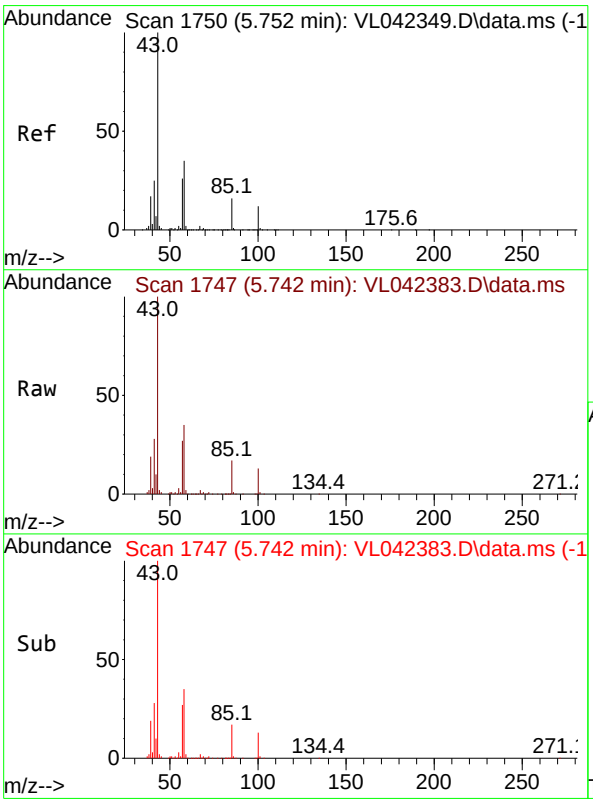
Ion	Ratio	Lower	Upper
173	100		
175	48.8	38.2	57.2
171	52.2	40.9	61.3



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

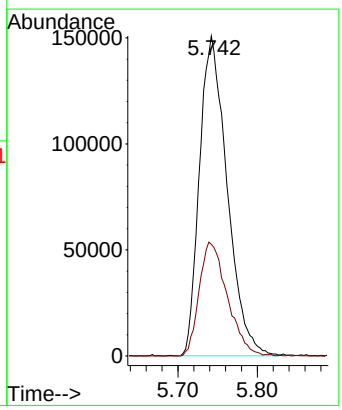
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025

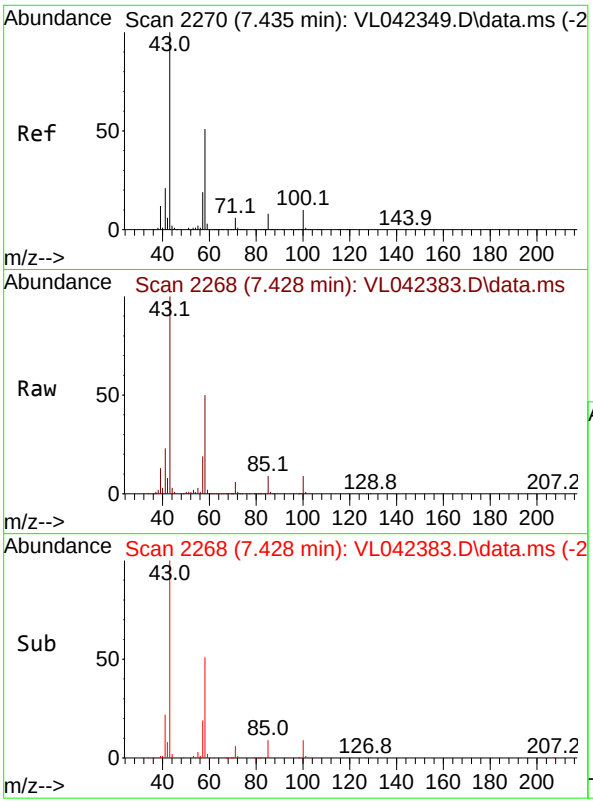


#50
4-Methyl-2-Pentanone
Concen: 6.501 ppbv
RT: 5.742 min Scan# 1747
Delta R.T. -0.010 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Tgt Ion: 43 Resp: 365292

Ion	Ratio	Lower	Upper
43	100		
58	36.3	28.6	43.0





#51
2-Hexanone
Concen: 5.874 ppbv
RT: 7.428 min Scan# 2
Delta R.T. -0.006 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

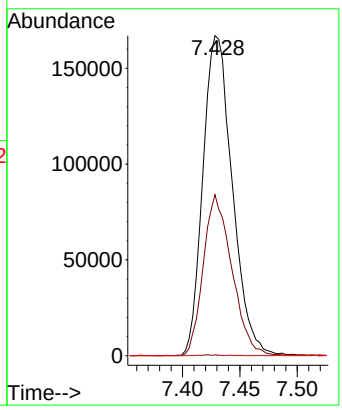
Tgt Ion: 43 Resp: 29601

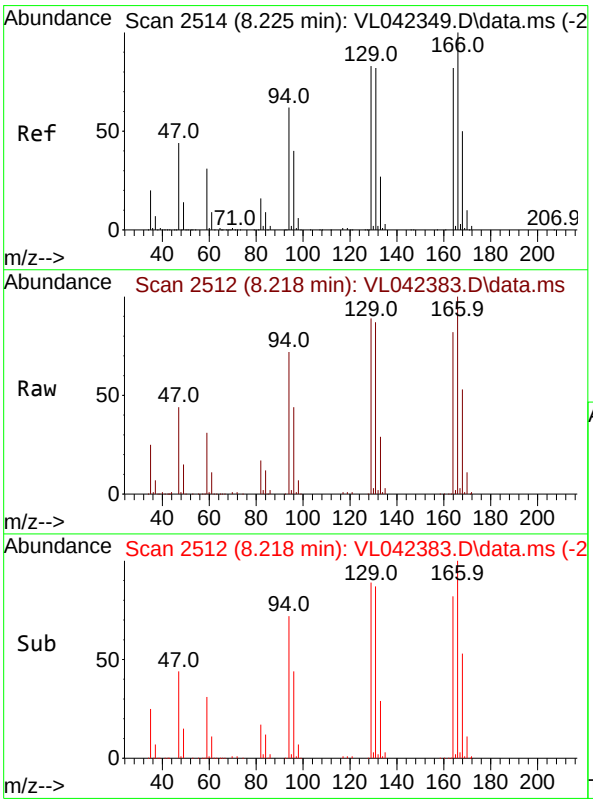
Ion	Ratio	Lower	Upper
43	100		
58	49.2	40.2	60.4
98	0.2	0.1	0.1

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025

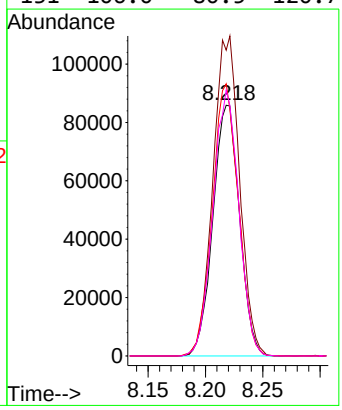


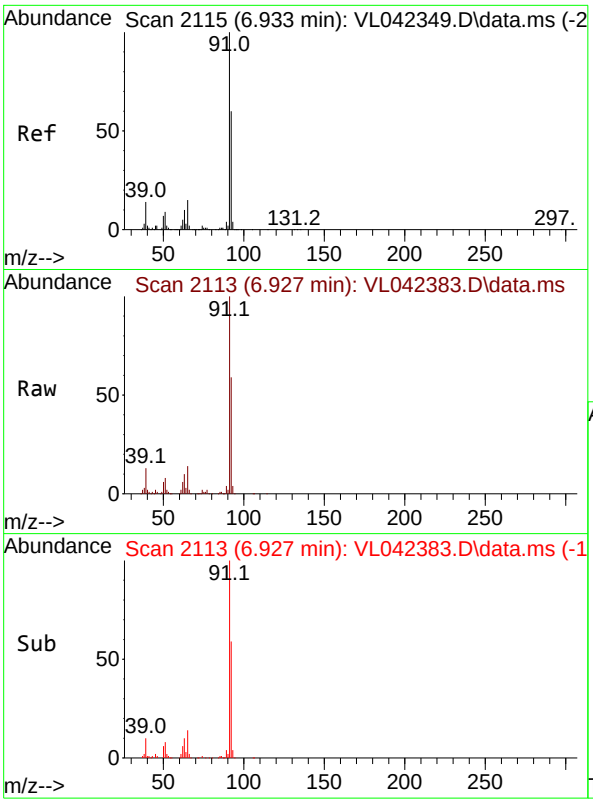


#52
Tetrachloroethene
Concen: 7.759 ppbv
RT: 8.218 min Scan# 2512
Delta R.T. -0.006 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Tgt Ion:164 Resp: 138295

Ion	Ratio	Lower	Upper
164	100		
166	121.9	98.2	147.2
129	108.5	81.8	122.8
131	106.0	80.5	120.7

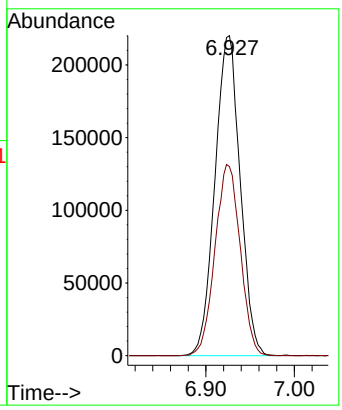




#53
Toluene
Concen: 7.886 ppbv
RT: 6.927 min Scan# 21
Delta R.T. -0.006 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Tgt Ion: 91 Resp: 43638

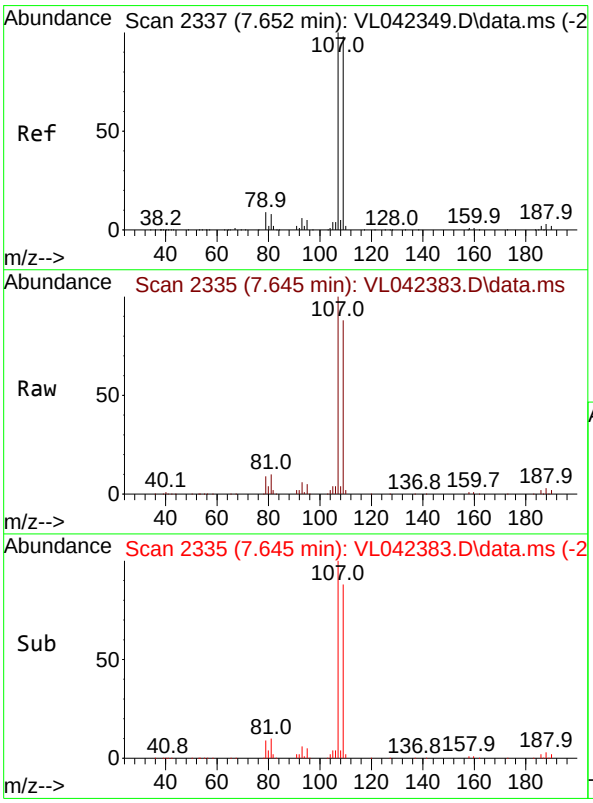
Ion	Ratio	Lower	Upper
91	100		
92	59.7	48.2	72.4



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

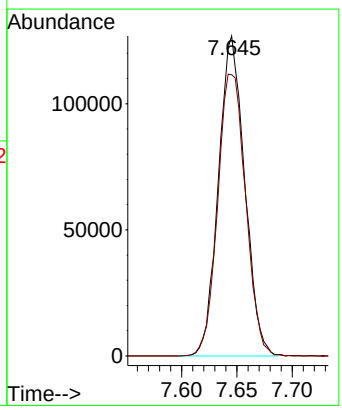
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025

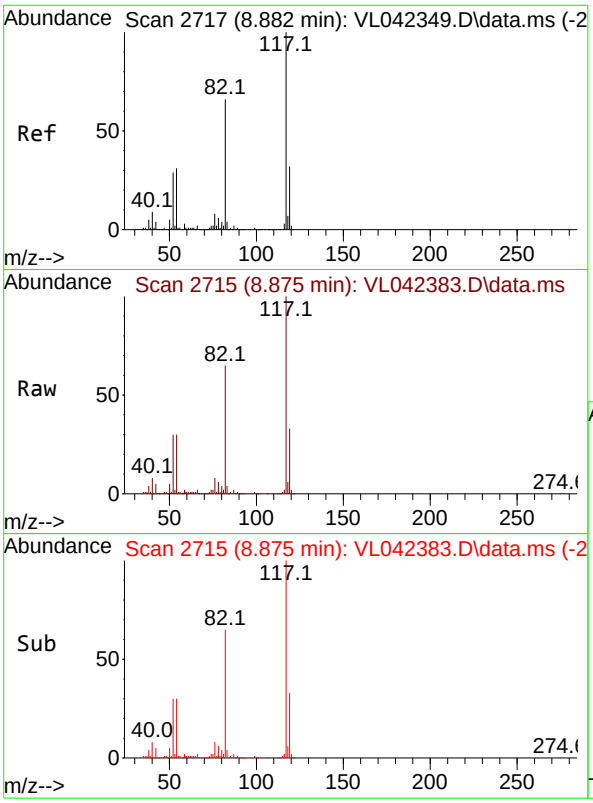


#54
1,2-Dibromoethane
Concen: 8.347 ppbv
RT: 7.645 min Scan# 2335
Delta R.T. -0.006 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Tgt Ion:107 Resp: 209152

Ion	Ratio	Lower	Upper
107	100		
109	87.9	78.2	117.4

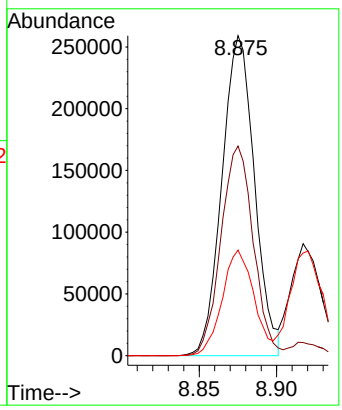




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 2
Delta R.T. -0.006 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Tgt Ion:117 Resp: 37921

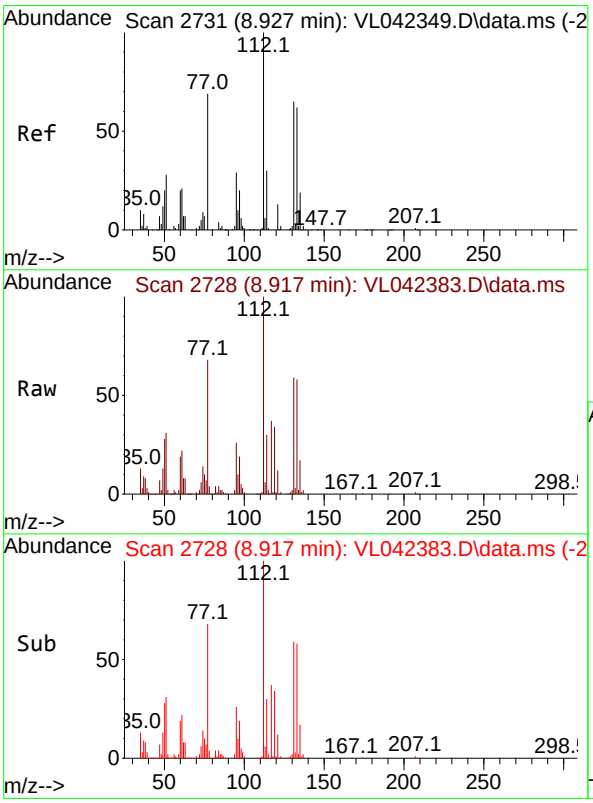
Ion	Ratio	Lower	Upper
117	100		
82	69.1	57.8	86.6
119	31.8	25.2	37.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

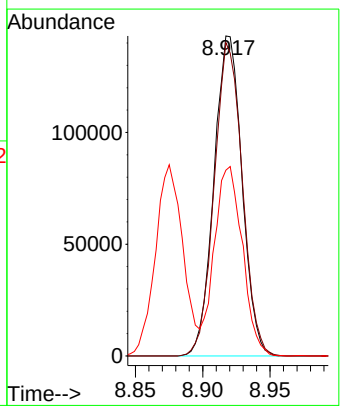
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025

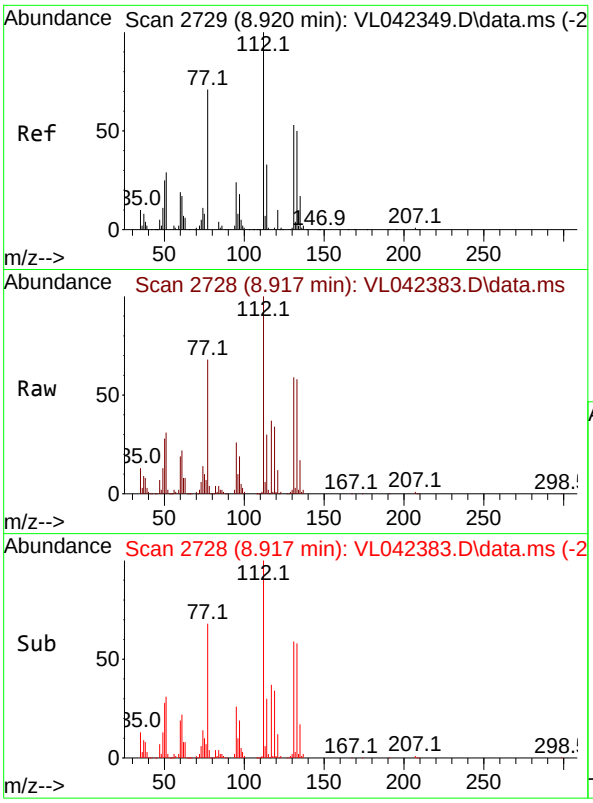


#56
1,1,1,2-Tetrachloroethane
Concen: 9.038 ppbv
RT: 8.917 min Scan# 2728
Delta R.T. -0.010 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Tgt Ion:131 Resp: 207437

Ion	Ratio	Lower	Upper
131	100		
133	98.0	78.3	117.5
119	59.4	48.7	73.1

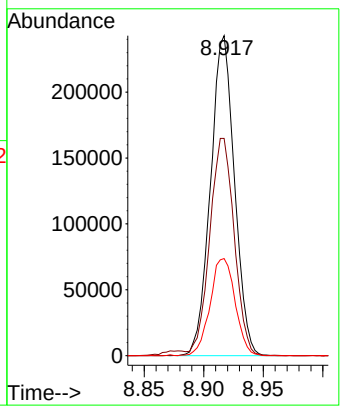




#57
Chlorobenzene
Concen: 8.619 ppbv
RT: 8.917 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Tgt Ion:112 Resp: 33993

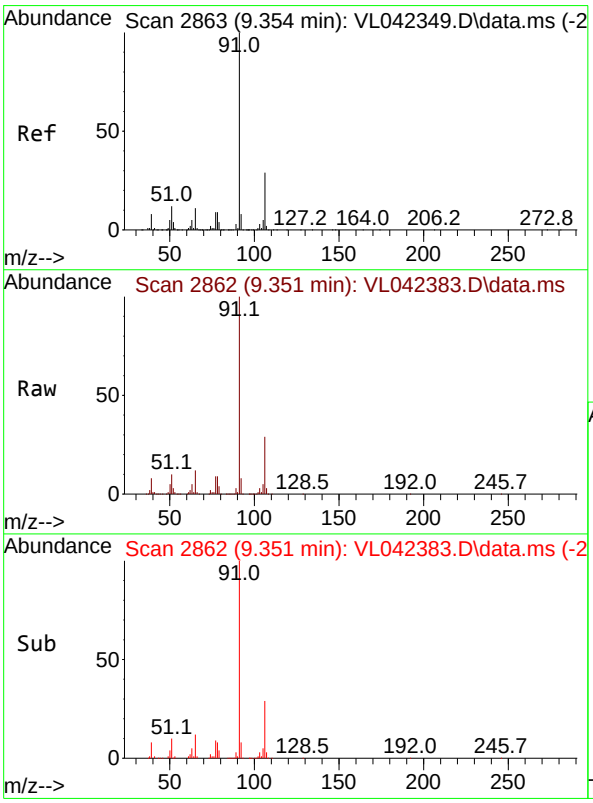
Ion	Ratio	Lower	Upper
112	100		
77	67.8	57.8	86.6
114	30.3	29.3	35.9



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

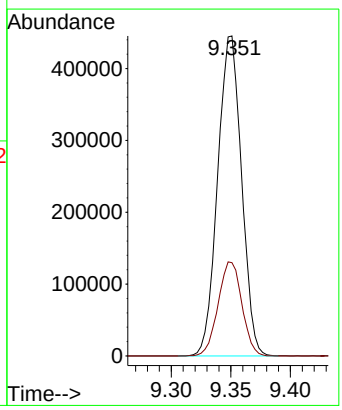
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025

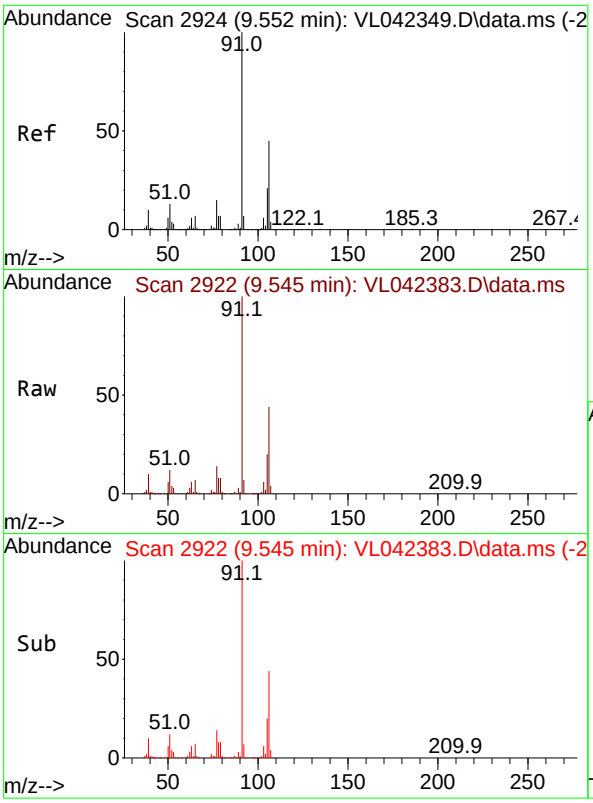


#58
Ethyl Benzene
Concen: 8.258 ppbv
RT: 9.351 min Scan# 2862
Delta R.T. -0.003 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Tgt Ion: 91 Resp: 620425

Ion	Ratio	Lower	Upper
91	100		
106	29.2	23.0	34.4





#59
m/p-Xylene
Concen: 16.726 ppbv m
RT: 9.545 min Scan# 2
Delta R.T. -0.006 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

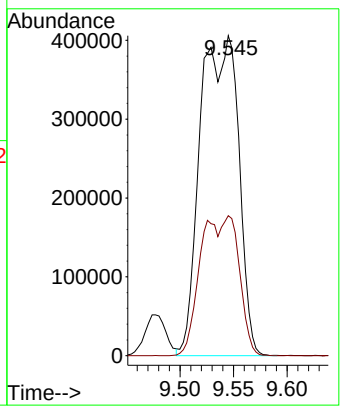
Tgt Ion: 91 Resp: 101238

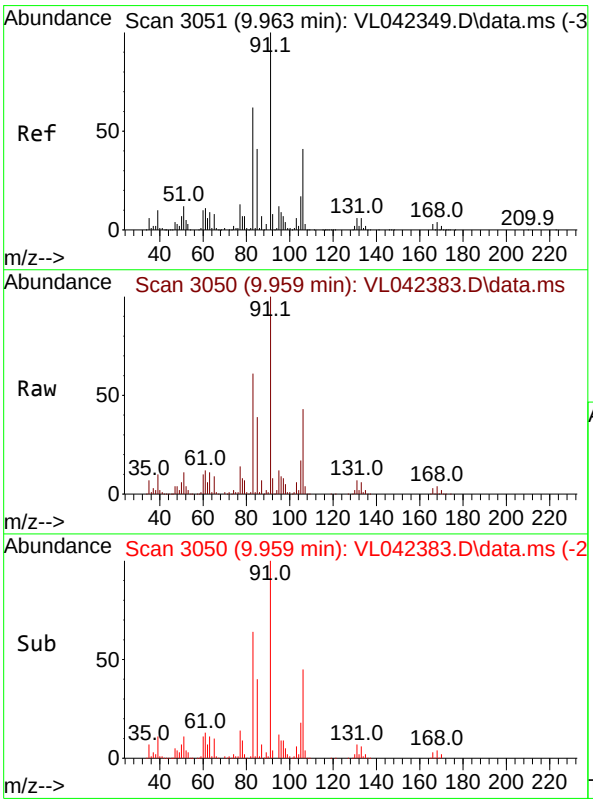
Ion	Ratio	Lower	Upper
91	100		
106	44.0	35.4	53.2

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025

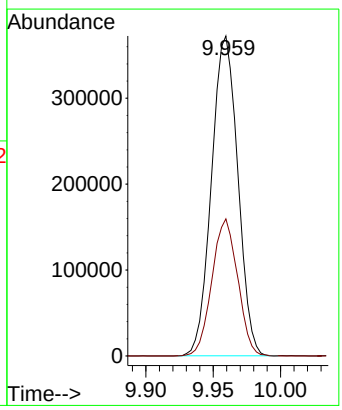


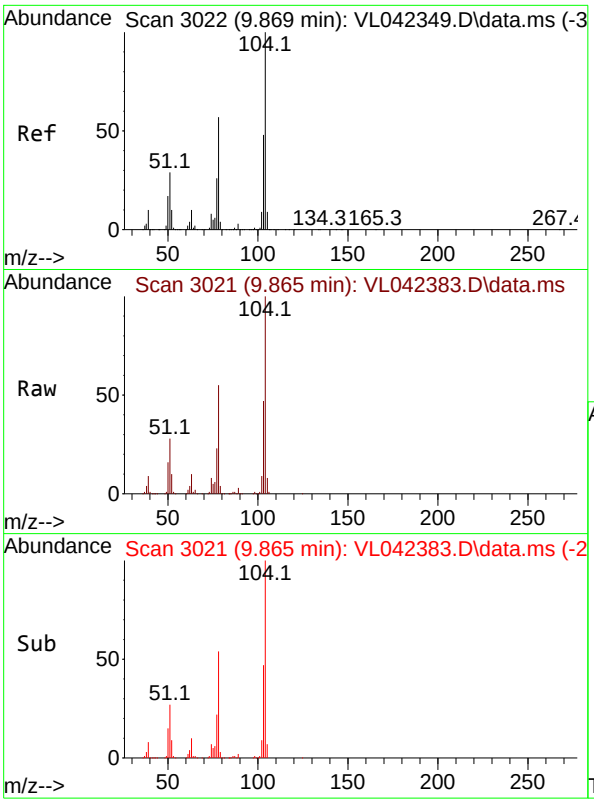


#60
o-Xylene
Concen: 8.290 ppbv
RT: 9.959 min Scan# 3050
Delta R.T. -0.003 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Tgt Ion: 91 Resp: 505258

Ion	Ratio	Lower	Upper
91	100		
106	42.0	21.1	63.4

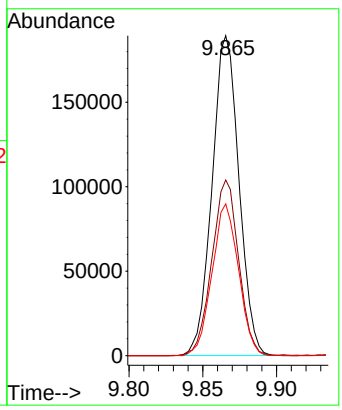




#61
Styrene
Concen: 8.253 ppbv
RT: 9.865 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Tgt Ion:104 Resp: 24010

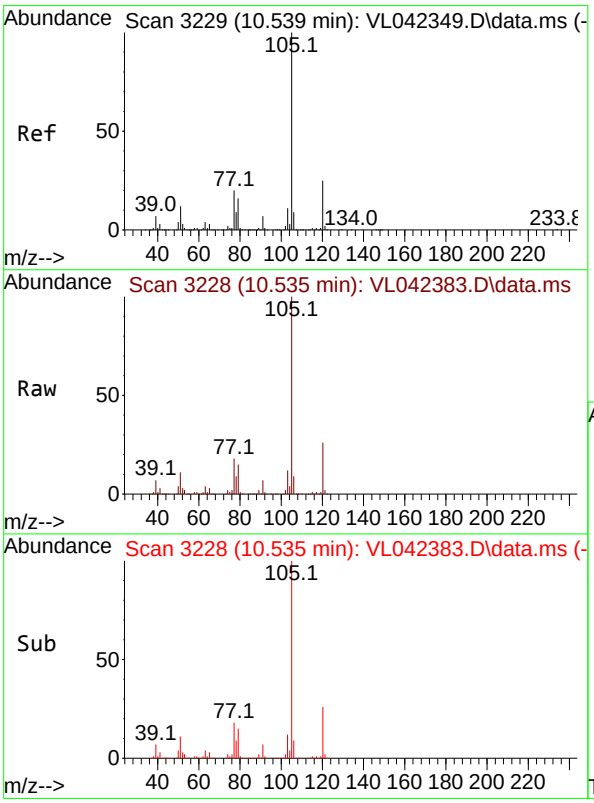
Ion	Ratio	Lower	Upper
104	100		
78	54.7	44.6	66.8
103	46.9	37.4	56.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

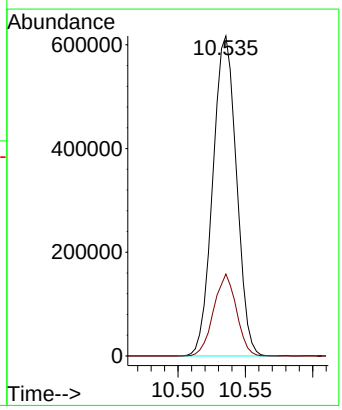
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025

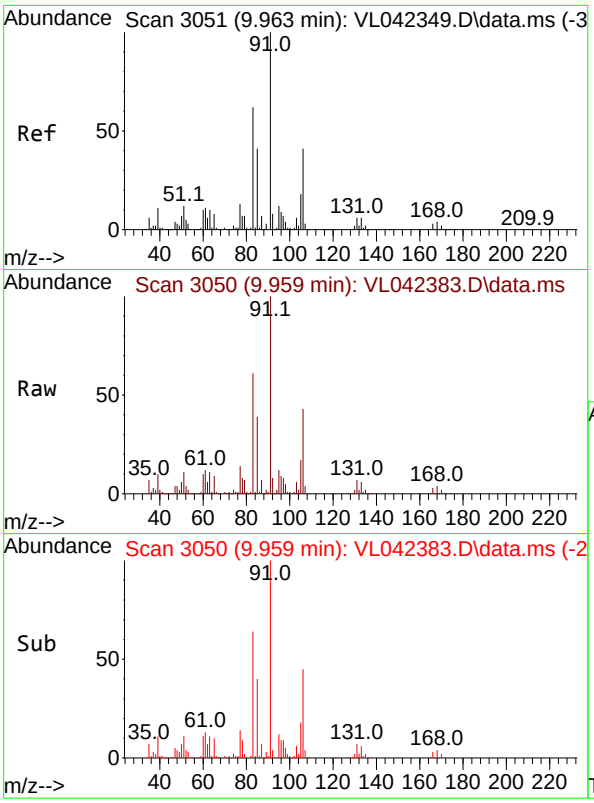


#62
Isopropylbenzene
Concen: 8.422 ppbv
RT: 10.535 min Scan# 3228
Delta R.T. -0.003 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Tgt Ion:105 Resp: 753628

Ion	Ratio	Lower	Upper
105	100		
120	24.6	19.8	29.8





#63
1,1,2,2-Tetrachloroethane
Concen: 7.520 ppbv
RT: 9.959 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

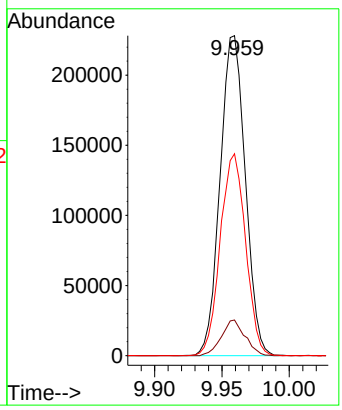
Tgt Ion: 83 Resp: 29702

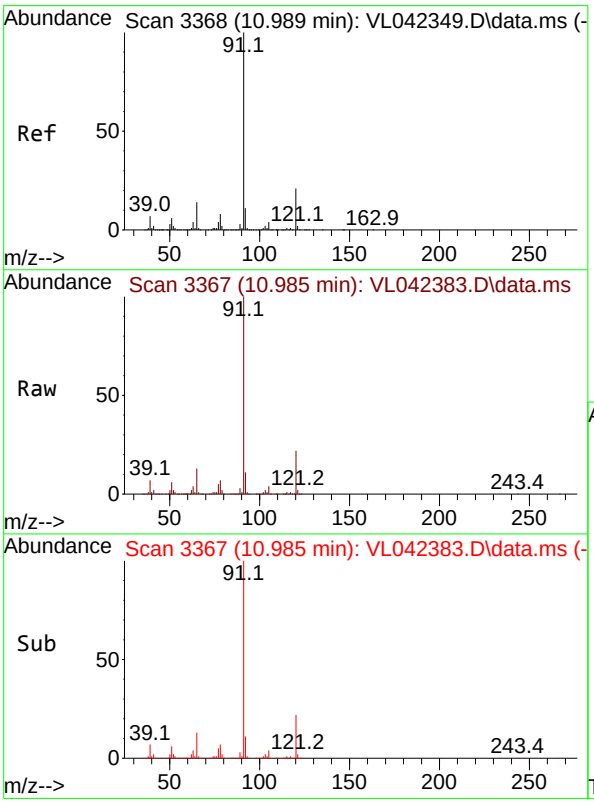
Ion	Ratio	Lower	Upper
83	100		
131	10.5	4.5	13.7
85	63.5	32.4	97.0

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025

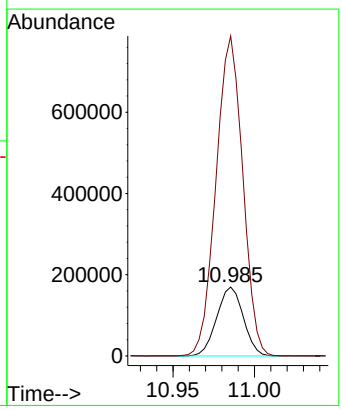


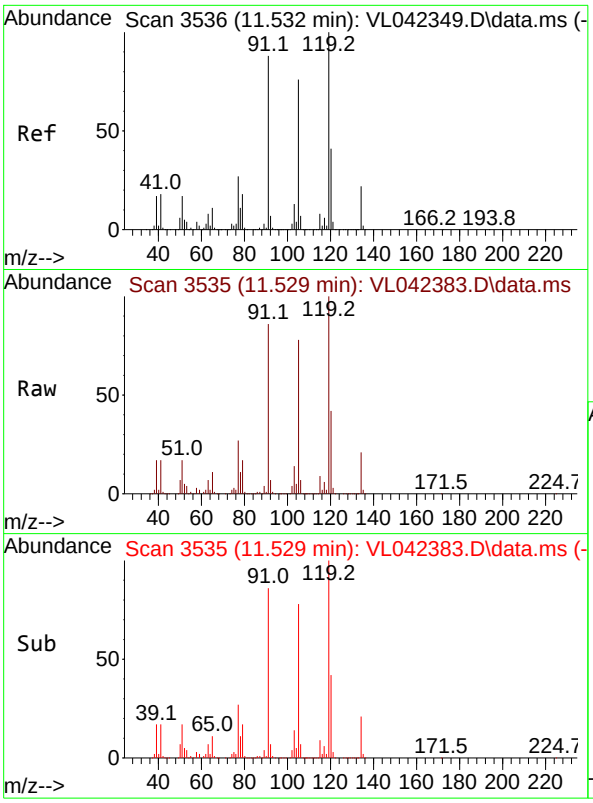


#64
n-propylbenzene
Concen: 8.534 ppbv
RT: 10.985 min Scan# 3367
Delta R.T. -0.003 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Tgt Ion:120 Resp: 191951

Ion	Ratio	Lower	Upper
120	100		
91	467.4	392.4	588.6

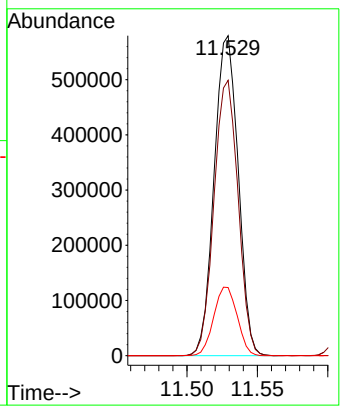




#65
tert-Butylbenzene
Concen: 8.367 ppbv
RT: 11.529 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Tgt Ion:119 Resp: 68813

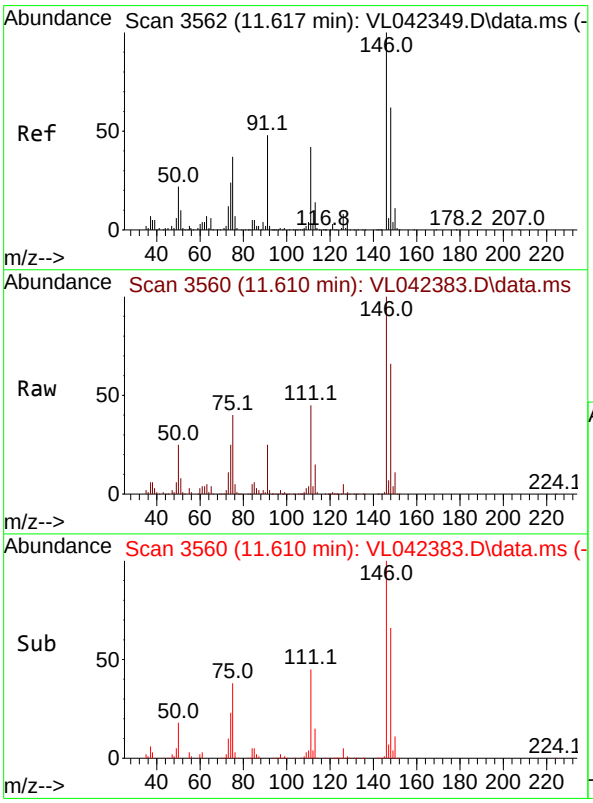
Ion	Ratio	Lower	Upper
119	100		
91	86.4	74.6	111.8
134	21.0	18.8	28.2



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

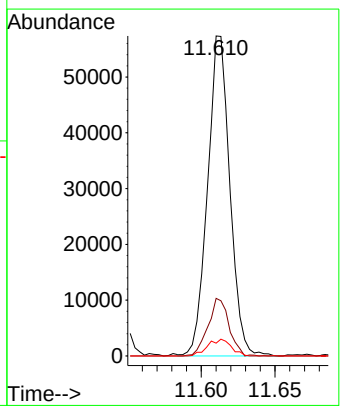
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025

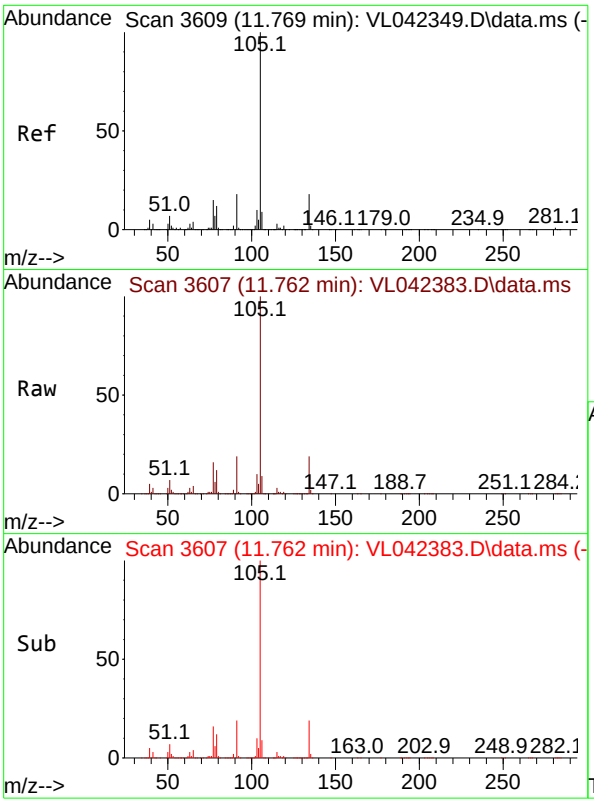


#66
Benzyl Chloride
Concen: 6.664 ppbv
RT: 11.610 min Scan# 3560
Delta R.T. -0.006 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Tgt Ion: 91 Resp: 60227

Ion	Ratio	Lower	Upper
91	100		
126	16.9	11.8	17.6
128	5.5	4.5	6.7





#67
sec-Butylbenzene
Concen: 8.295 ppbv
RT: 11.762 min Scan# 3
Delta R.T. -0.006 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

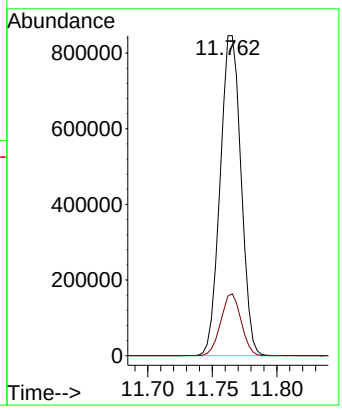
Tgt Ion:105 Resp: 94896

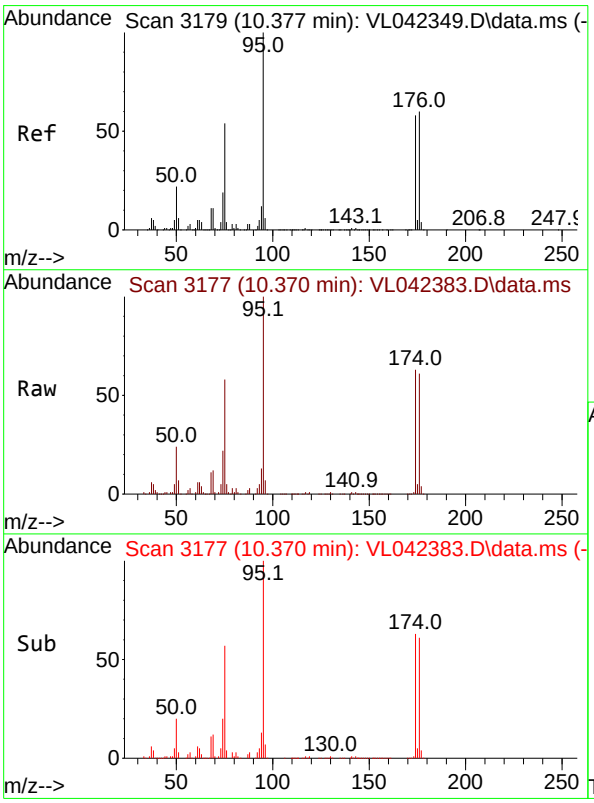
Ion	Ratio	Lower	Upper
105	100		
134	18.9	14.6	21.8

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025

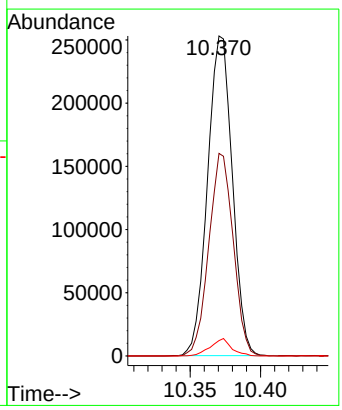


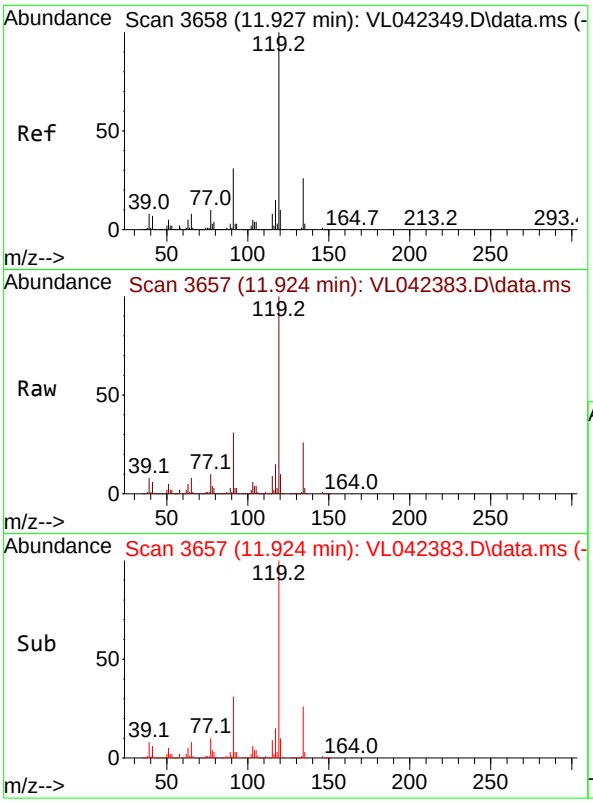


#68
1-Bromo-4-Fluorobenzene
Concen: 9.924 ppbv
RT: 10.370 min Scan# 3177
Delta R.T. -0.006 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Tgt Ion: 95 Resp: 309235

Ion	Ratio	Lower	Upper
95	100		
174	62.5	48.5	72.7
175	4.6	3.7	5.5

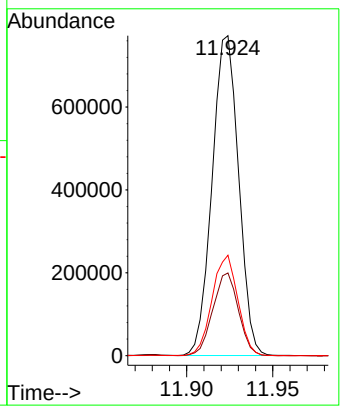




#69
p-Isopropyltoluene
Concen: 8.315 ppbv
RT: 11.924 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Tgt Ion:119 Resp: 82644

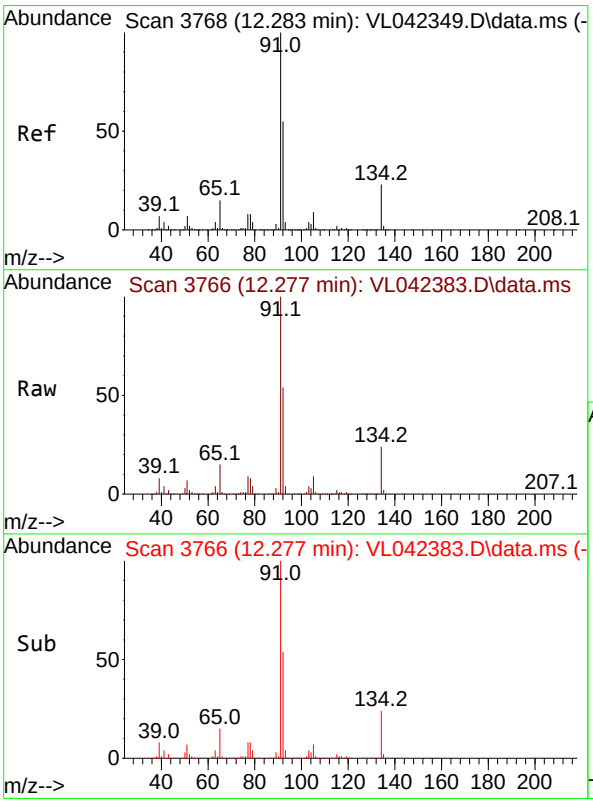
Ion	Ratio	Lower	Upper
119	100		
134	25.1	20.0	30.0
91	30.8	24.4	36.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

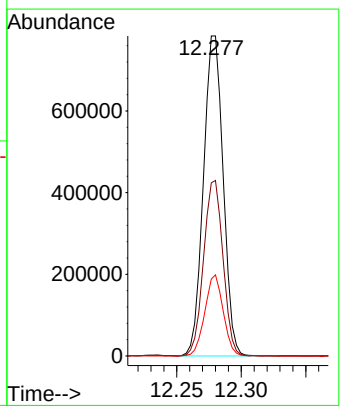
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025

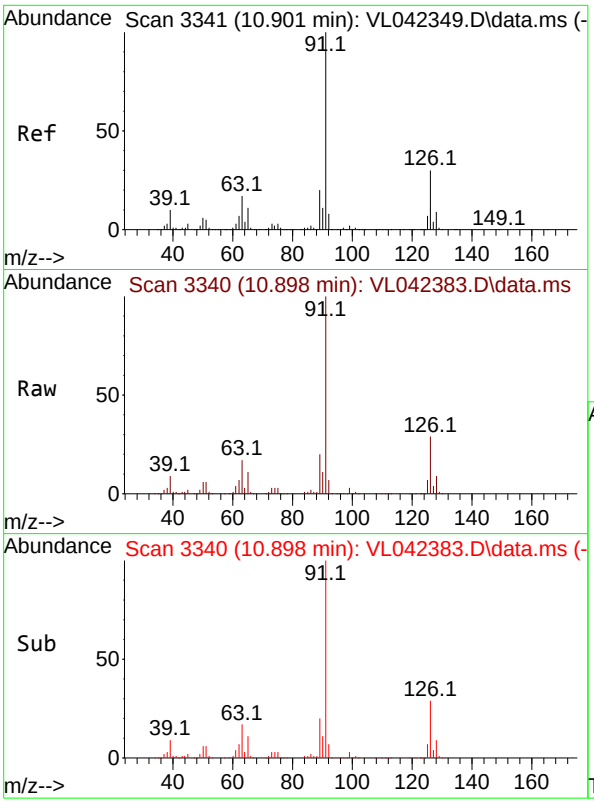


#70
n-Butylbenzene
Concen: 8.039 ppbv
RT: 12.277 min Scan# 3766
Delta R.T. -0.006 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Tgt Ion: 91 Resp: 832220

Ion	Ratio	Lower	Upper
91	100		
92	54.3	44.2	66.4
134	23.6	18.2	27.4

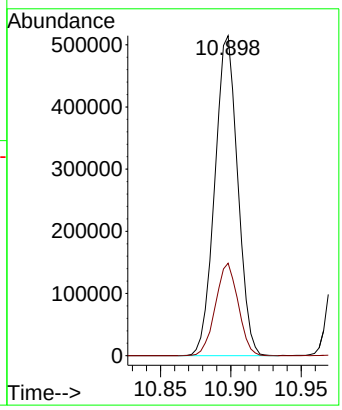




#71
2-Chlorotoluene
Concen: 8.306 ppbv
RT: 10.898 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Tgt Ion: 91 Resp: 58295

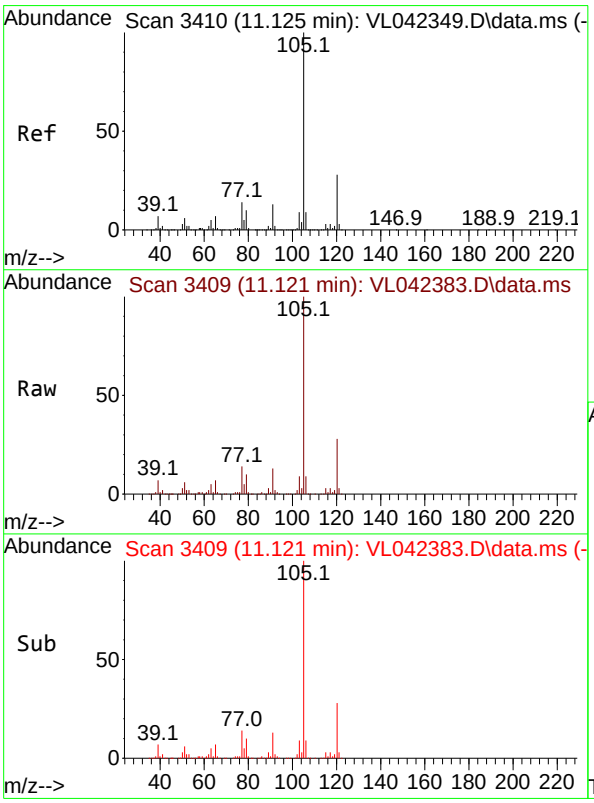
Ion	Ratio	Lower	Upper
91	100		
126	28.6	11.4	45.4



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

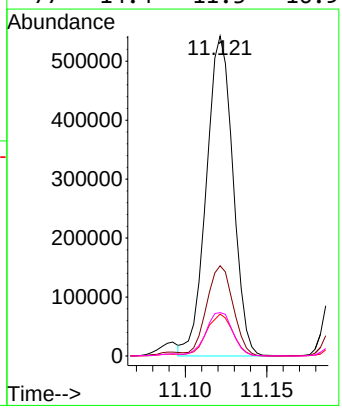
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025

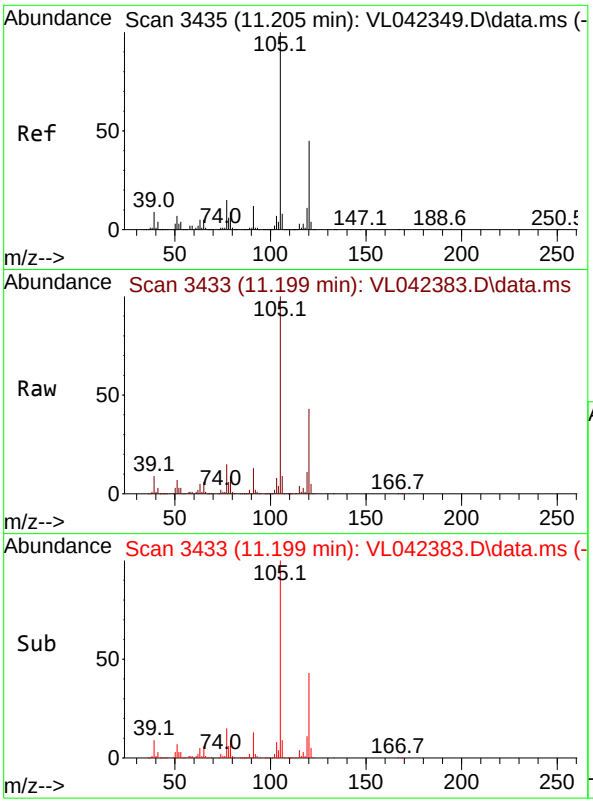


#72
4-Ethyltoluene
Concen: 8.256 ppbv
RT: 11.121 min Scan# 3409
Delta R.T. -0.003 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Tgt Ion:105 Resp: 615202

Ion	Ratio	Lower	Upper
105	100		
120	29.3	23.2	34.8
91	13.6	10.4	15.6
77	14.4	11.3	16.9

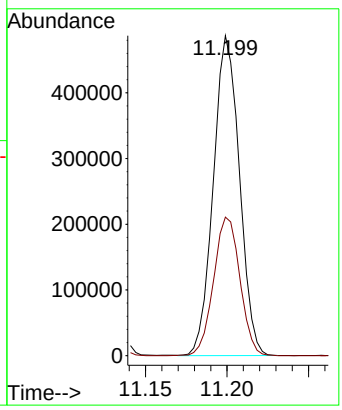




#73
1,3,5-Trimethylbenzene
Concen: 8.220 ppbv
RT: 11.199 min Scan# 34
Delta R.T. -0.006 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Tgt Ion:105 Resp: 54078

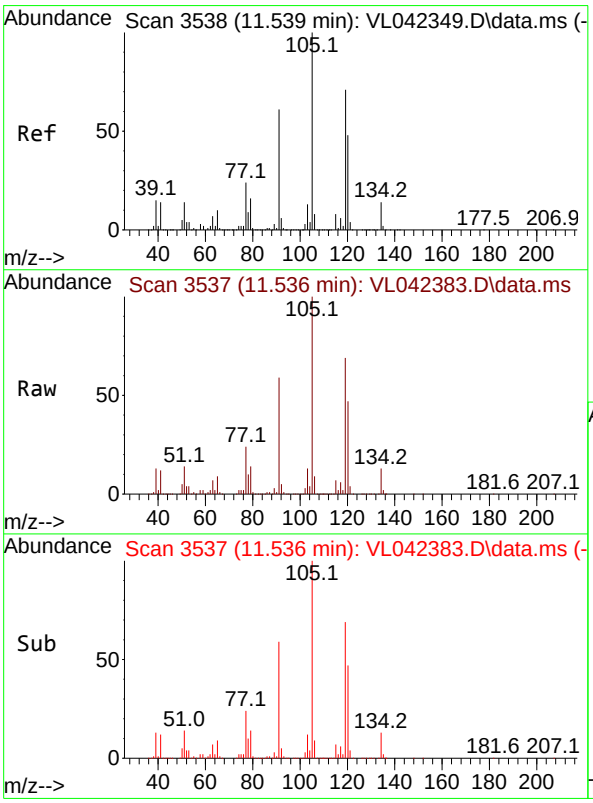
Ion	Ratio	Lower	Upper
105	100		
120	43.3	35.6	53.4



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

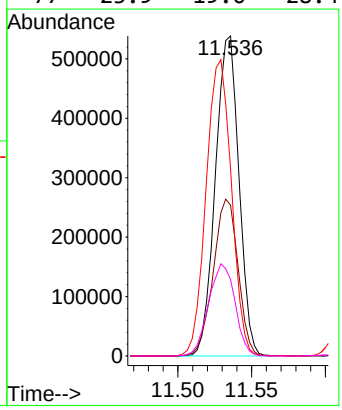
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025

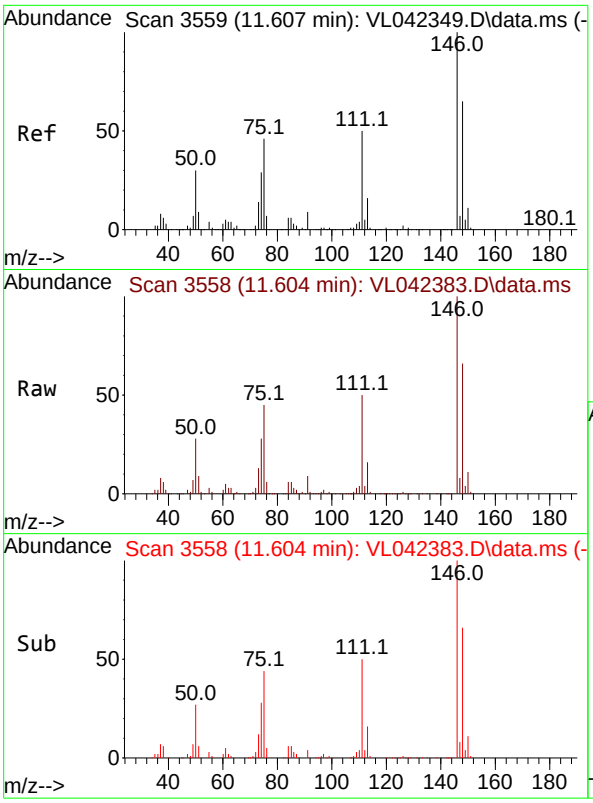


#74
1,2,4-Trimethylbenzene
Concen: 7.794 ppbv
RT: 11.536 min Scan# 3537
Delta R.T. -0.003 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Tgt Ion:105 Resp: 598825

Ion	Ratio	Lower	Upper
105	100		
120	47.1	38.1	57.1
91	58.6	48.8	73.2
77	23.9	19.0	28.4

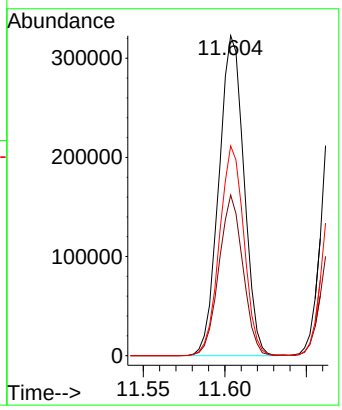




#75
1,3-Dichlorobenzene
Concen: 8.644 ppbv
RT: 11.604 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Tgt Ion:146 Resp: 34522

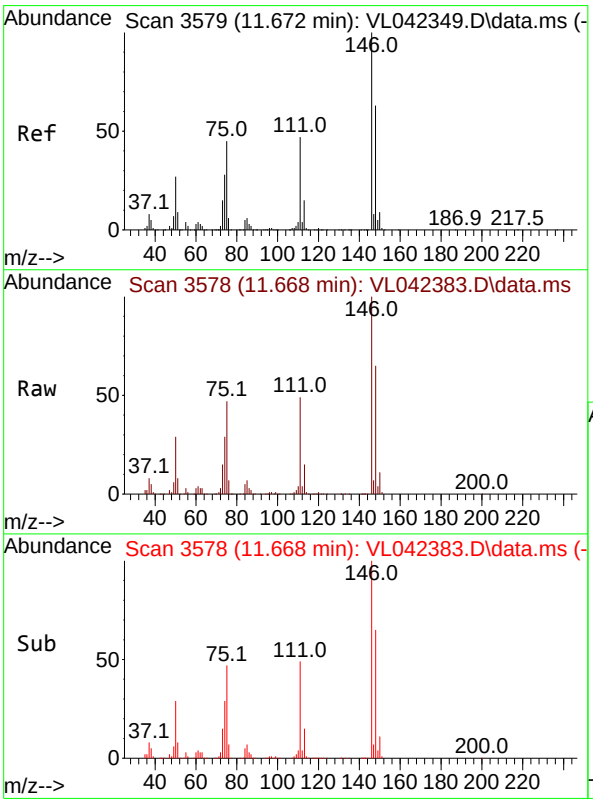
Ion	Ratio	Lower	Upper
146	100		
111	48.0	24.3	72.8
148	63.9	31.6	94.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

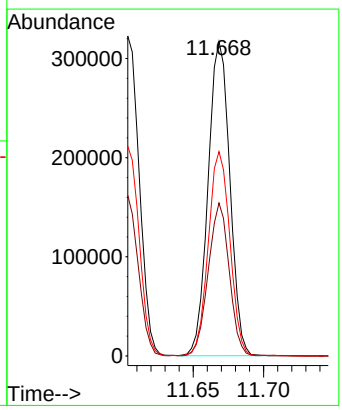
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025

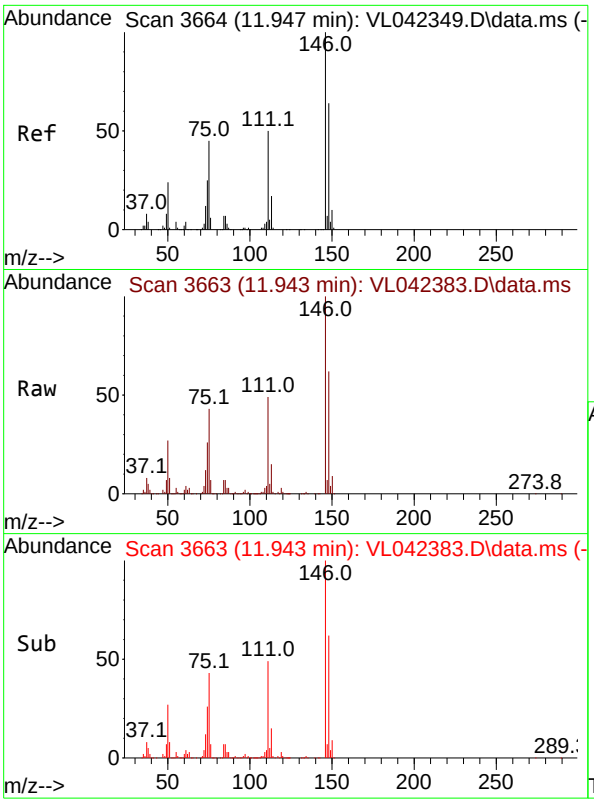


#76
1,4-Dichlorobenzene
Concen: 8.477 ppbv
RT: 11.668 min Scan# 3578
Delta R.T. -0.003 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Tgt Ion:146 Resp: 340293

Ion	Ratio	Lower	Upper
146	100		
111	47.1	24.2	72.6
148	64.7	32.1	96.5

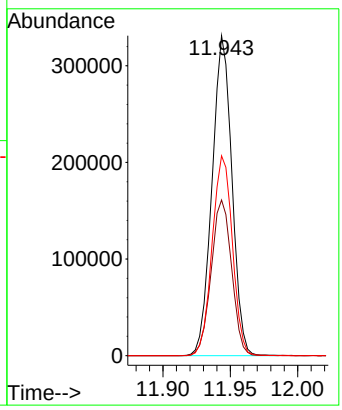




#77
1,2-Dichlorobenzene
Concen: 8.751 ppbv
RT: 11.943 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Tgt Ion:146 Resp: 33982

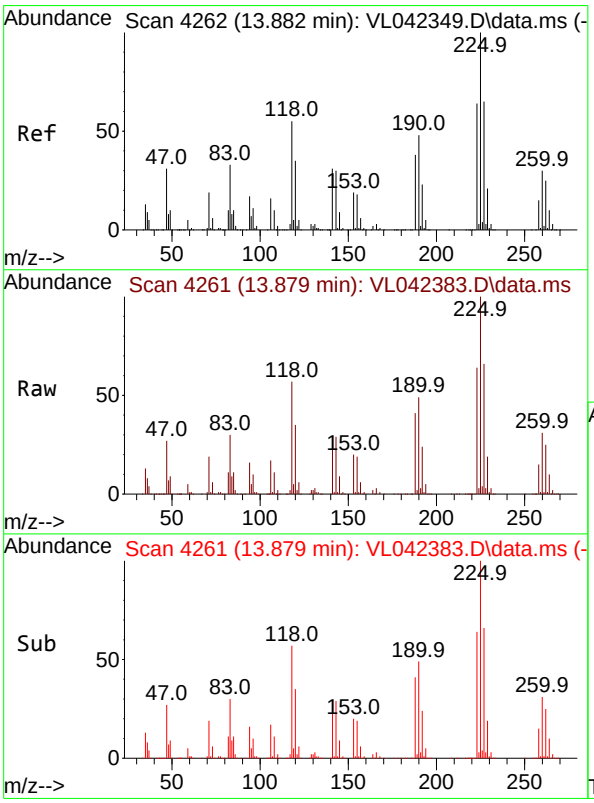
Ion	Ratio	Lower	Upper
146	100		
111	50.0	25.3	75.9
148	63.7	31.5	94.5



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

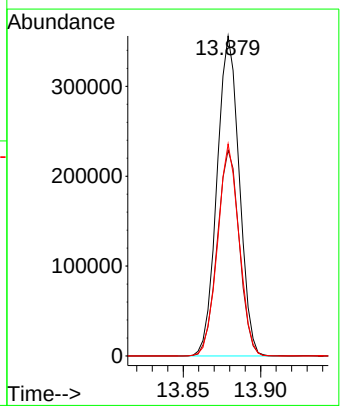
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025

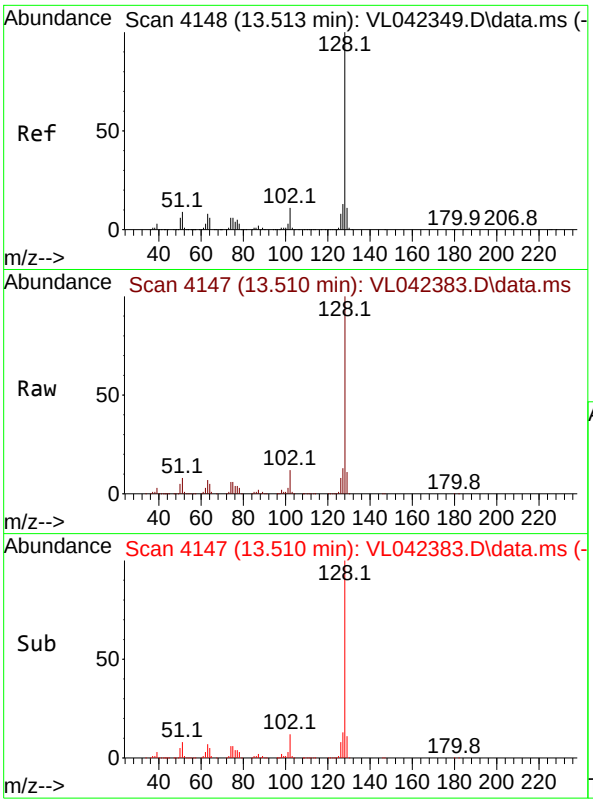


#78
Hexachloro-1,3-Butadiene
Concen: 9.061 ppbv
RT: 13.879 min Scan# 4261
Delta R.T. -0.003 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Tgt Ion:225 Resp: 355324

Ion	Ratio	Lower	Upper
225	100		
223	63.8	50.3	75.5
227	63.9	51.5	77.3

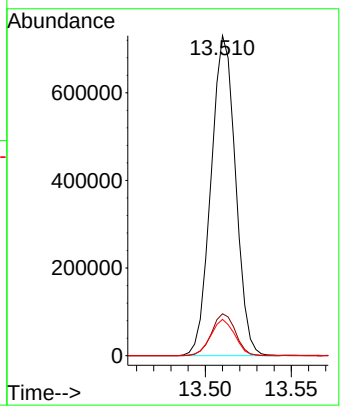




#79
Naphthalene
Concen: 7.884 ppbv
RT: 13.510 min Scan# 4
Delta R.T. -0.003 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Tgt Ion:128 Resp: 72436

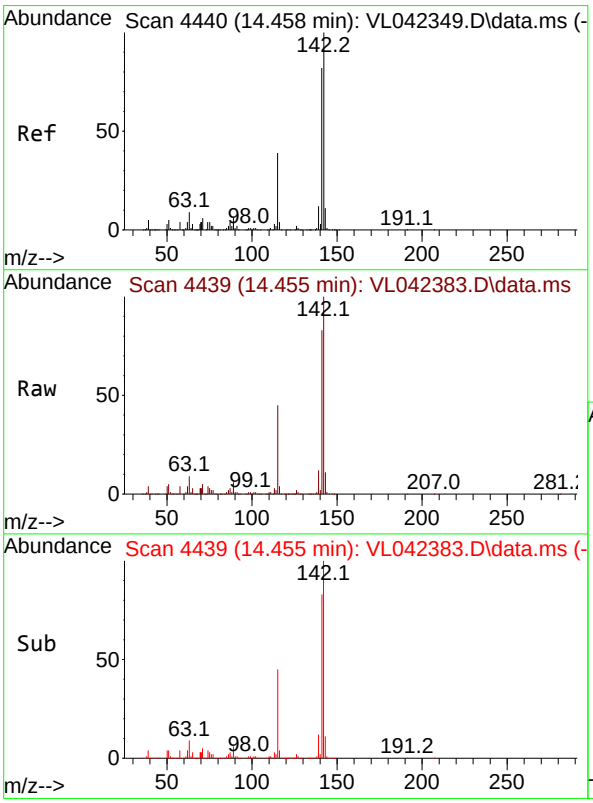
Ion	Ratio	Lower	Upper
128	100		
127	13.1	10.6	15.8
129	11.3	8.6	12.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

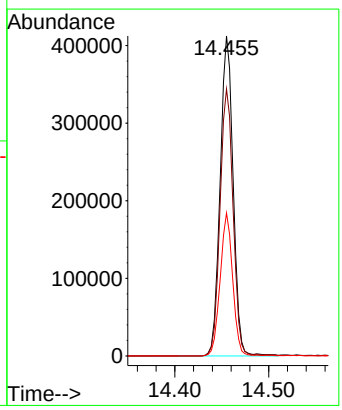
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025

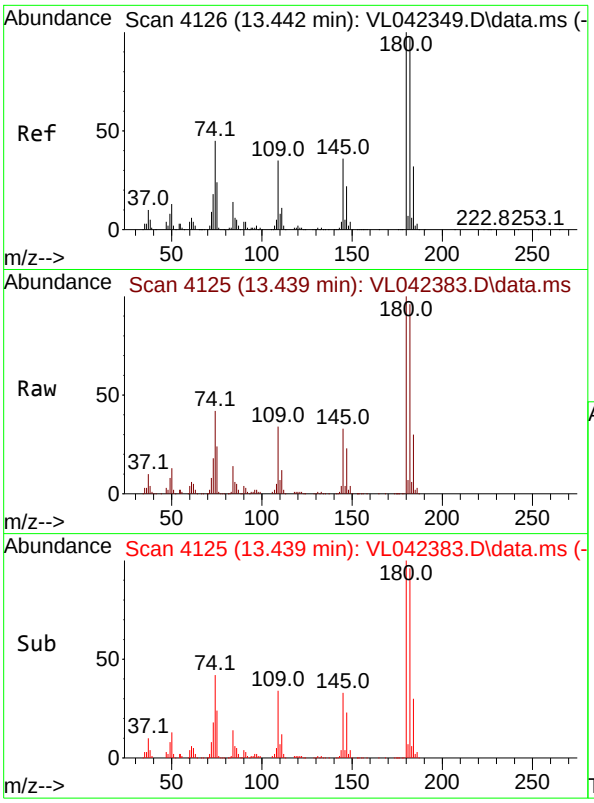


#80
Naphthalene,2-methyl-
Concen: 7.566 ppbv
RT: 14.455 min Scan# 4439
Delta R.T. -0.003 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Tgt Ion:142 Resp: 396207

Ion	Ratio	Lower	Upper
142	100		
141	84.8	66.8	100.2
115	43.4	33.4	50.2

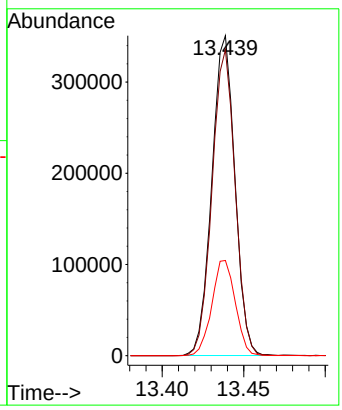




#81
1,2,4-Trichlorobenzene
Concen: 8.737 ppbv
RT: 13.439 min Scan# 4
Delta R.T. -0.003 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Tgt Ion:180 Resp: 34470

Ion	Ratio	Lower	Upper
180	100		
182	95.8	76.8	115.2
184	30.4	24.6	36.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025

Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041825\
Data File : VL042383.D
Acq On : 18 Apr 2025 10:23
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
LabSampleId :
VSTDCCC010

Quant Time: Apr 18 22:55:20 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	108	0.00
2	T	Dichlorodifluoromethane	1.767	1.674	5.3	109	0.00
3		Chlorodifluoromethane	1.682	1.437	14.6	99	0.00
4		Chloromethane	0.699	0.624	10.7	104	0.00
5	T	Vinyl Chloride	0.761	0.609	20.0	103	0.00
6	T	Bromomethane	0.327	0.291	11.0	104	0.00
7		Chloroethane	0.275	0.243	11.6	104	0.00
8	T	Dichlorotetrafluoroethane	1.517	1.422	6.3	108	0.00
9	T	Propene	0.766	0.585	23.6	92	0.00
10	T	Heptane	2.153	1.559	27.6	90	0.00
11	T	Trichlorofluoromethane	1.680	1.623	3.4	112	0.00
12	T	1,1,2-Trichlorotrifluoroeth	1.374	1.258	8.4	106	0.00
13		Ethanol	0.122	0.032#	73.8#	97	0.00
14	T	Bromoethene	0.518	0.489	5.6	108	0.00
15	T	Acetone	1.637	1.266	22.7	109	0.00
16	T	1,3-Butadiene	0.783	0.622	20.6	104	0.00
17		tert-Butyl alcohol	2.029	1.695	16.5	102	0.00
18	T	1,1-Dichloroethene	0.642	0.585	8.9	109	0.00
19	T	Isopropyl Alcohol	0.909	0.746	17.9	98	0.00
20	T	Methylene Chloride	0.641	0.484	24.5	106	0.00
21	T	Allyl Chloride	1.130	0.934	17.3	104	0.00
22	T	trans-1,2-Dichloroethene	0.731	0.653	10.7	107	0.00
23	T	Vinyl Acetate	0.663	0.472	28.8	92	0.00
24	T	1,1-Dichloroethane	1.388	1.276	8.1	108	0.00
25	T	Ethyl Acetate	4.036	3.247	19.5	96	0.00
26	T	Hexane	1.633	1.305	20.1	99	0.00
27	T	Carbon Disulfide	1.749	1.542	11.8	100	0.00
28	T	Methyl tert-Butyl Ether	1.070	0.901	15.8	104	0.00
29	T	Chloroform	2.309	2.183	5.5	110	0.00
30	T	Cyclohexane	1.320	1.145	13.3	99	0.00
31	T	cis-1,2-Dichloroethene	1.553	1.398	10.0	104	0.00
32	T	1,1,1-Trichloroethane	2.599	2.364	9.0	113	0.00
33	I	1,4-Difluorobenzene	1.000	1.000	0.0	117	0.00
34	T	2-Butanone	0.791	0.583	26.3	99	0.00
35	T	Carbon Tetrachloride	0.905	0.787	13.0	119	0.00
36	T	Benzene	1.079	0.846	21.6	98	0.00
37	T	1,2-Dichloroethane	0.647	0.559	13.6	110	0.00
38	T	Trichloroethene	0.471	0.375	20.4	111	0.00
39	T	1,2-Dichloropropane	0.402	0.300	25.4	95	0.00
40	T	1,4-Dioxane	0.221	0.154	30.3#	99	0.00
41	T	Tetrahydrofuran	0.461	0.322	30.2#	92	0.00
42	T	Bromodichloromethane	0.901	0.778	13.7	106	0.00
43		Methyl Methacrylate	0.486	0.345	29.0	94	0.00
44	T	2,2,4-Trimethylpentane	1.863	1.374	26.2	94	-0.01
45	T	t-1,3-Dichloropropene	0.497	0.385	22.5	98	-0.01
46	T	cis-1,3-Dichloropropene	0.608	0.470	22.7	96	0.00
47	T	1,1,2-Trichloroethane	0.410	0.336	18.0	104	0.00
48	T	Dibromochloromethane	0.723	0.646	10.7	111	0.00

Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041825\
Data File : VL042383.D
Acq On : 18 Apr 2025 10:23
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
LabSampleId :
VSTDCCC010

Quant Time: Apr 18 22:55:20 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	0.575	9.2	109	0.00
50	T	4-Methyl-2-Pentanone	1.314	0.854	35.0#	92	0.00
51	T	2-Hexanone	1.179	0.692	41.3#	90	0.00
52	T	Tetrachloroethene	0.417	0.323	22.5	106	0.00
53	T	Toluene	1.294	1.021	21.1	100	0.00
54	T	1,2-Dibromoethane	0.586	0.489	16.6	106	0.00
55	I	Chlorobenzene-d5	1.000	1.000	0.0	112	0.00
56		1,1,1,2-Tetrachloroethane	0.605	0.547	9.6	112	0.00
57	T	Chlorobenzene	1.040	0.896	13.8	105	0.00
58	T	Ethyl Benzene	1.981	1.636	17.4	100	0.00
59	T	m/p-Xylene	1.596	1.335	16.4	103	0.00
60	T	o-Xylene	1.607	1.332	17.1	104	0.00
61	T	Styrene	0.767	0.633	17.5	98	0.00
62		Isopropylbenzene	2.360	1.987	15.8	103	0.00
63	T	1,1,2,2-Tetrachloroethane	1.042	0.783	24.9	101	0.00
64		n-propylbenzene	0.593	0.506	14.7	105	0.00
65		tert-Butylbenzene	2.169	1.815	16.3	107	0.00
66	T	Benzyl Chloride	0.238	0.159	33.2#	72	0.00
67		sec-Butylbenzene	3.017	2.502	17.1	105	0.00
68	S	1-Bromo-4-Fluorobenzene	0.822	0.815	0.9	110	0.00
69		p-Isopropyltoluene	2.621	2.179	16.9	106	0.00
70		n-Butylbenzene	2.730	2.195	19.6	104	0.00
71		2-Chlorotoluene	1.851	1.537	17.0	102	0.00
72	T	4-Ethyltoluene	1.965	1.622	17.5	103	0.00
73	T	1,3,5-Trimethylbenzene	1.735	1.426	17.8	105	0.00
74	T	1,2,4-Trimethylbenzene	2.026	1.579	22.1	106	0.00
75	T	1,3-Dichlorobenzene	1.053	0.910	13.6	108	0.00
76	T	1,4-Dichlorobenzene	1.059	0.897	15.3	107	0.00
77	T	1,2-Dichlorobenzene	1.024	0.896	12.5	111	0.00
78	T	Hexachloro-1,3-Butadiene	1.034	0.937	9.4	122	0.00
79	T	Naphthalene	2.423	1.910	21.2	107	0.00
80	T	Naphthalene,2-methyl-	1.381	1.045	24.3	105	0.00
81	T	1,2,4-Trichlorobenzene	1.040	0.909	12.6	113	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

QC SAMPLE DATA

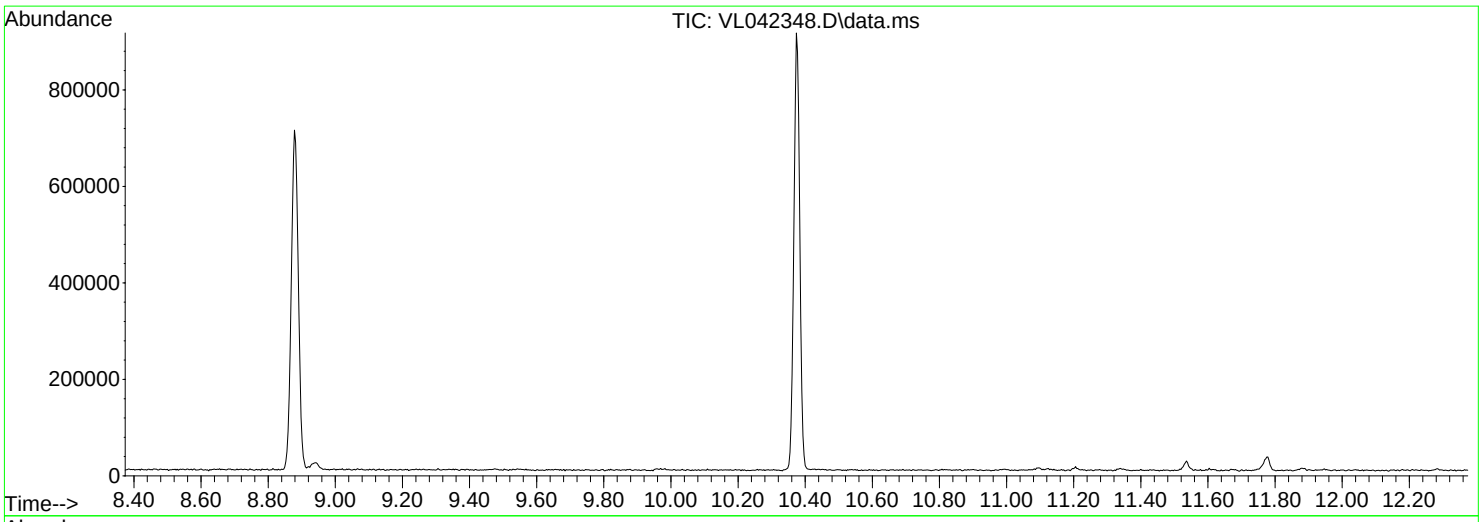
BFB

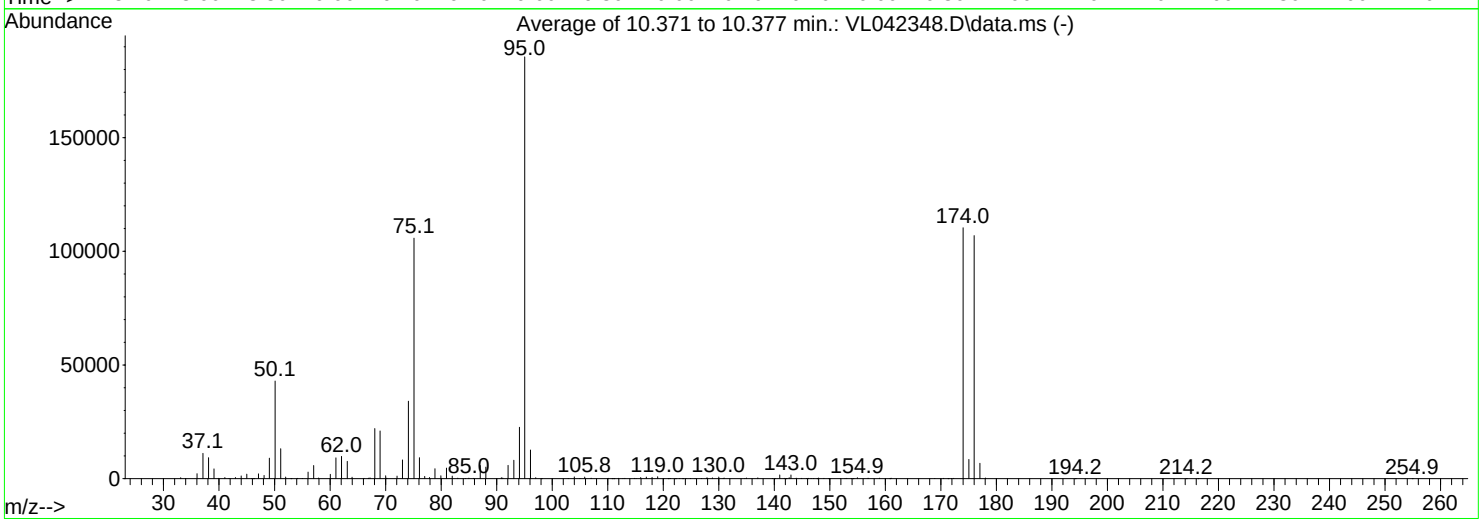
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042348.D
Acq On : 17 Apr 2025 07:50
Operator : SY/MD
Sample : BFB
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

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

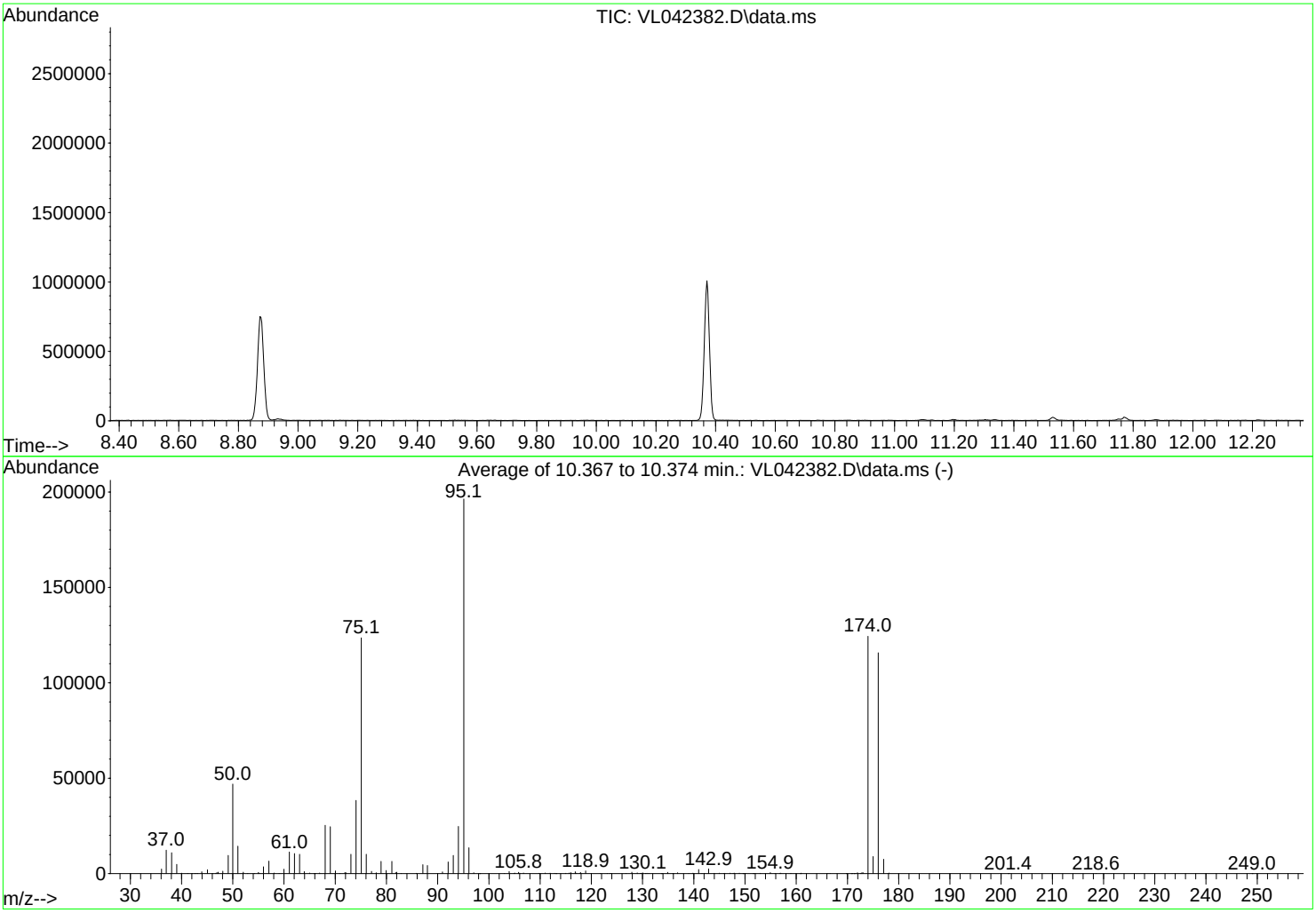
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	23.1	42933	PASS
75	95	30	66	57.0	105781	PASS
95	95	100	100	100.0	185564	PASS
96	95	5	9	6.8	12627	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	59.5	110360	PASS
175	174	4	9	7.6	8420	PASS
176	174	93	101	96.9	106933	PASS
177	176	5	9	6.3	6744	PASS

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041825\
Data File : VL042382.D
Acq On : 18 Apr 2025 07:51
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 3176, 3177, 3178; 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	23.9	46915	PASS
75	95	30	66	62.9	123587	PASS
95	95	100	100	100.0	196331	PASS
96	95	5	9	6.9	13533	PASS
173	174	0.00	2	0.5	606	PASS
174	95	50	120	63.4	124411	PASS
175	174	4	9	7.2	8959	PASS
176	174	93	101	93.0	115728	PASS
177	176	5	9	6.5	7500	PASS

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:	VL0417ABL01	SDG No.:	Q1726
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
64-17-5	Ethanol	0.32	0.60	U	0.60	0.94	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
593-60-2	Bromoethene	0.12	0.52	U	0.52	2.19	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
67-63-0	Isopropyl Alcohol	0.070	0.17	U	0.17	1.23	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

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:	VL0417ABL01	SDG No.:	Q1726
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
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
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			

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:	VL0417ABL01	SDG No.:	Q1726
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

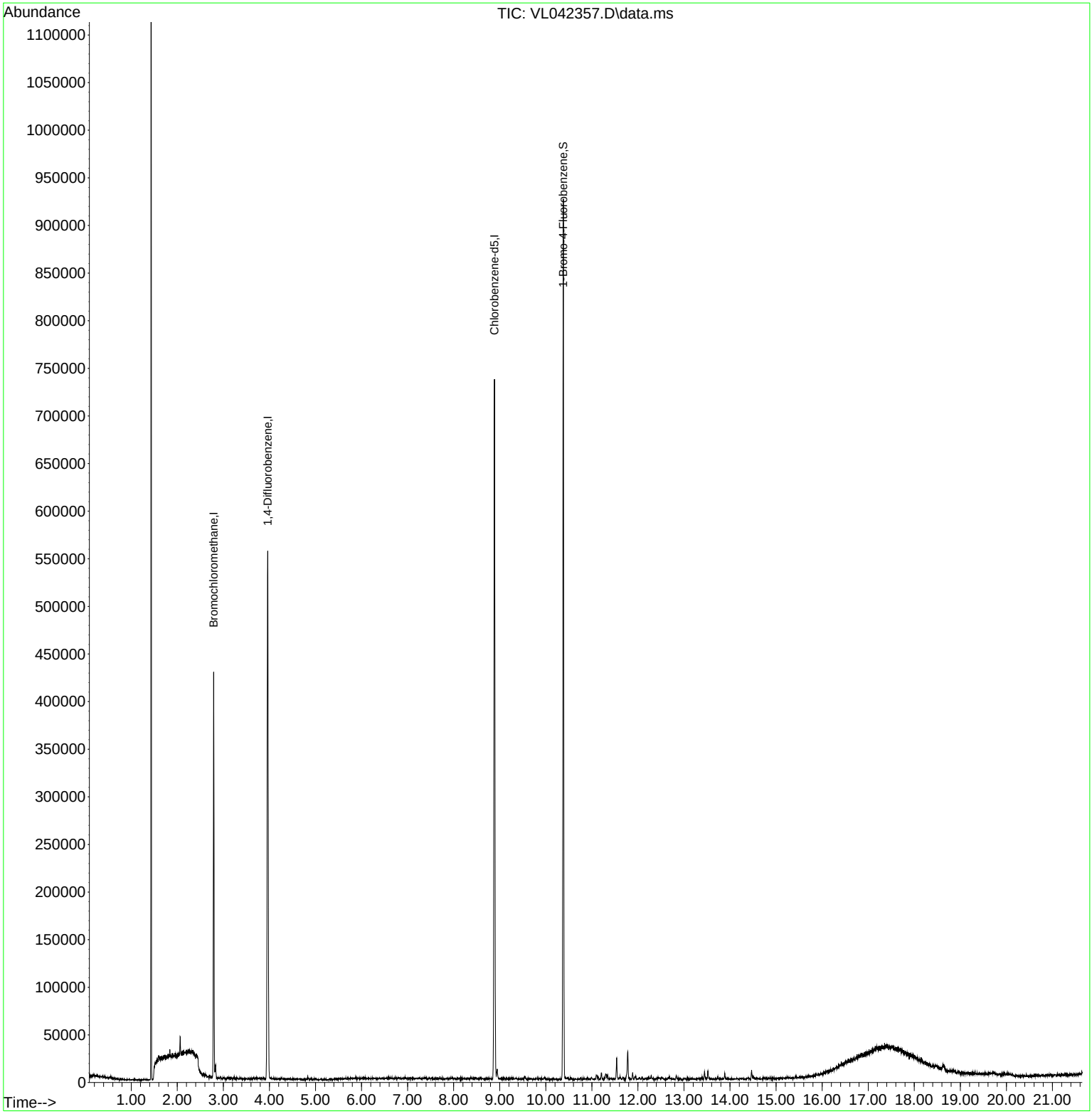
(#) = qualifier out of range (m) = manual integration (+) = signals summed

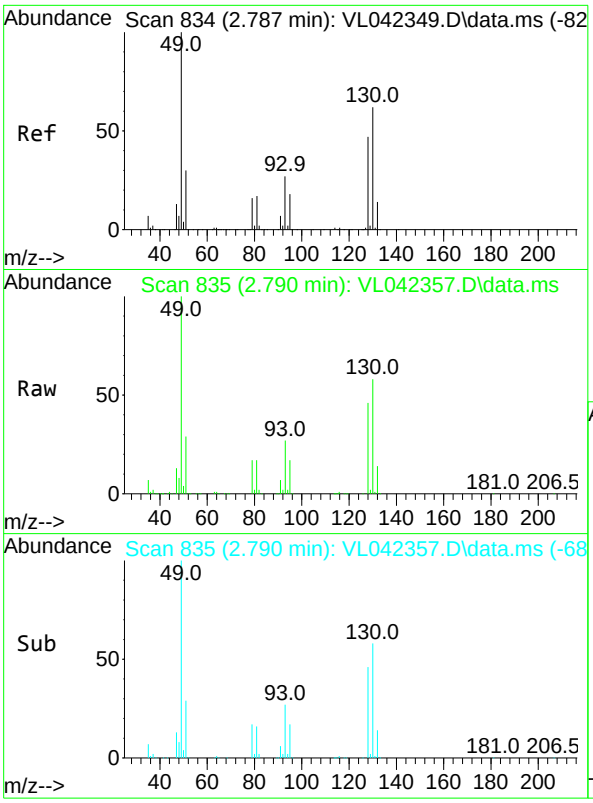
Quantitation Report (LSC Reviewed)

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



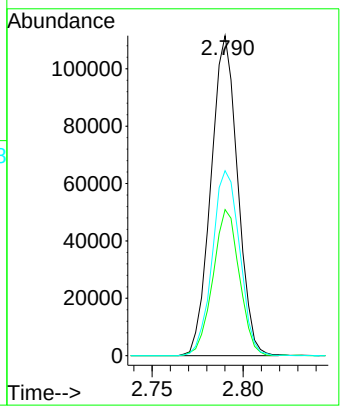


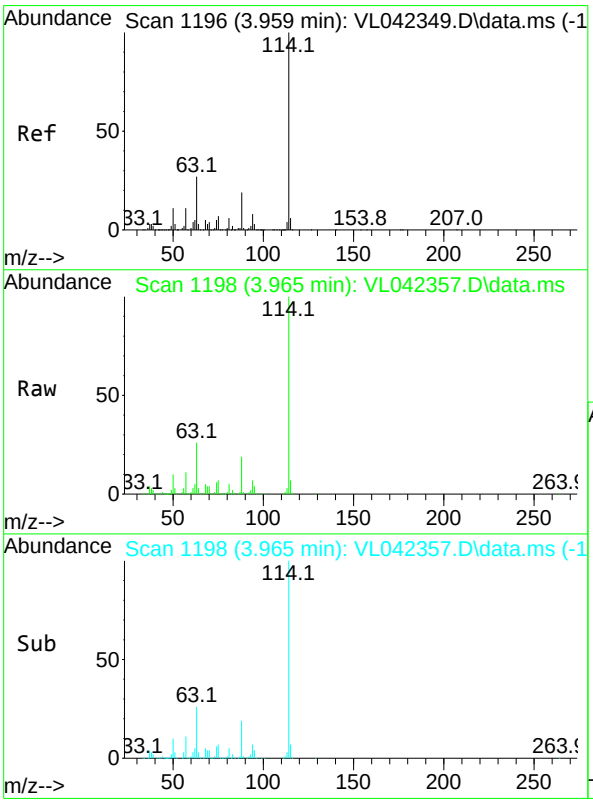
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042357.D
Acq: 17 Apr 2025 14:23

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

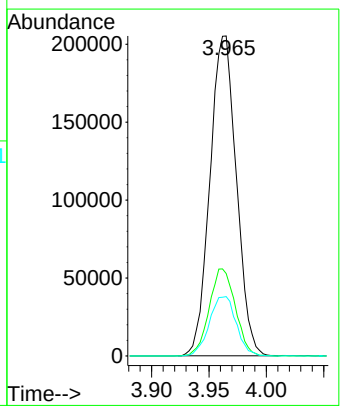


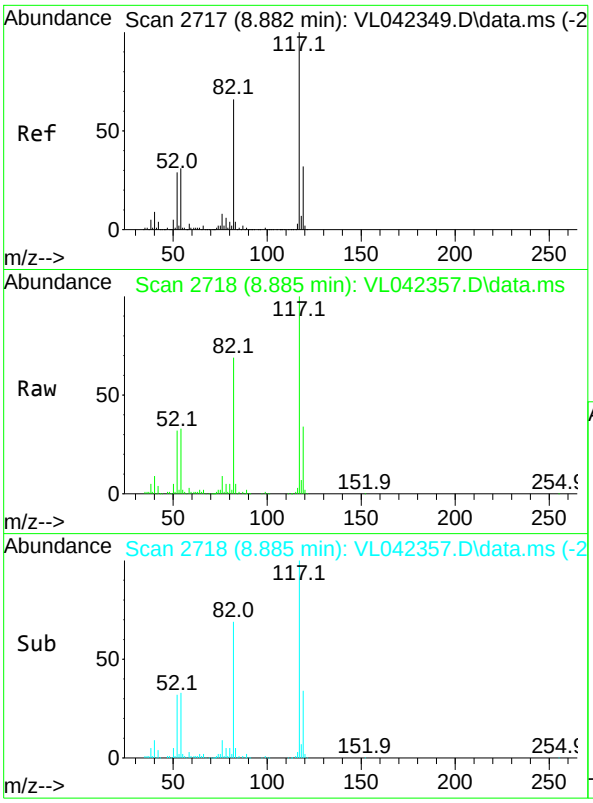


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.965 min Scan# 1198
Delta R.T. 0.006 min
Lab File: VL042357.D
Acq: 17 Apr 2025 14:23

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



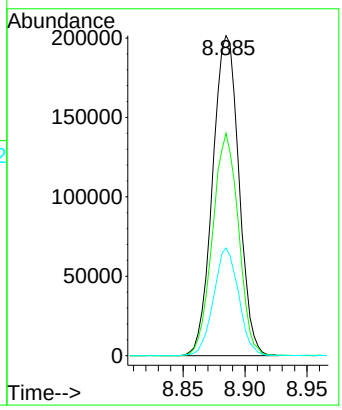


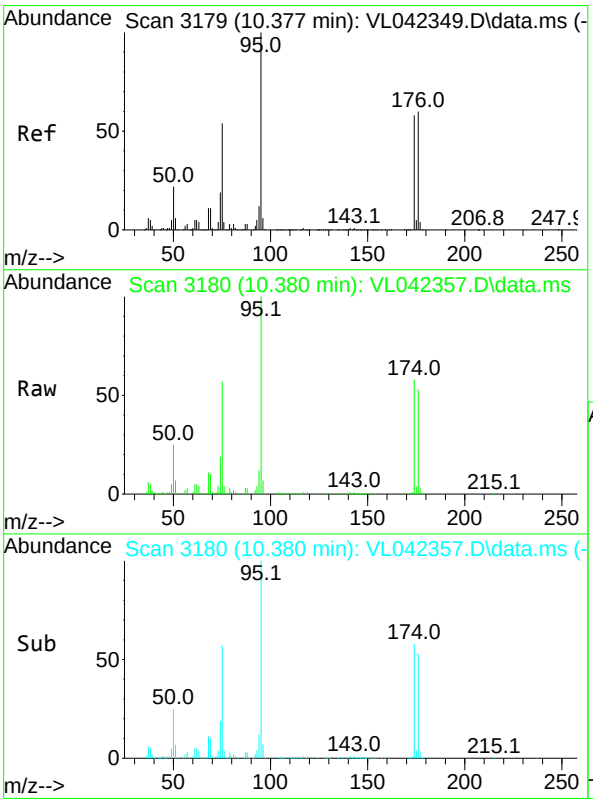
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.885 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042357.D
Acq: 17 Apr 2025 14:23

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

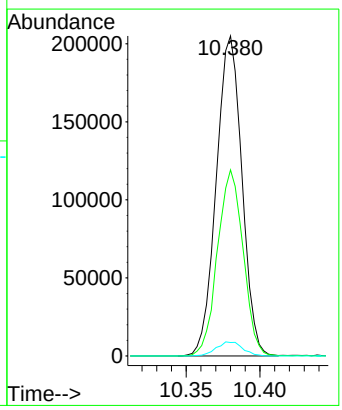




#68
1-Bromo-4-Fluorobenzene
Concen: 10.139 ppbv
RT: 10.380 min Scan# 3180
Delta R.T. 0.003 min
Lab File: VL042357.D
Acq: 17 Apr 2025 14:23

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%

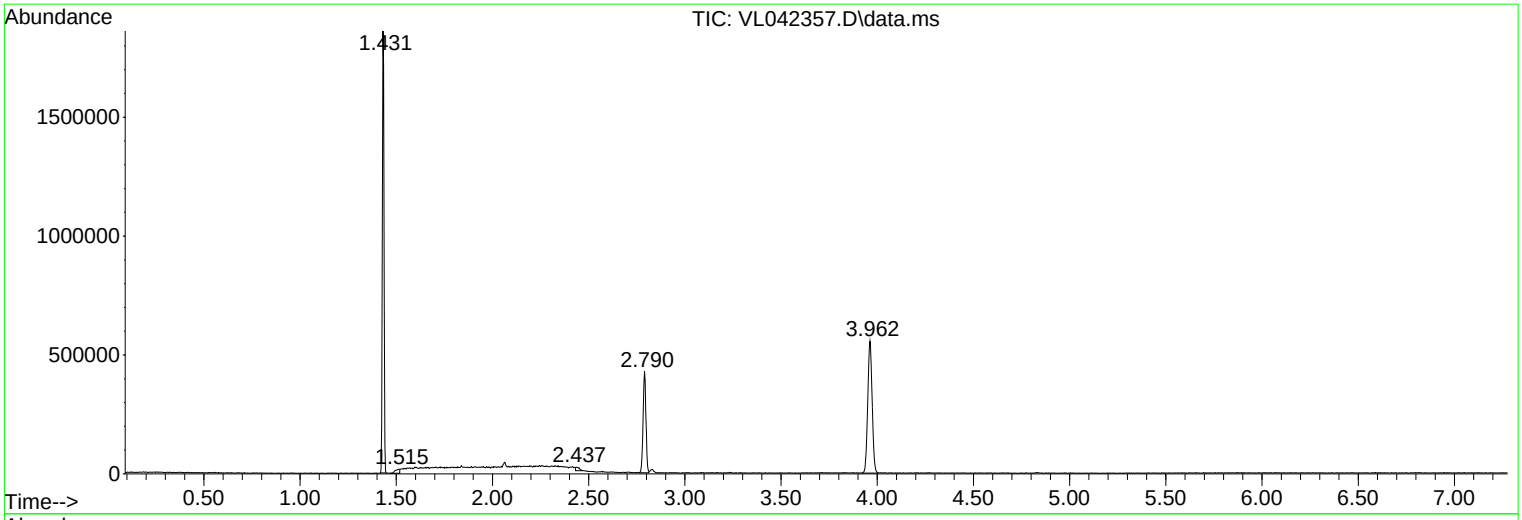
Sum of corrected areas: 4767867

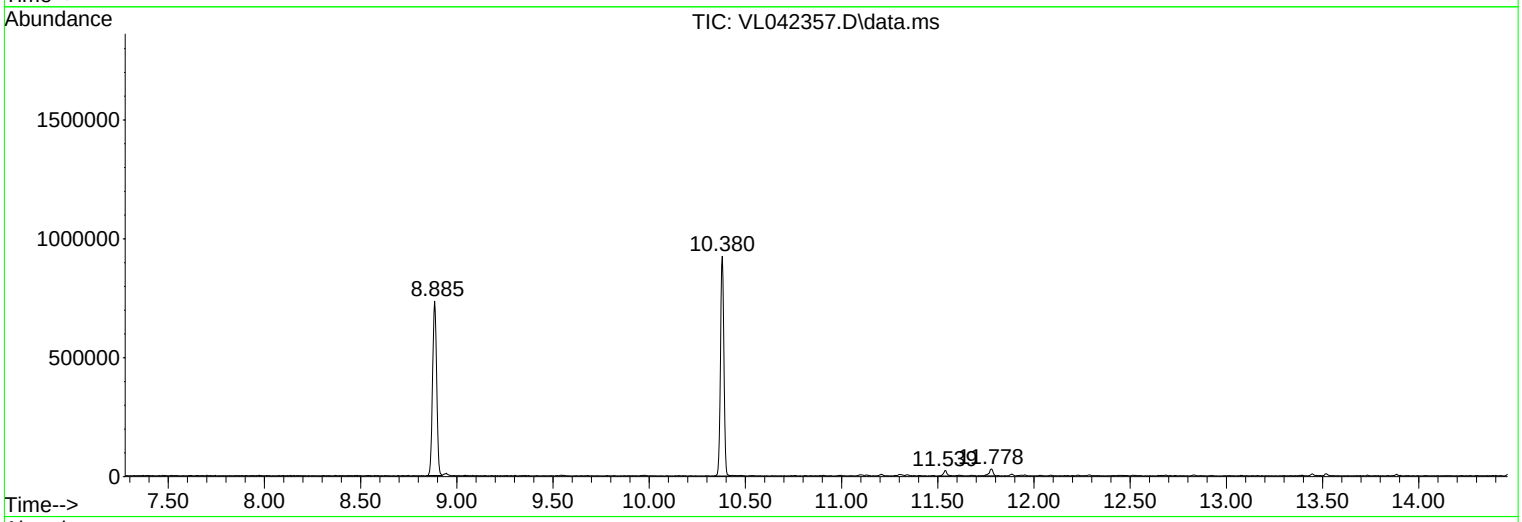
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042357.D
Acq On : 17 Apr 2025 14:23
Operator : SY/MD
Sample : VL0417ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

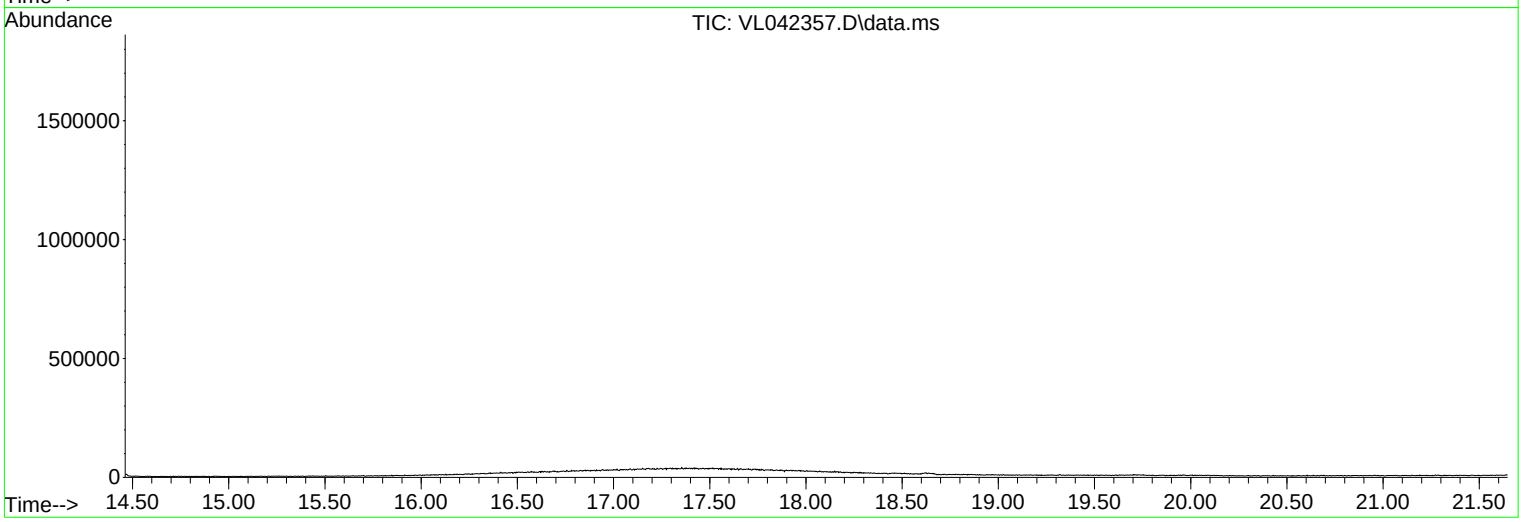
Instrument :
MSVOA_L
ClientSampleId :
VL0417ABL01

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:	VL0418ABL01	SDG No.:	Q1726
Lab Sample ID:	VL0418ABL01	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
VL042384.D	1		04/18/25 10:54	VL041825

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
64-17-5	Ethanol	0.32	0.60	U	0.60	0.94	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
593-60-2	Bromoethene	0.12	0.52	U	0.52	2.19	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
67-63-0	Isopropyl Alcohol	0.070	0.17	U	0.17	1.23	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

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:	VL0418ABL01	SDG No.:	Q1726
Lab Sample ID:	VL0418ABL01	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
VL042384.D	1		04/18/25 10:54	VL041825

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
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
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	9.80			70 (65) - 130 (135)	98%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	137000		2.784			
540-36-3	1,4-Difluorobenzene	426000		3.955			
3114-55-4	Chlorobenzene-d5	379000		8.878			

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:	VL0418ABL01	SDG No.:	Q1726
Lab Sample ID:	VL0418ABL01	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
VL042384.D	1		04/18/25 10:54	VL041825

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/LSC Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041825\
Data File : VL042384.D
Acq On : 18 Apr 2025 10:54
Operator : SY/MD
Sample : VL0418ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0418ABL01

Quant Time: Apr 18 22:56:14 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

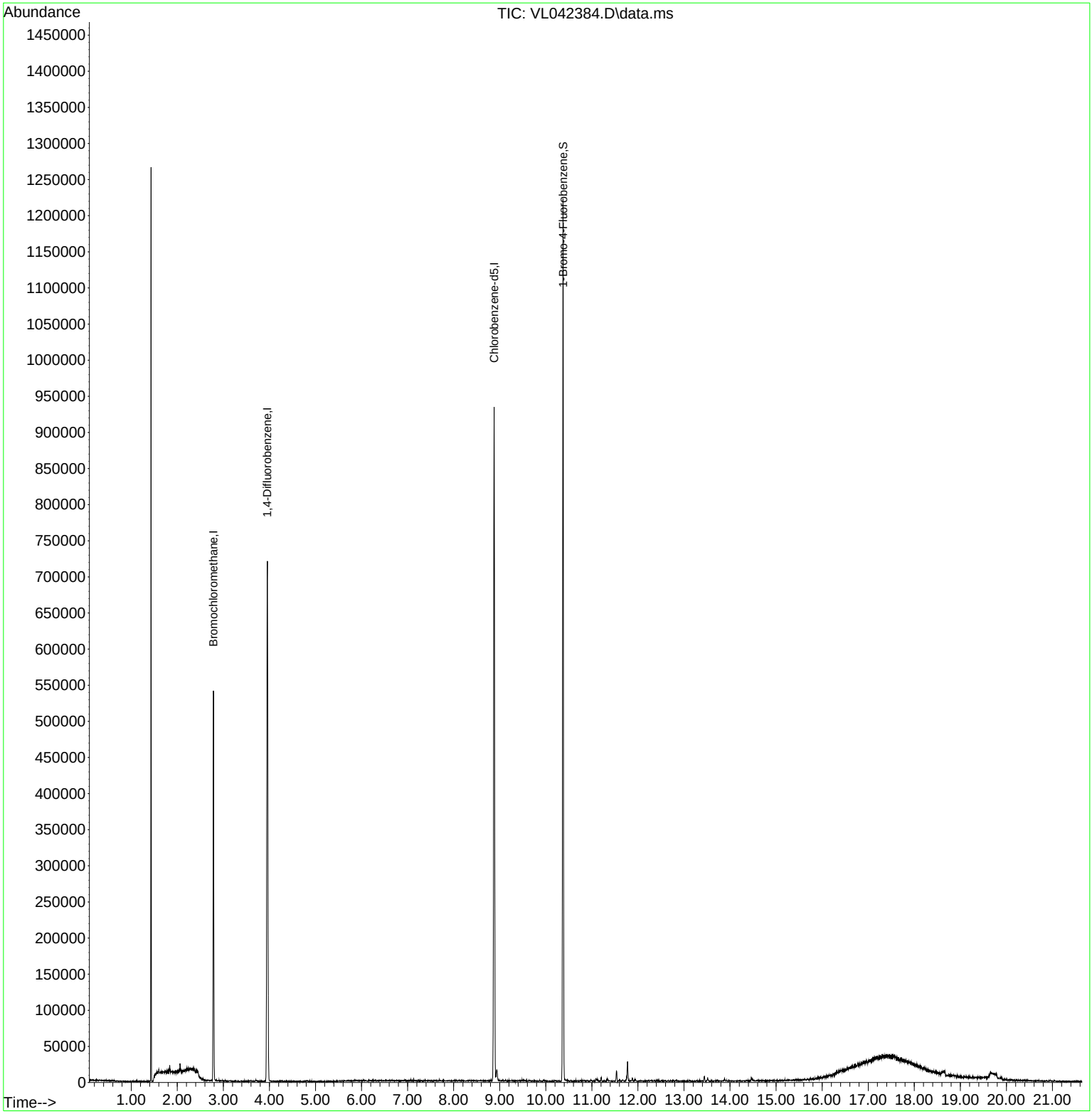
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.784	49	137116	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.955	114	425910	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.878	117	379163	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	304890	9.785	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 97.900%			
Target Compounds						Qvalue

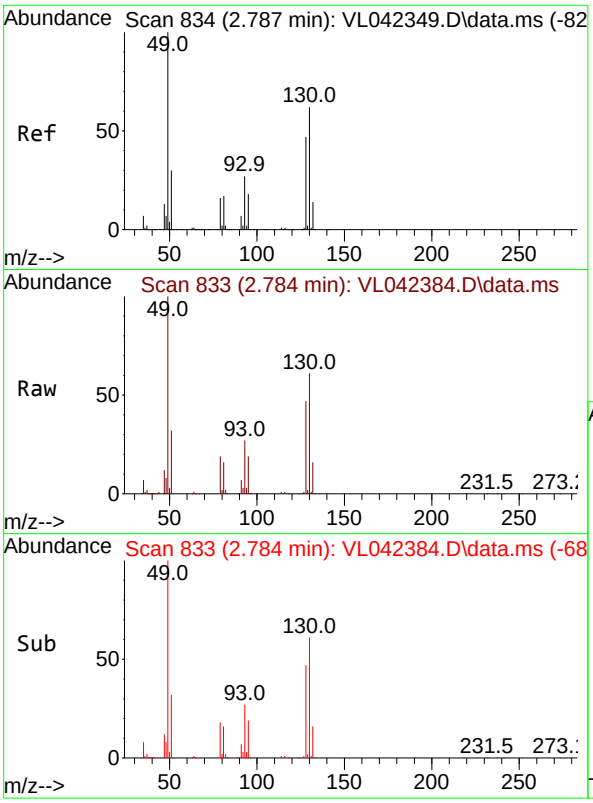
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041825\
Data File : VL042384.D
Acq On : 18 Apr 2025 10:54
Operator : SY/MD
Sample : VL0418ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0418ABL01

Quant Time: Apr 18 22:56:14 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



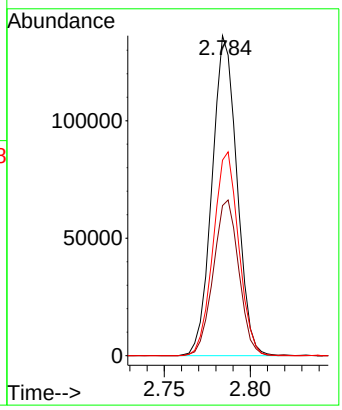


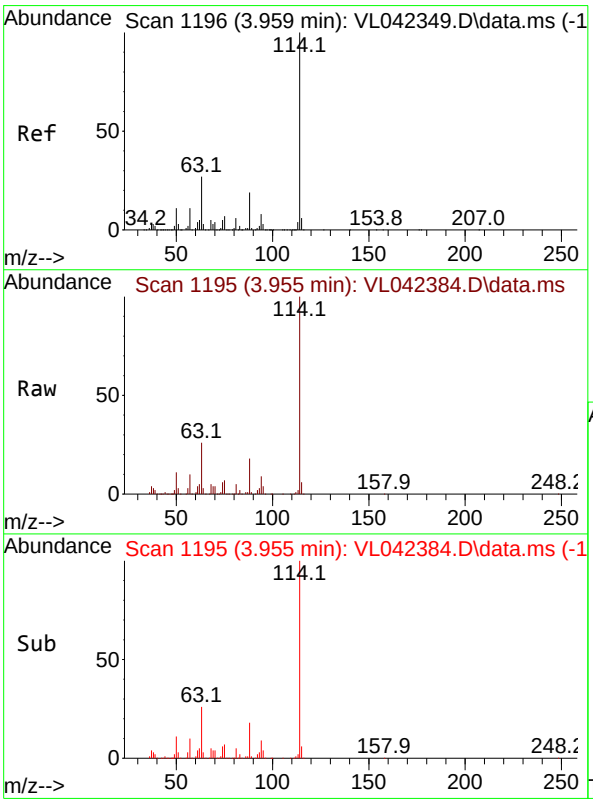
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 8
Delta R.T. -0.003 min
Lab File: VL042384.D
Acq: 18 Apr 2025 10:54

Instrument :
MSVOA_L
ClientSampleId :
VL0418ABL01

Tgt Ion: 49 Resp: 137116

Ion	Ratio	Lower	Upper
49	100		
128	49.8	22.8	68.4
130	65.2	29.3	88.0

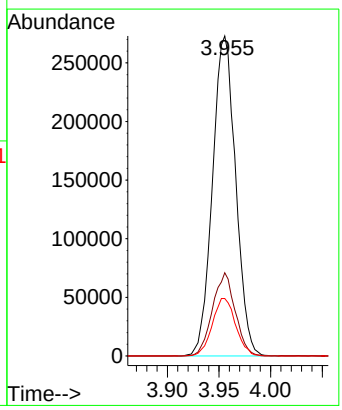


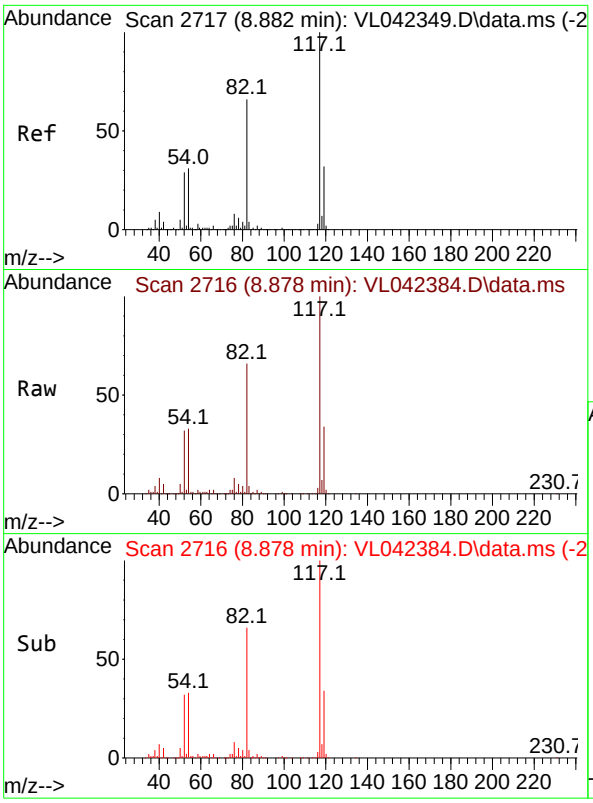


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.955 min Scan# 1195
Delta R.T. -0.003 min
Lab File: VL042384.D
Acq: 18 Apr 2025 10:54

Tgt Ion:114 Resp: 425910

Ion	Ratio	Lower	Upper
114	100		
63	25.5	21.8	32.6
88	18.1	15.5	23.3



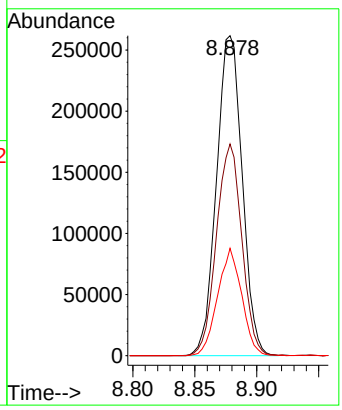


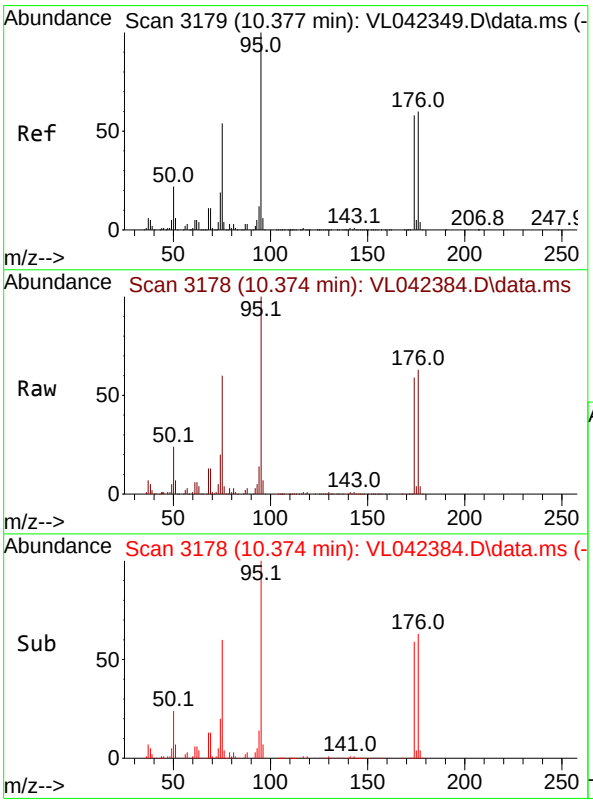
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.878 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL042384.D
Acq: 18 Apr 2025 10:54

Instrument :
MSVOA_L
ClientSampleId :
VL0418ABL01

Tgt Ion:117 Resp: 379163

Ion	Ratio	Lower	Upper
117	100		
82	65.4	57.8	86.6
119	31.4	25.2	37.8

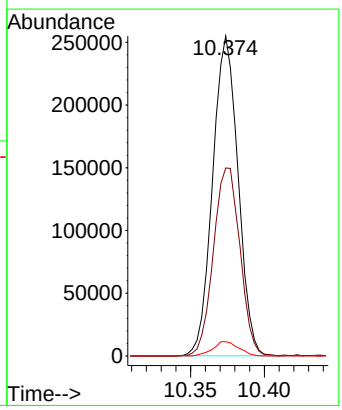




#68
1-Bromo-4-Fluorobenzene
Concen: 9.785 ppbv
RT: 10.374 min Scan# 3178
Delta R.T. -0.003 min
Lab File: VL042384.D
Acq: 18 Apr 2025 10:54

Tgt Ion: 95 Resp: 304890

Ion	Ratio	Lower	Upper
95	100		
174	61.8	48.5	72.7
175	4.6	3.7	5.5



LSC Area Percent Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041825\
Data File : VL042384.D
Acq On : 18 Apr 2025 10:54
Operator : SY/MD
Sample : VL0418ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0418ABL01

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: VL042384.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	419	rBV	1265090	704975	48.50%	13.352%
2	2.784	825	833	843	rBV	540110	563773	38.79%	10.677%
3	3.955	1181	1195	1212	rBV	720775	1132512	77.92%	21.449%
4	8.878	2702	2716	2726	rBV	932980	1346789	92.66%	25.507%
5	8.937	2726	2734	2743	rVB3	14568	25907	1.78%	0.491%
6	10.374	3166	3178	3189	rBV	1221965	1453470	100.00%	27.528%
7	11.536	3528	3537	3544	rVB6	15182	20616	1.42%	0.390%
8	11.775	3600	3611	3618	rVB4	26764	31990	2.20%	0.606%

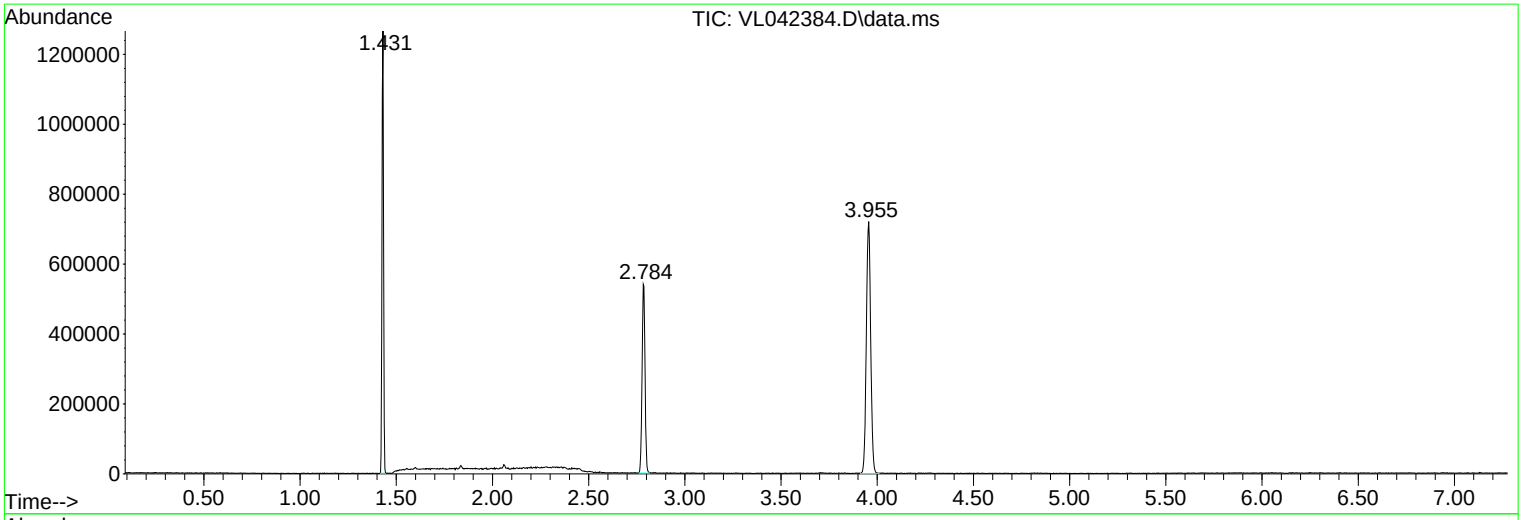
Sum of corrected areas: 5280032

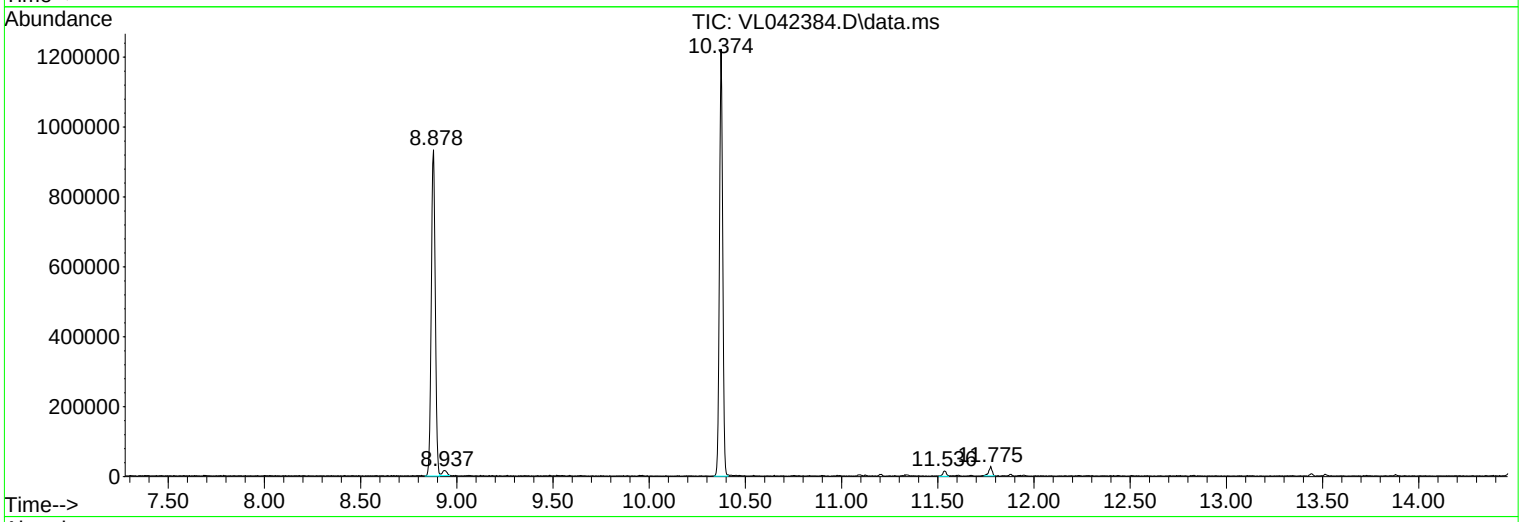
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041825\
Data File : VL042384.D
Acq On : 18 Apr 2025 10:54
Operator : SY/MD
Sample : VL0418ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

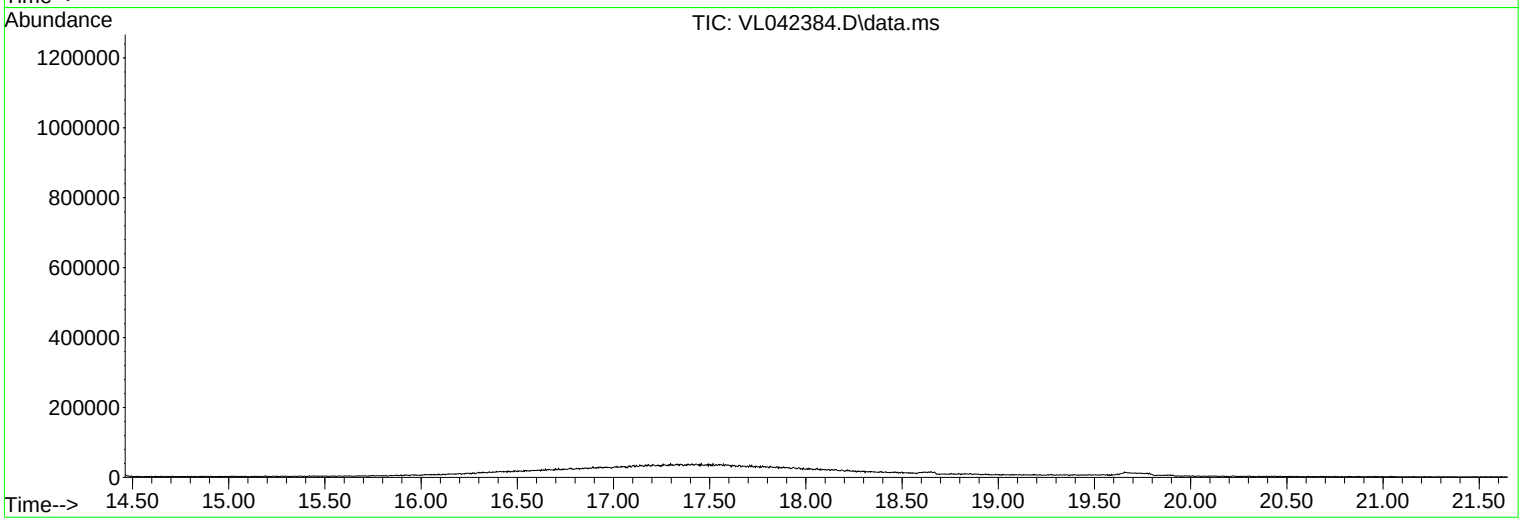
Instrument :
MSVOA_L
ClientSampleId :
VL0418ABL01

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\VL041825\
Data File : VL042384.D
Acq On : 18 Apr 2025 10:54
Operator : SY/MD
Sample : VL0418ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0418ABL01

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\VL041825\
Data File : VL042384.D
Acq On : 18 Apr 2025 10:54
Operator : SY/MD
Sample : VL0418ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0418ABL01

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.:	Q1726
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
64-17-5	Ethanol	3.20	6.03		0.60	0.94	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
593-60-2	Bromoethene	9.80	42.9		0.52	2.19	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
67-63-0	Isopropyl Alcohol	9.40	23.1		0.17	1.23	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

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.:	Q1726
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
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
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			

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.:	Q1726
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
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

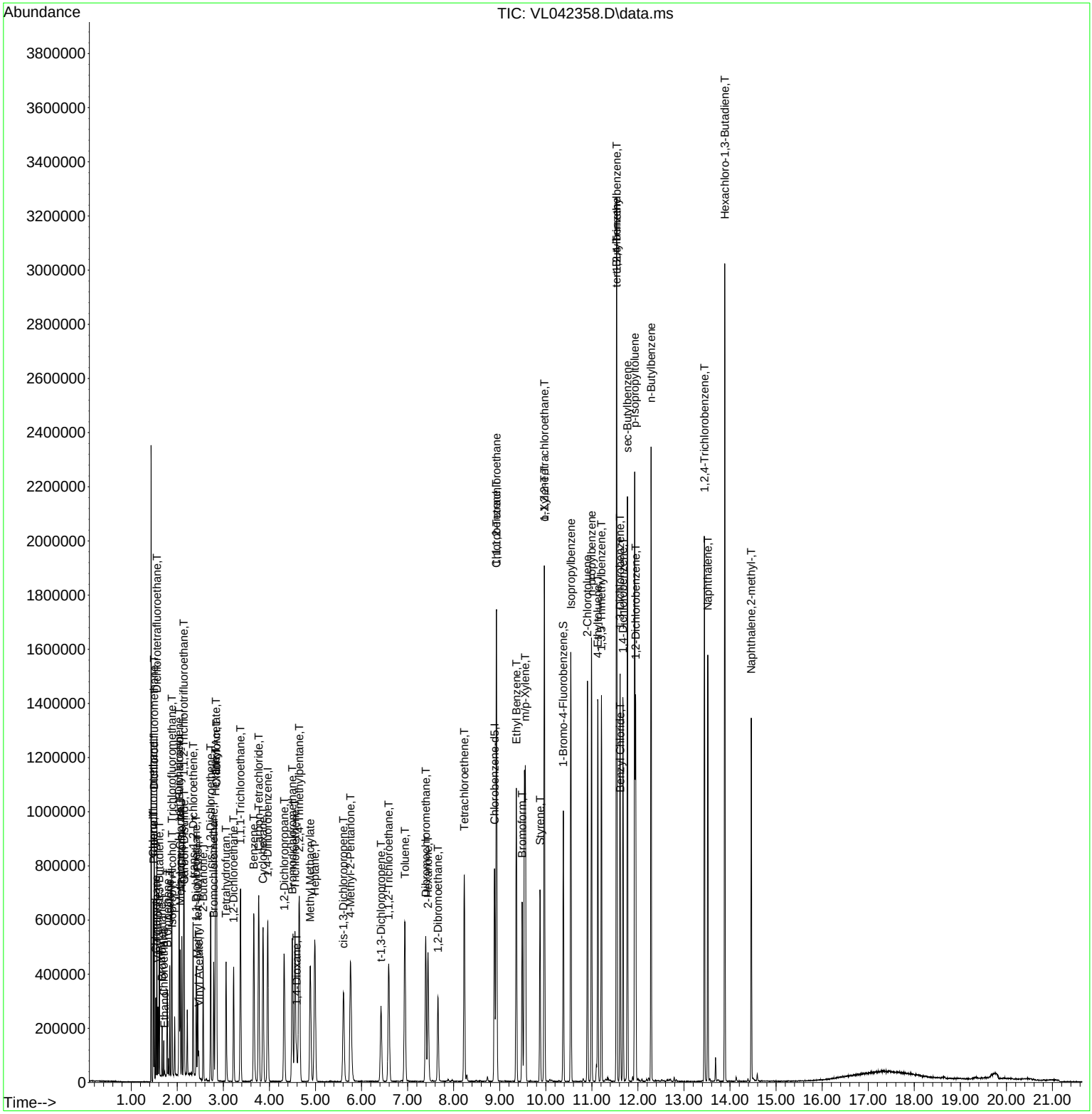
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042358.D
Acq On : 17 Apr 2025 15:39
Operator : SY/MD
Sample : VL0417ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

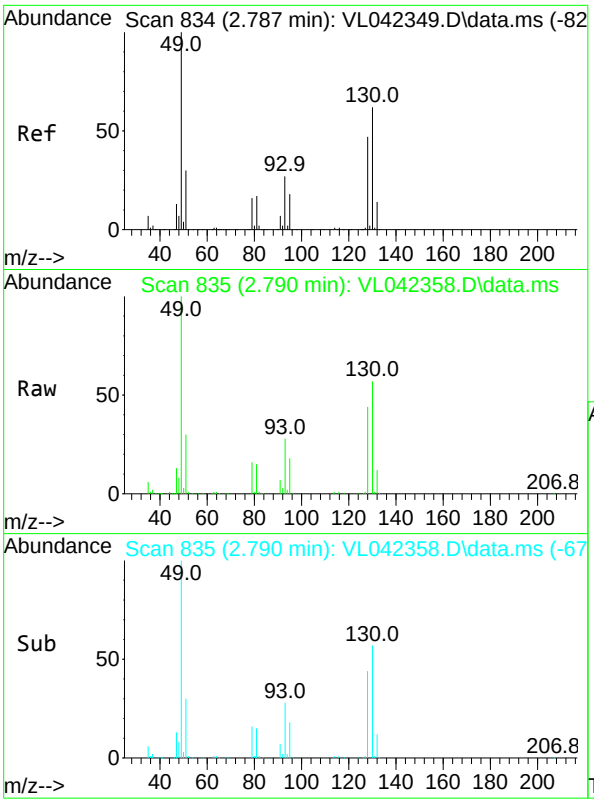
Quant Time: Apr 18 02:36:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01

Manual Integrations APPROVED

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

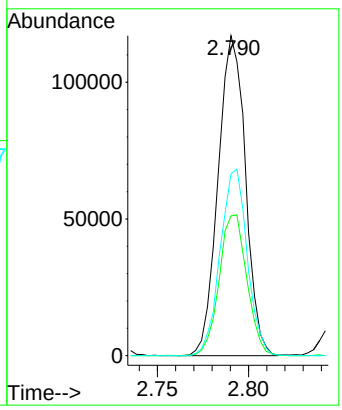




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 49 Resp: 12237

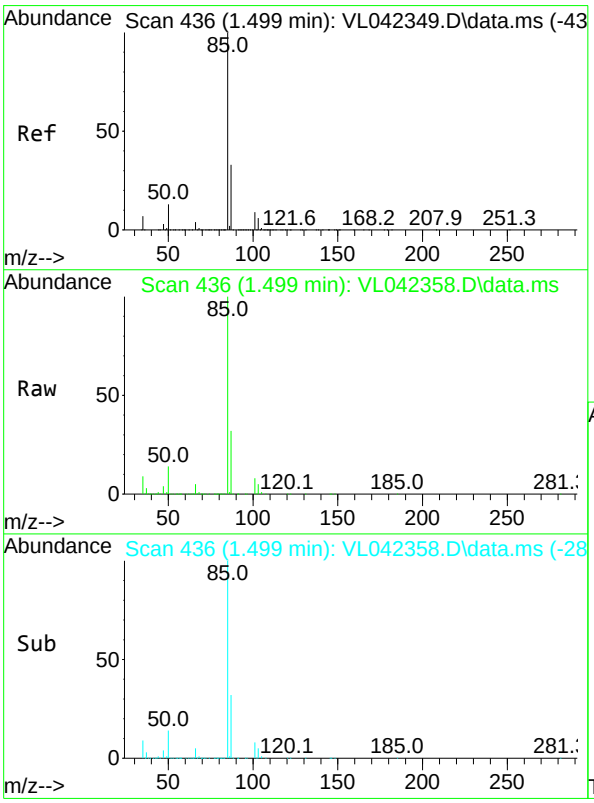
Ion	Ratio	Lower	Upper
49	100		
128	44.5	22.8	68.4
130	57.6	29.3	88.0



Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01

Manual Integrations
APPROVED

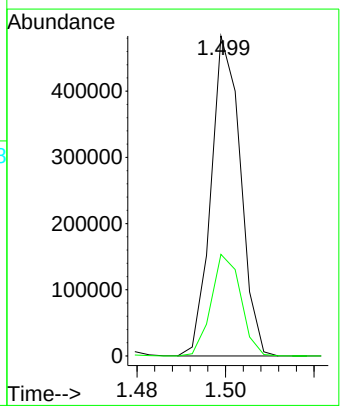
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

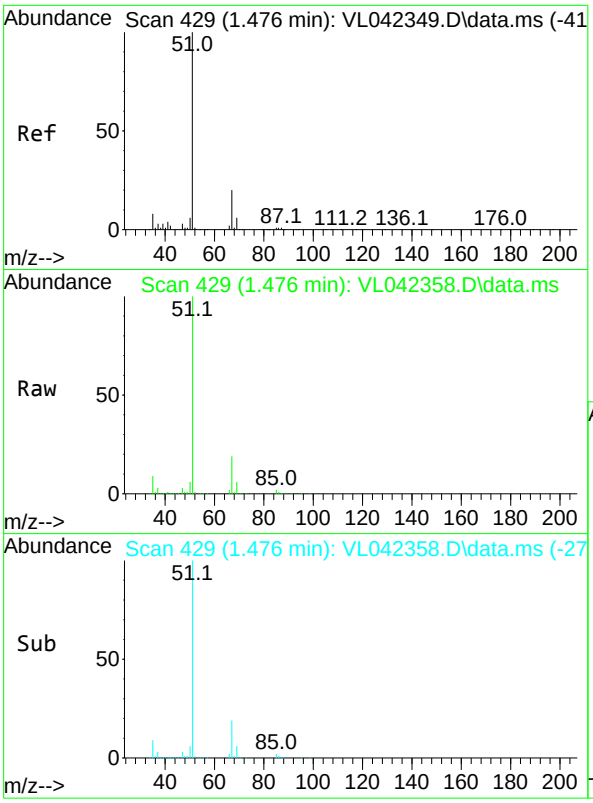


#2
Dichlorodifluoromethane
Concen: 10.337 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.000 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 85 Resp: 223505

Ion	Ratio	Lower	Upper
85	100		
87	31.7	26.6	39.8

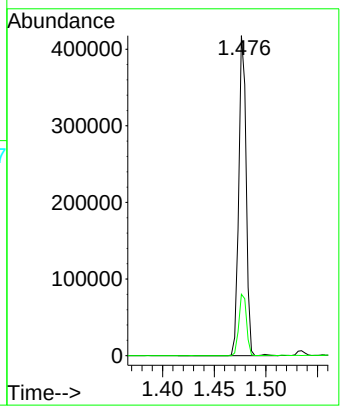




#3
Chlorodifluoromethane
Concen: 10.014 ppbv
RT: 1.476 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 51 Resp: 20617

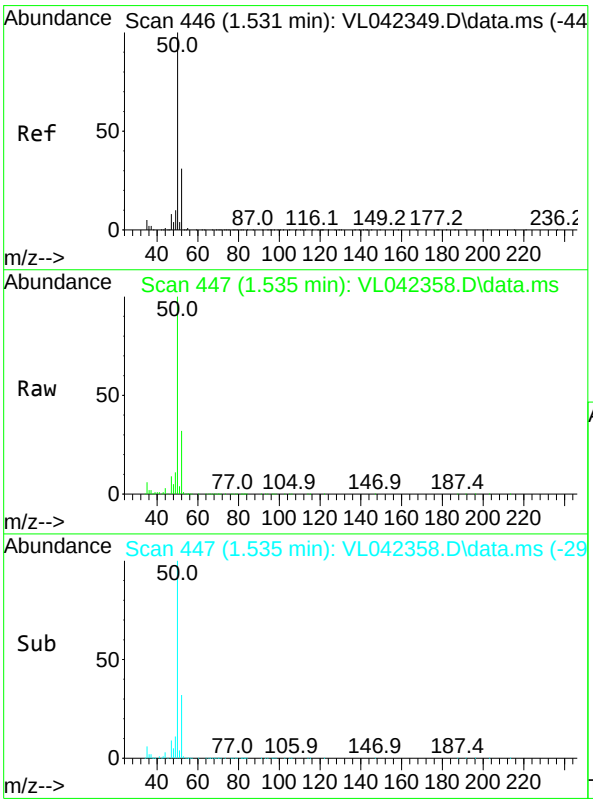
Ion	Ratio	Lower	Upper
51	100		
67	20.2	16.2	24.4



Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01

Manual Integrations
APPROVED

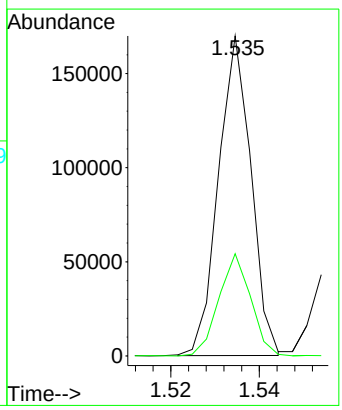
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

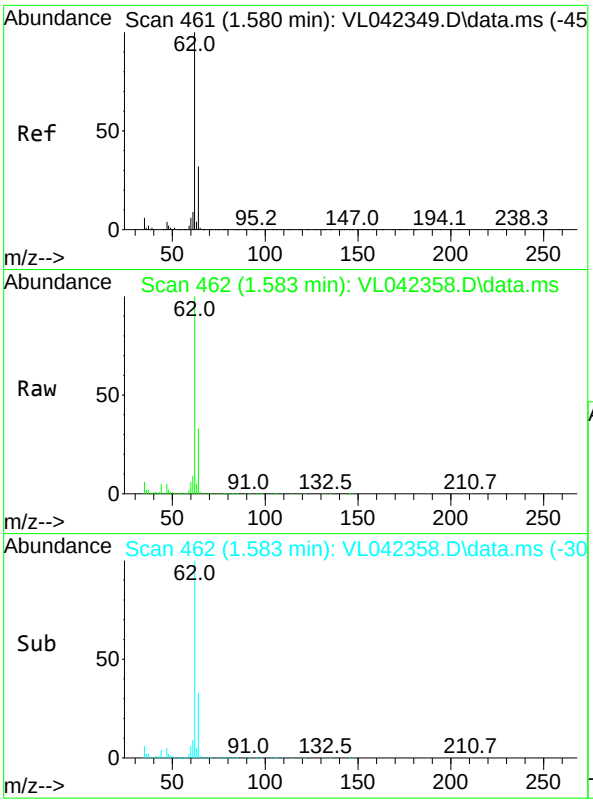


#4
Chloromethane
Concen: 10.130 ppbv
RT: 1.535 min Scan# 447
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 50 Resp: 86675

Ion	Ratio	Lower	Upper
50	100		
52	32.1	24.7	37.1

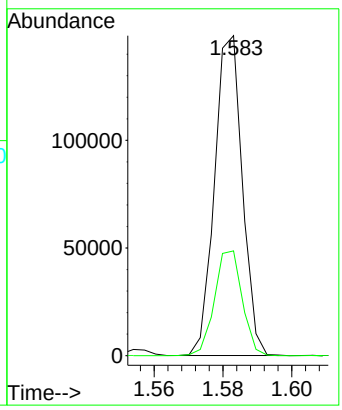




#5
Vinyl Chloride
Concen: 8.956 ppbv
RT: 1.583 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 62 Resp: 8341

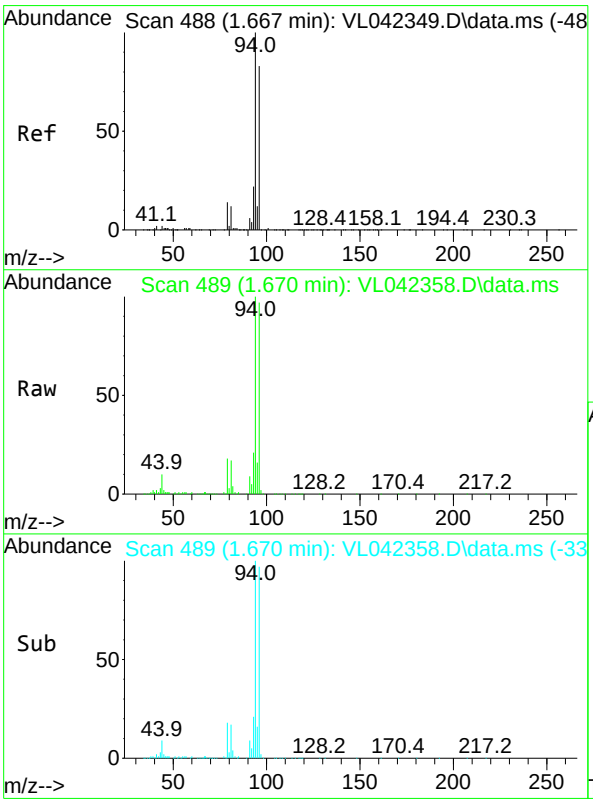
Ion	Ratio	Lower	Upper
62	100		
64	32.8	25.4	38.0



Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01

Manual Integrations
APPROVED

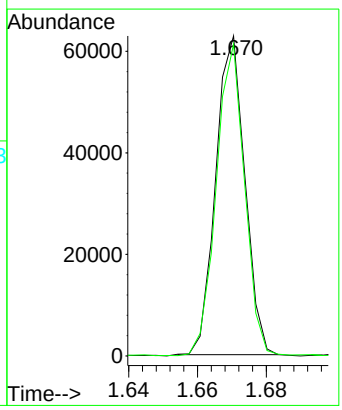
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

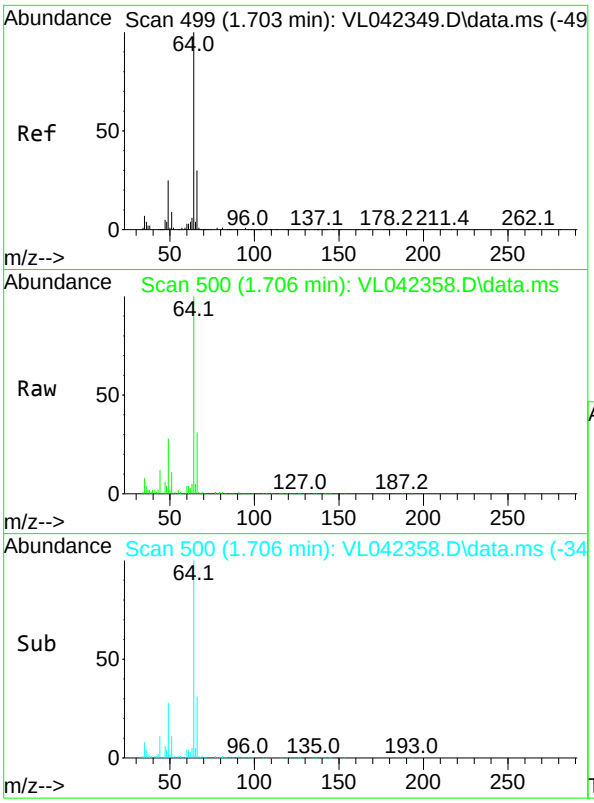


#6
Bromomethane
Concen: 9.235 ppbv
RT: 1.670 min Scan# 489
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 94 Resp: 36951

Ion	Ratio	Lower	Upper
94	100		
96	97.7	66.2	99.2

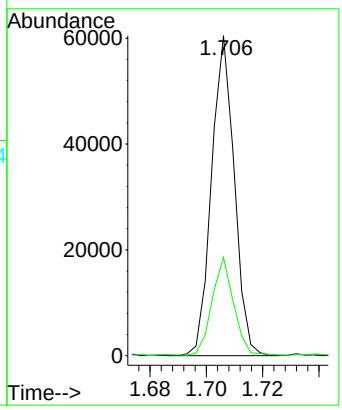




#7
Chloroethane
Concen: 10.075 ppbv
RT: 1.706 min Scan# 5(
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 64 Resp: 3393(

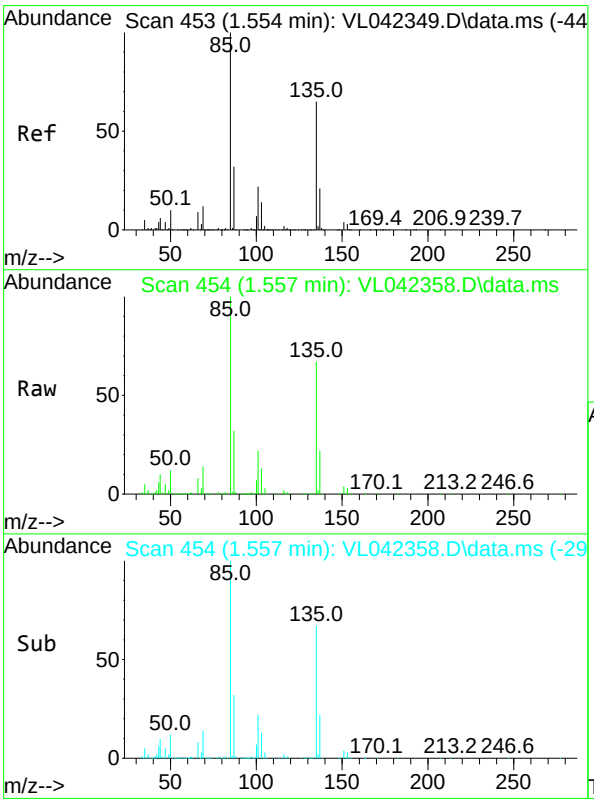
Ion	Ratio	Lower	Upper
64	100		
66	30.7	24.6	37.0



Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01

Manual Integrations
APPROVED

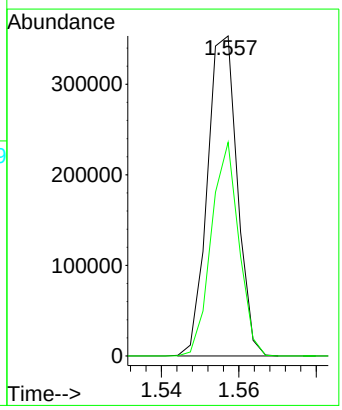
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

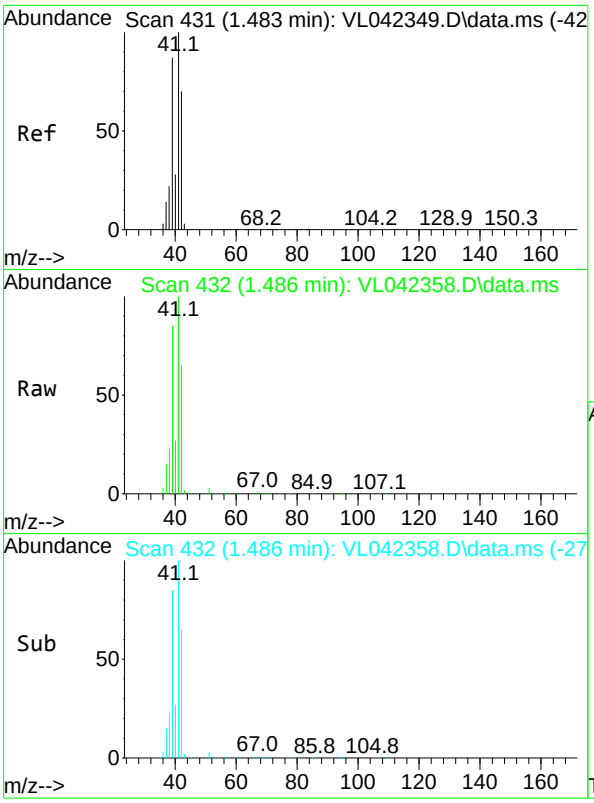


#8
Dichlorotetrafluoroethane
Concen: 10.231 ppbv
RT: 1.557 min Scan# 454
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 85 Resp: 189924

Ion	Ratio	Lower	Upper
85	100		
135	61.4	52.2	78.2

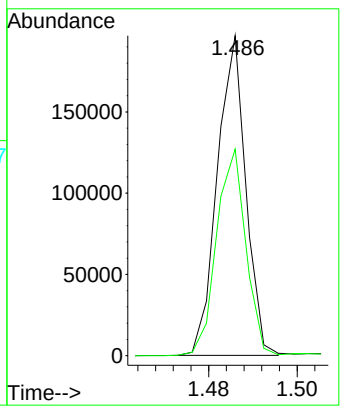




#9
Propene
Concen: 9.395 ppbv
RT: 1.486 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 41 Resp: 8808

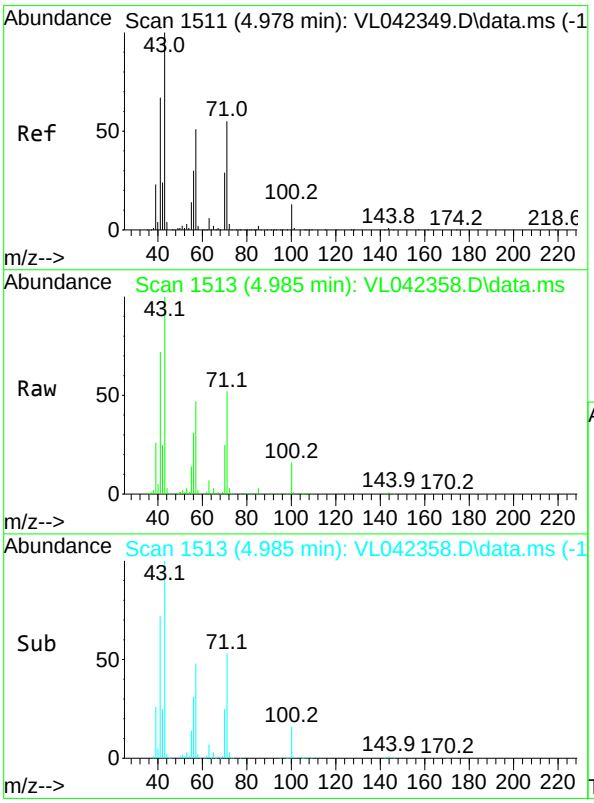
Ion	Ratio	Lower	Upper
41	100		
42	68.4	56.2	84.4



Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01

Manual Integrations
APPROVED

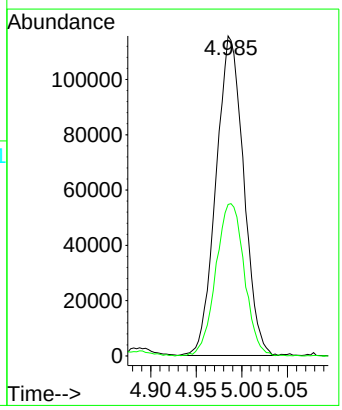
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

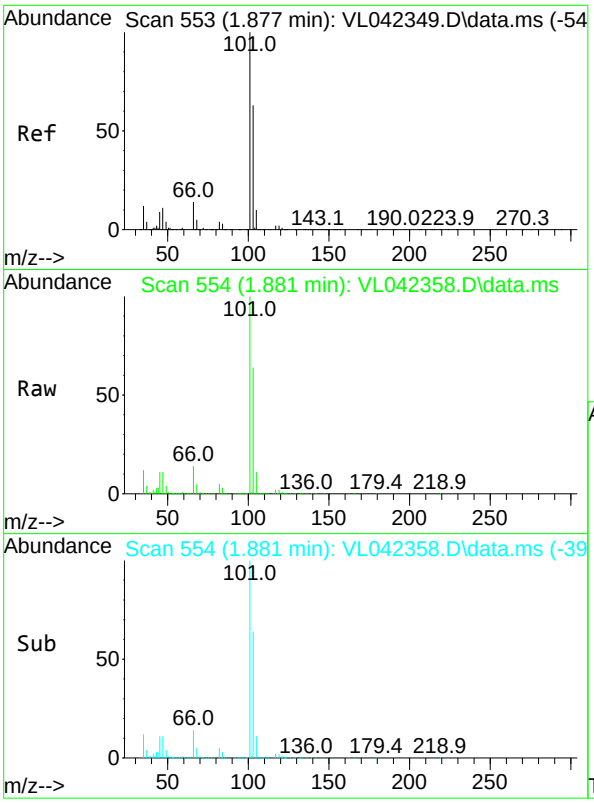


#10
Heptane
Concen: 9.244 ppbv
RT: 4.985 min Scan# 1513
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 43 Resp: 243501

Ion	Ratio	Lower	Upper
43	100		
57	49.4	39.9	59.9

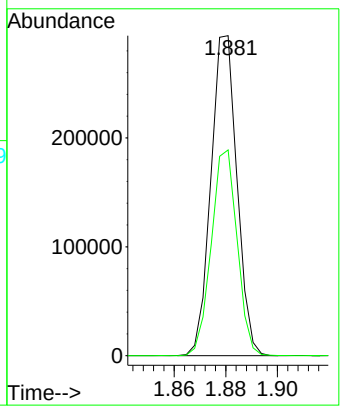




#11
Trichlorofluoromethane
Concen: 10.050 ppbv
RT: 1.881 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion:101 Resp: 20664

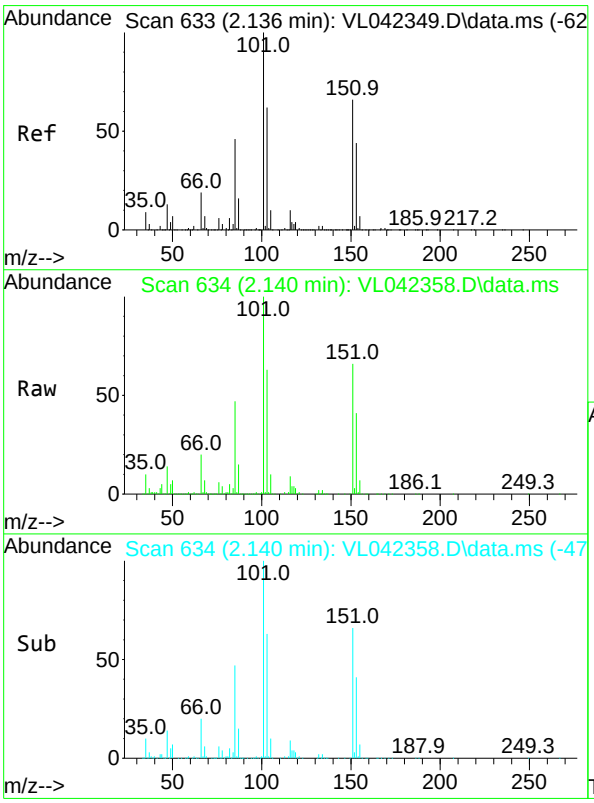
Ion	Ratio	Lower	Upper
101	100		
103	64.3	50.1	75.1



Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01

Manual Integrations
APPROVED

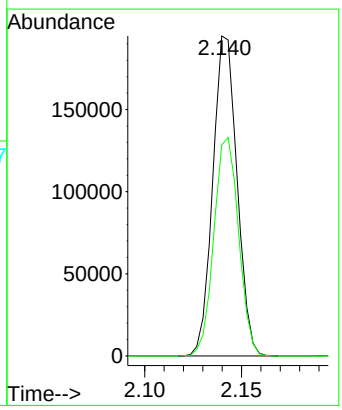
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

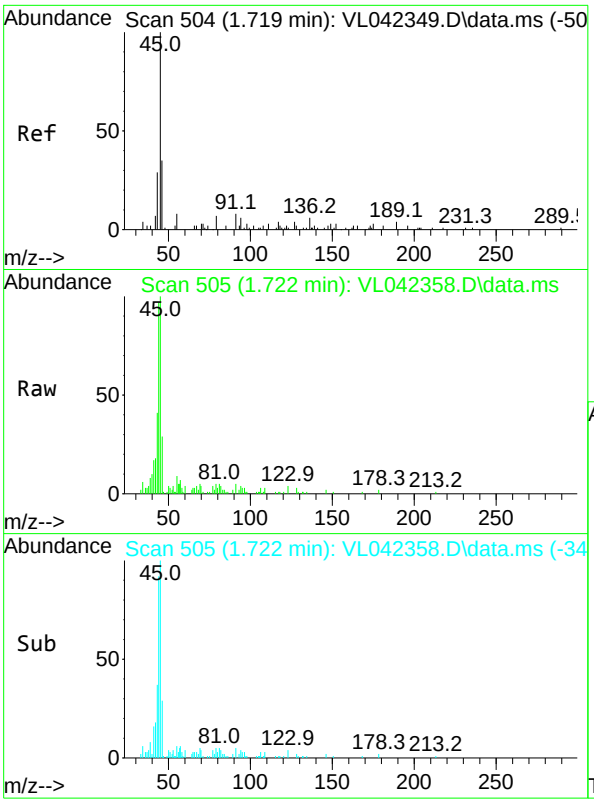


#12
1,1,2-Trichlorotrifluoroethane
Concen: 10.083 ppbv
RT: 2.140 min Scan# 634
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

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

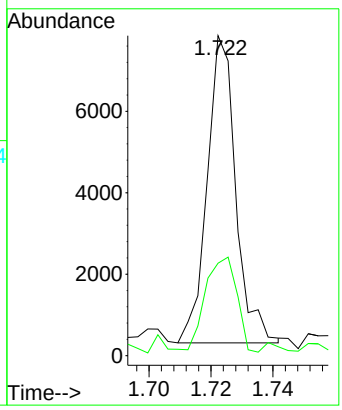
Tgt Ion: 45 Resp: 483

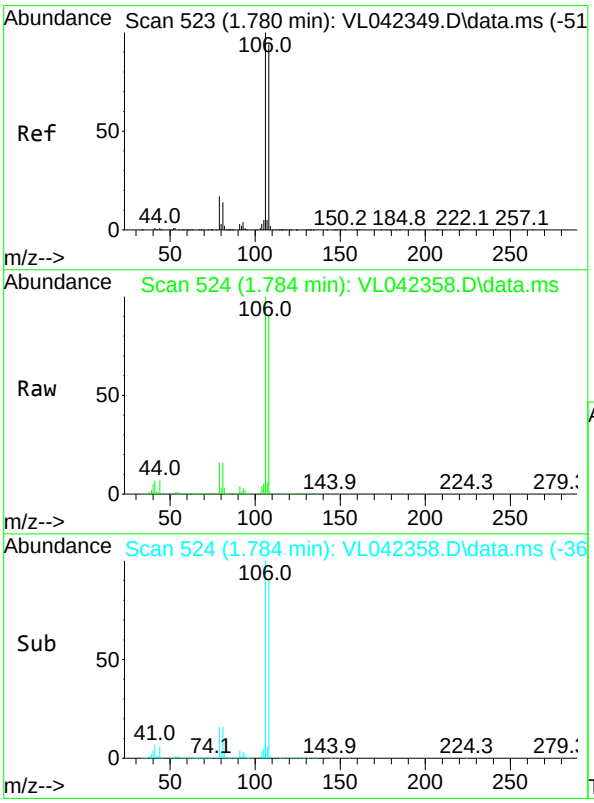
Ion	Ratio	Lower	Upper
45	100		
46	45.8	21.9	87.7

Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01

Manual Integrations
APPROVED

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

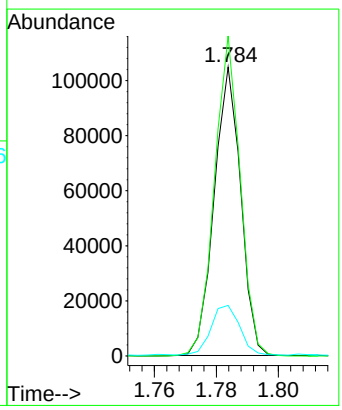


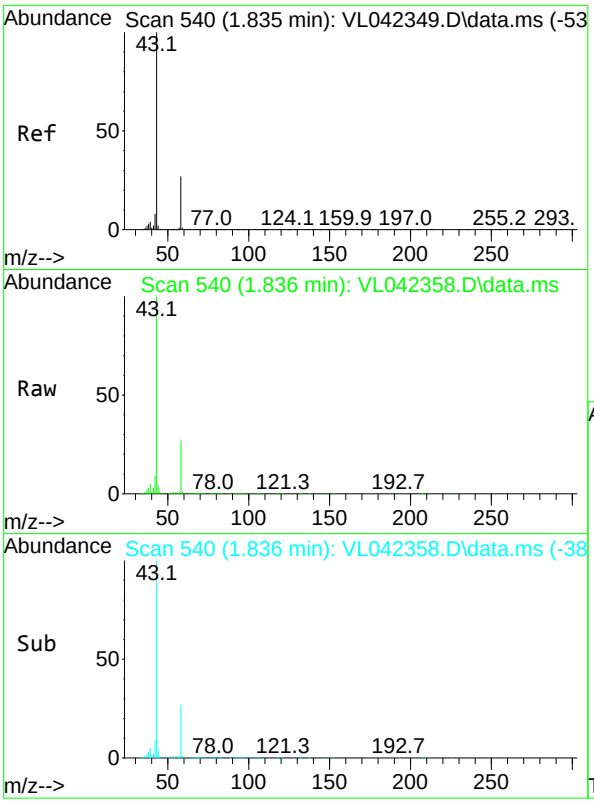


#14
Bromoethene
Concen: 9.818 ppbv
RT: 1.784 min Scan# 524
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

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

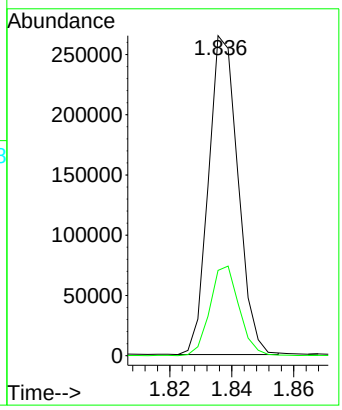




#15
Acetone
Concen: 8.743 ppbv
RT: 1.836 min Scan# 54
Delta R.T. 0.000 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 43 Resp: 17515

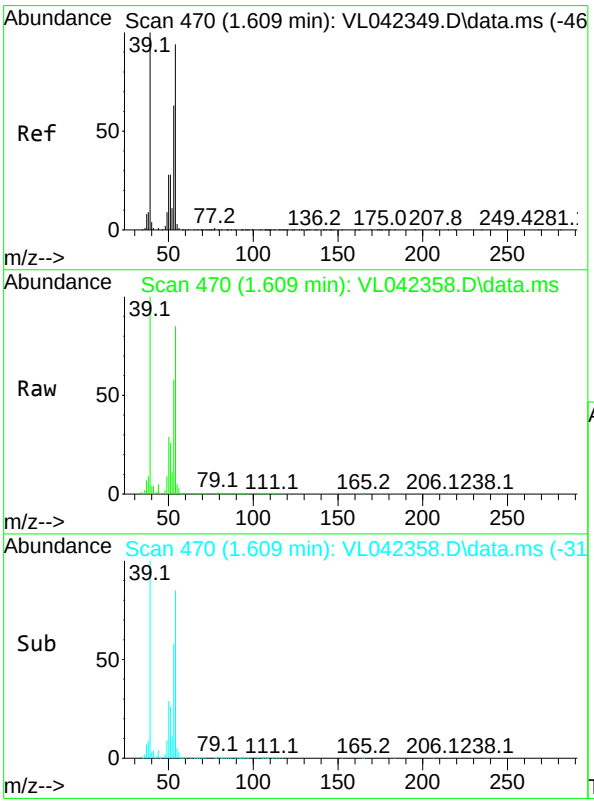
Ion	Ratio	Lower	Upper
43	100		
58	27.9	22.4	33.6



Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01

Manual Integrations
APPROVED

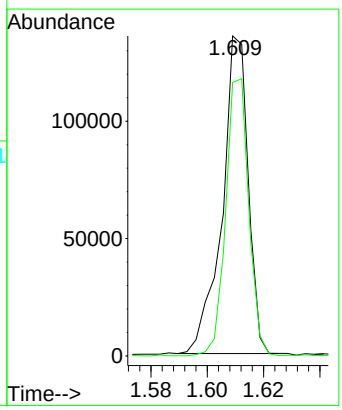
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

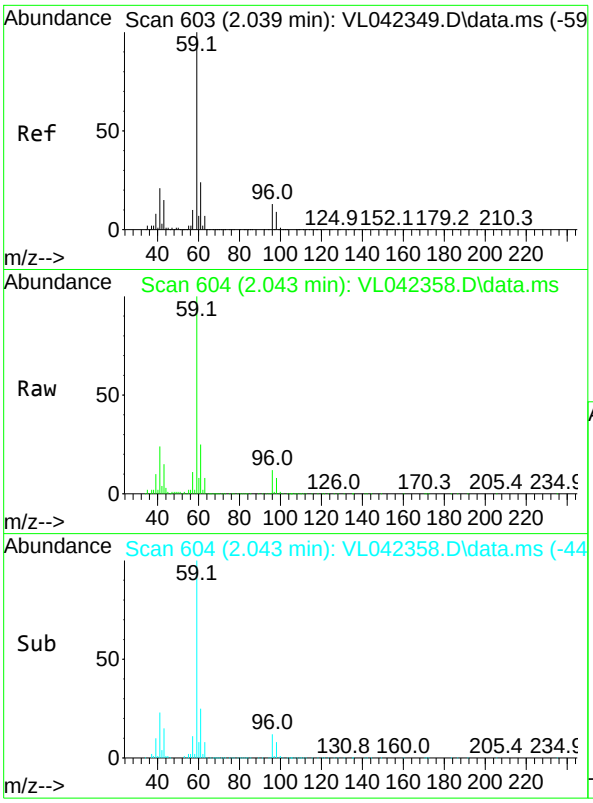


#16
1,3-Butadiene
Concen: 9.076 ppbv
RT: 1.609 min Scan# 470
Delta R.T. 0.000 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 39 Resp: 86965

Ion	Ratio	Lower	Upper
39	100		
54	77.9	64.9	97.3

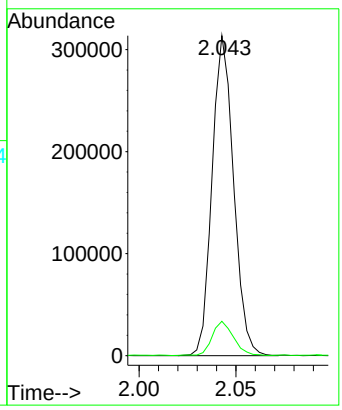




#17
tert-Butyl alcohol
Concen: 9.754 ppbv
RT: 2.043 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 59 Resp: 24215

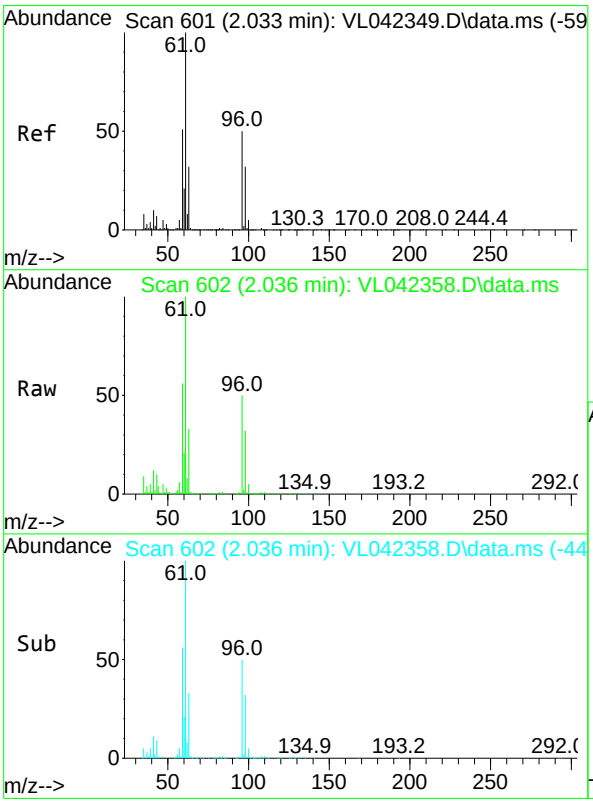
Ion	Ratio	Lower	Upper
59	100		
57	10.9	8.7	13.1



Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01

Manual Integrations
APPROVED

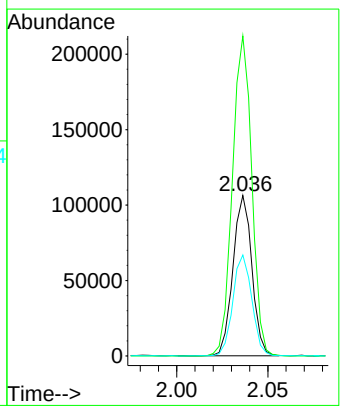
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

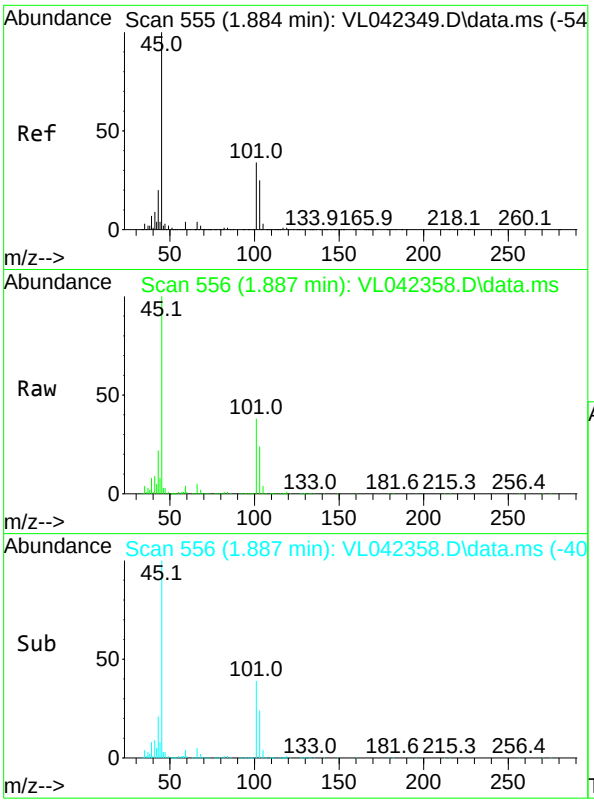


#18
1,1-Dichloroethene
Concen: 9.836 ppbv
RT: 2.036 min Scan# 602
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

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

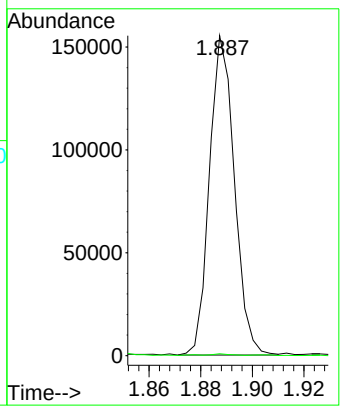




#19
Isopropyl Alcohol
Concen: 9.356 ppbv
RT: 1.887 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 45 Resp: 10412

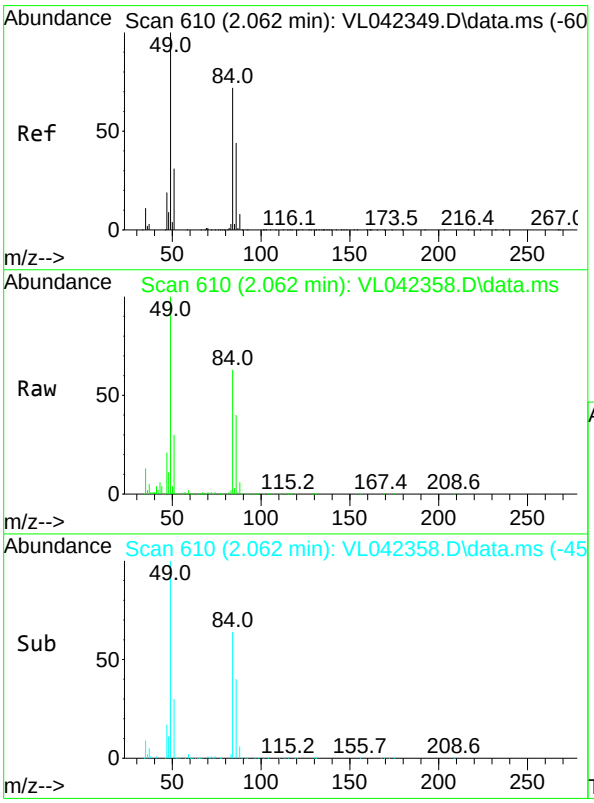
Ion	Ratio	Lower	Upper
45	100		
58	46.9	34.5	51.7



Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01

Manual Integrations
APPROVED

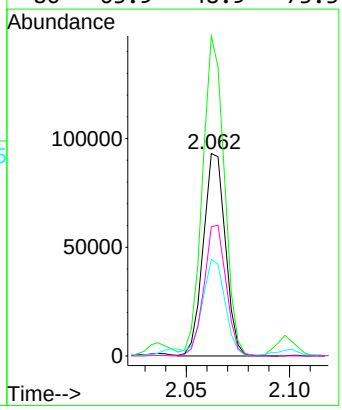
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

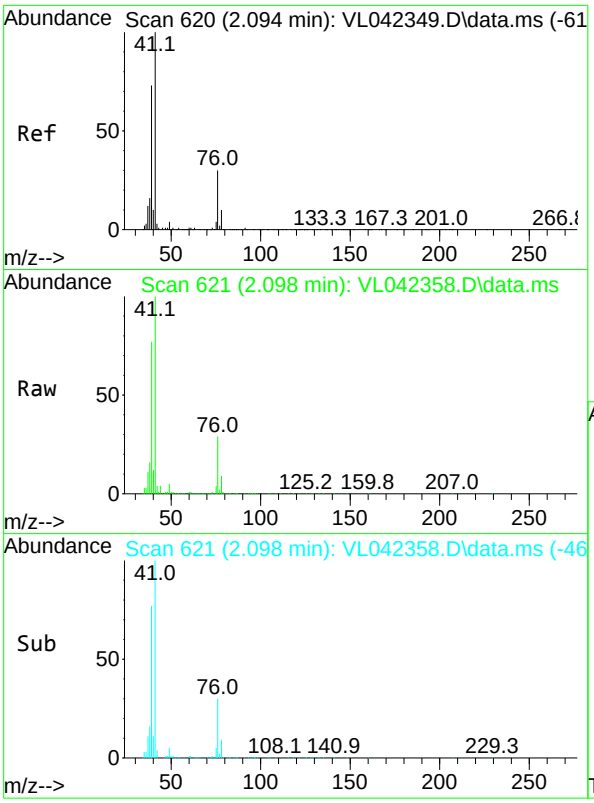


#20
Methylene Chloride
Concen: 8.865 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.000 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

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

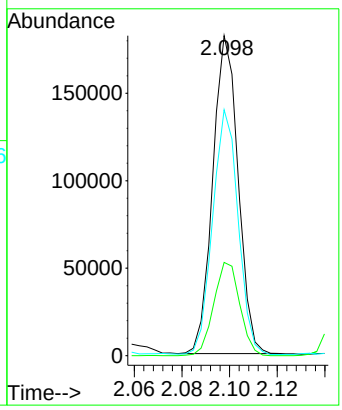




#21
Allyl Chloride
Concen: 9.704 ppbv
RT: 2.098 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 41 Resp: 13422

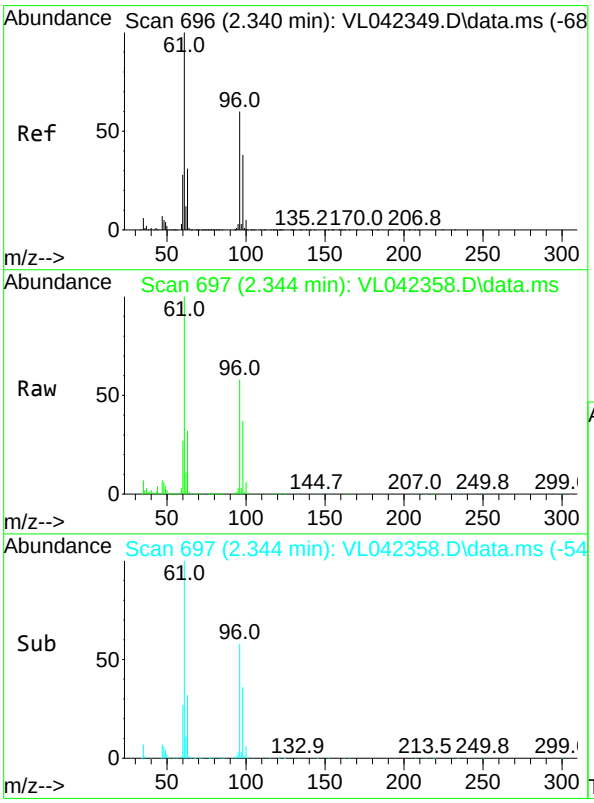
Ion	Ratio	Lower	Upper
41	100		
76	30.1	24.8	37.2
39	76.8	60.6	90.8



Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01

Manual Integrations
APPROVED

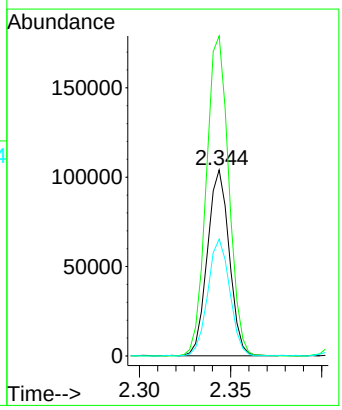
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

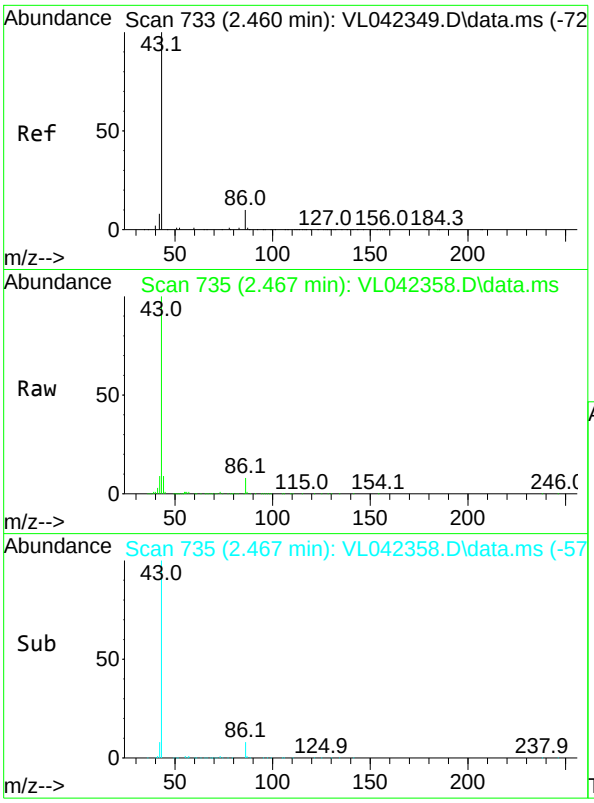


#22
trans-1,2-Dichloroethene
Concen: 9.653 ppbv
RT: 2.344 min Scan# 697
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

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

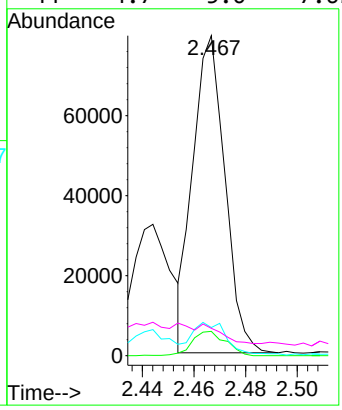




#23
Vinyl Acetate
Concen: 8.427 ppbv
RT: 2.467 min Scan# 7
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 43 Resp: 6833

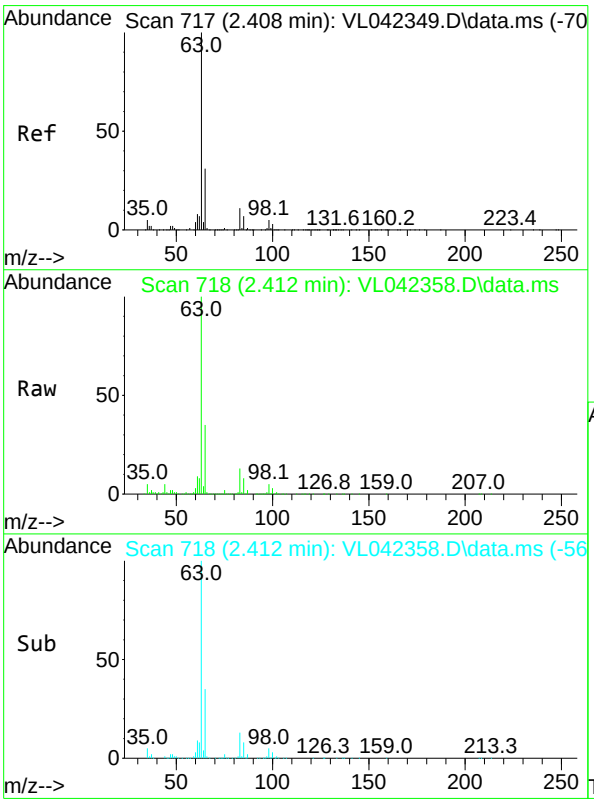
Ion	Ratio	Lower	Upper
43	100		
86	7.7	6.5	9.7
42	8.3	7.8	11.8
44	4.7	5.0	7.6#



Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01

Manual Integrations
APPROVED

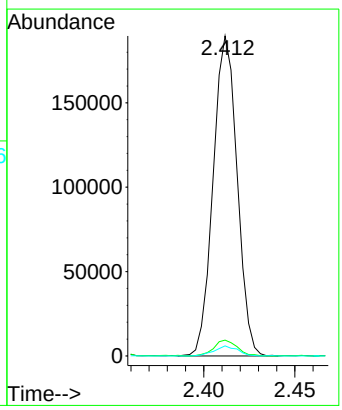
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

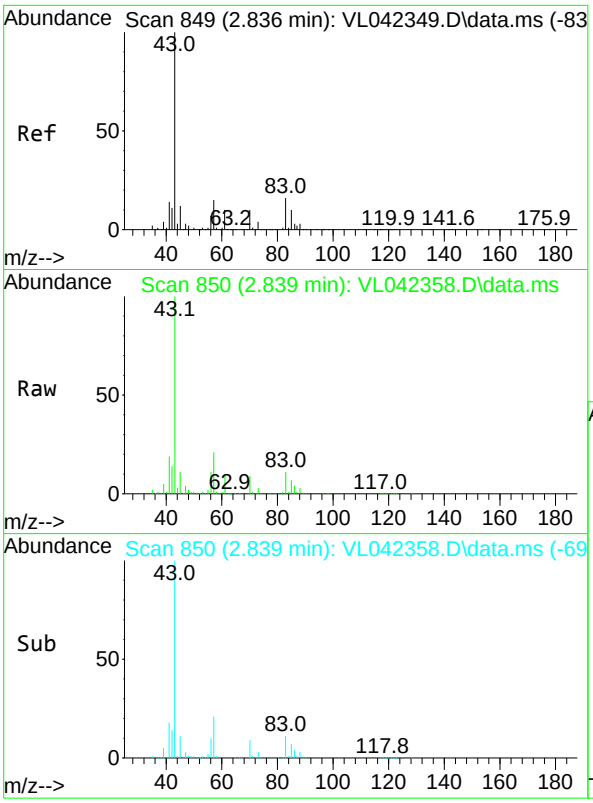


#24
1,1-Dichloroethane
Concen: 10.199 ppbv
RT: 2.412 min Scan# 718
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

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

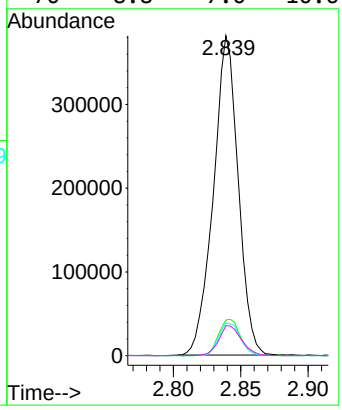




#25
Ethyl Acetate
Concen: 9.894 ppbv
RT: 2.839 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 43 Resp: 48868

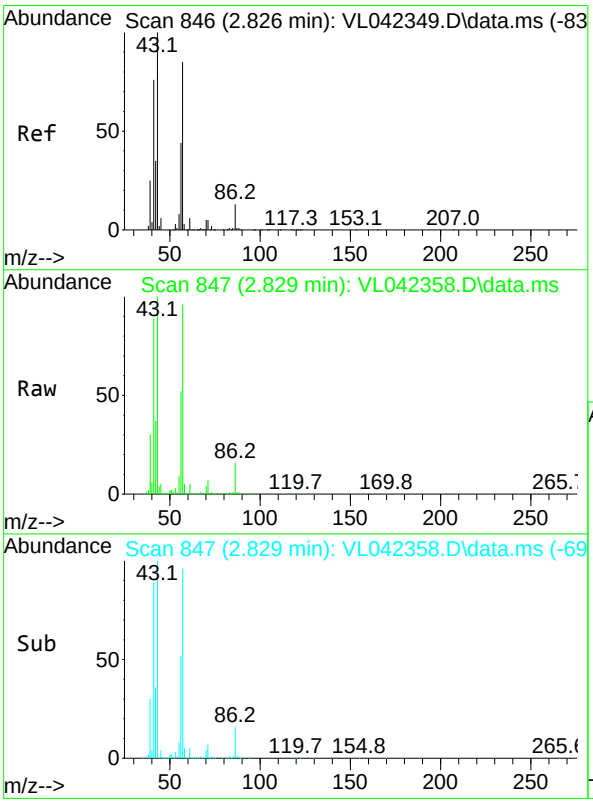
Ion	Ratio	Lower	Upper
43	100		
45	10.1	8.3	12.5
61	9.0	7.3	10.9
70	8.8	7.0	10.6



Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01

Manual Integrations
APPROVED

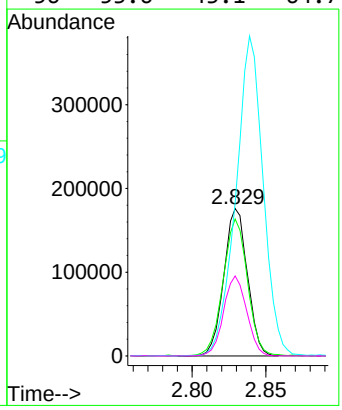
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

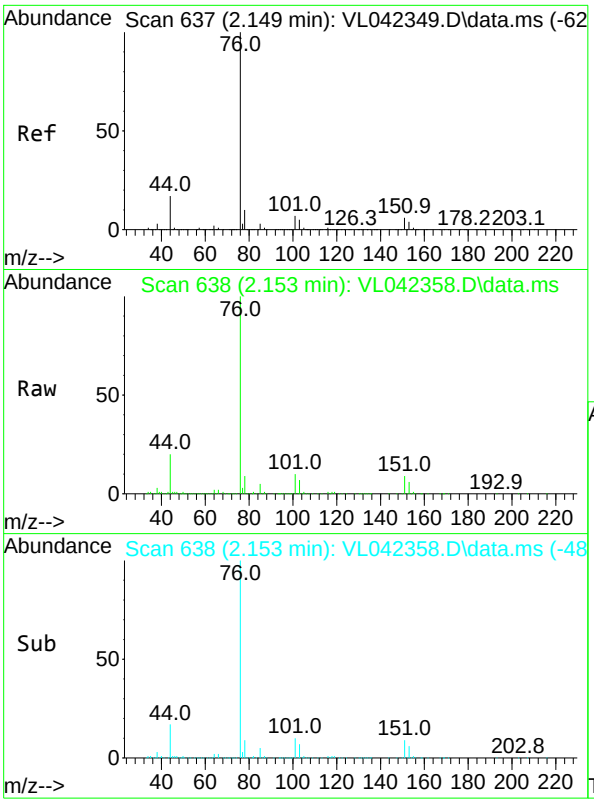


#26
Hexane
Concen: 9.761 ppbv
RT: 2.829 min Scan# 847
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

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

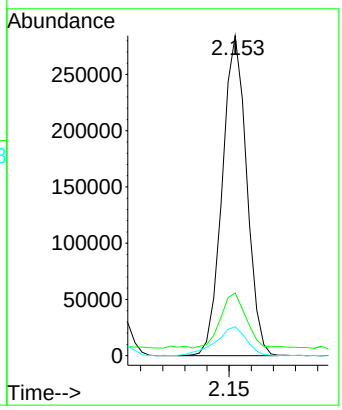




#27
Carbon Disulfide
Concen: 10.202 ppbv
RT: 2.153 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 76 Resp: 21834

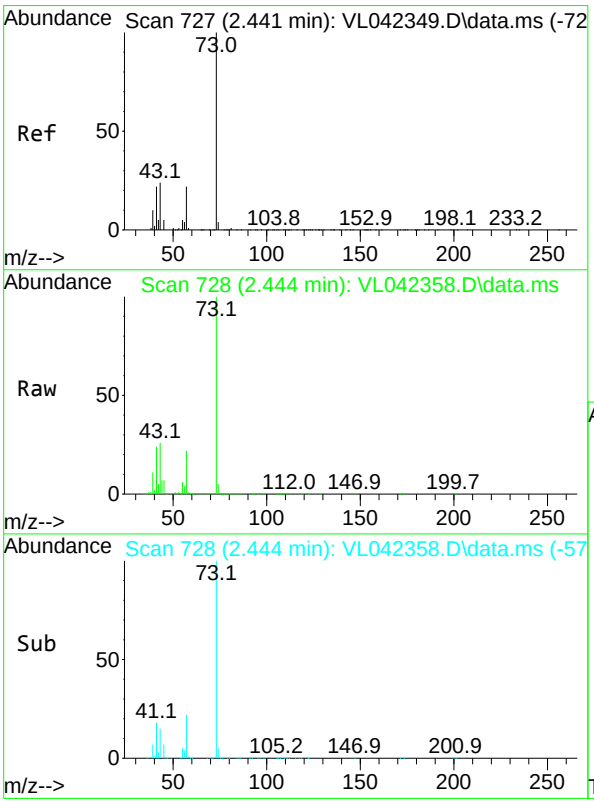
Ion	Ratio	Lower	Upper
76	100		
44	21.6	15.5	23.3
78	11.4	9.3	13.9



Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01

Manual Integrations
APPROVED

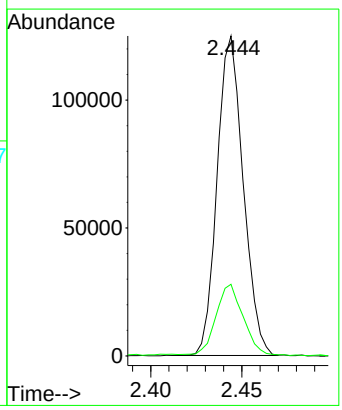
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

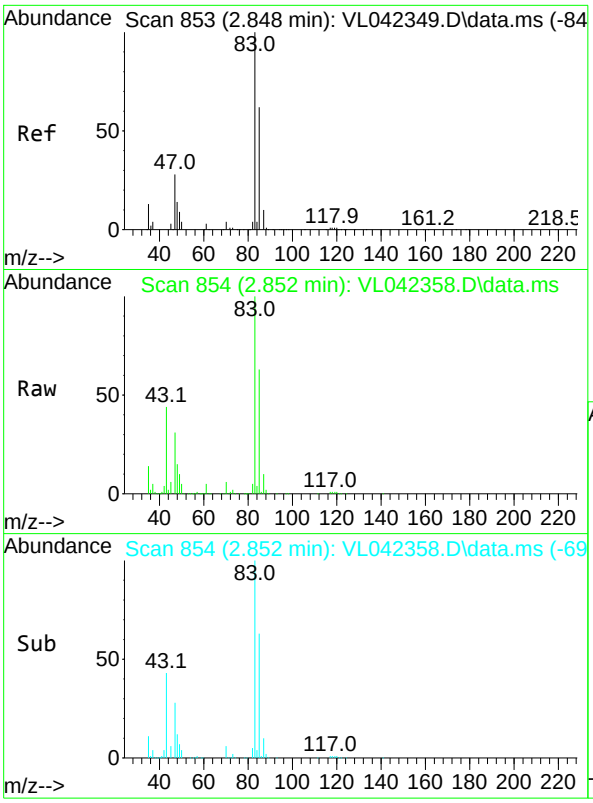


#28
Methyl tert-Butyl Ether
Concen: 9.510 ppbv
RT: 2.444 min Scan# 728
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 73 Resp: 124554

Ion	Ratio	Lower	Upper
73	100		
57	24.5	21.3	31.9

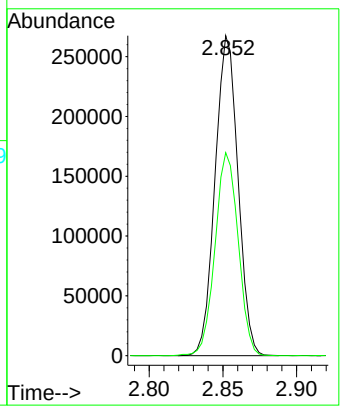




#29
Chloroform
Concen: 10.239 ppbv
RT: 2.852 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 83 Resp: 28929

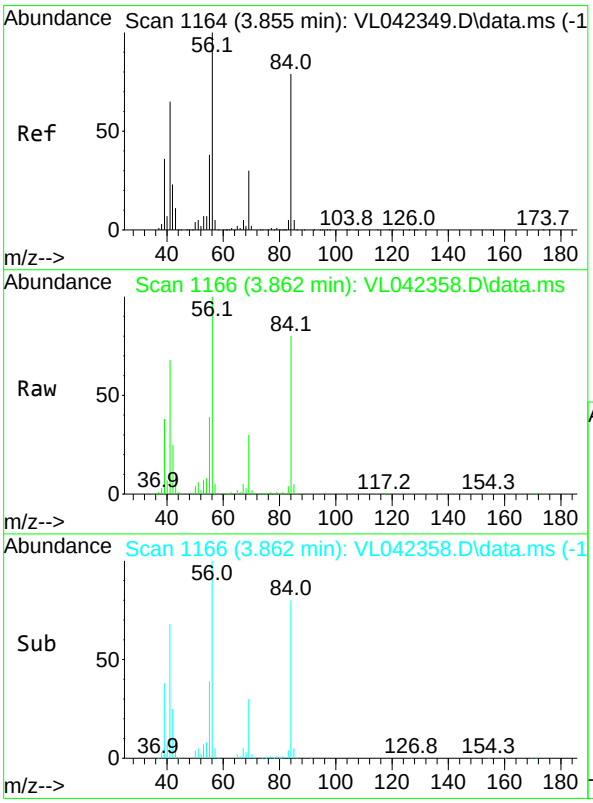
Ion	Ratio	Lower	Upper
83	100		
85	63.4	50.0	75.0



Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01

Manual Integrations
APPROVED

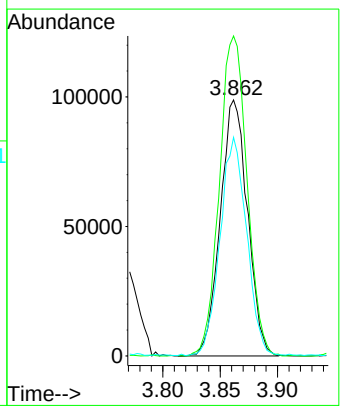
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

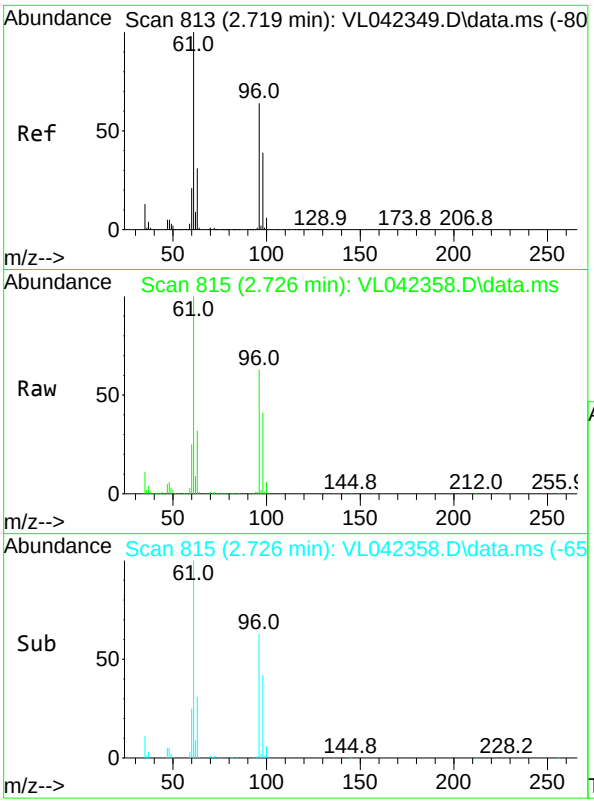


#30
Cyclohexane
Concen: 10.088 ppbv
RT: 3.862 min Scan# 1166
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

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

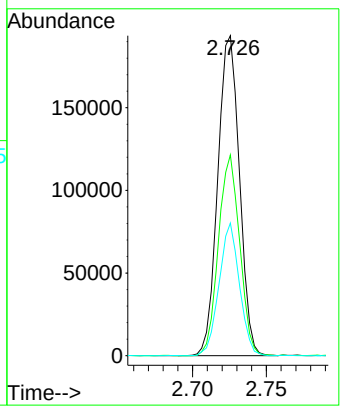




#31
cis-1,2-Dichloroethene
Concen: 10.424 ppbv
RT: 2.726 min Scan# 8
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 61 Resp: 19810

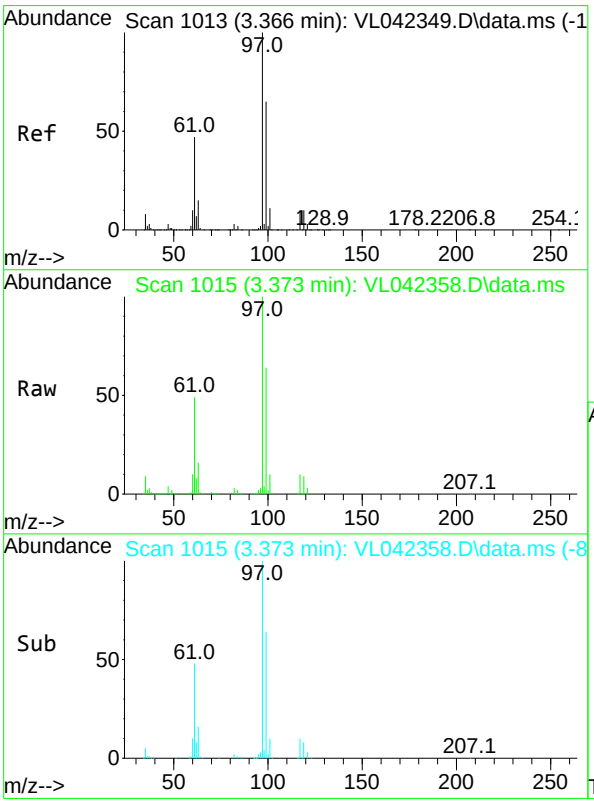
Ion	Ratio	Lower	Upper
61	100		
96	62.8	50.8	76.2
98	41.4	30.9	46.3



Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01

Manual Integrations
APPROVED

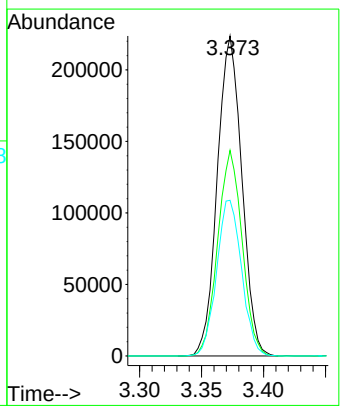
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

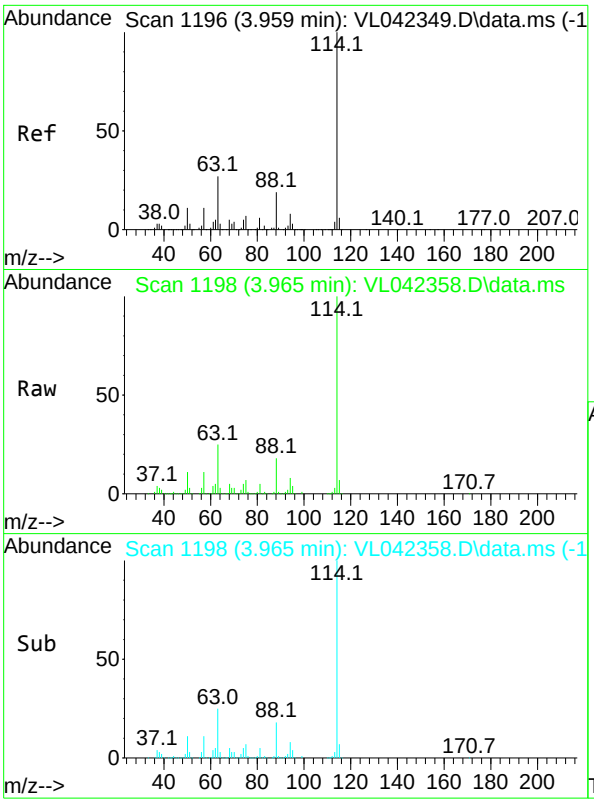


#32
1,1,1-Trichloroethane
Concen: 9.729 ppbv
RT: 3.373 min Scan# 1015
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

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

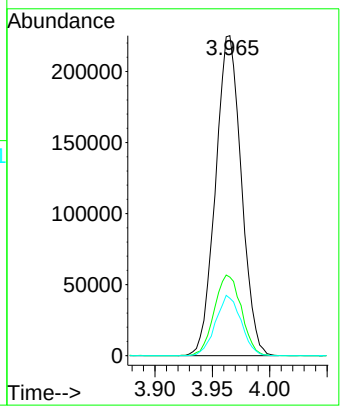
Tgt Ion:114 Resp: 35220

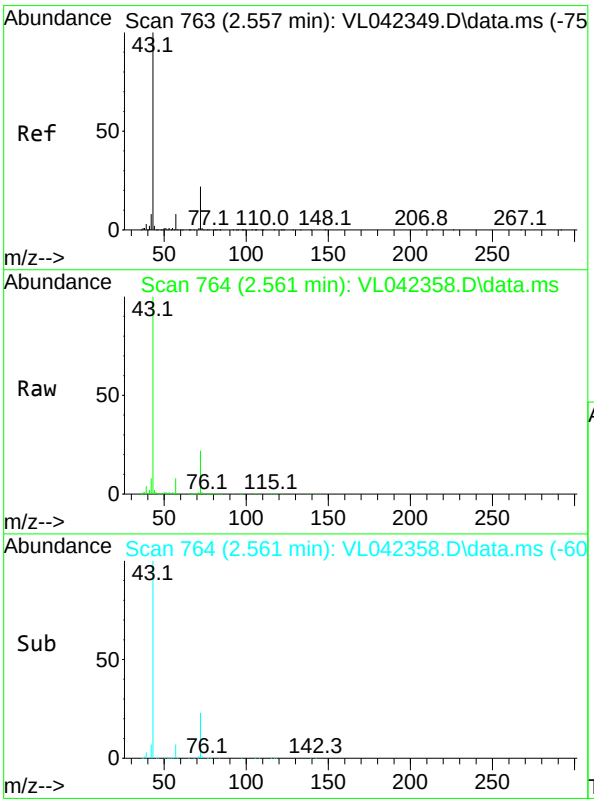
Ion	Ratio	Lower	Upper
114	100		
63	26.4	21.8	32.6
88	18.6	15.5	23.3

Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01

Manual Integrations
APPROVED

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

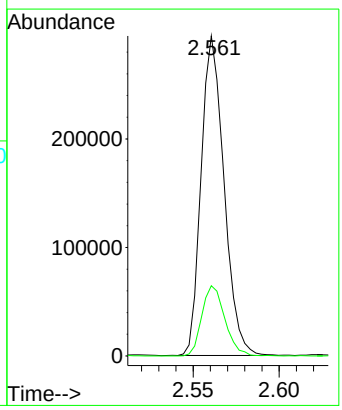


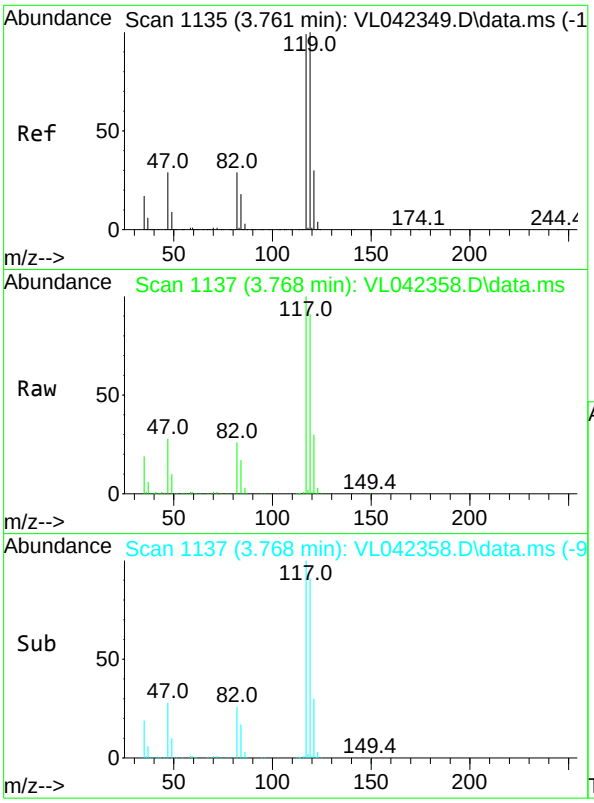


#34
2-Butanone
Concen: 9.787 ppbv
RT: 2.561 min Scan# 764
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 43 Resp: 272600

Ion	Ratio	Lower	Upper
43	100		
72	22.2	18.2	27.2

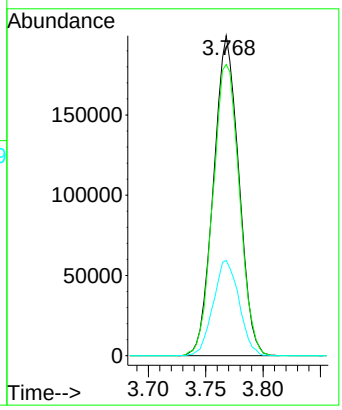




#35
Carbon Tetrachloride
Concen: 9.576 ppbv
RT: 3.768 min Scan# 1
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion:117 Resp: 30524

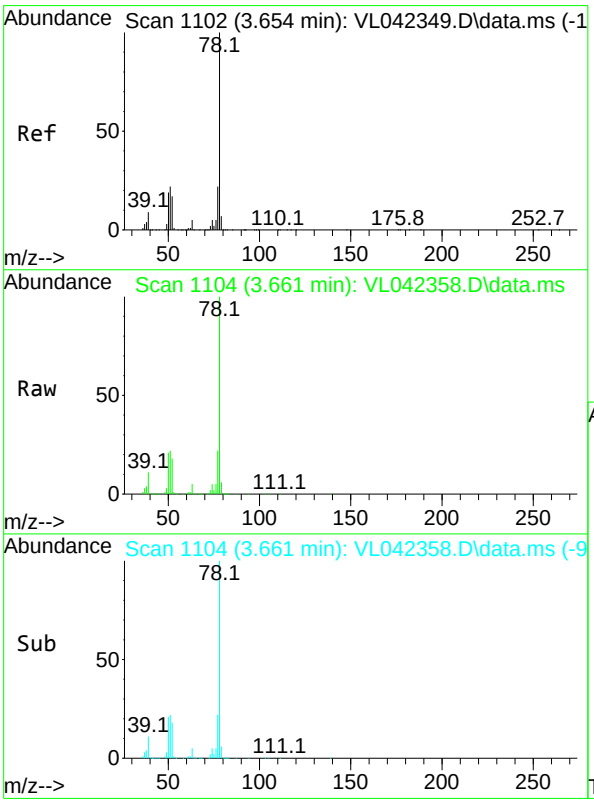
Ion	Ratio	Lower	Upper
117	100		
119	91.0	80.5	120.7
121	29.8	24.2	36.2



Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01

Manual Integrations
APPROVED

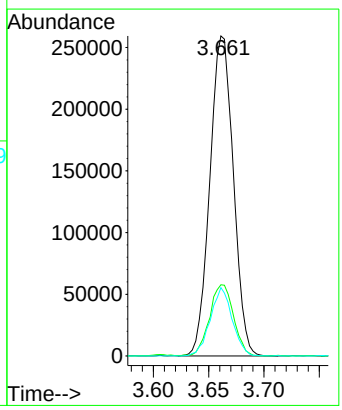
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

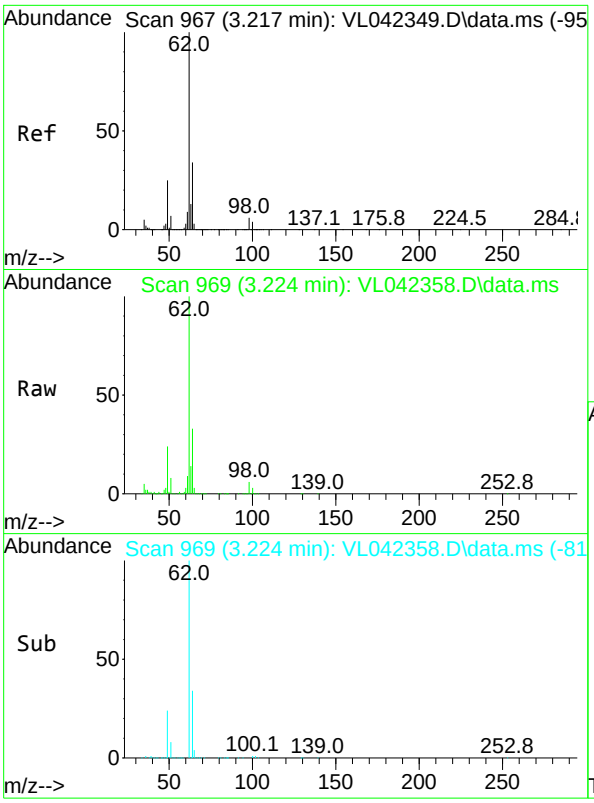


#36
Benzene
Concen: 10.088 ppbv
RT: 3.661 min Scan# 1104
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

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

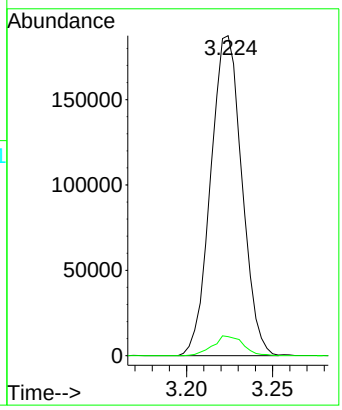




#37
1,2-Dichloroethane
Concen: 10.377 ppbv
RT: 3.224 min Scan# 9
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 62 Resp: 23661

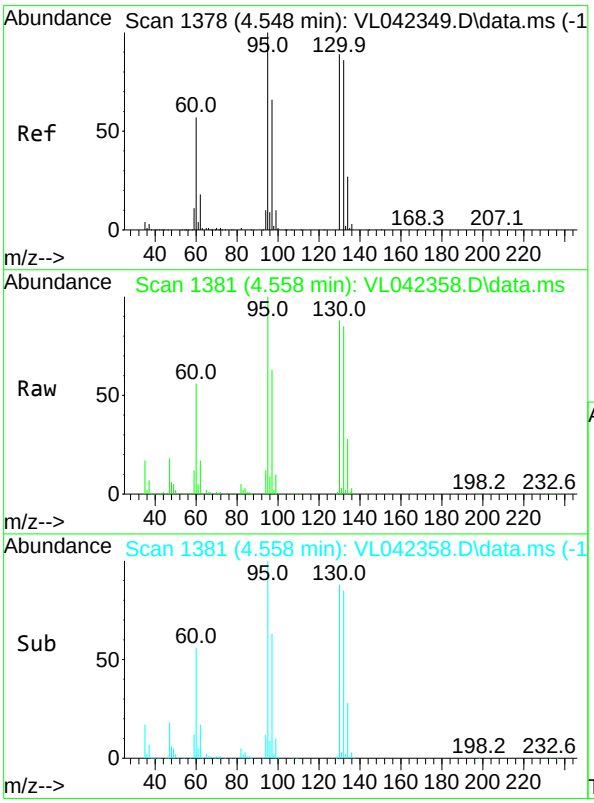
Ion	Ratio	Lower	Upper
62	100		
98	6.0	5.1	7.7



Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01

Manual Integrations
APPROVED

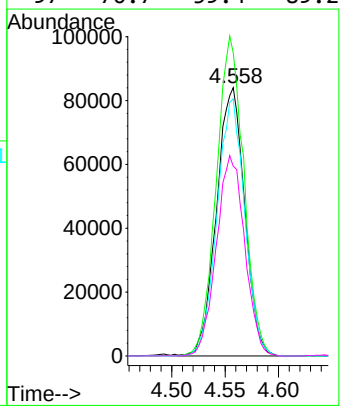
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

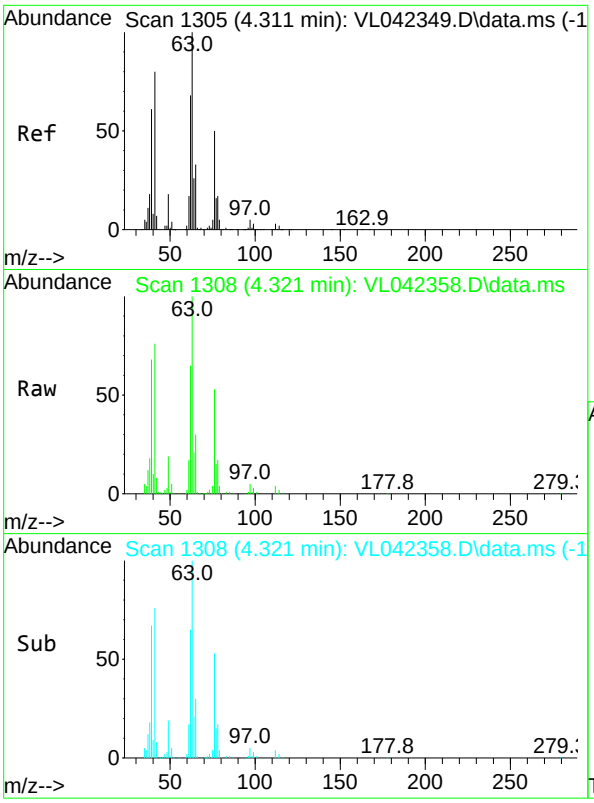


#38
Trichloroethene
Concen: 9.251 ppbv
RT: 4.558 min Scan# 1381
Delta R.T. 0.010 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

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

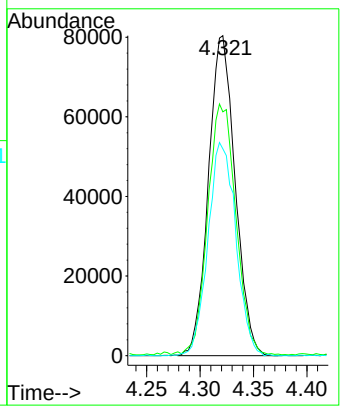




#39
1,2-Dichloropropane
Concen: 9.866 ppbv
RT: 4.321 min Scan# 1
Delta R.T. 0.010 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 63 Resp: 13966

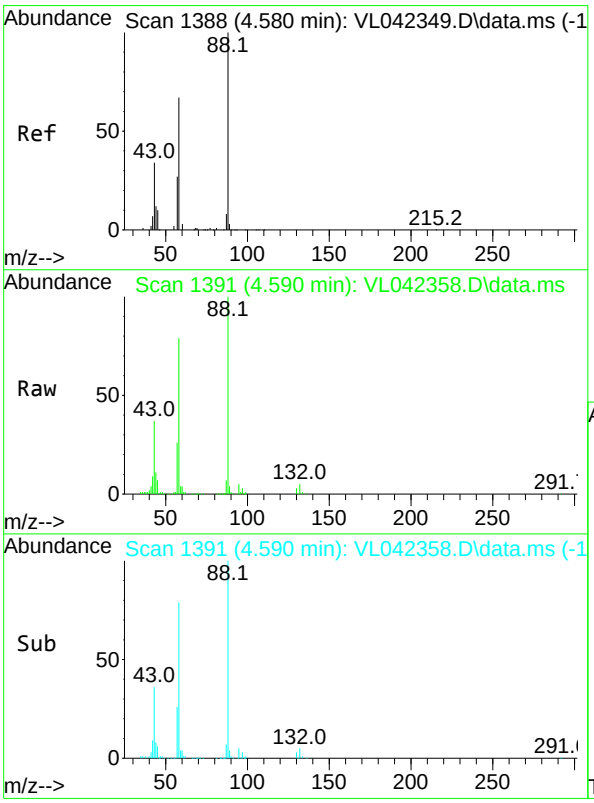
Ion	Ratio	Lower	Upper
63	100		
41	75.7	64.2	96.2
62	64.6	54.3	81.5



Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01

Manual Integrations
APPROVED

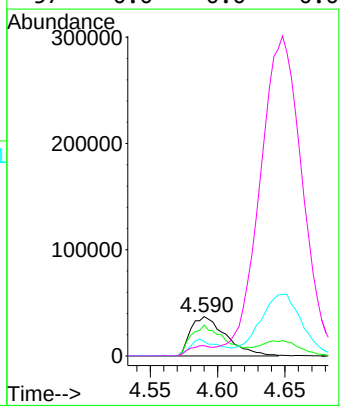
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

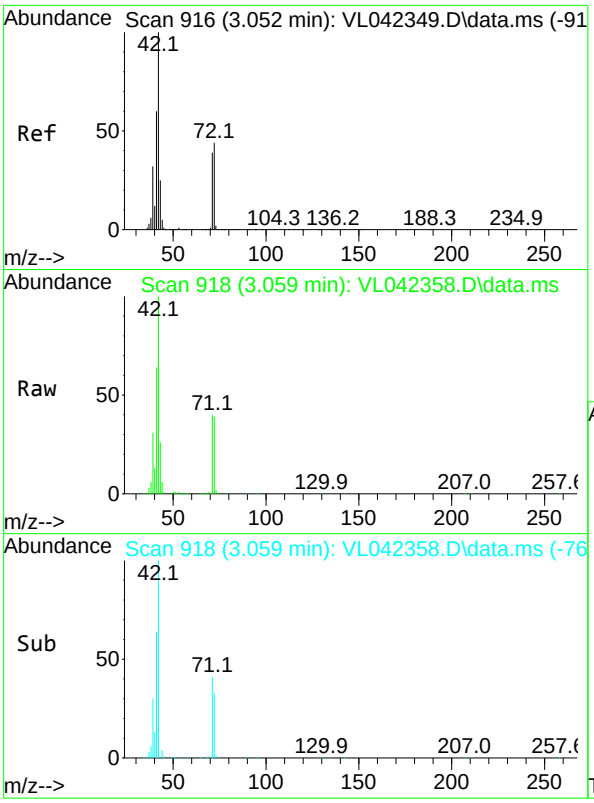


#40
1,4-Dioxane
Concen: 8.716 ppbv
RT: 4.590 min Scan# 1391
Delta R.T. 0.010 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

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

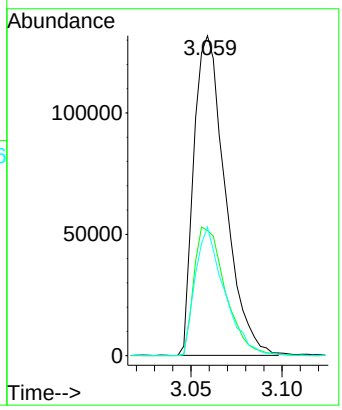




#41
Tetrahydrofuran
Concen: 9.715 ppbv
RT: 3.059 min Scan# 9
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 42 Resp: 15777

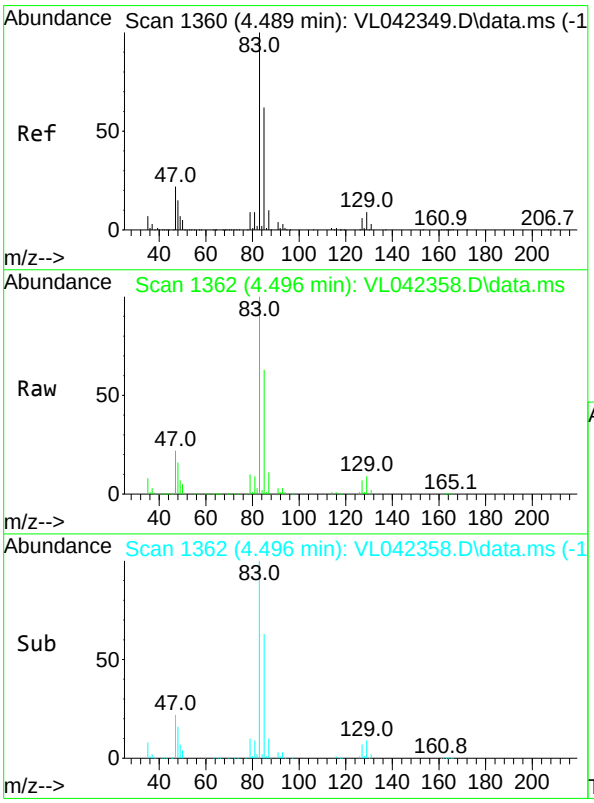
Ion	Ratio	Lower	Upper
42	100		
72	40.3	32.3	48.5
71	37.7	31.4	47.2



Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01

Manual Integrations
APPROVED

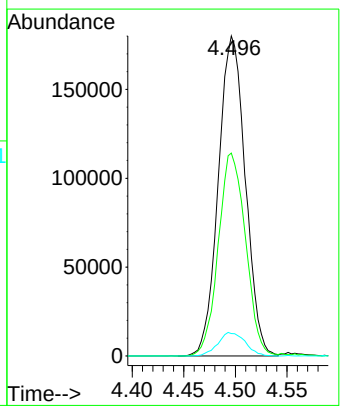
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

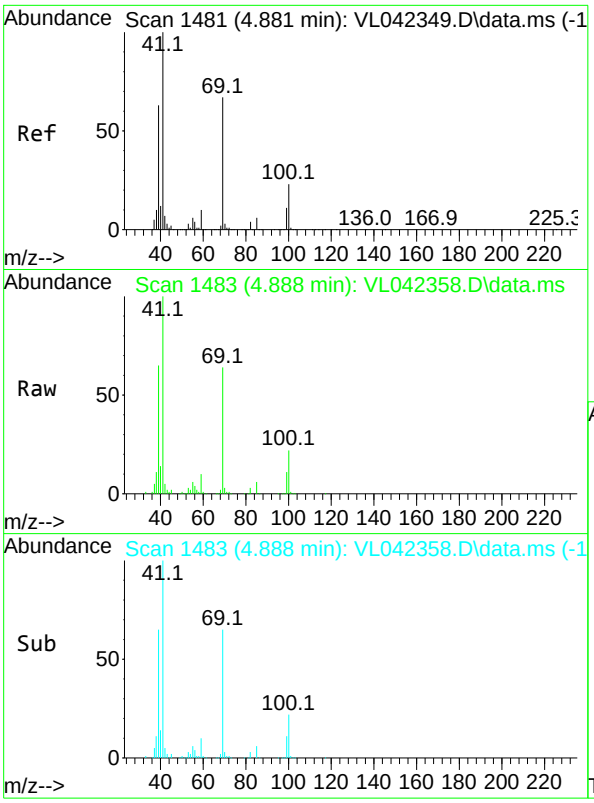


#42
Bromodichloromethane
Concen: 10.326 ppbv
RT: 4.496 min Scan# 1362
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

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

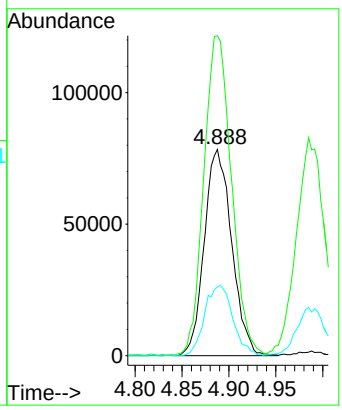




#43
Methyl Methacrylate
Concen: 9.304 ppbv
RT: 4.888 min Scan# 14
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 69 Resp: 15929

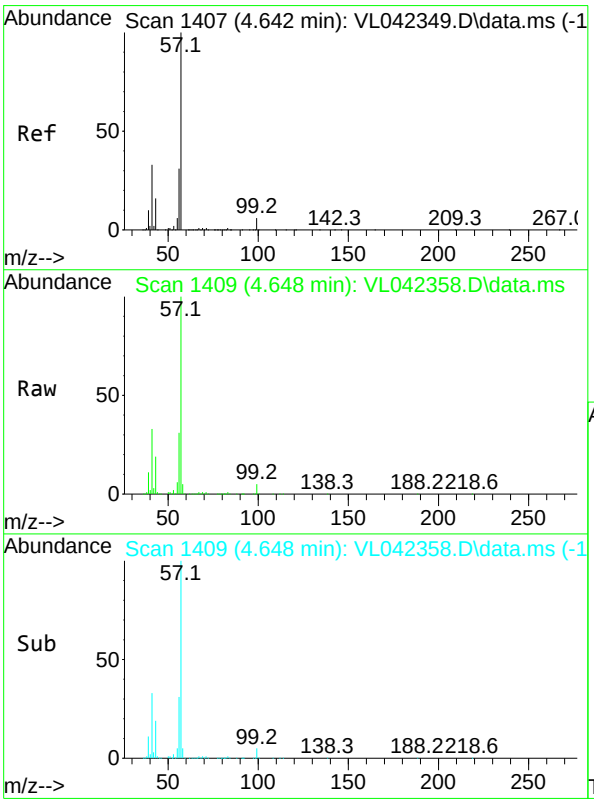
Ion	Ratio	Lower	Upper
69	100		
41	155.9	118.6	177.8
100	35.1	28.2	42.2



Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01

Manual Integrations
APPROVED

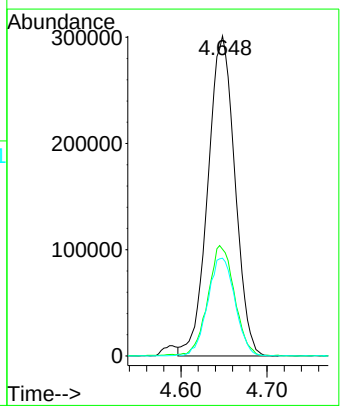
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

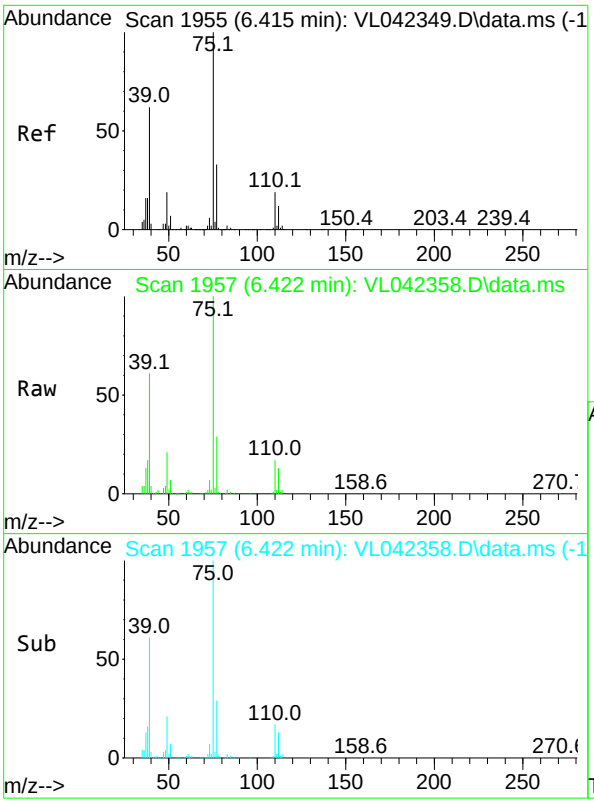


#44
2,2,4-Trimethylpentane
Concen: 10.019 ppbv
RT: 4.648 min Scan# 1409
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

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

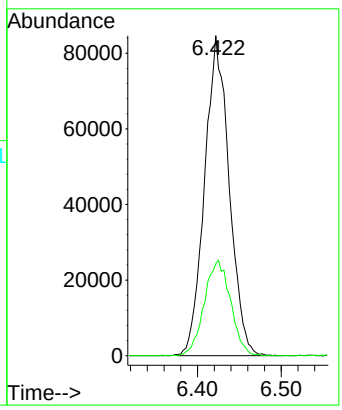




#45
t-1,3-Dichloropropene
Concen: 9.864 ppbv
RT: 6.422 min Scan# 1
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 75 Resp: 17251

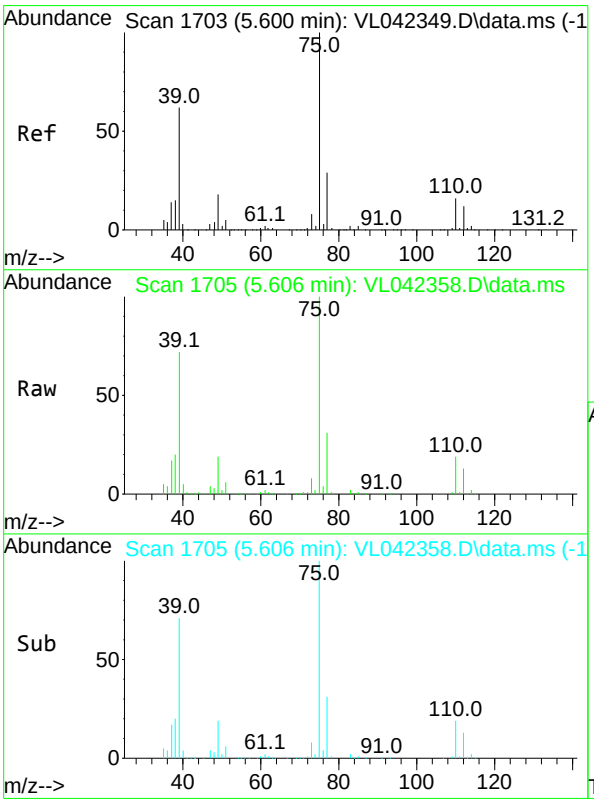
Ion	Ratio	Lower	Upper
75	100		
77	28.7	27.0	40.6



Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01

Manual Integrations
APPROVED

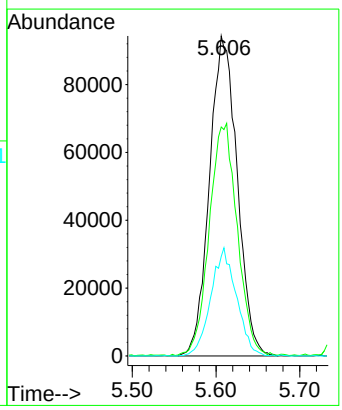
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

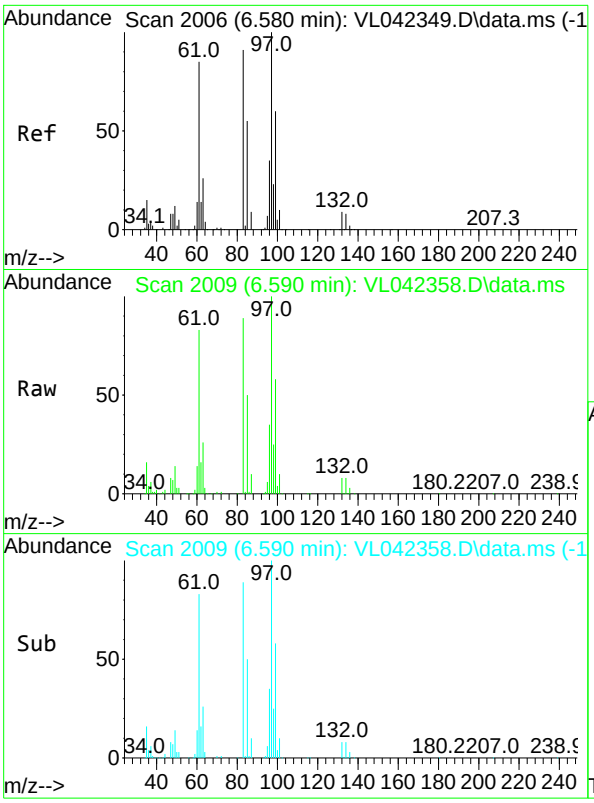


#46
cis-1,3-Dichloropropene
Concen: 10.133 ppbv
RT: 5.606 min Scan# 1705
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

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

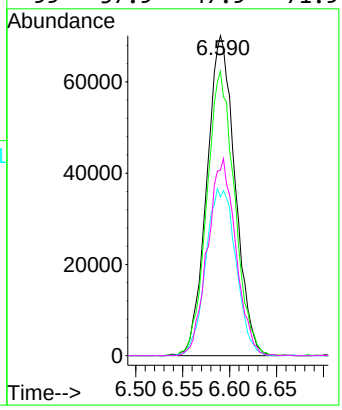




#47
1,1,2-Trichloroethane
Concen: 10.161 ppbv
RT: 6.590 min Scan# 2
Delta R.T. 0.010 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 97 Resp: 14654

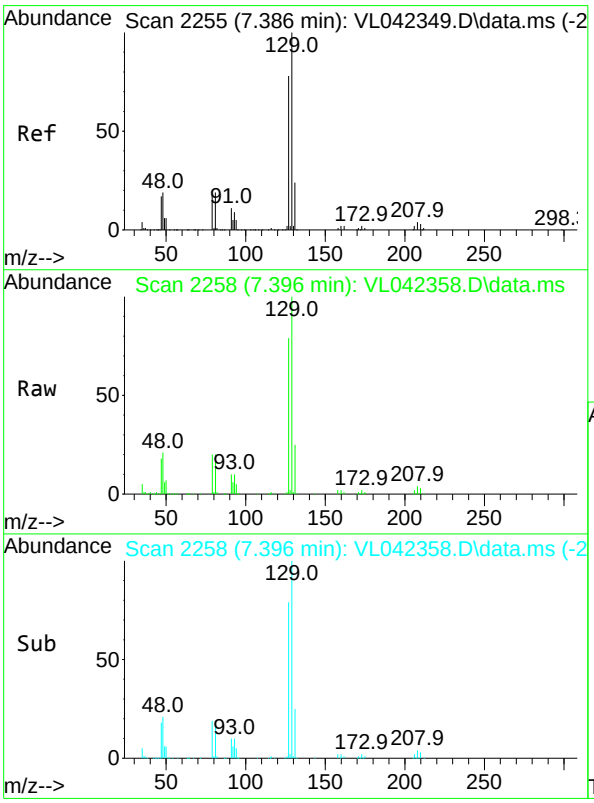
Ion	Ratio	Lower	Upper
97	100		
83	88.7	72.8	109.2
85	49.6	44.2	66.4
99	57.9	47.9	71.9



Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01

Manual Integrations
APPROVED

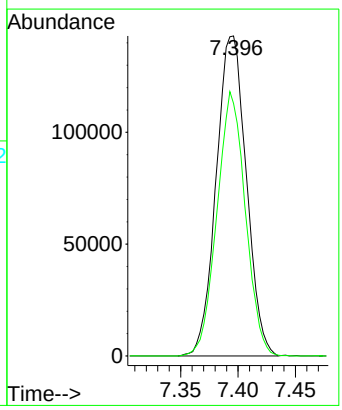
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

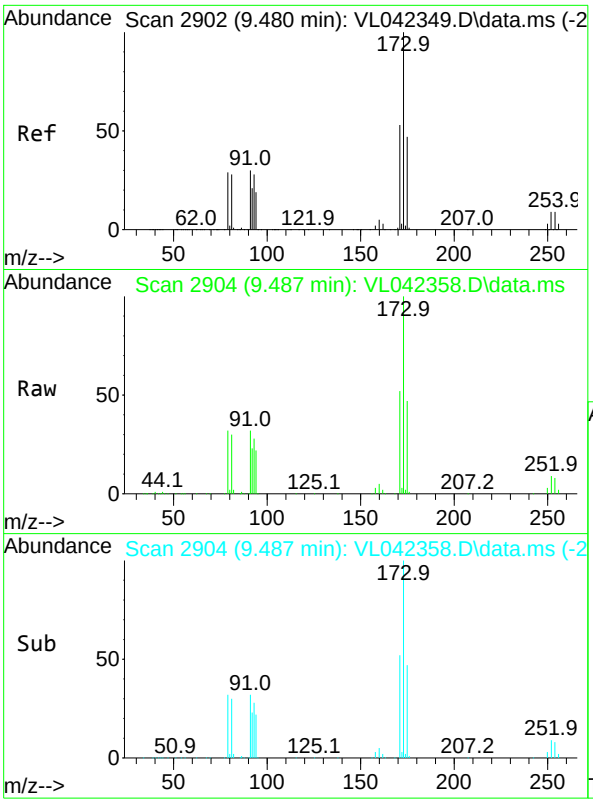


#48
Dibromochloromethane
Concen: 10.261 ppbv
RT: 7.396 min Scan# 2258
Delta R.T. 0.010 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion:129 Resp: 261470

Ion	Ratio	Lower	Upper
129	100		
127	77.9	39.1	117.3

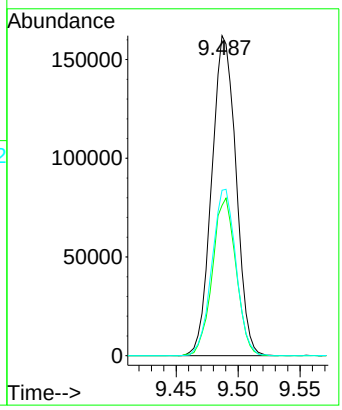




#49
Bromoform
Concen: 9.936 ppbv
RT: 9.487 min Scan# 2
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion:173 Resp: 22137

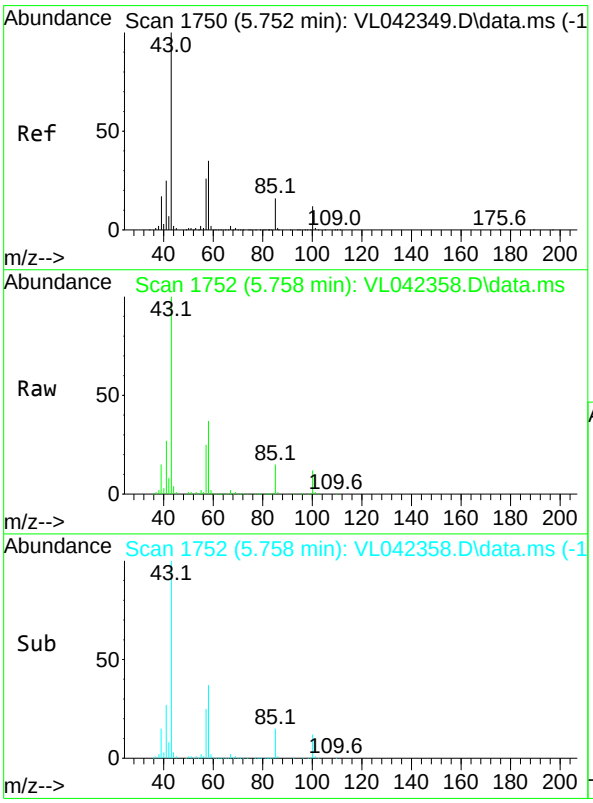
Ion	Ratio	Lower	Upper
173	100		
175	48.0	38.2	57.2
171	51.7	40.9	61.3



Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01

Manual Integrations
APPROVED

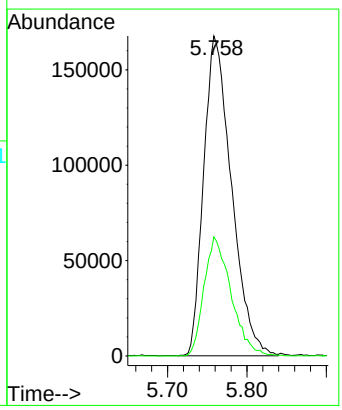
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

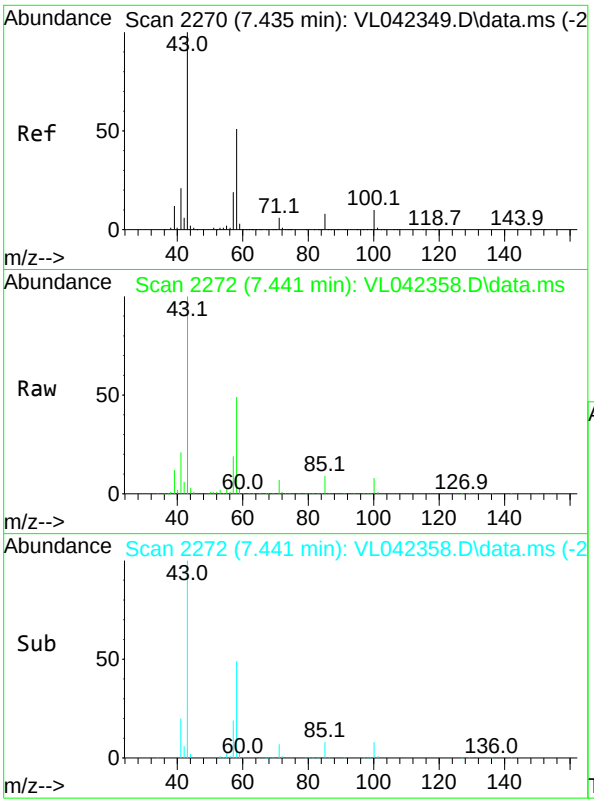


#50
4-Methyl-2-Pentanone
Concen: 8.810 ppbv
RT: 5.758 min Scan# 1752
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 43 Resp: 407804

Ion	Ratio	Lower	Upper
43	100		
58	36.2	28.6	43.0

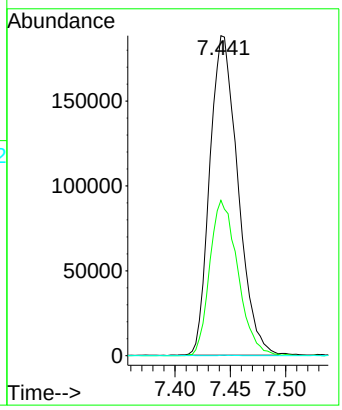




#51
2-Hexanone
Concen: 8.013 ppbv
RT: 7.441 min Scan# 2
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 43 Resp: 33264

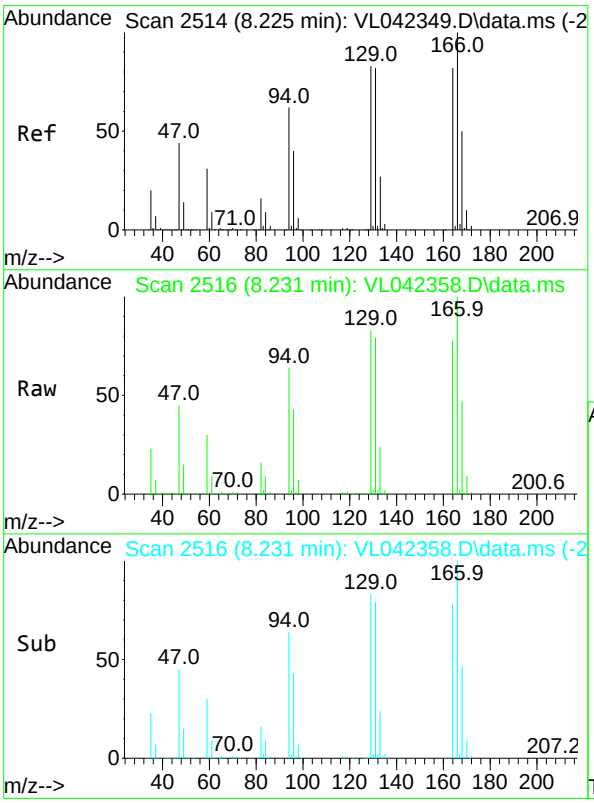
Ion	Ratio	Lower	Upper
43	100		
58	48.6	40.2	60.4
98	0.1	0.1	0.1



Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01

Manual Integrations
APPROVED

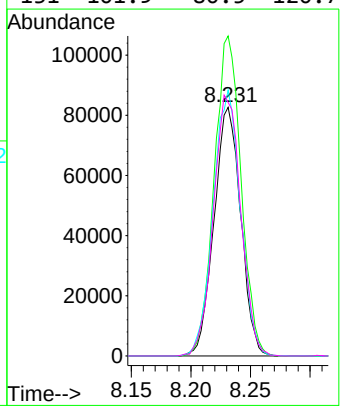
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

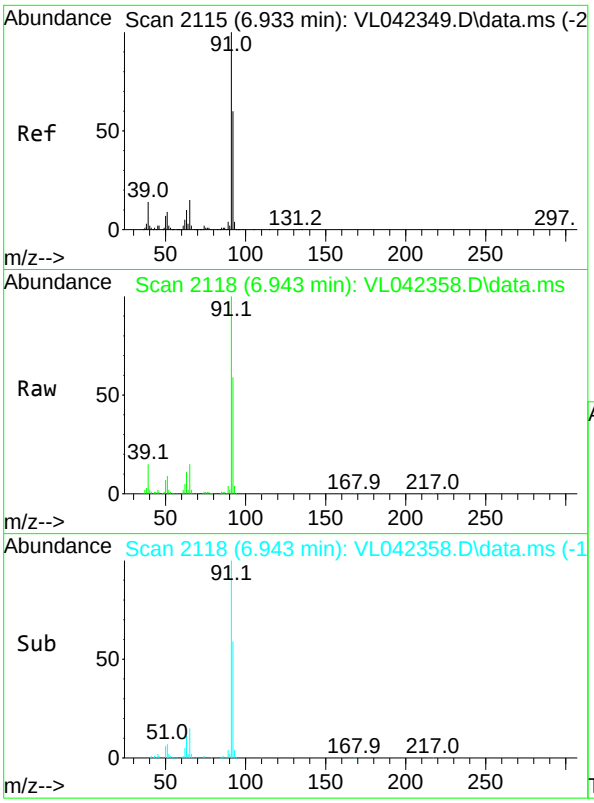


#52
Tetrachloroethene
Concen: 8.763 ppbv
RT: 8.231 min Scan# 2516
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

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

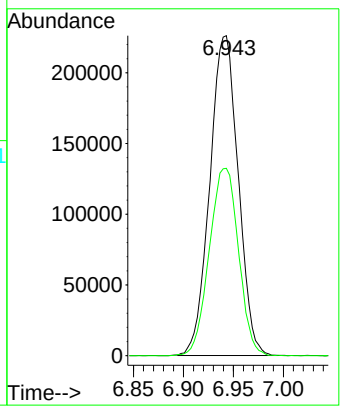




#53
Toluene
Concen: 9.818 ppbv
RT: 6.943 min Scan# 21
Delta R.T. 0.010 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 91 Resp: 44758

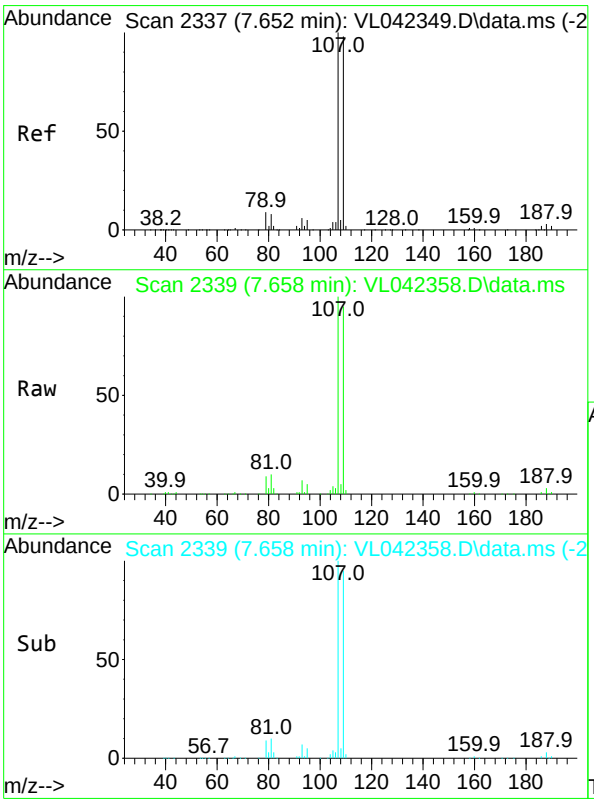
Ion	Ratio	Lower	Upper
91	100		
92	60.3	48.2	72.4



Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01

Manual Integrations
APPROVED

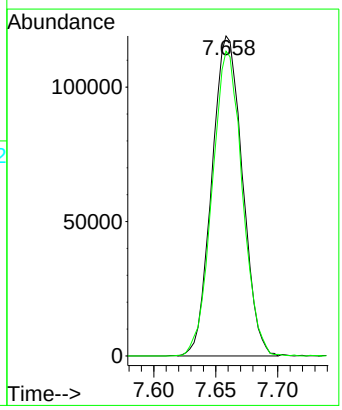
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

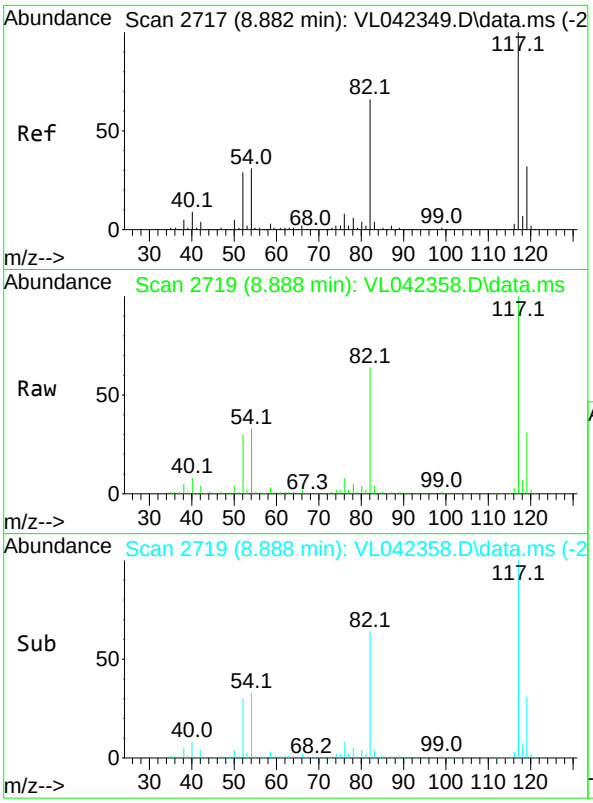


#54
1,2-Dibromoethane
Concen: 9.899 ppbv
RT: 7.658 min Scan# 2339
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion:107 Resp: 204328

Ion	Ratio	Lower	Upper
107	100		
109	95.1	78.2	117.4

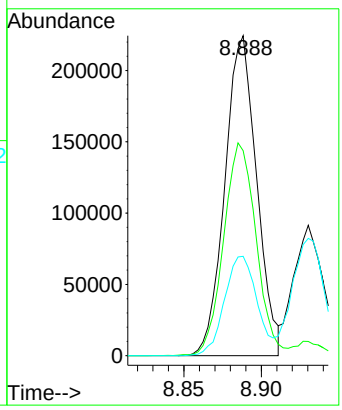




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.888 min Scan# 2
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion:117 Resp: 32152

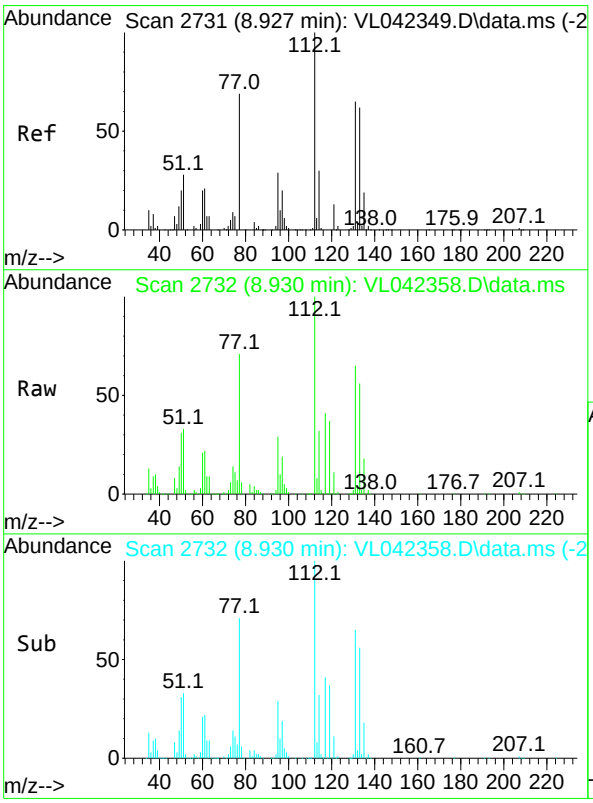
Ion	Ratio	Lower	Upper
117	100		
82	71.8	57.8	86.6
119	32.5	25.2	37.8



Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01

Manual Integrations
APPROVED

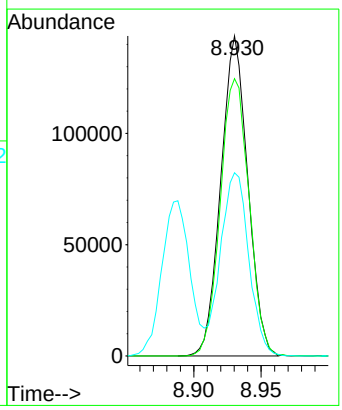
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

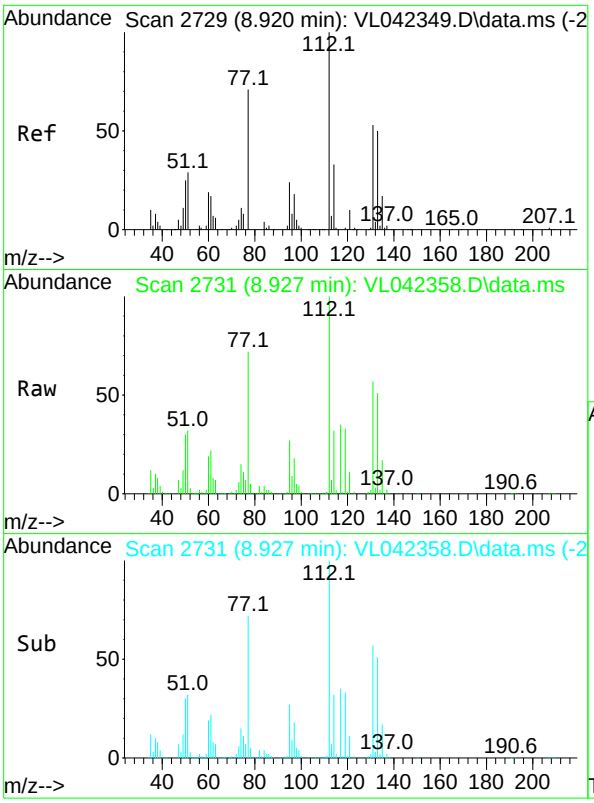


#56
1,1,1,2-Tetrachloroethane
Concen: 10.275 ppbv
RT: 8.930 min Scan# 2732
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

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

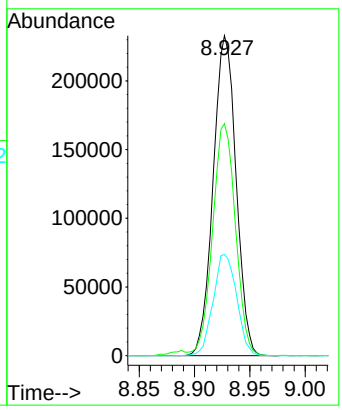




#57
Chlorobenzene
Concen: 10.022 ppbv
RT: 8.927 min Scan# 2
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion:112 Resp: 33514

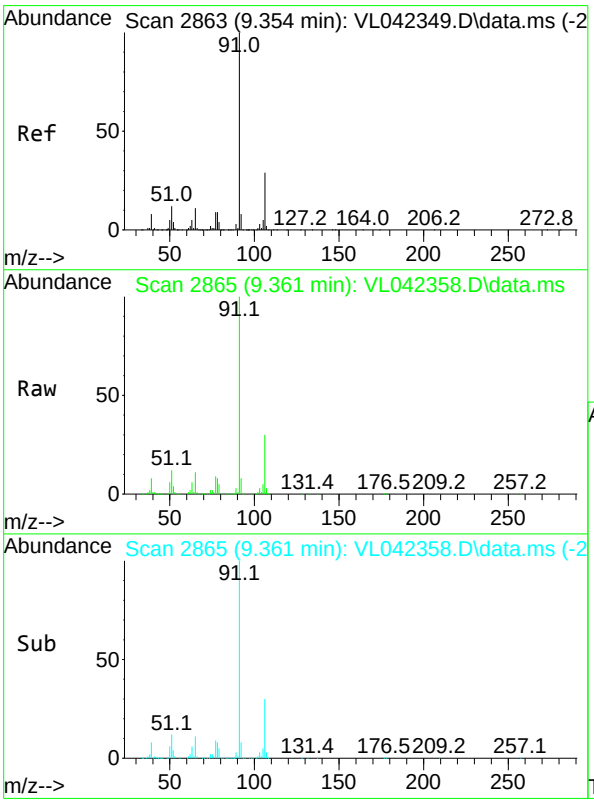
Ion	Ratio	Lower	Upper
112	100		
77	72.4	57.8	86.6
114	31.7	29.3	35.9



Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01

Manual Integrations
APPROVED

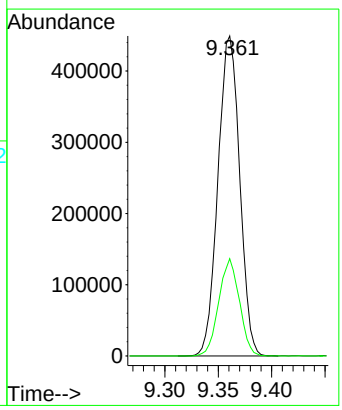
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

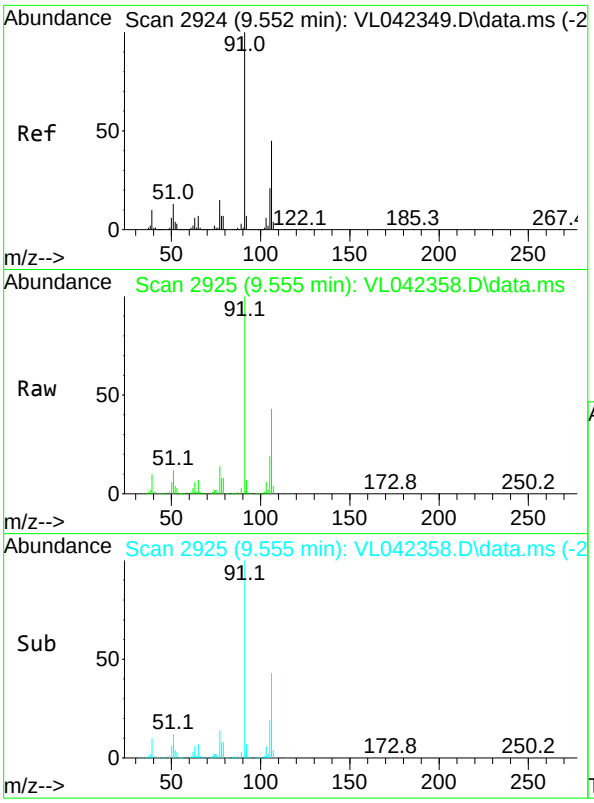


#58
Ethyl Benzene
Concen: 9.975 ppbv
RT: 9.361 min Scan# 2865
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 91 Resp: 635446

Ion	Ratio	Lower	Upper
91	100		
106	30.4	23.0	34.4

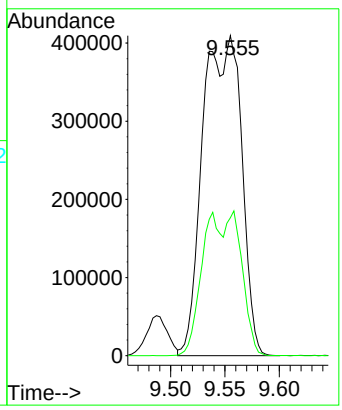




#59
m/p-Xylene
Concen: 19.806 ppbv m
RT: 9.555 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 91 Resp: 101640

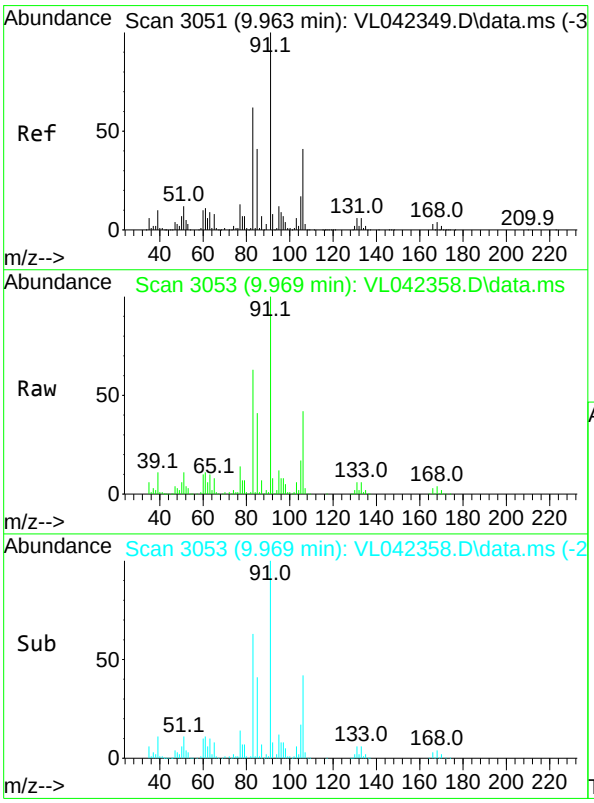
Ion	Ratio	Lower	Upper
91	100		
106	44.3	35.4	53.2



Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01

Manual Integrations
APPROVED

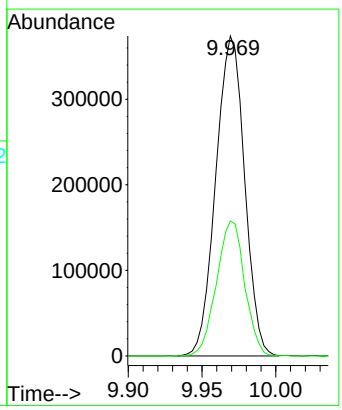
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

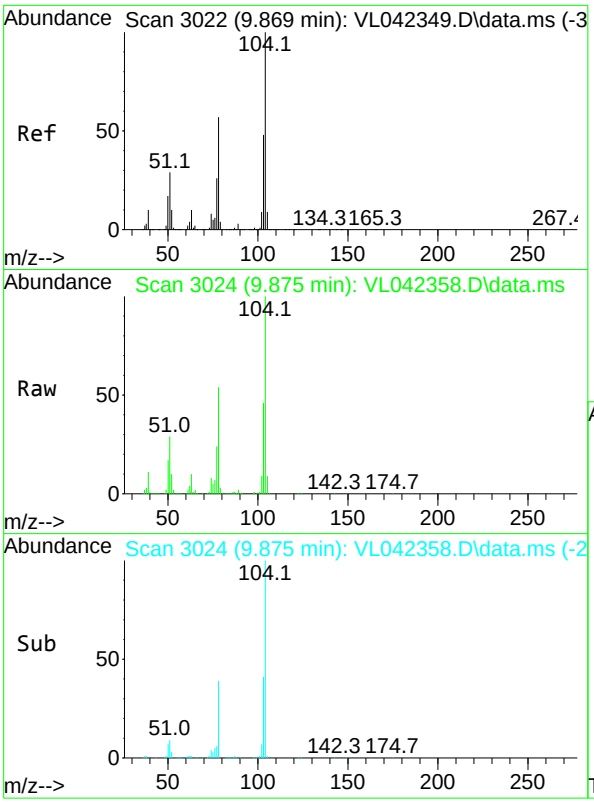


#60
o-Xylene
Concen: 9.802 ppbv
RT: 9.969 min Scan# 3053
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 91 Resp: 506535

Ion	Ratio	Lower	Upper
91	100		
106	41.4	21.1	63.4

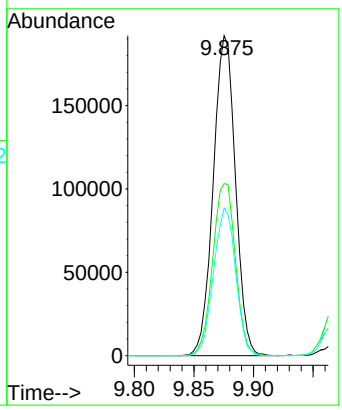




#61
Styrene
Concen: 10.055 ppbv
RT: 9.875 min Scan# 3
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion:104 Resp: 24802

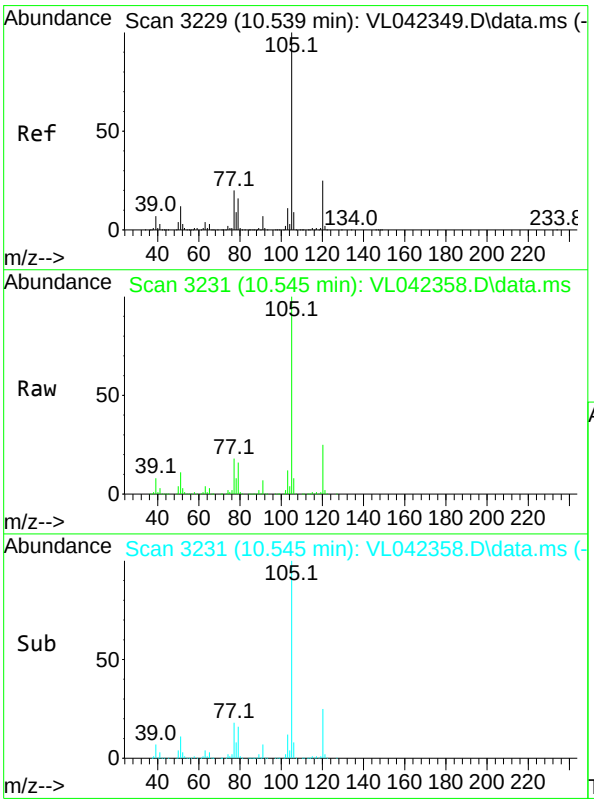
Ion	Ratio	Lower	Upper
104	100		
78	55.3	44.6	66.8
103	46.2	37.4	56.0



Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01

Manual Integrations
APPROVED

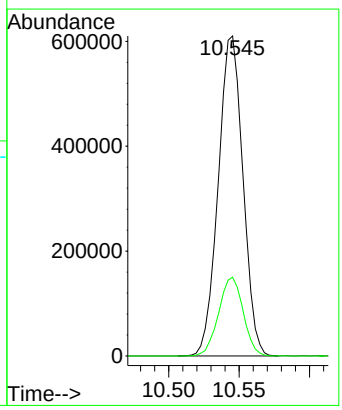
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

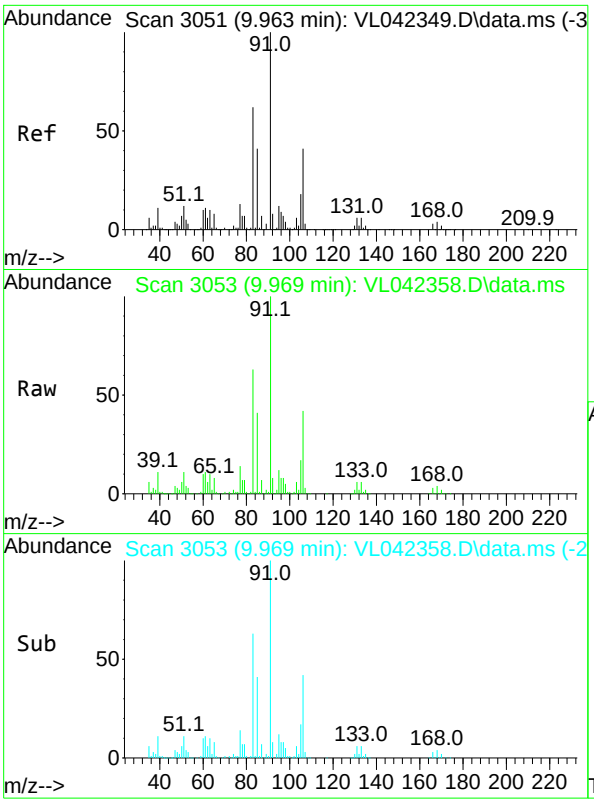


#62
Isopropylbenzene
Concen: 9.827 ppbv
RT: 10.545 min Scan# 3231
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

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

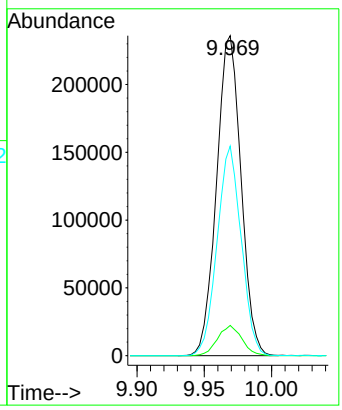
Tgt Ion: 83 Resp: 29858

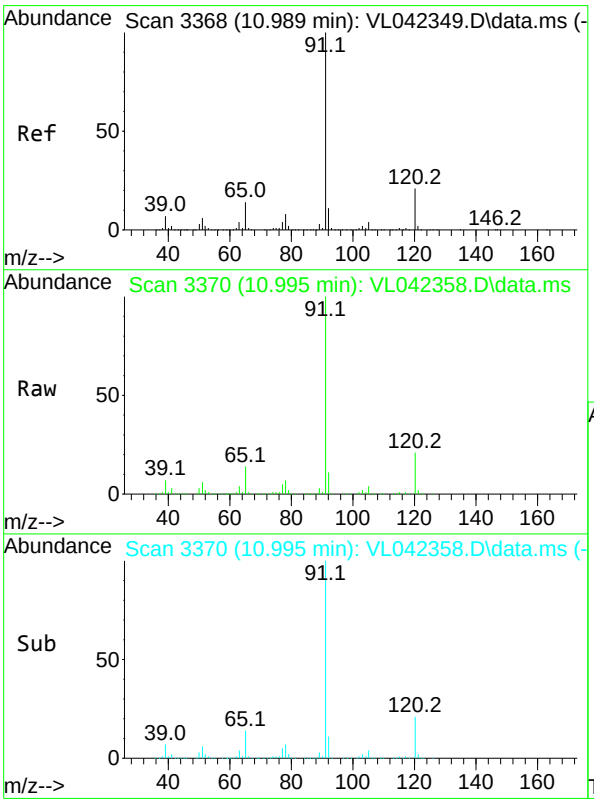
Ion	Ratio	Lower	Upper
83	100		
131	9.4	4.5	13.7
85	64.5	32.4	97.0

Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01

Manual Integrations
APPROVED

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

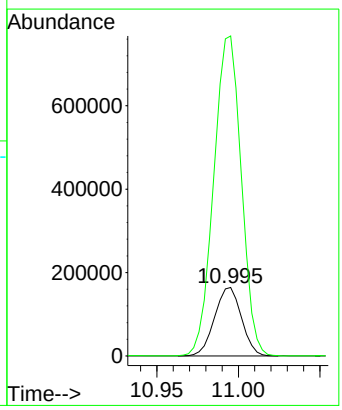


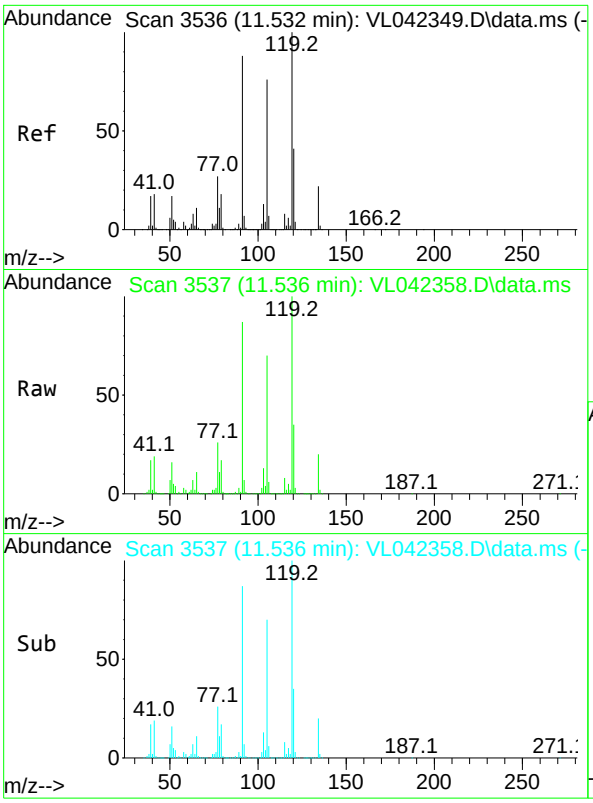


#64
n-propylbenzene
Concen: 9.875 ppbv
RT: 10.995 min Scan# 3370
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion:120 Resp: 188310

Ion	Ratio	Lower	Upper
120	100		
91	478.2	392.4	588.6

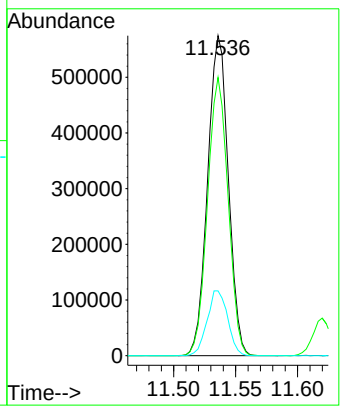




#65
tert-Butylbenzene
Concen: 9.589 ppbv
RT: 11.536 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion:119 Resp: 66868

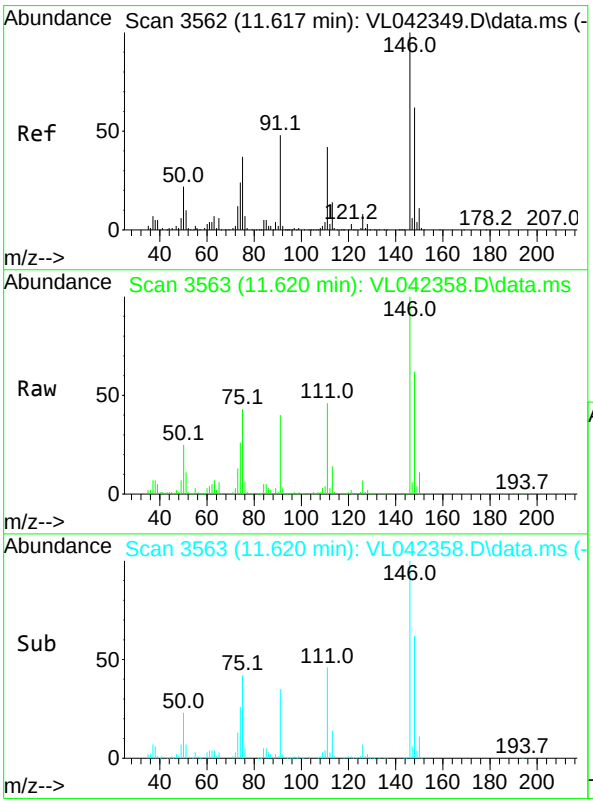
Ion	Ratio	Lower	Upper
119	100		
91	86.7	74.6	111.8
134	20.2	18.8	28.2



Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01

Manual Integrations
APPROVED

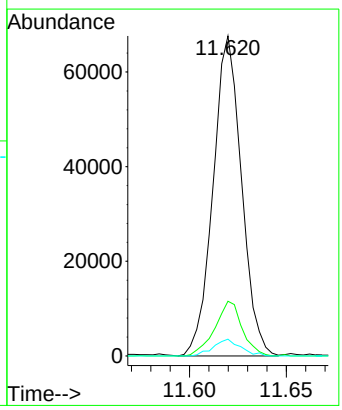
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

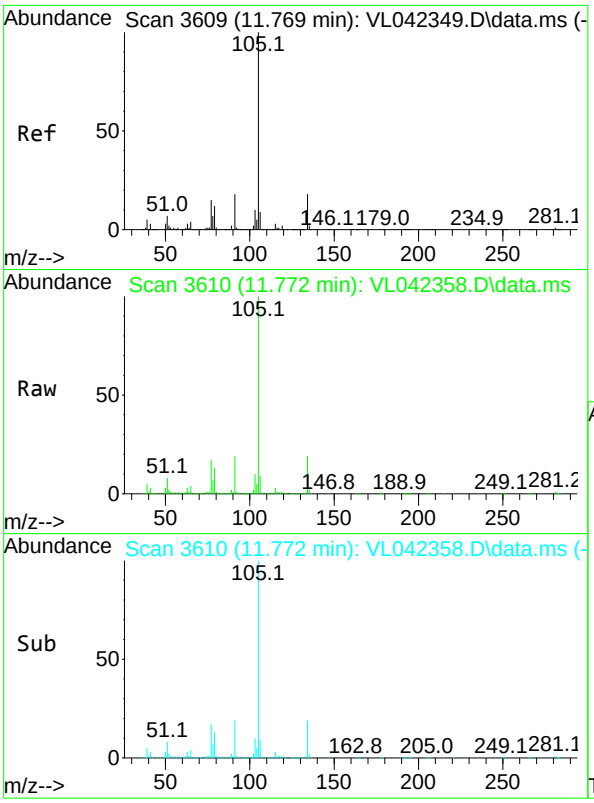


#66
Benzyl Chloride
Concen: 9.012 ppbv
RT: 11.620 min Scan# 3563
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

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

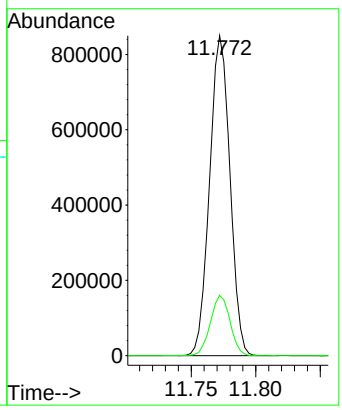




#67
sec-Butylbenzene
Concen: 9.592 ppbv
RT: 11.772 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion:105 Resp: 93042

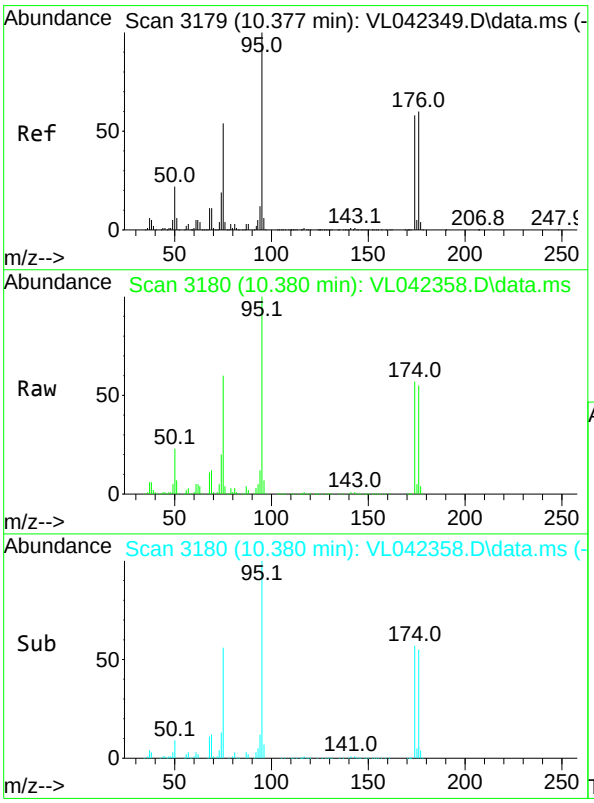
Ion	Ratio	Lower	Upper
105	100		
134	18.3	14.6	21.8



Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01

Manual Integrations
APPROVED

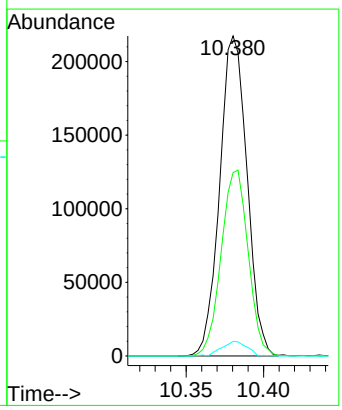
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

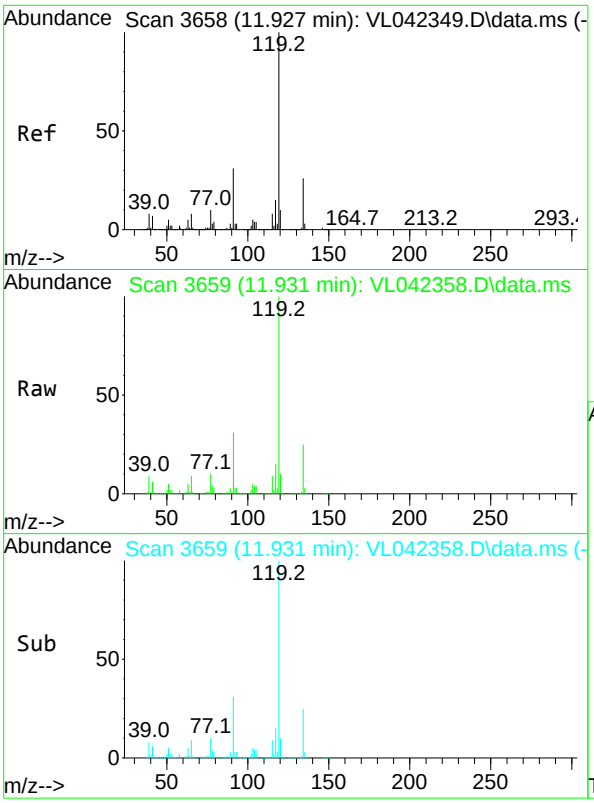


#68
1-Bromo-4-Fluorobenzene
Concen: 10.096 ppbv
RT: 10.380 min Scan# 3180
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

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

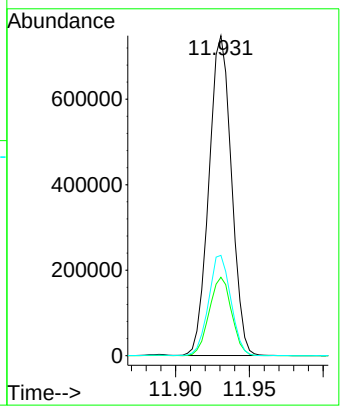




#69
p-Isopropyltoluene
Concen: 9.441 ppbv
RT: 11.931 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion:119 Resp: 79553

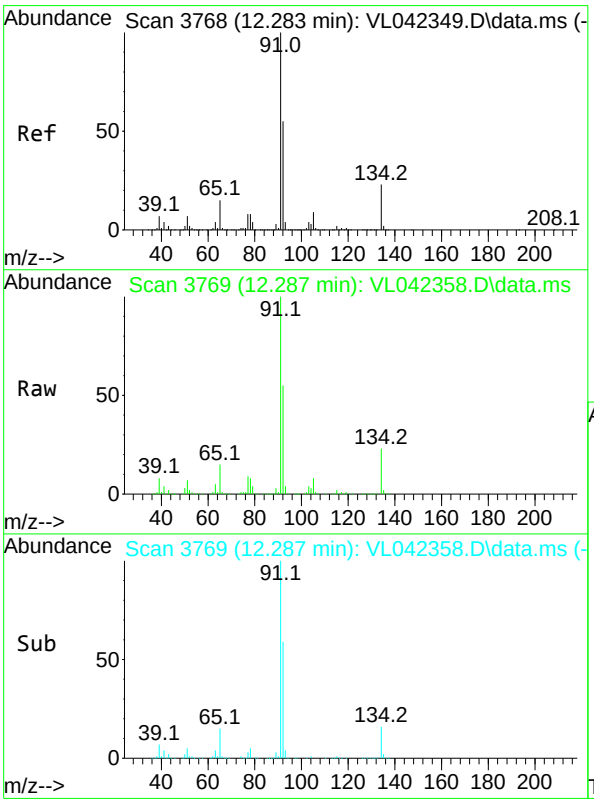
Ion	Ratio	Lower	Upper
119	100		
134	24.5	20.0	30.0
91	31.2	24.4	36.6



Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01

Manual Integrations
APPROVED

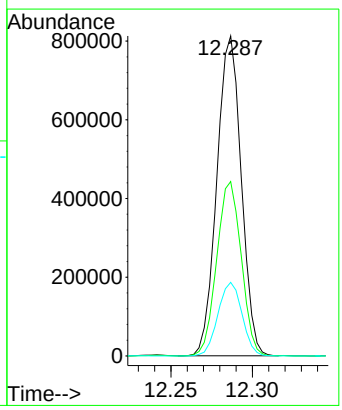
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

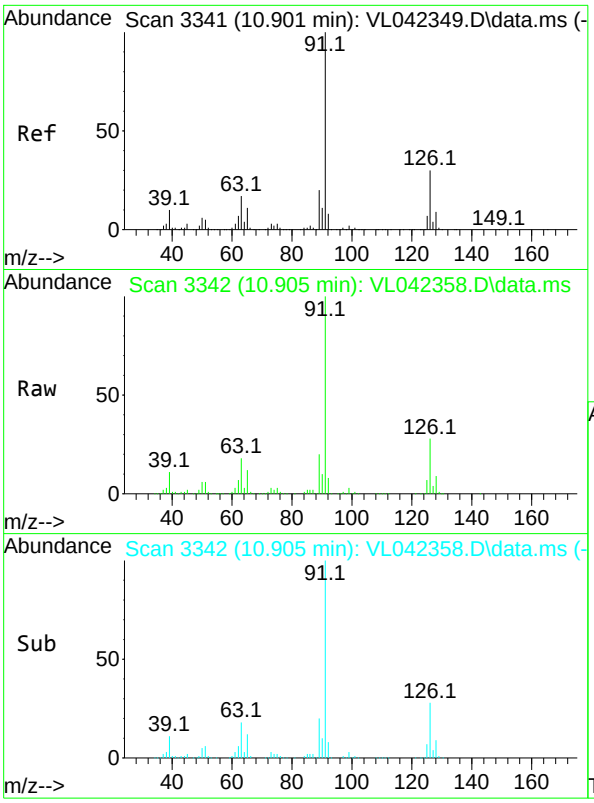


#70
n-Butylbenzene
Concen: 9.644 ppbv
RT: 12.287 min Scan# 3769
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

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

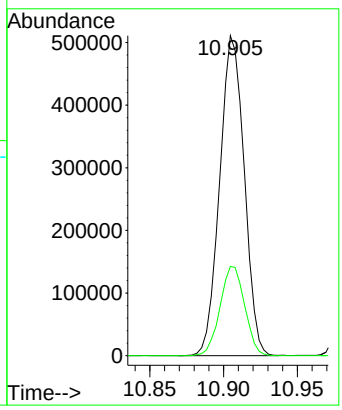




#71
2-Chlorotoluene
Concen: 9.934 ppbv
RT: 10.905 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 91 Resp: 59115

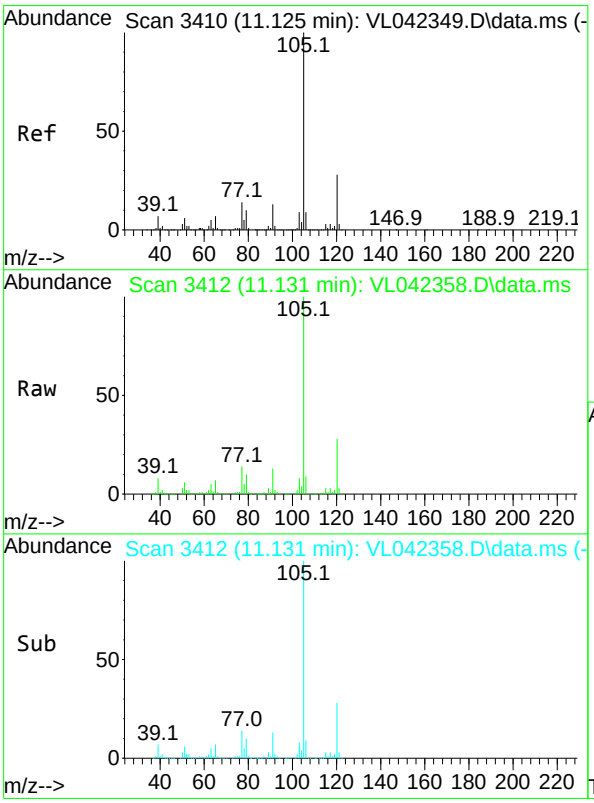
Ion	Ratio	Lower	Upper
91	100		
126	27.9	11.4	45.4



Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01

Manual Integrations
APPROVED

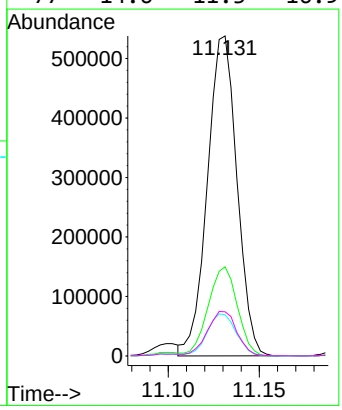
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

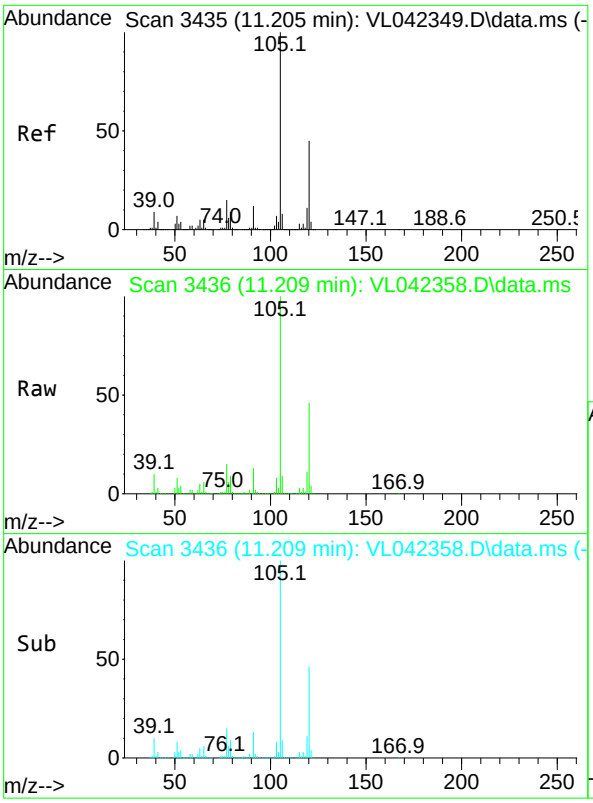


#72
4-Ethyltoluene
Concen: 9.606 ppbv
RT: 11.131 min Scan# 3412
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

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# 34
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

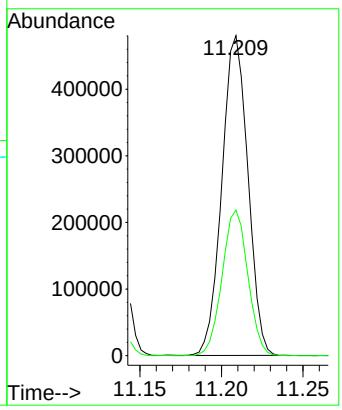
Tgt Ion:105 Resp: 53306

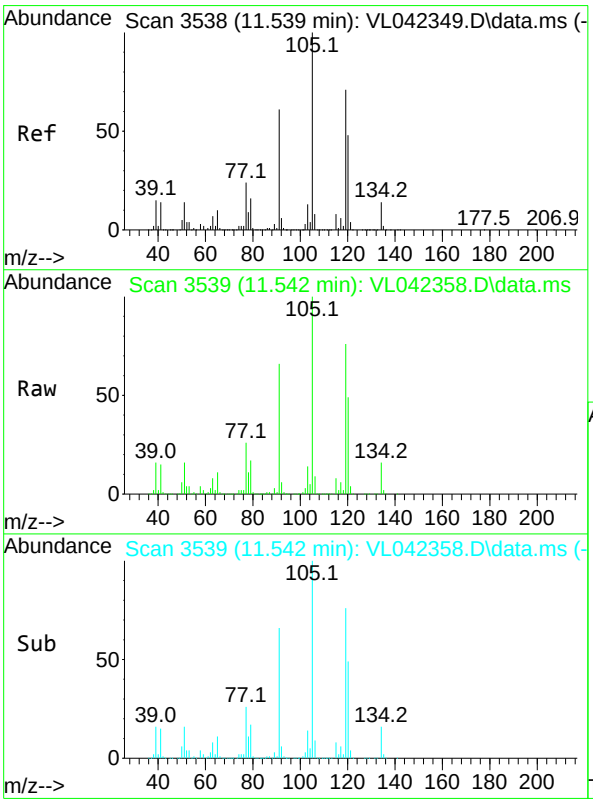
Ion	Ratio	Lower	Upper
105	100		
120	45.6	35.6	53.4

Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01

Manual Integrations
APPROVED

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

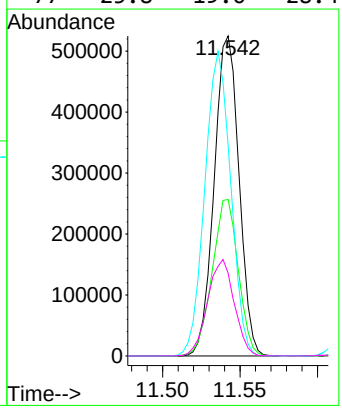


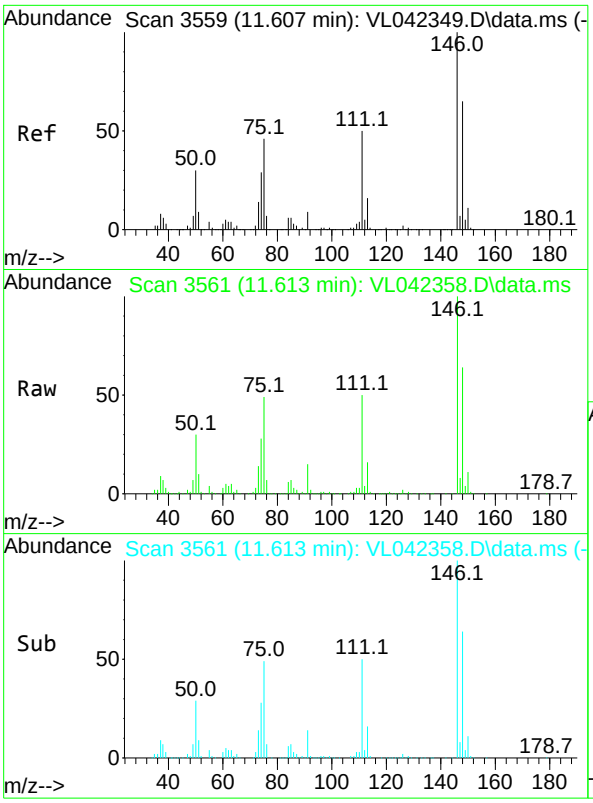


#74
1,2,4-Trimethylbenzene
Concen: 8.976 ppbv
RT: 11.542 min Scan# 3539
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

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

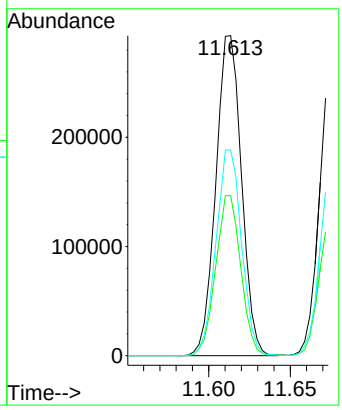




#75
1,3-Dichlorobenzene
Concen: 9.474 ppbv
RT: 11.613 min Scan# 3
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion:146 Resp: 32081

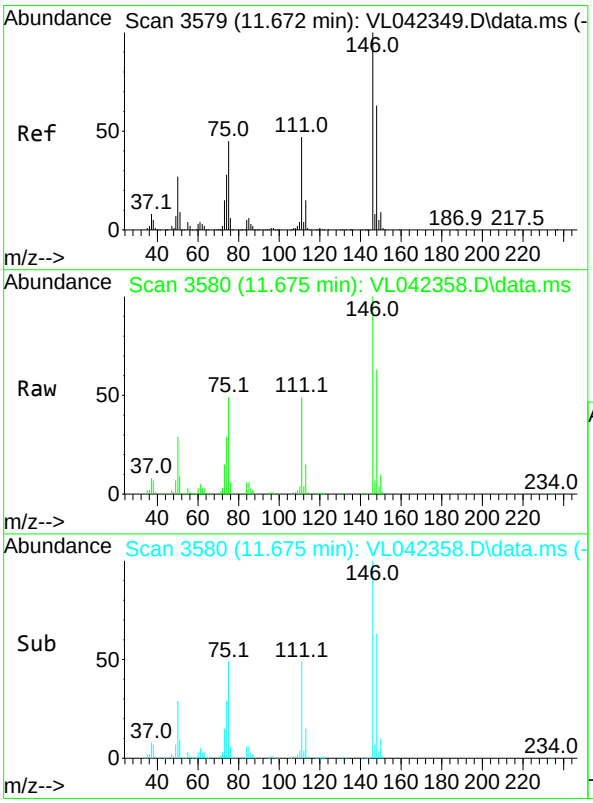
Ion	Ratio	Lower	Upper
146	100		
111	48.8	24.3	72.8
148	64.0	31.6	94.8



Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01

Manual Integrations
APPROVED

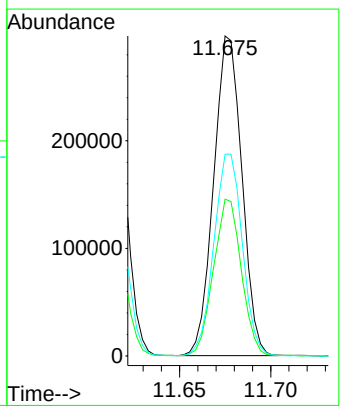
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

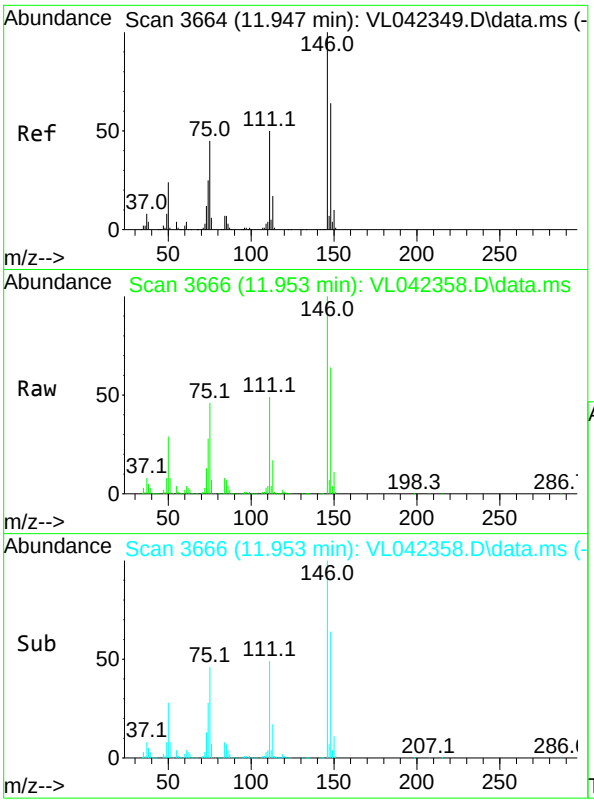


#76
1,4-Dichlorobenzene
Concen: 9.384 ppbv
RT: 11.675 min Scan# 3580
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

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

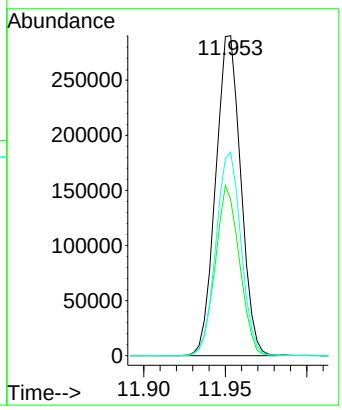




#77
1,2-Dichlorobenzene
Concen: 9.459 ppbv
RT: 11.953 min Scan# 3
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion:146 Resp: 31146

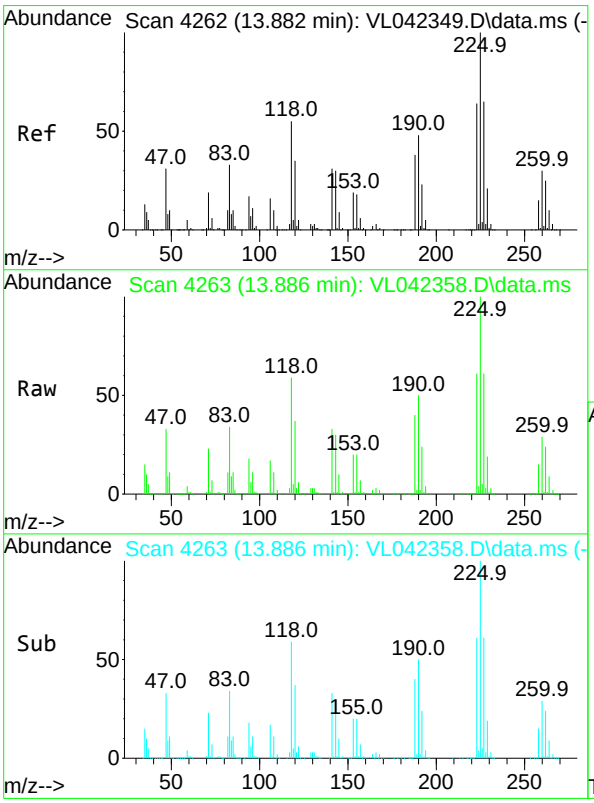
Ion	Ratio	Lower	Upper
146	100		
111	51.4	25.3	75.9
148	63.4	31.5	94.5



Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01

Manual Integrations
APPROVED

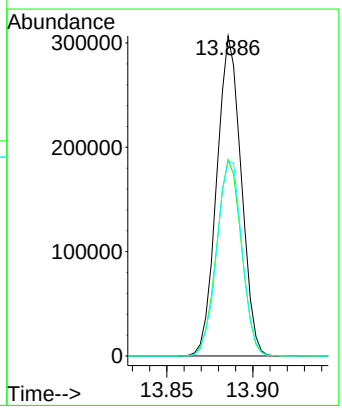
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

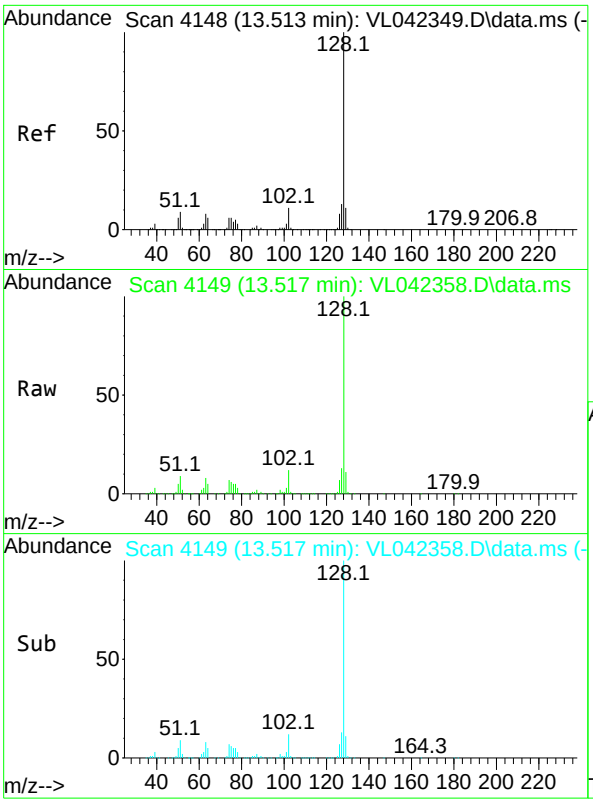


#78
Hexachloro-1,3-Butadiene
Concen: 9.124 ppbv
RT: 13.886 min Scan# 4263
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

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

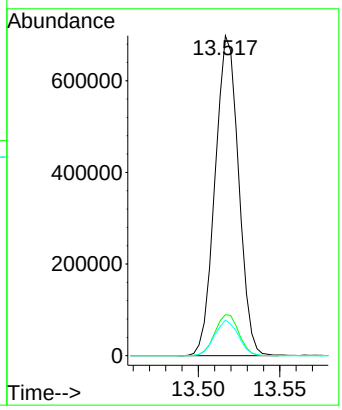




#79
Naphthalene
Concen: 8.999 ppbv
RT: 13.517 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion:128 Resp: 70101

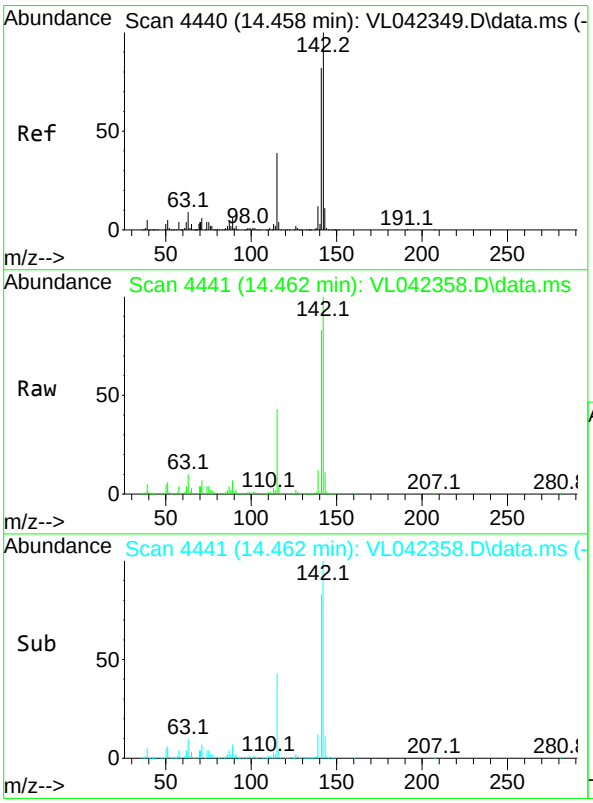
Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.6	15.8
129	11.1	8.6	12.8



Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01

Manual Integrations
APPROVED

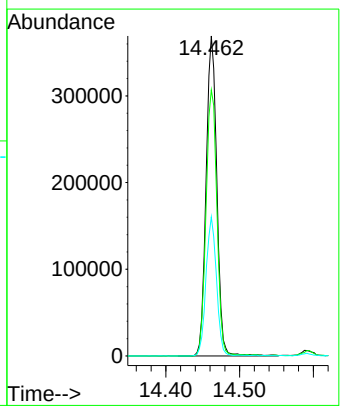
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

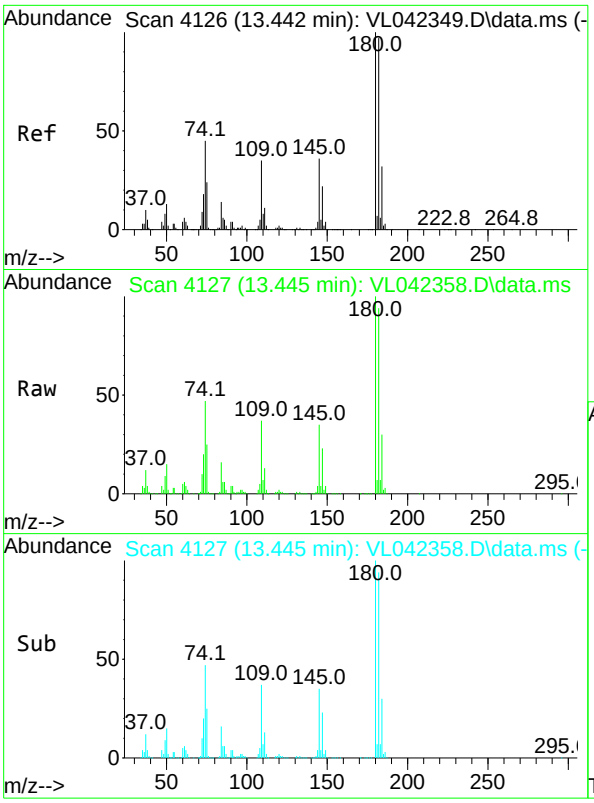


#80
Naphthalene,2-methyl-
Concen: 8.331 ppbv
RT: 14.462 min Scan# 4441
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

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

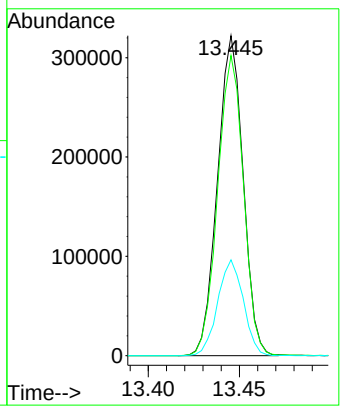




#81
1,2,4-Trichlorobenzene
Concen: 9.417 ppbv
RT: 13.445 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

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

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:	VL0418ABS01	SDG No.:	Q1726
Lab Sample ID:	VL0418ABS01	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
VL042385.D	1		04/18/25 11:38	VL041825

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	9.30	46.0		1.04	2.47	ug/m3
64-17-5	Ethanol	2.30	4.33		0.60	0.94	ug/m3
74-87-3	Chloromethane	8.60	17.8		0.21	1.03	ug/m3
75-01-4	Vinyl Chloride	7.60	19.4		0.030	0.080	ug/m3
74-83-9	Bromomethane	8.50	33.0		0.54	1.94	ug/m3
75-00-3	Chloroethane	8.30	21.9		0.45	1.32	ug/m3
109-99-9	Tetrahydrofuran	6.90	20.4		0.38	1.47	ug/m3
75-69-4	Trichlorofluoromethane	9.50	53.4		0.90	2.81	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	8.90	68.2		1.23	3.83	ug/m3
76-14-2	Dichlorotetrafluoroethane	9.10	63.6		0.63	3.49	ug/m3
593-60-2	Bromoethene	9.10	39.8		0.52	2.19	ug/m3
75-65-0	tert-Butyl alcohol	8.20	24.9		0.58	1.52	ug/m3
142-82-5	Heptane	6.80	27.9		0.45	2.05	ug/m3
67-63-0	Isopropyl Alcohol	8.20	20.2		0.17	1.23	ug/m3
75-35-4	1,1-Dichloroethene	8.70	34.5		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	8.70	27.1		0.50	1.56	ug/m3
1634-04-4	Methyl tert-Butyl Ether	8.30	29.9		0.43	1.80	ug/m3
75-09-2	Methylene Chloride	7.40	25.7		0.66	1.74	ug/m3
156-60-5	trans-1,2-Dichloroethene	8.70	34.5		0.75	1.98	ug/m3
75-34-3	1,1-Dichloroethane	8.90	36.0		0.53	2.02	ug/m3
110-82-7	Cyclohexane	8.10	27.9		0.76	1.72	ug/m3
78-93-3	2-Butanone	7.20	21.2		0.35	1.47	ug/m3
56-23-5	Carbon Tetrachloride	8.60	54.1		0.060	0.19	ug/m3
156-59-2	cis-1,2-Dichloroethene	8.60	34.1		0.36	1.98	ug/m3
67-66-3	Chloroform	9.10	44.4		0.39	2.44	ug/m3
71-55-6	1,1,1-Trichloroethane	8.90	48.6		0.050	0.16	ug/m3
540-84-1	2,2,4-Trimethylpentane	7.20	33.6		0.47	2.34	ug/m3
71-43-2	Benzene	7.70	24.6		0.29	1.60	ug/m3
107-06-2	1,2-Dichloroethane	8.70	35.2		0.36	2.02	ug/m3
79-01-6	Trichloroethene	7.60	40.8		0.11	0.16	ug/m3
78-87-5	1,2-Dichloropropane	7.20	33.3		0.51	2.31	ug/m3
75-27-4	Bromodichloromethane	8.50	56.9		0.54	3.35	ug/m3
108-10-1	4-Methyl-2-Pentanone	6.40	26.2		0.37	2.05	ug/m3
108-88-3	Toluene	7.60	28.6		0.41	1.88	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:	VL0418ABS01	SDG No.:	Q1726
Lab Sample ID:	VL0418ABS01	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
VL042385.D	1		04/18/25 11:38	VL041825

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	7.60	34.5		0.27	2.27	ug/m3
10061-01-5	cis-1,3-Dichloropropene	7.50	34.0		0.27	2.27	ug/m3
79-00-5	1,1,2-Trichloroethane	8.20	44.7		0.38	2.73	ug/m3
124-48-1	Dibromochloromethane	8.80	75.0		0.60	4.26	ug/m3
106-93-4	1,2-Dibromoethane	8.20	63.0		0.54	0.77	ug/m3
127-18-4	Tetrachloroethene	7.70	52.2		0.14	0.20	ug/m3
108-90-7	Chlorobenzene	8.40	38.7		0.37	2.30	ug/m3
100-41-4	Ethyl Benzene	8.10	35.2		0.52	2.17	ug/m3
179601-23-1	m/p-Xylene	16.4	71.2		0.91	4.34	ug/m3
95-47-6	o-Xylene	8.20	35.6		0.52	2.17	ug/m3
100-42-5	Styrene	8.20	34.9		0.47	2.13	ug/m3
75-25-2	Bromoform	8.80	91.0		0.62	5.17	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	7.30	50.1		0.070	0.21	ug/m3
95-49-8	2-Chlorotoluene	8.20	42.5		0.57	2.59	ug/m3
108-67-8	1,3,5-Trimethylbenzene	8.10	39.8		0.54	2.46	ug/m3
95-63-6	1,2,4-Trimethylbenzene	7.70	37.9		0.39	2.46	ug/m3
541-73-1	1,3-Dichlorobenzene	8.60	51.7		0.48	3.01	ug/m3
106-46-7	1,4-Dichlorobenzene	8.50	51.1		0.30	3.01	ug/m3
95-50-1	1,2-Dichlorobenzene	8.40	50.5		0.48	3.01	ug/m3
120-82-1	1,2,4-Trichlorobenzene	8.40	62.4		0.67	3.71	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	8.60	91.7		0.96	5.33	ug/m3
106-99-0	1,3-Butadiene	7.60	16.8		0.29	1.11	ug/m3
91-20-3	Naphthalene	7.70	40.4		0.42	0.52	ug/m3
622-96-8	4-Ethyltoluene	8.30	40.8		0.59	2.46	ug/m3
110-54-3	Hexane	7.60	26.8		0.39	1.76	ug/m3
107-05-1	Allyl Chloride	8.00	25.0		0.47	1.57	ug/m3
123-91-1	1,4-Dioxane	6.80	24.5		0.76	1.80	ug/m3
80-62-6	Methyl Methacrylate	6.90	28.3		0.37	2.05	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	138000		2.781			
540-36-3	1,4-Difluorobenzene	422000		3.952			
3114-55-4	Chlorobenzene-d5	372000		8.875			

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:	VL0418ABS01	SDG No.:	Q1726
Lab Sample ID:	VL0418ABS01	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
VL042385.D	1		04/18/25 11:38	VL041825

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\VL041825\
Data File : VL042385.D
Acq On : 18 Apr 2025 11:38
Operator : SY/MD
Sample : VL0418ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 18 22:56:38 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 :
VL0418ABS01

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.781	49	137596	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	421834	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	371546	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.371	95	306062	10.024	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 100.200%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.496	85	226018	9.297	ppbv	97
3) Chlorodifluoromethane	1.473	51	188655	8.149	ppbv	97
4) Chloromethane	1.531	50	83080	8.636	ppbv	98
5) Vinyl Chloride	1.577	62	79548	7.596	ppbv	97
6) Bromomethane	1.664	94	38033	8.454	ppbv	90
7) Chloroethane	1.703	64	31293	8.263	ppbv	90
8) Dichlorotetrafluoroethane	1.551	85	190713	9.137	ppbv	98
9) Propene	1.483	41	72956	6.920	ppbv	99
10) Heptane	4.972	43	201993	6.820	ppbv	98
11) Trichlorofluoromethane	1.874	101	219477	9.494	ppbv	100
12) 1,1,2-Trichlorotrifluo...	2.137	101	167879	8.881	ppbv	97
13) Ethanol	1.719	45	3800	2.268	ppbv	96
14) Bromoethene	1.777	108	65024	9.126	ppbv	99
15) Acetone	1.832	43	164938	7.322	ppbv	98
16) 1,3-Butadiene	1.606	39	81350	7.551	ppbv	94
17) tert-Butyl alcohol	2.036	59	228926	8.201	ppbv	99
18) 1,1-Dichloroethene	2.030	96	76914	8.710	ppbv	98
19) Isopropyl Alcohol	1.884	45	103131	8.242	ppbv	99
20) Methylene Chloride	2.059	84	64925	7.360	ppbv	93
21) Allyl Chloride	2.091	41	123726	7.955	ppbv	98
22) trans-1,2-Dichloroethene	2.337	96	87708	8.723	ppbv	92
23) Vinyl Acetate	2.457	43	60750	6.663	ppbv #	96
24) 1,1-Dichloroethane	2.405	63	169635	8.882	ppbv	98
25) Ethyl Acetate	2.832	43	426071	7.672	ppbv	100
26) Hexane	2.823	57	170131	7.570	ppbv	97
27) Carbon Disulfide	2.146	76	208766	8.676	ppbv	98
28) Methyl tert-Butyl Ether	2.434	73	122891	8.345	ppbv	93
29) Chloroform	2.845	83	290070	9.131	ppbv	99
30) Cyclohexane	3.849	84	147689	8.129	ppbv	96
31) cis-1,2-Dichloroethene	2.716	61	184087	8.615	ppbv	97
32) 1,1,1-Trichloroethane	3.363	97	317651	8.882	ppbv	99
34) 2-Butanone	2.554	43	240467	7.208	ppbv	98
35) Carbon Tetrachloride	3.755	117	326652	8.556	ppbv	95
36) Benzene	3.651	78	349571	7.683	ppbv	96
37) 1,2-Dichloroethane	3.214	62	236222	8.650	ppbv	97
38) Trichloroethene	4.538	130	150355	7.561	ppbv	97
39) 1,2-Dichloropropane	4.305	63	122577	7.229	ppbv	94
40) 1,4-Dioxane	4.577	88	63539	6.819	ppbv #	91
41) Tetrahydrofuran	3.049	42	133932	6.885	ppbv	100
42) Bromodichloromethane	4.480	83	324378	8.535	ppbv	98
43) Methyl Methacrylate	4.875	69	142005	6.925	ppbv	97
44) 2,2,4-Trimethylpentane	4.635	57	567587	7.223	ppbv	97
45) t-1,3-Dichloropropene	6.406	75	159210	7.601	ppbv	93

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041825\
Data File : VL042385.D
Acq On : 18 Apr 2025 11:38
Operator : SY/MD
Sample : VL0418ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 18 22:56:38 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 :
VL0418ABS01

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) cis-1,3-Dichloropropene	5.590	75	192875	7.523	ppbv		90
47) 1,1,2-Trichloroethane	6.574	97	141009	8.163	ppbv		97
48) Dibromochloromethane	7.380	129	267219	8.756	ppbv		99
49) Bromoform	9.477	173	235451	8.823	ppbv		99
50) 4-Methyl-2-Pentanone	5.742	43	357049	6.440	ppbv		100
51) 2-Hexanone	7.432	43	284839	5.729	ppbv		98
52) Tetrachloroethene	8.218	164	134768	7.663	ppbv		97
53) Toluene	6.924	91	416429	7.627	ppbv		100
54) 1,2-Dibromoethane	7.645	107	202809	8.204	ppbv		95
56) 1,1,1,2-Tetrachloroethane	8.917	131	204475	9.093	ppbv		97
57) Chlorobenzene	8.917	112	326071	8.438	ppbv		98
58) Ethyl Benzene	9.351	91	597552	8.117	ppbv		97
59) m/p-Xylene	9.545	91	974158m	16.427	ppbv		
60) o-Xylene	9.960	91	489890	8.203	ppbv		98
61) Styrene	9.866	104	232960	8.173	ppbv		99
62) Isopropylbenzene	10.536	105	734342	8.376	ppbv		99
63) 1,1,2,2-Tetrachloroethane	9.960	83	282429	7.298	ppbv		99
64) n-propylbenzene	10.986	120	184746	8.383	ppbv		96
65) tert-Butylbenzene	11.529	119	665320	8.256	ppbv		92
66) Benzyl Chloride	11.610	91	55103	6.223	ppbv		94
67) sec-Butylbenzene	11.766	105	911164	8.129	ppbv		98
69) p-Isopropyltoluene	11.921	119	799331	8.209	ppbv		99
70) n-Butylbenzene	12.277	91	817538	8.061	ppbv		99
71) 2-Chlorotoluene	10.895	91	562487	8.180	ppbv		98
72) 4-Ethyltoluene	11.121	105	602711	8.256	ppbv		99
73) 1,3,5-Trimethylbenzene	11.199	105	524369	8.135	ppbv		100
74) 1,2,4-Trimethylbenzene	11.533	105	583351	7.749	ppbv	#	91
75) 1,3-Dichlorobenzene	11.604	146	335533	8.575	ppbv		99
76) 1,4-Dichlorobenzene	11.668	146	335101	8.520	ppbv		99
77) 1,2-Dichlorobenzene	11.944	146	319466	8.396	ppbv		99
78) Hexachloro-1,3-Butadiene	13.879	225	329813	8.584	ppbv		99
79) Naphthalene	13.510	128	691058	7.676	ppbv		99
80) Naphthalene,2-methyl-	14.455	142	380016	7.407	ppbv		99
81) 1,2,4-Trichlorobenzene	13.436	180	325017	8.408	ppbv		100

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

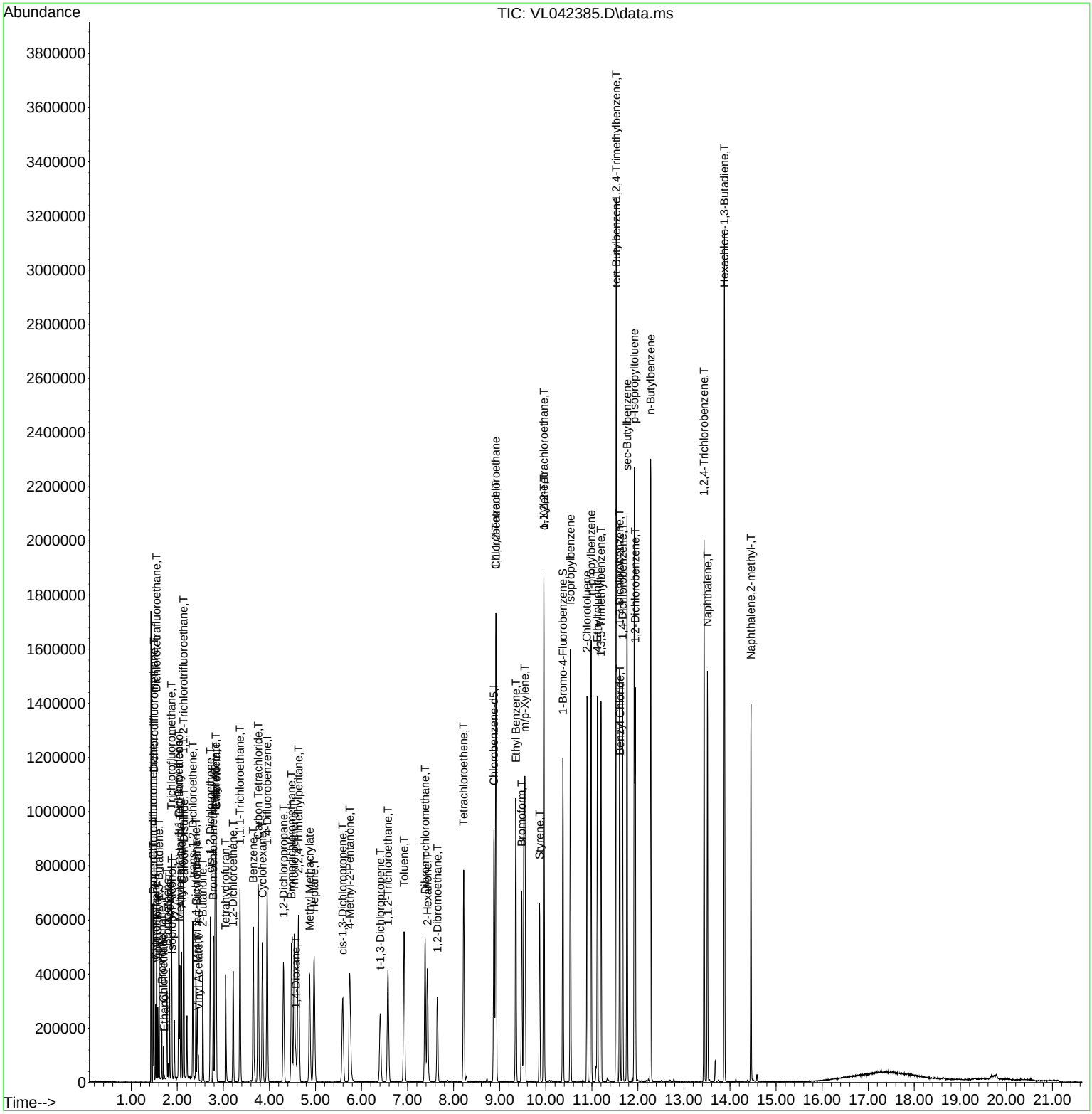
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041825\
Data File : VL042385.D
Acq On : 18 Apr 2025 11:38
Operator : SY/MD
Sample : VL0418ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

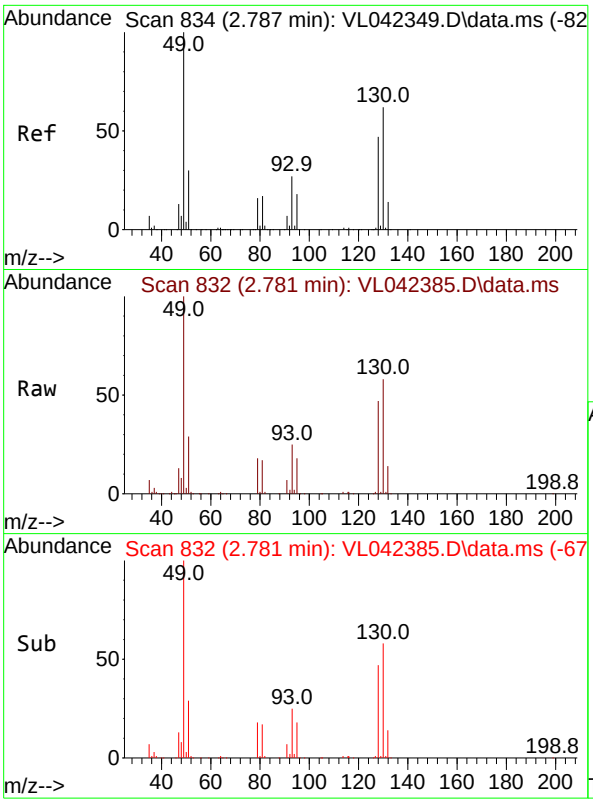
Quant Time: Apr 18 22:56:38 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VL0418ABS01

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025

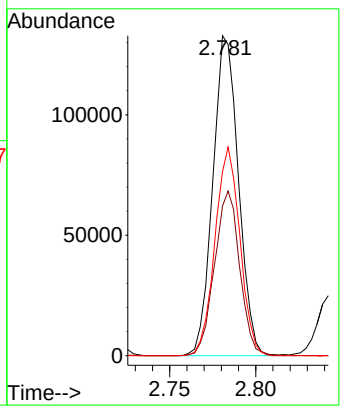




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.781 min Scan# 8
Delta R.T. -0.006 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Tgt Ion: 49 Resp: 13759

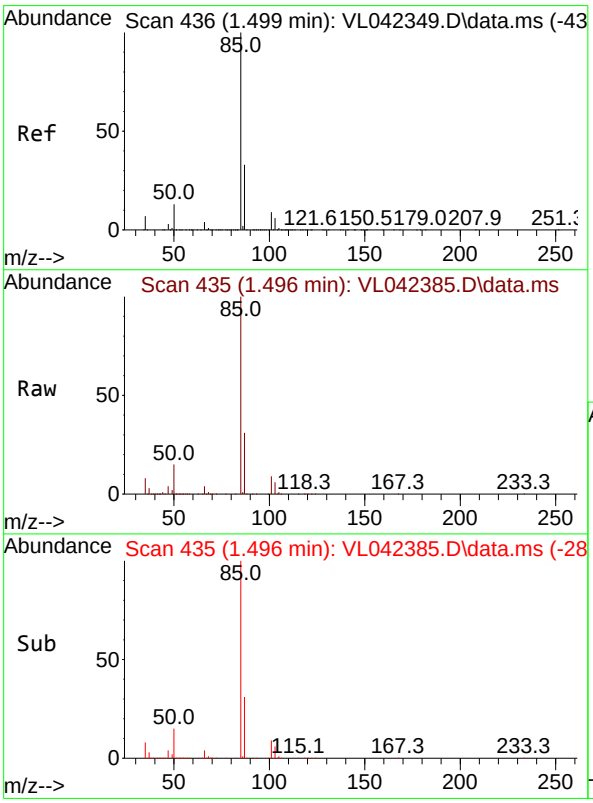
Ion	Ratio	Lower	Upper
49	100		
128	50.6	22.8	68.4
130	63.3	29.3	88.0



Instrument :
MSVOA_L
ClientSampleId :
VL0418ABS01

Manual Integrations
APPROVED

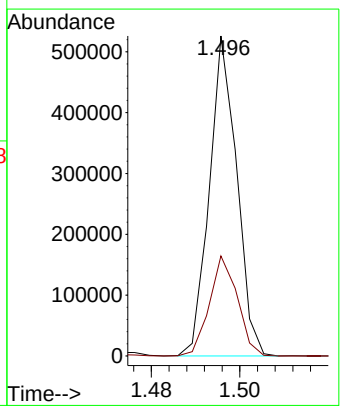
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025

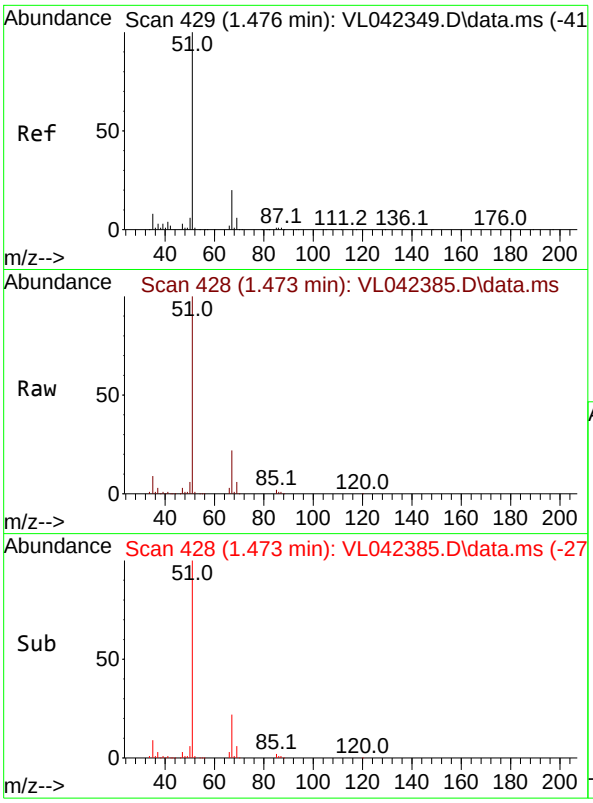


#2
Dichlorodifluoromethane
Concen: 9.297 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.003 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Tgt Ion: 85 Resp: 226018

Ion	Ratio	Lower	Upper
85	100		
87	31.3	26.6	39.8

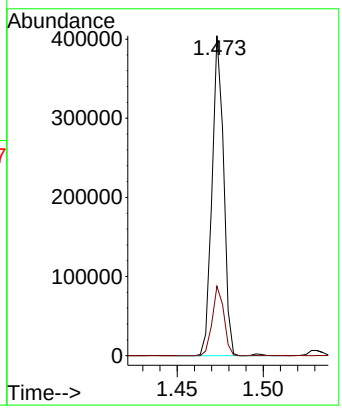




#3
Chlorodifluoromethane
Concen: 8.149 ppbv
RT: 1.473 min Scan# 4
Delta R.T. -0.003 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Tgt Ion: 51 Resp: 18865

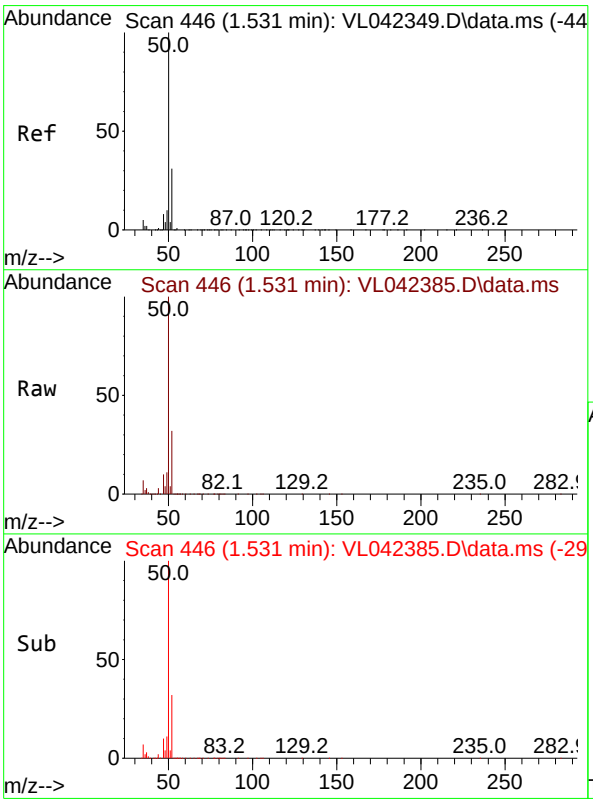
Ion	Ratio	Lower	Upper
51	100		
67	21.8	16.2	24.4



Instrument :
MSVOA_L
ClientSampleId :
VL0418ABS01

Manual Integrations
APPROVED

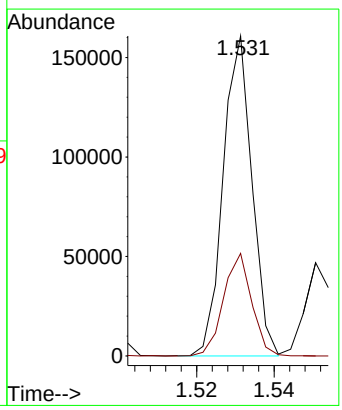
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025

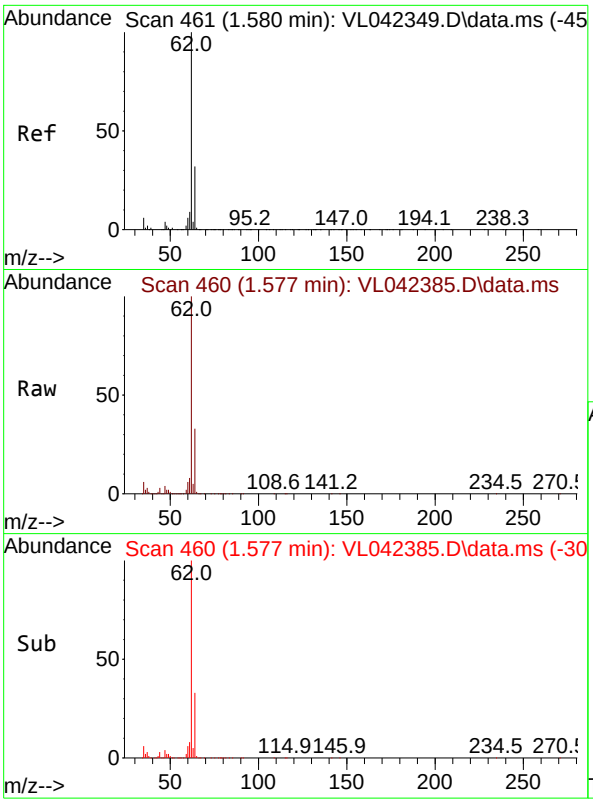


#4
Chloromethane
Concen: 8.636 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Tgt Ion: 50 Resp: 83080

Ion	Ratio	Lower	Upper
50	100		
52	32.1	24.7	37.1

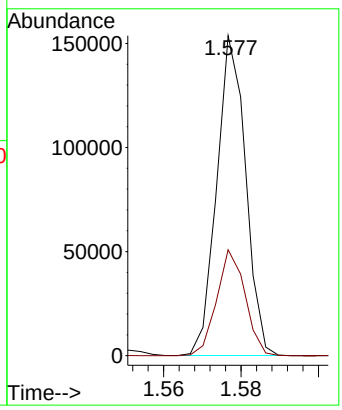




#5
Vinyl Chloride
Concen: 7.596 ppbv
RT: 1.577 min Scan# 4
Delta R.T. -0.003 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Tgt Ion: 62 Resp: 7954

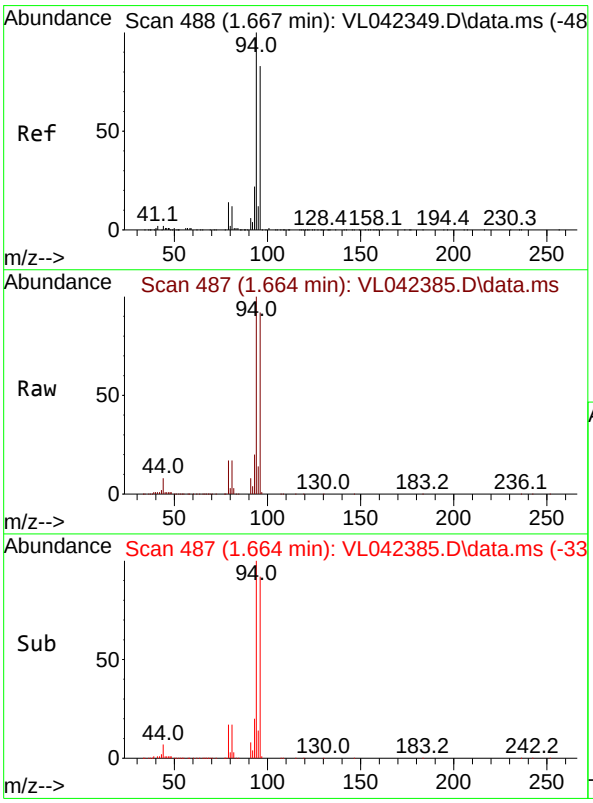
Ion	Ratio	Lower	Upper
62	100		
64	33.1	25.4	38.0



Instrument :
MSVOA_L
ClientSampleId :
VL0418ABS01

Manual Integrations
APPROVED

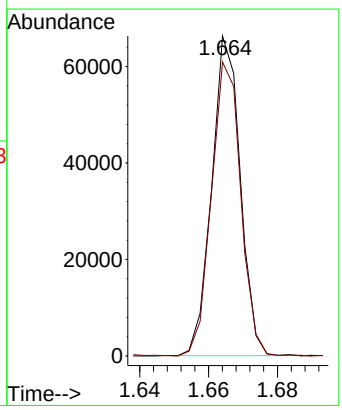
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025

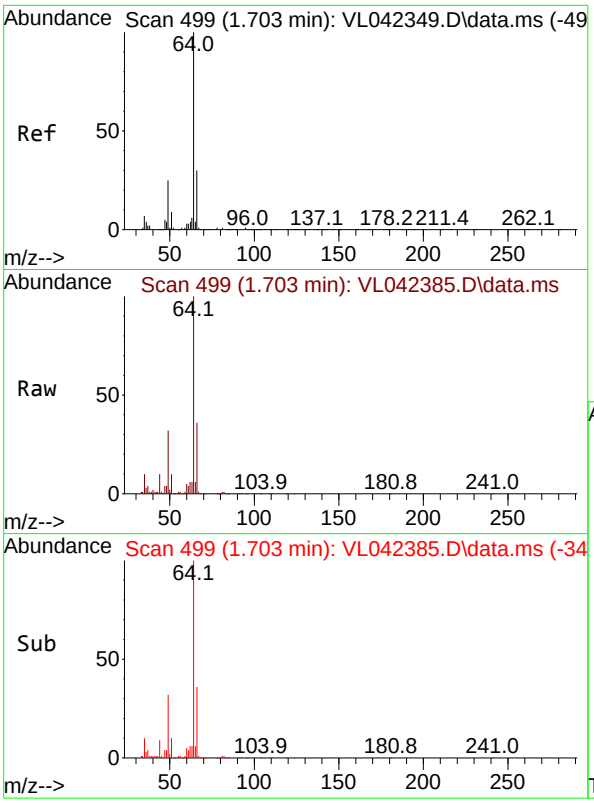


#6
Bromomethane
Concen: 8.454 ppbv
RT: 1.664 min Scan# 487
Delta R.T. -0.003 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Tgt Ion: 94 Resp: 38033

Ion	Ratio	Lower	Upper
94	100		
96	91.9	66.2	99.2

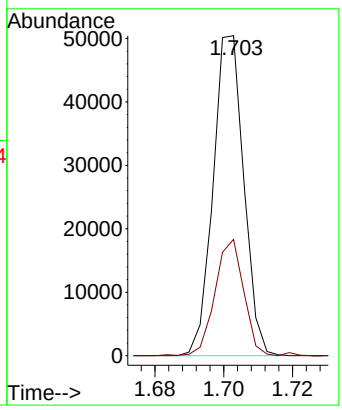




#7
Chloroethane
Concen: 8.263 ppbv
RT: 1.703 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Tgt Ion: 64 Resp: 3129

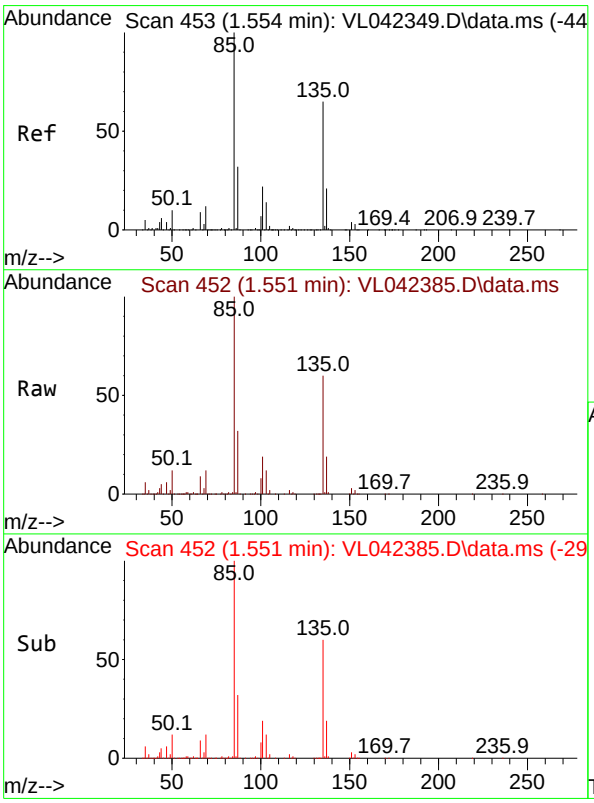
Ion	Ratio	Lower	Upper
64	100		
66	36.4	24.6	37.0



Instrument :
MSVOA_L
ClientSampleId :
VL0418ABS01

Manual Integrations
APPROVED

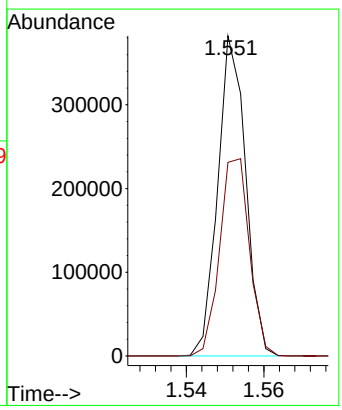
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025

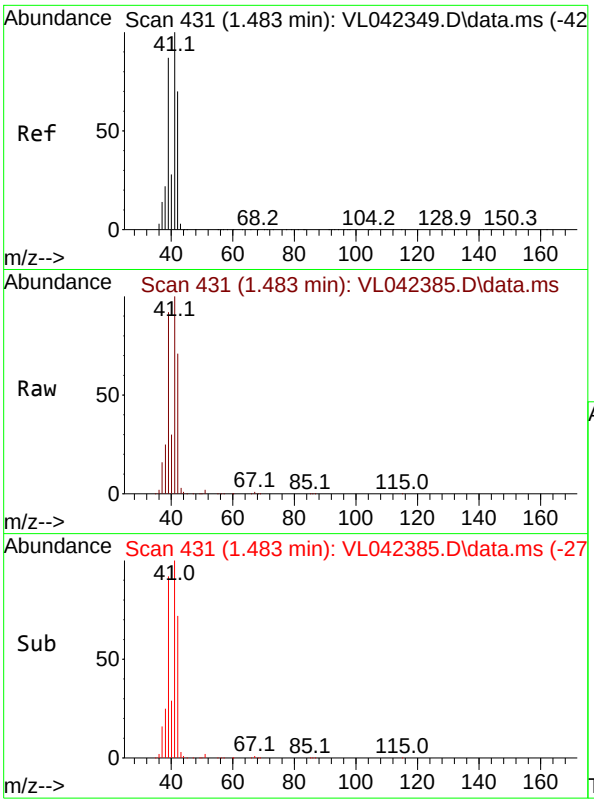


#8
Dichlorotetrafluoroethane
Concen: 9.137 ppbv
RT: 1.551 min Scan# 452
Delta R.T. -0.003 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Tgt Ion: 85 Resp: 190713

Ion	Ratio	Lower	Upper
85	100		
135	66.5	52.2	78.2

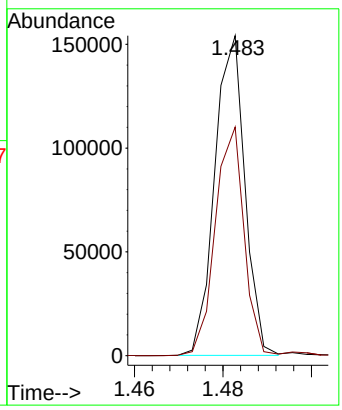




#9
Propene
Concen: 6.920 ppbv
RT: 1.483 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Tgt Ion: 41 Resp: 7295

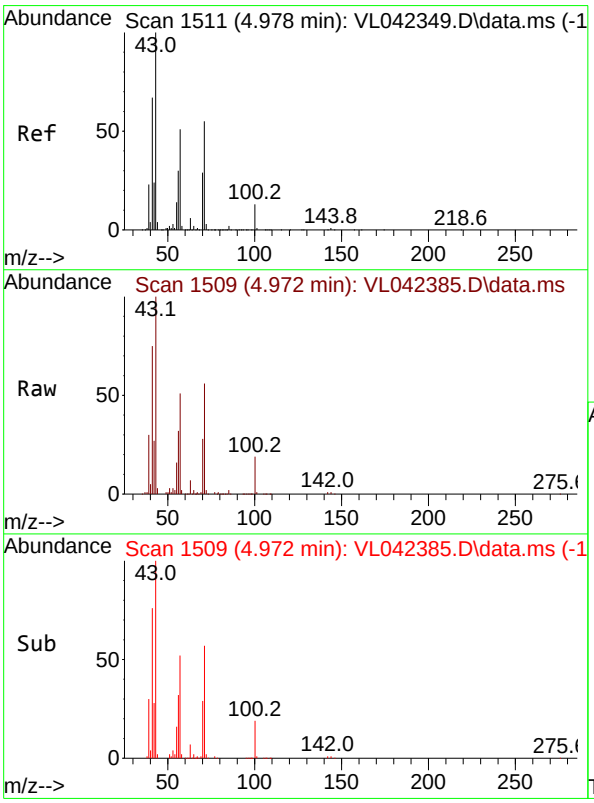
Ion	Ratio	Lower	Upper
41	100		
42	69.5	56.2	84.4



Instrument :
MSVOA_L
ClientSampleId :
VL0418ABS01

Manual Integrations
APPROVED

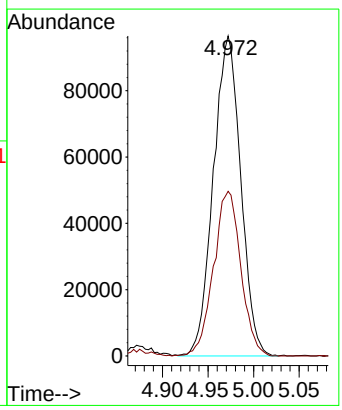
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025

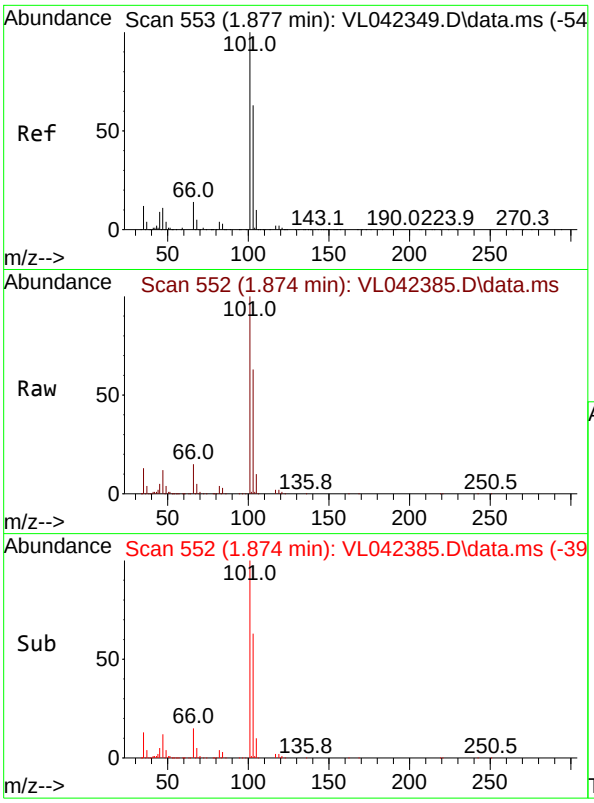


#10
Heptane
Concen: 6.820 ppbv
RT: 4.972 min Scan# 1509
Delta R.T. -0.006 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Tgt Ion: 43 Resp: 201993

Ion	Ratio	Lower	Upper
43	100		
57	51.3	39.9	59.9

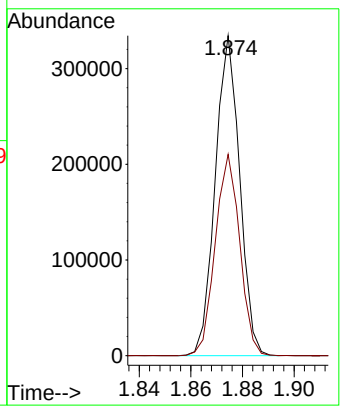




#11
Trichlorofluoromethane
Concen: 9.494 ppbv
RT: 1.874 min Scan# 5
Delta R.T. -0.003 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Tgt Ion:101 Resp: 21947

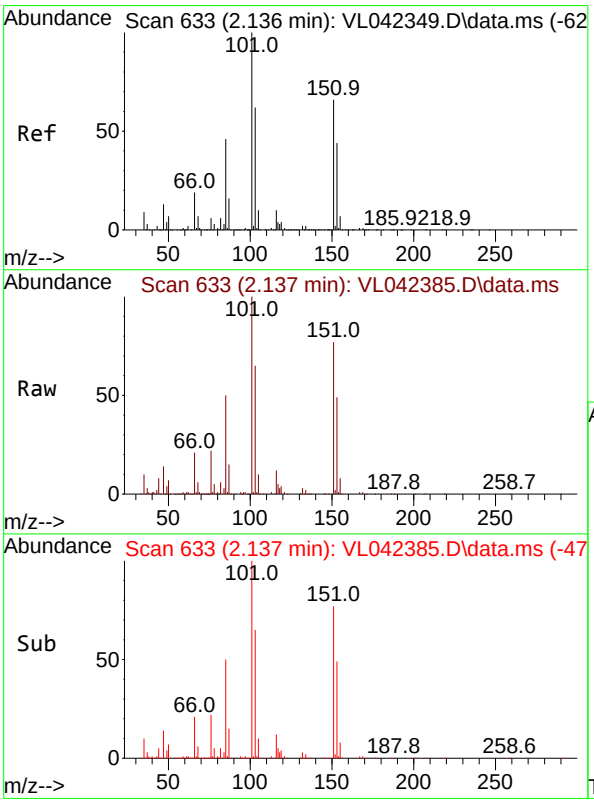
Ion	Ratio	Lower	Upper
101	100		
103	62.9	50.1	75.1



Instrument :
MSVOA_L
ClientSampleId :
VL0418ABS01

Manual Integrations
APPROVED

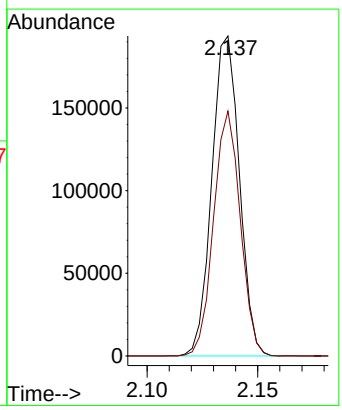
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025

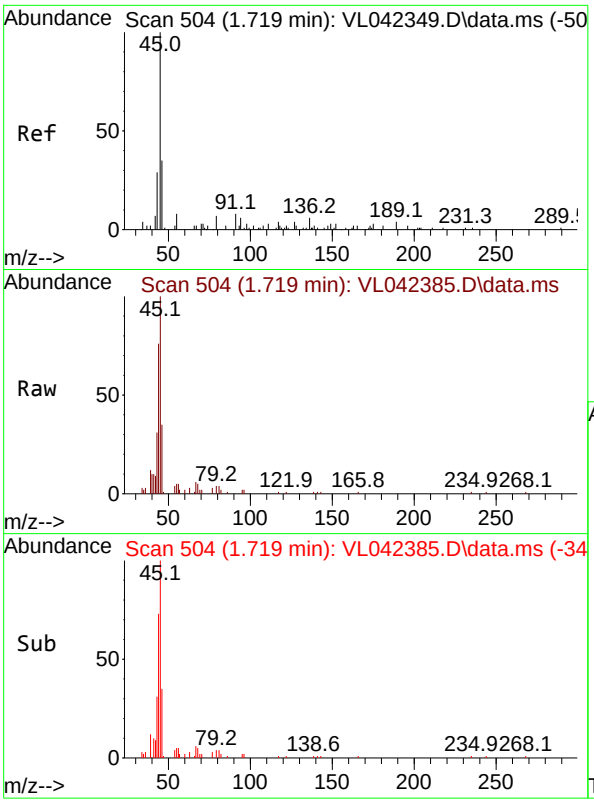


#12
1,1,2-Trichlorotrifluoroethane
Concen: 8.881 ppbv
RT: 2.137 min Scan# 633
Delta R.T. 0.000 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Tgt Ion:101 Resp: 167879

Ion	Ratio	Lower	Upper
101	100		
151	74.0	57.0	85.6

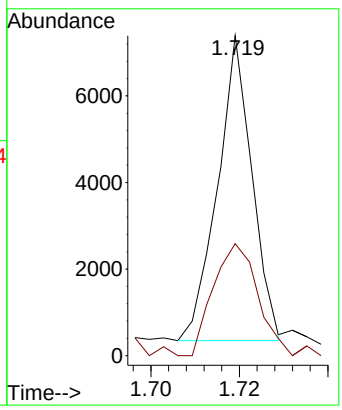




#13
Ethanol
Concen: 2.268 ppbv
RT: 1.719 min Scan# 5(
Delta R.T. 0.000 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Tgt Ion: 45 Resp: 380(

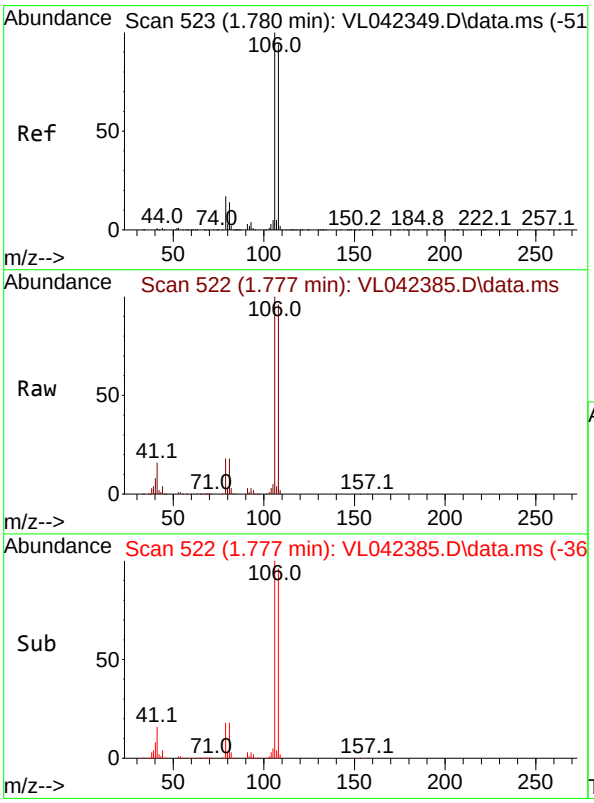
Ion	Ratio	Lower	Upper
45	100		
46	51.6	21.9	87.7



Instrument :
MSVOA_L
ClientSampleId :
VL0418ABS01

Manual Integrations
APPROVED

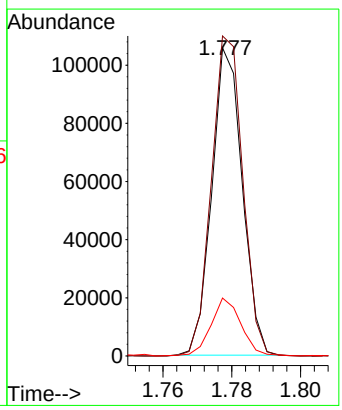
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025

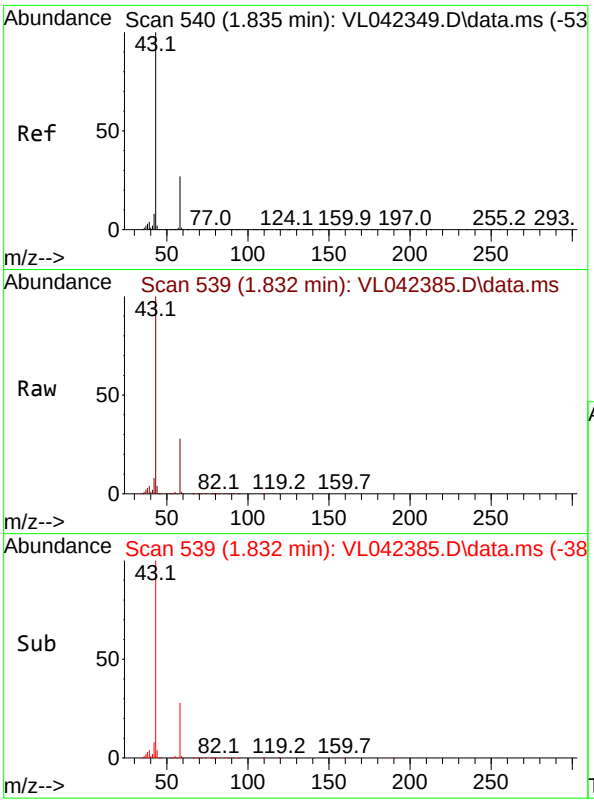


#14
Bromoethene
Concen: 9.126 ppbv
RT: 1.777 min Scan# 522
Delta R.T. -0.003 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Tgt Ion:108 Resp: 65024

Ion	Ratio	Lower	Upper
108	100		
106	107.2	85.9	128.9
79	19.1	13.9	20.9

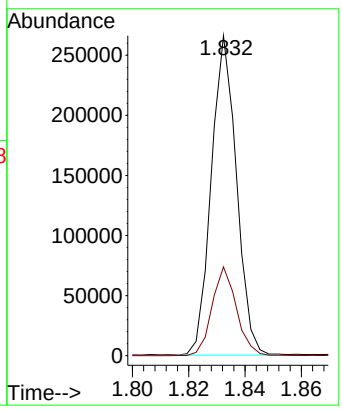




#15
Acetone
Concen: 7.322 ppbv
RT: 1.832 min Scan# 5
Delta R.T. -0.003 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Tgt Ion: 43 Resp: 16493

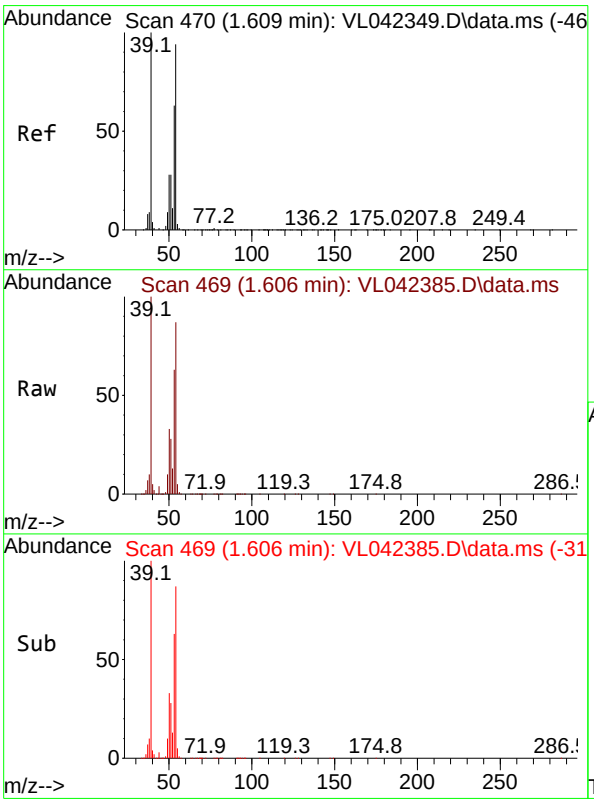
Ion	Ratio	Lower	Upper
43	100		
58	27.0	22.4	33.6



Instrument :
MSVOA_L
ClientSampleId :
VL0418ABS01

Manual Integrations
APPROVED

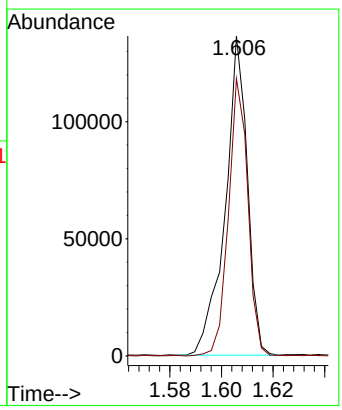
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025

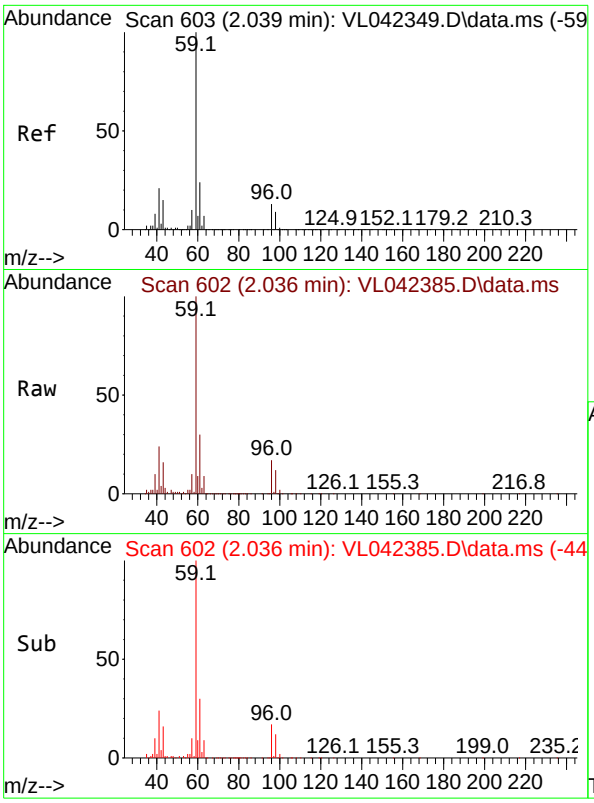


#16
1,3-Butadiene
Concen: 7.551 ppbv
RT: 1.606 min Scan# 469
Delta R.T. -0.003 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Tgt Ion: 39 Resp: 81350

Ion	Ratio	Lower	Upper
39	100		
54	75.9	64.9	97.3

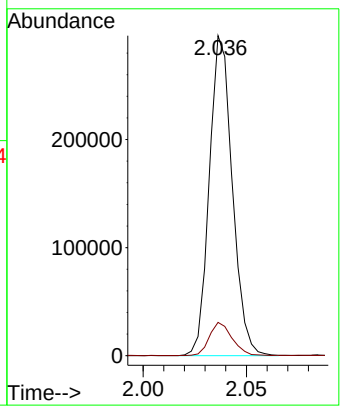




#17
tert-Butyl alcohol
Concen: 8.201 ppbv
RT: 2.036 min Scan# 6
Delta R.T. -0.003 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Tgt Ion: 59 Resp: 22892

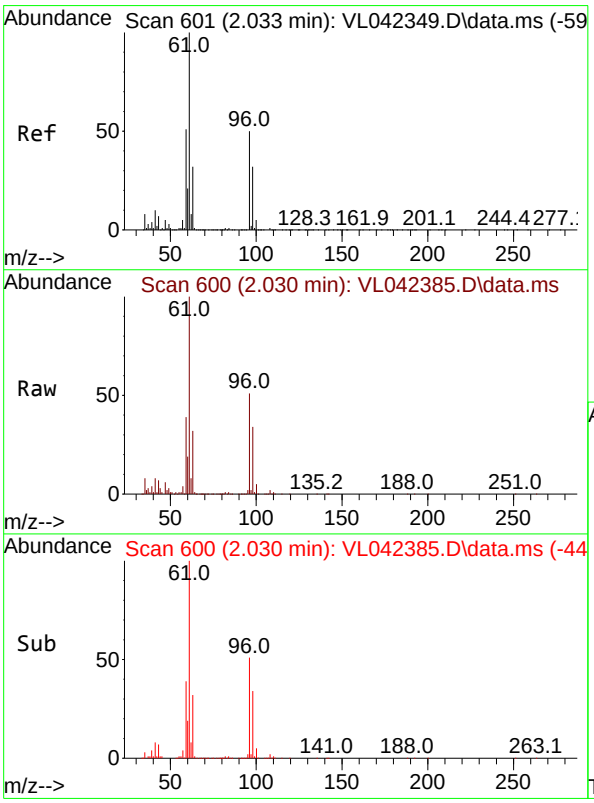
Ion	Ratio	Lower	Upper
59	100		
57	10.7	8.7	13.1



Instrument :
MSVOA_L
ClientSampleId :
VL0418ABS01

Manual Integrations
APPROVED

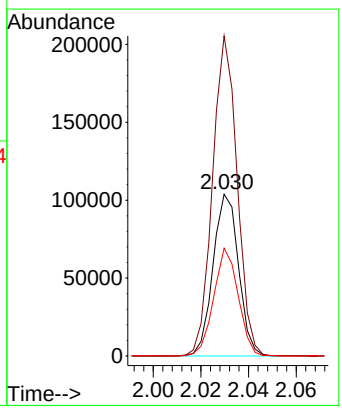
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025

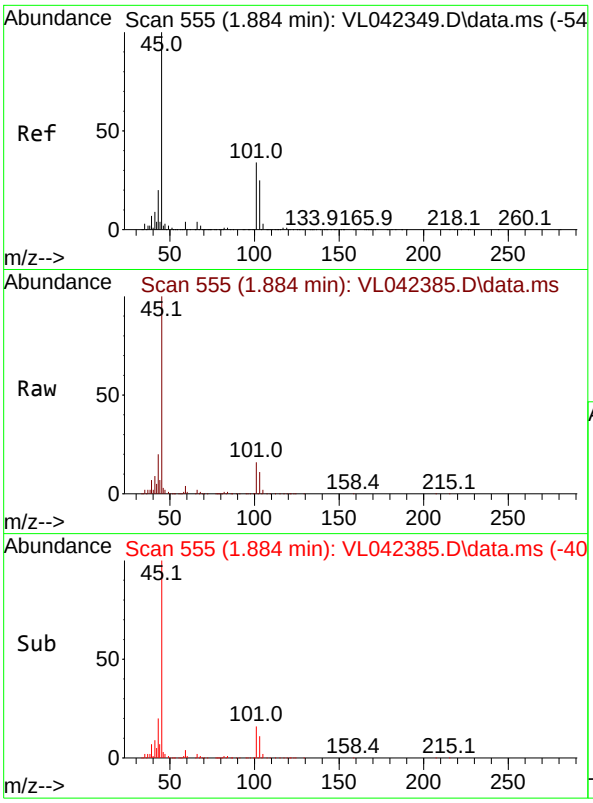


#18
1,1-Dichloroethene
Concen: 8.710 ppbv
RT: 2.030 min Scan# 600
Delta R.T. -0.003 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Tgt Ion: 96 Resp: 76914

Ion	Ratio	Lower	Upper
96	100		
61	197.8	160.2	240.2
98	66.6	51.0	76.4

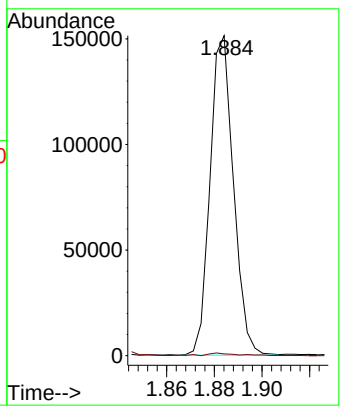




#19
Isopropyl Alcohol
Concen: 8.242 ppbv
RT: 1.884 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Tgt Ion: 45 Resp: 10313

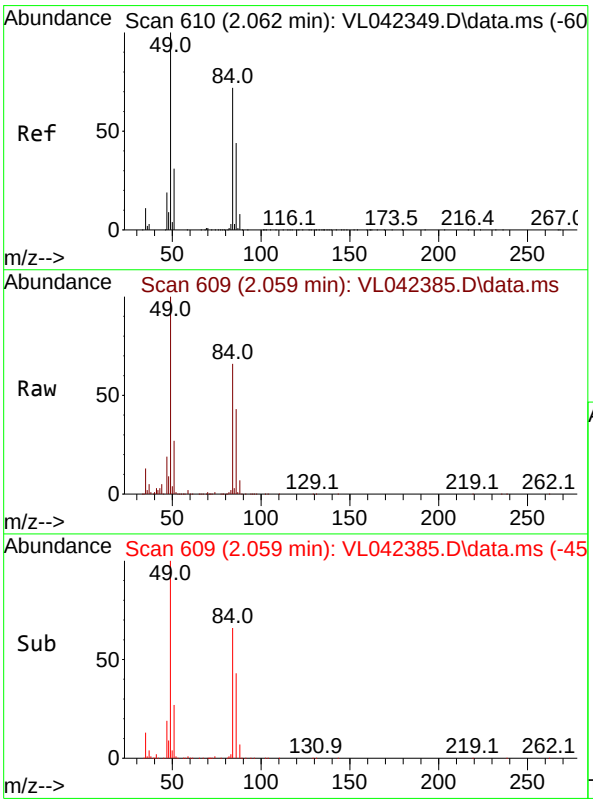
Ion	Ratio	Lower	Upper
45	100		
58	43.5	34.5	51.7



Instrument :
MSVOA_L
ClientSampleId :
VL0418ABS01

Manual Integrations
APPROVED

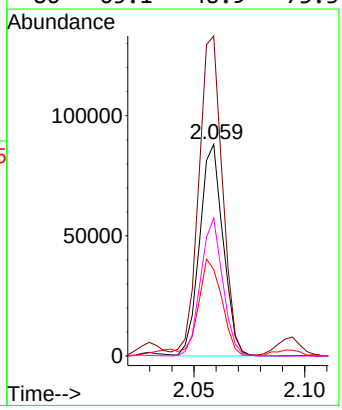
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025

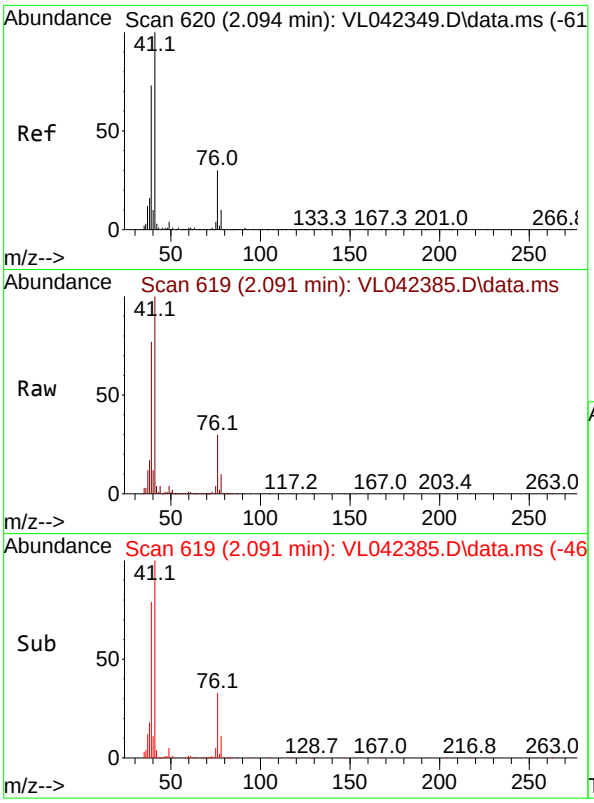


#20
Methylene Chloride
Concen: 7.360 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.003 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Tgt Ion: 84 Resp: 64925

Ion	Ratio	Lower	Upper
84	100		
49	148.0	111.6	167.4
51	39.0	35.1	52.7
86	65.1	48.9	73.3





#21
Allyl Chloride
Concen: 7.955 ppbv
RT: 2.091 min Scan# 6
Delta R.T. -0.003 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

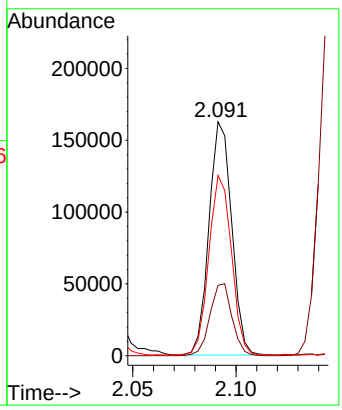
Tgt Ion: 41 Resp: 12372

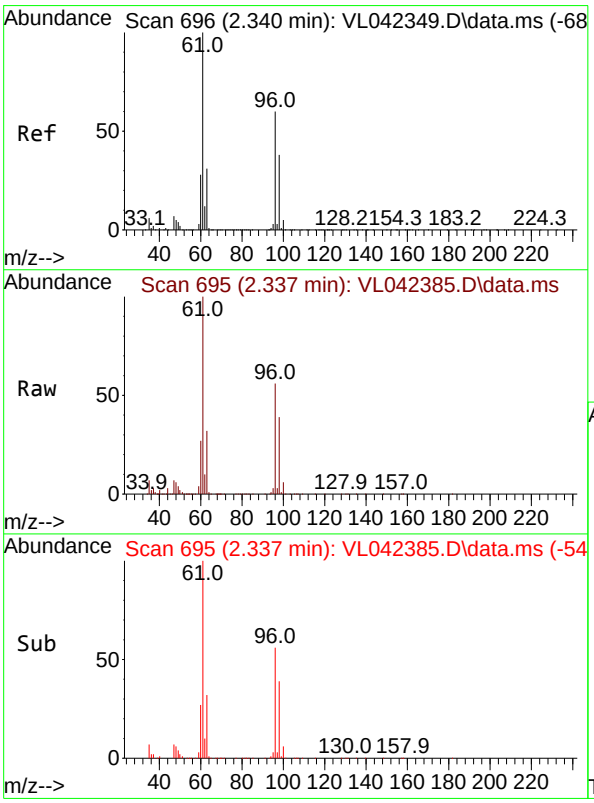
Ion	Ratio	Lower	Upper
41	100		
76	30.0	24.8	37.2
39	76.9	60.6	90.8

Instrument :
MSVOA_L
ClientSampleId :
VL0418ABS01

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025

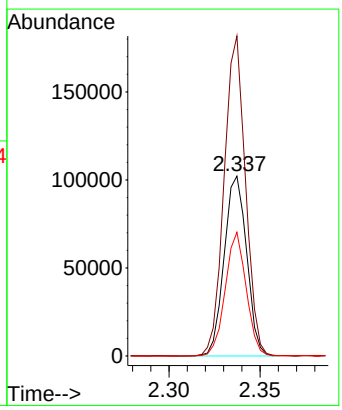


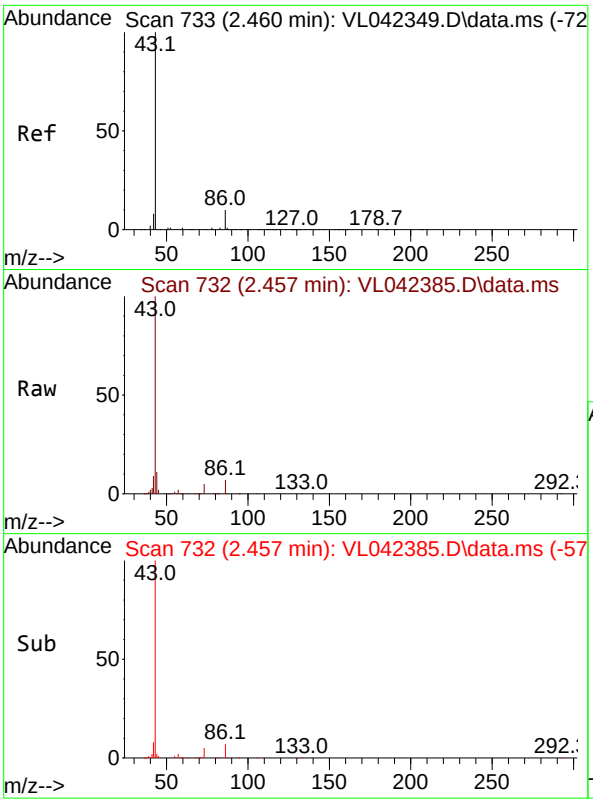


#22
trans-1,2-Dichloroethene
Concen: 8.723 ppbv
RT: 2.337 min Scan# 695
Delta R.T. -0.003 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Tgt Ion: 96 Resp: 87708

Ion	Ratio	Lower	Upper
96	100		
61	177.9	133.7	200.5
98	68.8	50.3	75.5

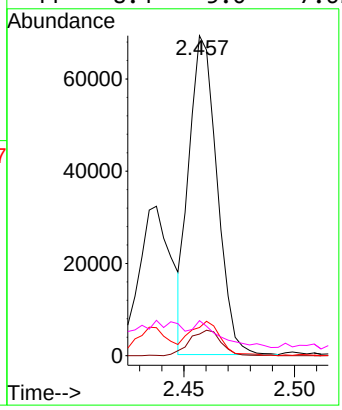




#23
Vinyl Acetate
Concen: 6.663 ppbv
RT: 2.457 min Scan# 7
Delta R.T. -0.003 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Tgt Ion: 43 Resp: 6075

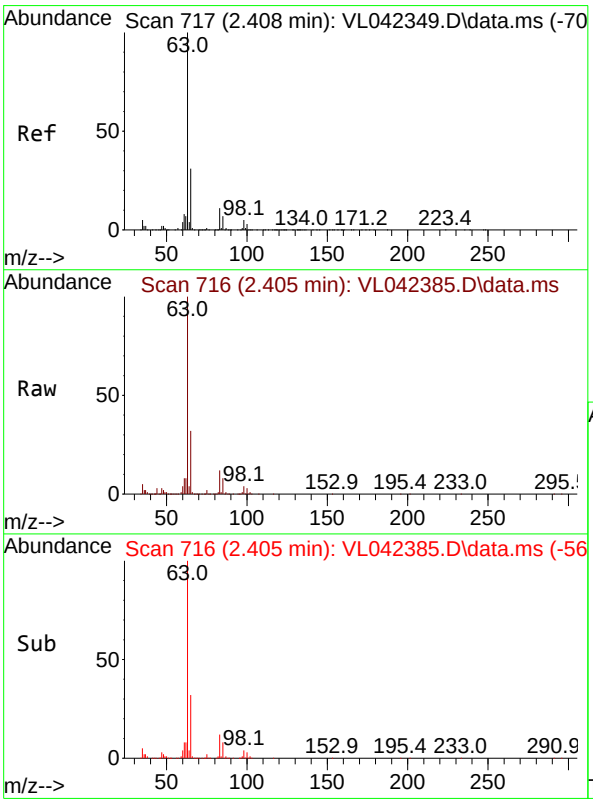
Ion	Ratio	Lower	Upper
43	100		
86	6.8	6.5	9.7
42	8.8	7.8	11.8
44	8.4	5.0	7.6#



Instrument :
MSVOA_L
ClientSampleId :
VL0418ABS01

Manual Integrations
APPROVED

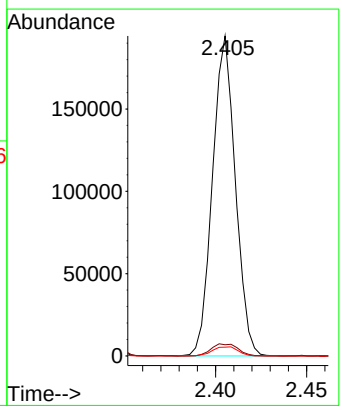
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025

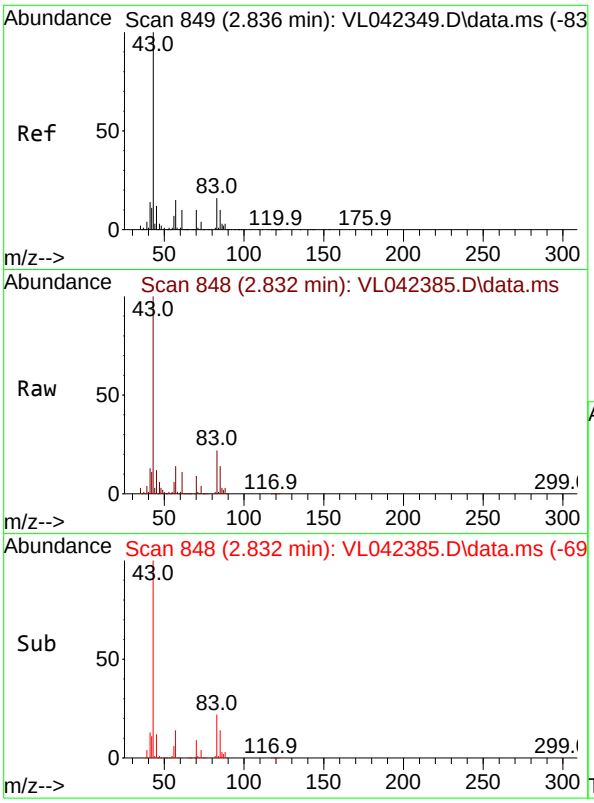


#24
1,1-Dichloroethane
Concen: 8.882 ppbv
RT: 2.405 min Scan# 716
Delta R.T. -0.003 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Tgt Ion: 63 Resp: 169635

Ion	Ratio	Lower	Upper
63	100		
98	3.5	2.3	6.8
100	2.8	1.6	4.8

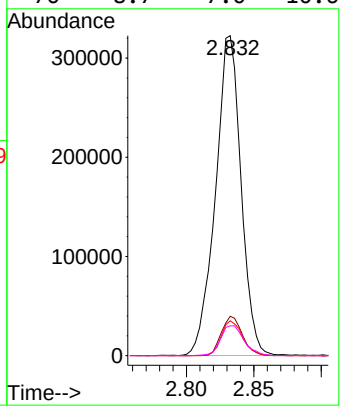




#25
Ethyl Acetate
Concen: 7.672 ppbv
RT: 2.832 min Scan# 8
Delta R.T. -0.003 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Tgt Ion: 43 Resp: 42607

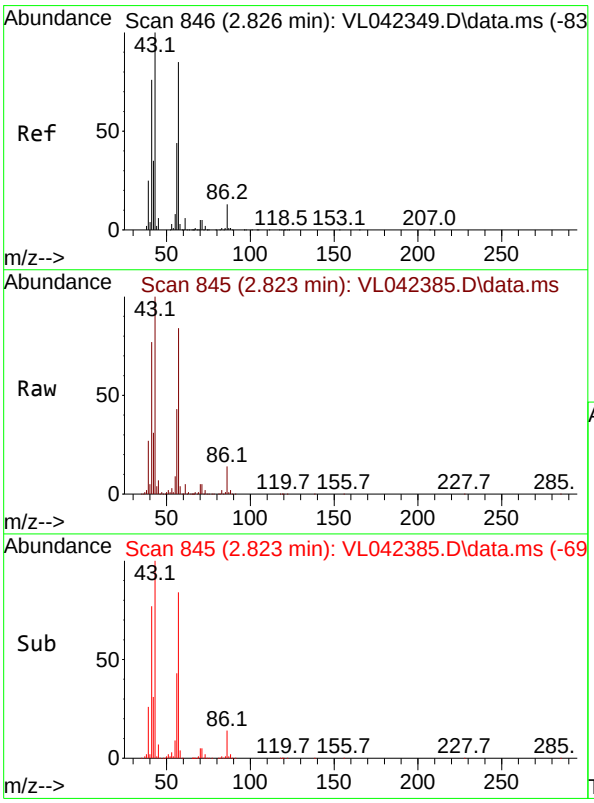
Ion	Ratio	Lower	Upper
43	100		
45	10.2	8.3	12.5
61	9.1	7.3	10.9
70	8.7	7.0	10.6



Instrument :
MSVOA_L
ClientSampleId :
VL0418ABS01

Manual Integrations
APPROVED

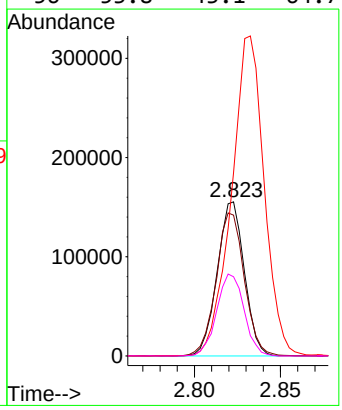
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025

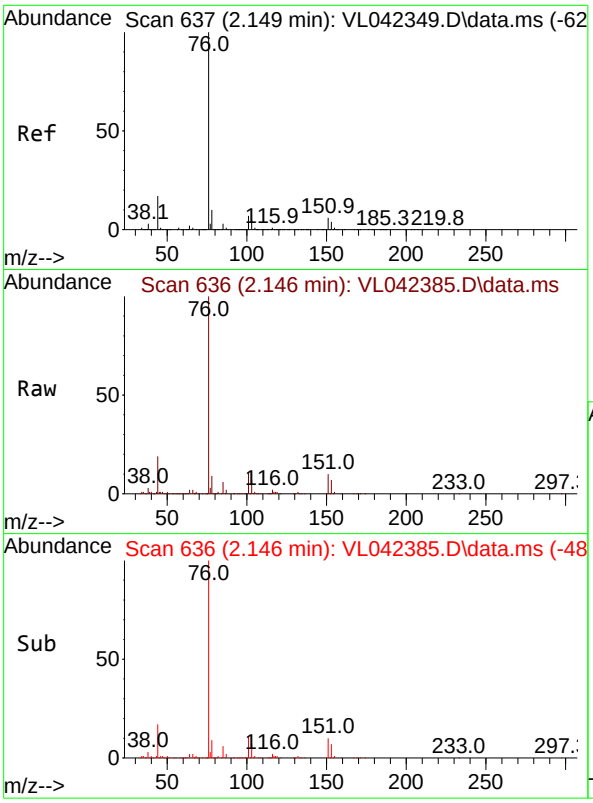


#26
Hexane
Concen: 7.570 ppbv
RT: 2.823 min Scan# 845
Delta R.T. -0.003 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Tgt Ion: 57 Resp: 170131

Ion	Ratio	Lower	Upper
57	100		
41	97.1	77.9	116.9
43	251.0	208.4	312.6
56	53.8	43.1	64.7

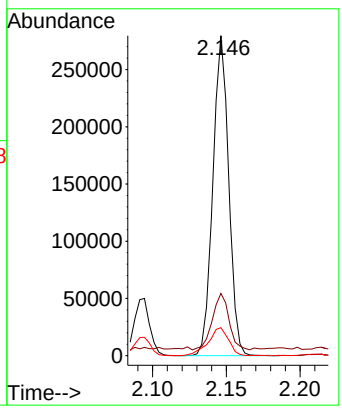




#27
Carbon Disulfide
Concen: 8.676 ppbv
RT: 2.146 min Scan# 6
Delta R.T. -0.003 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Tgt Ion: 76 Resp: 20876

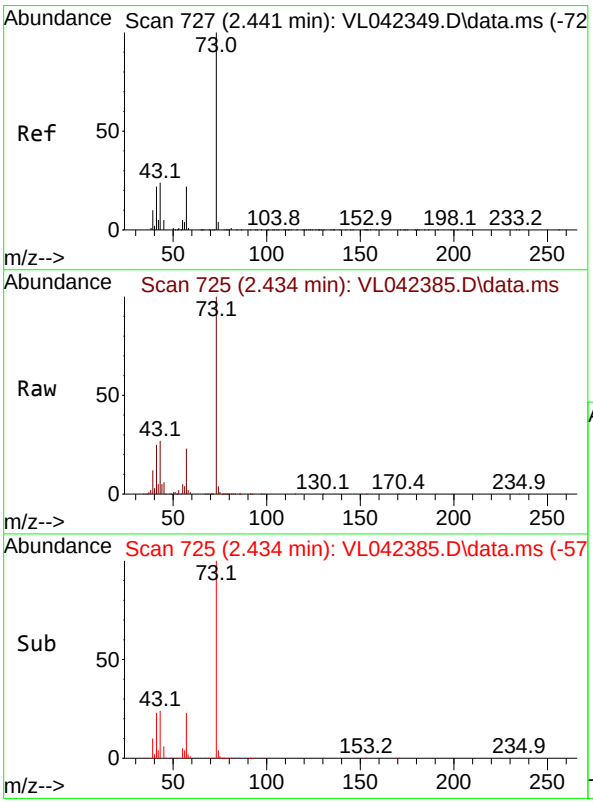
Ion	Ratio	Lower	Upper
76	100		
44	17.8	15.5	23.3
78	11.3	9.3	13.9



Instrument :
MSVOA_L
ClientSampleId :
VL0418ABS01

Manual Integrations
APPROVED

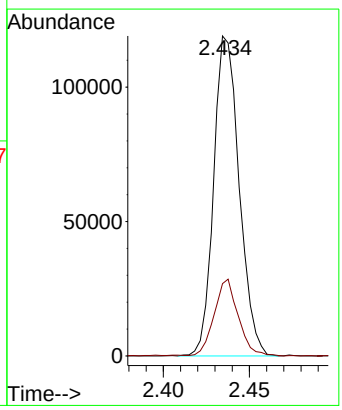
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025

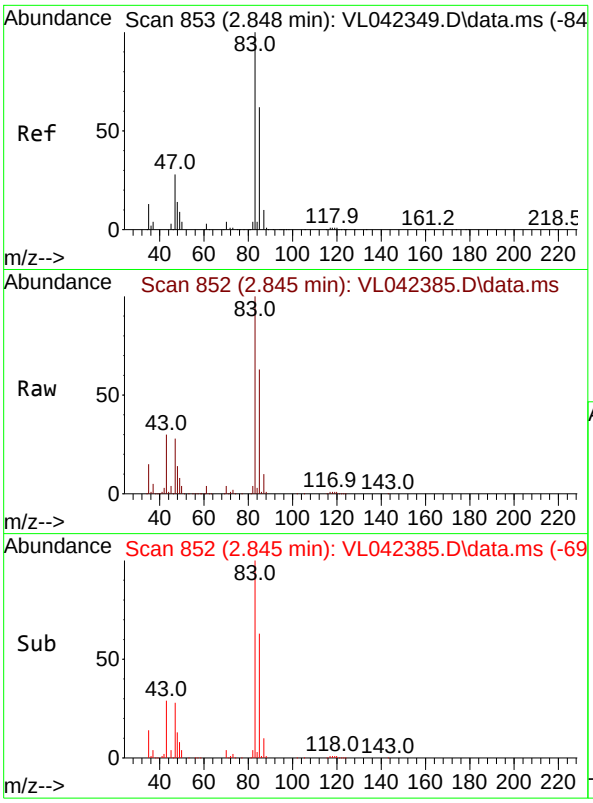


#28
Methyl tert-Butyl Ether
Concen: 8.345 ppbv
RT: 2.434 min Scan# 725
Delta R.T. -0.006 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Tgt Ion: 73 Resp: 122891

Ion	Ratio	Lower	Upper
73	100		
57	22.9	21.3	31.9





#29
Chloroform
Concen: 9.131 ppbv
RT: 2.845 min Scan# 8
Delta R.T. -0.003 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

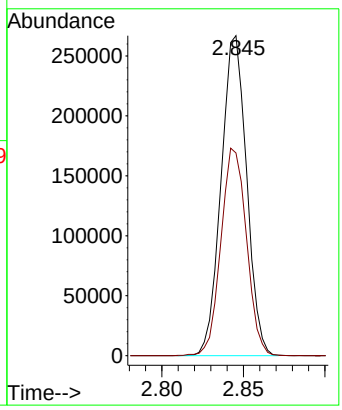
Tgt Ion: 83 Resp: 29007

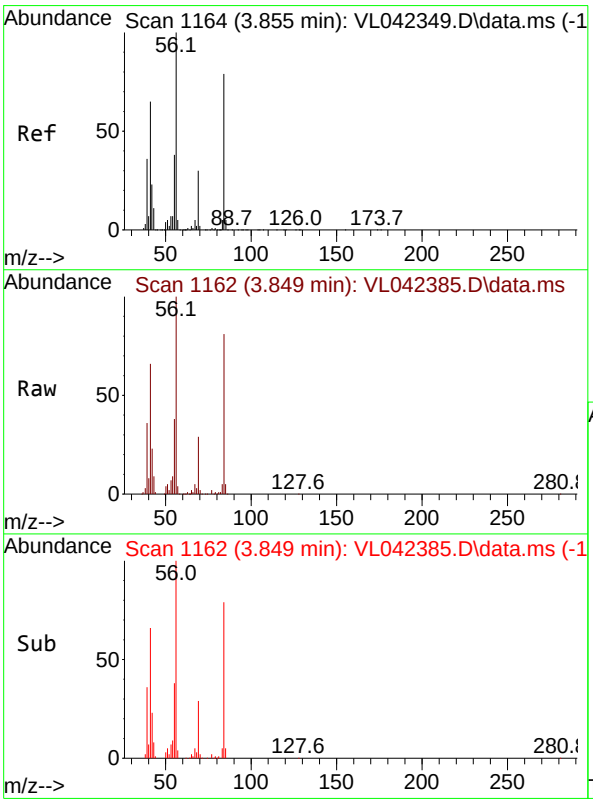
Ion	Ratio	Lower	Upper
83	100		
85	63.2	50.0	75.0

Instrument :
MSVOA_L
ClientSampleId :
VL0418ABS01

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025

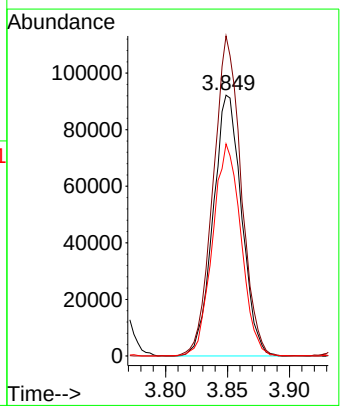


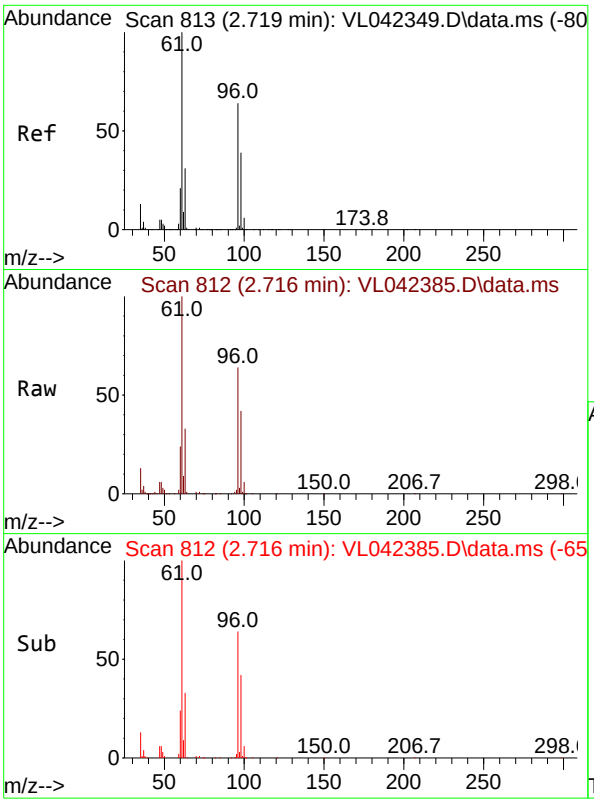


#30
Cyclohexane
Concen: 8.129 ppbv
RT: 3.849 min Scan# 1162
Delta R.T. -0.006 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Tgt Ion: 84 Resp: 147689

Ion	Ratio	Lower	Upper
84	100		
56	120.4	101.0	151.4
41	81.3	67.4	101.0

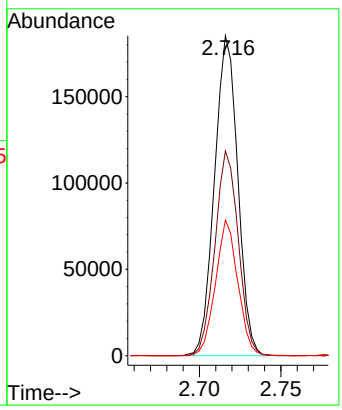




#31
cis-1,2-Dichloroethene
Concen: 8.615 ppbv
RT: 2.716 min Scan# 8
Delta R.T. -0.003 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Tgt Ion: 61 Resp: 18408

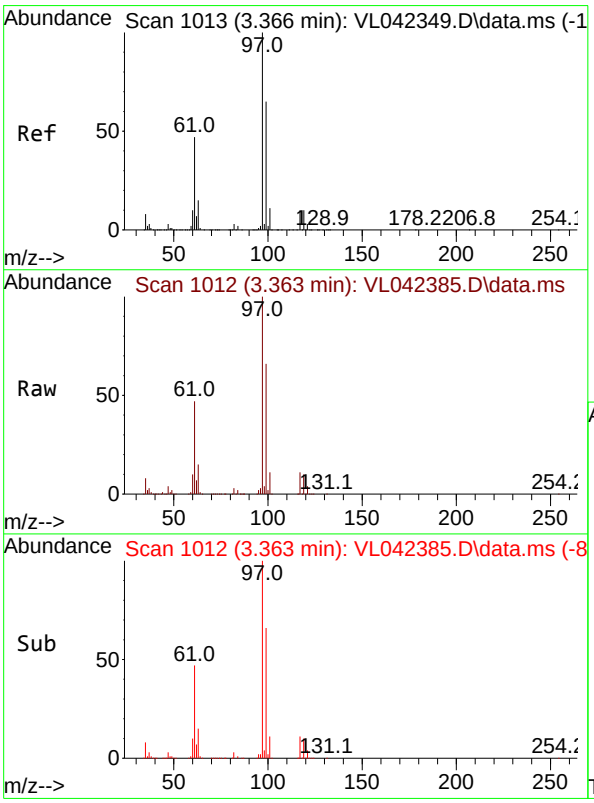
Ion	Ratio	Lower	Upper
61	100		
96	64.0	50.8	76.2
98	42.4	30.9	46.3



Instrument :
MSVOA_L
ClientSampleId :
VL0418ABS01

Manual Integrations
APPROVED

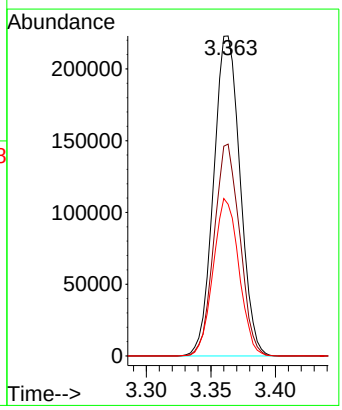
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025

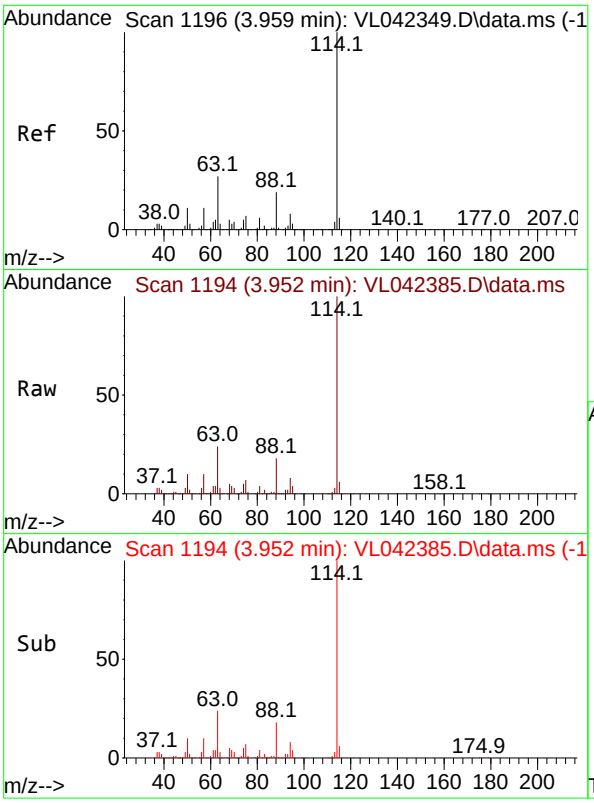


#32
1,1,1-Trichloroethane
Concen: 8.882 ppbv
RT: 3.363 min Scan# 1012
Delta R.T. -0.003 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Tgt Ion: 97 Resp: 317651

Ion	Ratio	Lower	Upper
97	100		
99	64.2	51.0	76.4
61	48.0	38.8	58.2

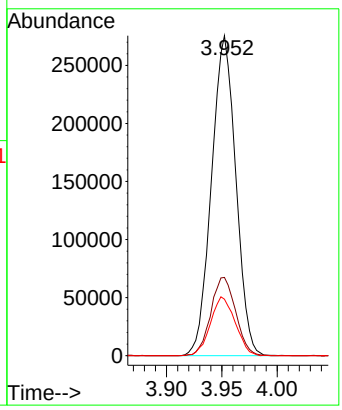




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.952 min Scan# 1
Delta R.T. -0.006 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Tgt Ion:114 Resp: 42183

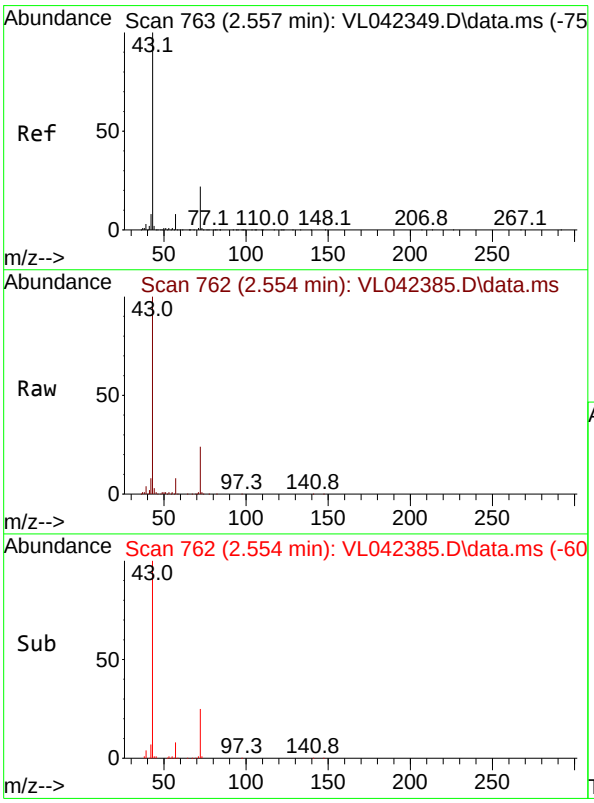
Ion	Ratio	Lower	Upper
114	100		
63	25.0	21.8	32.6
88	18.7	15.5	23.3



Instrument :
MSVOA_L
ClientSampleId :
VL0418ABS01

Manual Integrations
APPROVED

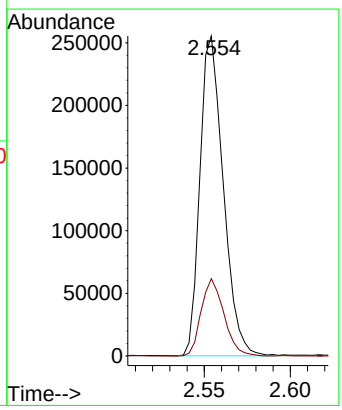
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025

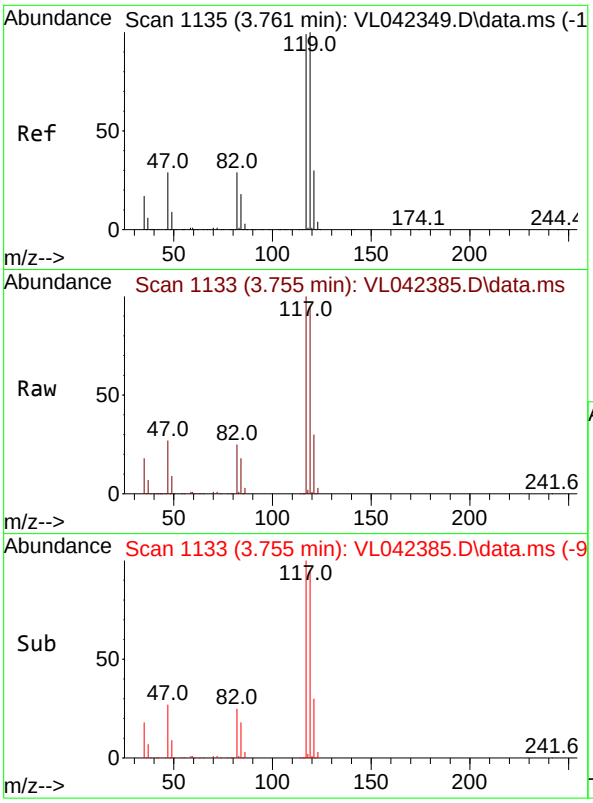


#34
2-Butanone
Concen: 7.208 ppbv
RT: 2.554 min Scan# 762
Delta R.T. -0.003 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Tgt Ion: 43 Resp: 240467

Ion	Ratio	Lower	Upper
43	100		
72	23.6	18.2	27.2

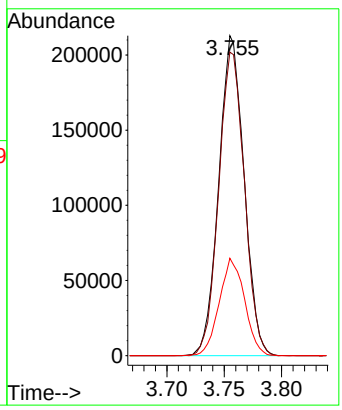




#35
Carbon Tetrachloride
Concen: 8.556 ppbv
RT: 3.755 min Scan# 1
Delta R.T. -0.006 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Tgt Ion:117 Resp: 32665

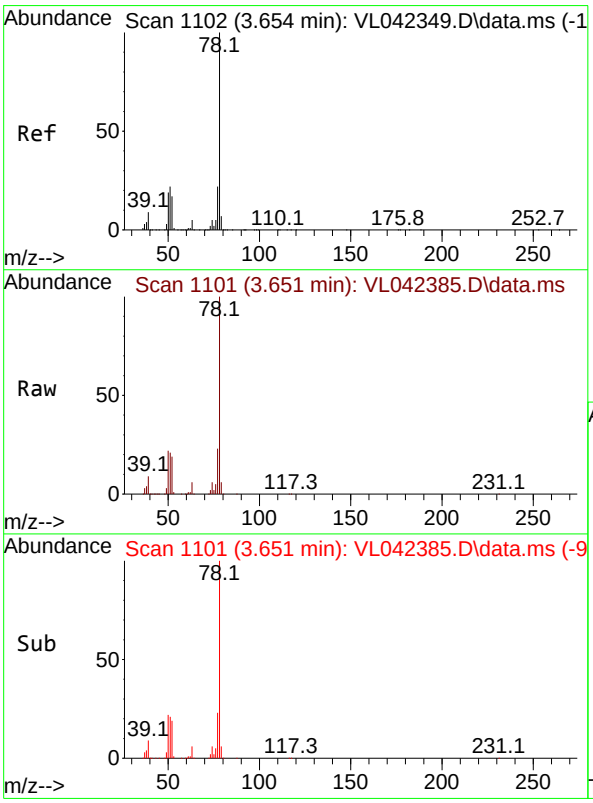
Ion	Ratio	Lower	Upper
117	100		
119	94.8	80.5	120.7
121	30.4	24.2	36.2



Instrument :
MSVOA_L
ClientSampleId :
VL0418ABS01

Manual Integrations
APPROVED

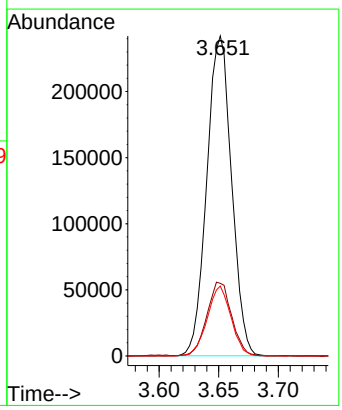
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025

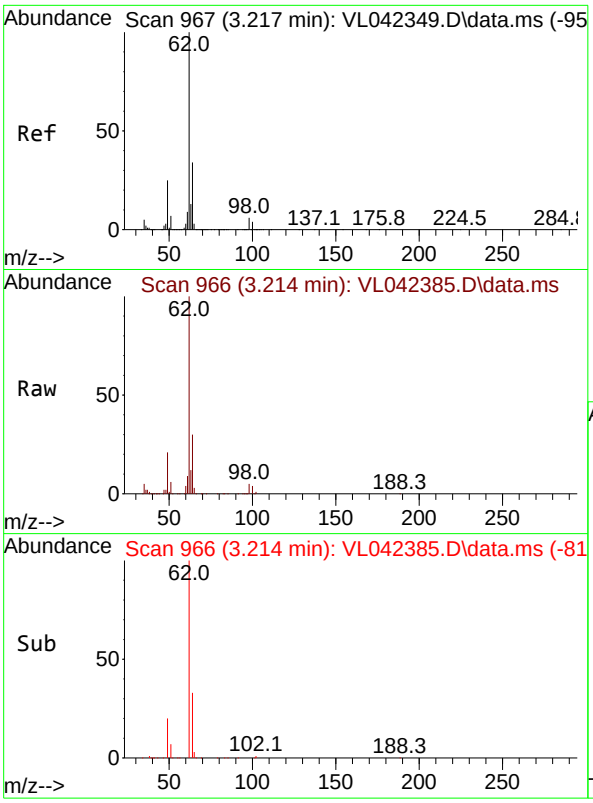


#36
Benzene
Concen: 7.683 ppbv
RT: 3.651 min Scan# 1101
Delta R.T. -0.003 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Tgt Ion: 78 Resp: 349571

Ion	Ratio	Lower	Upper
78	100		
77	22.7	17.4	26.0
50	21.8	15.5	23.3

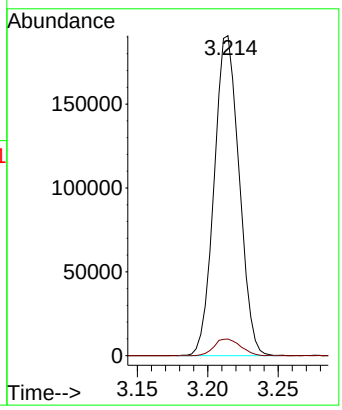




#37
1,2-Dichloroethane
Concen: 8.650 ppbv
RT: 3.214 min Scan# 9
Delta R.T. -0.003 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Tgt Ion: 62 Resp: 23622

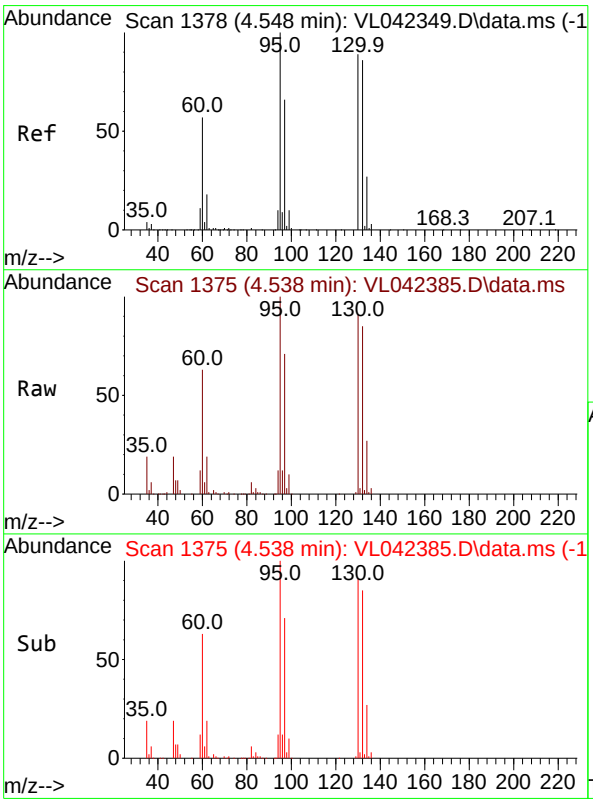
Ion	Ratio	Lower	Upper
62	100		
98	5.5	5.1	7.7



Instrument :
MSVOA_L
ClientSampleId :
VL0418ABS01

Manual Integrations
APPROVED

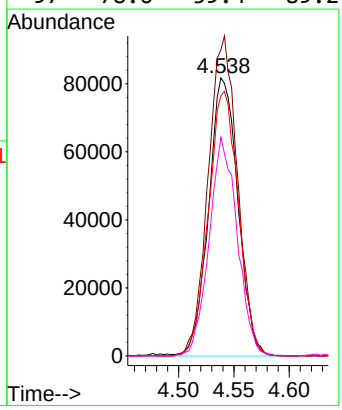
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025

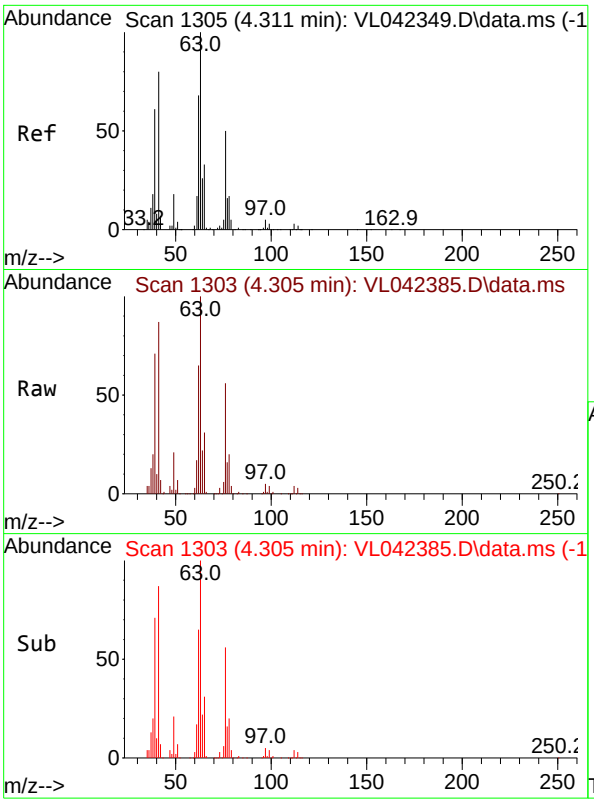


#38
Trichloroethene
Concen: 7.561 ppbv
RT: 4.538 min Scan# 1375
Delta R.T. -0.010 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Tgt Ion:130 Resp: 150355

Ion	Ratio	Lower	Upper
130	100		
95	110.0	89.8	134.6
132	93.4	77.7	116.5
97	78.6	59.4	89.2

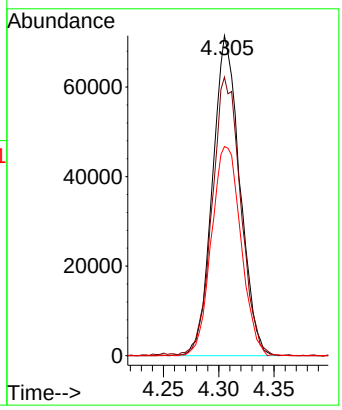




#39
1,2-Dichloropropane
Concen: 7.229 ppbv
RT: 4.305 min Scan# 1
Delta R.T. -0.006 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Tgt Ion: 63 Resp: 12257

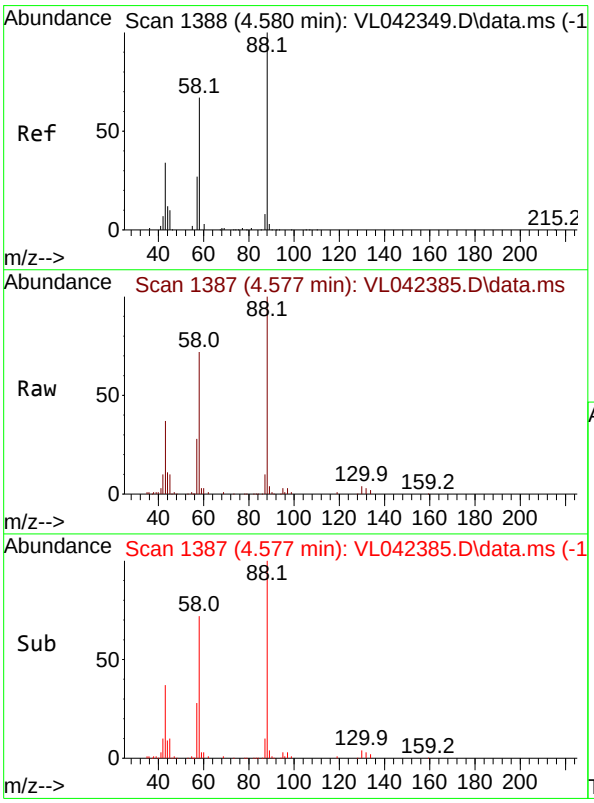
Ion	Ratio	Lower	Upper
63	100		
41	86.9	64.2	96.2
62	65.3	54.3	81.5



Instrument :
MSVOA_L
ClientSampleId :
VL0418ABS01

Manual Integrations
APPROVED

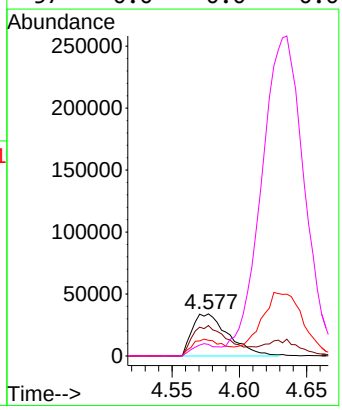
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025

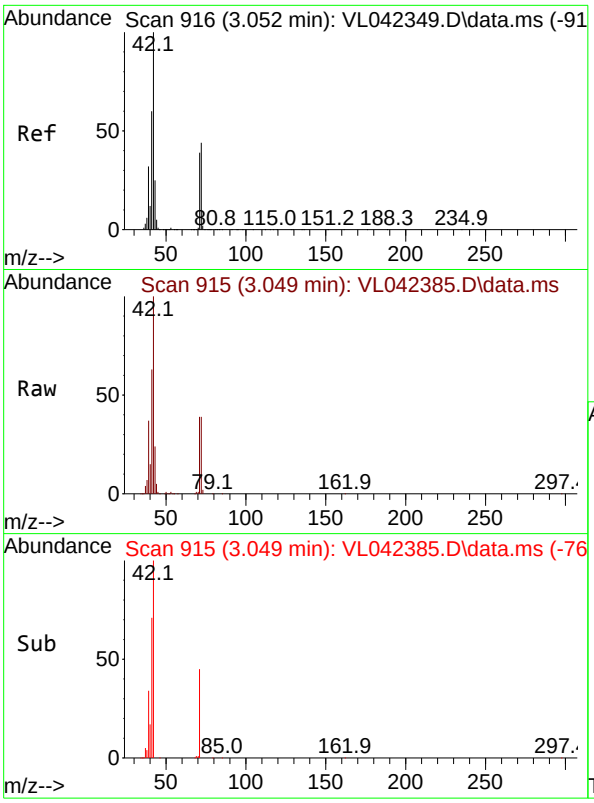


#40
1,4-Dioxane
Concen: 6.819 ppbv
RT: 4.577 min Scan# 1387
Delta R.T. -0.003 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Tgt Ion: 88 Resp: 63539

Ion	Ratio	Lower	Upper
88	100		
58	70.2	61.4	92.0
43	36.0	23.2	34.8#
57	0.0	0.0	0.0

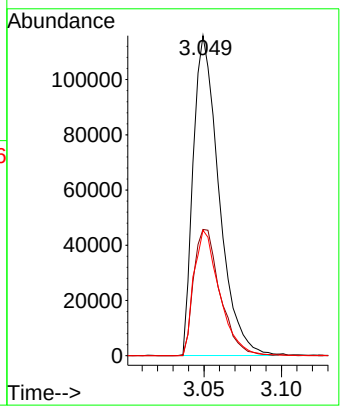




#41
Tetrahydrofuran
Concen: 6.885 ppbv
RT: 3.049 min Scan# 9
Delta R.T. -0.003 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Tgt Ion: 42 Resp: 13393

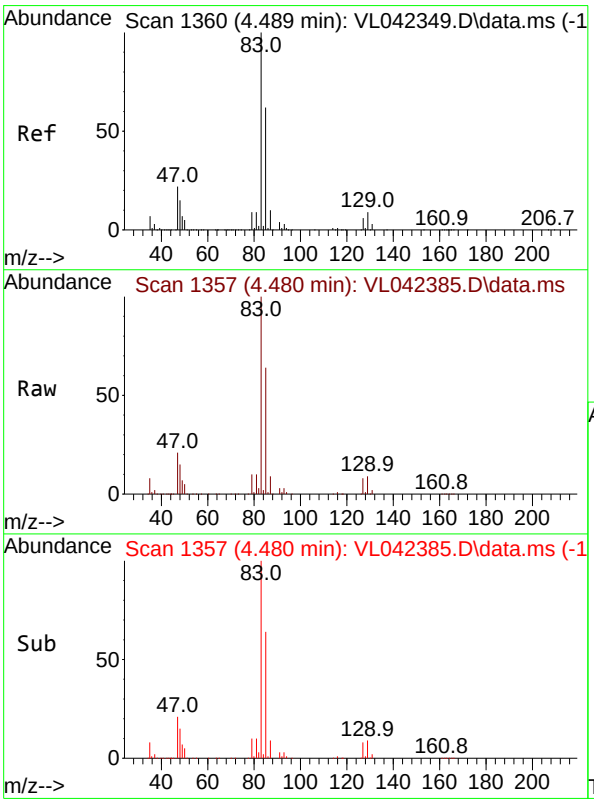
Ion	Ratio	Lower	Upper
42	100		
72	40.5	32.3	48.5
71	39.3	31.4	47.2



Instrument :
MSVOA_L
ClientSampleId :
VL0418ABS01

Manual Integrations
APPROVED

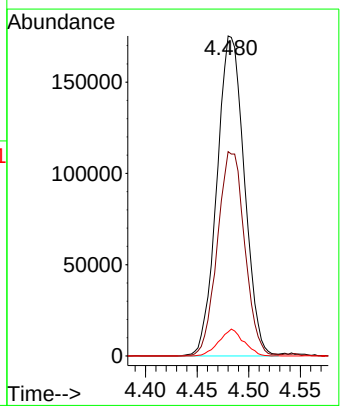
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025

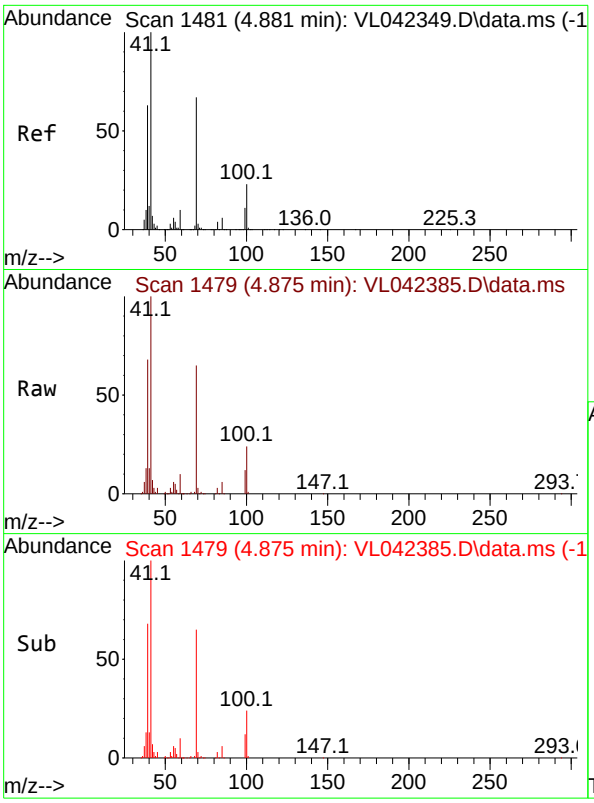


#42
Bromodichloromethane
Concen: 8.535 ppbv
RT: 4.480 min Scan# 1357
Delta R.T. -0.010 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Tgt Ion: 83 Resp: 324378

Ion	Ratio	Lower	Upper
83	100		
85	63.9	49.7	74.5
127	7.5	5.1	7.7

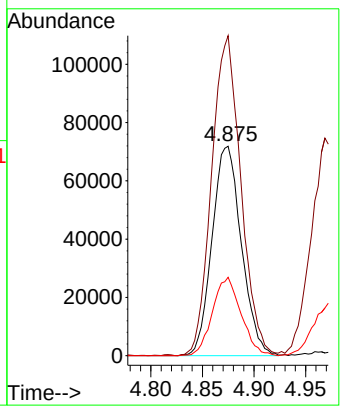




#43
Methyl Methacrylate
Concen: 6.925 ppbv
RT: 4.875 min Scan# 14
Delta R.T. -0.006 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Tgt Ion: 69 Resp: 14200

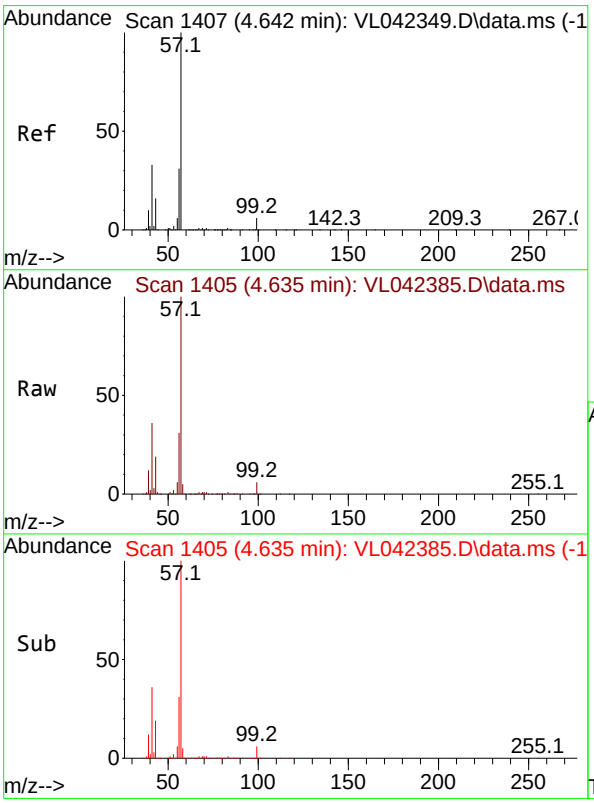
Ion	Ratio	Lower	Upper
69	100		
41	152.1	118.6	177.8
100	36.5	28.2	42.2



Instrument :
MSVOA_L
ClientSampleId :
VL0418ABS01

Manual Integrations
APPROVED

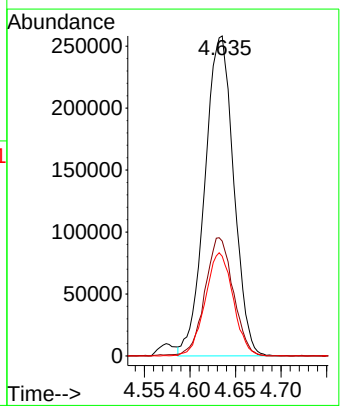
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025

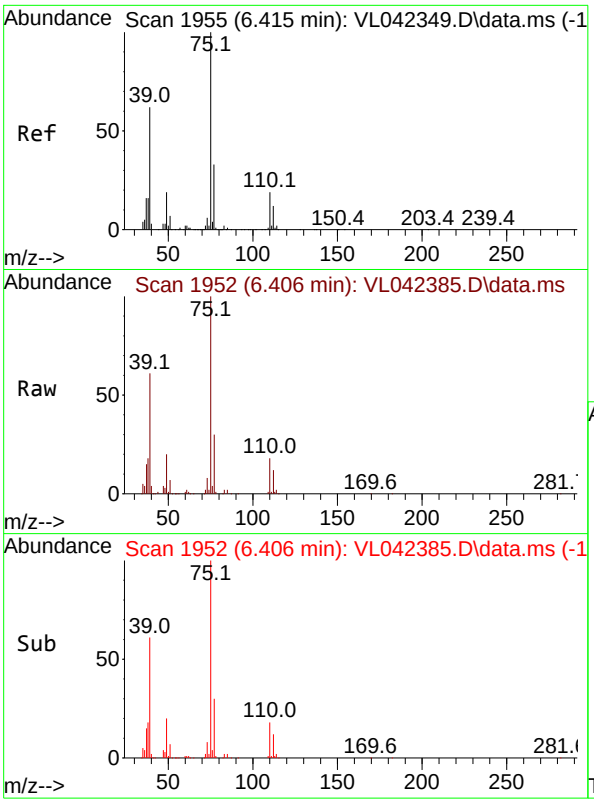


#44
2,2,4-Trimethylpentane
Concen: 7.223 ppbv
RT: 4.635 min Scan# 1405
Delta R.T. -0.006 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Tgt Ion: 57 Resp: 567587

Ion	Ratio	Lower	Upper
57	100		
41	36.5	27.2	40.8
56	31.4	25.7	38.5

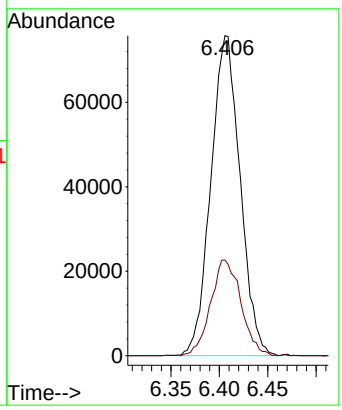




#45
t-1,3-Dichloropropene
Concen: 7.601 ppbv
RT: 6.406 min Scan# 1
Delta R.T. -0.010 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Tgt Ion: 75 Resp: 15921

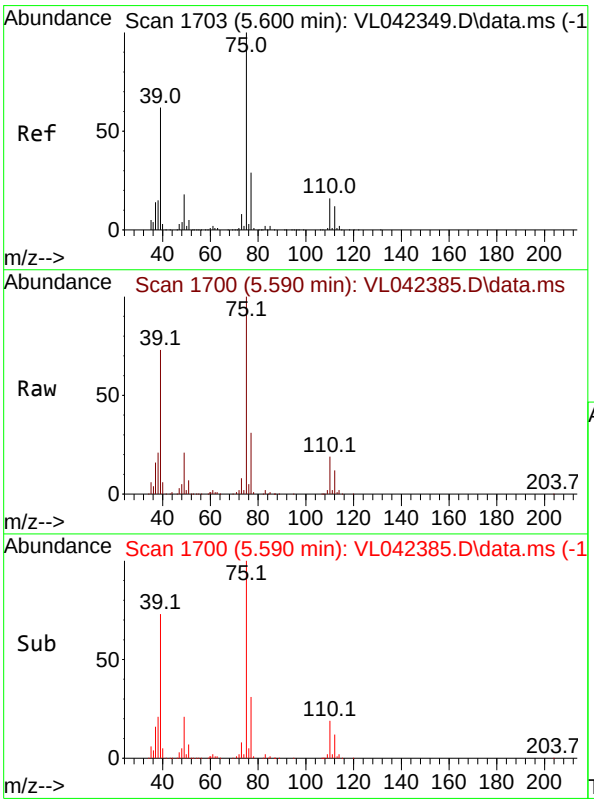
Ion	Ratio	Lower	Upper
75	100		
77	29.9	27.0	40.6



Instrument :
MSVOA_L
ClientSampleId :
VL0418ABS01

Manual Integrations
APPROVED

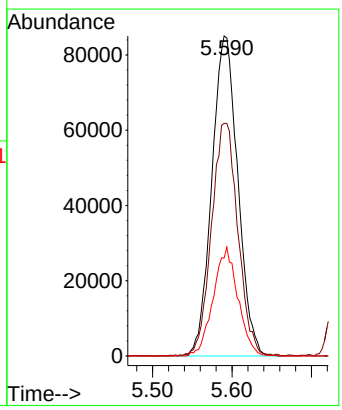
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025

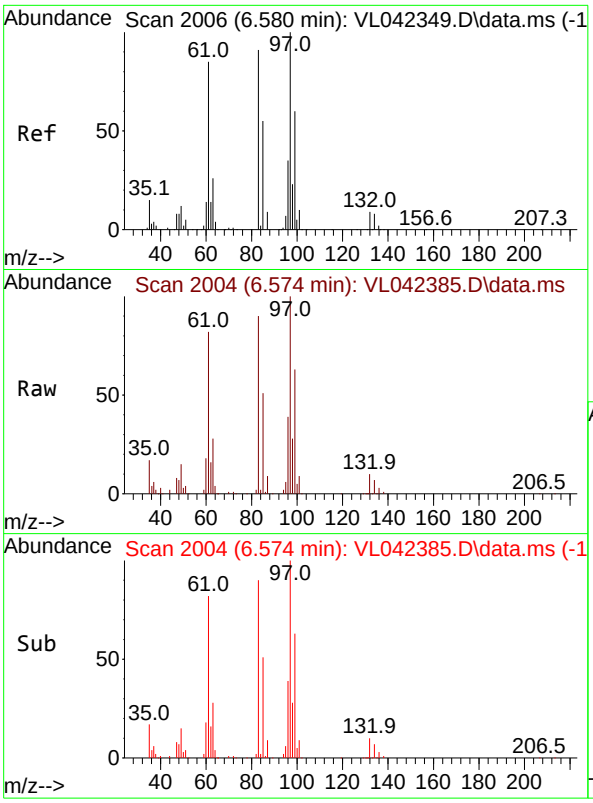


#46
cis-1,3-Dichloropropene
Concen: 7.523 ppbv
RT: 5.590 min Scan# 1700
Delta R.T. -0.010 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Tgt Ion: 75 Resp: 192875

Ion	Ratio	Lower	Upper
75	100		
39	72.6	50.0	75.0
77	30.6	23.0	34.6

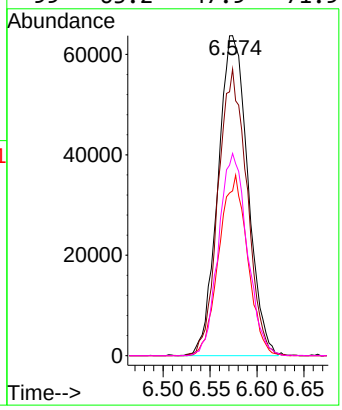




#47
1,1,2-Trichloroethane
Concen: 8.163 ppbv
RT: 6.574 min Scan# 2
Delta R.T. -0.006 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Tgt Ion: 97 Resp: 14100

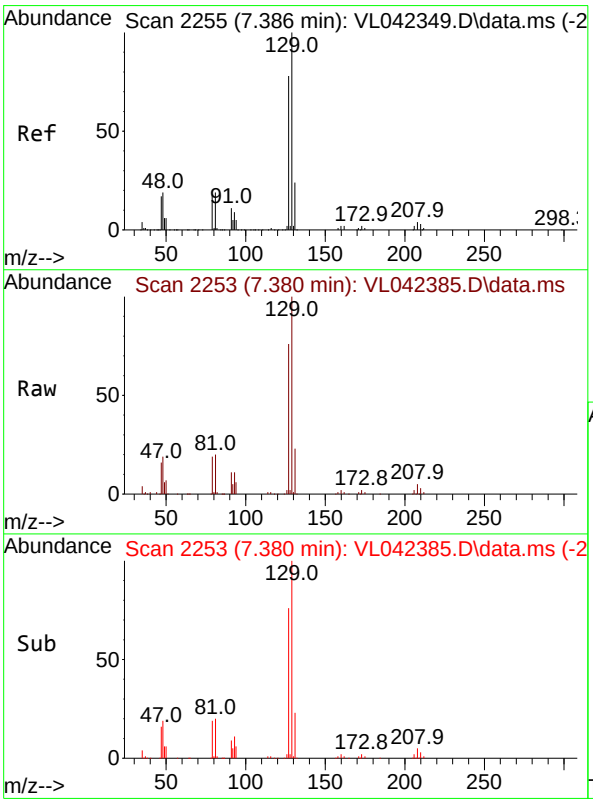
Ion	Ratio	Lower	Upper
97	100		
83	89.5	72.8	109.2
85	51.5	44.2	66.4
99	63.2	47.9	71.9



Instrument :
MSVOA_L
ClientSampleId :
VL0418ABS01

Manual Integrations
APPROVED

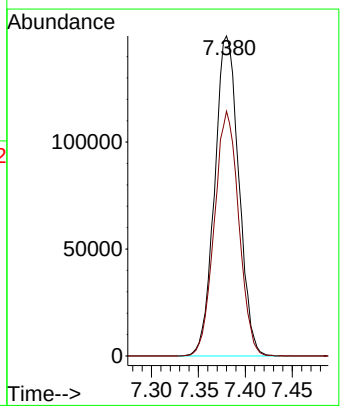
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025

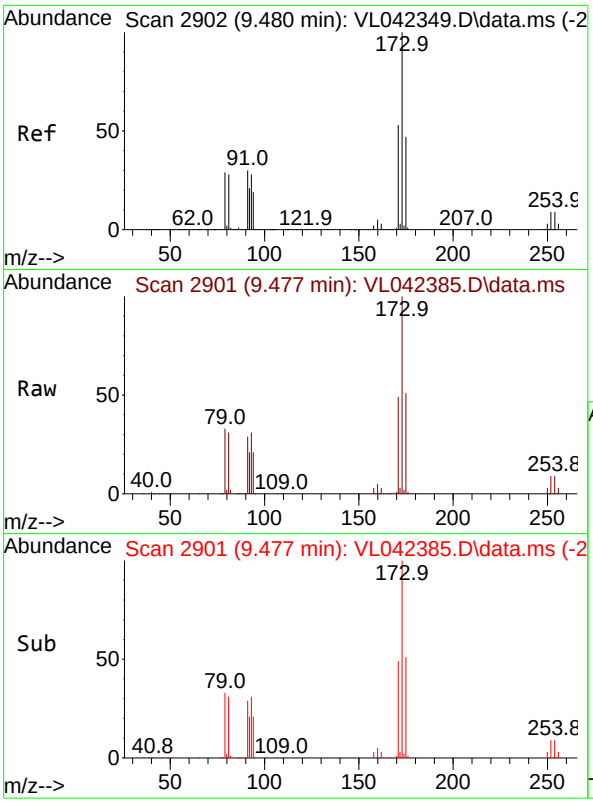


#48
Dibromochloromethane
Concen: 8.756 ppbv
RT: 7.380 min Scan# 2253
Delta R.T. -0.006 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Tgt Ion:129 Resp: 267219

Ion	Ratio	Lower	Upper
129	100		
127	77.3	39.1	117.3

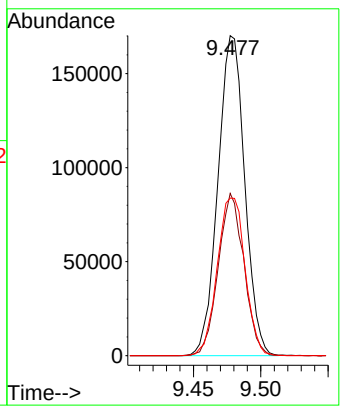




#49
Bromoform
Concen: 8.823 ppbv
RT: 9.477 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Tgt Ion:173 Resp: 23545

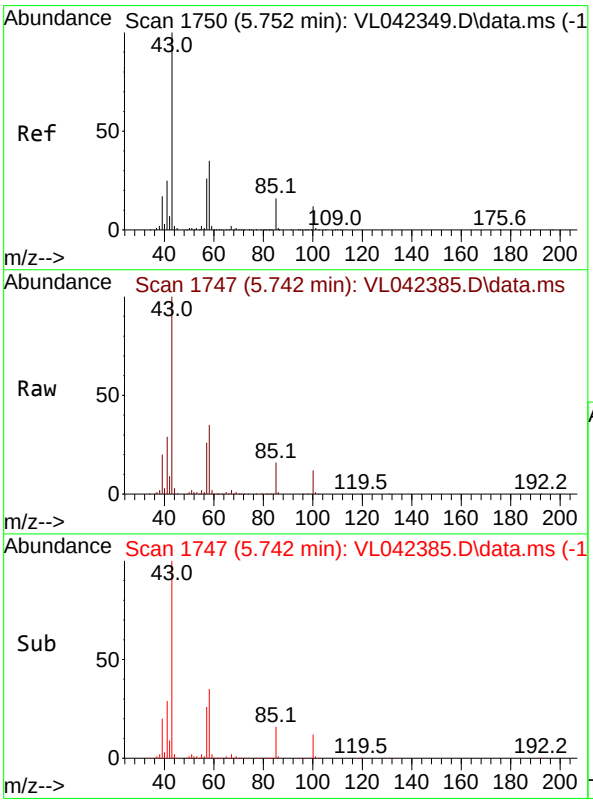
Ion	Ratio	Lower	Upper
173	100		
175	48.4	38.2	57.2
171	51.3	40.9	61.3



Instrument :
MSVOA_L
ClientSampleId :
VL0418ABS01

Manual Integrations
APPROVED

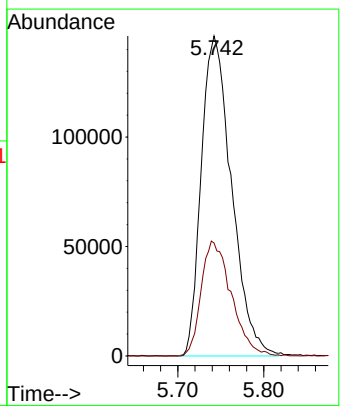
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025

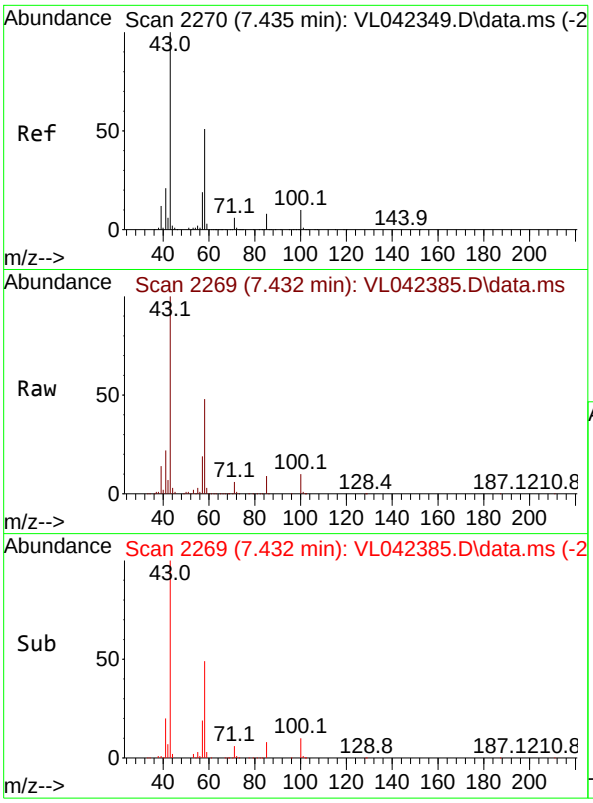


#50
4-Methyl-2-Pentanone
Concen: 6.440 ppbv
RT: 5.742 min Scan# 1747
Delta R.T. -0.010 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Tgt Ion: 43 Resp: 357049

Ion	Ratio	Lower	Upper
43	100		
58	35.8	28.6	43.0

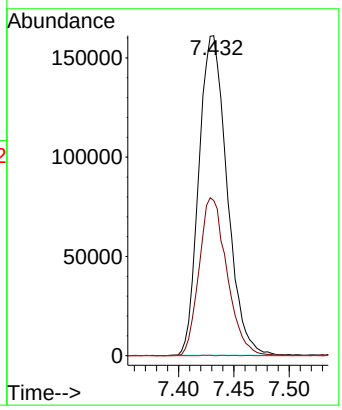




#51
2-Hexanone
Concen: 5.729 ppbv
RT: 7.432 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Tgt Ion: 43 Resp: 28483

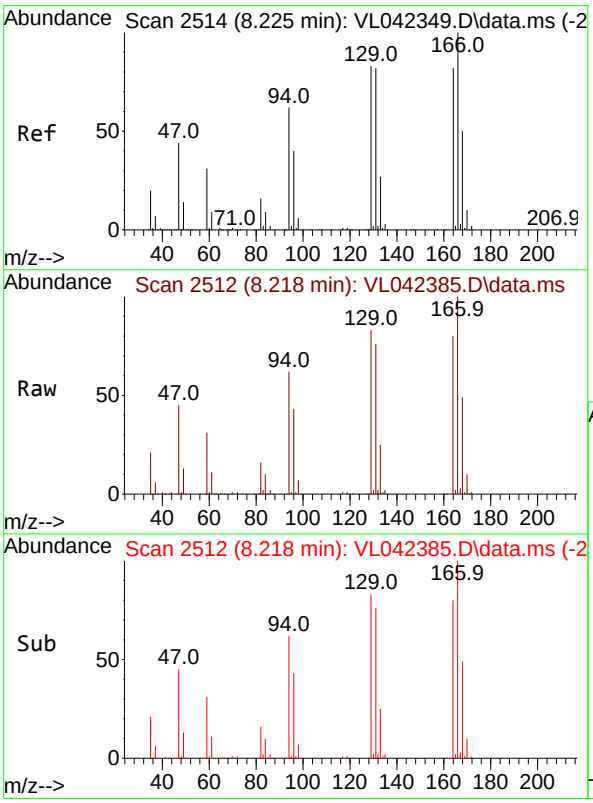
Ion	Ratio	Lower	Upper
43	100		
58	48.9	40.2	60.4
98	0.1	0.1	0.1



Instrument :
MSVOA_L
ClientSampleId :
VL0418ABS01

Manual Integrations
APPROVED

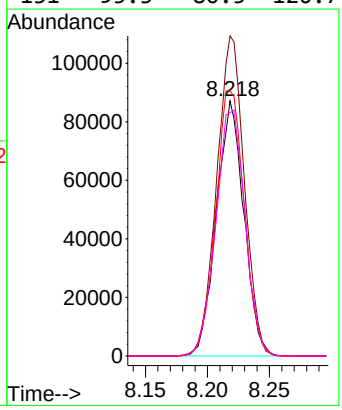
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025

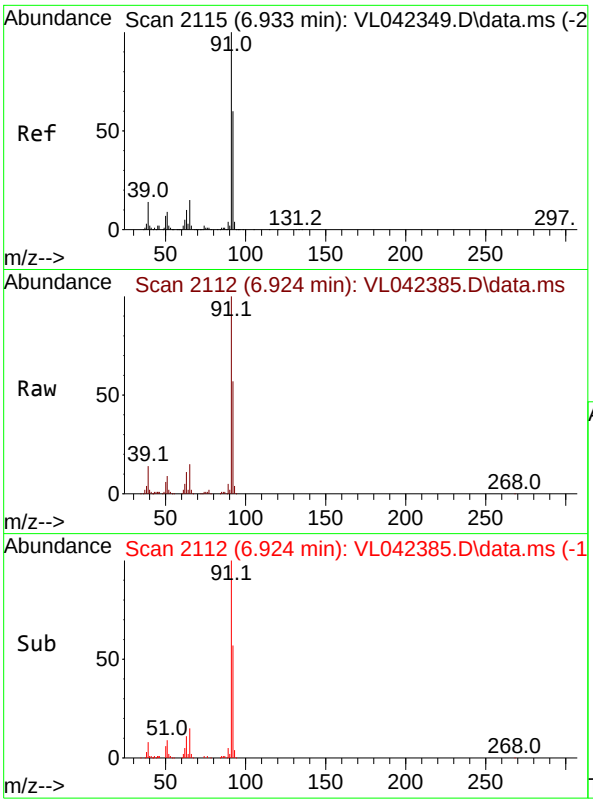


#52
Tetrachloroethene
Concen: 7.663 ppbv
RT: 8.218 min Scan# 2512
Delta R.T. -0.006 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Tgt Ion:164 Resp: 134768

Ion	Ratio	Lower	Upper
164	100		
166	125.6	98.2	147.2
129	104.1	81.8	122.8
131	95.3	80.5	120.7

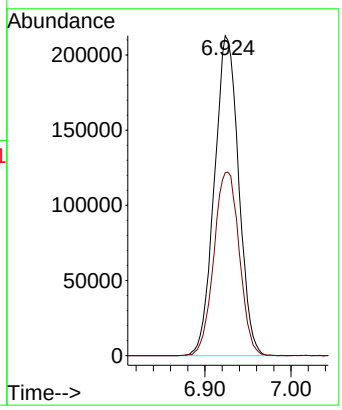




#53
Toluene
Concen: 7.627 ppbv
RT: 6.924 min Scan# 21
Delta R.T. -0.010 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Tgt Ion: 91 Resp: 41642

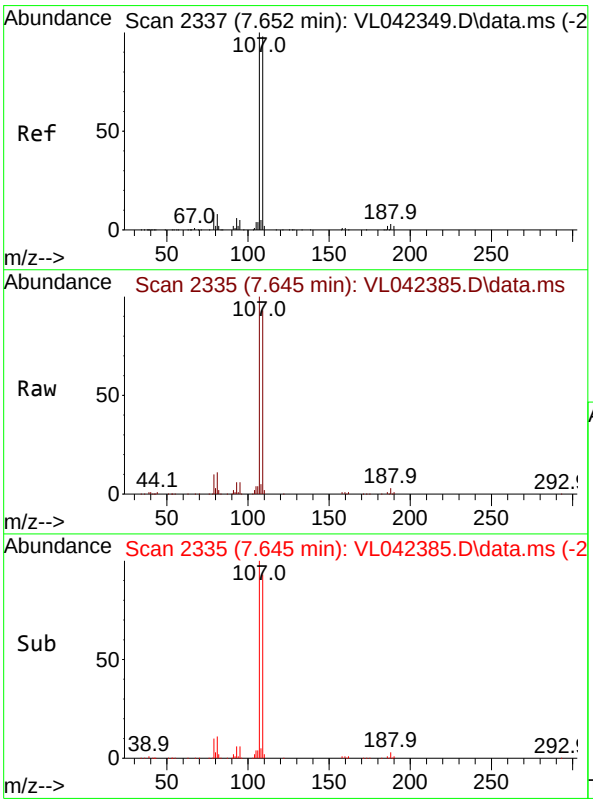
Ion	Ratio	Lower	Upper
91	100		
92	60.2	48.2	72.4



Instrument :
MSVOA_L
ClientSampleId :
VL0418ABS01

Manual Integrations
APPROVED

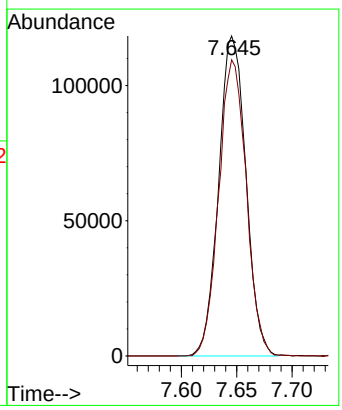
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025

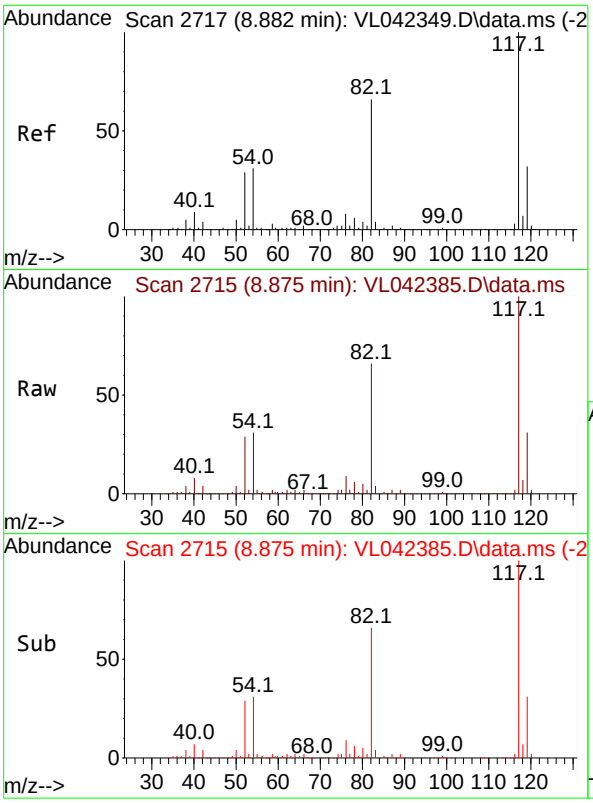


#54
1,2-Dibromoethane
Concen: 8.204 ppbv
RT: 7.645 min Scan# 2335
Delta R.T. -0.006 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Tgt Ion:107 Resp: 202809

Ion	Ratio	Lower	Upper
107	100		
109	92.5	78.2	117.4

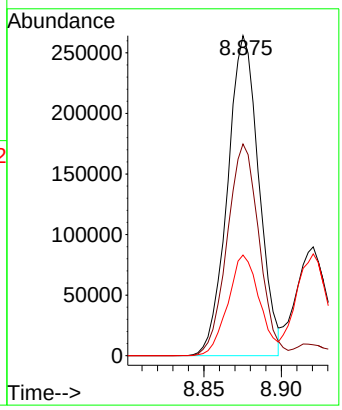




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 2
Delta R.T. -0.006 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Tgt Ion:117 Resp: 37154

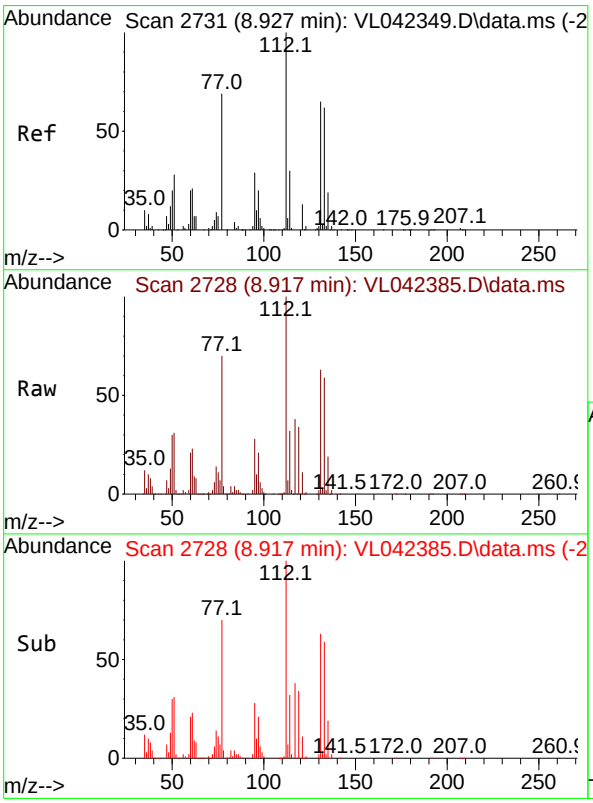
Ion	Ratio	Lower	Upper
117	100		
82	71.0	57.8	86.6
119	32.7	25.2	37.8



Instrument :
MSVOA_L
ClientSampleId :
VL0418ABS01

Manual Integrations
APPROVED

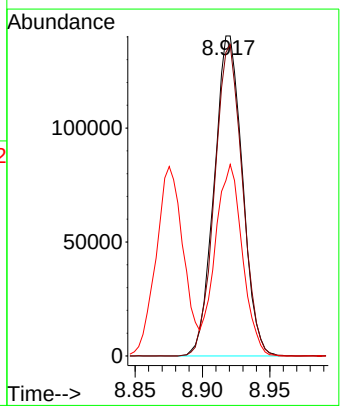
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025

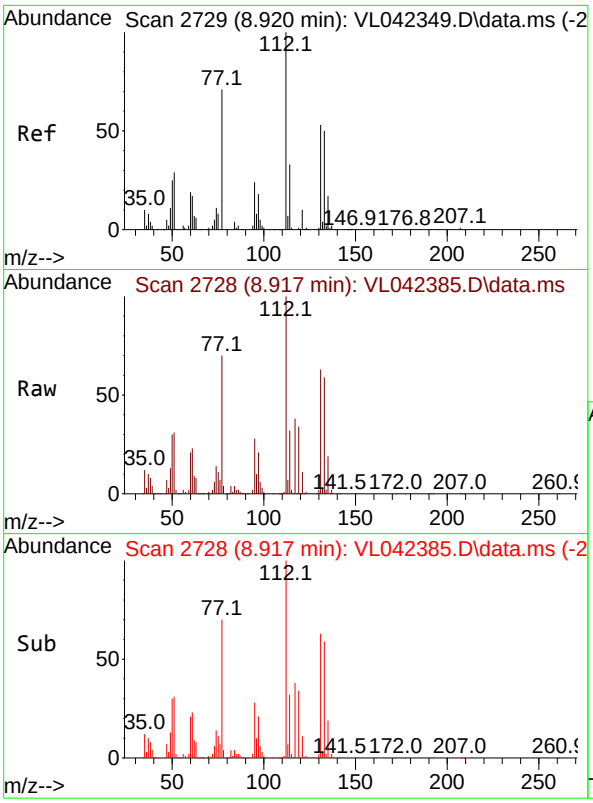


#56
1,1,1,2-Tetrachloroethane
Concen: 9.093 ppbv
RT: 8.917 min Scan# 2728
Delta R.T. -0.010 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Tgt Ion:131 Resp: 204475

Ion	Ratio	Lower	Upper
131	100		
133	96.1	78.3	117.5
119	57.8	48.7	73.1

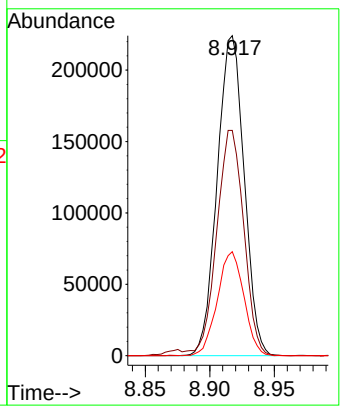




#57
Chlorobenzene
Concen: 8.438 ppbv
RT: 8.917 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Tgt Ion:112 Resp: 32607

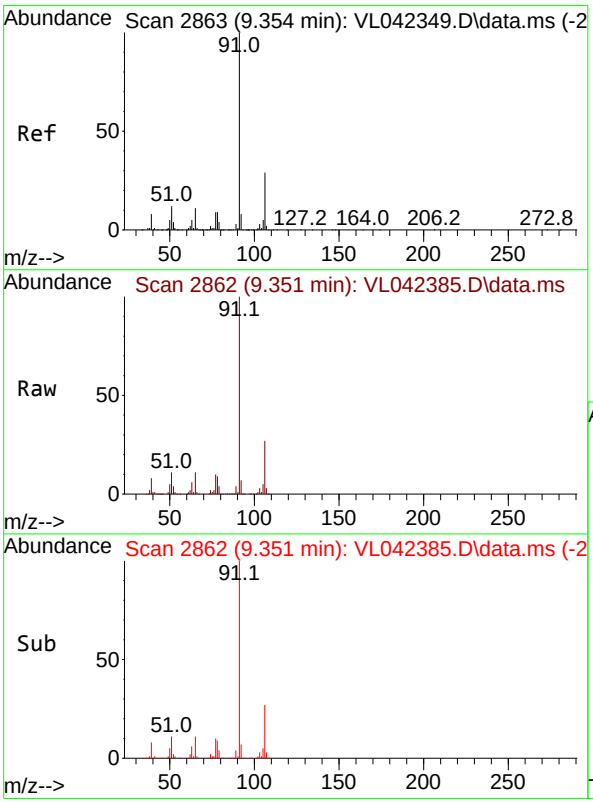
Ion	Ratio	Lower	Upper
112	100		
77	70.2	57.8	86.6
114	32.5	29.3	35.9



Instrument :
MSVOA_L
ClientSampleId :
VL0418ABS01

Manual Integrations
APPROVED

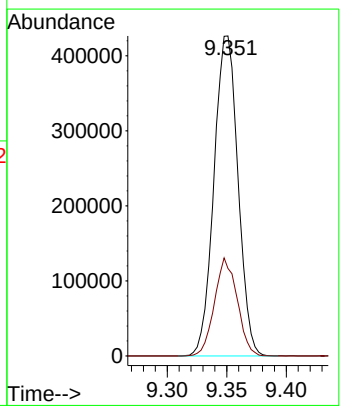
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025

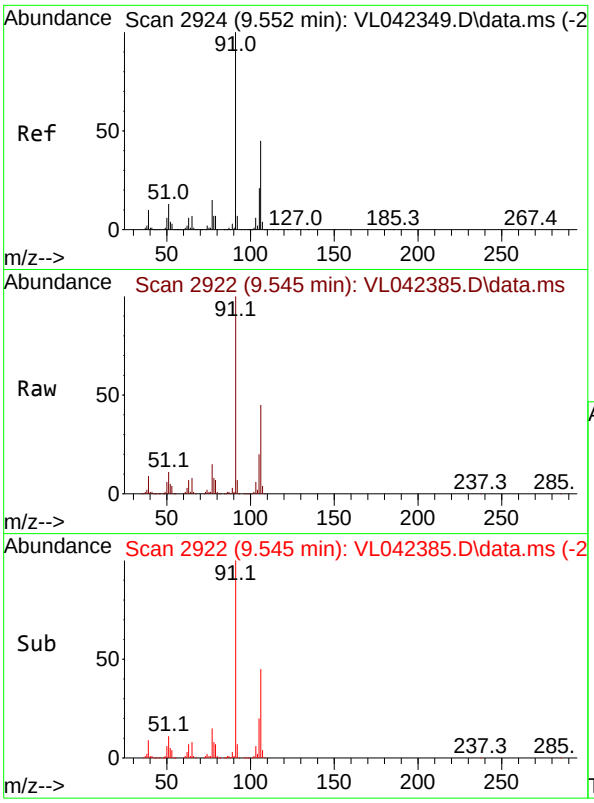


#58
Ethyl Benzene
Concen: 8.117 ppbv
RT: 9.351 min Scan# 2862
Delta R.T. -0.003 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Tgt Ion: 91 Resp: 597552

Ion	Ratio	Lower	Upper
91	100		
106	27.3	23.0	34.4

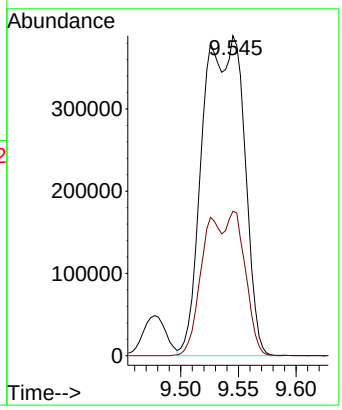




#59
m/p-Xylene
Concen: 16.427 ppbv m
RT: 9.545 min Scan# 2
Delta R.T. -0.006 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Tgt Ion: 91 Resp: 97415

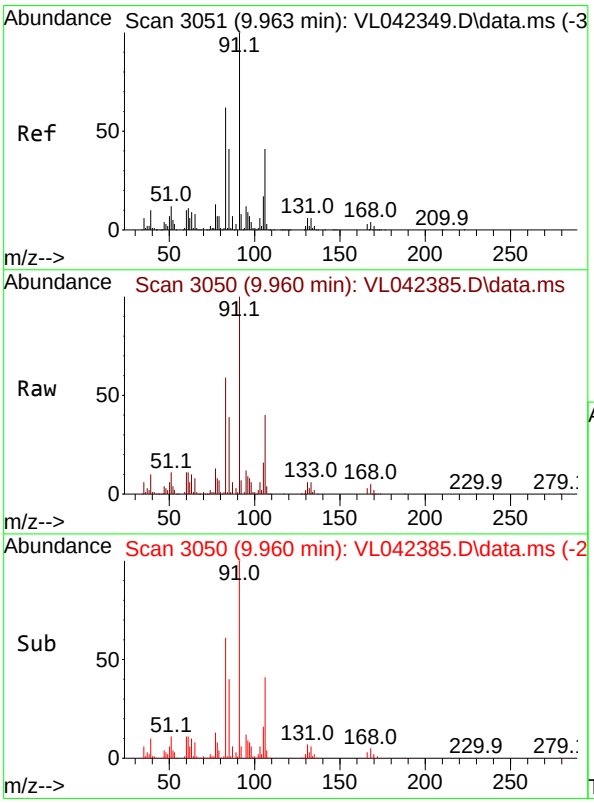
Ion	Ratio	Lower	Upper
91	100		
106	44.2	35.4	53.2



Instrument :
MSVOA_L
ClientSampleId :
VL0418ABS01

Manual Integrations
APPROVED

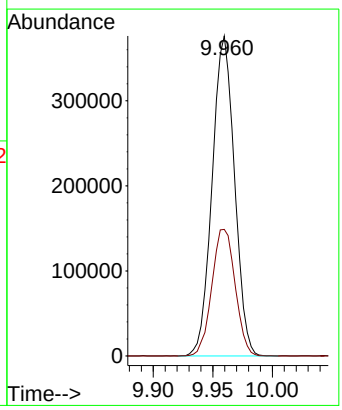
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025

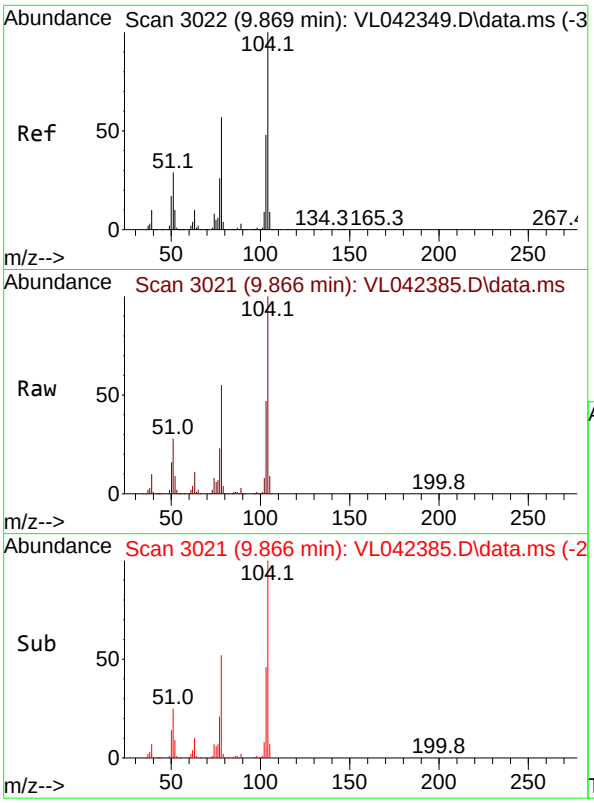


#60
o-Xylene
Concen: 8.203 ppbv
RT: 9.960 min Scan# 3050
Delta R.T. -0.003 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Tgt Ion: 91 Resp: 489890

Ion	Ratio	Lower	Upper
91	100		
106	41.3	21.1	63.4

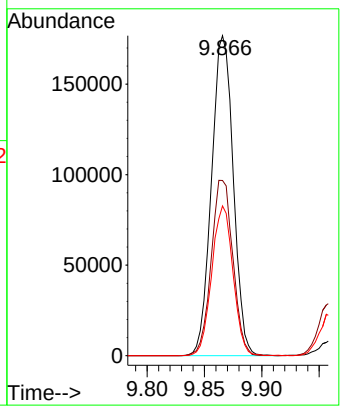




#61
Styrene
Concen: 8.173 ppbv
RT: 9.866 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Tgt Ion:104 Resp: 23296

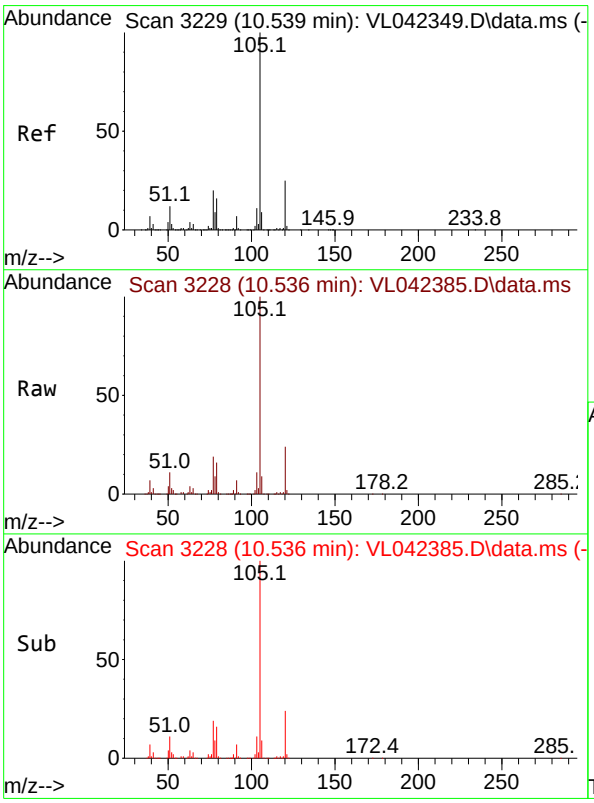
Ion	Ratio	Lower	Upper
104	100		
78	54.7	44.6	66.8
103	45.8	37.4	56.0



Instrument :
MSVOA_L
ClientSampleId :
VL0418ABS01

Manual Integrations
APPROVED

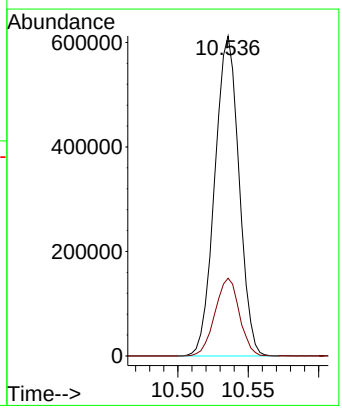
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025

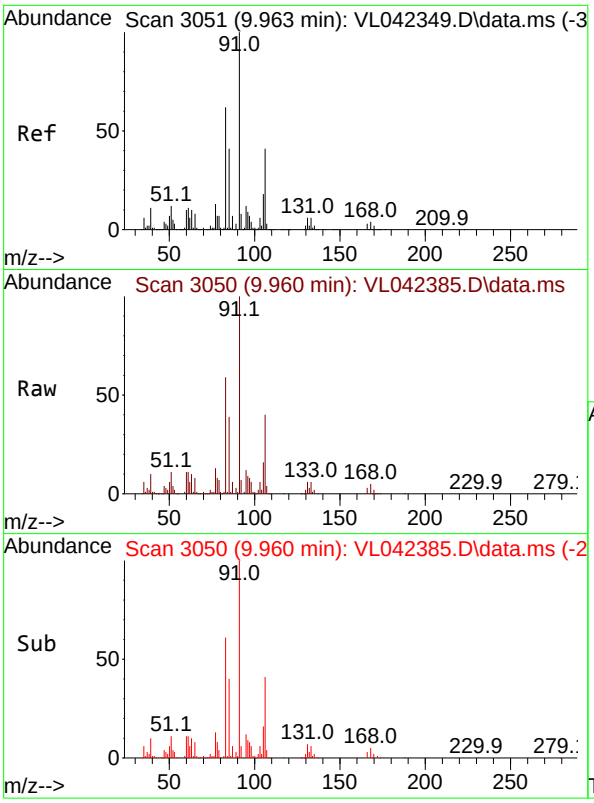


#62
Isopropylbenzene
Concen: 8.376 ppbv
RT: 10.536 min Scan# 3228
Delta R.T. -0.003 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Tgt Ion:105 Resp: 734342

Ion	Ratio	Lower	Upper
105	100		
120	24.4	19.8	29.8





#63
1,1,2,2-Tetrachloroethane
Concen: 7.298 ppbv
RT: 9.960 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

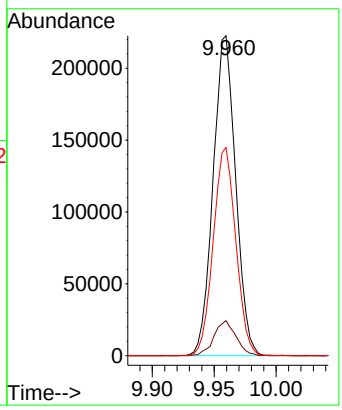
Tgt Ion: 83 Resp: 28242

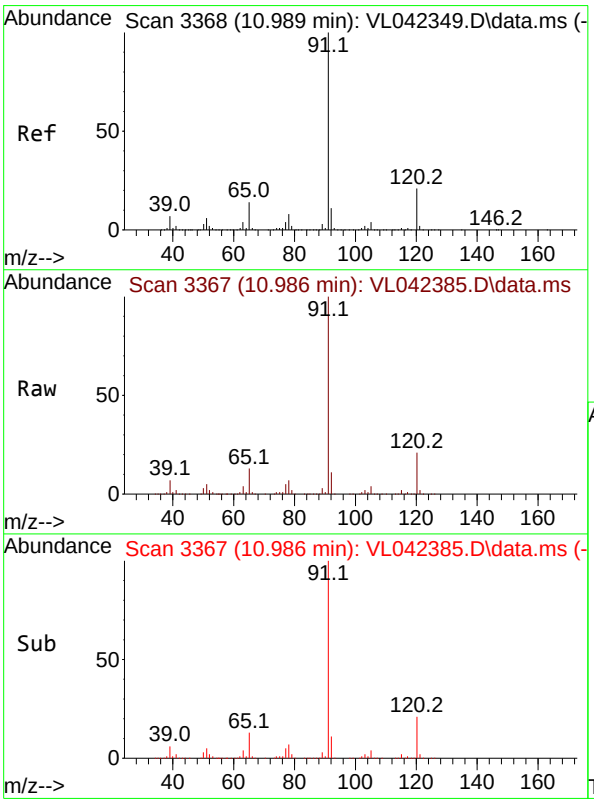
Ion	Ratio	Lower	Upper
83	100		
131	10.7	4.5	13.7
85	65.1	32.4	97.0

Instrument :
MSVOA_L
ClientSampleId :
VL0418ABS01

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025

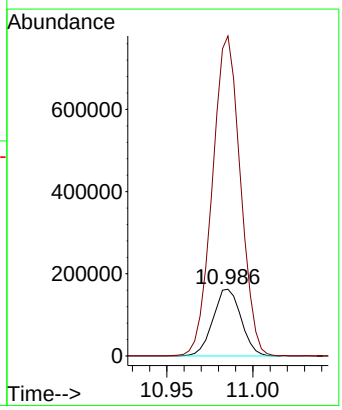


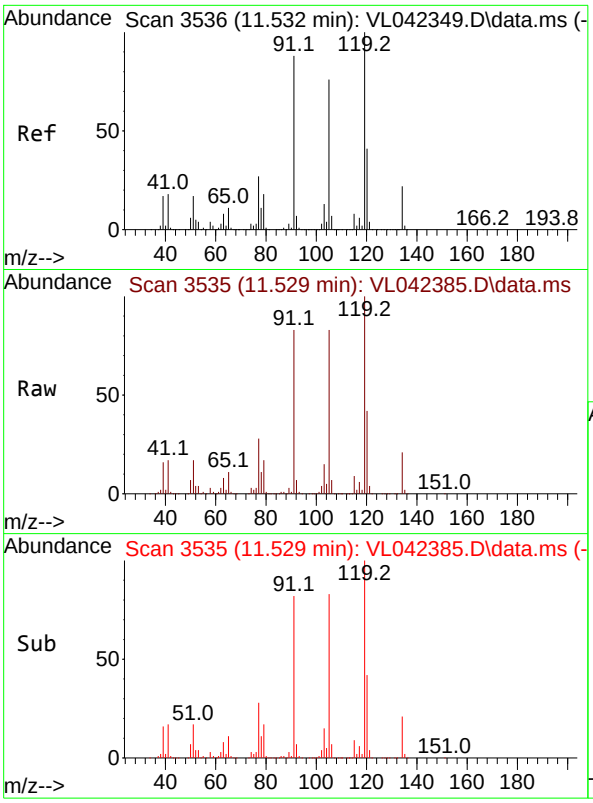


#64
n-propylbenzene
Concen: 8.383 ppbv
RT: 10.986 min Scan# 3367
Delta R.T. -0.003 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Tgt Ion:120 Resp: 184746

Ion	Ratio	Lower	Upper
120	100		
91	478.4	392.4	588.6

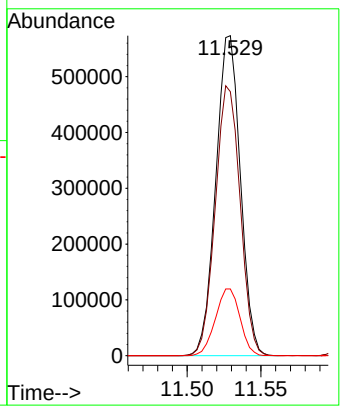




#65
tert-Butylbenzene
Concen: 8.256 ppbv
RT: 11.529 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Tgt Ion:119 Resp: 66532

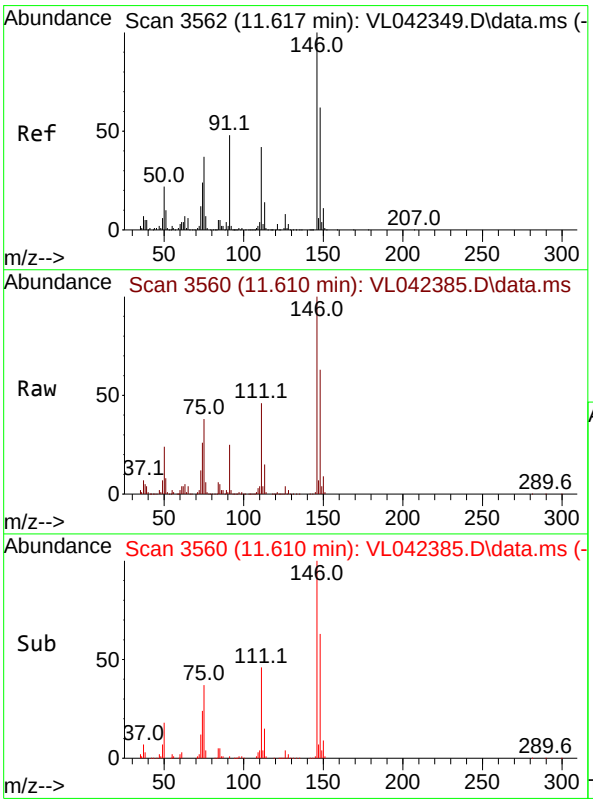
Ion	Ratio	Lower	Upper
119	100		
91	85.3	74.6	111.8
134	20.9	18.8	28.2



Instrument :
MSVOA_L
ClientSampleId :
VL0418ABS01

Manual Integrations
APPROVED

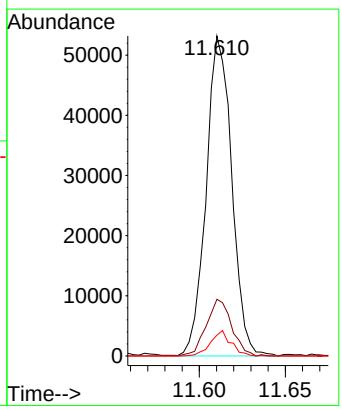
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025

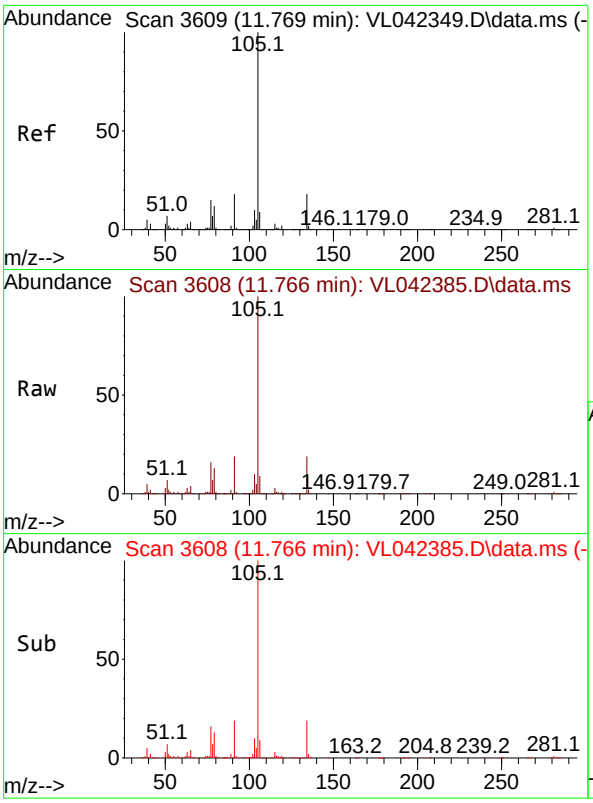


#66
Benzyl Chloride
Concen: 6.223 ppbv
RT: 11.610 min Scan# 3560
Delta R.T. -0.006 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Tgt Ion: 91 Resp: 55103

Ion	Ratio	Lower	Upper
91	100		
126	17.5	11.8	17.6
128	6.3	4.5	6.7

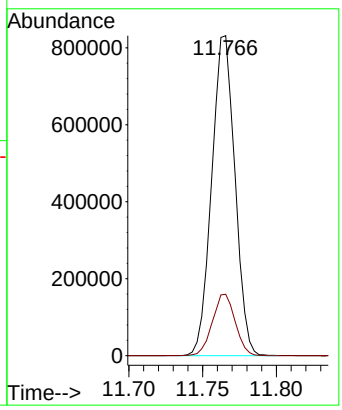




#67
sec-Butylbenzene
Concen: 8.129 ppbv
RT: 11.766 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Tgt Ion:105 Resp: 91116

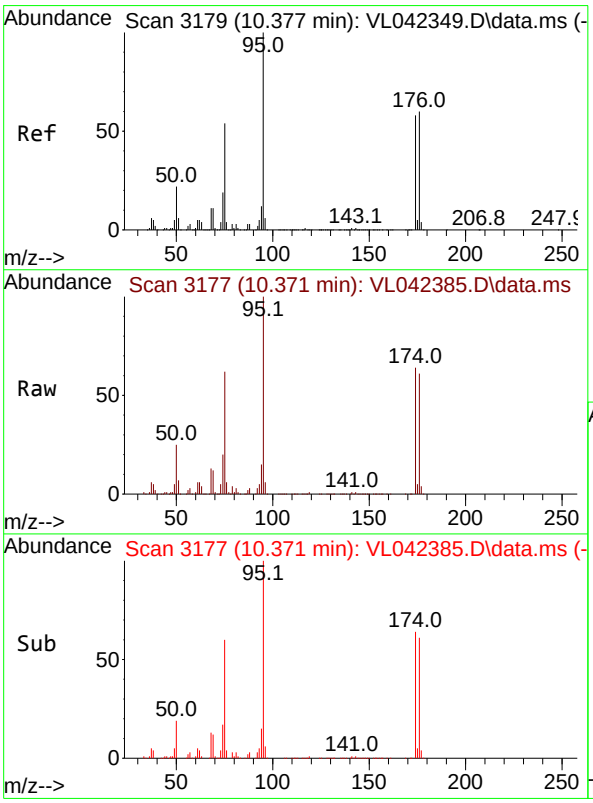
Ion	Ratio	Lower	Upper
105	100		
134	18.9	14.6	21.8



Instrument :
MSVOA_L
ClientSampleId :
VL0418ABS01

Manual Integrations
APPROVED

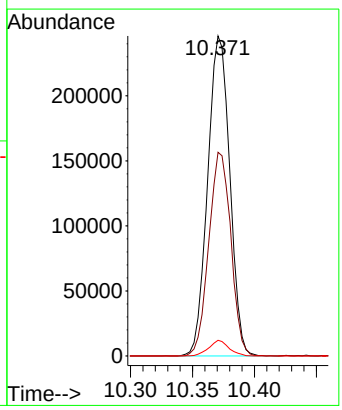
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025

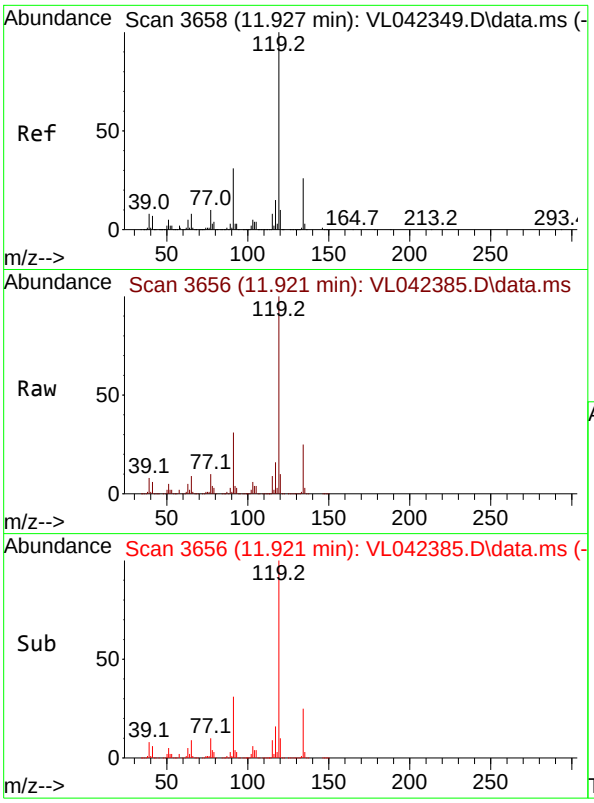


#68
1-Bromo-4-Fluorobenzene
Concen: 10.024 ppbv
RT: 10.371 min Scan# 3177
Delta R.T. -0.006 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Tgt Ion: 95 Resp: 306062

Ion	Ratio	Lower	Upper
95	100		
174	63.5	48.5	72.7
175	4.4	3.7	5.5

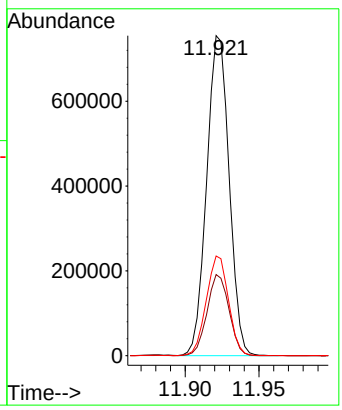




#69
p-Isopropyltoluene
Concen: 8.209 ppbv
RT: 11.921 min Scan# 3
Delta R.T. -0.006 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Tgt Ion:119 Resp: 79933

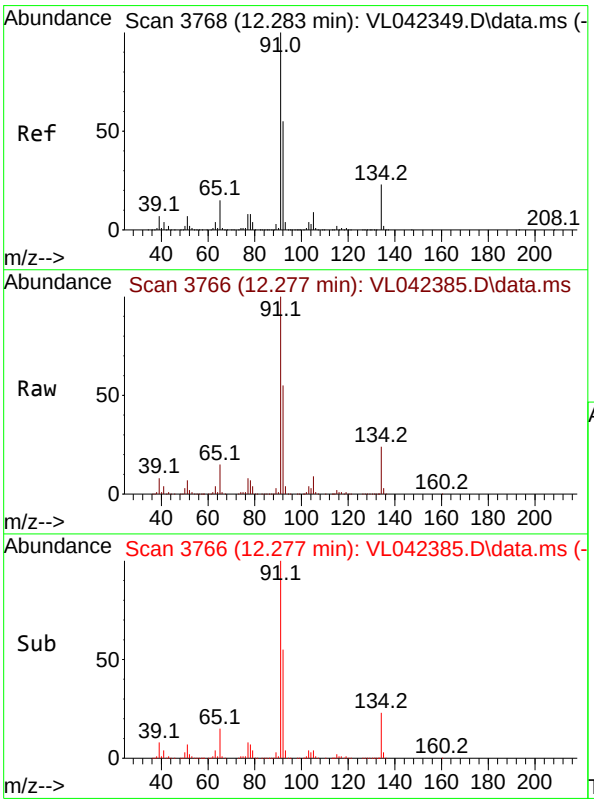
Ion	Ratio	Lower	Upper
119	100		
134	24.9	20.0	30.0
91	30.9	24.4	36.6



Instrument :
MSVOA_L
ClientSampleId :
VL0418ABS01

Manual Integrations
APPROVED

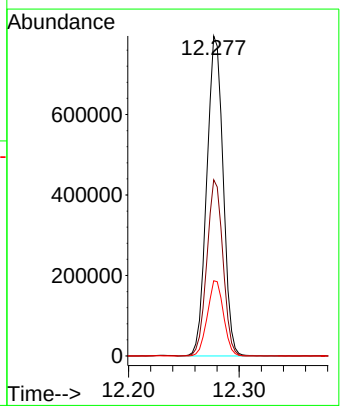
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025

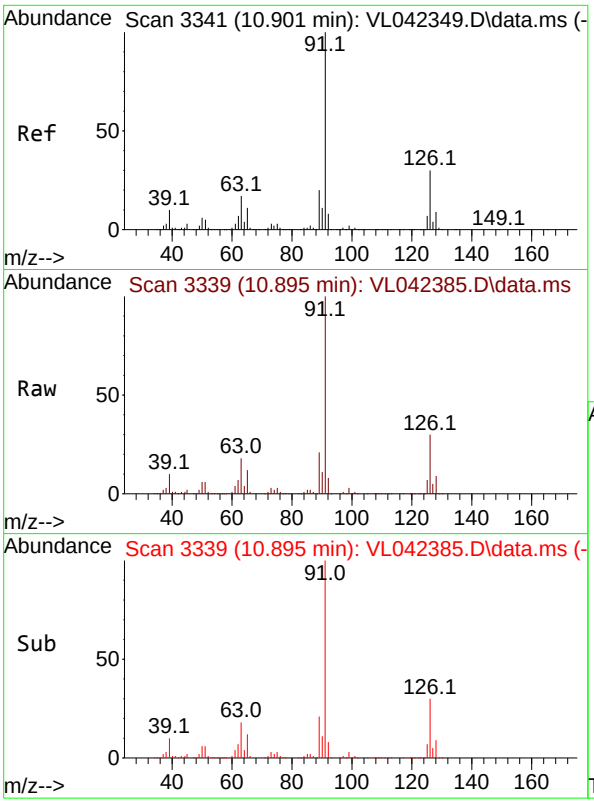


#70
n-Butylbenzene
Concen: 8.061 ppbv
RT: 12.277 min Scan# 3766
Delta R.T. -0.006 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Tgt Ion: 91 Resp: 817538

Ion	Ratio	Lower	Upper
91	100		
92	54.4	44.2	66.4
134	23.2	18.2	27.4

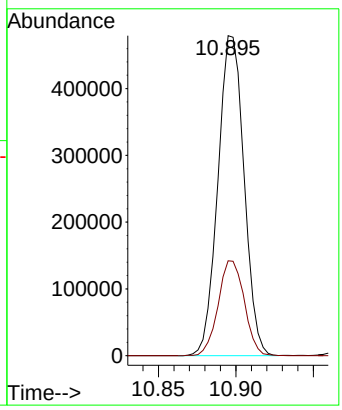




#71
2-Chlorotoluene
Concen: 8.180 ppbv
RT: 10.895 min Scan# 3
Delta R.T. -0.006 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Tgt Ion: 91 Resp: 56248

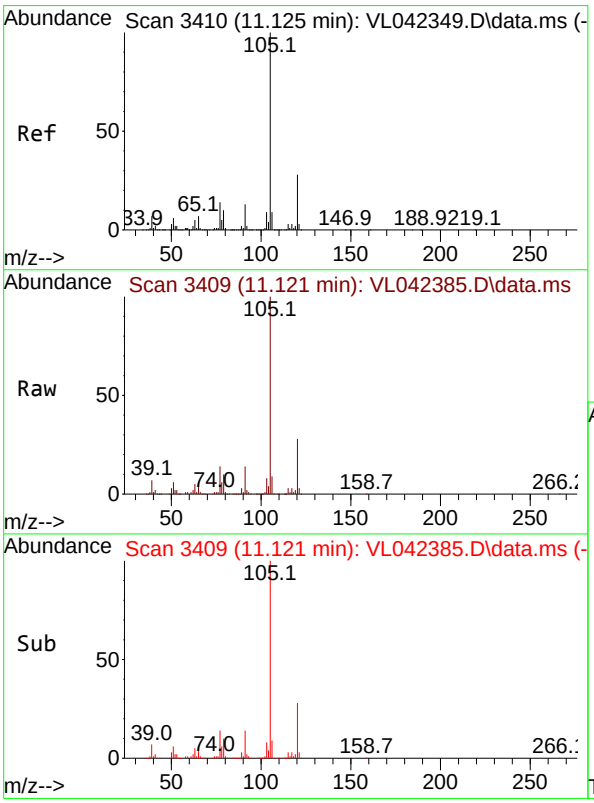
Ion	Ratio	Lower	Upper
91	100		
126	29.6	11.4	45.4



Instrument :
MSVOA_L
ClientSampleId :
VL0418ABS01

Manual Integrations
APPROVED

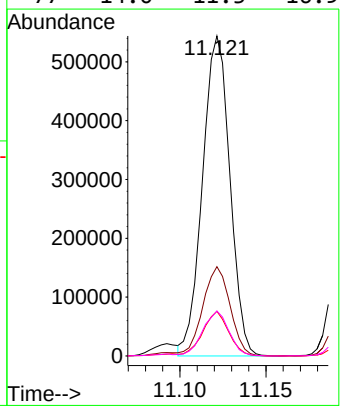
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025

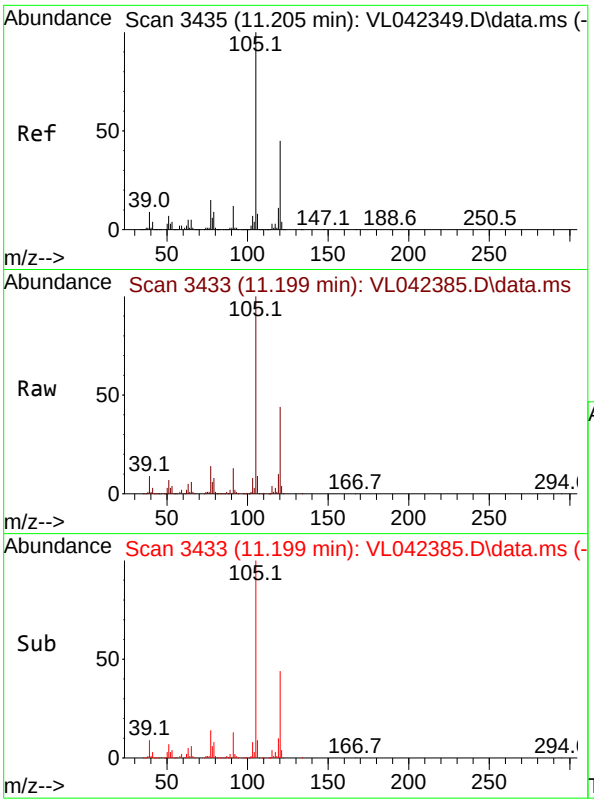


#72
4-Ethyltoluene
Concen: 8.256 ppbv
RT: 11.121 min Scan# 3409
Delta R.T. -0.003 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Tgt Ion:105 Resp: 602711

Ion	Ratio	Lower	Upper
105	100		
120	28.7	23.2	34.8
91	13.8	10.4	15.6
77	14.0	11.3	16.9

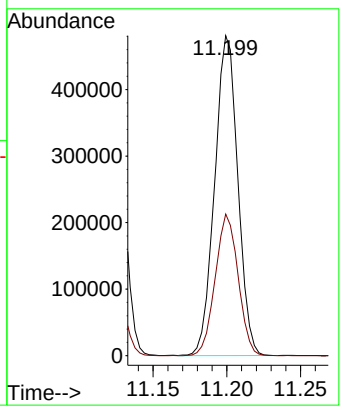




#73
1,3,5-Trimethylbenzene
Concen: 8.135 ppbv
RT: 11.199 min Scan# 34
Delta R.T. -0.006 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Tgt Ion:105 Resp: 52436

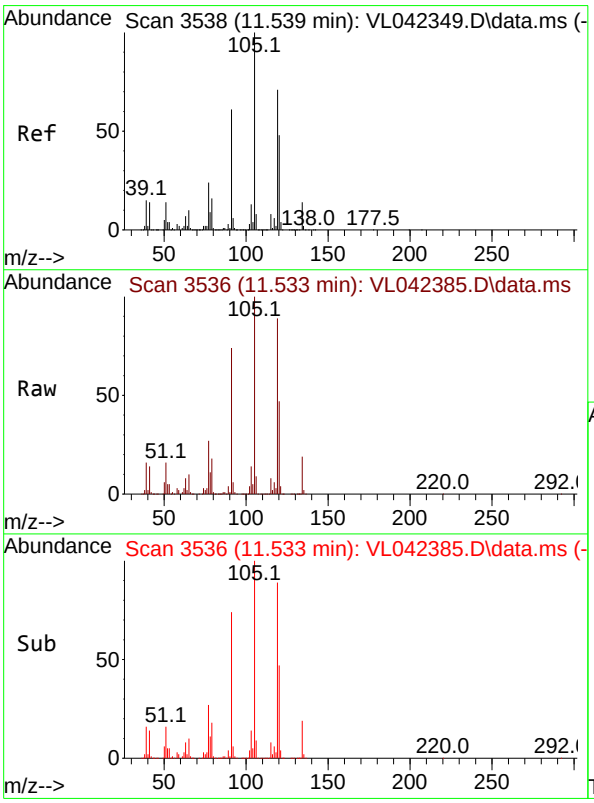
Ion	Ratio	Lower	Upper
105	100		
120	44.3	35.6	53.4



Instrument :
MSVOA_L
ClientSampleId :
VL0418ABS01

Manual Integrations
APPROVED

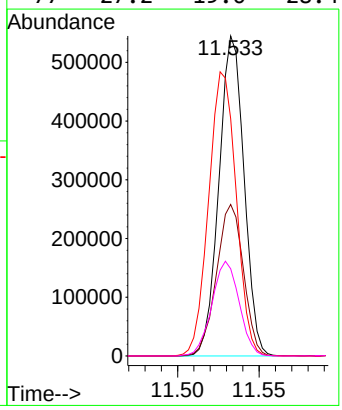
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025

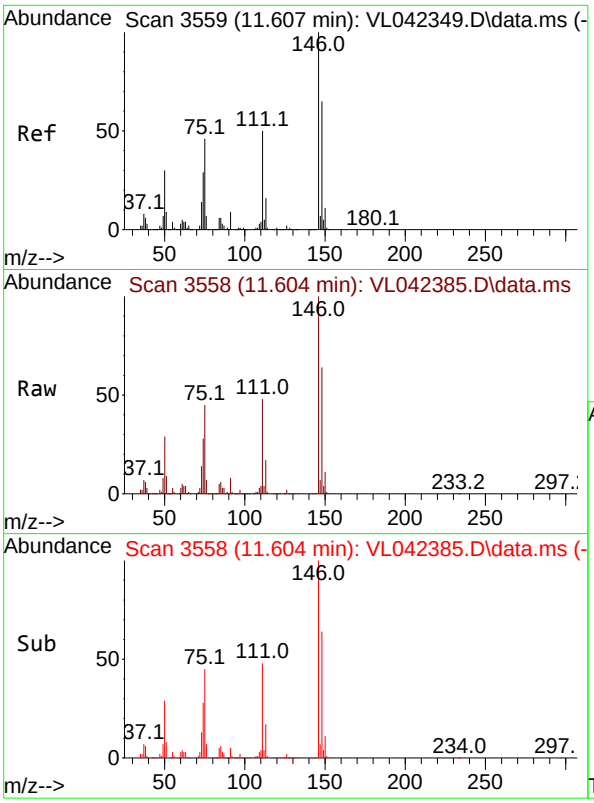


#74
1,2,4-Trimethylbenzene
Concen: 7.749 ppbv
RT: 11.533 min Scan# 3536
Delta R.T. -0.006 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Tgt Ion:105 Resp: 583351

Ion	Ratio	Lower	Upper
105	100		
120	47.3	38.1	57.1
91	74.1	48.8	73.2#
77	27.2	19.0	28.4

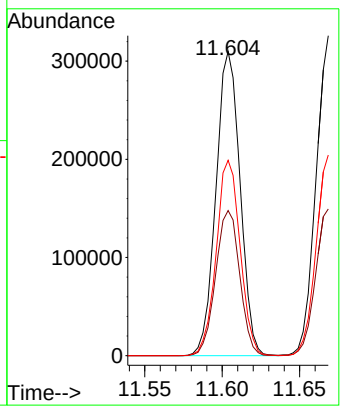




#75
1,3-Dichlorobenzene
Concen: 8.575 ppbv
RT: 11.604 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Tgt Ion:146 Resp: 33553

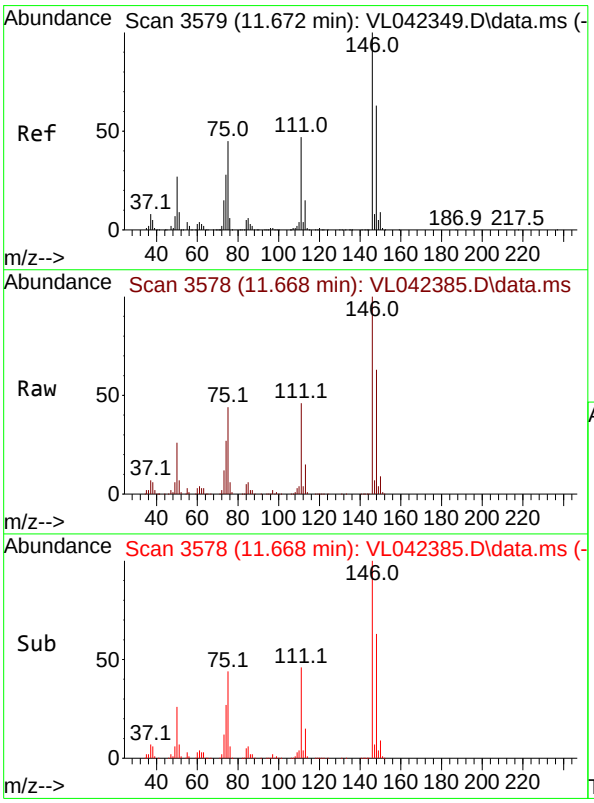
Ion	Ratio	Lower	Upper
146	100		
111	47.8	24.3	72.8
148	63.5	31.6	94.8



Instrument :
MSVOA_L
ClientSampleId :
VL0418ABS01

Manual Integrations
APPROVED

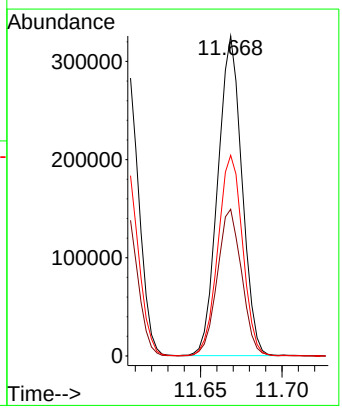
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025

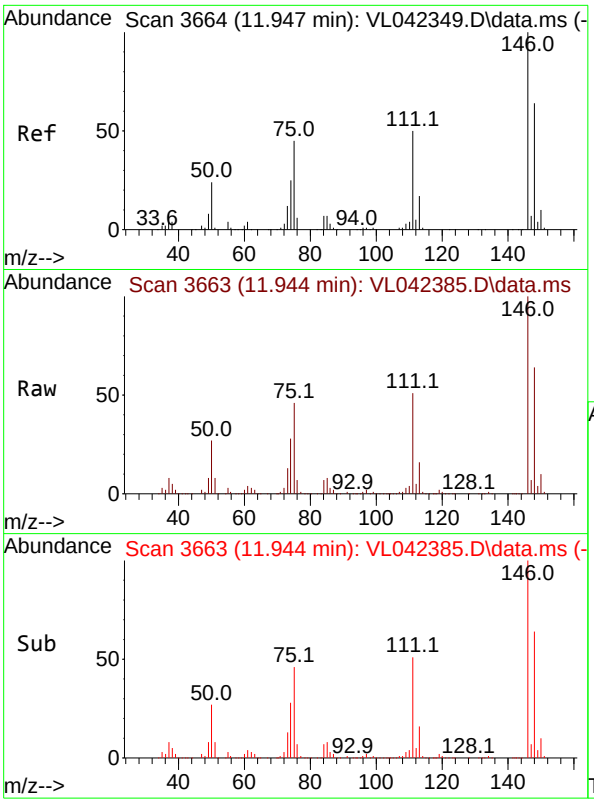


#76
1,4-Dichlorobenzene
Concen: 8.520 ppbv
RT: 11.668 min Scan# 3578
Delta R.T. -0.003 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Tgt Ion:146 Resp: 335101

Ion	Ratio	Lower	Upper
146	100		
111	46.5	24.2	72.6
148	64.2	32.1	96.5

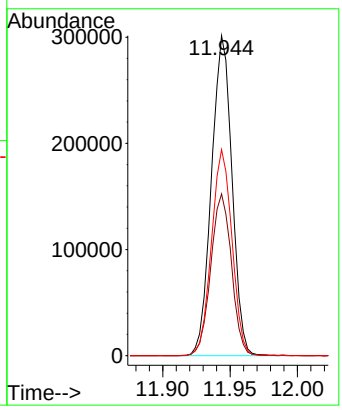




#77
1,2-Dichlorobenzene
Concen: 8.396 ppbv
RT: 11.944 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Tgt Ion:146 Resp: 31946

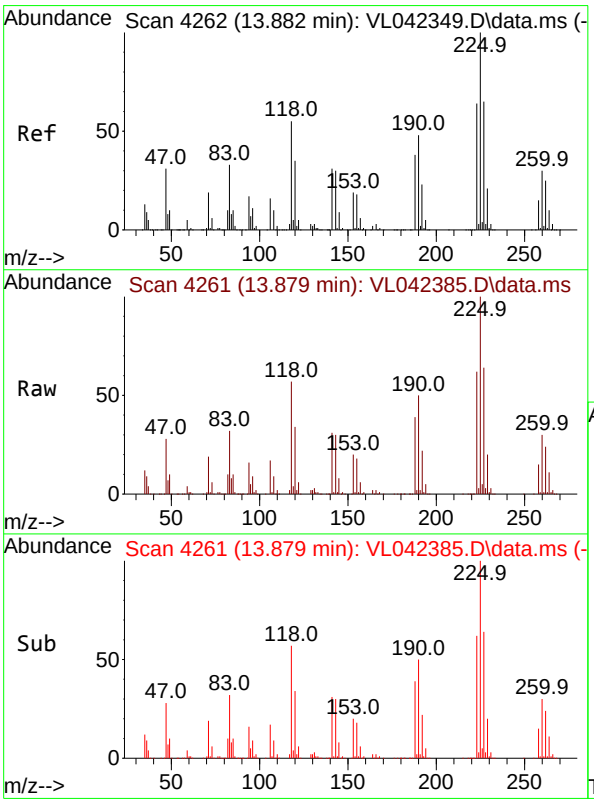
Ion	Ratio	Lower	Upper
146	100		
111	51.0	25.3	75.9
148	64.3	31.5	94.5



Instrument :
MSVOA_L
ClientSampleId :
VL0418ABS01

Manual Integrations
APPROVED

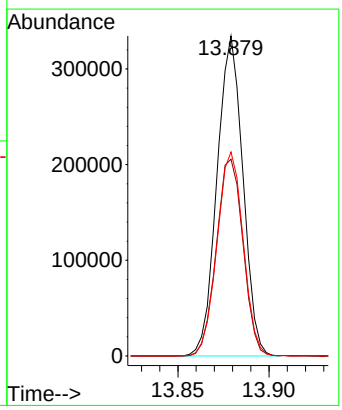
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025

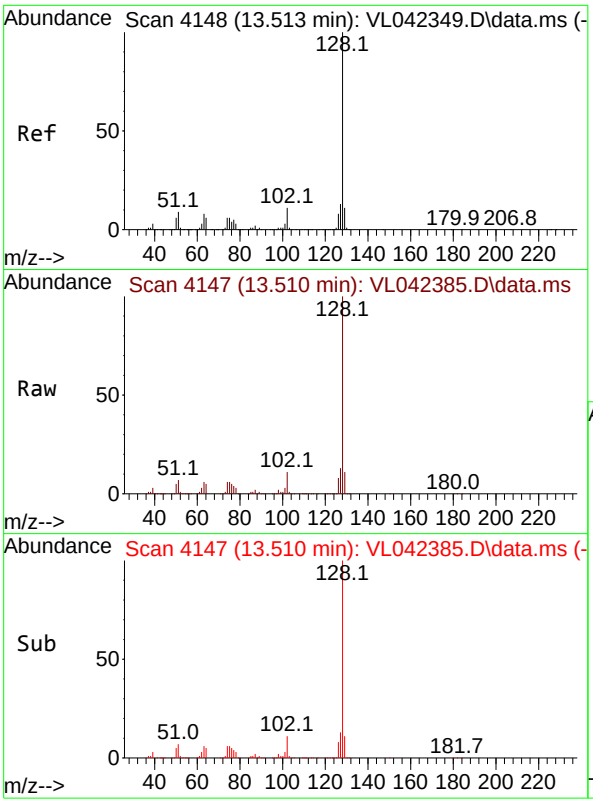


#78
Hexachloro-1,3-Butadiene
Concen: 8.584 ppbv
RT: 13.879 min Scan# 4261
Delta R.T. -0.003 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Tgt Ion:225 Resp: 329813

Ion	Ratio	Lower	Upper
225	100		
223	63.6	50.3	75.5
227	64.6	51.5	77.3

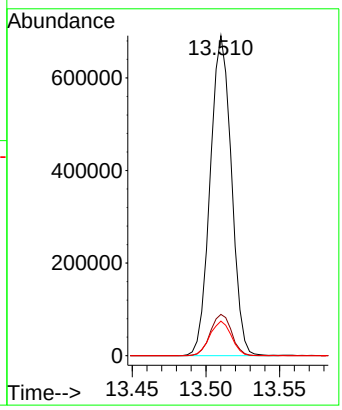




#79
Naphthalene
Concen: 7.676 ppbv
RT: 13.510 min Scan# 4
Delta R.T. -0.003 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Tgt Ion:128 Resp: 69105

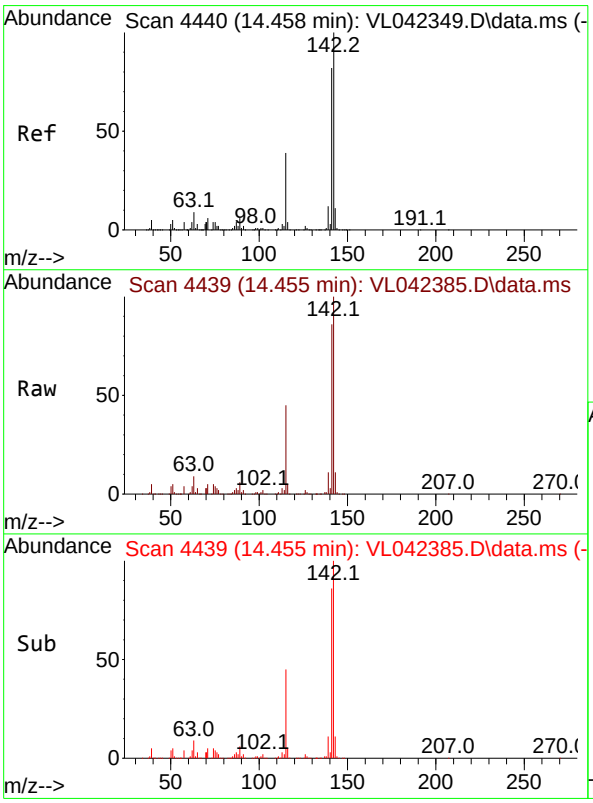
Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.6	15.8
129	10.8	8.6	12.8



Instrument :
MSVOA_L
ClientSampleId :
VL0418ABS01

Manual Integrations
APPROVED

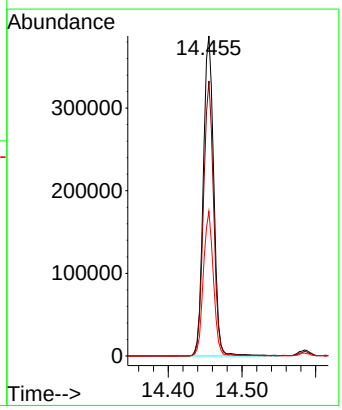
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025

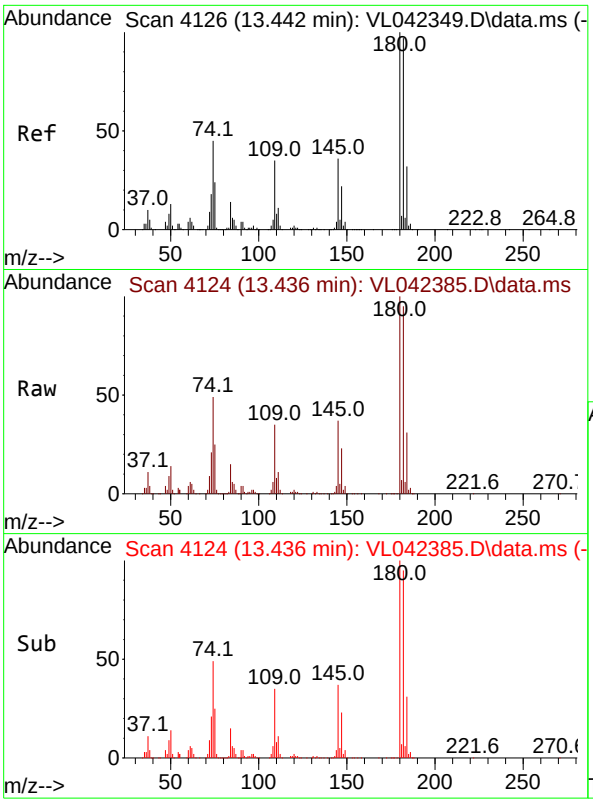


#80
Naphthalene,2-methyl-
Concen: 7.407 ppbv
RT: 14.455 min Scan# 4439
Delta R.T. -0.003 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Tgt Ion:142 Resp: 380016

Ion	Ratio	Lower	Upper
142	100		
141	83.9	66.8	100.2
115	43.9	33.4	50.2

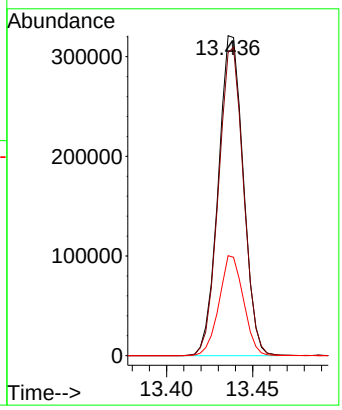




#81
1,2,4-Trichlorobenzene
Concen: 8.408 ppbv
RT: 13.436 min Scan# 4
Delta R.T. -0.006 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Tgt Ion:180 Resp: 32501

Ion	Ratio	Lower	Upper
180	100		
182	96.1	76.8	115.2
184	30.5	24.6	36.8



Instrument :
MSVOA_L
ClientSampleId :
VL0418ABS01

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025

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:	IA-B2-3-03312025DL2DUP	SDG No.:	Q1726
Lab Sample ID:	Q1726-06DL2DUP	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
VL042393.D	100		04/18/25 15:47	VL041825

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	21.0	104	U	104	247	ug/m3
64-17-5	Ethanol	220	415		60.3	94.2	ug/m3
74-87-3	Chloromethane	9.80	20.2	U	20.2	103	ug/m3
75-01-4	Vinyl Chloride	1.40	3.58	U	3.58	7.67	ug/m3
74-83-9	Bromomethane	14.0	54.4	U	54.4	194	ug/m3
75-00-3	Chloroethane	17.0	44.9	U	44.9	132	ug/m3
109-99-9	Tetrahydrofuran	13.0	38.3	U	38.3	147	ug/m3
75-69-4	Trichlorofluoromethane	16.0	89.9	U	89.9	281	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	16.0	123	U	123	383	ug/m3
76-14-2	Dichlorotetrafluoroethane	8.80	61.5	U	61.5	349	ug/m3
593-60-2	Bromoethene	12.0	52.5	U	52.5	219	ug/m3
75-65-0	tert-Butyl alcohol	19.0	57.6	U	57.6	152	ug/m3
142-82-5	Heptane	11.0	45.1	U	45.1	205	ug/m3
67-63-0	Isopropyl Alcohol	30.1	74.0	J	17.0	123	ug/m3
75-35-4	1,1-Dichloroethene	14.0	55.5	U	55.5	198	ug/m3
67-64-1	Acetone	470	1120		57.0	119	ug/m3
75-15-0	Carbon Disulfide	16.0	49.8	U	49.8	156	ug/m3
1634-04-4	Methyl tert-Butyl Ether	12.0	43.3	U	43.3	180	ug/m3
75-09-2	Methylene Chloride	19.0	66.0	U	66.0	174	ug/m3
156-60-5	trans-1,2-Dichloroethene	19.0	75.3	U	75.3	198	ug/m3
75-34-3	1,1-Dichloroethane	13.0	52.6	U	52.6	202	ug/m3
110-82-7	Cyclohexane	22.0	75.7	U	75.7	172	ug/m3
78-93-3	2-Butanone	12.0	35.4	U	35.4	147	ug/m3
56-23-5	Carbon Tetrachloride	1.10	6.92	U	6.92	18.9	ug/m3
156-59-2	cis-1,2-Dichloroethene	8.90	35.3	U	35.3	198	ug/m3
67-66-3	Chloroform	8.30	40.5	U	40.5	244	ug/m3
71-55-6	1,1,1-Trichloroethane	0.95	5.18	U	5.18	16.4	ug/m3
540-84-1	2,2,4-Trimethylpentane	10.0	46.7	U	46.7	234	ug/m3
71-43-2	Benzene	8.70	27.8	U	27.8	160	ug/m3
107-06-2	1,2-Dichloroethane	9.10	36.8	U	36.8	202	ug/m3
79-01-6	Trichloroethene	1.70	9.14	U	9.14	16.1	ug/m3
78-87-5	1,2-Dichloropropane	11.0	50.8	U	50.8	231	ug/m3
75-27-4	Bromodichloromethane	7.70	51.6	U	51.6	335	ug/m3
108-10-1	4-Methyl-2-Pentanone	9.30	38.1	U	38.1	205	ug/m3
108-88-3	Toluene	13.5	50.9	J	41.5	188	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:	IA-B2-3-03312025DL2DUP	SDG No.:	Q1726
Lab Sample ID:	Q1726-06DL2DUP	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
VL042393.D	100		04/18/25 15:47	VL041825

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	6.00	27.2	U	27.2	227	ug/m3
10061-01-5	cis-1,3-Dichloropropene	6.40	29.1	U	29.1	227	ug/m3
79-00-5	1,1,2-Trichloroethane	7.10	38.7	U	38.7	273	ug/m3
124-48-1	Dibromochloromethane	6.60	56.2	U	56.2	426	ug/m3
106-93-4	1,2-Dibromoethane	7.20	55.3	U	55.3	76.8	ug/m3
127-18-4	Tetrachloroethene	1.50	10.2	U	10.2	20.3	ug/m3
108-90-7	Chlorobenzene	7.60	35.0	U	35.0	230	ug/m3
100-41-4	Ethyl Benzene	12.0	52.1	U	52.1	217	ug/m3
179601-23-1	m/p-Xylene	21.0	91.2	U	91.2	434	ug/m3
95-47-6	o-Xylene	12.0	52.1	U	52.1	217	ug/m3
100-42-5	Styrene	11.0	46.8	U	46.8	213	ug/m3
75-25-2	Bromoform	5.70	58.9	U	58.9	517	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	1.10	7.55	U	7.55	20.6	ug/m3
95-49-8	2-Chlorotoluene	11.0	57.0	U	57.0	259	ug/m3
108-67-8	1,3,5-Trimethylbenzene	11.0	54.1	U	54.1	246	ug/m3
95-63-6	1,2,4-Trimethylbenzene	7.80	38.4	U	38.4	246	ug/m3
541-73-1	1,3-Dichlorobenzene	8.00	48.1	U	48.1	301	ug/m3
106-46-7	1,4-Dichlorobenzene	5.30	31.9	U	31.9	301	ug/m3
95-50-1	1,2-Dichlorobenzene	7.50	45.1	U	45.1	301	ug/m3
120-82-1	1,2,4-Trichlorobenzene	8.50	63.1	U	63.1	371	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	8.50	90.7	U	90.7	533	ug/m3
106-99-0	1,3-Butadiene	13.0	28.8	U	28.8	111	ug/m3
91-20-3	Naphthalene	7.50	39.3	U	39.3	52.4	ug/m3
622-96-8	4-Ethyltoluene	12.0	59.0	U	59.0	246	ug/m3
110-54-3	Hexane	11.0	38.8	U	38.8	176	ug/m3
107-05-1	Allyl Chloride	15.0	47.0	U	47.0	157	ug/m3
123-91-1	1,4-Dioxane	21.0	75.7	U	75.7	180	ug/m3
80-62-6	Methyl Methacrylate	8.60	35.2	U	35.2	205	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	124000		2.79			
540-36-3	1,4-Difluorobenzene	373000		3.965			
3114-55-4	Chlorobenzene-d5	319000		8.888			

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:	IA-B2-3-03312025DL2DUP	SDG No.:	Q1726
Lab Sample ID:	Q1726-06DL2DUP	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
VL042393.D	100		04/18/25 15:47	VL041825

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\VL041825\
Data File : VL042393.D
Acq On : 18 Apr 2025 15:47
Operator : SY/MD
Sample : Q1726-06DL2DUP 100X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025DL2DUP

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025

Quant Time: Apr 18 23:00:28 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

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.790	49	123948	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	373006	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.888	117	318921	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.380	95	266367	10.164	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 101.600%			
Target Compounds						Qvalue
13) Ethanol	1.722	45	3385	2.243	ppbv	# 24
15) Acetone	1.839	43	96169	4.740	ppbv	100
19) Isopropyl Alcohol	1.891	45	3389	0.301	ppbv	# 1
53) Toluene	6.940	91	6512m	0.135	ppbv	

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

Quantitation Report (QT Reviewed)

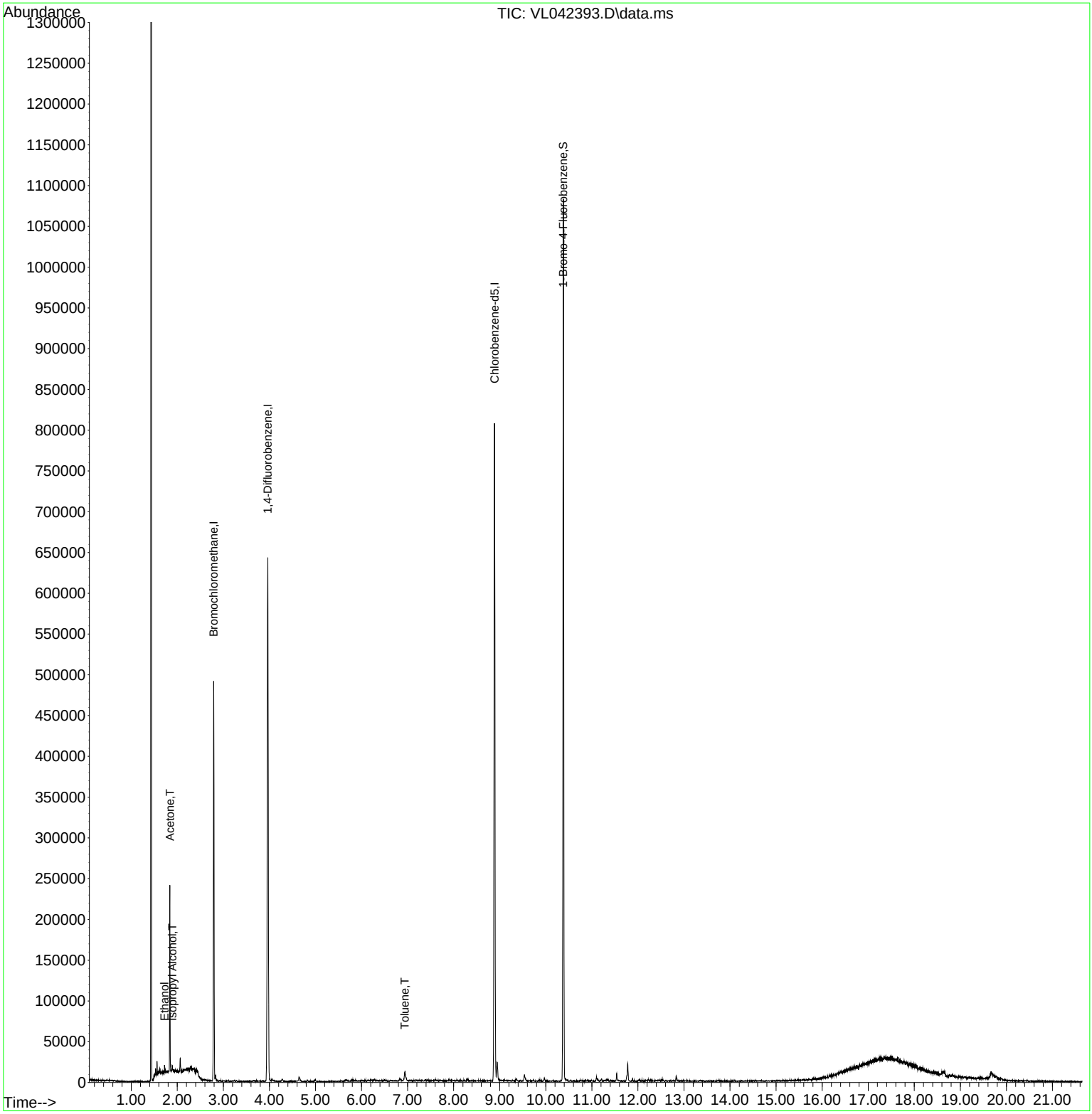
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041825\
Data File : VL042393.D
Acq On : 18 Apr 2025 15:47
Operator : SY/MD
Sample : Q1726-06DL2DUP 100X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

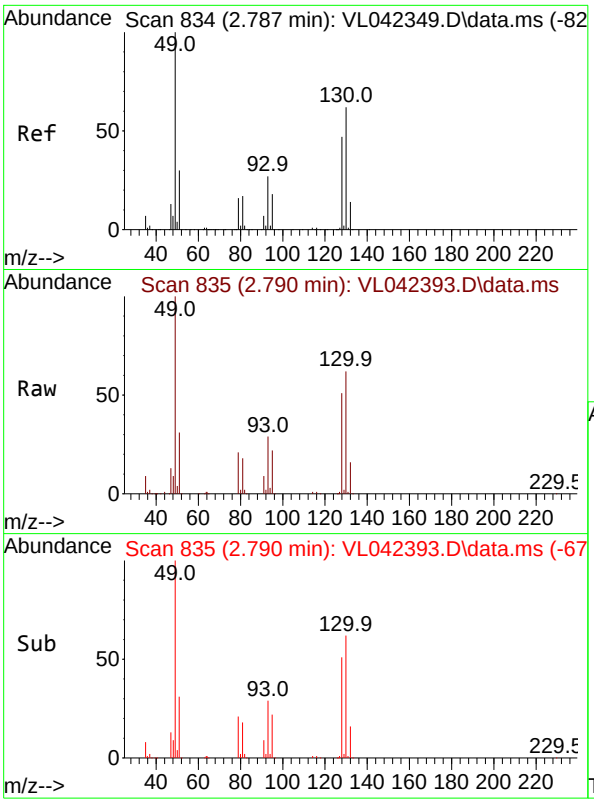
Quant Time: Apr 18 23:00:28 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025DL2DUP

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025

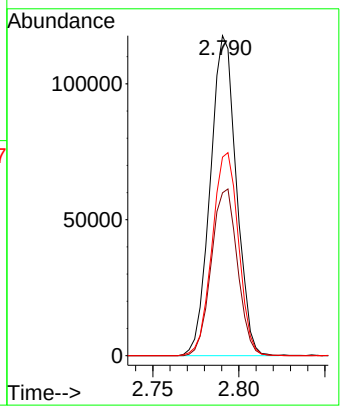




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042393.D
Acq: 18 Apr 2025 15:47

Tgt Ion: 49 Resp: 12394

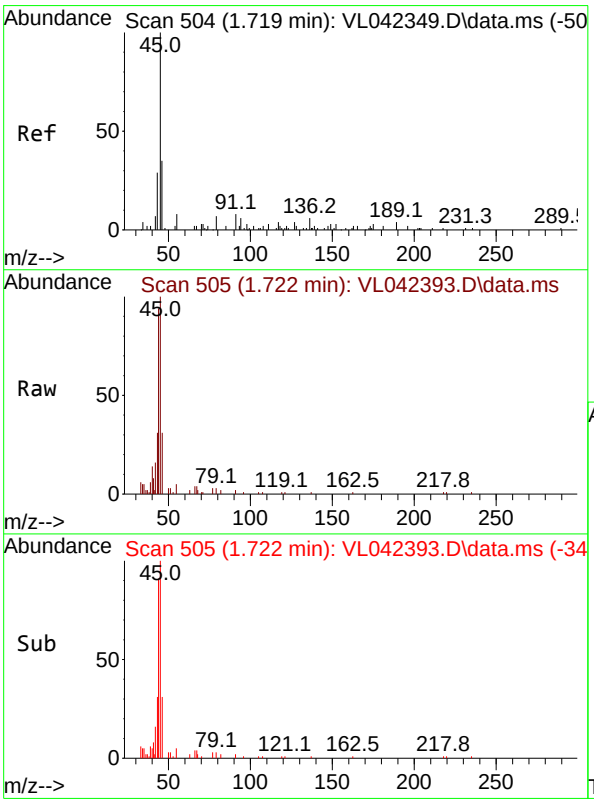
Ion	Ratio	Lower	Upper
49	100		
128	52.3	22.8	68.4
130	64.1	29.3	88.0



Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025DL2DUP

Manual Integrations
APPROVED

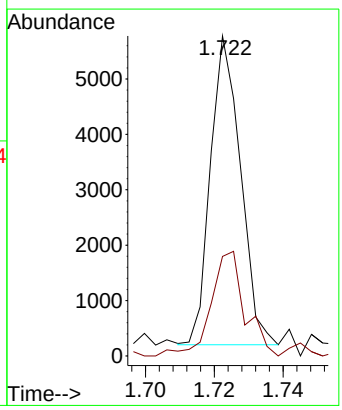
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025

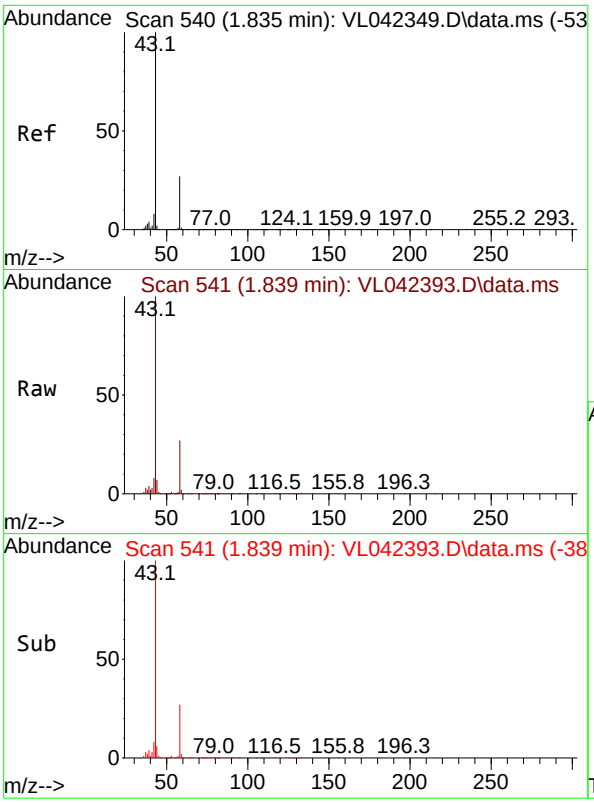


#13
Ethanol
Concen: 2.243 ppbv
RT: 1.722 min Scan# 505
Delta R.T. 0.003 min
Lab File: VL042393.D
Acq: 18 Apr 2025 15:47

Tgt Ion: 45 Resp: 3385

Ion	Ratio	Lower	Upper
45	100		
46	0.0	21.9	87.7#

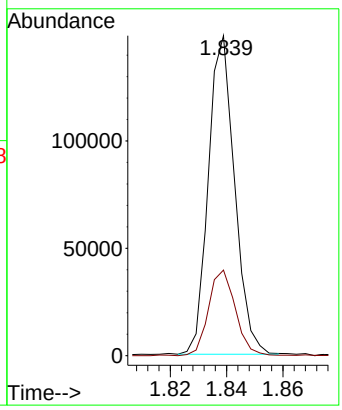




#15
Acetone
Concen: 4.740 ppbv
RT: 1.839 min Scan# 54
Delta R.T. 0.004 min
Lab File: VL042393.D
Acq: 18 Apr 2025 15:47

Tgt Ion: 43 Resp: 9616

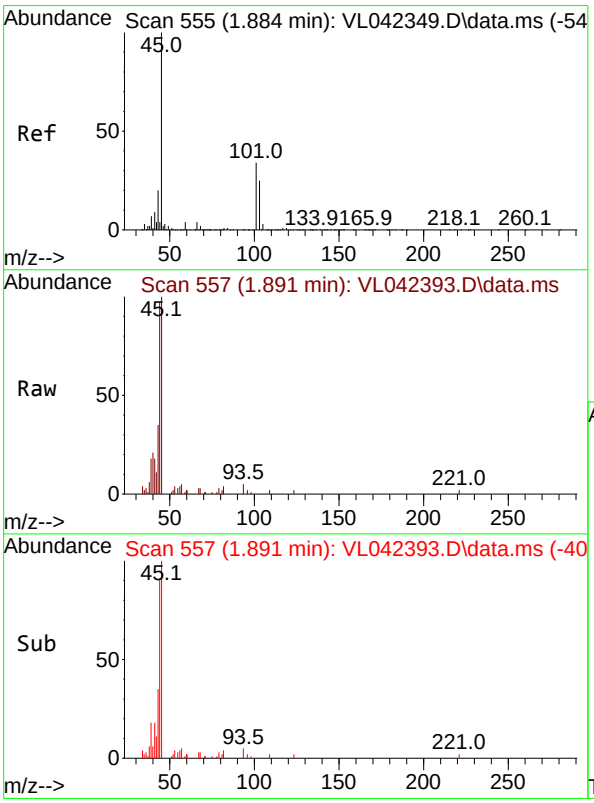
Ion	Ratio	Lower	Upper
43	100		
58	27.9	22.4	33.6



Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025DL2DUP

Manual Integrations
APPROVED

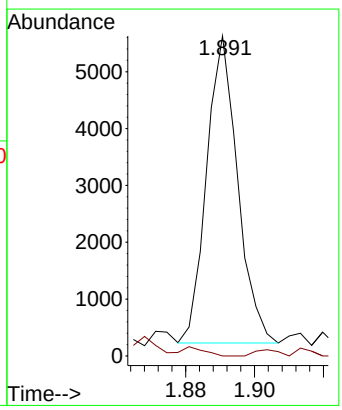
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025

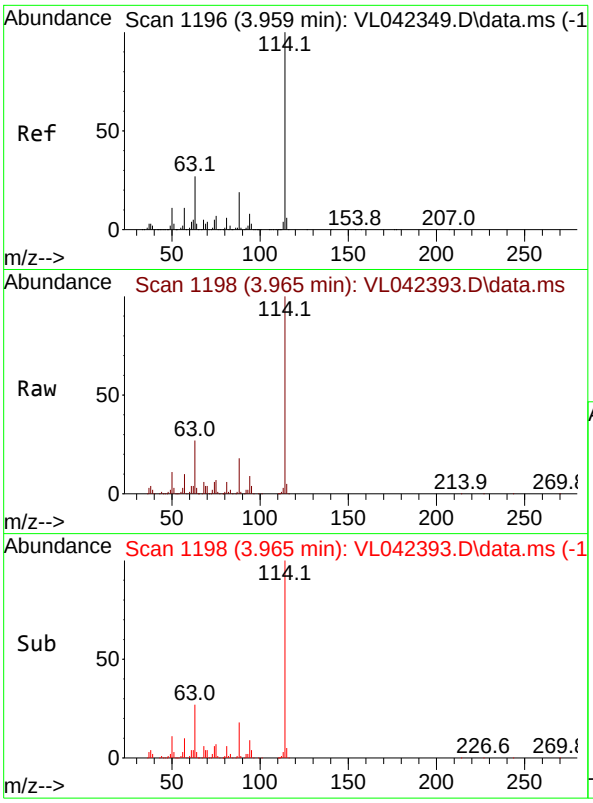


#19
Isopropyl Alcohol
Concen: 0.301 ppbv
RT: 1.891 min Scan# 557
Delta R.T. 0.007 min
Lab File: VL042393.D
Acq: 18 Apr 2025 15:47

Tgt Ion: 45 Resp: 3389

Ion	Ratio	Lower	Upper
45	100		
58	791.4	34.5	51.7#

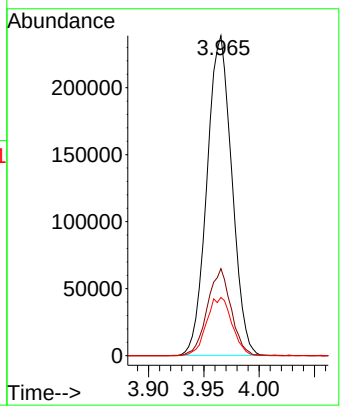




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.965 min Scan# 1
Delta R.T. 0.007 min
Lab File: VL042393.D
Acq: 18 Apr 2025 15:47

Tgt Ion:114 Resp: 37300

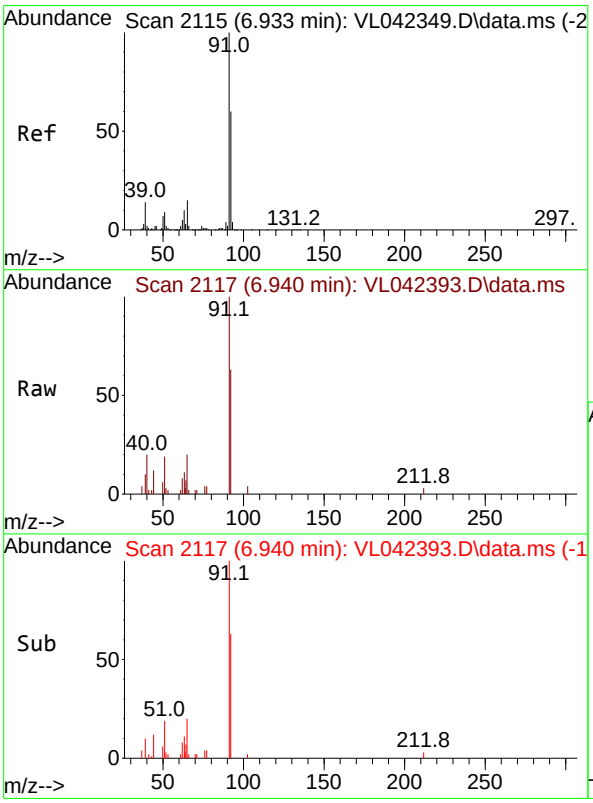
Ion	Ratio	Lower	Upper
114	100		
63	26.0	21.8	32.6
88	18.7	15.5	23.3



Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025DL2DUP

Manual Integrations
APPROVED

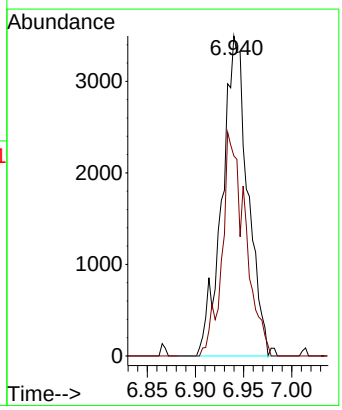
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025

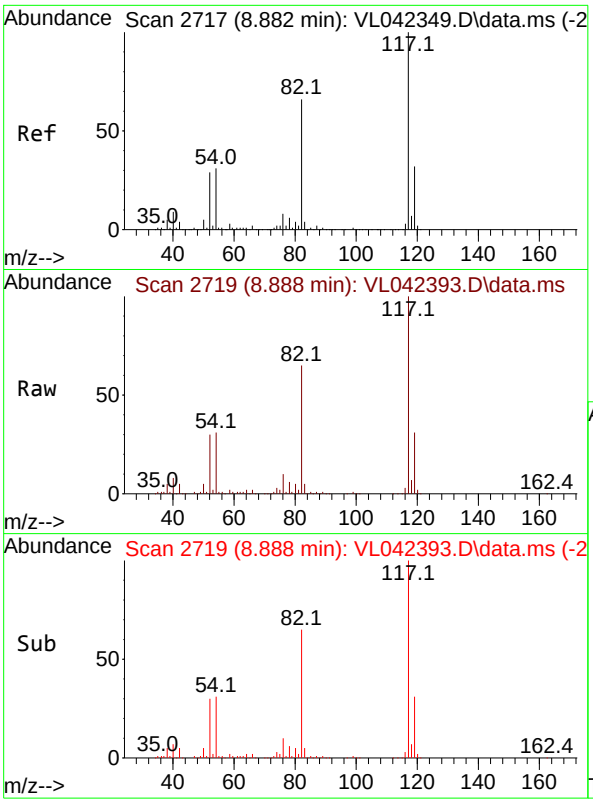


#53
Toluene
Concen: 0.135 ppbv m
RT: 6.940 min Scan# 2117
Delta R.T. 0.007 min
Lab File: VL042393.D
Acq: 18 Apr 2025 15:47

Tgt Ion: 91 Resp: 6512

Ion	Ratio	Lower	Upper
91	100		
92	63.2	48.2	72.4

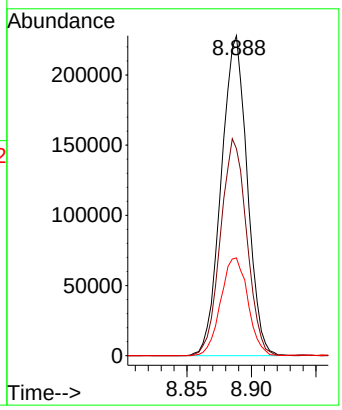




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.888 min Scan# 2
Delta R.T. 0.007 min
Lab File: VL042393.D
Acq: 18 Apr 2025 15:47

Tgt Ion:117 Resp: 31892

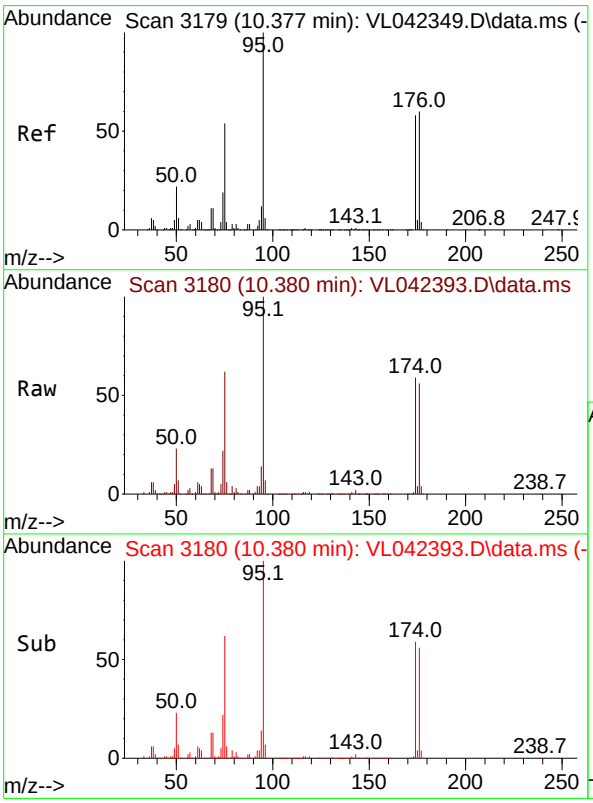
Ion	Ratio	Lower	Upper
117	100		
82	68.4	57.8	86.6
119	32.1	25.2	37.8



Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025DL2DUP

Manual Integrations
APPROVED

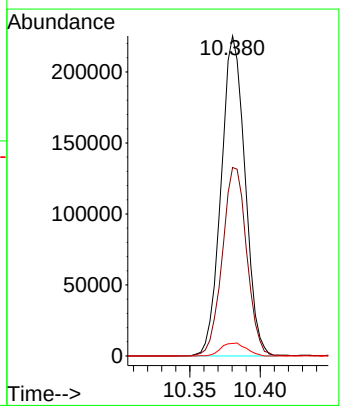
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025



#68
1-Bromo-4-Fluorobenzene
Concen: 10.164 ppbv
RT: 10.380 min Scan# 3180
Delta R.T. 0.004 min
Lab File: VL042393.D
Acq: 18 Apr 2025 15:47

Tgt Ion: 95 Resp: 266367

Ion	Ratio	Lower	Upper
95	100		
174	60.1	48.5	72.7
175	4.3	3.7	5.5



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

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

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

Manual Integration Report

Sequence:	vl041725	Instrument	MSVOA_I

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

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

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

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

Manual Integration Report

Sequence:	vl041725	Instrument	MSVOA_I

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
Q1726-01	VL042366.D	1,2-Dichloroethane	SAM	4/18/2025 4:19:35 PM	MMDadoda	4/18/2025 10:44:26 PM	Peak Integrated by Software
Q1726-01	VL042366.D	Carbon Tetrachloride	SAM	4/18/2025 4:19:35 PM	MMDadoda	4/18/2025 10:44:26 PM	Peak Integrated by Software
Q1726-01	VL042366.D	Chlorodifluoromethane	SAM	4/18/2025 4:19:35 PM	MMDadoda	4/18/2025 10:44:26 PM	Peak Integrated by Software
Q1726-01	VL042366.D	n-Butylbenzene	SAM	4/18/2025 4:19:35 PM	MMDadoda	4/18/2025 10:44:26 PM	Peak Integrated by Software
Q1726-01	VL042366.D	Naphthalene,2-methyl-	SAM	4/18/2025 4:19:35 PM	MMDadoda	4/18/2025 10:44:26 PM	Peak Integrated by Software
Q1726-01	VL042366.D	Propene	SAM	4/18/2025 4:19:35 PM	MMDadoda	4/18/2025 10:44:26 PM	Peak Integrated by Software
Q1726-01	VL042366.D	Tetrachloroethene	SAM	4/18/2025 4:19:35 PM	MMDadoda	4/18/2025 10:44:26 PM	Peak Integrated by Software
Q1726-02	VL042367.D	1,1,1-Trichloroethane	SAM	4/18/2025 4:20:08 PM	MMDadoda	4/18/2025 10:45:51 PM	Peak Integrated by Software
Q1726-02	VL042367.D	Carbon Tetrachloride	SAM	4/18/2025 4:20:08 PM	MMDadoda	4/18/2025 10:45:51 PM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	vl041725	Instrument	MSVOA_l

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q1726-02	VL042367.D	Chlorodifluoromethane	SAM	4/18/2025 4:20:08 PM	MMDadoda	4/18/2025 10:45:51 PM	Peak Integrated by Software
Q1726-02	VL042367.D	Chloroform	SAM	4/18/2025 4:20:08 PM	MMDadoda	4/18/2025 10:45:51 PM	Peak Integrated by Software
Q1726-02	VL042367.D	Cyclohexane	SAM	4/18/2025 4:20:08 PM	MMDadoda	4/18/2025 10:45:51 PM	Peak Integrated by Software
Q1726-02	VL042367.D	Propene	SAM	4/18/2025 4:20:08 PM	MMDadoda	4/18/2025 10:45:51 PM	Peak Integrated by Software
Q1726-02	VL042367.D	Tetrachloroethene	SAM	4/18/2025 4:20:08 PM	MMDadoda	4/18/2025 10:45:51 PM	Peak Integrated by Software
Q1726-03	VL042368.D	1,1,1-Trichloroethane	SAM	4/18/2025 4:21:50 PM	MMDadoda	4/18/2025 10:44:24 PM	Peak Integrated by Software
Q1726-03	VL042368.D	Carbon Tetrachloride	SAM	4/18/2025 4:21:50 PM	MMDadoda	4/18/2025 10:44:24 PM	Peak Integrated by Software
Q1726-03	VL042368.D	Chlorodifluoromethane	SAM	4/18/2025 4:21:50 PM	MMDadoda	4/18/2025 10:44:24 PM	Peak Integrated by Software
Q1726-03	VL042368.D	Chloroform	SAM	4/18/2025 4:21:50 PM	MMDadoda	4/18/2025 10:44:24 PM	Peak Integrated by Software
Q1726-03	VL042368.D	n-Butylbenzene	SAM	4/18/2025 4:21:50 PM	MMDadoda	4/18/2025 10:44:24 PM	Peak Integrated by Software
Q1726-03	VL042368.D	Naphthalene,2-methyl-	SAM	4/18/2025 4:21:50 PM	MMDadoda	4/18/2025 10:44:24 PM	Peak Integrated by Software
Q1726-03	VL042368.D	Propene	SAM	4/18/2025 4:21:50 PM	MMDadoda	4/18/2025 10:44:24 PM	Peak Integrated by Software
Q1726-03	VL042368.D	tert-Butyl alcohol	SAM	4/18/2025 4:21:50 PM	MMDadoda	4/18/2025 10:44:24 PM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	vl041725	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q1726-03	VL042368.D	Tetrachloroethene	SAM	4/18/2025 4:21:50 PM	MMDadoda	4/18/2025 10:44:24 PM	Peak Integrated by Software
Q1726-04	VL042369.D	1,1,1-Trichloroethane	SAM	4/18/2025 4:21:55 PM	MMDadoda	4/18/2025 10:44:18 PM	Peak Integrated by Software
Q1726-04	VL042369.D	Carbon Tetrachloride	SAM	4/18/2025 4:21:55 PM	MMDadoda	4/18/2025 10:44:18 PM	Peak Integrated by Software
Q1726-04	VL042369.D	Chlorodifluoromethane	SAM	4/18/2025 4:21:55 PM	MMDadoda	4/18/2025 10:44:18 PM	Peak Integrated by Software
Q1726-04	VL042369.D	Propene	SAM	4/18/2025 4:21:55 PM	MMDadoda	4/18/2025 10:44:18 PM	Peak Integrated by Software
Q1726-04	VL042369.D	tert-Butyl alcohol	SAM	4/18/2025 4:21:55 PM	MMDadoda	4/18/2025 10:44:18 PM	Peak Integrated by Software
Q1726-04	VL042369.D	Tetrachloroethene	SAM	4/18/2025 4:21:55 PM	MMDadoda	4/18/2025 10:44:18 PM	Peak Integrated by Software
Q1726-05	VL042370.D	1,1,1-Trichloroethane	SAM	4/18/2025 4:21:04 PM	MMDadoda	4/18/2025 10:44:08 PM	Peak Integrated by Software
Q1726-05	VL042370.D	Chlorodifluoromethane	SAM	4/18/2025 4:21:04 PM	MMDadoda	4/18/2025 10:44:08 PM	Peak Integrated by Software
Q1726-05	VL042370.D	Cyclohexane	SAM	4/18/2025 4:21:04 PM	MMDadoda	4/18/2025 10:44:08 PM	Peak Integrated by Software
Q1726-05	VL042370.D	Propene	SAM	4/18/2025 4:21:04 PM	MMDadoda	4/18/2025 10:44:08 PM	Peak Integrated by Software
Q1726-05	VL042370.D	tert-Butyl alcohol	SAM	4/18/2025 4:21:04 PM	MMDadoda	4/18/2025 10:44:08 PM	Peak Integrated by Software
Q1726-05	VL042370.D	Tetrachloroethene	SAM	4/18/2025 4:21:04 PM	MMDadoda	4/18/2025 10:44:08 PM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	vl041725	Instrument	MSVOA_l

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q1726-06	VL042371.D	Chlorodifluoromethane	SAM	4/18/2025 4:20:03 PM	MMDadoda	4/18/2025 10:44:05 PM	Peak Integrated by Software
Q1726-06	VL042371.D	n-Butylbenzene	SAM	4/18/2025 4:20:03 PM	MMDadoda	4/18/2025 10:44:05 PM	Peak Integrated by Software
Q1726-06	VL042371.D	Propene	SAM	4/18/2025 4:20:03 PM	MMDadoda	4/18/2025 10:44:05 PM	Peak Integrated by Software
Q1726-06	VL042371.D	tert-Butyl alcohol	SAM	4/18/2025 4:20:03 PM	MMDadoda	4/18/2025 10:44:05 PM	Peak Integrated by Software
Q1726-06	VL042371.D	Tetrachloroethene	SAM	4/18/2025 4:20:03 PM	MMDadoda	4/18/2025 10:44:05 PM	Peak Integrated by Software
Q1726-06	VL042371.D	Trichloroethene	SAM	4/18/2025 4:20:03 PM	MMDadoda	4/18/2025 10:44:05 PM	Peak Integrated by Software
Q1726-07	VL042372.D	4-Methyl-2-Pentanone	SAM	4/18/2025 4:20:49 PM	MMDadoda	4/18/2025 10:44:02 PM	Peak Integrated by Software
Q1726-07	VL042372.D	Carbon Tetrachloride	SAM	4/18/2025 4:20:49 PM	MMDadoda	4/18/2025 10:44:02 PM	Peak Integrated by Software
Q1726-07	VL042372.D	Chlorodifluoromethane	SAM	4/18/2025 4:20:49 PM	MMDadoda	4/18/2025 10:44:02 PM	Peak Integrated by Software
Q1726-07	VL042372.D	Chloroform	SAM	4/18/2025 4:20:49 PM	MMDadoda	4/18/2025 10:44:02 PM	Peak Integrated by Software
Q1726-07	VL042372.D	n-Butylbenzene	SAM	4/18/2025 4:20:49 PM	MMDadoda	4/18/2025 10:44:02 PM	Peak Integrated by Software
Q1726-07	VL042372.D	Propene	SAM	4/18/2025 4:20:49 PM	MMDadoda	4/18/2025 10:44:02 PM	Peak Integrated by Software
Q1726-07	VL042372.D	tert-Butyl alcohol	SAM	4/18/2025 4:20:49 PM	MMDadoda	4/18/2025 10:44:02 PM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	vl041725	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q1726-07	VL042372.D	Tetrachloroethene	SAM	4/18/2025 4:20:49 PM	MMDadoda	4/18/2025 10:44:02 PM	Peak Integrated by Software
Q1726-07DL	VL042373.D	2,2,4-Trimethylpentane	SAM	4/18/2025 4:22:12 PM	MMDadoda	4/18/2025 10:43:58 PM	Peak Integrated by Software
Q1726-07DL	VL042373.D	Heptane	SAM	4/18/2025 4:22:12 PM	MMDadoda	4/18/2025 10:43:58 PM	Peak Integrated by Software
Q1726-07DL	VL042373.D	m/p-Xylene	SAM	4/18/2025 4:22:12 PM	MMDadoda	4/18/2025 10:43:58 PM	Peak Integrated by Software
Q1726-07DL	VL042373.D	Propene	SAM	4/18/2025 4:22:12 PM	MMDadoda	4/18/2025 10:43:58 PM	Peak Integrated by Software
Q1726-01DL	VL042376.D	Benzene	SAM	4/18/2025 4:19:57 PM	MMDadoda	4/18/2025 10:43:47 PM	Peak Integrated by Software
Q1726-01DL	VL042376.D	Cyclohexane	SAM	4/18/2025 4:19:57 PM	MMDadoda	4/18/2025 10:43:47 PM	Peak Integrated by Software
Q1726-01DL	VL042376.D	Propene	SAM	4/18/2025 4:19:57 PM	MMDadoda	4/18/2025 10:43:47 PM	Peak Integrated by Software
Q1726-02DL	VL042377.D	Benzene	SAM	4/18/2025 4:21:15 PM	MMDadoda	4/18/2025 10:43:43 PM	Peak Integrated by Software
Q1726-02DL	VL042377.D	Cyclohexane	SAM	4/18/2025 4:21:15 PM	MMDadoda	4/18/2025 10:43:43 PM	Peak Integrated by Software
Q1726-02DL	VL042377.D	Heptane	SAM	4/18/2025 4:21:15 PM	MMDadoda	4/18/2025 10:43:43 PM	Peak Integrated by Software
Q1726-02DL	VL042377.D	m/p-Xylene	SAM	4/18/2025 4:21:15 PM	MMDadoda	4/18/2025 10:43:43 PM	Peak Integrated by Software
Q1726-02DL	VL042377.D	n-propylbenzene	SAM	4/18/2025 4:21:15 PM	MMDadoda	4/18/2025 10:43:43 PM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	vl041725	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q1726-02DL	VL042377.D	Propene	SAM	4/18/2025 4:21:15 PM	MMDadoda	4/18/2025 10:43:43 PM	Peak Integrated by Software
Q1726-03DL	VL042378.D	1,3,5-Trimethylbenzene	SAM	4/18/2025 4:21:23 PM	MMDadoda	4/18/2025 10:43:37 PM	Peak Integrated by Software
Q1726-03DL	VL042378.D	2,2,4-Trimethylpentane	SAM	4/18/2025 4:21:23 PM	MMDadoda	4/18/2025 10:43:37 PM	Peak Integrated by Software
Q1726-03DL	VL042378.D	Heptane	SAM	4/18/2025 4:21:23 PM	MMDadoda	4/18/2025 10:43:37 PM	Peak Integrated by Software
Q1726-03DL	VL042378.D	m/p-Xylene	SAM	4/18/2025 4:21:23 PM	MMDadoda	4/18/2025 10:43:37 PM	Peak Integrated by Software
Q1726-03DL	VL042378.D	Propene	SAM	4/18/2025 4:21:23 PM	MMDadoda	4/18/2025 10:43:37 PM	Peak Integrated by Software
Q1726-04DL	VL042379.D	2,2,4-Trimethylpentane	SAM	4/18/2025 4:19:52 PM	MMDadoda	4/18/2025 10:43:34 PM	Peak Integrated by Software
Q1726-04DL	VL042379.D	Benzene	SAM	4/18/2025 4:19:52 PM	MMDadoda	4/18/2025 10:43:34 PM	Peak Integrated by Software
Q1726-04DL	VL042379.D	Heptane	SAM	4/18/2025 4:19:52 PM	MMDadoda	4/18/2025 10:43:34 PM	Peak Integrated by Software
Q1726-04DL	VL042379.D	n-propylbenzene	SAM	4/18/2025 4:19:52 PM	MMDadoda	4/18/2025 10:43:34 PM	Peak Integrated by Software
Q1726-05DL	VL042380.D	Heptane	SAM	4/18/2025 4:19:46 PM	MMDadoda	4/18/2025 10:43:30 PM	Peak Integrated by Software
Q1726-05DL	VL042380.D	Propene	SAM	4/18/2025 4:19:46 PM	MMDadoda	4/18/2025 10:43:30 PM	Peak Integrated by Software
Q1726-06DL	VL042381.D	2-Butanone	SAM	4/18/2025 4:19:42 PM	MMDadoda	4/18/2025 10:45:53 PM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	vl041725	Instrument	MSVOA_l

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q1726-06DL	VL042381.D	Heptane	SAM	4/18/2025 4:19:42 PM	MMDadoda	4/18/2025 10:45:53 PM	Peak Integrated by Software
Q1726-06DL	VL042381.D	Hexane	SAM	4/18/2025 4:19:42 PM	MMDadoda	4/18/2025 10:45:53 PM	Peak Integrated by Software
Q1726-06DL	VL042381.D	m/p-Xylene	SAM	4/18/2025 4:19:42 PM	MMDadoda	4/18/2025 10:45:53 PM	Peak Integrated by Software
Q1726-06DL	VL042381.D	Propene	SAM	4/18/2025 4:19:42 PM	MMDadoda	4/18/2025 10:45:53 PM	Peak Integrated by Software
Q1726-06DL	VL042381.D	Toluene	SAM	4/18/2025 4:19:42 PM	MMDadoda	4/18/2025 10:45:53 PM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	vl041825	Instrument	MSVOA_l

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC010	VL042383.D	m/p-Xylene	SAM	4/21/2025 7:55:57 AM	MMDadoda	4/21/2025 3:26:35 PM	Peak Integrated by Software
VL0418ABS01	VL042385.D	m/p-Xylene	SAM	4/21/2025 7:56:01 AM	MMDadoda	4/21/2025 3:26:35 PM	Peak Integrated by Software
Q1726-07DL2	VL042386.D	m/p-Xylene	SAM	4/21/2025 7:56:07 AM	MMDadoda	4/21/2025 3:26:35 PM	Peak Integrated by Software
Q1726-07DL2	VL042386.D	Toluene	SAM	4/21/2025 7:56:07 AM	MMDadoda	4/21/2025 3:26:35 PM	Peak Integrated by Software
Q1726-01DL2	VL042387.D	1,3,5-Trimethylbenzene	SAM	4/21/2025 7:56:30 AM	MMDadoda	4/21/2025 3:26:37 PM	Peak Integrated by Software
Q1726-01DL2	VL042387.D	Ethyl Benzene	SAM	4/21/2025 7:56:30 AM	MMDadoda	4/21/2025 3:26:37 PM	Peak Integrated by Software
Q1726-01DL2	VL042387.D	Heptane	SAM	4/21/2025 7:56:30 AM	MMDadoda	4/21/2025 3:26:37 PM	Peak Integrated by Software
Q1726-02DL2	VL042388.D	2,2,4-Trimethylpentane	SAM	4/21/2025 7:56:12 AM	MMDadoda	4/21/2025 3:26:38 PM	Peak Integrated by Software
Q1726-02DL2	VL042388.D	Ethyl Benzene	SAM	4/21/2025 7:56:12 AM	MMDadoda	4/21/2025 3:26:38 PM	Peak Integrated by Software
Q1726-02DL2	VL042388.D	Heptane	SAM	4/21/2025 7:56:12 AM	MMDadoda	4/21/2025 3:26:38 PM	Peak Integrated by Software
Q1726-02DL2	VL042388.D	o-Xylene	SAM	4/21/2025 7:56:12 AM	MMDadoda	4/21/2025 3:26:38 PM	Peak Integrated by Software
Q1726-04DL2	VL042389.D	2,2,4-Trimethylpentane	SAM	4/21/2025 7:56:35 AM	MMDadoda	4/21/2025 3:26:40 PM	Peak Integrated by Software
Q1726-04DL2	VL042389.D	Ethyl Benzene	SAM	4/21/2025 7:56:35 AM	MMDadoda	4/21/2025 3:26:40 PM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	vl041825	Instrument	MSVOA_l

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q1726-04DL2	VL042389.D	Heptane	SAM	4/21/2025 7:56:35 AM	MMDadoda	4/21/2025 3:26:40 PM	Peak Integrated by Software
Q1726-03DL2	VL042390.D	Toluene	SAM	4/21/2025 7:56:40 AM	MMDadoda	4/21/2025 3:26:42 PM	Peak Integrated by Software
Q1726-05DL2	VL042391.D	m/p-Xylene	SAM	4/21/2025 7:56:45 AM	MMDadoda	4/21/2025 3:26:44 PM	Peak Integrated by Software
Q1726-05DL2	VL042391.D	Toluene	SAM	4/21/2025 7:56:45 AM	MMDadoda	4/21/2025 3:26:44 PM	Peak Integrated by Software
Q1726-06DL2	VL042392.D	Toluene	SAM	4/21/2025 7:56:17 AM	MMDadoda	4/21/2025 3:26:46 PM	Peak Integrated by Software
Q1726-06DL2D UP	VL042393.D	Toluene	SAM	4/21/2025 7:56:21 AM	MMDadoda	4/21/2025 3:26:48 PM	Peak Integrated by Software

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 # 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

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 # 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

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 # VL041825

Review By	Semsettin Yesilyurt	Review On	4/21/2025 8:00:40 AM				
Supervise By	Mahesh Dadoda	Supervise On	4/21/2025 3:26:51 PM				
SubDirectory	VL041825	HP Acquire Method	TO15AIR.M		HP Processing Method	VL041725AIR.M	

STD. NAME	STD REF.#
Tune/Reschk	AP2602
Initial Calibration Stds	AP2598,AP2599,AP2600
CCC	AP2598
Internal Standard/PEM	AP2602
ICV/I.BLK	AP2601
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VL042382.D	18 Apr 2025 07:51	SY/MD	Ok
2	VSTDCCC010	VL042383.D	18 Apr 2025 10:23	SY/MD	Ok,M
3	VL0418ABL01	VL042384.D	18 Apr 2025 10:54	SY/MD	Ok
4	VL0418ABS01	VL042385.D	18 Apr 2025 11:38	SY/MD	Ok,M
5	Q1726-07DL2	VL042386.D	18 Apr 2025 12:09	SY/MD	Ok,M
6	Q1726-01DL2	VL042387.D	18 Apr 2025 12:41	SY/MD	Ok,M
7	Q1726-02DL2	VL042388.D	18 Apr 2025 13:12	SY/MD	Ok,M
8	Q1726-04DL2	VL042389.D	18 Apr 2025 13:43	SY/MD	Ok,M
9	Q1726-03DL2	VL042390.D	18 Apr 2025 14:14	SY/MD	Ok,M
10	Q1726-05DL2	VL042391.D	18 Apr 2025 14:45	SY/MD	Ok,M
11	Q1726-06DL2	VL042392.D	18 Apr 2025 15:16	SY/MD	Ok,M
12	Q1726-06DL2DUP	VL042393.D	18 Apr 2025 15:47	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 # 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

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 # 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 100X	SY/MD	Dilution
34	Q1726-06DL	IA-B2-3-03312025DL	VL042381.D	18 Apr 2025 04:05	Need 100X	SY/MD	Dilution

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 # VL041825

Review By	Semsettin Yesilyurt	Review On	4/21/2025 8:00:40 AM		
Supervise By	Mahesh Dadoda	Supervise On	4/21/2025 3:26:51 PM		
SubDirectory	VL041825	HP Acquire Method	TO15AIR.M	HP Processing Method	VL041725AIR.M

STD. NAME	STD REF.#
Tune/Reschk	AP2602
Initial Calibration Stds	AP2598,AP2599,AP2600
CCC	AP2598
Internal Standard/PEM	AP2602
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	VL042382.D	18 Apr 2025 07:51		SY/MD	Ok
2	VSTDCCC010	VSTDCCC010	VL042383.D	18 Apr 2025 10:23		SY/MD	Ok,M
3	VL0418ABL01	VL0418ABL01	VL042384.D	18 Apr 2025 10:54		SY/MD	Ok
4	VL0418ABS01	VL0418ABS01	VL042385.D	18 Apr 2025 11:38		SY/MD	Ok,M
5	Q1726-07DL2	IA-B2-4-03312025DL2	VL042386.D	18 Apr 2025 12:09		SY/MD	Ok,M
6	Q1726-01DL2	IA-DUP-3-03312025DL	VL042387.D	18 Apr 2025 12:41		SY/MD	Ok,M
7	Q1726-02DL2	IA-B2-6-03312025DL2	VL042388.D	18 Apr 2025 13:12		SY/MD	Ok,M
8	Q1726-04DL2	IA-B2-5-03312025DL2	VL042389.D	18 Apr 2025 13:43		SY/MD	Ok,M
9	Q1726-03DL2	IA-B2-2-03312025DL2	VL042390.D	18 Apr 2025 14:14		SY/MD	Ok,M
10	Q1726-05DL2	IA-B2-1-03312025DL2	VL042391.D	18 Apr 2025 14:45		SY/MD	Ok,M
11	Q1726-06DL2	IA-B2-3-03312025DL2	VL042392.D	18 Apr 2025 15:16		SY/MD	Ok,M
12	Q1726-06DL2DUP	IA-B2-3-03312025DL2D	VL042393.D	18 Apr 2025 15:47		SY/MD	Ok,M

M : Manual Integration

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

Prep Standard - Chemical Standard Summary

Order ID : Q1726

Test : TO-15

Prepbatch ID :

Sequence ID/Qc Batch ID: vl041725,VL041825,

Standard ID :
AP2590,AP2598,AP2599,AP2600,AP2601,AP2602,

Chemical ID :
A1117,A1135,A1136,A1137,

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

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

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

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

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

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
47	Internal Standard/Surrogate Mix-80 ppbv	AP2602	04/18/2025	05/18/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 04/22/2025

FROM 2.40000psi of A1135 + 27.60000psi of A1117 = Final Quantity: 30.000 psi

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

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	
Trichloroethylene	500 ppb	474 ppb +/- 50 ppb	
Trichlorofluoromethane	500 ppb	494 ppb +/- 50 ppb	
1,1,2-Trichlorotrifluoroethane	500 ppb	481 ppb +/- 50 ppb	
1,2,4-Trimethylbenzene	500 ppb	480 ppb +/- 50 ppb	
1.3,5-Trimethylbenzene	500 ppb	484 ppb +/- 50 ppb	
2,2,4- Trimethylpentane	500 ppb	475 ppb +/- 50 ppb	
Vinyl acetate	500 ppb	485 ppb +/- 50 ppb	
Vinyl bromide	500 ppb	491 ppb +/- 50 ppb	
Vinyl chloride	500 ppb	493 ppb +/- 50 ppb	
m-Xylene	500 ppb	479 ppb +/- 50 ppb	
o-Xylene	500 ppb	466 ppb +/- 50 ppb	
p-Xylene	500 ppb	473 ppb +/- 50 ppb	
2-Methyl Naphthalene	500 ppb	497 ppb +/- 50 ppb	
R-22	500 ppb	589 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.

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Process Report

Order ID : Q1726

Date	Bottle ID	Lab Sample Number	InComing Vacuum	Canister ID	Can Size	Reg ID	Reg Size	Batch Code	Certification ID
04/08/2025	B2502051	Q1726-04	-1.8	10054	6 L	10785		C2503003	**VL042145.D** Seq :VL031425 TUNE : VL042140.D ICAL : VL042046.D CCAL : VL042141.D MB : VL042142.D
04/07/2025	B2503044	Q1726-06	-6.7	10590	6 L	10577		C2503007	**VL042182.D** Seq :vl032725 TUNE : VL042171.D ICAL : VL042177.D CCAL : VL042172.D MB : VL042180.D
04/07/2025	B2503044	Q1726-07	-5.5	10448	6 L	10567		C2503007	**VL042182.D** Seq :vl032725 TUNE : VL042171.D ICAL : VL042177.D CCAL : VL042172.D MB : VL042180.D
04/07/2025	B2503044	Q1726-03	-7.1	10410	6 L	10506		C2503007	**VL042182.D** Seq :vl032725 TUNE : VL042171.D ICAL : VL042177.D CCAL : VL042172.D MB : VL042180.D
04/07/2025	B2503044	Q1726-05	-5.1	10295	6 L	10537		C2503007	**VL042182.D** Seq :vl032725 TUNE : VL042171.D ICAL : VL042177.D CCAL : VL042172.D MB : VL042180.D
04/07/2025	B2502051	Q1726-01	-1.8	10597	6 L	10771		C2503001	**VL042143.D** Seq :VL031425 TUNE : VL042140.D ICAL : VL042046.D CCAL : VL042141.D MB : VL042142.D

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Process Report

Order ID : Q1726

Date	Bottle ID	Lab Sample Number	InComing Vacuum	Canister ID	Can Size	Reg ID	Reg Size	Batch Code	Certification ID
04/07/2025	B2502051	Q1726-02	-6.7	10280	6 L	10508		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 : 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

Canister Cleaning

284 Sheffield Street, Mountainside, New Jersey 07092 Phone : 908 789 8900 Fax : 908 789 8922

Canister Batch : C2503003

Type of Canister : 6 L

Cleaning Date : 03/13/2025

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
10153	-30	03/14/2025	03/14/2025	-30	03/17/2025	Q1725-01	10266	VL042145.D
10321	-30	03/14/2025	03/14/2025	-30	03/17/2025	Q1725-02	10266	VL042145.D
10329	-30	03/14/2025	03/14/2025	-30	03/17/2025	Q1718-02	10266	VL042145.D
10266	-30	03/14/2025	03/14/2025	-30	03/17/2025	Q1665-15	10266	VL042145.D
10054	-30	03/14/2025	03/14/2025	-30	03/17/2025	Q1726-04	10266	VL042145.D
10303	-30	03/14/2025	03/14/2025	-30	03/17/2025	Q1725-07	10266	VL042145.D
10296	-30	03/14/2025	03/14/2025	-30	03/17/2025	Q1725-03	10266	VL042145.D
10279	-30	03/14/2025	03/14/2025	-30	03/17/2025	Q1725-05	10266	VL042145.D

Canister Cleaning

284 Sheffield Street, Mountainside, New Jersey 07092 Phone : 908 789 8900 Fax : 908 789 8922

Canister Batch : C2503007

Type of Canister : 6 L

Cleaning Date : 03/26/2025

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
10609	-30	03/27/2025	03/27/2025	-30	03/28/2025	Q1718-03	10448	VL042182.D
10410	-30	03/27/2025	03/27/2025	-30	03/28/2025	Q1726-03	10448	VL042182.D
10448	-30	03/27/2025	03/27/2025	-30	03/28/2025	Q1726-07	10448	VL042182.D
10295	-30	03/27/2025	03/27/2025	-30	03/28/2025	Q1726-05	10448	VL042182.D
10590	-30	03/27/2025	03/27/2025	-30	03/28/2025	Q1726-06	10448	VL042182.D
10605	-30	03/27/2025	03/27/2025	-30	03/28/2025	Q1725-04	10448	VL042182.D

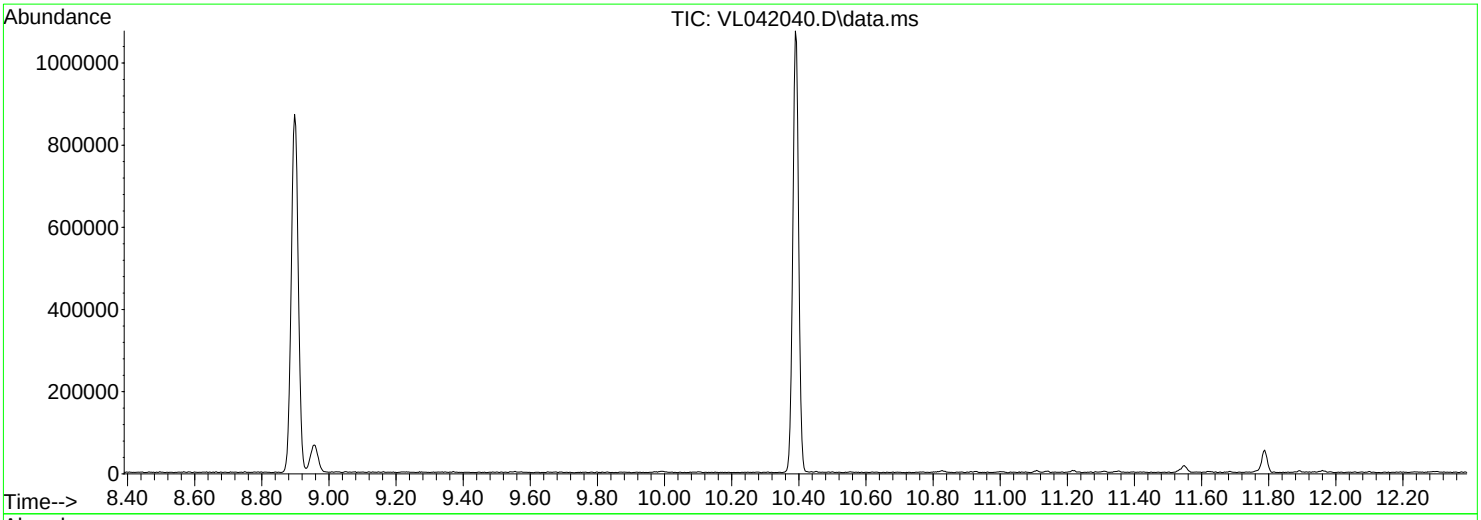
BFB

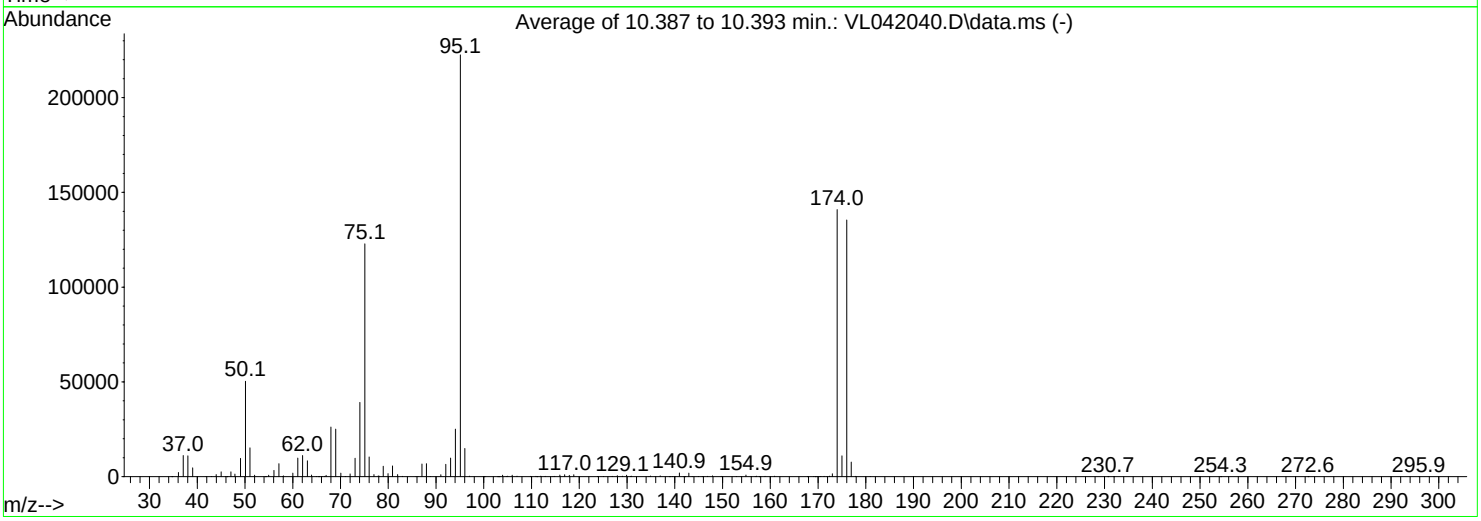
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
Data File : VL042040.D
Acq On : 25 Feb 2025 07:56
Operator : SY/MD
Sample : BFB
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

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

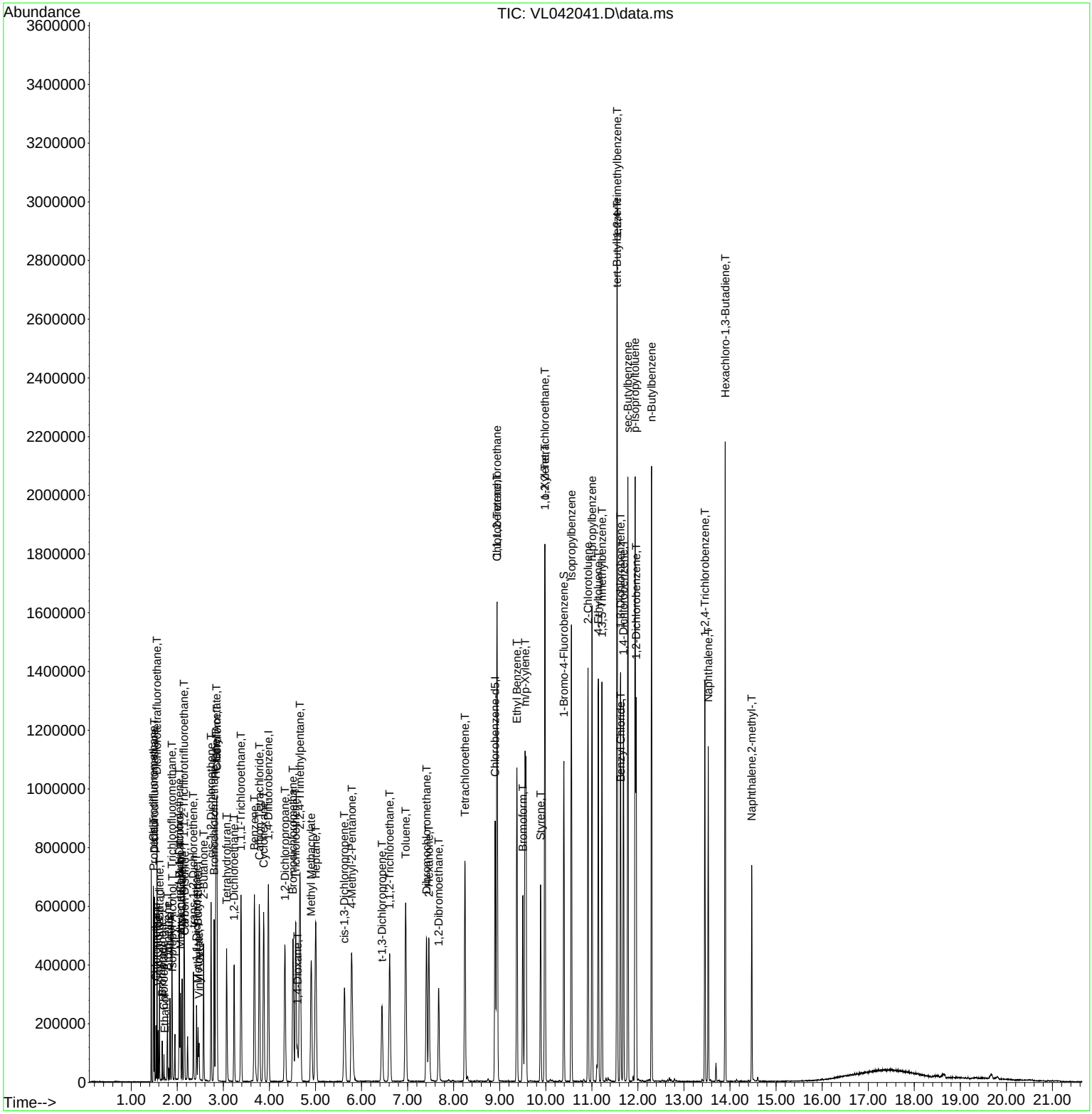
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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

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

Quantitation Report (QT Reviewed)

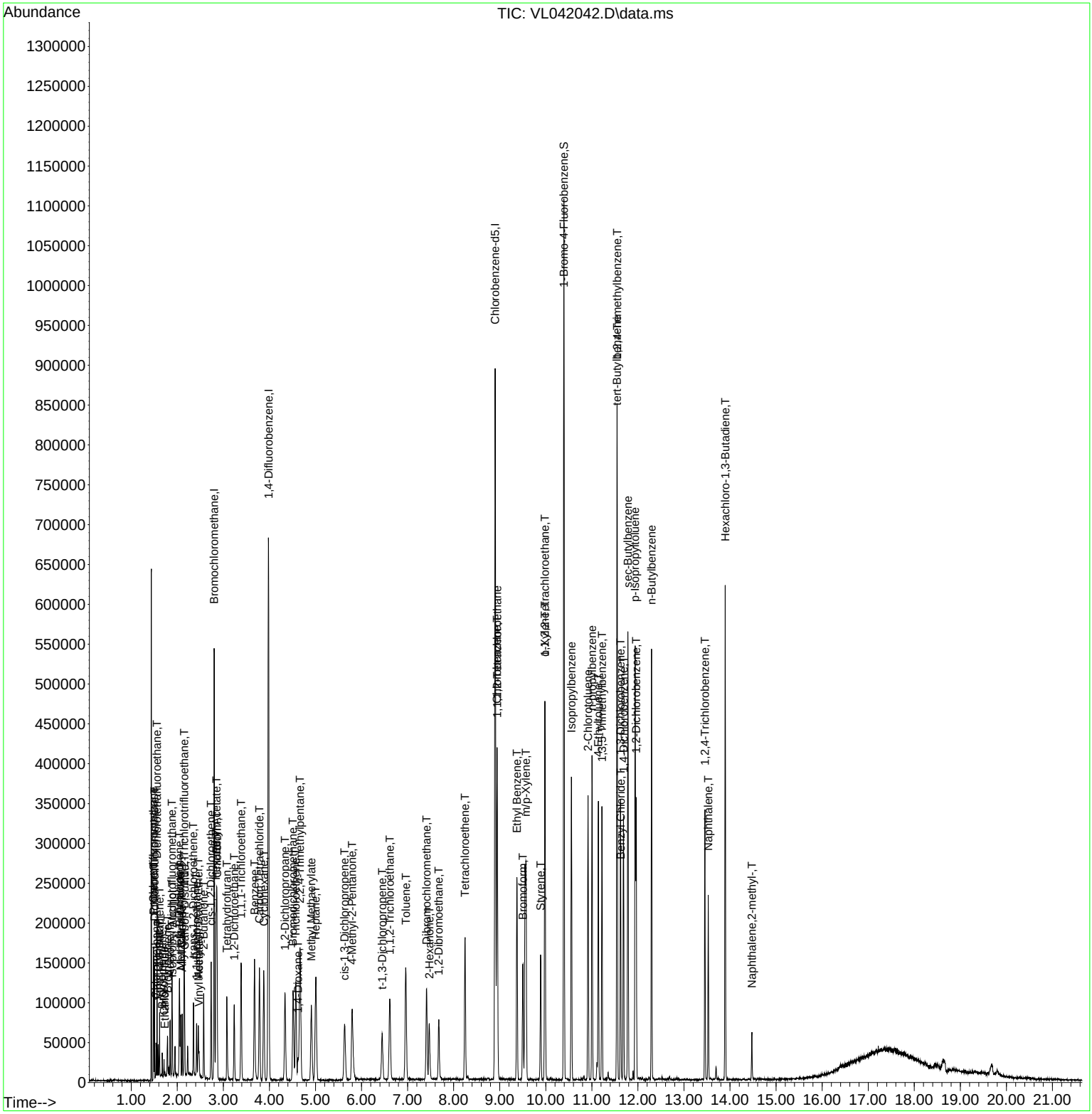
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
Data File : VL042042.D
Acq On : 25 Feb 2025 09:29
Operator : SY/MD
Sample : VSTDICC002
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

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
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

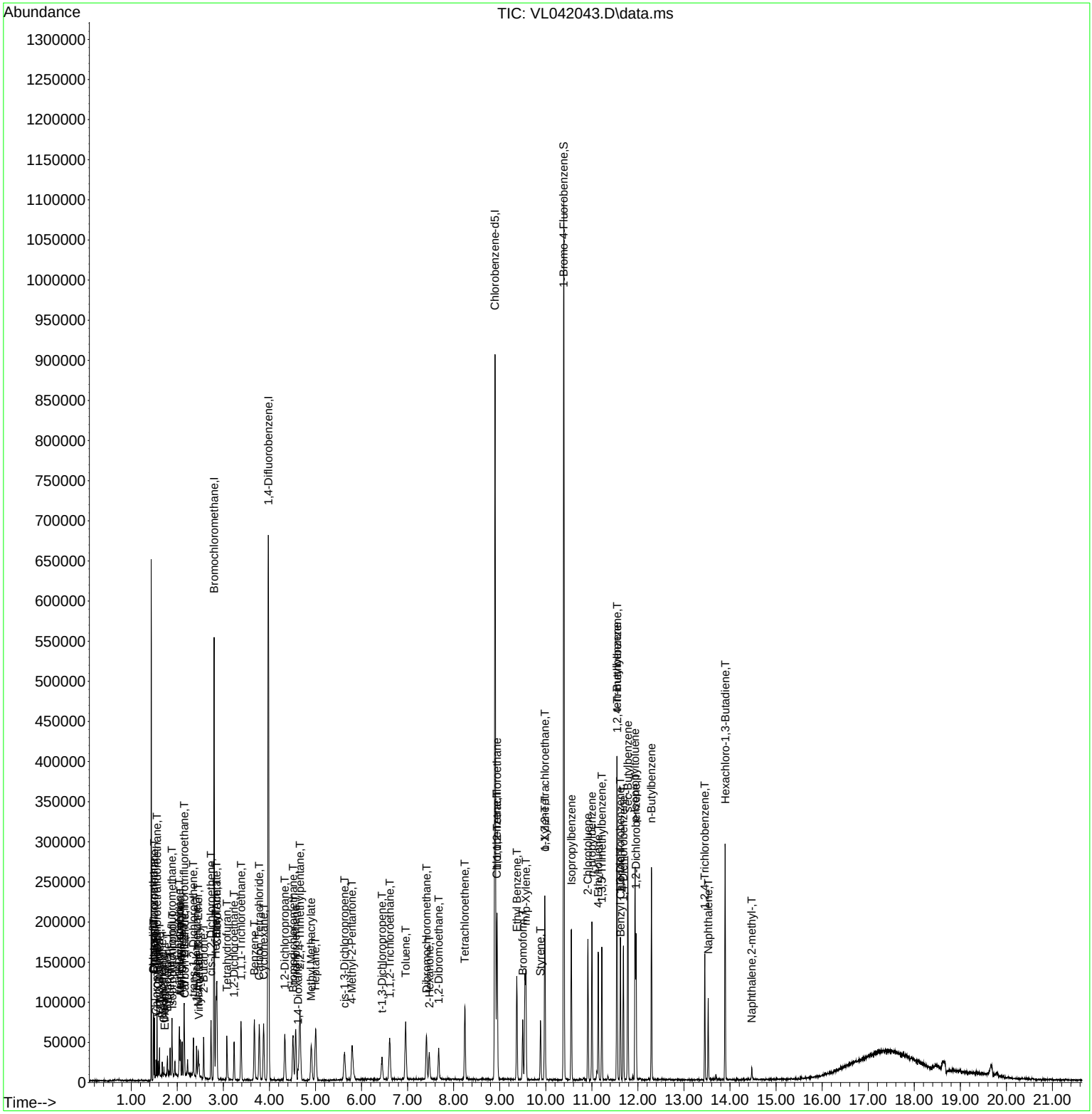
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
Data File : VL042043.D
Acq On : 25 Feb 2025 10:00
Operator : SY/MD
Sample : VSTDICC001
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

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)

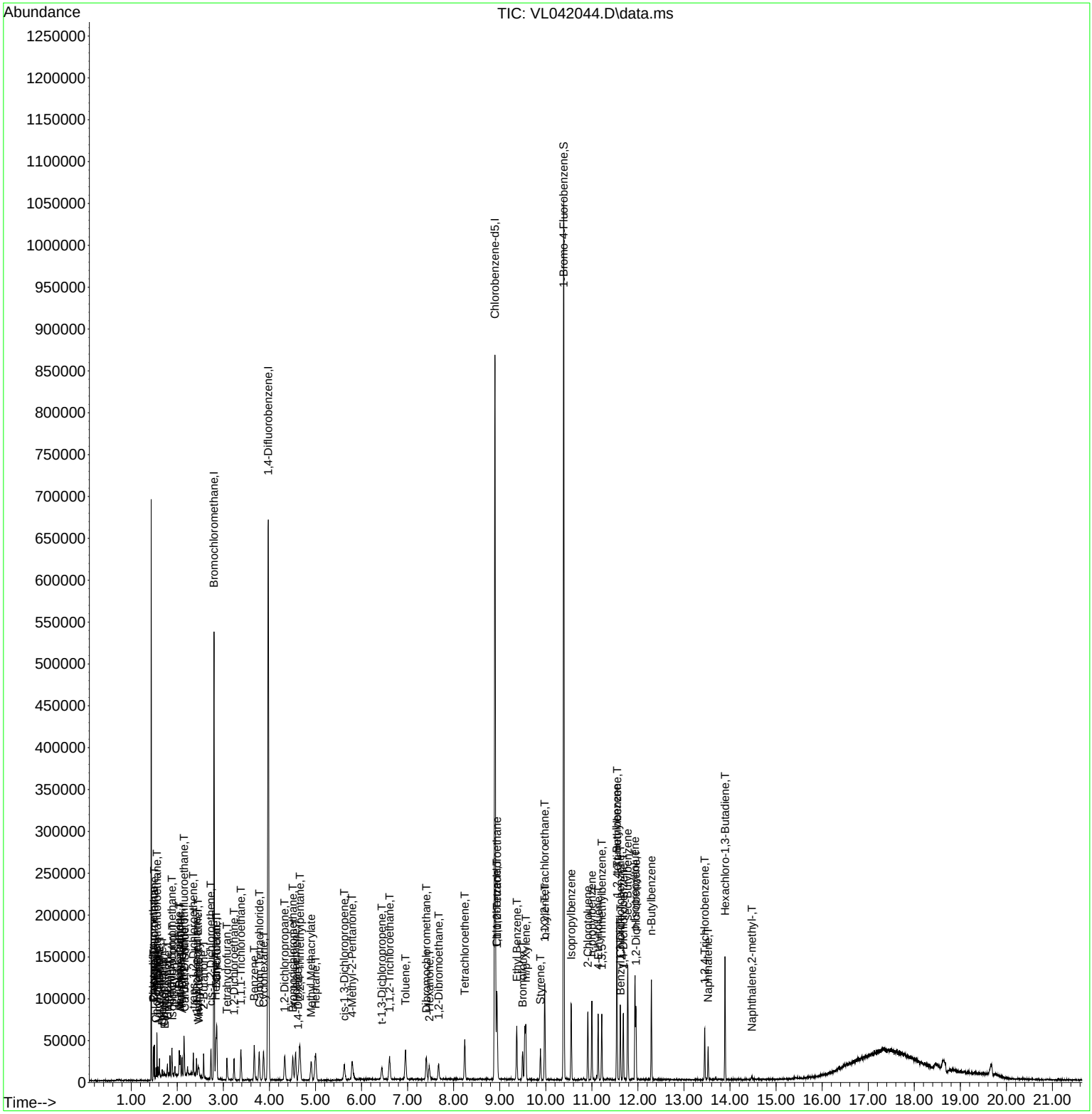
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
Data File : VL042044.D
Acq On : 25 Feb 2025 10:31
Operator : SY/MD
Sample : VSTDICC0.5
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

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

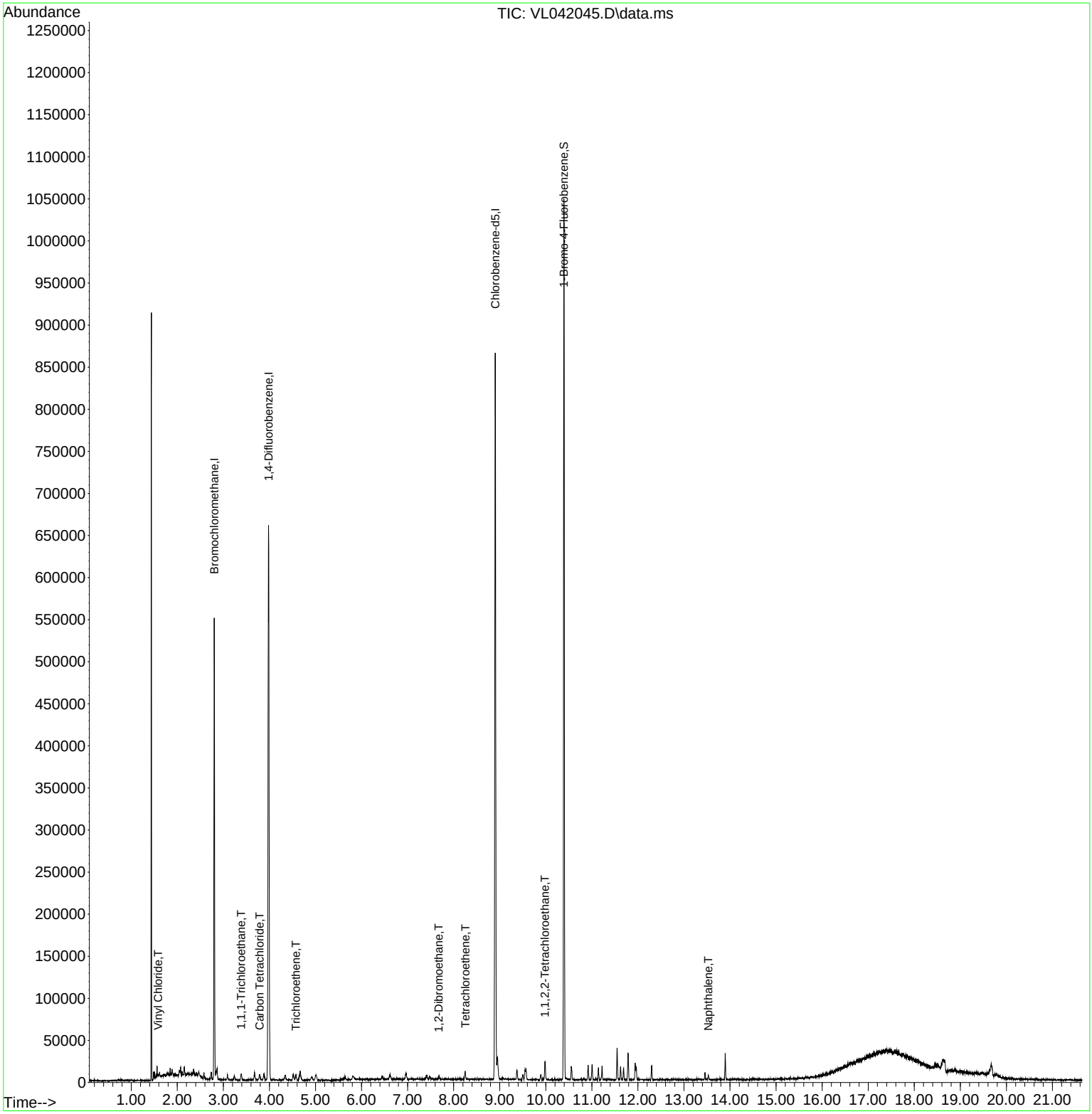
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
Data File : VL042045.D
Acq On : 25 Feb 2025 11:03
Operator : SY/MD
Sample : VSTDICC0.1
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

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
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

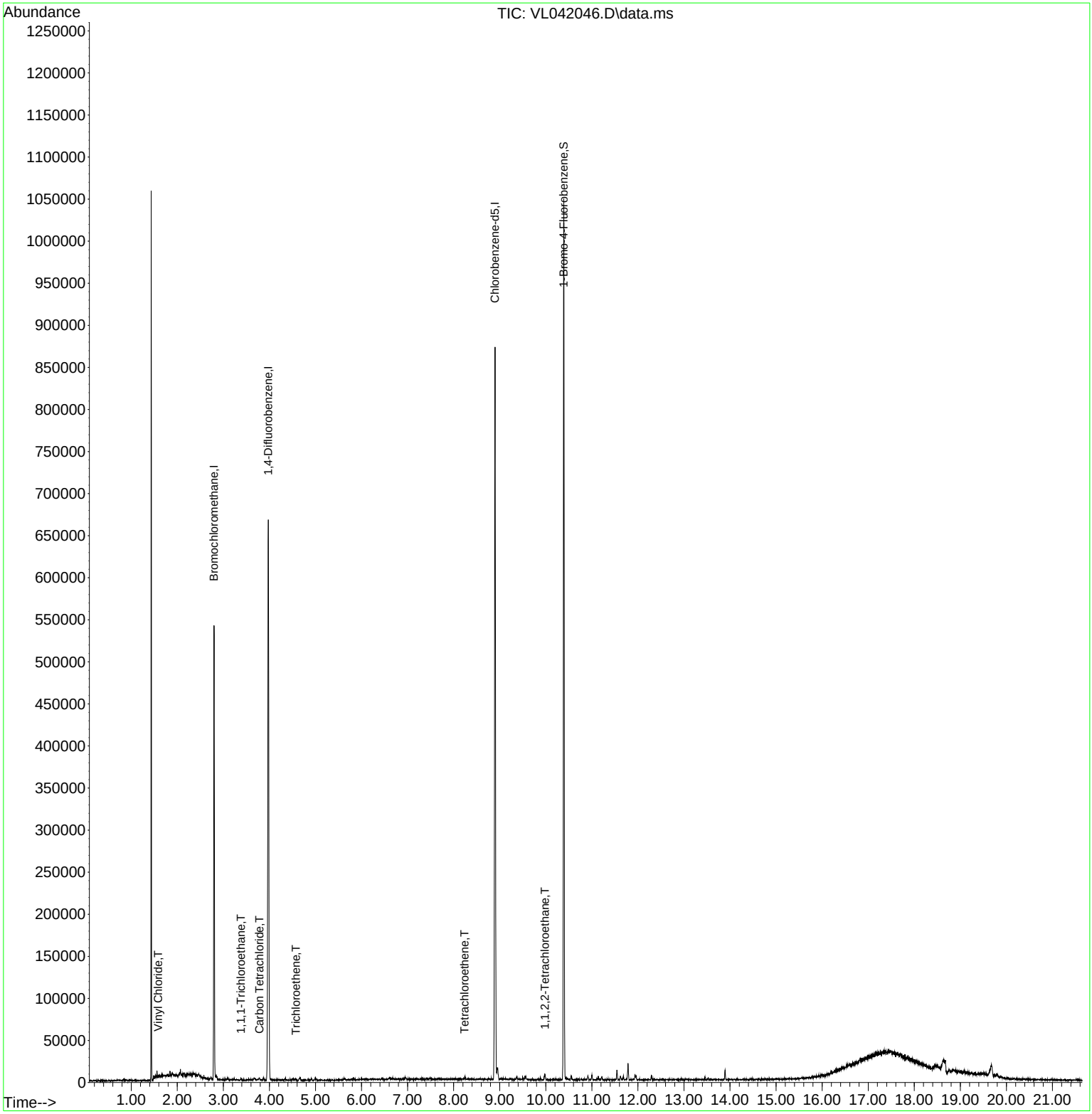
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
Data File : VL042046.D
Acq On : 25 Feb 2025 11:34
Operator : SY/MD
Sample : VSTDICC0.03
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

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

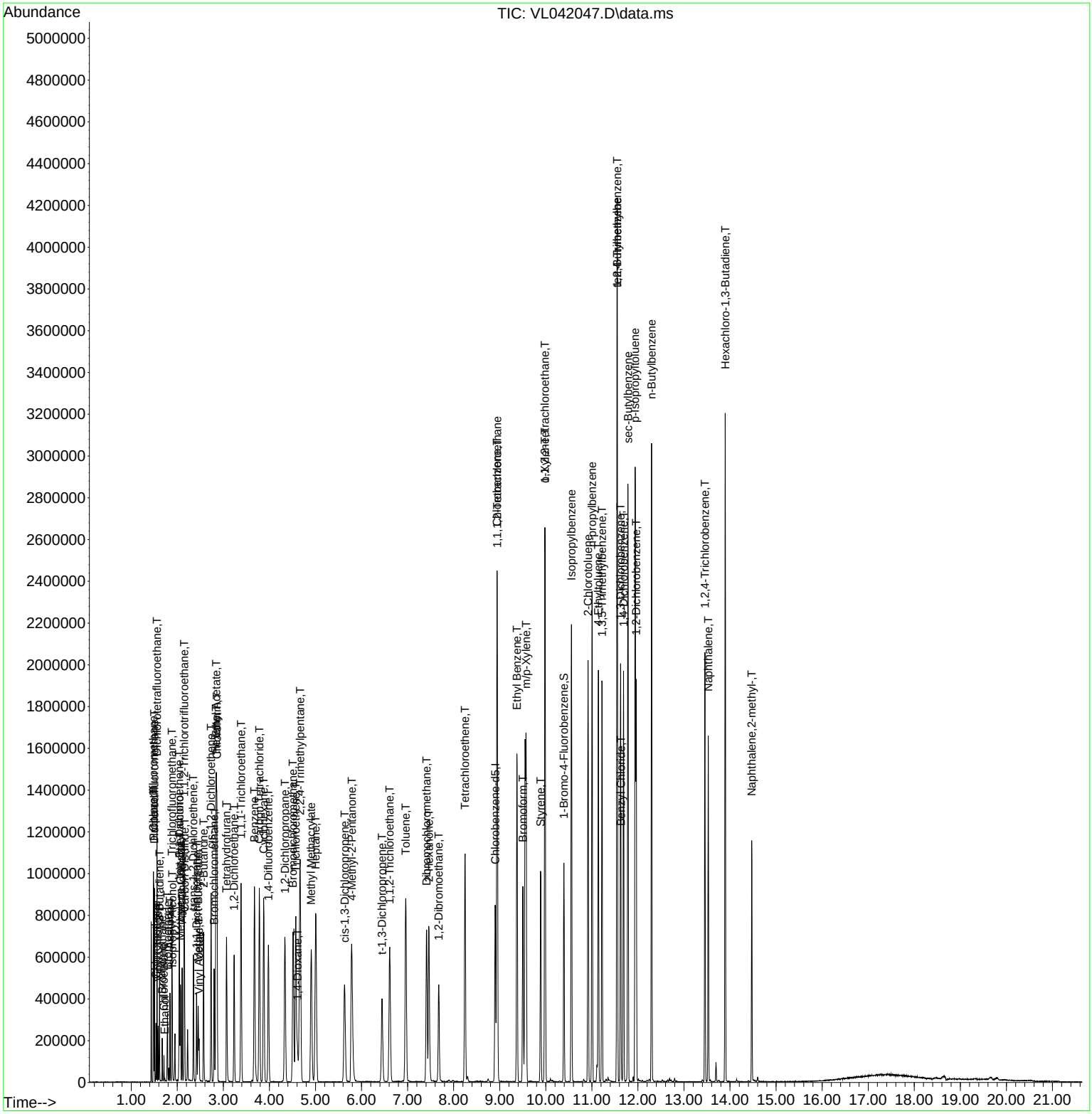
Quantitation Report (QT Reviewed)

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

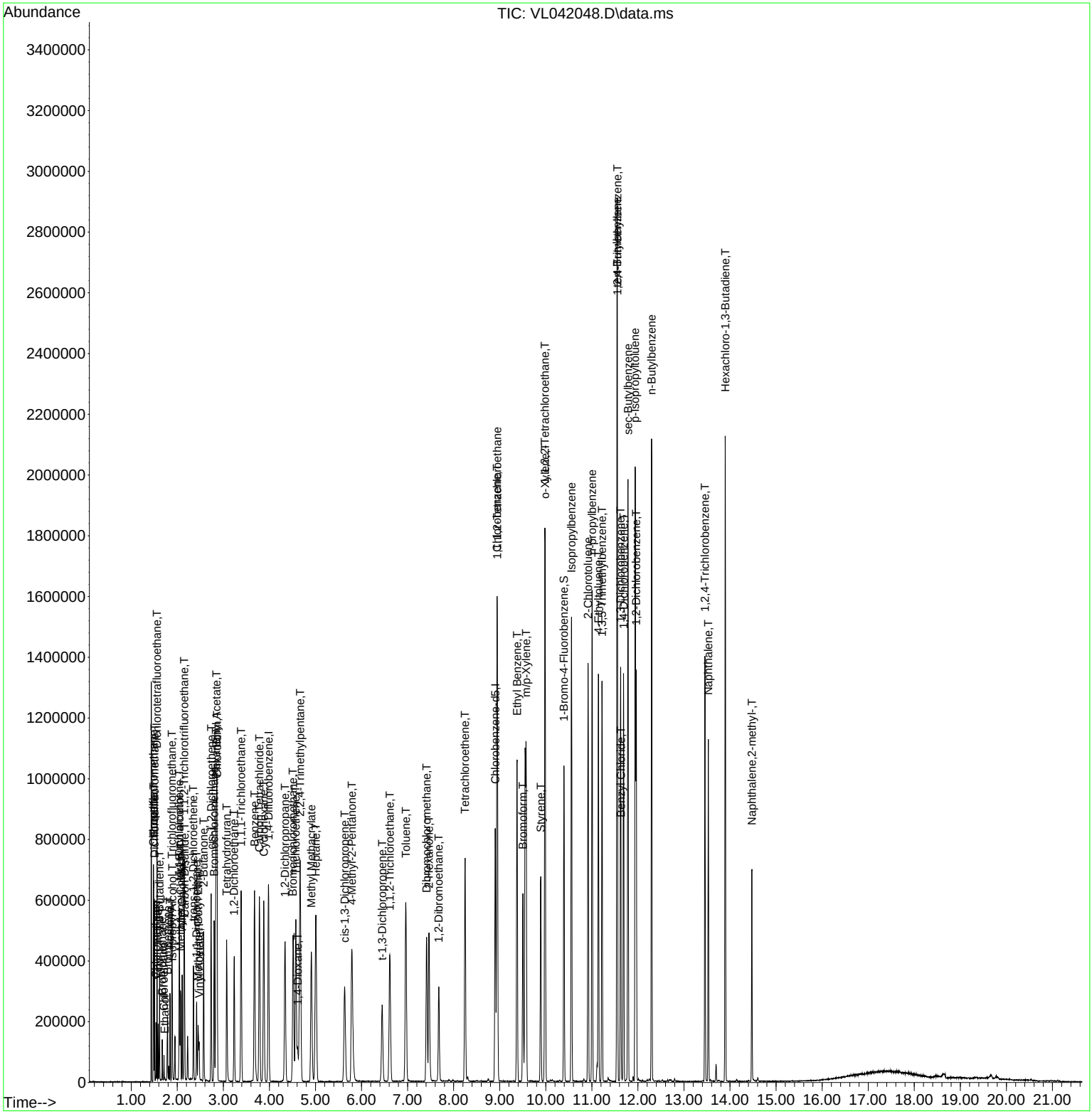
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
Data File : VL042048.D
Acq On : 25 Feb 2025 13:15
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

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

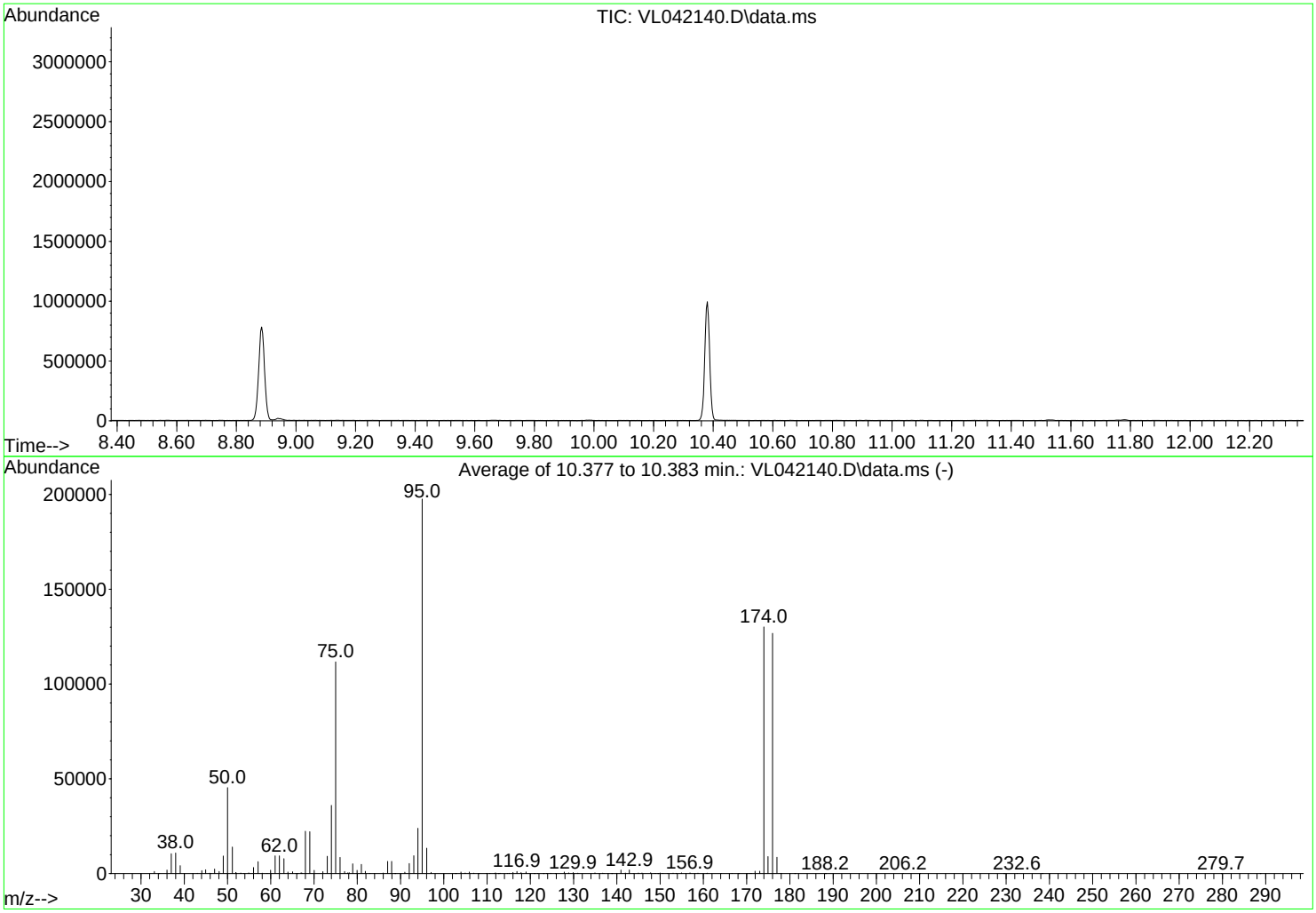
BFB

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\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
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

Quantitation Report (QT Reviewed)

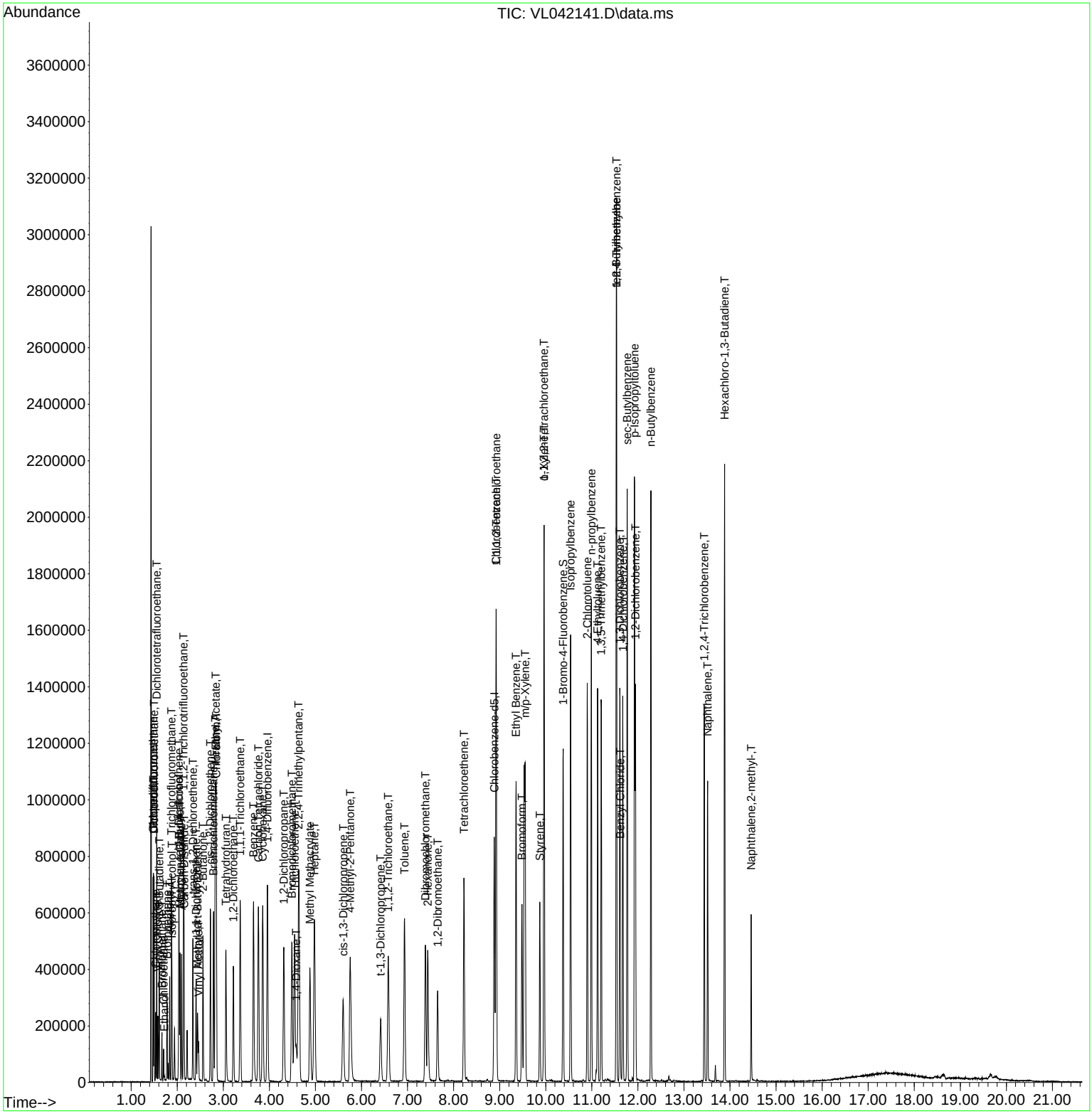
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL031425\
Data File : VL042141.D
Acq On : 14 Mar 2025 08:39
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

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
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

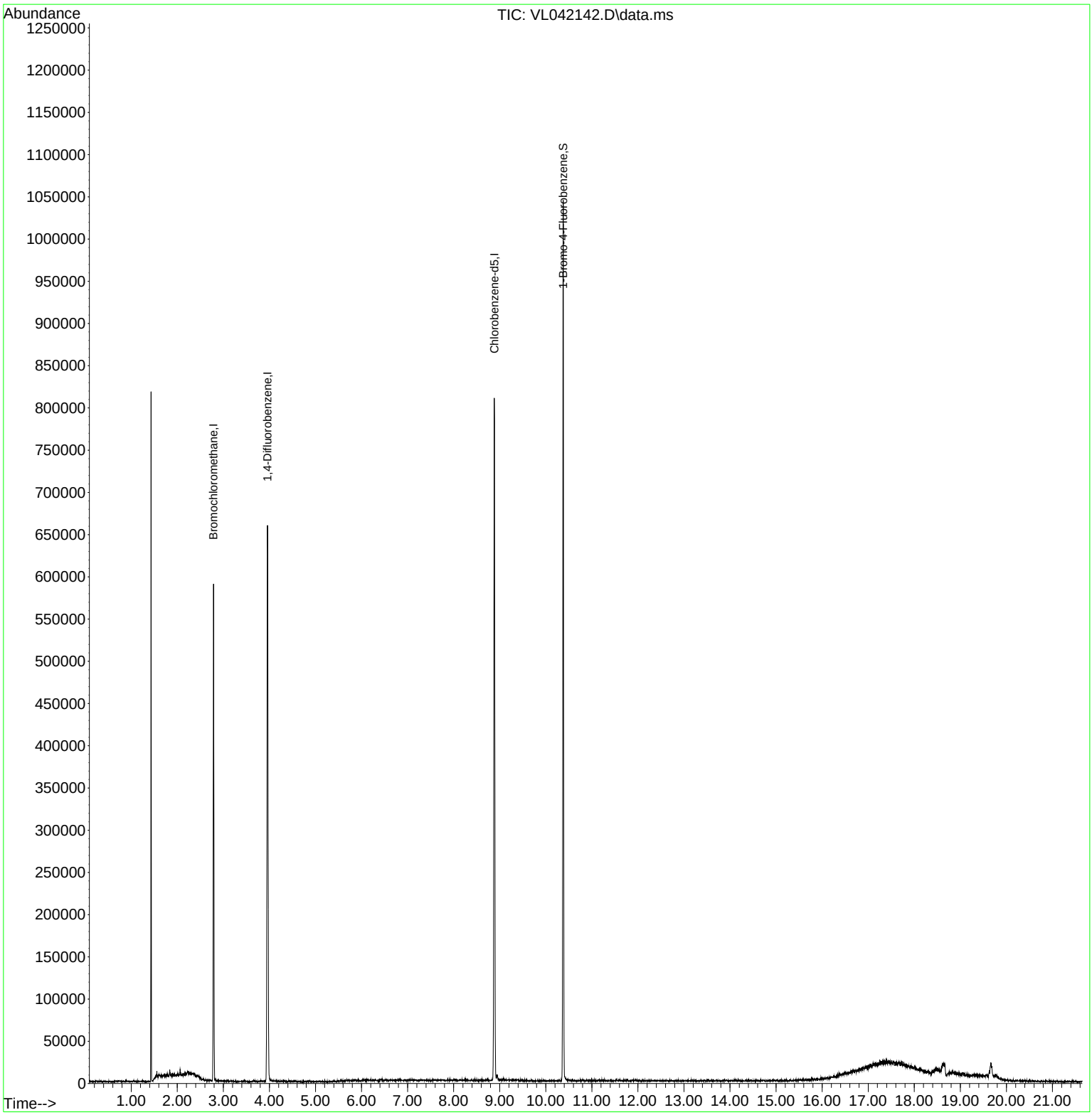
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.787	49	167826	10.000	ppbv	-0.01
33) 1,4-Difluorobenzene	3.958	114	392046	10.000	ppbv	-0.02
55) Chlorobenzene-d5	8.881	117	329113	10.000	ppbv	-0.02
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	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

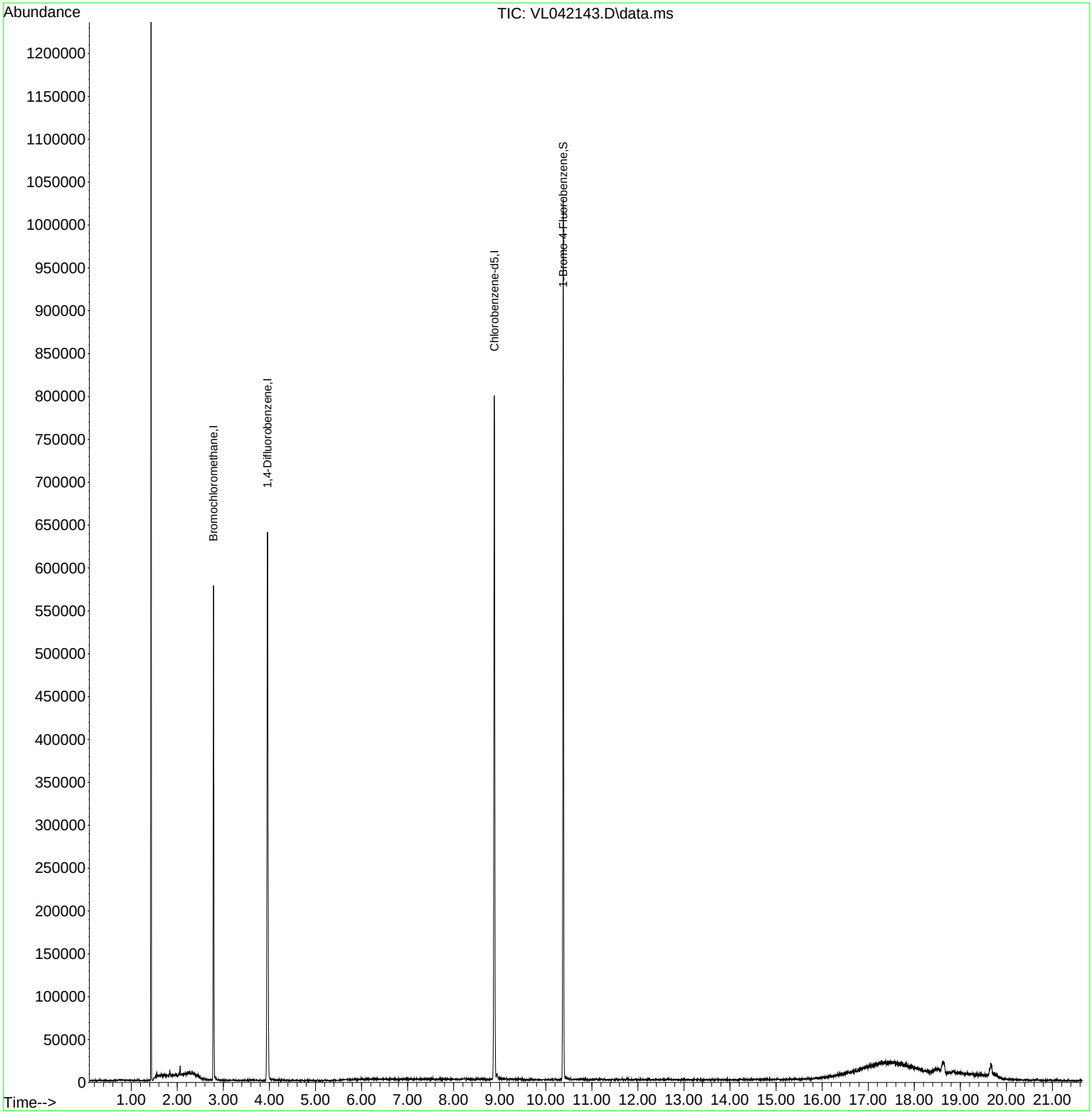
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.787	49	165110	10.000	ppbv	-0.01
33) 1,4-Difluorobenzene	3.958	114	377773	10.000	ppbv	-0.02
55) Chlorobenzene-d5	8.881	117	315162	10.000	ppbv	-0.02
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	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 : VL042145.D
Acq On : 14 Mar 2025 11:11
Operator : SY/MD
Sample : QC031325 CAN 10266
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
QC031325 CAN 10266

Quant Time: Mar 15 06:25:42 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

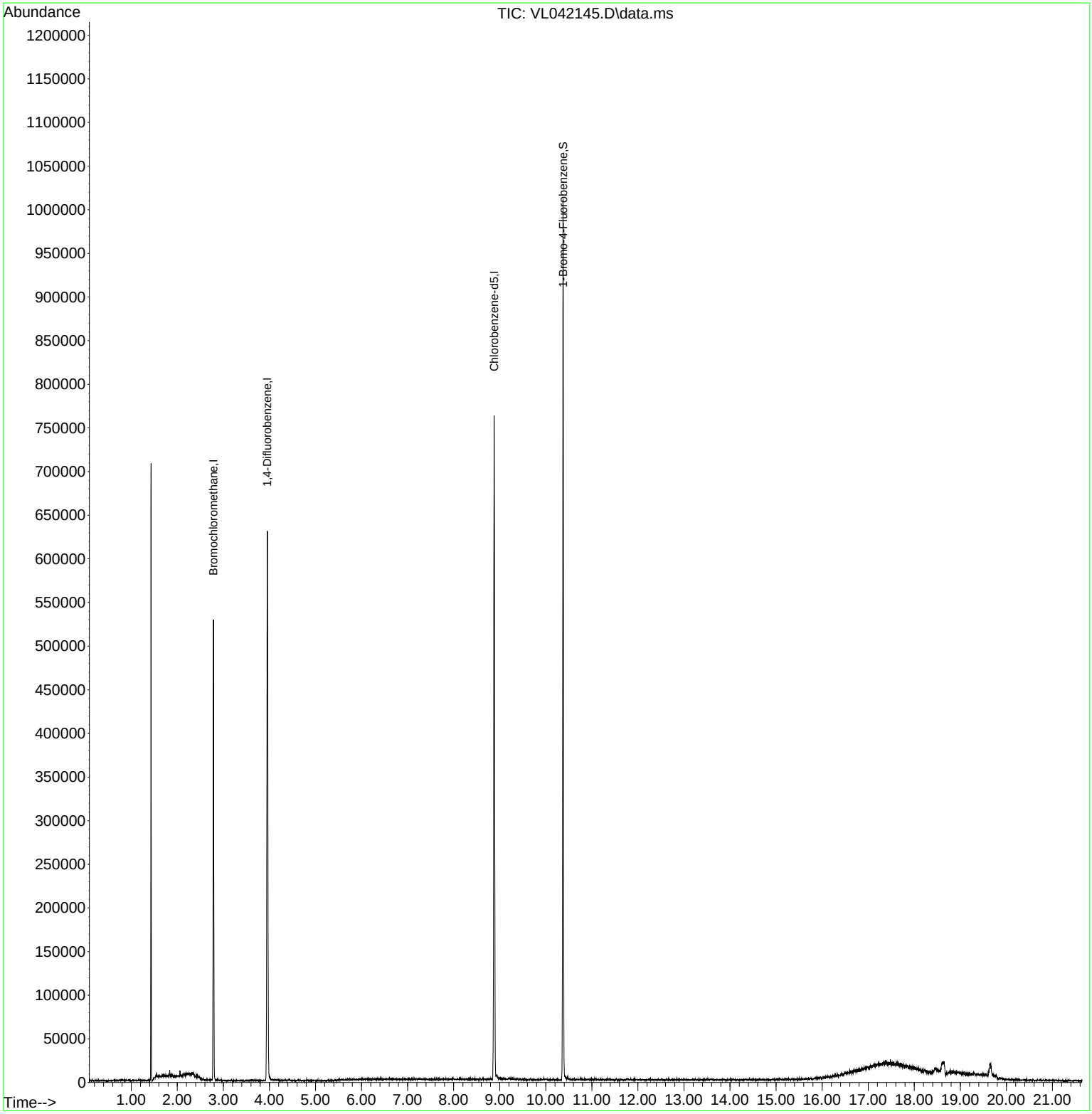
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.784	49	156307	10.000	ppbv	-0.02
33) 1,4-Difluorobenzene	3.955	114	350286	10.000	ppbv	-0.02
55) Chlorobenzene-d5	8.878	117	303615	10.000	ppbv	-0.02
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	230207	9.855	ppbv	-0.02
Spiked Amount 10.000	Range 65 - 135		Recovery = 98.600%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL031425\
Data File : VL042145.D
Acq On : 14 Mar 2025 11:11
Operator : SY/MD
Sample : QC031325 CAN 10266
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
QC031325 CAN 10266

Quant Time: Mar 15 06:25:42 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

Quantitation Report (QT Reviewed)

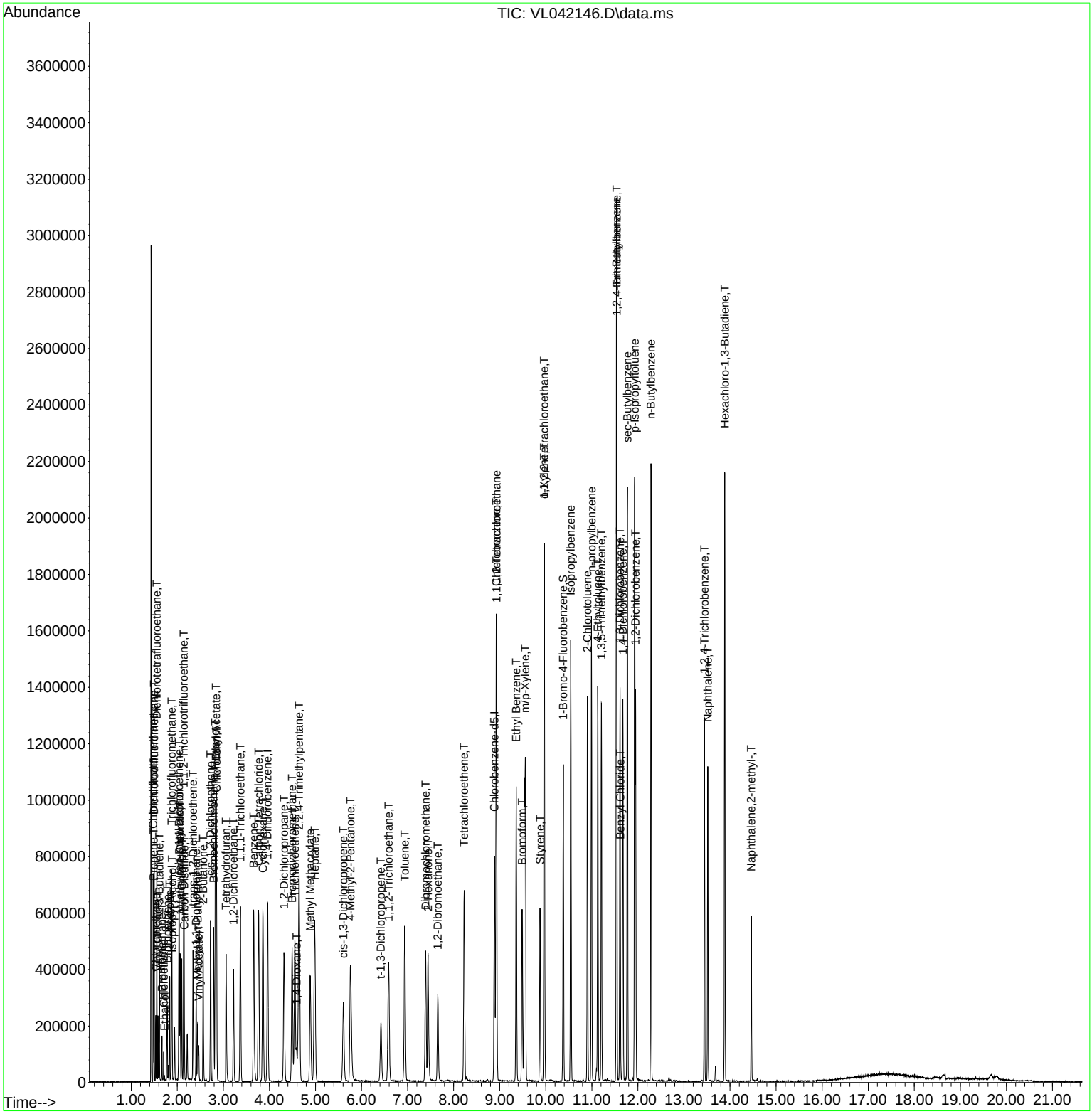
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL031425\
Data File : VL042146.D
Acq On : 14 Mar 2025 12:27
Operator : SY/MD
Sample : VL0314ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

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
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

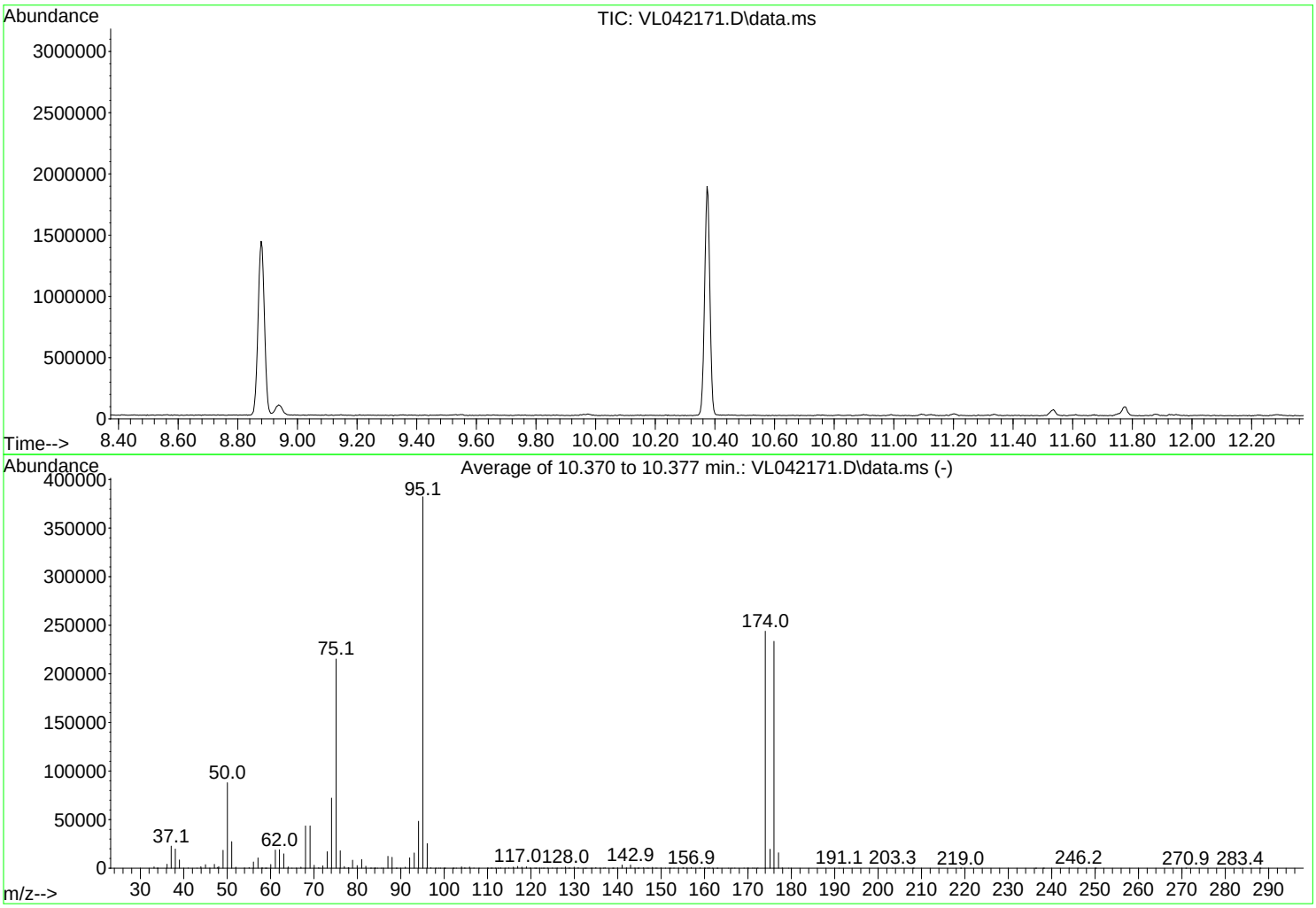


Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
Data File : VL042171.D
Acq On : 27 Mar 2025 07:44
Operator : SY/MD
Sample : BFB
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
Last Update : Fri Mar 28 02:00:52 2025



AutoFind: Scans 3177, 3178, 3179; Background Corrected with Scan 3150

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	23.0	87995	PASS
75	95	30	66	56.3	215296	PASS
95	95	100	100	100.0	382268	PASS
96	95	5	9	6.6	25383	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	63.8	243904	PASS
175	174	4	9	8.0	19539	PASS
176	174	93	101	95.7	233493	PASS
177	176	5	9	6.8	15877	PASS

Response Factor Report MSVOA_L

Method Path : Z:\voasrv\HPCHEM1\MSVOA_L\methods\
Method File : VL032725AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
Last Update : Fri Mar 28 02:00:52 2025
Response Via : Initial Calibration

Calibration Files
0.03=VL042177.D 0.1 =VL042176.D 0.5 =VL042175.D 1 =VL042174.D 2 =VL042173.D 10 =VL042172.D 15 =VL042178.D

		Compound	0.03	0.1	0.5	1	2	10	15	Avg	%RSD
1)	I	Bromochloromethane	----------ISTD----------								
2)	T	Dichlorodifluo...			1.602	1.514	1.482	1.404	1.380	1.476	6.03
3)		Chlorodifluoro...			1.622	1.541	1.514	1.457	1.408	1.508	5.41
4)		Chloromethane			0.660	0.597	0.618	0.573	0.570	0.603	6.17
5)	T	Vinyl Chloride	0.882	0.705	0.635	0.576	0.584	0.549	0.546	0.639	18.84
6)	T	Bromomethane			0.327	0.268	0.266	0.256	0.250	0.273	11.20
7)		Chloroethane			0.286	0.248	0.223	0.227	0.226	0.242	10.92
8)	T	Dichlorotetraf...			1.306	1.283	1.274	1.214	1.211	1.257	3.40
9)	T	Propene			0.734	0.736	0.698	0.660	0.630	0.691	6.69
10)	T	Heptane			1.847	1.940	1.897	1.792	1.719	1.839	4.73
11)	T	Trichlorofluor...			1.562	1.457	1.480	1.339	1.346	1.437	6.59
12)	T	1,1,2-Trichlor...			1.247	1.215	1.188	1.120	1.135	1.181	4.52
13)		Ethanol			0.110	0.086	0.073	0.029	0.028	0.065	55.48
14)	T	Bromoethene			0.529	0.447	0.460	0.417	0.409	0.452	10.47
15)	T	Acetone			1.699	1.573	1.469	1.113	1.139	1.399	18.73
16)	T	1,3-Butadiene			0.952	0.705	0.608	0.573	0.577	0.683	23.38
17)		tert-Butyl alc...			1.935	1.799	1.756	1.618	1.601	1.742	7.91
18)	T	1,1-Dichloroet...			0.624	0.565	0.560	0.504	0.507	0.552	8.99
19)	T	Isopropyl Alcohol			1.016	0.800	0.738	0.702	0.689	0.789	16.99
20)	T	Methylene Chlo...			0.624	0.563	0.545	0.438	0.435	0.521	15.85
21)	T	Allyl Chloride			1.067	1.022	1.020	0.902	0.921	0.986	7.25
22)	T	trans-1,2-Dich...			0.704	0.701	0.621	0.590	0.575	0.638	9.56
23)	T	Vinyl Acetate			0.754	0.692	0.550	0.498	0.532	0.605	18.40
24)	T	1,1-Dichloroet...			1.247	1.208	1.187	1.122	1.149	1.183	4.17
25)	T	Ethyl Acetate			4.017	3.619	3.703	3.457	3.353	3.630	7.06
26)	T	Hexane			1.507	1.462	1.383	1.333	1.325	1.402	5.71
27)	T	Carbon Disulfide			1.608	1.512	1.538	1.436	1.423	1.503	5.07
28)	T	Methyl tert-Bu...			0.921	0.886	0.894	0.831	0.832	0.873	4.56
29)	T	Chloroform			2.233	2.068	2.071	1.932	1.956	2.052	5.81
30)	T	Cyclohexane			1.337	1.238	1.211	1.162	1.140	1.217	6.33
31)	T	cis-1,2-Dichlo...			1.507	1.460	1.426	1.371	1.353	1.423	4.44
32)	T	1,1,1-Trichlor...	3.151	2.495	2.279	2.201	2.152	2.062	2.105	2.349	16.23
33)	I	1,4-Difluorobenzene	----------ISTD----------								
34)	T	2-Butanone			0.754	0.771	0.770	0.667	0.664	0.725	7.58
35)	T	Carbon Tetrach...	1.069	0.782	0.709	0.732	0.748	0.703	0.725	0.781	16.60
36)	T	Benzene			1.049	1.027	1.013	0.934	0.934	0.991	5.47
37)	T	1,2-Dichloroet...			0.613	0.569	0.563	0.537	0.556	0.568	4.95
38)	T	Trichloroethene	0.463	0.437	0.438	0.408	0.398	0.374	0.378	0.414	8.00
39)	T	1,2-Dichloropr...			0.386	0.373	0.365	0.337	0.344	0.361	5.68

Response Factor Report MSVOA_L

Method Path : Z:\voasrv\HPCHEM1\MSVOA_L\methods\
Method File : VL032725AIR.M

40)	T	1,4-Dioxane			0.234	0.197	0.191	0.169	0.167	0.192	14.08
41)	T	Tetrahydrofuran			0.439	0.425	0.432	0.398	0.393	0.418	4.98
42)	T	Bromodichlorom...			0.778	0.779	0.802	0.769	0.785	0.782	1.58
43)		Methyl Methacr...			0.442	0.451	0.408	0.403	0.394	0.420	6.03
44)	T	2,2,4-Trimethy...			1.781	1.689	1.723	1.608	1.576	1.675	5.00
45)	T	t-1,3-Dichloro...			0.474	0.447	0.453	0.439	0.440	0.450	3.15
46)	T	cis-1,3-Dichlo...			0.549	0.560	0.566	0.550	0.535	0.552	2.12
47)	T	1,1,2-Trichlor...			0.419	0.382	0.379	0.364	0.365	0.382	5.88
48)	T	Dibromochlorom...			0.651	0.641	0.663	0.636	0.644	0.647	1.62
49)	T	Bromoform			0.566	0.588	0.597	0.582	0.570	0.581	2.18
50)	T	4-Methyl-2-Pen...			1.286	1.214	1.211	1.027	1.008	1.149	10.79
51)	T	2-Hexanone			0.999	1.018	1.031	0.844	0.827	0.944	10.56
52)	T	Tetrachloroethene	0.572	0.359	0.401	0.361	0.371	0.343	0.345	0.393	20.64
53)	T	Toluene			1.239	1.203	1.202	1.125	1.108	1.175	4.76
54)	T	1,2-Dibromoethane		0.574	0.543	0.538	0.520	0.508	0.510	0.532	4.74
55)	I	Chlorobenzene-d5	----------ISTD----------								
56)		1,1,1,2-Tetrac...			0.576	0.575	0.576	0.510	0.515	0.550	6.30
57)	T	Chlorobenzene			1.024	0.979	0.994	0.875	0.871	0.949	7.46
58)	T	Ethyl Benzene			1.850	1.822	1.894	1.671	1.645	1.776	6.28
59)	T	m/p-Xylene			1.505	1.472	1.484	1.321	1.309	1.418	6.71
60)	T	o-Xylene			1.521	1.475	1.499	1.328	1.287	1.422	7.50
61)	T	Styrene			0.709	0.722	0.735	0.683	0.668	0.703	3.92
62)		Isopropylbenzene			2.290	2.199	2.261	1.962	1.920	2.126	8.14
63)	T	1,1,2,2-Tetrac...	0.986	0.800	0.907	0.889	0.893	0.796	0.777	0.864	8.78
64)		n-propylbenzene			0.578	0.581	0.576	0.499	0.502	0.547	7.81
65)		tert-Butylbenzene			2.190	2.071	2.144	1.736	1.691	1.966	11.96
66)	T	Benzyl Chloride			0.217	0.213	0.221	0.203	0.189	0.209	6.06
67)		sec-Butylbenzene			3.005	2.994	2.947	2.404	2.316	2.733	12.54
68)	S	1-Bromo-4-Fluo...	0.820	0.827	0.832	0.810	0.828	0.813	0.820	0.821	0.98
69)		p-Isopropyltol...			2.554	2.551	2.560	2.078	2.025	2.354	11.74
70)		n-Butylbenzene			2.536	2.598	2.682	2.137	2.082	2.407	11.51
71)		2-Chlorotoluene			1.717	1.728	1.759	1.538	1.510	1.650	7.07
72)	T	4-Ethyltoluene			1.834	1.859	1.929	1.629	1.601	1.770	8.26
73)	T	1,3,5-Trimethy...			1.616	1.671	1.677	1.387	1.381	1.546	9.71
74)	T	1,2,4-Trimethy...			1.994	1.958	1.966	1.510	1.478	1.781	14.74
75)	T	1,3-Dichlorobe...			1.036	1.022	1.063	0.882	0.882	0.977	8.99
76)	T	1,4-Dichlorobe...			1.030	1.017	1.040	0.888	0.886	0.972	8.05
77)	T	1,2-Dichlorobe...			1.012	1.031	1.014	0.850	0.850	0.951	9.78
78)	T	Hexachloro-1,3...			1.057	1.113	1.086	0.802	0.784	0.968	16.65
79)	T	Naphthalene		1.637	1.979	2.181	2.314	1.806	1.773	1.948	13.31
80)	T	Naphthalene,2-...			0.721	0.891	1.163	0.990	1.013	0.955	17.09
81)	T	1,2,4-Trichlor...			0.821	0.941	1.028	0.859	0.843	0.899	9.51

(#) = Out of Range

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
Data File : VL042172.D
Acq On : 27 Mar 2025 08:26
Operator : SY/MD
Sample : VSTDICCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 28 01:31:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2
QLast Update : Fri Mar 28 01:31:23 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.784	49	187002	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	545068	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	519536	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.371	95	422410	9.901	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 99.000%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.496	85	262496	9.507	ppbv	100
3) Chlorodifluoromethane	1.473	51	272522	9.662	ppbv	100
4) Chloromethane	1.531	50	107099	9.491	ppbv	100
5) Vinyl Chloride	1.577	62	102699	8.925	ppbv	100
6) Bromomethane	1.664	94	47950	9.377	ppbv	100
7) Chloroethane	1.703	64	42516	9.387	ppbv	100
8) Dichlorotetrafluoroethane	1.551	85	227041	9.656	ppbv	100
9) Propene	1.483	41	123386	9.709	ppbv	100
10) Heptane	4.972	43	335086	9.744	ppbv	100
11) Trichlorofluoromethane	1.874	101	250349	9.318	ppbv	100
12) 1,1,2-Trichlorotrifluo...	2.137	101	209365	9.481	ppbv	100
13) Ethanol	1.719	45	5338	5.364	ppbv	100
14) Bromoethene	1.777	108	77999	9.220	ppbv	100
15) Acetone	1.832	43	208061	7.955	ppbv	100
16) 1,3-Butadiene	1.606	39	107104	9.105	ppbv	100
17) tert-Butyl alcohol	2.036	59	302616	9.290	ppbv	100
18) 1,1-Dichloroethene	2.030	96	94236	9.128	ppbv	100
19) Isopropyl Alcohol	1.884	45	131359	8.902	ppbv	100
20) Methylene Chloride	2.059	84	81828	8.401	ppbv	100
21) Allyl Chloride	2.091	41	168602	9.141	ppbv	100
22) trans-1,2-Dichloroethene	2.337	96	110371	9.149	ppbv	100
23) Vinyl Acetate	2.460	43	93080	8.563	ppbv	100
24) 1,1-Dichloroethane	2.405	63	209753	9.484	ppbv	100
25) Ethyl Acetate	2.833	43	646501	9.524	ppbv	100
26) Hexane	2.823	57	249331	9.510	ppbv	100
27) Carbon Disulfide	2.146	76	268507	9.550	ppbv	100
28) Methyl tert-Butyl Ether	2.438	73	155398	9.520	ppbv	100
29) Chloroform	2.845	83	361264	9.415	ppbv	100
30) Cyclohexane	3.852	84	217215	9.537	ppbv	100
31) cis-1,2-Dichloroethene	2.716	61	256425	9.634	ppbv	100
32) 1,1,1-Trichloroethane	3.363	97	385628	8.784	ppbv	100
34) 2-Butanone	2.554	43	363735	9.203	ppbv	100
35) Carbon Tetrachloride	3.758	117	382925	9.129	ppbv	100
36) Benzene	3.651	78	508860	9.417	ppbv	100
37) 1,2-Dichloroethane	3.214	62	292937	9.469	ppbv	100
38) Trichloroethene	4.545	130	204027	9.045	ppbv	100
39) 1,2-Dichloropropane	4.312	63	183439	9.321	ppbv	100
40) 1,4-Dioxane	4.577	88	92327	9.042	ppbv #	100
41) Tetrahydrofuran	3.049	42	216851	9.643	ppbv	100
42) Bromodichloromethane	4.483	83	418887	9.822	ppbv	100
43) Methyl Methacrylate	4.872	69	219399	9.618	ppbv	100
44) 2,2,4-Trimethylpentane	4.635	57	876649	9.600	ppbv	100
45) t-1,3-Dichloropropene	6.406	75	239180	9.746	ppbv	100

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
Data File : VL042172.D
Acq On : 27 Mar 2025 08:26
Operator : SY/MD
Sample : VSTDICCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 28 01:31:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2
QLast Update : Fri Mar 28 01:31:23 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.593	75	300021	9.973	ppbv	100
47) 1,1,2-Trichloroethane	6.574	97	198176	9.526	ppbv	100
48) Dibromochloromethane	7.380	129	346499	9.828	ppbv	100
49) Bromoform	9.477	173	317189	10.021	ppbv	100
50) 4-Methyl-2-Pentanone	5.745	43	559800	8.934	ppbv	100
51) 2-Hexanone	7.432	43	460013	8.848	ppbv #	100
52) Tetrachloroethene	8.218	164	186912	8.722	ppbv	100
53) Toluene	6.927	91	613378	9.576	ppbv	100
54) 1,2-Dibromoethane	7.649	107	276797	9.536	ppbv	100
56) 1,1,1,2-Tetrachloroethane	8.917	131	265037	9.268	ppbv	100
57) Chlorobenzene	8.917	112	454511	9.223	ppbv	100
58) Ethyl Benzene	9.351	91	868003	9.406	ppbv	100
59) m/p-Xylene	9.549	91	1372806m	18.607	ppbv	
60) o-Xylene	9.960	91	689933	9.340	ppbv	100
61) Styrene	9.866	104	354697	9.706	ppbv	100
62) Isopropylbenzene	10.536	105	1019255	9.227	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.960	83	413392	9.210	ppbv	100
64) n-propylbenzene	10.986	120	259405	9.122	ppbv	100
65) tert-Butylbenzene	11.529	119	901951	8.828	ppbv	100
66) Benzyl Chloride	11.610	91	105411	9.724	ppbv	100
67) sec-Butylbenzene	11.766	105	1249106	8.796	ppbv	100
69) p-Isopropyltoluene	11.924	119	1079675	8.830	ppbv	100
70) n-Butylbenzene	12.277	91	1110351	8.879	ppbv	100
71) 2-Chlorotoluene	10.898	91	799102	9.320	ppbv	100
72) 4-Ethyltoluene	11.122	105	846232	9.200	ppbv	100
73) 1,3,5-Trimethylbenzene	11.199	105	720566	8.970	ppbv	100
74) 1,2,4-Trimethylbenzene	11.536	105	784745	8.480	ppbv	100
75) 1,3-Dichlorobenzene	11.604	146	458226	9.028	ppbv	100
76) 1,4-Dichlorobenzene	11.669	146	461371	9.134	ppbv	100
77) 1,2-Dichlorobenzene	11.944	146	441473	8.933	ppbv	100
78) Hexachloro-1,3-Butadiene	13.879	225	416735	8.284	ppbv	100
79) Naphthalene	13.510	128	938470	9.271	ppbv	100
80) Naphthalene,2-methyl-	14.455	142	514394	10.436	ppbv	100
81) 1,2,4-Trichlorobenzene	13.439	180	446420	9.561	ppbv	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

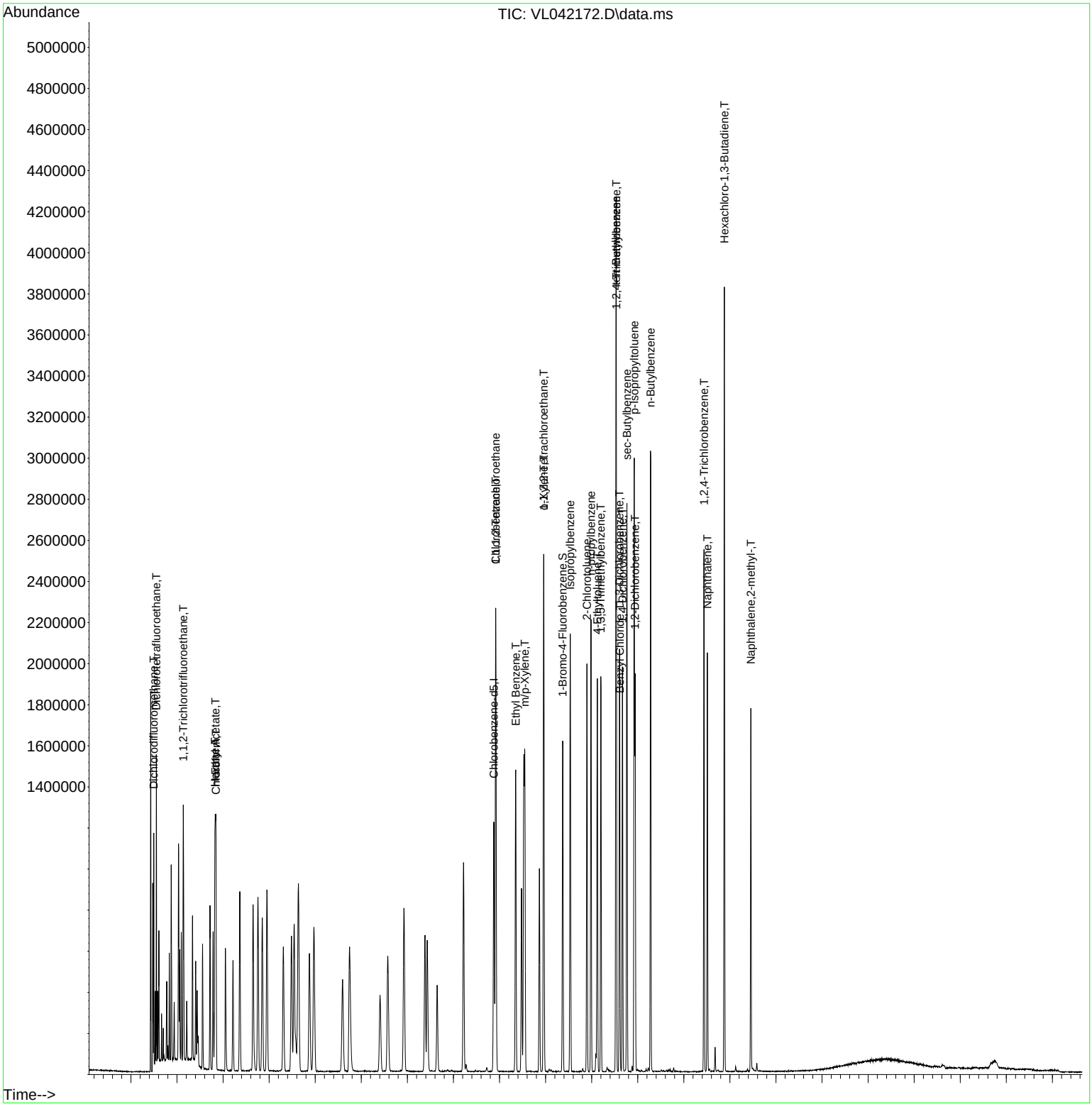
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
Data File : VL042172.D
Acq On : 27 Mar 2025 08:26
Operator : SY/MD
Sample : VSTDICCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 28 01:31:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Mar 28 01:31:23 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
Data File : VL042173.D
Acq On : 27 Mar 2025 08:59
Operator : SY/MD
Sample : VSTDICC002
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 28 01:32:52 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2
QLast Update : Fri Mar 28 01:31:23 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.784	49	188395	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.952	114	546394	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.875	117	504538	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.370	95	417532	10.077	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 100.800%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.496	85	55859	2.008	ppbv		99
3) Chlorodifluoromethane	1.473	51	57045	2.007	ppbv		99
4) Chloromethane	1.531	50	23293	2.049	ppbv		94
5) Vinyl Chloride	1.576	62	21989	1.897	ppbv		99
6) Bromomethane	1.664	94	10027	1.946	ppbv		98
7) Chloroethane	1.703	64	8413	1.844	ppbv		92
8) Dichlorotetrafluoroethane	1.551	85	48008	2.027	ppbv		98
9) Propene	1.483	41	26295	2.054	ppbv		94
10) Heptane	4.972	43	71466	2.063	ppbv		99
11) Trichlorofluoromethane	1.874	101	55754	2.060	ppbv		99
12) 1,1,2-Trichlorotrifluo...	2.136	101	44761	2.012	ppbv		98
13) Ethanol	1.719	45	2748m	2.741	ppbv		
14) Bromoethene	1.780	108	17323	2.033	ppbv	#	89
15) Acetone	1.832	43	55365	2.101	ppbv		95
16) 1,3-Butadiene	1.606	39	22894	1.932	ppbv		95
17) tert-Butyl alcohol	2.039	59	66174	2.016	ppbv		100
18) 1,1-Dichloroethene	2.030	96	21103	2.029	ppbv		95
19) Isopropyl Alcohol	1.884	45	27804	1.870	ppbv	#	35
20) Methylene Chloride	2.059	84	20518	2.091	ppbv		96
21) Allyl Chloride	2.094	41	38425	2.068	ppbv		99
22) trans-1,2-Dichloroethene	2.337	96	23384	1.924	ppbv		92
23) Vinyl Acetate	2.460	43	20736	1.894	ppbv	#	97
24) 1,1-Dichloroethane	2.405	63	44740	2.008	ppbv		99
25) Ethyl Acetate	2.832	43	139516	2.040	ppbv		99
26) Hexane	2.823	57	52095	1.972	ppbv		92
27) Carbon Disulfide	2.146	76	57969	2.047	ppbv	#	76
28) Methyl tert-Butyl Ether	2.437	73	33703	2.049	ppbv		99
29) Chloroform	2.845	83	78043	2.019	ppbv		95
30) Cyclohexane	3.852	84	45641	1.989	ppbv		99
31) cis-1,2-Dichloroethene	2.719	61	53713	2.003	ppbv		96
32) 1,1,1-Trichloroethane	3.363	97	81070	1.833	ppbv		99
34) 2-Butanone	2.554	43	84157	2.124	ppbv		99
35) Carbon Tetrachloride	3.758	117	81735	1.944	ppbv		96
36) Benzene	3.651	78	110727	2.044	ppbv		97
37) 1,2-Dichloroethane	3.214	62	61476	1.982	ppbv		97
38) Trichloroethene	4.541	130	43501	1.924	ppbv		97
39) 1,2-Dichloropropane	4.308	63	39912	2.023	ppbv		93
40) 1,4-Dioxane	4.587	88	20884m	2.040	ppbv		
41) Tetrahydrofuran	3.056	42	47262	2.097	ppbv		99
42) Bromodichloromethane	4.483	83	87640	2.050	ppbv		99
43) Methyl Methacrylate	4.878	69	44624	1.952	ppbv		97
44) 2,2,4-Trimethylpentane	4.632	57	188282	2.057	ppbv		100
45) t-1,3-Dichloropropene	6.406	75	49461	2.011	ppbv		99

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
Data File : VL042173.D
Acq On : 27 Mar 2025 08:59
Operator : SY/MD
Sample : VSTDICC002
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 28 01:32:52 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2
QLast Update : Fri Mar 28 01:31:23 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) cis-1,3-Dichloropropene	5.593	75	61829	2.050	ppbv	#	91
47) 1,1,2-Trichloroethane	6.577	97	41387	1.985	ppbv		95
48) Dibromochloromethane	7.383	129	72441	2.050	ppbv		100
49) Bromoform	9.477	173	65221	2.056	ppbv		98
50) 4-Methyl-2-Pentanone	5.752	43	132328	2.107	ppbv		99
51) 2-Hexanone	7.435	43	112681	2.162	ppbv	#	99
52) Tetrachloroethene	8.221	164	40558	1.888	ppbv		98
53) Toluene	6.923	91	131314	2.045	ppbv		99
54) 1,2-Dibromoethane	7.648	107	56799	1.952	ppbv		90
56) 1,1,1,2-Tetrachloroethane	8.920	131	58141	2.093	ppbv		97
57) Chlorobenzene	8.914	112	100308	2.096	ppbv	#	94
58) Ethyl Benzene	9.351	91	191114	2.132	ppbv		96
59) m/p-Xylene	9.548	91	299531m	4.181	ppbv		
60) o-Xylene	9.959	91	151292	2.109	ppbv		98
61) Styrene	9.865	104	74134	2.089	ppbv		98
62) Isopropylbenzene	10.535	105	228191	2.127	ppbv		99
63) 1,1,2,2-Tetrachloroethane	9.956	83	90114	2.067	ppbv		99
64) n-propylbenzene	10.985	120	58105	2.104	ppbv		92
65) tert-Butylbenzene	11.529	119	216336	2.180	ppbv		99
66) Benzyl Chloride	11.610	91	22272	2.116	ppbv		95
67) sec-Butylbenzene	11.762	105	297381	2.156	ppbv		99
69) p-Isopropyltoluene	11.921	119	258357	2.176	ppbv		100
70) n-Butylbenzene	12.277	91	270616	2.228	ppbv		99
71) 2-Chlorotoluene	10.898	91	177487	2.132	ppbv		100
72) 4-Ethyltoluene	11.121	105	194660	2.179	ppbv		99
73) 1,3,5-Trimethylbenzene	11.199	105	169221	2.169	ppbv		96
74) 1,2,4-Trimethylbenzene	11.532	105	198351	2.207	ppbv		96
75) 1,3-Dichlorobenzene	11.604	146	107217	2.175	ppbv		97
76) 1,4-Dichlorobenzene	11.668	146	104925	2.139	ppbv		99
77) 1,2-Dichlorobenzene	11.943	146	102310	2.132	ppbv		99
78) Hexachloro-1,3-Butadiene	13.879	225	109539	2.242	ppbv		99
79) Naphthalene	13.510	128	233451	2.375	ppbv		97
80) Naphthalene,2-methyl-	14.455	142	117313	2.451	ppbv		99
81) 1,2,4-Trichlorobenzene	13.435	180	103765	2.288	ppbv		97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

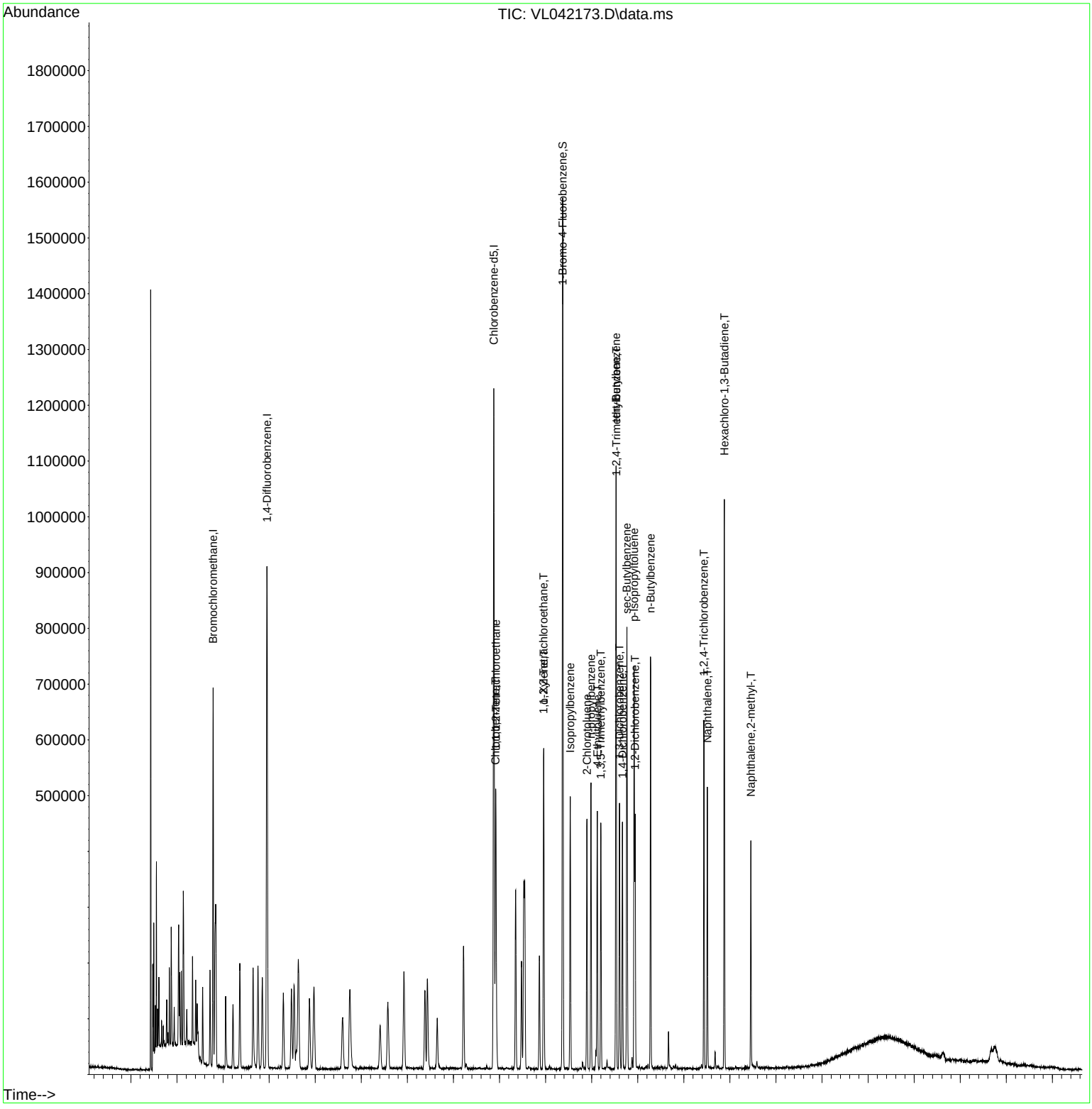
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
Data File : VL042173.D
Acq On : 27 Mar 2025 08:59
Operator : SY/MD
Sample : VSTDICC002
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 28 01:32:52 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Mar 28 01:31:23 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
Data File : VL042174.D
Acq On : 27 Mar 2025 09:30
Operator : SY/MD
Sample : VSTDICC001
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 28 01:33:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2
QLast Update : Fri Mar 28 01:31:23 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.784	49	186244	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.952	114	537244	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.879	117	499830	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.371	95	404753	9.861	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 98.600%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.496	85	28203	1.026	ppbv		99
3) Chlorodifluoromethane	1.473	51	28693	1.021	ppbv		94
4) Chloromethane	1.531	50	11111	0.989	ppbv		99
5) Vinyl Chloride	1.577	62	10723	0.936	ppbv		98
6) Bromomethane	1.667	94	4984	0.979	ppbv		97
7) Chloroethane	1.703	64	4622	1.025	ppbv		100
8) Dichlorotetrafluoroethane	1.554	85	23886	1.020	ppbv		98
9) Propene	1.483	41	13699m	1.082	ppbv		
10) Heptane	4.975	43	36132	1.055	ppbv		100
11) Trichlorofluoromethane	1.875	101	27136	1.014	ppbv		96
12) 1,1,2-Trichlorotrifluo...	2.137	101	22629	1.029	ppbv		99
13) Ethanol	1.719	45	1610m	1.624	ppbv		
14) Bromoethene	1.781	108	8330	0.989	ppbv	#	82
15) Acetone	1.836	43	29294	1.125	ppbv		95
16) 1,3-Butadiene	1.606	39	13133	1.121	ppbv		97
17) tert-Butyl alcohol	2.040	59	33500	1.033	ppbv		97
18) 1,1-Dichloroethene	2.033	96	10532	1.024	ppbv		89
19) Isopropyl Alcohol	1.884	45	14903	1.014	ppbv	#	38
20) Methylene Chloride	2.059	84	10481	1.080	ppbv		93
21) Allyl Chloride	2.095	41	19039	1.036	ppbv		99
22) trans-1,2-Dichloroethene	2.341	96	13051m	1.086	ppbv		
23) Vinyl Acetate	2.464	43	12883m	1.190	ppbv		
24) 1,1-Dichloroethane	2.409	63	22505	1.022	ppbv		99
25) Ethyl Acetate	2.836	43	67402	0.997	ppbv	#	96
26) Hexane	2.823	57	27223	1.043	ppbv		98
27) Carbon Disulfide	2.146	76	28167	1.006	ppbv	#	47
28) Methyl tert-Butyl Ether	2.441	73	16501	1.015	ppbv		95
29) Chloroform	2.845	83	38516	1.008	ppbv		96
30) Cyclohexane	3.852	84	23052	1.016	ppbv		97
31) cis-1,2-Dichloroethene	2.716	61	27187	1.026	ppbv		89
32) 1,1,1-Trichloroethane	3.363	97	40993	0.938	ppbv		99
34) 2-Butanone	2.557	43	41423	1.063	ppbv		98
35) Carbon Tetrachloride	3.758	117	39345	0.952	ppbv		93
36) Benzene	3.651	78	55156	1.036	ppbv		94
37) 1,2-Dichloroethane	3.218	62	30543	1.002	ppbv		98
38) Trichloroethene	4.545	130	21906	0.985	ppbv		93
39) 1,2-Dichloropropane	4.312	63	20020	1.032	ppbv		99
40) 1,4-Dioxane	4.593	88	10592m	1.052	ppbv		
41) Tetrahydrofuran	3.056	42	22818	1.029	ppbv		97
42) Bromodichloromethane	4.483	83	41864	0.996	ppbv		90
43) Methyl Methacrylate	4.875	69	24233m	1.078	ppbv		
44) 2,2,4-Trimethylpentane	4.632	57	90727	1.008	ppbv		96
45) t-1,3-Dichloropropene	6.403	75	23993m	0.992	ppbv		

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
Data File : VL042174.D
Acq On : 27 Mar 2025 09:30
Operator : SY/MD
Sample : VSTDICC001
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 28 01:33:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2
QLast Update : Fri Mar 28 01:31:23 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46)	cis-1,3-Dichloropropene	5.593	75	30063	1.014	ppbv		93
47)	1,1,2-Trichloroethane	6.577	97	20546	1.002	ppbv		96
48)	Dibromochloromethane	7.383	129	34425	0.991	ppbv		100
49)	Bromoform	9.481	173	31610	1.013	ppbv		98
50)	4-Methyl-2-Pentanone	5.752	43	65226m	1.056	ppbv		
51)	2-Hexanone	7.438	43	54680	1.067	ppbv	#	100
52)	Tetrachloroethene	8.222	164	19415	0.919	ppbv		95
53)	Toluene	6.927	91	64612	1.023	ppbv		99
54)	1,2-Dibromoethane	7.652	107	28879	1.009	ppbv		95
56)	1,1,1,2-Tetrachloroethane	8.924	131	28764	1.045	ppbv	#	87
57)	Chlorobenzene	8.917	112	48930	1.032	ppbv		93
58)	Ethyl Benzene	9.348	91	91086	1.026	ppbv		97
59)	m/p-Xylene	9.529	91	147162m	2.073	ppbv		
60)	o-Xylene	9.960	91	73702	1.037	ppbv		96
61)	Styrene	9.866	104	36110	1.027	ppbv		97
62)	Isopropylbenzene	10.536	105	109897	1.034	ppbv		98
63)	1,1,2,2-Tetrachloroethane	9.960	83	44431	1.029	ppbv		99
64)	n-propylbenzene	10.986	120	29054	1.062	ppbv		98
65)	tert-Butylbenzene	11.526	119	103520	1.053	ppbv		96
66)	Benzyl Chloride	11.614	91	10660	1.022	ppbv	#	93
67)	sec-Butylbenzene	11.762	105	149660	1.095	ppbv		97
69)	p-Isopropyltoluene	11.921	119	127509	1.084	ppbv		99
70)	n-Butylbenzene	12.280	91	129860	1.079	ppbv		99
71)	2-Chlorotoluene	10.898	91	86356	1.047	ppbv		100
72)	4-Ethyltoluene	11.122	105	92912	1.050	ppbv		99
73)	1,3,5-Trimethylbenzene	11.199	105	83497	1.080	ppbv		92
74)	1,2,4-Trimethylbenzene	11.533	105	97858	1.099	ppbv		94
75)	1,3-Dichlorobenzene	11.604	146	51096	1.046	ppbv		99
76)	1,4-Dichlorobenzene	11.669	146	50841	1.046	ppbv		99
77)	1,2-Dichlorobenzene	11.944	146	51523	1.084	ppbv		99
78)	Hexachloro-1,3-Butadiene	13.879	225	55611	1.149	ppbv		97
79)	Naphthalene	13.510	128	109031	1.120	ppbv		99
80)	Naphthalene,2-methyl-	14.455	142	44518	0.939	ppbv		99
81)	1,2,4-Trichlorobenzene	13.436	180	47040	1.047	ppbv		98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

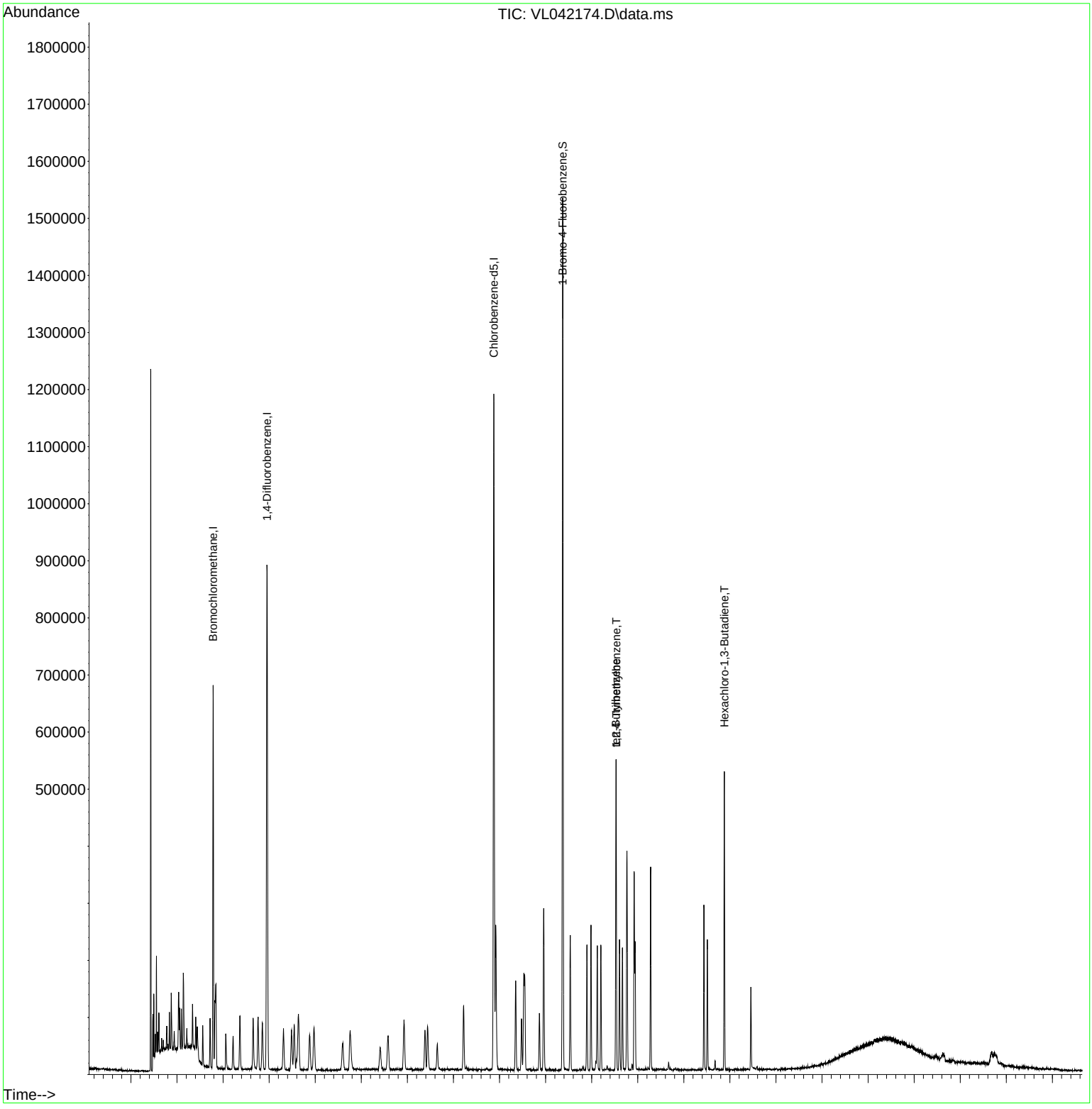
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
Data File : VL042174.D
Acq On : 27 Mar 2025 09:30
Operator : SY/MD
Sample : VSTDICC001
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 28 01:33:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Mar 28 01:31:23 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
Data File : VL042175.D
Acq On : 27 Mar 2025 10:01
Operator : SY/MD
Sample : VSTDICC0.5
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 28 01:34:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2
QLast Update : Fri Mar 28 01:31:23 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.784	49	180502	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.952	114	523832	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.875	117	485078	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.370	95	403513	10.130	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 101.300%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.496	85	14455	0.542	ppbv		95
3) Chlorodifluoromethane	1.473	51	14637	0.538	ppbv	#	89
4) Chloromethane	1.531	50	5956	0.547	ppbv		94
5) Vinyl Chloride	1.577	62	5732	0.516	ppbv		92
6) Bromomethane	1.664	94	2949	0.597	ppbv		95
7) Chloroethane	1.703	64	2582	0.591	ppbv	#	87
8) Dichlorotetrafluoroethane	1.551	85	11783	0.519	ppbv		98
9) Propene	1.483	41	6622m	0.540	ppbv		
10) Heptane	4.972	43	16673	0.502	ppbv		89
11) Trichlorofluoromethane	1.874	101	14099	0.544	ppbv		92
12) 1,1,2-Trichlorotrifluo...	2.136	101	11252	0.528	ppbv		99
13) Ethanol	1.722	45	997	1.038	ppbv	#	36
14) Bromoethene	1.780	108	4770	0.584	ppbv	#	86
15) Acetone	1.835	43	15331	0.607	ppbv	#	85
16) 1,3-Butadiene	1.606	39	8594	0.757	ppbv		82
17) tert-Butyl alcohol	2.039	59	17467	0.556	ppbv		97
18) 1,1-Dichloroethene	2.030	96	5634	0.565	ppbv	#	92
19) Isopropyl Alcohol	1.884	45	9171	0.644	ppbv	#	39
20) Methylene Chloride	2.059	84	5634	0.599	ppbv	#	93
21) Allyl Chloride	2.091	41	9632	0.541	ppbv		89
22) trans-1,2-Dichloroethene	2.334	96	6353	0.546	ppbv		83
23) Vinyl Acetate	2.457	43	6809	0.649	ppbv	#	91
24) 1,1-Dichloroethane	2.405	63	11258	0.527	ppbv		97
25) Ethyl Acetate	2.836	43	36258	0.553	ppbv		98
26) Hexane	2.823	57	13605	0.538	ppbv		92
27) Carbon Disulfide	2.146	76	14510	0.535	ppbv	#	1
28) Methyl tert-Butyl Ether	2.437	73	8310	0.527	ppbv	#	89
29) Chloroform	2.845	83	20149	0.544	ppbv		98
30) Cyclohexane	3.852	84	12063m	0.549	ppbv		
31) cis-1,2-Dichloroethene	2.719	61	13601	0.529	ppbv		92
32) 1,1,1-Trichloroethane	3.360	97	20567	0.485	ppbv		100
34) 2-Butanone	2.557	43	19739	0.520	ppbv		96
35) Carbon Tetrachloride	3.755	117	18558	0.460	ppbv		93
36) Benzene	3.651	78	27488	0.529	ppbv	#	87
37) 1,2-Dichloroethane	3.214	62	16062	0.540	ppbv		100
38) Trichloroethene	4.538	130	11460m	0.529	ppbv		
39) 1,2-Dichloropropane	4.308	63	10123	0.535	ppbv		92
40) 1,4-Dioxane	4.593	88	6121m	0.624	ppbv		
41) Tetrahydrofuran	3.059	42	11509m	0.533	ppbv		
42) Bromodichloromethane	4.483	83	20374	0.497	ppbv	#	98
43) Methyl Methacrylate	4.875	69	11583m	0.528	ppbv		
44) 2,2,4-Trimethylpentane	4.632	57	46646	0.532	ppbv		95
45) t-1,3-Dichloropropene	6.406	75	12404	0.526	ppbv	#	79

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
Data File : VL042175.D
Acq On : 27 Mar 2025 10:01
Operator : SY/MD
Sample : VSTDICC0.5
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 28 01:34:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2
QLast Update : Fri Mar 28 01:31:23 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) cis-1,3-Dichloropropene	5.593	75	14374m	0.497	ppbv		
47) 1,1,2-Trichloroethane	6.574	97	10972m	0.549	ppbv		
48) Dibromochloromethane	7.380	129	17042	0.503	ppbv		99
49) Bromoform	9.480	173	14828	0.487	ppbv		98
50) 4-Methyl-2-Pentanone	5.758	43	33674	0.559	ppbv		97
51) 2-Hexanone	7.438	43	26154	0.523	ppbv	#	100
52) Tetrachloroethene	8.218	164	10502	0.510	ppbv		94
53) Toluene	6.923	91	32444	0.527	ppbv		98
54) 1,2-Dibromoethane	7.648	107	14220	0.510	ppbv		99
56) 1,1,1,2-Tetrachloroethane	8.920	131	13959	0.523	ppbv	#	1
57) Chlorobenzene	8.914	112	24826	0.540	ppbv	#	91
58) Ethyl Benzene	9.348	91	44862	0.521	ppbv		96
59) m/p-Xylene	9.542	91	73028m	1.060	ppbv		
60) o-Xylene	9.959	91	36879	0.535	ppbv		98
61) Styrene	9.866	104	17198	0.504	ppbv		96
62) Isopropylbenzene	10.536	105	55531	0.538	ppbv		99
63) 1,1,2,2-Tetrachloroethane	9.959	83	21989	0.525	ppbv		96
64) n-propylbenzene	10.985	120	14030	0.528	ppbv		95
65) tert-Butylbenzene	11.526	119	53115	0.557	ppbv		100
66) Benzyl Chloride	11.613	91	5263	0.520	ppbv		97
67) sec-Butylbenzene	11.762	105	72879	0.550	ppbv		98
69) p-Isopropyltoluene	11.921	119	61933	0.542	ppbv		100
70) n-Butylbenzene	12.277	91	61507	0.527	ppbv		99
71) 2-Chlorotoluene	10.895	91	41637	0.520	ppbv		95
72) 4-Ethyltoluene	11.121	105	44473	0.518	ppbv	#	94
73) 1,3,5-Trimethylbenzene	11.199	105	39190	0.523	ppbv		97
74) 1,2,4-Trimethylbenzene	11.532	105	48370	0.560	ppbv		97
75) 1,3-Dichlorobenzene	11.600	146	25122	0.530	ppbv		100
76) 1,4-Dichlorobenzene	11.668	146	24991	0.530	ppbv		97
77) 1,2-Dichlorobenzene	11.943	146	24548	0.532	ppbv		96
78) Hexachloro-1,3-Butadiene	13.879	225	25636	0.546	ppbv		99
79) Naphthalene	13.510	128	47990	0.508	ppbv		95
80) Naphthalene,2-methyl-	14.458	142	17486	0.380	ppbv		98
81) 1,2,4-Trichlorobenzene	13.436	180	19924	0.457	ppbv		97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

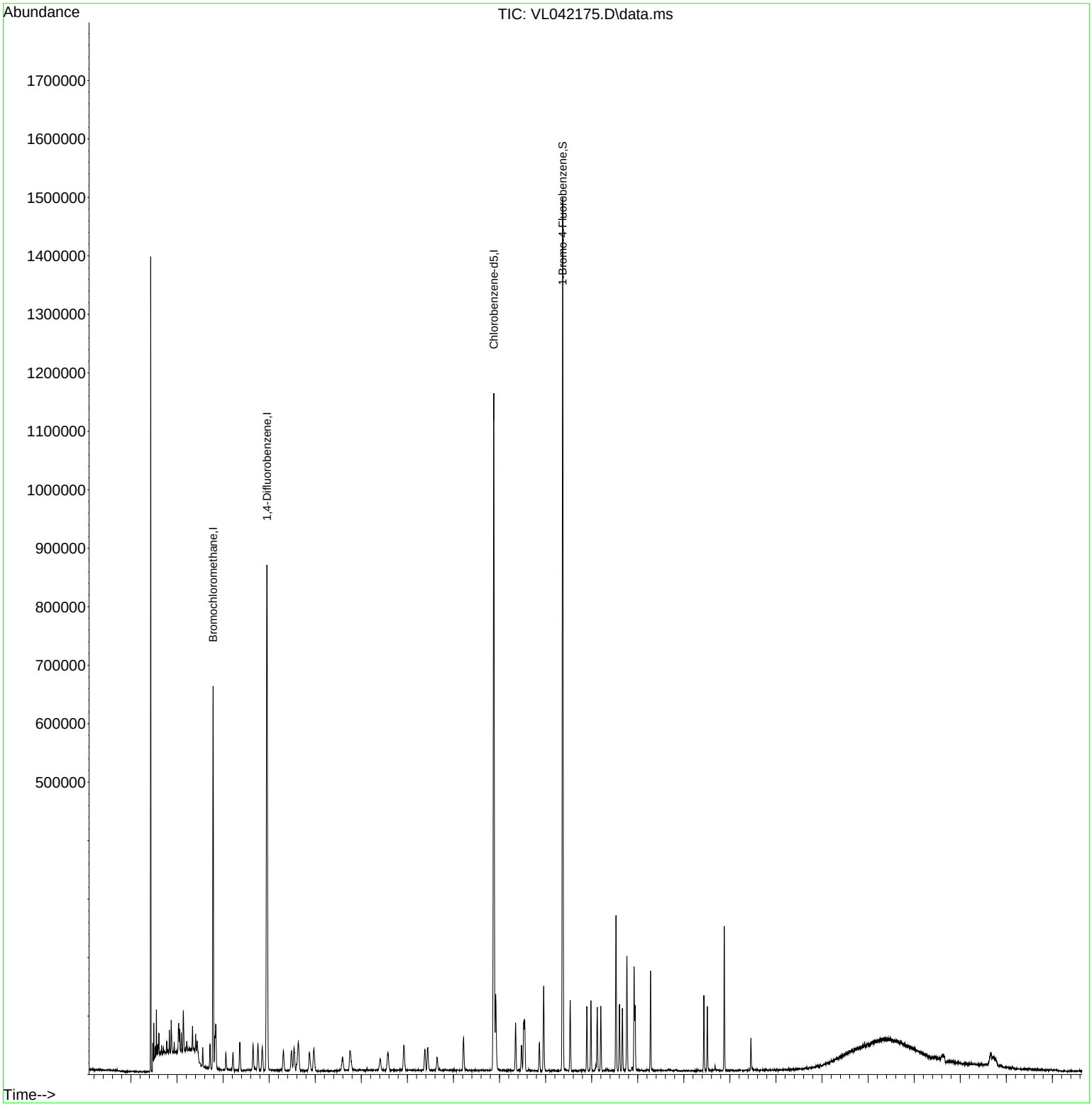
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
Data File : VL042175.D
Acq On : 27 Mar 2025 10:01
Operator : SY/MD
Sample : VSTDICC0.5
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 28 01:34:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Mar 28 01:31:23 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
Data File : VL042176.D
Acq On : 27 Mar 2025 10:32
Operator : SY/MD
Sample : VSTDICC0.1
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 28 01:35:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2
QLast Update : Fri Mar 28 01:31:23 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.787	49	180740	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.955	114	528028	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.878	117	481506	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	398069	10.067	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 100.700%			
Target Compounds						Qvalue
5) Vinyl Chloride	1.580	62	1274	0.115	ppbv	# 42
32) 1,1,1-Trichloroethane	3.366	97	4509m	0.106	ppbv	
35) Carbon Tetrachloride	3.768	117	4131m	0.102	ppbv	
38) Trichloroethene	4.551	130	2306m	0.106	ppbv	
52) Tetrachloroethene	8.225	164	1895m	0.091	ppbv	
54) 1,2-Dibromoethane	7.652	107	3033m	0.108	ppbv	
63) 1,1,2,2-Tetrachloroethane	9.966	83	3852m	0.093	ppbv	
79) Naphthalene	13.513	128	7882	0.084	ppbv	# 92

(#) = qualifier out of range (m) = manual integration (+) = signals summed

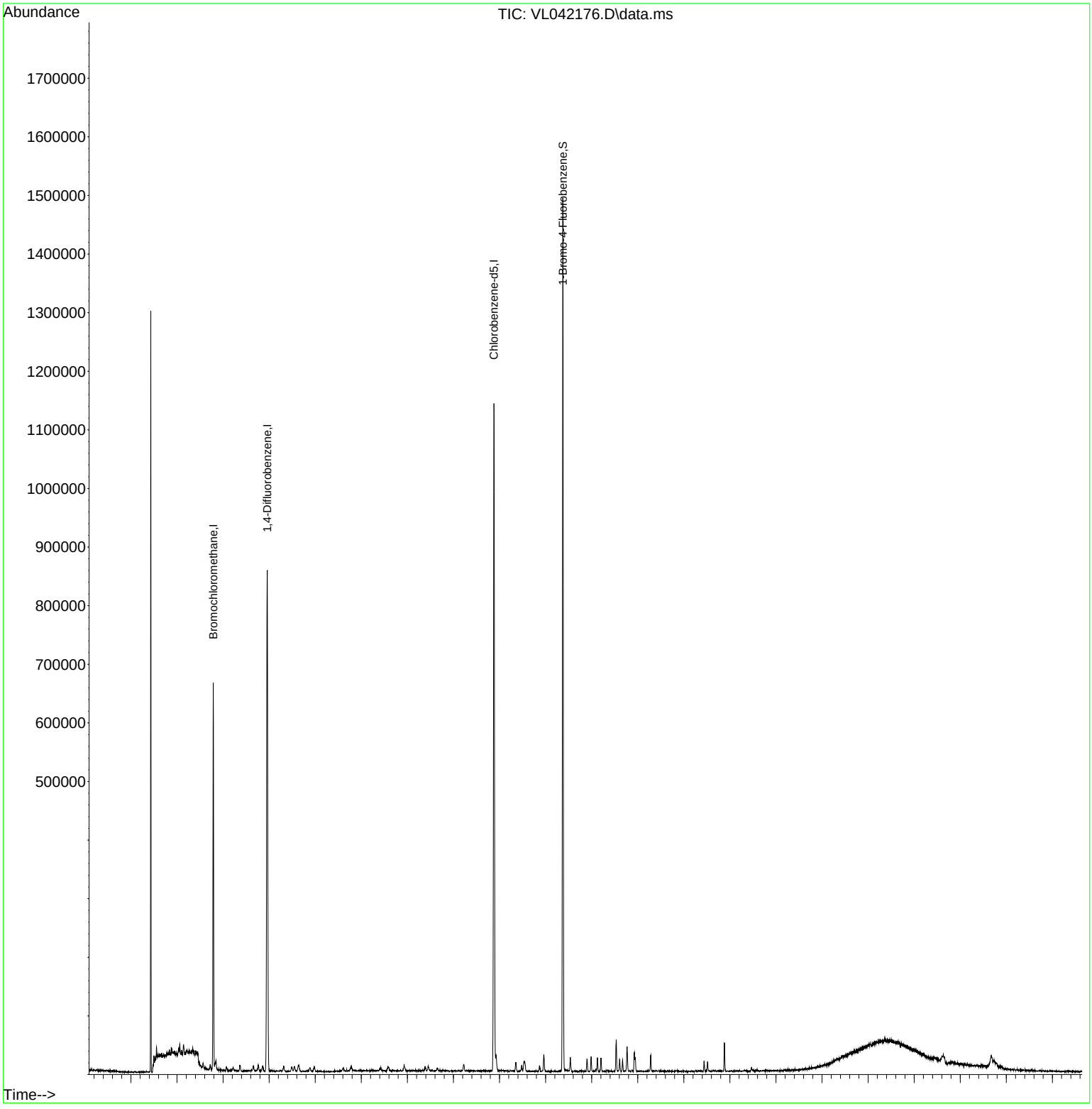
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
Data File : VL042176.D
Acq On : 27 Mar 2025 10:32
Operator : SY/MD
Sample : VSTDICC0.1
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 28 01:35:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Mar 28 01:31:23 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
Data File : VL042177.D
Acq On : 27 Mar 2025 11:03
Operator : SY/MD
Sample : VSTDICC0.03
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 28 01:36:24 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2
QLast Update : Fri Mar 28 01:31:23 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.787	49	178058	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.955	114	512915	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.878	117	475617	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	389935	9.983	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 99.800%			
Target Compounds						Qvalue
5) Vinyl Chloride	1.580	62	471m	0.043	ppbv	
32) 1,1,1-Trichloroethane	3.366	97	1683m	0.040	ppbv	
35) Carbon Tetrachloride	3.758	117	1645m	0.042	ppbv	
38) Trichloroethene	4.541	130	712m	0.034	ppbv	
52) Tetrachloroethene	8.208	164	880m	0.044	ppbv	
63) 1,1,2,2-Tetrachloroethane	9.963	83	1407m	0.034	ppbv	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

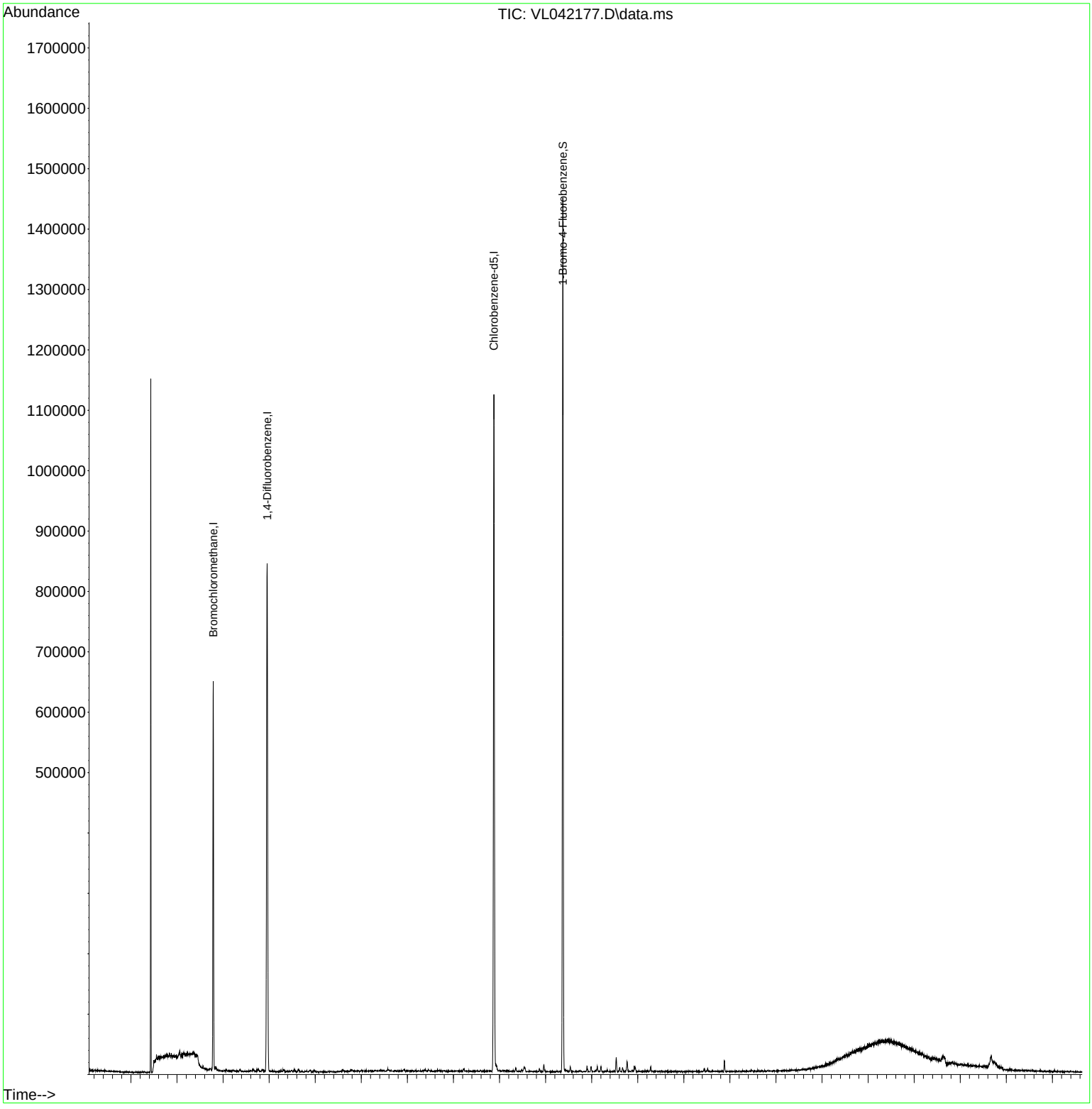
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
Data File : VL042177.D
Acq On : 27 Mar 2025 11:03
Operator : SY/MD
Sample : VSTDICC0.03
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 28 01:36:24 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Mar 28 01:31:23 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
Data File : VL042178.D
Acq On : 27 Mar 2025 11:36
Operator : SY/MD
Sample : VSTDICC015
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 28 01:37:01 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2
QLast Update : Fri Mar 28 01:31:23 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.784	49	173372	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.952	114	499360	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.878	117	473077	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.374	95	387777	9.981	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 99.800%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.495	85	358962	14.023	ppbv		99
3) Chlorodifluoromethane	1.473	51	366164	14.002	ppbv		98
4) Chloromethane	1.531	50	148133	14.160	ppbv		98
5) Vinyl Chloride	1.576	62	141938	13.304	ppbv		97
6) Bromomethane	1.667	94	65113	13.734	ppbv		99
7) Chloroethane	1.703	64	58820	14.007	ppbv		99
8) Dichlorotetrafluoroethane	1.550	85	314834	14.442	ppbv		98
9) Propene	1.482	41	163799	13.902	ppbv		95
10) Heptane	4.972	43	446949	14.019	ppbv		99
11) Trichlorofluoromethane	1.874	101	349967	14.050	ppbv		98
12) 1,1,2-Trichlorotrifluo...	2.136	101	295217	14.419	ppbv		99
13) Ethanol	1.719	45	7382	8.001	ppbv		92
14) Bromoethene	1.780	108	106436	13.571	ppbv		98
15) Acetone	1.832	43	296254	12.218	ppbv		98
16) 1,3-Butadiene	1.605	39	150122	13.766	ppbv		100
17) tert-Butyl alcohol	2.039	59	416362	13.787	ppbv		99
18) 1,1-Dichloroethene	2.029	96	131720	13.762	ppbv		99
19) Isopropyl Alcohol	1.884	45	179117	13.093	ppbv		100
20) Methylene Chloride	2.059	84	113183	12.533	ppbv		95
21) Allyl Chloride	2.094	41	239440	14.002	ppbv		99
22) trans-1,2-Dichloroethene	2.337	96	149455	13.362	ppbv		98
23) Vinyl Acetate	2.460	43	138419	13.736	ppbv	#	96
24) 1,1-Dichloroethane	2.405	63	298760	14.570	ppbv		99
25) Ethyl Acetate	2.832	43	871882	13.855	ppbv		100
26) Hexane	2.822	57	344636	14.178	ppbv		98
27) Carbon Disulfide	2.146	76	370022	14.196	ppbv		97
28) Methyl tert-Butyl Ether	2.437	73	216463	14.303	ppbv		95
29) Chloroform	2.845	83	508614	14.297	ppbv		100
30) Cyclohexane	3.852	84	296458	14.040	ppbv		99
31) cis-1,2-Dichloroethene	2.719	61	351945	14.262	ppbv		97
32) 1,1,1-Trichloroethane	3.363	97	547329	13.448	ppbv		99
34) 2-Butanone	2.554	43	497020	13.726	ppbv		99
35) Carbon Tetrachloride	3.758	117	543385	14.140	ppbv		100
36) Benzene	3.651	78	699549	14.131	ppbv		98
37) 1,2-Dichloroethane	3.214	62	416544	14.697	ppbv		99
38) Trichloroethene	4.541	130	283430	13.715	ppbv		98
39) 1,2-Dichloropropane	4.308	63	257891	14.304	ppbv		99
40) 1,4-Dioxane	4.577	88	124925	13.354	ppbv	#	91
41) Tetrahydrofuran	3.049	42	294634	14.301	ppbv		100
42) Bromodichloromethane	4.483	83	587772	15.043	ppbv		99
43) Methyl Methacrylate	4.874	69	295300	14.130	ppbv		99
44) 2,2,4-Trimethylpentane	4.635	57	1180275	14.108	ppbv		99
45) t-1,3-Dichloropropene	6.405	75	329360	14.649	ppbv		96

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
Data File : VL042178.D
Acq On : 27 Mar 2025 11:36
Operator : SY/MD
Sample : VSTDICC015
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 28 01:37:01 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2
QLast Update : Fri Mar 28 01:31:23 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46)	cis-1,3-Dichloropropene	5.593	75	400813	14.542	ppbv		98
47)	1,1,2-Trichloroethane	6.577	97	273137	14.331	ppbv		98
48)	Dibromochloromethane	7.383	129	482431	14.936	ppbv		100
49)	Bromoform	9.480	173	427143	14.730	ppbv		99
50)	4-Methyl-2-Pentanone	5.745	43	755146	13.155	ppbv		99
51)	2-Hexanone	7.431	43	619419	13.005	ppbv	#	99
52)	Tetrachloroethene	8.221	164	258356	13.159	ppbv		95
53)	Toluene	6.926	91	829648	14.137	ppbv		100
54)	1,2-Dibromoethane	7.645	107	381823	14.359	ppbv		97
56)	1,1,1,2-Tetrachloroethane	8.920	131	365410	14.032	ppbv		99
57)	Chlorobenzene	8.917	112	618201	13.777	ppbv		100
58)	Ethyl Benzene	9.351	91	1167096	13.889	ppbv		97
59)	m/p-Xylene	9.548	91	1857561m	27.651	ppbv		
60)	o-Xylene	9.962	91	913234	13.577	ppbv		99
61)	Styrene	9.865	104	474195	14.250	ppbv		99
62)	Isopropylbenzene	10.535	105	1362416	13.544	ppbv		99
63)	1,1,2,2-Tetrachloroethane	9.959	83	551386	13.491	ppbv		99
64)	n-propylbenzene	10.985	120	356118	13.753	ppbv		94
65)	tert-Butylbenzene	11.529	119	1200149	12.901	ppbv		98
66)	Benzyl Chloride	11.613	91	134397	13.615	ppbv		100
67)	sec-Butylbenzene	11.765	105	1643629	12.711	ppbv		99
69)	p-Isopropyltoluene	11.924	119	1437016	12.906	ppbv		98
70)	n-Butylbenzene	12.280	91	1477443	12.975	ppbv		99
71)	2-Chlorotoluene	10.898	91	1071432	13.724	ppbv		99
72)	4-Ethyltoluene	11.121	105	1136415	13.569	ppbv		99
73)	1,3,5-Trimethylbenzene	11.202	105	979783	13.395	ppbv		99
74)	1,2,4-Trimethylbenzene	11.535	105	1048874	12.447	ppbv		92
75)	1,3-Dichlorobenzene	11.607	146	626015	13.545	ppbv		99
76)	1,4-Dichlorobenzene	11.668	146	628694	13.668	ppbv		100
77)	1,2-Dichlorobenzene	11.947	146	602844	13.396	ppbv		100
78)	Hexachloro-1,3-Butadiene	13.882	225	556392	12.147	ppbv		99
79)	Naphthalene	13.513	128	1258479	13.653	ppbv		98
80)	Naphthalene,2-methyl-	14.455	142	718900	16.018	ppbv		98
81)	1,2,4-Trichlorobenzene	13.439	180	598416	14.075	ppbv		99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

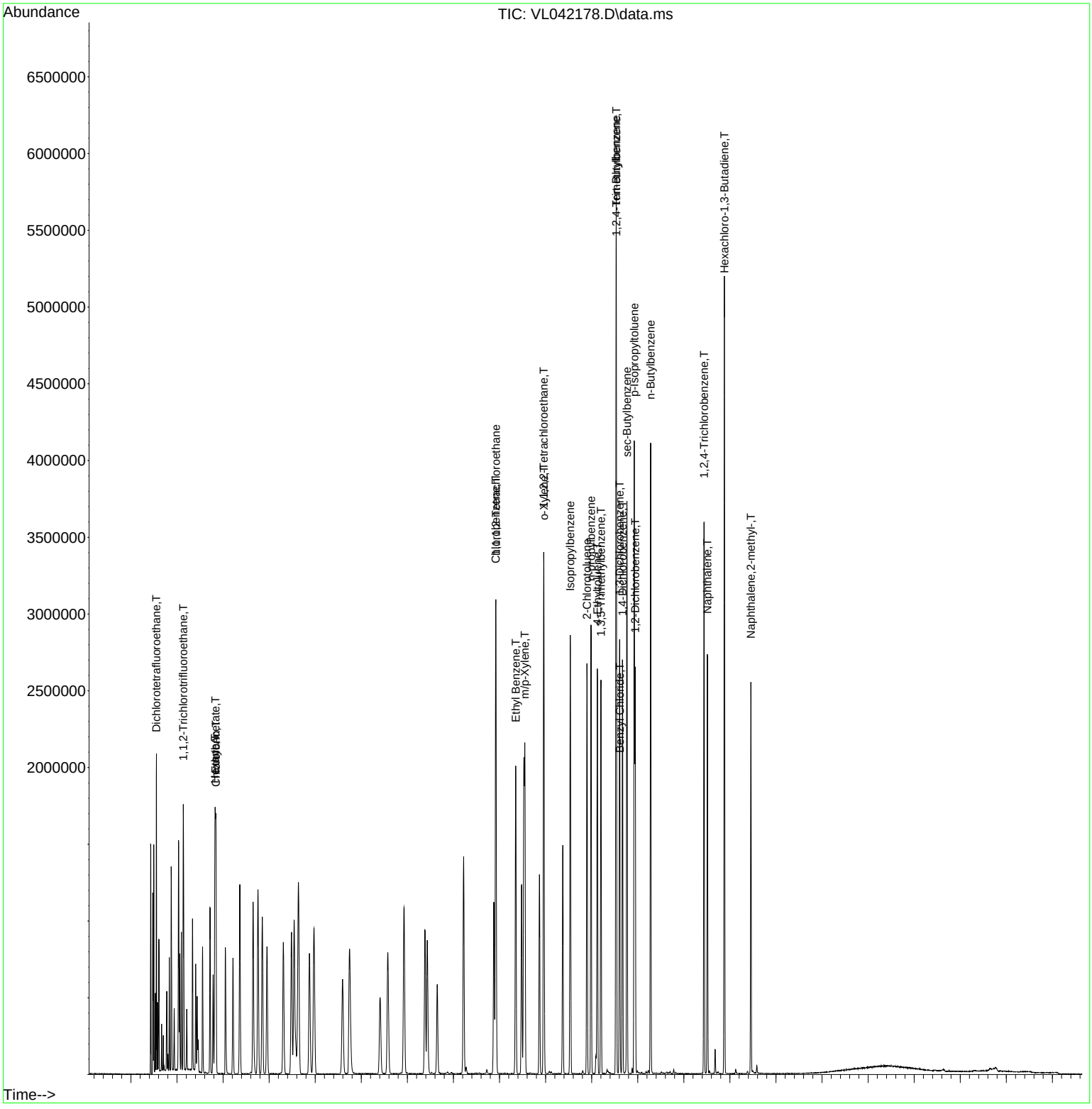
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
Data File : VL042178.D
Acq On : 27 Mar 2025 11:36
Operator : SY/MD
Sample : VSTDICC015
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 28 01:37:01 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Mar 28 01:31:23 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
Data File : VL042179.D
Acq On : 27 Mar 2025 12:23
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 28 02:05:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
ICVVL032725

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.784	49	174350	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	498105	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.878	117	473357	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	379929	9.774	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 97.700%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.496	85	245714	9.545	ppbv	100
3) Chlorodifluoromethane	1.473	51	247046	9.394	ppbv	97
4) Chloromethane	1.531	50	98527	9.365	ppbv	98
5) Vinyl Chloride	1.577	62	95578	8.573	ppbv	97
6) Bromomethane	1.667	94	41950	8.799	ppbv	97
7) Chloroethane	1.703	64	37400	8.856	ppbv	94
8) Dichlorotetrafluoroethane	1.551	85	213819	9.753	ppbv	95
9) Propene	1.483	41	105338	8.739	ppbv	99
10) Heptane	4.972	43	298768	9.318	ppbv	100
11) Trichlorofluoromethane	1.874	101	236793	9.453	ppbv	97
12) 1,1,2-Trichlorotrifluo...	2.136	101	193965	9.421	ppbv	98
13) Ethanol	1.719	45	5773	5.066	ppbv	97
14) Bromoethene	1.780	108	73572	9.328	ppbv	97
15) Acetone	1.832	43	198300	8.132	ppbv	98
16) 1,3-Butadiene	1.606	39	97840	8.216	ppbv	99
17) tert-Butyl alcohol	2.039	59	276195	9.094	ppbv	99
18) 1,1-Dichloroethene	2.033	96	87137	9.053	ppbv	89
19) Isopropyl Alcohol	1.884	45	122768	8.923	ppbv	98
20) Methylene Chloride	2.059	84	72813	8.018	ppbv	97
21) Allyl Chloride	2.094	41	157418	9.154	ppbv	99
22) trans-1,2-Dichloroethene	2.337	96	101141	9.092	ppbv	93
23) Vinyl Acetate	2.460	43	90260	8.553	ppbv #	97
24) 1,1-Dichloroethane	2.405	63	197968	9.600	ppbv	99
25) Ethyl Acetate	2.832	43	592585	9.364	ppbv	99
26) Hexane	2.823	57	231125	9.455	ppbv	99
27) Carbon Disulfide	2.146	76	248834	9.493	ppbv	97
28) Methyl tert-Butyl Ether	2.437	73	146470	9.624	ppbv	95
29) Chloroform	2.845	83	344106	9.619	ppbv	100
30) Cyclohexane	3.852	84	197897	9.323	ppbv	98
31) cis-1,2-Dichloroethene	2.719	61	234487	9.449	ppbv	96
32) 1,1,1-Trichloroethane	3.363	97	365364	8.921	ppbv	99
34) 2-Butanone	2.554	43	331236	9.171	ppbv	99
35) Carbon Tetrachloride	3.758	117	363392	9.339	ppbv	98
36) Benzene	3.651	78	461261	9.341	ppbv	99
37) 1,2-Dichloroethane	3.217	62	273559	9.676	ppbv	99
38) Trichloroethene	4.541	130	191746	9.306	ppbv	97
39) 1,2-Dichloropropane	4.311	63	170839	9.500	ppbv	95
40) 1,4-Dioxane	4.577	88	80592	8.443	ppbv #	97
41) Tetrahydrofuran	3.052	42	196163	9.431	ppbv	99
42) Bromodichloromethane	4.486	83	384006	9.853	ppbv	100
43) Methyl Methacrylate	4.878	69	195339	9.344	ppbv	99
44) 2,2,4-Trimethylpentane	4.635	57	787400	9.436	ppbv	99
45) t-1,3-Dichloropropene	6.409	75	212335	9.467	ppbv	99

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
Data File : VL042179.D
Acq On : 27 Mar 2025 12:23
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 28 02:05:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
ICVVL032725

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) cis-1,3-Dichloropropene	5.593	75	265101	9.643	ppbv		98
47) 1,1,2-Trichloroethane	6.577	97	183228	9.638	ppbv		98
48) Dibromochloromethane	7.383	129	322766	10.018	ppbv		100
49) Bromoform	9.480	173	285149	9.858	ppbv		99
50) 4-Methyl-2-Pentanone	5.749	43	500791	8.749	ppbv		99
51) 2-Hexanone	7.432	43	410889	8.741	ppbv	#	99
52) Tetrachloroethene	8.221	164	173420	8.855	ppbv		93
53) Toluene	6.927	91	556897	9.514	ppbv		99
54) 1,2-Dibromoethane	7.645	107	256930	9.695	ppbv		98
56) 1,1,1,2-Tetrachloroethane	8.920	131	249270	9.567	ppbv		99
57) Chlorobenzene	8.917	112	422531	9.411	ppbv		98
58) Ethyl Benzene	9.351	91	791360	9.412	ppbv		98
59) m/p-Xylene	9.548	91	1260340m	18.772	ppbv		
60) o-Xylene	9.959	91	632918	9.404	ppbv		99
61) Styrene	9.866	104	315910	9.488	ppbv		99
62) Isopropylbenzene	10.539	105	944938	9.388	ppbv		100
63) 1,1,2,2-Tetrachloroethane	9.959	83	382635	9.357	ppbv		99
64) n-propylbenzene	10.985	120	244547	9.439	ppbv		98
65) tert-Butylbenzene	11.529	119	843828	9.065	ppbv		98
66) Benzyl Chloride	11.613	91	86804	8.789	ppbv		97
67) sec-Butylbenzene	11.765	105	1172636	9.063	ppbv		100
69) p-Isopropyltoluene	11.924	119	1019694	9.153	ppbv		100
70) n-Butylbenzene	12.280	91	1038548	9.115	ppbv		100
71) 2-Chlorotoluene	10.898	91	732874	9.382	ppbv		100
72) 4-Ethyltoluene	11.125	105	785185	9.370	ppbv		99
73) 1,3,5-Trimethylbenzene	11.202	105	673541	9.203	ppbv		98
74) 1,2,4-Trimethylbenzene	11.536	105	729155	8.648	ppbv		94
75) 1,3-Dichlorobenzene	11.607	146	426573	9.224	ppbv		99
76) 1,4-Dichlorobenzene	11.672	146	426318	9.263	ppbv		100
77) 1,2-Dichlorobenzene	11.947	146	412180	9.154	ppbv		99
78) Hexachloro-1,3-Butadiene	13.882	225	356386	7.776	ppbv		100
79) Naphthalene	13.513	128	773311	8.385	ppbv		99
80) Naphthalene,2-methyl-	14.455	142	323443	7.151	ppbv		99
81) 1,2,4-Trichlorobenzene	13.439	180	363863	8.553	ppbv		98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

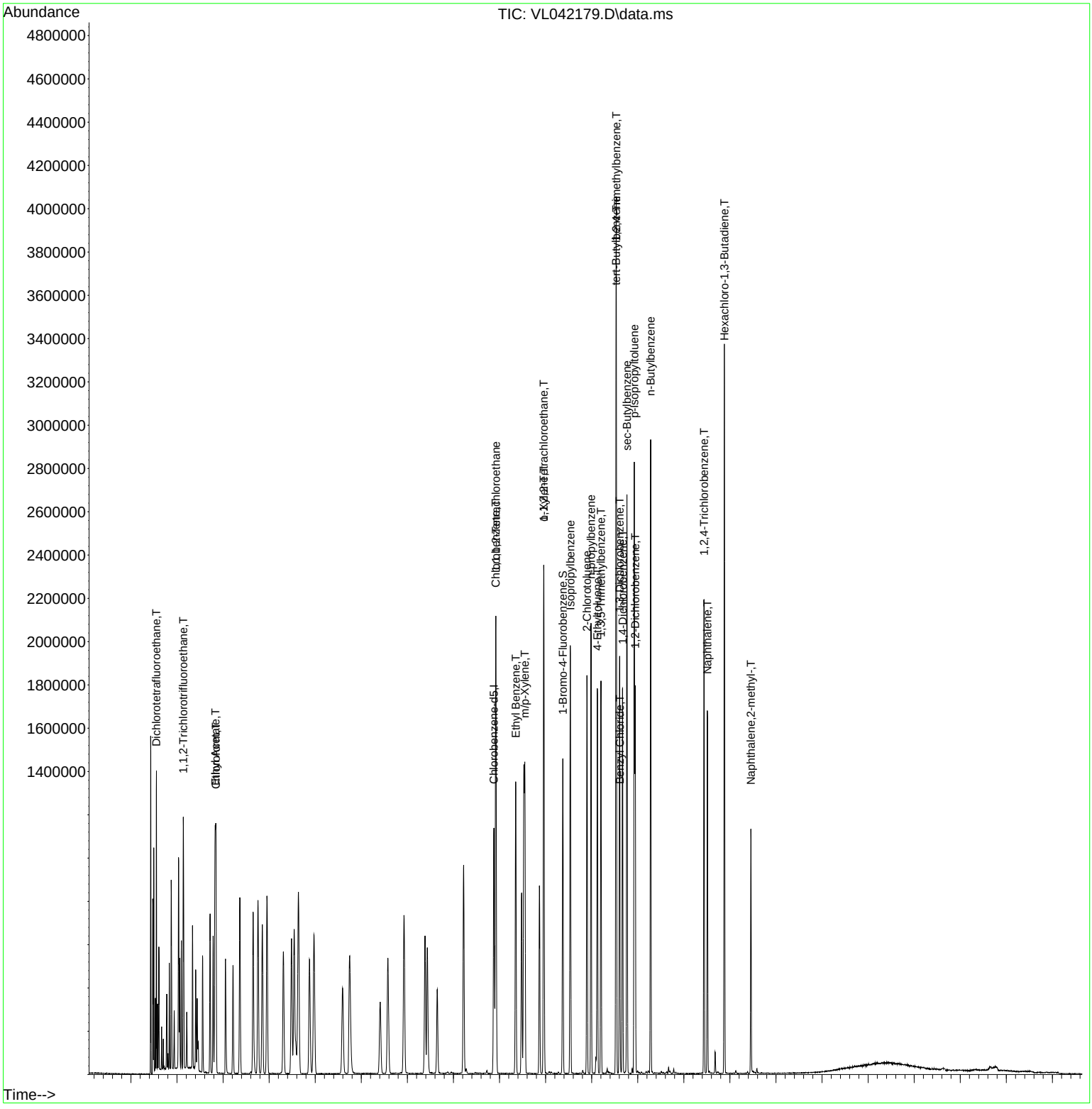
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
Data File : VL042179.D
Acq On : 27 Mar 2025 12:23
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 28 02:05:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
ICVVL032725

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
Data File : VL042179.D
Acq On : 27 Mar 2025 12:23
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
ICVVL032725

Quant Time: Mar 28 02:05:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Mar 28 02:00:52 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	1.476	1.409	4.5	94	0.00
3		Chlorodifluoromethane	1.508	1.417	6.0	91	0.00
4		Chloromethane	0.603	0.565	6.3	92	0.00
5	T	Vinyl Chloride	0.639	0.548	14.2	93	0.00
6	T	Bromomethane	0.273	0.241	11.7	87	0.00
7		Chloroethane	0.242	0.215	11.2	88	0.00
8	T	Dichlorotetrafluoroethane	1.257	1.226	2.5	94	0.00
9	T	Propene	0.691	0.604	12.6	85	0.00
10	T	Heptane	1.839	1.714	6.8	89	0.00
11	T	Trichlorofluoromethane	1.437	1.358	5.5	95	0.00
12	T	1,1,2-Trichlorotrifluoroeth	1.181	1.113	5.8	93	0.00
13		Ethanol	0.065	0.033#	49.2#	108	0.00
14	T	Bromoethene	0.452	0.422	6.6	94	0.00
15	T	Acetone	1.399	1.137	18.7	95	0.00
16	T	1,3-Butadiene	0.683	0.561	17.9	91	0.00
17		tert-Butyl alcohol	1.742	1.584	9.1	91	0.00
18	T	1,1-Dichloroethene	0.552	0.500	9.4	92	0.00
19	T	Isopropyl Alcohol	0.789	0.704	10.8	93	0.00
20	T	Methylene Chloride	0.521	0.418	19.8	89	0.00
21	T	Allyl Chloride	0.986	0.903	8.4	93	0.00
22	T	trans-1,2-Dichloroethene	0.638	0.580	9.1	92	0.00
23	T	Vinyl Acetate	0.605	0.518	14.4	97	0.00
24	T	1,1-Dichloroethane	1.183	1.135	4.1	94	0.00
25	T	Ethyl Acetate	3.630	3.399	6.4	92	0.00
26	T	Hexane	1.402	1.326	5.4	93	0.00
27	T	Carbon Disulfide	1.503	1.427	5.1	93	0.00
28	T	Methyl tert-Butyl Ether	0.873	0.840	3.8	94	0.00
29	T	Chloroform	2.052	1.974	3.8	95	0.00
30	T	Cyclohexane	1.217	1.135	6.7	91	0.00
31	T	cis-1,2-Dichloroethene	1.423	1.345	5.5	91	0.00
32	T	1,1,1-Trichloroethane	2.349	2.096	10.8	95	0.00
33	I	1,4-Difluorobenzene	1.000	1.000	0.0	91	0.00
34	T	2-Butanone	0.725	0.665	8.3	91	0.00
35	T	Carbon Tetrachloride	0.781	0.730	6.5	95	0.00
36	T	Benzene	0.991	0.926	6.6	91	0.00
37	T	1,2-Dichloroethane	0.568	0.549	3.3	93	0.00
38	T	Trichloroethene	0.414	0.385	7.0	94	0.00
39	T	1,2-Dichloropropane	0.361	0.343	5.0	93	0.00
40	T	1,4-Dioxane	0.192	0.162	15.6	87	0.00
41	T	Tetrahydrofuran	0.418	0.394	5.7	90	0.00
42	T	Bromodichloromethane	0.782	0.771	1.4	92	0.00
43		Methyl Methacrylate	0.420	0.392	6.7	89	0.00
44	T	2,2,4-Trimethylpentane	1.675	1.581	5.6	90	0.00
45	T	t-1,3-Dichloropropene	0.450	0.426	5.3	89	0.00
46	T	cis-1,3-Dichloropropene	0.552	0.532	3.6	88	0.00
47	T	1,1,2-Trichloroethane	0.382	0.368	3.7	92	0.00
48	T	Dibromochloromethane	0.647	0.648	-0.2	93	0.00

Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
Data File : VL042179.D
Acq On : 27 Mar 2025 12:23
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
ICVVL032725

Quant Time: Mar 28 02:05:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Mar 28 02:00:52 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	0.581	0.572	1.5	90	0.00
50	T	4-Methyl-2-Pentanone	1.149	1.005	12.5	89	0.00
51	T	2-Hexanone	0.944	0.825	12.6	89	0.00
52	T	Tetrachloroethene	0.393	0.348	11.5	93	0.00
53	T	Toluene	1.175	1.118	4.9	91	0.00
54	T	1,2-Dibromoethane	0.532	0.516	3.0	93	0.00
55	I	Chlorobenzene-d5	1.000	1.000	0.0	91	0.00
56		1,1,1,2-Tetrachloroethane	0.550	0.527	4.2	94	0.00
57	T	Chlorobenzene	0.949	0.893	5.9	93	0.00
58	T	Ethyl Benzene	1.776	1.672	5.9	91	0.00
59	T	m/p-Xylene	1.418	1.331	6.1	92	0.00
60	T	o-Xylene	1.422	1.337	6.0	92	0.00
61	T	Styrene	0.703	0.667	5.1	89	0.00
62		Isopropylbenzene	2.126	1.996	6.1	93	0.00
63	T	1,1,2,2-Tetrachloroethane	0.864	0.808	6.5	93	0.00
64		n-propylbenzene	0.547	0.517	5.5	94	0.00
65		tert-Butylbenzene	1.966	1.783	9.3	94	0.00
66	T	Benzyl Chloride	0.209	0.183	12.4	82	0.00
67		sec-Butylbenzene	2.733	2.477	9.4	94	0.00
68	S	1-Bromo-4-Fluorobenzene	0.821	0.803	2.2	90	0.00
69		p-Isopropyltoluene	2.354	2.154	8.5	94	0.00
70		n-Butylbenzene	2.407	2.194	8.8	94	0.00
71		2-Chlorotoluene	1.650	1.548	6.2	92	0.00
72	T	4-Ethyltoluene	1.770	1.659	6.3	93	0.00
73	T	1,3,5-Trimethylbenzene	1.546	1.423	8.0	93	0.00
74	T	1,2,4-Trimethylbenzene	1.781	1.540	13.5	93	0.00
75	T	1,3-Dichlorobenzene	0.977	0.901	7.8	93	0.00
76	T	1,4-Dichlorobenzene	0.972	0.901	7.3	92	0.00
77	T	1,2-Dichlorobenzene	0.951	0.871	8.4	93	0.00
78	T	Hexachloro-1,3-Butadiene	0.968	0.753	22.2	86	0.00
79	T	Naphthalene	1.948	1.634	16.1	82	0.00
80	T	Naphthalene,2-methyl-	0.955	0.683	28.5	63	0.00
81	T	1,2,4-Trichlorobenzene	0.899	0.769	14.5	82	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT/LSC Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
Data File : VL042180.D
Acq On : 27 Mar 2025 13:50
Operator : SY/MD
Sample : VL0327ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0327ABL01

Quant Time: Mar 28 02:12:10 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration

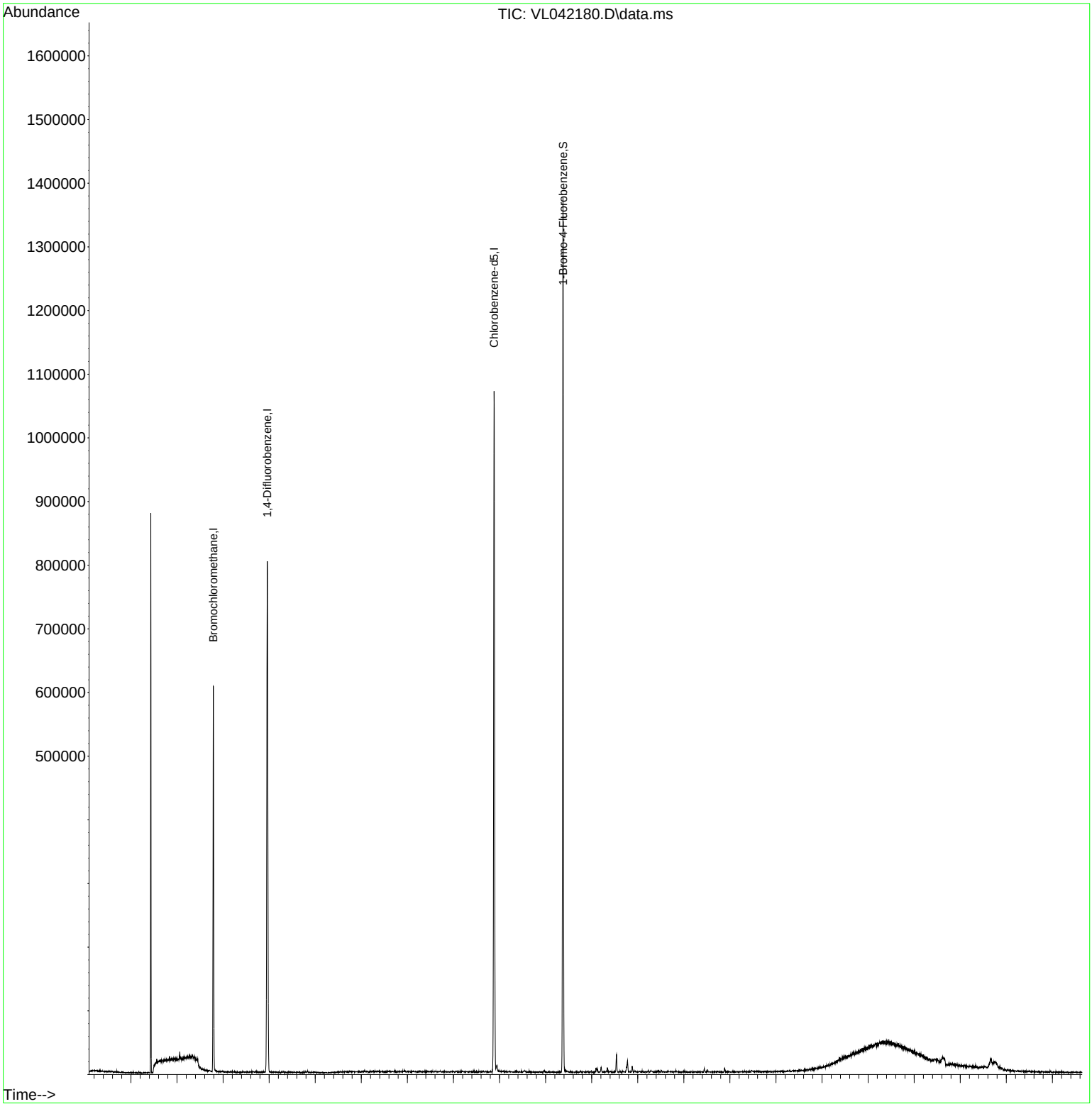
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.787	49	170921	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	483563	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.881	117	446480	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	364194	9.933	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 99.300%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
Data File : VL042180.D
Acq On : 27 Mar 2025 13:50
Operator : SY/MD
Sample : VL0327ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0327ABL01

Quant Time: Mar 28 02:12:10 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
Data File : VL042181.D
Acq On : 27 Mar 2025 14:39
Operator : SY/MD
Sample : VL0327ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 28 02:12:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VL0327ABS01

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.787	49	166105	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.955	114	483209	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.881	117	452250	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	368941	9.934	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 99.300%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	243063	9.911	ppbv	100
3) Chlorodifluoromethane	1.476	51	241481	9.638	ppbv	99
4) Chloromethane	1.531	50	96241	9.602	ppbv	99
5) Vinyl Chloride	1.580	62	91865	8.649	ppbv	94
6) Bromomethane	1.667	94	40361	8.886	ppbv	92
7) Chloroethane	1.703	64	37307	9.273	ppbv	100
8) Dichlorotetrafluoroethane	1.554	85	208981	10.006	ppbv	94
9) Propene	1.482	41	102862	8.957	ppbv	99
10) Heptane	4.978	43	290621	9.514	ppbv	100
11) Trichlorofluoromethane	1.877	101	232086	9.725	ppbv	95
12) 1,1,2-Trichlorotrifluo...	2.140	101	178792	9.115	ppbv	99
13) Ethanol	1.719	45	5124	4.720	ppbv	93
14) Bromoethene	1.780	108	69775	9.286	ppbv	98
15) Acetone	1.835	43	195717	8.425	ppbv	96
16) 1,3-Butadiene	1.609	39	98877	8.716	ppbv	100
17) tert-Butyl alcohol	2.039	59	266424	9.208	ppbv	98
18) 1,1-Dichloroethene	2.033	96	83339	9.088	ppbv	95
19) Isopropyl Alcohol	1.884	45	120986	9.230	ppbv	97
20) Methylene Chloride	2.062	84	69930	8.083	ppbv	96
21) Allyl Chloride	2.094	41	147810	9.022	ppbv	99
22) trans-1,2-Dichloroethene	2.340	96	96616	9.116	ppbv	99
23) Vinyl Acetate	2.463	43	94696	9.418	ppbv	96
24) 1,1-Dichloroethane	2.408	63	189793	9.661	ppbv	99
25) Ethyl Acetate	2.835	43	574442	9.528	ppbv	99
26) Hexane	2.826	57	224704	9.649	ppbv	98
27) Carbon Disulfide	2.149	76	230410	9.226	ppbv #	94
28) Methyl tert-Butyl Ether	2.441	73	149961	10.342	ppbv	95
29) Chloroform	2.848	83	336404	9.870	ppbv	96
30) Cyclohexane	3.855	84	194220	9.604	ppbv	98
31) cis-1,2-Dichloroethene	2.719	61	231151	9.777	ppbv	97
32) 1,1,1-Trichloroethane	3.366	97	359860	9.223	ppbv	99
34) 2-Butanone	2.557	43	320843	9.157	ppbv	100
35) Carbon Tetrachloride	3.761	117	361037	9.565	ppbv	99
36) Benzene	3.658	78	452718	9.450	ppbv	98
37) 1,2-Dichloroethane	3.217	62	277247	10.109	ppbv	98
38) Trichloroethene	4.548	130	187209	9.366	ppbv	98
39) 1,2-Dichloropropane	4.315	63	164374	9.422	ppbv	95
40) 1,4-Dioxane	4.583	88	82012	8.857	ppbv #	92
41) Tetrahydrofuran	3.052	42	188907	9.362	ppbv	99
42) Bromodichloromethane	4.489	83	377092	9.974	ppbv	98
43) Methyl Methacrylate	4.881	69	190156	9.377	ppbv	100
44) 2,2,4-Trimethylpentane	4.638	57	769803	9.509	ppbv	99
45) t-1,3-Dichloropropene	6.415	75	204004	9.376	ppbv	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
Data File : VL042181.D
Acq On : 27 Mar 2025 14:39
Operator : SY/MD
Sample : VL0327ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 28 02:12:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VL0327ABS01

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.599	75	251694	9.437	ppbv	97
47) 1,1,2-Trichloroethane	6.583	97	175509	9.517	ppbv	99
48) Dibromochloromethane	7.386	129	310158	9.923	ppbv	99
49) Bromoform	9.483	173	279382	9.957	ppbv	99
50) 4-Methyl-2-Pentanone	5.748	43	481919	8.679	ppbv	98
51) 2-Hexanone	7.435	43	395520	8.674	ppbv	99
52) Tetrachloroethene	8.224	164	167015	8.791	ppbv	95
53) Toluene	6.930	91	540612	9.520	ppbv	99
54) 1,2-Dibromoethane	7.655	107	246519	9.589	ppbv	99
56) 1,1,1,2-Tetrachloroethane	8.924	131	240905	9.677	ppbv	96
57) Chlorobenzene	8.920	112	407816	9.507	ppbv	98
58) Ethyl Benzene	9.354	91	769818	9.583	ppbv	97
59) m/p-Xylene	9.551	91	1220553m	19.028	ppbv	
60) o-Xylene	9.962	91	612011	9.518	ppbv	98
61) Styrene	9.869	104	306658	9.639	ppbv	99
62) Isopropylbenzene	10.539	105	923163	9.600	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.962	83	370486	9.483	ppbv	99
64) n-propylbenzene	10.989	120	239652	9.682	ppbv	98
65) tert-Butylbenzene	11.532	119	828438	9.315	ppbv	98
66) Benzyl Chloride	11.616	91	81404	8.627	ppbv	98
67) sec-Butylbenzene	11.769	105	1155378	9.347	ppbv	99
69) p-Isopropyltoluene	11.927	119	1011573	9.503	ppbv	99
70) n-Butylbenzene	12.283	91	1022935	9.397	ppbv	99
71) 2-Chlorotoluene	10.901	91	713648	9.562	ppbv	98
72) 4-Ethyltoluene	11.128	105	766720	9.576	ppbv	100
73) 1,3,5-Trimethylbenzene	11.205	105	660905	9.451	ppbv	99
74) 1,2,4-Trimethylbenzene	11.539	105	718683	8.921	ppbv	97
75) 1,3-Dichlorobenzene	11.610	146	415378	9.401	ppbv	100
76) 1,4-Dichlorobenzene	11.671	146	418670	9.521	ppbv	99
77) 1,2-Dichlorobenzene	11.947	146	401634	9.336	ppbv	99
78) Hexachloro-1,3-Butadiene	13.882	225	346566	7.914	ppbv	100
79) Naphthalene	13.513	128	762976	8.659	ppbv	99
80) Naphthalene,2-methyl-	14.458	142	308264	7.134	ppbv	98
81) 1,2,4-Trichlorobenzene	13.442	180	356193	8.764	ppbv	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

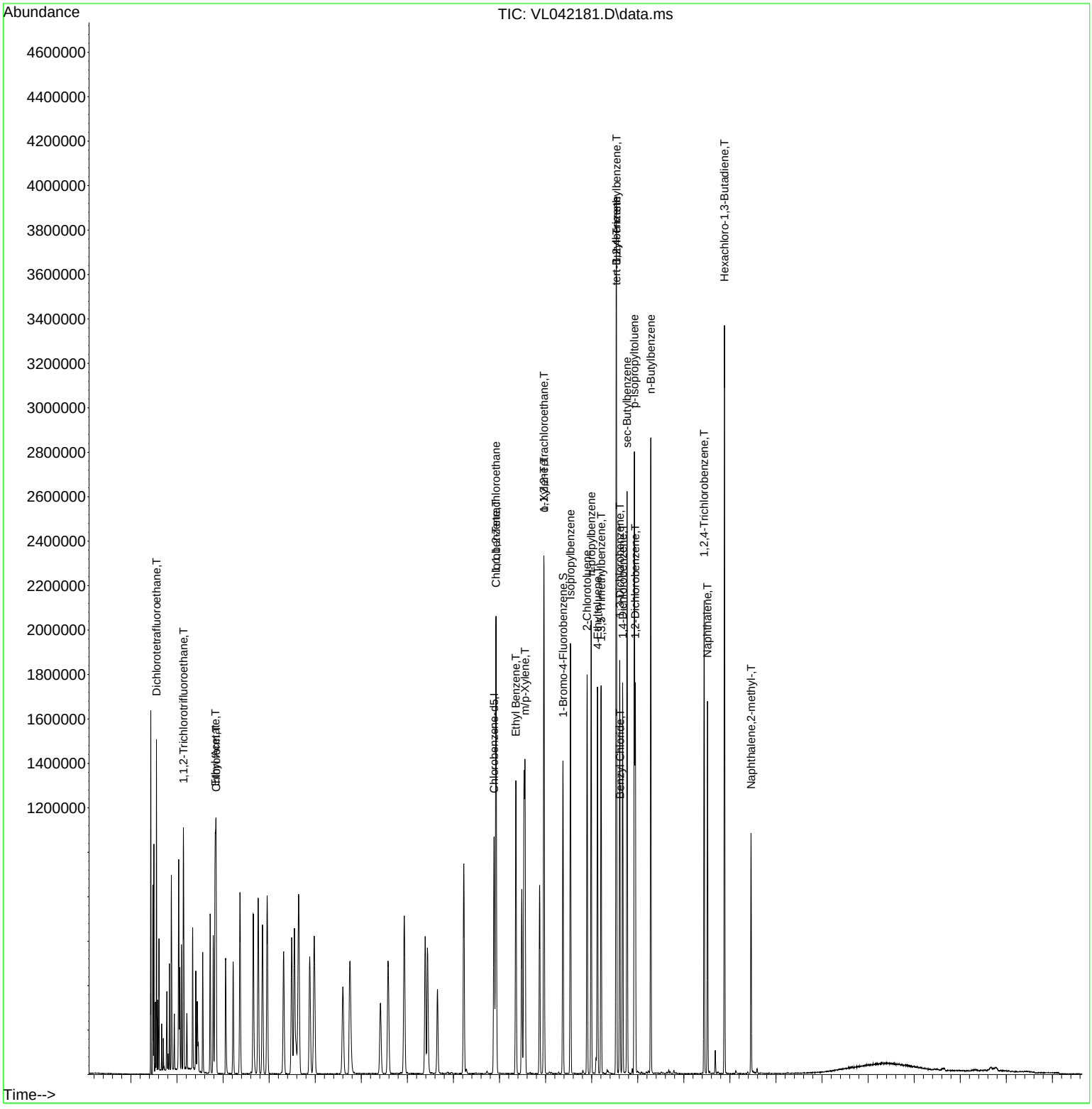
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
Data File : VL042181.D
Acq On : 27 Mar 2025 14:39
Operator : SY/MD
Sample : VL0327ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 28 02:12:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VL0327ABS01

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
Data File : VL042182.D
Acq On : 27 Mar 2025 16:41
Operator : SY/MD
Sample : QC032625 CAN 10448
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
QC032625 CAN 10448

Quant Time: Mar 28 02:13:30 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration

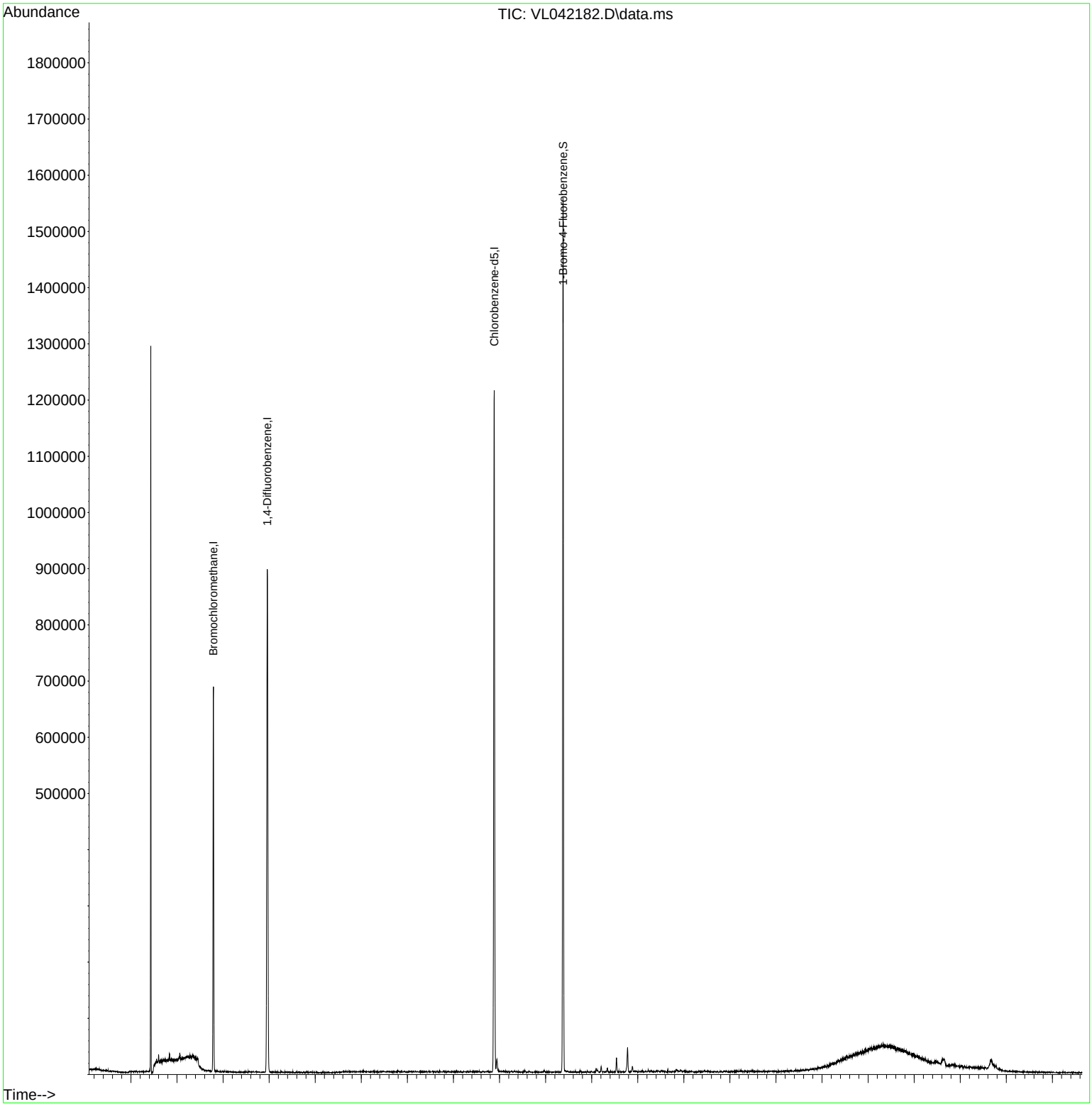
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.787	49	189309	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	546112	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	504808	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	407475	9.829	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 98.300%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
Data File : VL042182.D
Acq On : 27 Mar 2025 16:41
Operator : SY/MD
Sample : QC032625 CAN 10448
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
QC032625 CAN 10448

Quant Time: Mar 28 02:13:30 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration



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 # 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

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 # VL032725

Review By	Mahesh Dadoda	Review On	4/3/2025 8:14:07 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	4/3/2025 8:45:16 AM		
SubDirectory	VL032725	HP Acquire Method	TO15AIR.M	HP Processing Method	VL032725AIR.M

STD. NAME	STD REF.#
Tune/Reschk	AP2589
Initial Calibration Stds	AP2593,AP2595,AP2596
CCC	AP2593
Internal Standard/PEM	AP2589
ICV/I.BLK	AP2594
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VL042171.D	27 Mar 2025 07:44	SY/MD	Ok
2	VSTDICCC010	VL042172.D	27 Mar 2025 08:26	SY/MD	Ok,M
3	VSTDICC002	VL042173.D	27 Mar 2025 08:59	SY/MD	Ok,M
4	VSTDICC001	VL042174.D	27 Mar 2025 09:30	SY/MD	Ok,M
5	VSTDICC0.5	VL042175.D	27 Mar 2025 10:01	SY/MD	Ok,M
6	VSTDICC0.1	VL042176.D	27 Mar 2025 10:32	SY/MD	Ok,M
7	VSTDICC0.03	VL042177.D	27 Mar 2025 11:03	SY/MD	Ok,M
8	VSTDICC015	VL042178.D	27 Mar 2025 11:36	SY/MD	Ok,M
9	VSTDICV010	VL042179.D	27 Mar 2025 12:23	SY/MD	Ok,M
10	VL0327ABL01	VL042180.D	27 Mar 2025 13:50	SY/MD	Ok
11	VL0327ABS01	VL042181.D	27 Mar 2025 14:39	SY/MD	Ok,M
12	QC032625 CAN 10448	VL042182.D	27 Mar 2025 16:41	SY/MD	Ok
13	Q1649-01	VL042183.D	27 Mar 2025 17:13	SY/MD	Not Ok
14	Q1649-02	VL042184.D	27 Mar 2025 17:45	SY/MD	Not Ok
15	Q1669-01	VL042185.D	27 Mar 2025 18:22	SY/MD	Dilution
16	Q1669-02	VL042186.D	27 Mar 2025 18:59	SY/MD	Ok,M
17	Q1669-03	VL042187.D	27 Mar 2025 19:36	SY/MD	Ok,M
18	Q1669-04	VL042188.D	27 Mar 2025 20:12	SY/MD	Ok,M
19	Q1669-09	VL042189.D	27 Mar 2025 20:48	SY/MD	Ok,M
20	Q1669-09DUP	VL042190.D	27 Mar 2025 21:24	SY/MD	Ok,M
21	Q1669-05	VL042191.D	27 Mar 2025 21:57	SY/MD	Not Ok

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 # VL032725

Review By	Mahesh Dadoda	Review On	4/3/2025 8:14:07 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	4/3/2025 8:45:16 AM		
SubDirectory	VL032725	HP Acquire Method	TO15AIR.M	HP Processing Method	VL032725AIR.M

STD. NAME	STD REF.#
Tune/Reschk	AP2589
Initial Calibration Stds	AP2593,AP2595,AP2596
CCC	AP2593
Internal Standard/PEM	AP2589
ICV/I.BLK	AP2594
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	Q1669-07DL	VL042192.D	27 Mar 2025 22:29	SY/MD	Ok,M
23	Q1669-08	VL042193.D	27 Mar 2025 23:01	SY/MD	Not Ok
24	VIBLK	VL042194.D	27 Mar 2025 23:34	SY/MD	Ok
25	Q1669-01DL	VL042195.D	28 Mar 2025 00:06	SY/MD	Ok,M
26	Q1669-01DUP	VL042196.D	28 Mar 2025 00:44	SY/MD	Ok,M
27	Q1669-05	VL042197.D	28 Mar 2025 01:20	SY/MD	Ok,M
28	Q1669-07	VL042198.D	28 Mar 2025 01:57	SY/MD	Dilution
29	Q1669-08	VL042199.D	28 Mar 2025 02:33	SY/MD	Ok,M

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

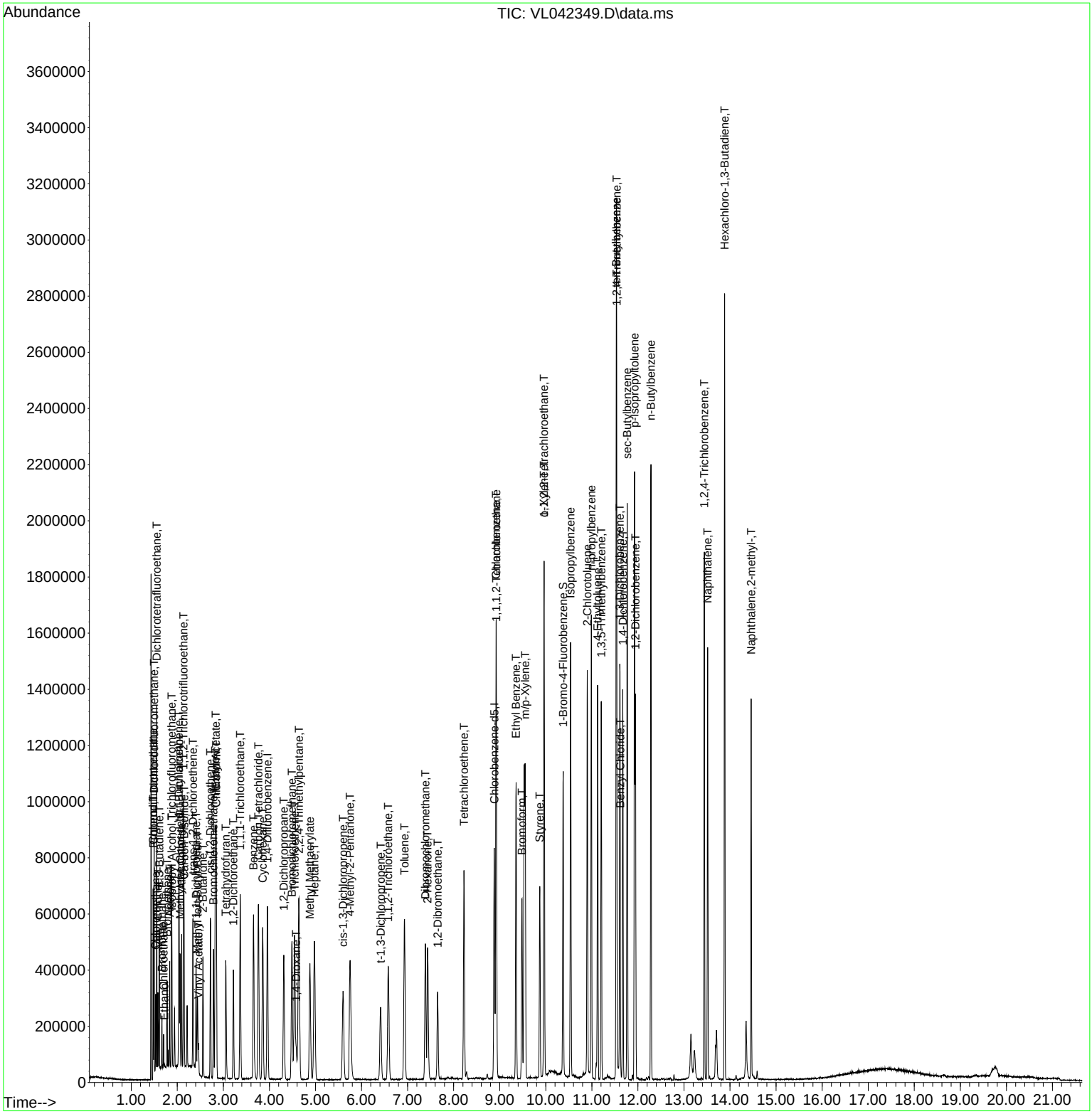
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) cis-1,3-Dichloropropene	5.600	75	208811	9.377	ppbv		100
47) 1,1,2-Trichloroethane	6.580	97	137898	9.181	ppbv		100
48) Dibromochloromethane	7.386	129	248954	9.388	ppbv		100
49) Bromoform	9.480	173	225706	9.734	ppbv		100
50) 4-Methyl-2-Pentanone	5.752	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

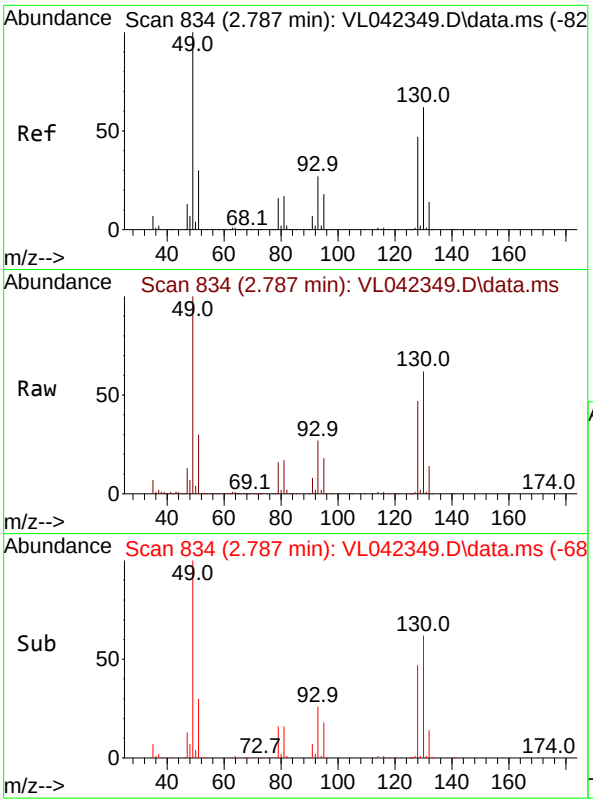
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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



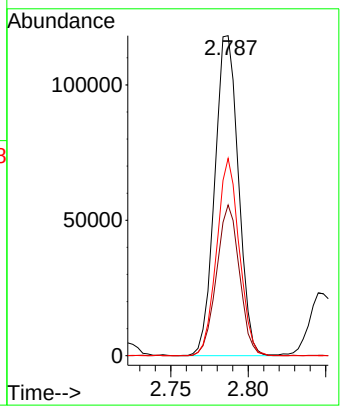


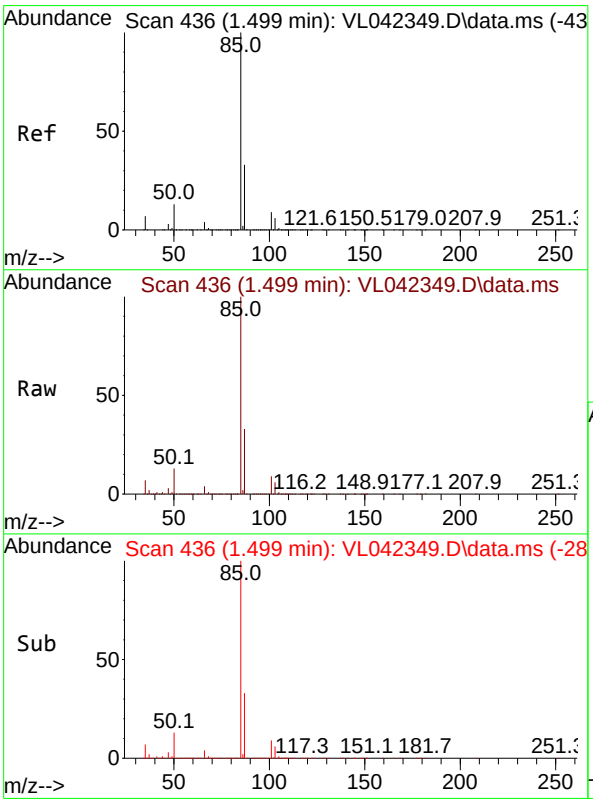
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

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

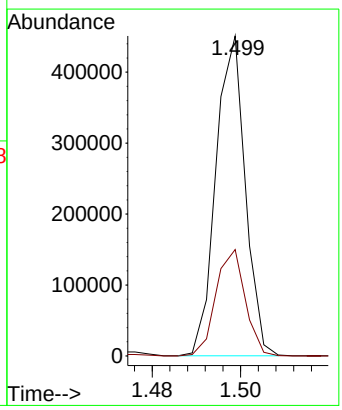


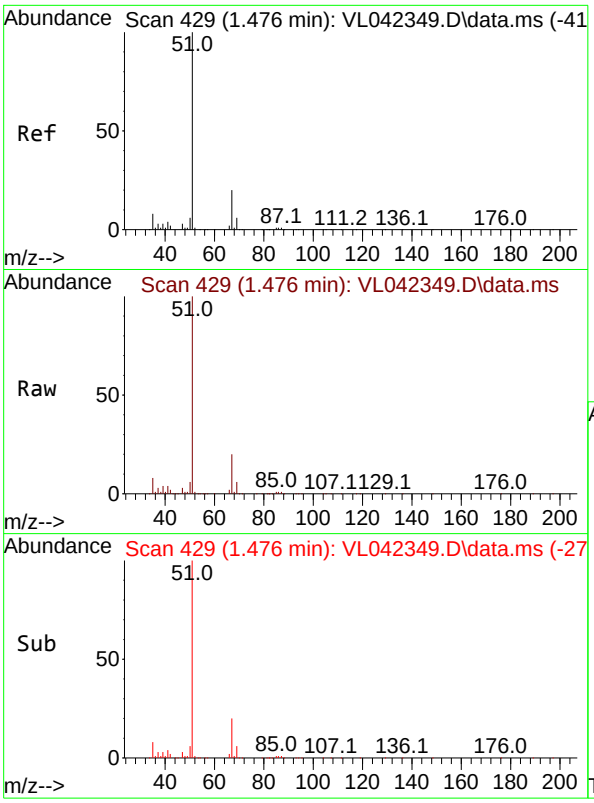


#2
Dichlorodifluoromethane
Concen: 9.382 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 85 Resp: 207962

Ion	Ratio	Lower	Upper
85	100		
87	33.2	26.6	39.8



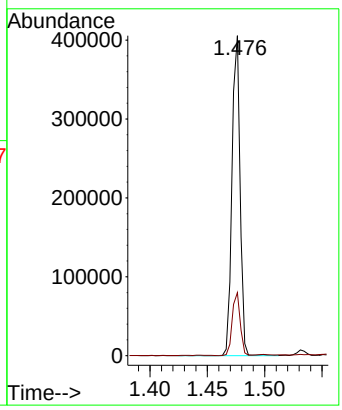


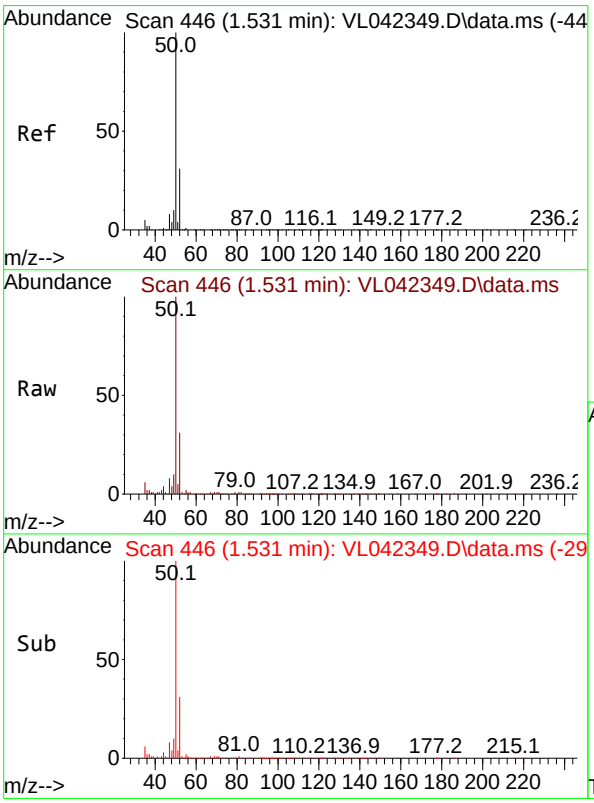
#3
Chlorodifluoromethane
Concen: 9.350 ppbv
RT: 1.476 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 51 Resp: 197334

Ion	Ratio	Lower	Upper
51	100		
67	20.3	16.2	24.4

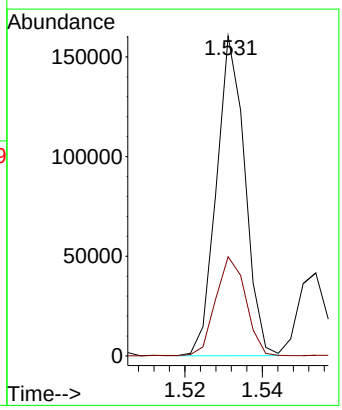


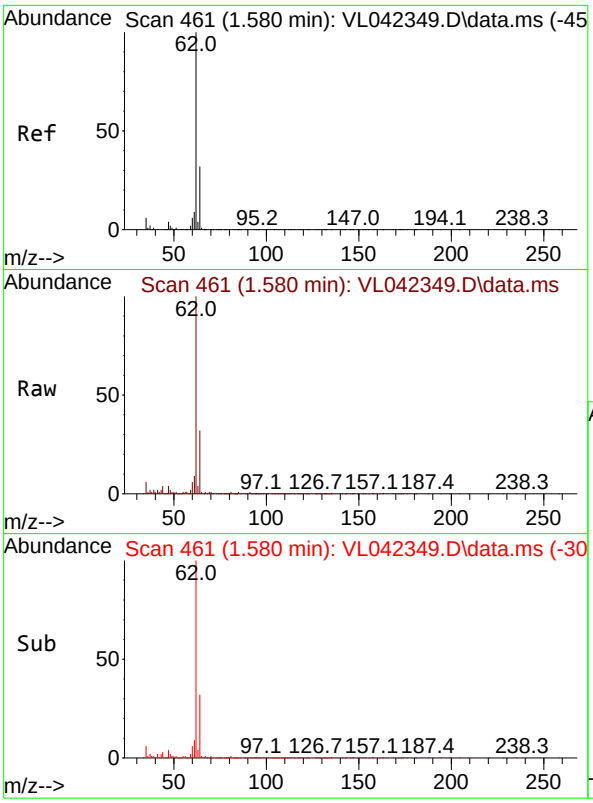


#4
Chloromethane
Concen: 9.330 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 50 Resp: 81843

Ion	Ratio	Lower	Upper
50	100		
52	30.9	24.7	37.1



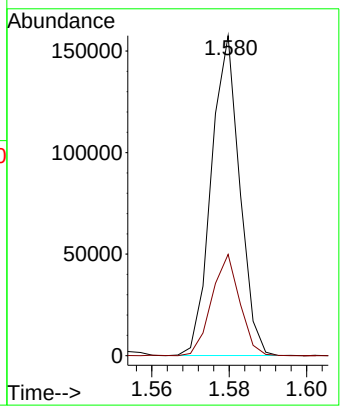


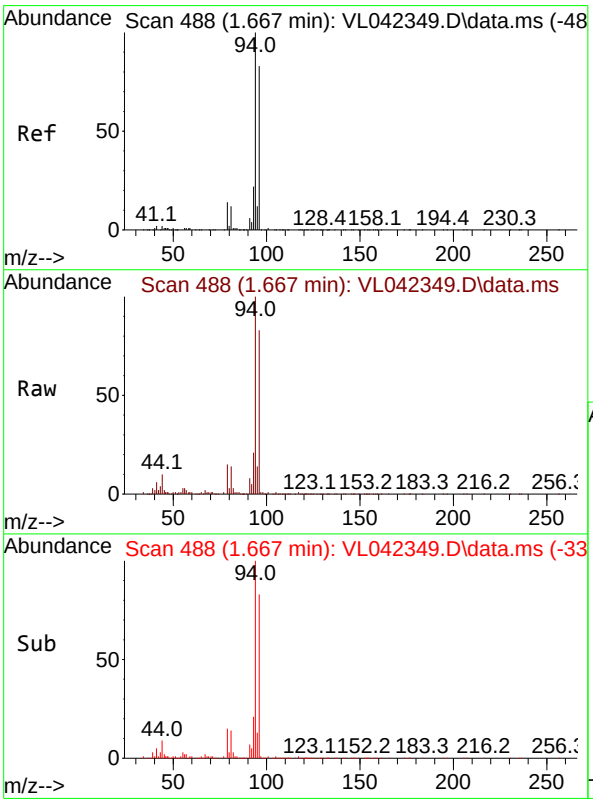
#5
Vinyl Chloride
Concen: 8.385 ppbv
RT: 1.580 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 62 Resp: 80068

Ion	Ratio	Lower	Upper
62	100		
64	31.7	25.4	38.0

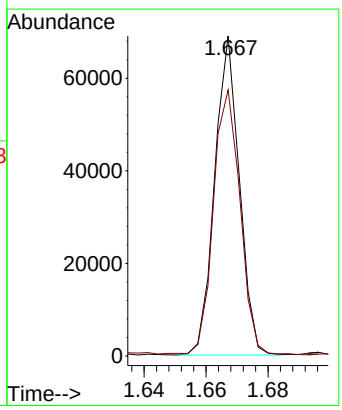


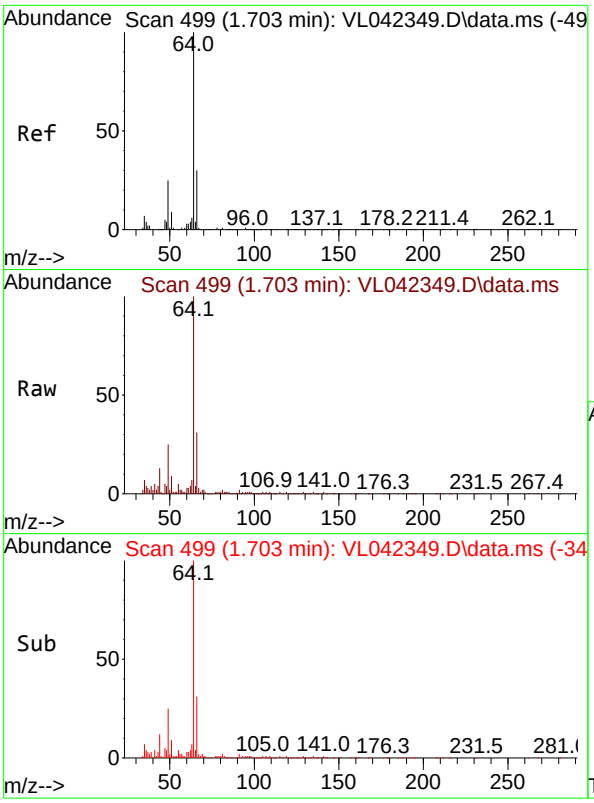


#6
Bromomethane
Concen: 9.219 ppbv
RT: 1.667 min Scan# 488
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 94 Resp: 38128

Ion	Ratio	Lower	Upper
94	100		
96	82.7	66.2	99.2



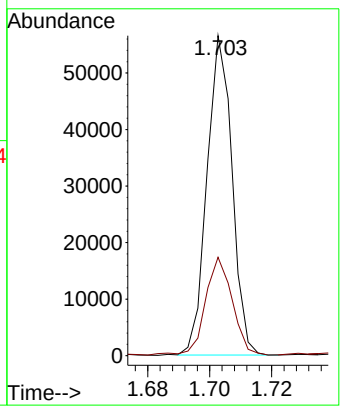


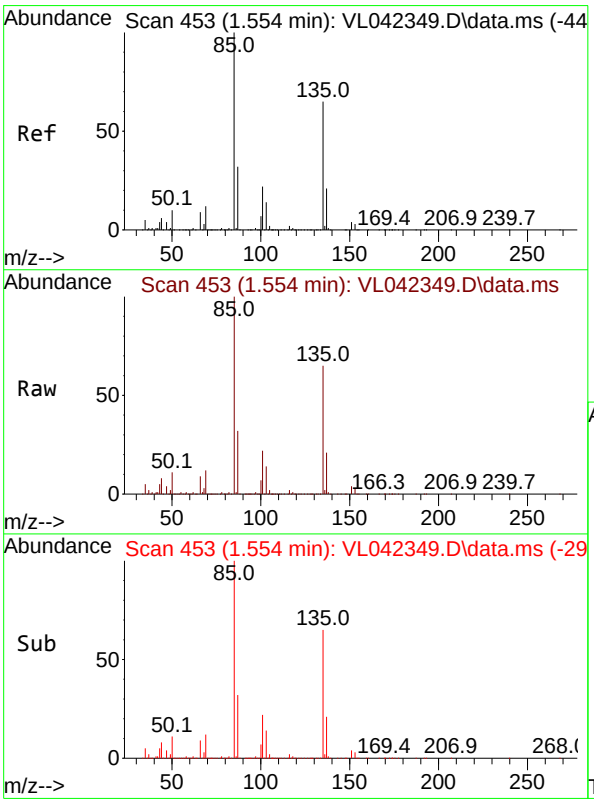
#7
Chloroethane
Concen: 9.182 ppbv
RT: 1.703 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 64 Resp: 31705

Ion	Ratio	Lower	Upper
64	100		
66	30.8	24.6	37.0

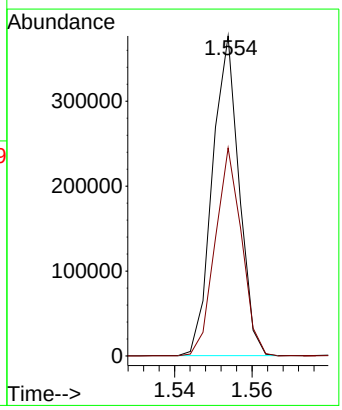


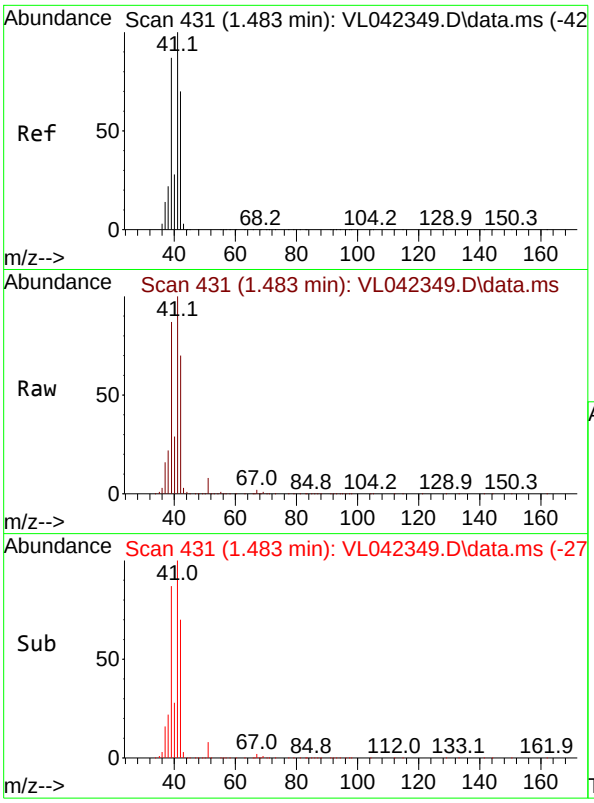


#8
Dichlorotetrafluoroethane
Concen: 9.442 ppbv
RT: 1.554 min Scan# 453
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 85 Resp: 179696

Ion	Ratio	Lower	Upper
85	100		
135	65.2	52.2	78.2



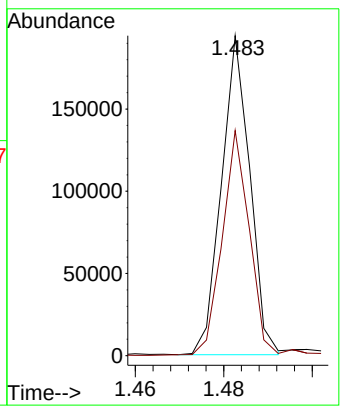


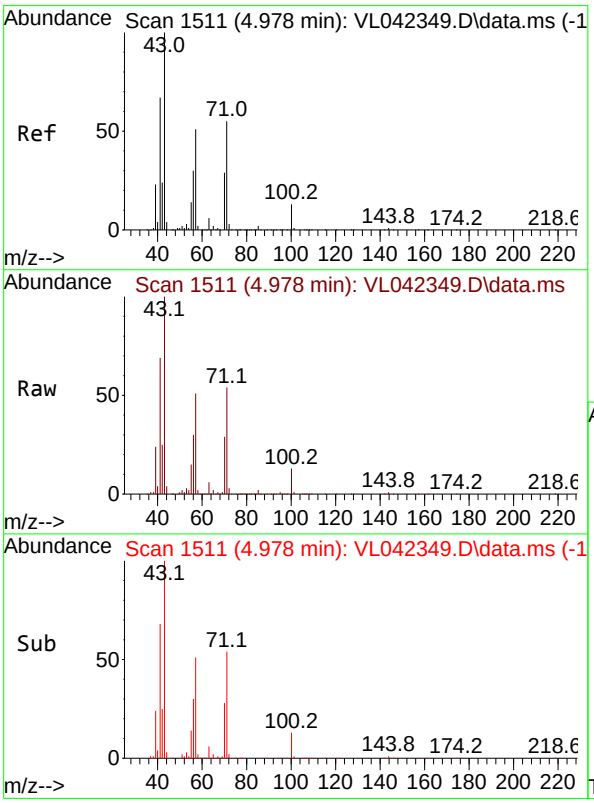
#9
Propene
Concen: 9.002 ppbv
RT: 1.483 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 41 Resp: 86530

Ion	Ratio	Lower	Upper
41	100		
42	70.3	56.2	84.4

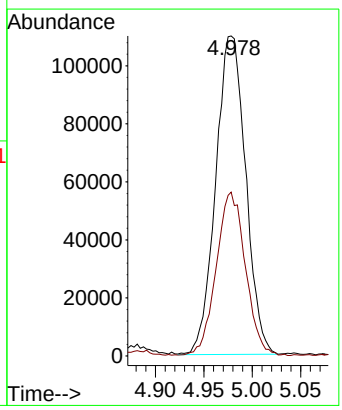


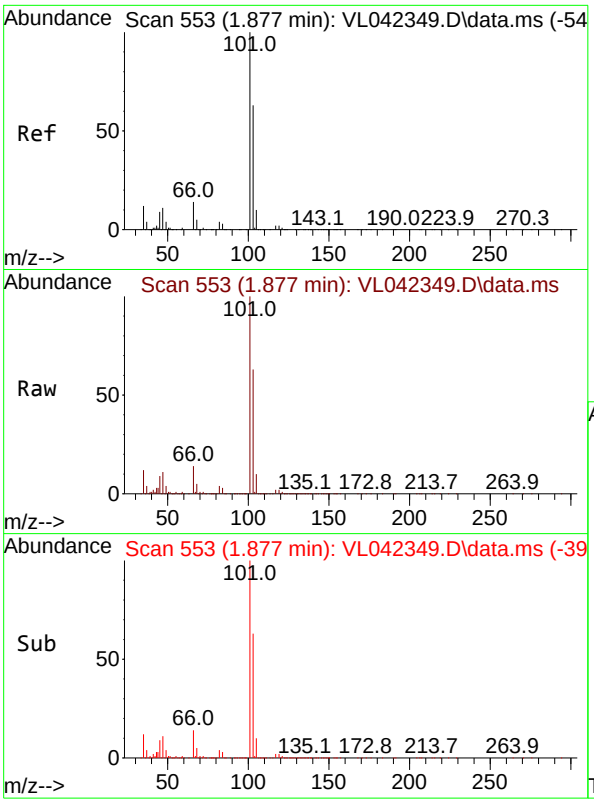


#10
Heptane
Concen: 9.138 ppbv
RT: 4.978 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 43 Resp: 236341

Ion	Ratio	Lower	Upper
43	100		
57	49.9	39.9	59.9



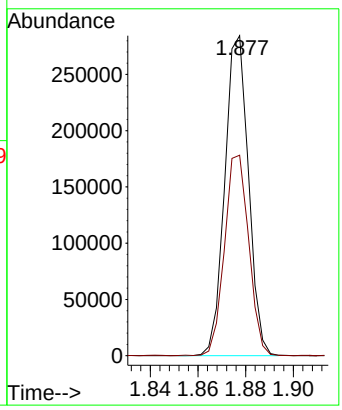


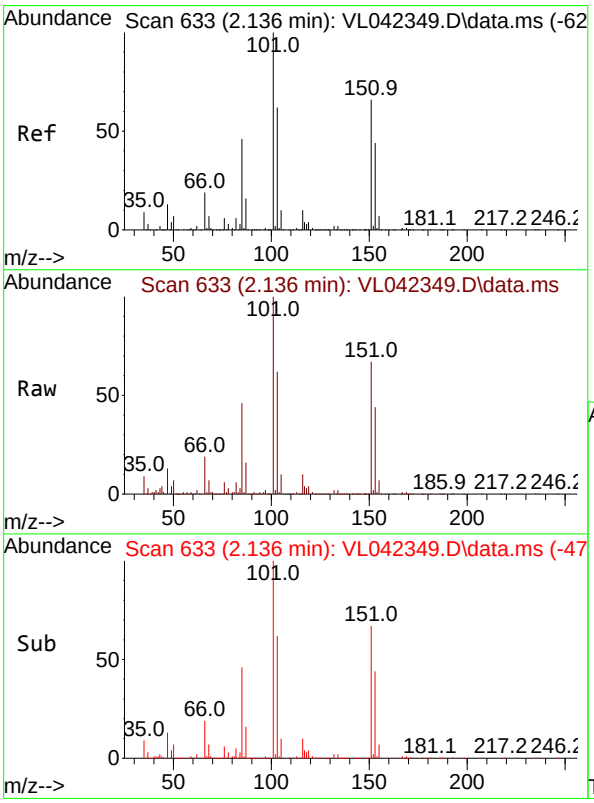
#11
Trichlorofluoromethane
Concen: 9.327 ppbv
RT: 1.877 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion:101 Resp: 196596

Ion	Ratio	Lower	Upper
101	100		
103	62.6	50.1	75.1

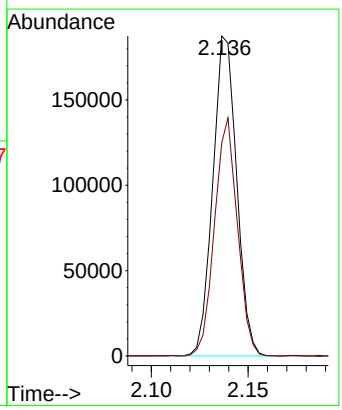


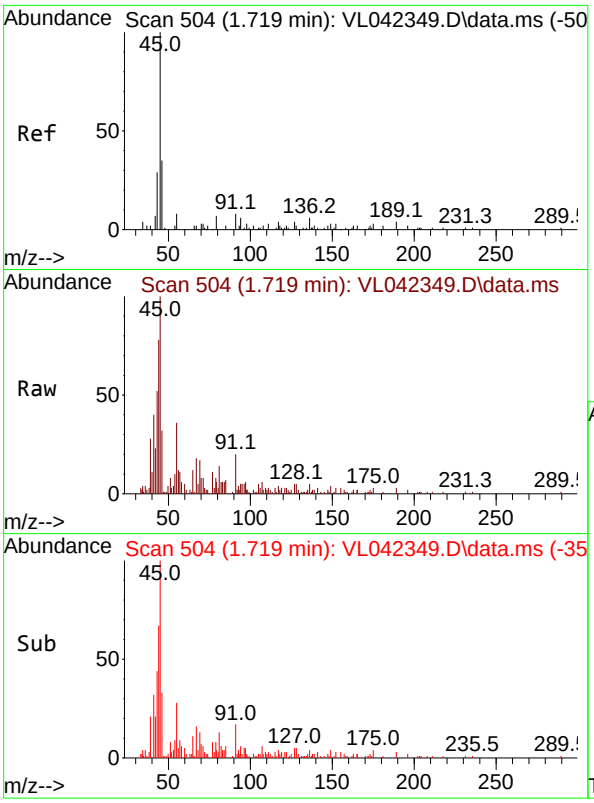


#12
1,1,2-Trichlorotrifluoroethane
Concen: 9.323 ppbv
RT: 2.136 min Scan# 633
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion:101 Resp: 160682

Ion	Ratio	Lower	Upper
101	100		
151	71.3	57.0	85.6



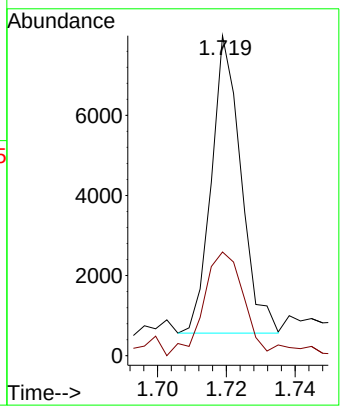


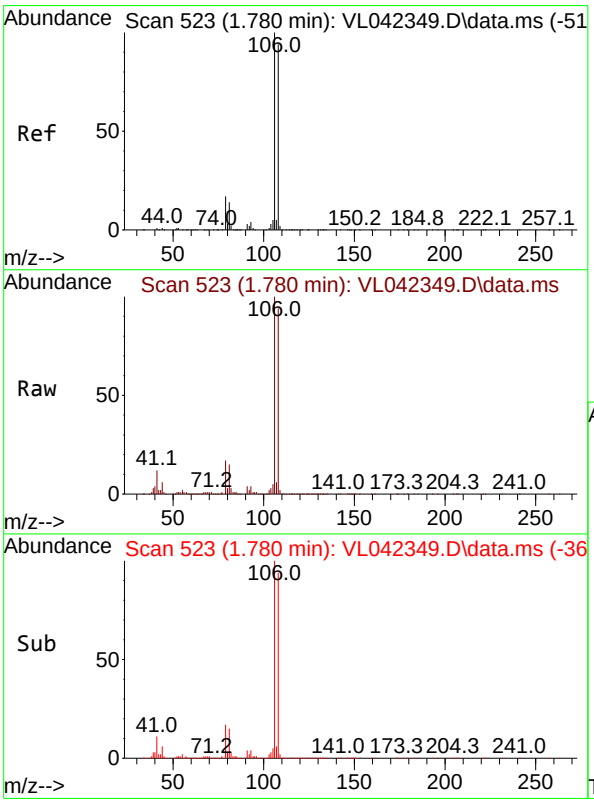
#13
Ethanol
Concen: 5.651 ppbv
RT: 1.719 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 45 Resp: 4439

Ion	Ratio	Lower	Upper
45	100		
46	54.8	21.9	87.7

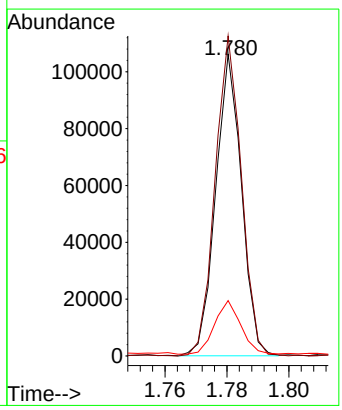


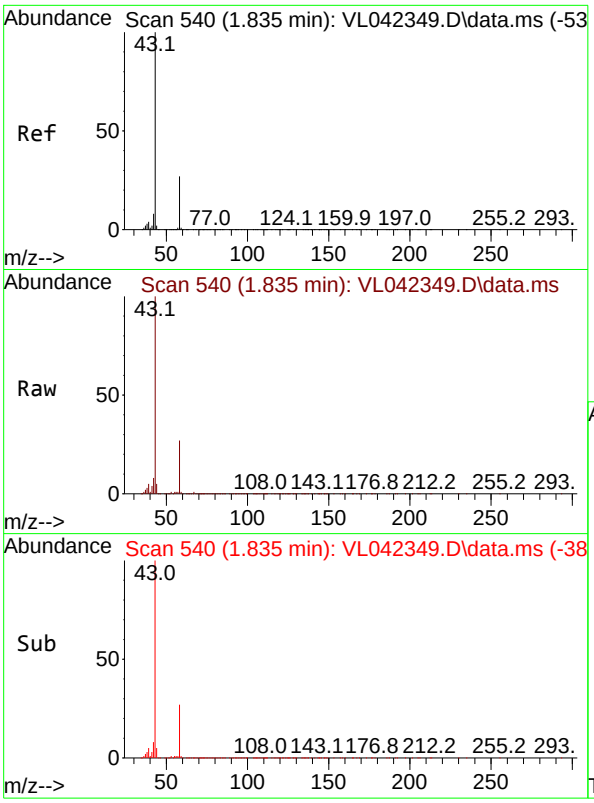


#14
Bromoethene
Concen: 9.466 ppbv
RT: 1.780 min Scan# 523
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

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



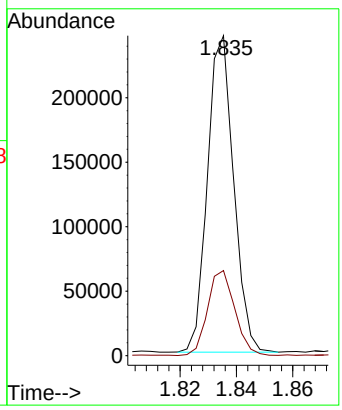


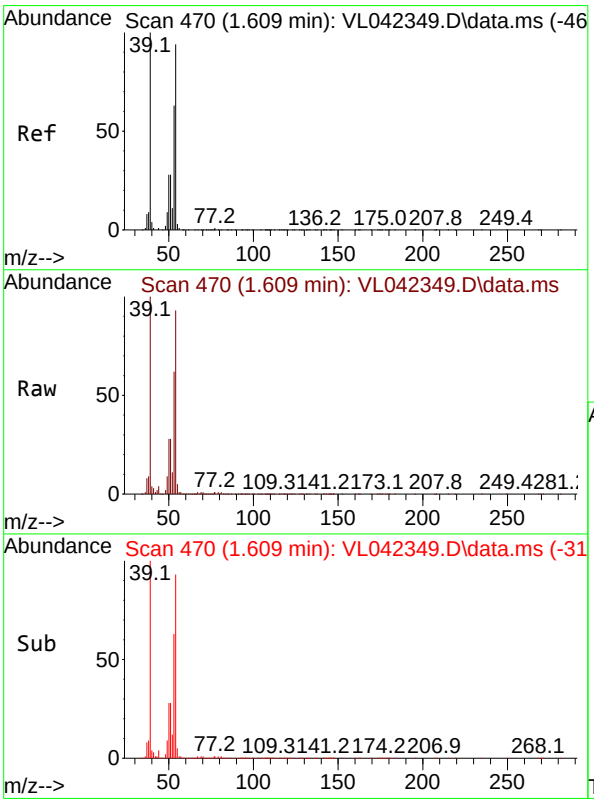
#15
Acetone
Concen: 7.717 ppbv
RT: 1.835 min Scan# 54
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 43 Resp: 158490

Ion	Ratio	Lower	Upper
43	100		
58	28.0	22.4	33.6

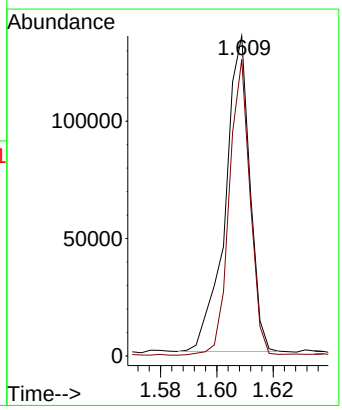


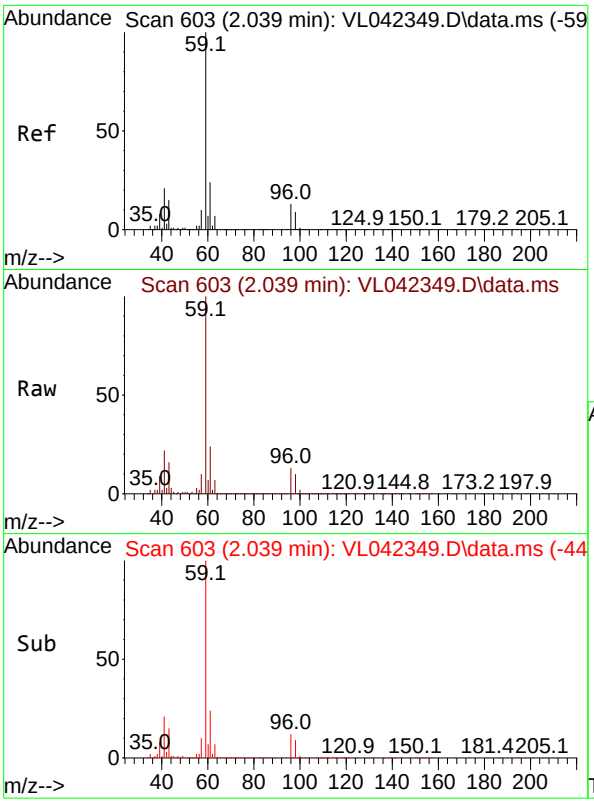


#16
1,3-Butadiene
Concen: 8.470 ppbv
RT: 1.609 min Scan# 470
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 39 Resp: 81688

Ion	Ratio	Lower	Upper
39	100		
54	81.1	64.9	97.3



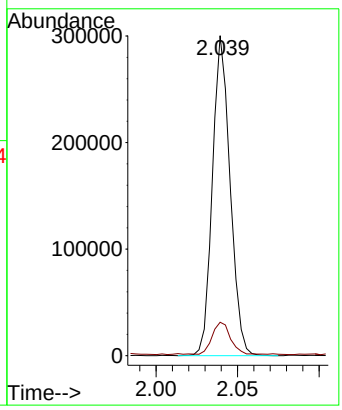


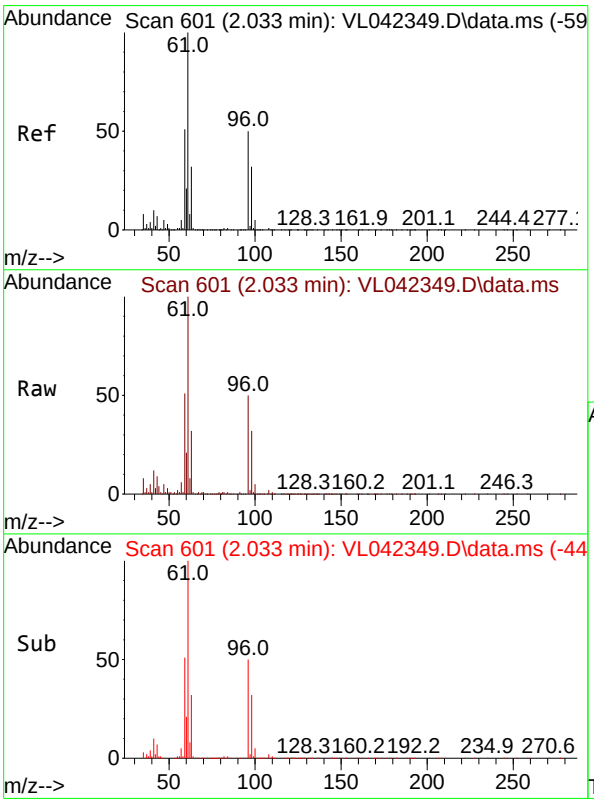
#17
tert-Butyl alcohol
Concen: 8.891 ppbv
RT: 2.039 min Scan# 6
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 59 Resp: 226280

Ion	Ratio	Lower	Upper
59	100		
57	10.9	8.7	13.1

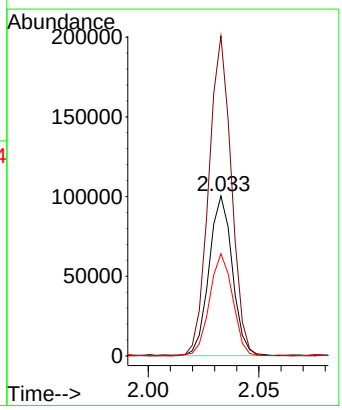


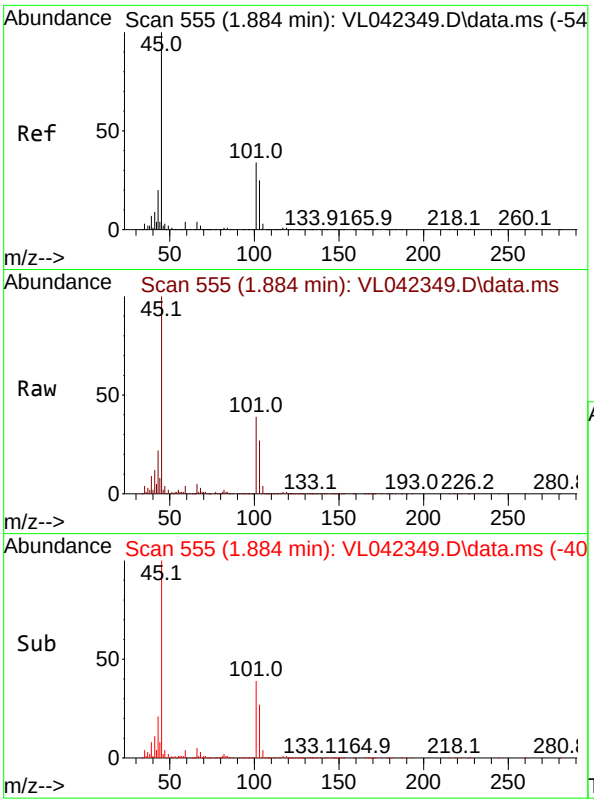


#18
1,1-Dichloroethene
Concen: 8.833 ppbv
RT: 2.033 min Scan# 601
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

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



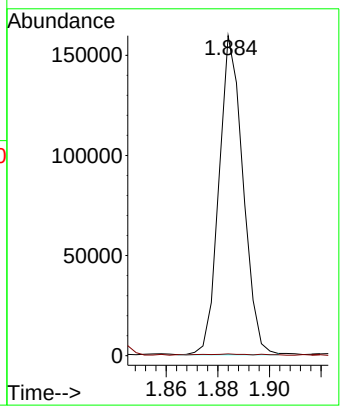


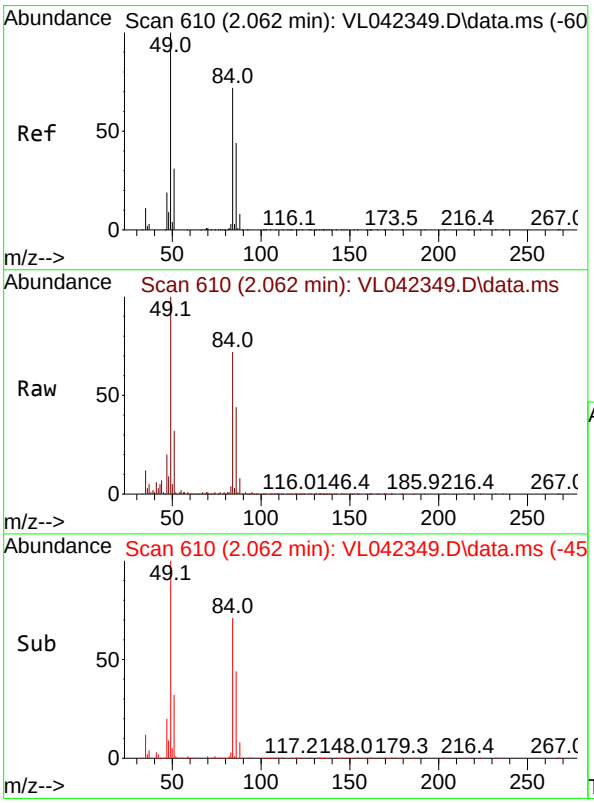
#19
Isopropyl Alcohol
Concen: 9.031 ppbv
RT: 1.884 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 45 Resp: 103029

Ion	Ratio	Lower	Upper
45	100		
58	43.1	34.5	51.7

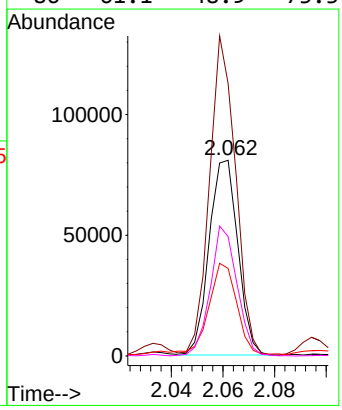


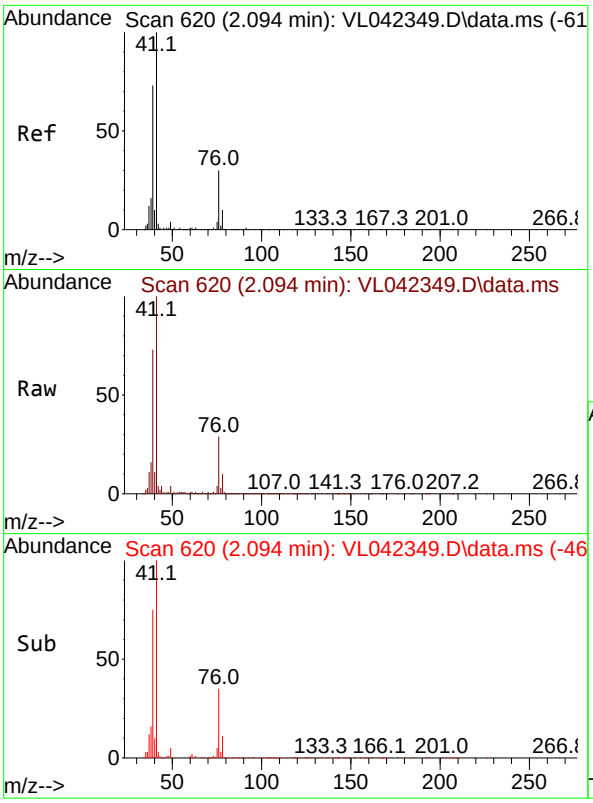


#20
Methylene Chloride
Concen: 7.760 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

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



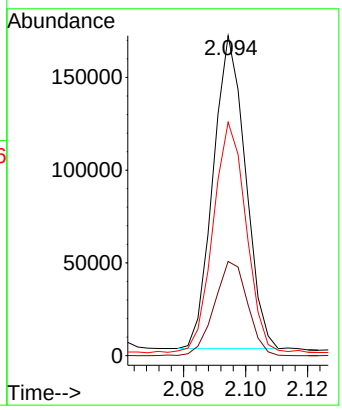


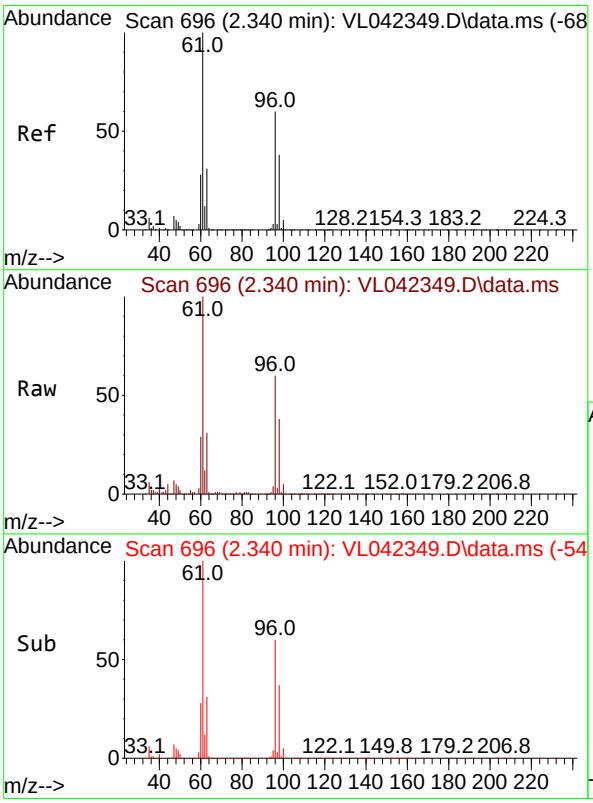
#21
Allyl Chloride
Concen: 8.611 ppbv
RT: 2.094 min Scan# 6
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

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

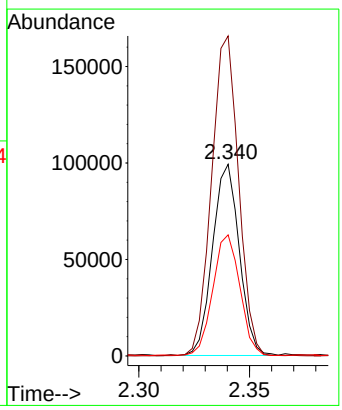


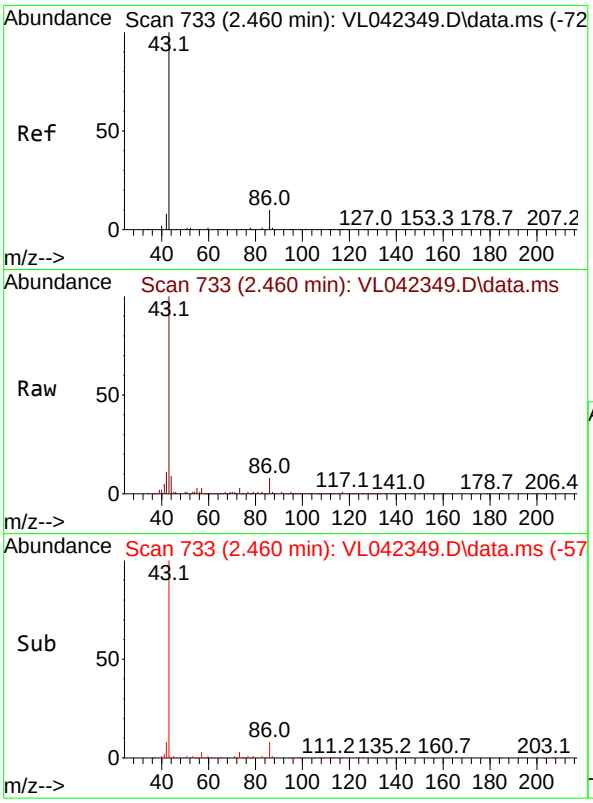


#22
trans-1,2-Dichloroethene
Concen: 9.084 ppbv
RT: 2.340 min Scan# 696
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

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



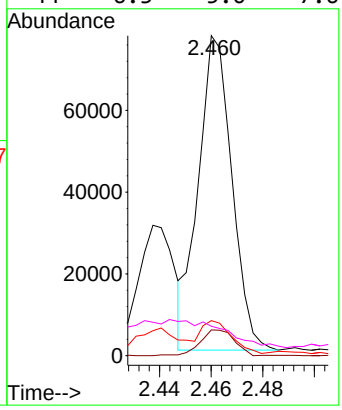


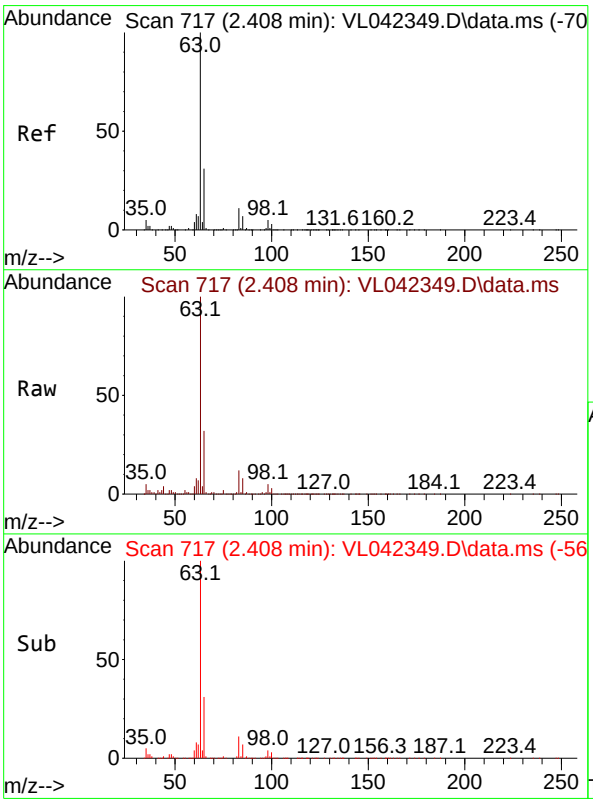
#23
Vinyl Acetate
Concen: 8.378 ppbv
RT: 2.460 min Scan# 7
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

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

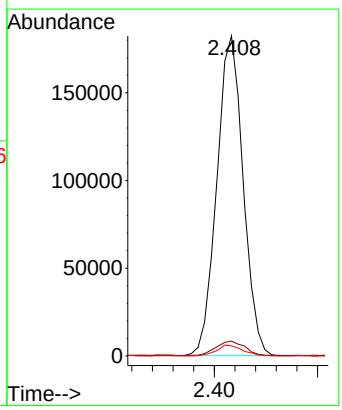


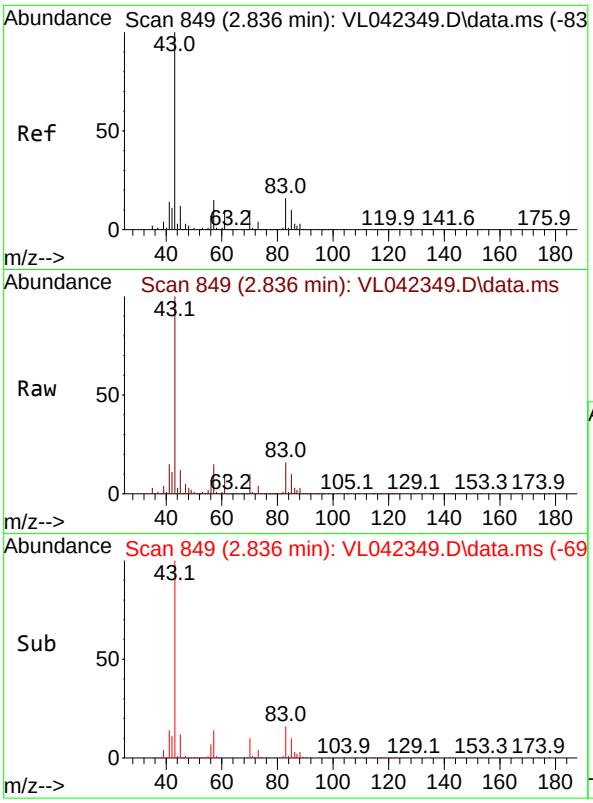


#24
1,1-Dichloroethane
Concen: 9.251 ppbv
RT: 2.408 min Scan# 717
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

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



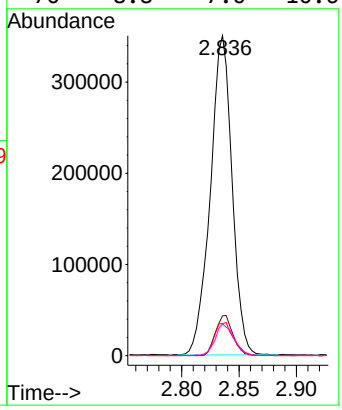


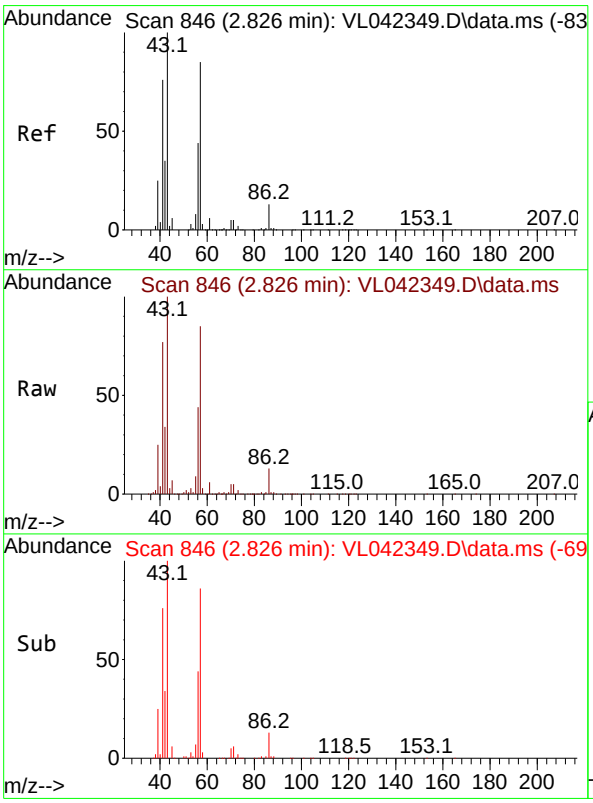
#25
Ethyl Acetate
Concen: 9.110 ppbv
RT: 2.836 min Scan# 84
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

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

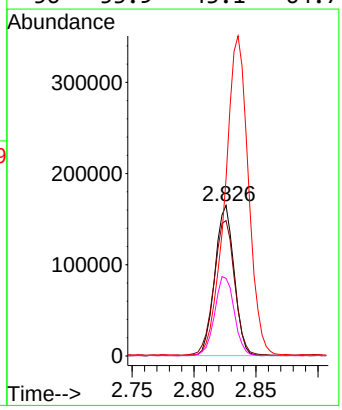


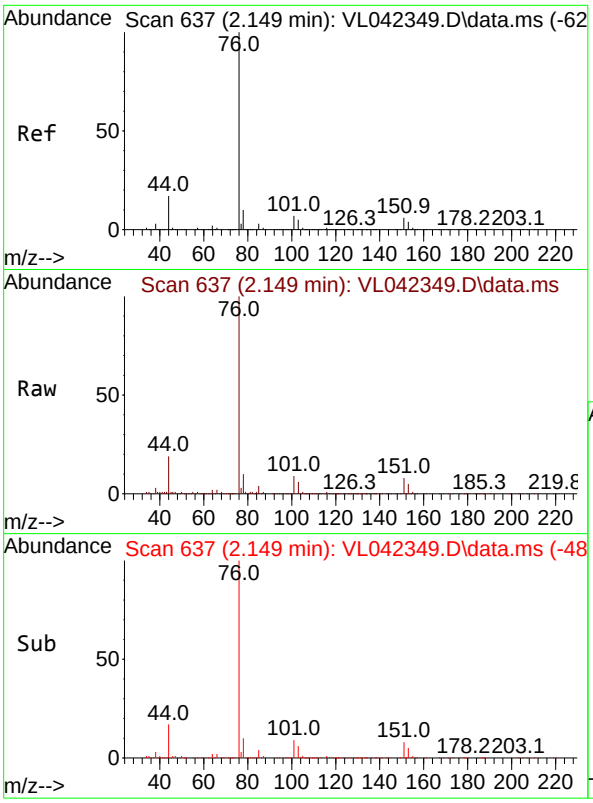


#26
Hexane
Concen: 8.720 ppbv
RT: 2.826 min Scan# 846
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

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



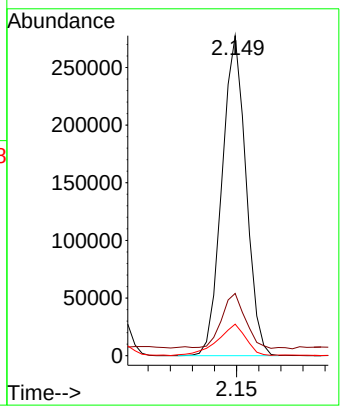


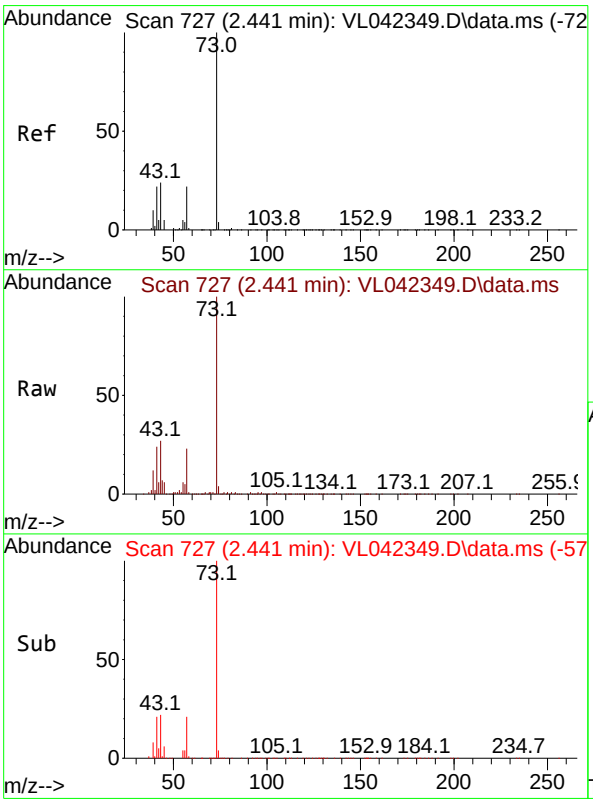
#27
Carbon Disulfide
Concen: 9.539 ppbv
RT: 2.149 min Scan# 6
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

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

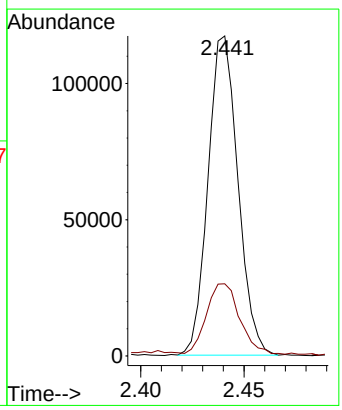


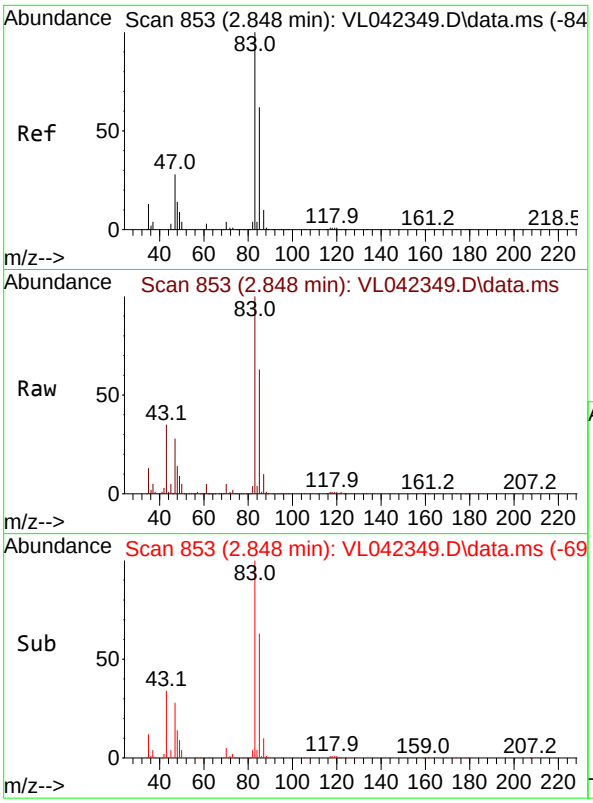


#28
Methyl tert-Butyl Ether
Concen: 8.783 ppbv
RT: 2.441 min Scan# 727
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 73 Resp: 117924

Ion	Ratio	Lower	Upper
73	100		
57	26.6	21.3	31.9



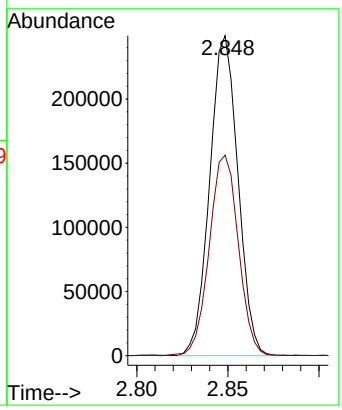


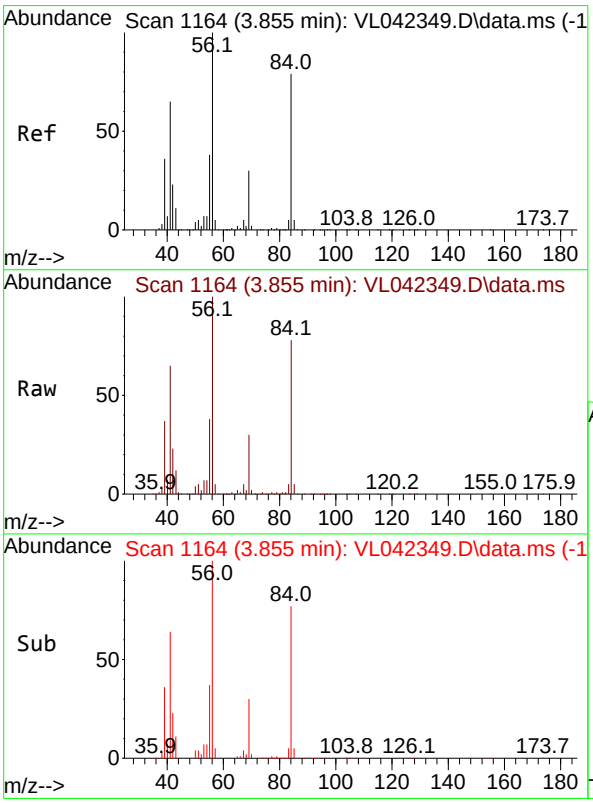
#29
Chloroform
Concen: 9.290 ppbv
RT: 2.848 min Scan# 8
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 83 Resp: 269088

Ion	Ratio	Lower	Upper
83	100		
85	62.5	50.0	75.0

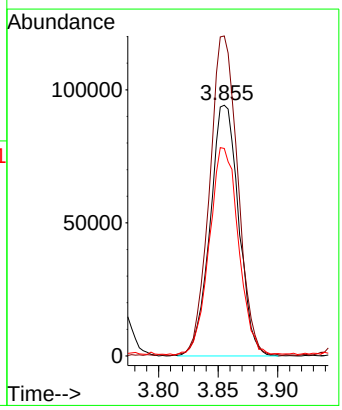


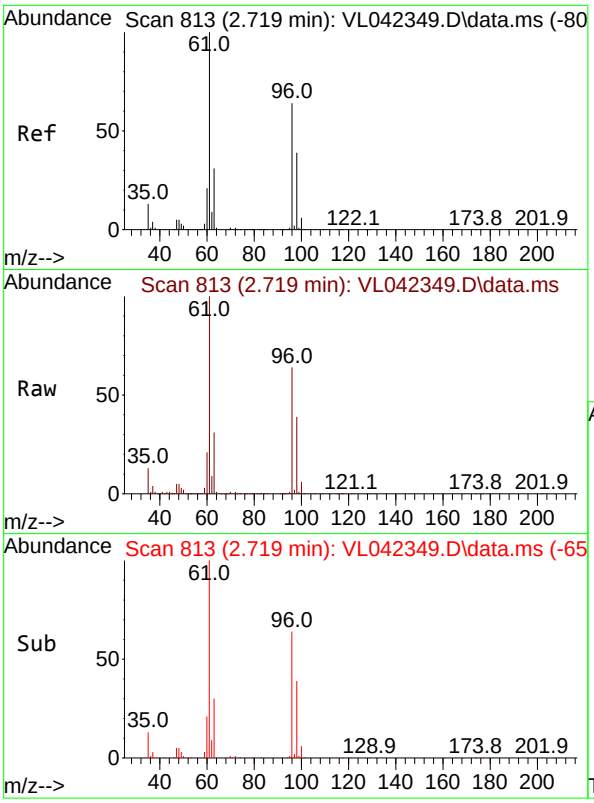


#30
Cyclohexane
Concen: 9.517 ppbv
RT: 3.855 min Scan# 1164
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

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



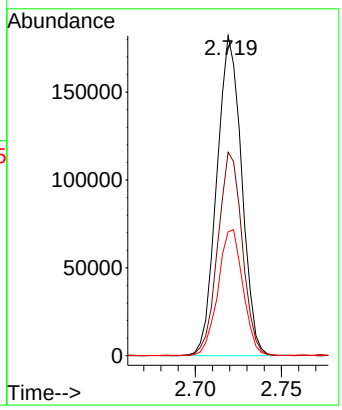


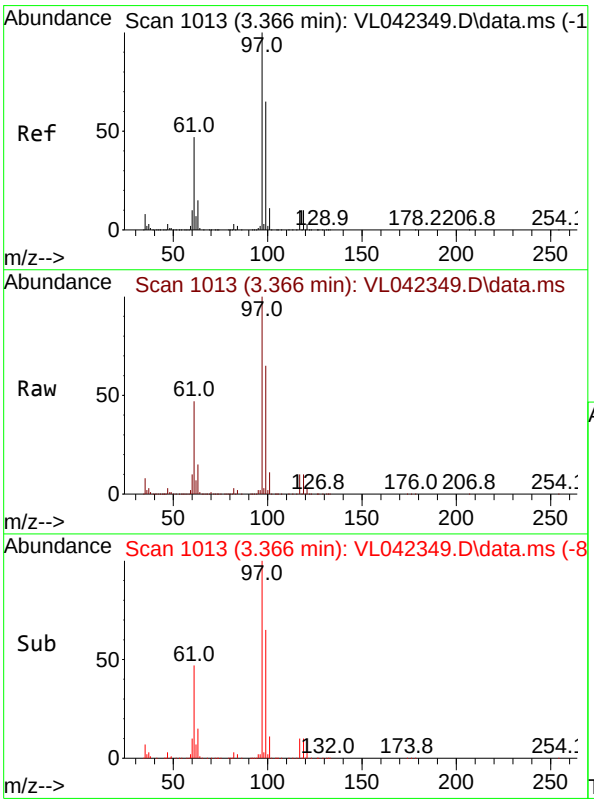
#31
cis-1,2-Dichloroethene
Concen: 9.397 ppbv
RT: 2.719 min Scan# 8
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

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

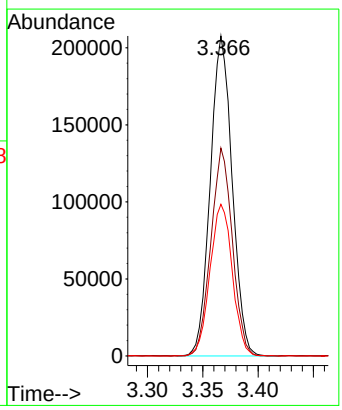


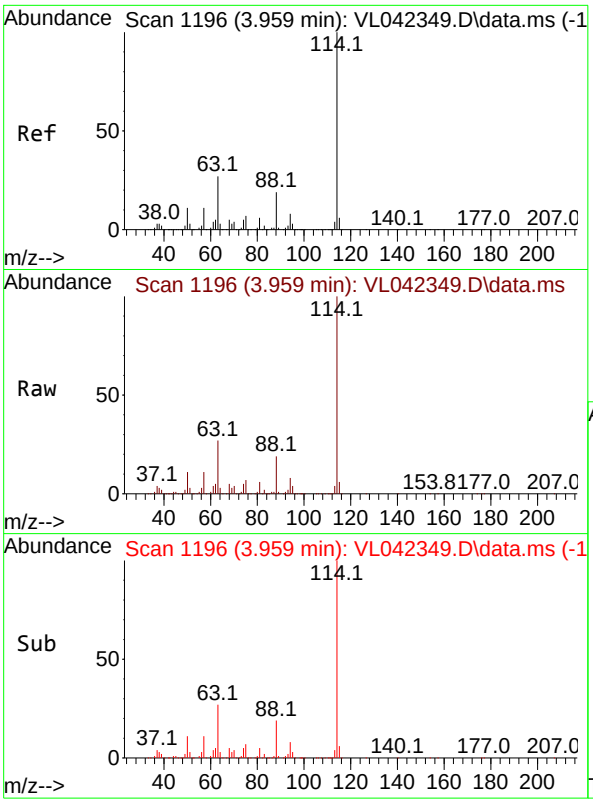


#32
1,1,1-Trichloroethane
Concen: 9.187 ppbv
RT: 3.366 min Scan# 1013
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

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



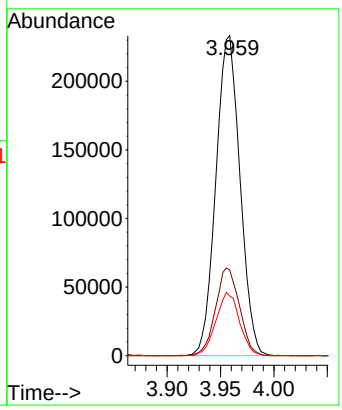


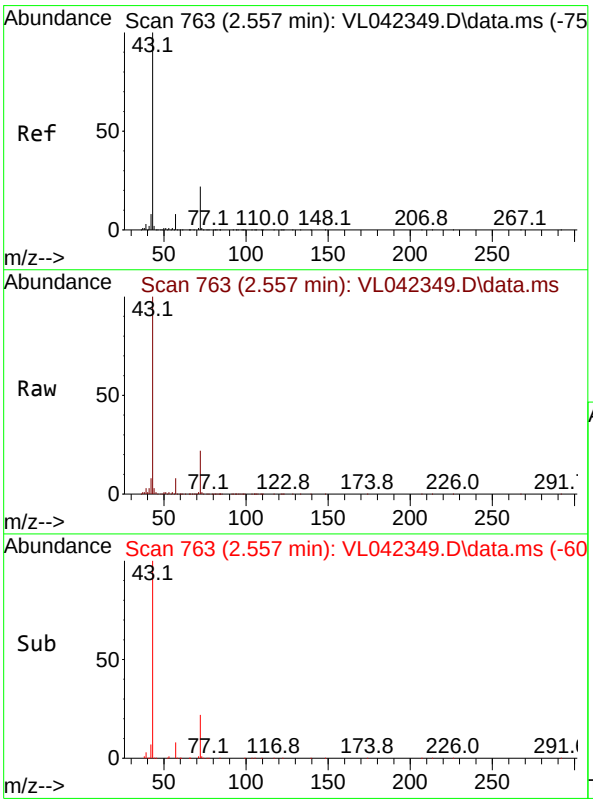
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.959 min Scan# 1
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

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

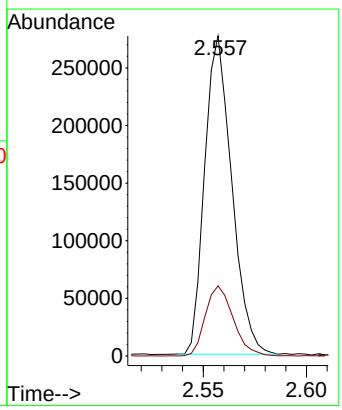


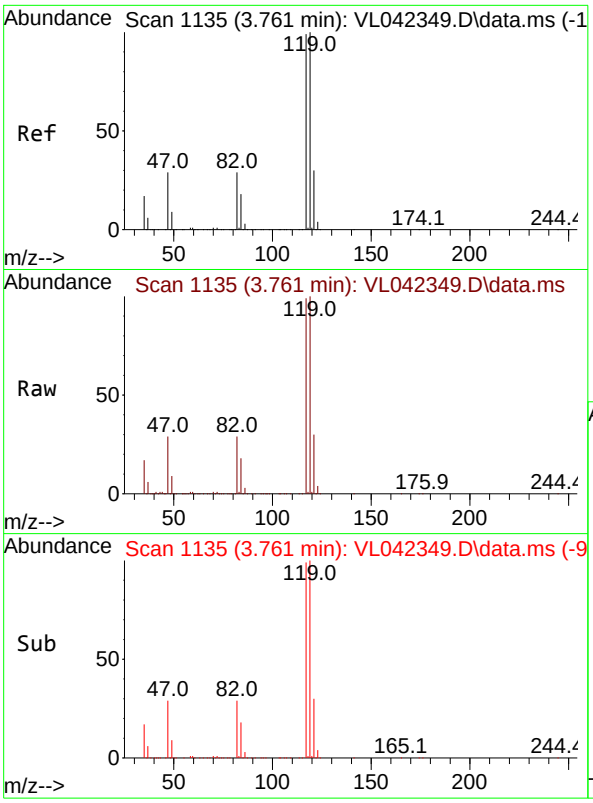


#34
2-Butanone
Concen: 8.683 ppbv
RT: 2.557 min Scan# 763
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 43 Resp: 251704

Ion	Ratio	Lower	Upper
43	100		
72	22.7	18.2	27.2



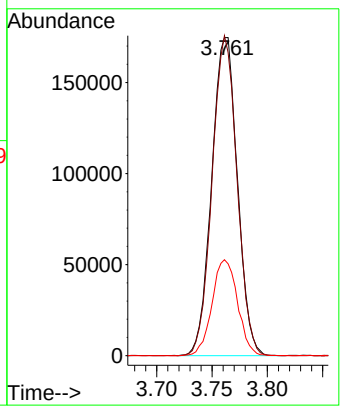


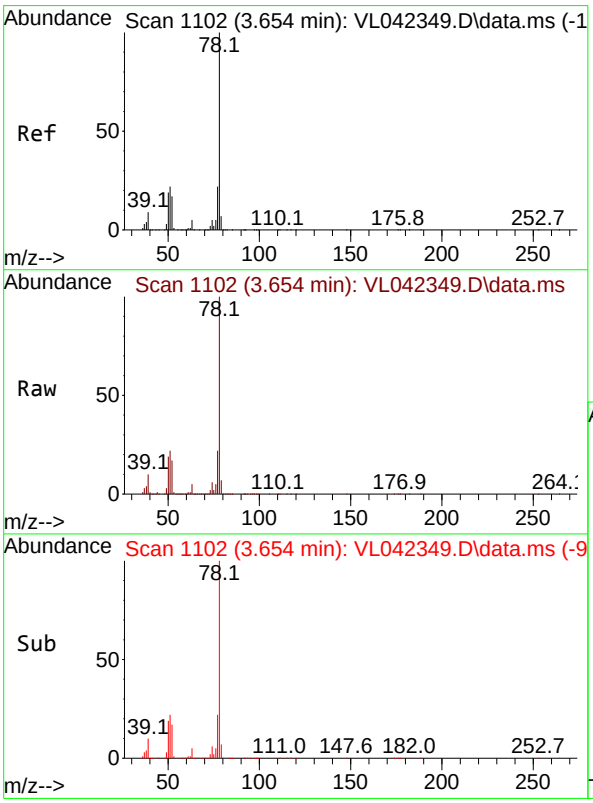
#35
Carbon Tetrachloride
Concen: 8.513 ppbv
RT: 3.761 min Scan# 11
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

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

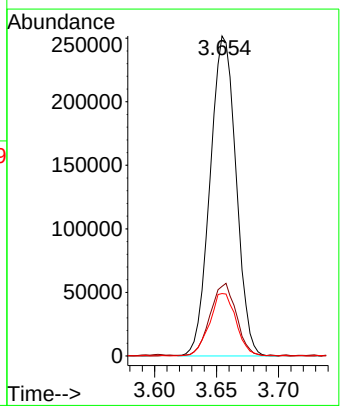


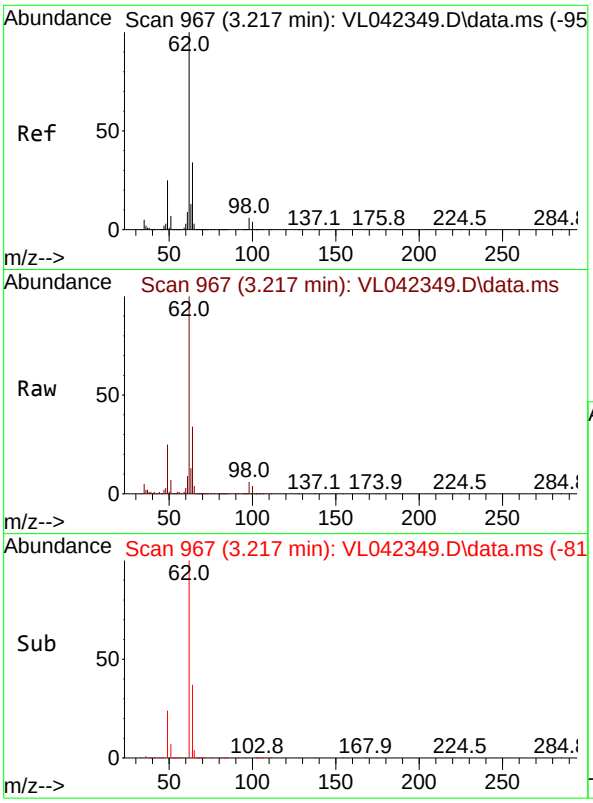


#36
Benzene
Concen: 9.292 ppbv
RT: 3.654 min Scan# 1102
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

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



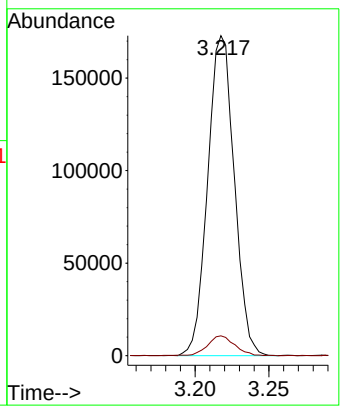


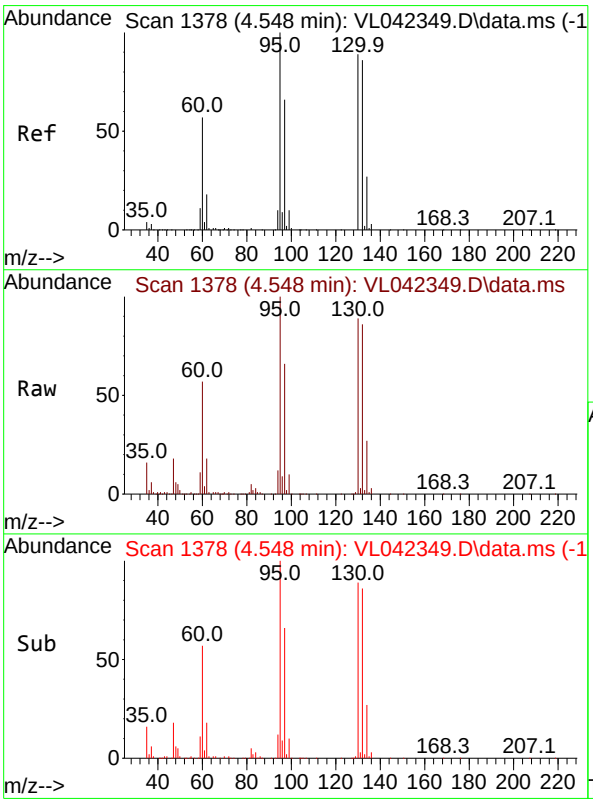
#37
1,2-Dichloroethane
Concen: 9.145 ppbv
RT: 3.217 min Scan# 9
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 62 Resp: 216999

Ion	Ratio	Lower	Upper
62	100		
98	6.4	5.1	7.7

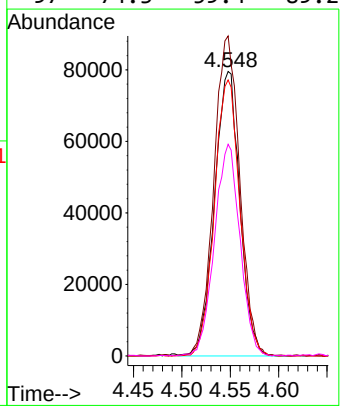


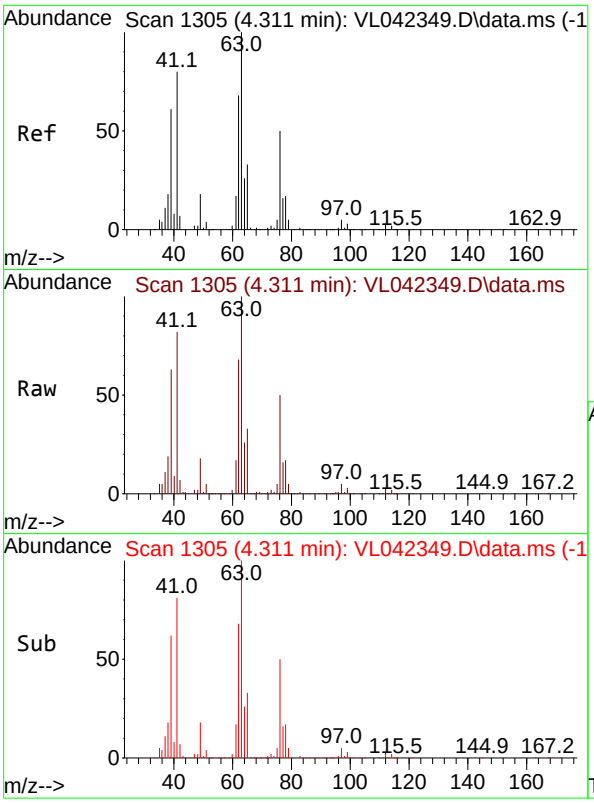


#38
Trichloroethene
Concen: 8.352 ppbv
RT: 4.548 min Scan# 1378
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

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



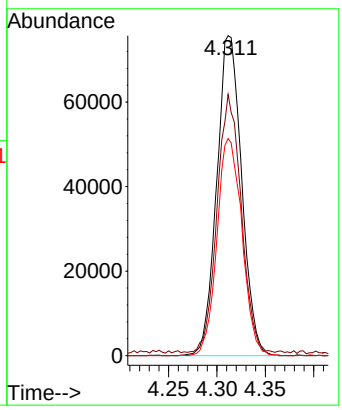


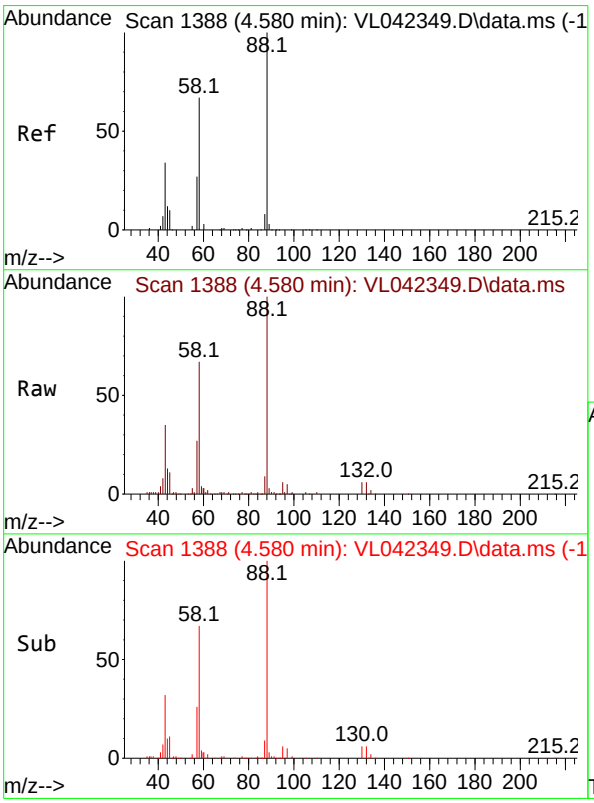
#39
1,2-Dichloropropane
Concen: 9.197 ppbv
RT: 4.311 min Scan# 1
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

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

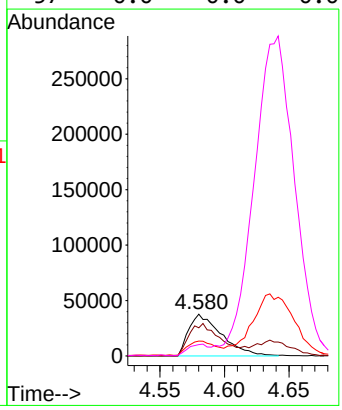


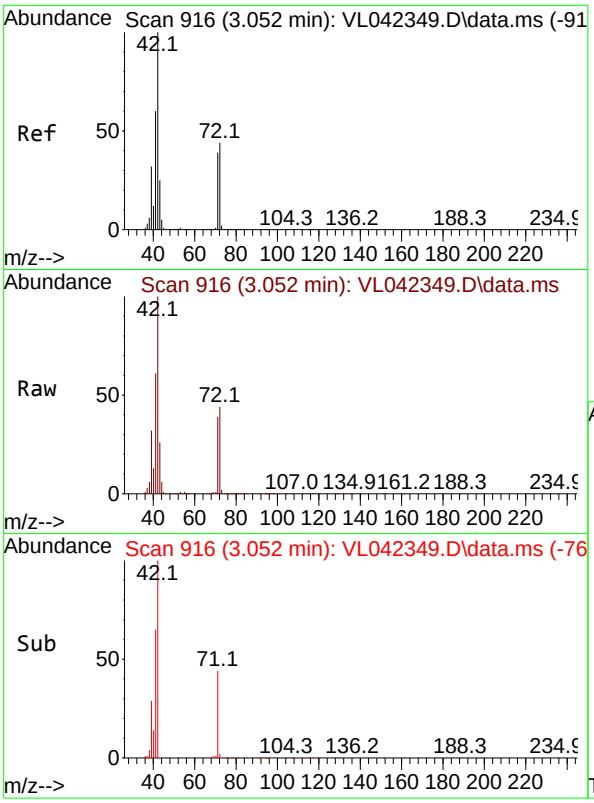


#40
1,4-Dioxane
Concen: 8.348 ppbv
RT: 4.580 min Scan# 1388
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

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



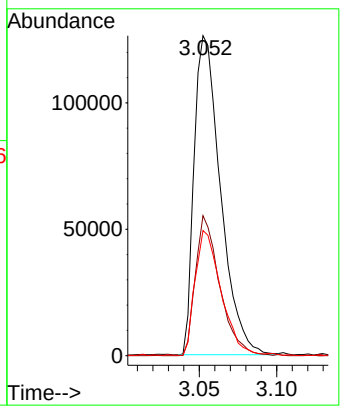


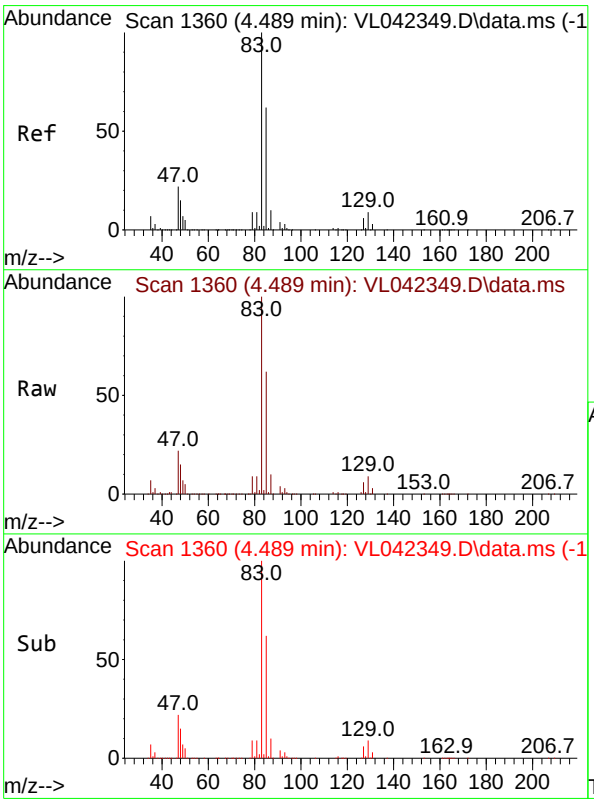
#41
Tetrahydrofuran
Concen: 8.950 ppbv
RT: 3.052 min Scan# 91
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

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

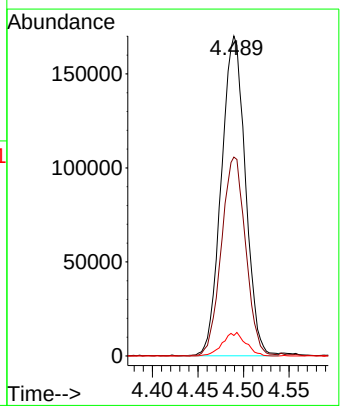


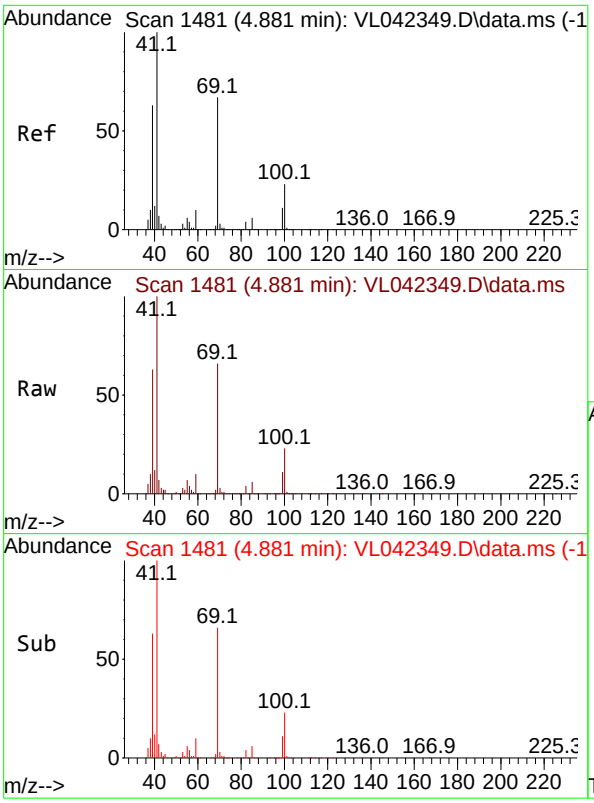


#42
Bromodichloromethane
Concen: 9.456 ppbv
RT: 4.489 min Scan# 1360
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

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



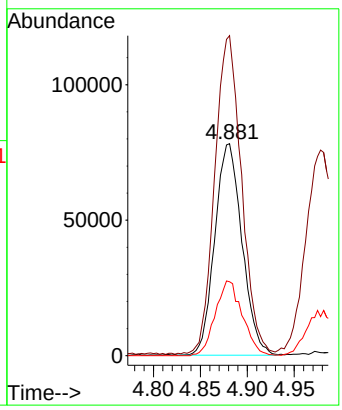


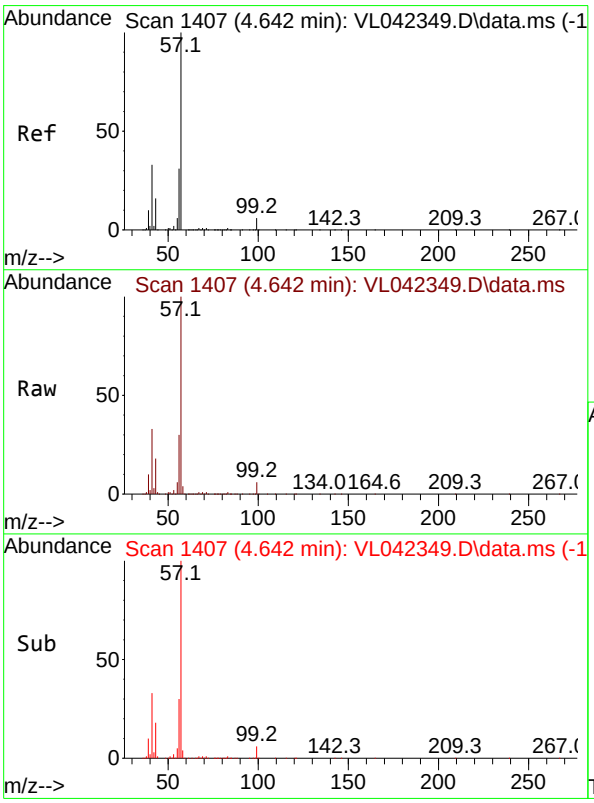
#43
Methyl Methacrylate
Concen: 8.876 ppbv
RT: 4.881 min Scan# 14
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

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

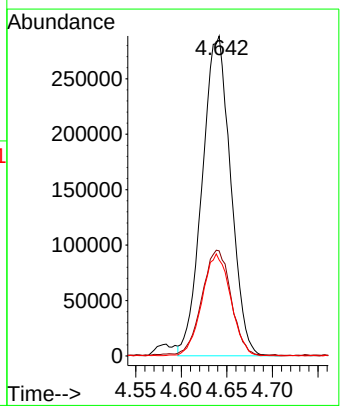


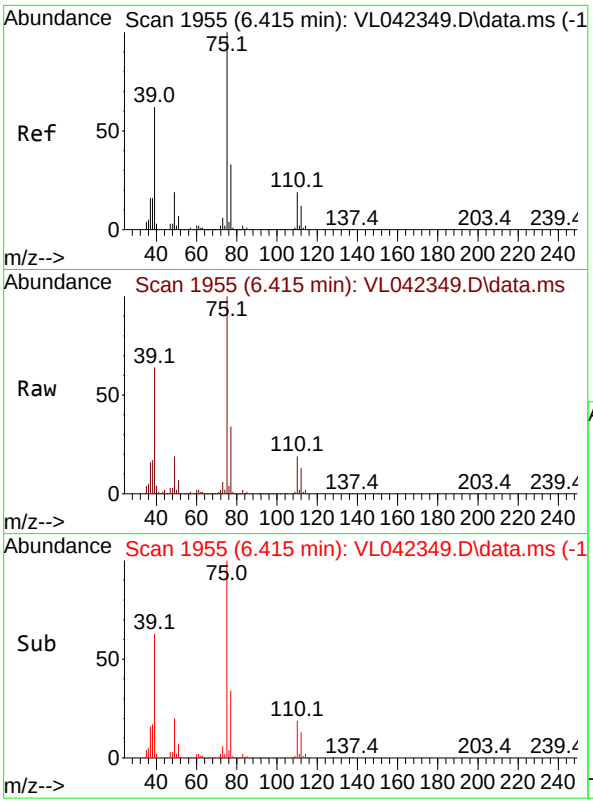


#44
2,2,4-Trimethylpentane
Concen: 9.157 ppbv
RT: 4.642 min Scan# 1407
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

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



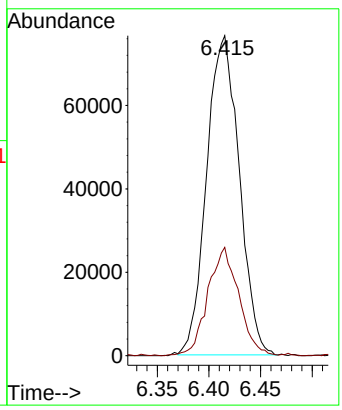


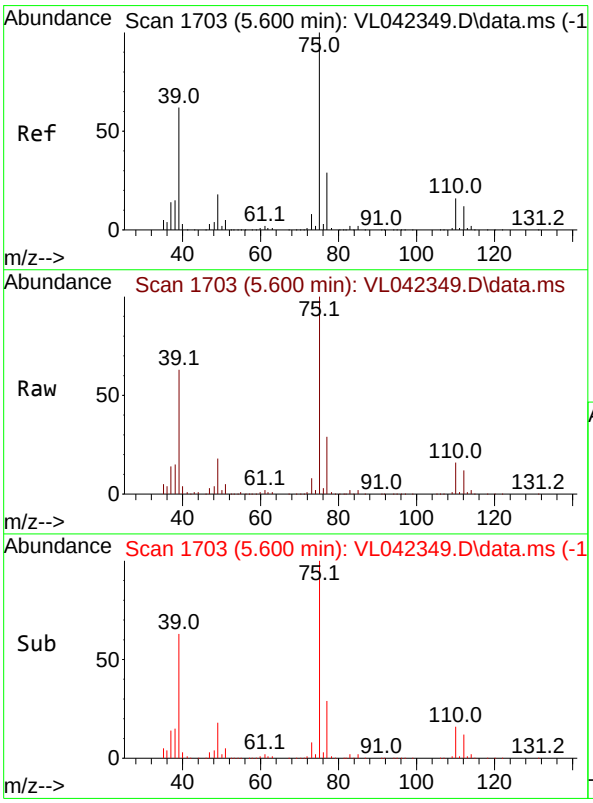
#45
t-1,3-Dichloropropene
Concen: 9.233 ppbv
RT: 6.415 min Scan# 1
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 75 Resp: 168223

Ion	Ratio	Lower	Upper
75	100		
77	33.8	27.0	40.6

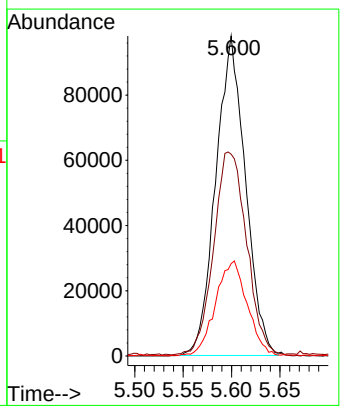


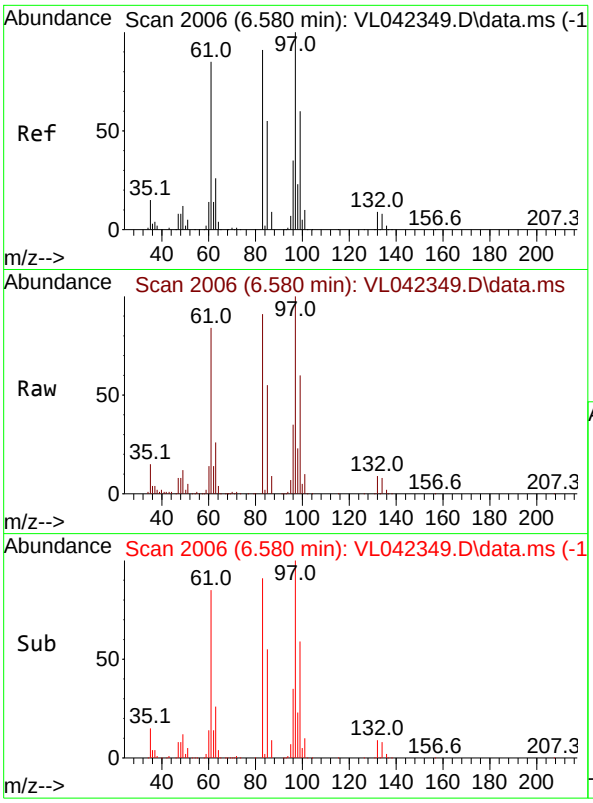


#46
cis-1,3-Dichloropropene
Concen: 9.377 ppbv
RT: 5.600 min Scan# 1703
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

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



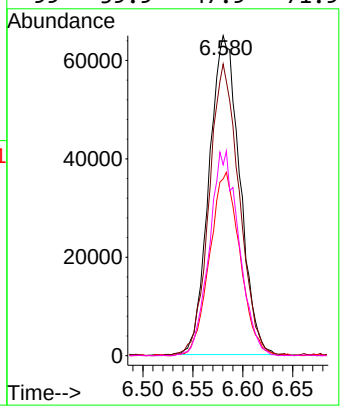


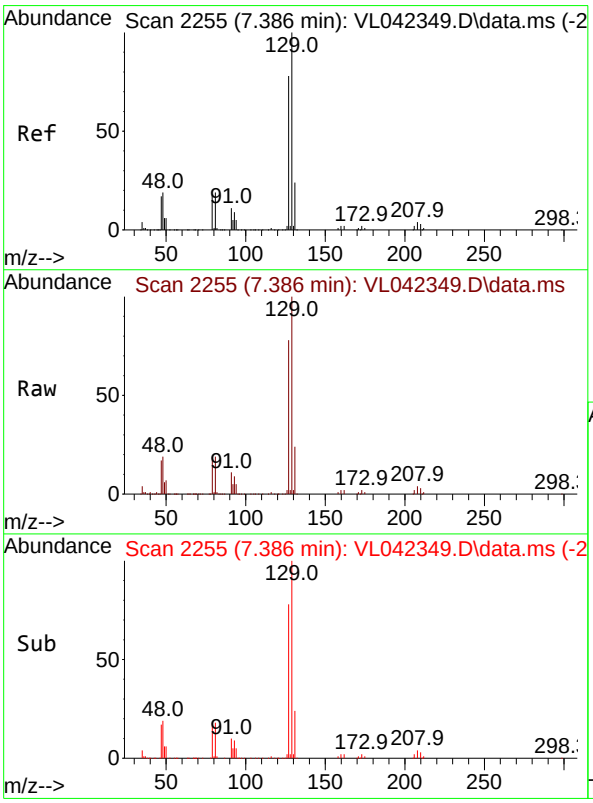
#47
1,1,2-Trichloroethane
Concen: 9.181 ppbv
RT: 6.580 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

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

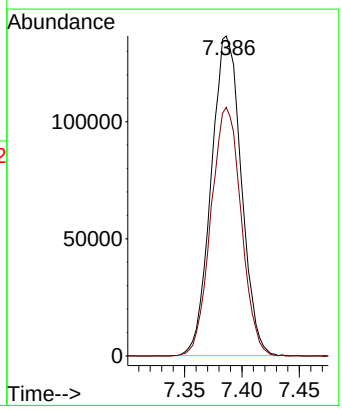


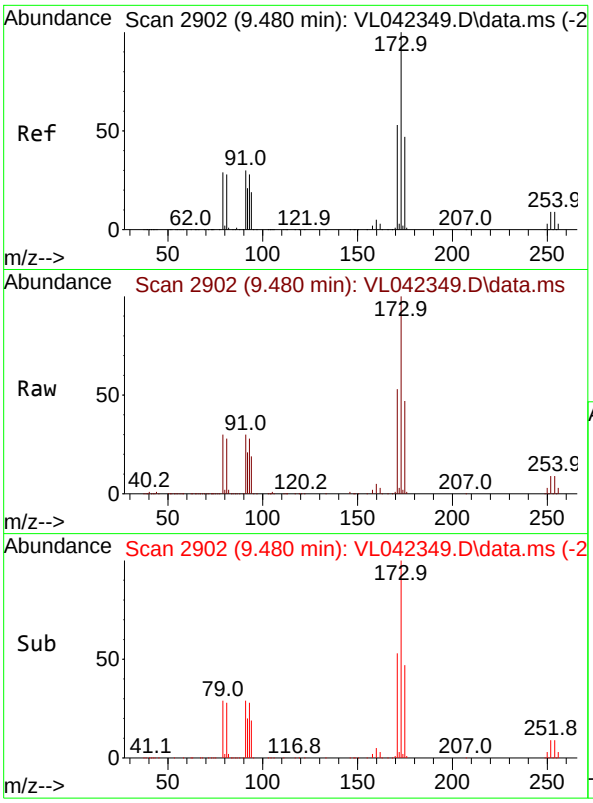


#48
Dibromochloromethane
Concen: 9.388 ppbv
RT: 7.386 min Scan# 2255
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion:129 Resp: 248954

Ion	Ratio	Lower	Upper
129	100		
127	78.2	39.1	117.3



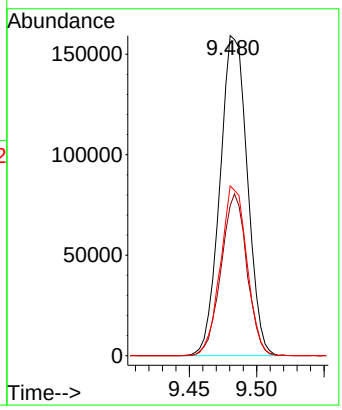


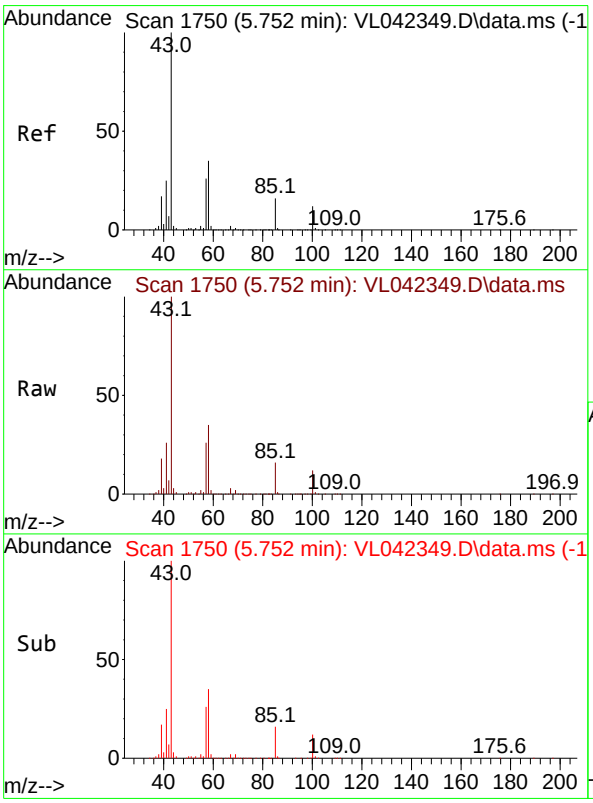
#49
Bromoform
Concen: 9.734 ppbv
RT: 9.480 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

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

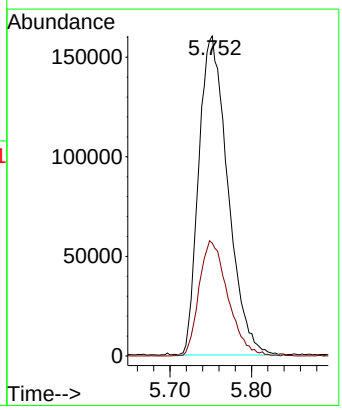


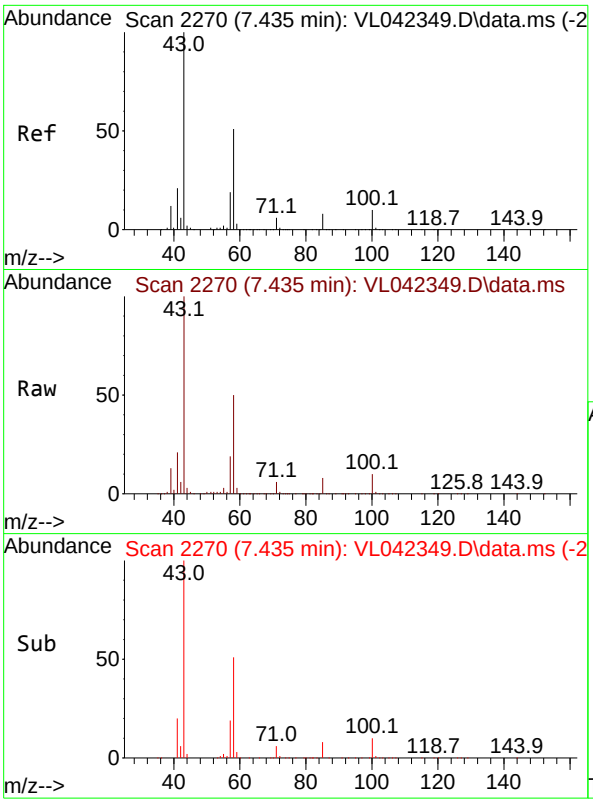


#50
4-Methyl-2-Pentanone
Concen: 8.215 ppbv
RT: 5.752 min Scan# 1750
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 43 Resp: 396548

Ion	Ratio	Lower	Upper
43	100		
58	35.8	28.6	43.0



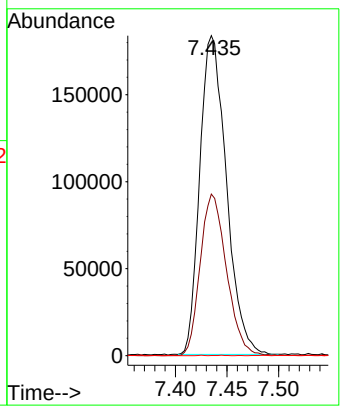


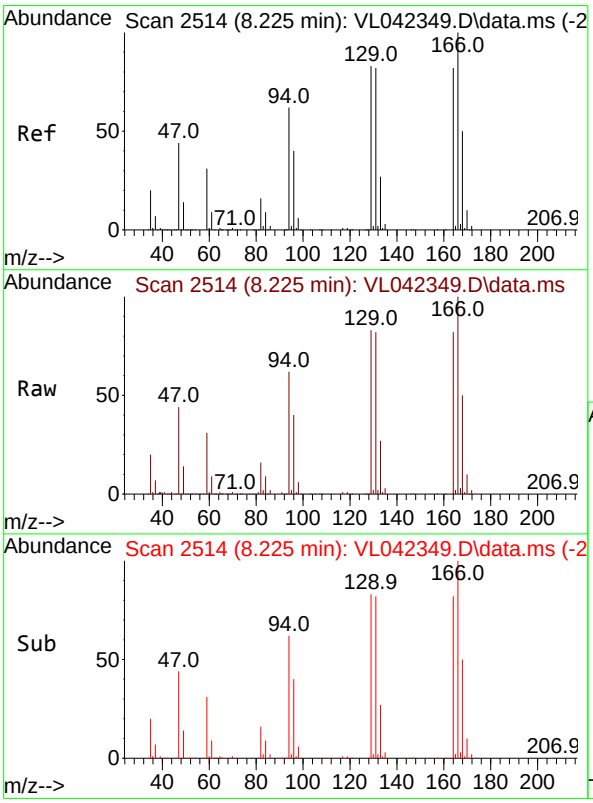
#51
2-Hexanone
Concen: 7.511 ppbv
RT: 7.435 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

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

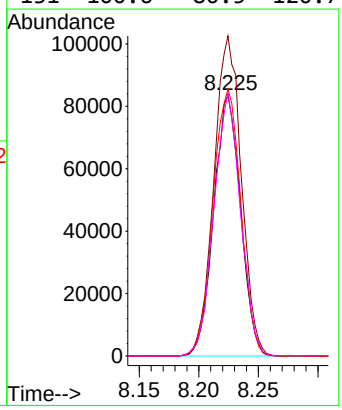


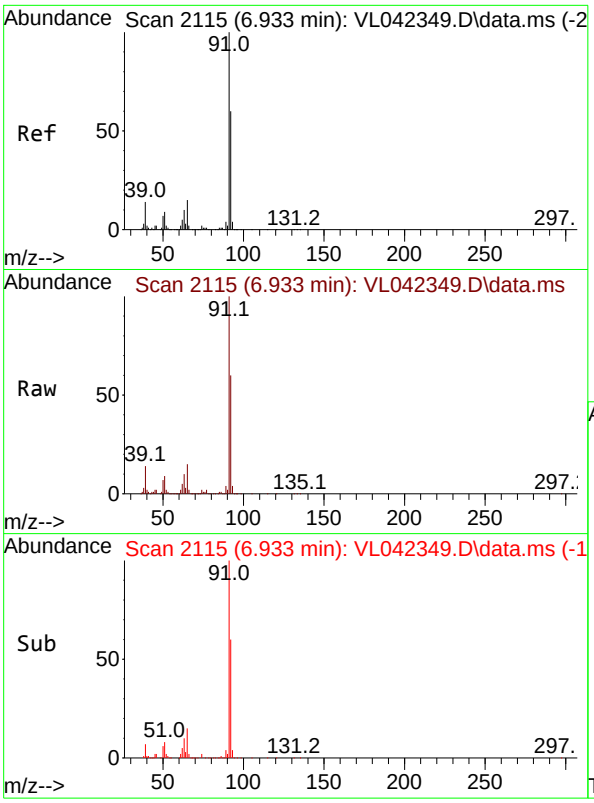


#52
Tetrachloroethene
Concen: 8.553 ppbv
RT: 8.225 min Scan# 2514
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

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



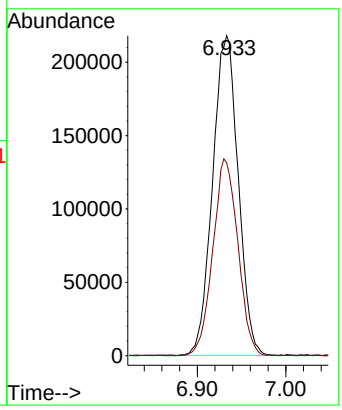


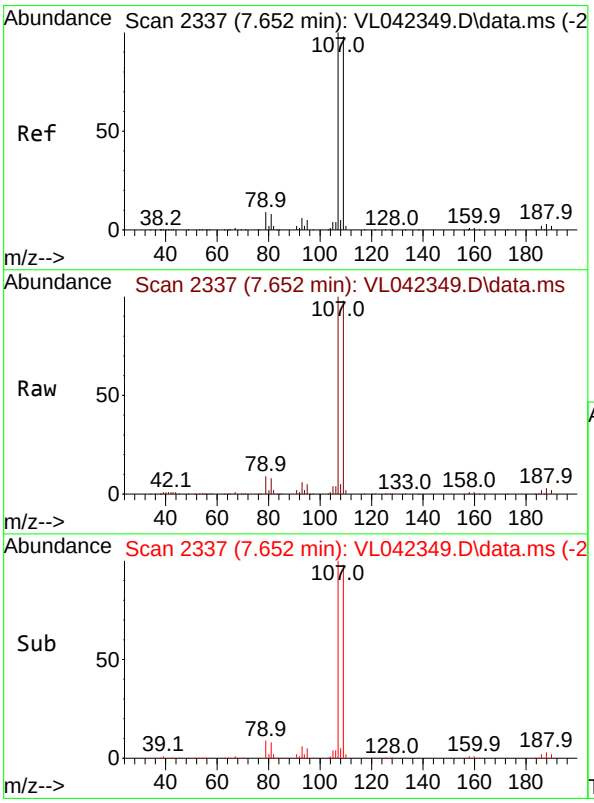
#53
Toluene
Concen: 9.216 ppbv
RT: 6.933 min Scan# 21
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 91 Resp: 437258

Ion	Ratio	Lower	Upper
91	100		
92	60.3	48.2	72.4

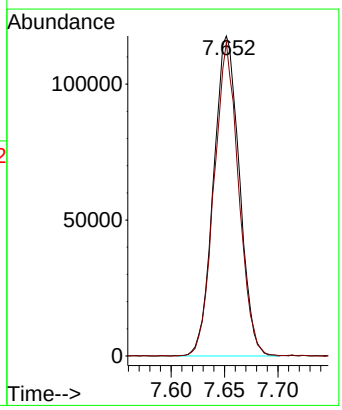


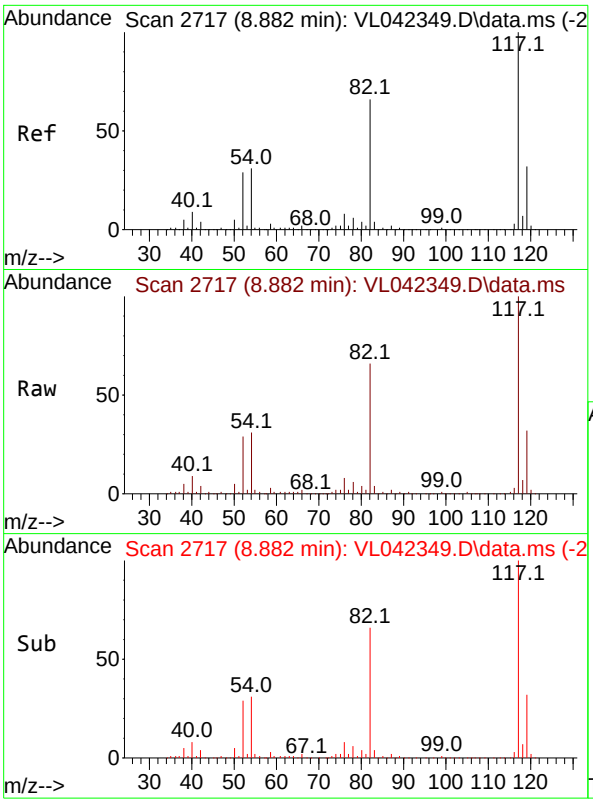


#54
1,2-Dibromoethane
Concen: 9.235 ppbv
RT: 7.652 min Scan# 2337
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion:107 Resp: 197665

Ion	Ratio	Lower	Upper
107	100		
109	97.8	78.2	117.4



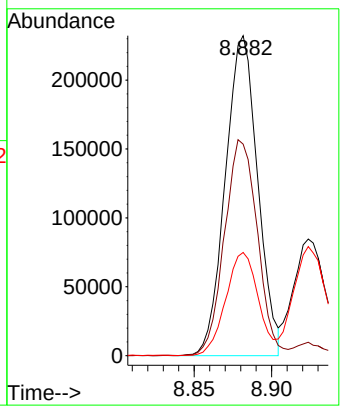


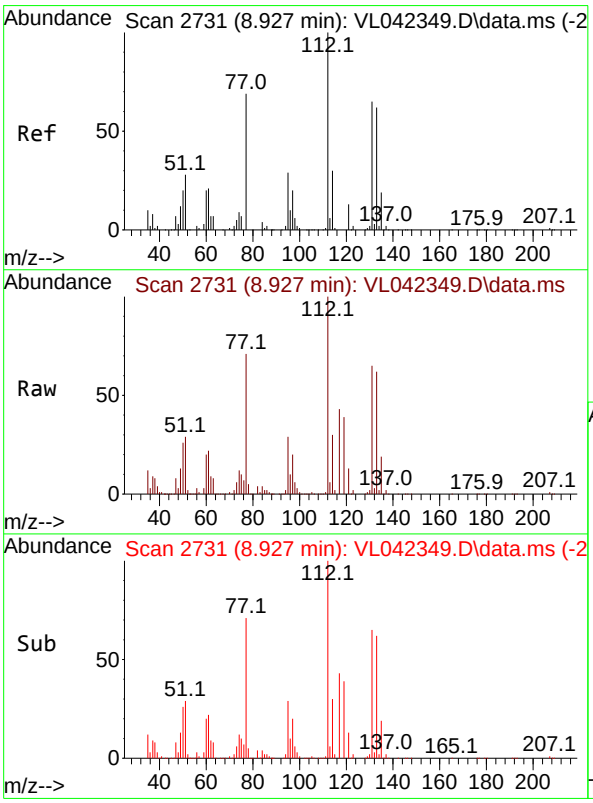
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.882 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

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

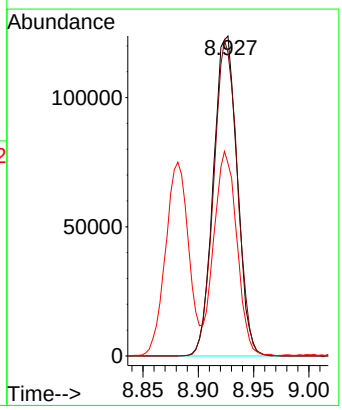


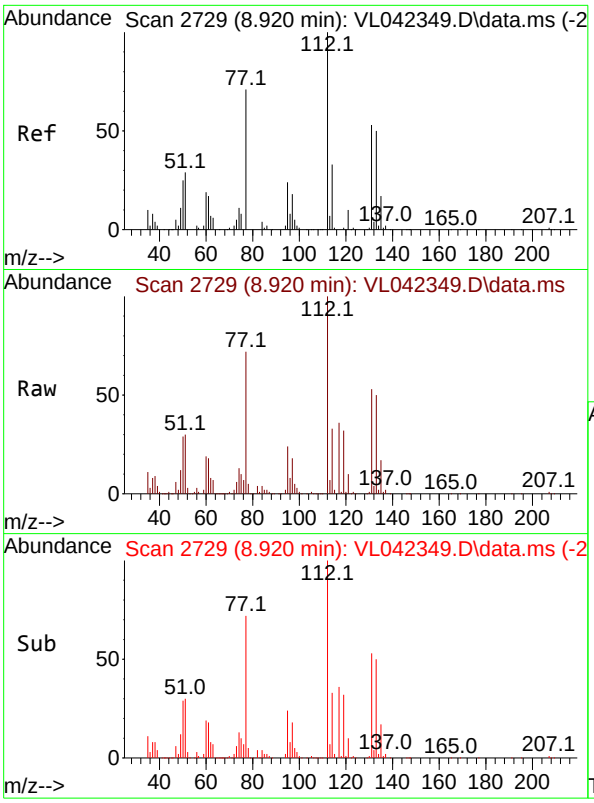


#56
1,1,1,2-Tetrachloroethane
Concen: 9.091 ppbv
RT: 8.927 min Scan# 2731
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

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



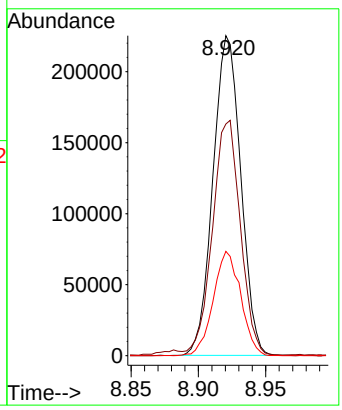


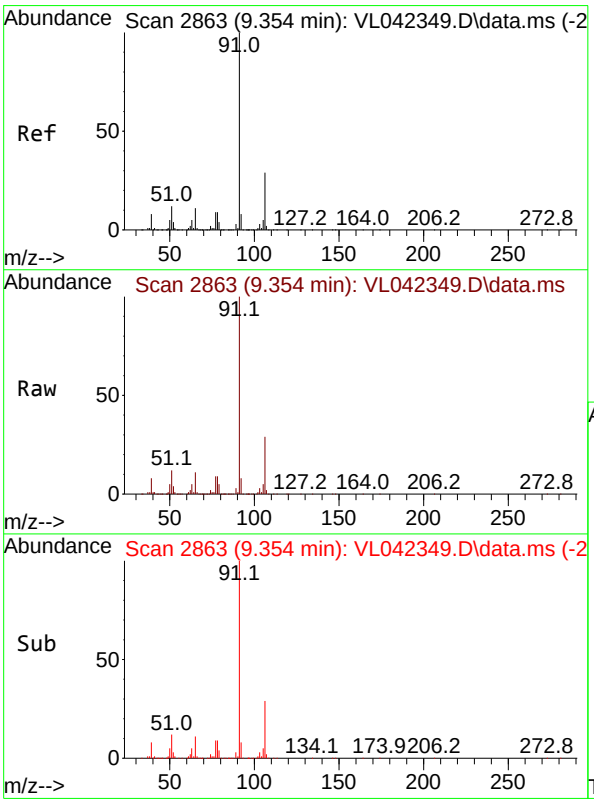
#57
Chlorobenzene
Concen: 9.187 ppbv
RT: 8.920 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

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

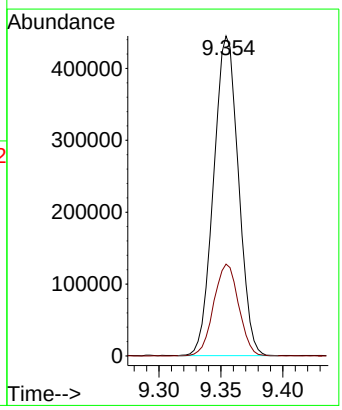


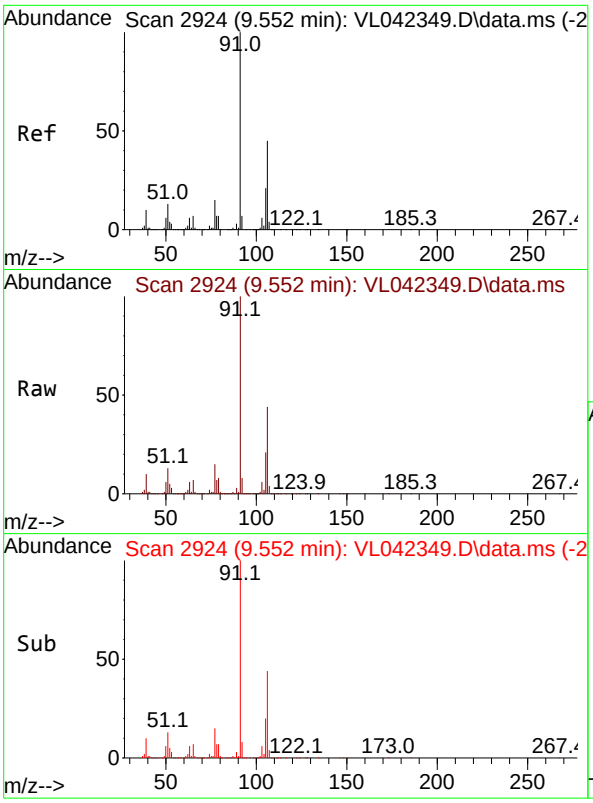


#58
Ethyl Benzene
Concen: 9.248 ppbv
RT: 9.354 min Scan# 2863
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 91 Resp: 619581

Ion	Ratio	Lower	Upper
91	100		
106	28.7	23.0	34.4



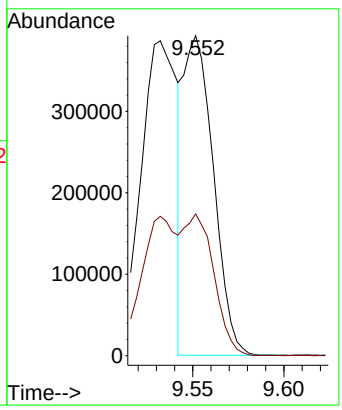


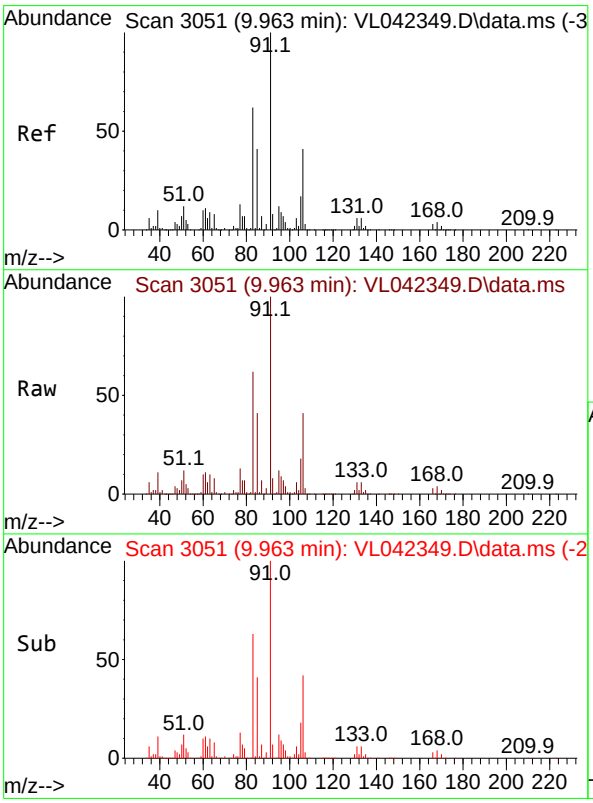
#59
m/p-Xylene
Concen: 8.299 ppbv
RT: 9.552 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 91 Resp: 449222

Ion	Ratio	Lower	Upper
91	100		
106	97.0	35.4	53.2#

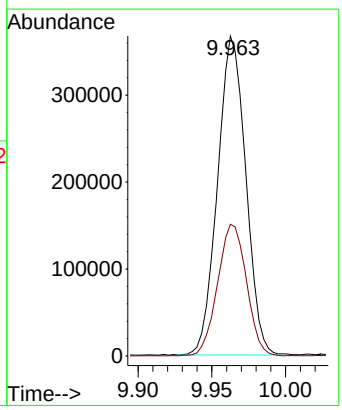


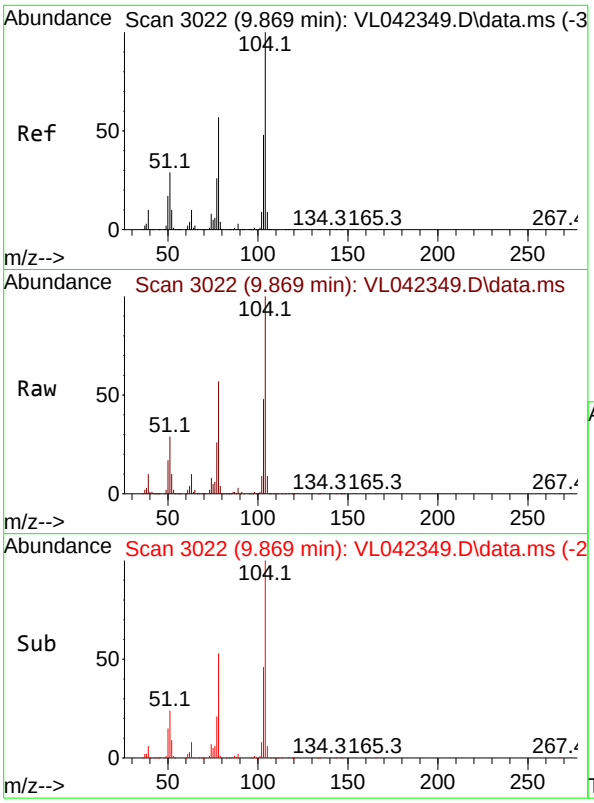


#60
o-Xylene
Concen: 8.972 ppbv
RT: 9.963 min Scan# 3051
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 91 Resp: 487616

Ion	Ratio	Lower	Upper
91	100		
106	42.3	21.1	63.4



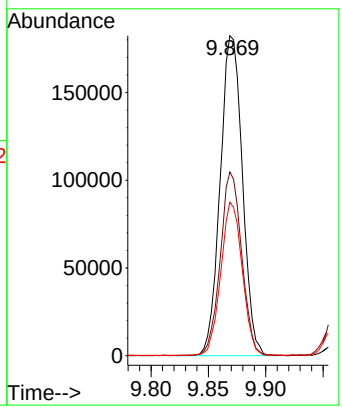


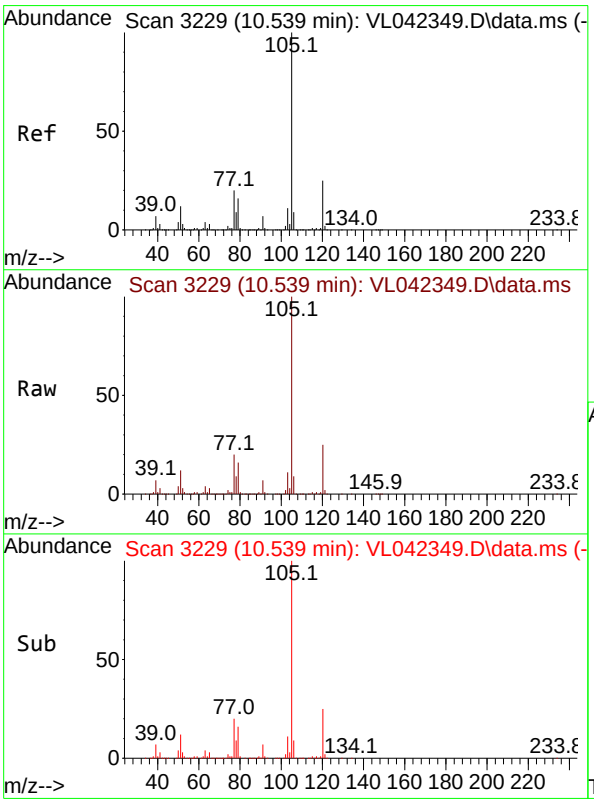
#61
Styrene
Concen: 9.464 ppbv
RT: 9.869 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

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

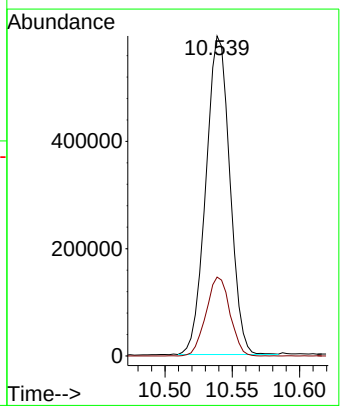


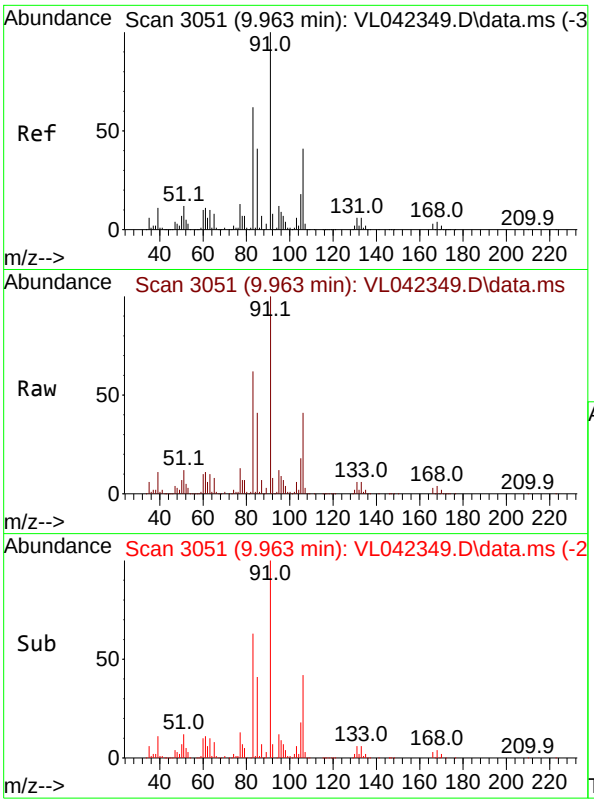


#62
Isopropylbenzene
Concen: 9.197 ppbv
RT: 10.539 min Scan# 3229
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion:105 Resp: 733788

Ion	Ratio	Lower	Upper
105	100		
120	24.8	19.8	29.8



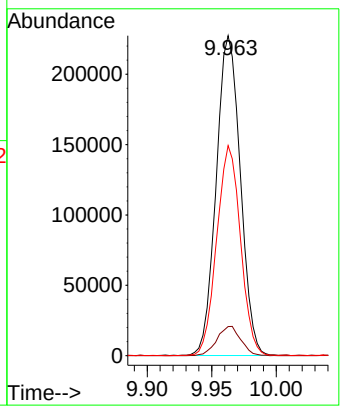


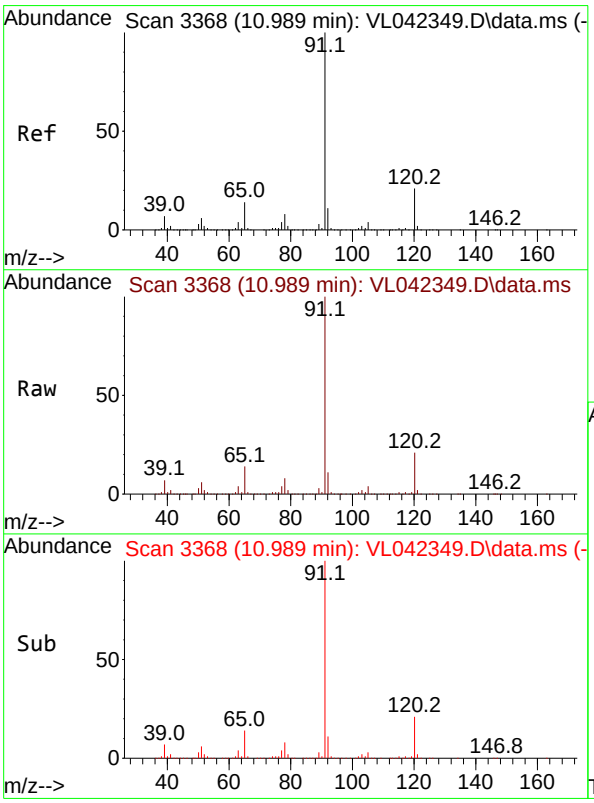
#63
1,1,2,2-Tetrachloroethane
Concen: 8.355 ppbv
RT: 9.963 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

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

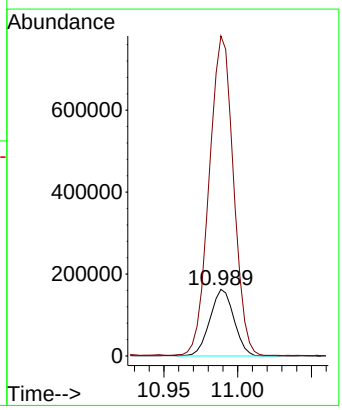


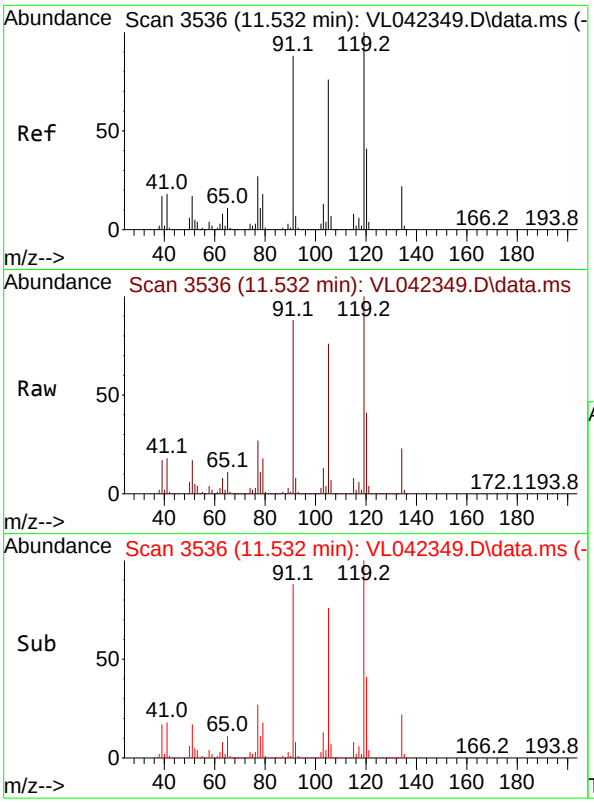


#64
n-propylbenzene
Concen: 9.144 ppbv
RT: 10.989 min Scan# 3368
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion:120 Resp: 183390

Ion	Ratio	Lower	Upper
120	100		
91	490.5	392.4	588.6



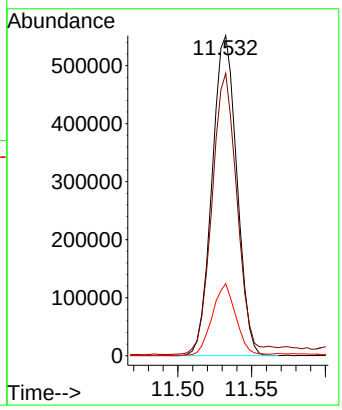


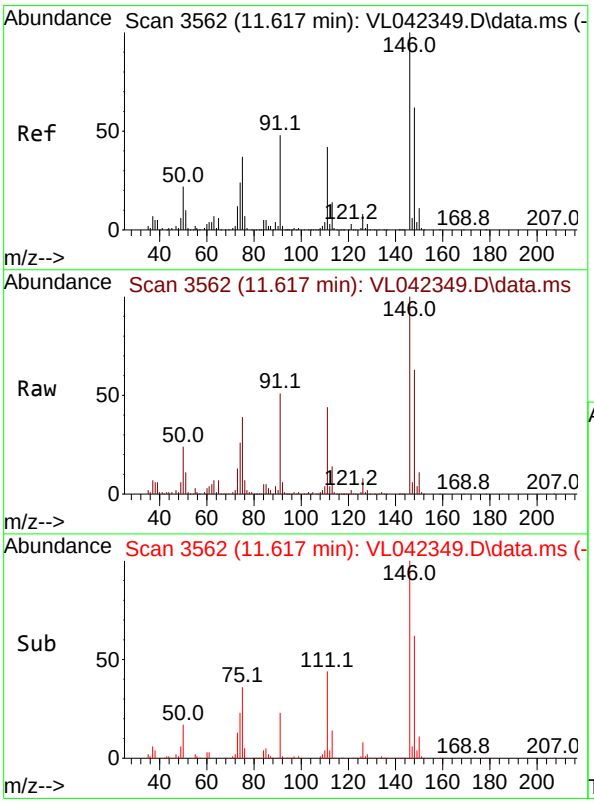
#65
tert-Butylbenzene
Concen: 8.795 ppbv
RT: 11.532 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

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

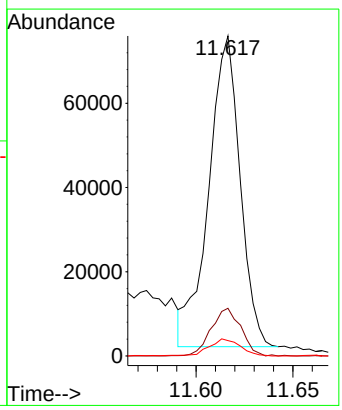


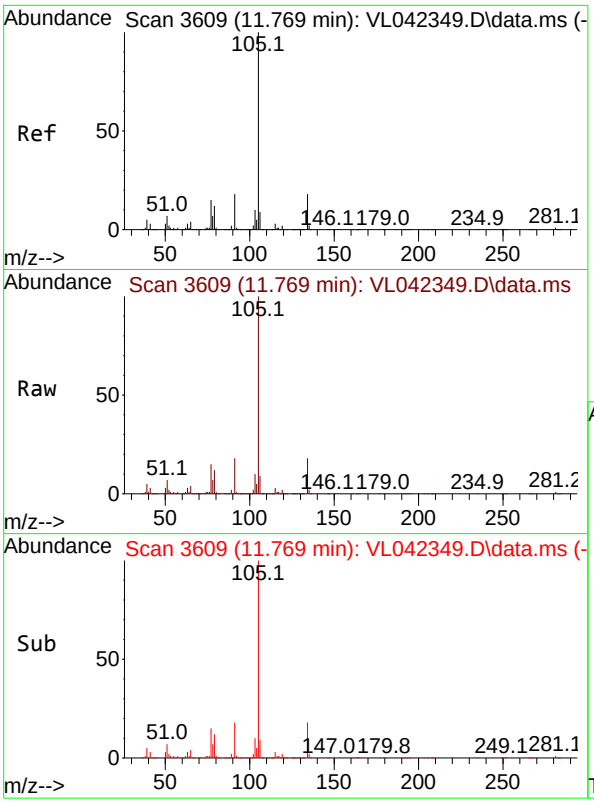


#66
Benzyl Chloride
Concen: 10.333 ppbv
RT: 11.617 min Scan# 3562
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

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



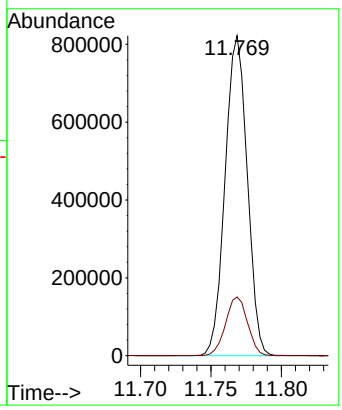


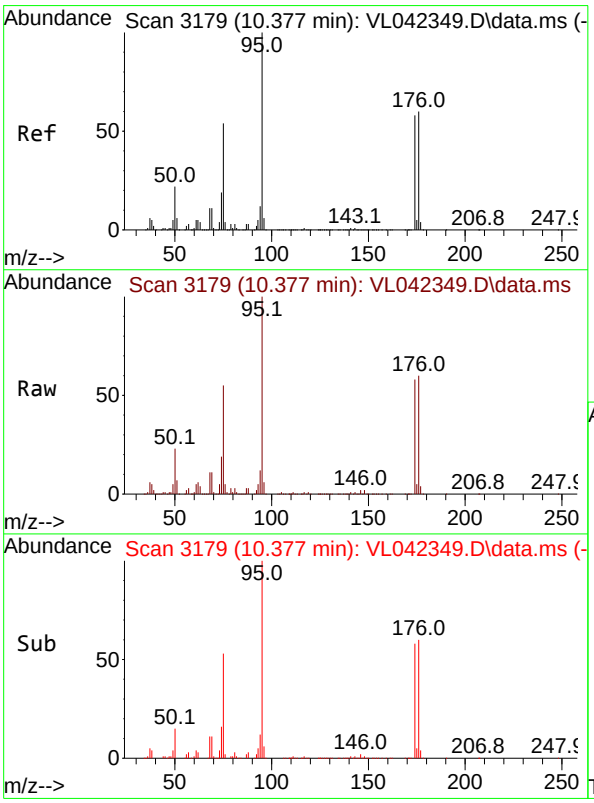
#67
sec-Butylbenzene
Concen: 8.824 ppbv
RT: 11.769 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion:105 Resp: 900074

Ion	Ratio	Lower	Upper
105	100		
134	18.2	14.6	21.8

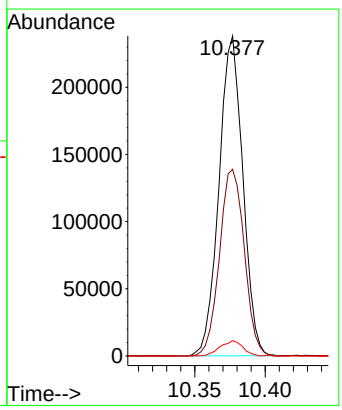


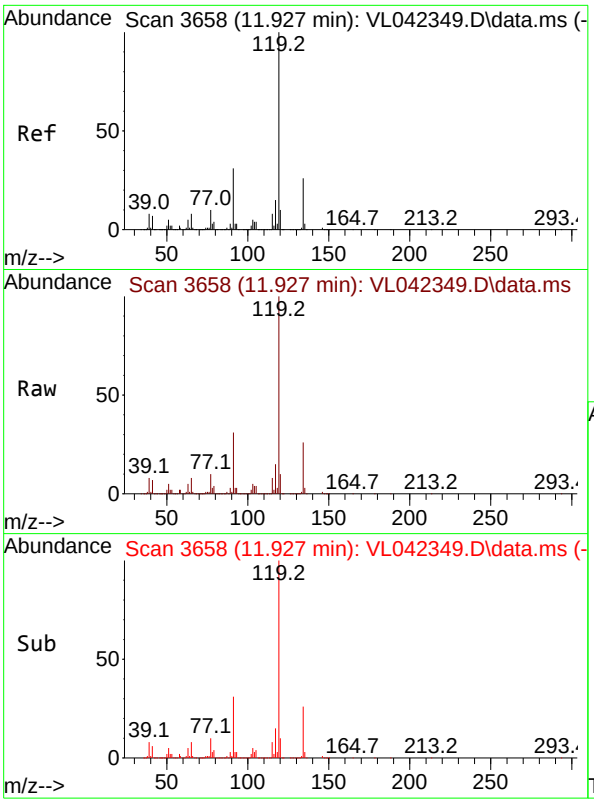


#68
1-Bromo-4-Fluorobenzene
Concen: 10.114 ppbv
RT: 10.377 min Scan# 3179
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

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



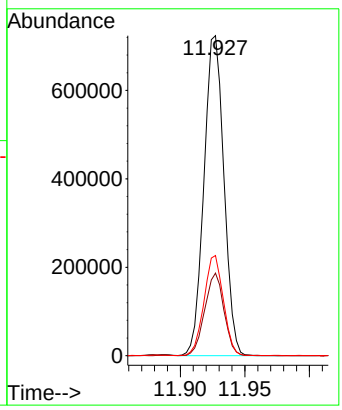


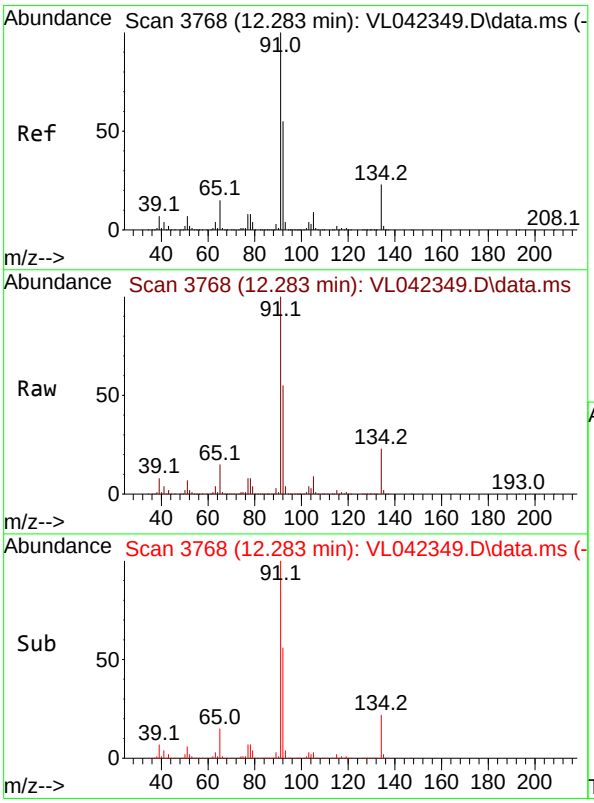
#69
p-Isopropyltoluene
Concen: 8.790 ppbv
RT: 11.927 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

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

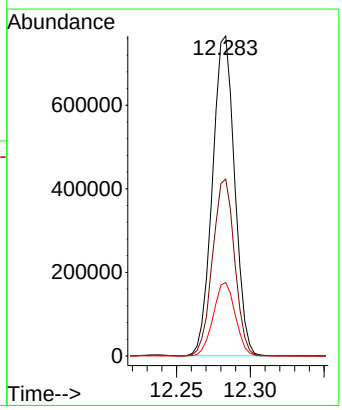


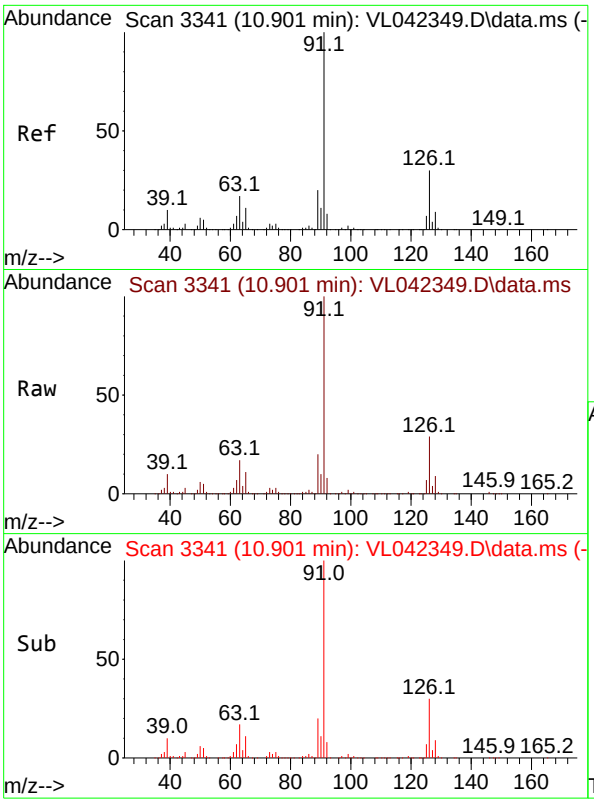


#70
n-Butylbenzene
Concen: 8.682 ppbv
RT: 12.283 min Scan# 3768
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

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



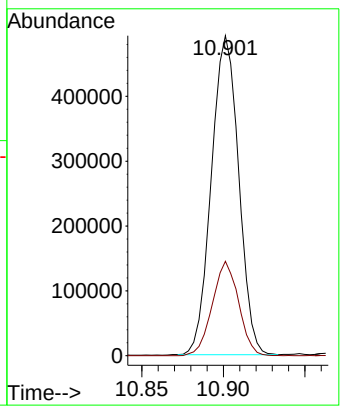


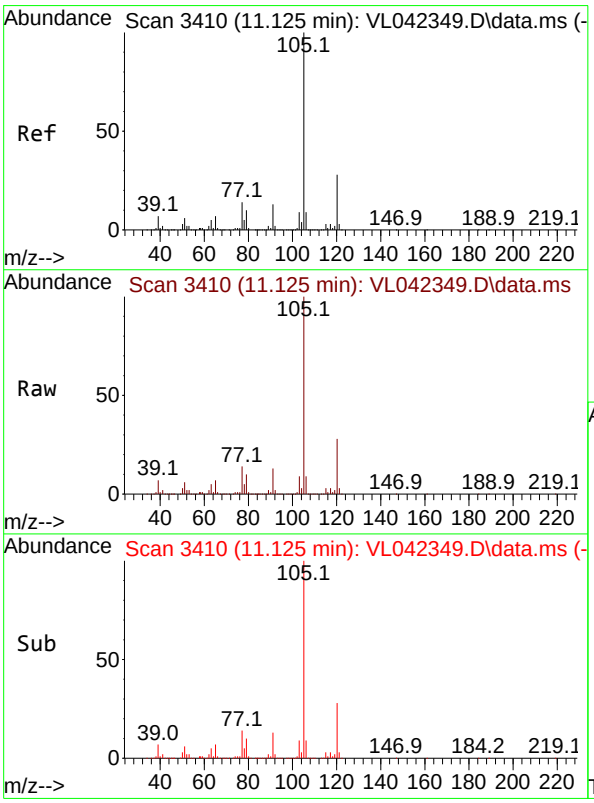
#71
2-Chlorotoluene
Concen: 9.157 ppbv
RT: 10.901 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 91 Resp: 573039

Ion	Ratio	Lower	Upper
91	100		
126	28.4	11.4	45.4

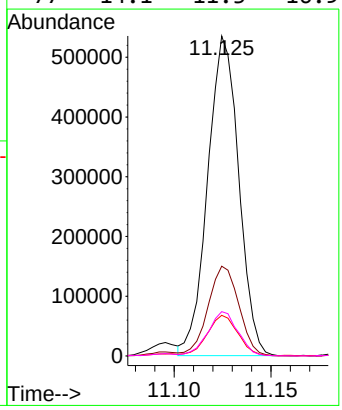


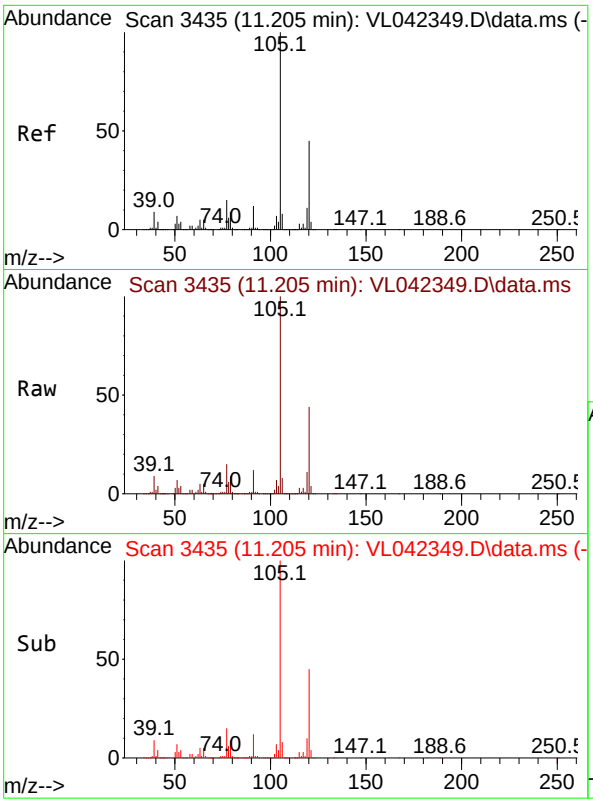


#72
4-Ethyltoluene
Concen: 8.982 ppbv
RT: 11.125 min Scan# 3410
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

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



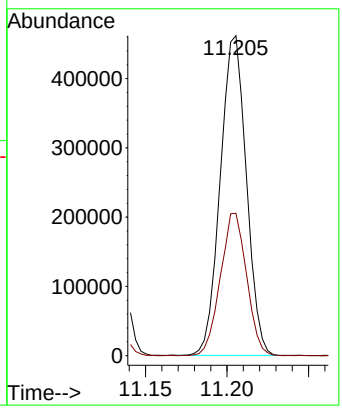


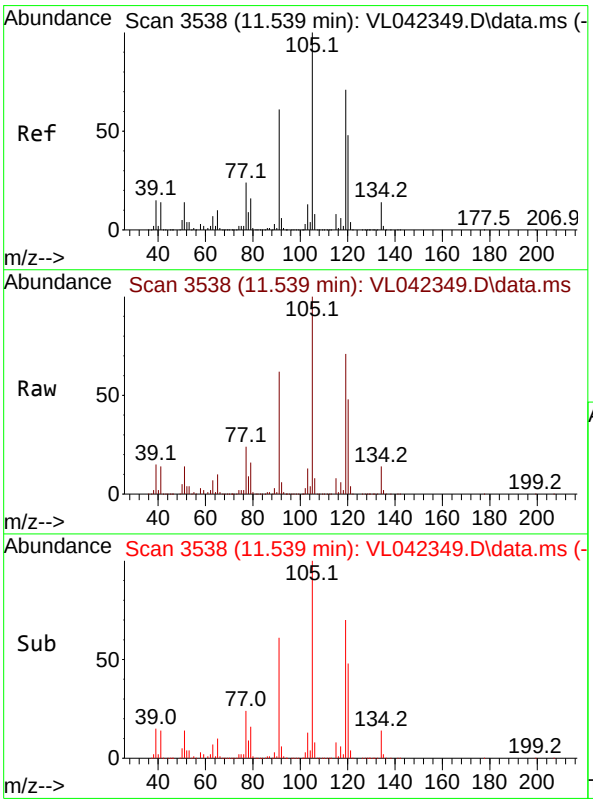
#73
1,3,5-Trimethylbenzene
Concen: 8.743 ppbv
RT: 11.205 min Scan# 34
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion:105 Resp: 512855

Ion	Ratio	Lower	Upper
105	100		
120	44.5	35.6	53.4

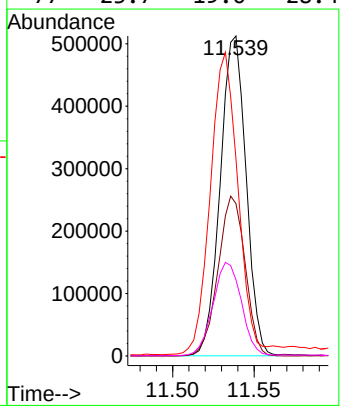


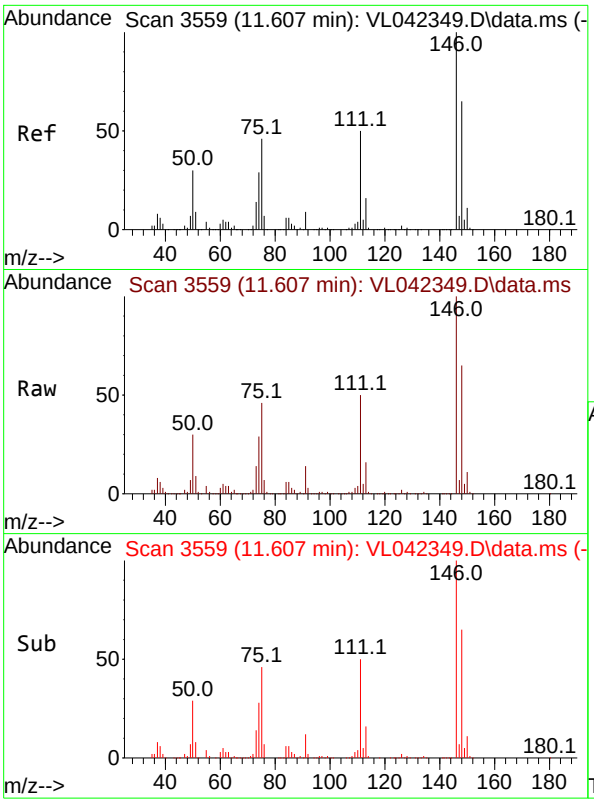


#74
1,2,4-Trimethylbenzene
Concen: 8.248 ppbv
RT: 11.539 min Scan# 3538
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

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



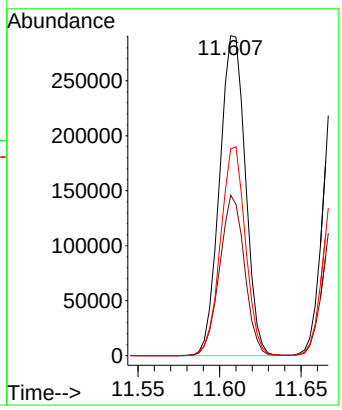


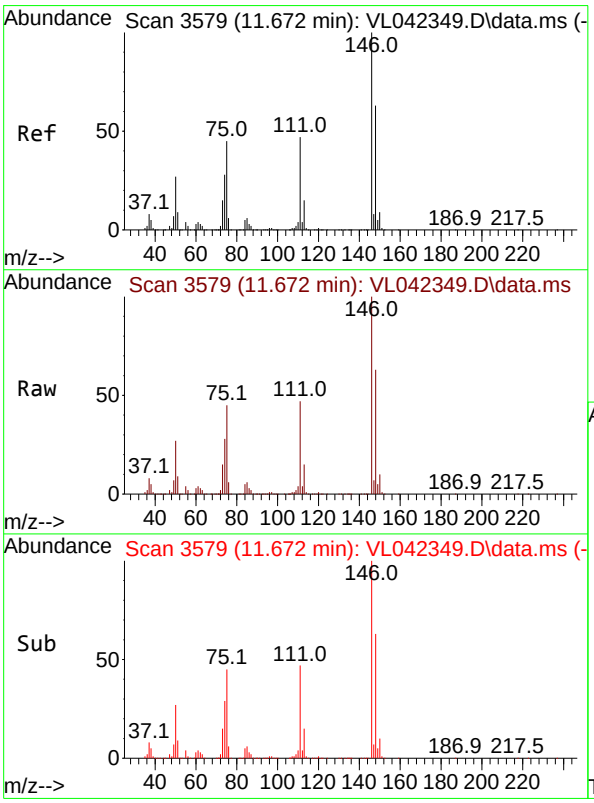
#75
1,3-Dichlorobenzene
Concen: 8.997 ppbv
RT: 11.607 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

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

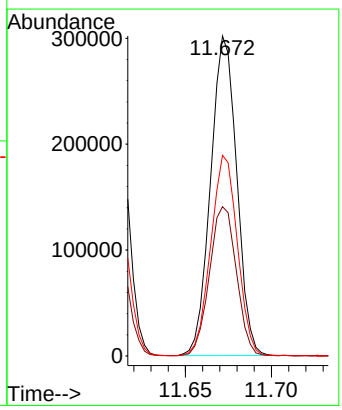


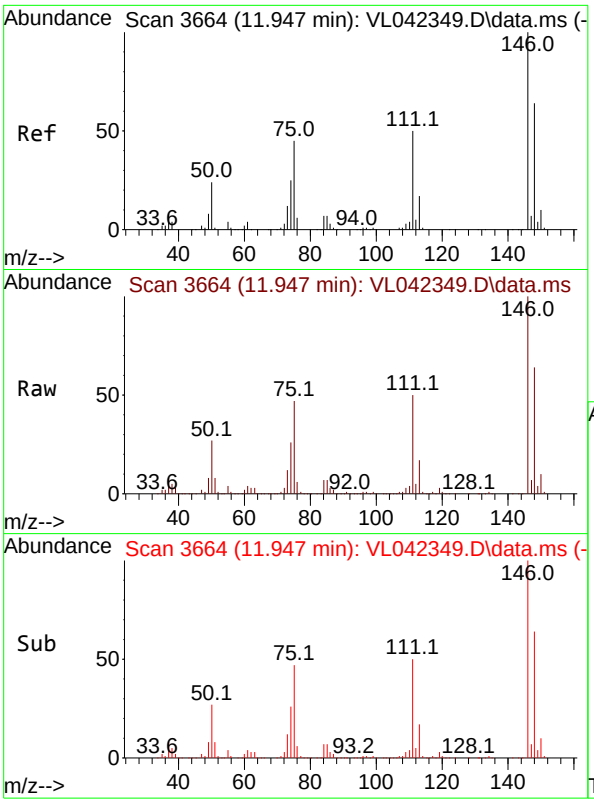


#76
1,4-Dichlorobenzene
Concen: 8.915 ppbv
RT: 11.672 min Scan# 3579
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

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



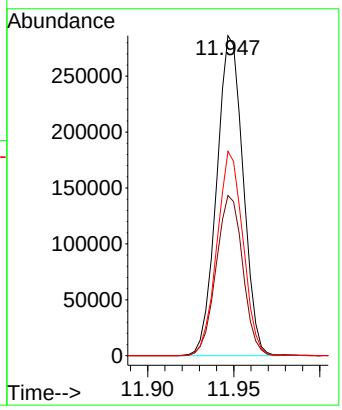


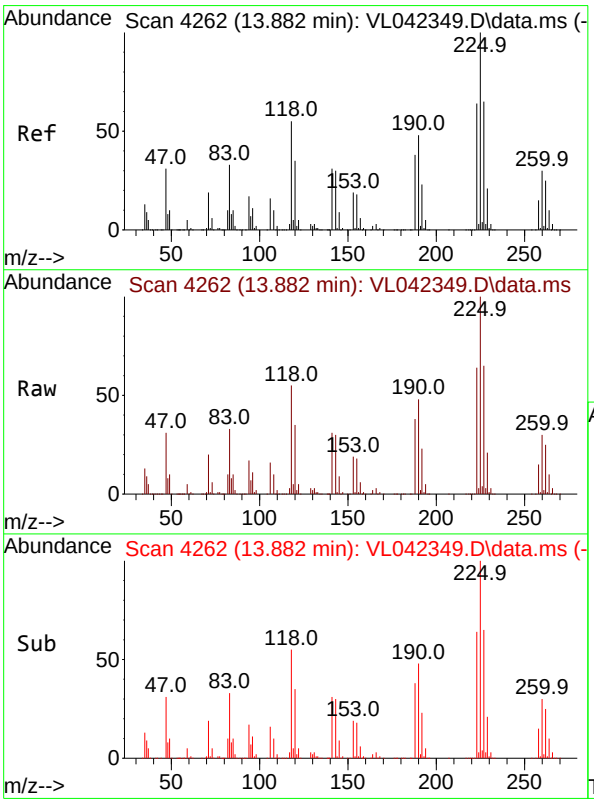
#77
1,2-Dichlorobenzene
Concen: 8.832 ppbv
RT: 11.947 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

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

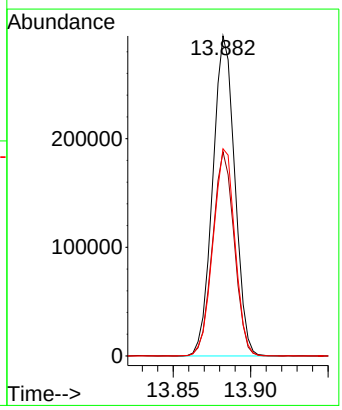


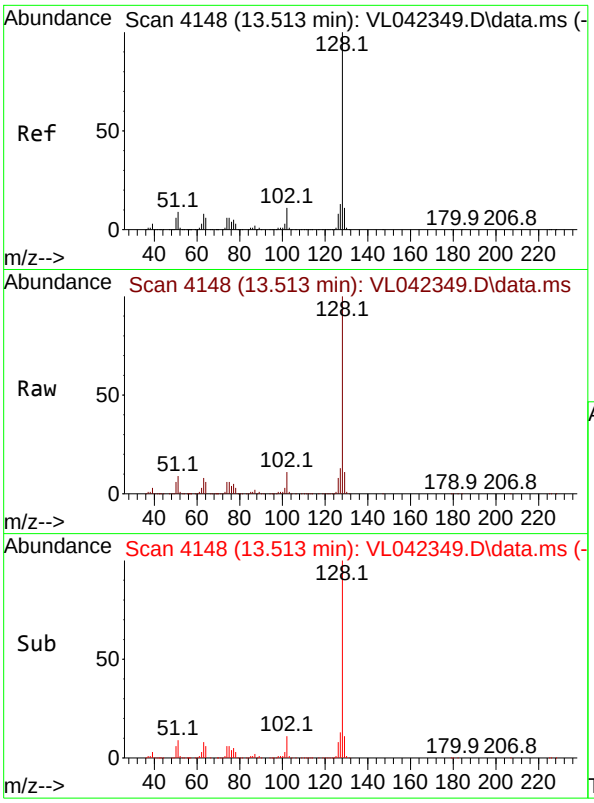


#78
Hexachloro-1,3-Butadiene
Concen: 8.346 ppbv
RT: 13.882 min Scan# 4262
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

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



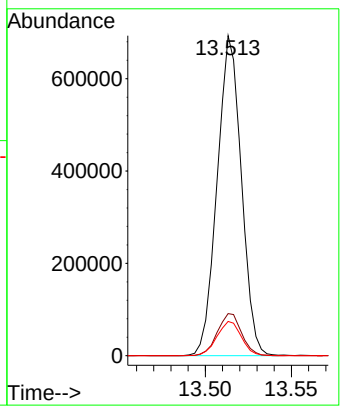


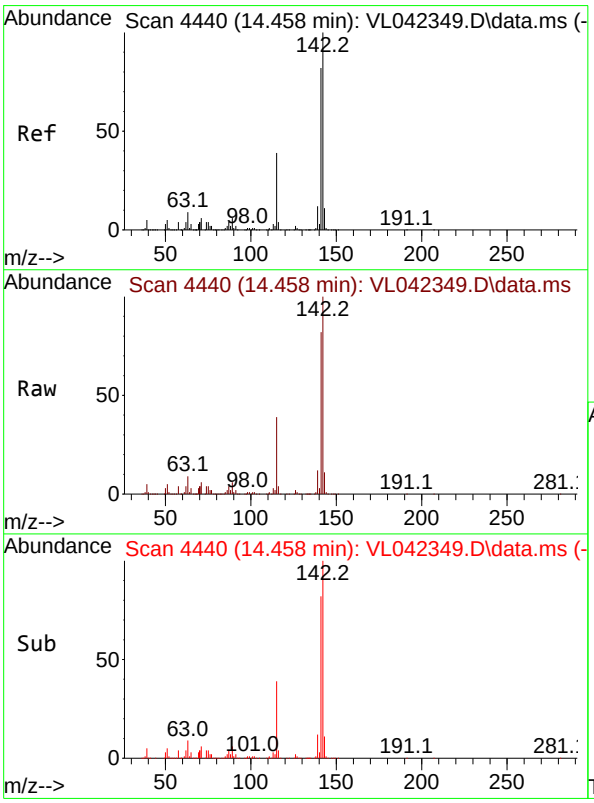
#79
Naphthalene
Concen: 8.271 ppbv
RT: 13.513 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

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

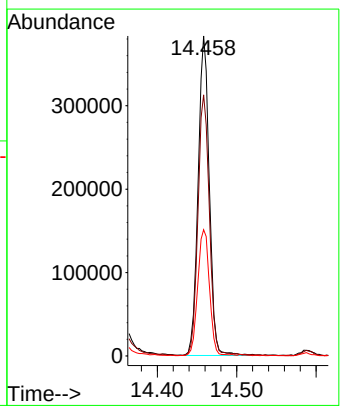


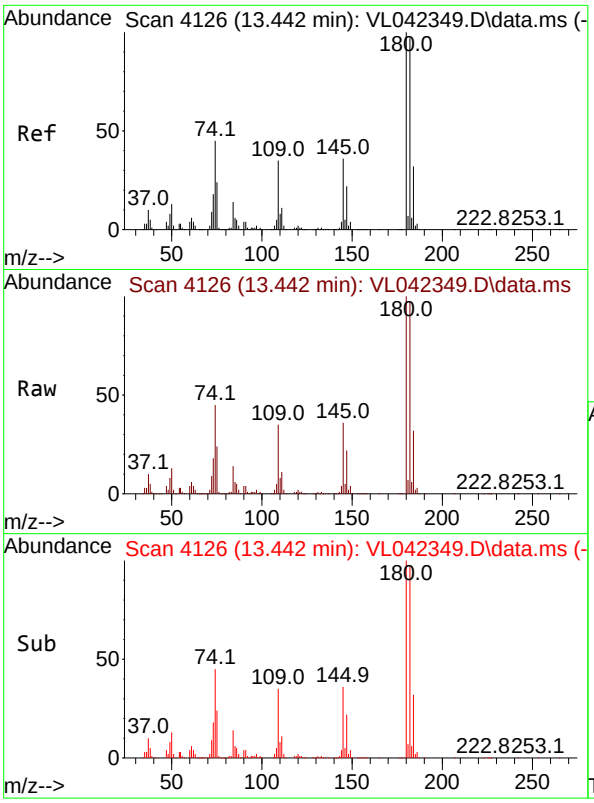


#80
Naphthalene,2-methyl-
Concen: 8.074 ppbv
RT: 14.458 min Scan# 4440
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

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



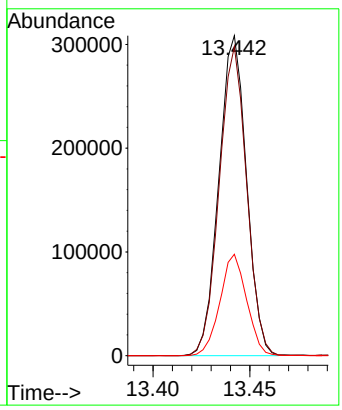


#81
1,2,4-Trichlorobenzene
Concen: 8.702 ppbv
RT: 13.442 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

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

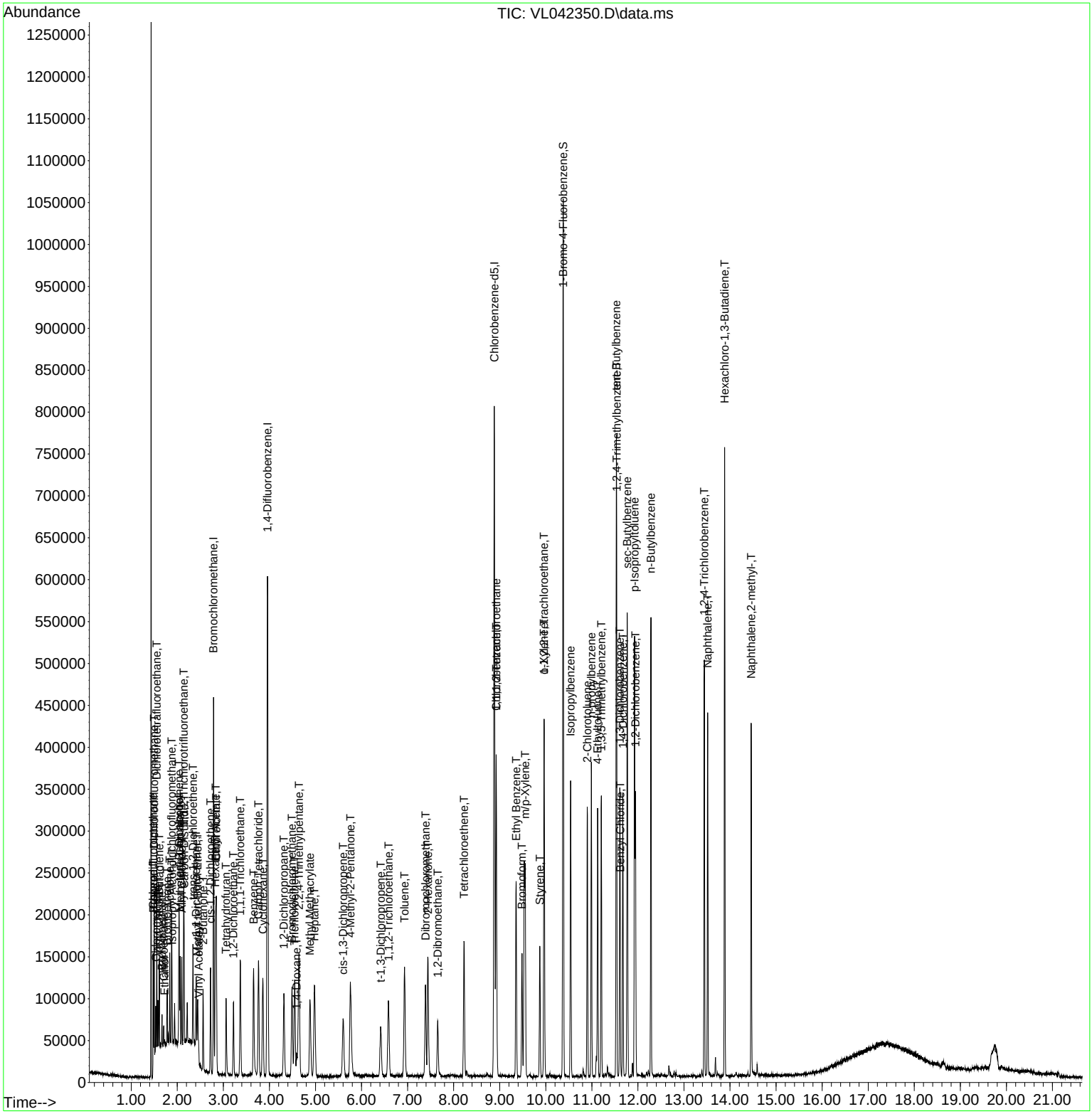
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46)	cis-1,3-Dichloropropene	5.600	75	25569	1.183	ppbv		90
47)	1,1,2-Trichloroethane	6.590	97	29879	2.049	ppbv		88
48)	Dibromochloromethane	7.389	129	53069	2.061	ppbv		100
49)	Bromoform	9.483	173	48069	2.135	ppbv		97
50)	4-Methyl-2-Pentanone	5.758	43	102182	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

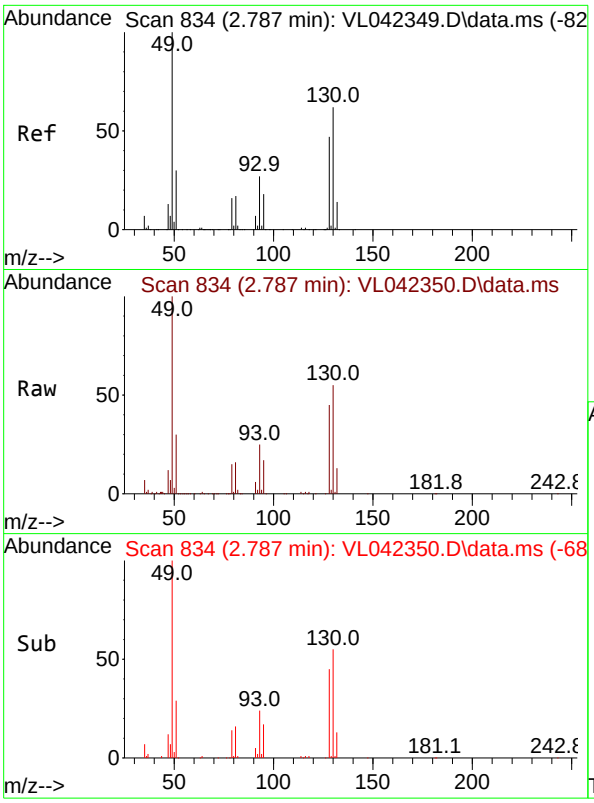
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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



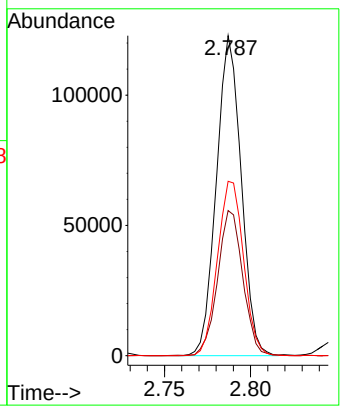


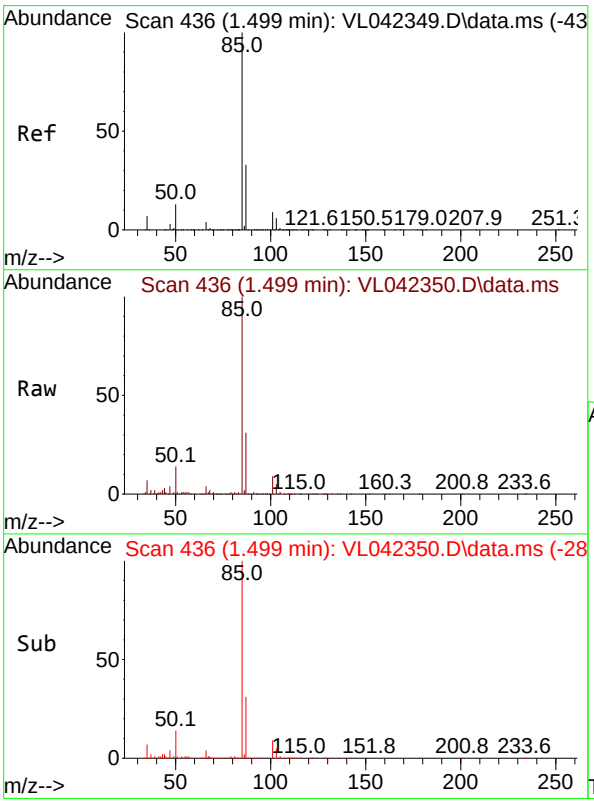
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

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

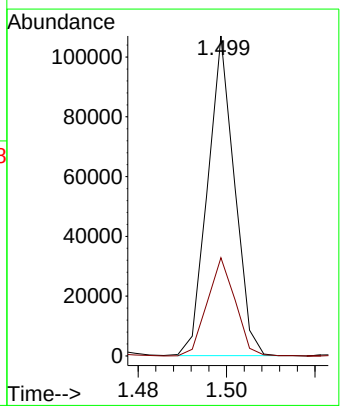


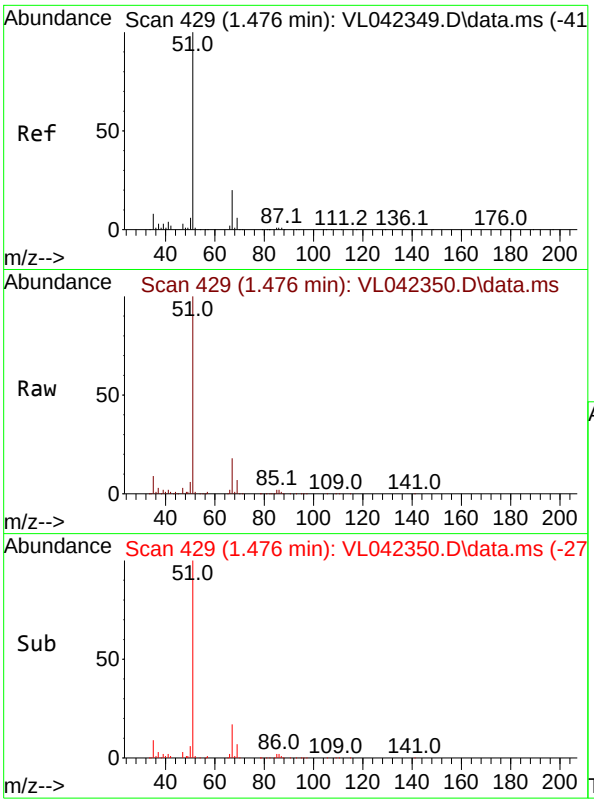


#2
Dichlorodifluoromethane
Concen: 2.068 ppbv
RT: 1.499 min Scan# 436
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 85 Resp: 45008

Ion	Ratio	Lower	Upper
85	100		
87	30.6	26.6	39.8



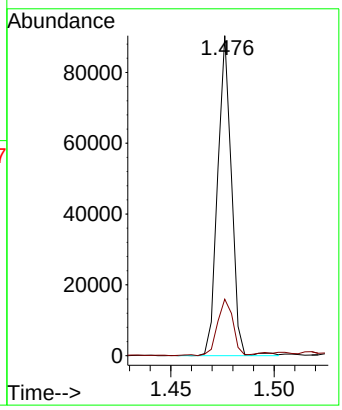


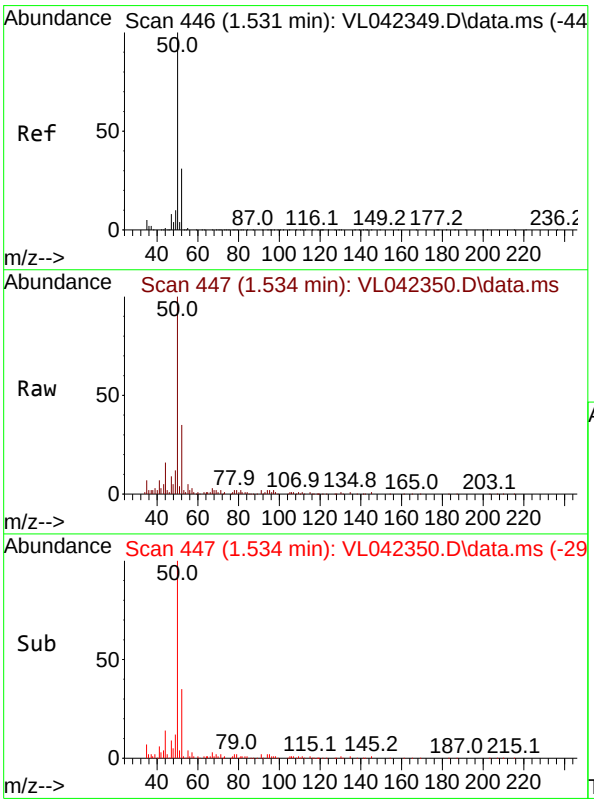
#3
Chlorodifluoromethane
Concen: 2.019 ppbv
RT: 1.476 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 51 Resp: 41853

Ion	Ratio	Lower	Upper
51	100		
67	21.7	16.2	24.4

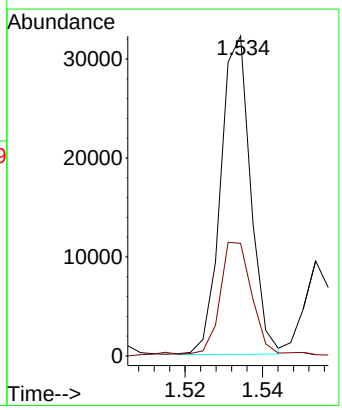


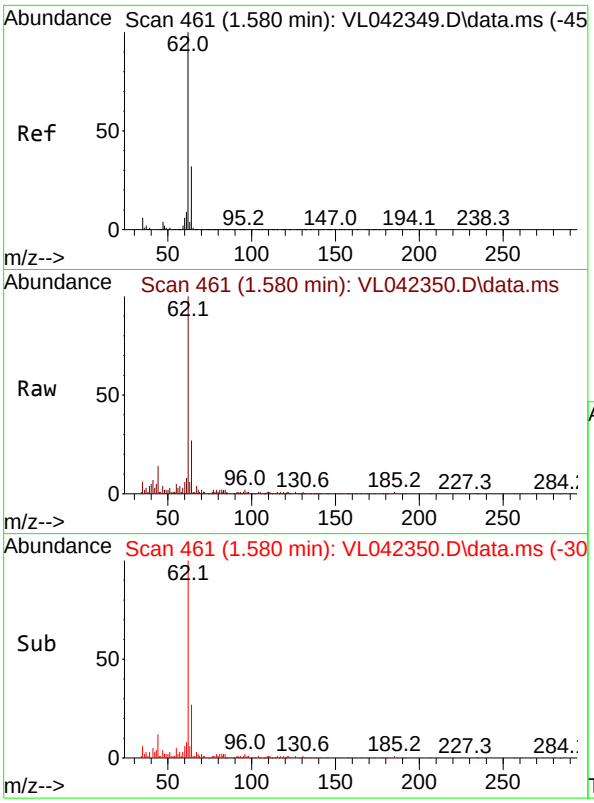


#4
Chloromethane
Concen: 2.005 ppbv
RT: 1.534 min Scan# 447
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 50 Resp: 17272

Ion	Ratio	Lower	Upper
50	100		
52	34.9	24.7	37.1



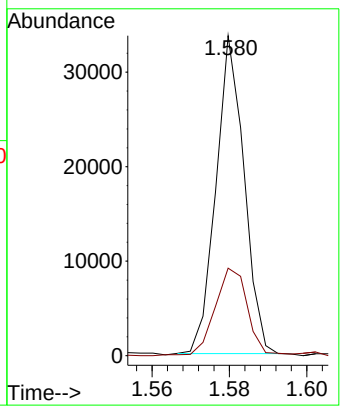


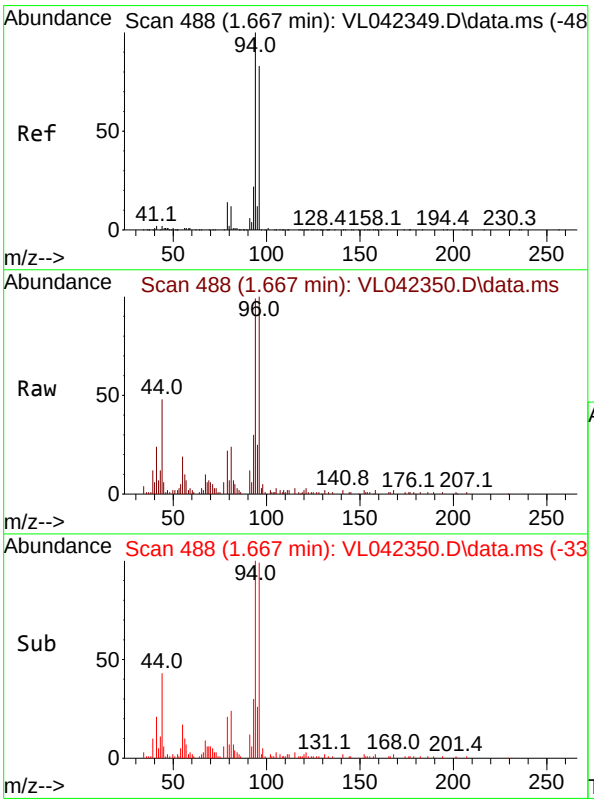
#5
Vinyl Chloride
Concen: 1.811 ppbv
RT: 1.580 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 62 Resp: 16979

Ion	Ratio	Lower	Upper
62	100		
64	27.2	25.4	38.0

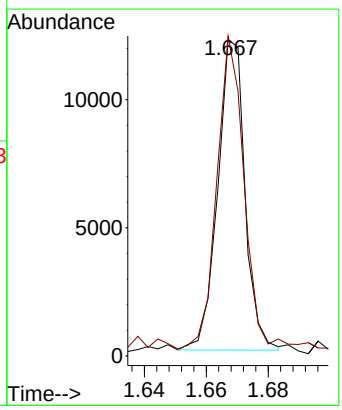


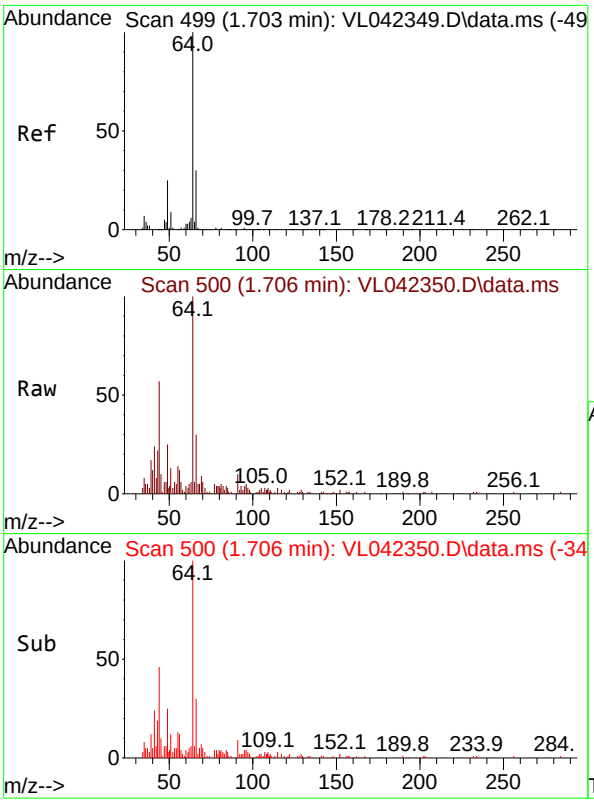


#6
Bromomethane
Concen: 1.821 ppbv
RT: 1.667 min Scan# 488
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 94 Resp: 7398

Ion	Ratio	Lower	Upper
94	100		
96	100.8	66.2	99.2#



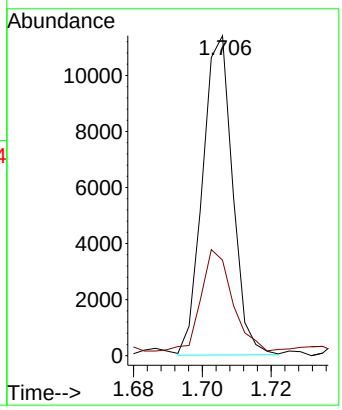


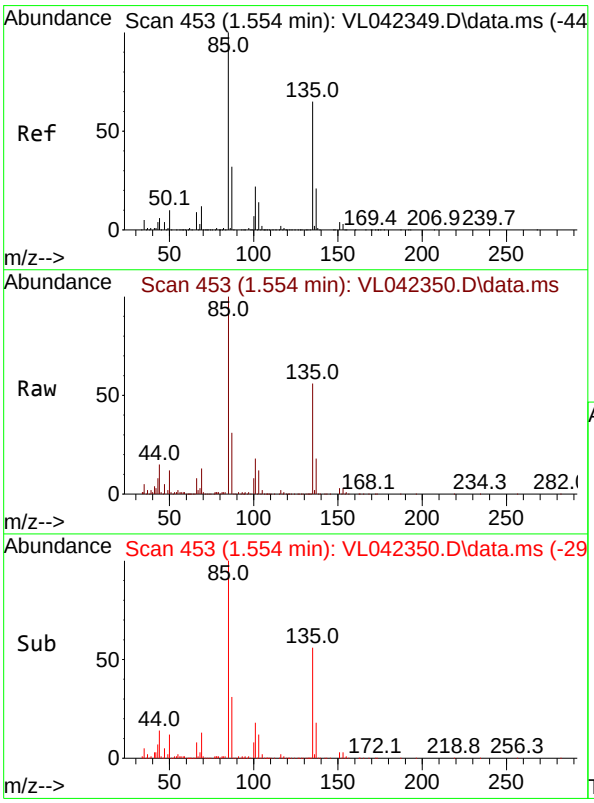
#7
Chloroethane
Concen: 2.031 ppbv
RT: 1.706 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 64 Resp: 6889

Ion	Ratio	Lower	Upper
64	100		
66	29.8	24.6	37.0

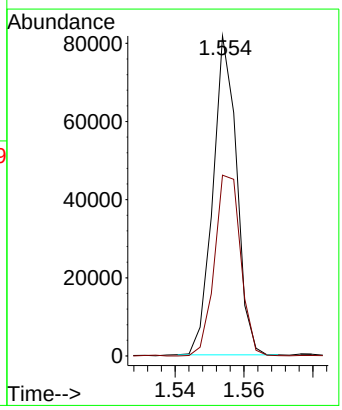


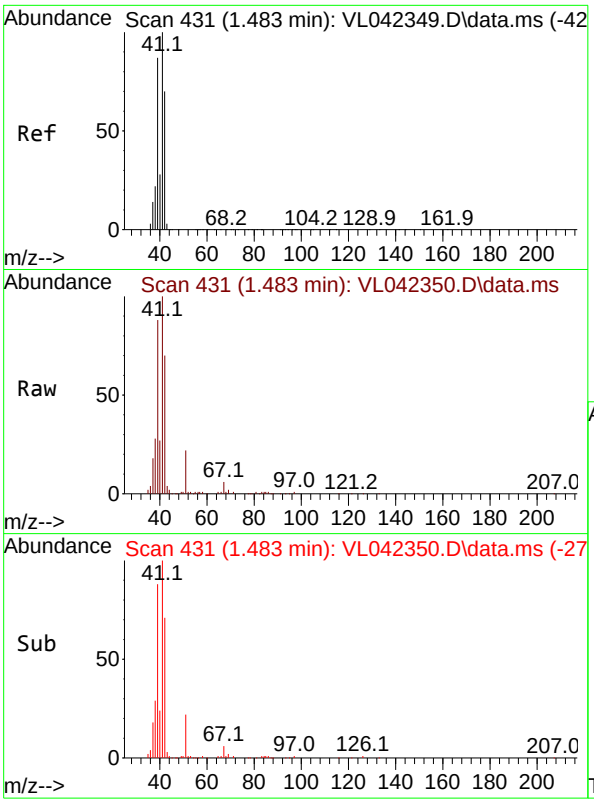


#8
Dichlorotetrafluoroethane
Concen: 2.084 ppbv
RT: 1.554 min Scan# 453
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 85 Resp: 38955

Ion	Ratio	Lower	Upper
85	100		
135	63.3	52.2	78.2



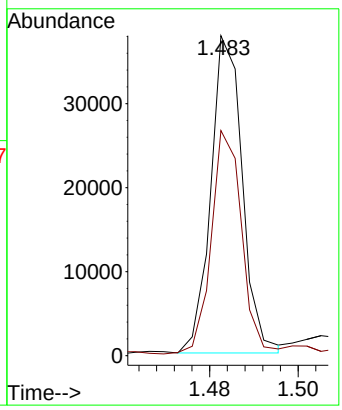


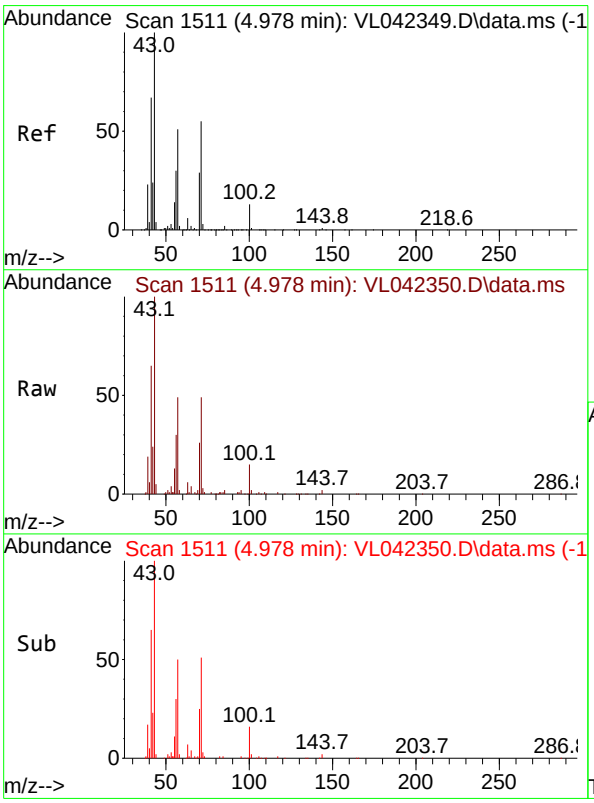
#9
Propene
Concen: 1.978 ppbv
RT: 1.483 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 41 Resp: 18671

Ion	Ratio	Lower	Upper
41	100		
42	72.7	56.2	84.4

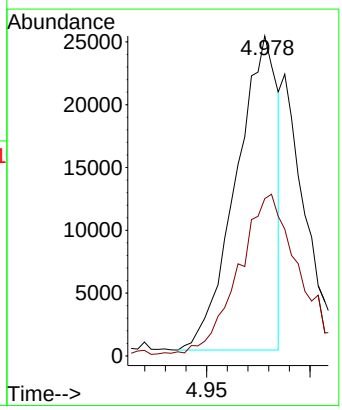


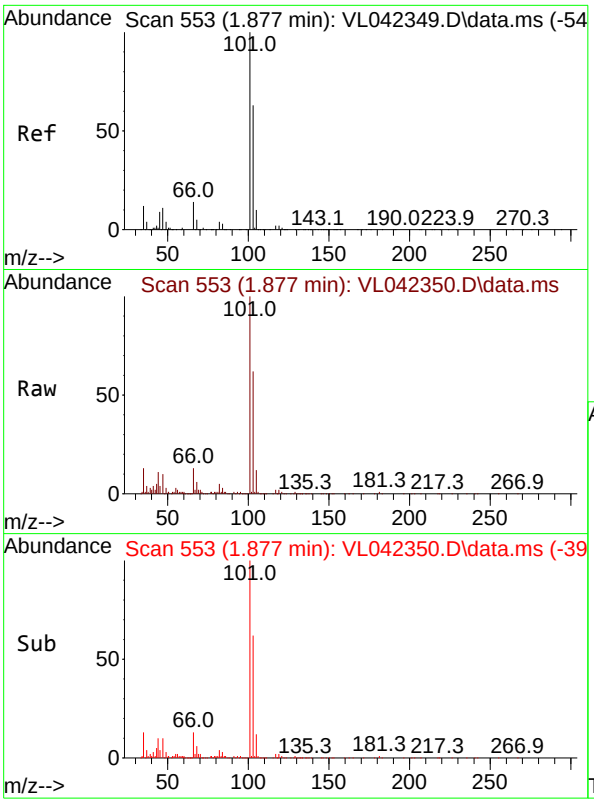


#10
Heptane
Concen: 1.364 ppbv
RT: 4.978 min Scan# 1511
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 43 Resp: 34658

Ion	Ratio	Lower	Upper
43	100		
57	75.9	39.9	59.9#



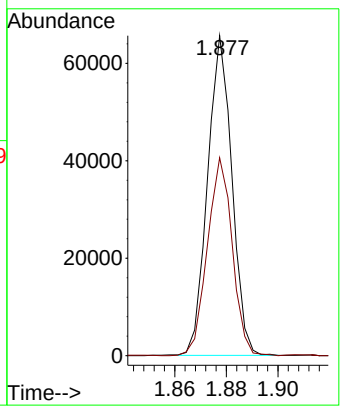


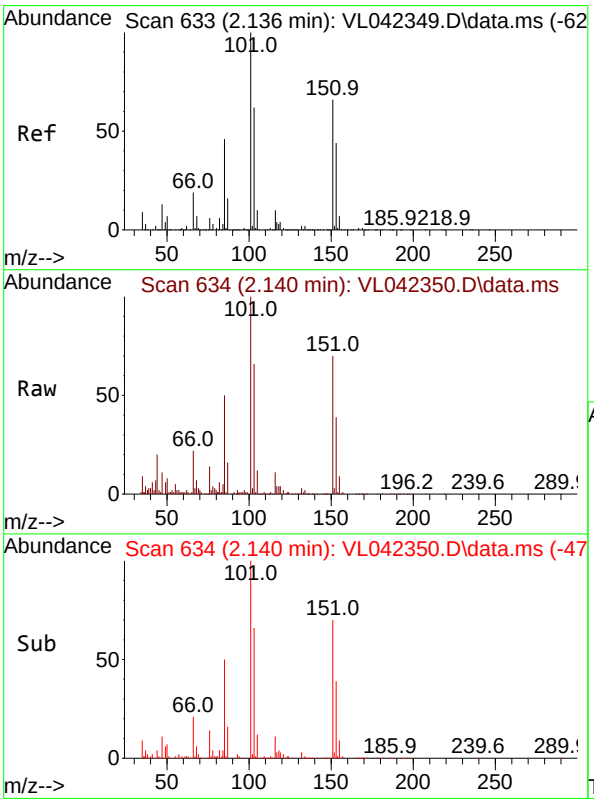
#11
Trichlorofluoromethane
Concen: 2.079 ppbv
RT: 1.877 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion:101 Resp: 43035

Ion	Ratio	Lower	Upper
101	100		
103	61.9	50.1	75.1

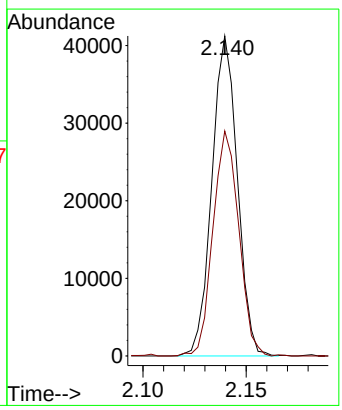


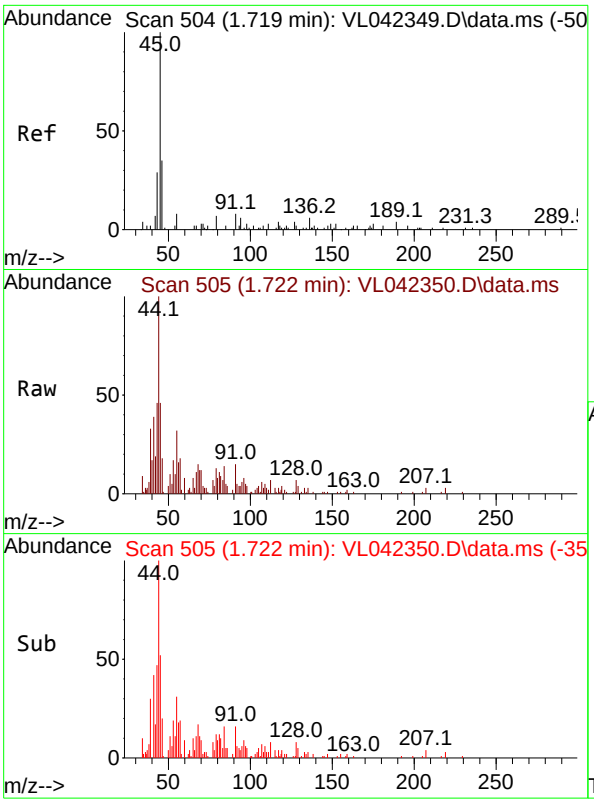


#12
1,1,2-Trichlorotrifluoroethane
Concen: 2.092 ppbv
RT: 2.140 min Scan# 634
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion:101 Resp: 35415

Ion	Ratio	Lower	Upper
101	100		
151	71.5	57.0	85.6



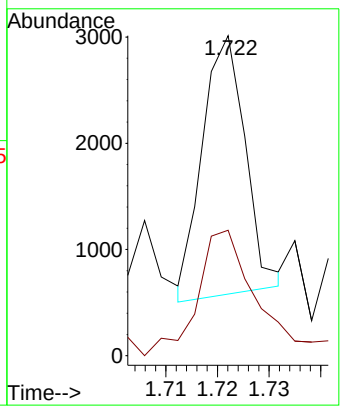


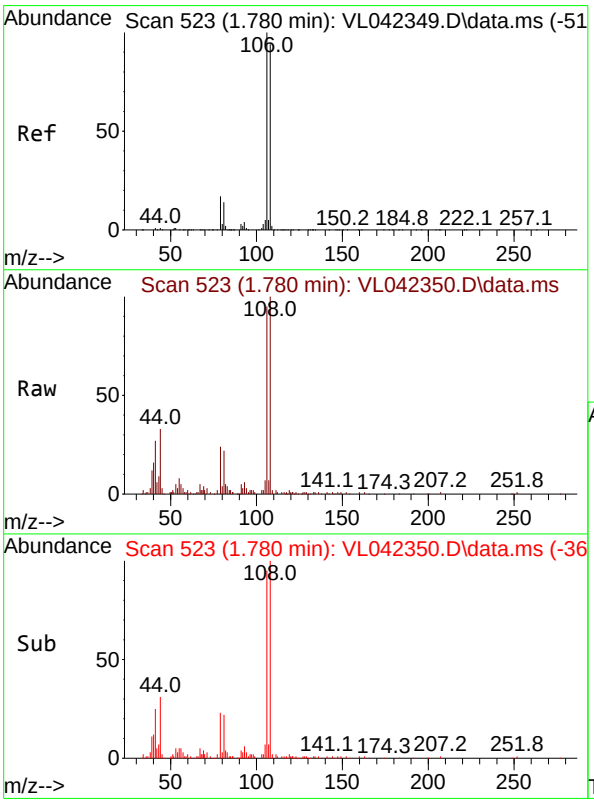
#13
Ethanol
Concen: 1.837 ppbv
RT: 1.722 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 45 Resp: 1417

Ion	Ratio	Lower	Upper
45	100		
46	84.1	21.9	87.7

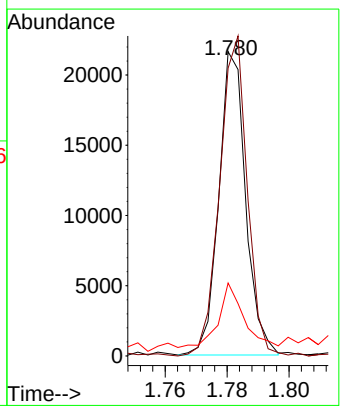


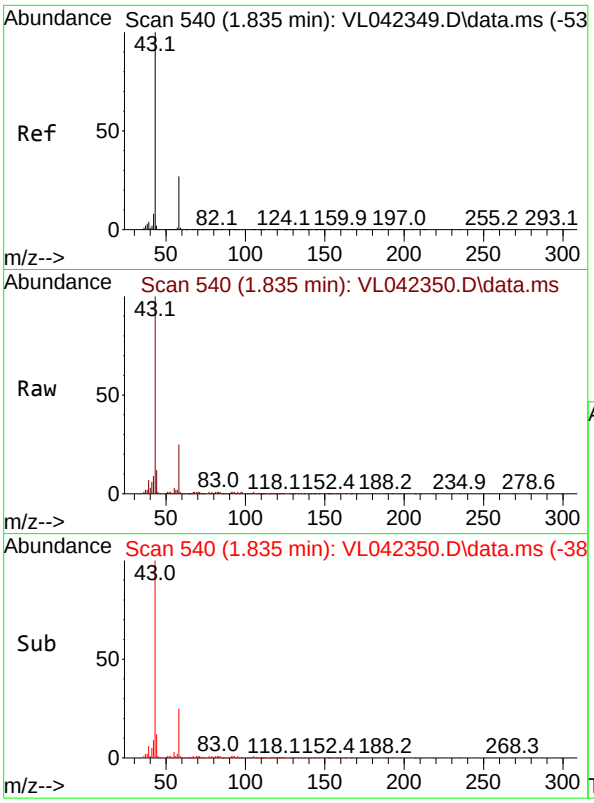


#14
Bromoethene
Concen: 2.045 ppbv
RT: 1.780 min Scan# 523
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

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#



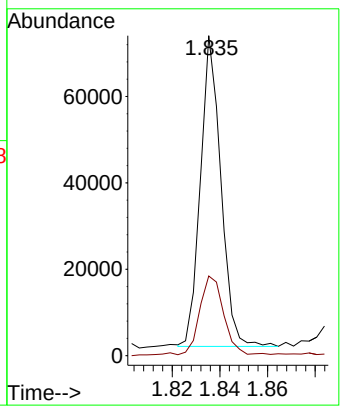


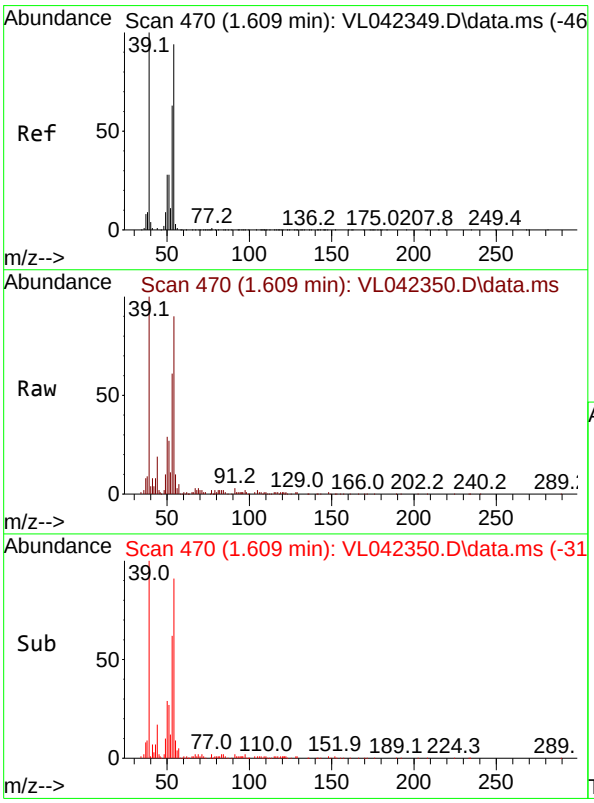
#15
Acetone
Concen: 2.129 ppbv
RT: 1.835 min Scan# 54
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 43 Resp: 42949

Ion	Ratio	Lower	Upper
43	100		
58	31.4	22.4	33.6

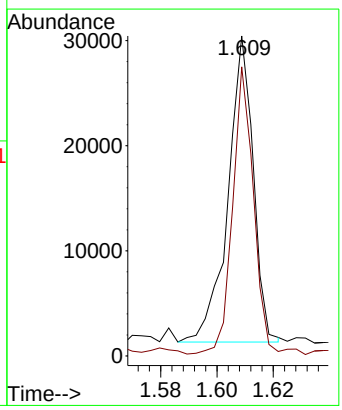


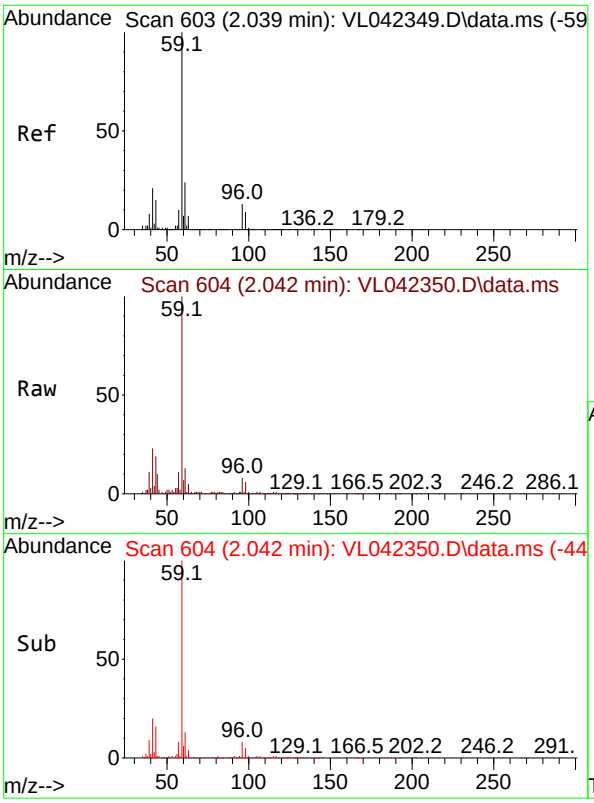


#16
1,3-Butadiene
Concen: 1.912 ppbv
RT: 1.609 min Scan# 470
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 39 Resp: 18110

Ion	Ratio	Lower	Upper
39	100		
54	77.2	64.9	97.3



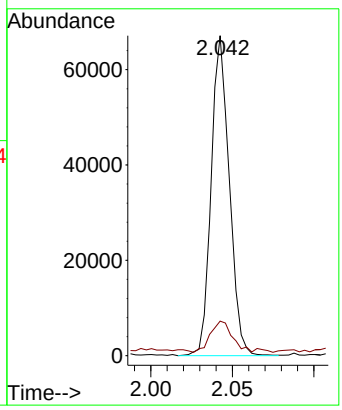


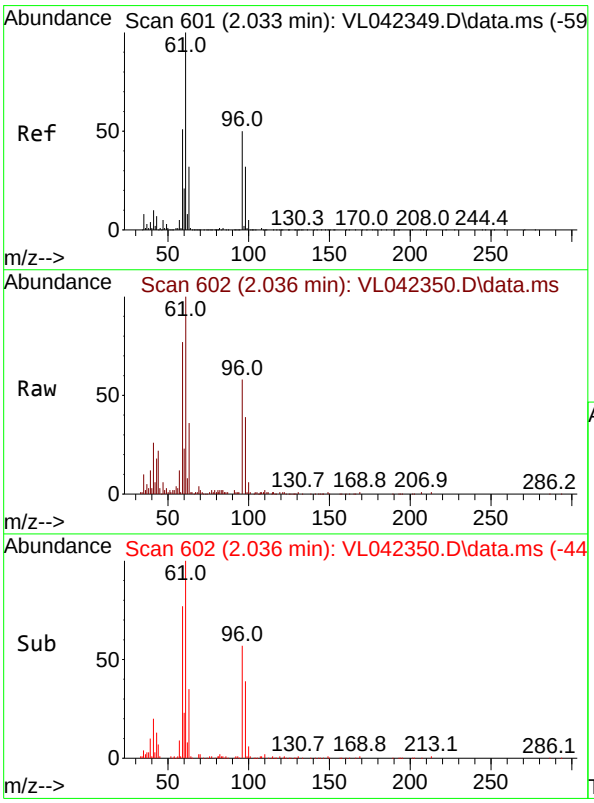
#17
tert-Butyl alcohol
Concen: 2.074 ppbv
RT: 2.042 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 59 Resp: 51829

Ion	Ratio	Lower	Upper
59	100		
57	13.2	8.7	13.1#

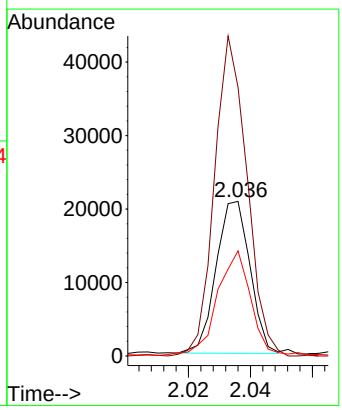


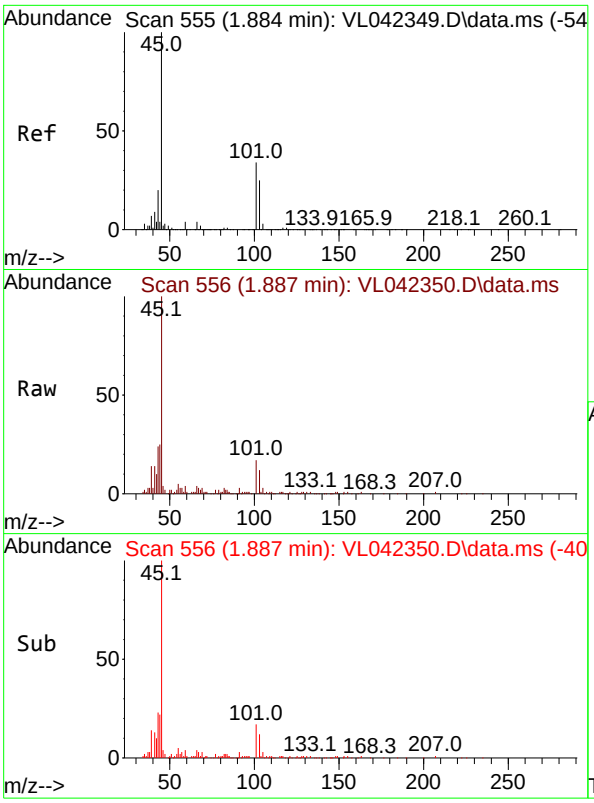


#18
1,1-Dichloroethene
Concen: 1.928 ppbv
RT: 2.036 min Scan# 602
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

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



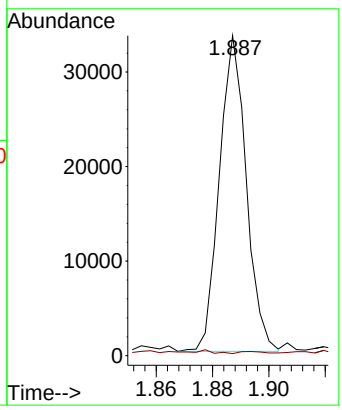


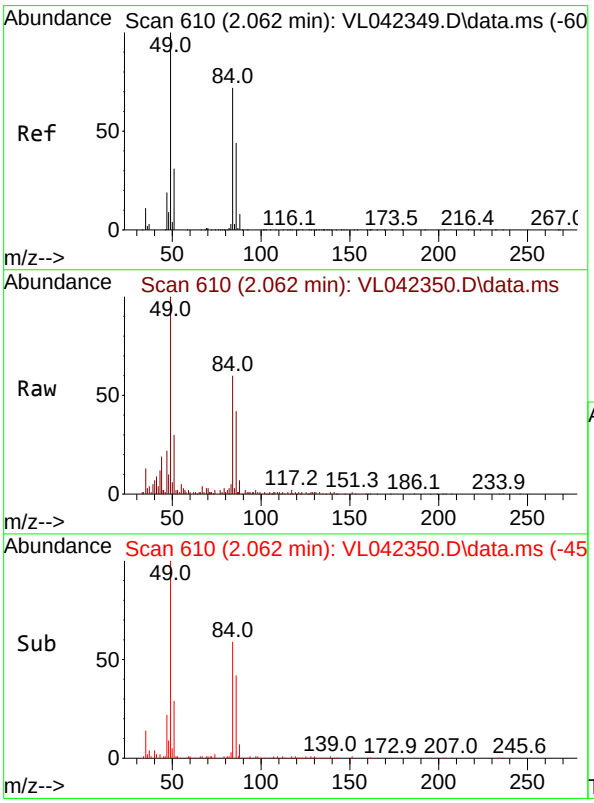
#19
Isopropyl Alcohol
Concen: 1.973 ppbv
RT: 1.887 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 45 Resp: 22106

Ion	Ratio	Lower	Upper
45	100		
58	3.6	34.5	51.7#

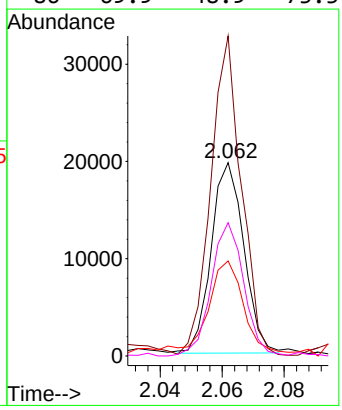


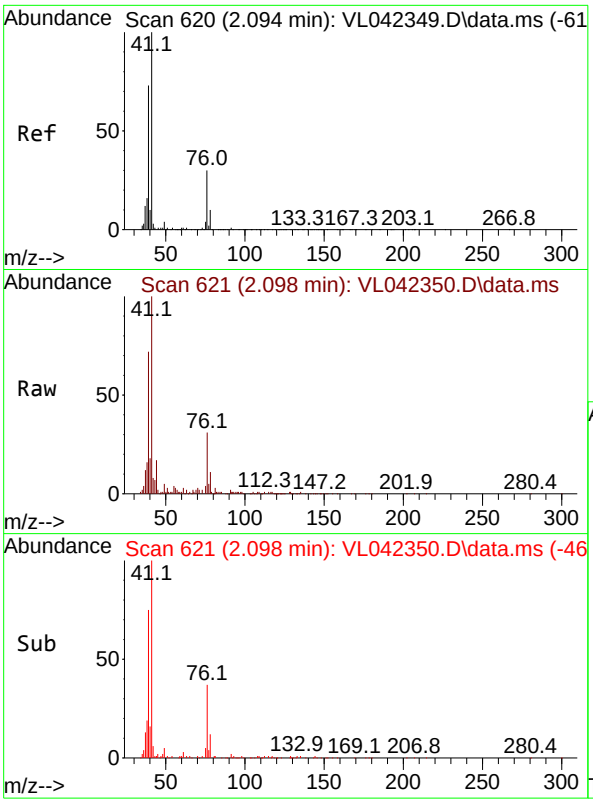


#20
Methylene Chloride
Concen: 1.814 ppbv
RT: 2.062 min Scan# 610
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

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



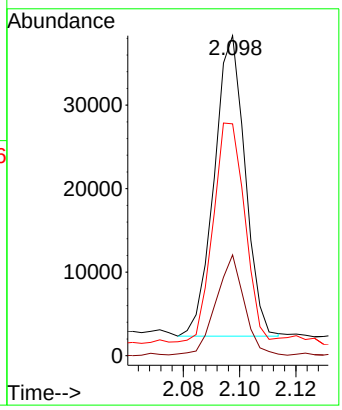


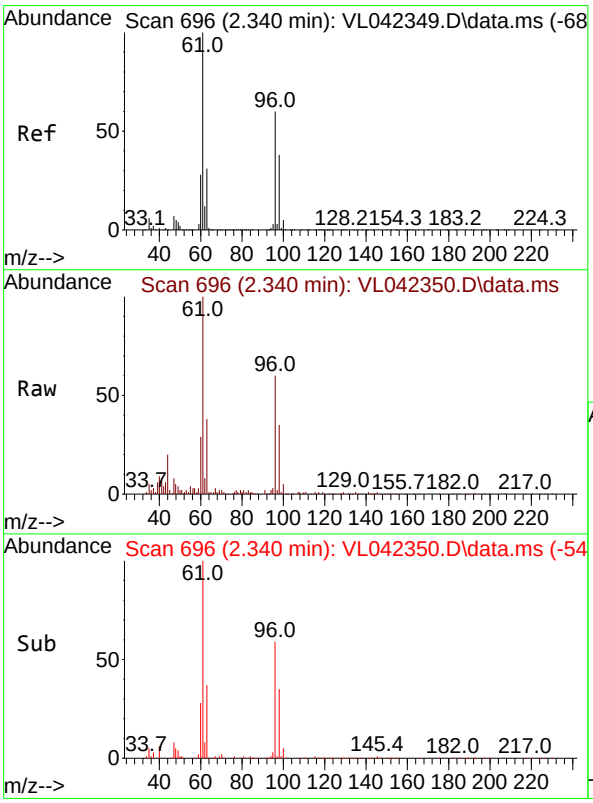
#21
Allyl Chloride
Concen: 1.963 ppbv
RT: 2.098 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

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

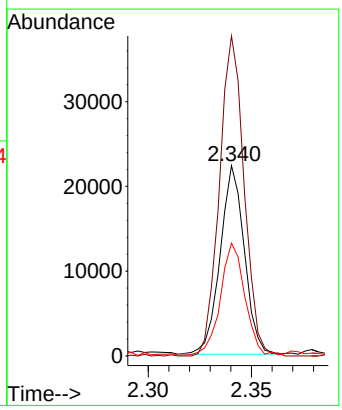


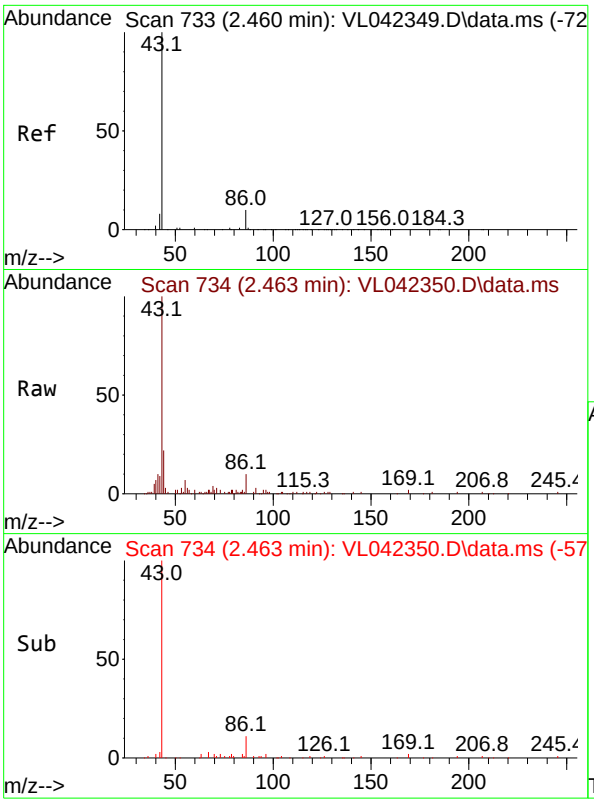


#22
trans-1,2-Dichloroethene
Concen: 2.015 ppbv
RT: 2.340 min Scan# 696
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

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



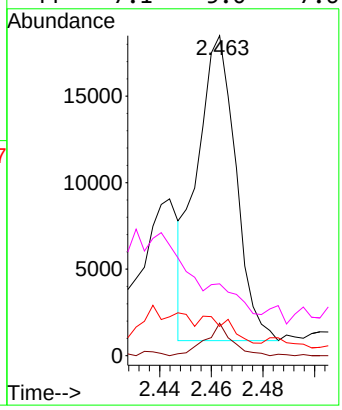


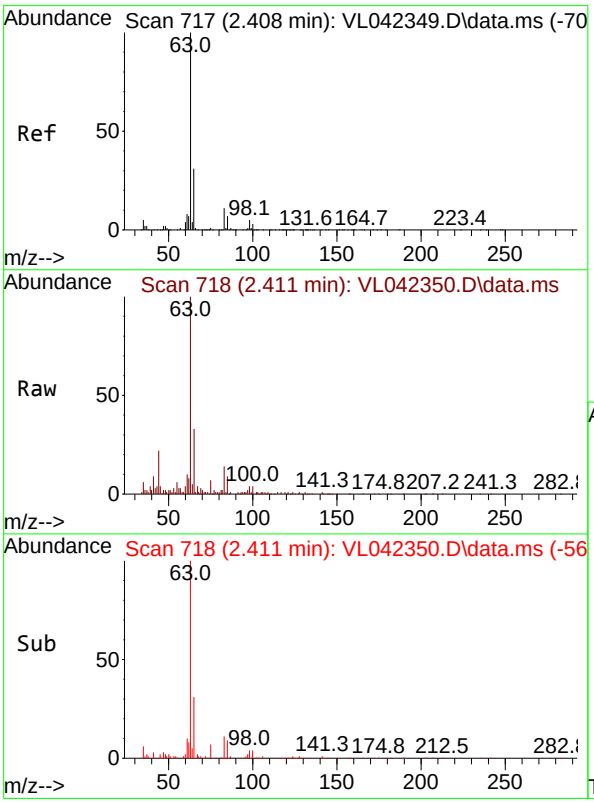
#23
Vinyl Acetate
Concen: 2.260 ppbv
RT: 2.463 min Scan# 7
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

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

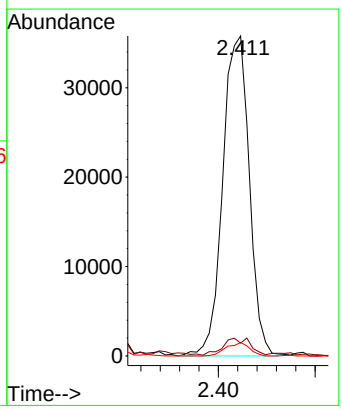


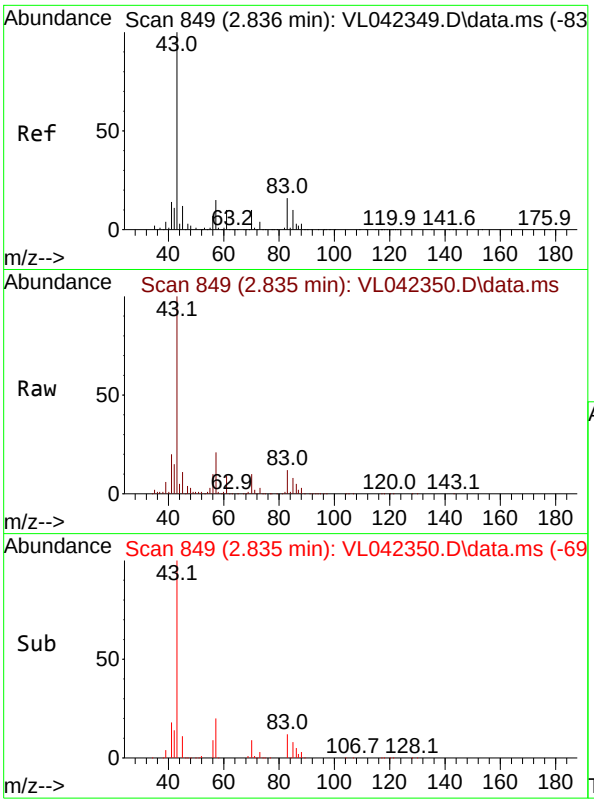


#24
1,1-Dichloroethane
Concen: 1.993 ppbv
RT: 2.411 min Scan# 718
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

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



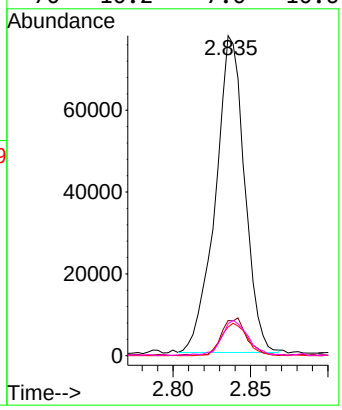


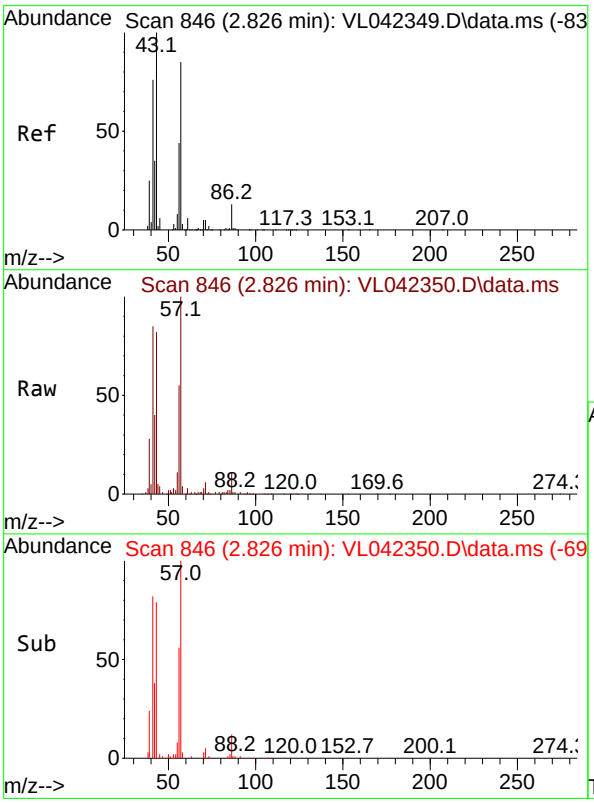
#25
Ethyl Acetate
Concen: 2.040 ppbv
RT: 2.835 min Scan# 84
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

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

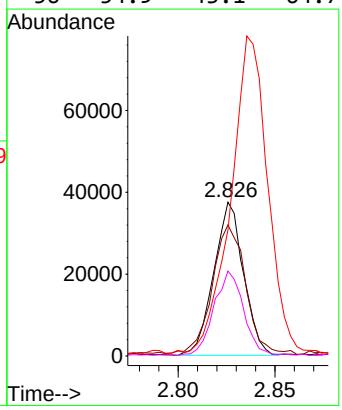


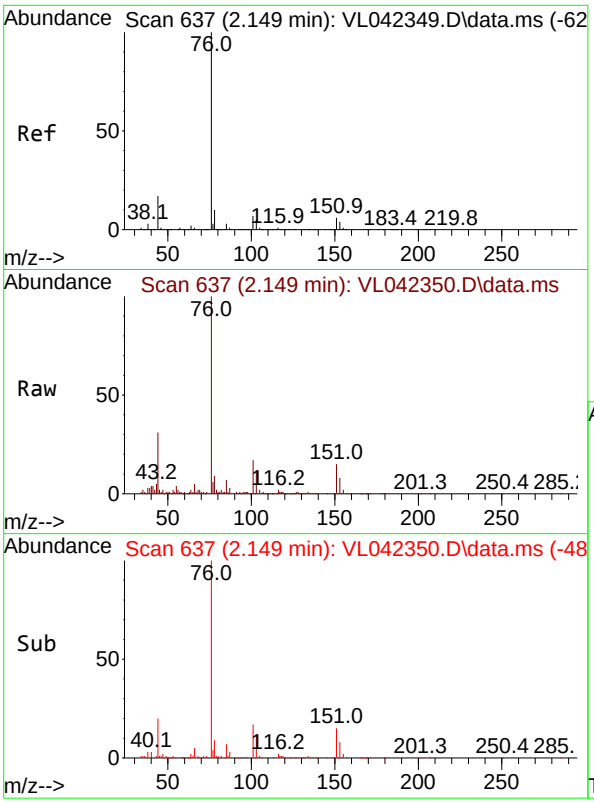


#26
Hexane
Concen: 1.990 ppbv
RT: 2.826 min Scan# 846
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

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



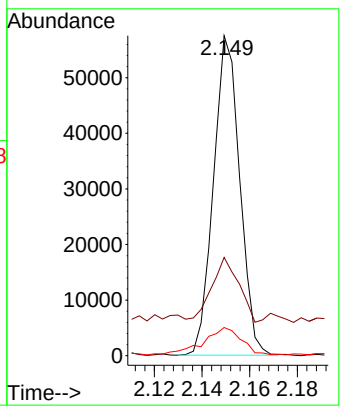


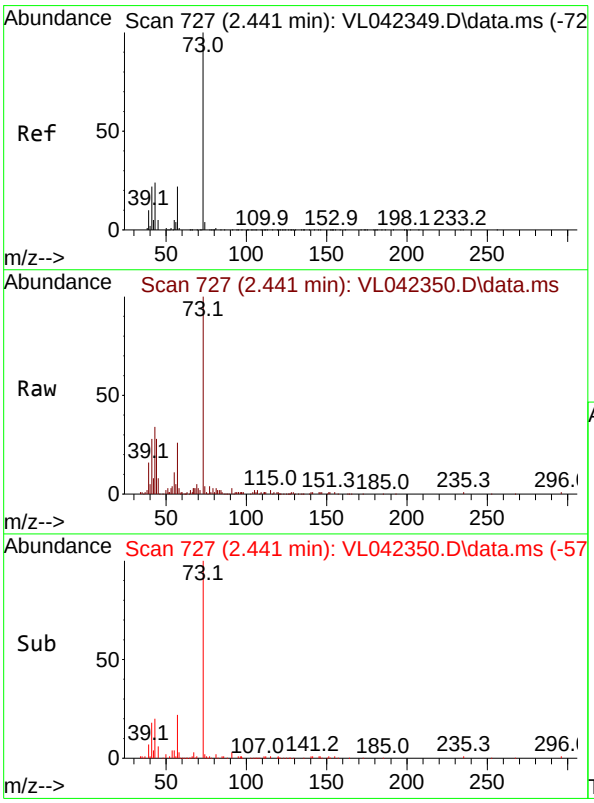
#27
Carbon Disulfide
Concen: 2.041 ppbv
RT: 2.149 min Scan# 6
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

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

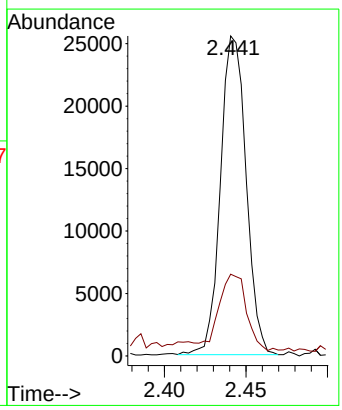


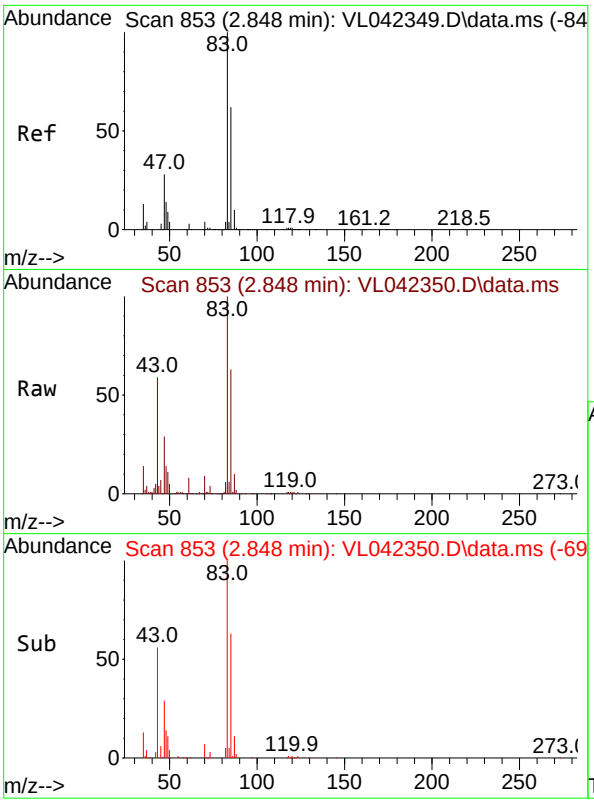


#28
Methyl tert-Butyl Ether
Concen: 2.116 ppbv
RT: 2.441 min Scan# 727
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 73 Resp: 27905

Ion	Ratio	Lower	Upper
73	100		
57	28.1	21.3	31.9



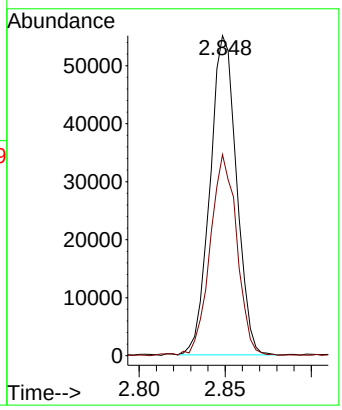


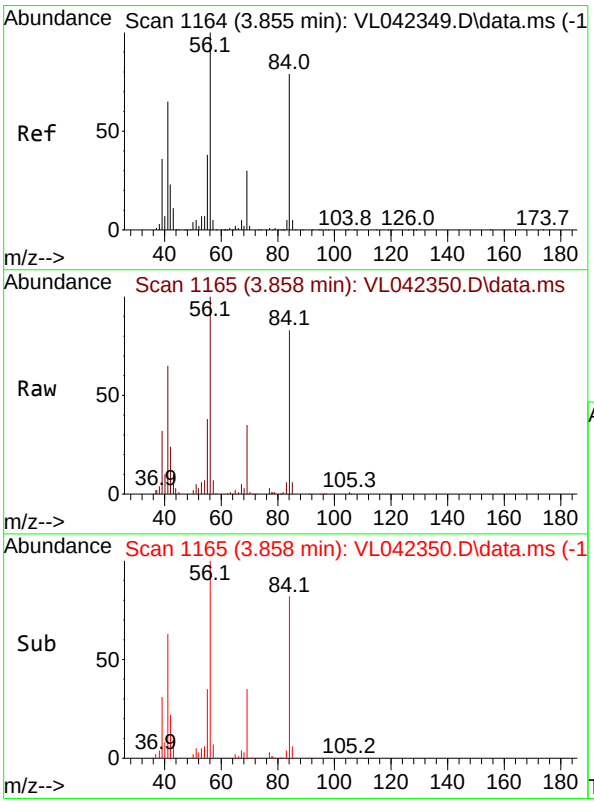
#29
Chloroform
Concen: 2.072 ppbv
RT: 2.848 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 83 Resp: 58946

Ion	Ratio	Lower	Upper
83	100		
85	62.9	50.0	75.0

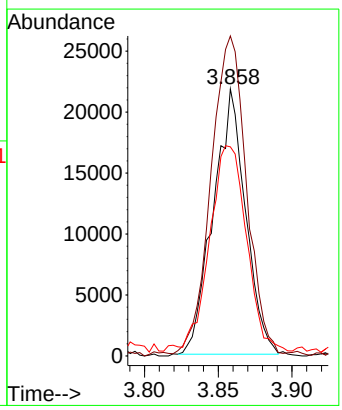


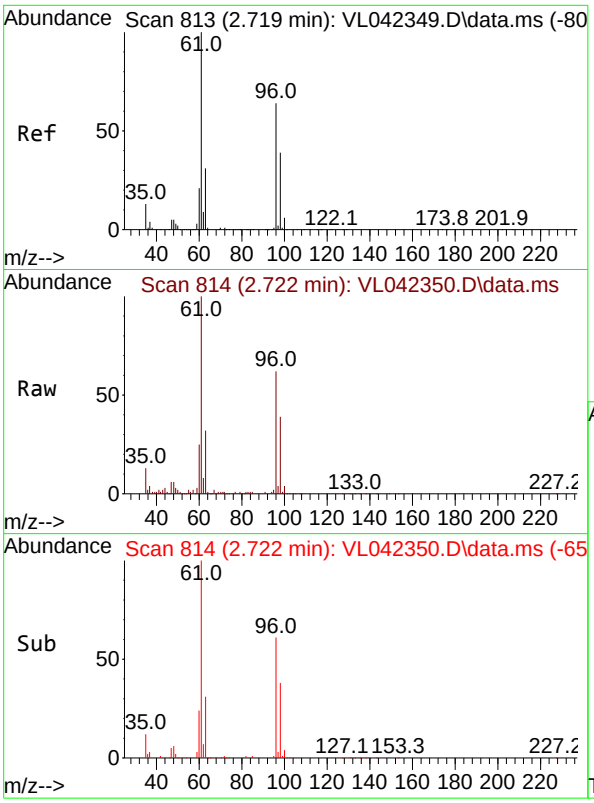


#30
Cyclohexane
Concen: 2.048 ppbv
RT: 3.858 min Scan# 1165
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

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



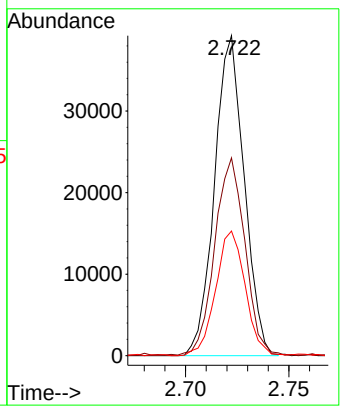


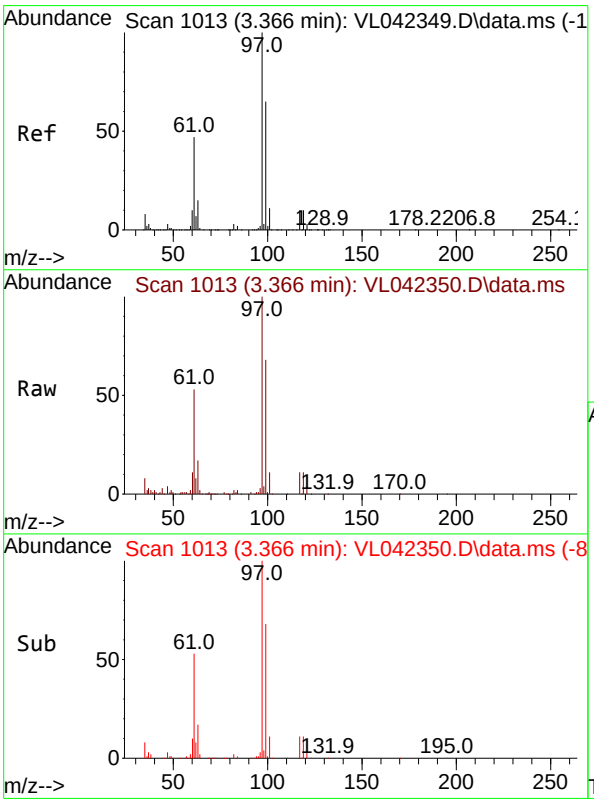
#31
cis-1,2-Dichloroethene
Concen: 2.051 ppbv
RT: 2.722 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

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

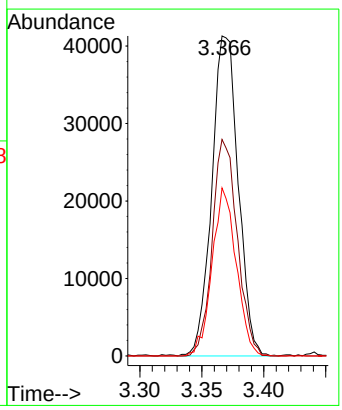


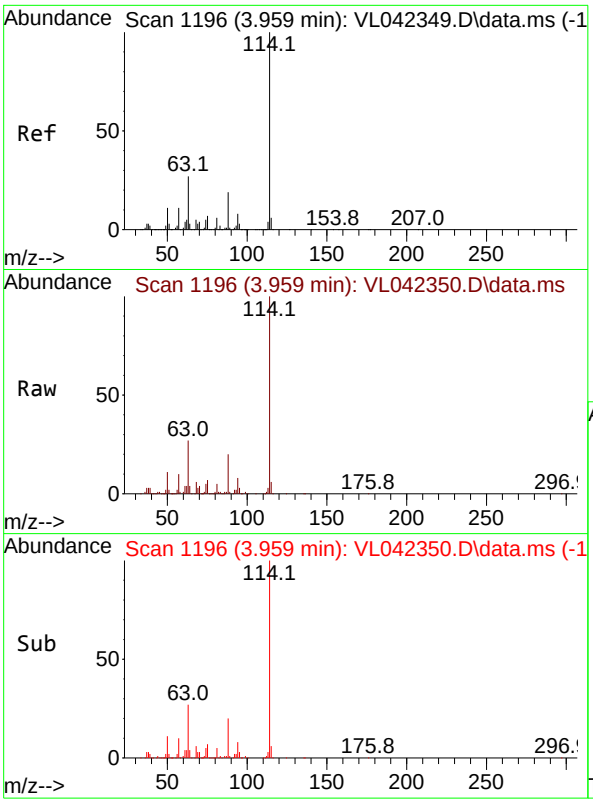


#32
1,1,1-Trichloroethane
Concen: 2.014 ppbv
RT: 3.366 min Scan# 1013
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

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



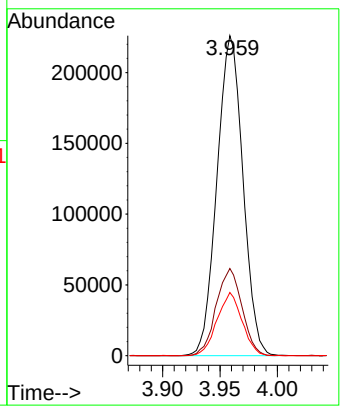


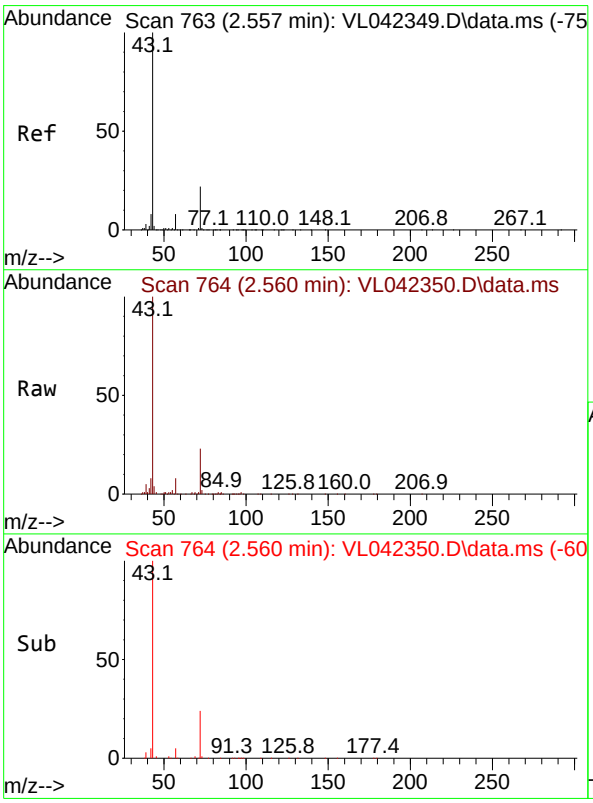
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.959 min Scan# 11
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

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

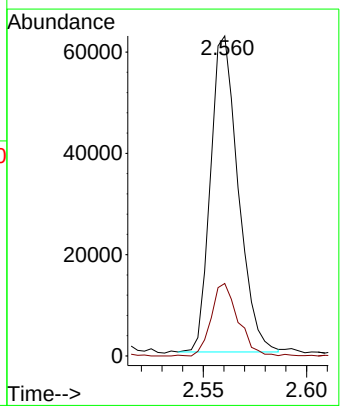


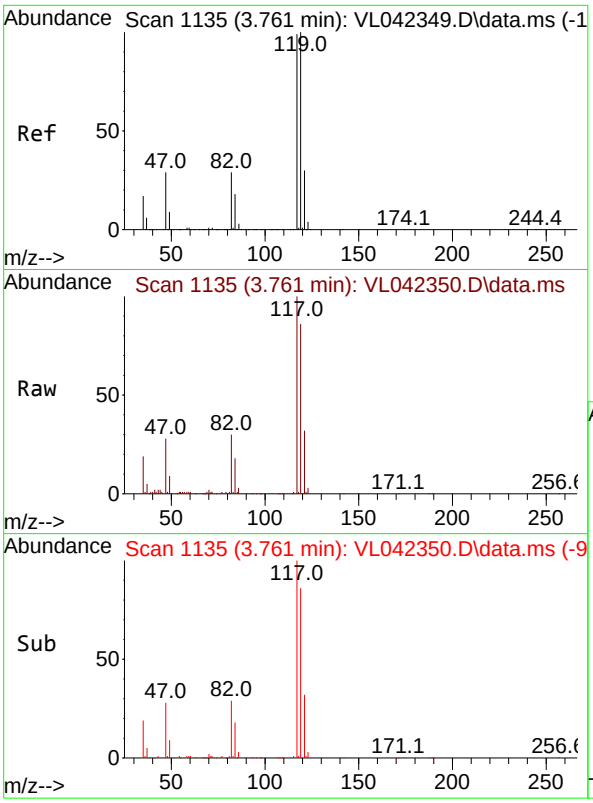


#34
2-Butanone
Concen: 2.069 ppbv
RT: 2.560 min Scan# 764
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 43 Resp: 58249

Ion	Ratio	Lower	Upper
43	100		
72	22.5	18.2	27.2



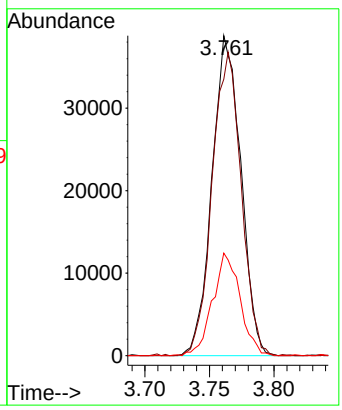


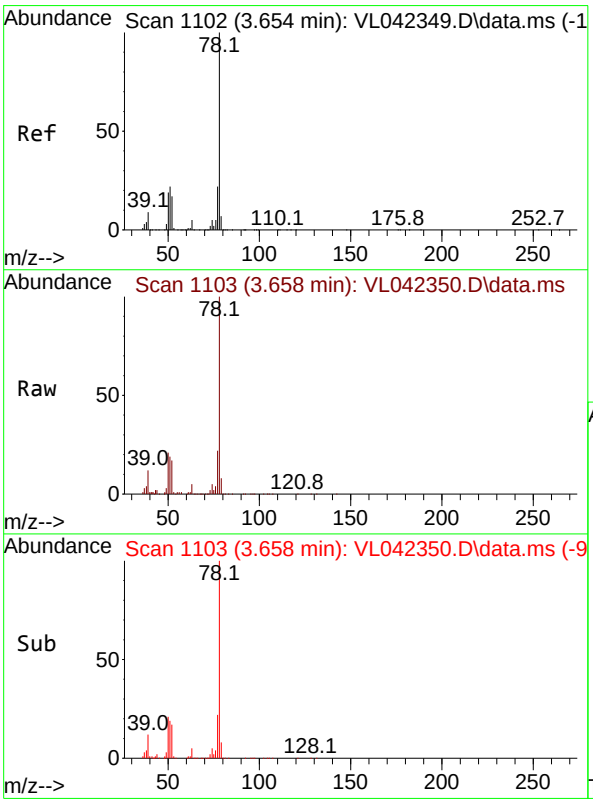
#35
Carbon Tetrachloride
Concen: 1.872 ppbv
RT: 3.761 min Scan# 11
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

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

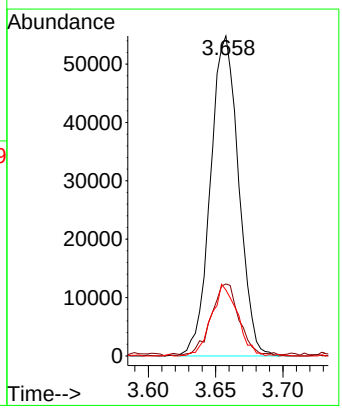


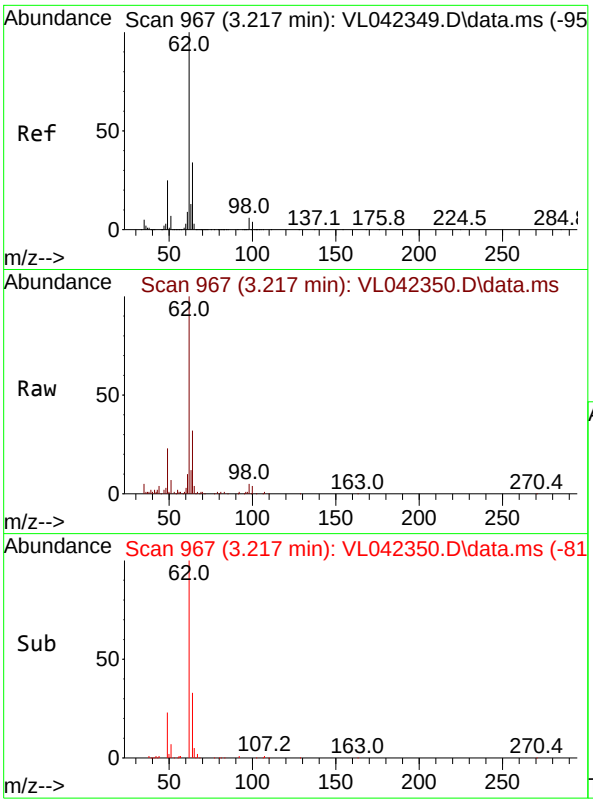


#36
Benzene
Concen: 2.079 ppbv
RT: 3.658 min Scan# 1103
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

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



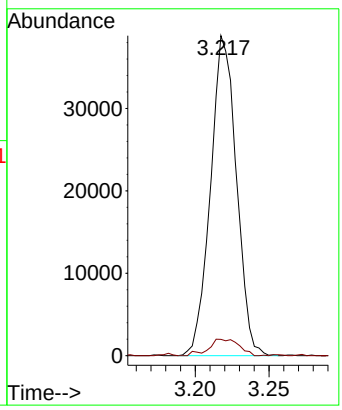


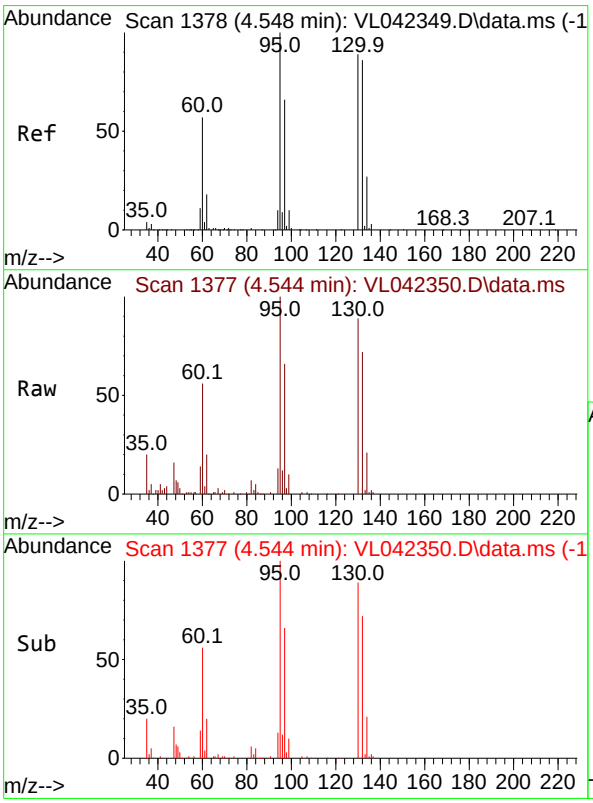
#37
1,2-Dichloroethane
Concen: 2.057 ppbv
RT: 3.217 min Scan# 9
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 62 Resp: 47398

Ion	Ratio	Lower	Upper
62	100		
98	6.4	5.1	7.7

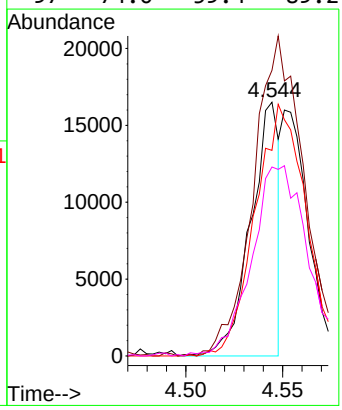


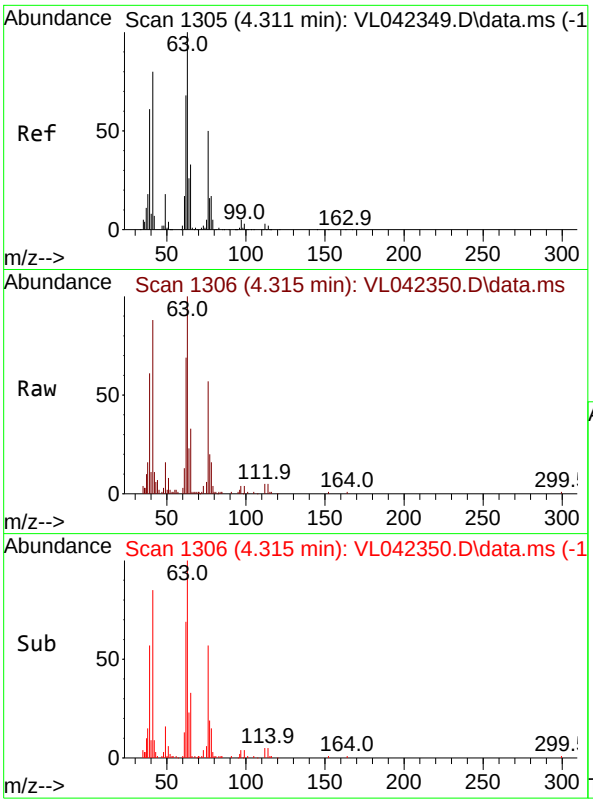


#38
Trichloroethene
Concen: 0.986 ppbv
RT: 4.544 min Scan# 1377
Delta R.T. -0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

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



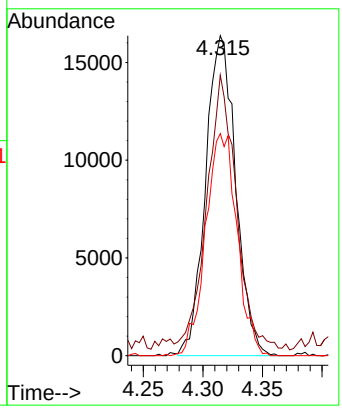


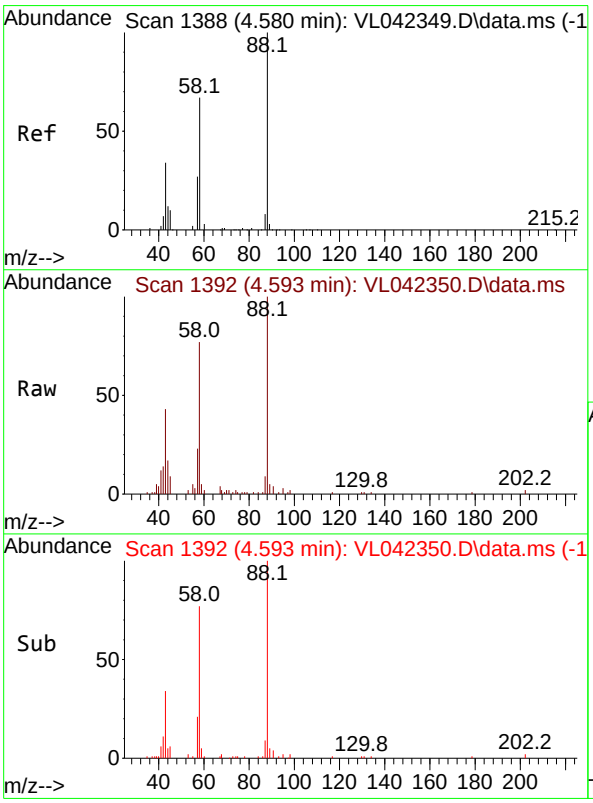
#39
1,2-Dichloropropane
Concen: 2.012 ppbv
RT: 4.315 min Scan# 1
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

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

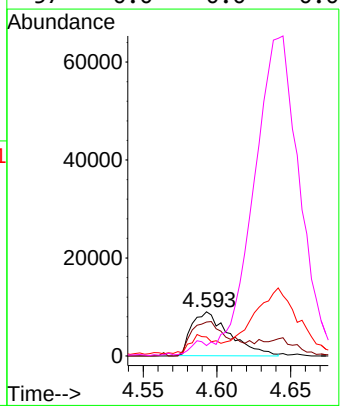


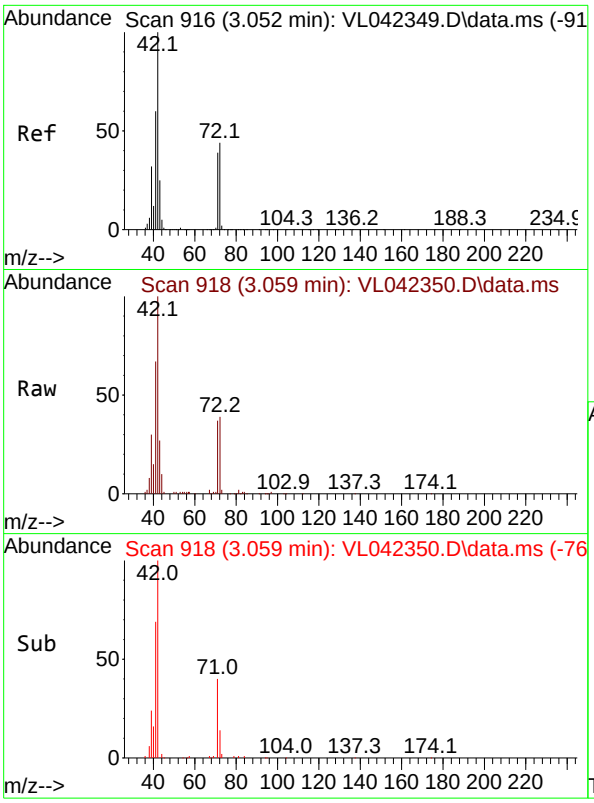


#40
1,4-Dioxane
Concen: 2.067 ppbv
RT: 4.593 min Scan# 1392
Delta R.T. 0.013 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

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



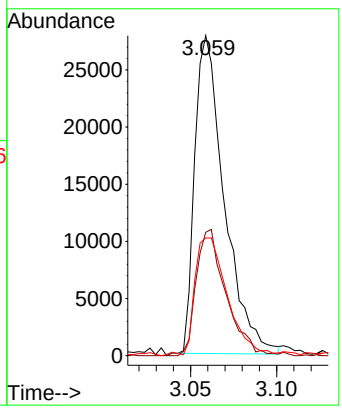


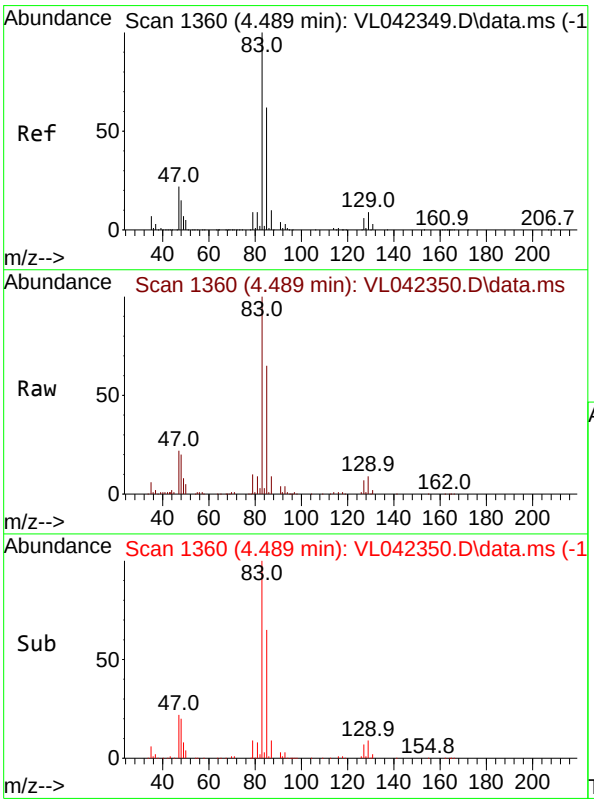
#41
Tetrahydrofuran
Concen: 2.047 ppbv
RT: 3.059 min Scan# 91
Delta R.T. 0.006 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

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

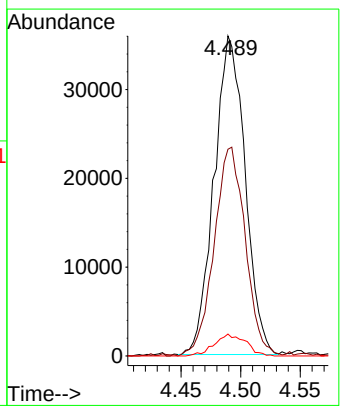


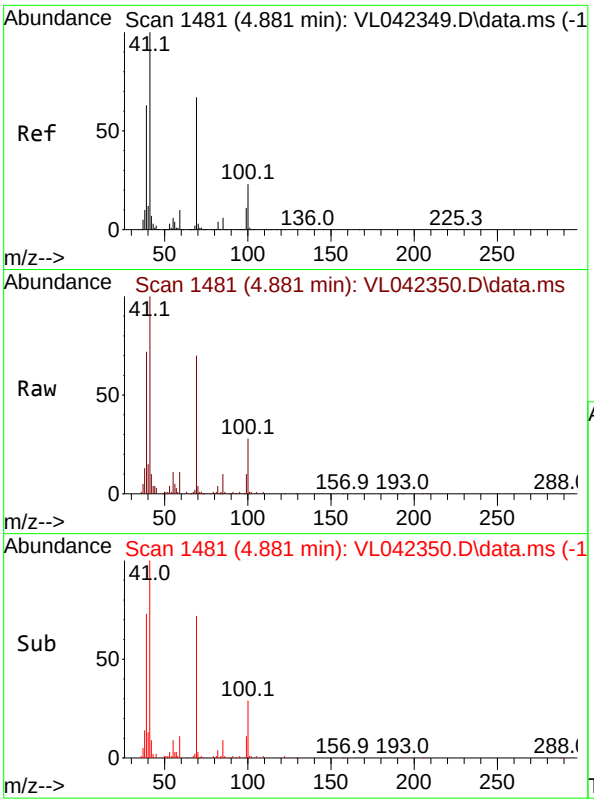


#42
Bromodichloromethane
Concen: 2.025 ppbv
RT: 4.489 min Scan# 1360
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

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



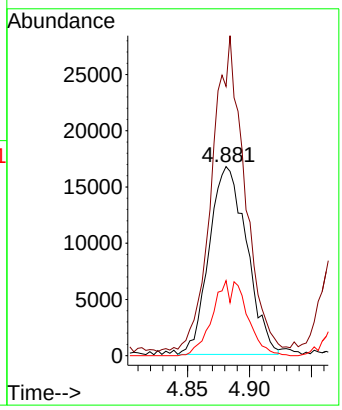


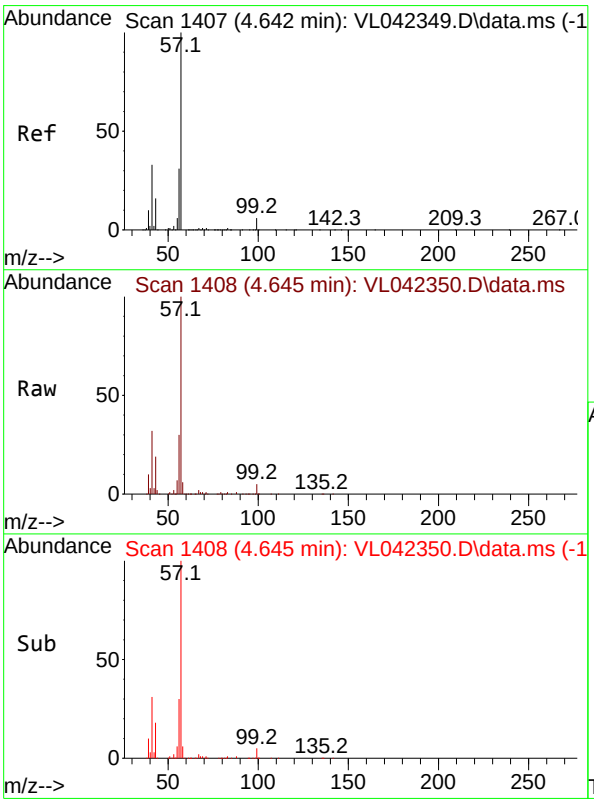
#43
Methyl Methacrylate
Concen: 2.046 ppbv
RT: 4.881 min Scan# 14
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

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

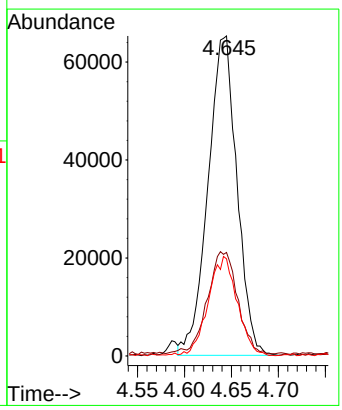


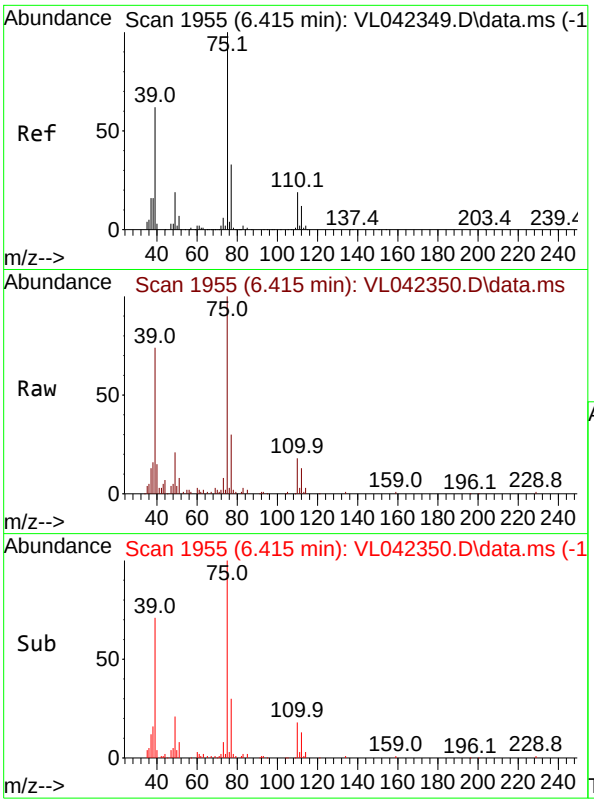


#44
2,2,4-Trimethylpentane
Concen: 2.103 ppbv
RT: 4.645 min Scan# 1408
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

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



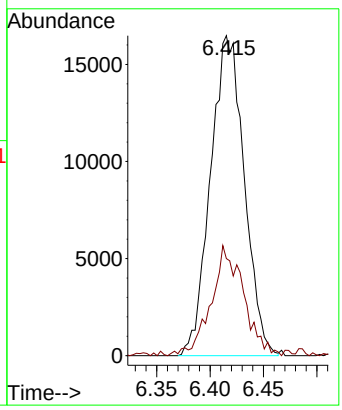


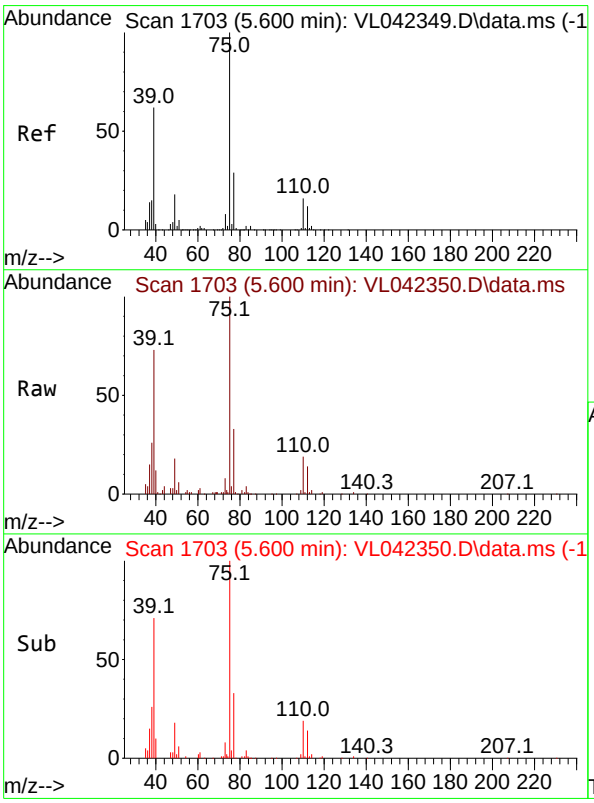
#45
t-1,3-Dichloropropene
Concen: 2.050 ppbv
RT: 6.415 min Scan# 1
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 75 Resp: 36265

Ion	Ratio	Lower	Upper
75	100		
77	30.4	27.0	40.6

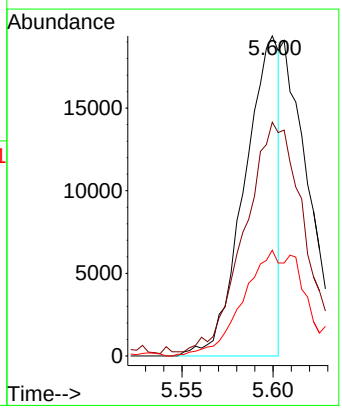


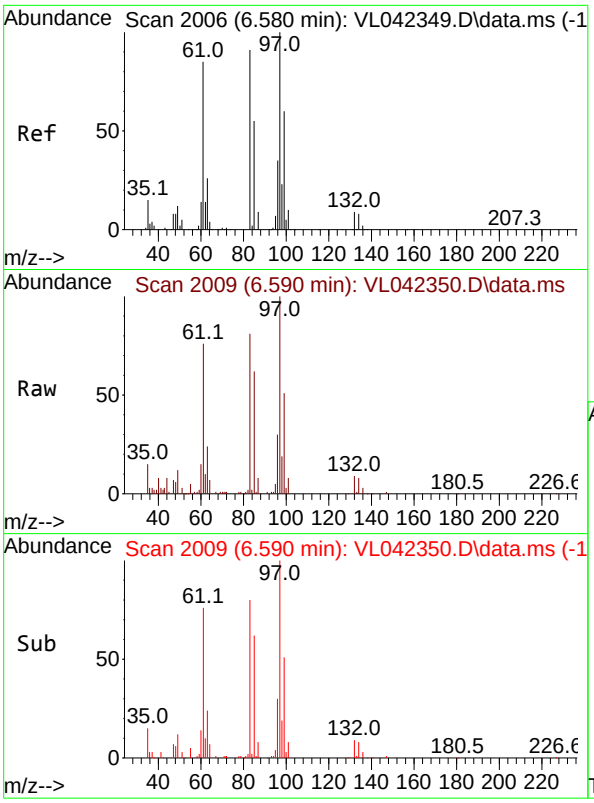


#46
cis-1,3-Dichloropropene
Concen: 1.183 ppbv
RT: 5.600 min Scan# 1703
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

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



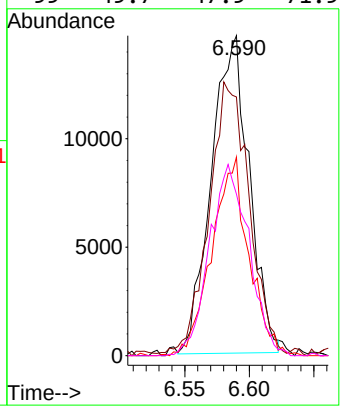


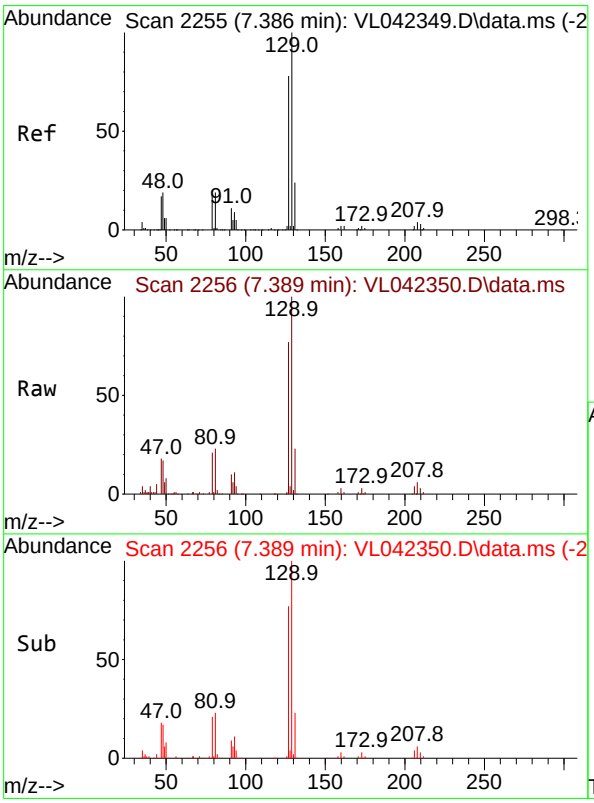
#47
1,1,2-Trichloroethane
Concen: 2.049 ppbv
RT: 6.590 min Scan# 2
Delta R.T. 0.010 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

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

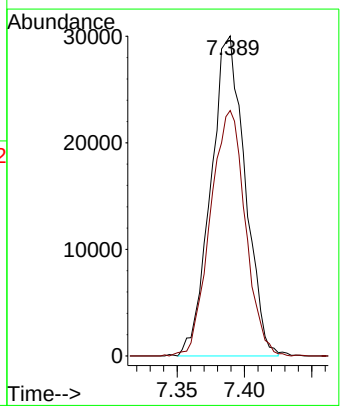


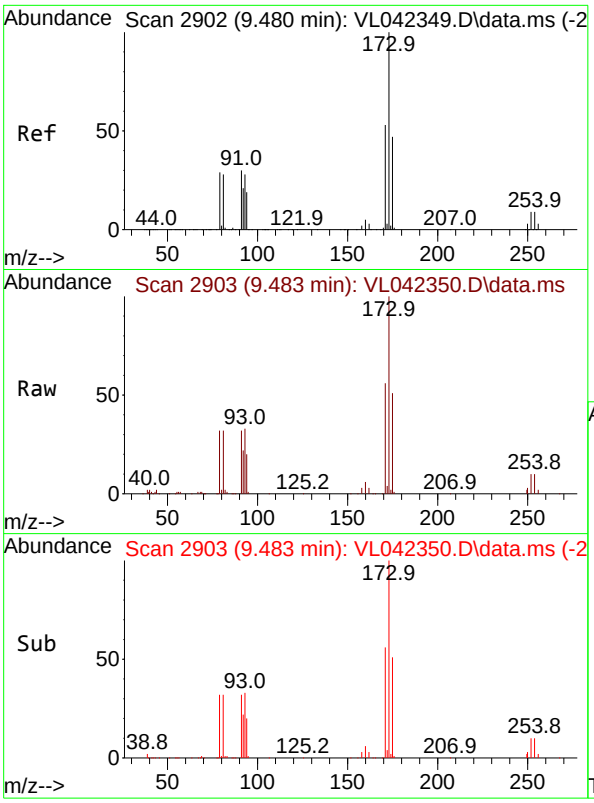


#48
Dibromochloromethane
Concen: 2.061 ppbv
RT: 7.389 min Scan# 2256
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion:129 Resp: 53069

Ion	Ratio	Lower	Upper
129	100		
127	78.4	39.1	117.3



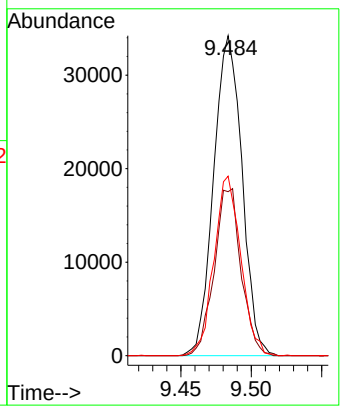


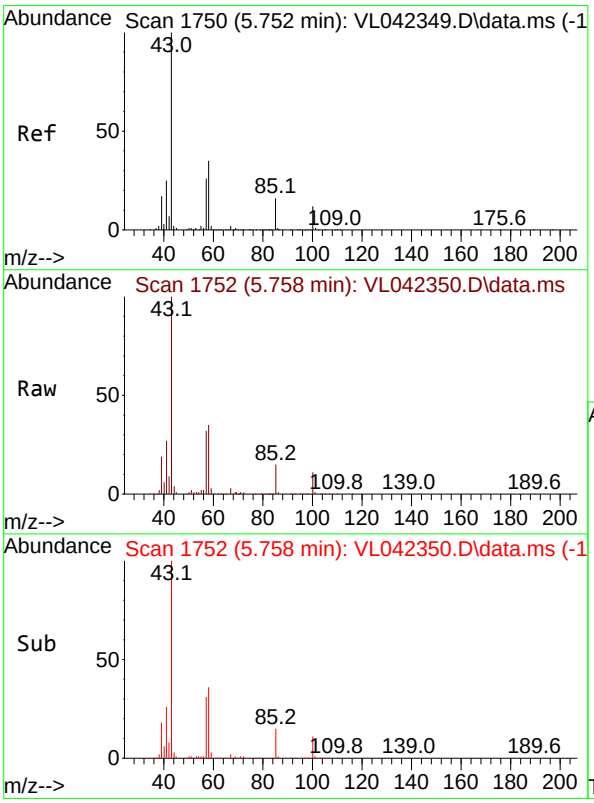
#49
Bromoform
Concen: 2.135 ppbv
RT: 9.483 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

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

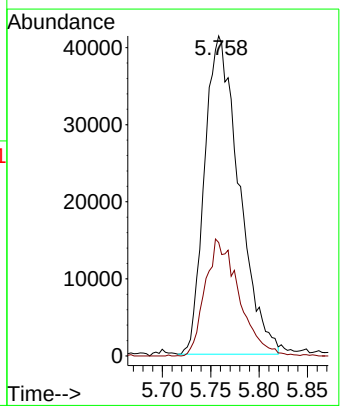


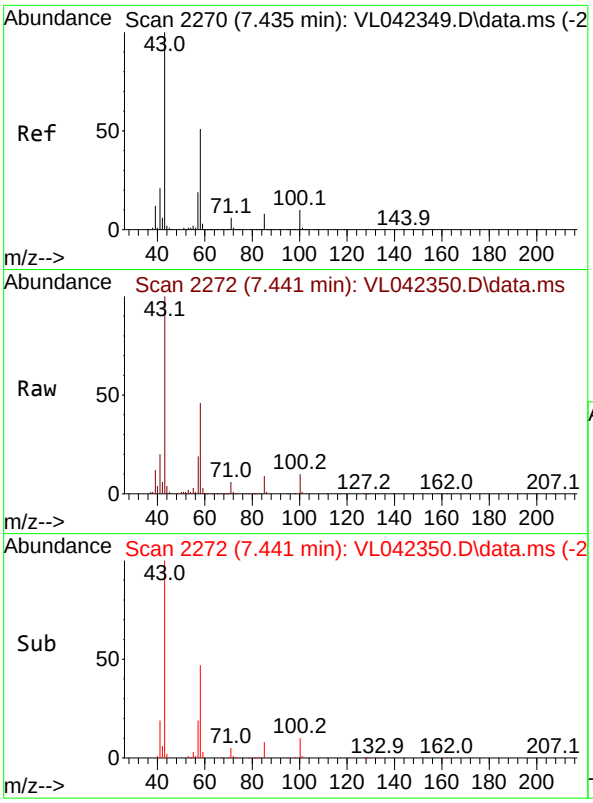


#50
4-Methyl-2-Pentanone
Concen: 2.180 ppbv
RT: 5.758 min Scan# 1752
Delta R.T. 0.006 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 43 Resp: 102182

Ion	Ratio	Lower	Upper
43	100		
58	36.3	28.6	43.0



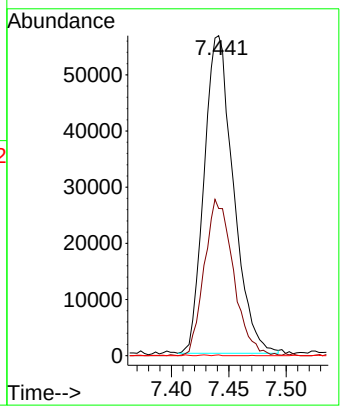


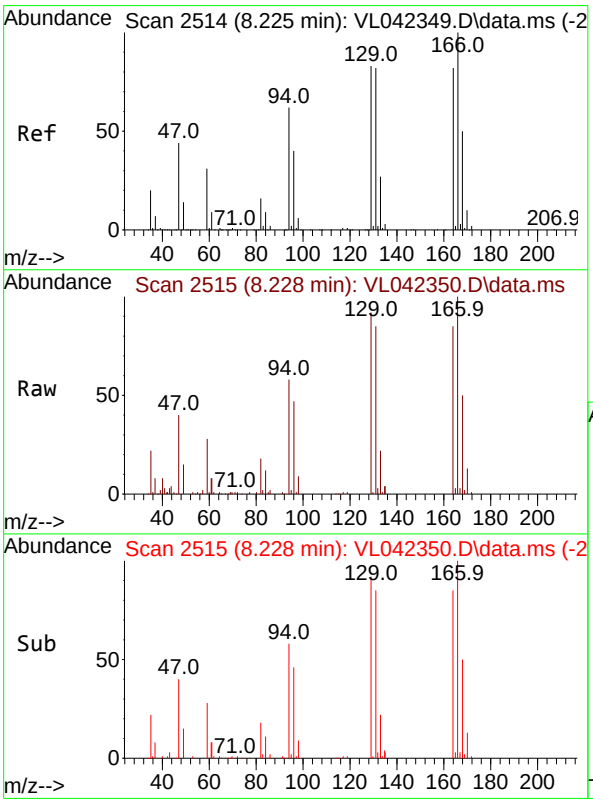
#51
2-Hexanone
Concen: 2.375 ppbv
RT: 7.441 min Scan# 2
Delta R.T. 0.006 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

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

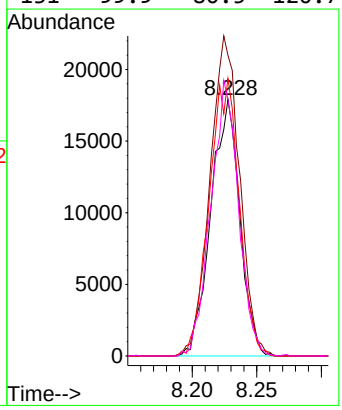


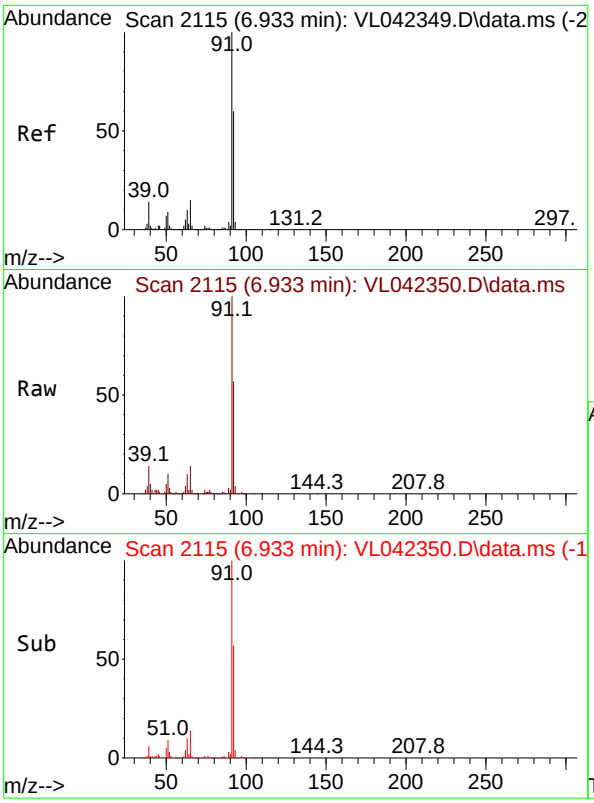


#52
Tetrachloroethene
Concen: 1.877 ppbv
RT: 8.228 min Scan# 2515
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

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



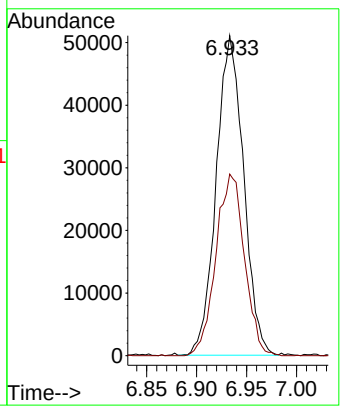


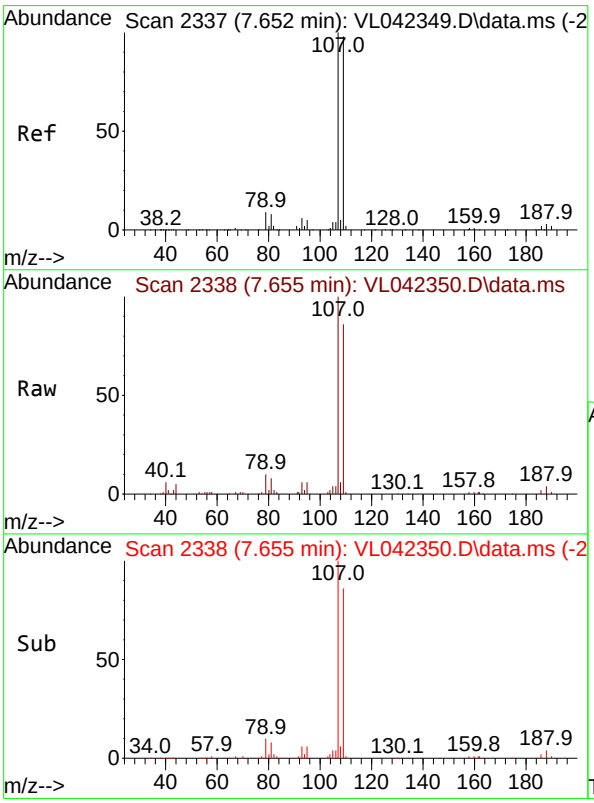
#53
Toluene
Concen: 2.116 ppbv
RT: 6.933 min Scan# 21
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 91 Resp: 97493

Ion	Ratio	Lower	Upper
91	100		
92	59.1	48.2	72.4

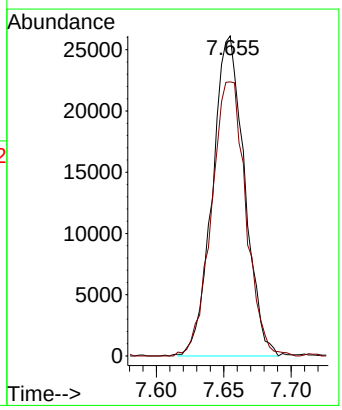


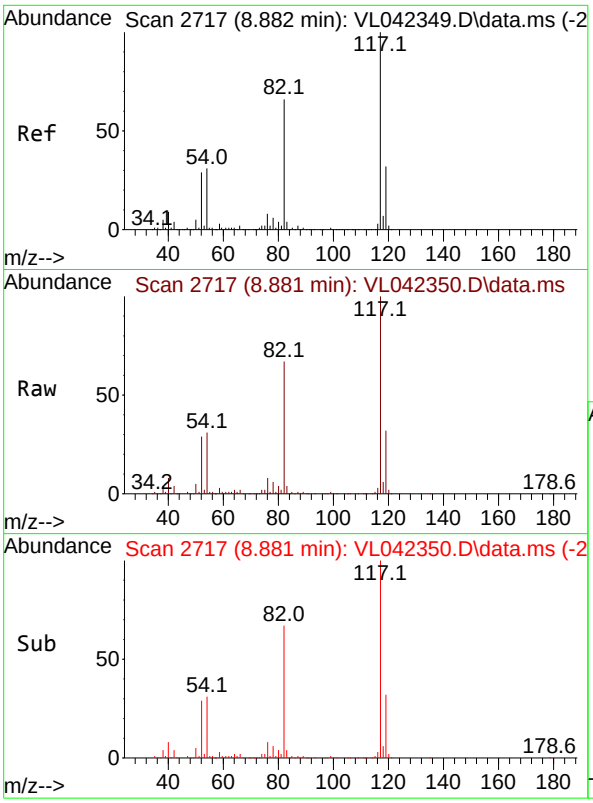


#54
1,2-Dibromoethane
Concen: 2.076 ppbv
RT: 7.655 min Scan# 2338
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion:107 Resp: 43153

Ion	Ratio	Lower	Upper
107	100		
109	84.5	78.2	117.4



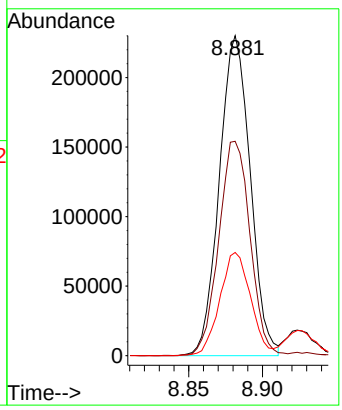


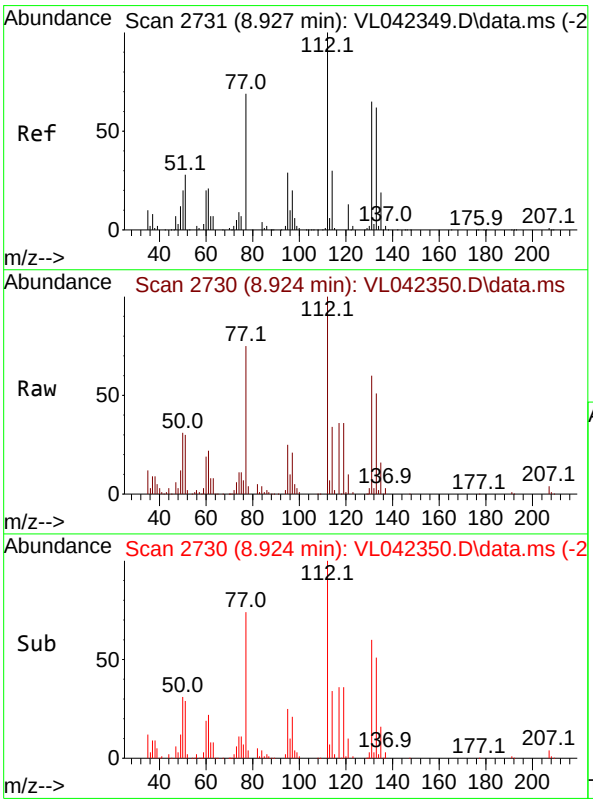
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.881 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

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

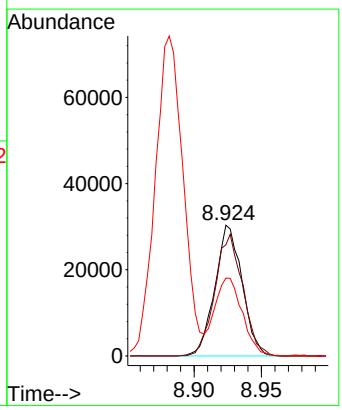


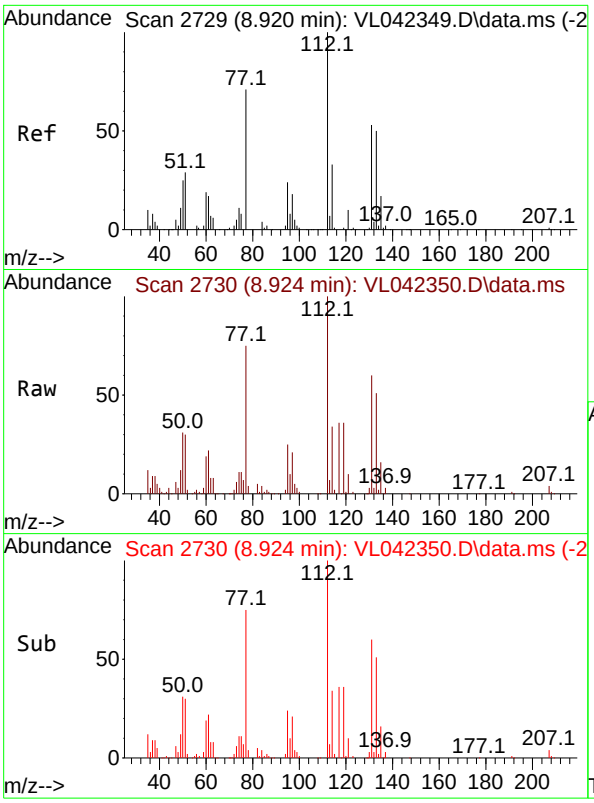


#56
1,1,1,2-Tetrachloroethane
Concen: 2.097 ppbv
RT: 8.924 min Scan# 2730
Delta R.T. -0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

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



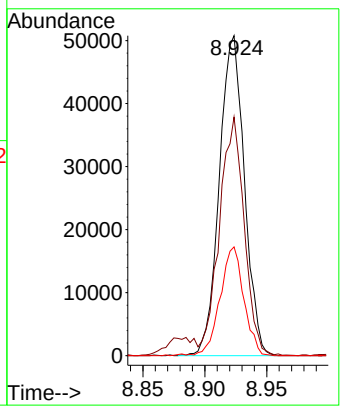


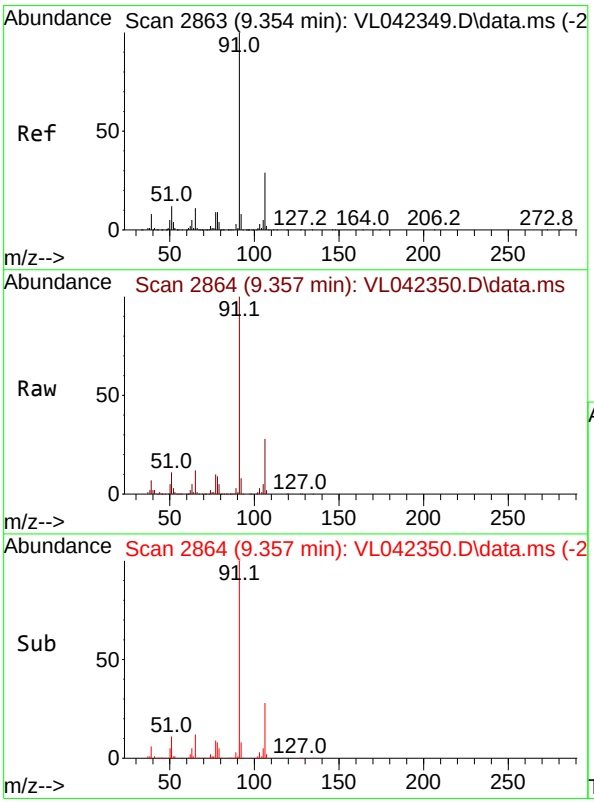
#57
Chlorobenzene
Concen: 2.054 ppbv
RT: 8.924 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

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

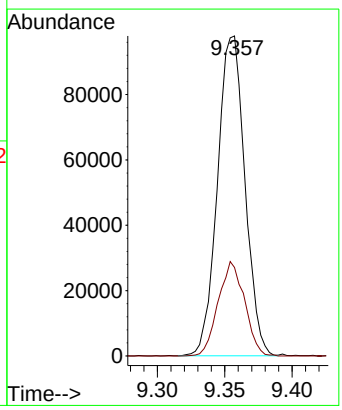


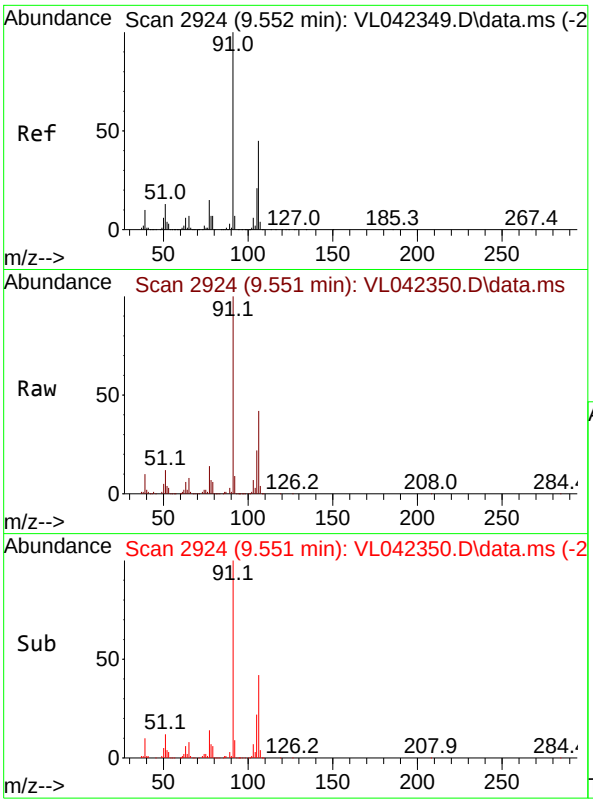


#58
Ethyl Benzene
Concen: 2.088 ppbv
RT: 9.357 min Scan# 2864
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 91 Resp: 138810

Ion	Ratio	Lower	Upper
91	100		
106	27.7	23.0	34.4



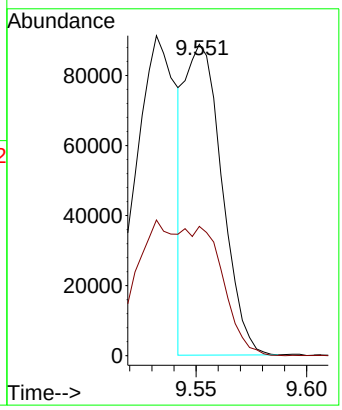


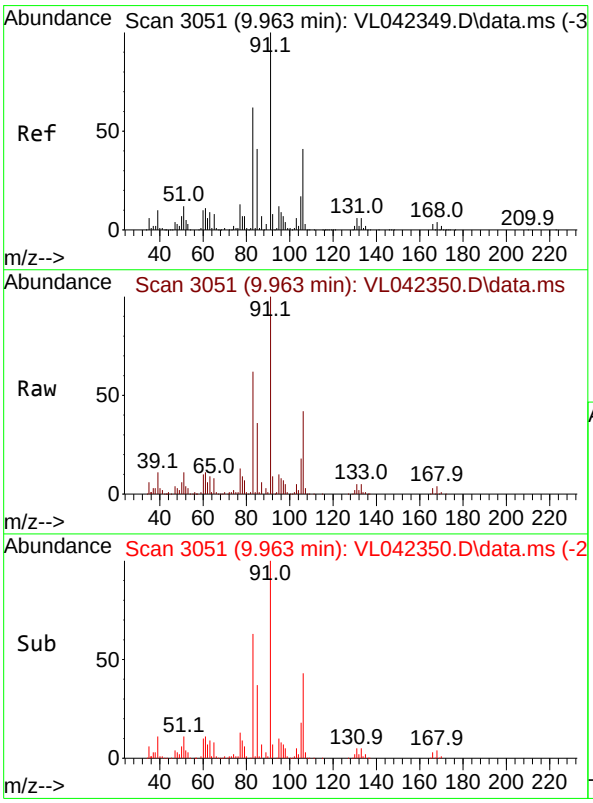
#59
m/p-Xylene
Concen: 1.934 ppbv
RT: 9.551 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 91 Resp: 103886

Ion	Ratio	Lower	Upper
91	100		
106	0.0	35.4	53.2#

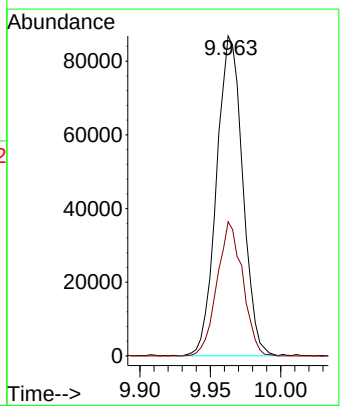


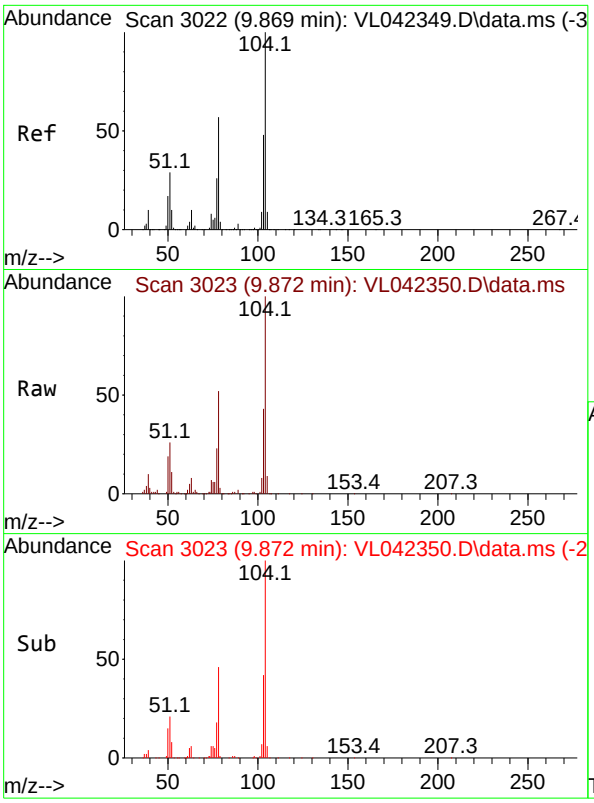


#60
o-Xylene
Concen: 2.076 ppbv
RT: 9.963 min Scan# 3051
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 91 Resp: 111972

Ion	Ratio	Lower	Upper
91	100		
106	41.2	21.1	63.4



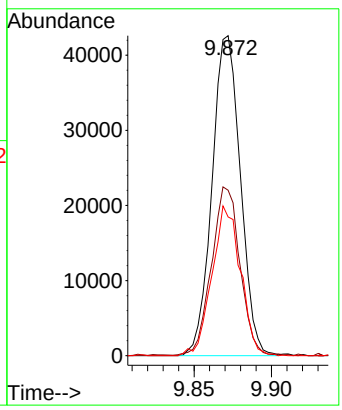


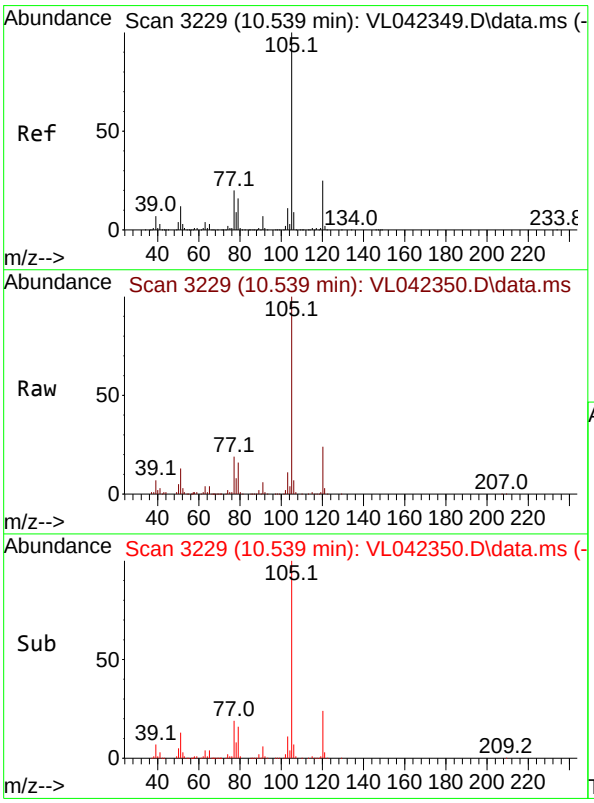
#61
Styrene
Concen: 2.106 ppbv
RT: 9.872 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

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

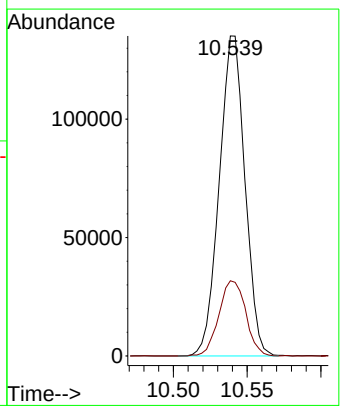


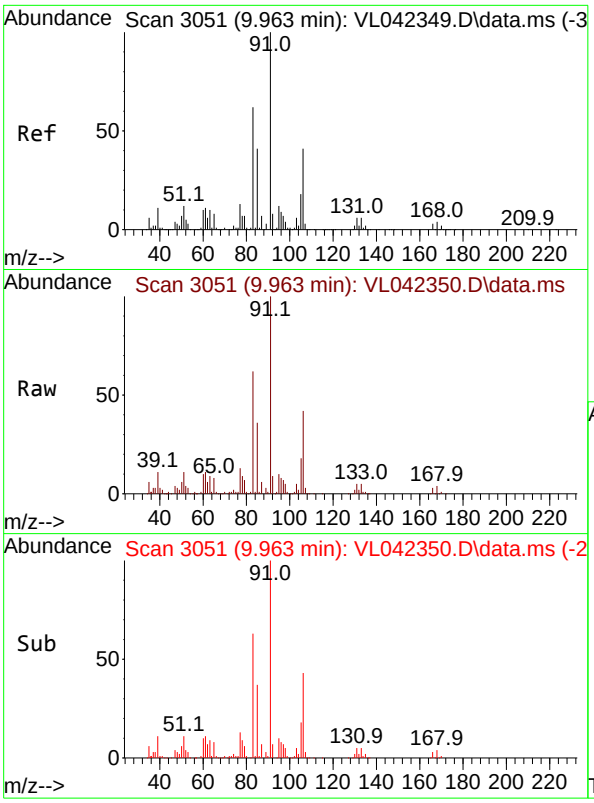


#62
Isopropylbenzene
Concen: 2.067 ppbv
RT: 10.539 min Scan# 3229
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion:105 Resp: 163716

Ion	Ratio	Lower	Upper
105	100		
120	24.6	19.8	29.8



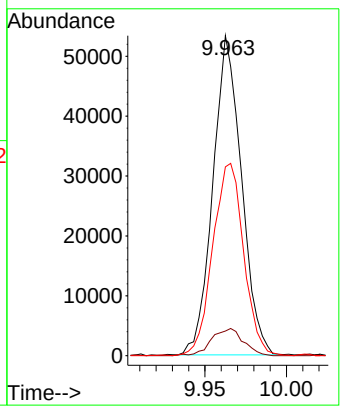


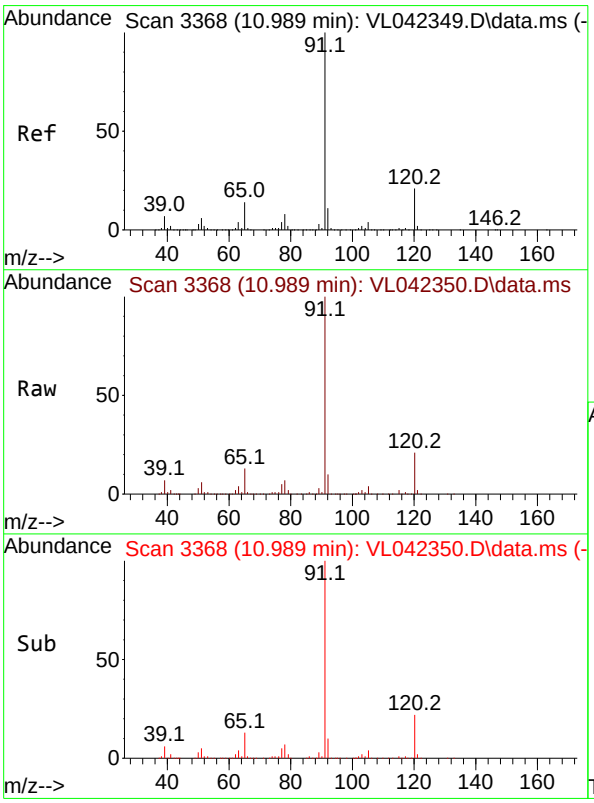
#63
1,1,2,2-Tetrachloroethane
Concen: 1.853 ppbv
RT: 9.963 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

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

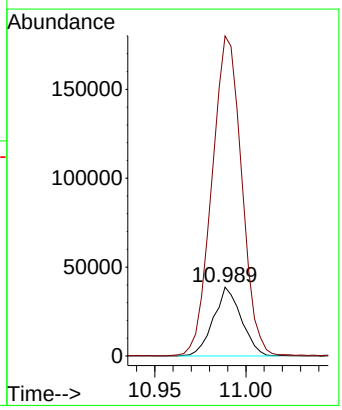


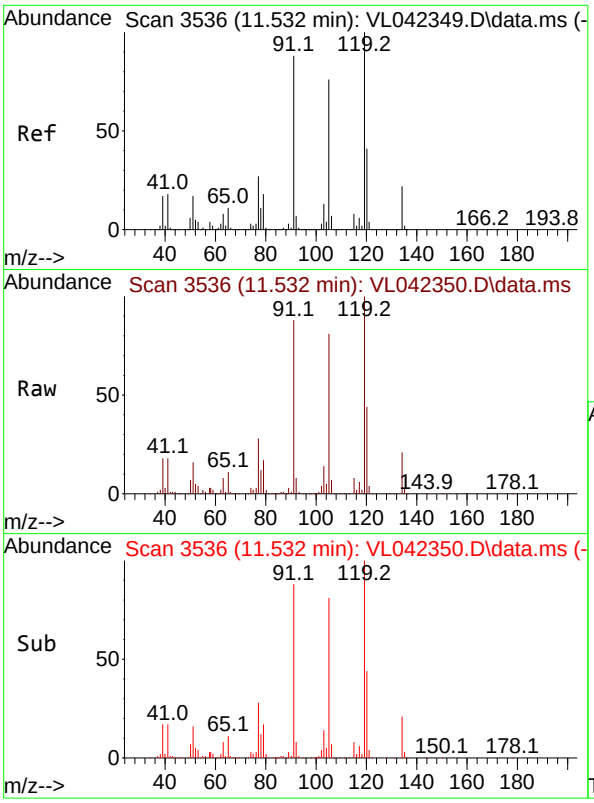


#64
n-propylbenzene
Concen: 2.058 ppbv
RT: 10.989 min Scan# 3368
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion:120 Resp: 40956

Ion	Ratio	Lower	Upper
120	100		
91	502.0	392.4	588.6



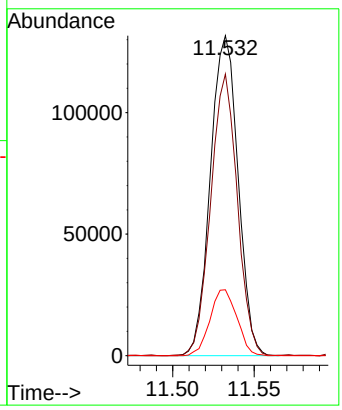


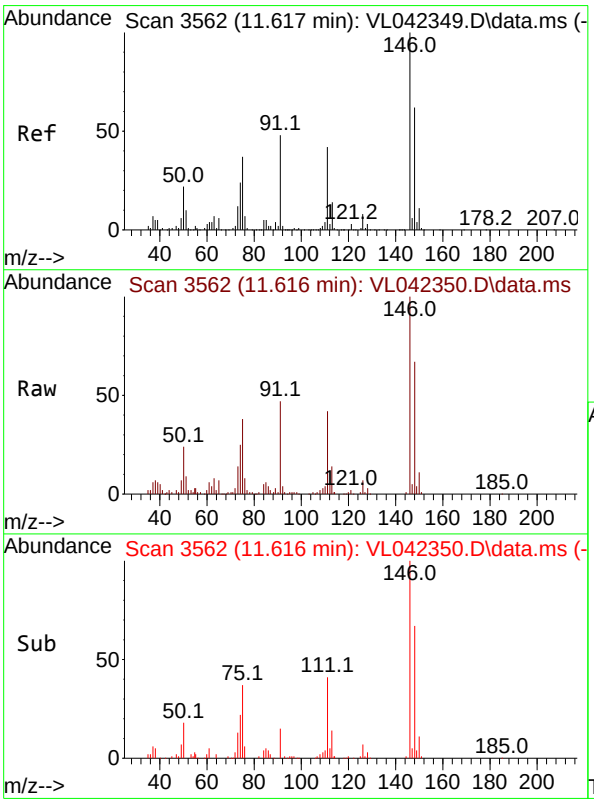
#65
tert-Butylbenzene
Concen: 2.135 ppbv
RT: 11.532 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

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

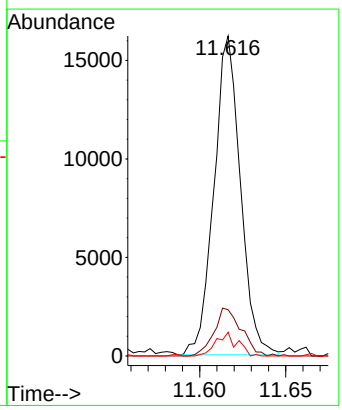


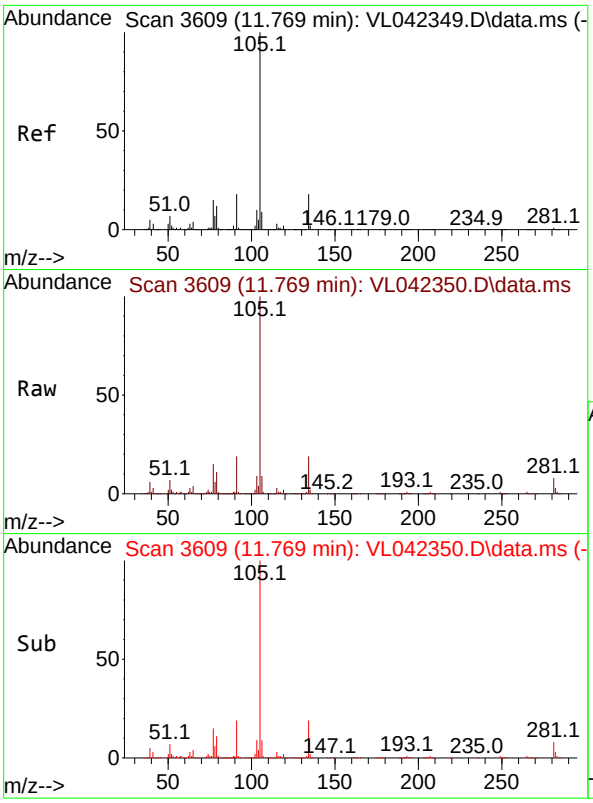


#66
Benzyl Chloride
Concen: 2.163 ppbv
RT: 11.616 min Scan# 3562
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

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



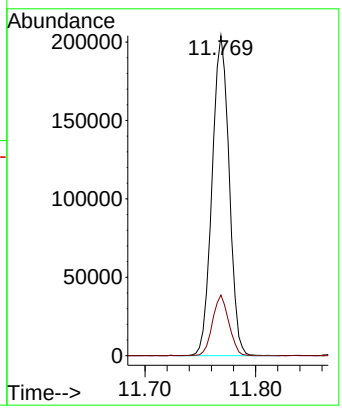


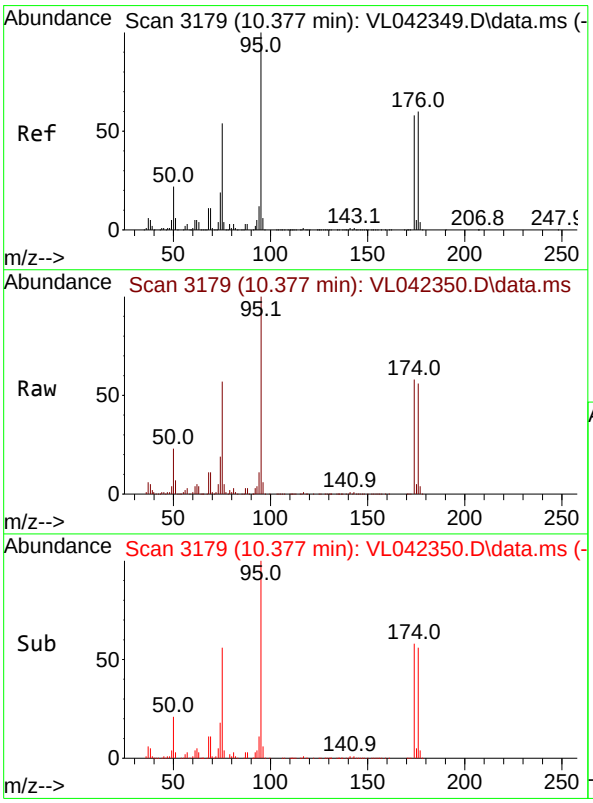
#67
sec-Butylbenzene
Concen: 2.156 ppbv
RT: 11.769 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion:105 Resp: 218327

Ion	Ratio	Lower	Upper
105	100		
134	18.1	14.6	21.8

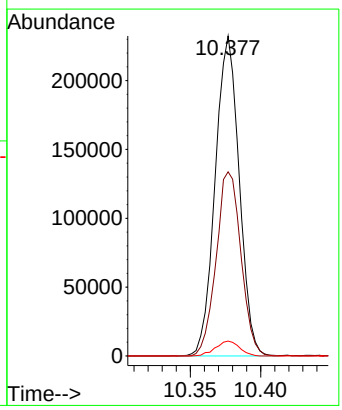


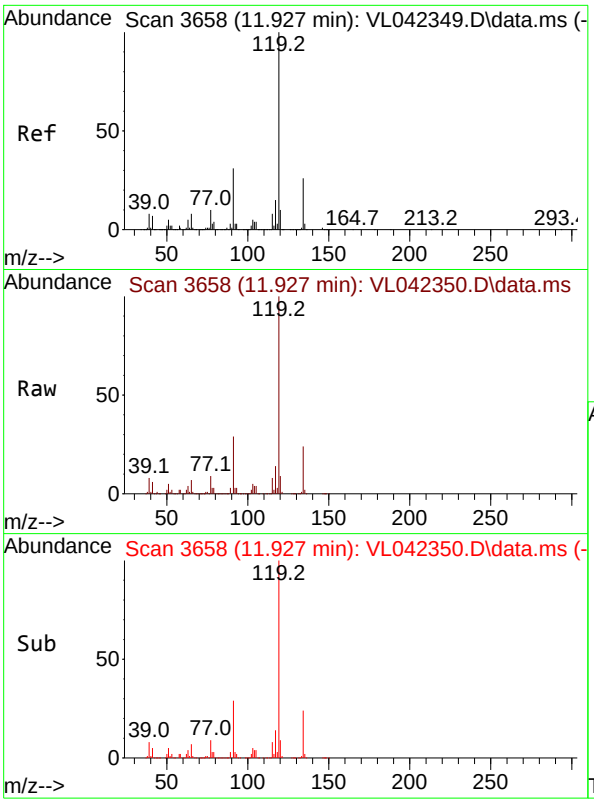


#68
1-Bromo-4-Fluorobenzene
Concen: 9.998 ppbv
RT: 10.377 min Scan# 3179
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

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



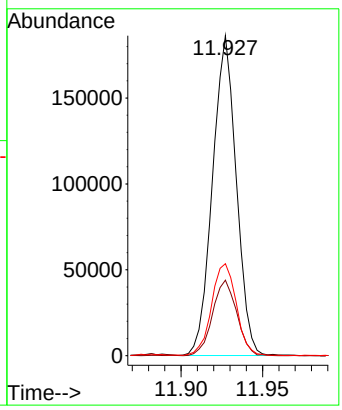


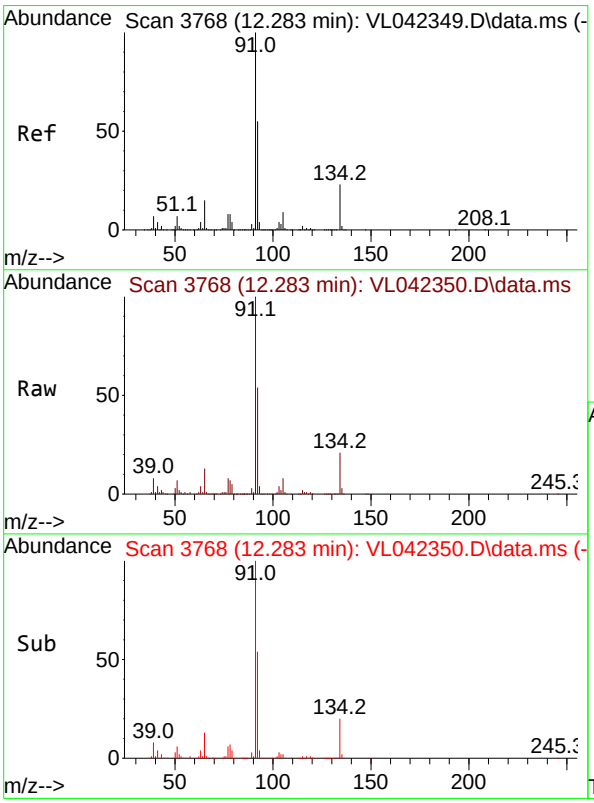
#69
p-Isopropyltoluene
Concen: 2.145 ppbv
RT: 11.927 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

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

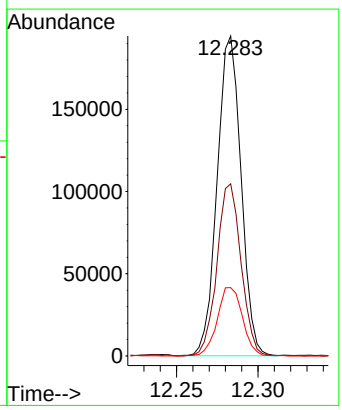


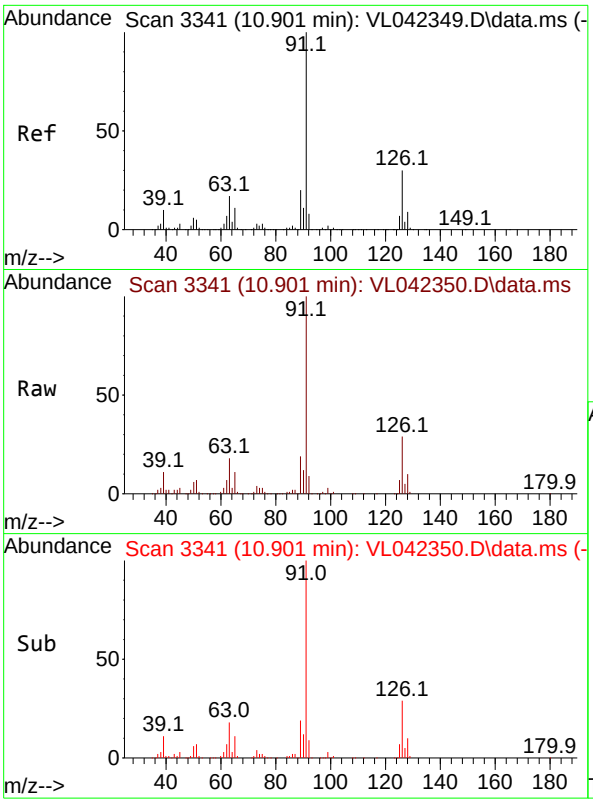


#70
n-Butylbenzene
Concen: 2.164 ppbv
RT: 12.283 min Scan# 3768
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

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



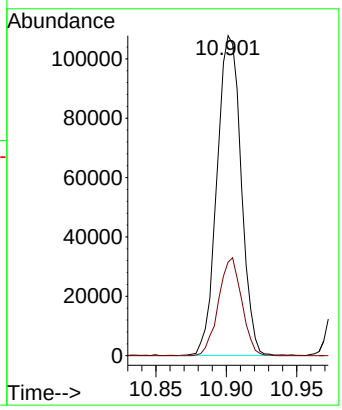


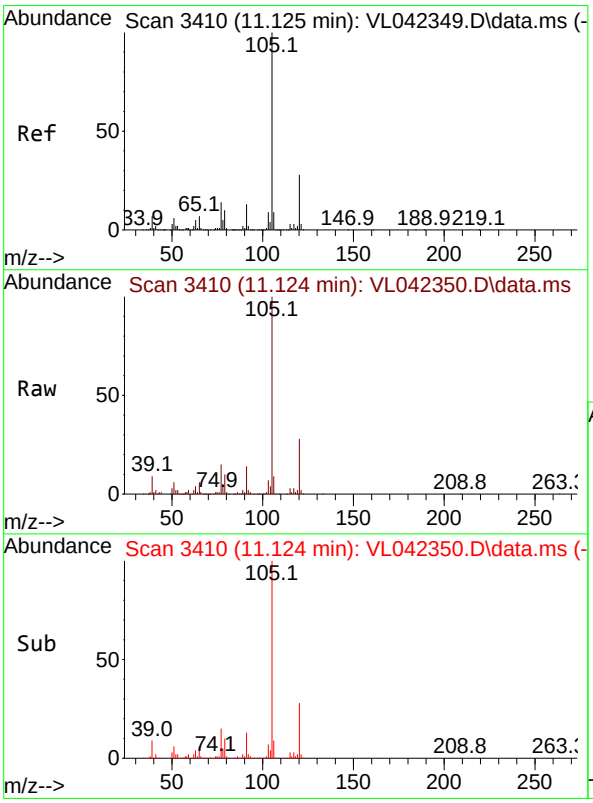
#71
2-Chlorotoluene
Concen: 2.075 ppbv
RT: 10.901 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 91 Resp: 128858

Ion	Ratio	Lower	Upper
91	100		
126	29.5	11.4	45.4

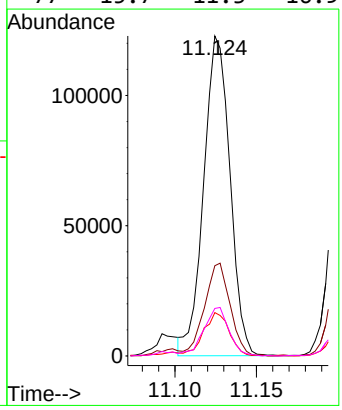


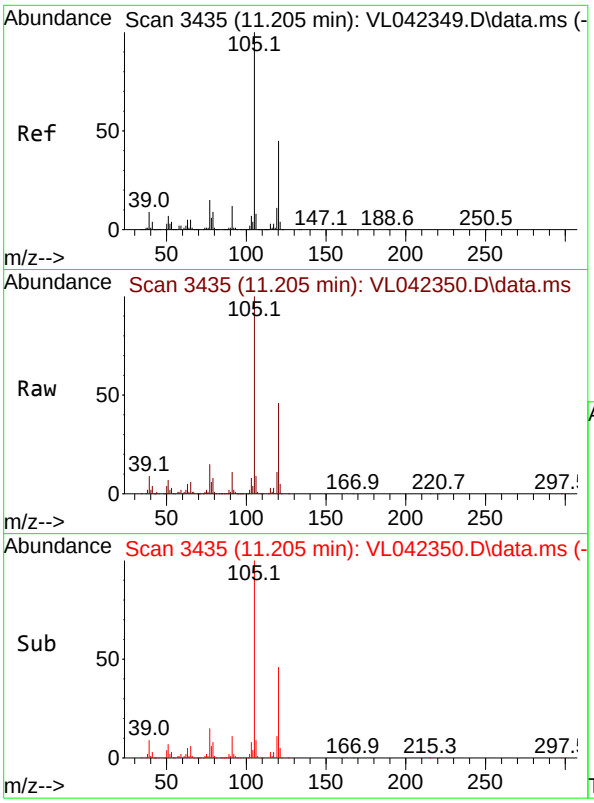


#72
4-Ethyltoluene
Concen: 2.091 ppbv
RT: 11.124 min Scan# 3410
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

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



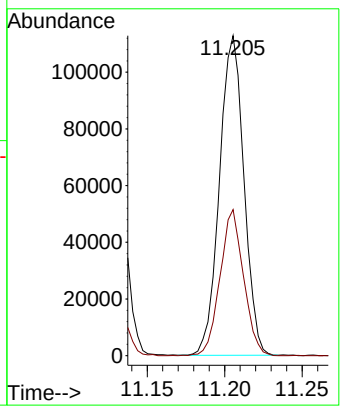


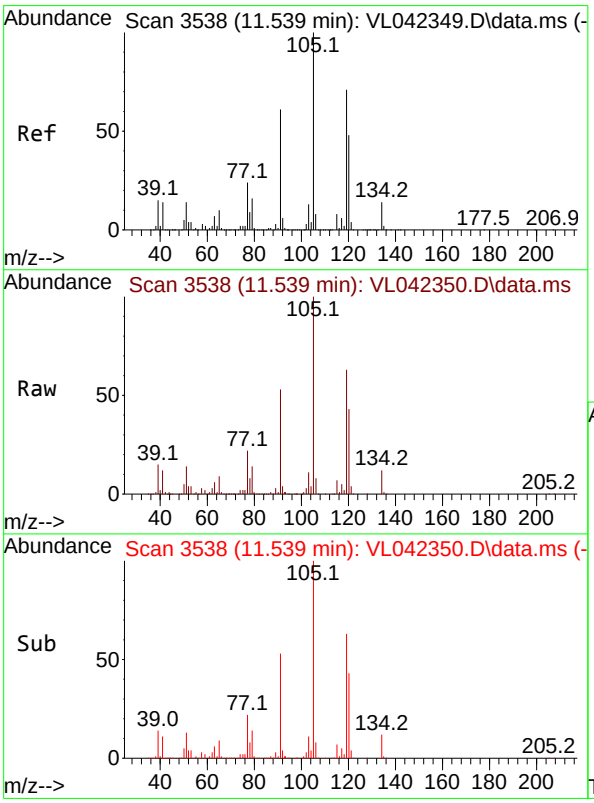
#73
1,3,5-Trimethylbenzene
Concen: 2.123 ppbv
RT: 11.205 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion:105 Resp: 123580

Ion	Ratio	Lower	Upper
105	100		
120	45.7	35.6	53.4

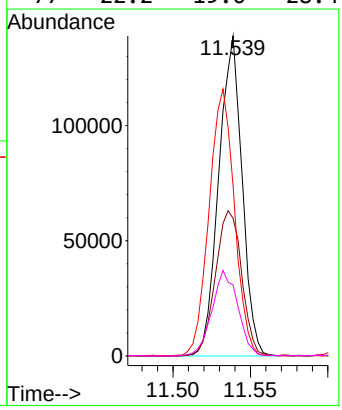


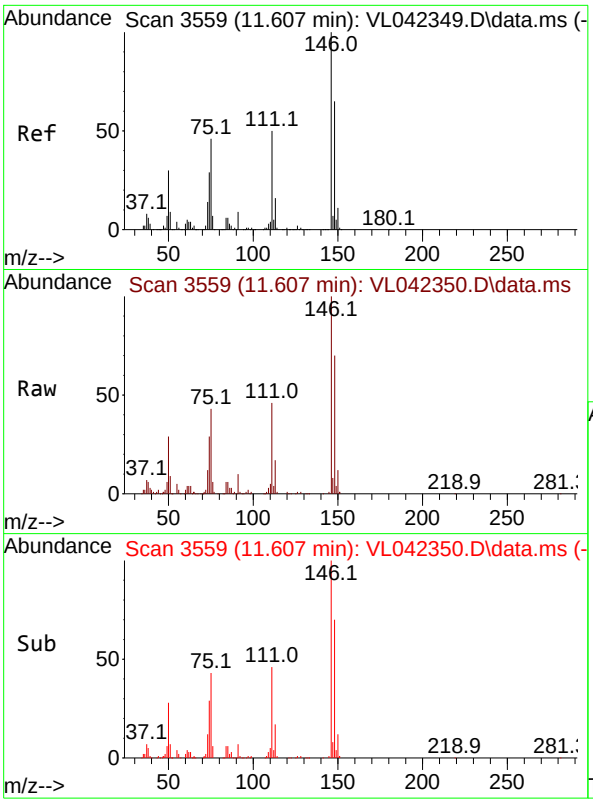


#74
1,2,4-Trimethylbenzene
Concen: 2.140 ppbv
RT: 11.539 min Scan# 3538
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

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



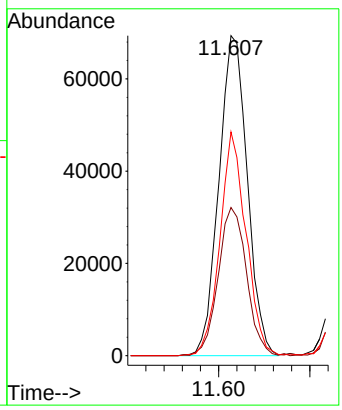


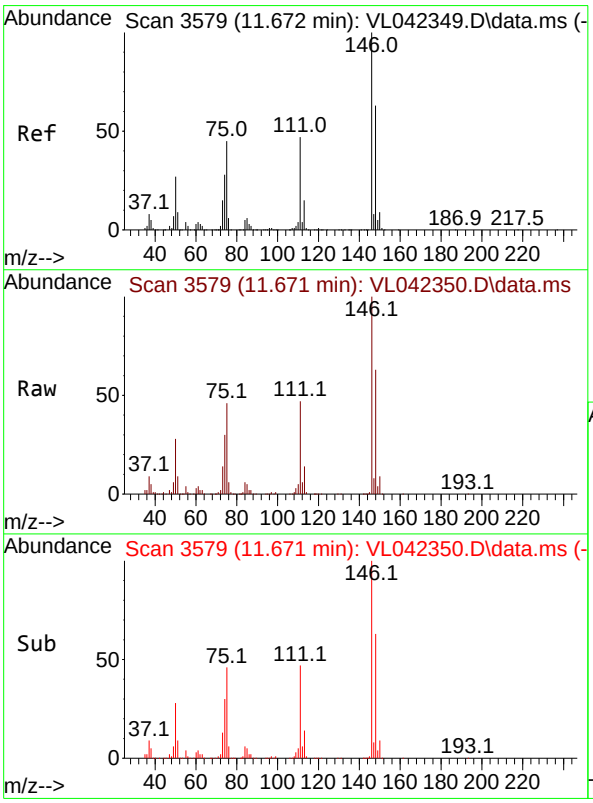
#75
1,3-Dichlorobenzene
Concen: 2.124 ppbv
RT: 11.607 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

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

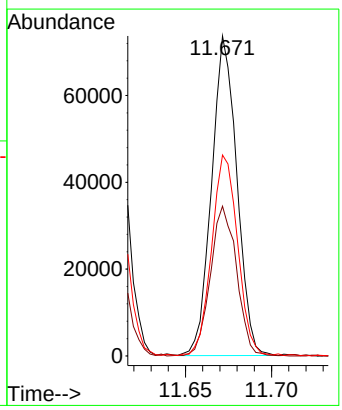


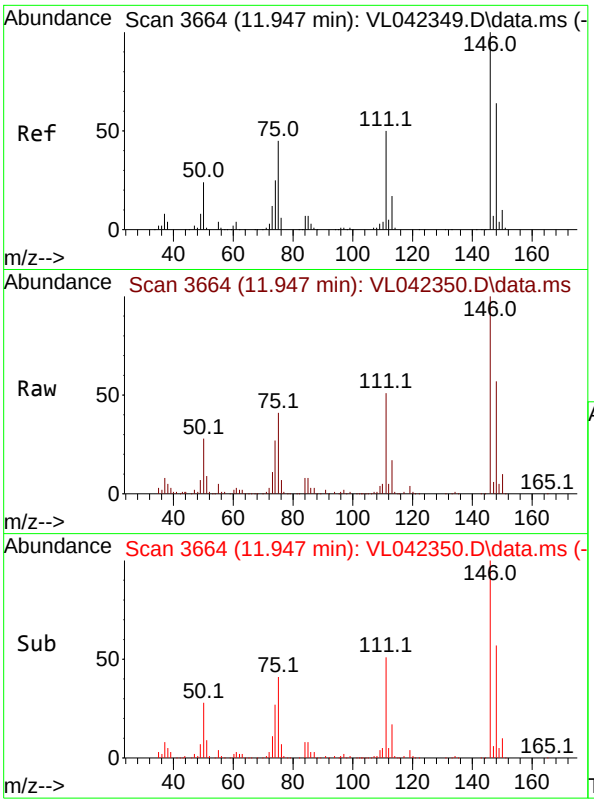


#76
1,4-Dichlorobenzene
Concen: 2.120 ppbv
RT: 11.671 min Scan# 3579
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

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



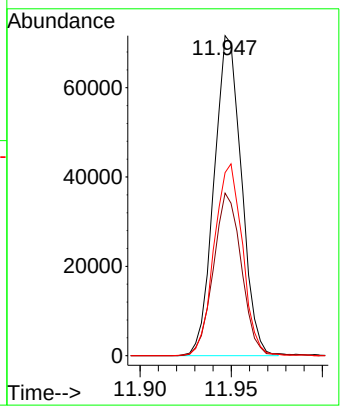


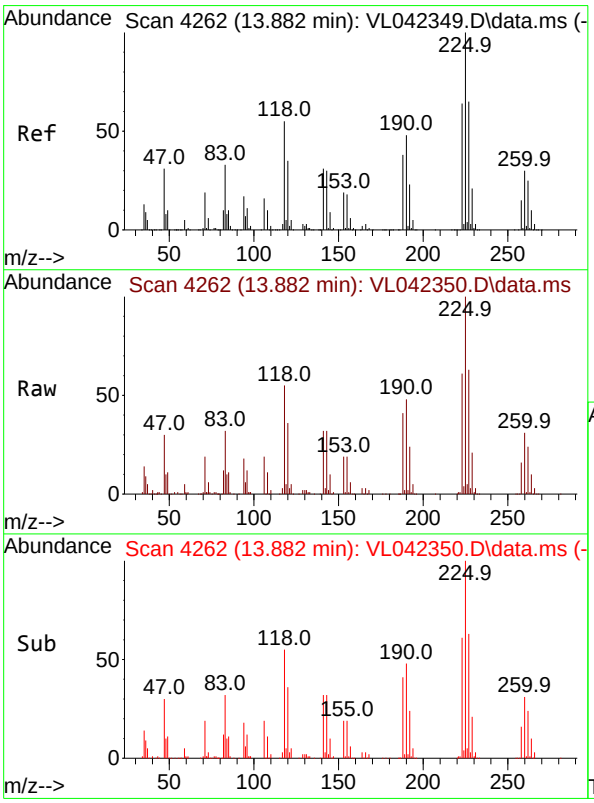
#77
1,2-Dichlorobenzene
Concen: 2.176 ppbv
RT: 11.947 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

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

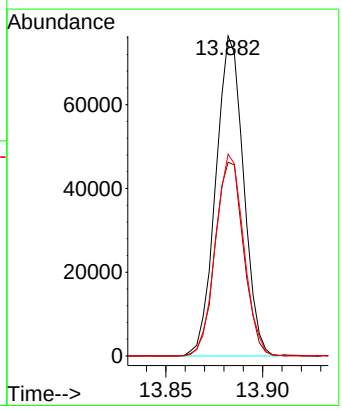


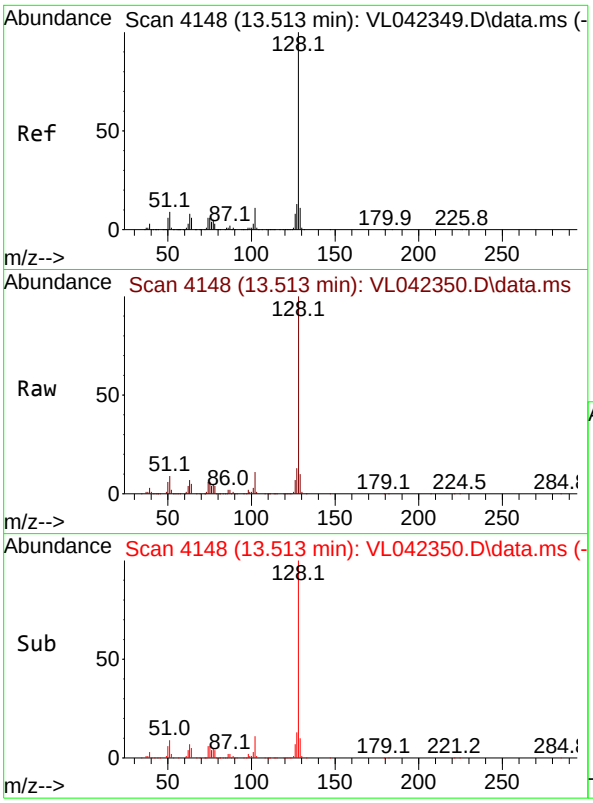


#78
Hexachloro-1,3-Butadiene
Concen: 2.194 ppbv
RT: 13.882 min Scan# 4262
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

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



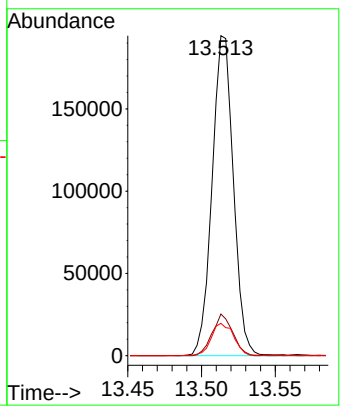


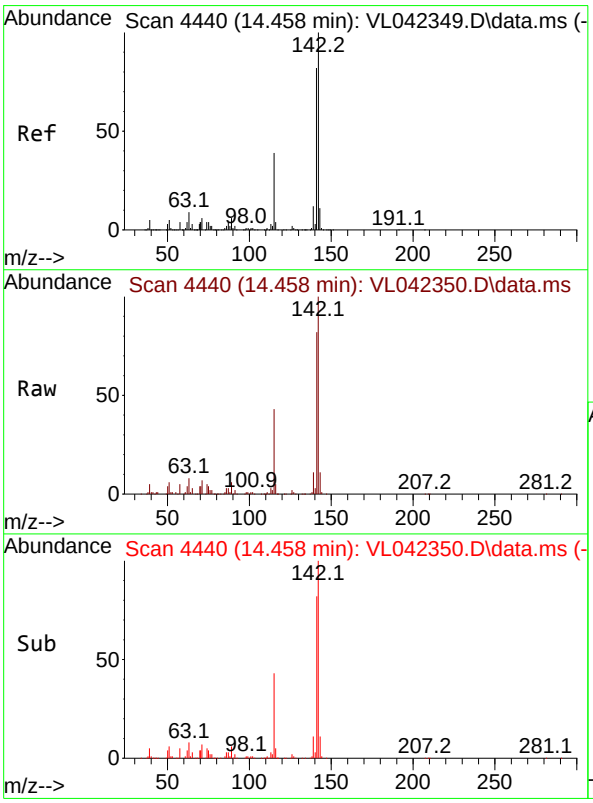
#79
Naphthalene
Concen: 2.401 ppbv
RT: 13.513 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

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

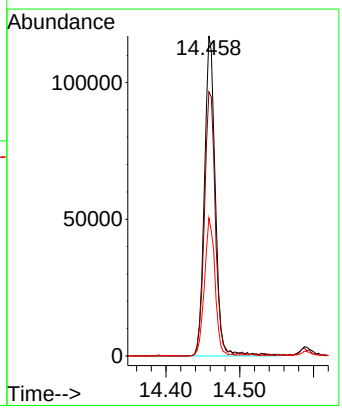


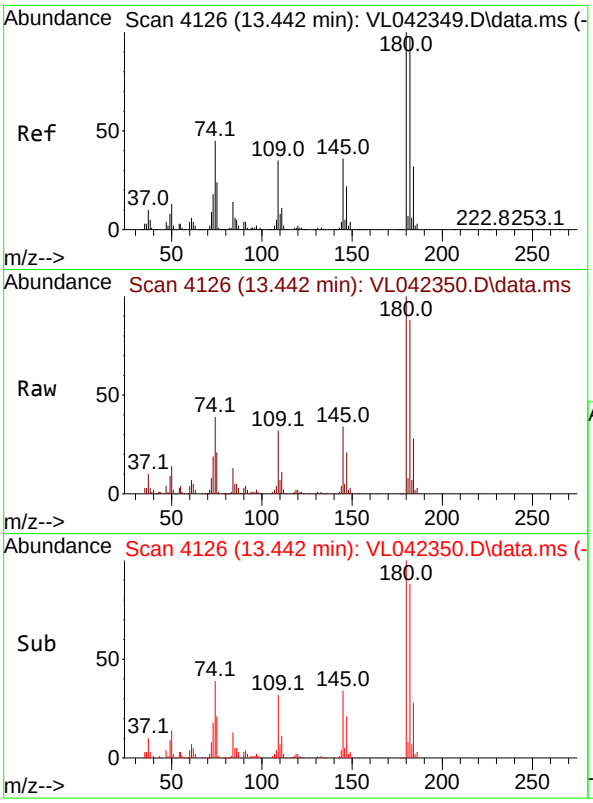


#80
Naphthalene,2-methyl-
Concen: 2.574 ppbv
RT: 14.458 min Scan# 4440
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

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



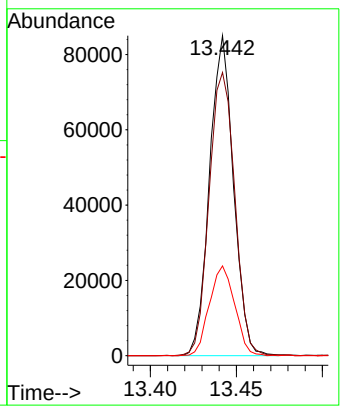


#81
1,2,4-Trichlorobenzene
Concen: 2.353 ppbv
RT: 13.442 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

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

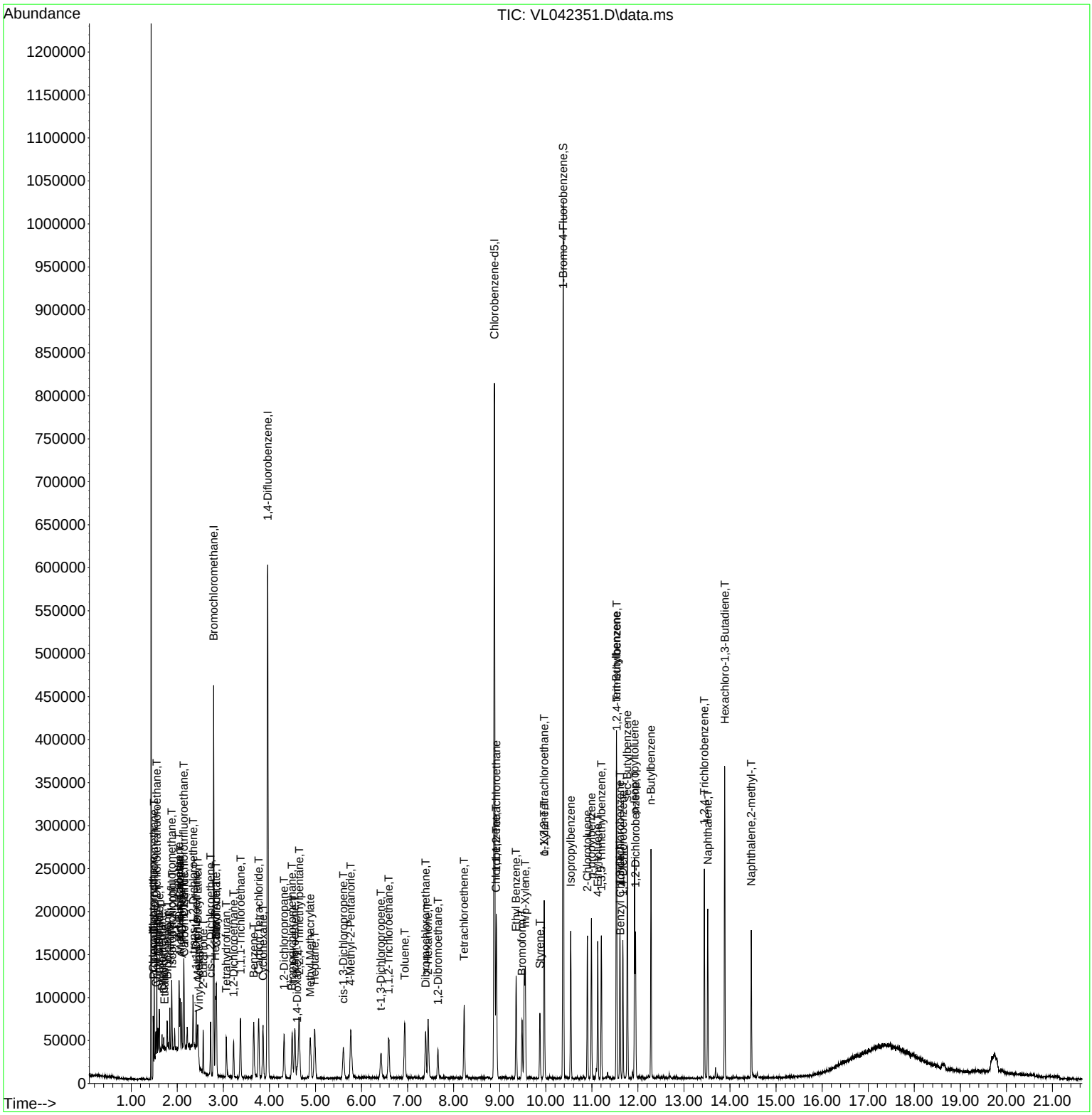
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) cis-1,3-Dichloropropene	5.603	75	13028	0.596	ppbv		95
47) 1,1,2-Trichloroethane	6.587	97	7690	0.521	ppbv	#	78
48) Dibromochloromethane	7.390	129	25948	0.997	ppbv		100
49) Bromoform	9.484	173	22413	0.984	ppbv		98
50) 4-Methyl-2-Pentanone	5.765	43	49725	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

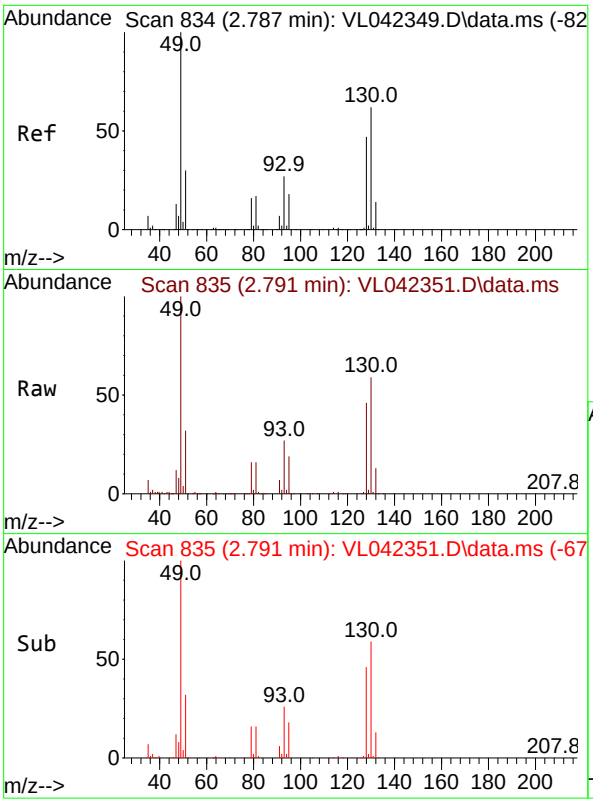
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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



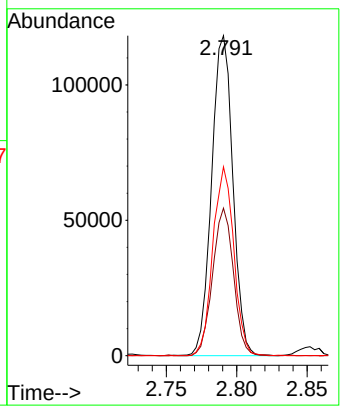


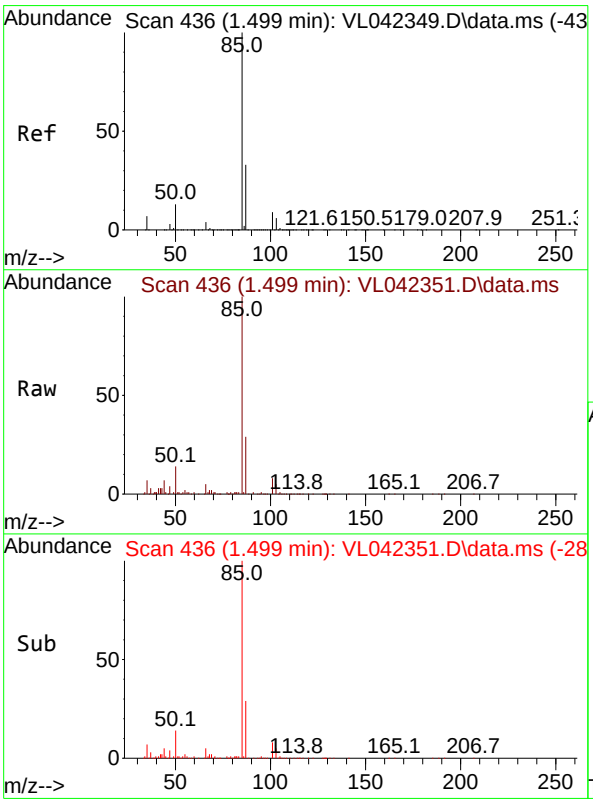
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.791 min Scan# 8
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

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

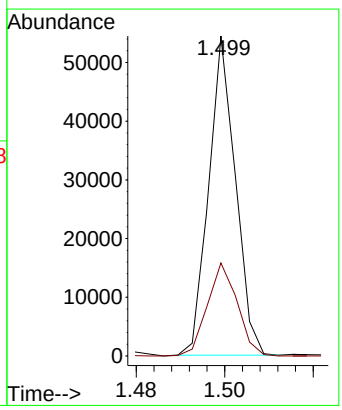


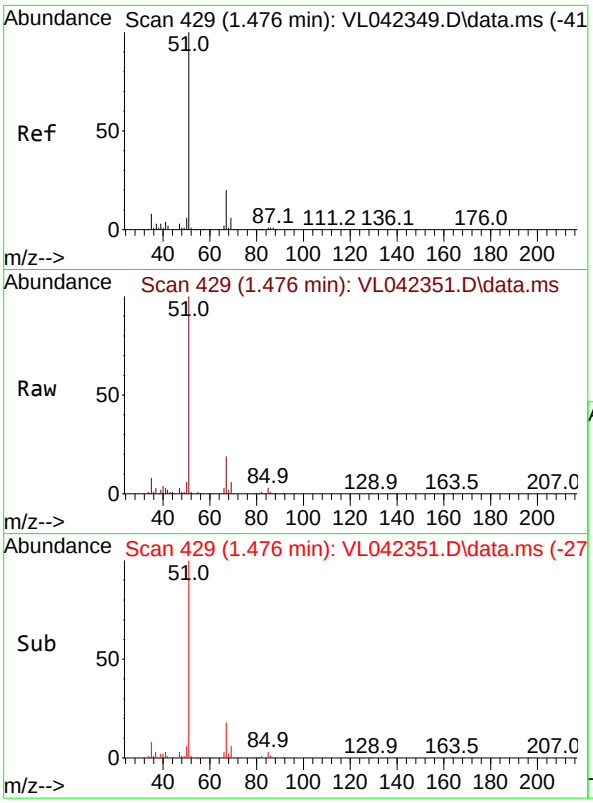


#2
Dichlorodifluoromethane
Concen: 1.040 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 85 Resp: 22816

Ion	Ratio	Lower	Upper
85	100		
87	29.1	26.6	39.8



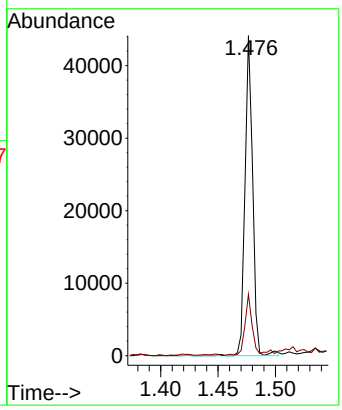


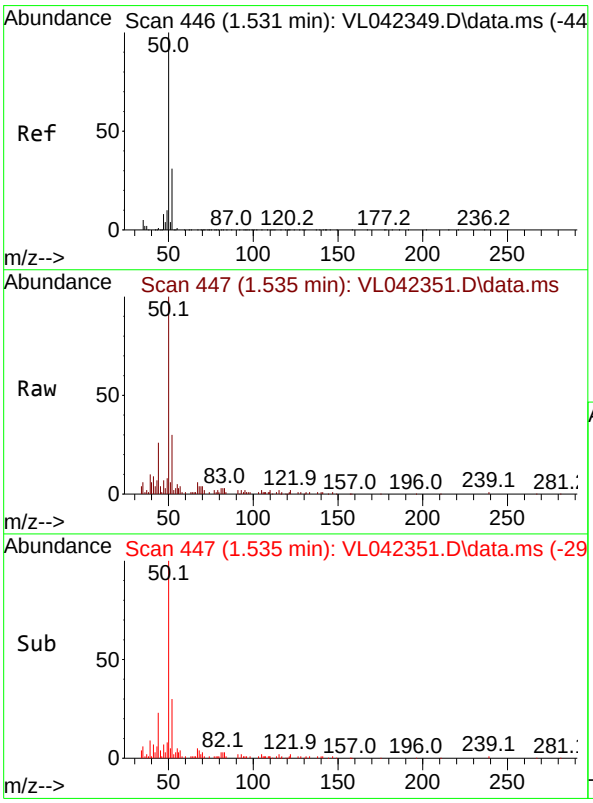
#3
Chlorodifluoromethane
Concen: 0.985 ppbv
RT: 1.476 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 51 Resp: 20573

Ion	Ratio	Lower	Upper
51	100		
67	19.1	16.2	24.4

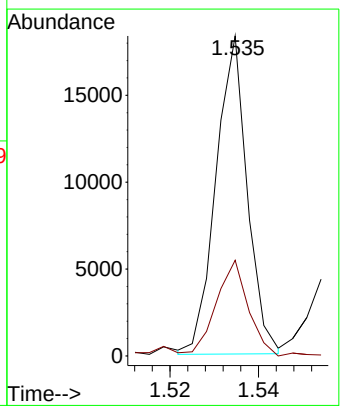


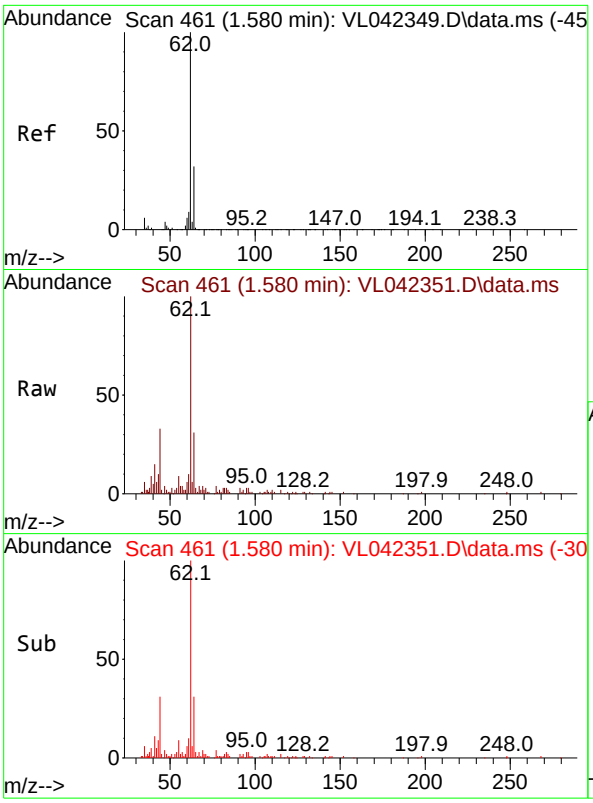


#4
Chloromethane
Concen: 1.038 ppbv
RT: 1.535 min Scan# 447
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 50 Resp: 9008

Ion	Ratio	Lower	Upper
50	100		
52	30.4	24.7	37.1



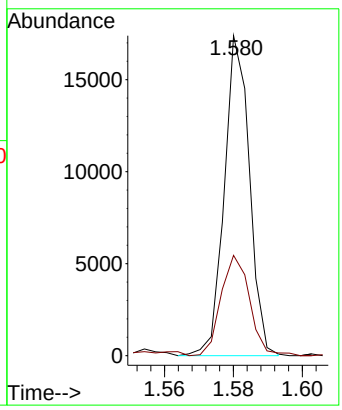


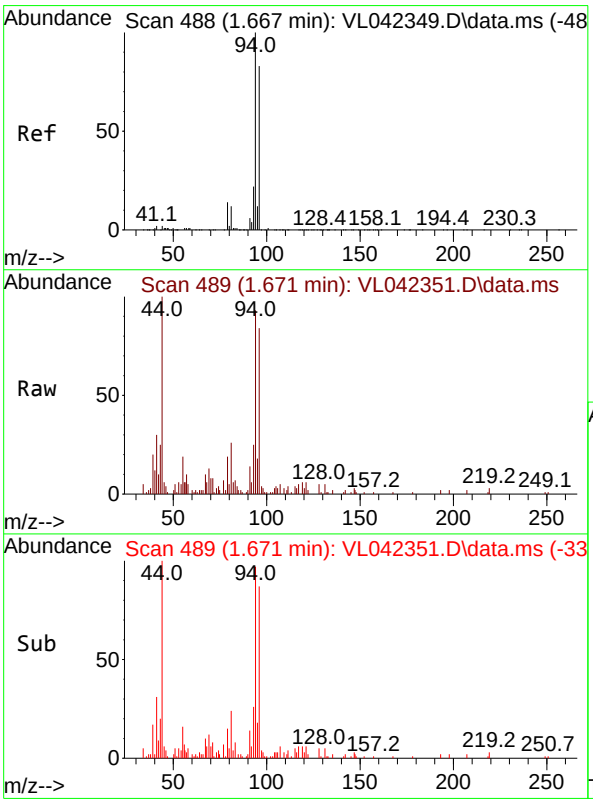
#5
Vinyl Chloride
Concen: 0.932 ppbv
RT: 1.580 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 62 Resp: 8807

Ion	Ratio	Lower	Upper
62	100		
64	30.5	25.4	38.0

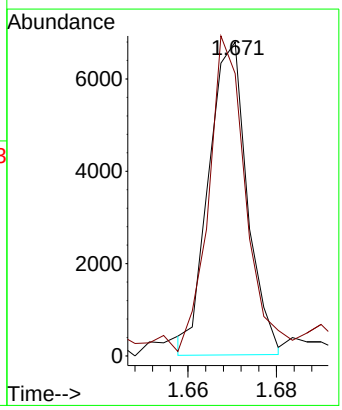


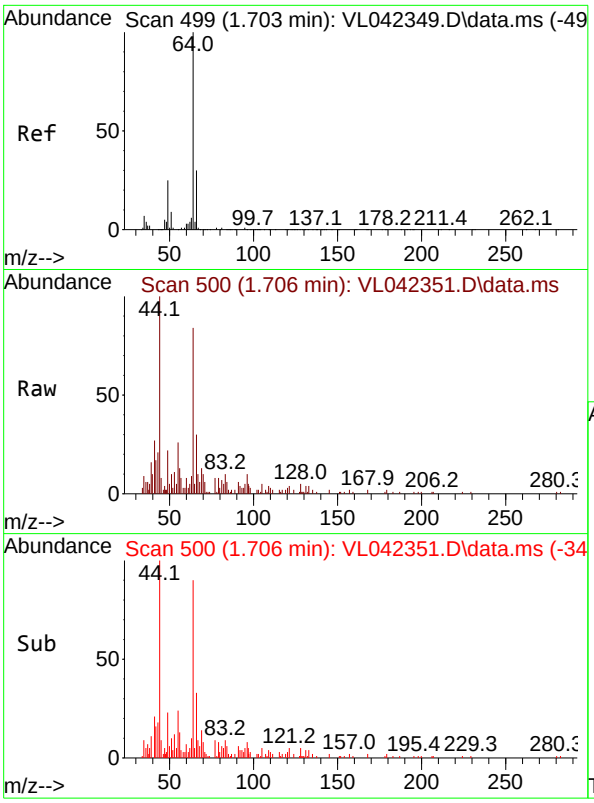


#6
Bromomethane
Concen: 1.001 ppbv
RT: 1.671 min Scan# 489
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 94 Resp: 4099

Ion	Ratio	Lower	Upper
94	100		
96	91.0	66.2	99.2



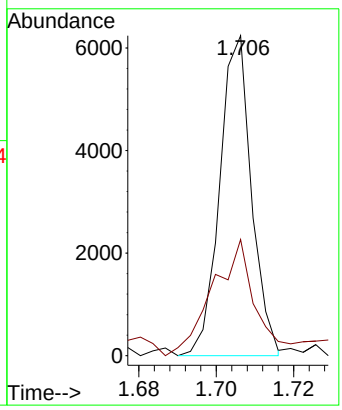


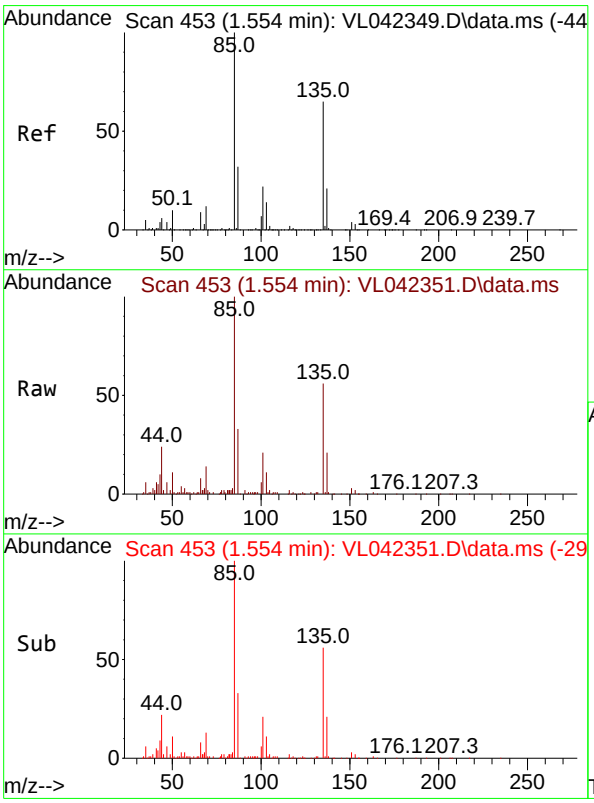
#7
Chloroethane
Concen: 1.041 ppbv
RT: 1.706 min Scan# 5
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 64 Resp: 3559

Ion	Ratio	Lower	Upper
64	100		
66	36.3	24.6	37.0

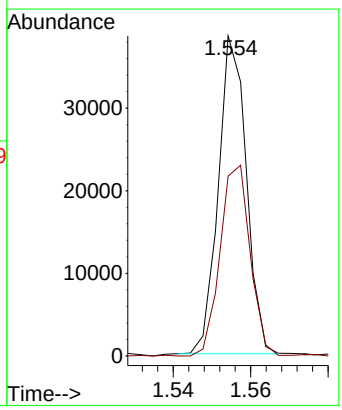


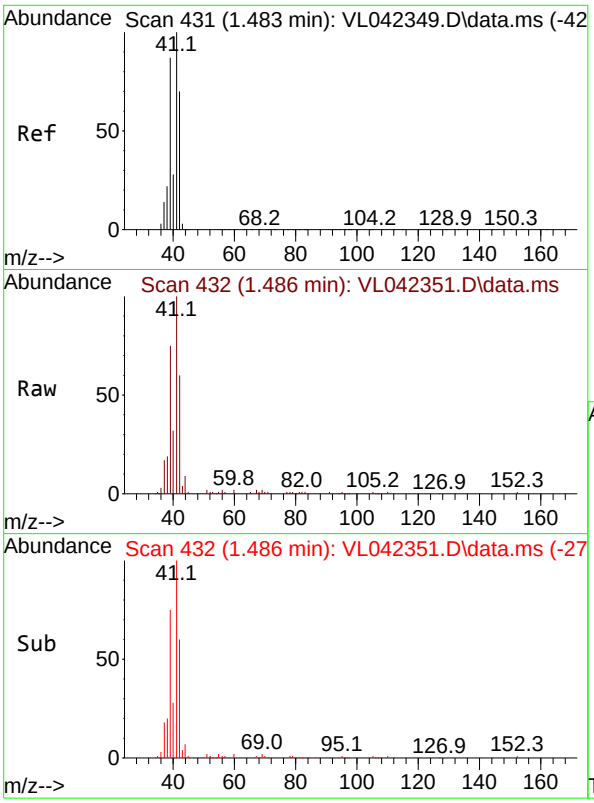


#8
Dichlorotetrafluoroethane
Concen: 1.022 ppbv
RT: 1.554 min Scan# 453
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 85 Resp: 19251

Ion	Ratio	Lower	Upper
85	100		
135	65.2	52.2	78.2



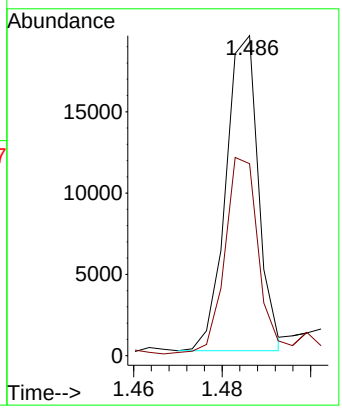


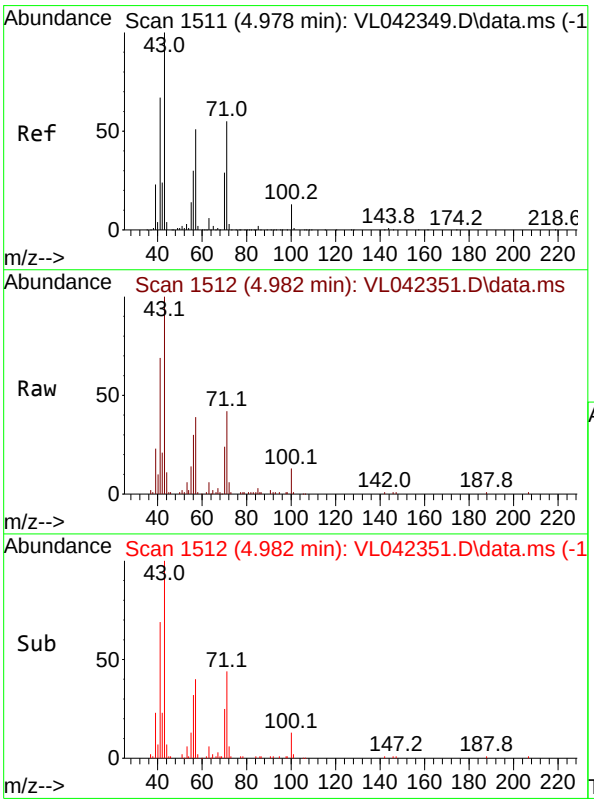
#9
Propene
Concen: 1.040 ppbv
RT: 1.486 min Scan# 4
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 41 Resp: 9892

Ion	Ratio	Lower	Upper
41	100		
42	77.2	56.2	84.4

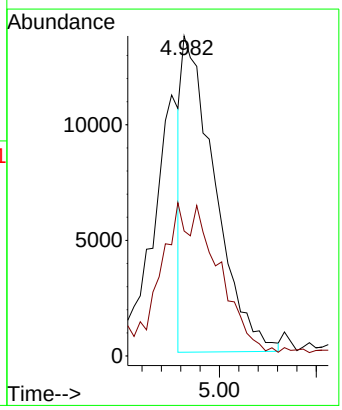


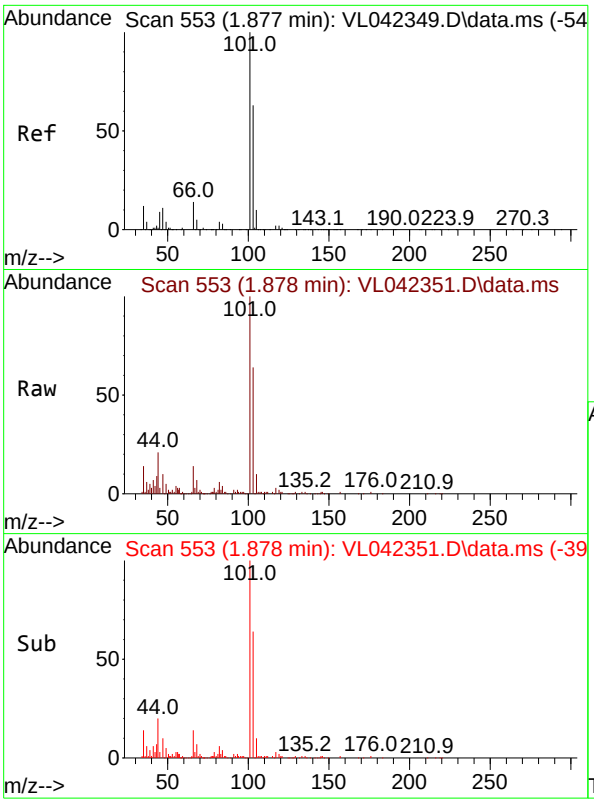


#10
Heptane
Concen: 0.633 ppbv
RT: 4.982 min Scan# 1512
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 43 Resp: 16193

Ion	Ratio	Lower	Upper
43	100		
57	84.7	39.9	59.9#



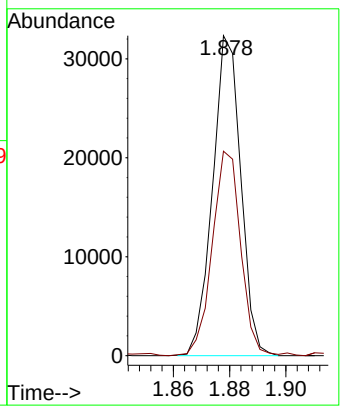


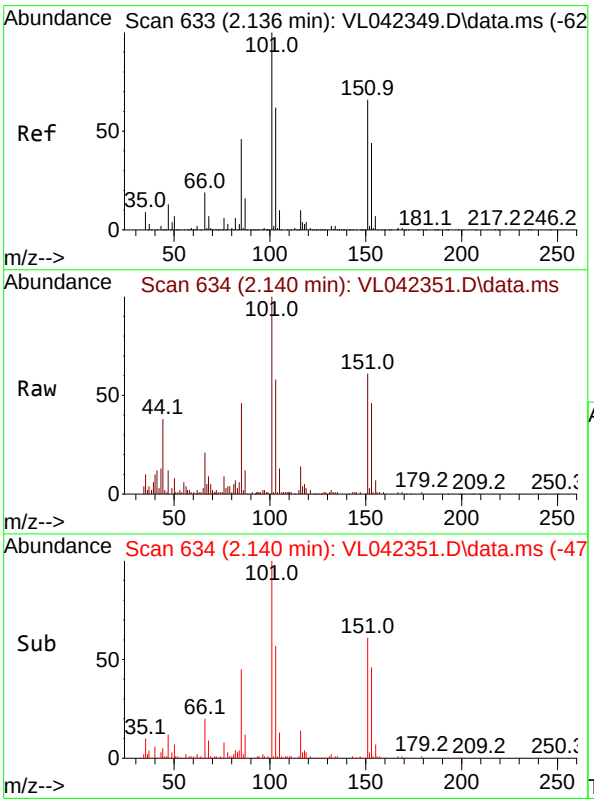
#11
Trichlorofluoromethane
Concen: 1.075 ppbv
RT: 1.878 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion:101 Resp: 22428

Ion	Ratio	Lower	Upper
101	100		
103	63.6	50.1	75.1

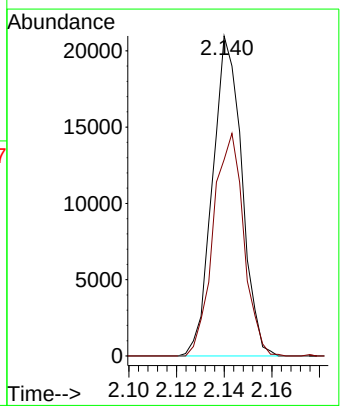


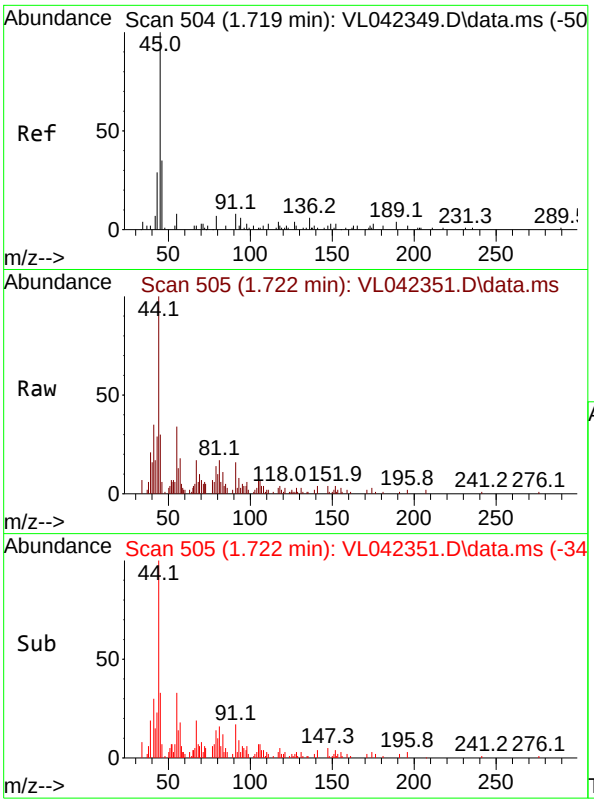


#12
1,1,2-Trichlorotrifluoroethane
Concen: 1.047 ppbv
RT: 2.140 min Scan# 634
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion:101 Resp: 17865

Ion	Ratio	Lower	Upper
101	100		
151	72.6	57.0	85.6



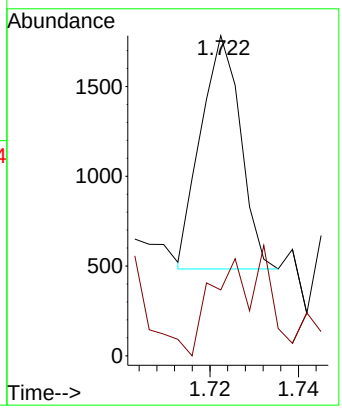


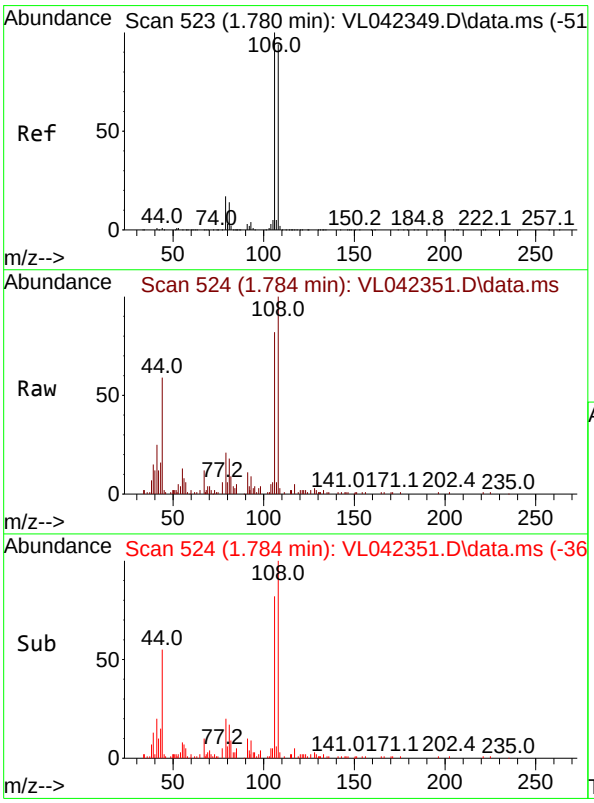
#13
Ethanol
Concen: 1.042 ppbv
RT: 1.722 min Scan# 5
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 45 Resp: 810

Ion	Ratio	Lower	Upper
45	100		
46	95.8	21.9	87.7#

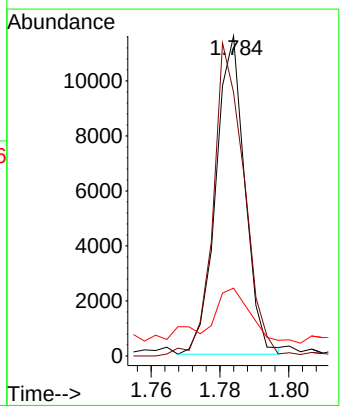


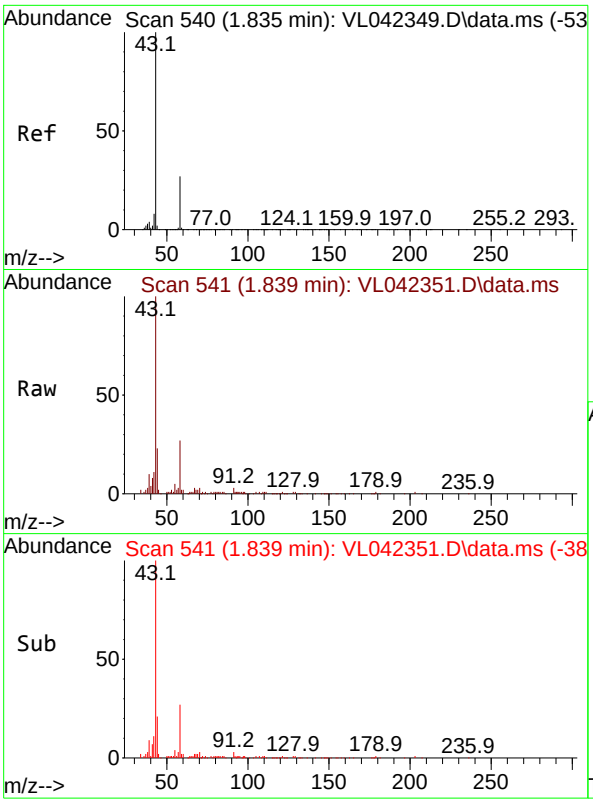


#14
Bromoethene
Concen: 1.052 ppbv
RT: 1.784 min Scan# 524
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

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#



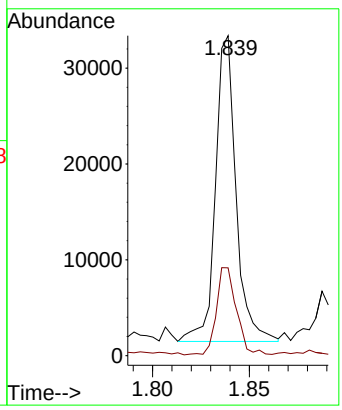


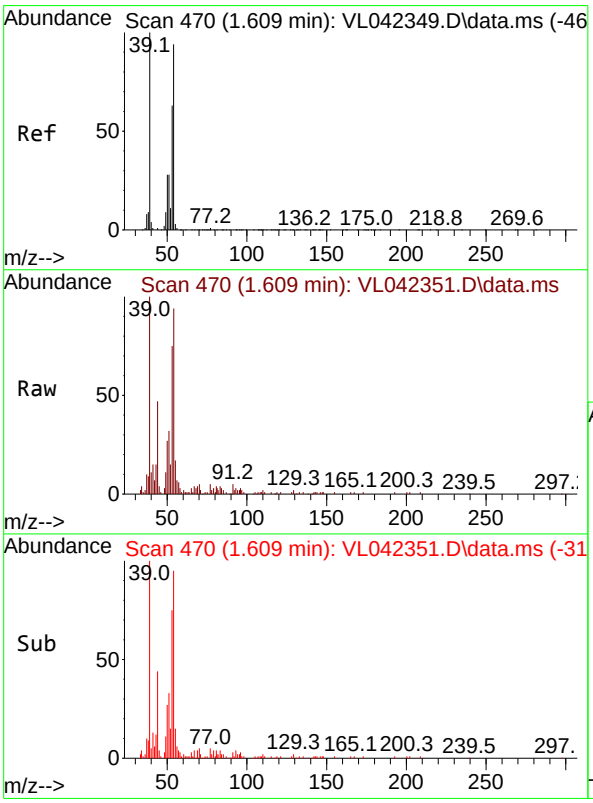
#15
Acetone
Concen: 1.158 ppbv
RT: 1.839 min Scan# 54
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 43 Resp: 23537

Ion	Ratio	Lower	Upper
43	100		
58	29.4	22.4	33.6

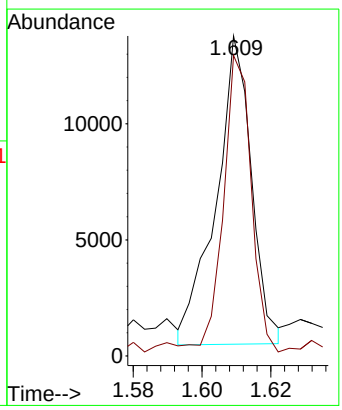


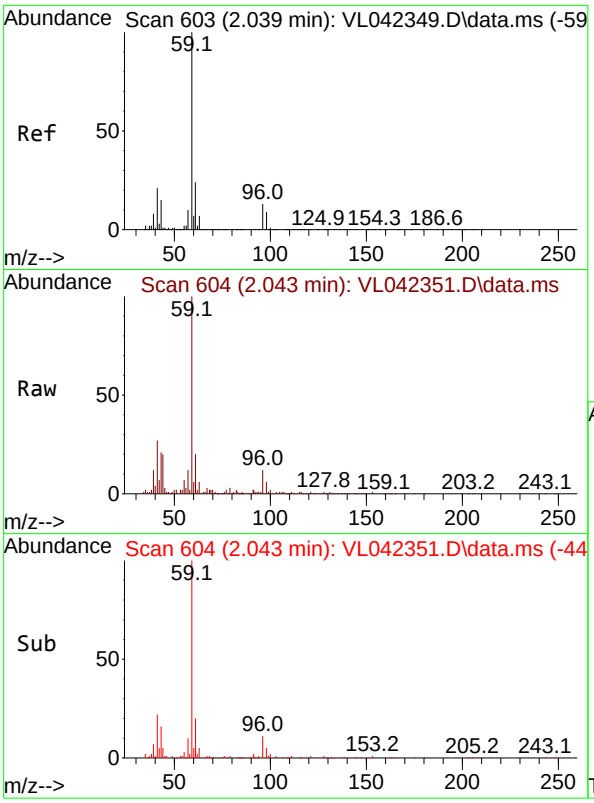


#16
1,3-Butadiene
Concen: 0.995 ppbv
RT: 1.609 min Scan# 470
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 39 Resp: 9495

Ion	Ratio	Lower	Upper
39	100		
54	77.6	64.9	97.3



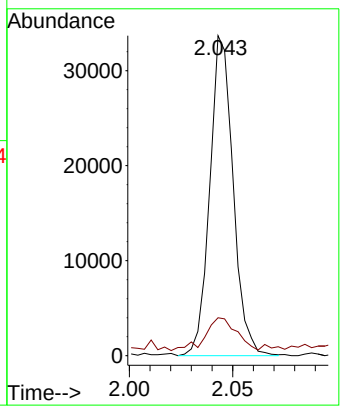


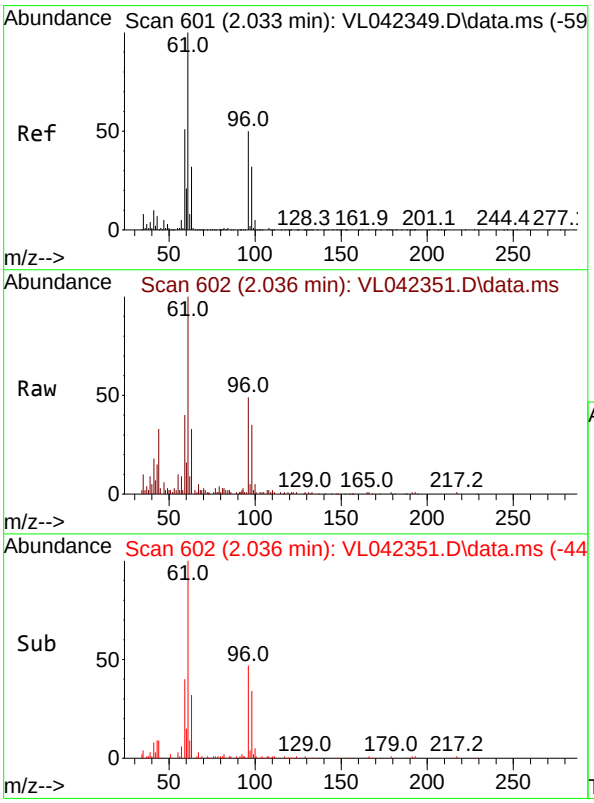
#17
tert-Butyl alcohol
Concen: 1.051 ppbv
RT: 2.043 min Scan# 6
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 59 Resp: 26477

Ion	Ratio	Lower	Upper
59	100		
57	14.6	8.7	13.1#

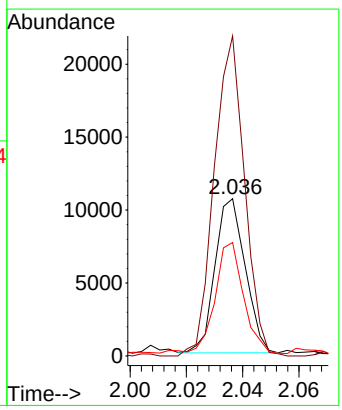


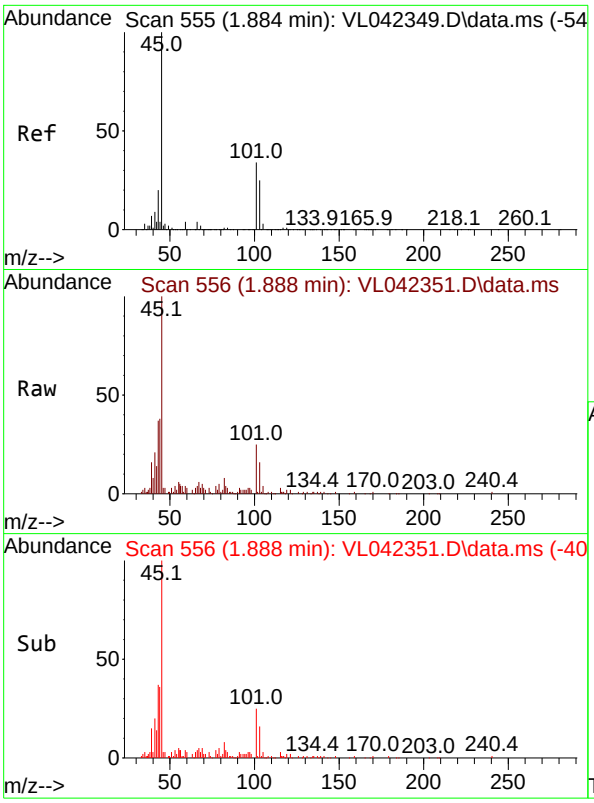


#18
1,1-Dichloroethene
Concen: 0.962 ppbv
RT: 2.036 min Scan# 602
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

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



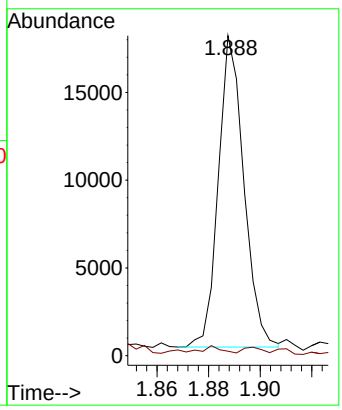


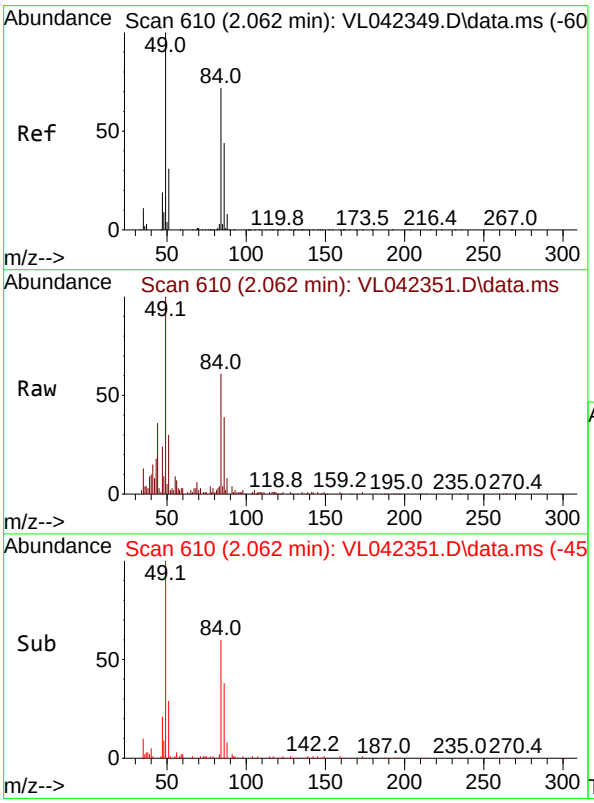
#19
Isopropyl Alcohol
Concen: 1.078 ppbv
RT: 1.888 min Scan# 5
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 45 Resp: 12175

Ion	Ratio	Lower	Upper
45	100		
58	3.8	34.5	51.7#

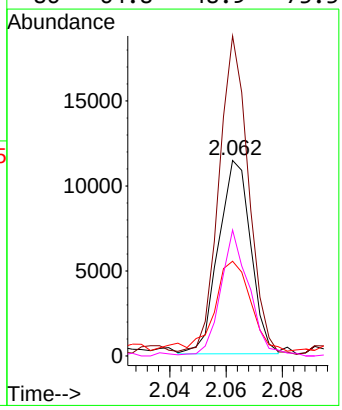


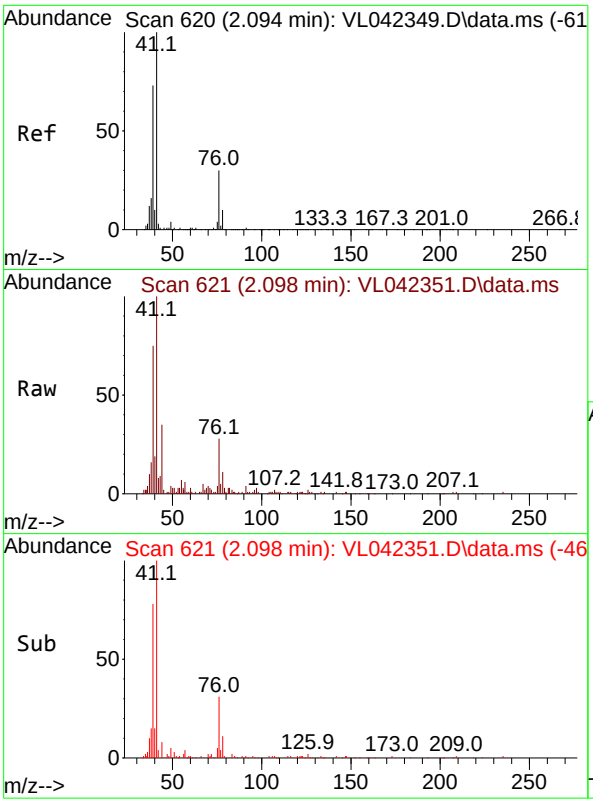


#20
Methylene Chloride
Concen: 1.136 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

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



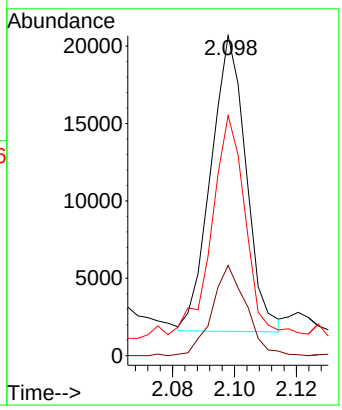


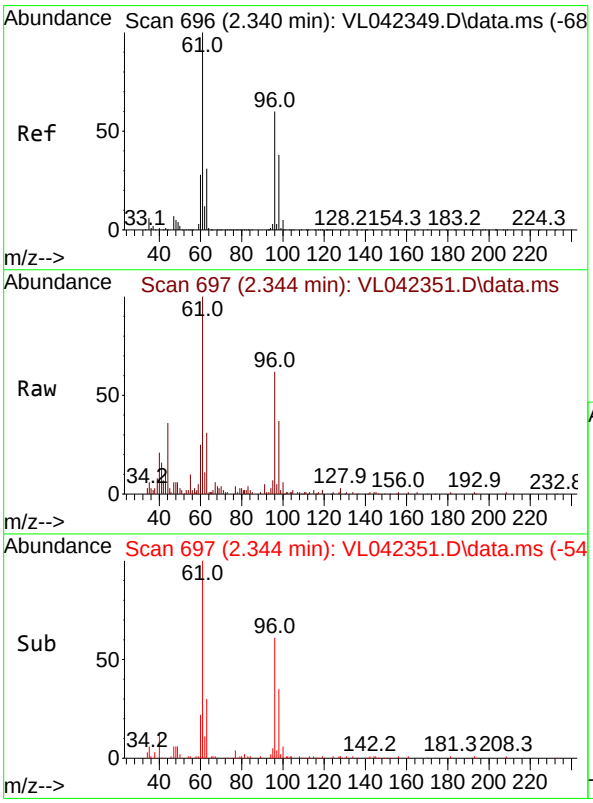
#21
Allyl Chloride
Concen: 1.073 ppbv
RT: 2.098 min Scan# 6
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

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

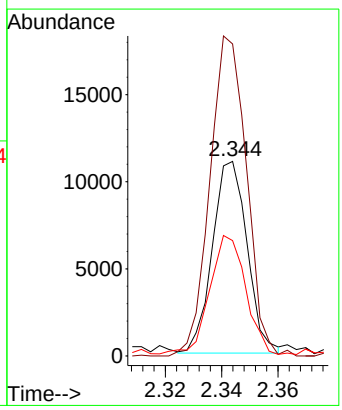


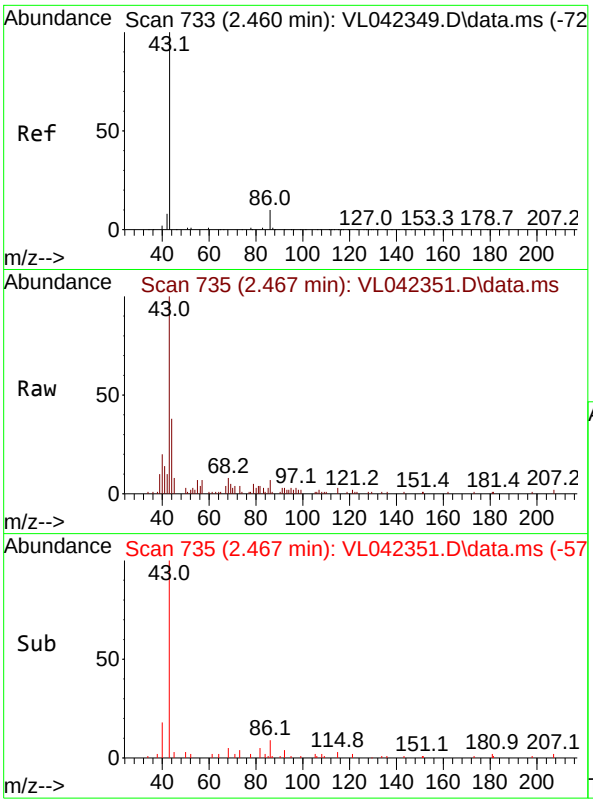


#22
trans-1,2-Dichloroethene
Concen: 1.038 ppbv
RT: 2.344 min Scan# 697
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

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



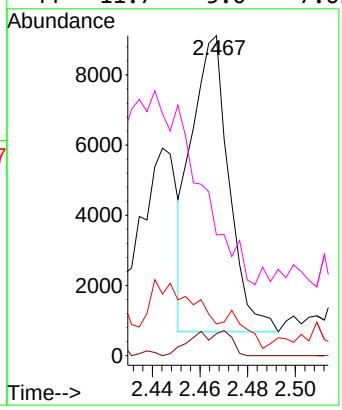


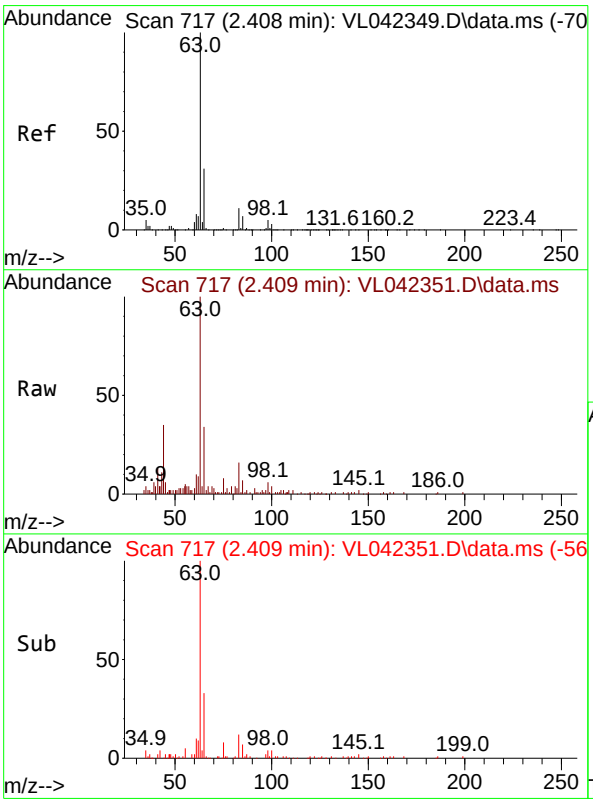
#23
Vinyl Acetate
Concen: 1.122 ppbv
RT: 2.467 min Scan# 7
Delta R.T. 0.007 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

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#

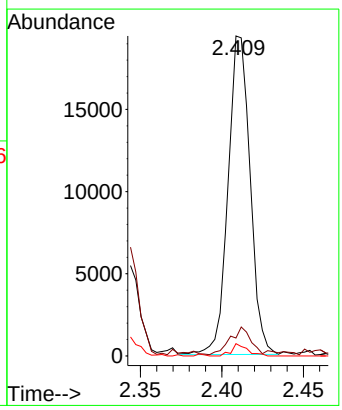


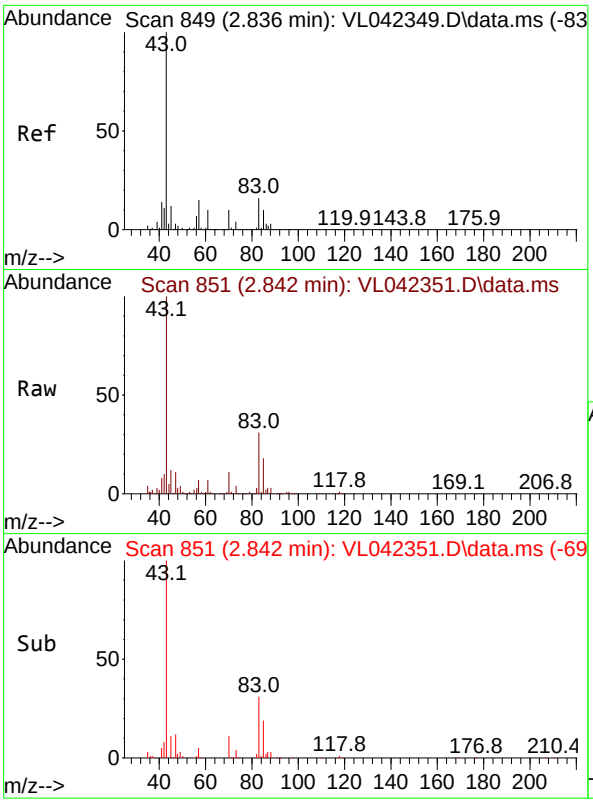


#24
1,1-Dichloroethane
Concen: 1.058 ppbv
RT: 2.409 min Scan# 717
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

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



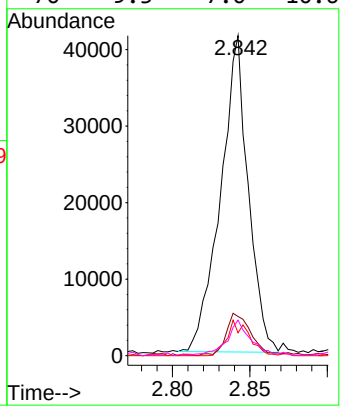


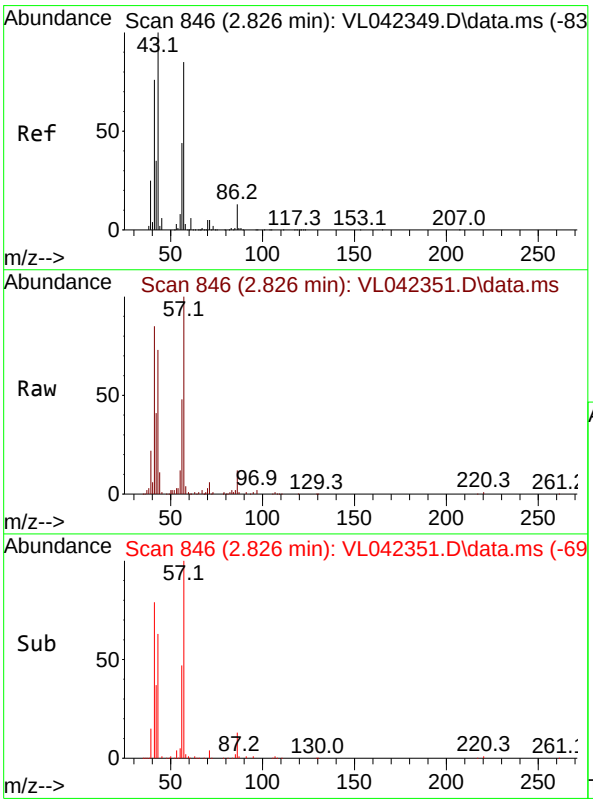
#25
Ethyl Acetate
Concen: 1.027 ppbv
RT: 2.842 min Scan# 8
Delta R.T. 0.007 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

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

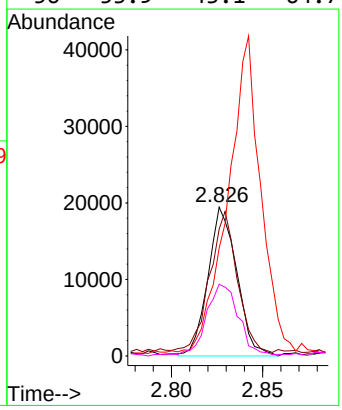


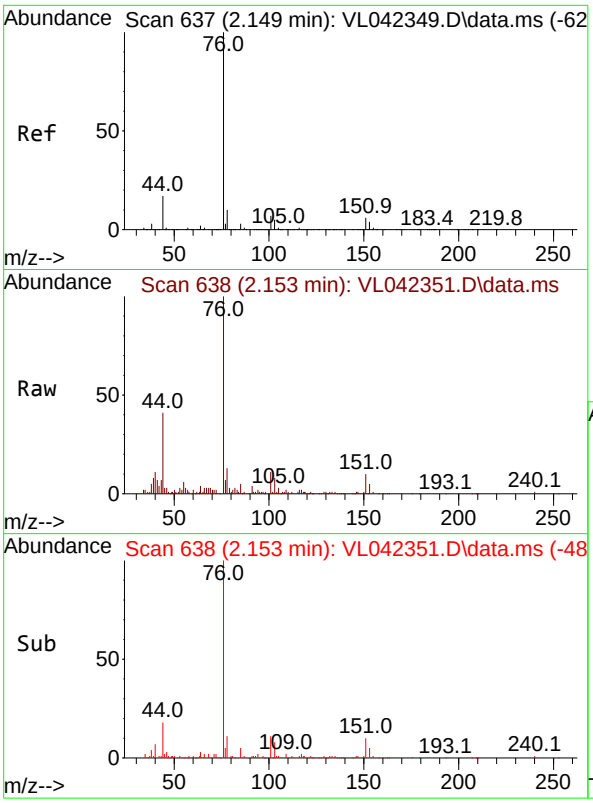


#26
Hexane
Concen: 1.053 ppbv
RT: 2.826 min Scan# 846
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

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



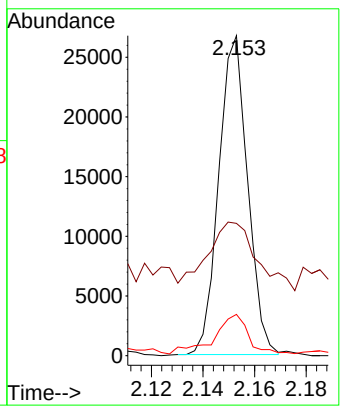


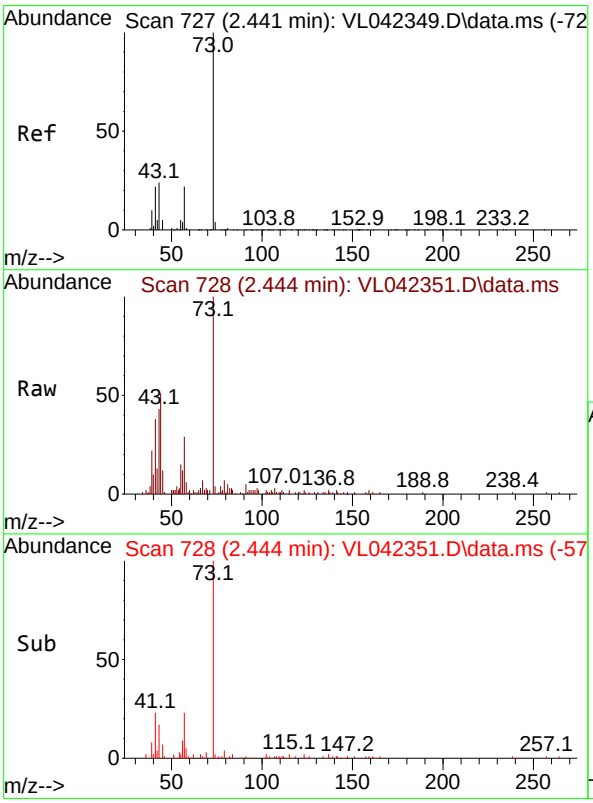
#27
Carbon Disulfide
Concen: 0.955 ppbv
RT: 2.153 min Scan# 6
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

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#

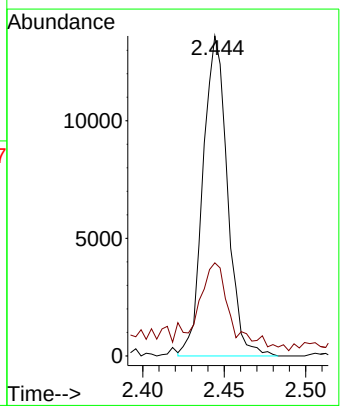


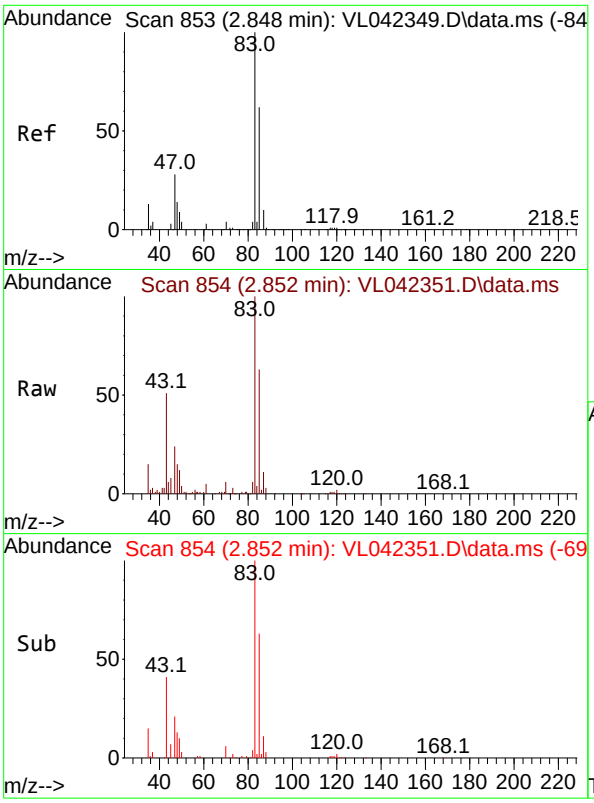


#28
Methyl tert-Butyl Ether
Concen: 1.066 ppbv
RT: 2.444 min Scan# 728
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 73 Resp: 14164

Ion	Ratio	Lower	Upper
73	100		
57	34.2	21.3	31.9#



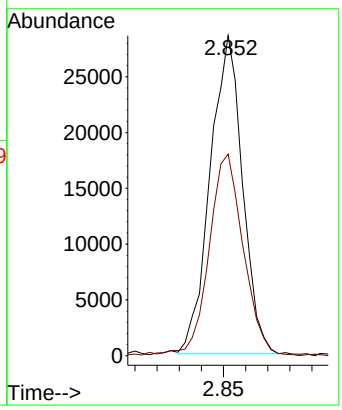


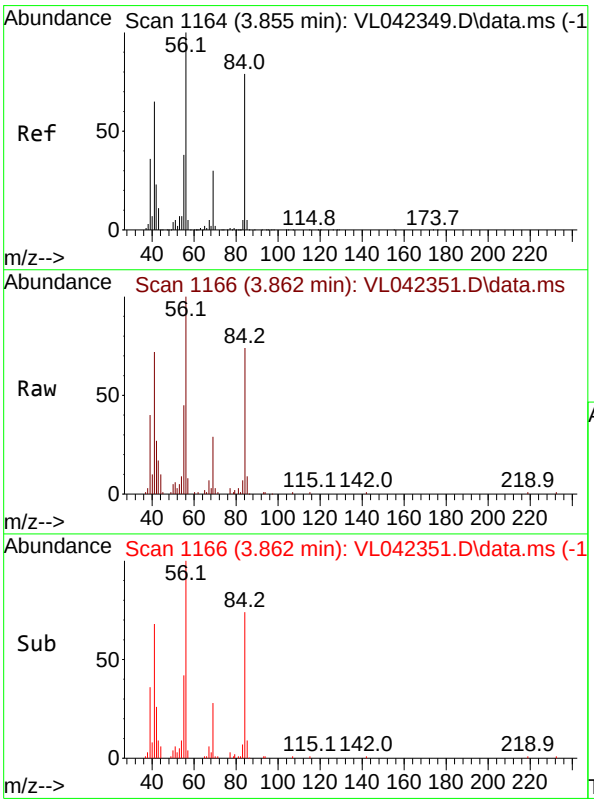
#29
Chloroform
Concen: 1.011 ppbv
RT: 2.852 min Scan# 8
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 83 Resp: 28973

Ion	Ratio	Lower	Upper
83	100		
85	62.6	50.0	75.0

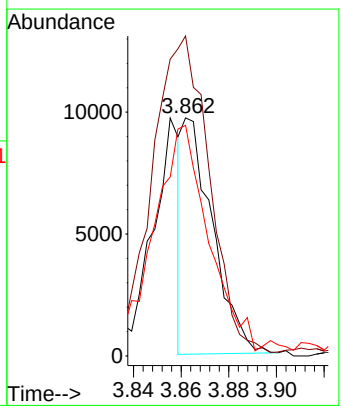


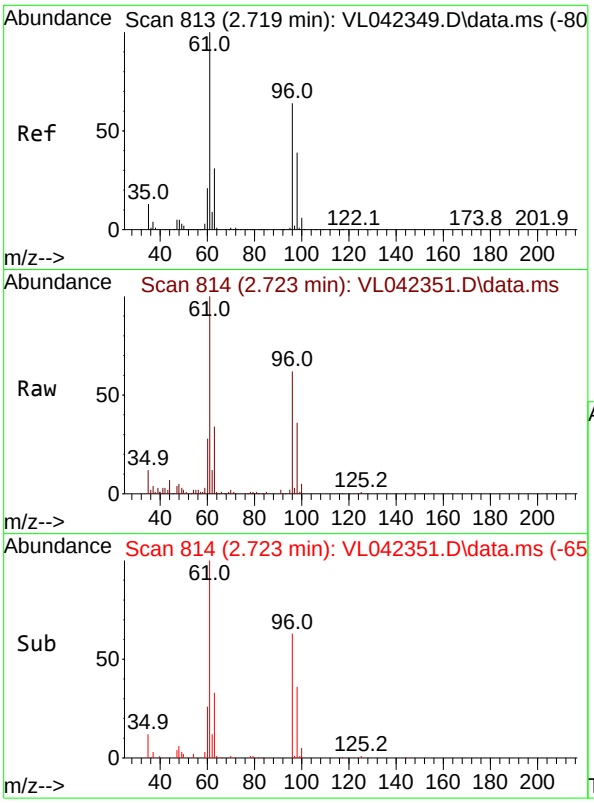


#30
Cyclohexane
Concen: 0.516 ppbv
RT: 3.862 min Scan# 1166
Delta R.T. 0.007 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

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#



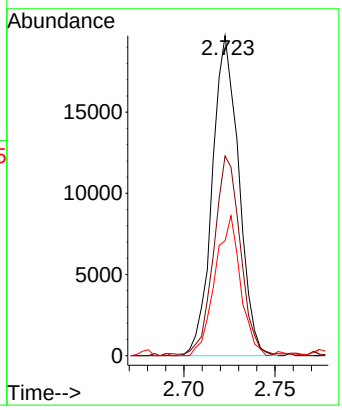


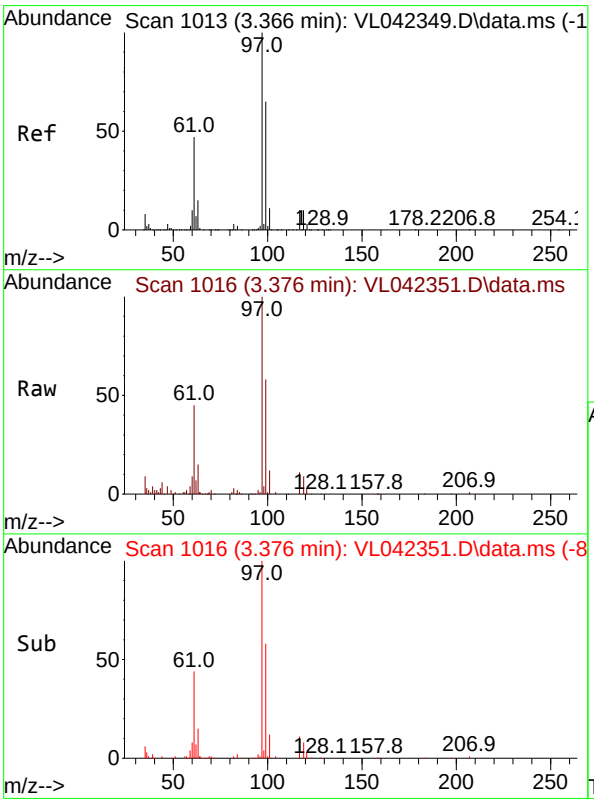
#31
cis-1,2-Dichloroethene
Concen: 1.032 ppbv
RT: 2.723 min Scan# 8
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

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

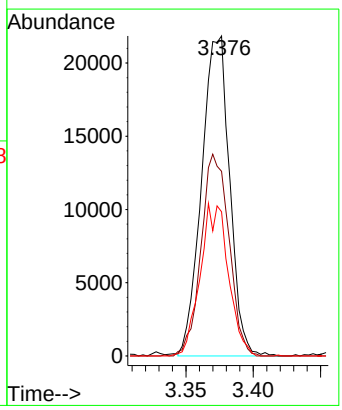


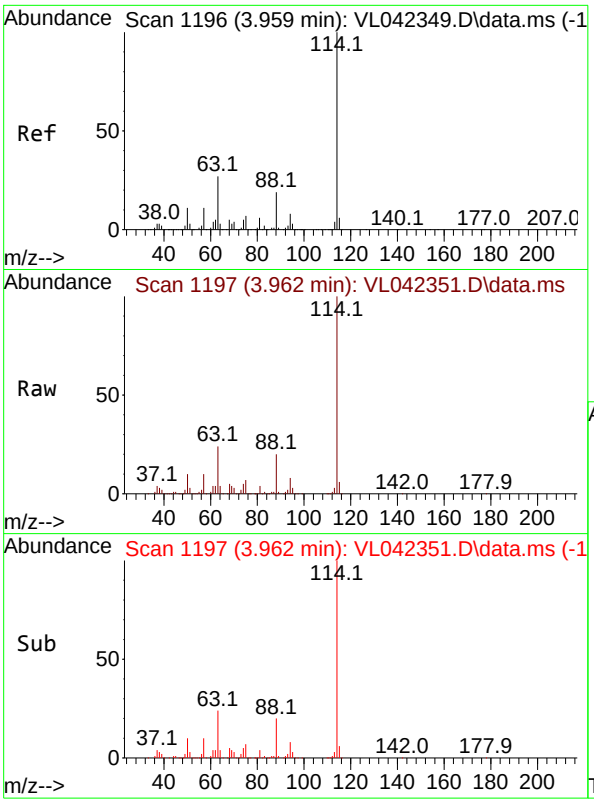


#32
1,1,1-Trichloroethane
Concen: 1.030 ppbv
RT: 3.376 min Scan# 1016
Delta R.T. 0.010 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

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



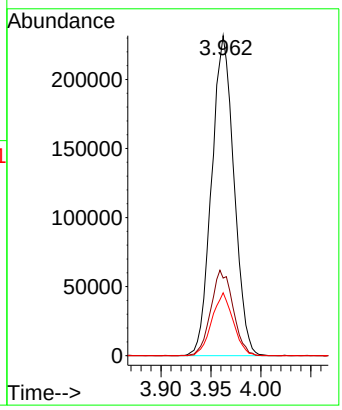


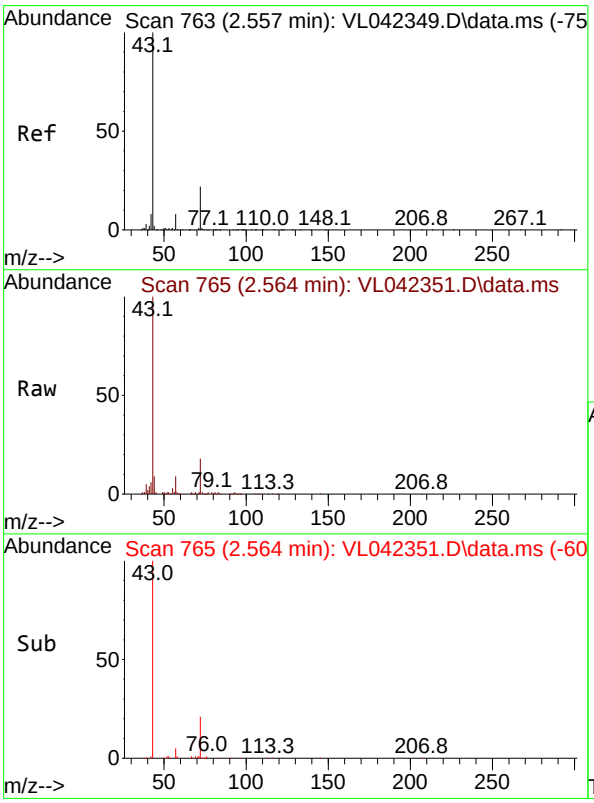
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.962 min Scan# 11
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

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

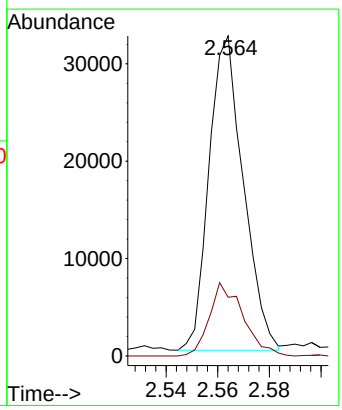


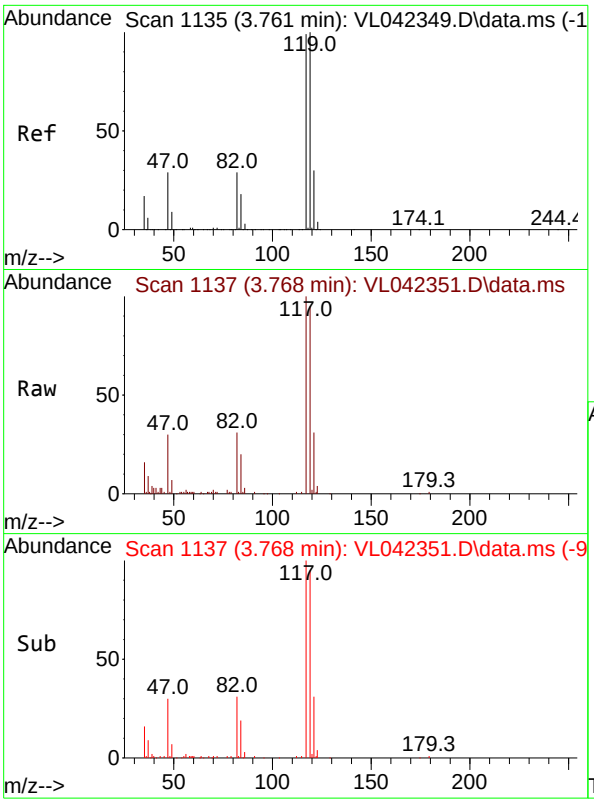


#34
2-Butanone
Concen: 1.045 ppbv
RT: 2.564 min Scan# 765
Delta R.T. 0.007 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 43 Resp: 29735

Ion	Ratio	Lower	Upper
43	100		
72	23.1	18.2	27.2



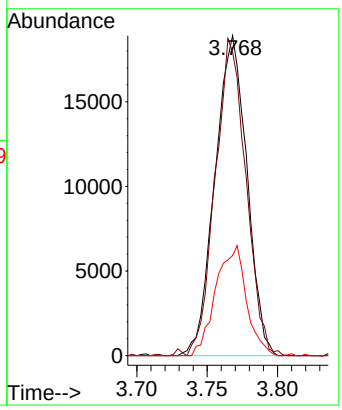


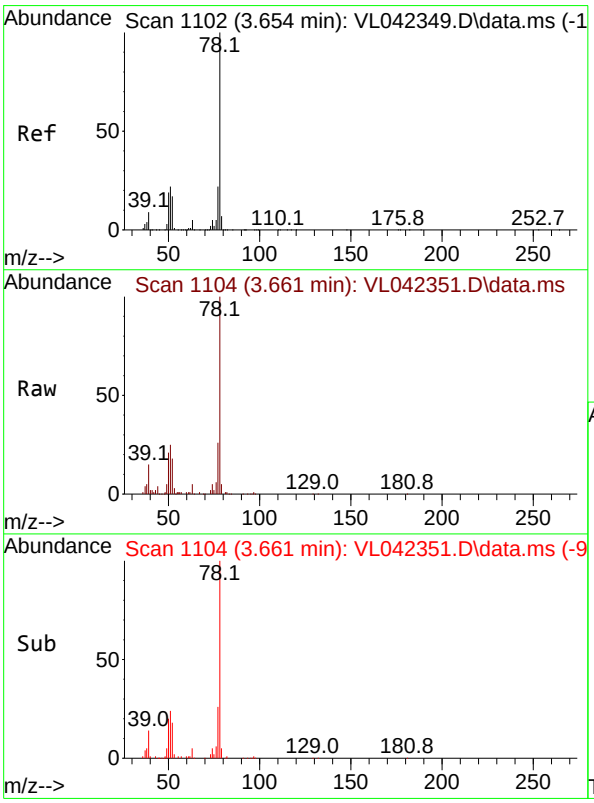
#35
Carbon Tetrachloride
Concen: 0.917 ppbv
RT: 3.768 min Scan# 1
Delta R.T. 0.007 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

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

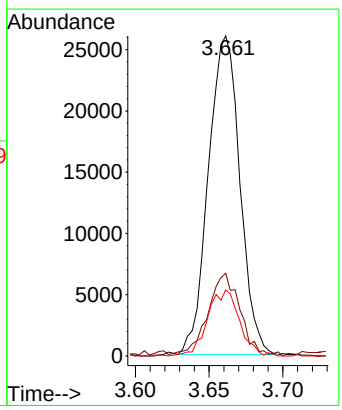


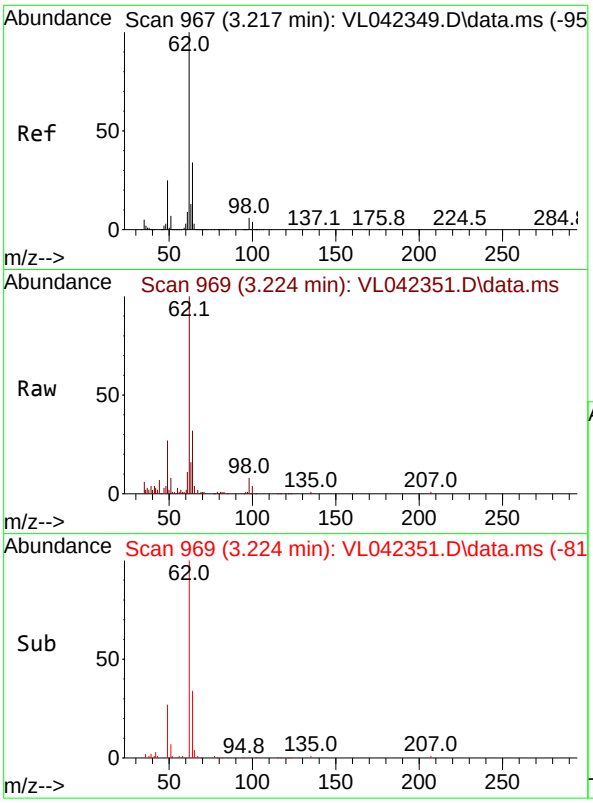


#36
Benzene
Concen: 0.997 ppbv
RT: 3.661 min Scan# 1104
Delta R.T. 0.007 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

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



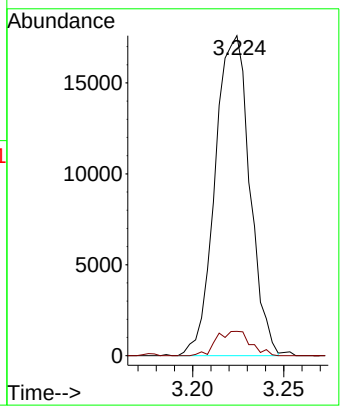


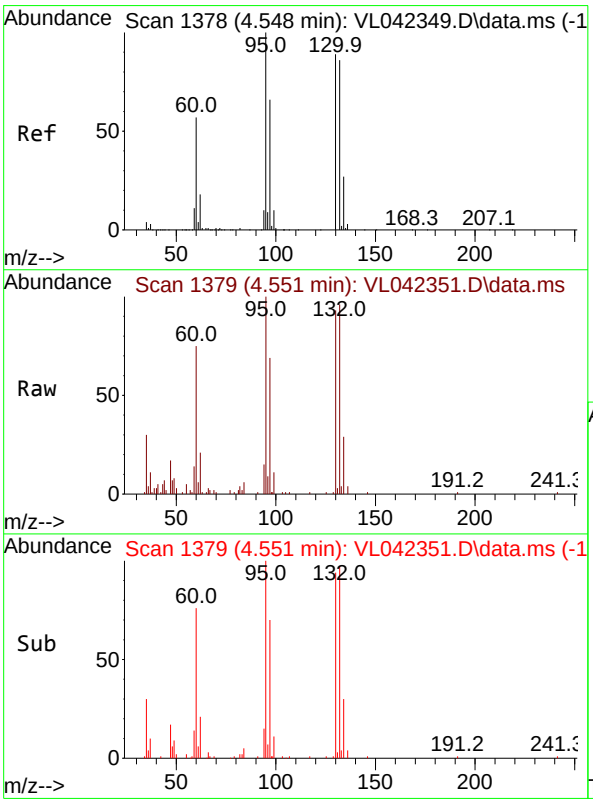
#37
1,2-Dichloroethane
Concen: 0.999 ppbv
RT: 3.224 min Scan# 9
Delta R.T. 0.007 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 62 Resp: 23284

Ion	Ratio	Lower	Upper
62	100		
98	7.5	5.1	7.7

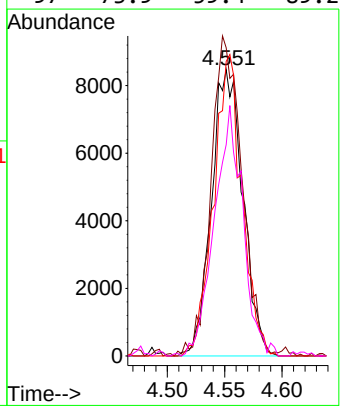


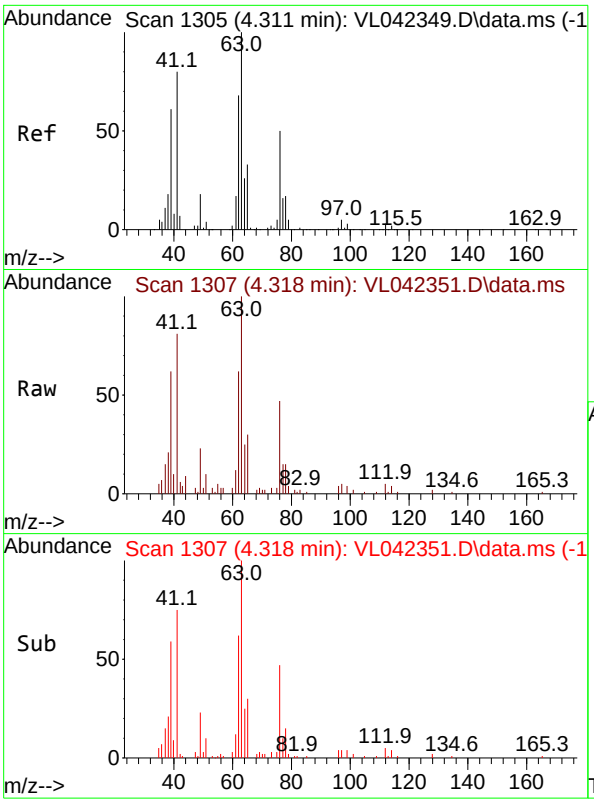


#38
Trichloroethene
Concen: 0.947 ppbv
RT: 4.551 min Scan# 1379
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

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



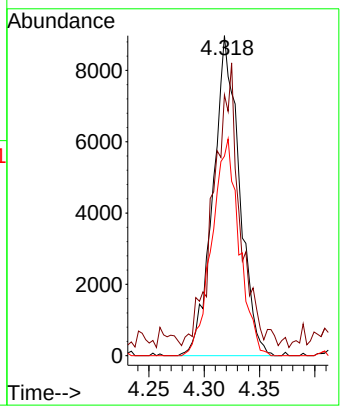


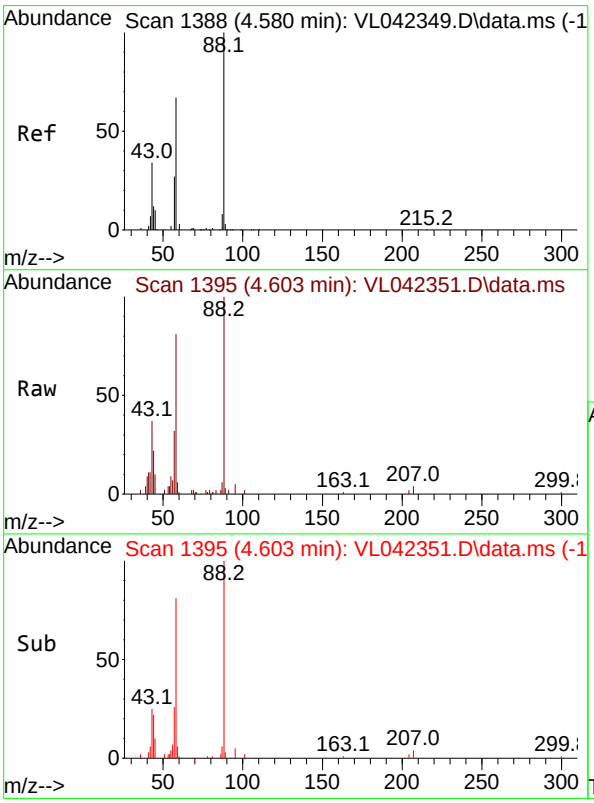
#39
1,2-Dichloropropane
Concen: 1.027 ppbv
RT: 4.318 min Scan# 1
Delta R.T. 0.007 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

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

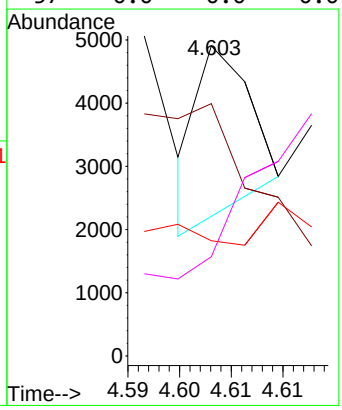


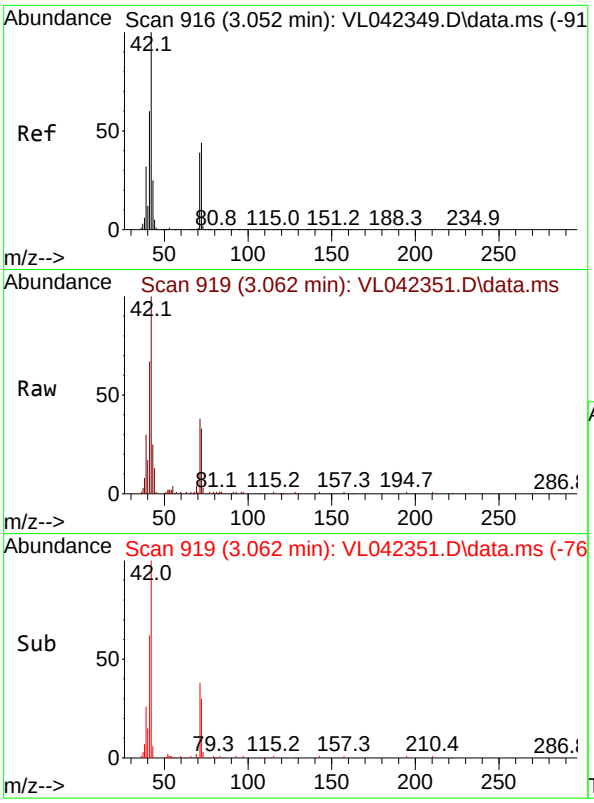


#40
1,4-Dioxane
Concen: 0.123 ppbv
RT: 4.603 min Scan# 1395
Delta R.T. 0.023 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

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



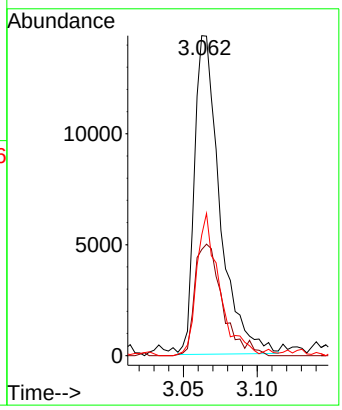


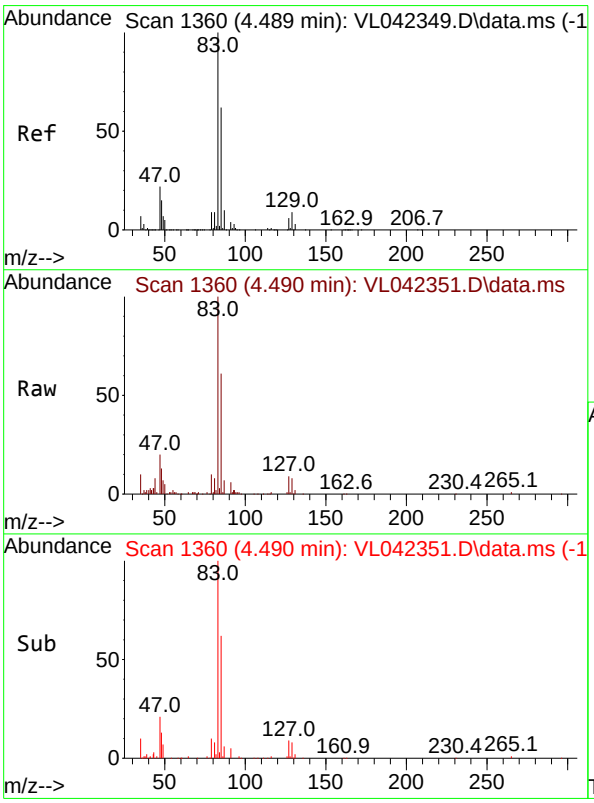
#41
Tetrahydrofuran
Concen: 1.049 ppbv
RT: 3.062 min Scan# 91
Delta R.T. 0.010 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

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

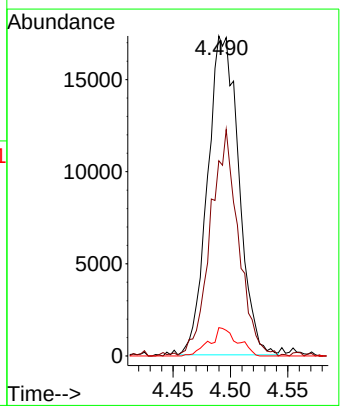


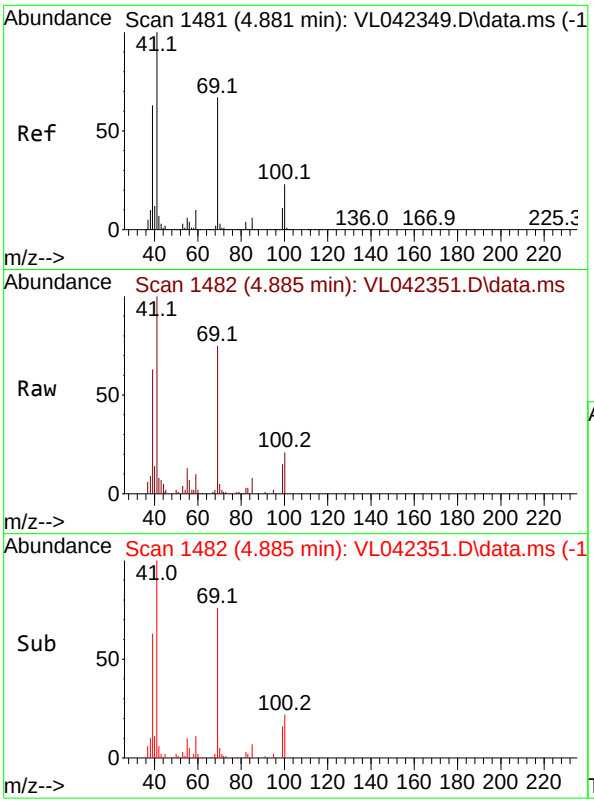


#42
Bromodichloromethane
Concen: 1.009 ppbv
RT: 4.490 min Scan# 1360
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

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#



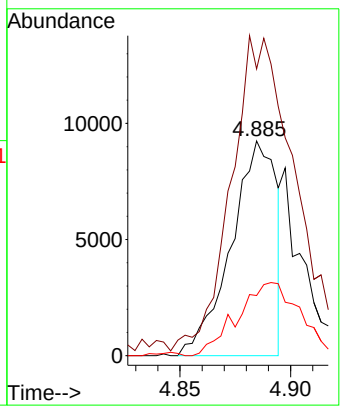


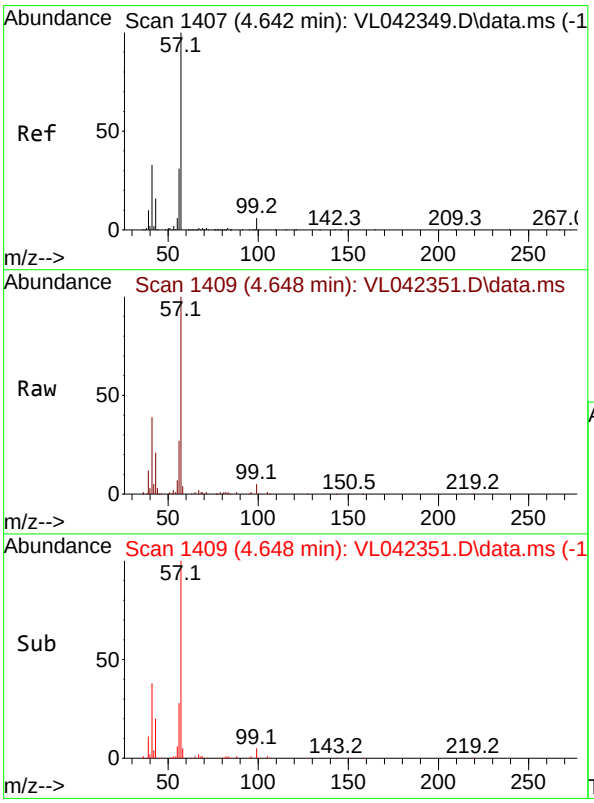
#43
Methyl Methacrylate
Concen: 0.751 ppbv
RT: 4.885 min Scan# 14
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

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#

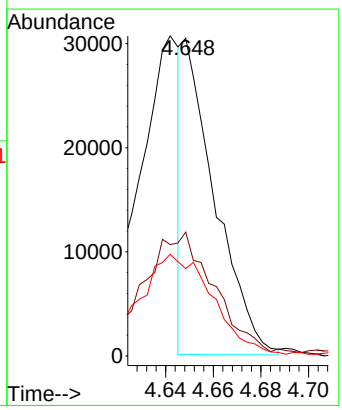


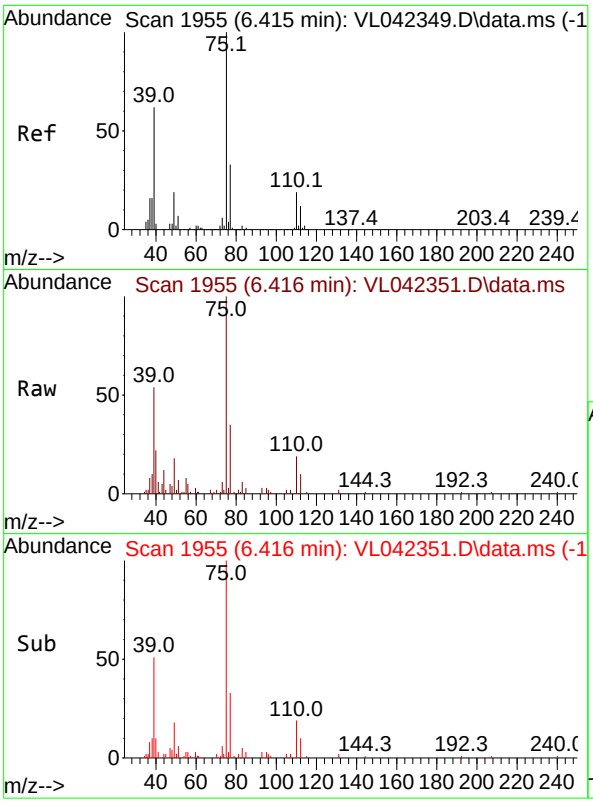


#44
2,2,4-Trimethylpentane
Concen: 0.427 ppbv
RT: 4.648 min Scan# 1409
Delta R.T. 0.007 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

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#



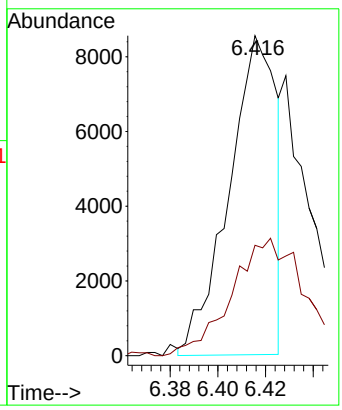


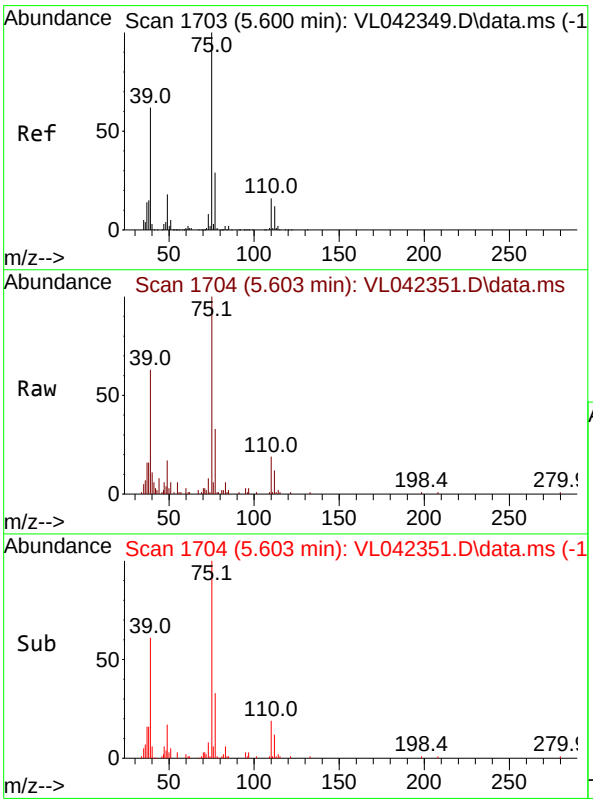
#45
t-1,3-Dichloropropene
Concen: 0.658 ppbv
RT: 6.416 min Scan# 1
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 75 Resp: 11763

Ion	Ratio	Lower	Upper
75	100		
77	34.5	27.0	40.6

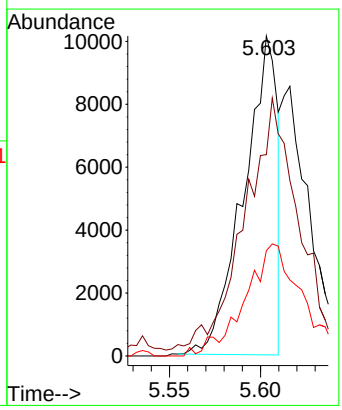


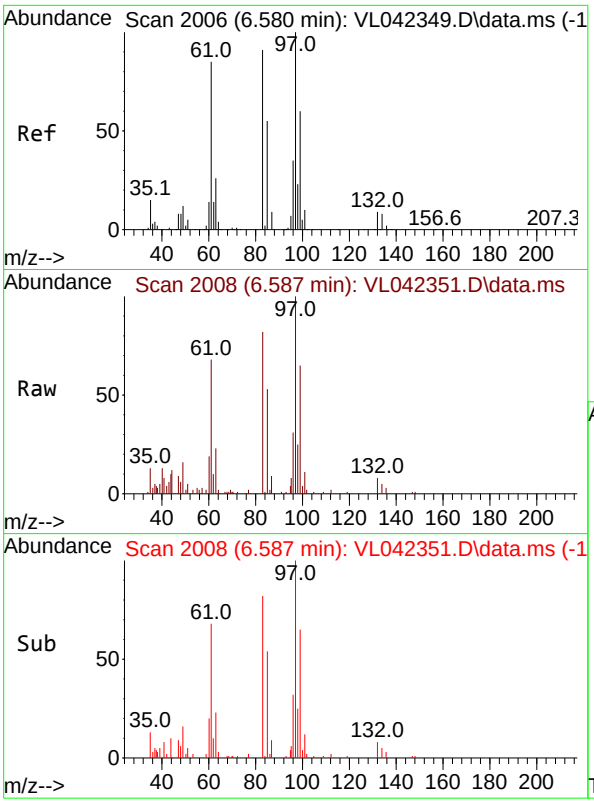


#46
cis-1,3-Dichloropropene
Concen: 0.596 ppbv
RT: 5.603 min Scan# 1704
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

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



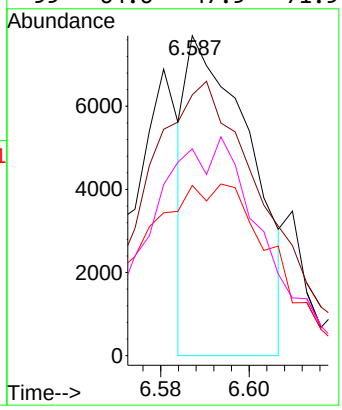


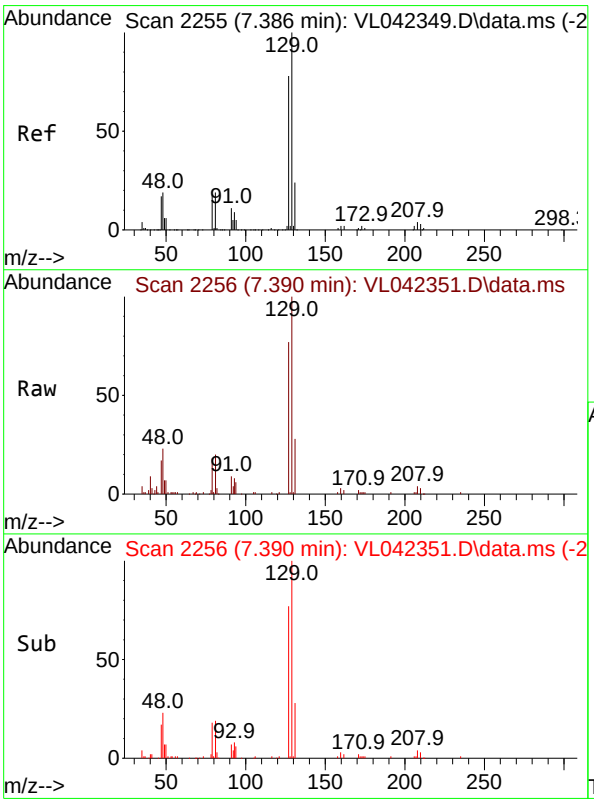
#47
1,1,2-Trichloroethane
Concen: 0.521 ppbv
RT: 6.587 min Scan# 2
Delta R.T. 0.007 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

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

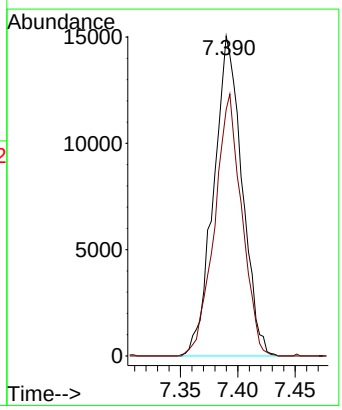


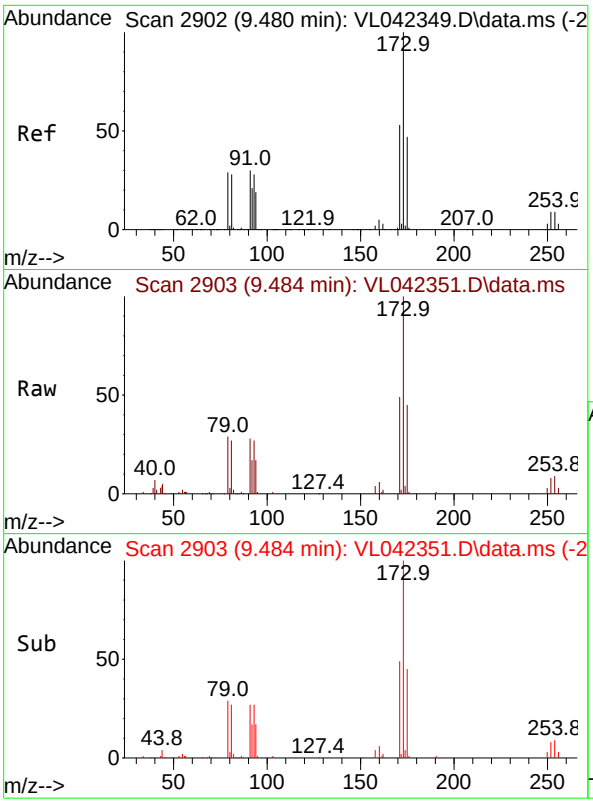


#48
Dibromochloromethane
Concen: 0.997 ppbv
RT: 7.390 min Scan# 2256
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion:129 Resp: 25948

Ion	Ratio	Lower	Upper
129	100		
127	78.4	39.1	117.3



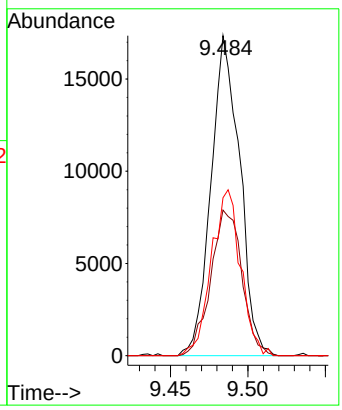


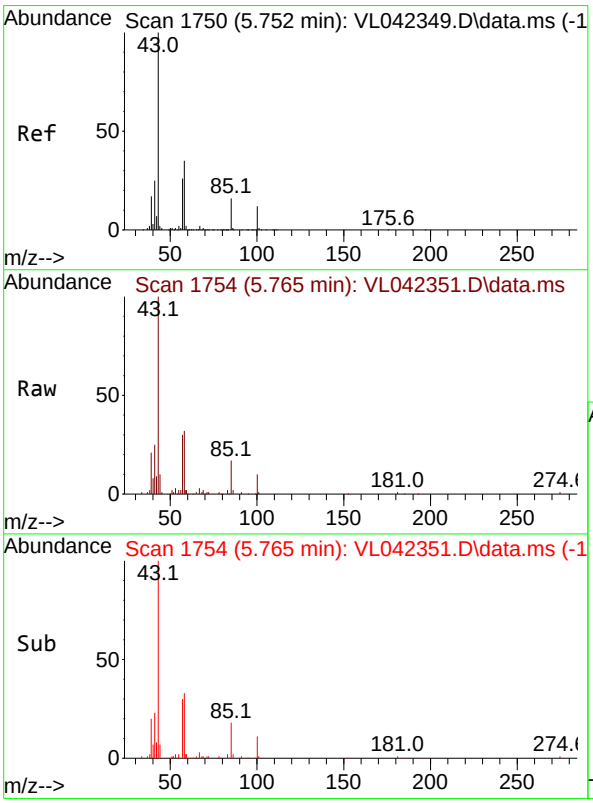
#49
Bromoform
Concen: 0.984 ppbv
RT: 9.484 min Scan# 2
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

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

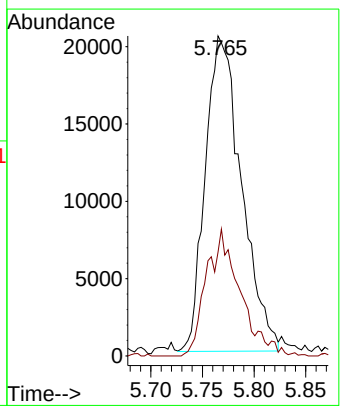


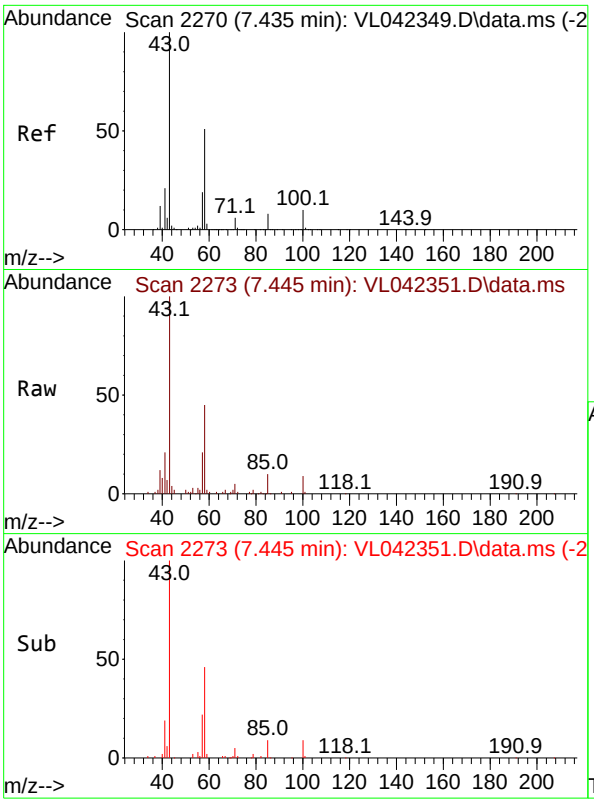


#50
4-Methyl-2-Pentanone
Concen: 1.049 ppbv
RT: 5.765 min Scan# 1754
Delta R.T. 0.013 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 43 Resp: 49725

Ion	Ratio	Lower	Upper
43	100		
58	37.7	28.6	43.0



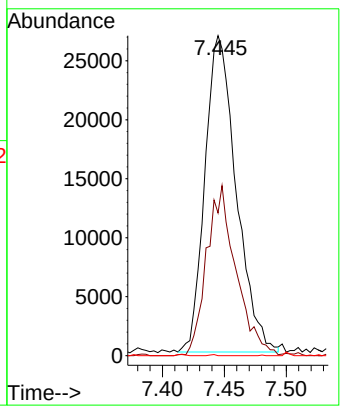


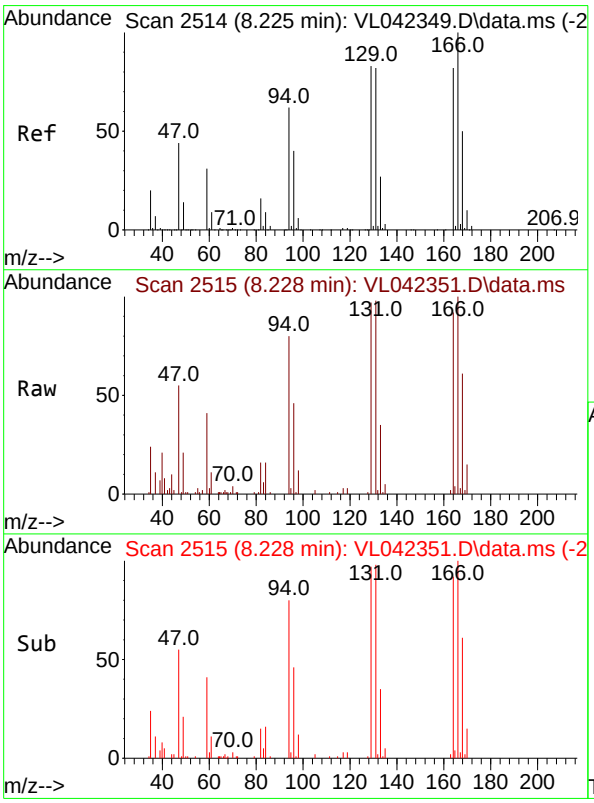
#51
2-Hexanone
Concen: 1.103 ppbv
RT: 7.445 min Scan# 2
Delta R.T. 0.010 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

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

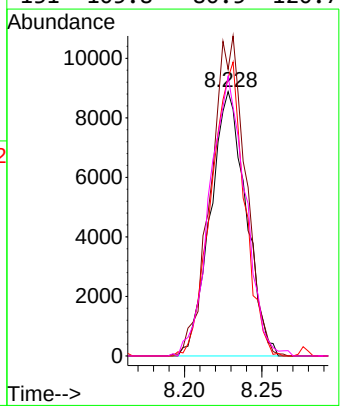


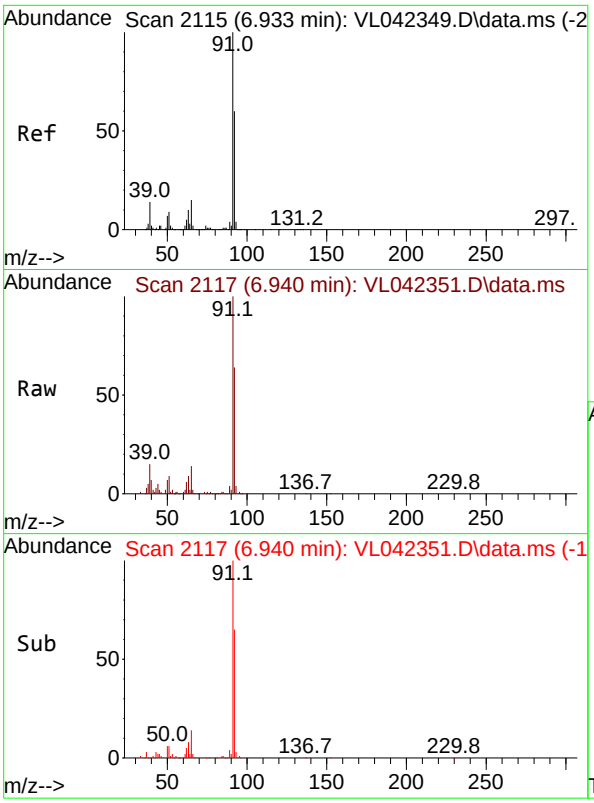


#52
Tetrachloroethene
Concen: 0.943 ppbv
RT: 8.228 min Scan# 2515
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

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



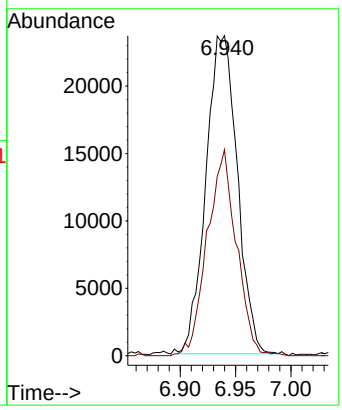


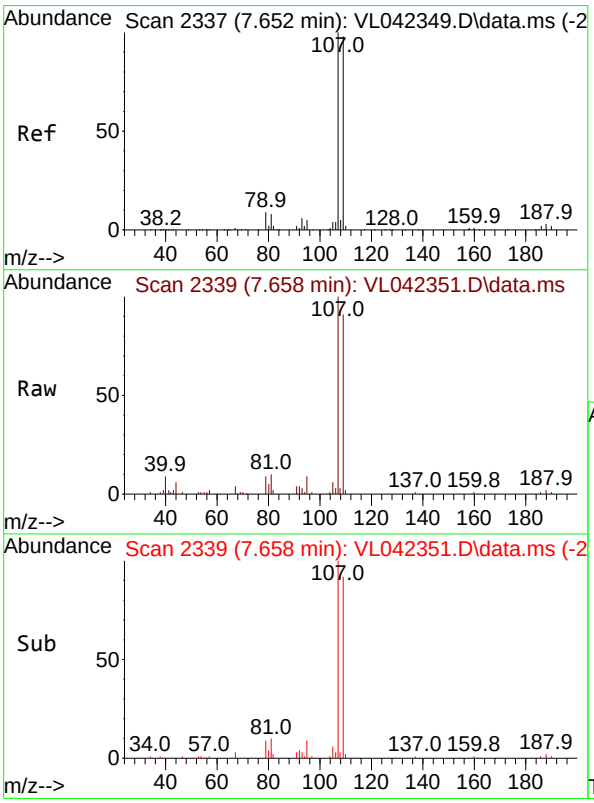
#53
Toluene
Concen: 1.001 ppbv
RT: 6.940 min Scan# 21
Delta R.T. 0.007 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 91 Resp: 46611

Ion	Ratio	Lower	Upper
91	100		
92	60.4	48.2	72.4

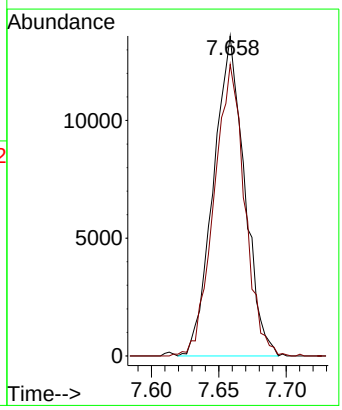


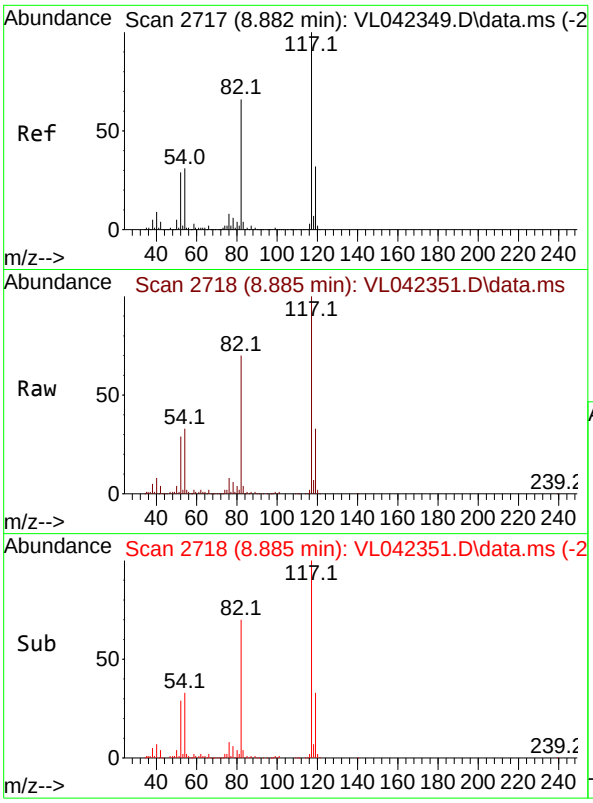


#54
1,2-Dibromoethane
Concen: 1.036 ppbv
RT: 7.658 min Scan# 2339
Delta R.T. 0.007 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion:107 Resp: 21780

Ion	Ratio	Lower	Upper
107	100		
109	90.7	78.2	117.4



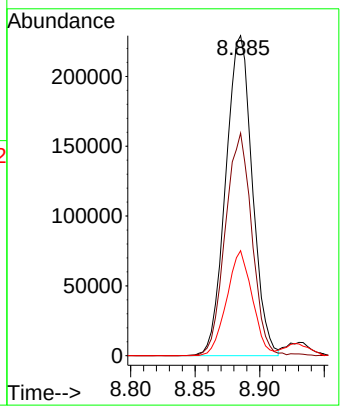


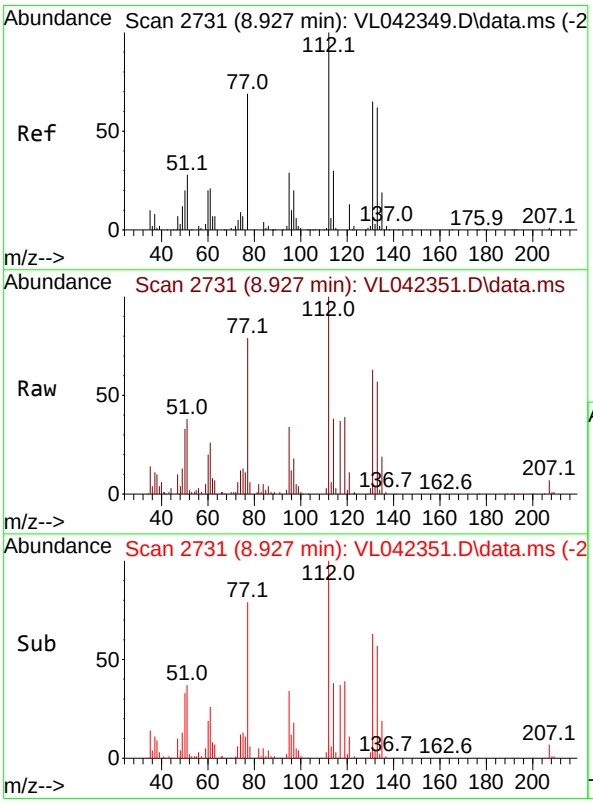
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.885 min Scan# 2
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

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

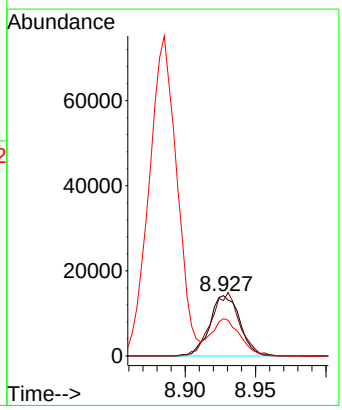


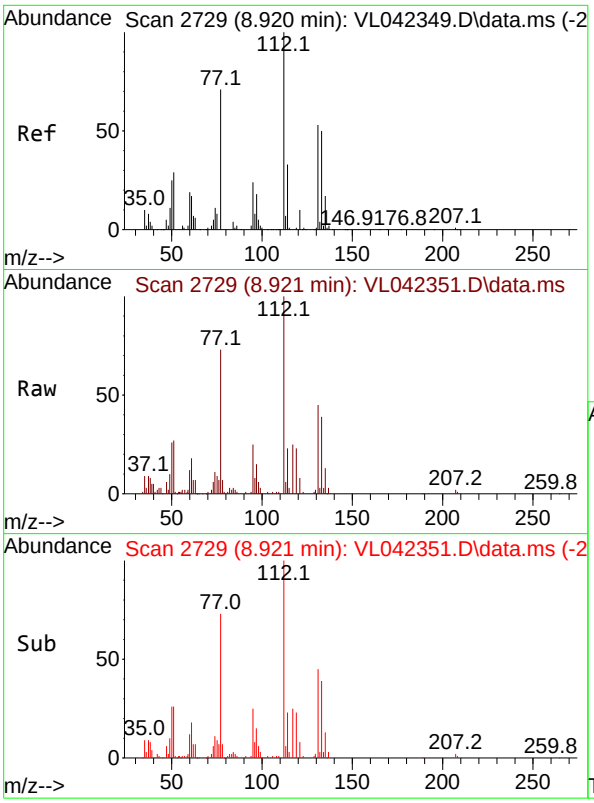


#56
1,1,1,2-Tetrachloroethane
Concen: 1.057 ppbv
RT: 8.927 min Scan# 2731
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

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



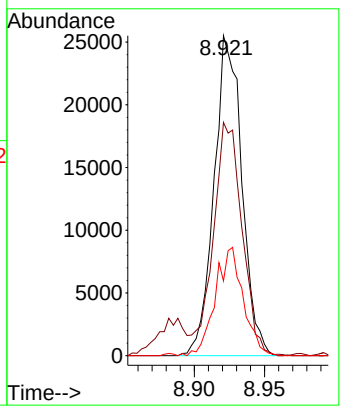


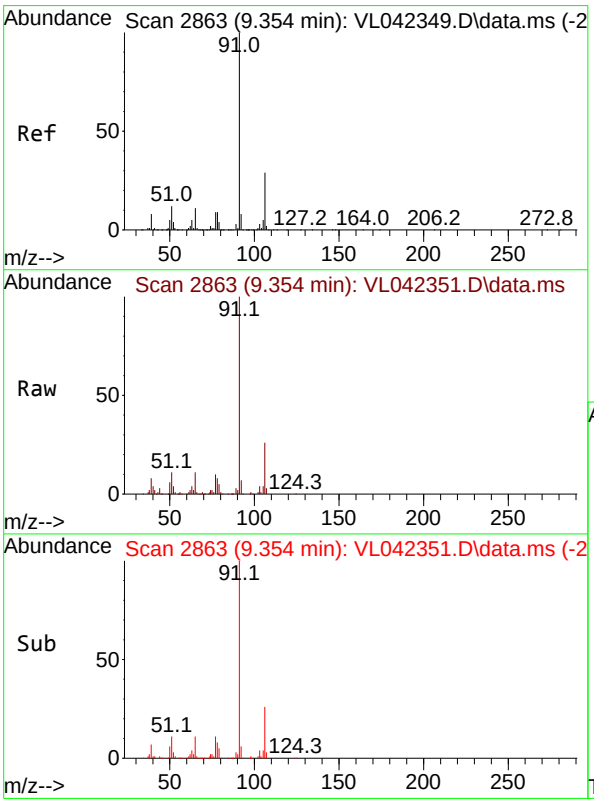
#57
Chlorobenzene
Concen: 1.026 ppbv
RT: 8.921 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

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#

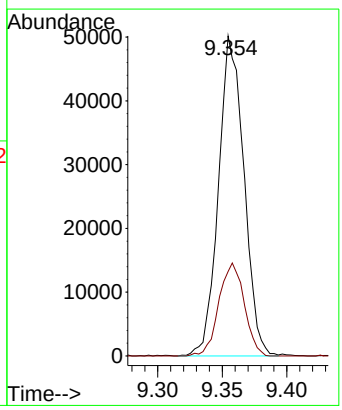


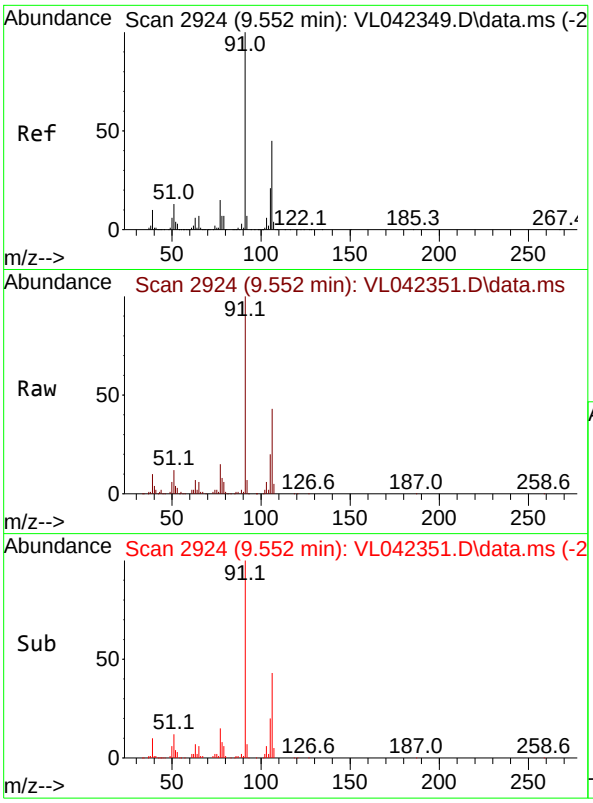


#58
Ethyl Benzene
Concen: 1.054 ppbv
RT: 9.354 min Scan# 2863
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 91 Resp: 68703

Ion	Ratio	Lower	Upper
91	100		
106	26.5	23.0	34.4



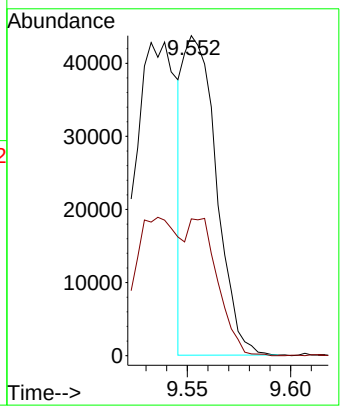


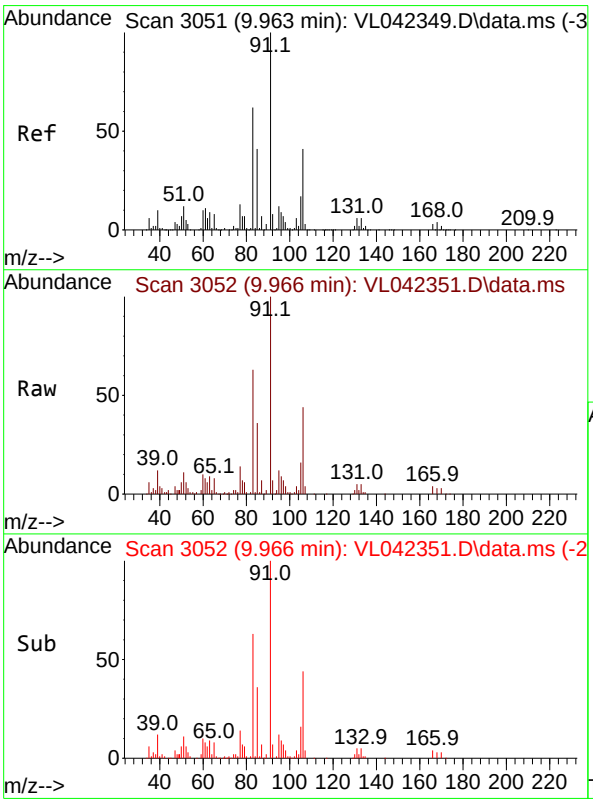
#59
m/p-Xylene
Concen: 0.926 ppbv
RT: 9.552 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 91 Resp: 48794

Ion	Ratio	Lower	Upper
91	100		
106	0.0	35.4	53.2#

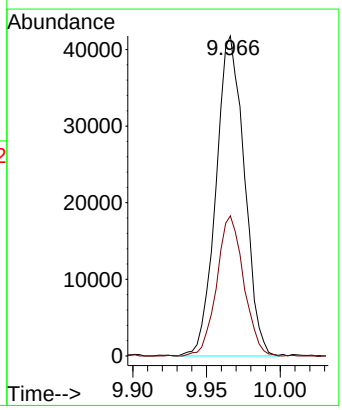


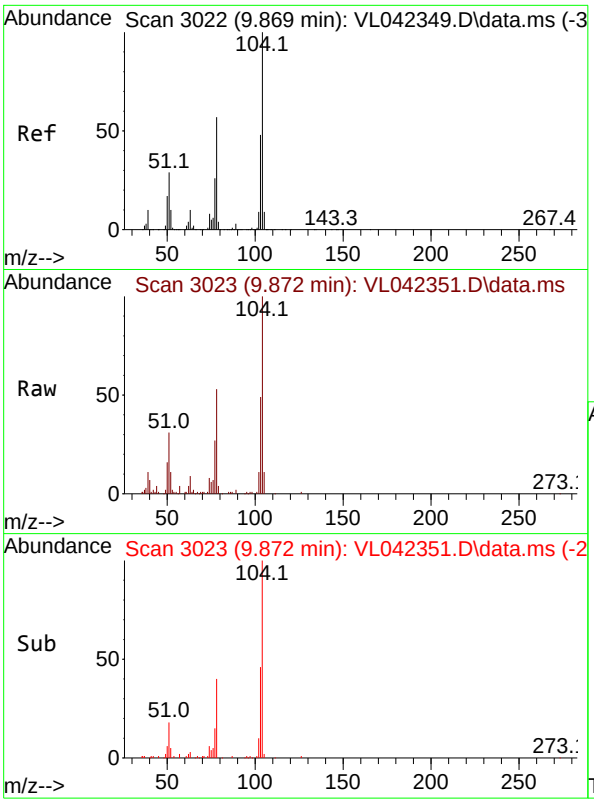


#60
o-Xylene
Concen: 1.056 ppbv
RT: 9.966 min Scan# 3052
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 91 Resp: 55831

Ion	Ratio	Lower	Upper
91	100		
106	41.6	21.1	63.4



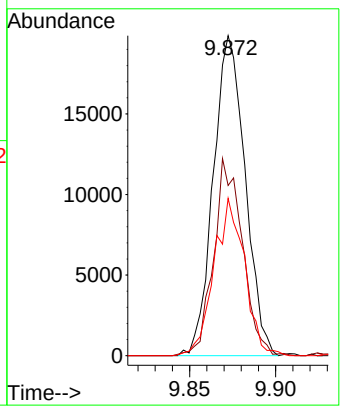


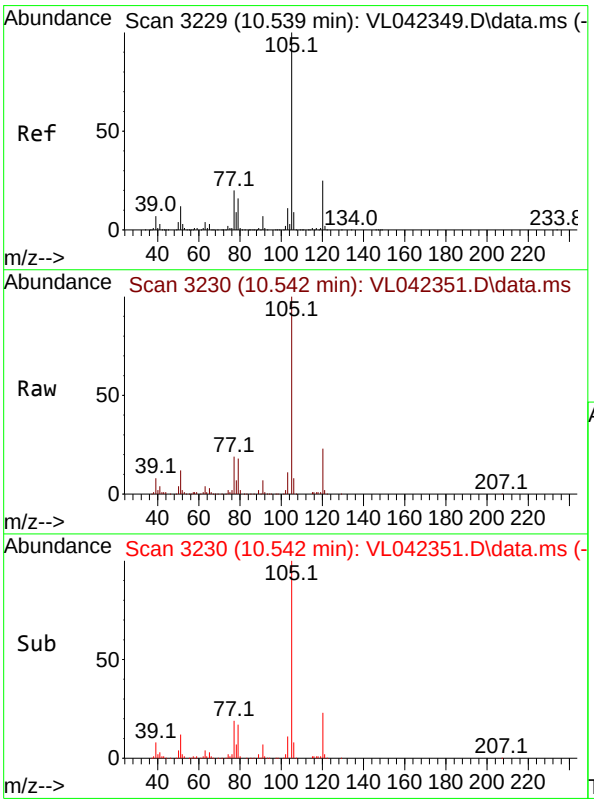
#61
Styrene
Concen: 1.012 ppbv
RT: 9.872 min Scan# 3
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

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

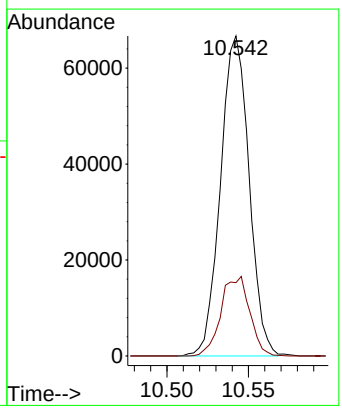


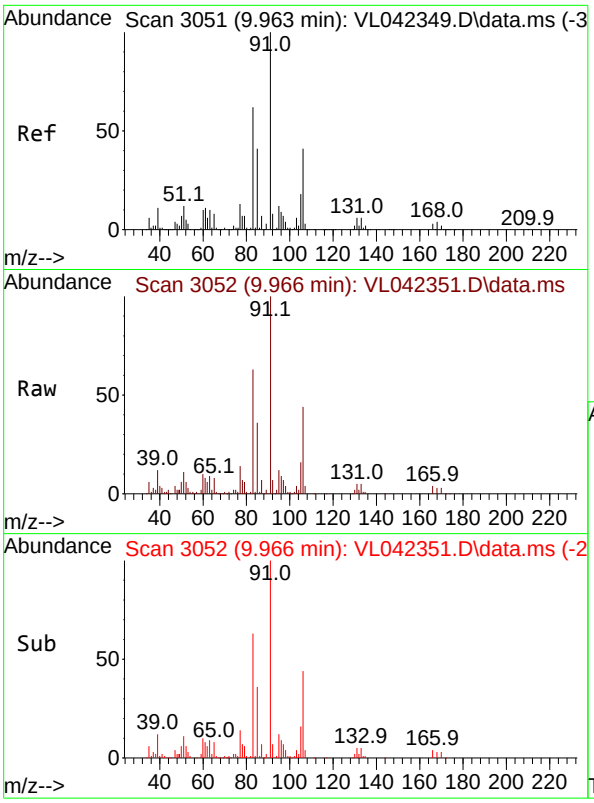


#62
Isopropylbenzene
Concen: 1.047 ppbv
RT: 10.542 min Scan# 3230
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion:105 Resp: 81286

Ion	Ratio	Lower	Upper
105	100		
120	25.0	19.8	29.8



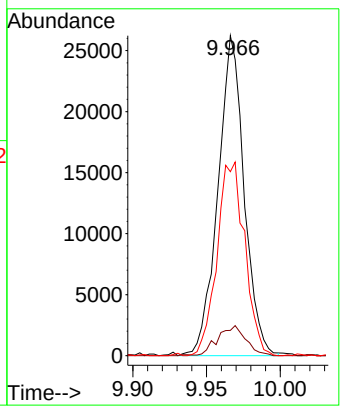


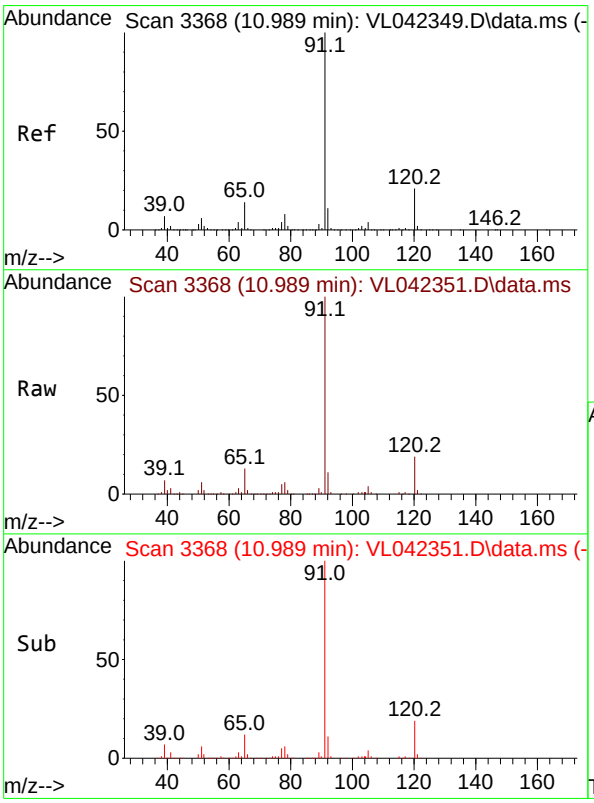
#63
1,1,2,2-Tetrachloroethane
Concen: 0.943 ppbv
RT: 9.966 min Scan# 3
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

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

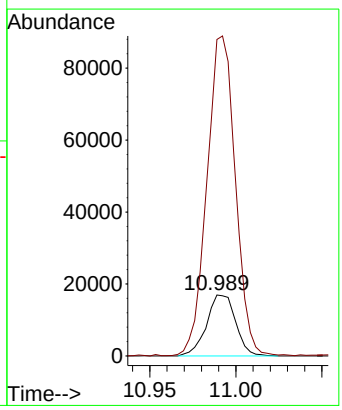


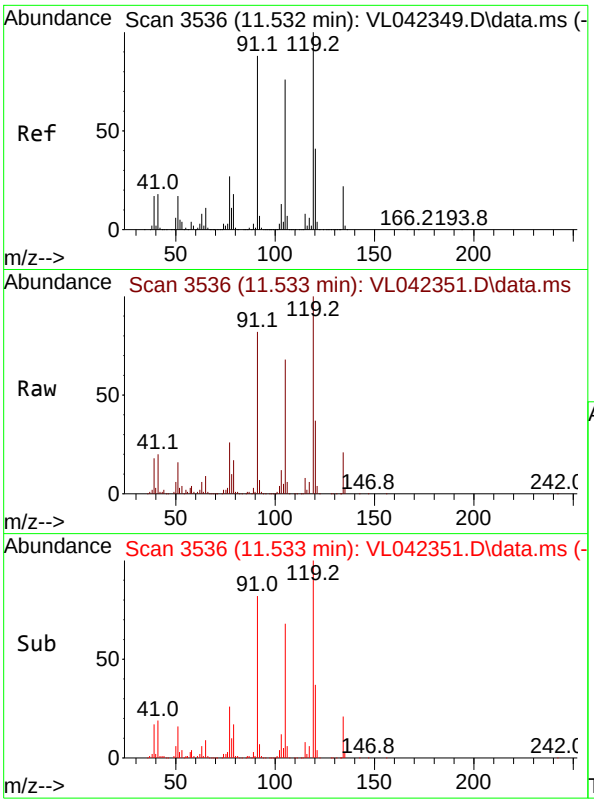


#64
n-propylbenzene
Concen: 1.019 ppbv
RT: 10.989 min Scan# 3368
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion:120 Resp: 19898

Ion	Ratio	Lower	Upper
120	100		
91	517.6	392.4	588.6



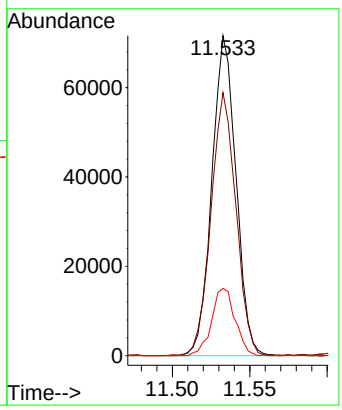


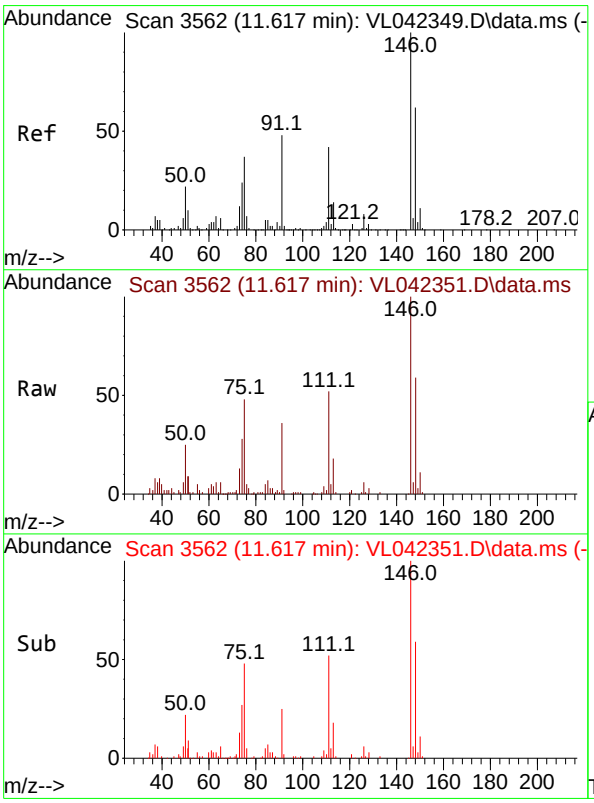
#65
tert-Butylbenzene
Concen: 1.087 ppbv
RT: 11.533 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

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

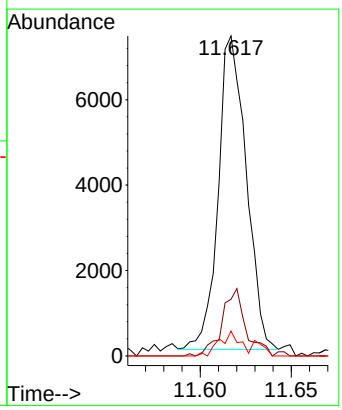


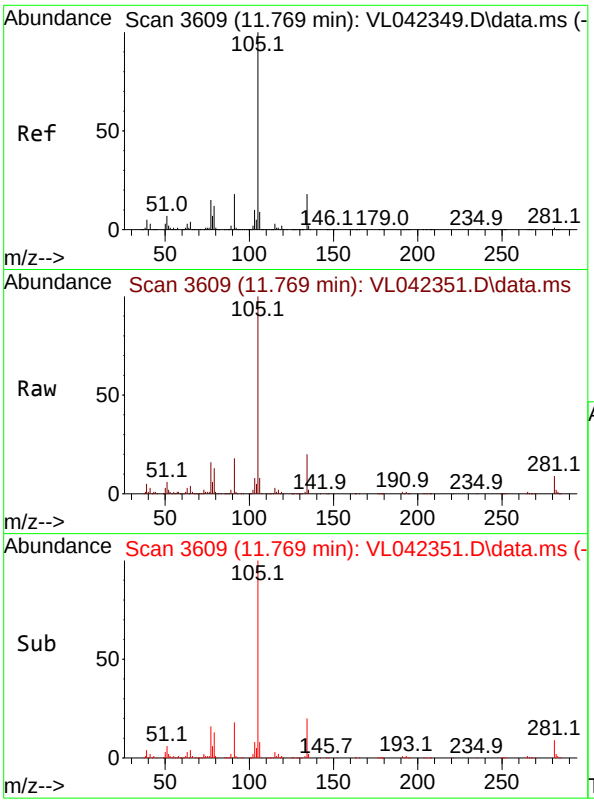


#66
Benzyl Chloride
Concen: 1.003 ppbv
RT: 11.617 min Scan# 3562
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

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#



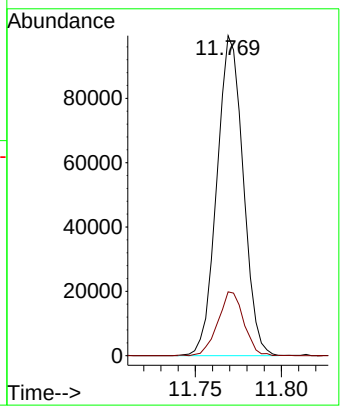


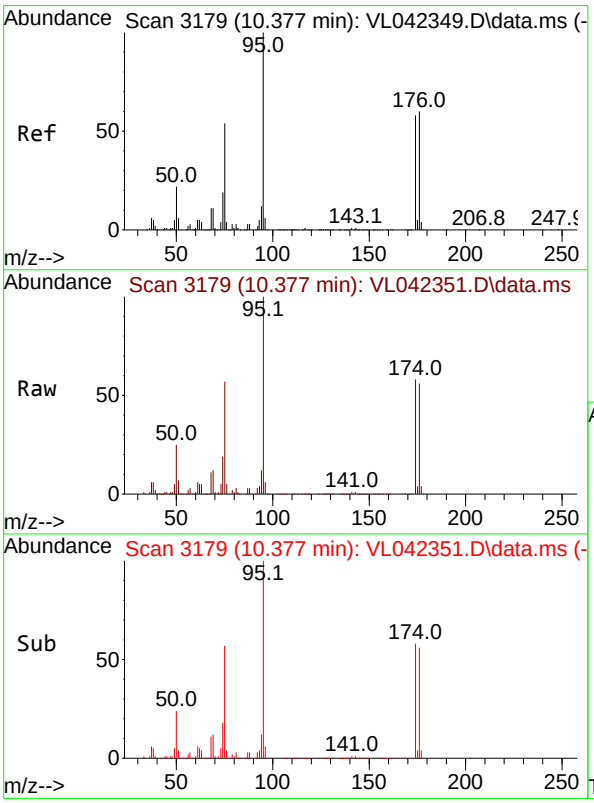
#67
sec-Butylbenzene
Concen: 1.067 ppbv
RT: 11.769 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion:105 Resp: 105919

Ion	Ratio	Lower	Upper
105	100		
134	19.6	14.6	21.8

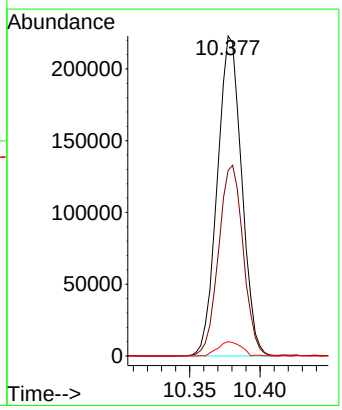


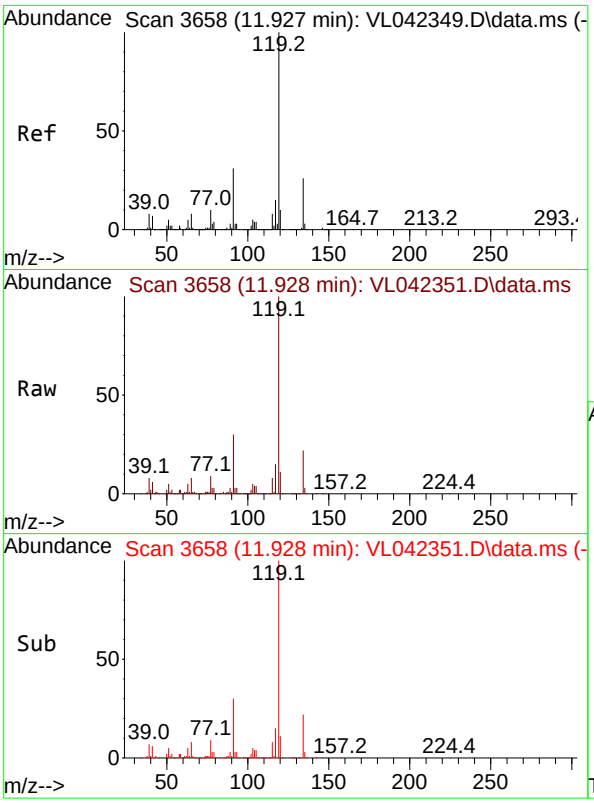


#68
1-Bromo-4-Fluorobenzene
Concen: 9.950 ppbv
RT: 10.377 min Scan# 3179
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

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



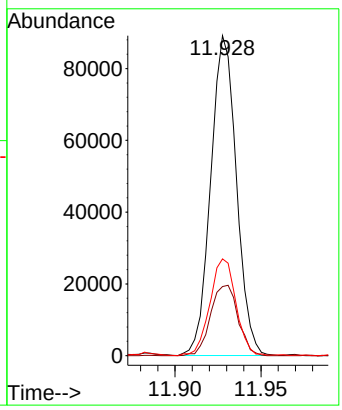


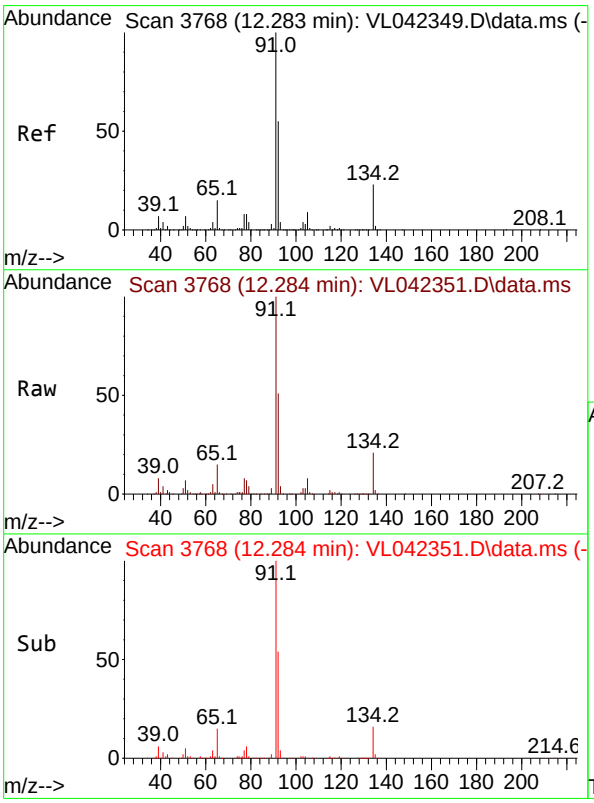
#69
p-Isopropyltoluene
Concen: 1.075 ppbv
RT: 11.928 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

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

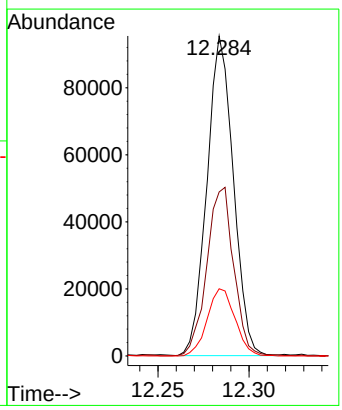


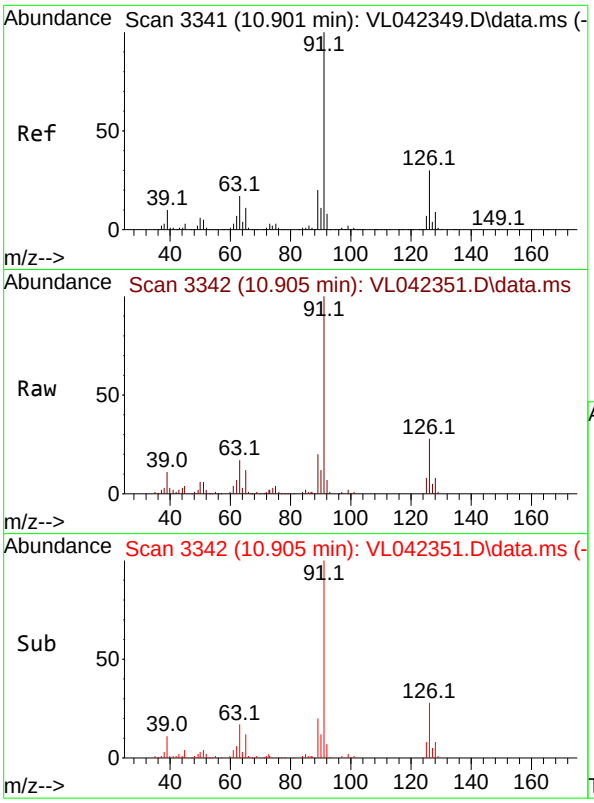


#70
n-Butylbenzene
Concen: 1.072 ppbv
RT: 12.284 min Scan# 3768
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

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



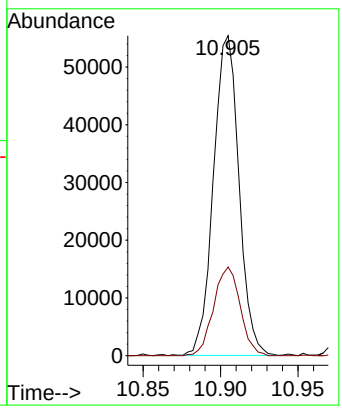


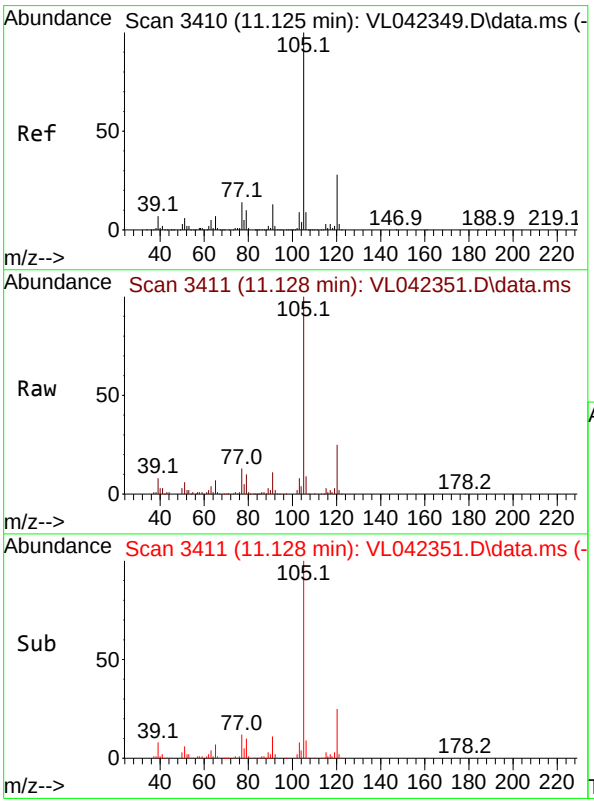
#71
2-Chlorotoluene
Concen: 1.040 ppbv
RT: 10.905 min Scan# 3
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 91 Resp: 63321

Ion	Ratio	Lower	Upper
91	100		
126	28.9	11.4	45.4

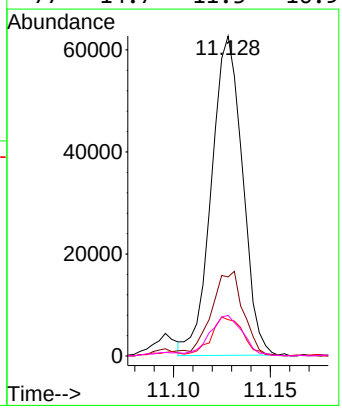


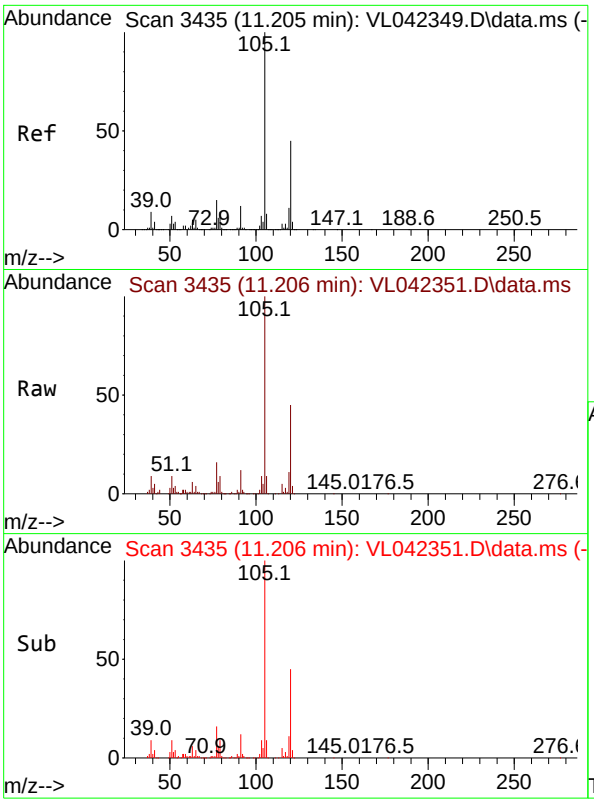


#72
4-Ethyltoluene
Concen: 1.078 ppbv
RT: 11.128 min Scan# 3411
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

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



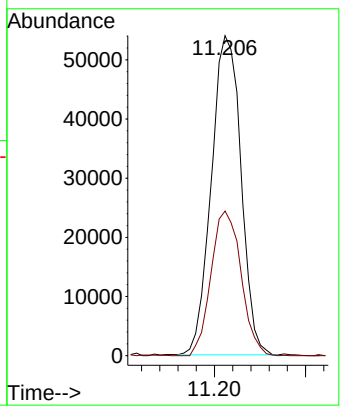


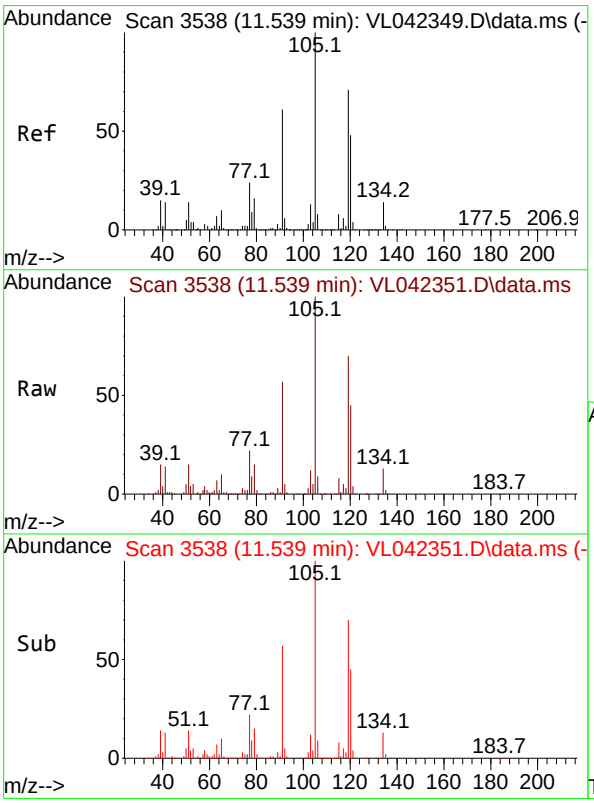
#73
1,3,5-Trimethylbenzene
Concen: 1.067 ppbv
RT: 11.206 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion:105 Resp: 60927

Ion	Ratio	Lower	Upper
105	100		
120	45.3	35.6	53.4

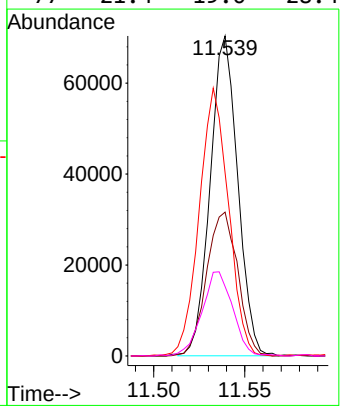


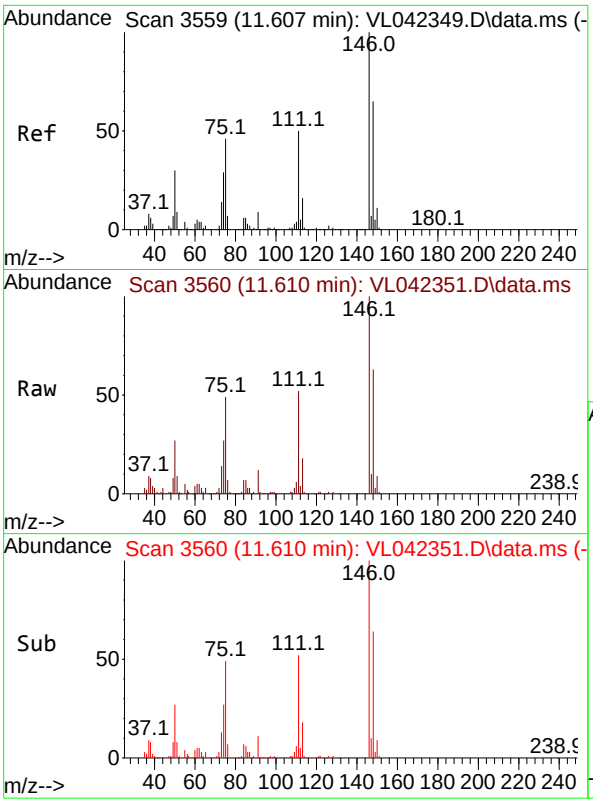


#74
1,2,4-Trimethylbenzene
Concen: 1.108 ppbv
RT: 11.539 min Scan# 3538
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

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



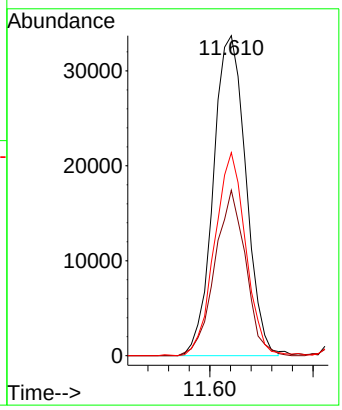


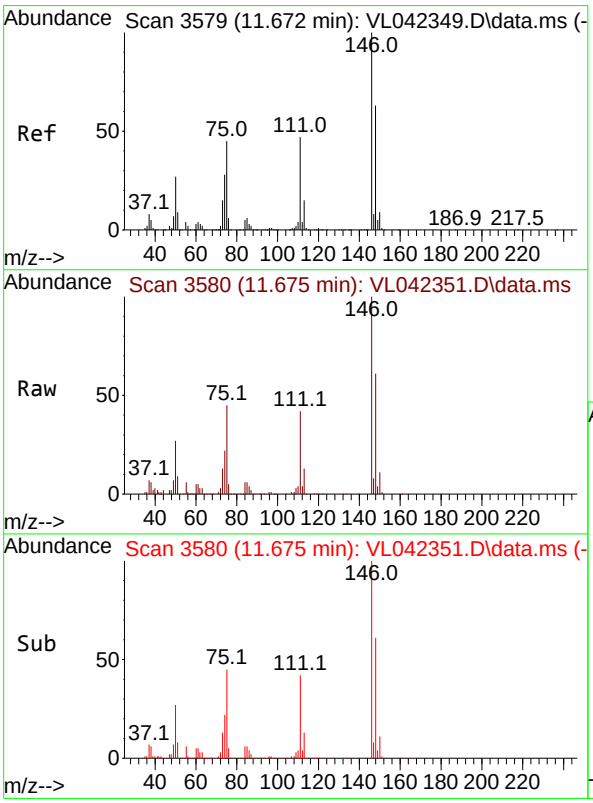
#75
1,3-Dichlorobenzene
Concen: 1.064 ppbv
RT: 11.610 min Scan# 3
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

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

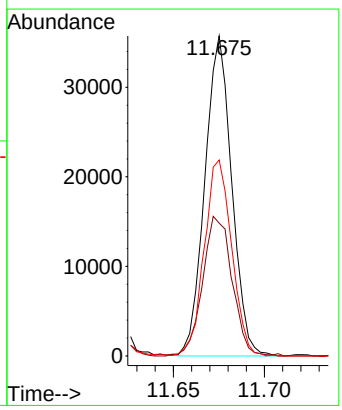


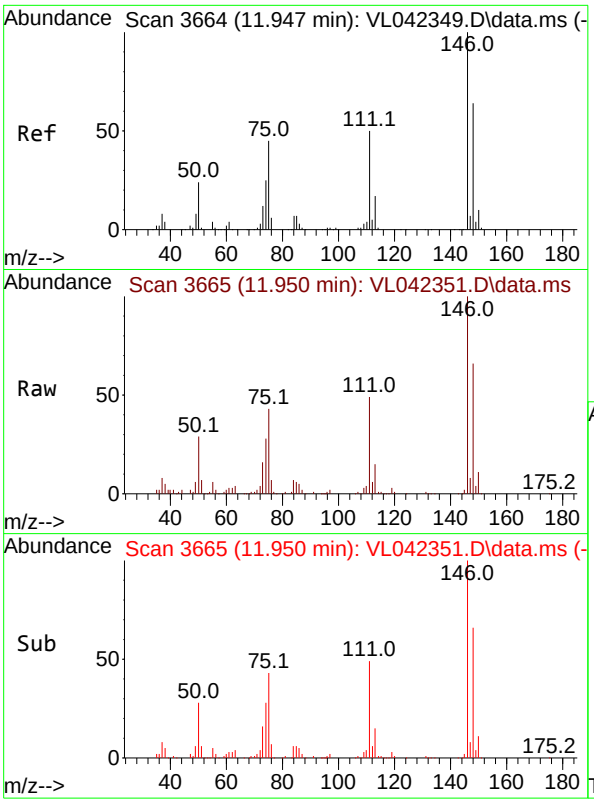


#76
1,4-Dichlorobenzene
Concen: 1.053 ppbv
RT: 11.675 min Scan# 3580
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

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



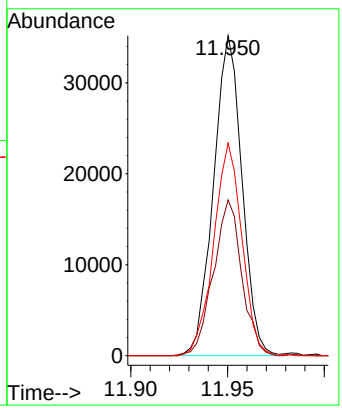


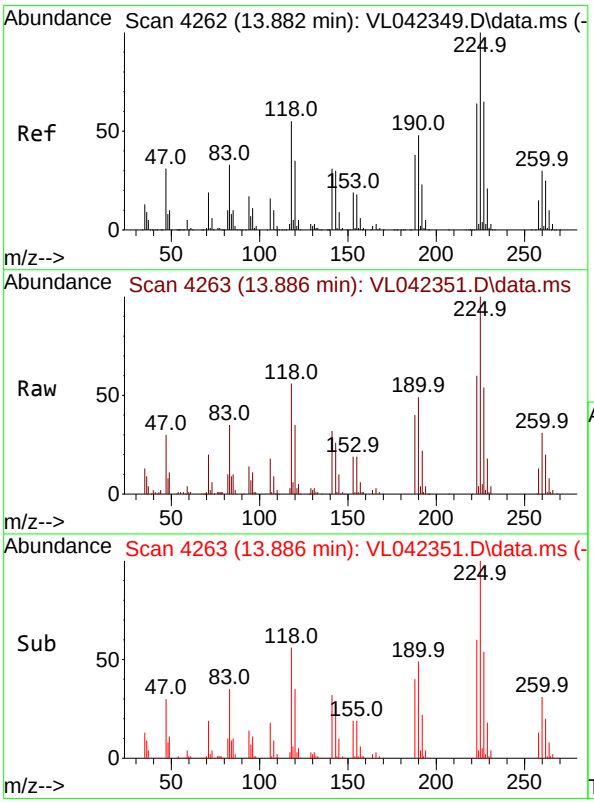
#77
1,2-Dichlorobenzene
Concen: 1.068 ppbv
RT: 11.950 min Scan# 3
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

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

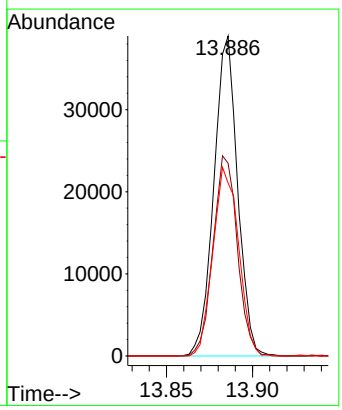


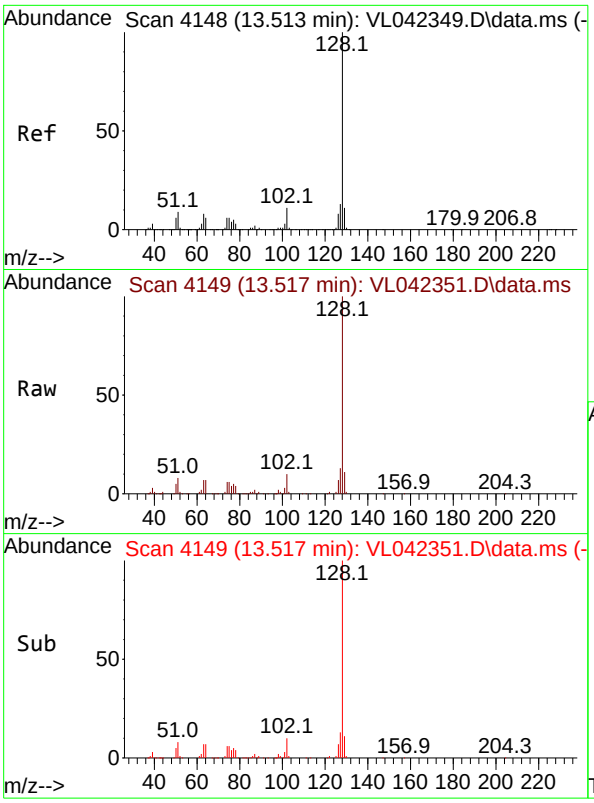


#78
Hexachloro-1,3-Butadiene
Concen: 1.098 ppbv
RT: 13.886 min Scan# 4263
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

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



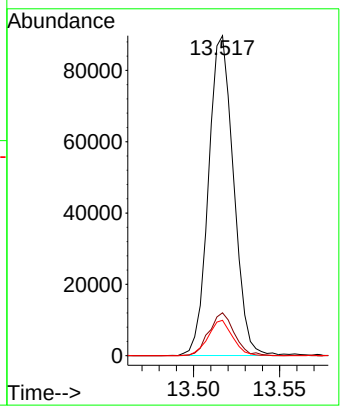


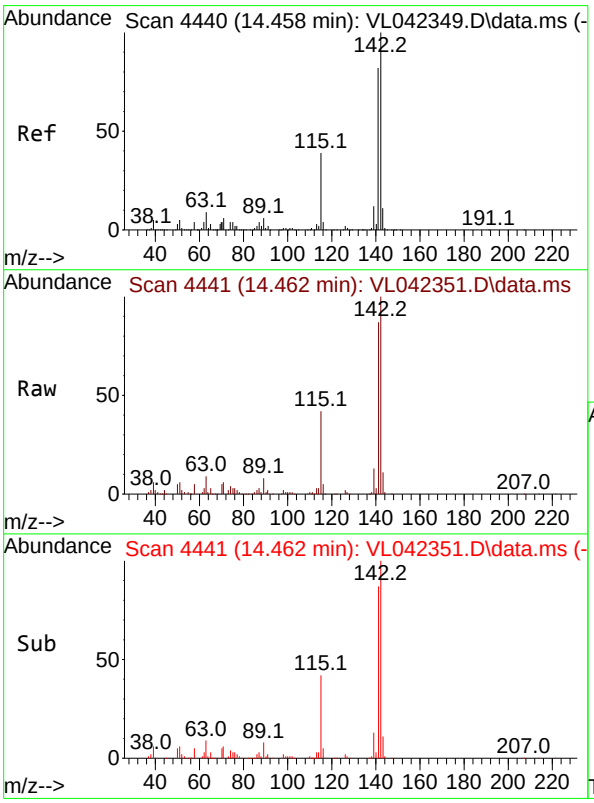
#79
Naphthalene
Concen: 1.138 ppbv
RT: 13.517 min Scan# 41
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

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

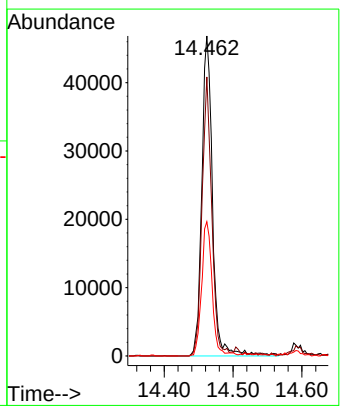


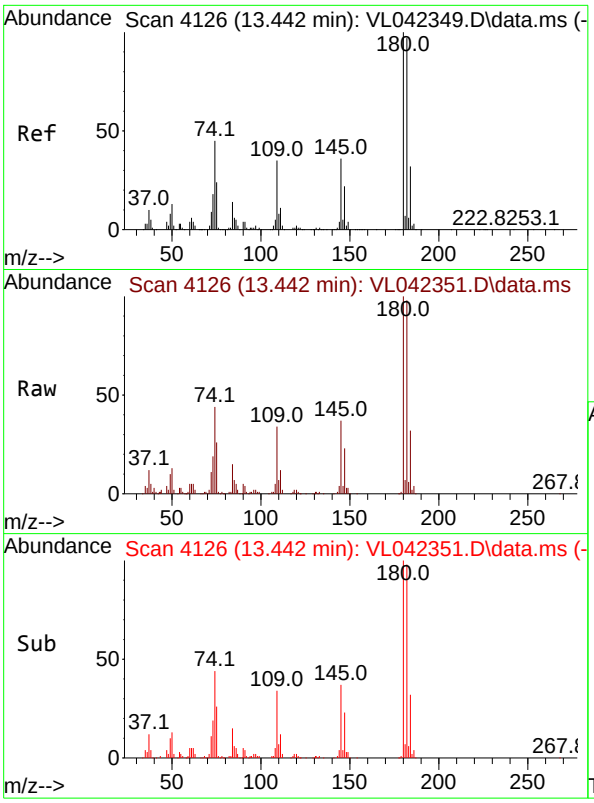


#80
Naphthalene,2-methyl-
Concen: 1.111 ppbv
RT: 14.462 min Scan# 4441
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

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



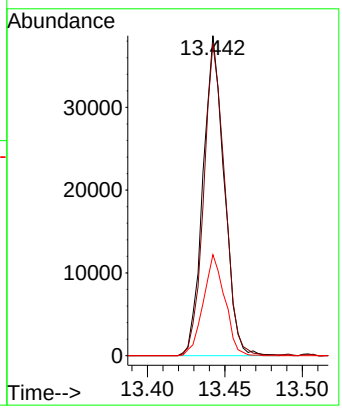


#81
1,2,4-Trichlorobenzene
Concen: 1.074 ppbv
RT: 13.442 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

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

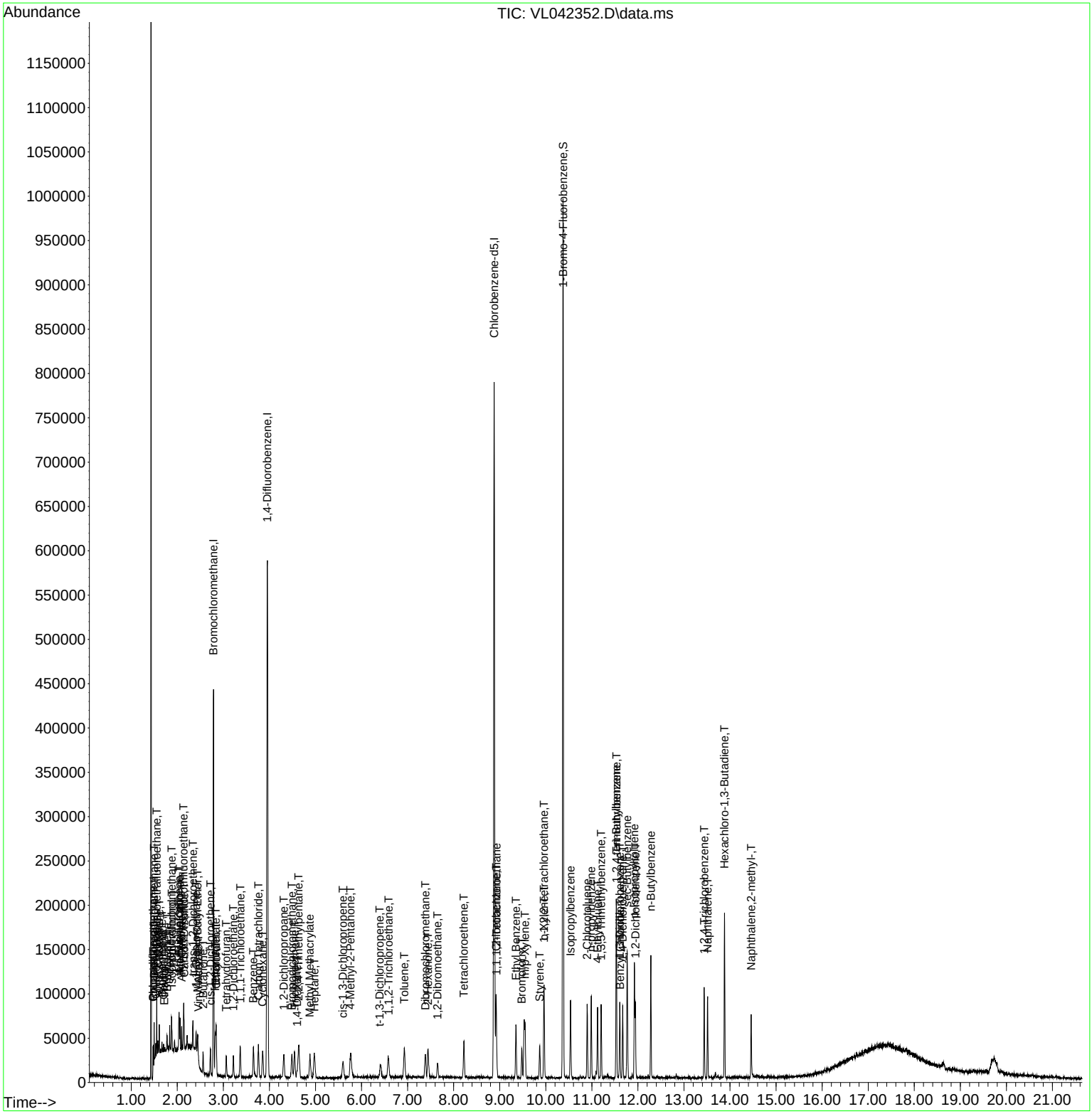
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) cis-1,3-Dichloropropene	5.596	75	7634	0.356	ppbv	#	91
47) 1,1,2-Trichloroethane	6.590	97	2374	0.164	ppbv		94
48) Dibromochloromethane	7.386	129	13122	0.514	ppbv		97
49) Bromoform	9.477	173	10988	0.492	ppbv		99
50) 4-Methyl-2-Pentanone	5.761	43	14380	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

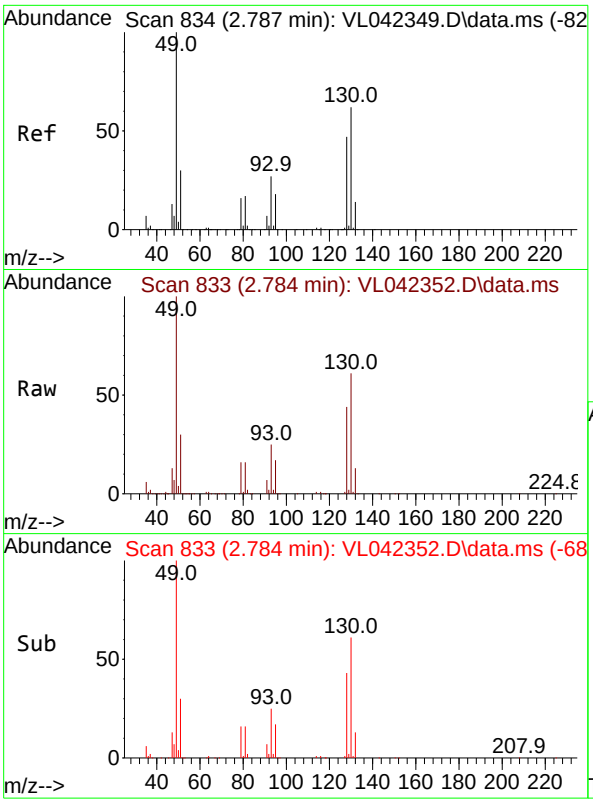
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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



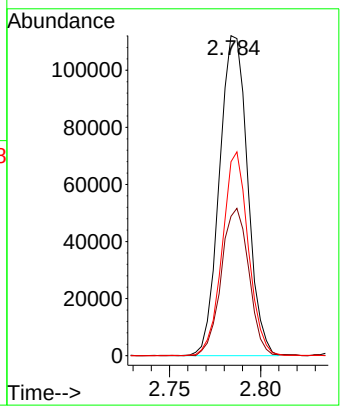


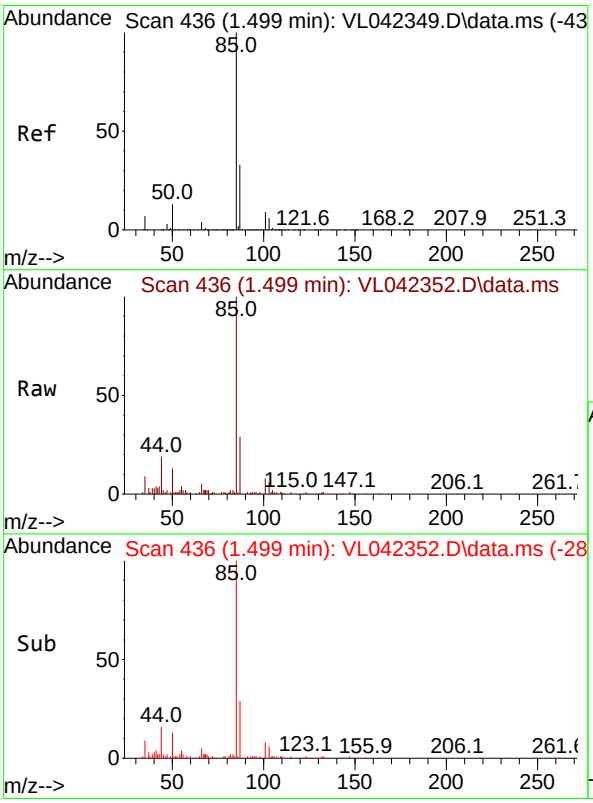
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 8
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

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

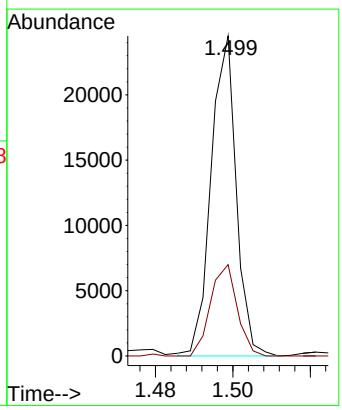


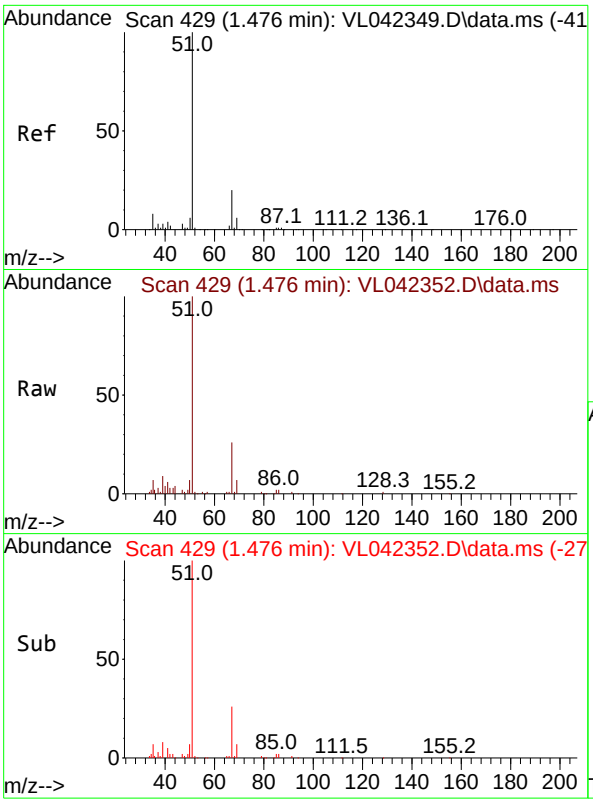


#2
Dichlorodifluoromethane
Concen: 0.518 ppbv
RT: 1.499 min Scan# 436
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 85 Resp: 11036

Ion	Ratio	Lower	Upper
85	100		
87	28.6	26.6	39.8



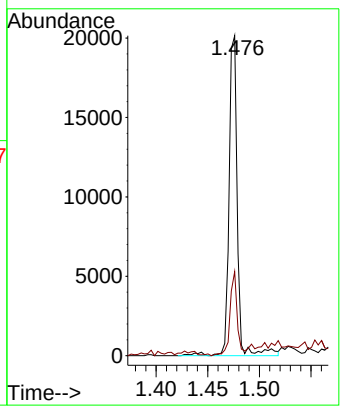


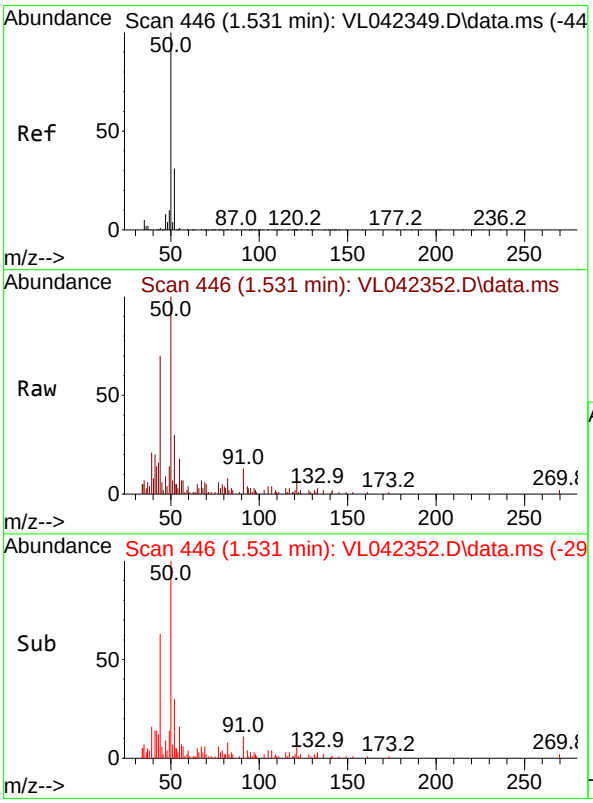
#3
Chlorodifluoromethane
Concen: 0.557 ppbv
RT: 1.476 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 51 Resp: 11304

Ion	Ratio	Lower	Upper
51	100		
67	27.8	16.2	24.4#

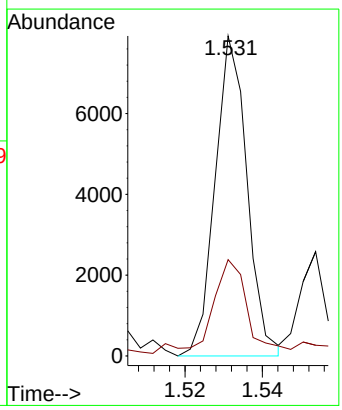


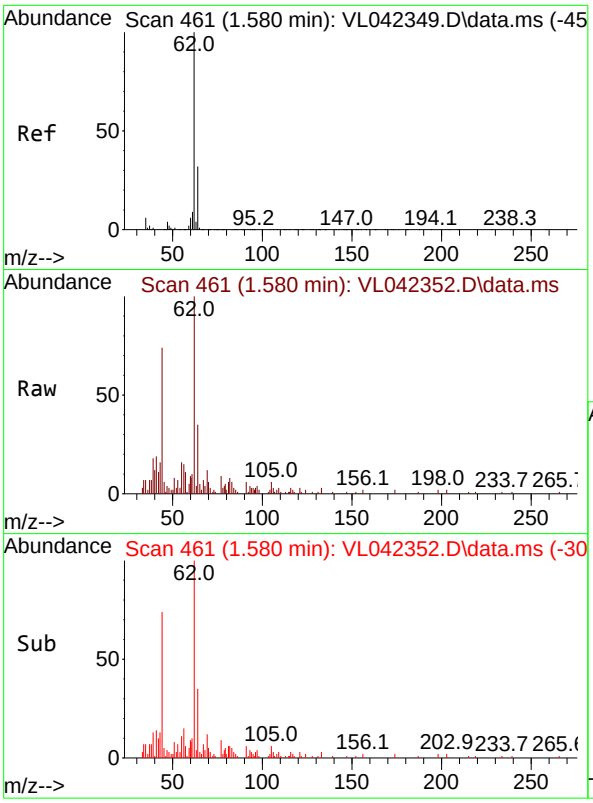


#4
Chloromethane
Concen: 0.538 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 50 Resp: 4534

Ion	Ratio	Lower	Upper
50	100		
52	32.8	24.7	37.1



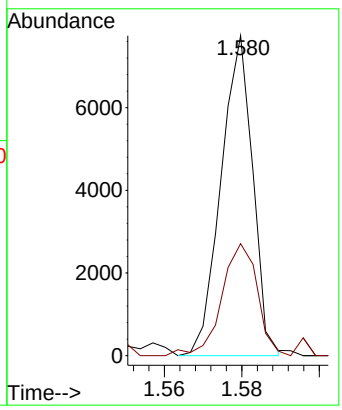


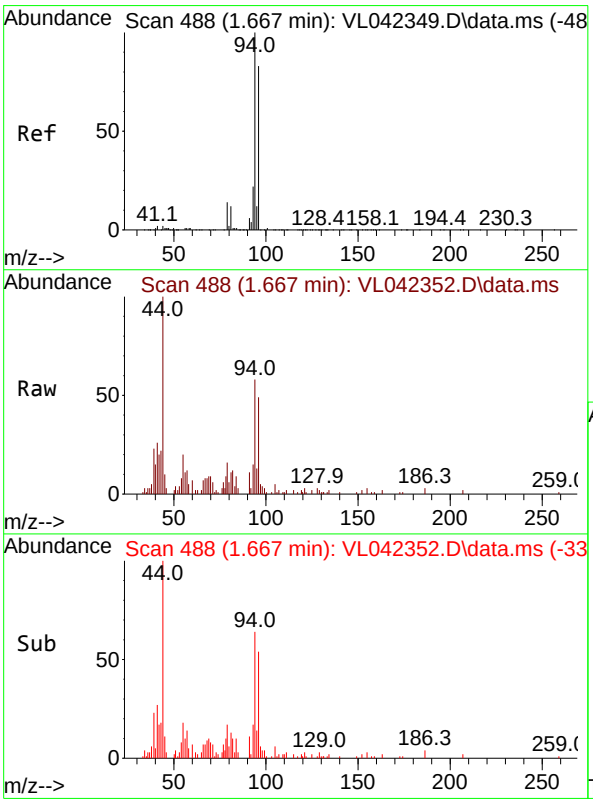
#5
Vinyl Chloride
Concen: 0.480 ppbv
RT: 1.580 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 62 Resp: 4406

Ion	Ratio	Lower	Upper
62	100		
64	33.5	25.4	38.0

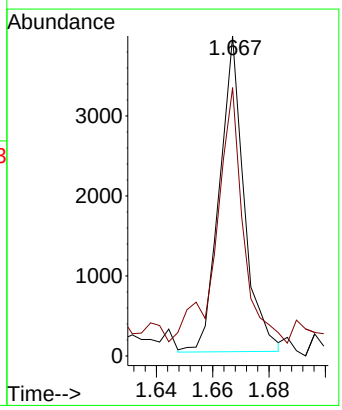


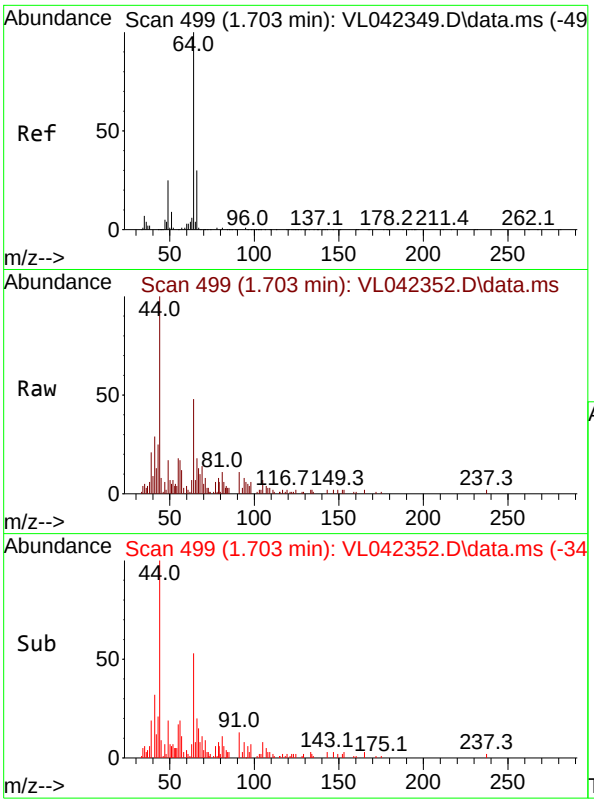


#6
Bromomethane
Concen: 0.602 ppbv
RT: 1.667 min Scan# 488
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 94 Resp: 2394

Ion	Ratio	Lower	Upper
94	100		
96	78.1	66.2	99.2



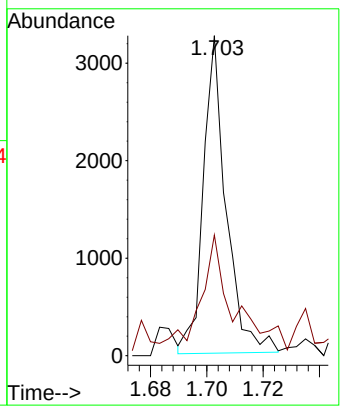


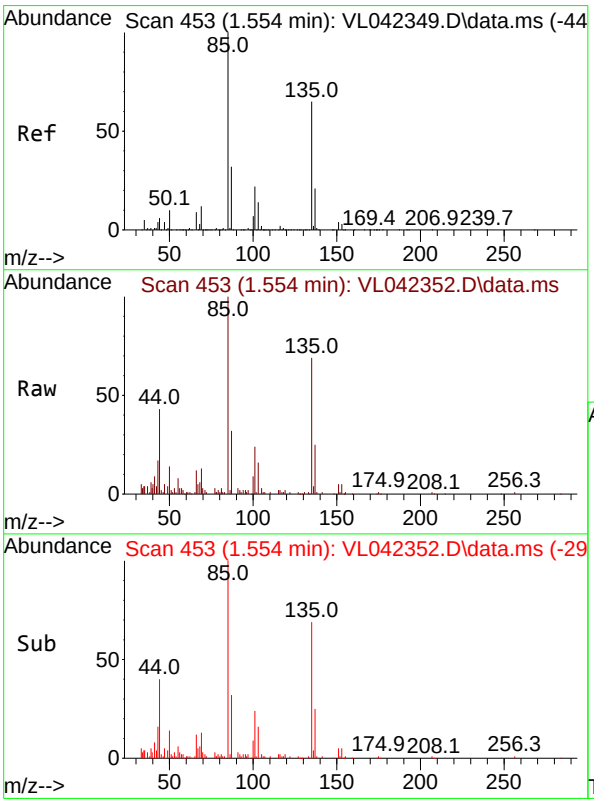
#7
Chloroethane
Concen: 0.550 ppbv
RT: 1.703 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 64 Resp: 1824

Ion	Ratio	Lower	Upper
64	100		
66	37.7	24.6	37.0#

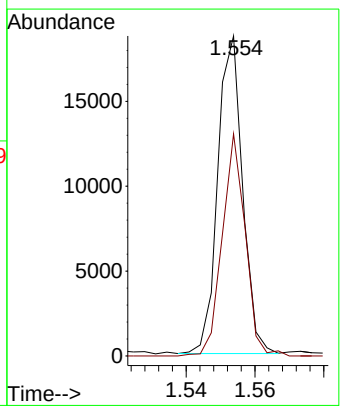


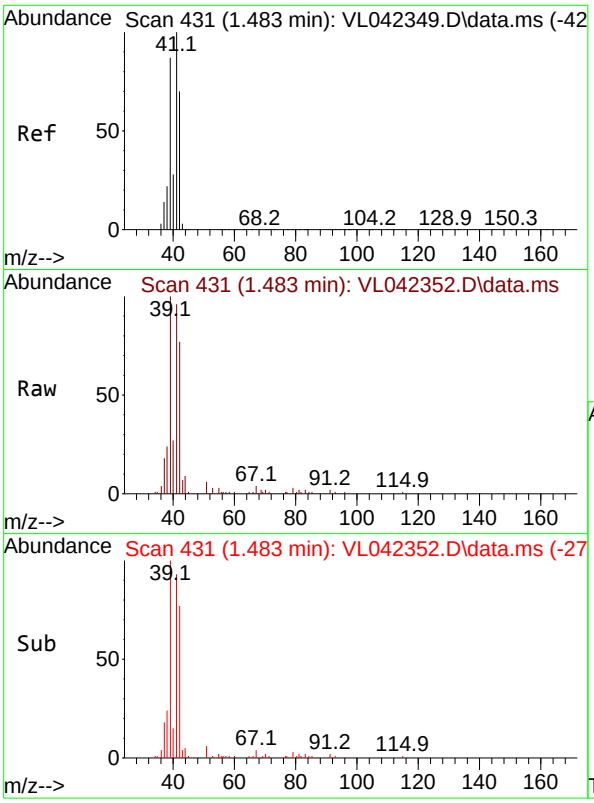


#8
Dichlorotetrafluoroethane
Concen: 0.513 ppbv
RT: 1.554 min Scan# 453
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 85 Resp: 9381

Ion	Ratio	Lower	Upper
85	100		
135	66.2	52.2	78.2



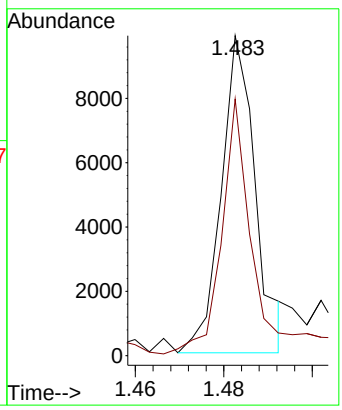


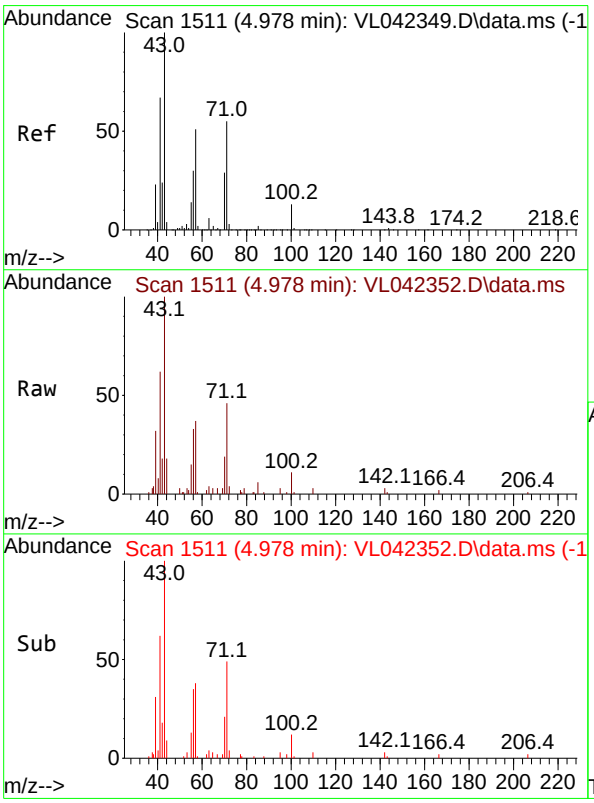
#9
Propene
Concen: 0.574 ppbv
RT: 1.483 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 41 Resp: 5303

Ion	Ratio	Lower	Upper
41	100		
42	64.8	56.2	84.4

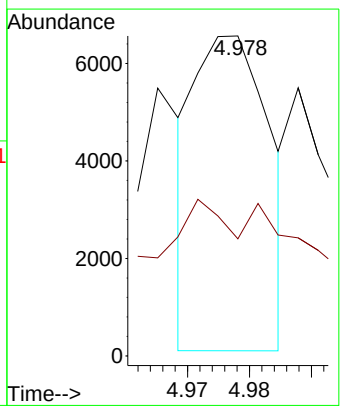


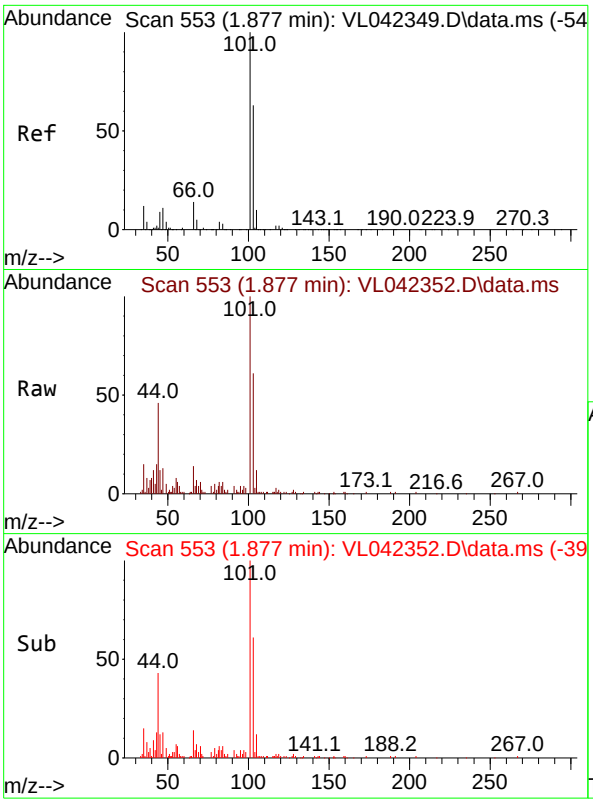


#10
Heptane
Concen: 0.219 ppbv
RT: 4.978 min Scan# 1511
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 43 Resp: 5438

Ion	Ratio	Lower	Upper
43	100		
57	138.4	39.9	59.9#



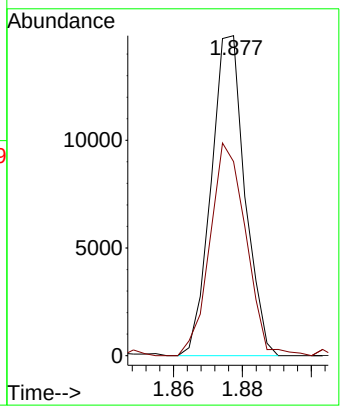


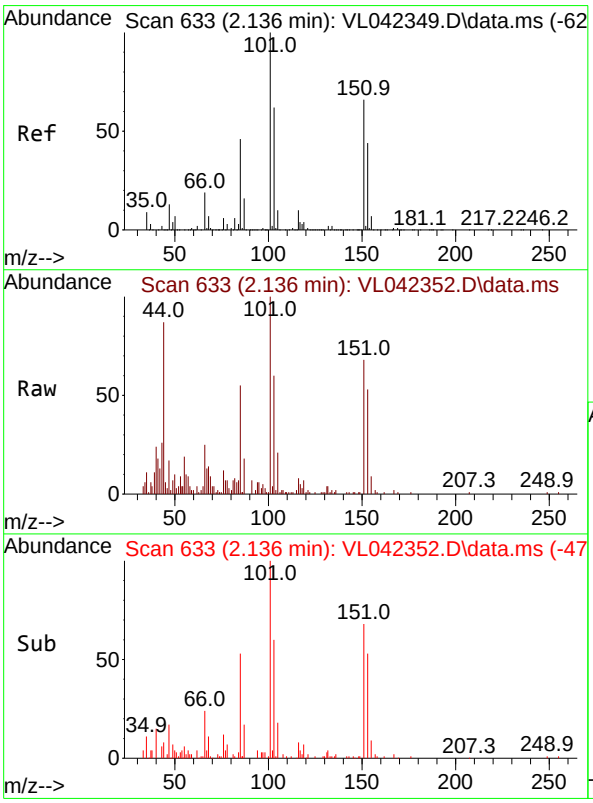
#11
Trichlorofluoromethane
Concen: 0.501 ppbv
RT: 1.877 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion:101 Resp: 10150

Ion	Ratio	Lower	Upper
101	100		
103	60.6	50.1	75.1

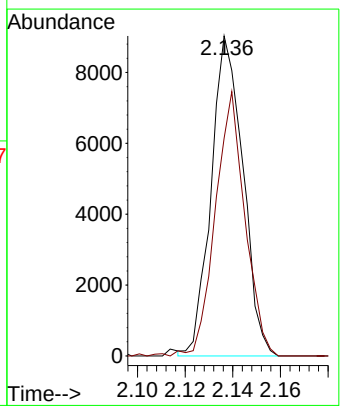


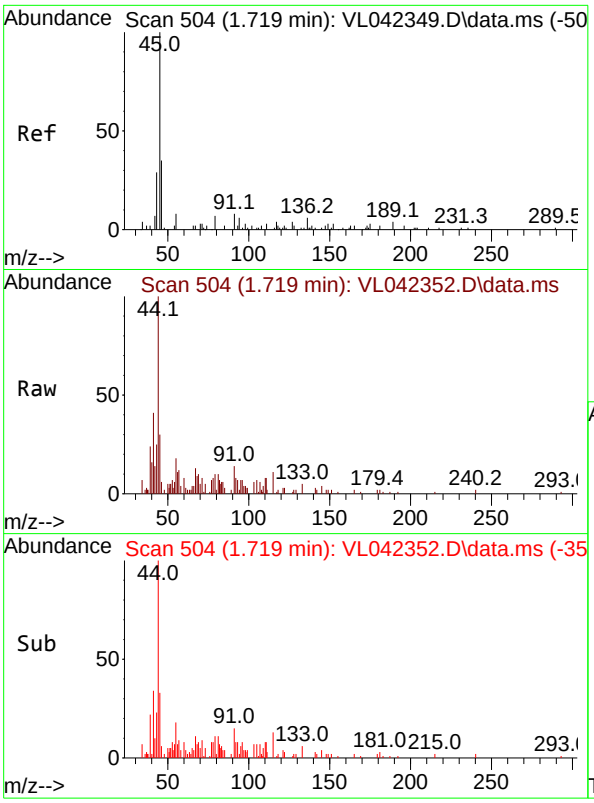


#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.506 ppbv
RT: 2.136 min Scan# 633
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion:101 Resp: 8371

Ion	Ratio	Lower	Upper
101	100		
151	77.4	57.0	85.6



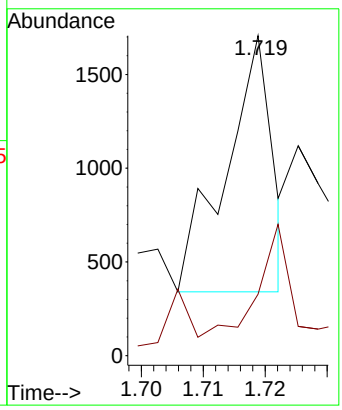


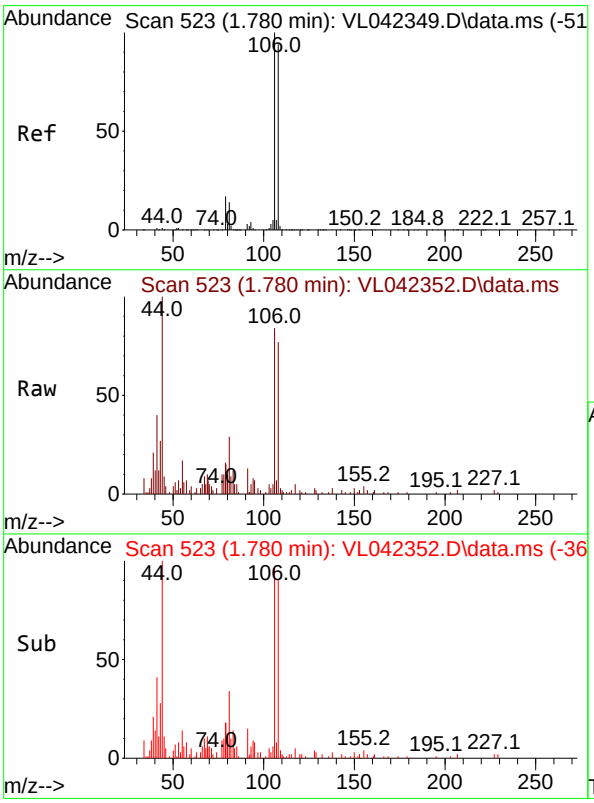
#13
Ethanol
Concen: 0.947 ppbv
RT: 1.719 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 45 Resp: 715

Ion	Ratio	Lower	Upper
45	100		
46	0.0	21.9	87.7#

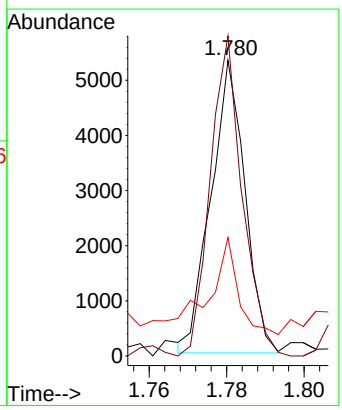


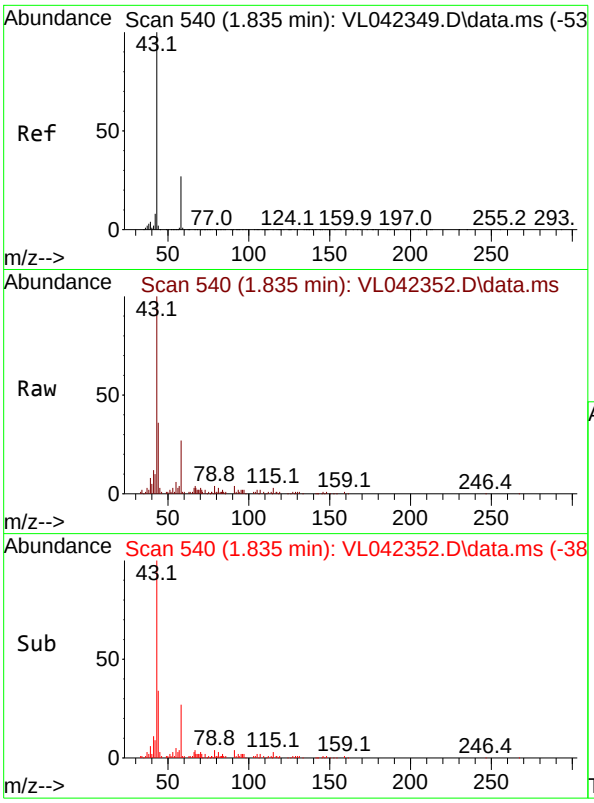


#14
Bromoethene
Concen: 0.519 ppbv
RT: 1.780 min Scan# 523
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

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#



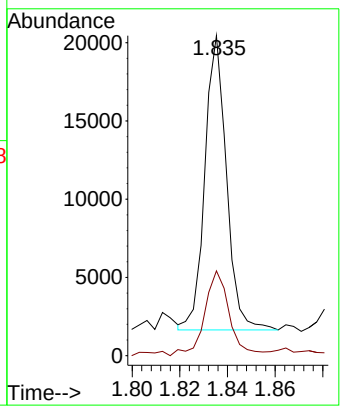


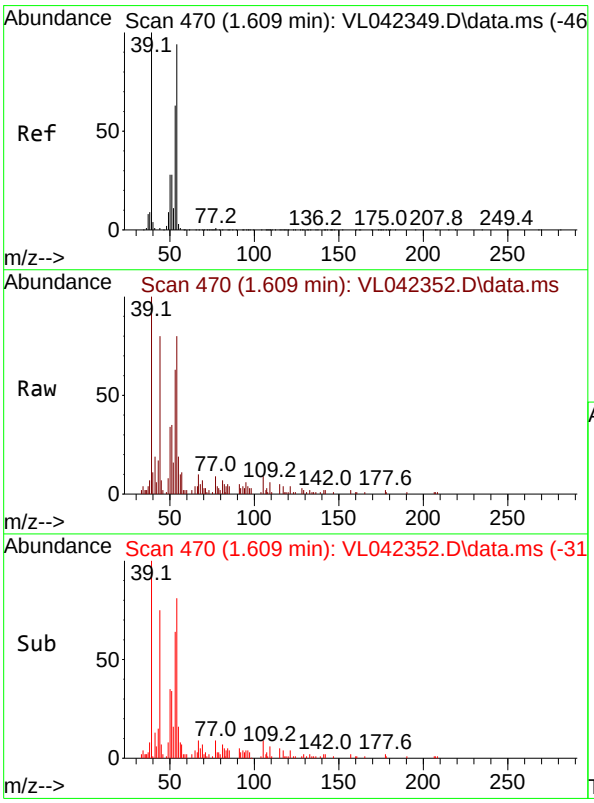
#15
Acetone
Concen: 0.601 ppbv
RT: 1.835 min Scan# 54
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 43 Resp: 11859

Ion	Ratio	Lower	Upper
43	100		
58	41.7	22.4	33.6#

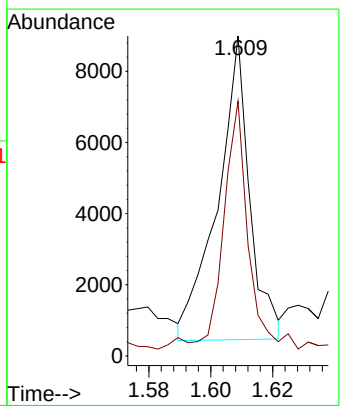


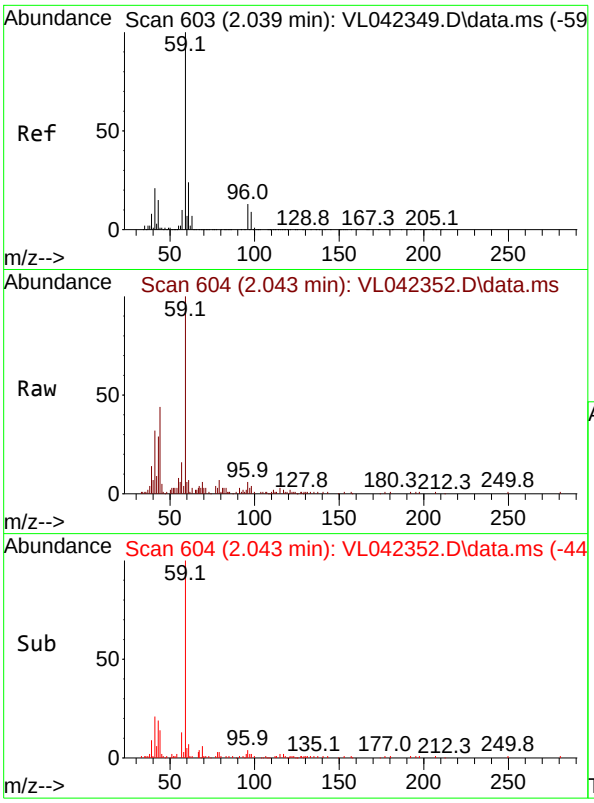


#16
1,3-Butadiene
Concen: 0.660 ppbv
RT: 1.609 min Scan# 470
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 39 Resp: 6120

Ion	Ratio	Lower	Upper
39	100		
54	64.7	64.9	97.3#



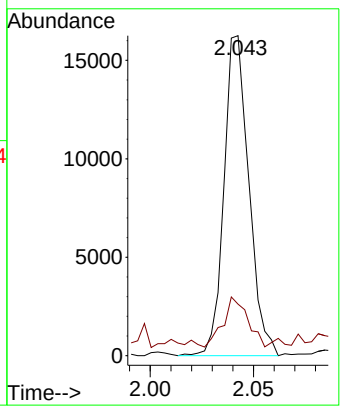


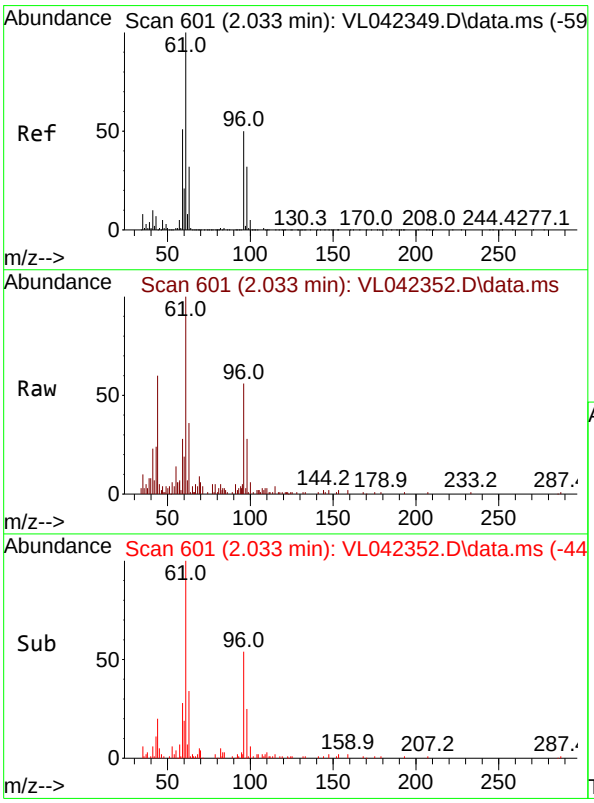
#17
tert-Butyl alcohol
Concen: 0.558 ppbv
RT: 2.043 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 59 Resp: 13640

Ion	Ratio	Lower	Upper
59	100		
57	16.5	8.7	13.1#

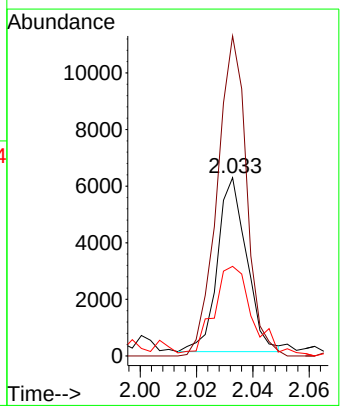


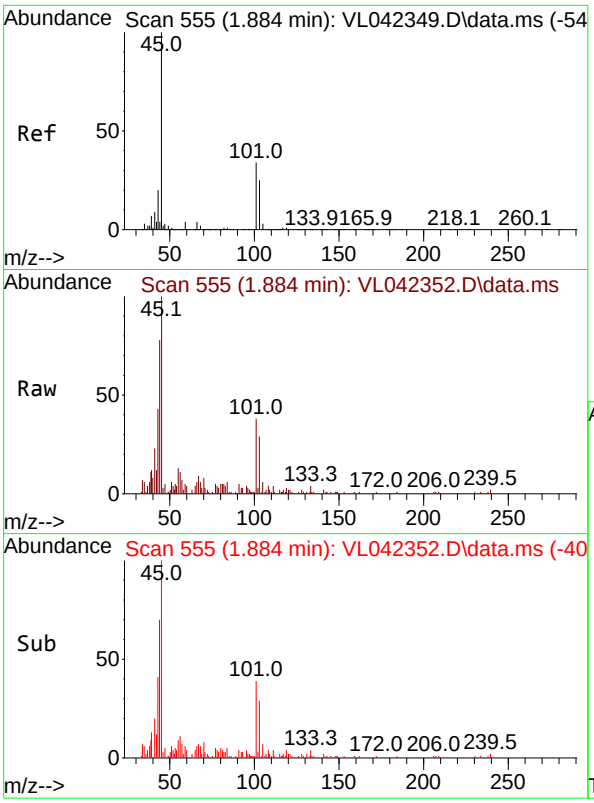


#18
1,1-Dichloroethene
Concen: 0.556 ppbv
RT: 2.033 min Scan# 601
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

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#



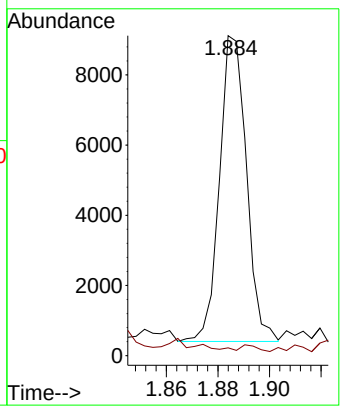


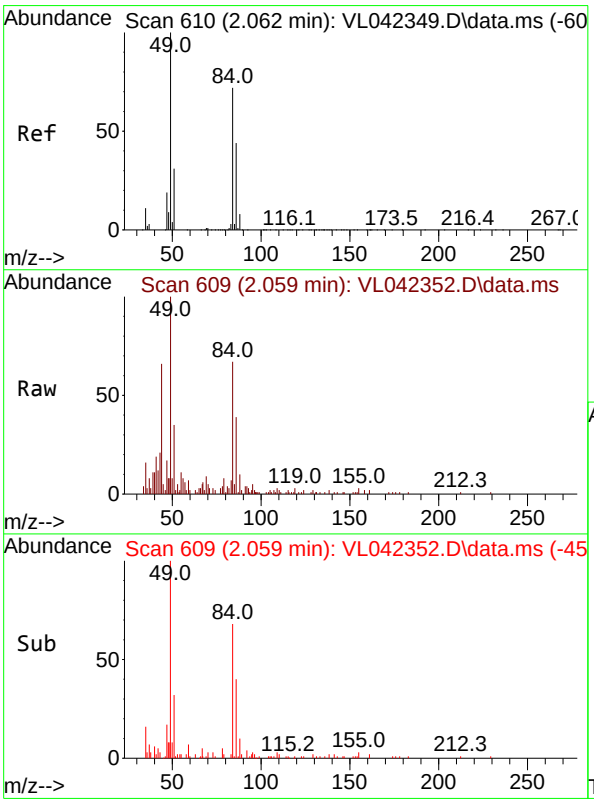
#19
Isopropyl Alcohol
Concen: 0.577 ppbv
RT: 1.884 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 45 Resp: 6327

Ion	Ratio	Lower	Upper
45	100		
58	3.8	34.5	51.7#

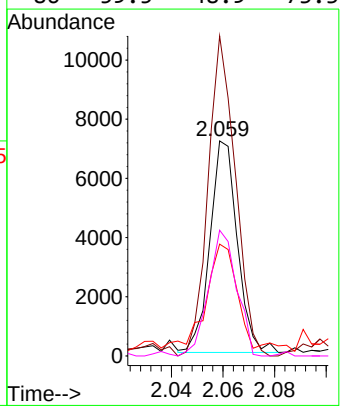


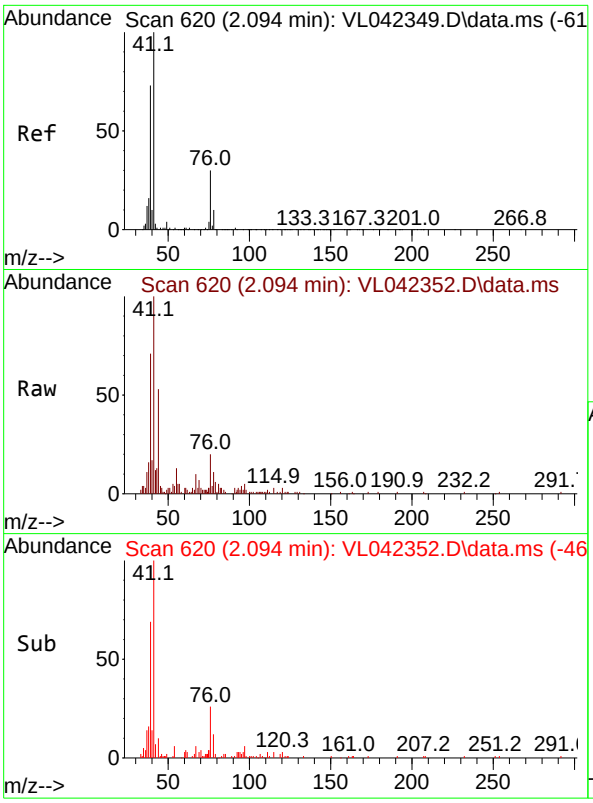


#20
Methylene Chloride
Concen: 0.682 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

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



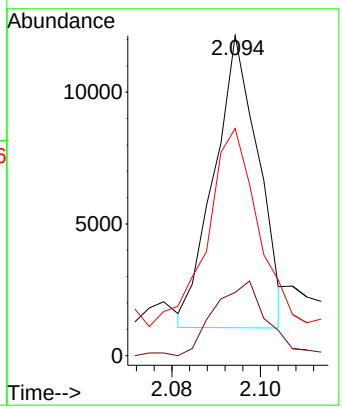


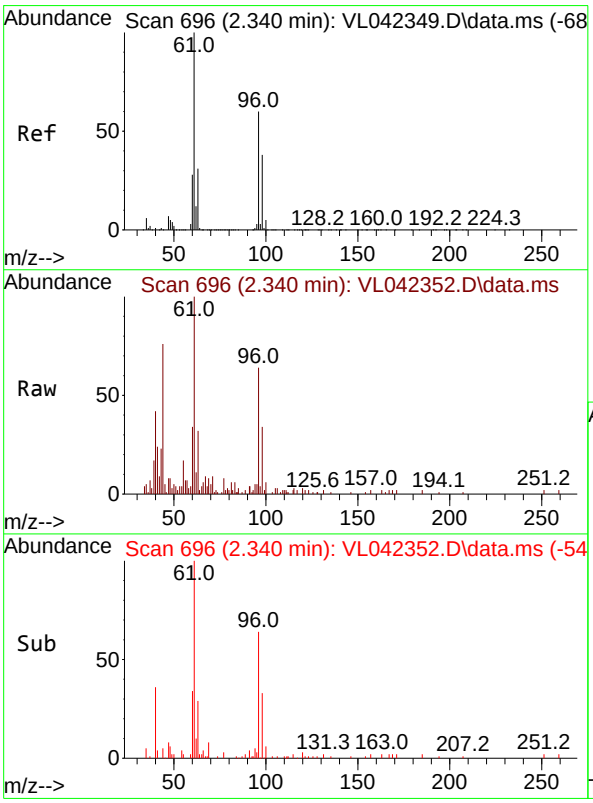
#21
Allyl Chloride
Concen: 0.565 ppbv
RT: 2.094 min Scan# 6
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

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#

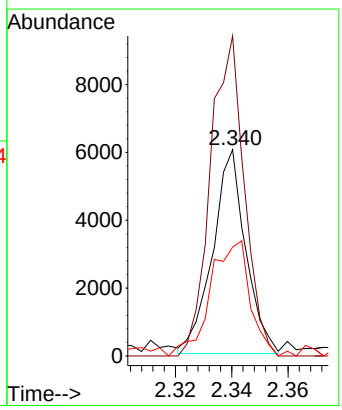


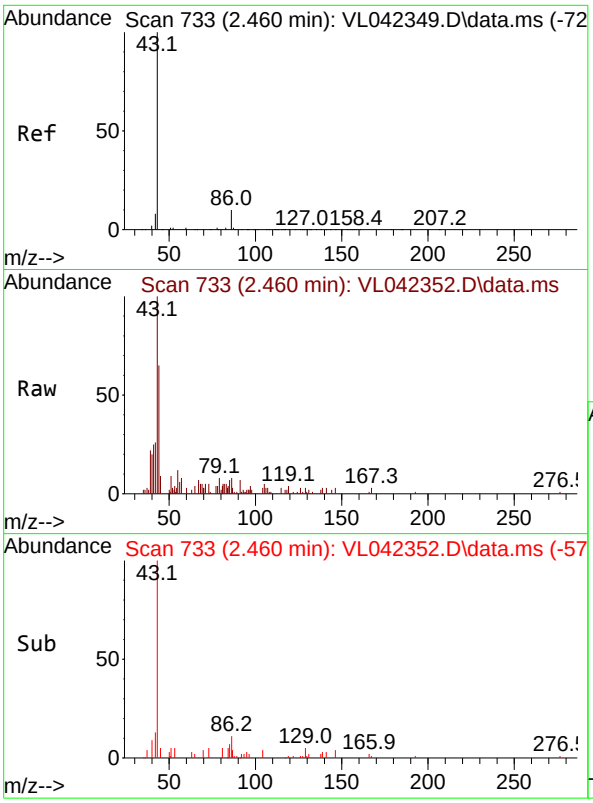


#22
trans-1,2-Dichloroethene
Concen: 0.557 ppbv
RT: 2.340 min Scan# 696
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

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



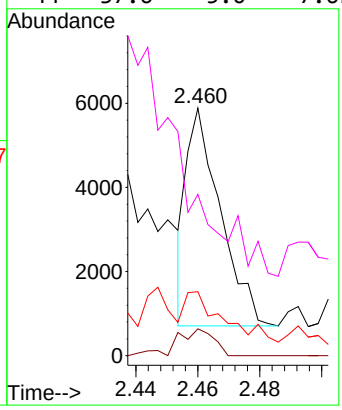


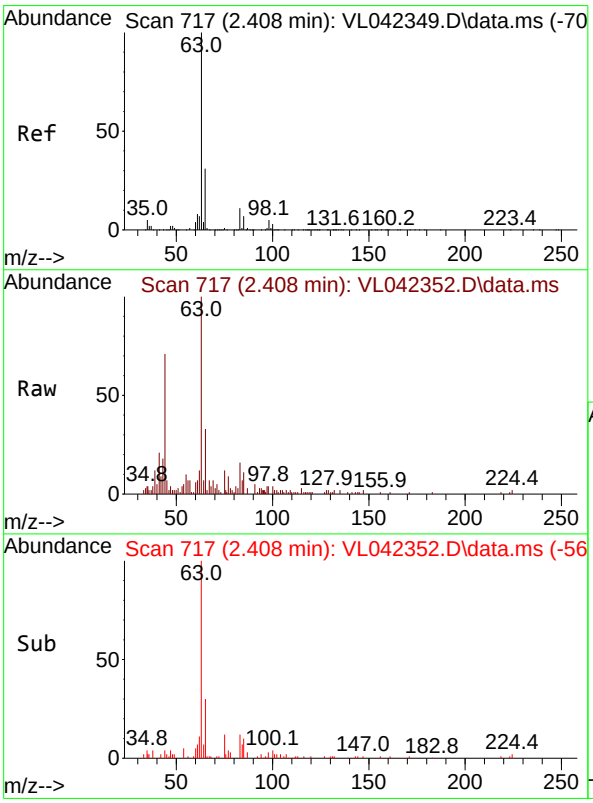
#23
Vinyl Acetate
Concen: 0.495 ppbv
RT: 2.460 min Scan# 7
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

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#

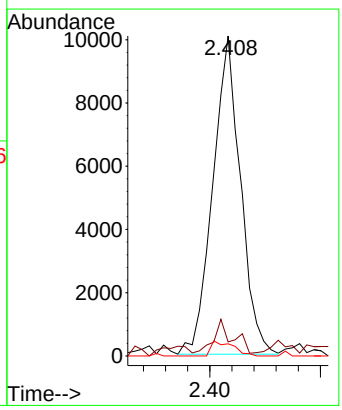


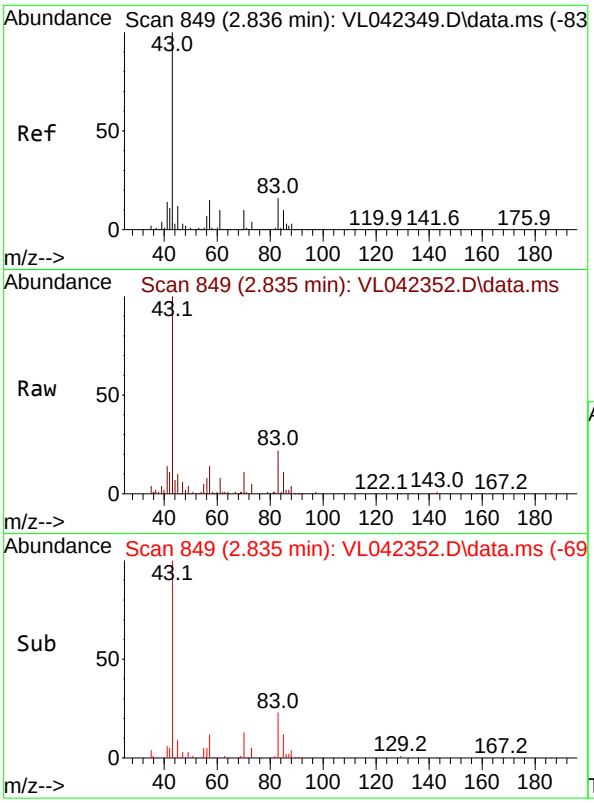


#24
1,1-Dichloroethane
Concen: 0.523 ppbv
RT: 2.408 min Scan# 717
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

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



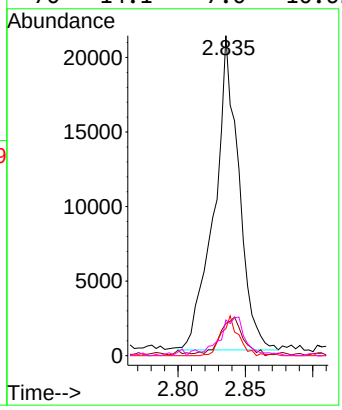


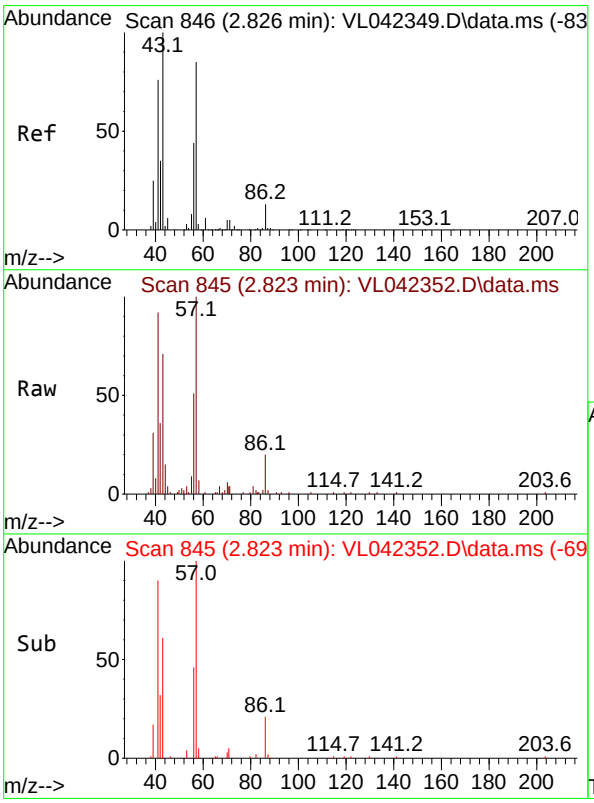
#25
Ethyl Acetate
Concen: 0.548 ppbv
RT: 2.835 min Scan# 84
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

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#

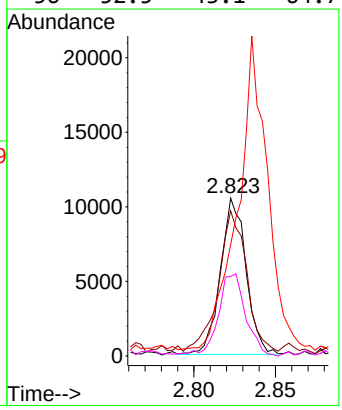


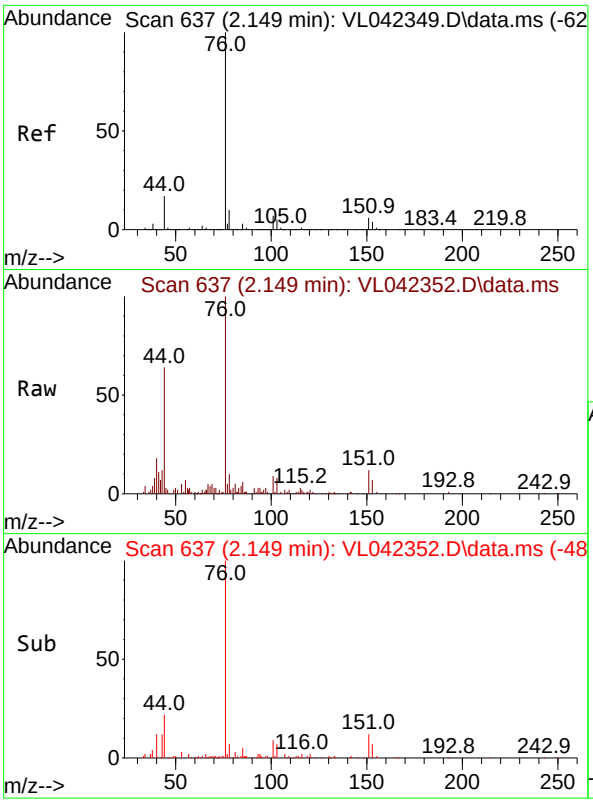


#26
Hexane
Concen: 0.581 ppbv
RT: 2.823 min Scan# 845
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

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



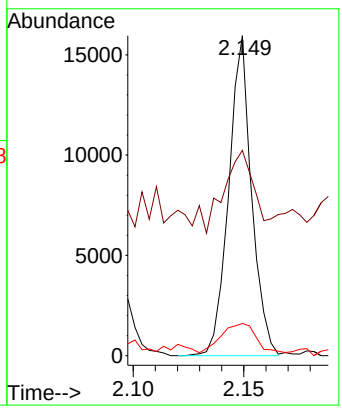


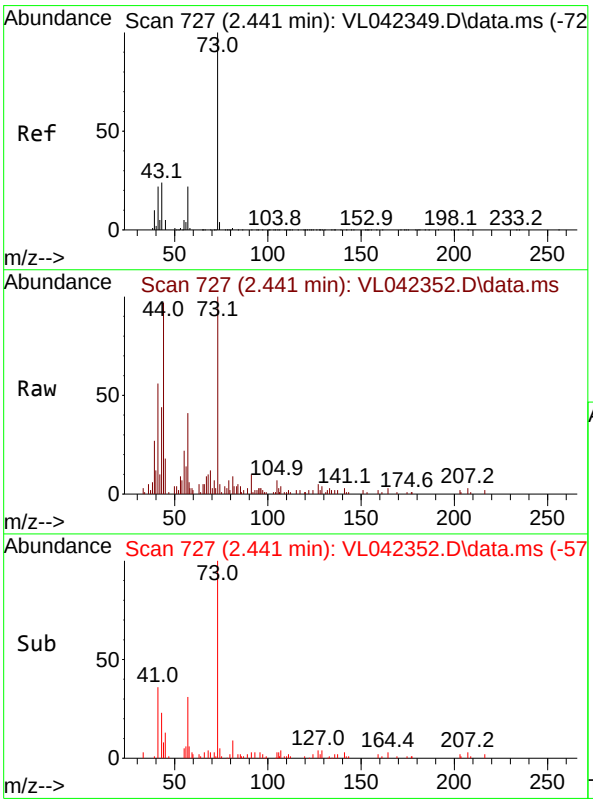
#27
Carbon Disulfide
Concen: 0.544 ppbv
RT: 2.149 min Scan# 6
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

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#

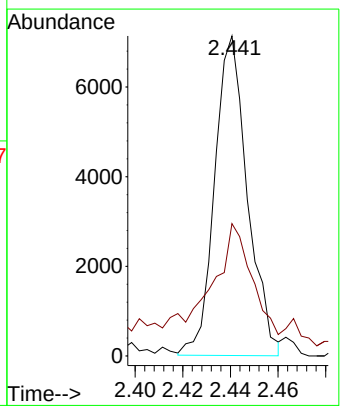


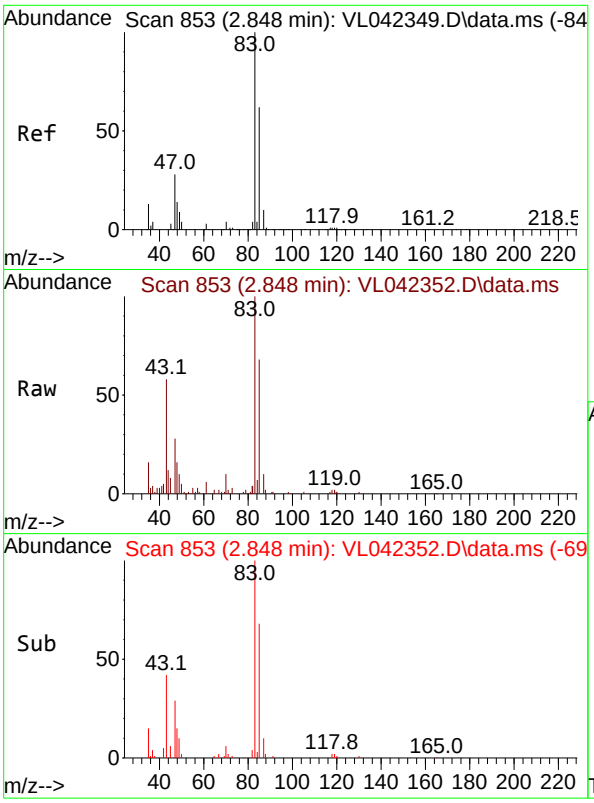


#28
Methyl tert-Butyl Ether
Concen: 0.530 ppbv
RT: 2.441 min Scan# 727
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 73 Resp: 6833

Ion	Ratio	Lower	Upper
73	100		
57	61.8	21.3	31.9#



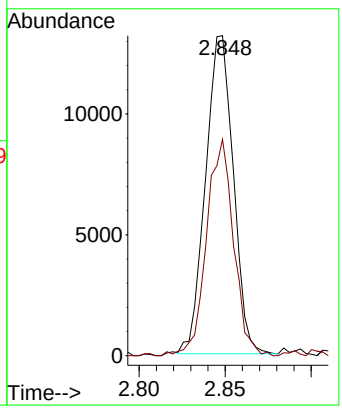


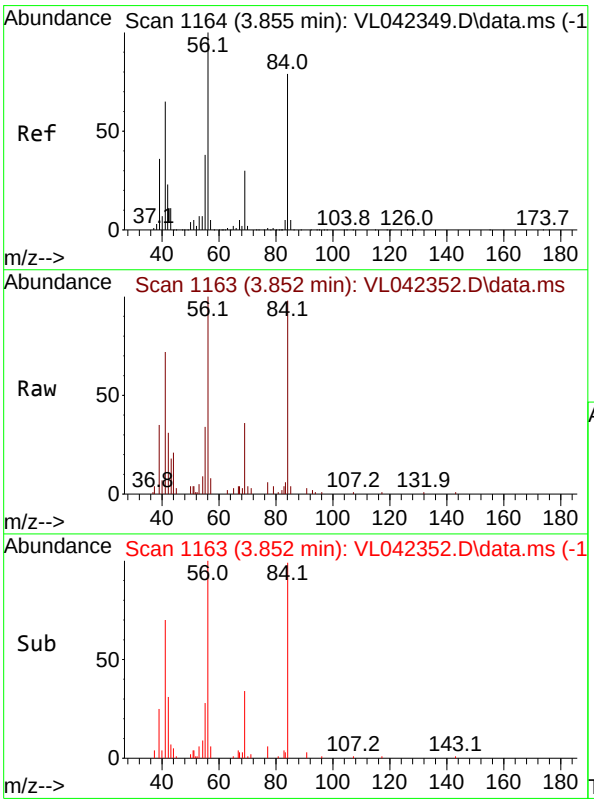
#29
Chloroform
Concen: 0.532 ppbv
RT: 2.848 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 83 Resp: 14815

Ion	Ratio	Lower	Upper
83	100		
85	68.0	50.0	75.0

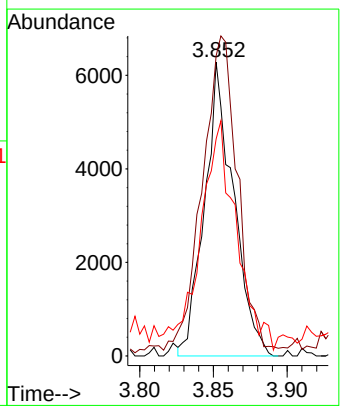


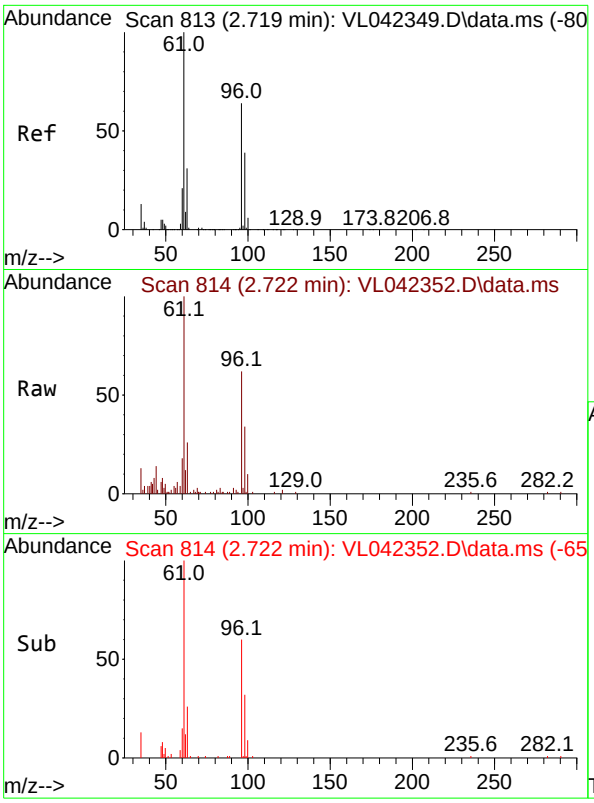


#30
Cyclohexane
Concen: 0.541 ppbv
RT: 3.852 min Scan# 1163
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

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



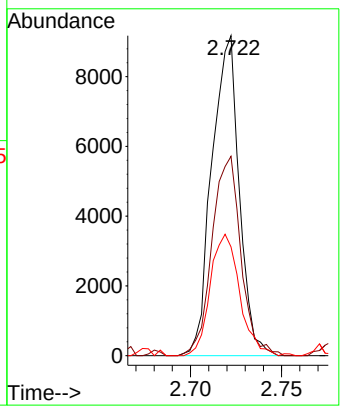


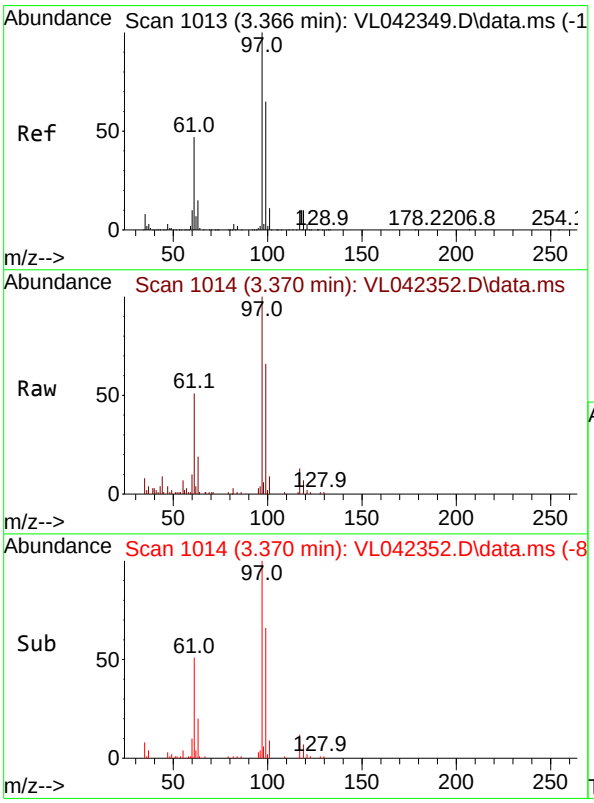
#31
cis-1,2-Dichloroethene
Concen: 0.511 ppbv
RT: 2.722 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

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

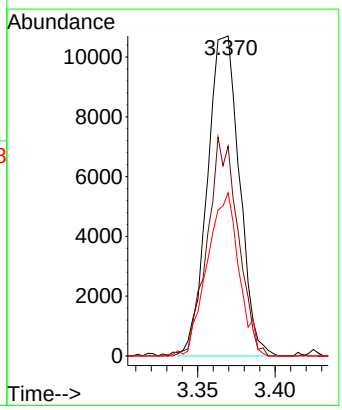


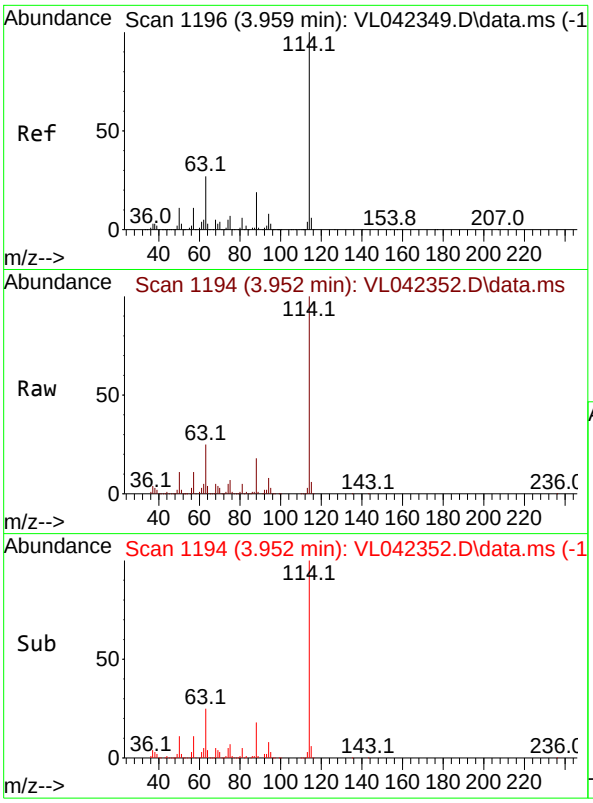


#32
1,1,1-Trichloroethane
Concen: 0.516 ppbv
RT: 3.370 min Scan# 1014
Delta R.T. 0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

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



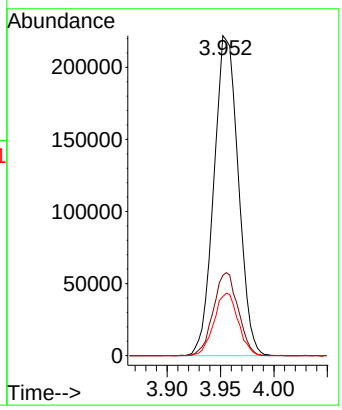


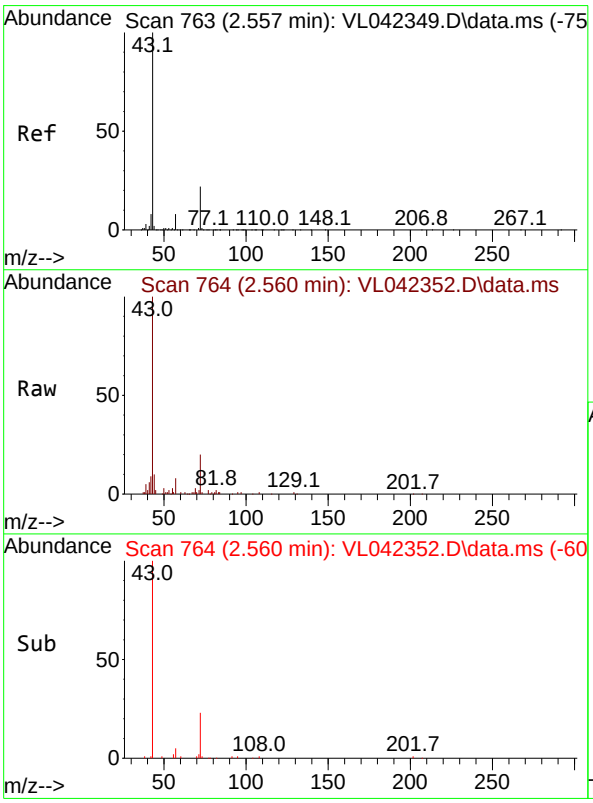
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.952 min Scan# 11
Delta R.T. -0.006 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

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

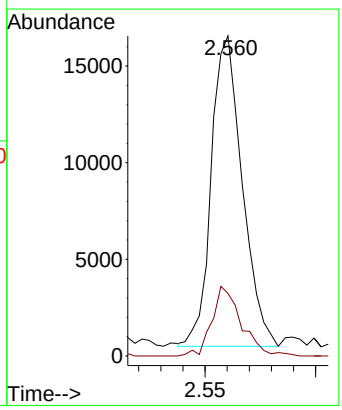


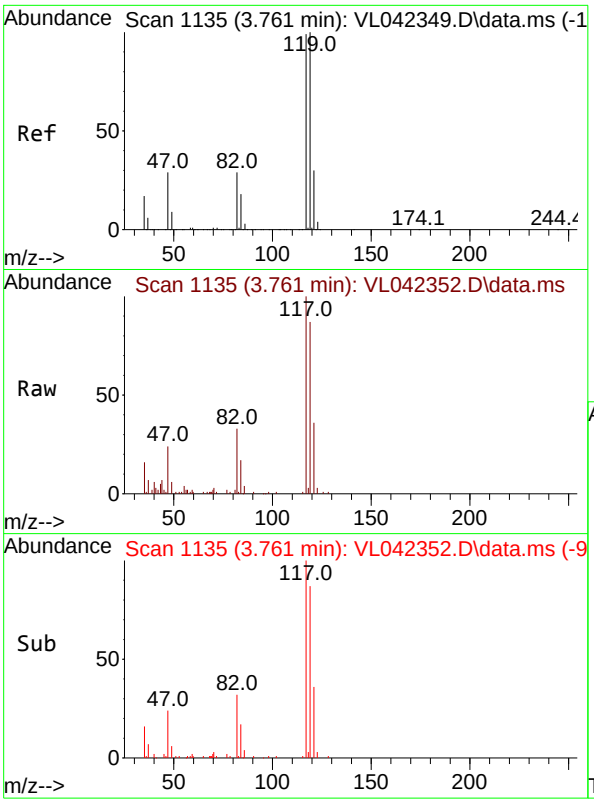


#34
2-Butanone
Concen: 0.560 ppbv
RT: 2.560 min Scan# 764
Delta R.T. 0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 43 Resp: 15640

Ion	Ratio	Lower	Upper
43	100		
72	21.3	18.2	27.2



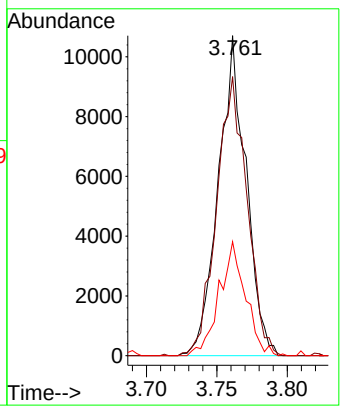


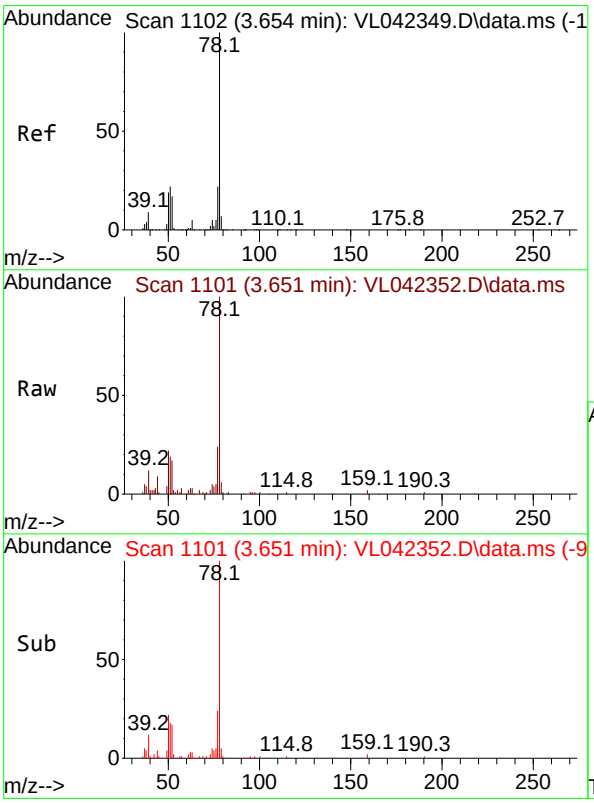
#35
Carbon Tetrachloride
Concen: 0.459 ppbv
RT: 3.761 min Scan# 1
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

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

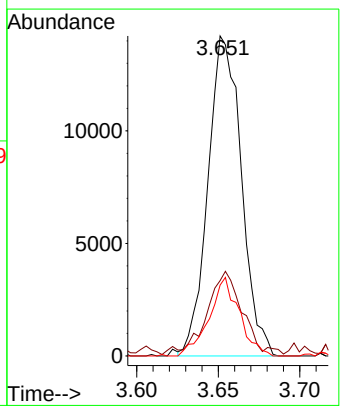


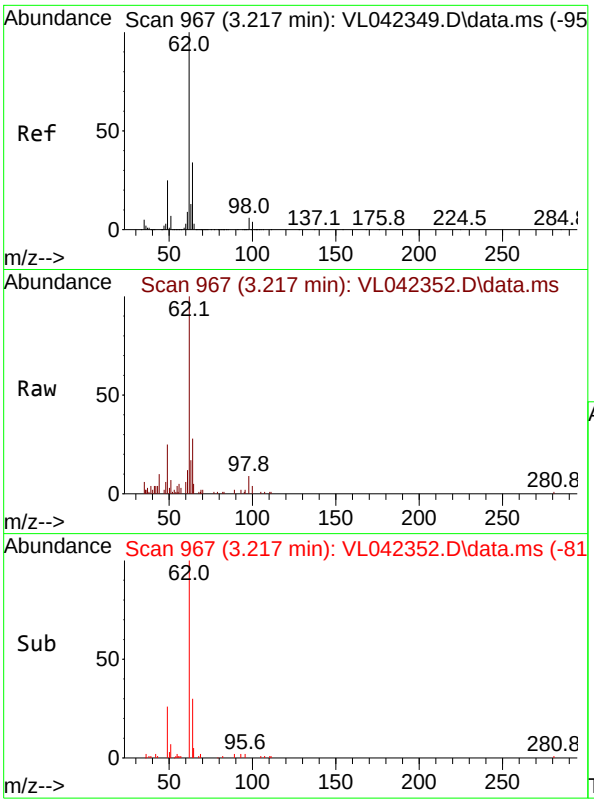


#36
Benzene
Concen: 0.531 ppbv
RT: 3.651 min Scan# 1101
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

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



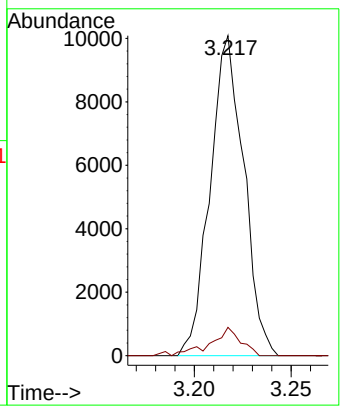


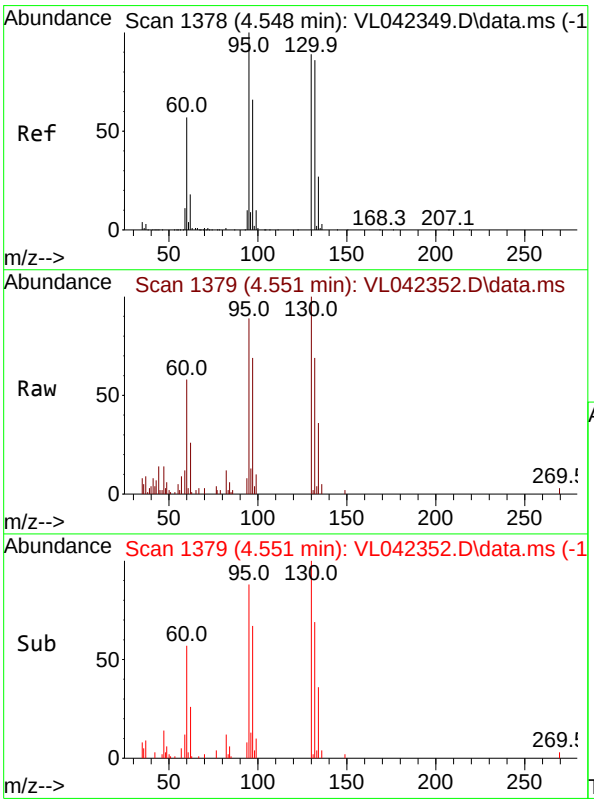
#37
1,2-Dichloroethane
Concen: 0.533 ppbv
RT: 3.217 min Scan# 9
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 62 Resp: 12194

Ion	Ratio	Lower	Upper
62	100		
98	8.1	5.1	7.7#

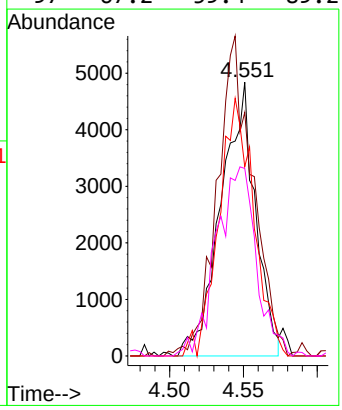


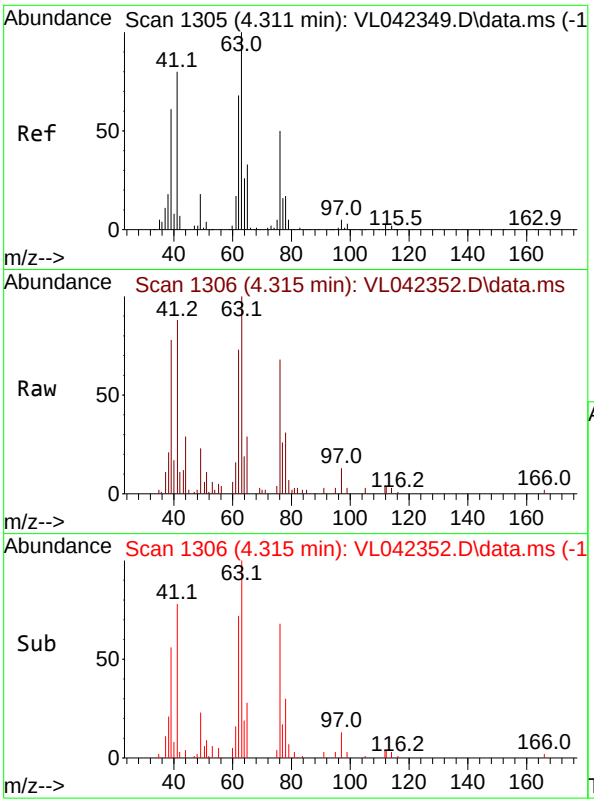


#38
Trichloroethene
Concen: 0.468 ppbv
RT: 4.551 min Scan# 1379
Delta R.T. 0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

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



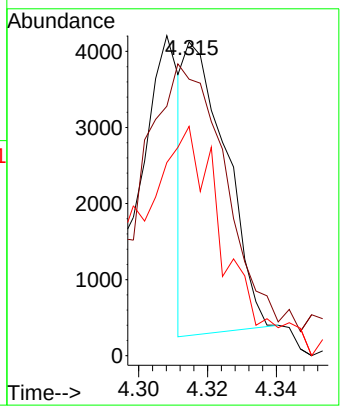


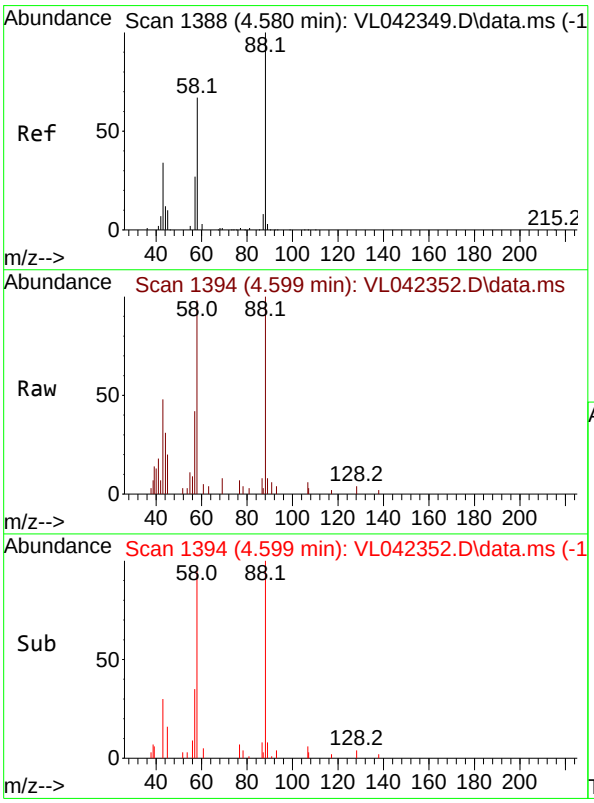
#39
1,2-Dichloropropane
Concen: 0.225 ppbv
RT: 4.315 min Scan# 1
Delta R.T. 0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

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

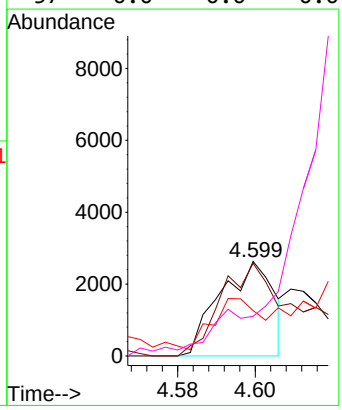


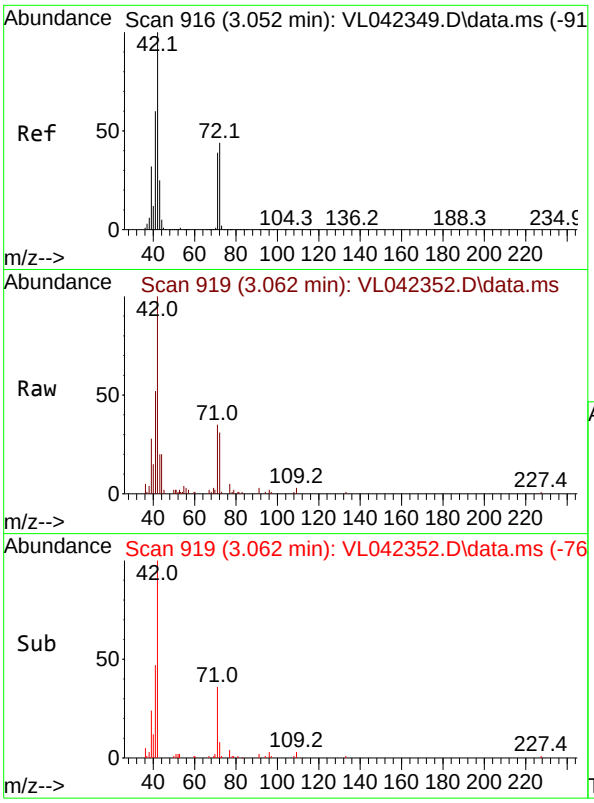


#40
1,4-Dioxane
Concen: 0.331 ppbv
RT: 4.599 min Scan# 1394
Delta R.T. 0.019 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

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



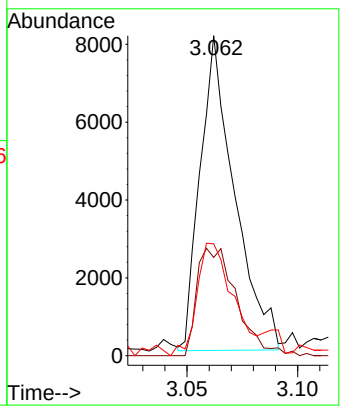


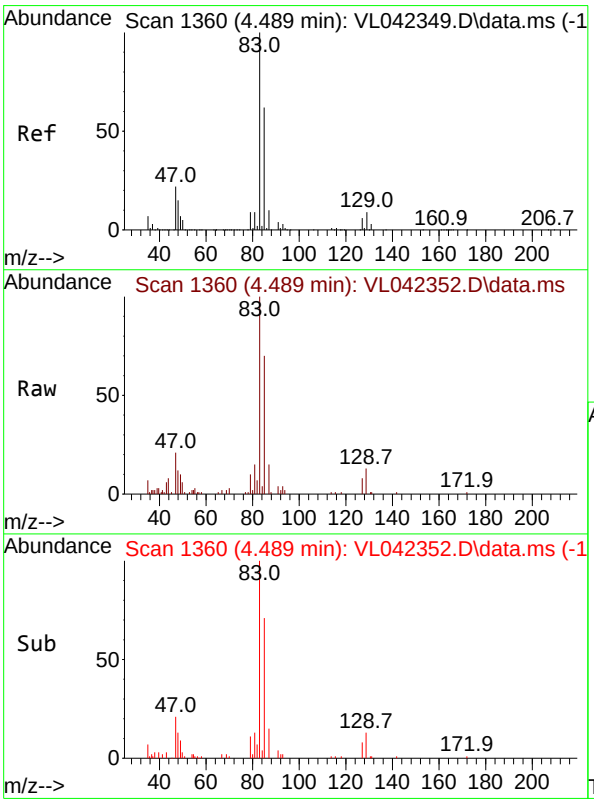
#41
Tetrahydrofuran
Concen: 0.544 ppbv
RT: 3.062 min Scan# 91
Delta R.T. 0.010 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

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

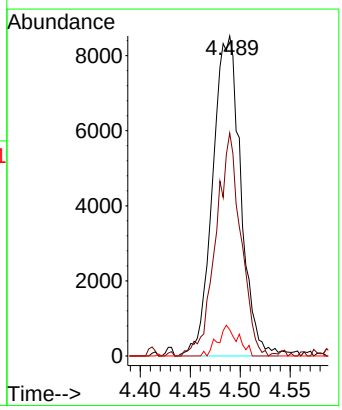


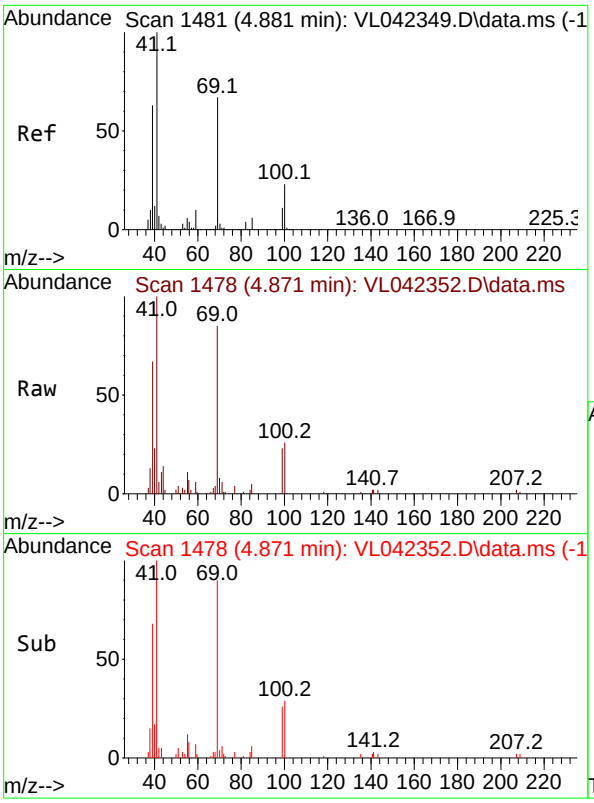


#42
Bromodichloromethane
Concen: 0.523 ppbv
RT: 4.489 min Scan# 1360
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

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#



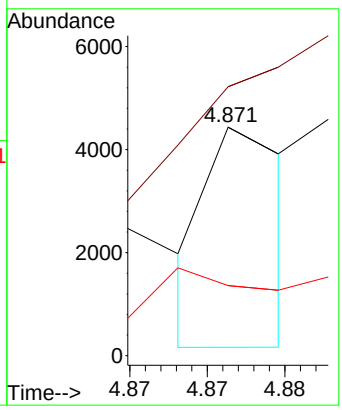


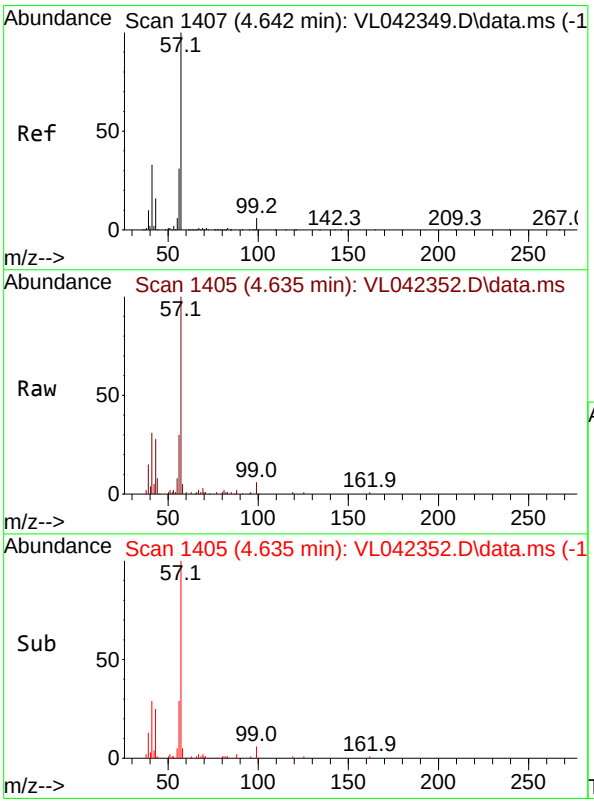
#43
Methyl Methacrylate
Concen: 0.091 ppbv
RT: 4.871 min Scan# 14
Delta R.T. -0.010 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

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#

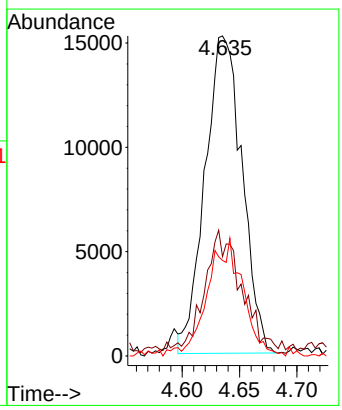


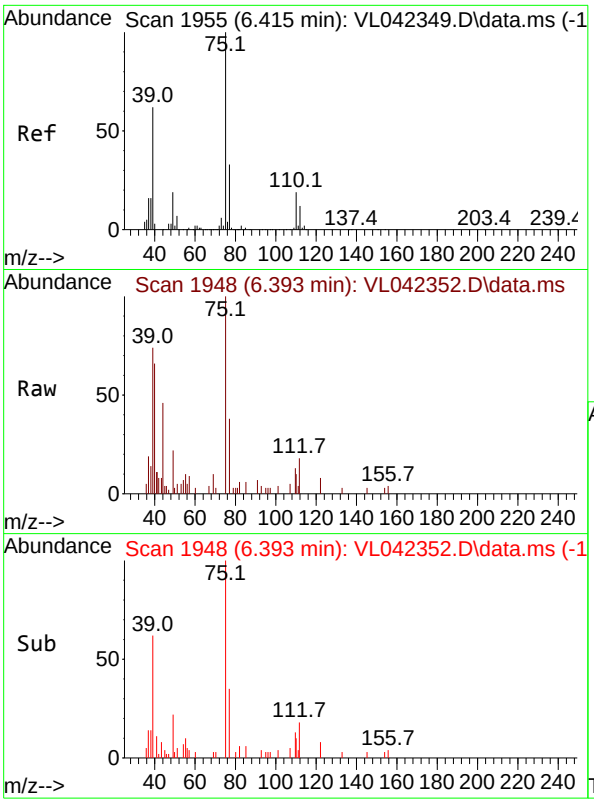


#44
2,2,4-Trimethylpentane
Concen: 0.519 ppbv
RT: 4.635 min Scan# 1405
Delta R.T. -0.006 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

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



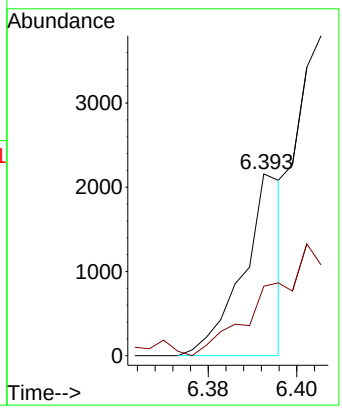


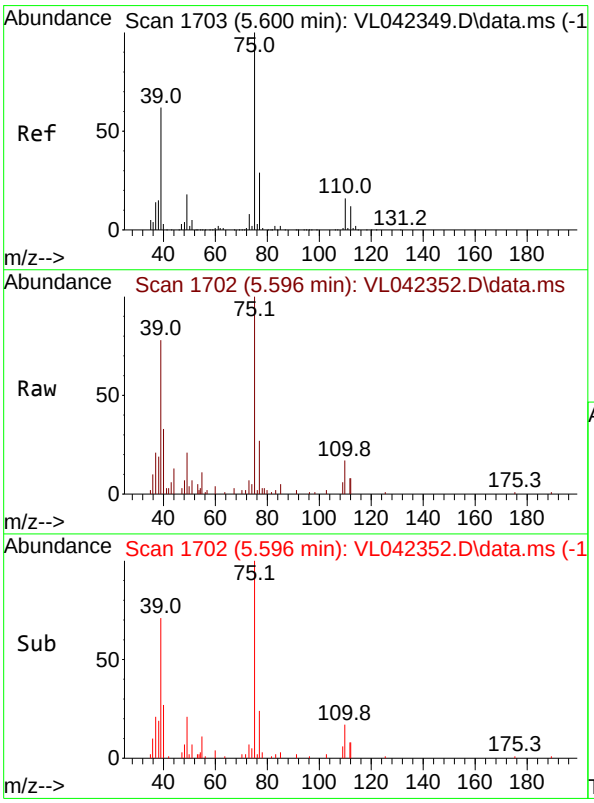
#45
t-1,3-Dichloropropene
Concen: 0.076 ppbv
RT: 6.393 min Scan# 1
Delta R.T. -0.023 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 75 Resp: 1332

Ion	Ratio	Lower	Upper
75	100		
77	38.2	27.0	40.6

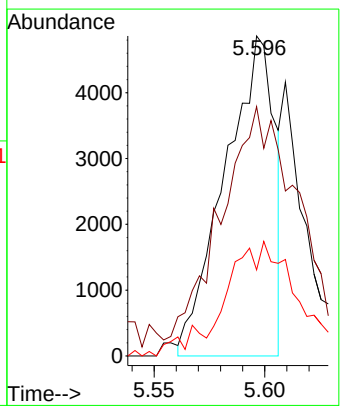


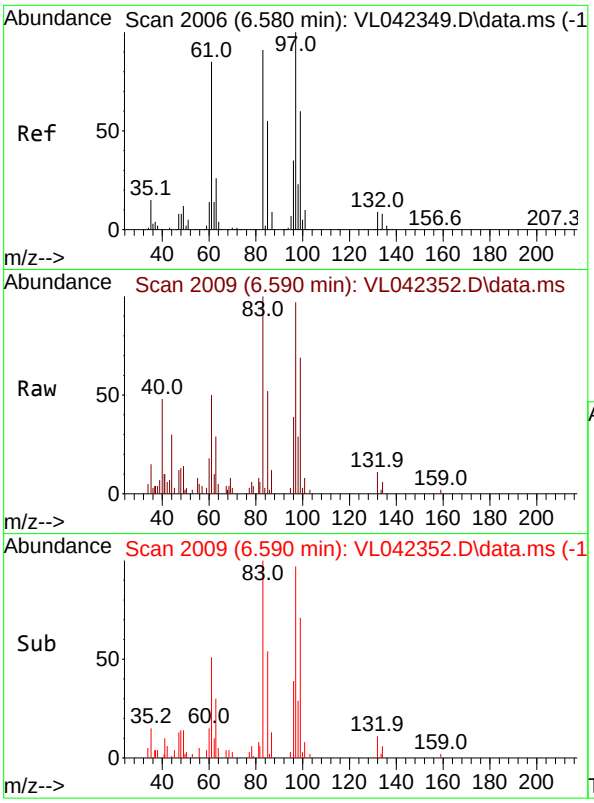


#46
cis-1,3-Dichloropropene
Concen: 0.356 ppbv
RT: 5.596 min Scan# 1702
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

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#



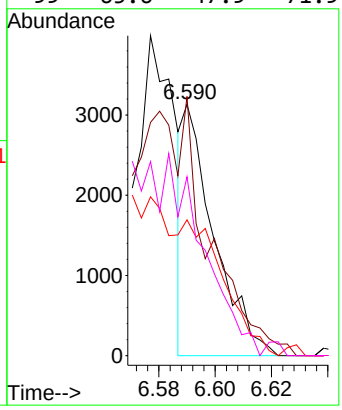


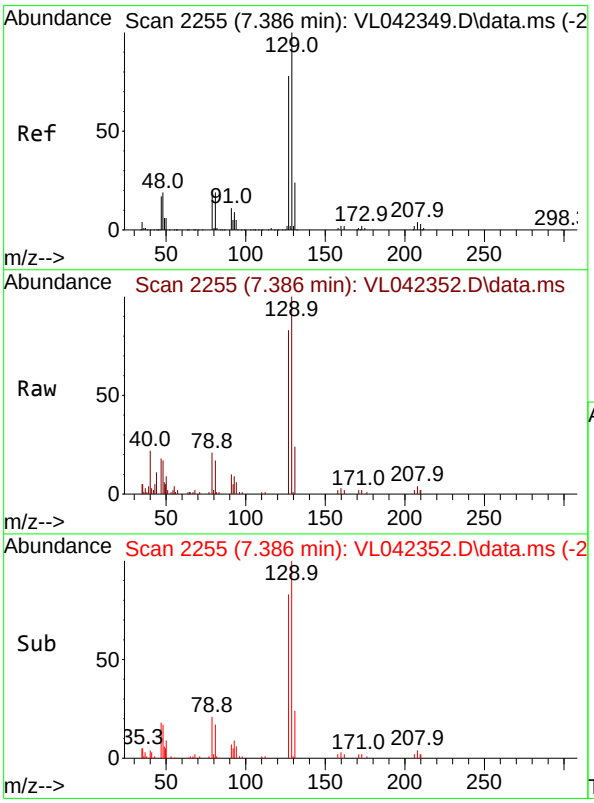
#47
1,1,2-Trichloroethane
Concen: 0.164 ppbv
RT: 6.590 min Scan# 2
Delta R.T. 0.010 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

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

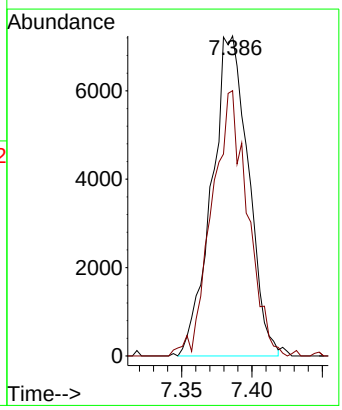


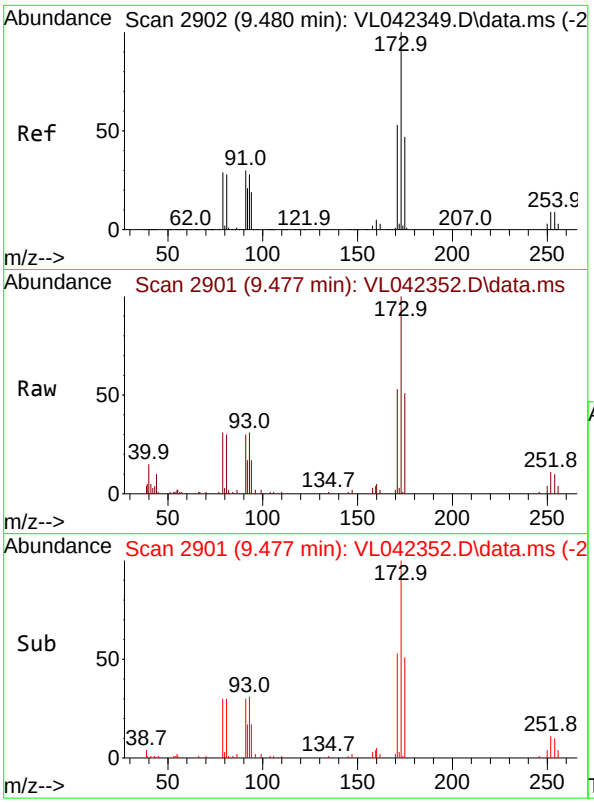


#48
Dibromochloromethane
Concen: 0.514 ppbv
RT: 7.386 min Scan# 2255
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion:129 Resp: 13122

Ion	Ratio	Lower	Upper
129	100		
127	80.9	39.1	117.3



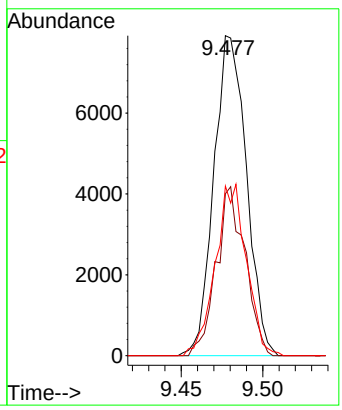


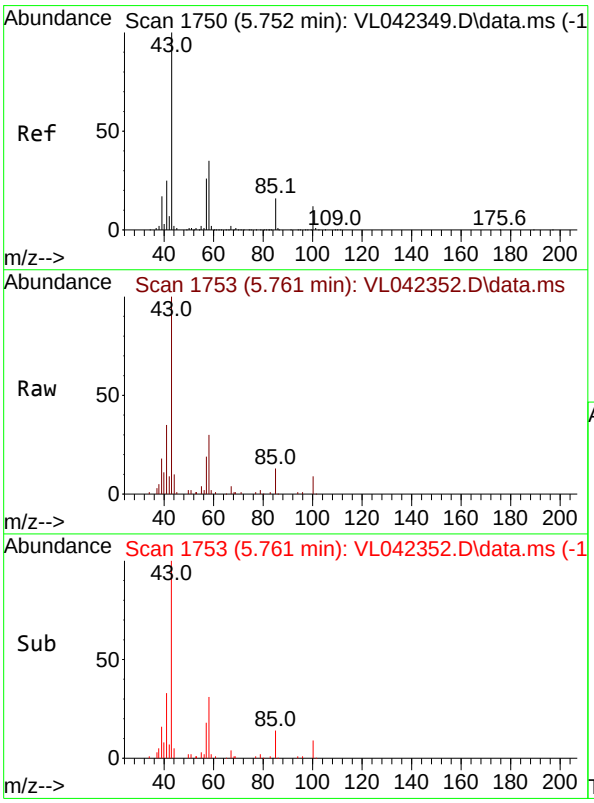
#49
Bromoform
Concen: 0.492 ppbv
RT: 9.477 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

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

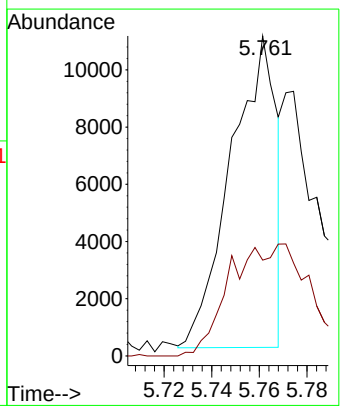


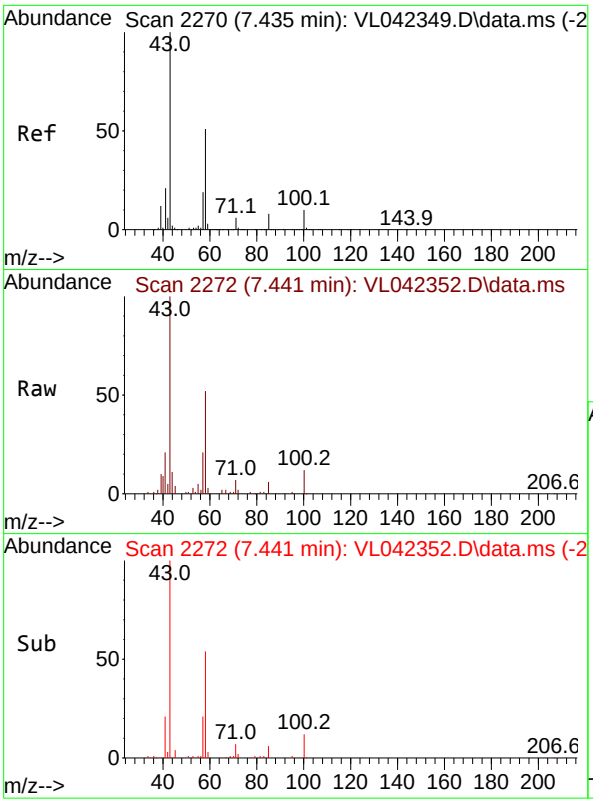


#50
4-Methyl-2-Pentanone
Concen: 0.309 ppbv
RT: 5.761 min Scan# 1753
Delta R.T. 0.010 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 43 Resp: 14380

Ion	Ratio	Lower	Upper
43	100		
58	0.0	28.6	43.0#



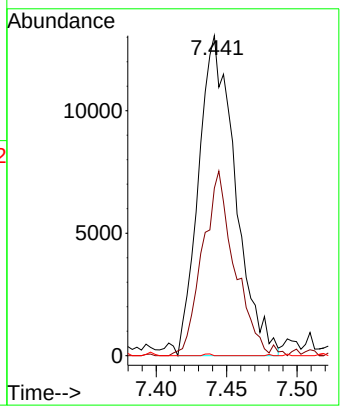


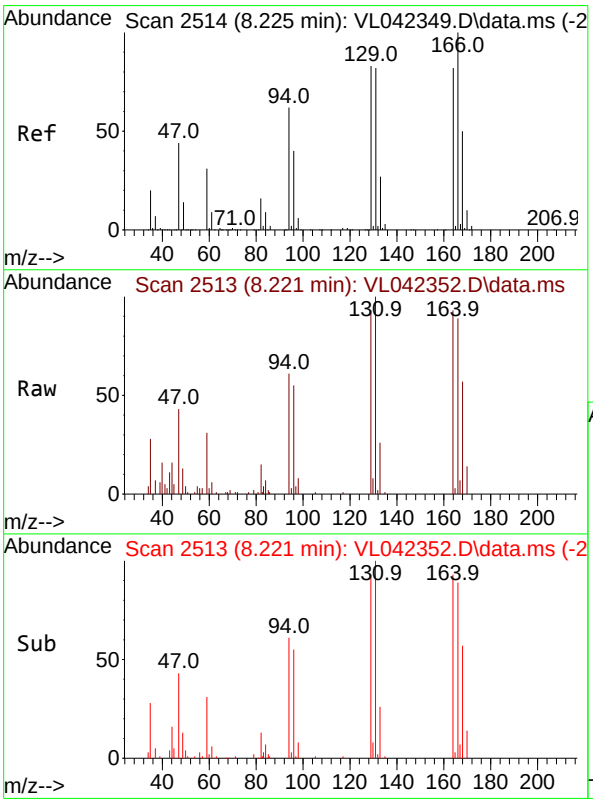
#51
2-Hexanone
Concen: 0.564 ppbv
RT: 7.441 min Scan# 2
Delta R.T. 0.006 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

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

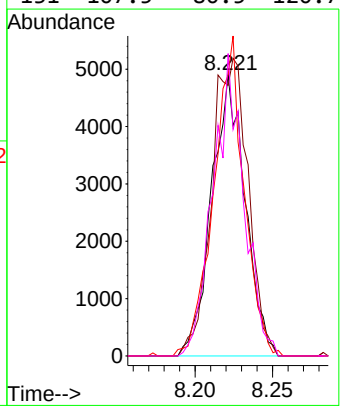


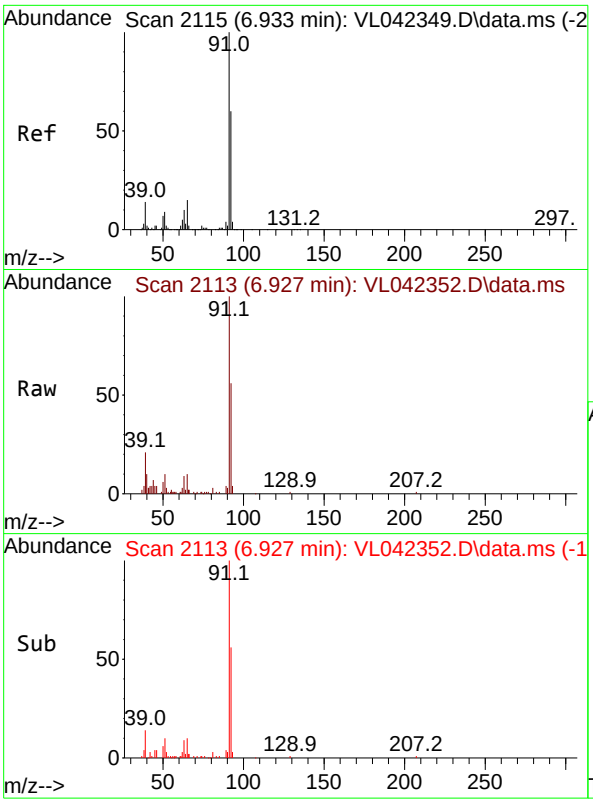


#52
Tetrachloroethene
Concen: 0.503 ppbv
RT: 8.221 min Scan# 2513
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

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



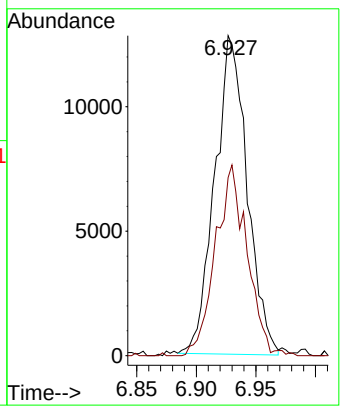


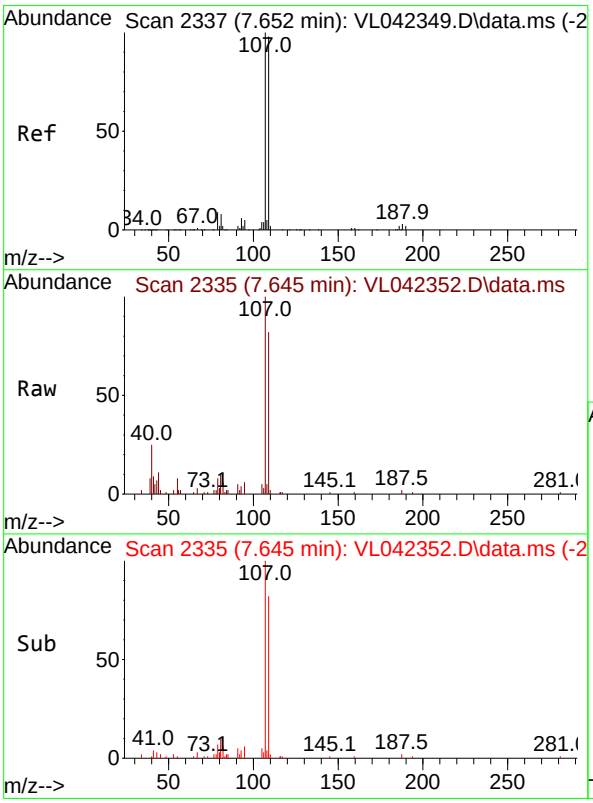
#53
Toluene
Concen: 0.529 ppbv
RT: 6.927 min Scan# 21
Delta R.T. -0.006 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 91 Resp: 24200

Ion	Ratio	Lower	Upper
91	100		
92	58.4	48.2	72.4

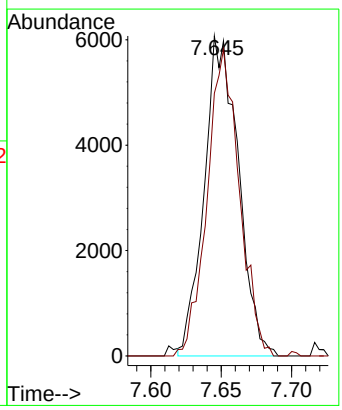


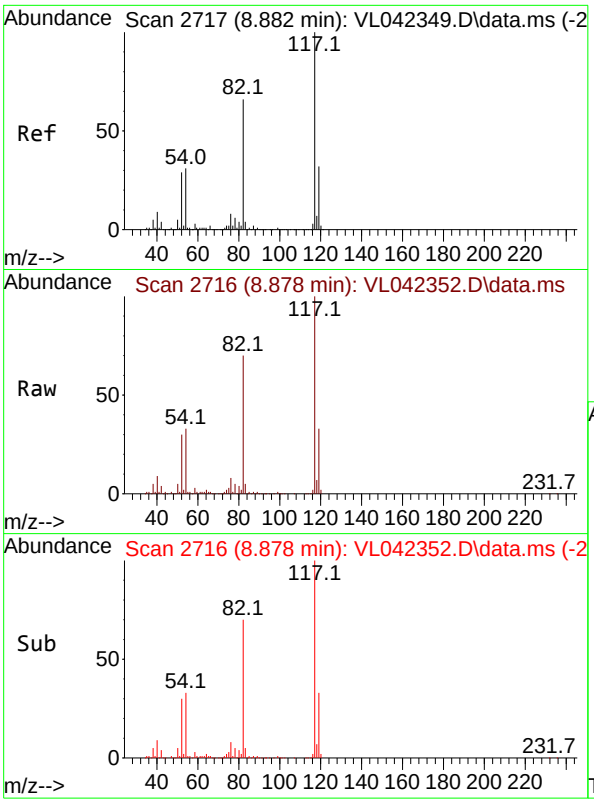


#54
1,2-Dibromoethane
Concen: 0.499 ppbv
RT: 7.645 min Scan# 2335
Delta R.T. -0.006 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion:107 Resp: 10282

Ion	Ratio	Lower	Upper
107	100		
109	82.1	78.2	117.4



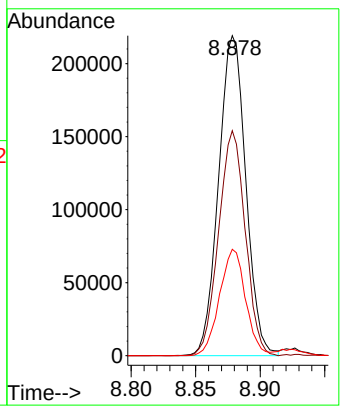


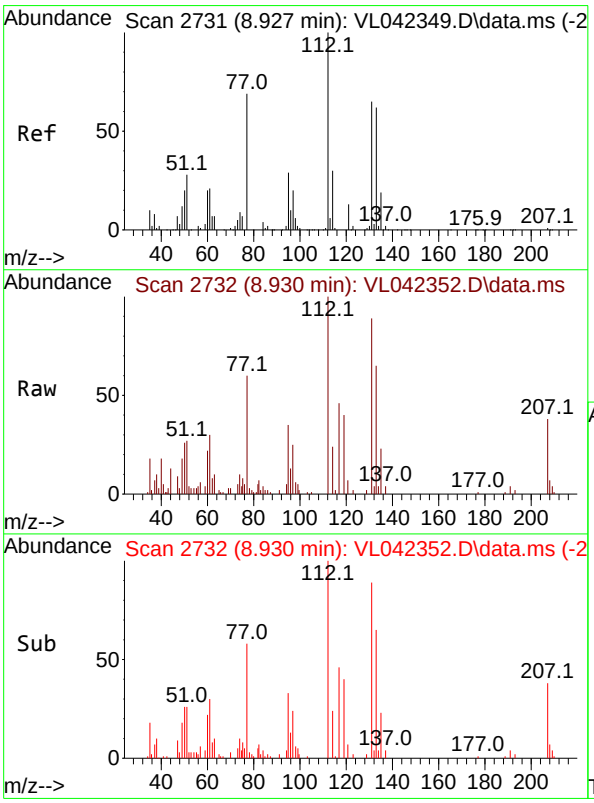
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.878 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

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

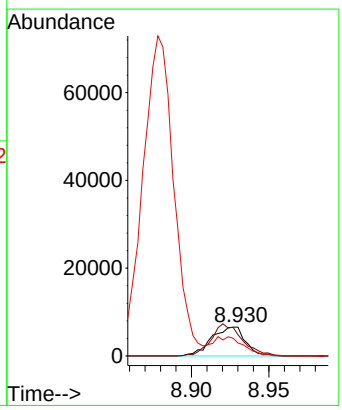


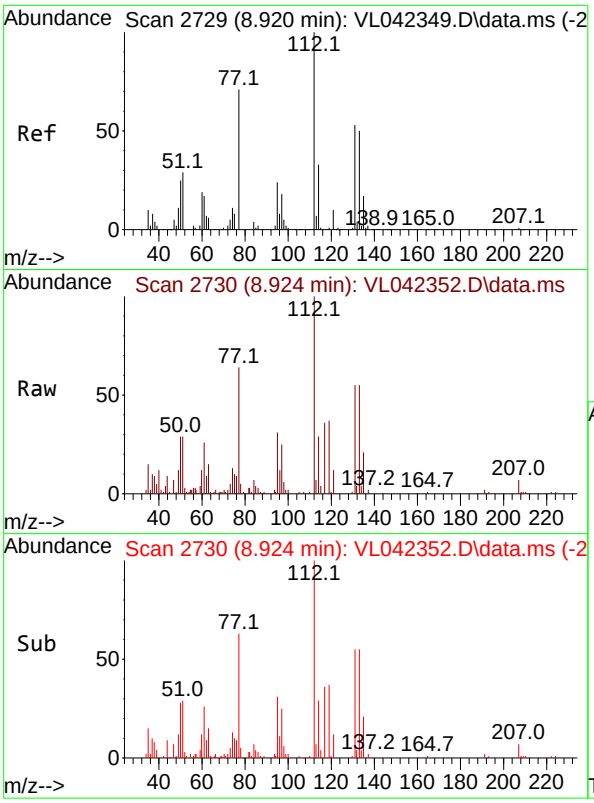


#56
1,1,1,2-Tetrachloroethane
Concen: 0.513 ppbv
RT: 8.930 min Scan# 2732
Delta R.T. 0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

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#



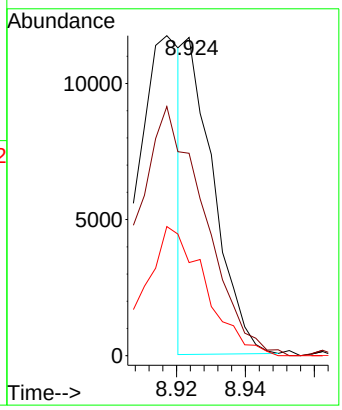


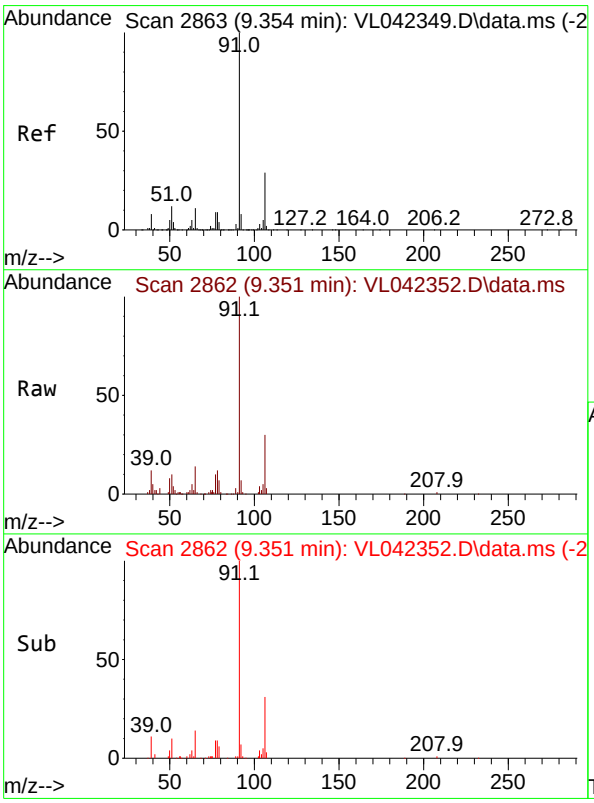
#57
Chlorobenzene
Concen: 0.206 ppbv
RT: 8.924 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

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

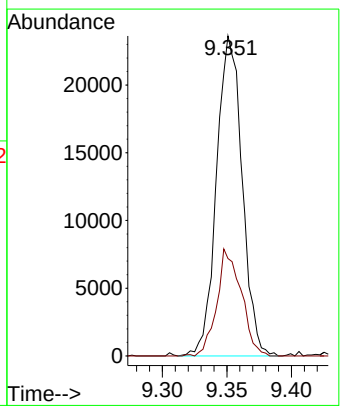


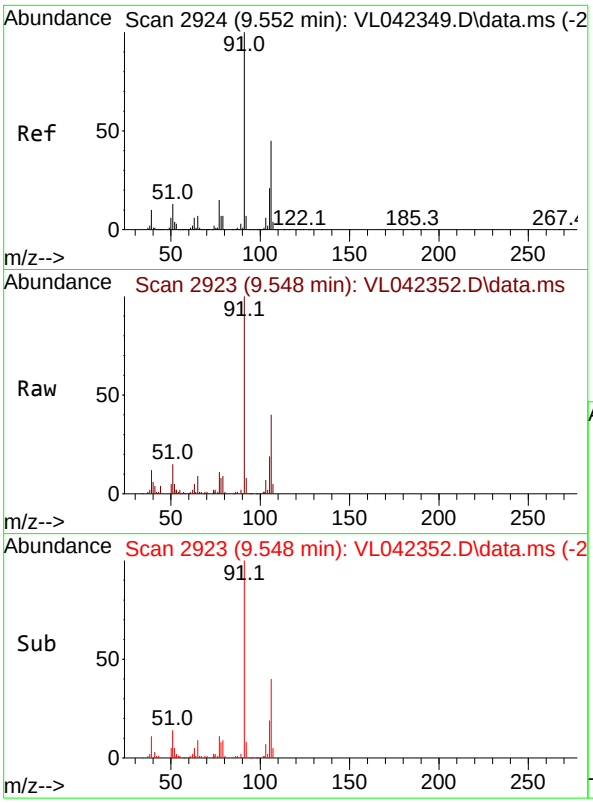


#58
Ethyl Benzene
Concen: 0.512 ppbv
RT: 9.351 min Scan# 2862
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 91 Resp: 32624

Ion	Ratio	Lower	Upper
91	100		
106	30.5	23.0	34.4



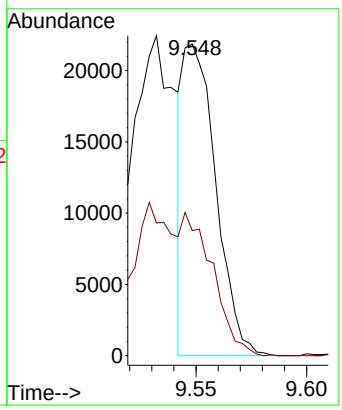


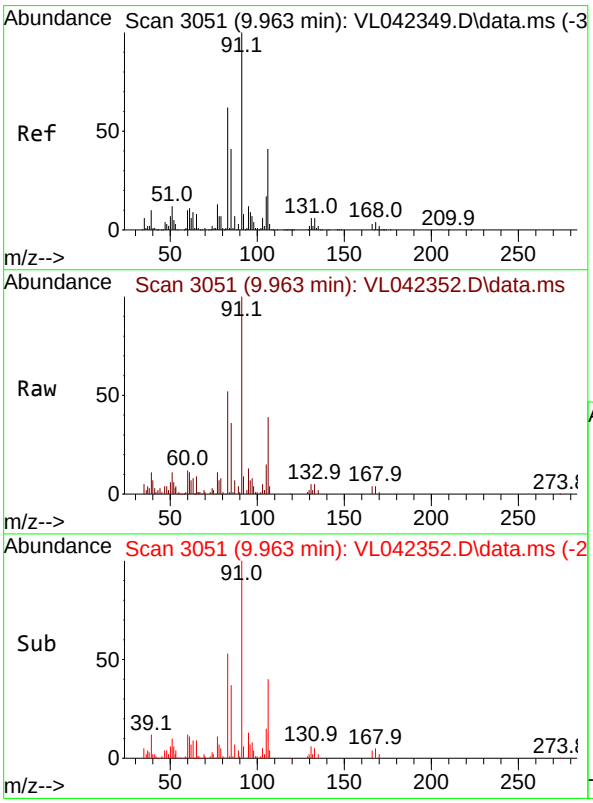
#59
m/p-Xylene
Concen: 0.439 ppbv
RT: 9.548 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 91 Resp: 22598

Ion	Ratio	Lower	Upper
91	100		
106	0.0	35.4	53.2#

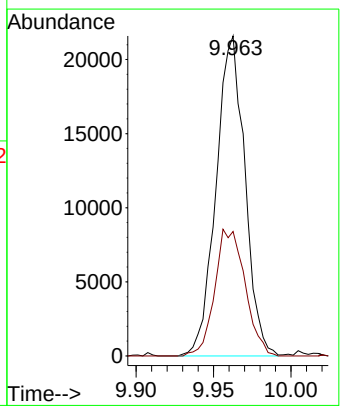


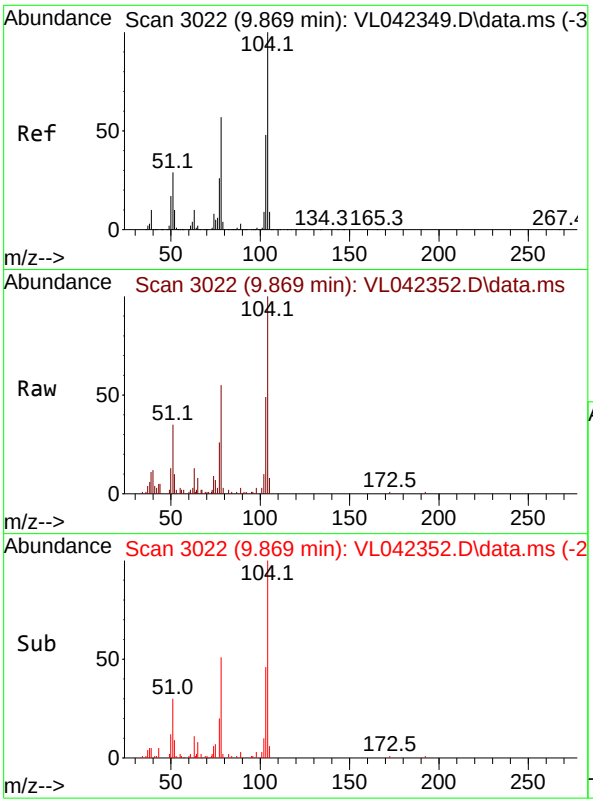


#60
o-Xylene
Concen: 0.541 ppbv
RT: 9.963 min Scan# 3051
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 91 Resp: 27983

Ion	Ratio	Lower	Upper
91	100		
106	41.6	21.1	63.4



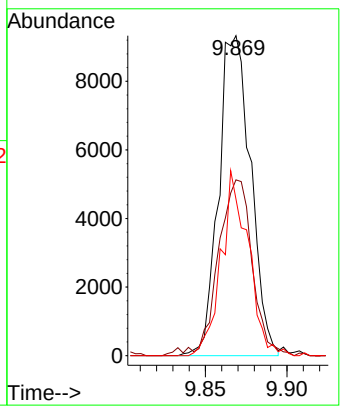


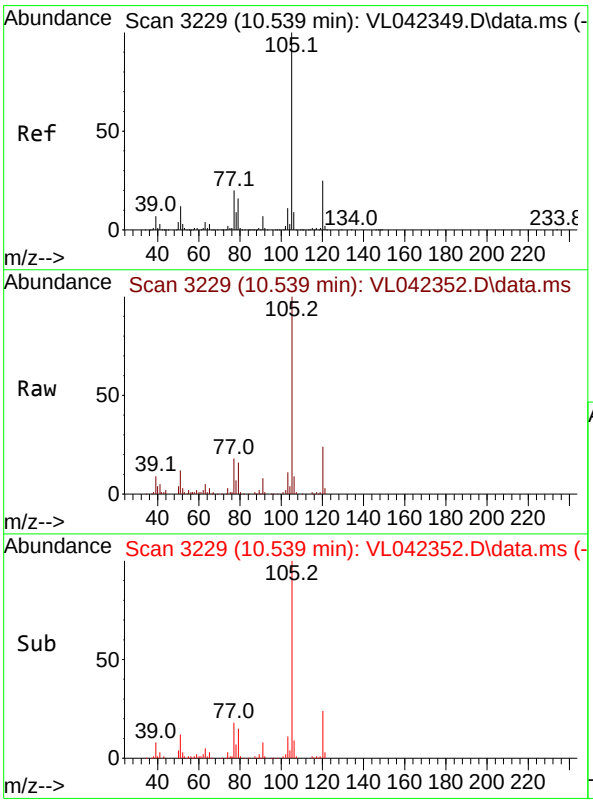
#61
Styrene
Concen: 0.516 ppbv
RT: 9.869 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

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

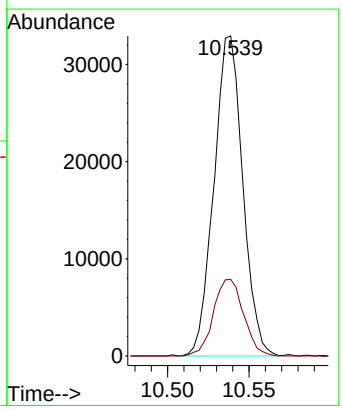


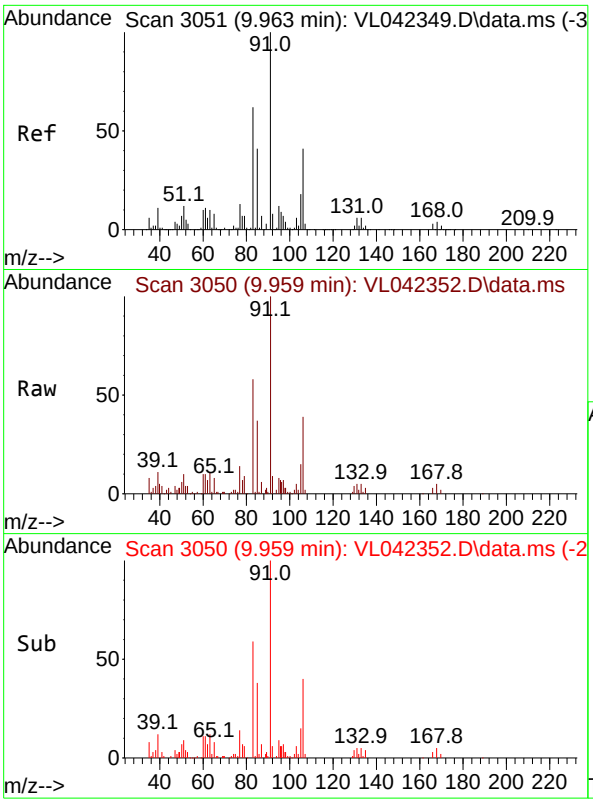


#62
Isopropylbenzene
Concen: 0.533 ppbv
RT: 10.539 min Scan# 3229
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion:105 Resp: 40481

Ion	Ratio	Lower	Upper
105	100		
120	24.9	19.8	29.8



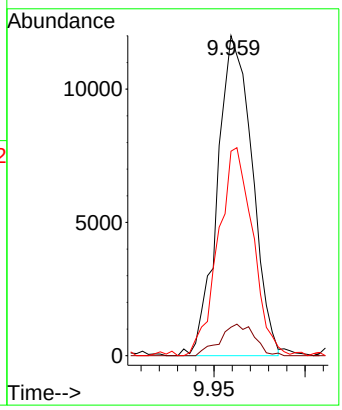


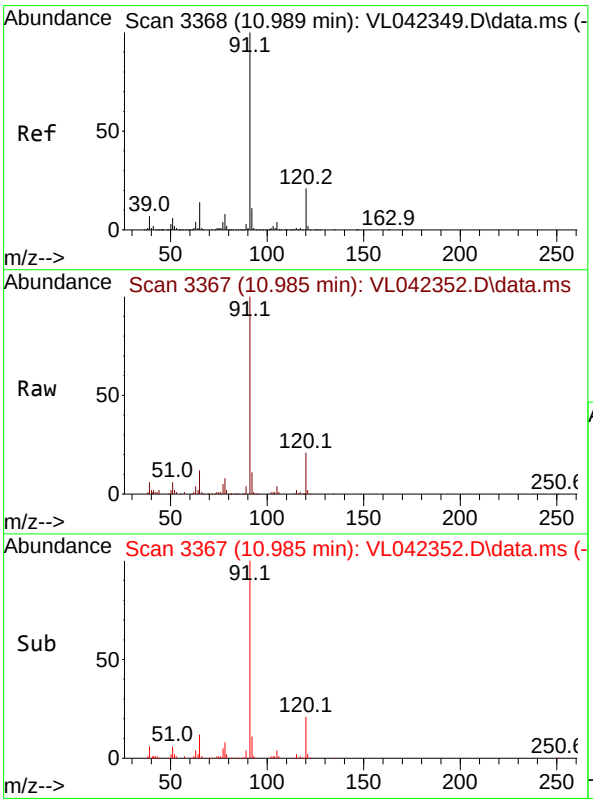
#63
1,1,2,2-Tetrachloroethane
Concen: 0.474 ppbv
RT: 9.959 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

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

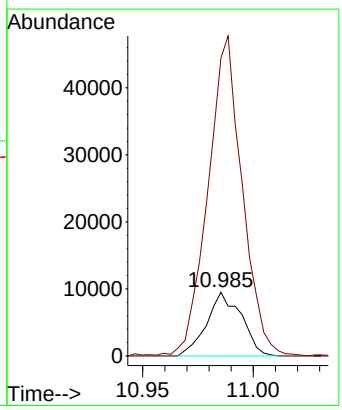


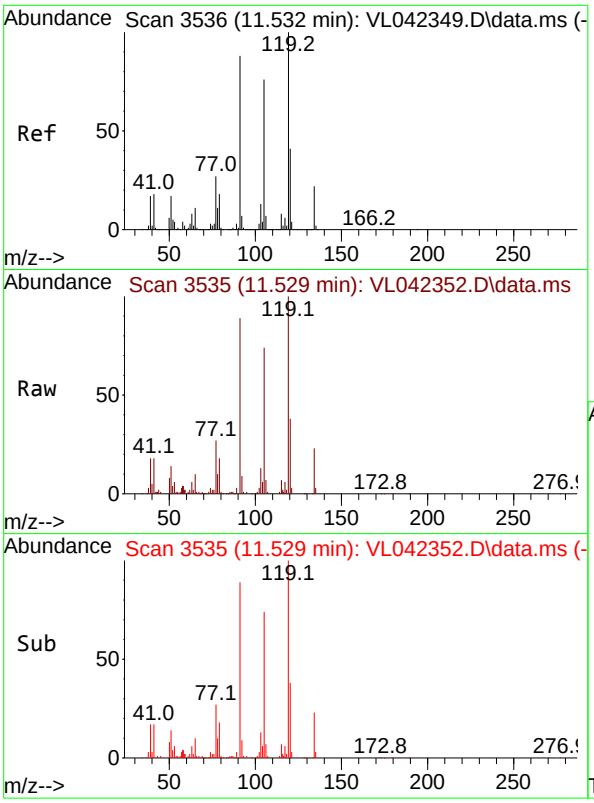


#64
n-propylbenzene
Concen: 0.544 ppbv
RT: 10.985 min Scan# 3367
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion:120 Resp: 10369

Ion	Ratio	Lower	Upper
120	100		
91	499.6	392.4	588.6



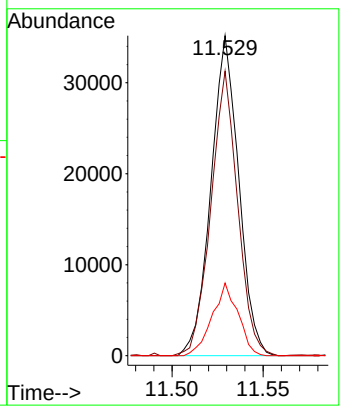


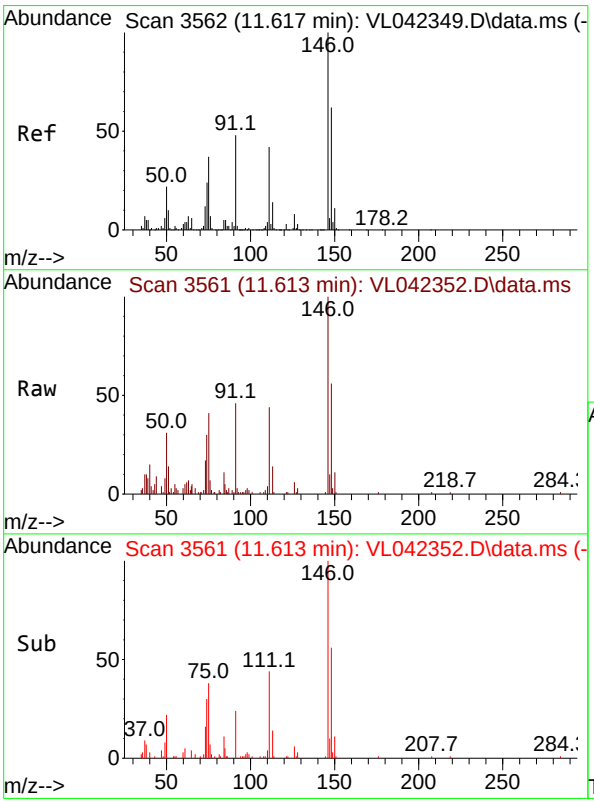
#65
tert-Butylbenzene
Concen: 0.535 ppbv
RT: 11.529 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

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

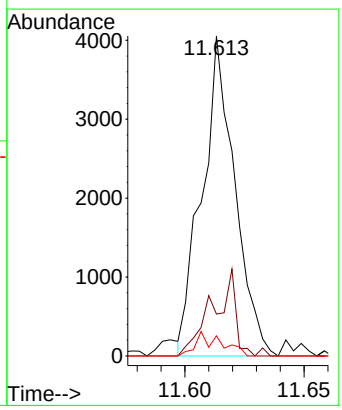


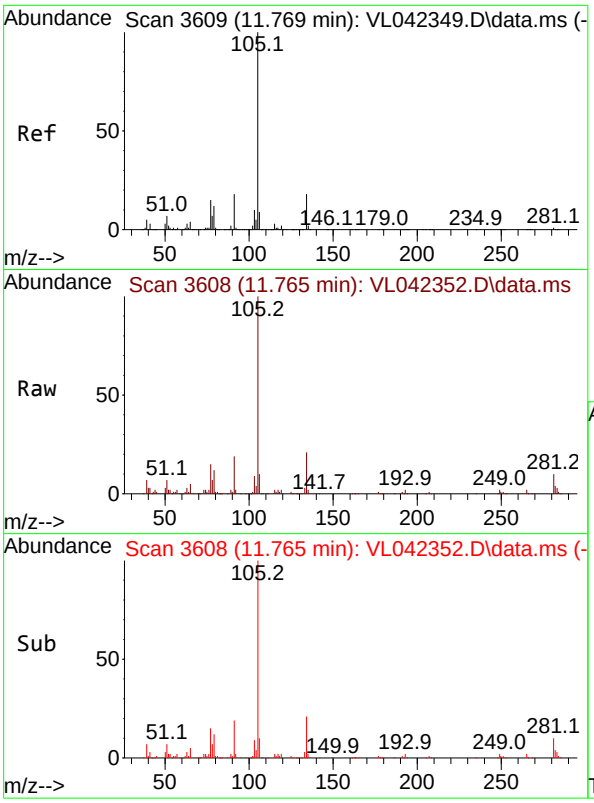


#66
Benzyl Chloride
Concen: 0.506 ppbv
RT: 11.613 min Scan# 3561
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

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



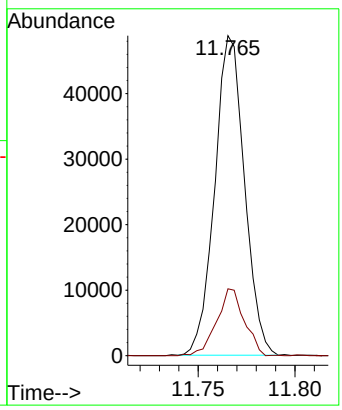


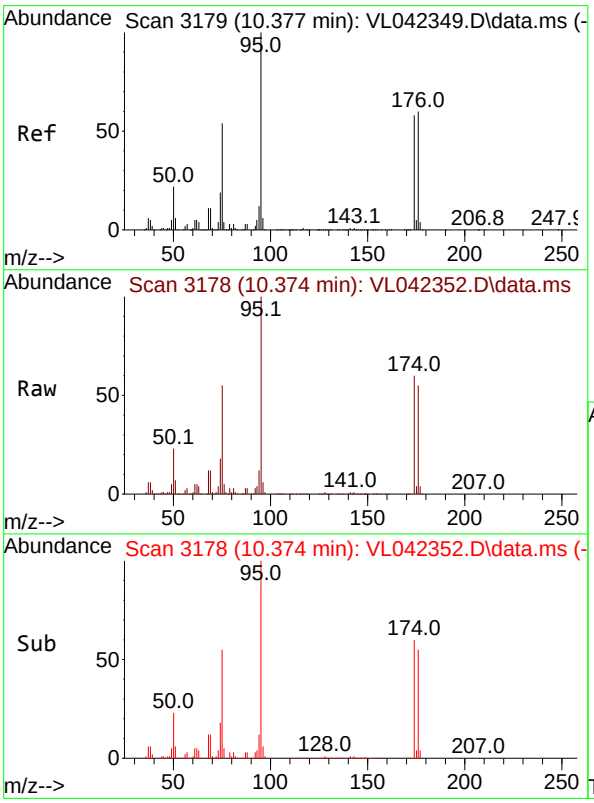
#67
sec-Butylbenzene
Concen: 0.537 ppbv
RT: 11.765 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion:105 Resp: 52139

Ion	Ratio	Lower	Upper
105	100		
134	19.5	14.6	21.8

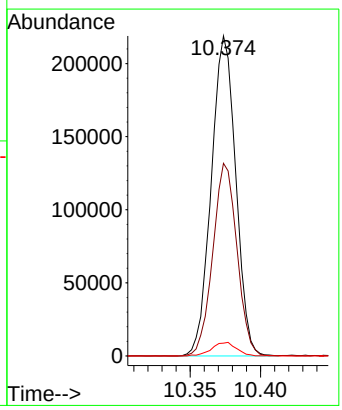


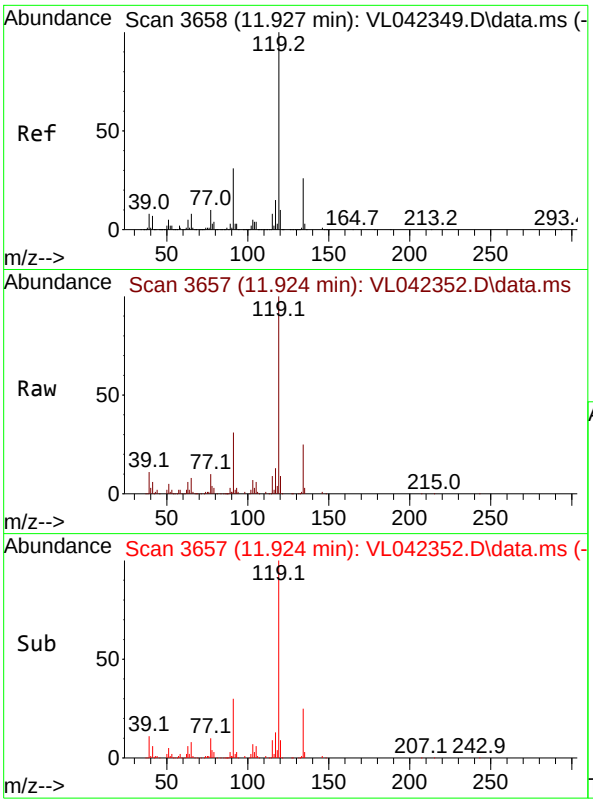


#68
1-Bromo-4-Fluorobenzene
Concen: 10.032 ppbv
RT: 10.374 min Scan# 3178
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

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



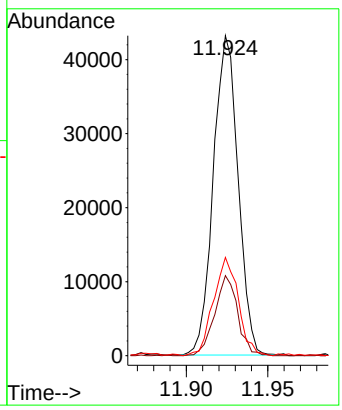


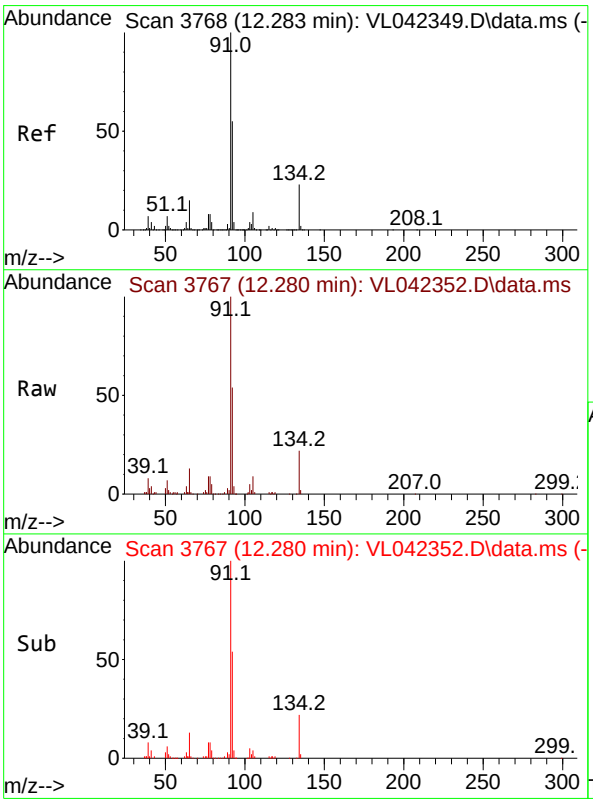
#69
p-Isopropyltoluene
Concen: 0.541 ppbv
RT: 11.924 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

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

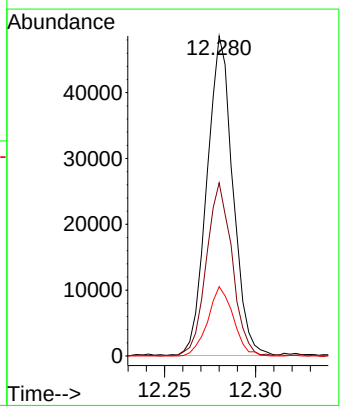


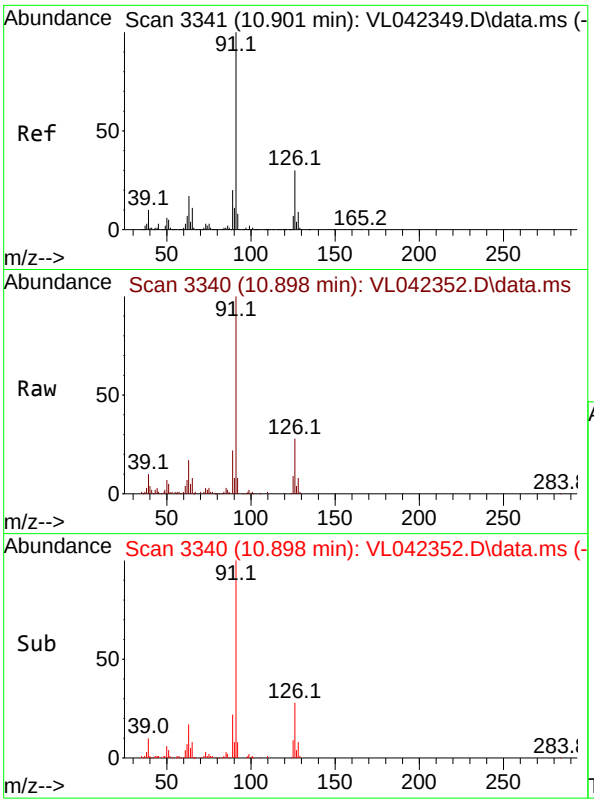


#70
n-Butylbenzene
Concen: 0.547 ppbv
RT: 12.280 min Scan# 3767
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

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



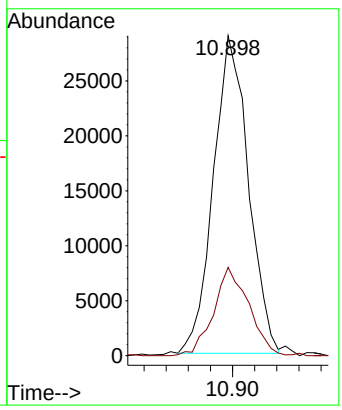


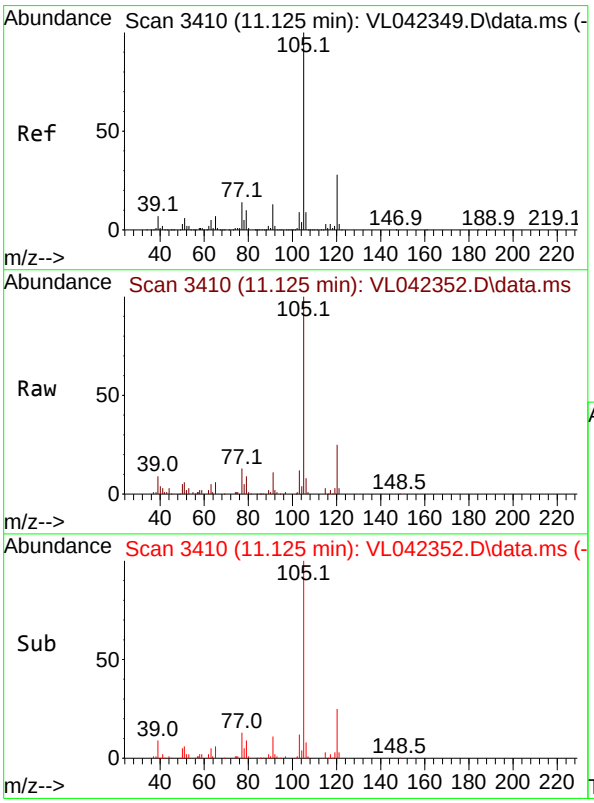
#71
2-Chlorotoluene
Concen: 0.533 ppbv
RT: 10.898 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 91 Resp: 31709

Ion	Ratio	Lower	Upper
91	100		
126	28.3	11.4	45.4

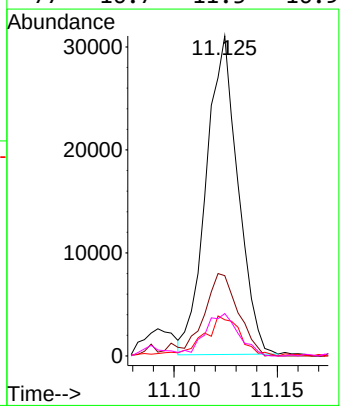


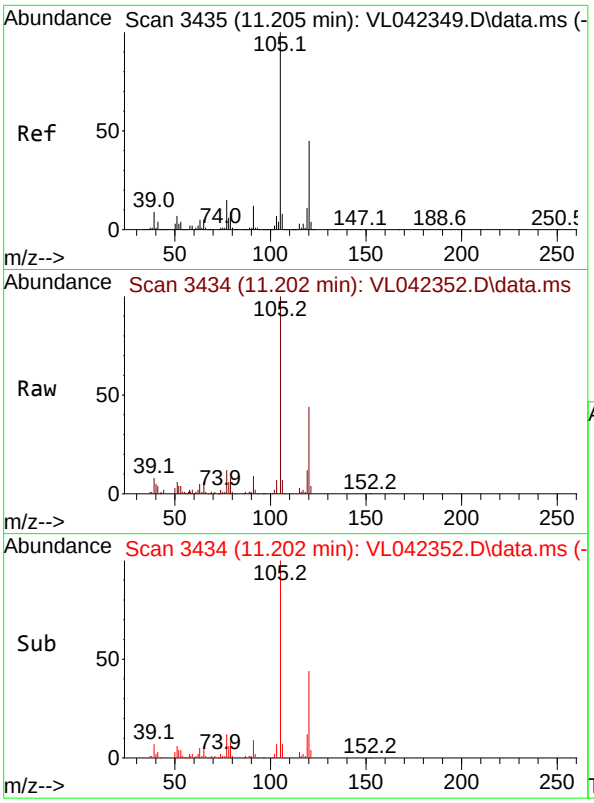


#72
4-Ethyltoluene
Concen: 0.523 ppbv
RT: 11.125 min Scan# 3410
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

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



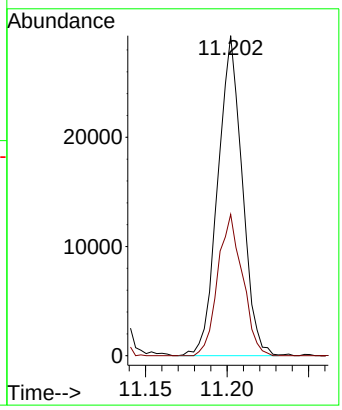


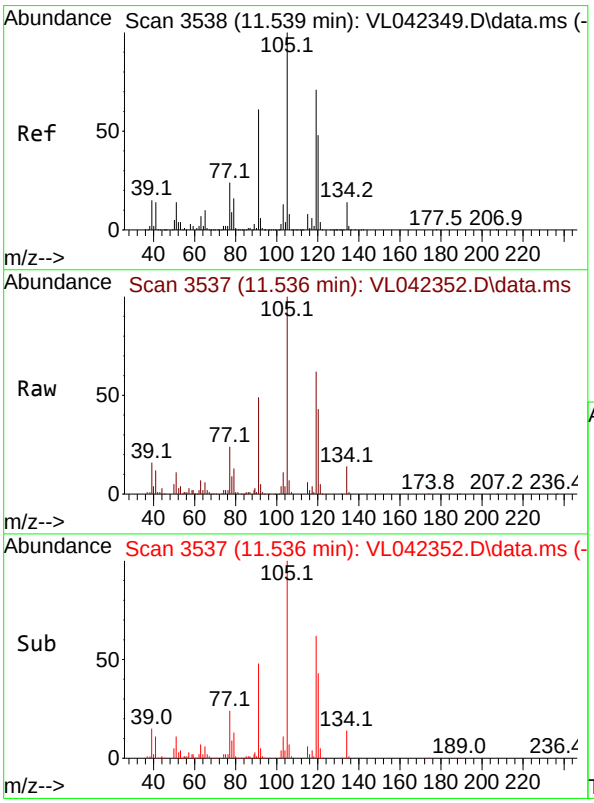
#73
1,3,5-Trimethylbenzene
Concen: 0.546 ppbv
RT: 11.202 min Scan# 34
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion:105 Resp: 30464

Ion	Ratio	Lower	Upper
105	100		
120	44.1	35.6	53.4

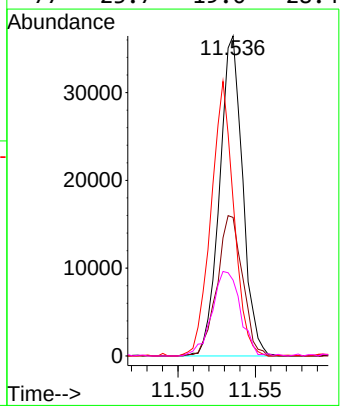


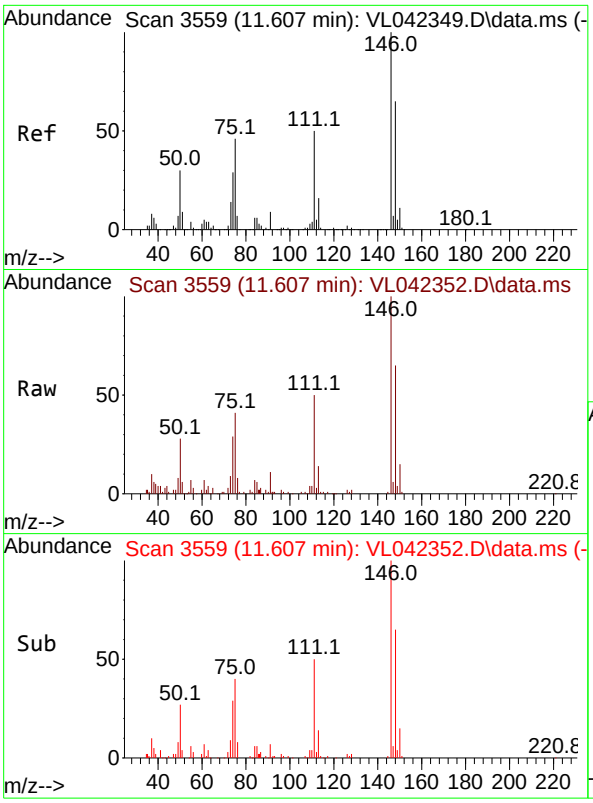


#74
1,2,4-Trimethylbenzene
Concen: 0.579 ppbv
RT: 11.536 min Scan# 3537
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

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



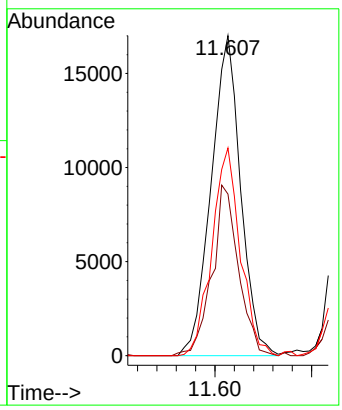


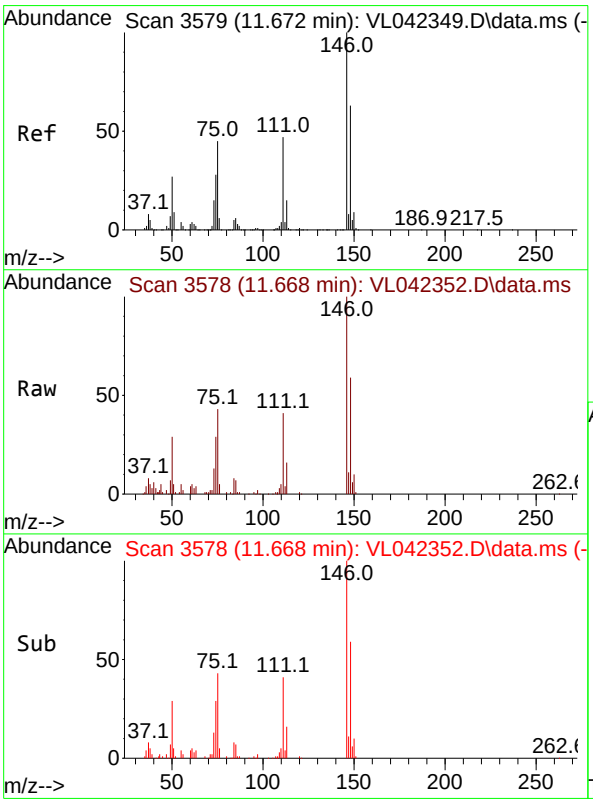
#75
1,3-Dichlorobenzene
Concen: 0.531 ppbv
RT: 11.607 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

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

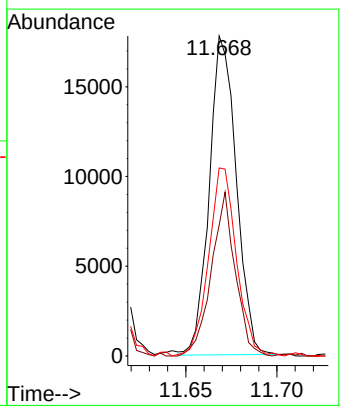


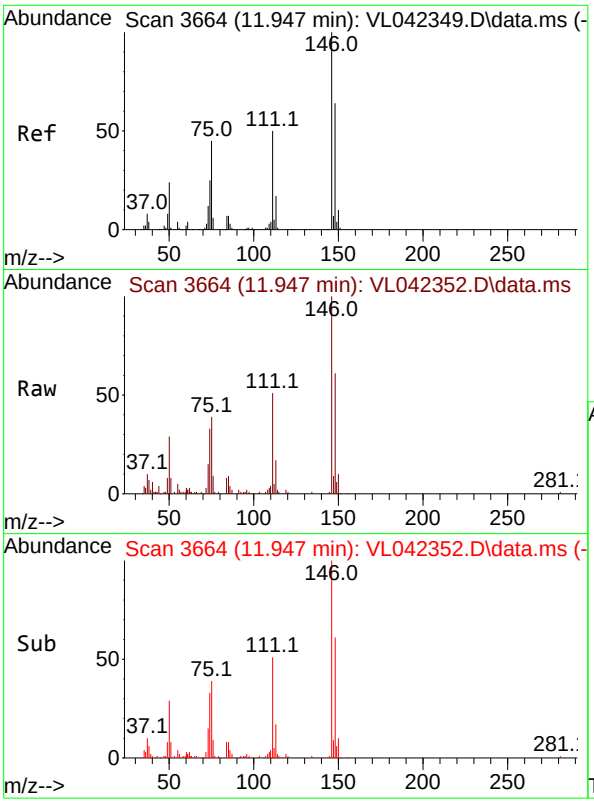


#76
1,4-Dichlorobenzene
Concen: 0.537 ppbv
RT: 11.668 min Scan# 3578
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

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



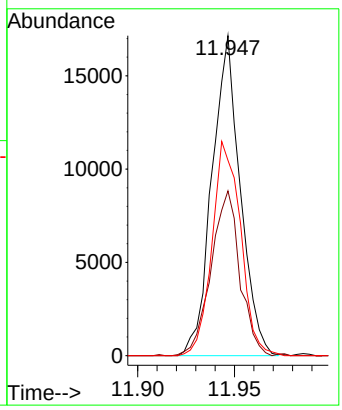


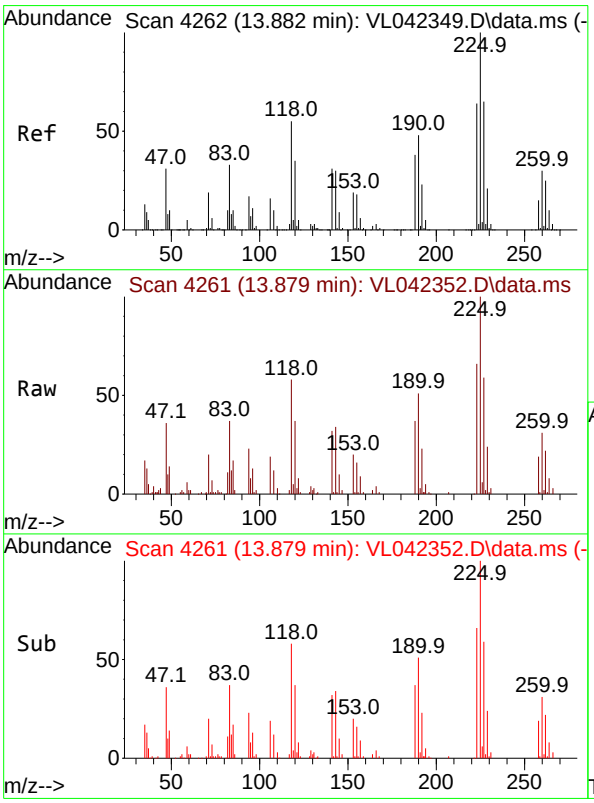
#77
1,2-Dichlorobenzene
Concen: 0.530 ppbv
RT: 11.947 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

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

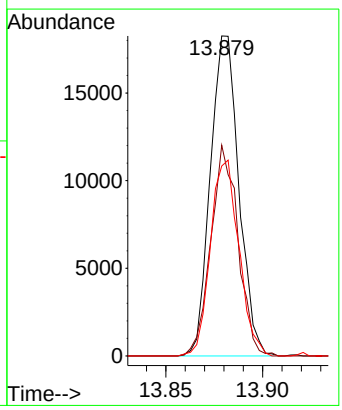


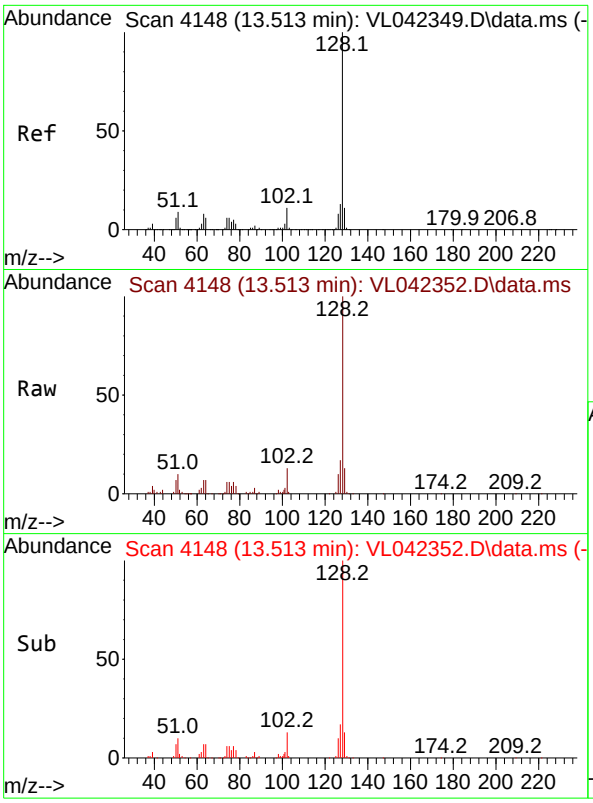


#78
Hexachloro-1,3-Butadiene
Concen: 0.562 ppbv
RT: 13.879 min Scan# 4261
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

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



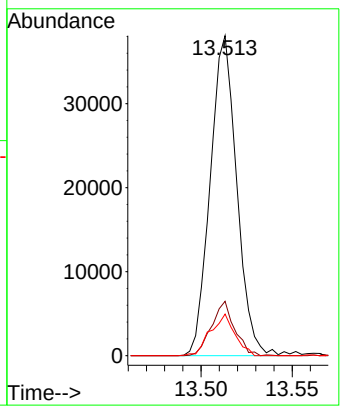


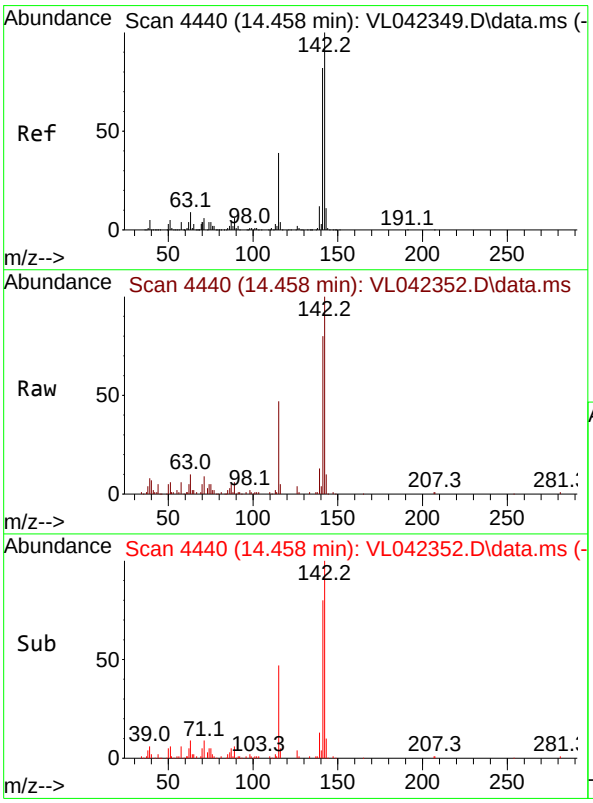
#79
Naphthalene
Concen: 0.494 ppbv
RT: 13.513 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

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#

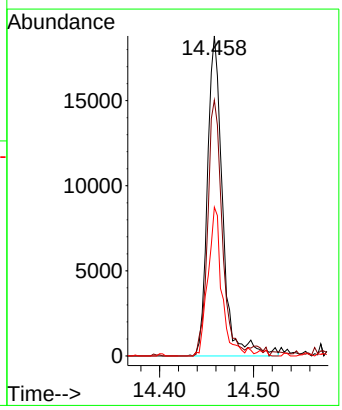


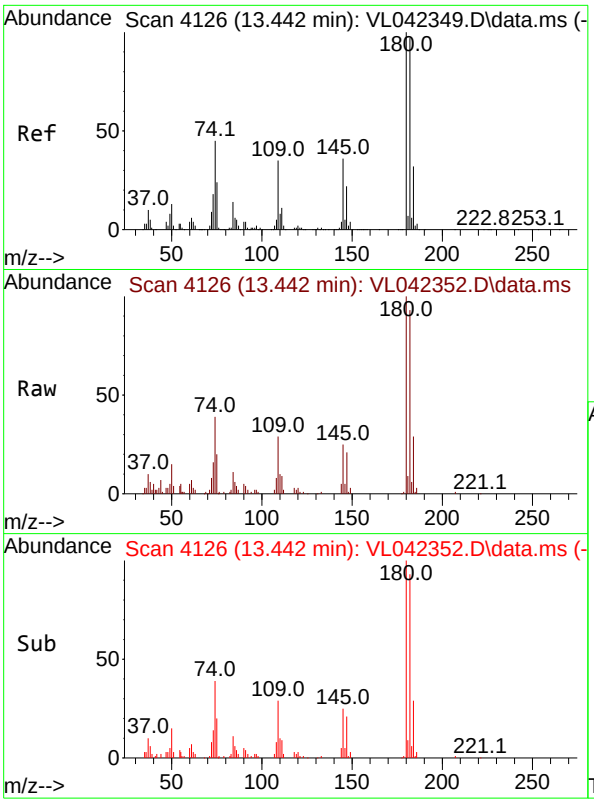


#80
Naphthalene,2-methyl-
Concen: 0.475 ppbv
RT: 14.458 min Scan# 4440
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

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



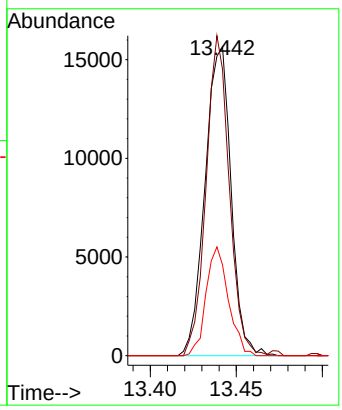


#81
1,2,4-Trichlorobenzene
Concen: 0.493 ppbv
RT: 13.442 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

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

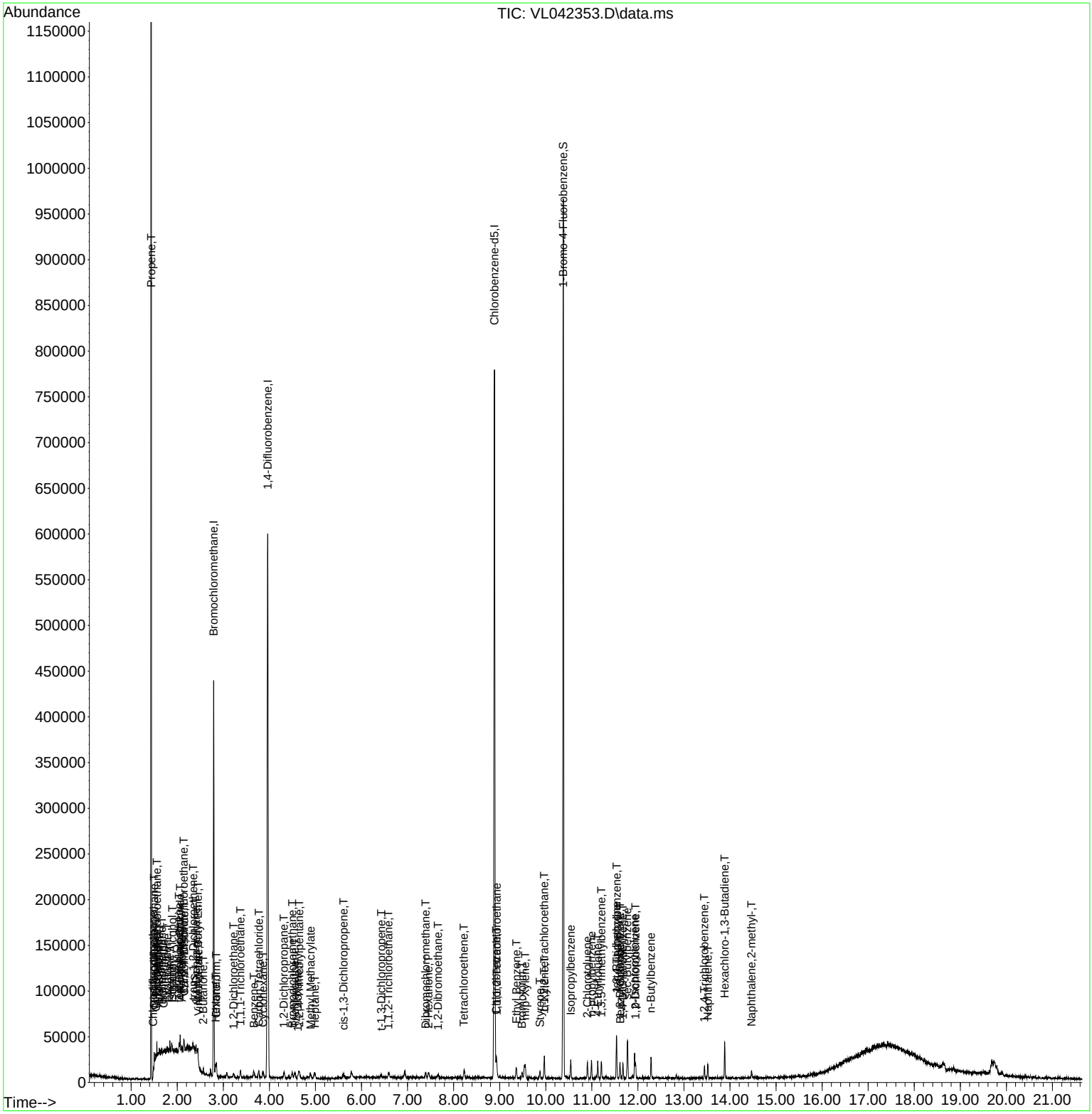
(#) = qualifier out of range (m) = manual integration (+) = signals summed

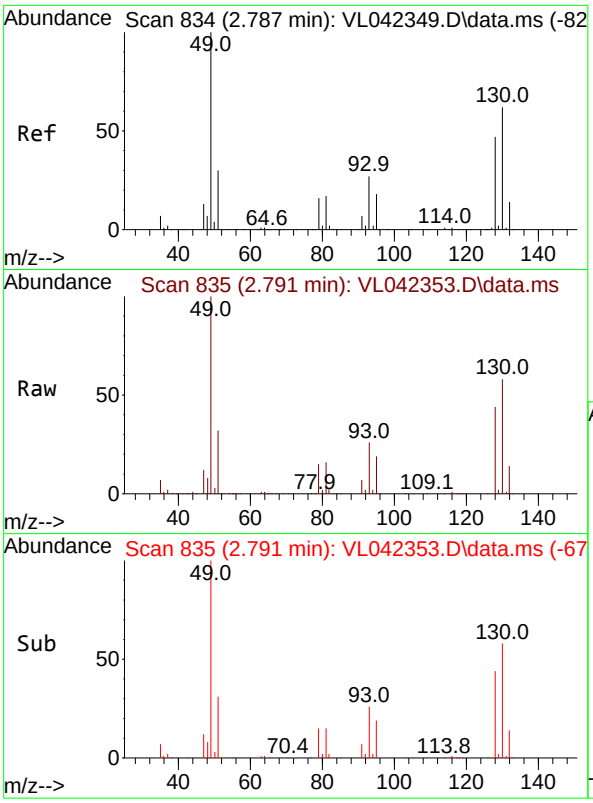
Quantitation Report (Not Reviewed)

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



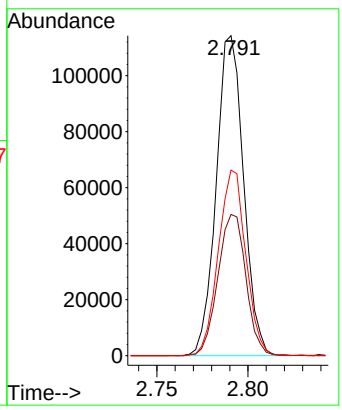


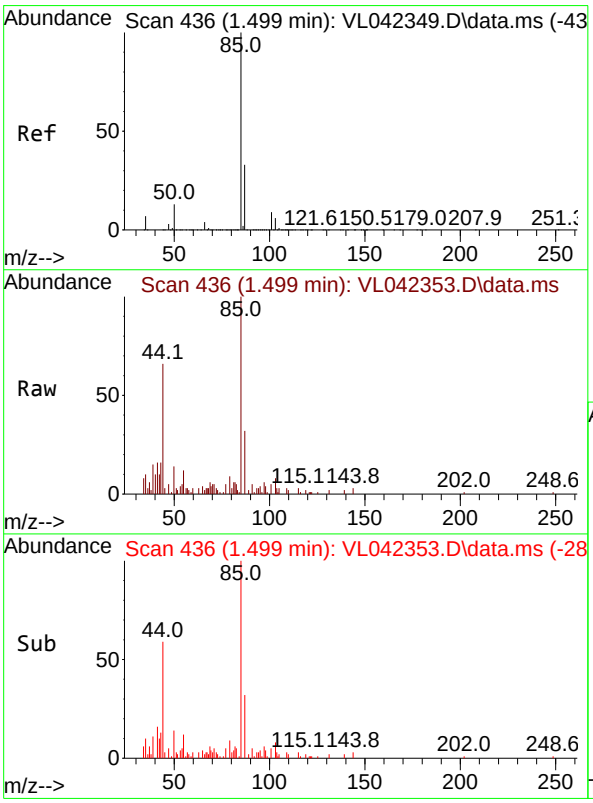
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.791 min Scan# 8
Delta R.T. 0.004 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

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

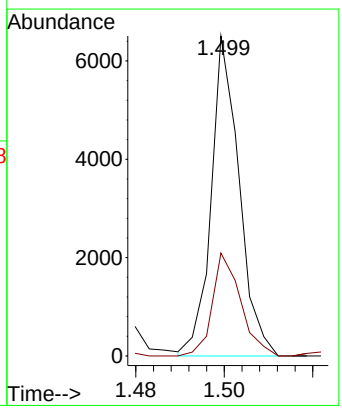


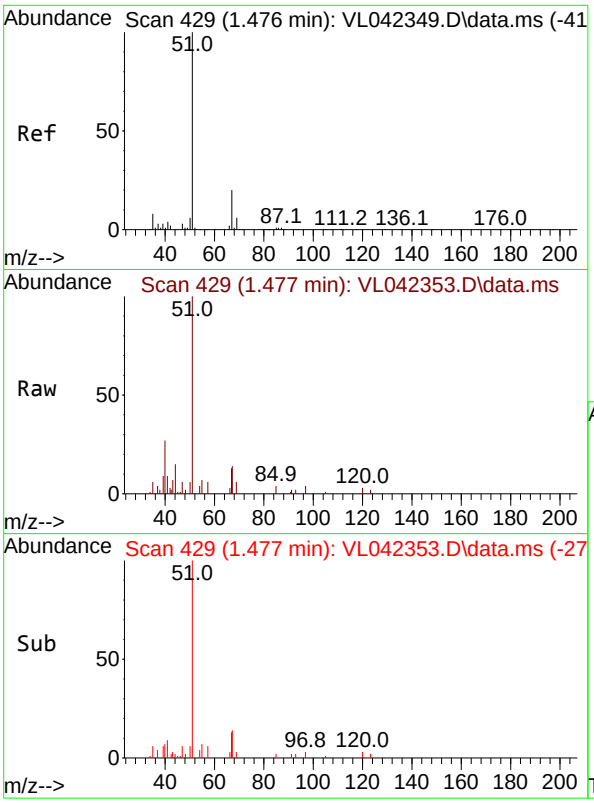


#2
Dichlorodifluoromethane
Concen: 0.135 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.000 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Tgt Ion: 85 Resp: 2857

Ion	Ratio	Lower	Upper
85	100		
87	32.2	26.6	39.8



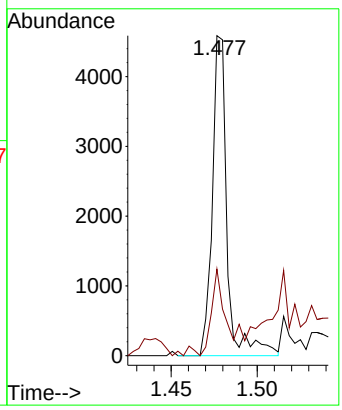


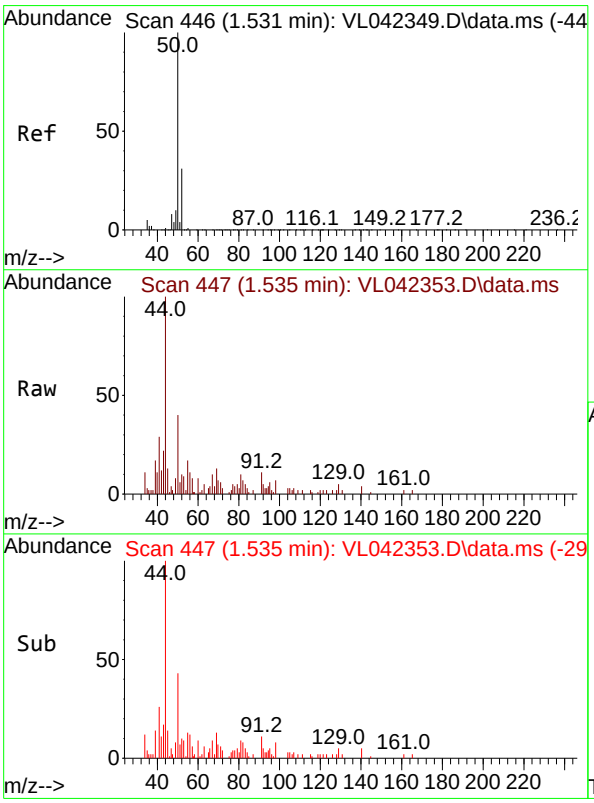
#3
Chlorodifluoromethane
Concen: 0.135 ppbv
RT: 1.477 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion: 51 Resp: 2706

Ion	Ratio	Lower	Upper
51	100		
67	24.5	16.2	24.4#

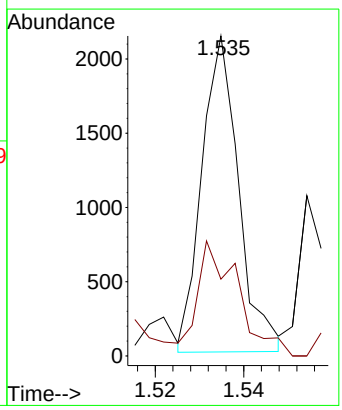


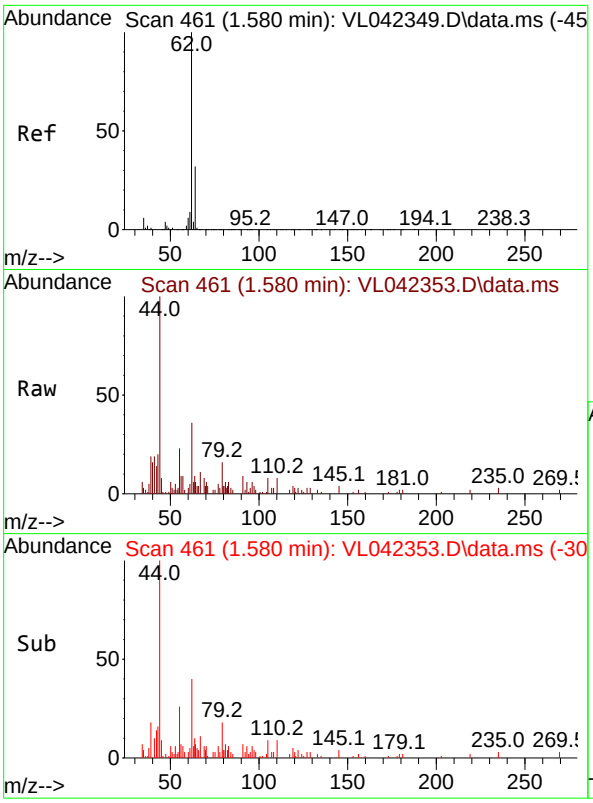


#4
Chloromethane
Concen: 0.147 ppbv
RT: 1.535 min Scan# 447
Delta R.T. 0.004 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Tgt Ion: 50 Resp: 1225

Ion	Ratio	Lower	Upper
50	100		
52	22.9	24.7	37.1#



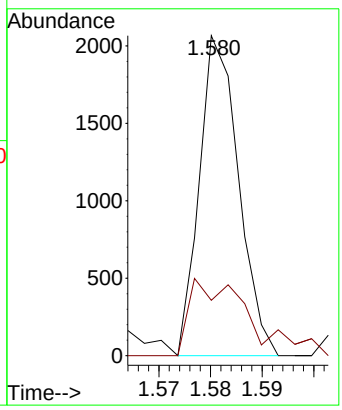


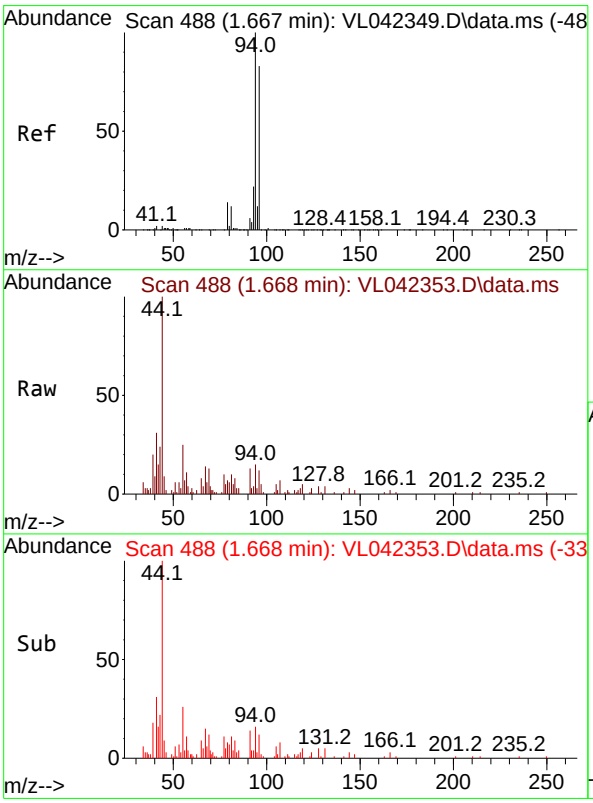
#5
Vinyl Chloride
Concen: 0.120 ppbv
RT: 1.580 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion: 62 Resp: 1088

Ion	Ratio	Lower	Upper
62	100		
64	17.3	25.4	38.0#

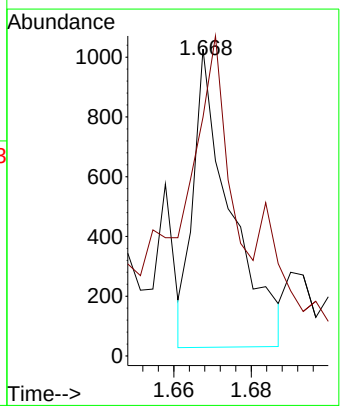


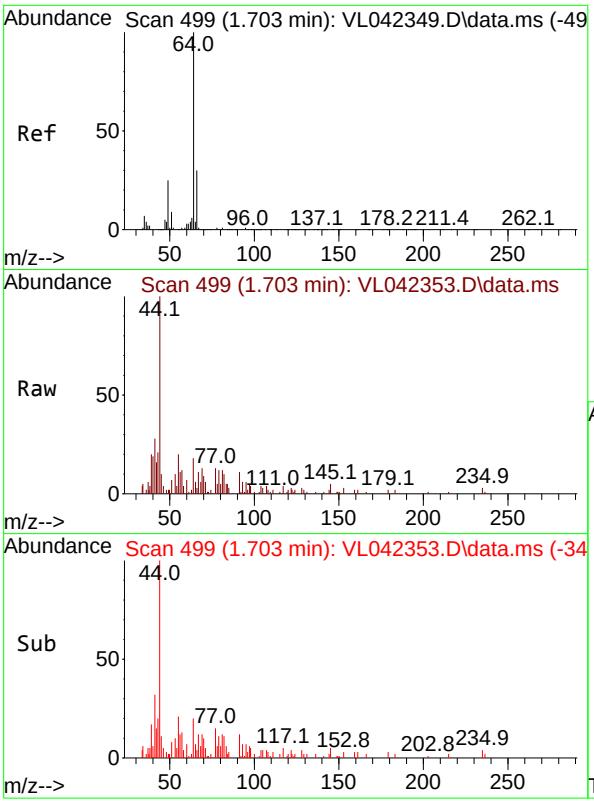


#6
Bromomethane
Concen: 0.168 ppbv
RT: 1.668 min Scan# 488
Delta R.T. 0.000 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Tgt Ion: 94 Resp: 663

Ion	Ratio	Lower	Upper
94	100		
96	57.5	66.2	99.2#



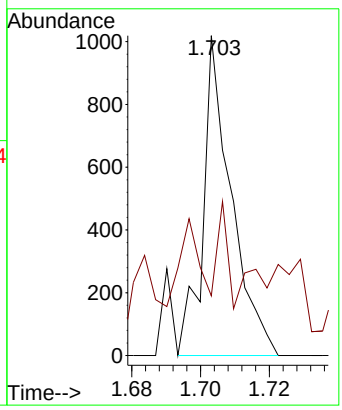


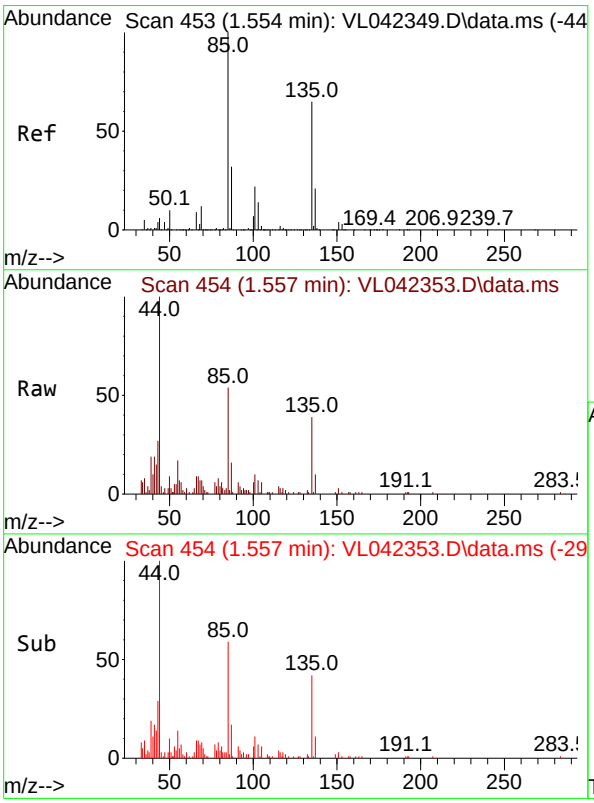
#7
Chloroethane
Concen: 0.176 ppbv
RT: 1.703 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion: 64 Resp: 579

Ion	Ratio	Lower	Upper
64	100		
66	18.6	24.6	37.0#

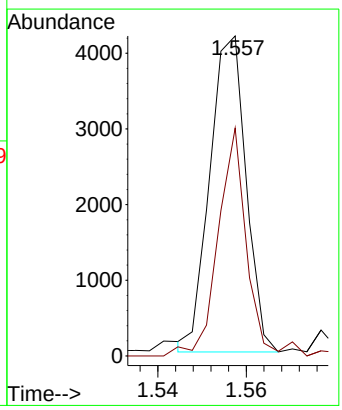


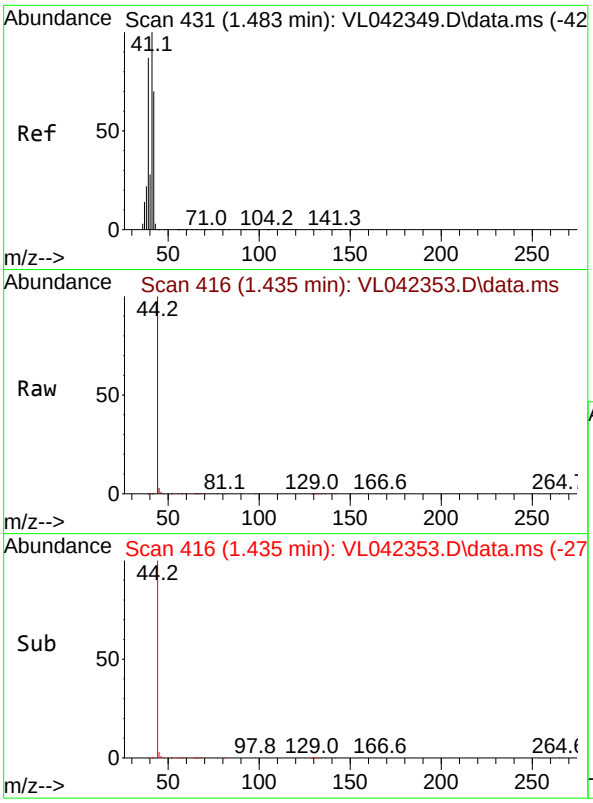


#8
Dichlorotetrafluoroethane
Concen: 0.131 ppbv
RT: 1.557 min Scan# 454
Delta R.T. 0.004 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Tgt Ion: 85 Resp: 2377

Ion	Ratio	Lower	Upper
85	100		
135	60.3	52.2	78.2



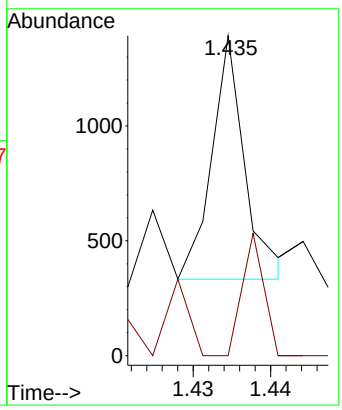


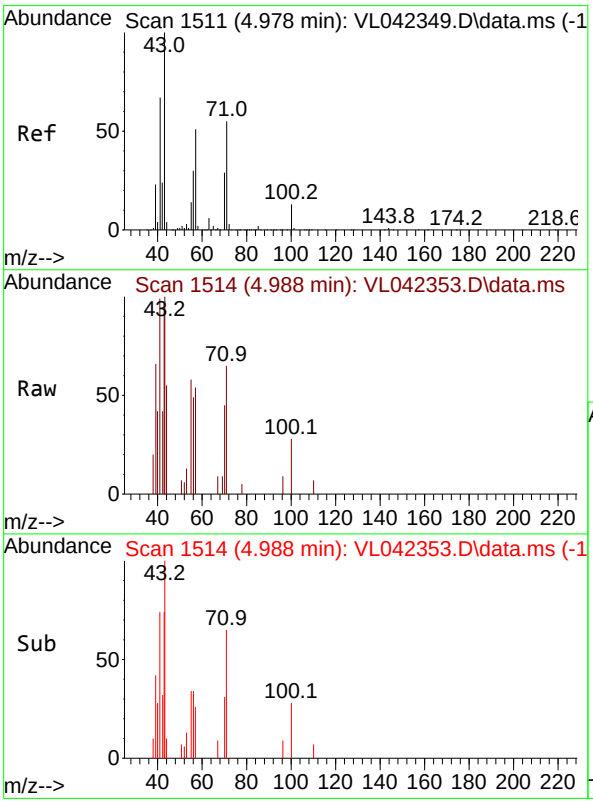
#9
Propene
Concen: 0.034 ppbv
RT: 1.435 min Scan# 4
Delta R.T. -0.048 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion: 41 Resp: 314

Ion	Ratio	Lower	Upper
41	100		
42	78.7	56.2	84.4

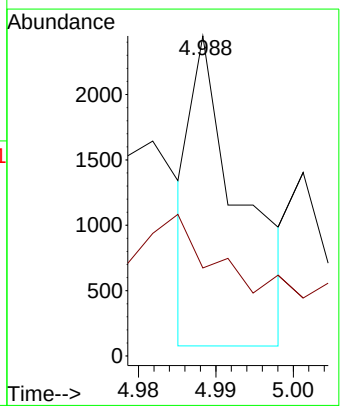


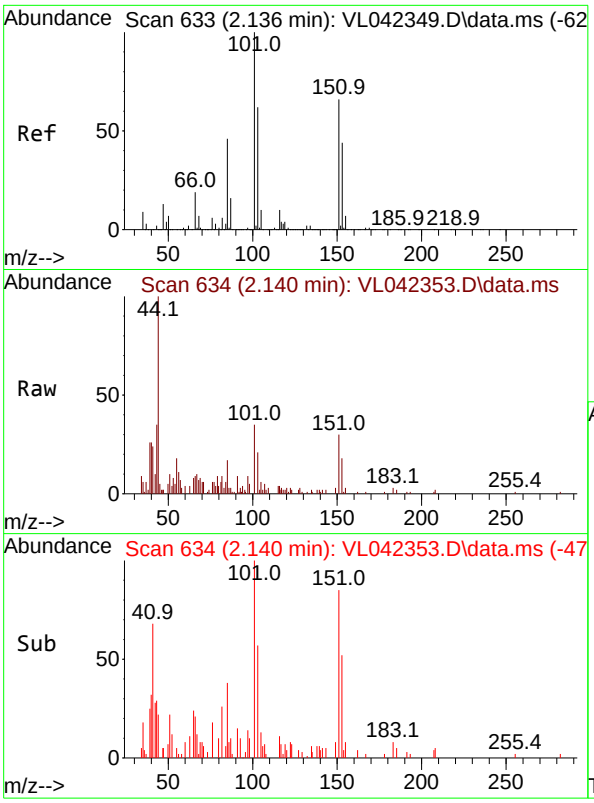


#10
Heptane
Concen: 0.043 ppbv
RT: 4.988 min Scan# 1514
Delta R.T. 0.010 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Tgt Ion: 43 Resp: 1056

Ion	Ratio	Lower	Upper
43	100		
57	220.7	39.9	59.9#



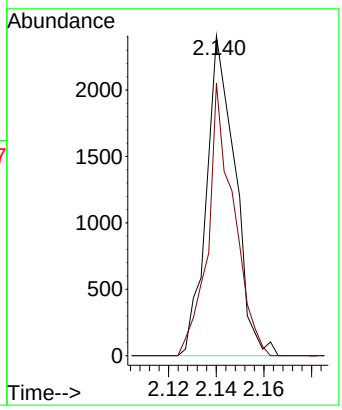


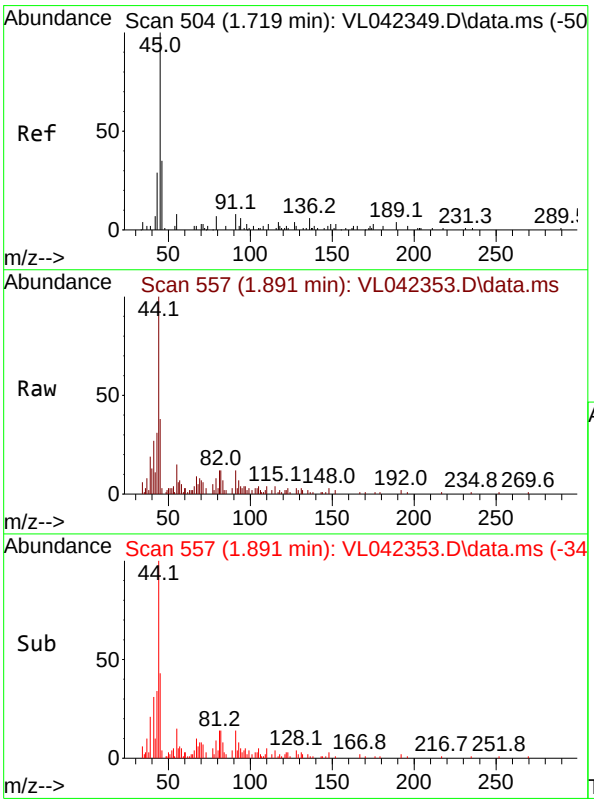
#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.123 ppbv
RT: 2.140 min Scan# 6
Delta R.T. 0.004 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion:101 Resp: 2017

Ion	Ratio	Lower	Upper
101	100		
151	76.2	57.0	85.6

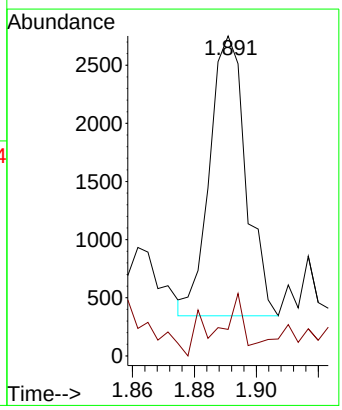


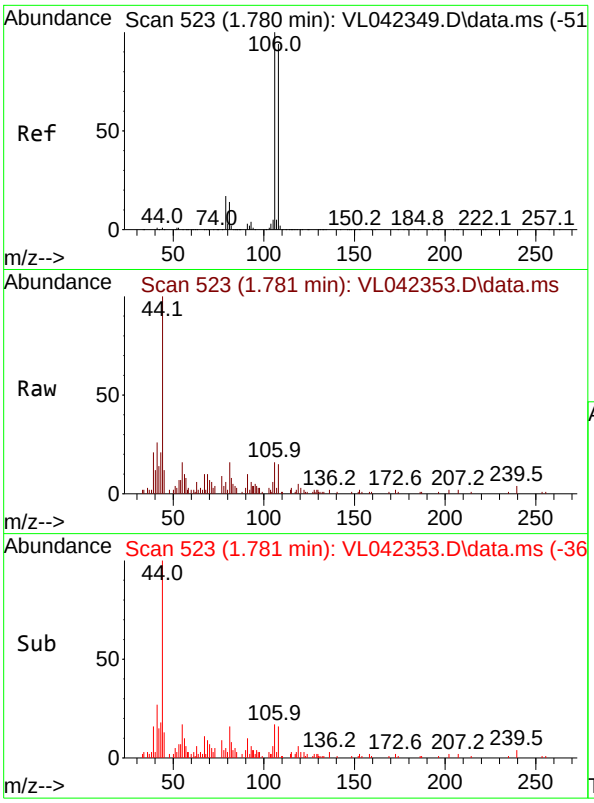


#13
Ethanol
Concen: 2.618 ppbv
RT: 1.891 min Scan# 557
Delta R.T. 0.172 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Tgt Ion: 45 Resp: 1958

Ion	Ratio	Lower	Upper
45	100		
46	0.0	21.9	87.7#



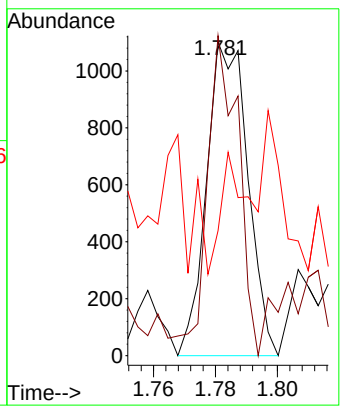


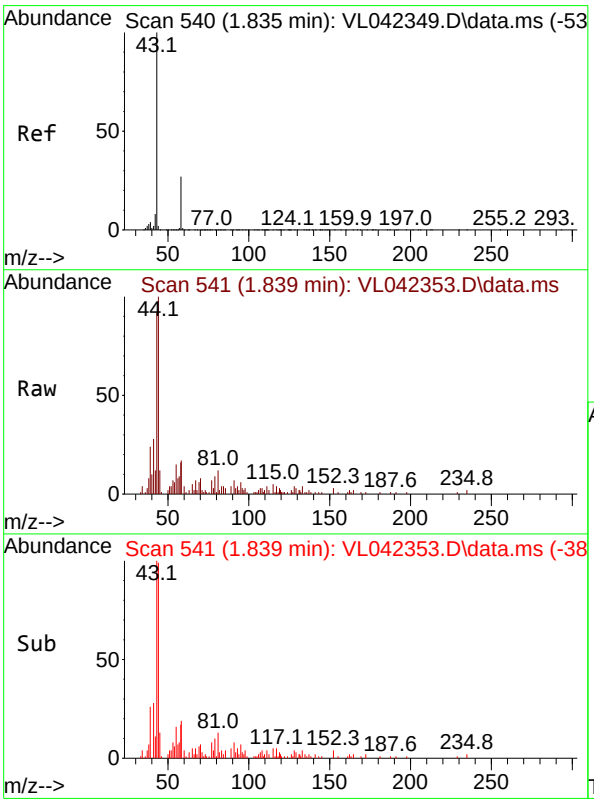
#14
Bromoethene
Concen: 0.164 ppbv
RT: 1.781 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

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#

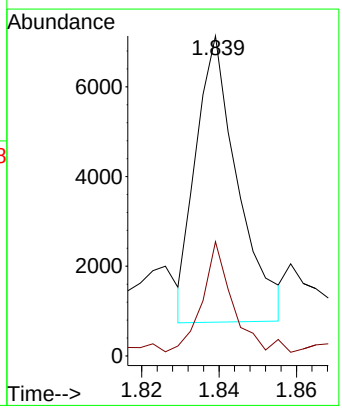


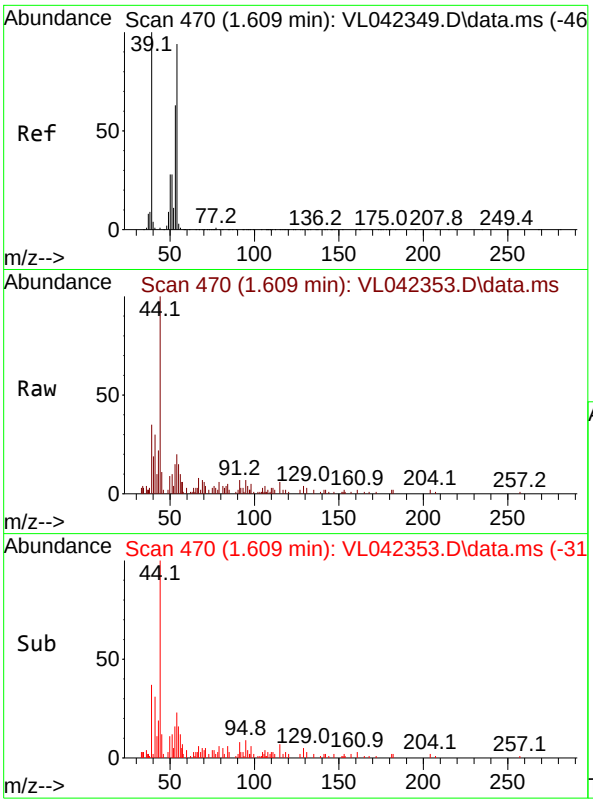


#15
Acetone
Concen: 0.245 ppbv
RT: 1.839 min Scan# 541
Delta R.T. 0.004 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Tgt Ion: 43 Resp: 4783

Ion	Ratio	Lower	Upper
43	100		
58	37.5	22.4	33.6#



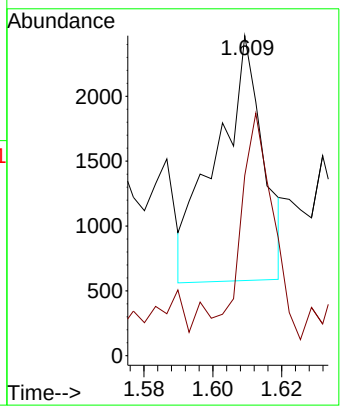


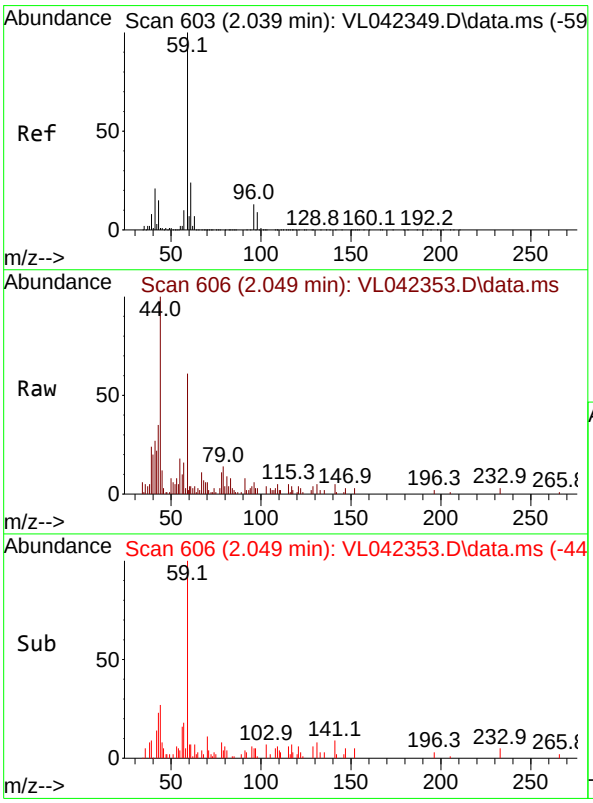
#16
1,3-Butadiene
Concen: 0.193 ppbv
RT: 1.609 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion: 39 Resp: 1776

Ion	Ratio	Lower	Upper
39	100		
54	128.7	64.9	97.3#

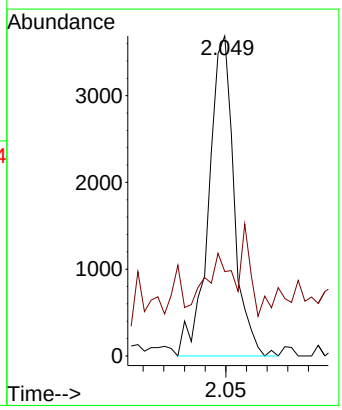


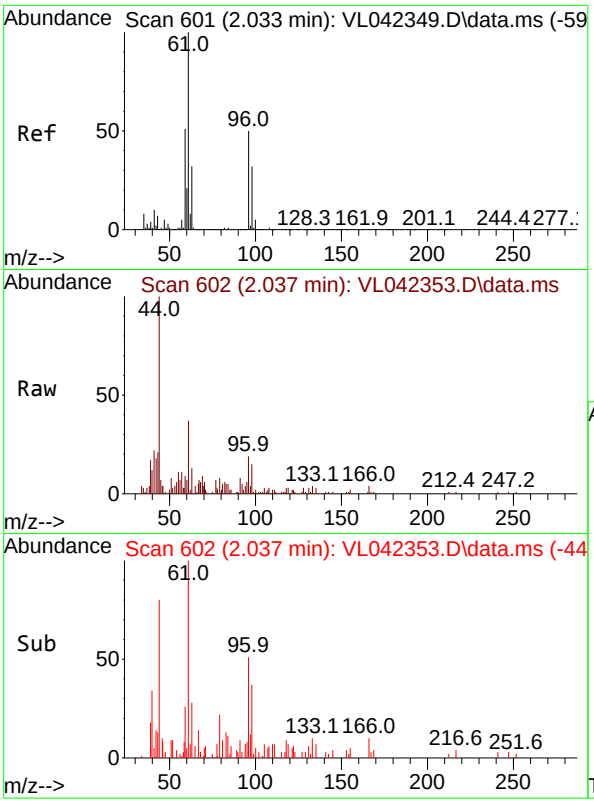


#17
tert-Butyl alcohol
Concen: 0.129 ppbv
RT: 2.049 min Scan# 606
Delta R.T. 0.010 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Tgt Ion: 59 Resp: 3130

Ion	Ratio	Lower	Upper
59	100		
57	46.5	8.7	13.1#



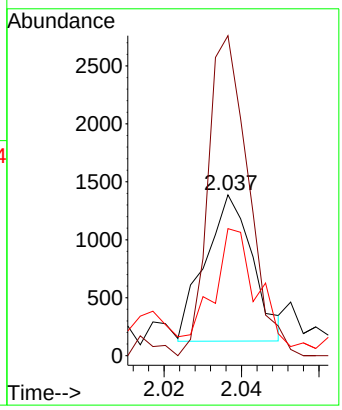


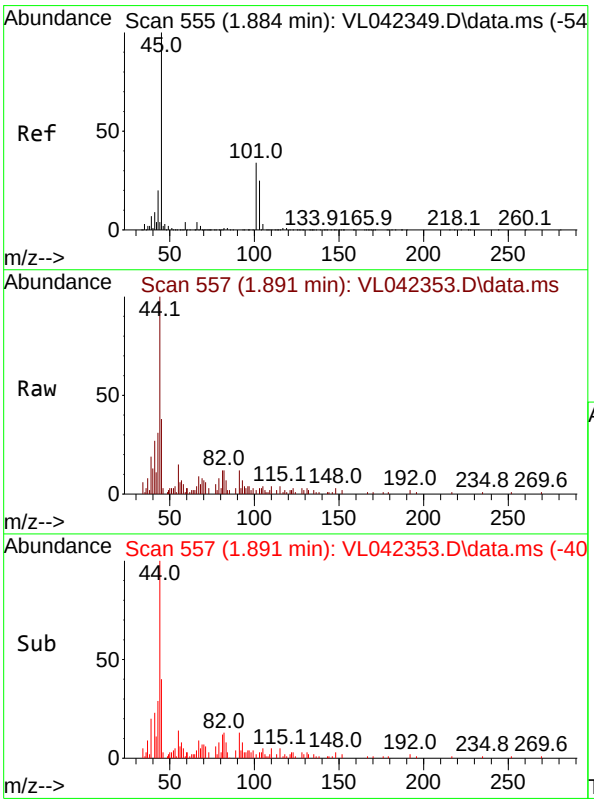
#18
1,1-Dichloroethene
Concen: 0.136 ppbv
RT: 2.037 min Scan# 6
Delta R.T. 0.004 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

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

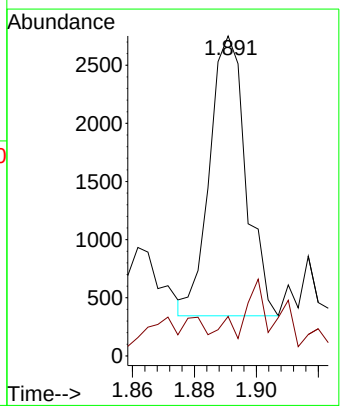


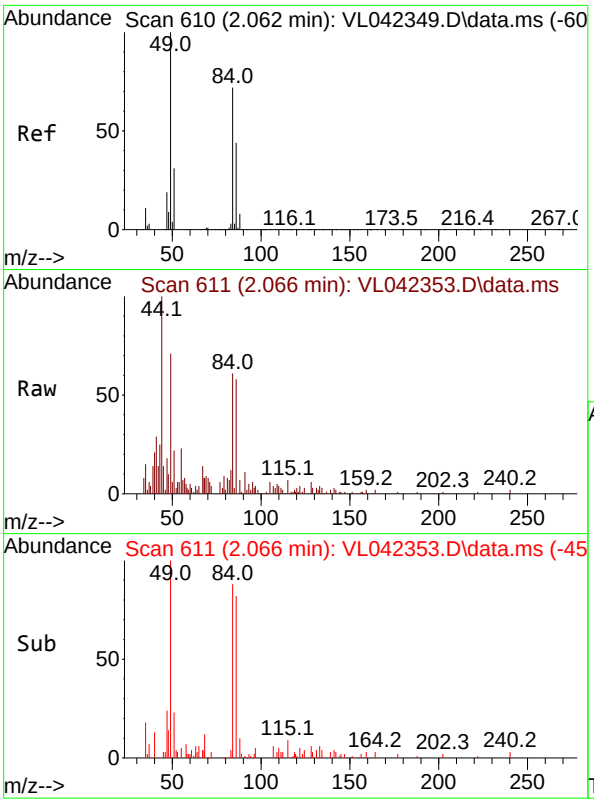


#19
Isopropyl Alcohol
Concen: 0.180 ppbv
RT: 1.891 min Scan# 557
Delta R.T. 0.007 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Tgt Ion: 45 Resp: 1958

Ion	Ratio	Lower	Upper
45	100		
58	49.5	34.5	51.7



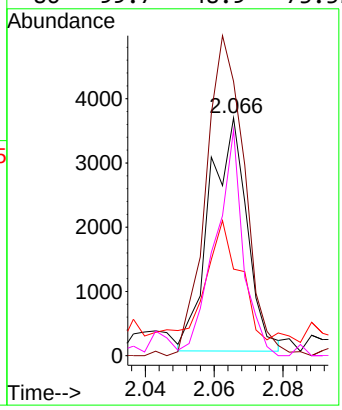


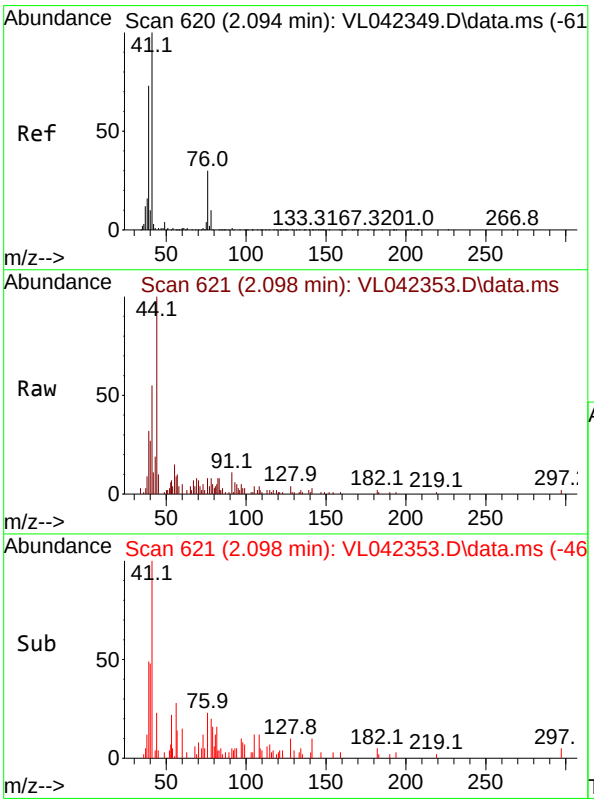
#20
Methylene Chloride
Concen: 0.358 ppbv
RT: 2.066 min Scan# 61
Delta R.T. 0.004 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

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#

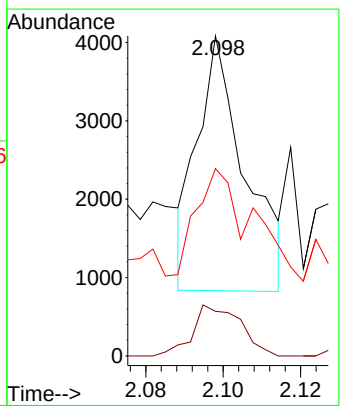


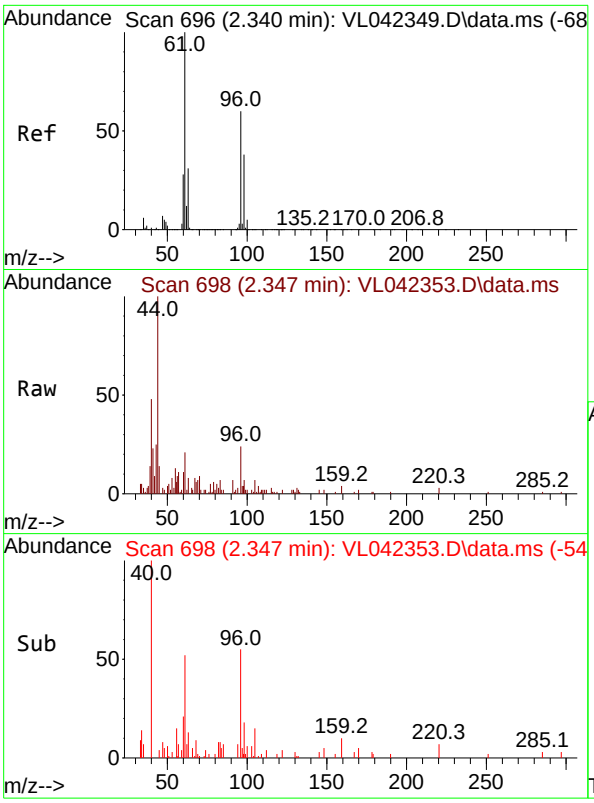


#21
Allyl Chloride
Concen: 0.206 ppbv
RT: 2.098 min Scan# 621
Delta R.T. 0.004 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

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#



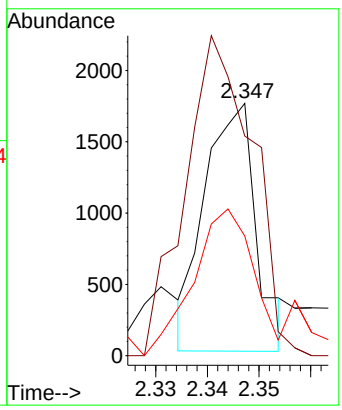


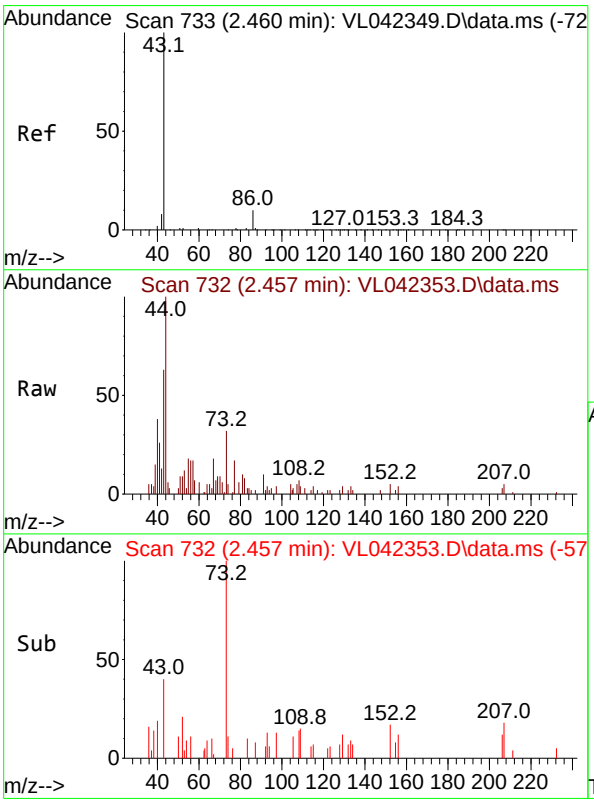
#22
trans-1,2-Dichloroethene
Concen: 0.138 ppbv
RT: 2.347 min Scan# 6
Delta R.T. 0.007 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

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

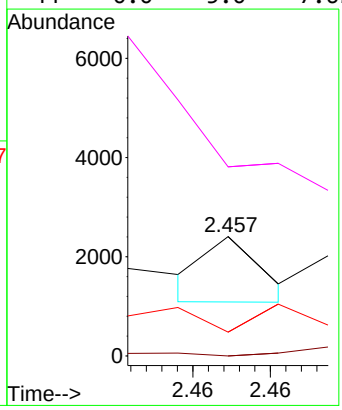


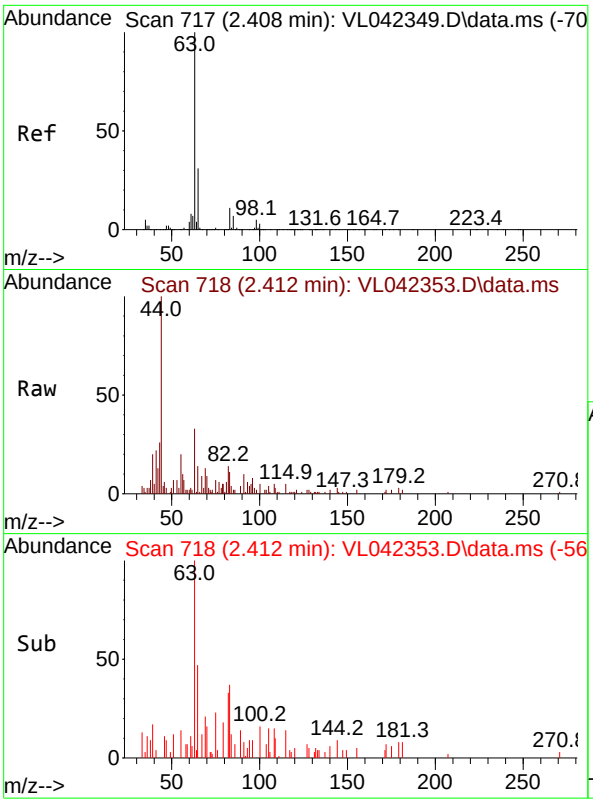


#23
Vinyl Acetate
Concen: 0.041 ppbv
RT: 2.457 min Scan# 732
Delta R.T. -0.003 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

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#



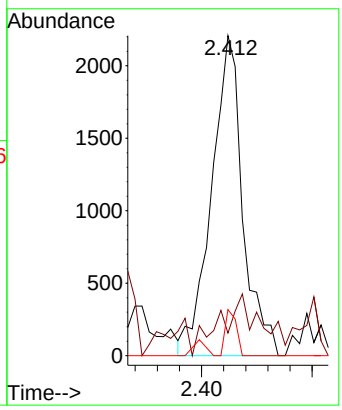


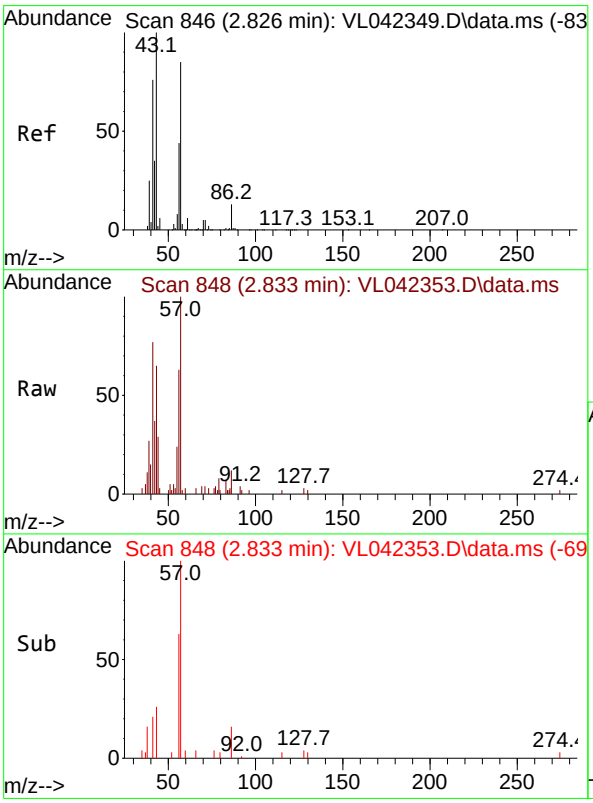
#24
1,1-Dichloroethane
Concen: 0.131 ppbv
RT: 2.412 min Scan# 7
Delta R.T. 0.004 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

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#

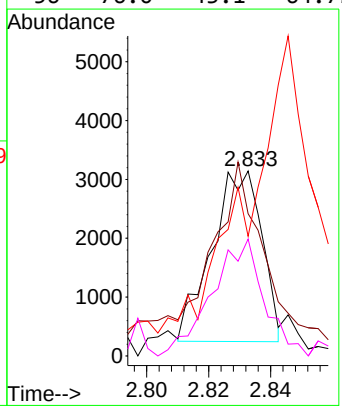


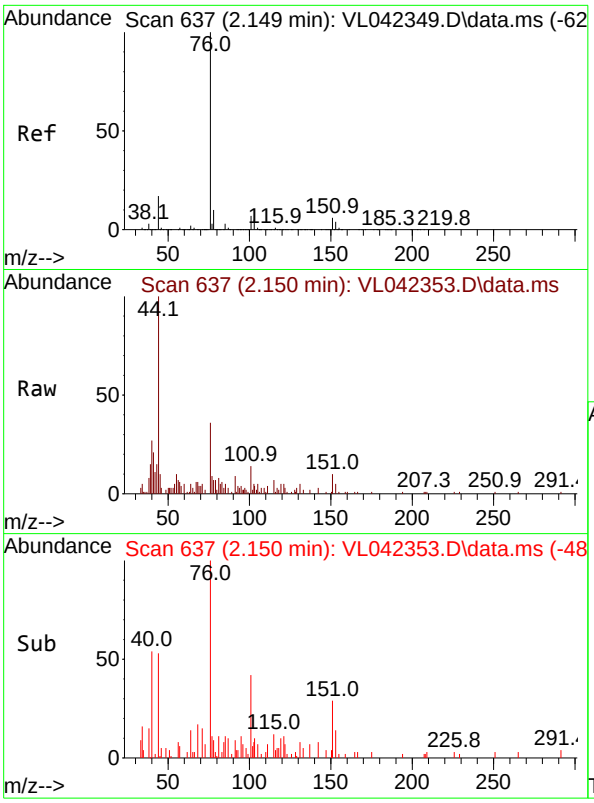


#26
Hexane
Concen: 0.167 ppbv
RT: 2.833 min Scan# 848
Delta R.T. 0.007 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

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#



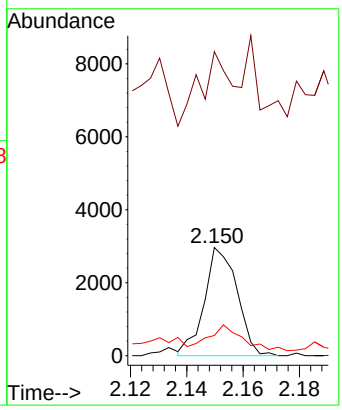


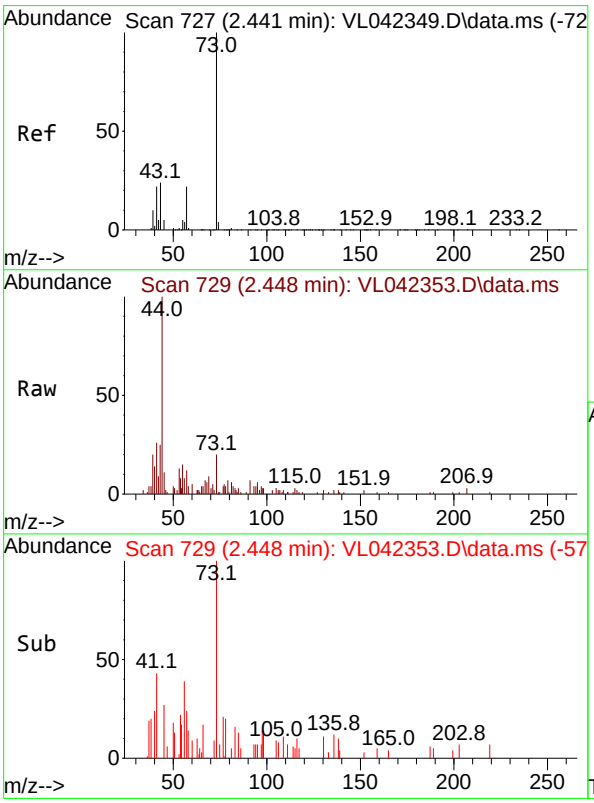
#27
Carbon Disulfide
Concen: 0.115 ppbv
RT: 2.150 min Scan# 6
Delta R.T. 0.000 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

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#

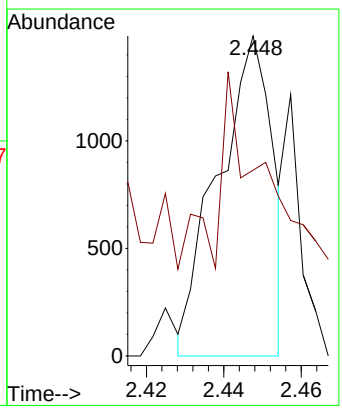


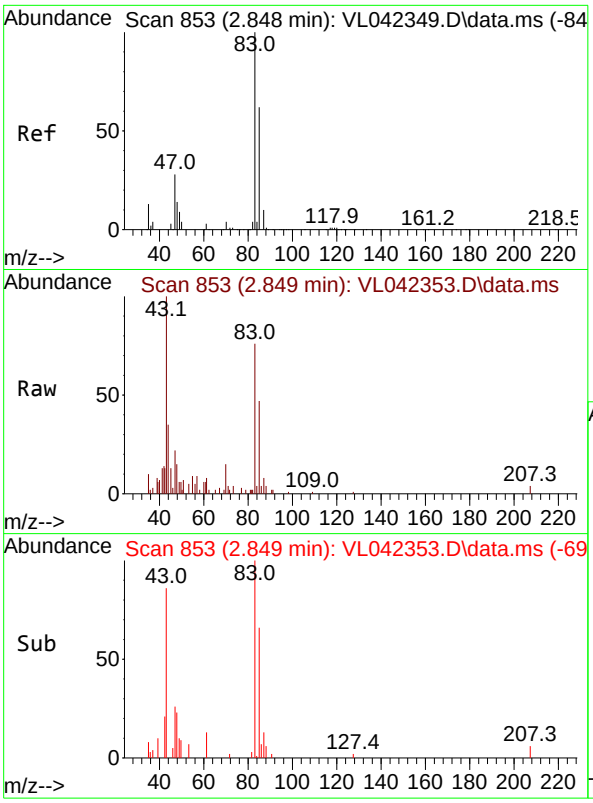


#28
Methyl tert-Butyl Ether
Concen: 0.114 ppbv
RT: 2.448 min Scan# 729
Delta R.T. 0.007 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Tgt Ion: 73 Resp: 1460

Ion	Ratio	Lower	Upper
73	100		
57	84.5	21.3	31.9#



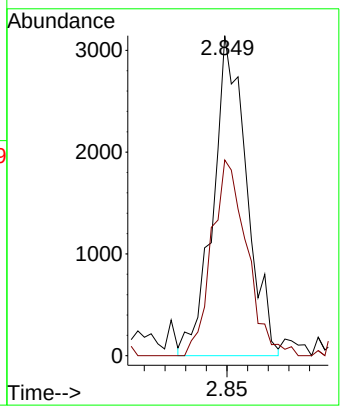


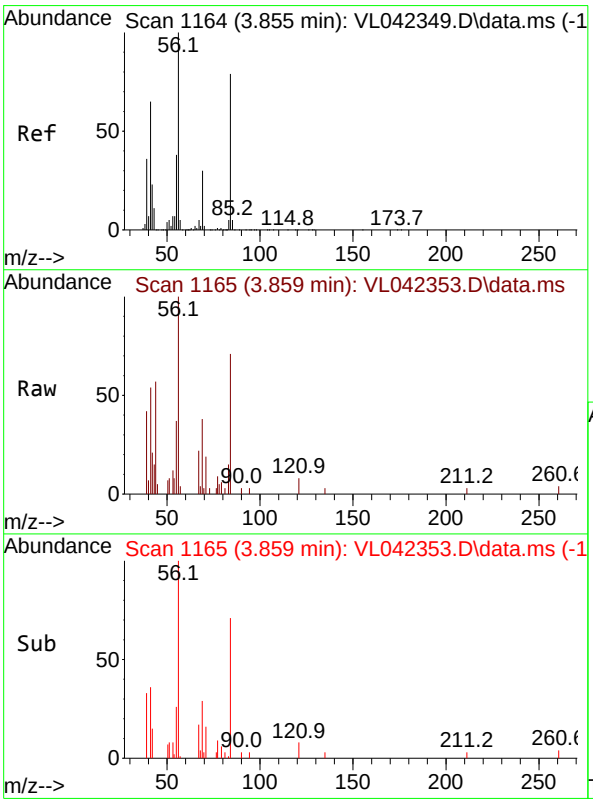
#29
Chloroform
Concen: 0.128 ppbv
RT: 2.849 min Scan# 8
Delta R.T. 0.000 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion: 83 Resp: 3542

Ion	Ratio	Lower	Upper
83	100		
85	62.5	50.0	75.0

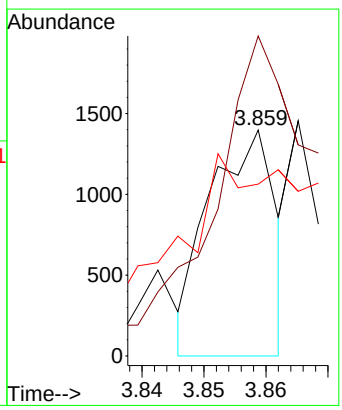


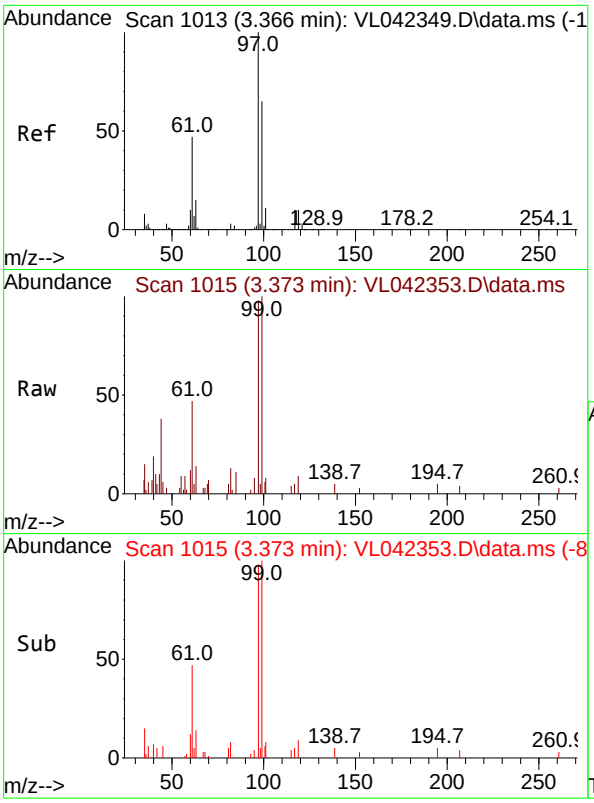


#30
Cyclohexane
Concen: 0.066 ppbv
RT: 3.859 min Scan# 1165
Delta R.T. 0.004 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

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#



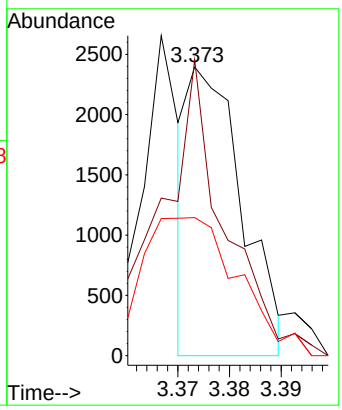


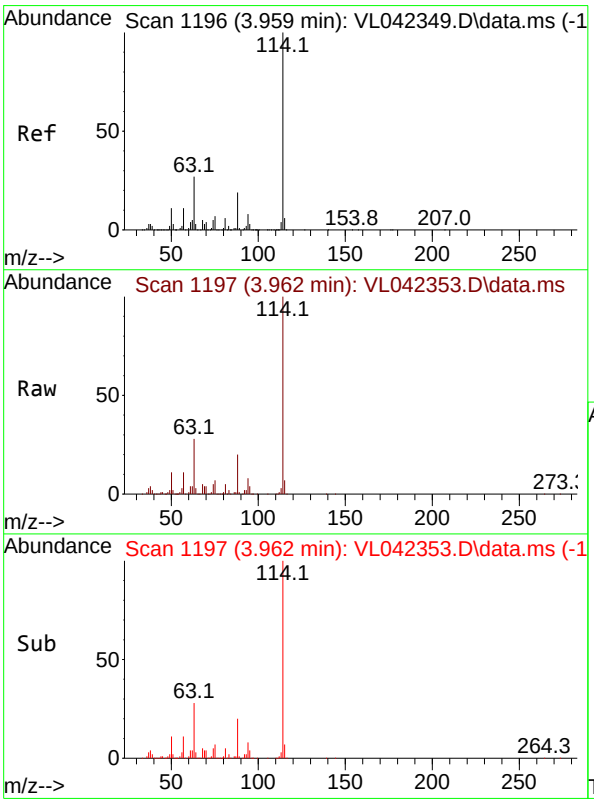
#32
1,1,1-Trichloroethane
Concen: 0.059 ppbv
RT: 3.373 min Scan# 1
Delta R.T. 0.007 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

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#

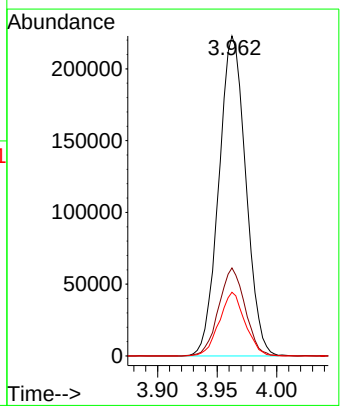


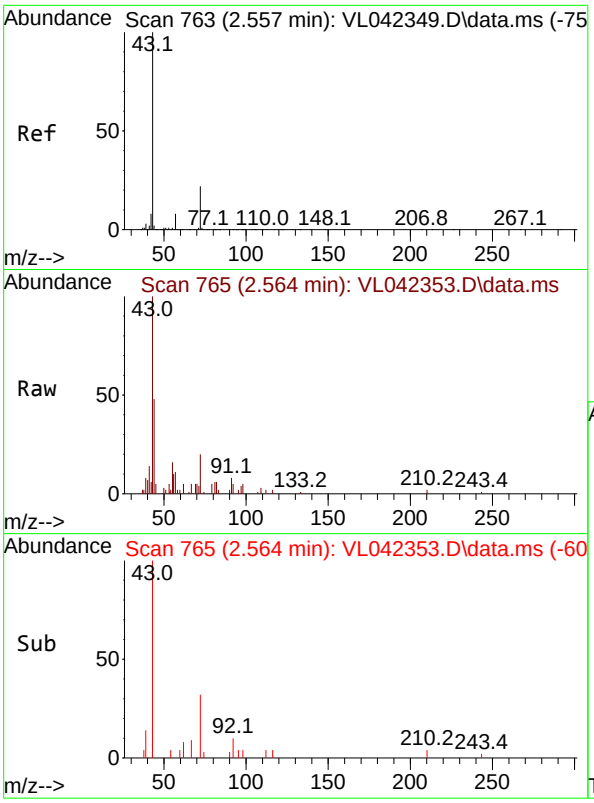


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.962 min Scan# 1197
Delta R.T. 0.004 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

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



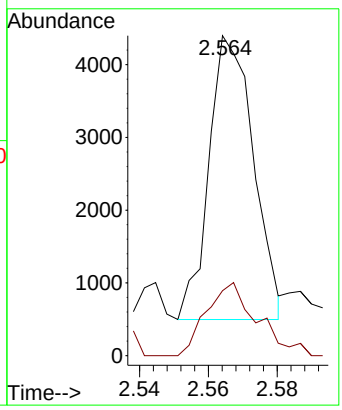


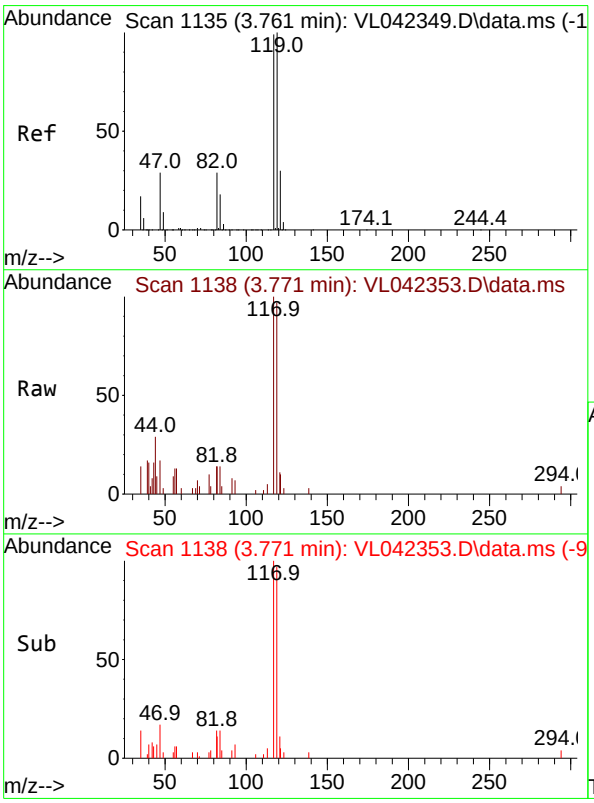
#34
2-Butanone
Concen: 0.126 ppbv
RT: 2.564 min Scan# 7
Delta R.T. 0.007 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion: 43 Resp: 3506

Ion	Ratio	Lower	Upper
43	100		
72	32.7	18.2	27.2#

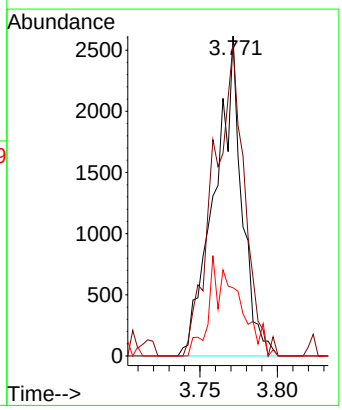


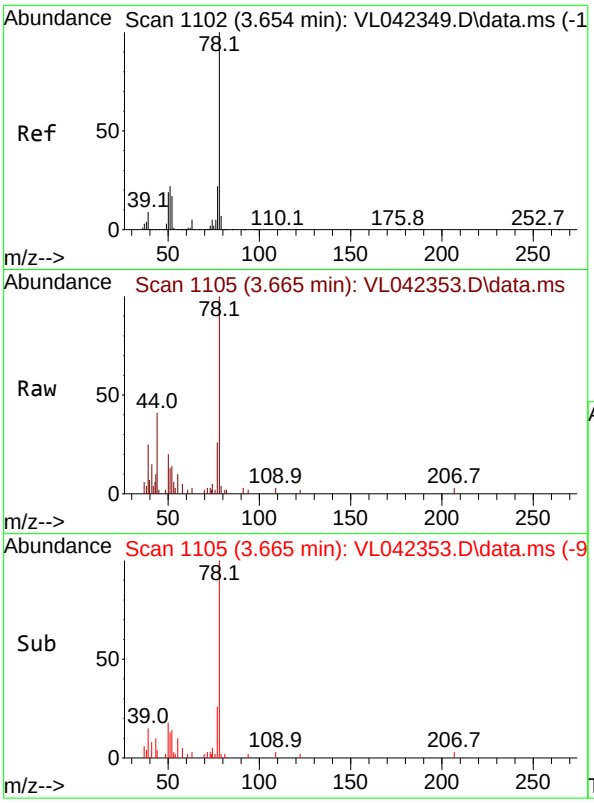


#35
Carbon Tetrachloride
Concen: 0.101 ppbv
RT: 3.771 min Scan# 1138
Delta R.T. 0.010 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

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#



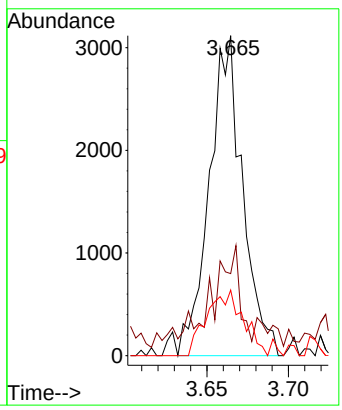


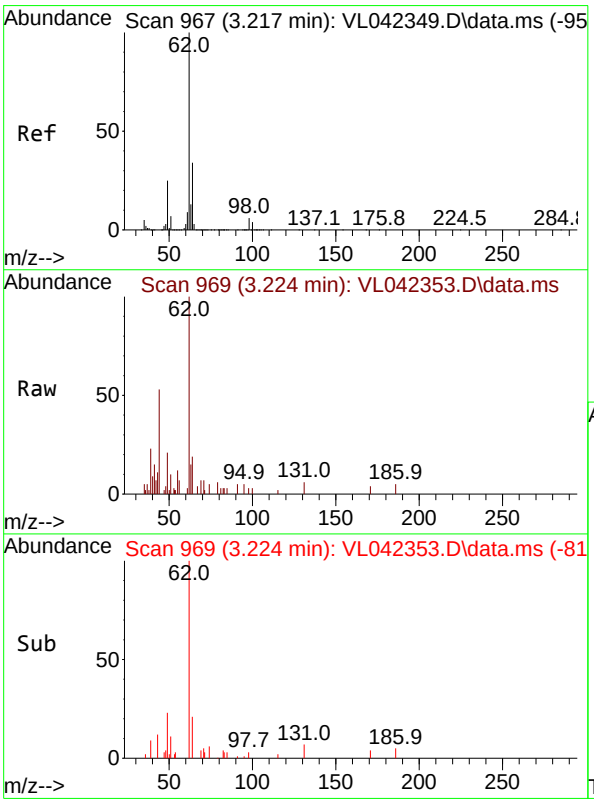
#36
Benzene
Concen: 0.117 ppbv
RT: 3.665 min Scan# 1
Delta R.T. 0.010 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

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

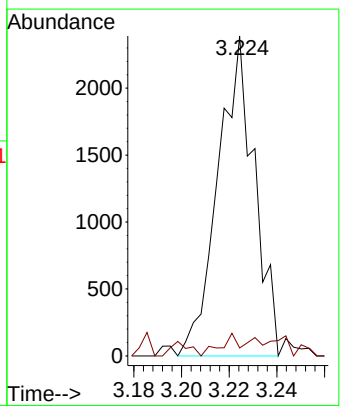


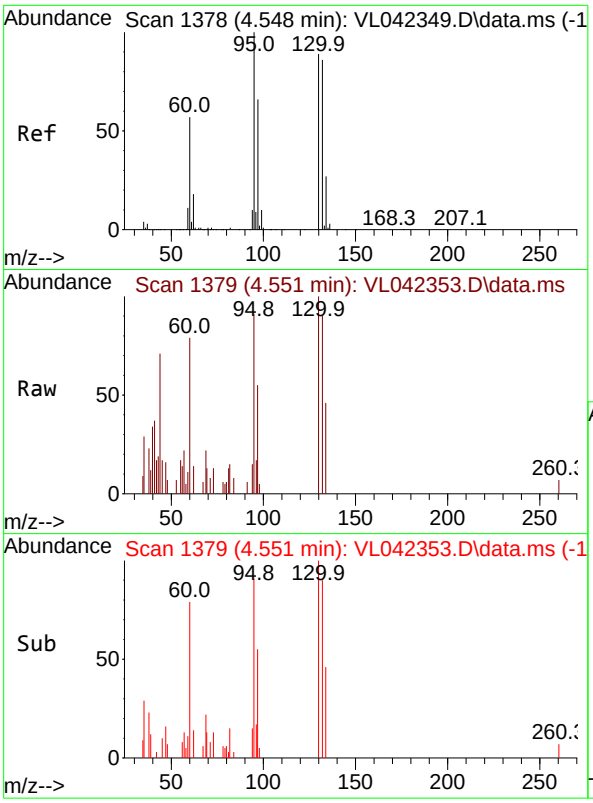


#37
1,2-Dichloroethane
Concen: 0.111 ppbv
RT: 3.224 min Scan# 969
Delta R.T. 0.007 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Tgt Ion: 62 Resp: 2523

Ion	Ratio	Lower	Upper
62	100		
98	0.0	5.1	7.7#



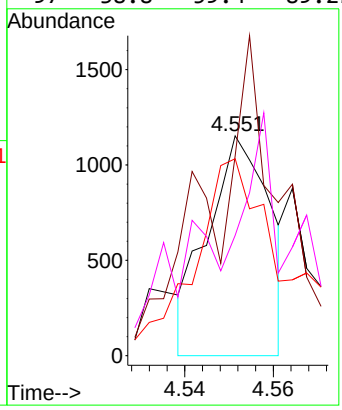


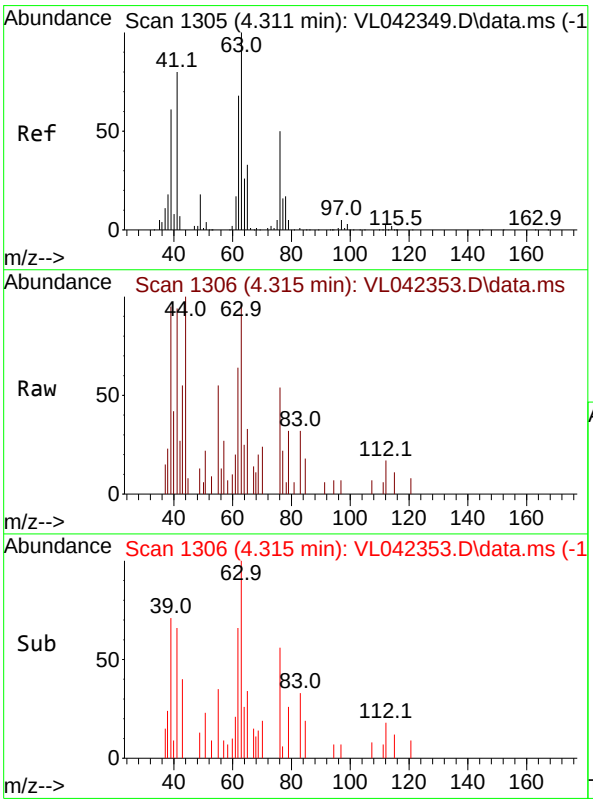
#38
Trichloroethene
Concen: 0.067 ppbv
RT: 4.551 min Scan# 1
Delta R.T. 0.004 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

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#

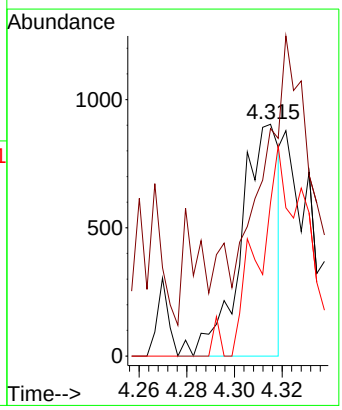


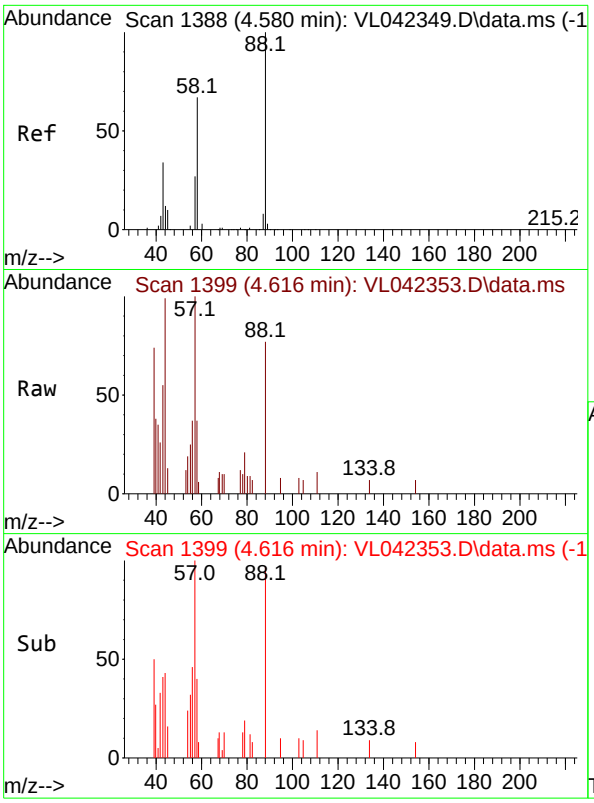


#39
1,2-Dichloropropane
Concen: 0.071 ppbv
RT: 4.315 min Scan# 1306
Delta R.T. 0.004 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

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



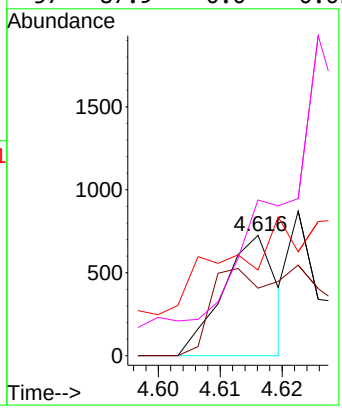


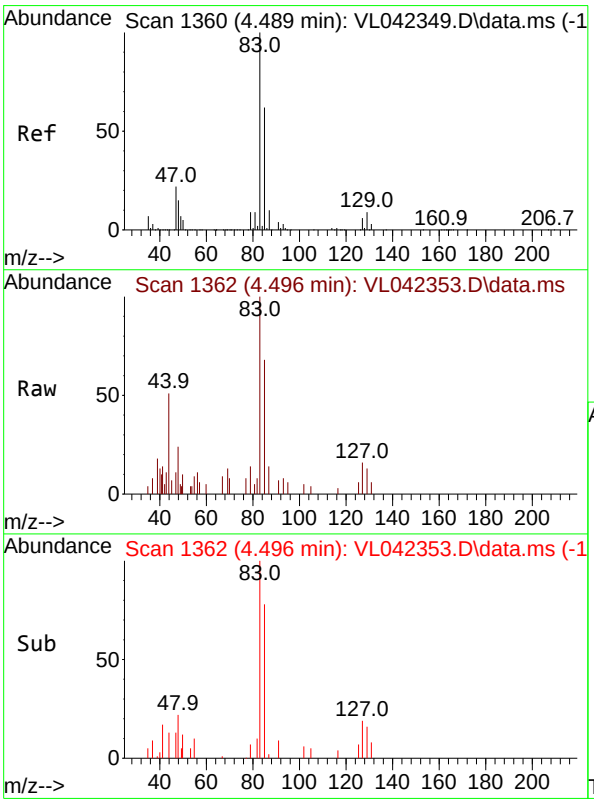
#40
1,4-Dioxane
Concen: 0.056 ppbv
RT: 4.616 min Scan# 1
Delta R.T. 0.036 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

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#

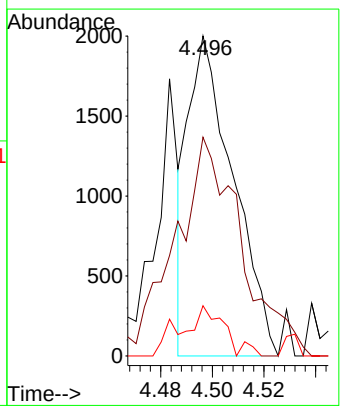


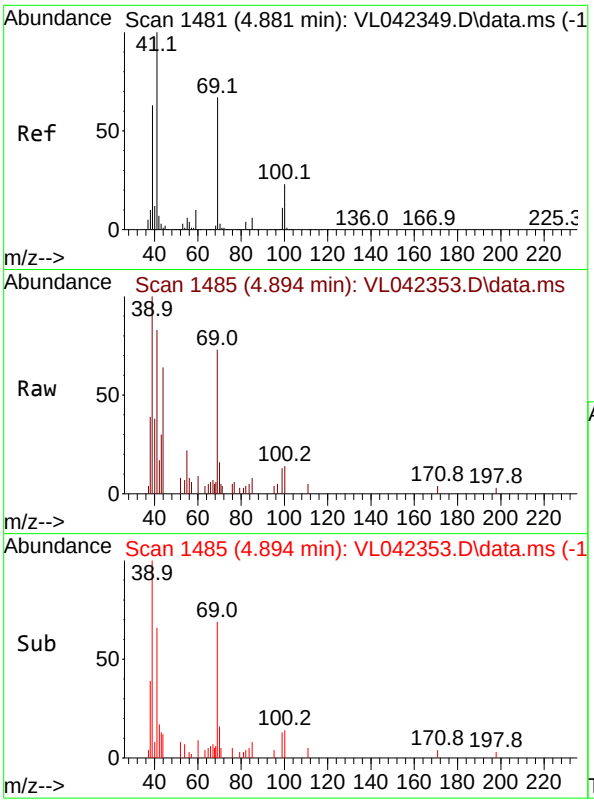


#42
Bromodichloromethane
Concen: 0.077 ppbv
RT: 4.496 min Scan# 1362
Delta R.T. 0.007 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

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#



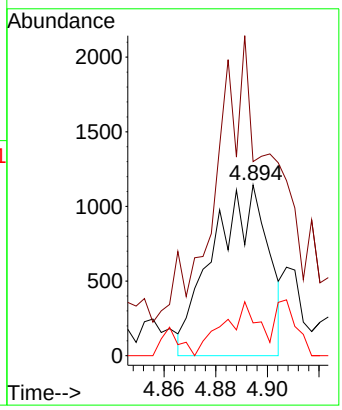


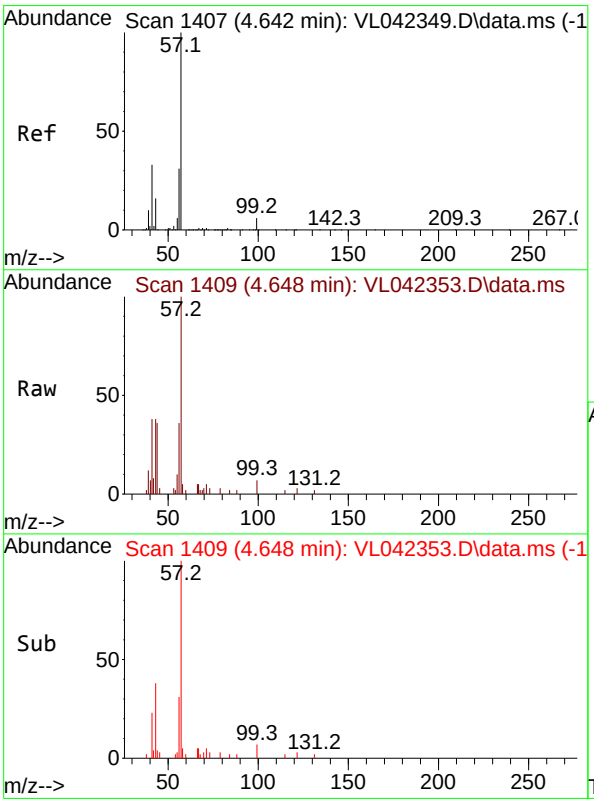
#43
Methyl Methacrylate
Concen: 0.099 ppbv
RT: 4.894 min Scan# 14
Delta R.T. 0.013 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

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#

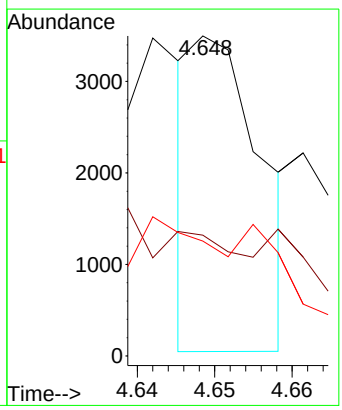


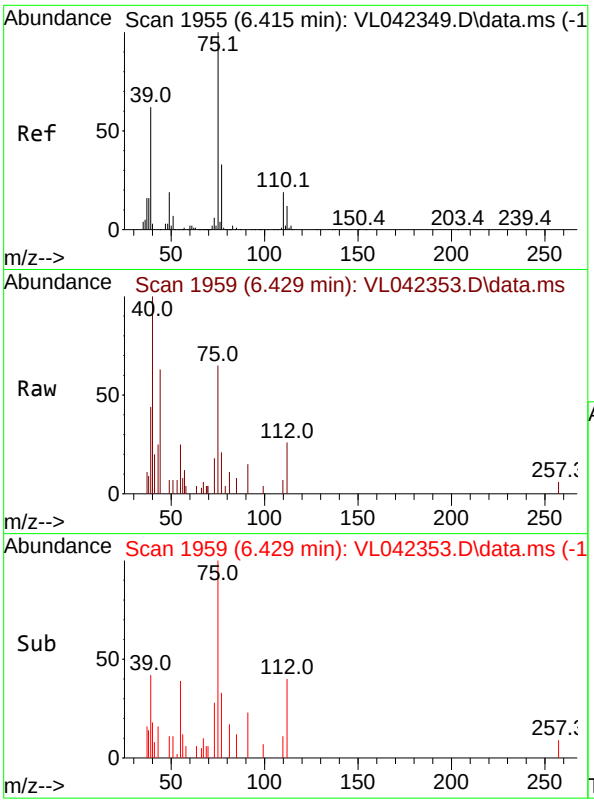


#44
2,2,4-Trimethylpentane
Concen: 0.032 ppbv
RT: 4.648 min Scan# 1409
Delta R.T. 0.007 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

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#



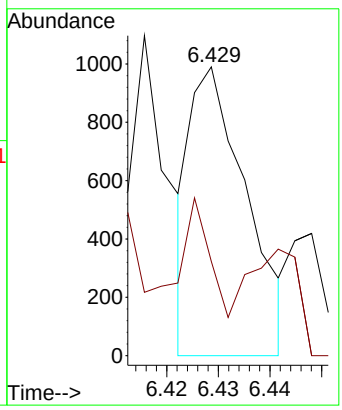


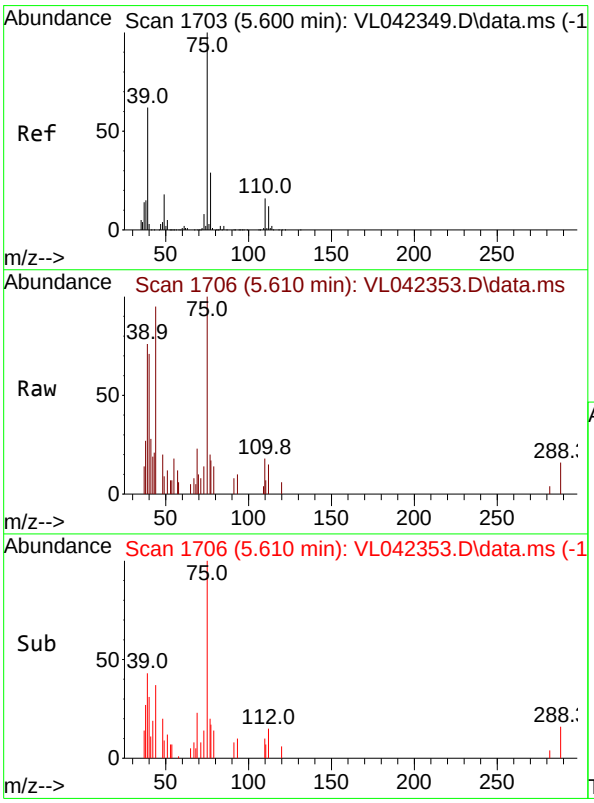
#45
t-1,3-Dichloropropene
Concen: 0.043 ppbv
RT: 6.429 min Scan# 1
Delta R.T. 0.013 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion: 75 Resp: 748

Ion	Ratio	Lower	Upper
75	100		
77	32.6	27.0	40.6

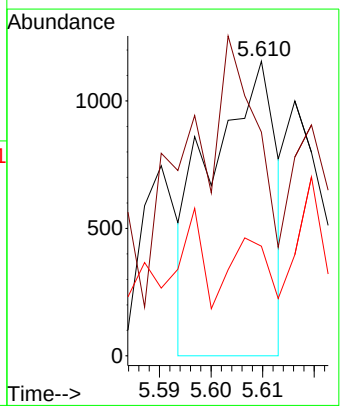


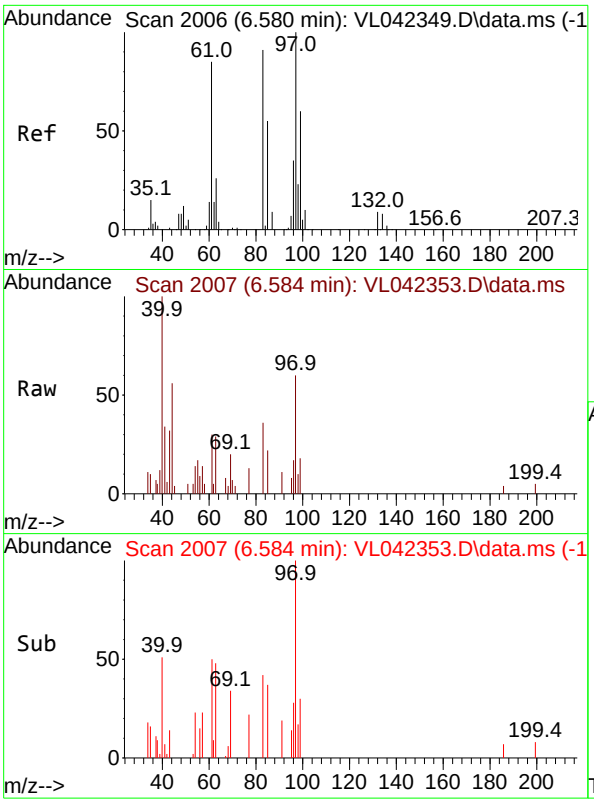


#46
cis-1,3-Dichloropropene
Concen: 0.048 ppbv
RT: 5.610 min Scan# 1706
Delta R.T. 0.010 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

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



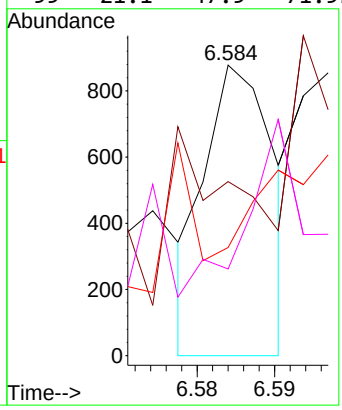


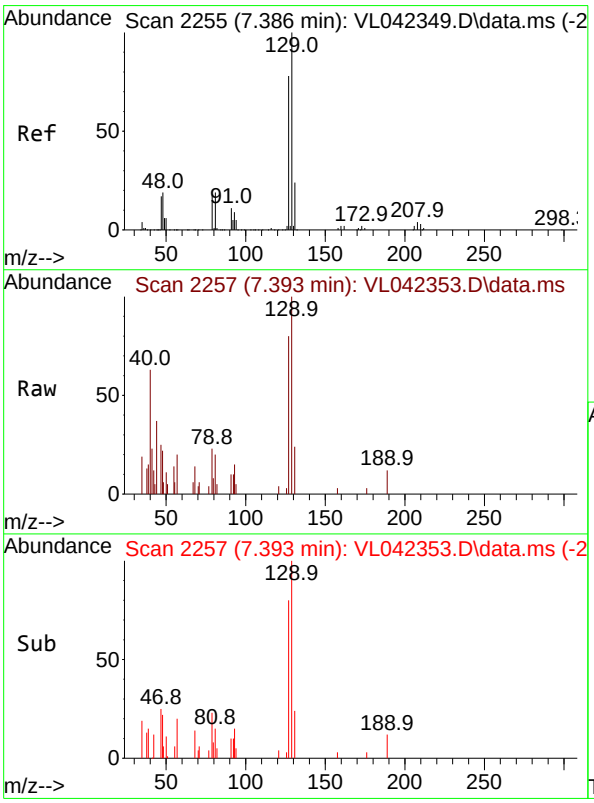
#47
1,1,2-Trichloroethane
Concen: 0.038 ppbv
RT: 6.584 min Scan# 2
Delta R.T. 0.004 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

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#

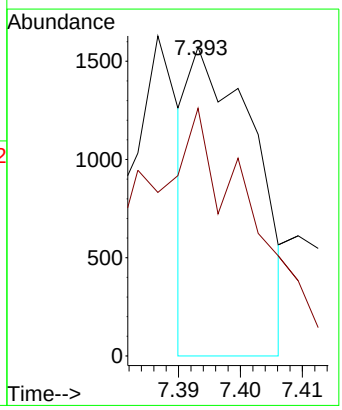


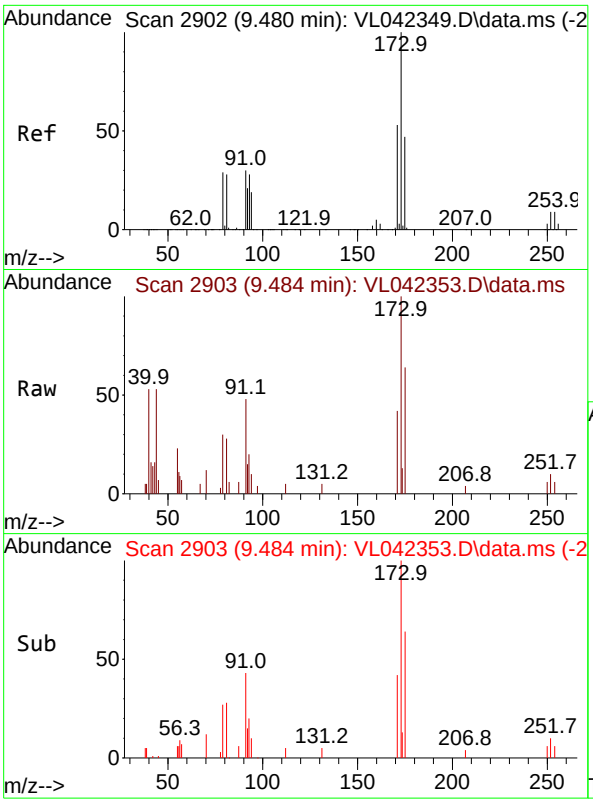


#48
Dibromochloromethane
Concen: 0.045 ppbv
RT: 7.393 min Scan# 2257
Delta R.T. 0.007 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Tgt Ion:129 Resp: 1149

Ion	Ratio	Lower	Upper
129	100		
127	167.2	39.1	117.3#



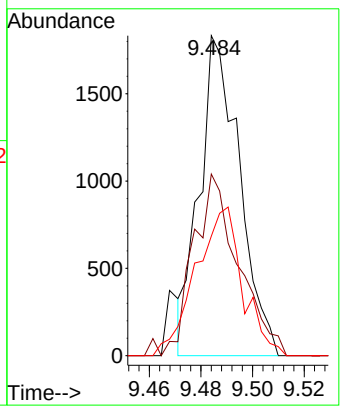


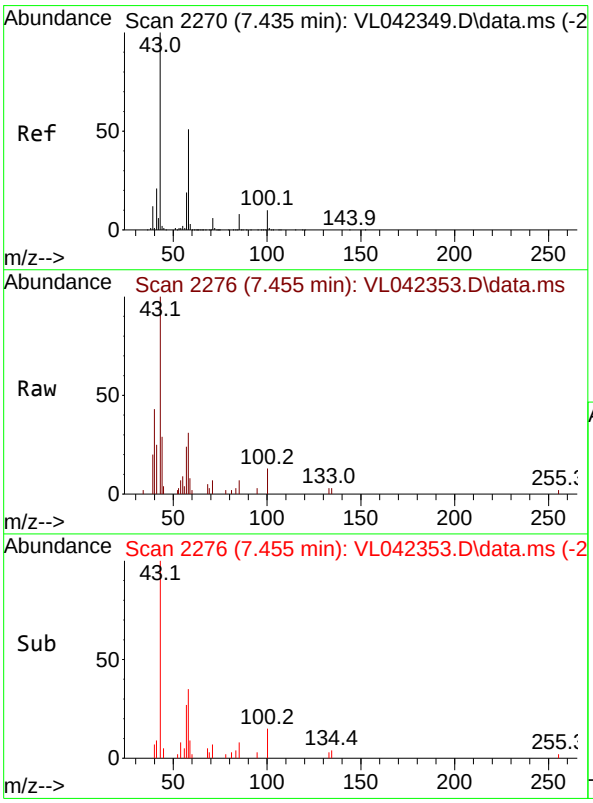
#49
Bromoform
Concen: 0.089 ppbv
RT: 9.484 min Scan# 2
Delta R.T. 0.004 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

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

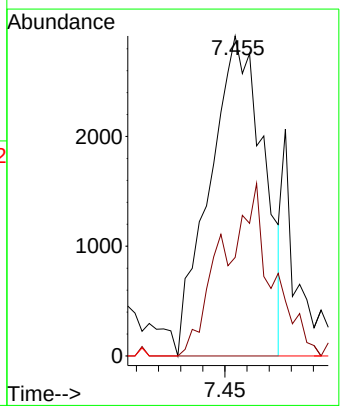


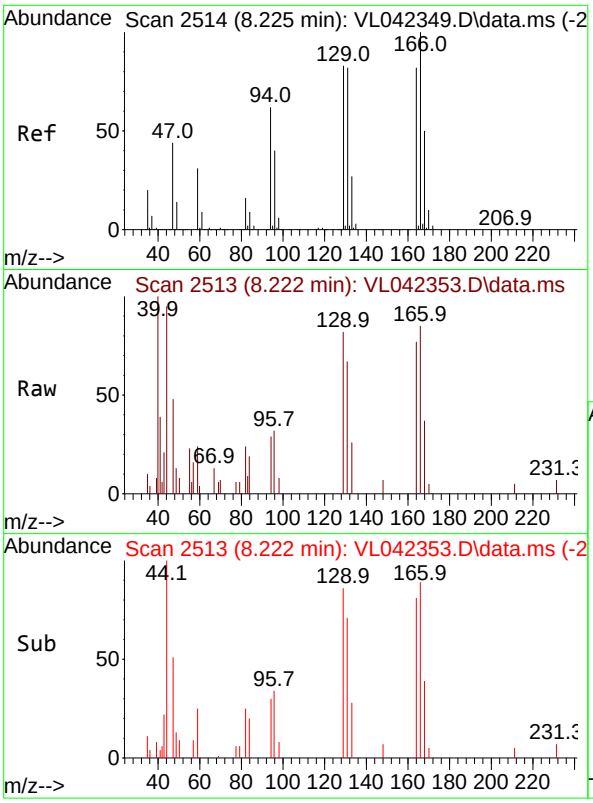


#51
2-Hexanone
Concen: 0.118 ppbv
RT: 7.455 min Scan# 2276
Delta R.T. 0.020 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

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#



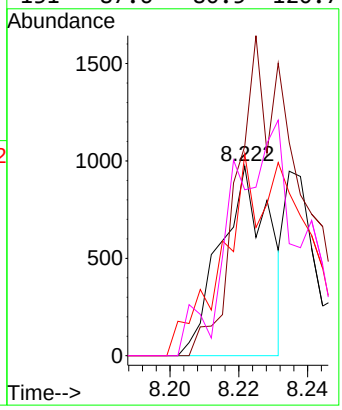


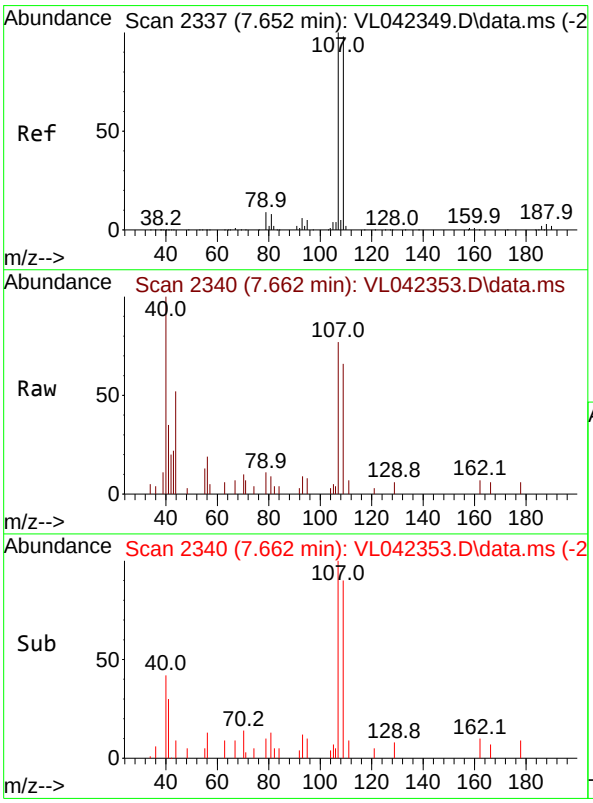
#52
Tetrachloroethene
Concen: 0.065 ppbv
RT: 8.222 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

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

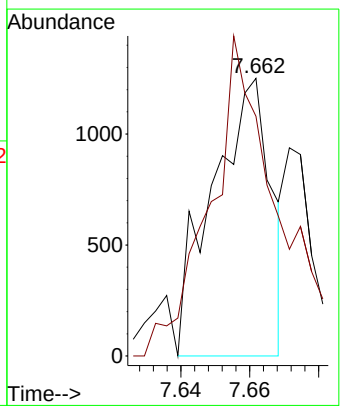


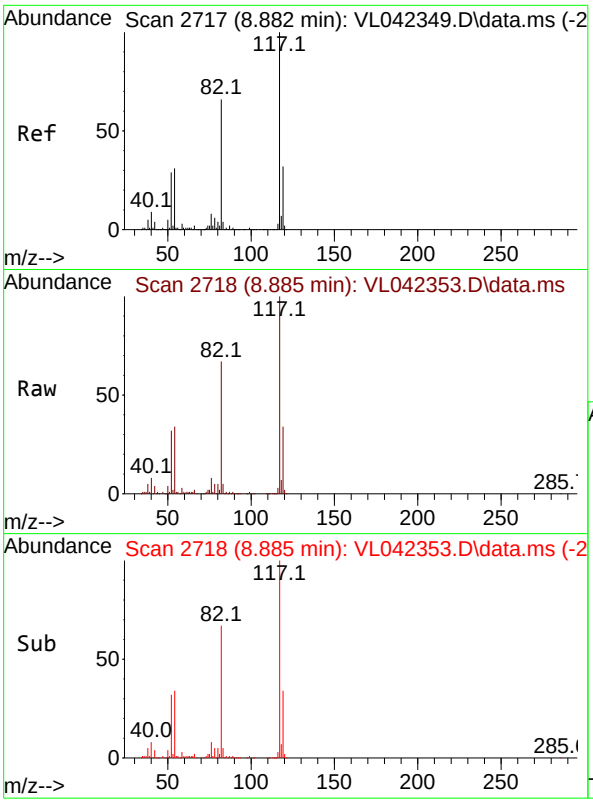


#54
1,2-Dibromoethane
Concen: 0.072 ppbv
RT: 7.662 min Scan# 2340
Delta R.T. 0.010 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Tgt Ion:107 Resp: 1470

Ion	Ratio	Lower	Upper
107	100		
109	72.7	78.2	117.4#



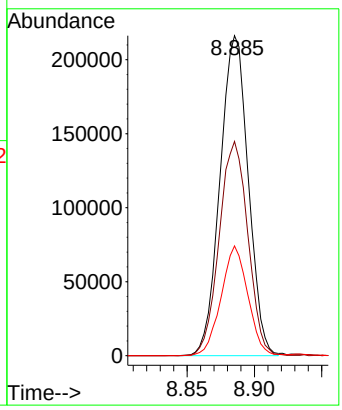


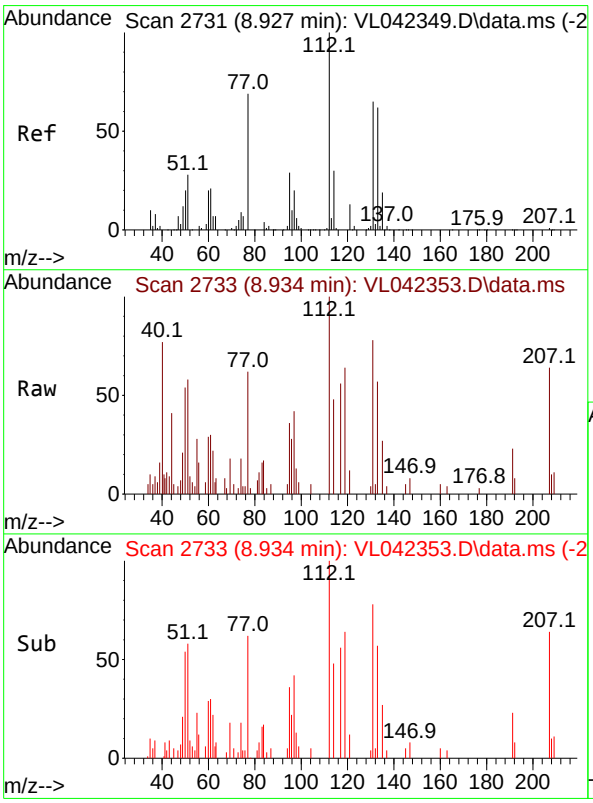
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.885 min Scan# 2
Delta R.T. 0.004 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

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

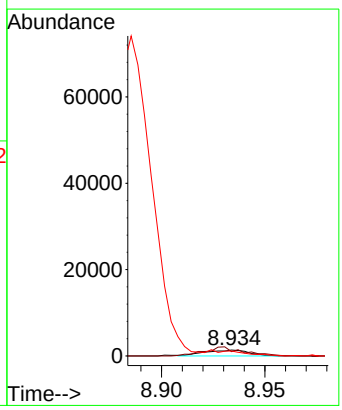


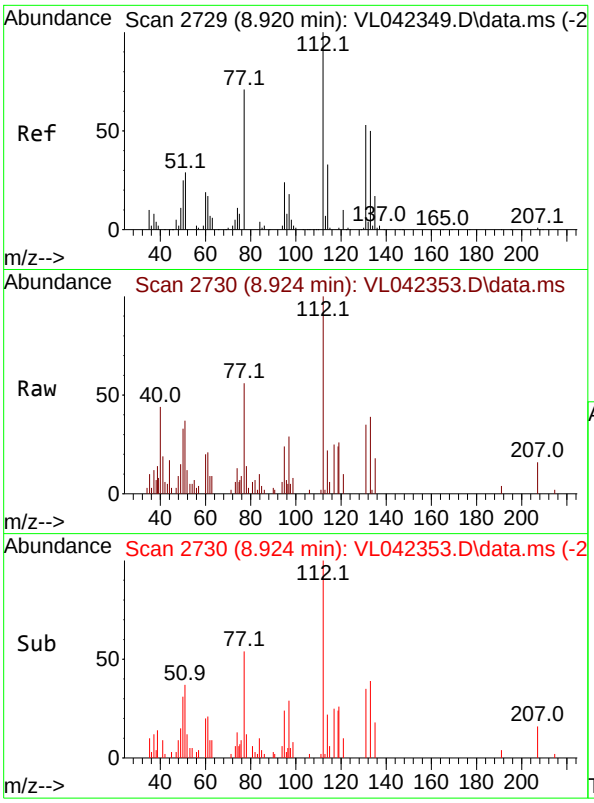


#56
1,1,1,2-Tetrachloroethane
Concen: 0.107 ppbv
RT: 8.934 min Scan# 2733
Delta R.T. 0.007 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

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#



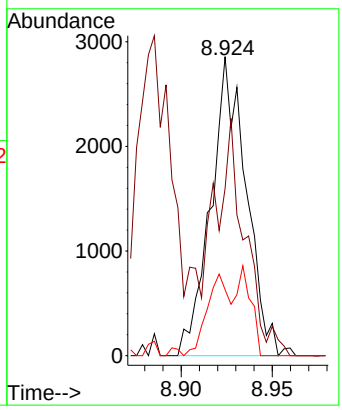


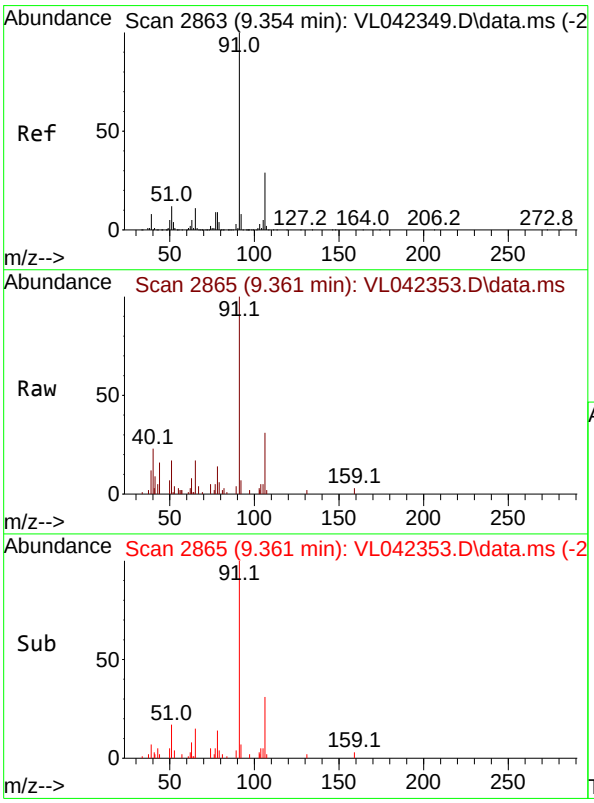
#57
Chlorobenzene
Concen: 0.117 ppbv
RT: 8.924 min Scan# 2
Delta R.T. 0.004 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

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#

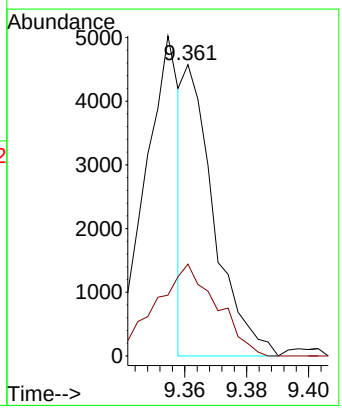


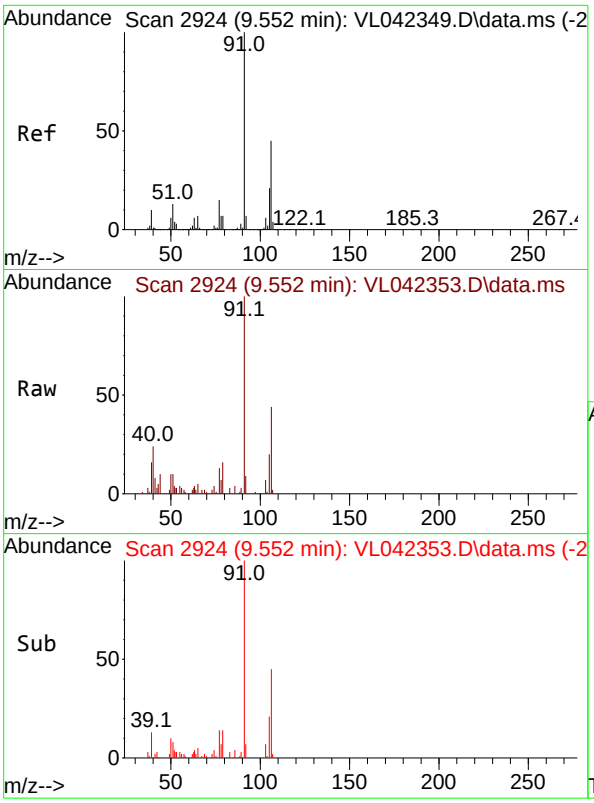


#58
Ethyl Benzene
Concen: 0.050 ppbv
RT: 9.361 min Scan# 2865
Delta R.T. 0.007 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Tgt Ion: 91 Resp: 3105

Ion	Ratio	Lower	Upper
91	100		
106	31.5	23.0	34.4



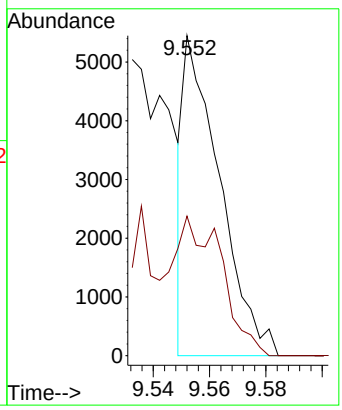


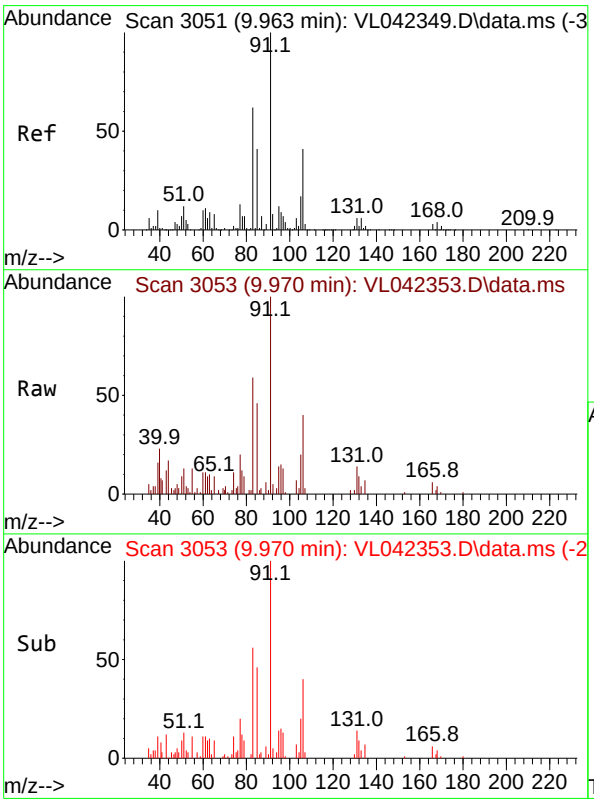
#59
m/p-Xylene
Concen: 0.096 ppbv
RT: 9.552 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion: 91 Resp: 4844

Ion	Ratio	Lower	Upper
91	100		
106	0.0	35.4	53.2#

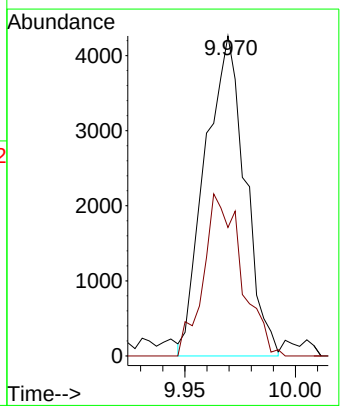


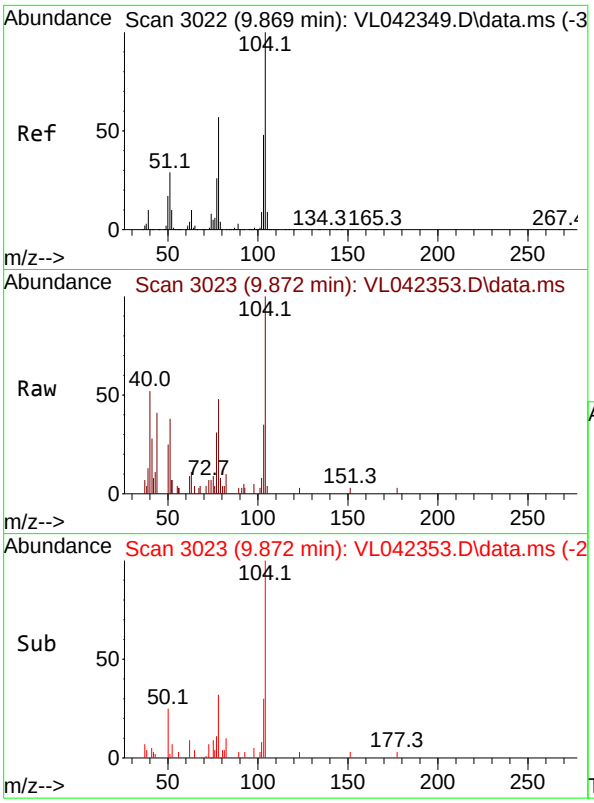


#60
o-Xylene
Concen: 0.106 ppbv
RT: 9.970 min Scan# 3053
Delta R.T. 0.007 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Tgt Ion: 91 Resp: 5359

Ion	Ratio	Lower	Upper
91	100		
106	48.3	21.1	63.4



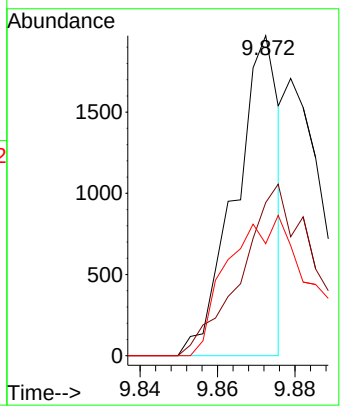


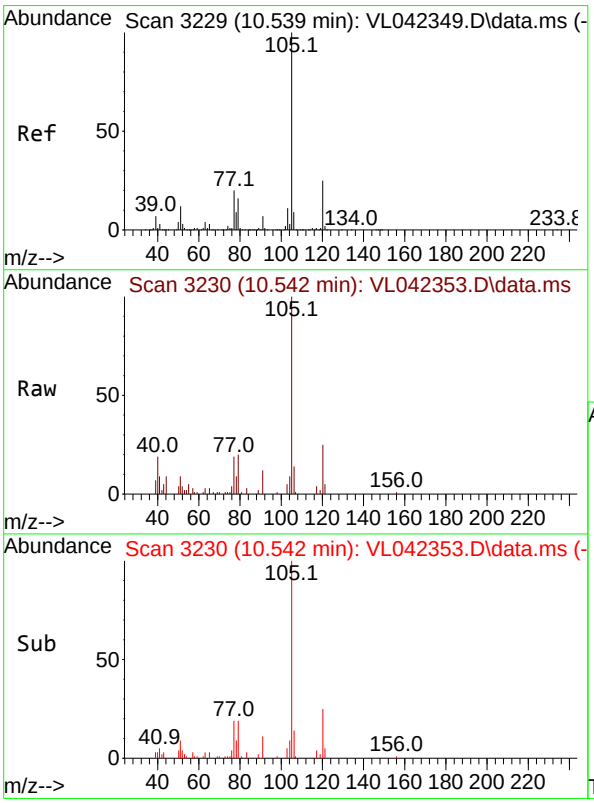
#61
Styrene
Concen: 0.064 ppbv
RT: 9.872 min Scan# 3
Delta R.T. 0.004 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

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#

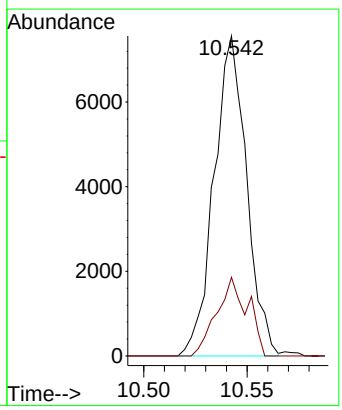


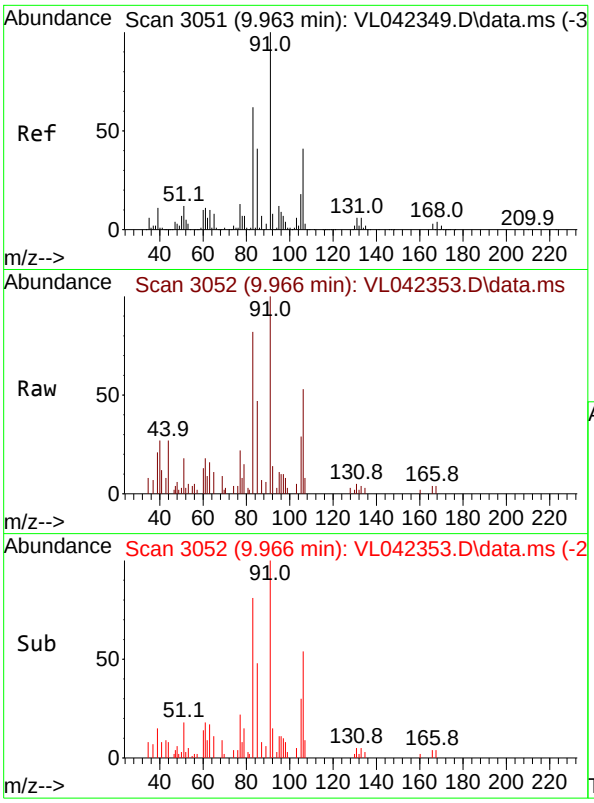


#62
Isopropylbenzene
Concen: 0.111 ppbv
RT: 10.542 min Scan# 3230
Delta R.T. 0.004 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Tgt Ion:105 Resp: 8285

Ion	Ratio	Lower	Upper
105	100		
120	23.5	19.8	29.8



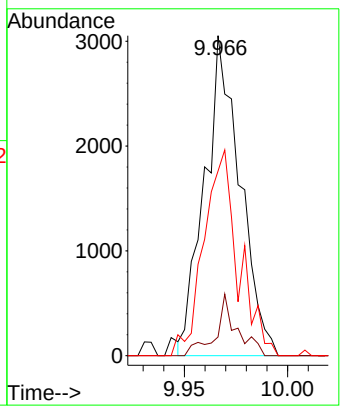


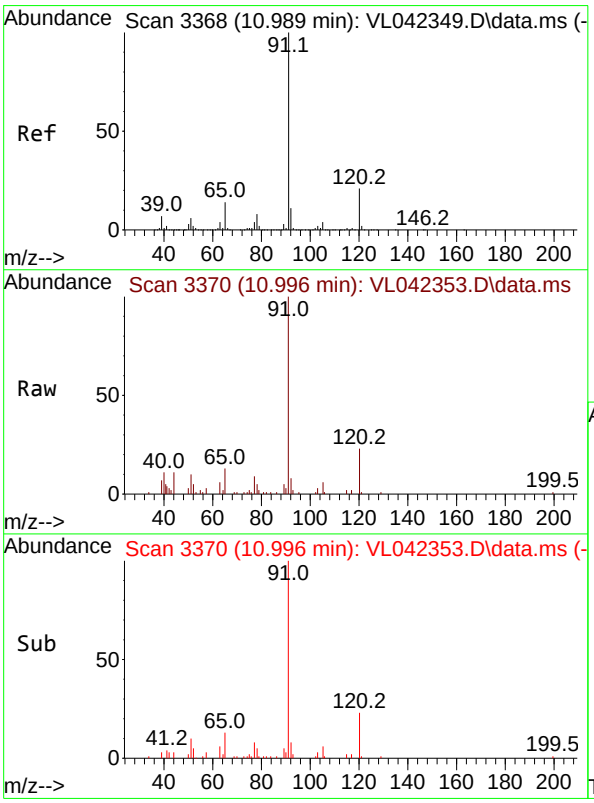
#63
1,1,2,2-Tetrachloroethane
Concen: 0.111 ppbv
RT: 9.966 min Scan# 3
Delta R.T. 0.004 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

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

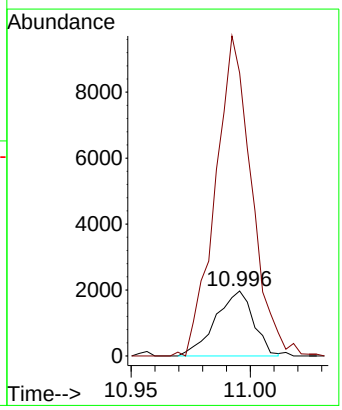


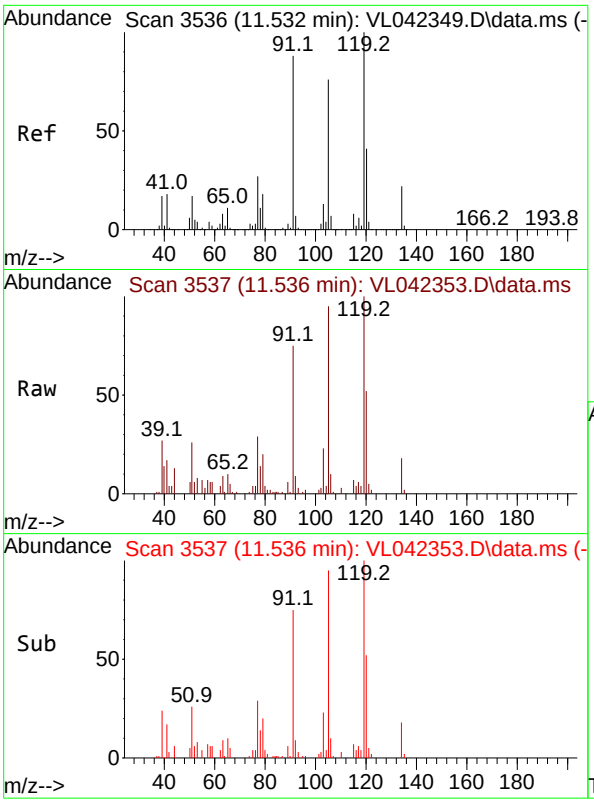


#64
n-propylbenzene
Concen: 0.117 ppbv
RT: 10.996 min Scan# 3370
Delta R.T. 0.007 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Tgt Ion:120 Resp: 2186

Ion	Ratio	Lower	Upper
120	100		
91	471.4	392.4	588.6



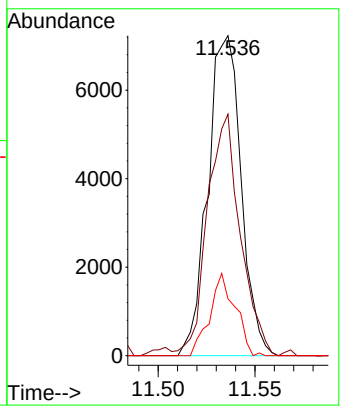


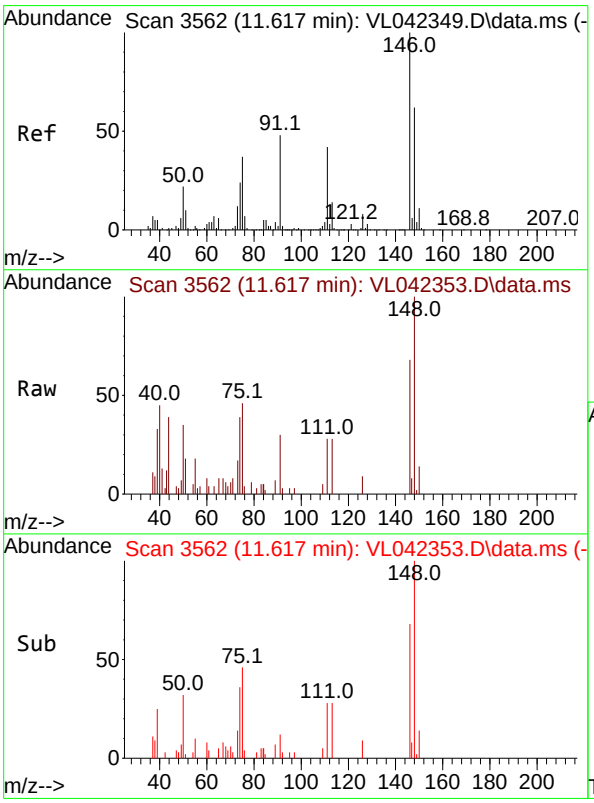
#65
tert-Butylbenzene
Concen: 0.127 ppbv
RT: 11.536 min Scan# 3
Delta R.T. 0.004 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

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

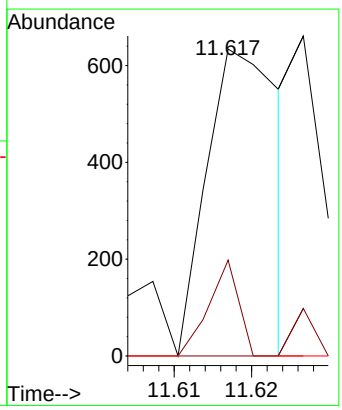


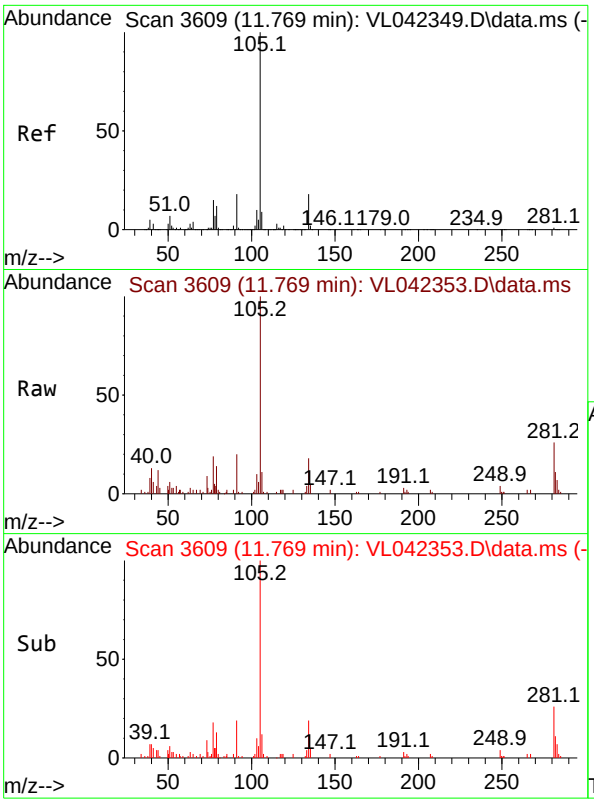


#66
Benzyl Chloride
Concen: 0.055 ppbv
RT: 11.617 min Scan# 3562
Delta R.T. 0.000 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

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#



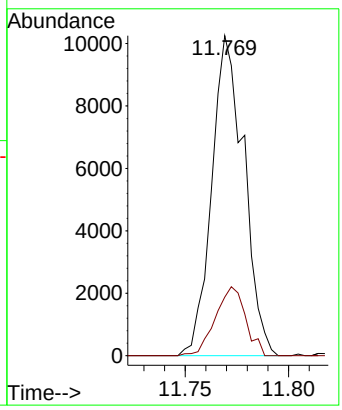


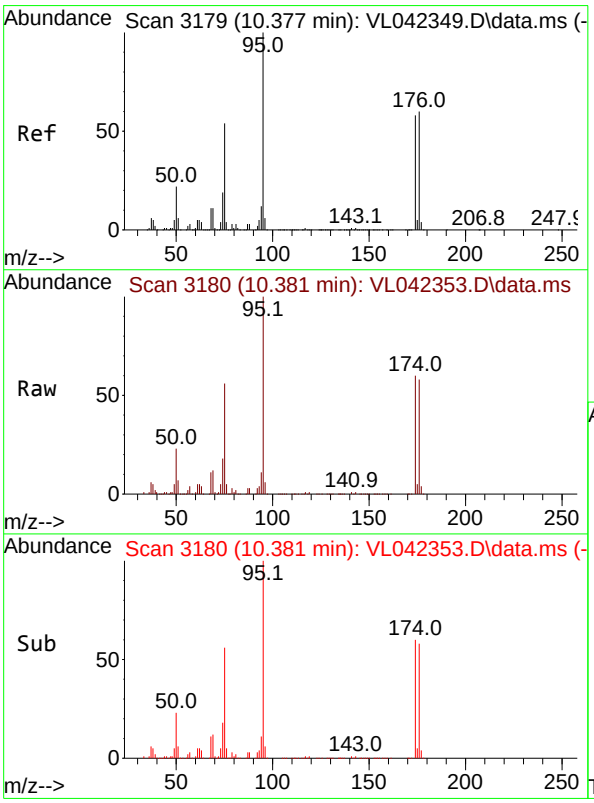
#67
sec-Butylbenzene
Concen: 0.117 ppbv
RT: 11.769 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion:105 Resp: 11126

Ion	Ratio	Lower	Upper
105	100		
134	20.2	14.6	21.8

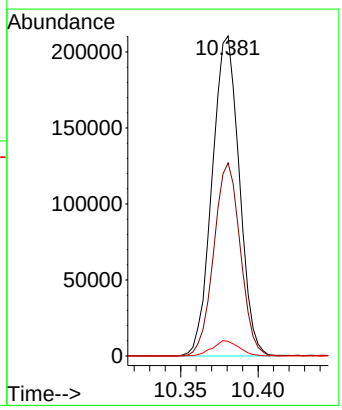


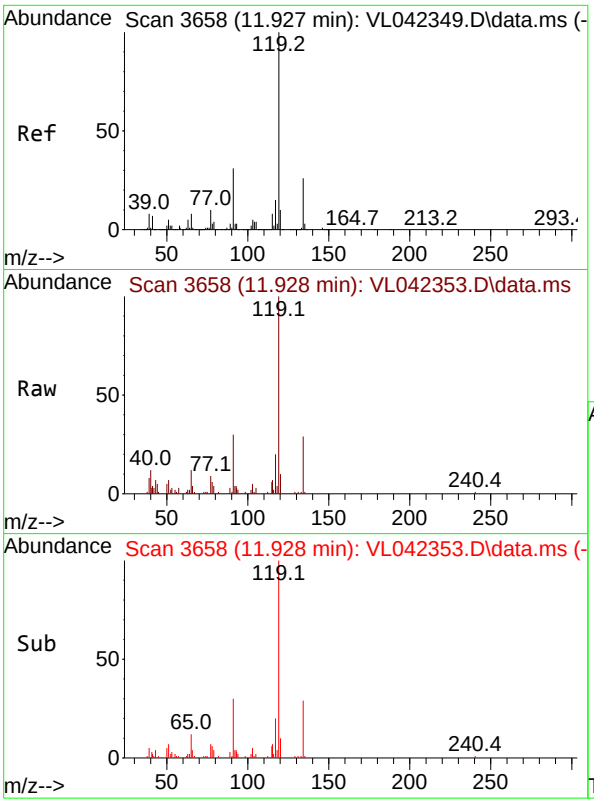


#68
1-Bromo-4-Fluorobenzene
Concen: 9.906 ppbv
RT: 10.381 min Scan# 3180
Delta R.T. 0.004 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

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



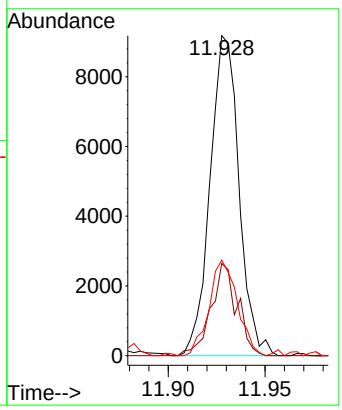


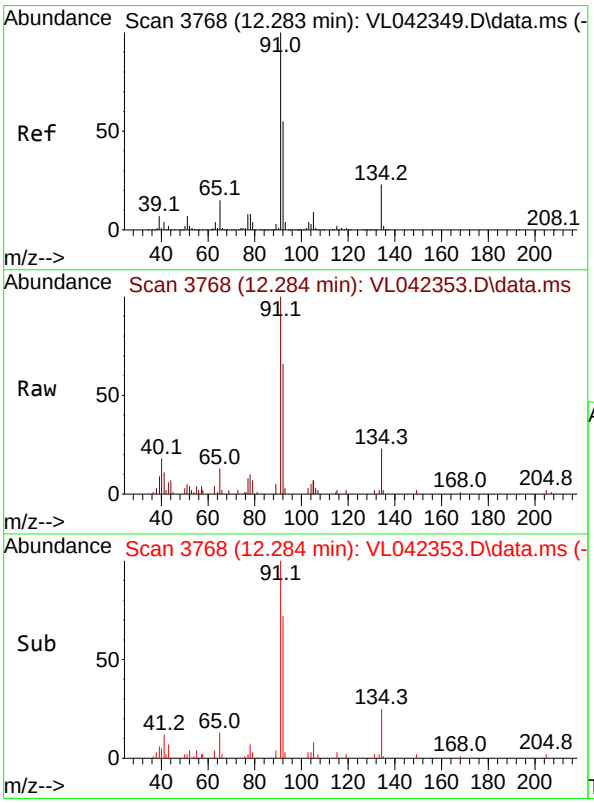
#69
p-Isopropyltoluene
Concen: 0.115 ppbv
RT: 11.928 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

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

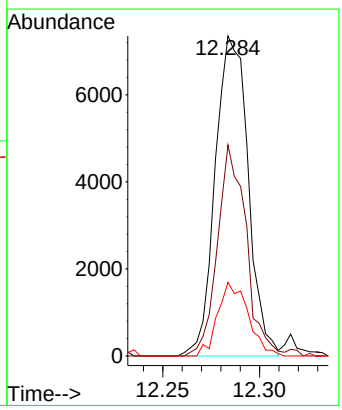


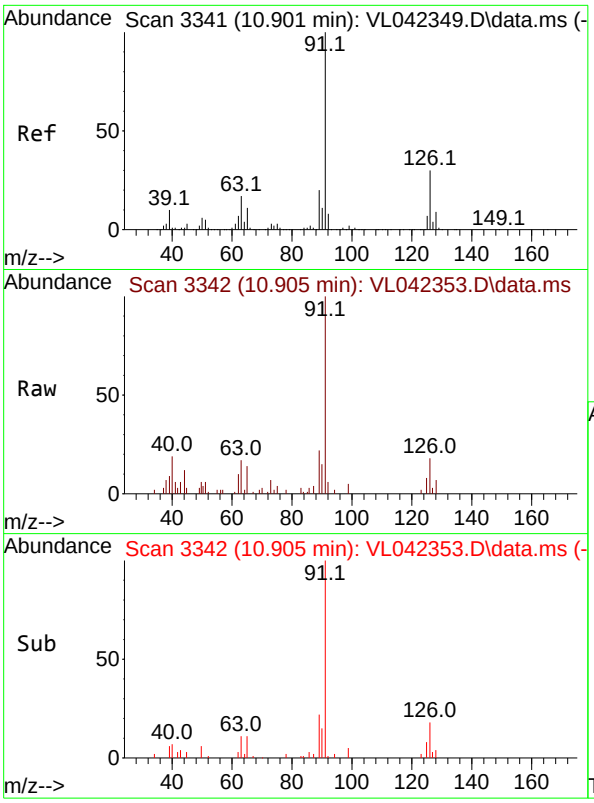


#70
n-Butylbenzene
Concen: 0.101 ppbv
RT: 12.284 min Scan# 3768
Delta R.T. 0.000 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

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



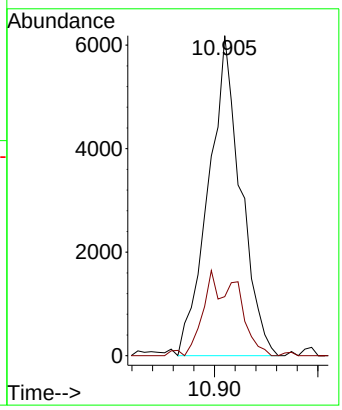


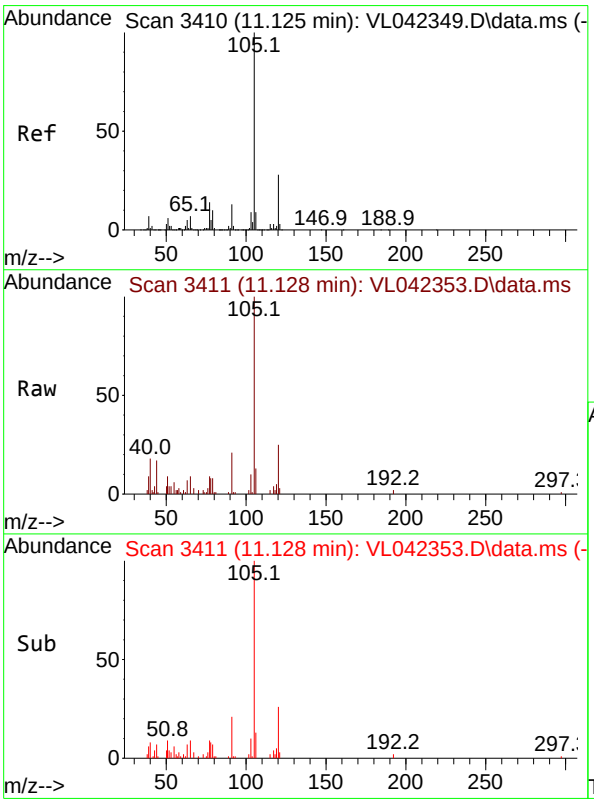
#71
2-Chlorotoluene
Concen: 0.115 ppbv
RT: 10.905 min Scan# 3
Delta R.T. 0.004 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion: 91 Resp: 6703

Ion	Ratio	Lower	Upper
91	100		
126	29.2	11.4	45.4

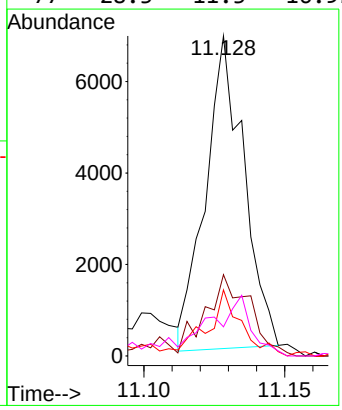


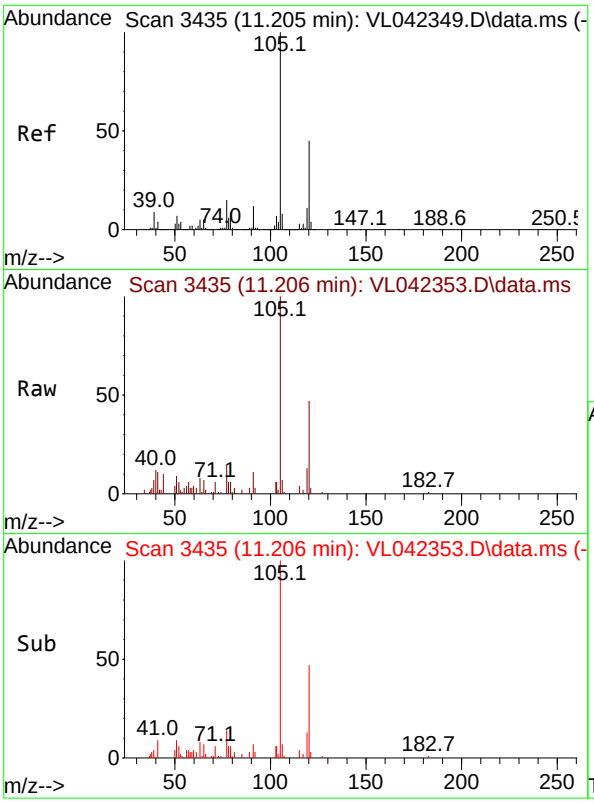


#72
4-Ethyltoluene
Concen: 0.104 ppbv
RT: 11.128 min Scan# 3411
Delta R.T. 0.004 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

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#



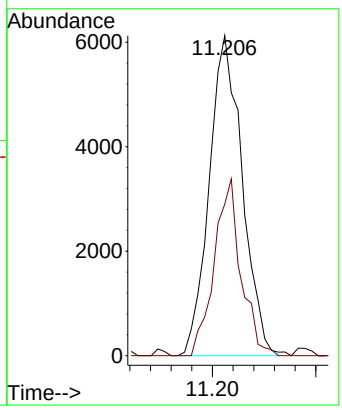


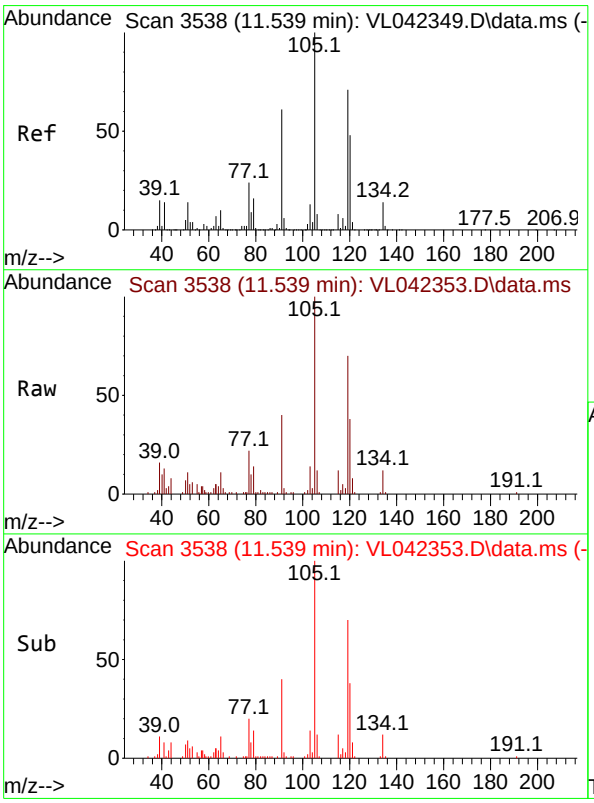
#73
1,3,5-Trimethylbenzene
Concen: 0.124 ppbv
RT: 11.206 min Scan# 34
Delta R.T. 0.000 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion:105 Resp: 6797

Ion	Ratio	Lower	Upper
105	100		
120	47.4	35.6	53.4

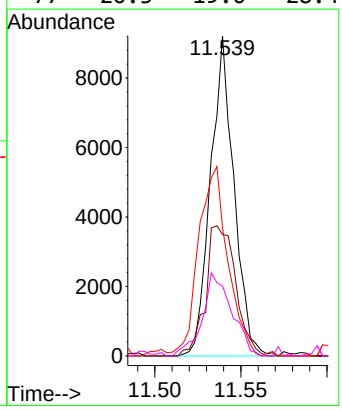


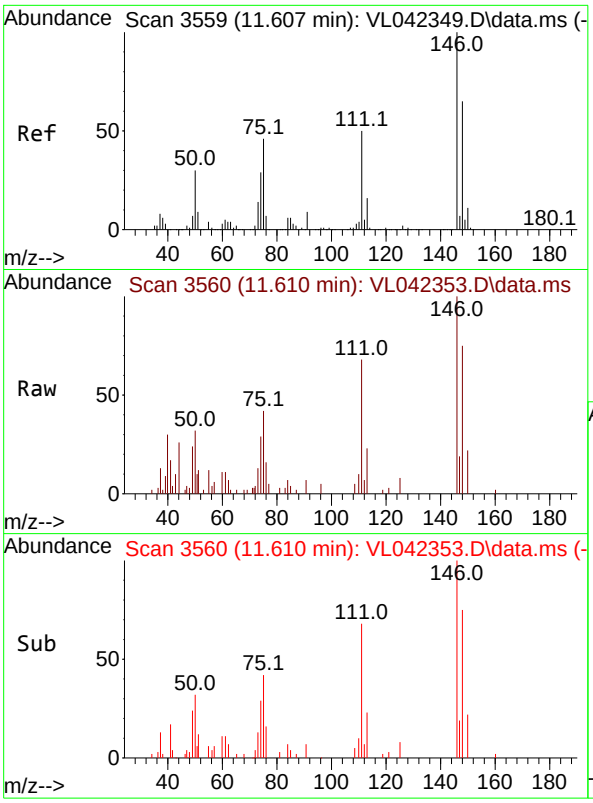


#74
1,2,4-Trimethylbenzene
Concen: 0.137 ppbv
RT: 11.539 min Scan# 3538
Delta R.T. 0.000 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

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



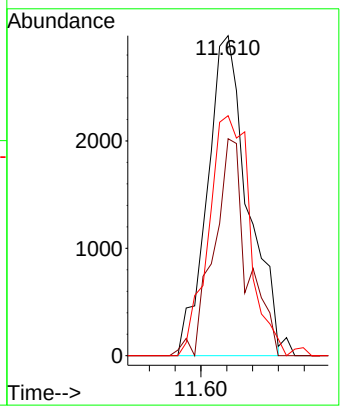


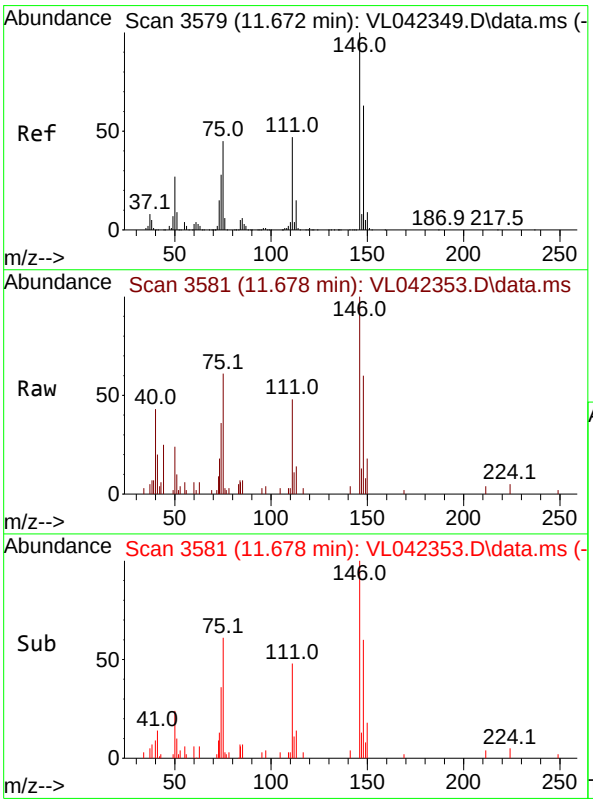
#75
1,3-Dichlorobenzene
Concen: 0.098 ppbv
RT: 11.610 min Scan# 3
Delta R.T. 0.004 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

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

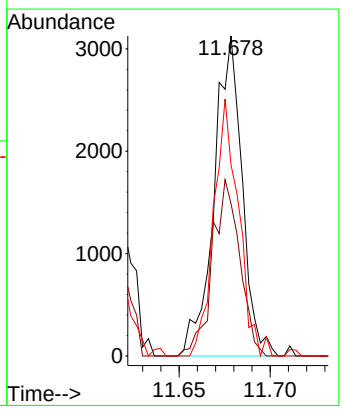


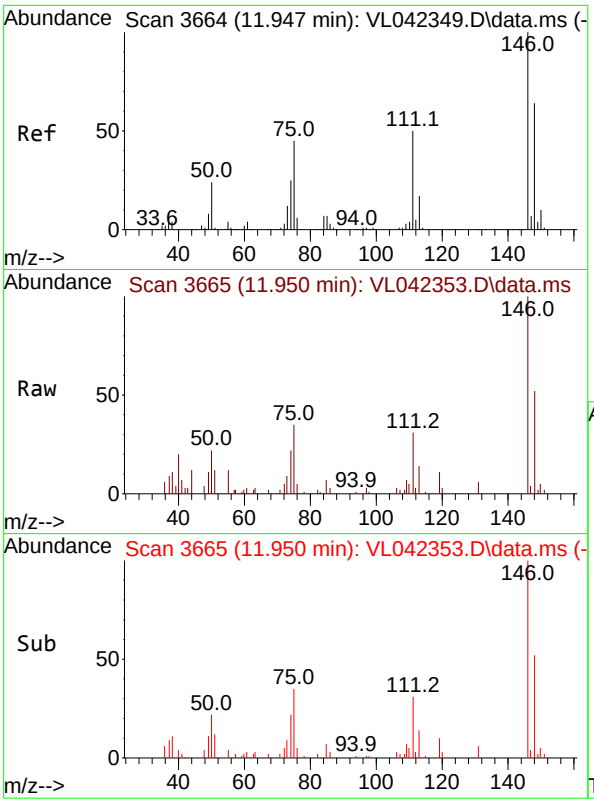


#76
1,4-Dichlorobenzene
Concen: 0.101 ppbv
RT: 11.678 min Scan# 3581
Delta R.T. 0.007 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

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



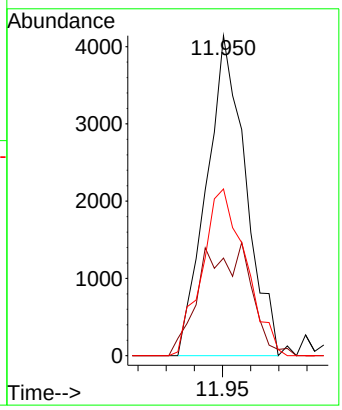


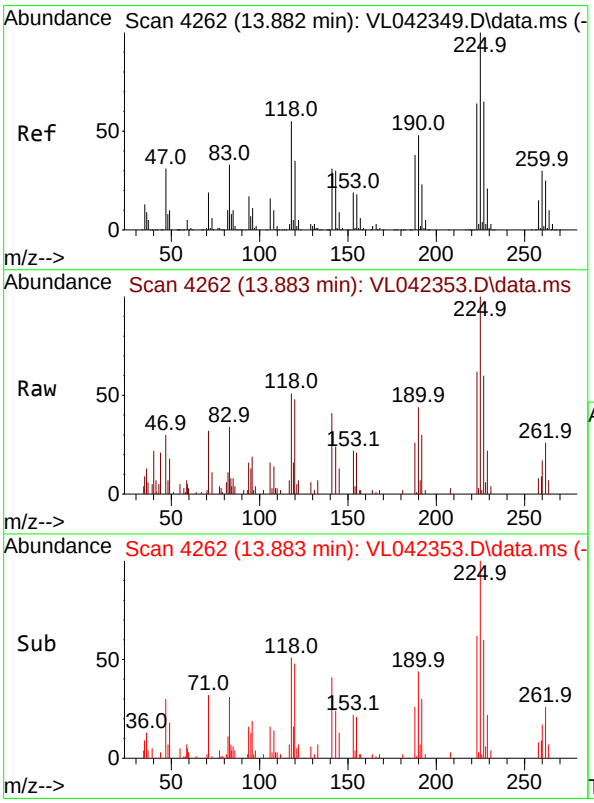
#77
1,2-Dichlorobenzene
Concen: 0.124 ppbv
RT: 11.950 min Scan# 3
Delta R.T. 0.004 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

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

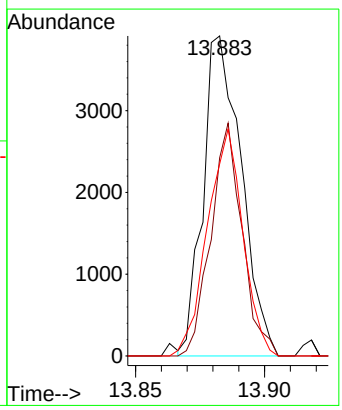


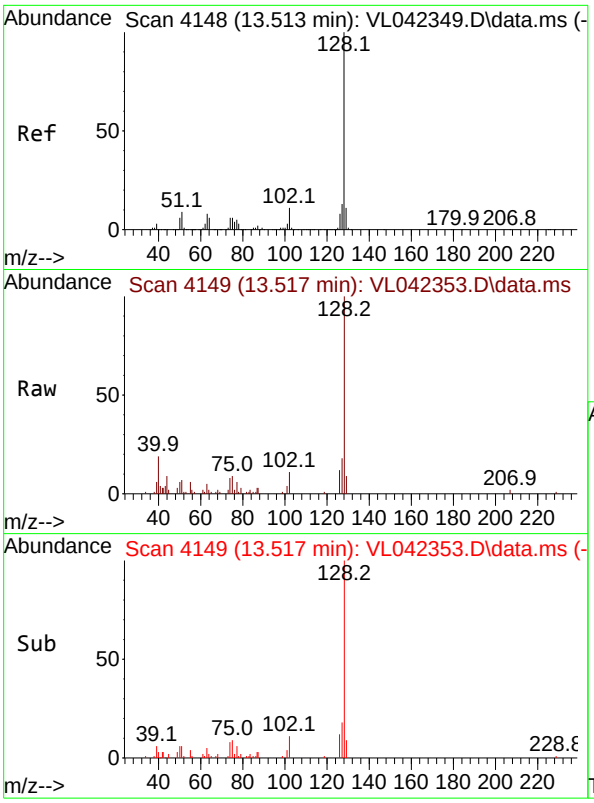


#78
Hexachloro-1,3-Butadiene
Concen: 0.124 ppbv
RT: 13.883 min Scan# 4262
Delta R.T. 0.000 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

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



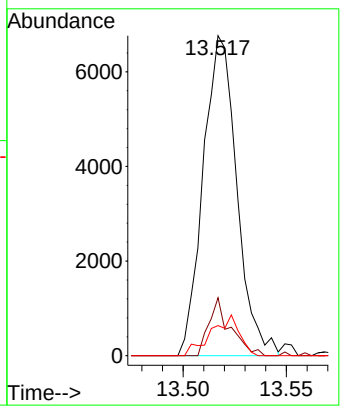


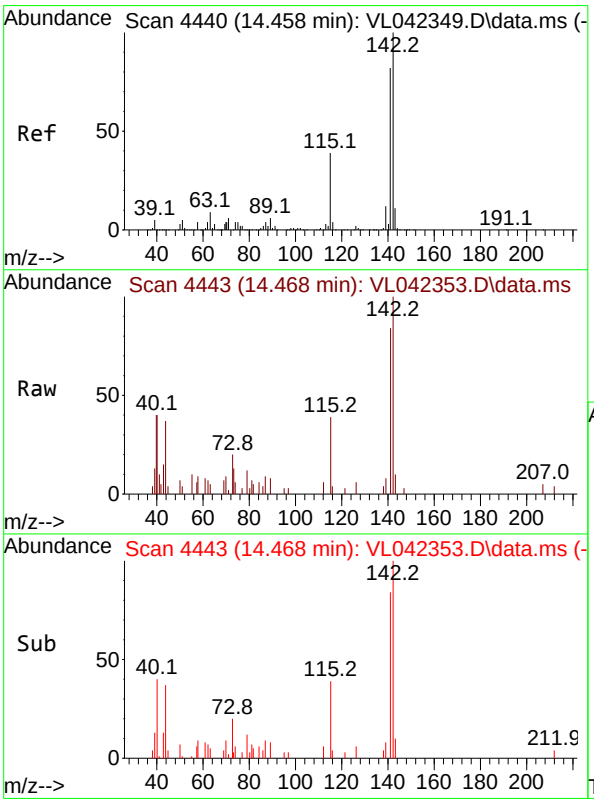
#79
Naphthalene
Concen: 0.100 ppbv
RT: 13.517 min Scan# 41
Delta R.T. 0.004 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

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

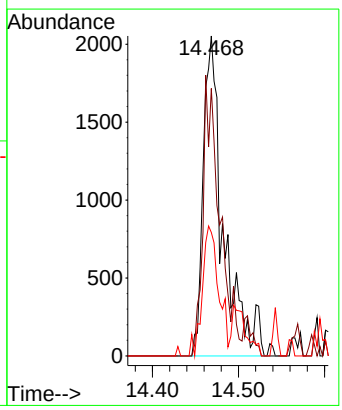


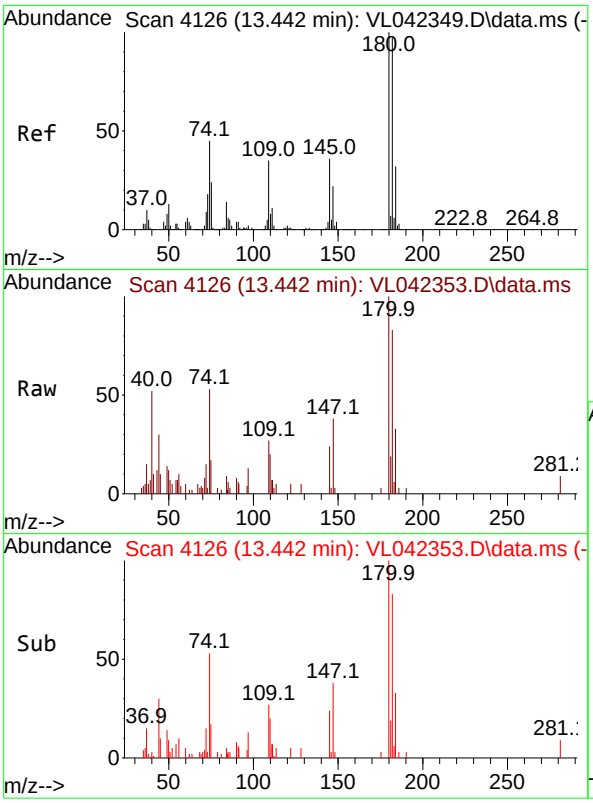


#80
Naphthalene,2-methyl-
Concen: 0.077 ppbv
RT: 14.468 min Scan# 4443
Delta R.T. 0.010 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

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#



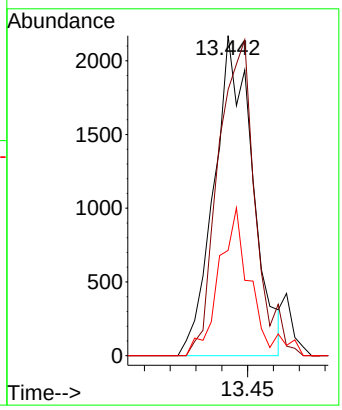


#81
1,2,4-Trichlorobenzene
Concen: 0.069 ppbv
RT: 13.442 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

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

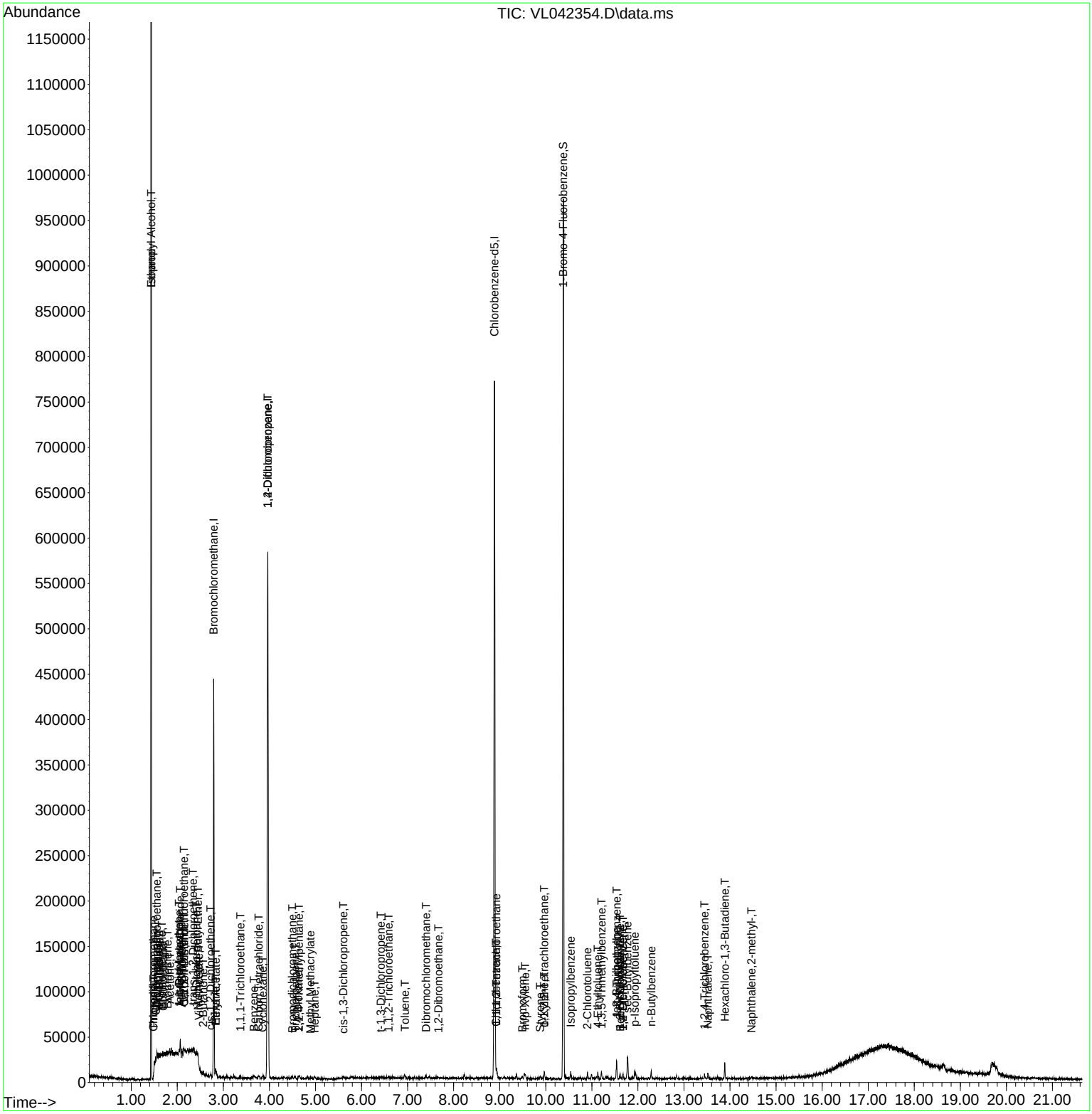
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
54) 1,2-Dibromoethane	7.668	107	422	0.021	ppbv	#	12
56) 1,1,1,2-Tetrachloroethane	8.927	131	589	0.031	ppbv	#	1
57) Chlorobenzene	8.920	112	567	0.017	ppbv	#	74
59) m/p-Xylene	9.555	91	1648	0.033	ppbv	#	32
60) o-Xylene	9.966	91	1938	0.039	ppbv		84
61) Styrene	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

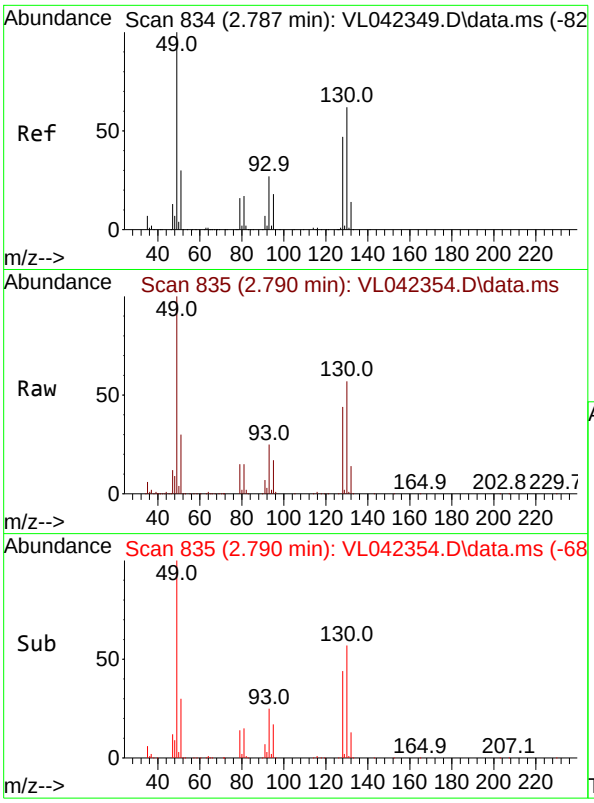
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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



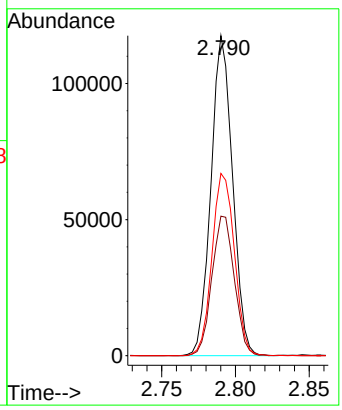


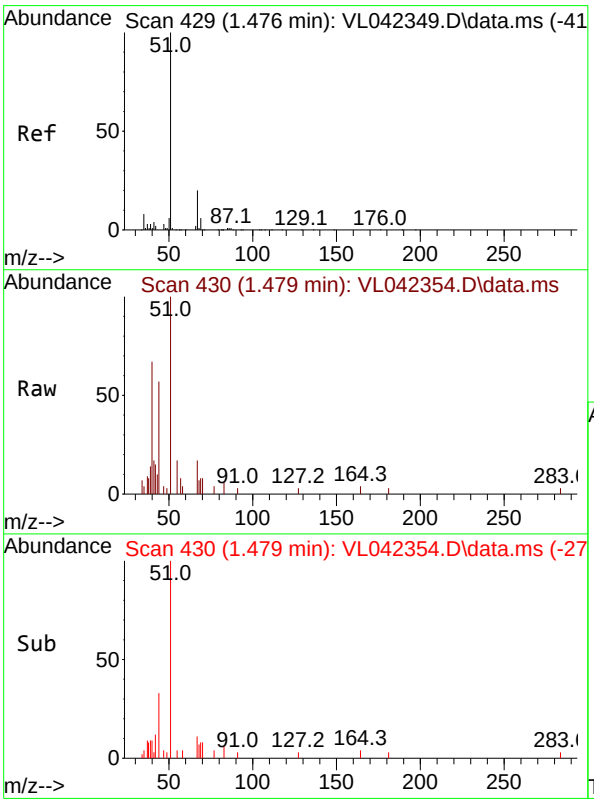
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

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

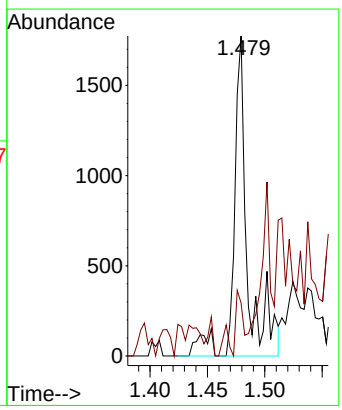


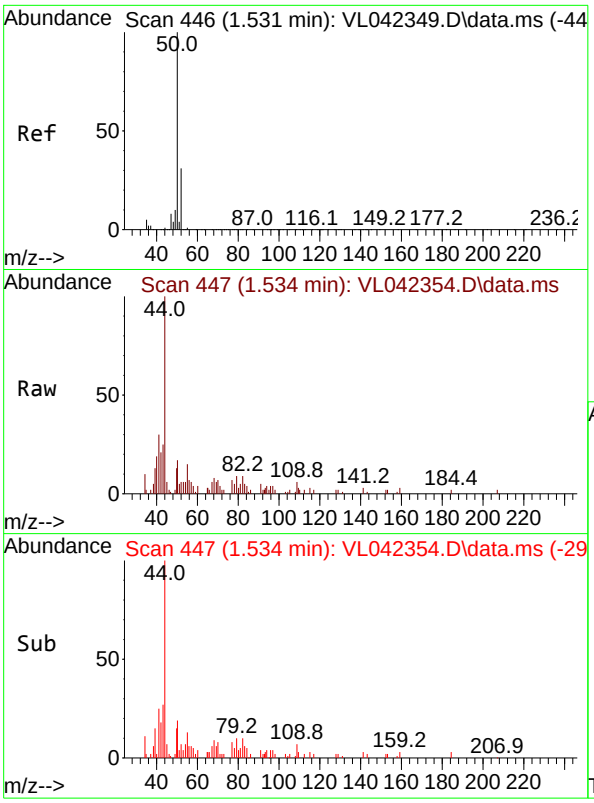


#3
Chlorodifluoromethane
Concen: 0.070 ppbv
RT: 1.479 min Scan# 430
Delta R.T. 0.003 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Tgt Ion: 51 Resp: 1404

Ion	Ratio	Lower	Upper
51	100		
67	30.7	16.2	24.4#



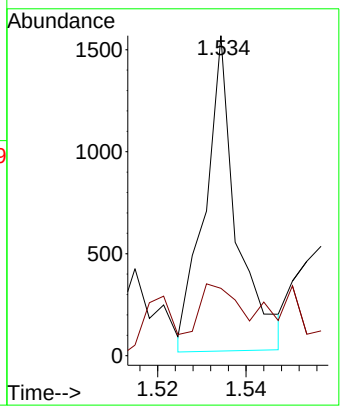


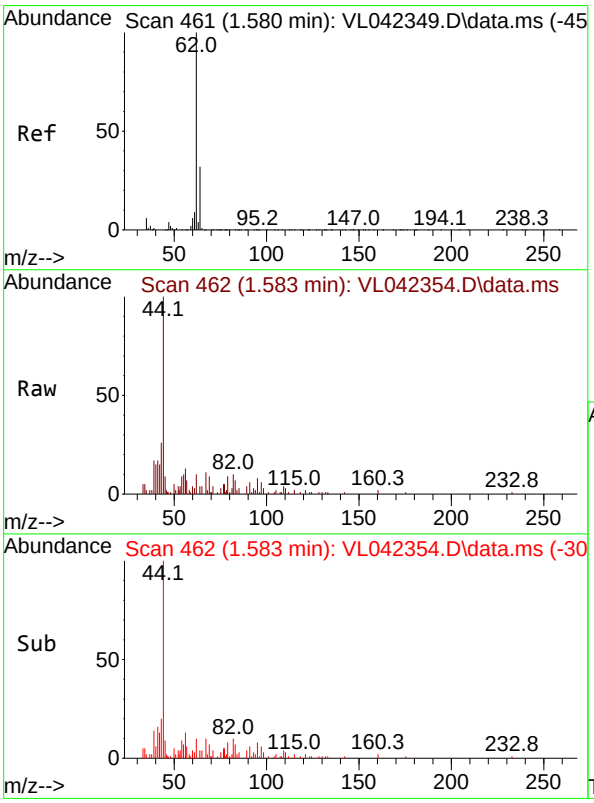
#4
Chloromethane
Concen: 0.092 ppbv
RT: 1.534 min Scan# 44
Delta R.T. 0.003 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion: 50 Resp: 773

Ion	Ratio	Lower	Upper
50	100		
52	15.3	24.7	37.1#

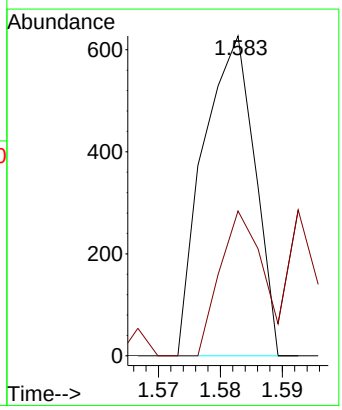


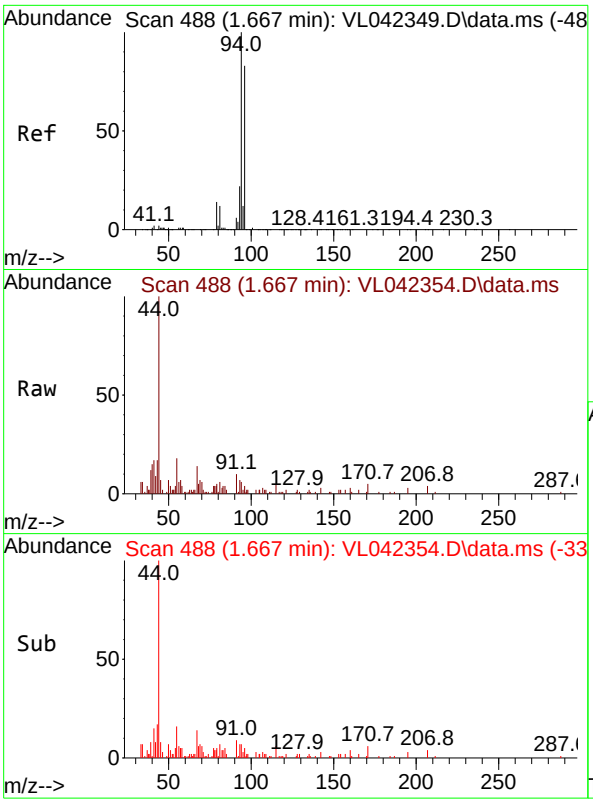


#5
Vinyl Chloride
Concen: 0.040 ppbv
RT: 1.583 min Scan# 462
Delta R.T. 0.003 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Tgt Ion: 62 Resp: 361

Ion	Ratio	Lower	Upper
62	100		
64	45.3	25.4	38.0#



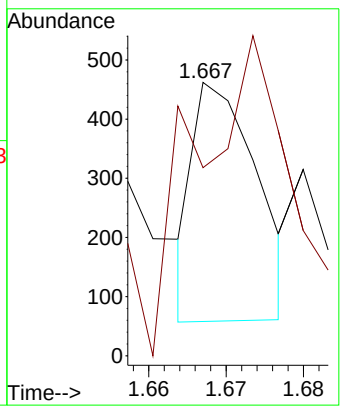


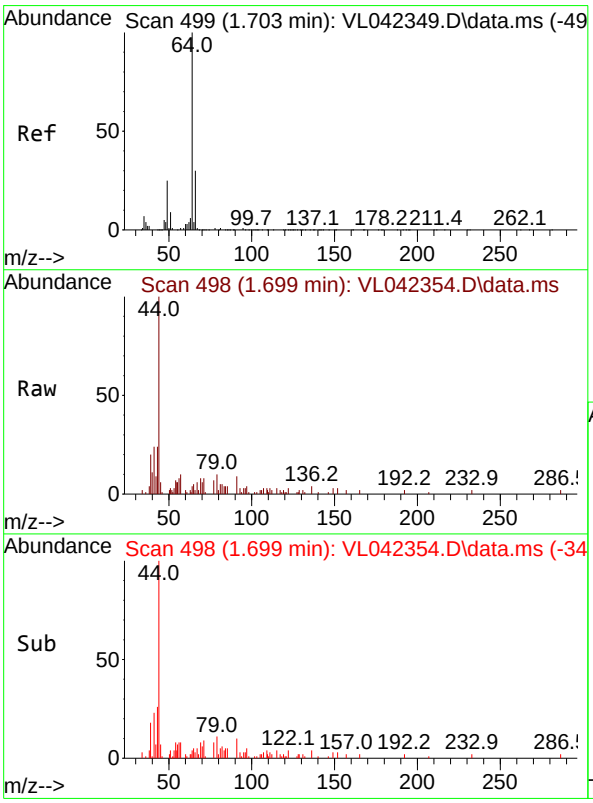
#6
Bromomethane
Concen: 0.059 ppbv
RT: 1.667 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion: 94 Resp: 232

Ion	Ratio	Lower	Upper
94	100		
96	0.0	66.2	99.2#

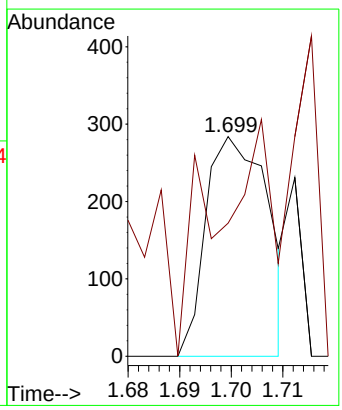


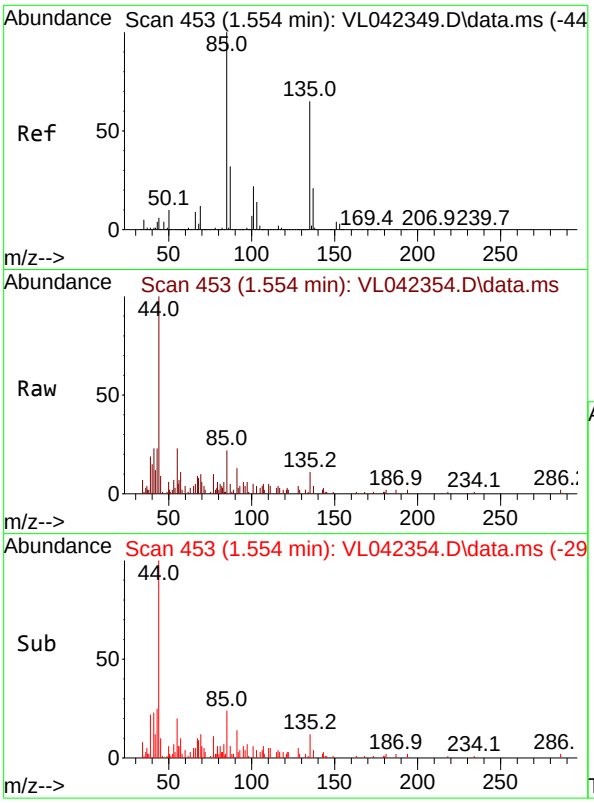


#7
Chloroethane
Concen: 0.072 ppbv
RT: 1.699 min Scan# 498
Delta R.T. -0.003 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Tgt Ion: 64 Resp: 237

Ion	Ratio	Lower	Upper
64	100		
66	60.6	24.6	37.0#



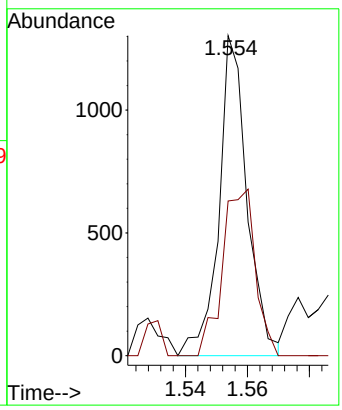


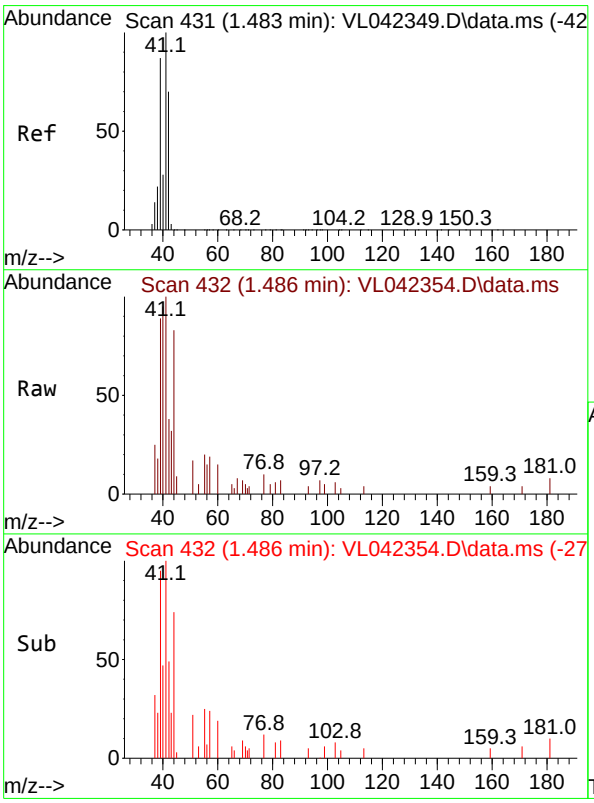
#8
Dichlorotetrafluoroethane
Concen: 0.045 ppbv
RT: 1.554 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion: 85 Resp: 823

Ion	Ratio	Lower	Upper
85	100		
135	69.1	52.2	78.2

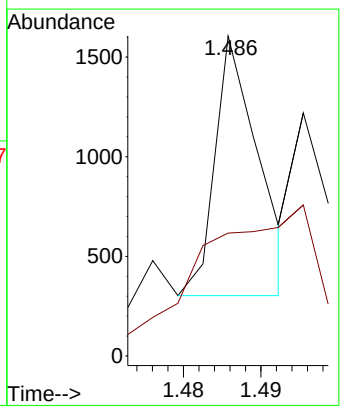


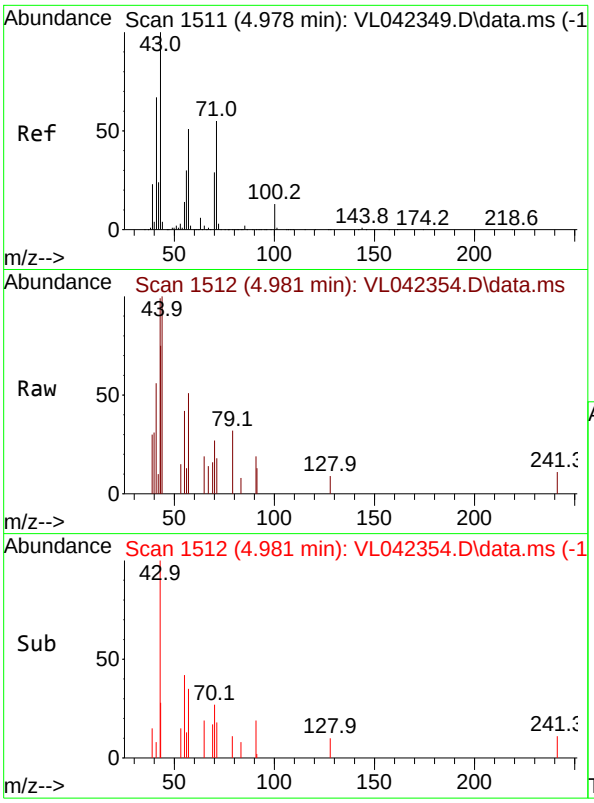


#9
Propene
Concen: 0.055 ppbv
RT: 1.486 min Scan# 432
Delta R.T. 0.003 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Tgt Ion: 41 Resp: 508

Ion	Ratio	Lower	Upper
41	100		
42	0.0	56.2	84.4#



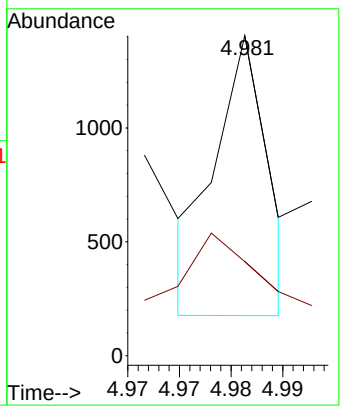


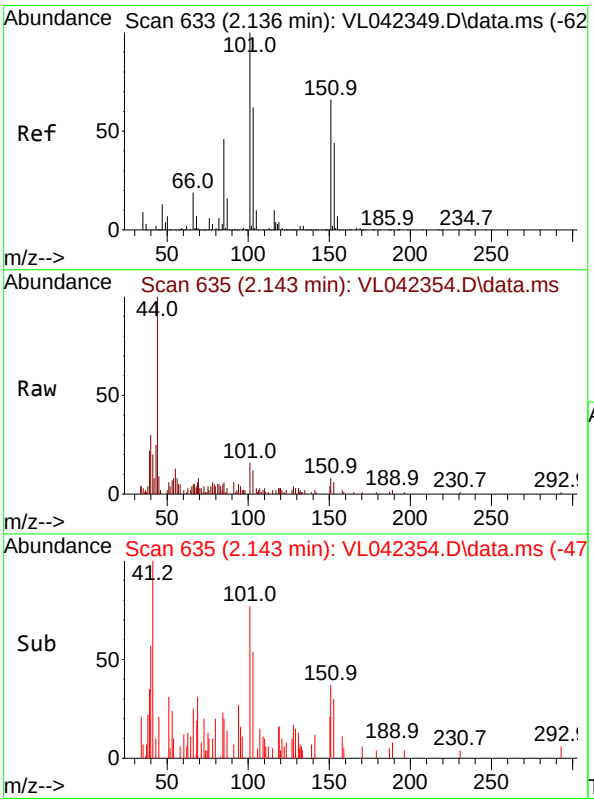
#10
Heptane
Concen: 0.018 ppbv
RT: 4.981 min Scan# 1
Delta R.T. 0.003 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion: 43 Resp: 435

Ion	Ratio	Lower	Upper
43	100		
57	283.4	39.9	59.9#

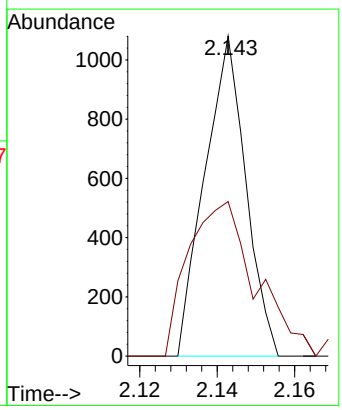


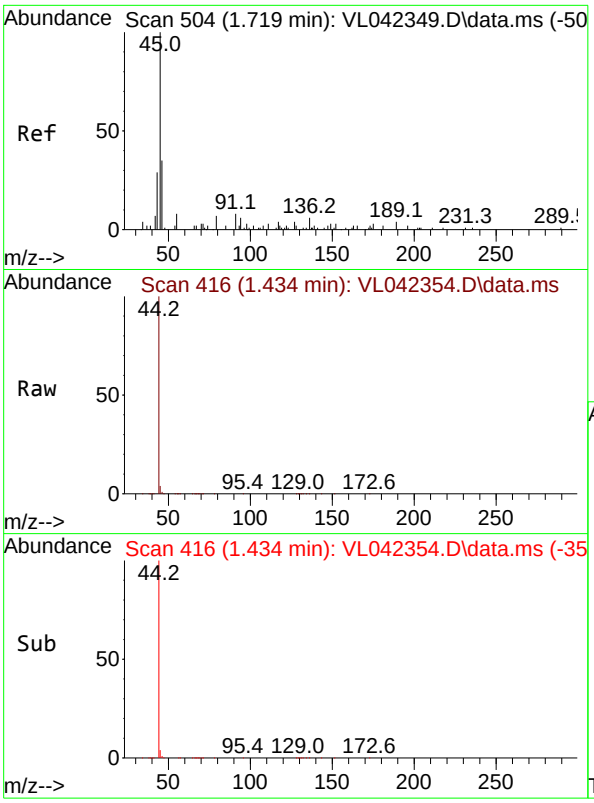


#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.048 ppbv
RT: 2.143 min Scan# 635
Delta R.T. 0.006 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Tgt Ion:101 Resp: 793

Ion	Ratio	Lower	Upper
101	100		
151	93.3	57.0	85.6#



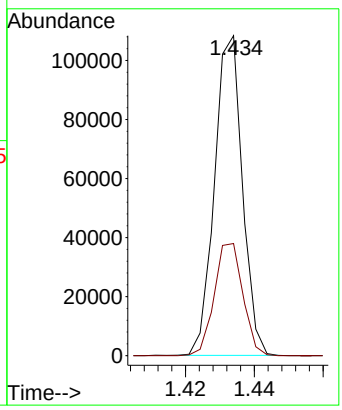


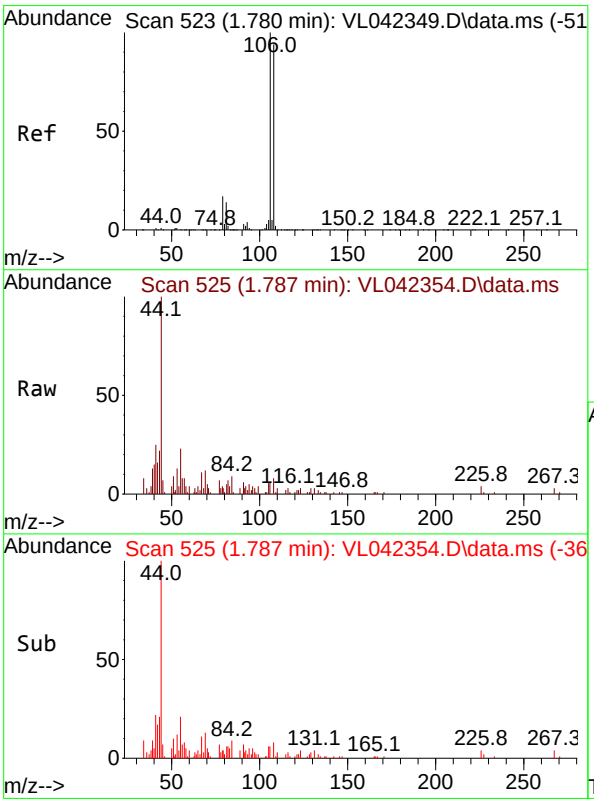
#13
Ethanol
Concen: 81.065 ppbv
RT: 1.434 min Scan# 4
Delta R.T. -0.285 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion: 45 Resp: 60931

Ion	Ratio	Lower	Upper
45	100		
46	36.1	21.9	87.7

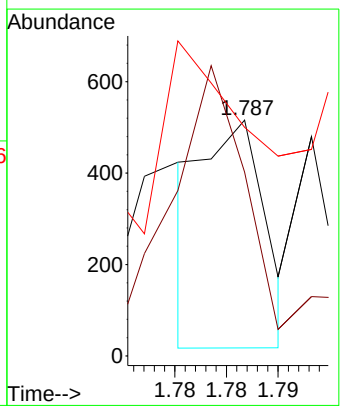


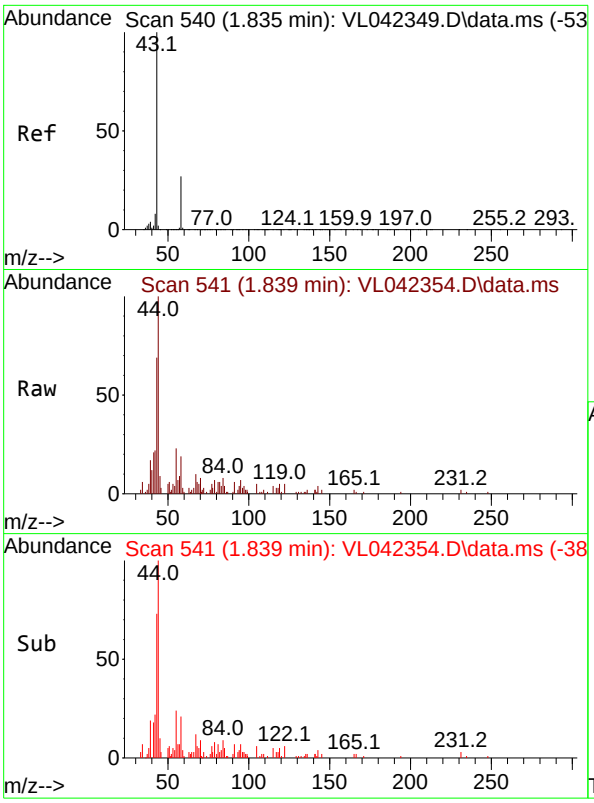


#14
Bromoethene
Concen: 0.033 ppbv
RT: 1.787 min Scan# 525
Delta R.T. 0.006 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

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#



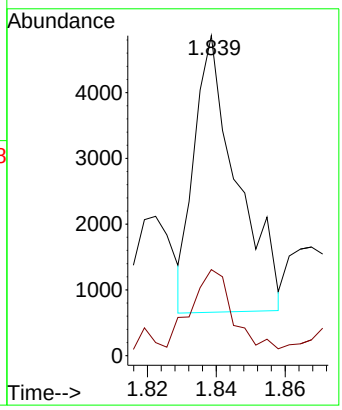


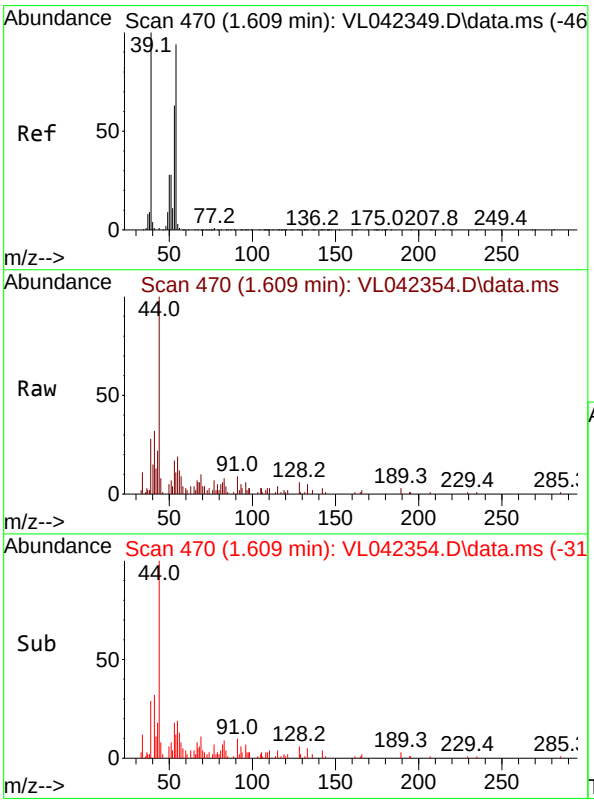
#15
Acetone
Concen: 0.183 ppbv
RT: 1.839 min Scan# 54
Delta R.T. 0.003 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion: 43 Resp: 3597

Ion	Ratio	Lower	Upper
43	100		
58	33.7	22.4	33.6#

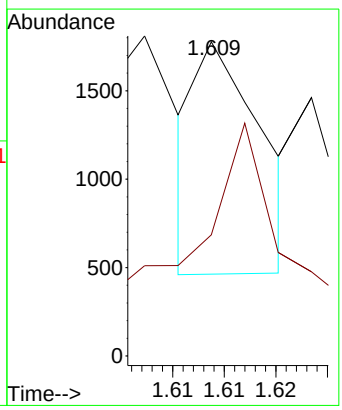


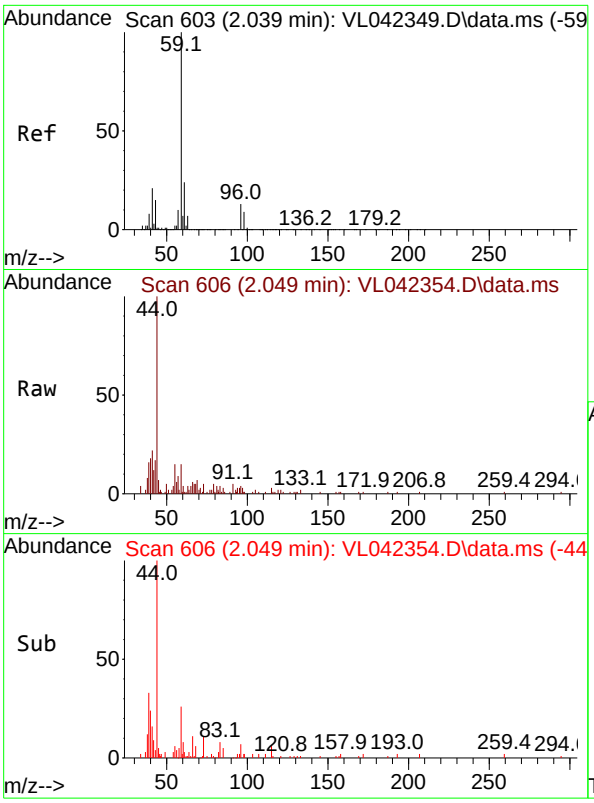


#16
1,3-Butadiene
Concen: 0.062 ppbv
RT: 1.609 min Scan# 470
Delta R.T. -0.000 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Tgt Ion: 39 Resp: 573

Ion	Ratio	Lower	Upper
39	100		
54	377.0	64.9	97.3#



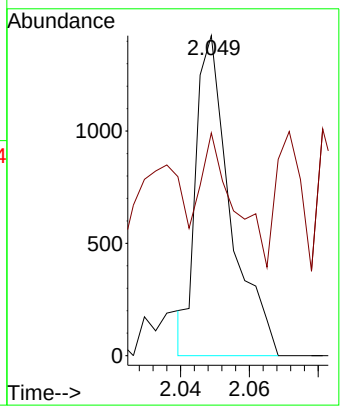


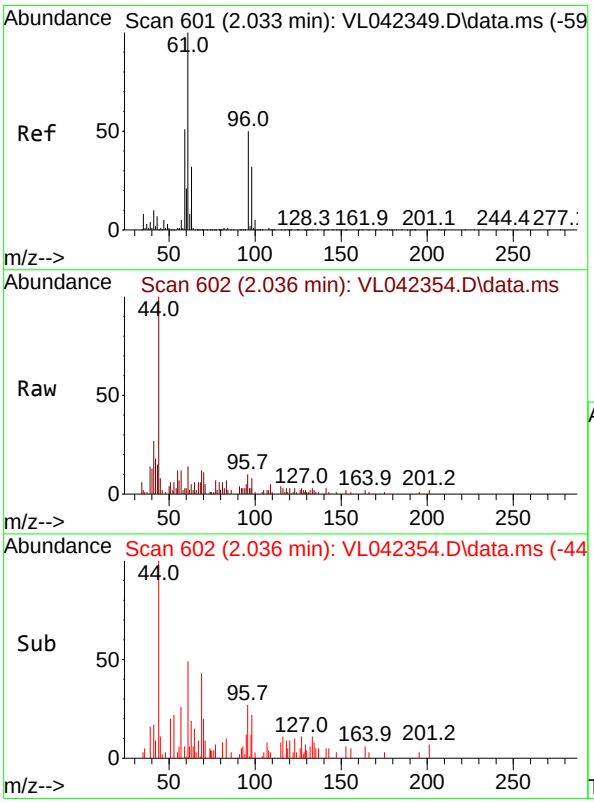
#17
tert-Butyl alcohol
Concen: 0.041 ppbv
RT: 2.049 min Scan# 6
Delta R.T. 0.010 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion: 59 Resp: 991

Ion	Ratio	Lower	Upper
59	100		
57	113.2	8.7	13.1#

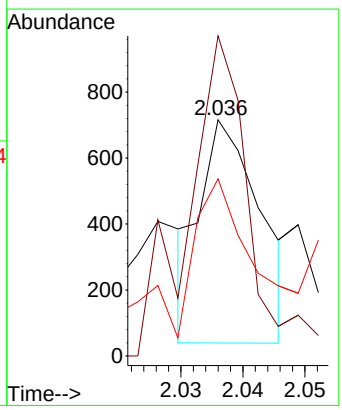


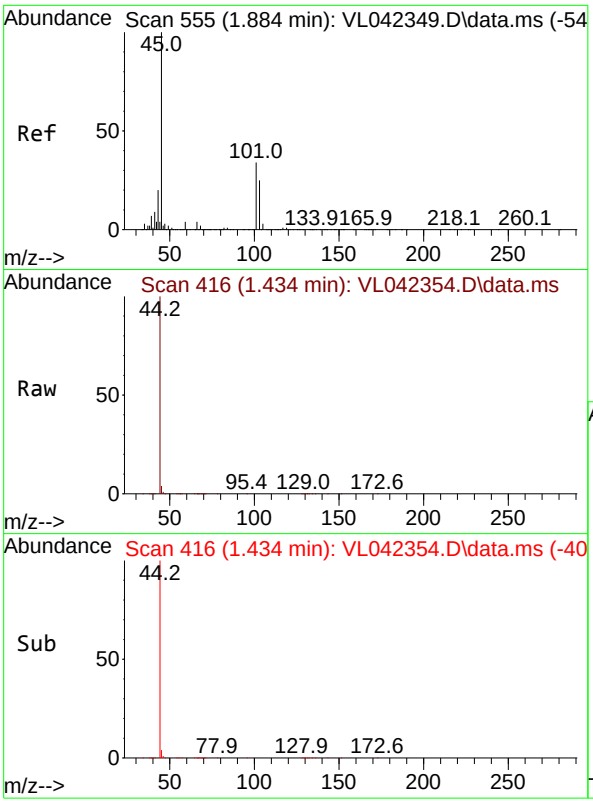


#18
1,1-Dichloroethene
Concen: 0.057 ppbv
RT: 2.036 min Scan# 602
Delta R.T. 0.003 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

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#



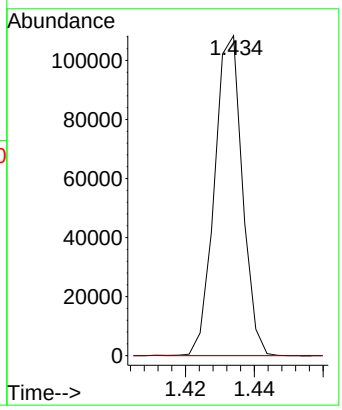


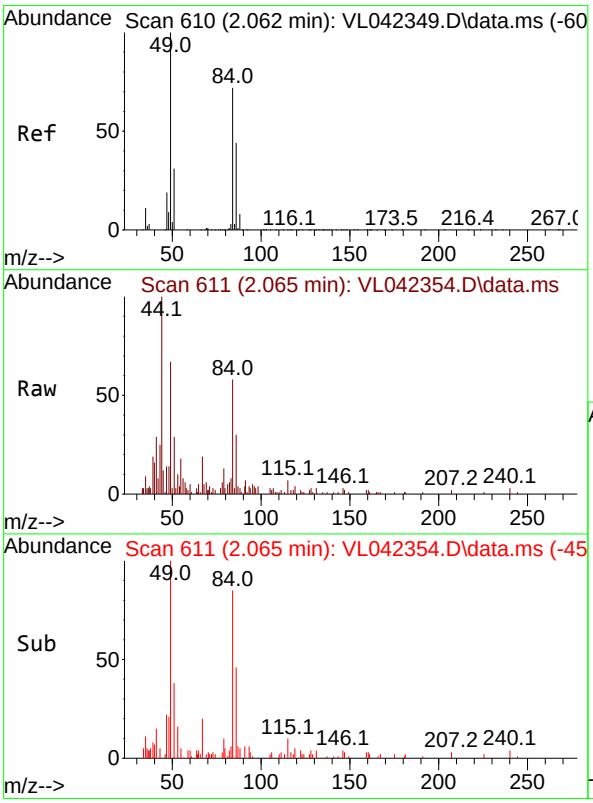
#19
Isopropyl Alcohol
Concen: 5.582 ppbv
RT: 1.434 min Scan# 4
Delta R.T. -0.450 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion: 45 Resp: 60931

Ion	Ratio	Lower	Upper
45	100		
58	0.2	34.5	51.7#

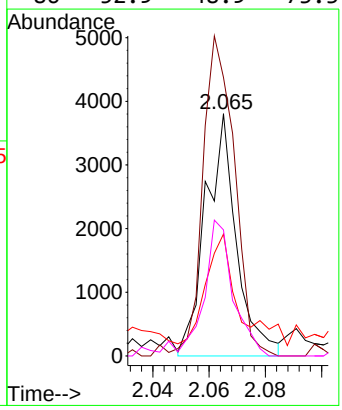


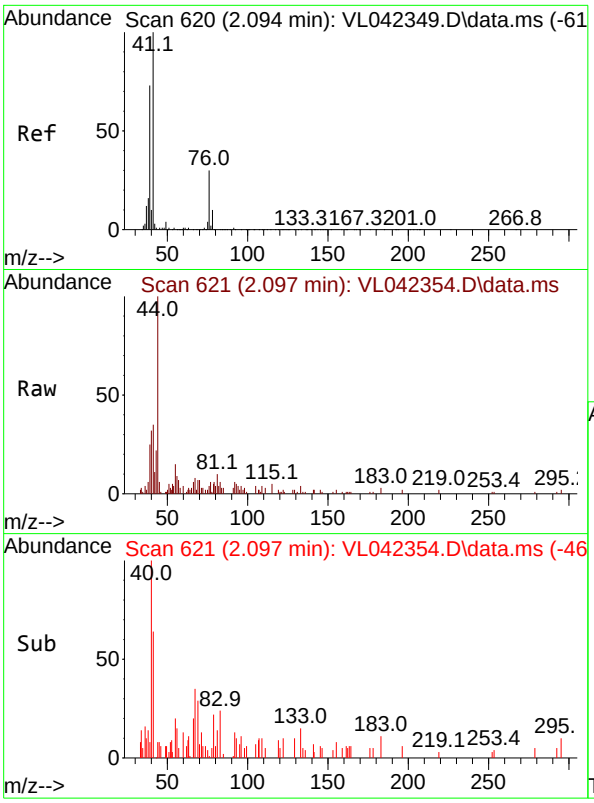


#20
Methylene Chloride
Concen: 0.377 ppbv
RT: 2.065 min Scan# 611
Delta R.T. 0.003 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

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



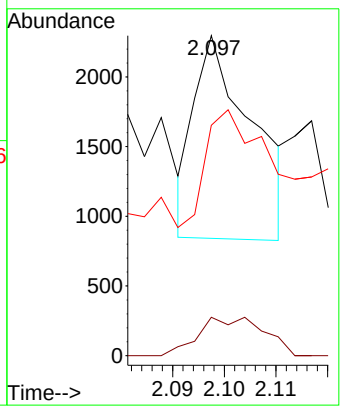


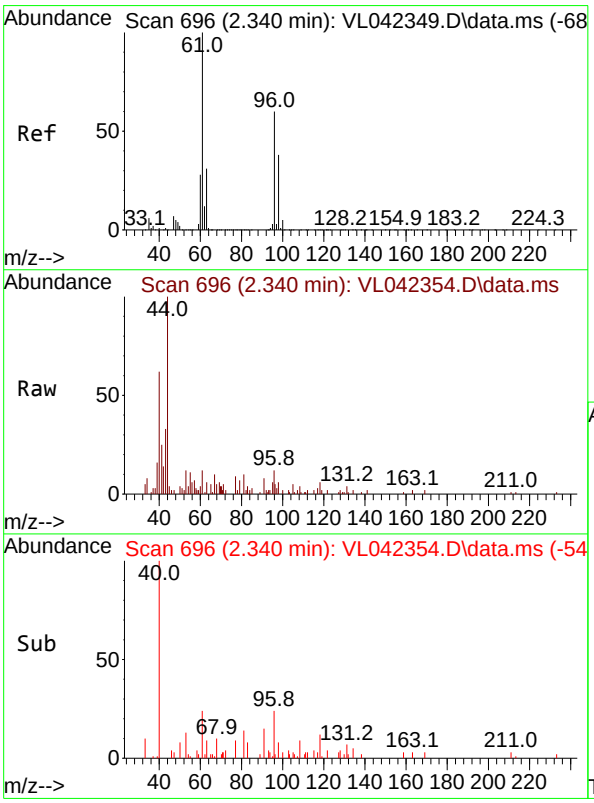
#21
Allyl Chloride
Concen: 0.083 ppbv
RT: 2.097 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

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#

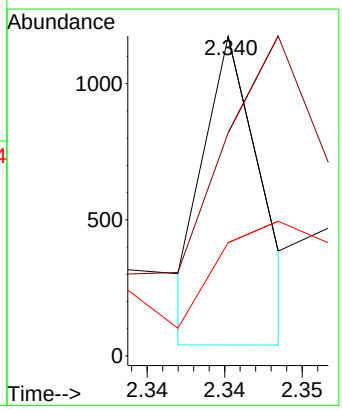


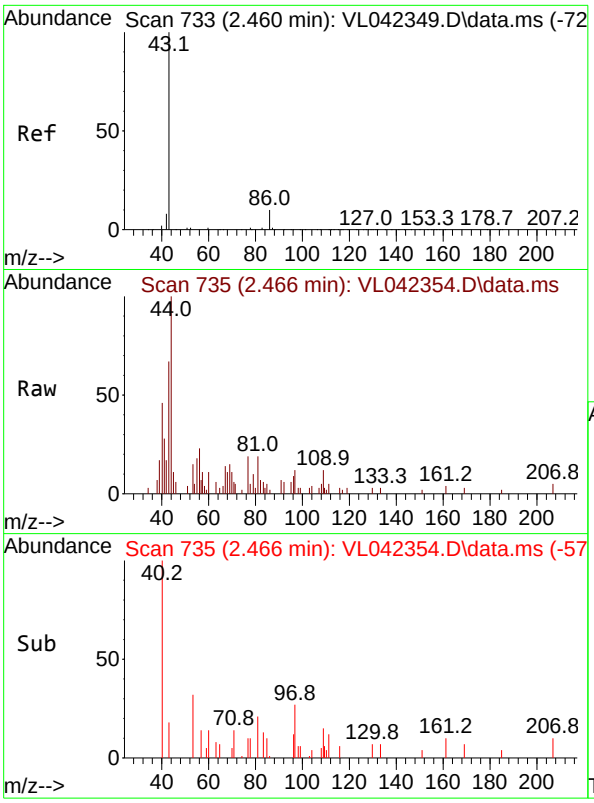


#22
trans-1,2-Dichloroethene
Concen: 0.033 ppbv
RT: 2.340 min Scan# 696
Delta R.T. -0.000 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

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#



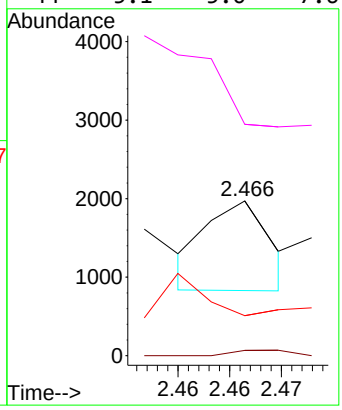


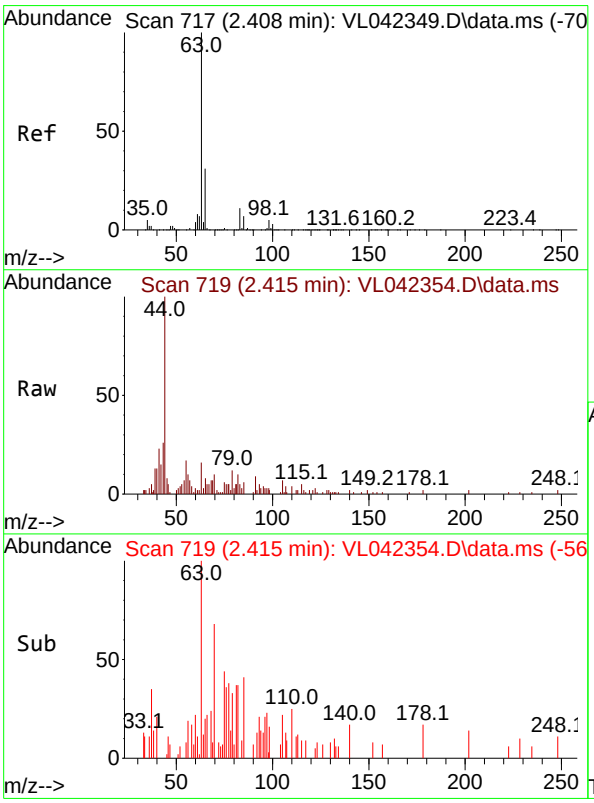
#23
Vinyl Acetate
Concen: 0.062 ppbv
RT: 2.466 min Scan# 7
Delta R.T. 0.006 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

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

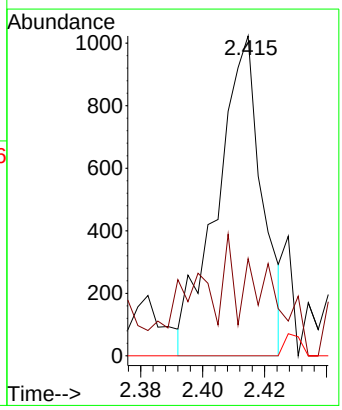


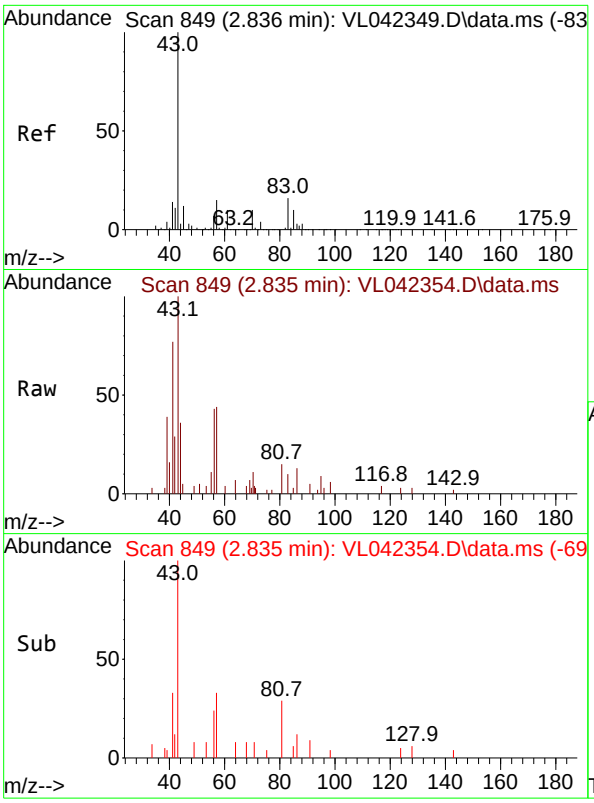


#24
1,1-Dichloroethane
Concen: 0.062 ppbv
RT: 2.415 min Scan# 719
Delta R.T. 0.006 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

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#



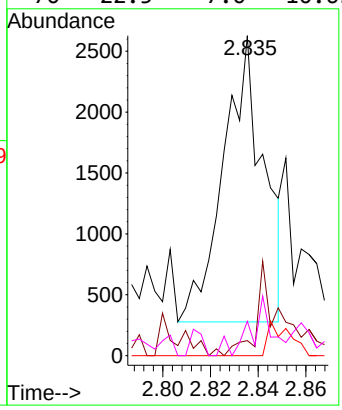


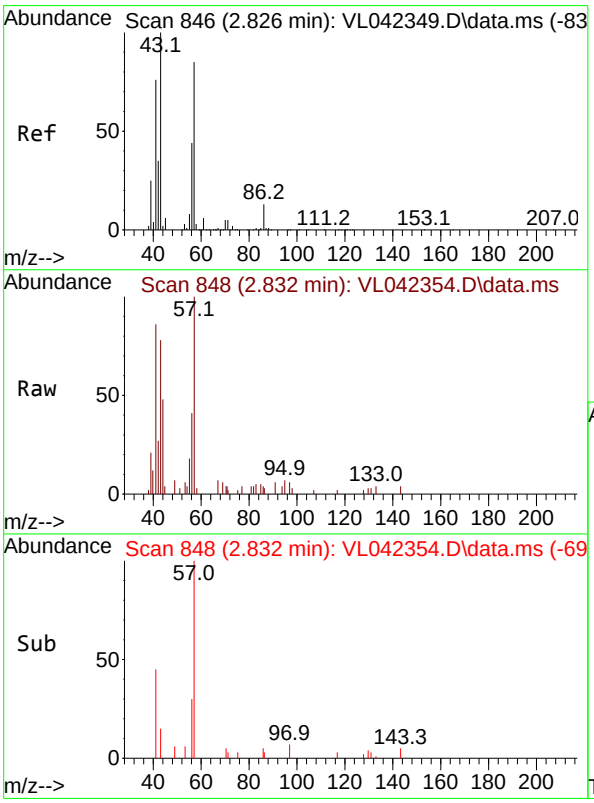
#25
Ethyl Acetate
Concen: 0.057 ppbv
RT: 2.835 min Scan# 84
Delta R.T. -0.000 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

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#

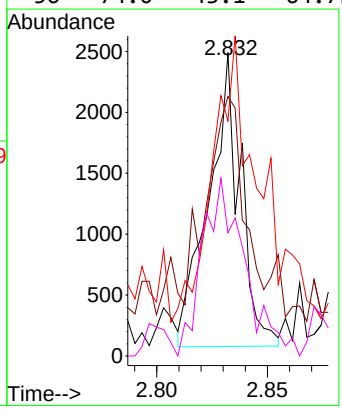


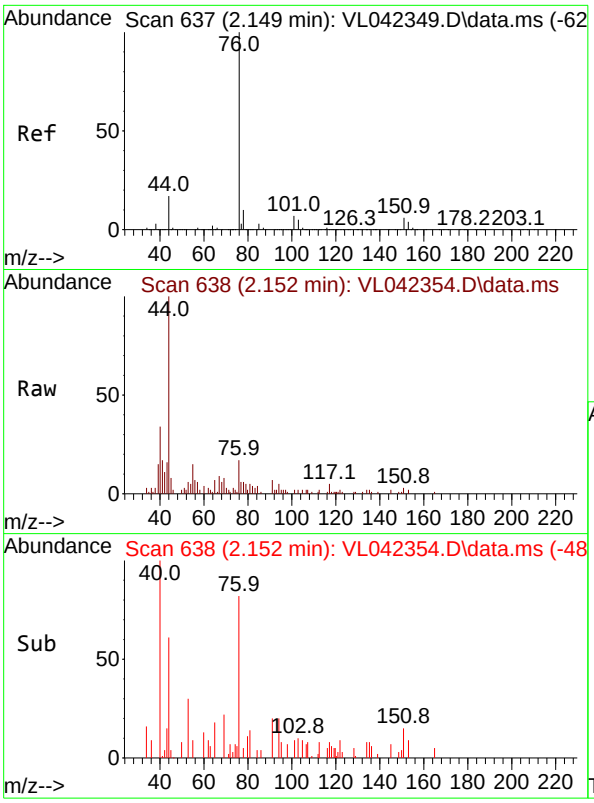


#26
Hexane
Concen: 0.122 ppbv
RT: 2.832 min Scan# 848
Delta R.T. 0.006 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

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#



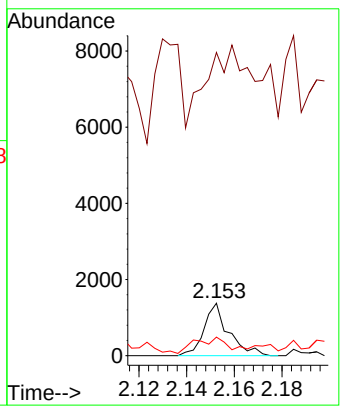


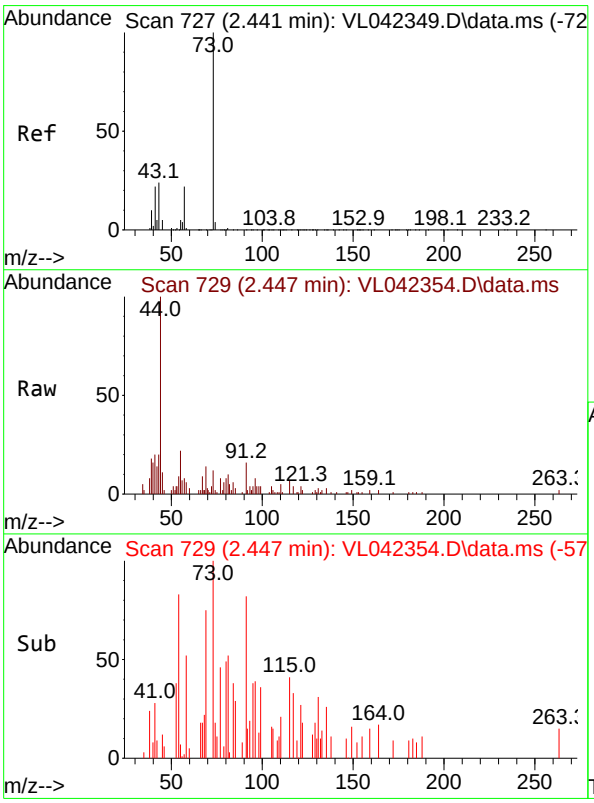
#27
Carbon Disulfide
Concen: 0.047 ppbv
RT: 2.152 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

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#

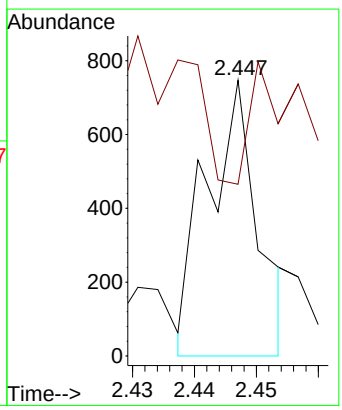


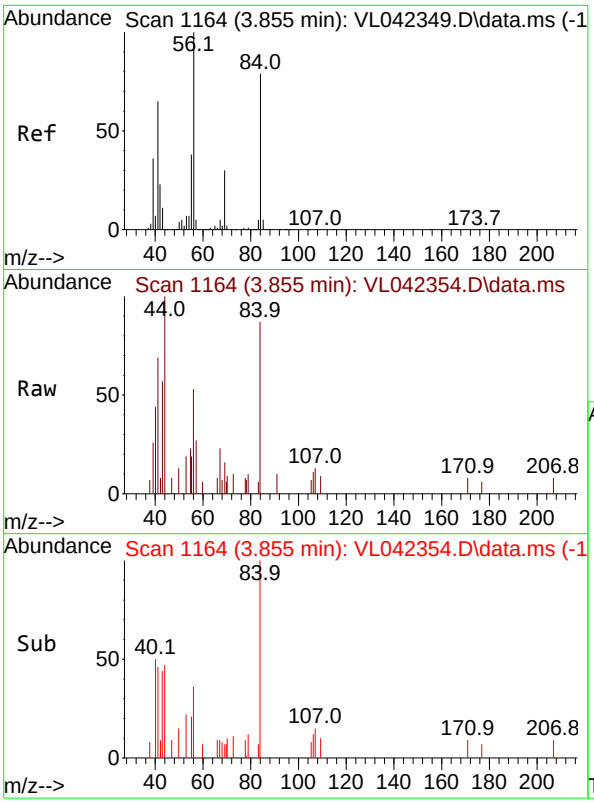


#28
Methyl tert-Butyl Ether
Concen: 0.033 ppbv
RT: 2.447 min Scan# 729
Delta R.T. 0.006 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Tgt Ion: 73 Resp: 426

Ion	Ratio	Lower	Upper
73	100		
57	0.0	21.3	31.9#



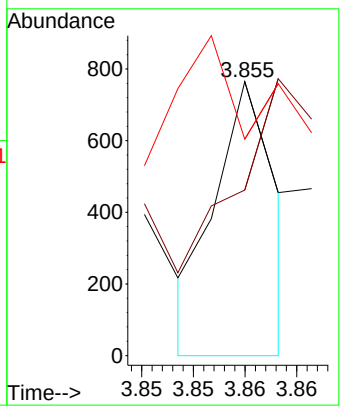


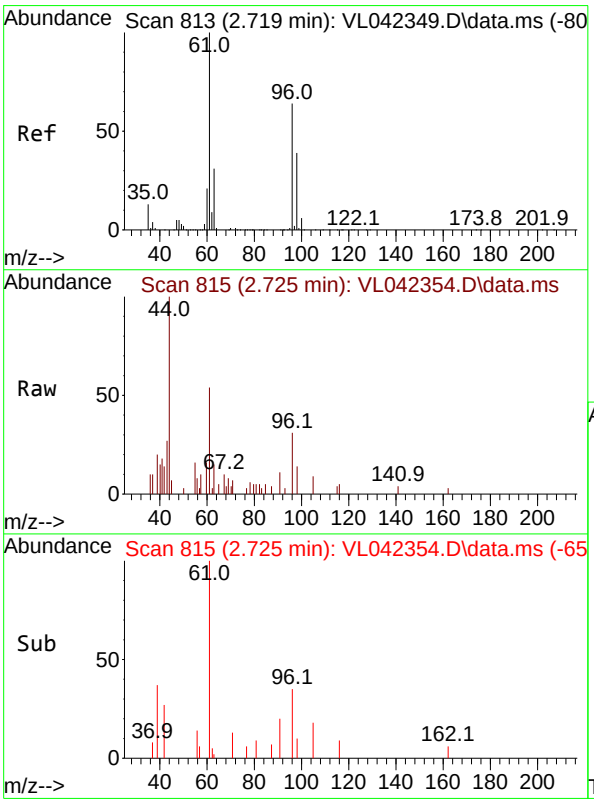
#30
Cyclohexane
Concen: 0.020 ppbv
RT: 3.855 min Scan# 11
Delta R.T. -0.000 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

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#

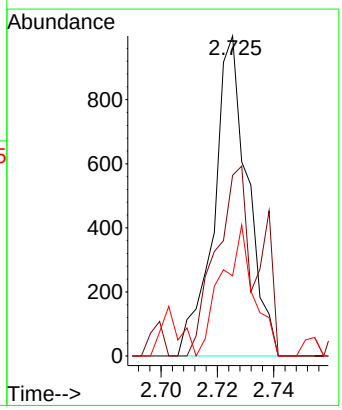


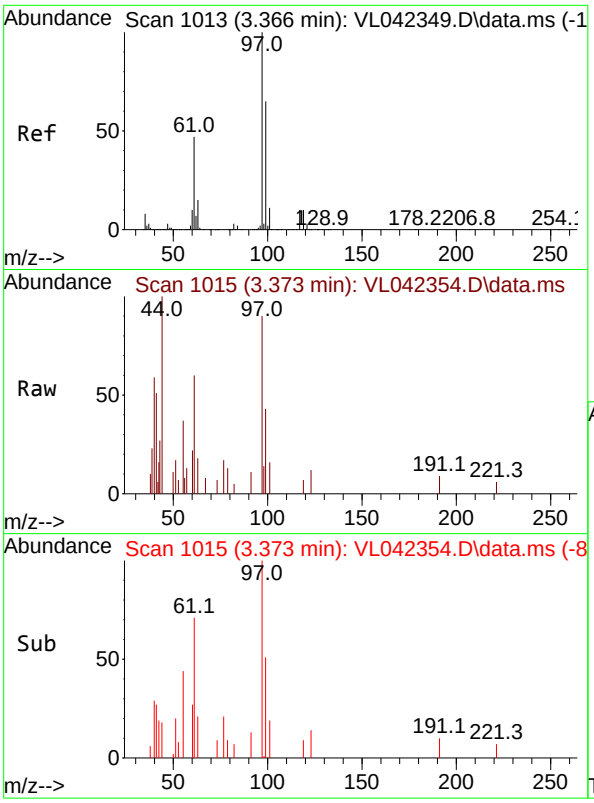


#31
cis-1,2-Dichloroethene
Concen: 0.045 ppbv
RT: 2.725 min Scan# 815
Delta R.T. 0.006 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

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#



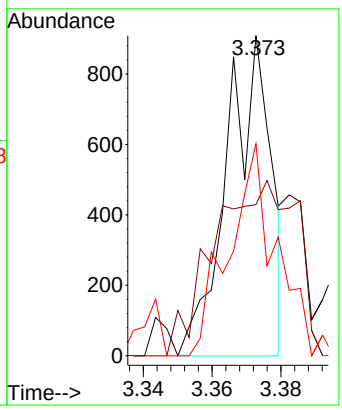


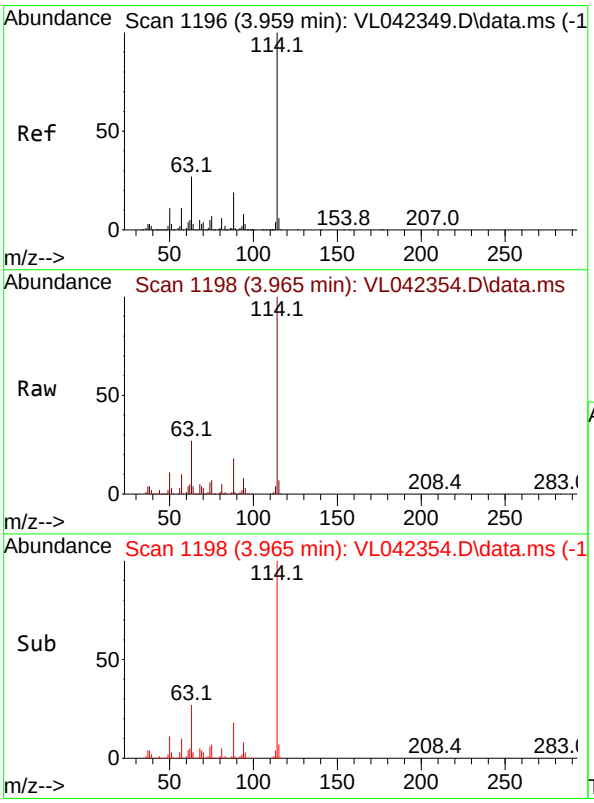
#32
1,1,1-Trichloroethane
Concen: 0.027 ppbv
RT: 3.373 min Scan# 1
Delta R.T. 0.006 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

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#

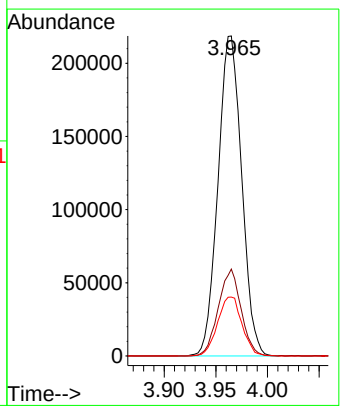


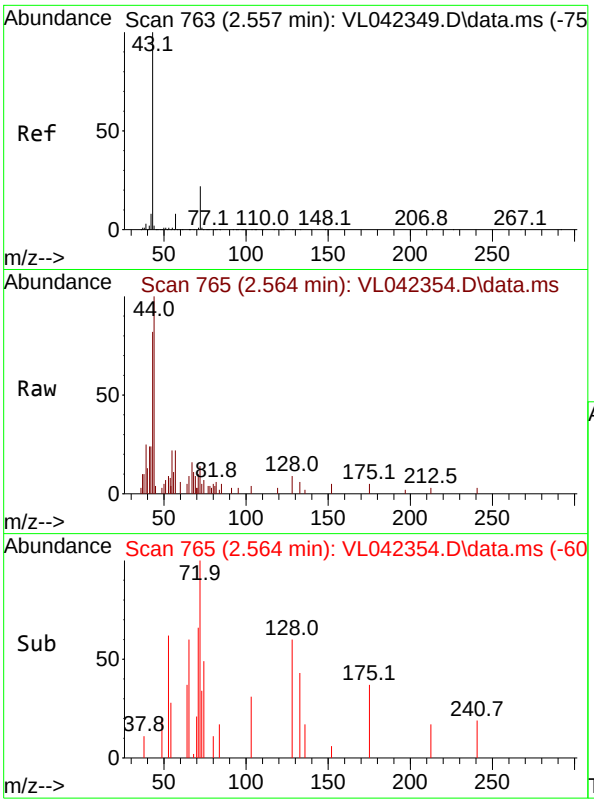


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.965 min Scan# 1198
Delta R.T. 0.006 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

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



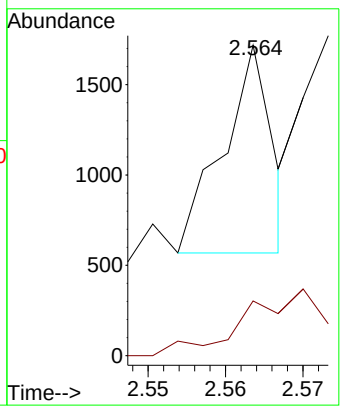


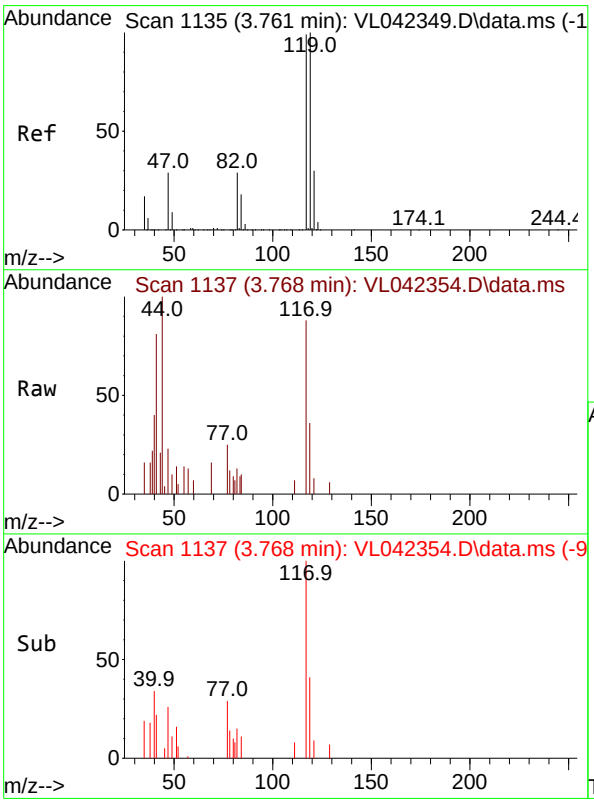
#34
2-Butanone
Concen: 0.018 ppbv
RT: 2.564 min Scan# 7
Delta R.T. 0.006 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion: 43 Resp: 510

Ion	Ratio	Lower	Upper
43	100		
72	0.0	18.2	27.2#

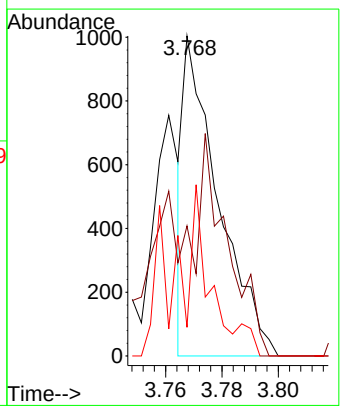


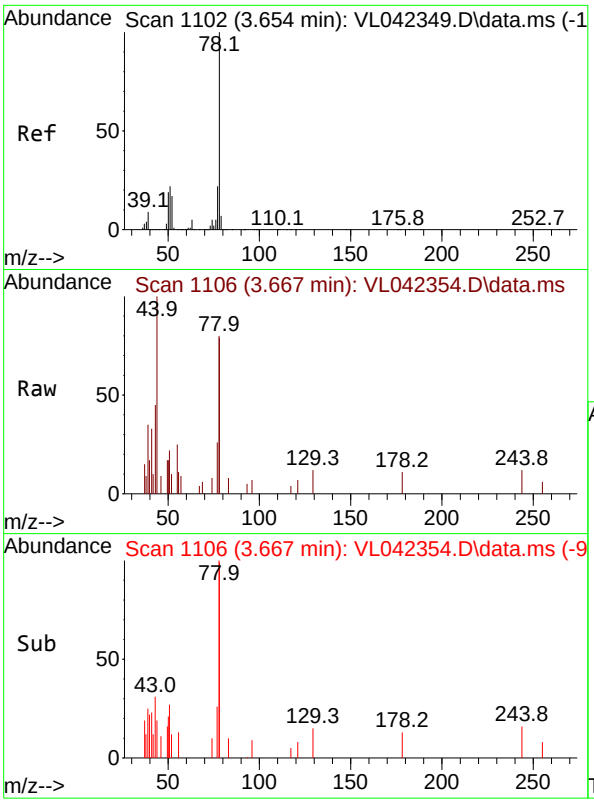


#35
Carbon Tetrachloride
Concen: 0.027 ppbv
RT: 3.768 min Scan# 1137
Delta R.T. 0.006 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

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#



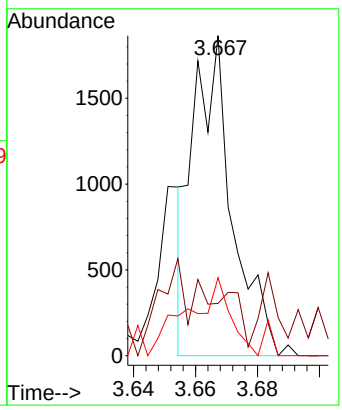


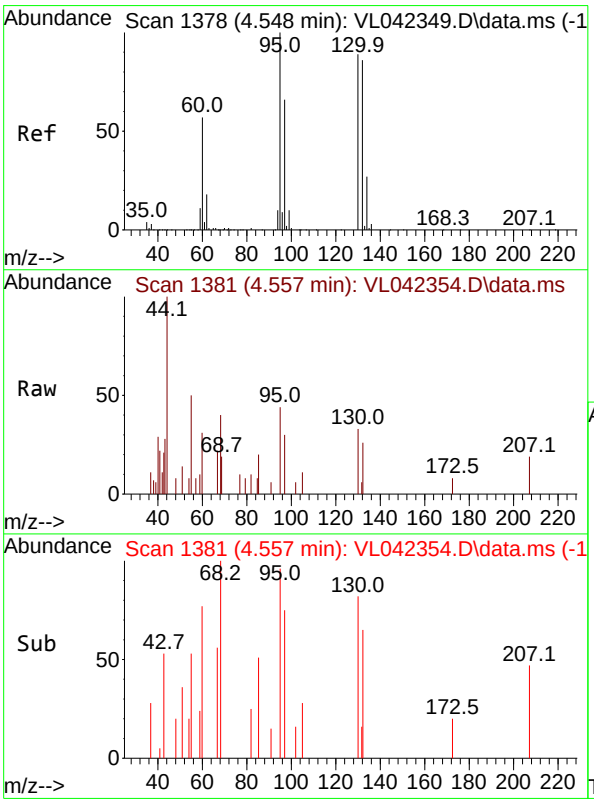
#36
Benzene
Concen: 0.043 ppbv
RT: 3.667 min Scan# 1
Delta R.T. 0.013 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

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#

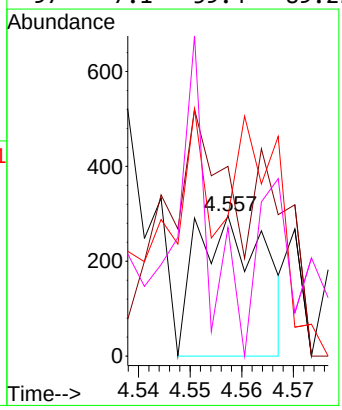


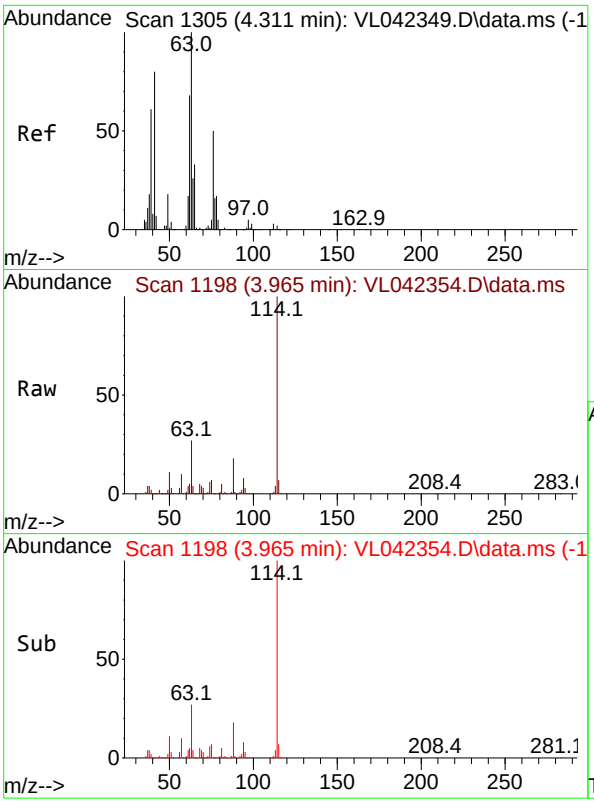


#38
Trichloroethene
Concen: 0.016 ppbv
RT: 4.557 min Scan# 1381
Delta R.T. 0.010 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

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#



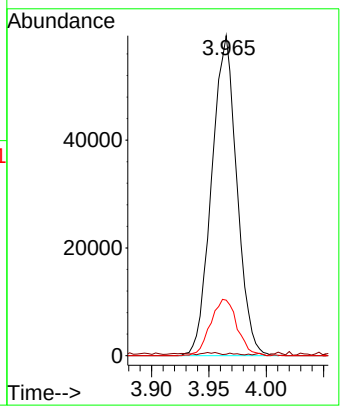


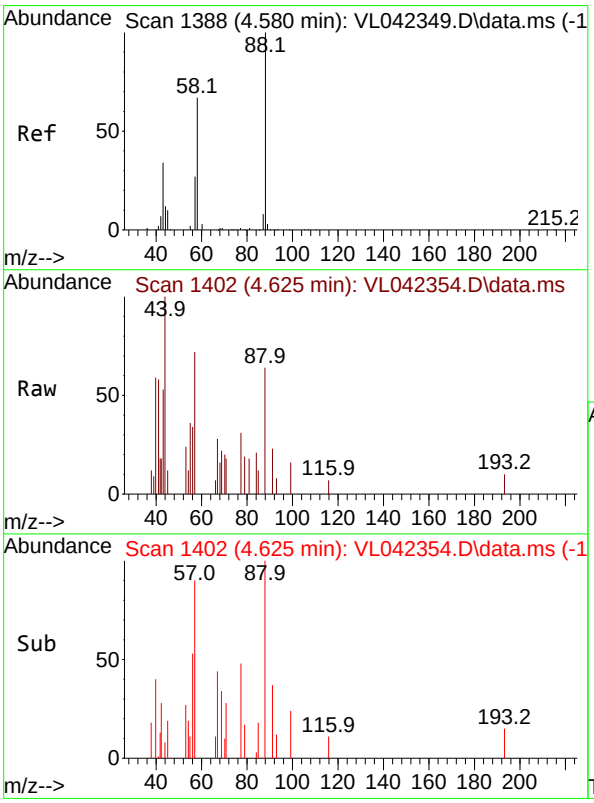
#39
1,2-Dichloropropane
Concen: 6.465 ppbv
RT: 3.965 min Scan# 1
Delta R.T. -0.346 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

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#

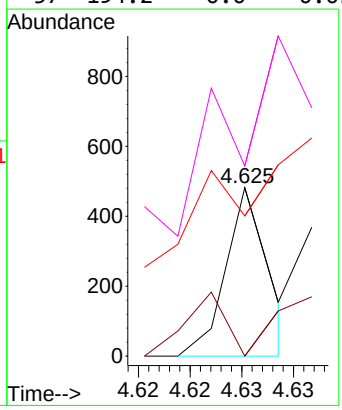


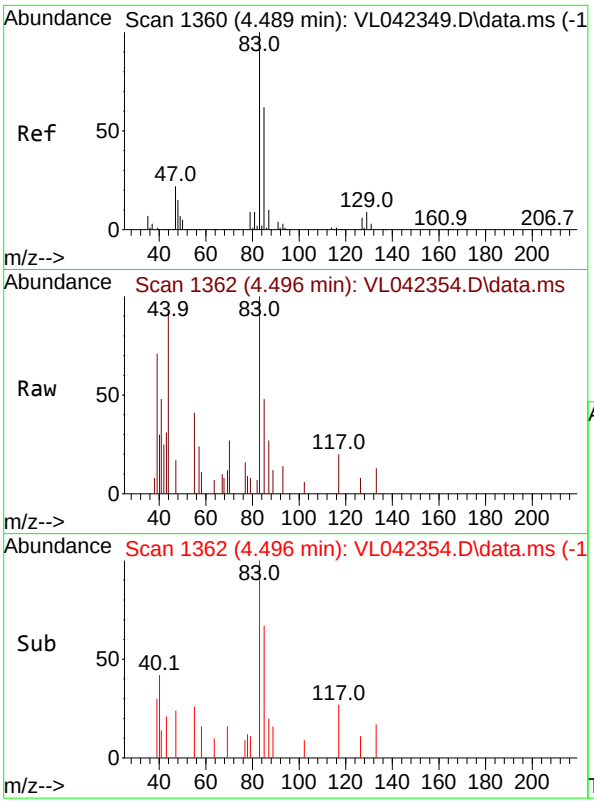


#40
1,4-Dioxane
Concen: 0.018 ppbv
RT: 4.625 min Scan# 1402
Delta R.T. 0.045 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

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#



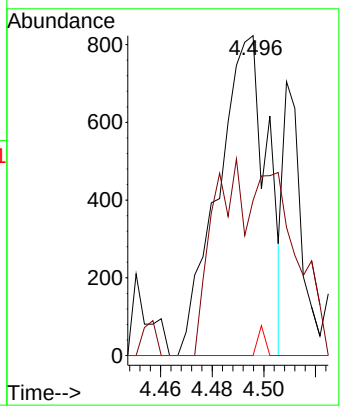


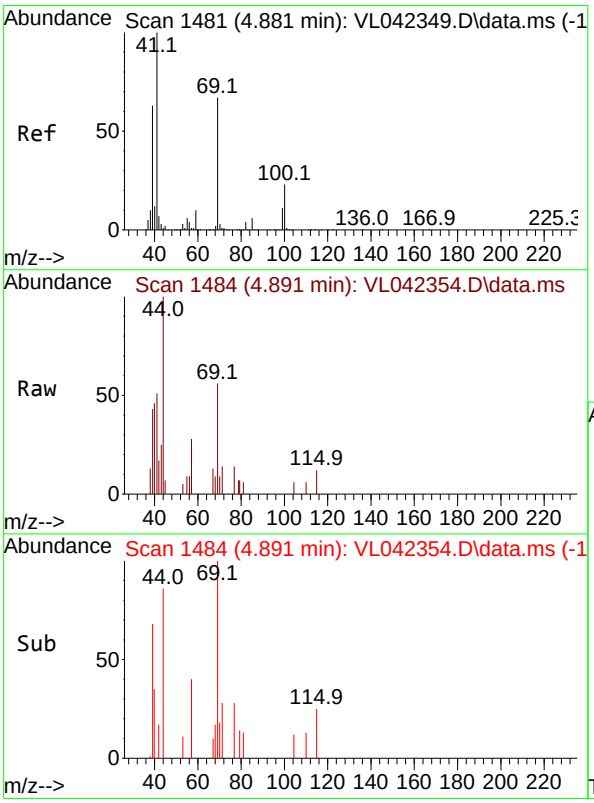
#42
Bromodichloromethane
Concen: 0.035 ppbv
RT: 4.496 min Scan# 1
Delta R.T. 0.006 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

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#

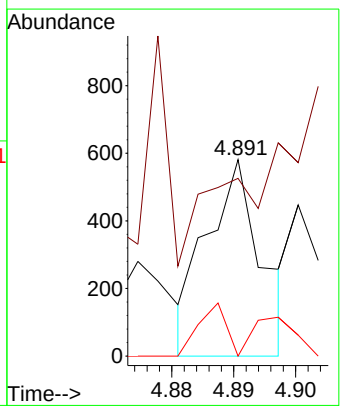


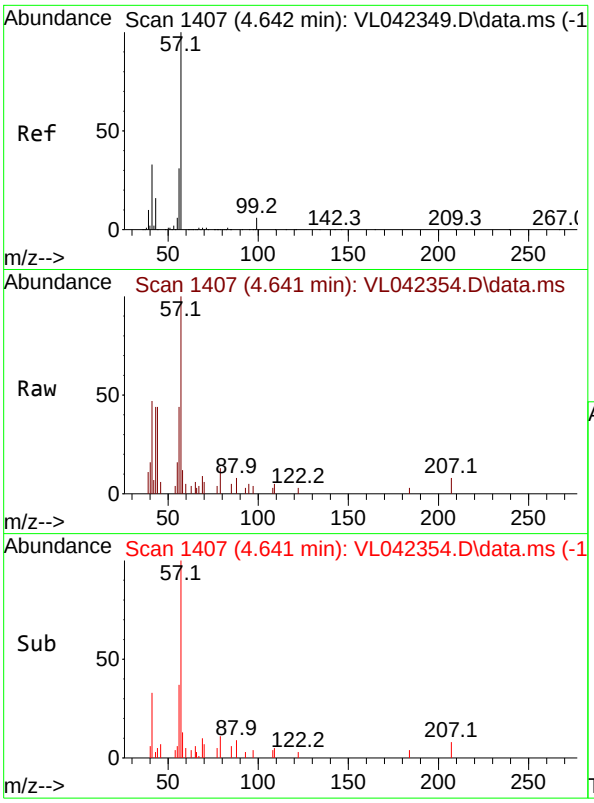


#43
Methyl Methacrylate
Concen: 0.021 ppbv
RT: 4.891 min Scan# 1484
Delta R.T. 0.010 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

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



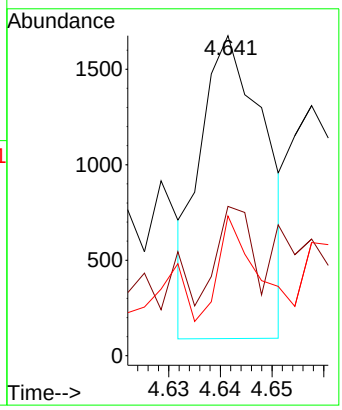


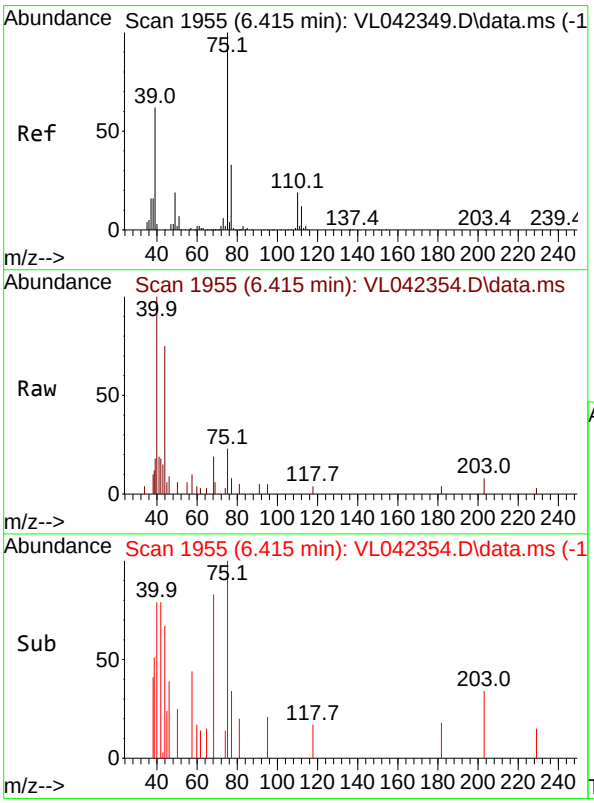
#44
2,2,4-Trimethylpentane
Concen: 0.021 ppbv
RT: 4.641 min Scan# 14
Delta R.T. -0.000 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

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#

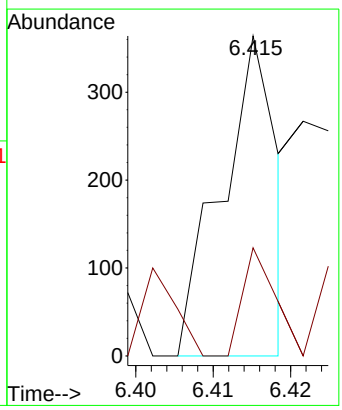


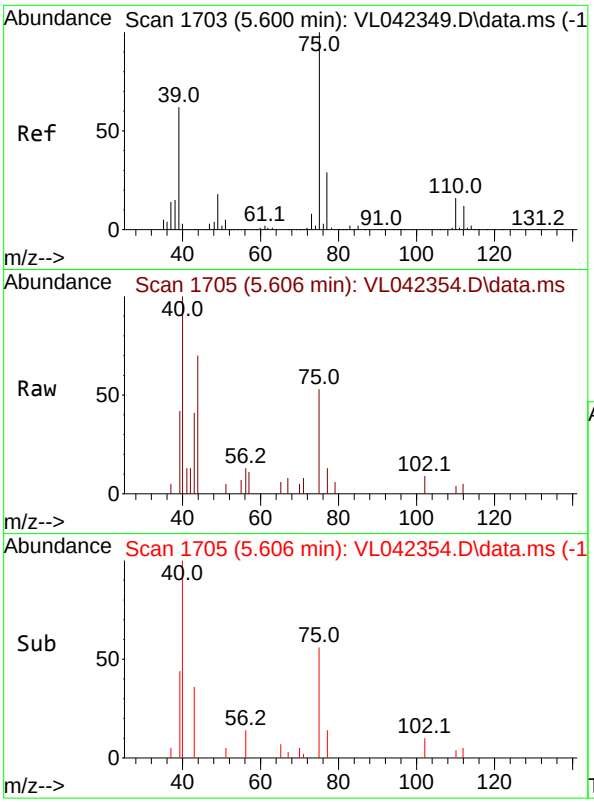


#45
t-1,3-Dichloropropene
Concen: 0.011 ppbv
RT: 6.415 min Scan# 1955
Delta R.T. -0.000 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Tgt Ion: 75 Resp: 183

Ion	Ratio	Lower	Upper
75	100		
77	33.8	27.0	40.6



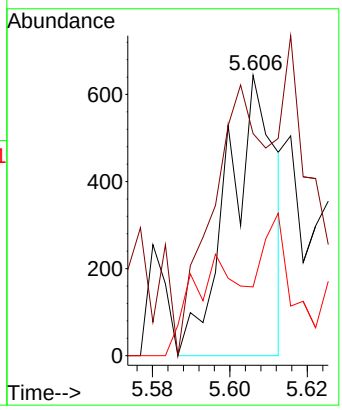


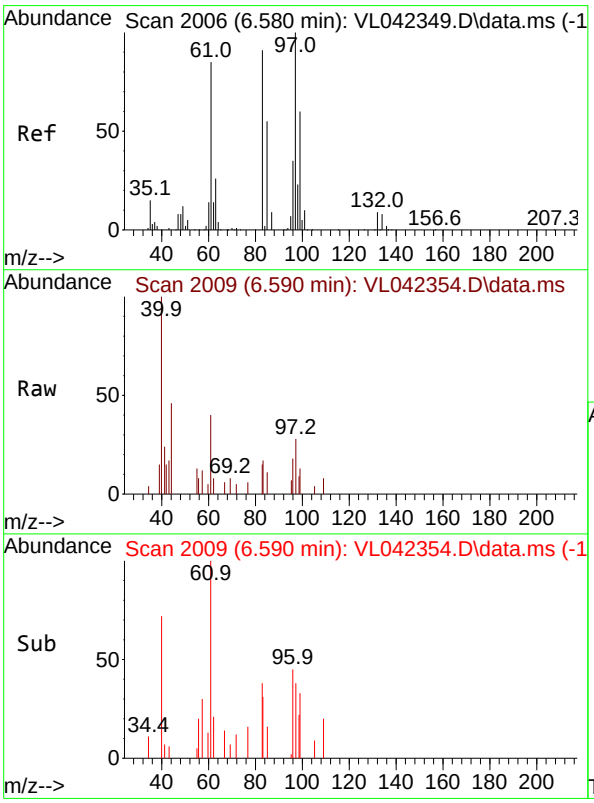
#46
cis-1,3-Dichloropropene
Concen: 0.026 ppbv
RT: 5.606 min Scan# 1
Delta R.T. 0.006 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

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#

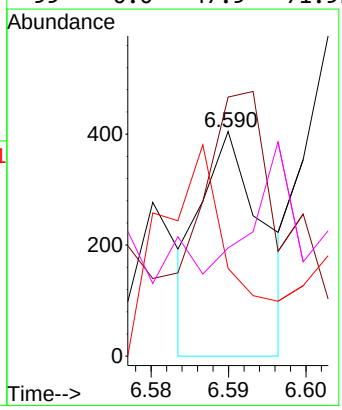


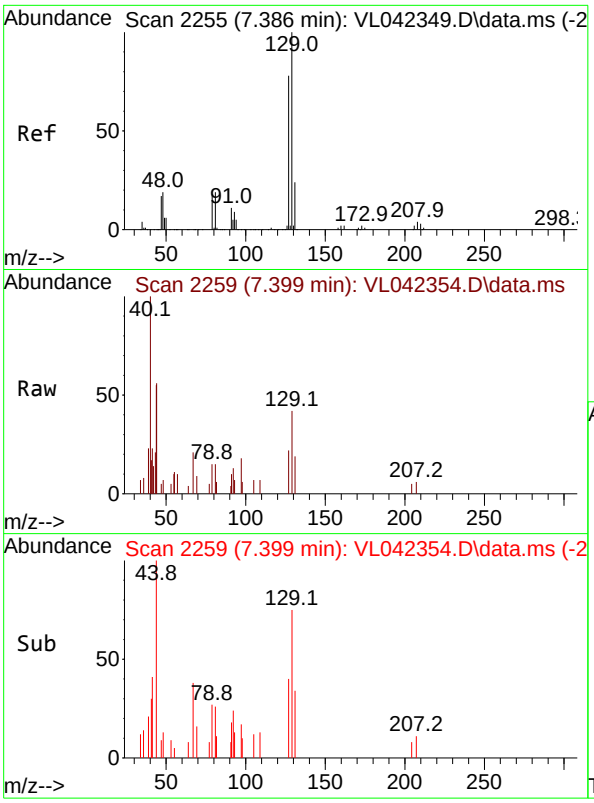


#47
1,1,2-Trichloroethane
Concen: 0.016 ppbv
RT: 6.590 min Scan# 2009
Delta R.T. 0.010 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

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#



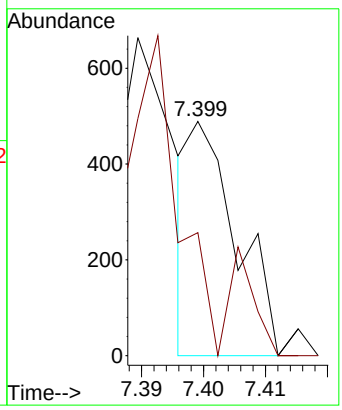


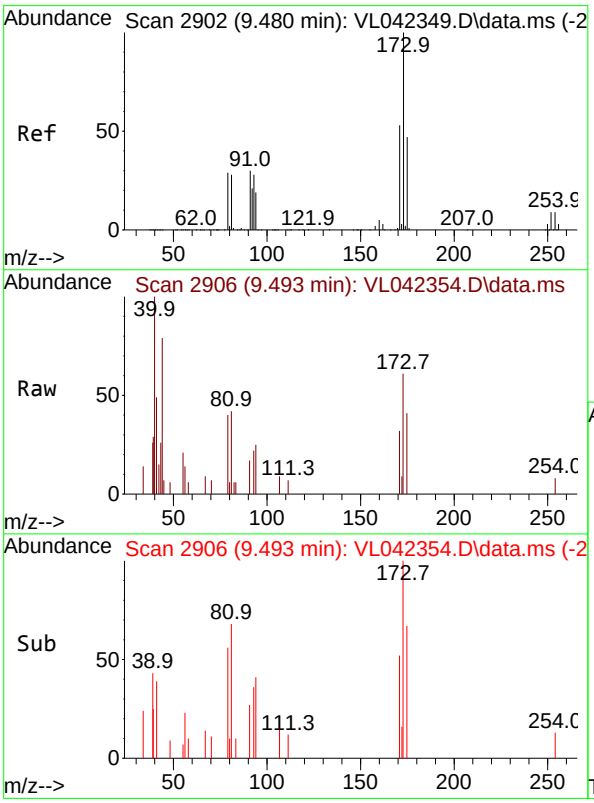
#48
Dibromochloromethane
Concen: 0.010 ppbv
RT: 7.399 min Scan# 2
Delta R.T. 0.013 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion:129 Resp: 258

Ion	Ratio	Lower	Upper
129	100		
127	0.0	39.1	117.3#

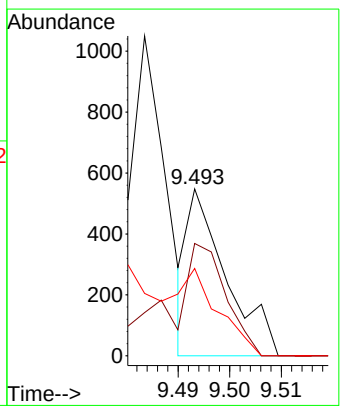


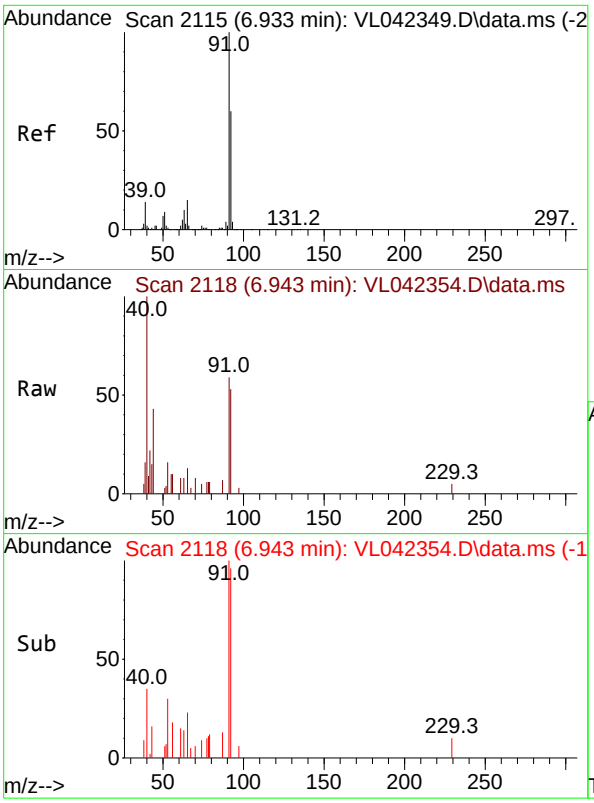


#49
Bromoform
Concen: 0.013 ppbv
RT: 9.493 min Scan# 2906
Delta R.T. 0.013 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

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#



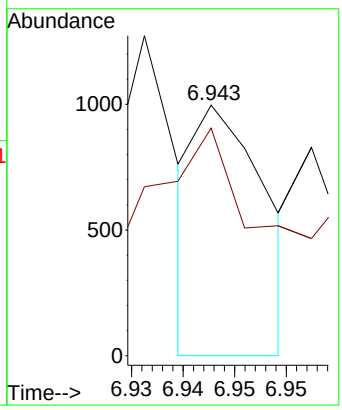


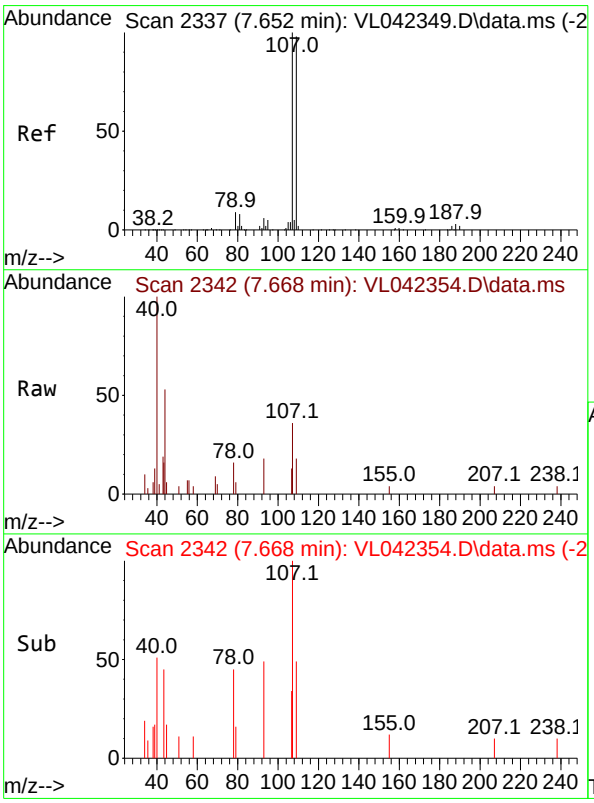
#53
Toluene
Concen: 0.010 ppbv
RT: 6.943 min Scan# 21
Delta R.T. 0.010 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion: 91 Resp: 464

Ion	Ratio	Lower	Upper
91	100		
92	289.2	48.2	72.4#

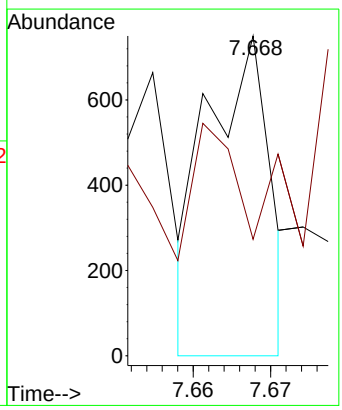


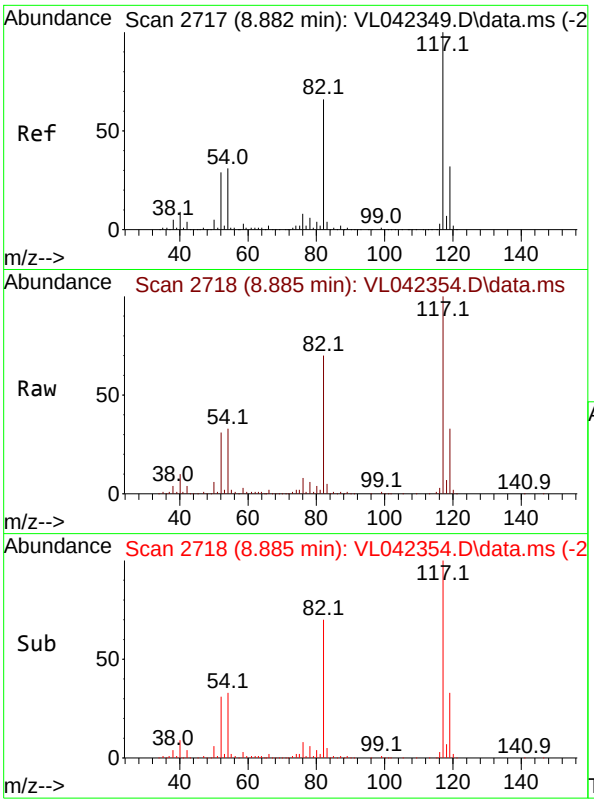


#54
1,2-Dibromoethane
Concen: 0.021 ppbv
RT: 7.668 min Scan# 2342
Delta R.T. 0.016 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Tgt Ion:107 Resp: 422

Ion	Ratio	Lower	Upper
107	100		
109	10.4	78.2	117.4#



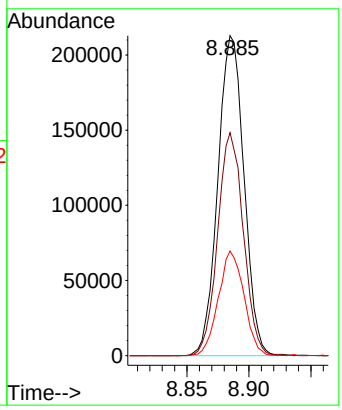


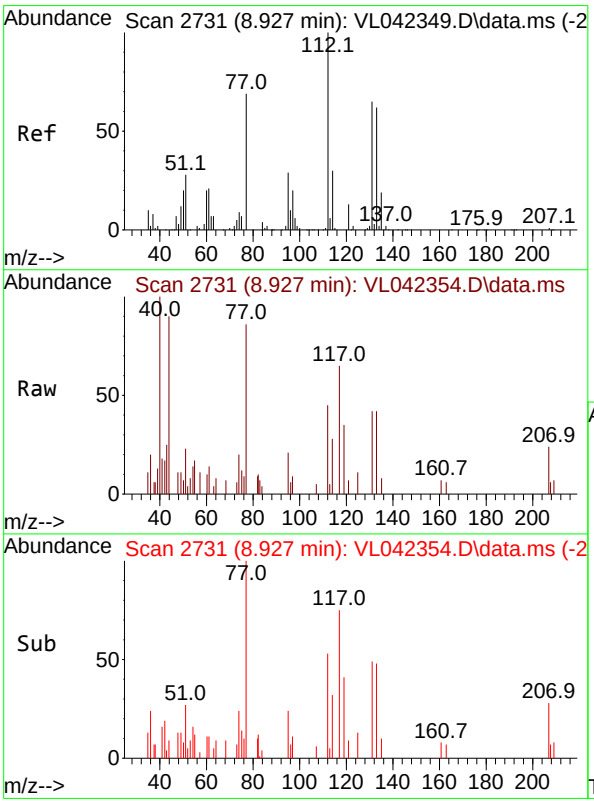
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.885 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

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

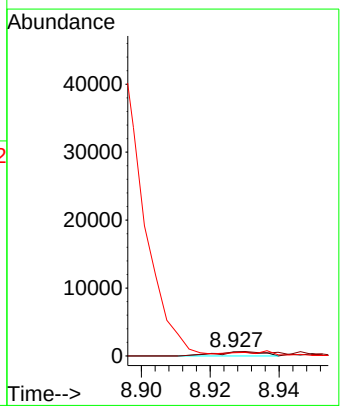


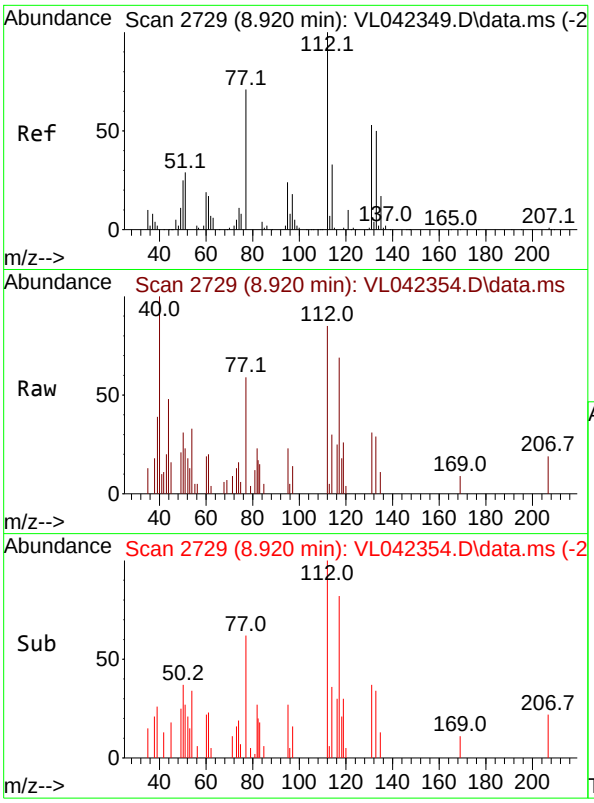


#56
1,1,1,2-Tetrachloroethane
Concen: 0.031 ppbv
RT: 8.927 min Scan# 2731
Delta R.T. -0.000 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

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#



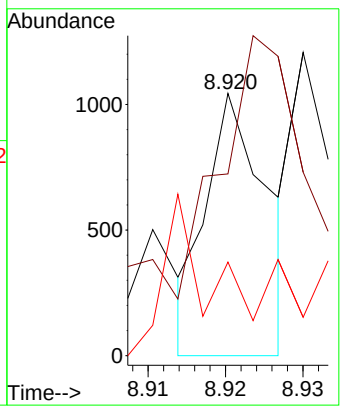


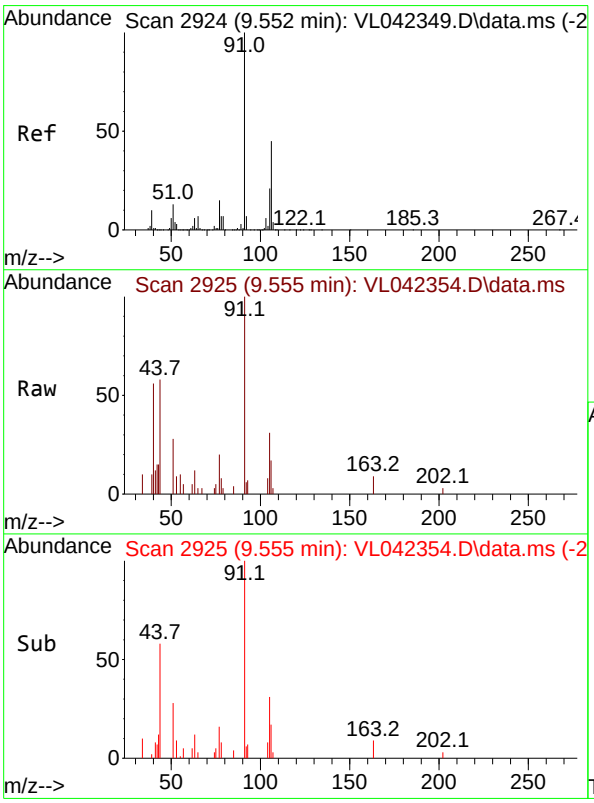
#57
Chlorobenzene
Concen: 0.017 ppbv
RT: 8.920 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

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#

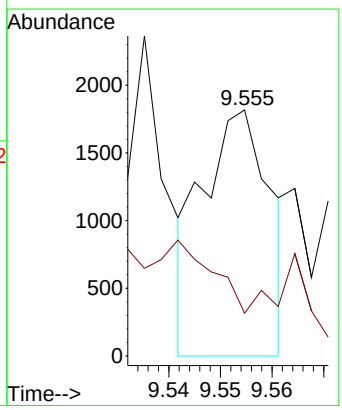


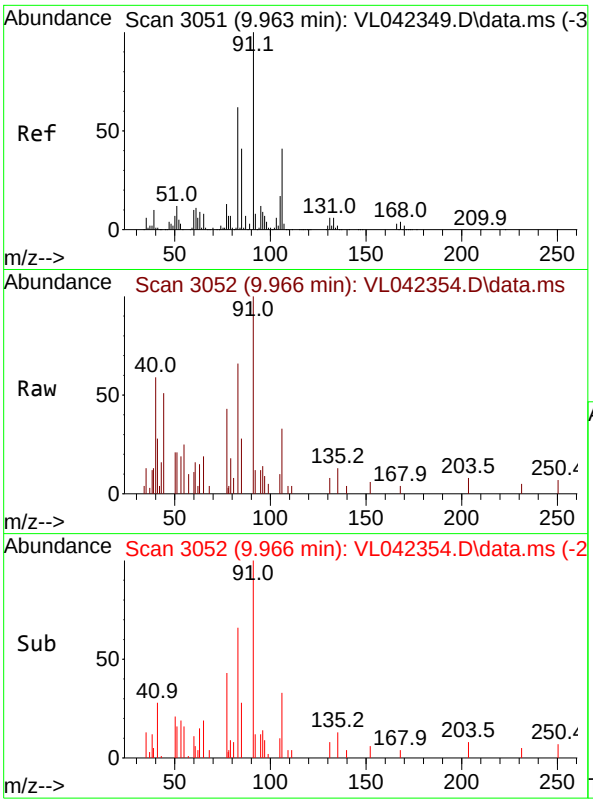


#59
m/p-Xylene
Concen: 0.033 ppbv
RT: 9.555 min Scan# 2925
Delta R.T. 0.003 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Tgt Ion: 91 Resp: 1648

Ion	Ratio	Lower	Upper
91	100		
106	0.0	35.4	53.2#



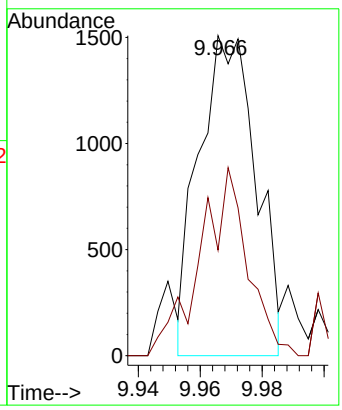


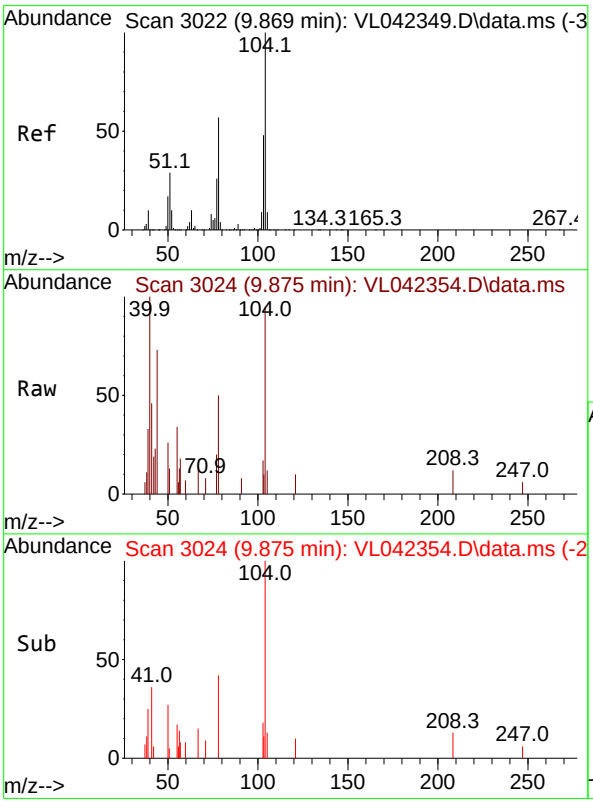
#60
o-Xylene
Concen: 0.039 ppbv
RT: 9.966 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion: 91 Resp: 1938

Ion	Ratio	Lower	Upper
91	100		
106	52.6	21.1	63.4

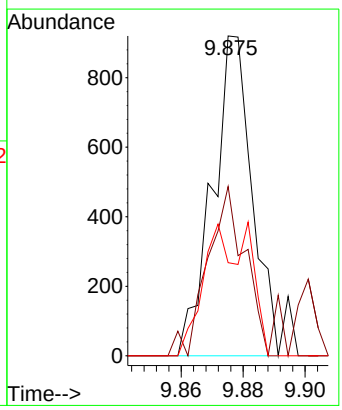


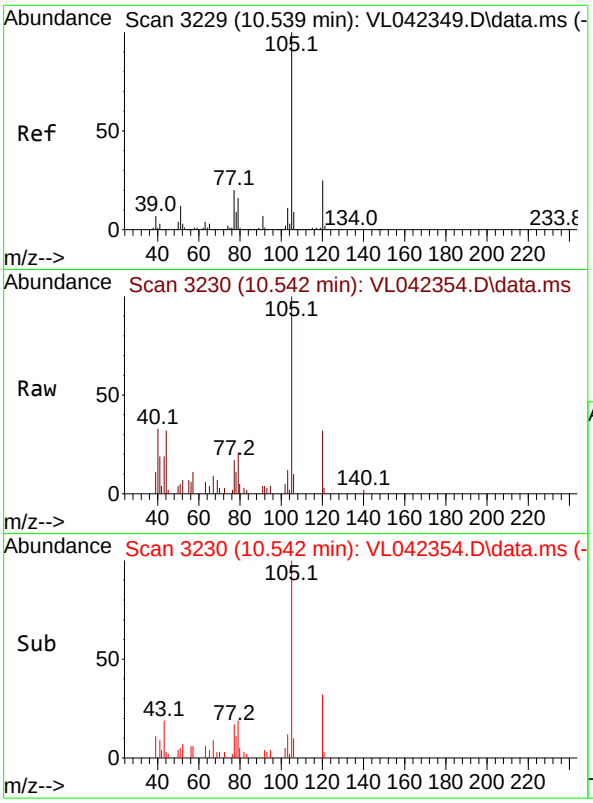


#61
Styrene
Concen: 0.034 ppbv
RT: 9.875 min Scan# 3024
Delta R.T. 0.006 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

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



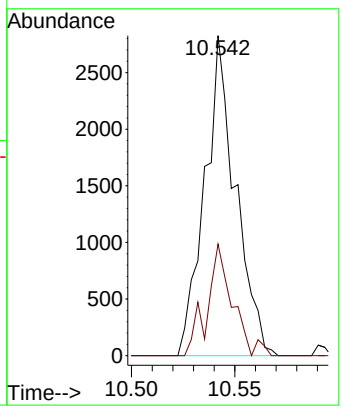


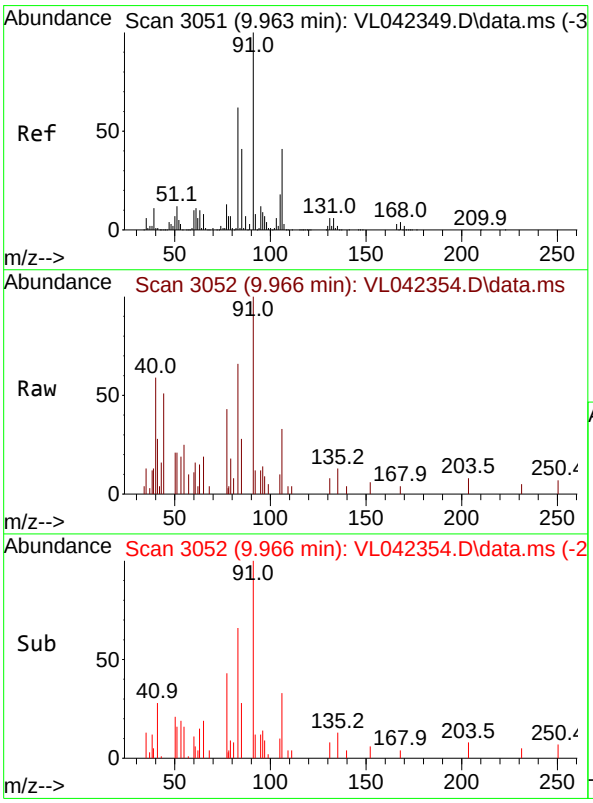
#62
Isopropylbenzene
Concen: 0.040 ppbv
RT: 10.542 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion:105 Resp: 2934

Ion	Ratio	Lower	Upper
105	100		
120	28.8	19.8	29.8

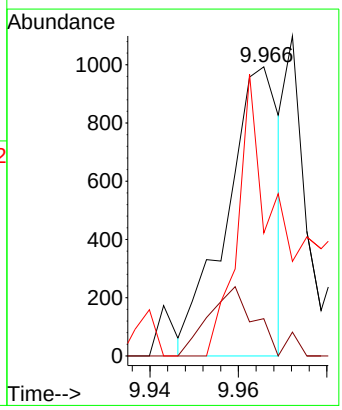


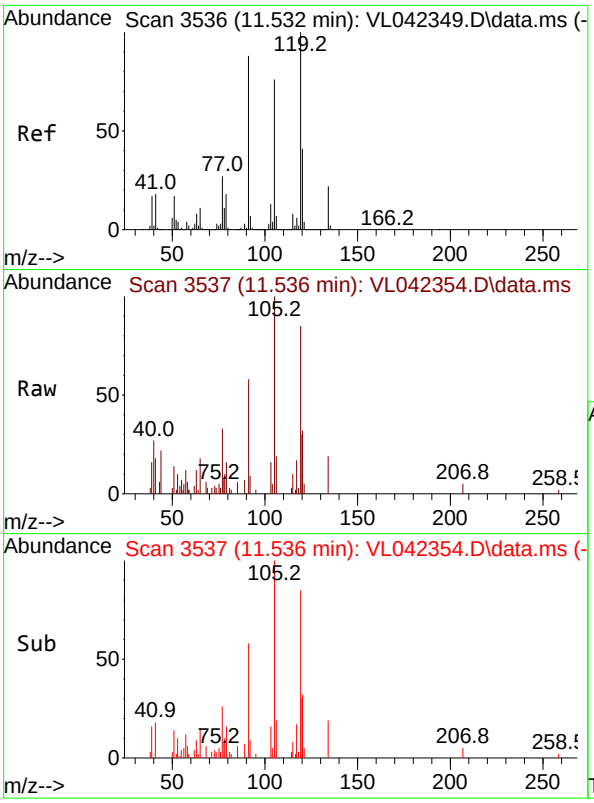


#63
1,1,2,2-Tetrachloroethane
Concen: 0.025 ppbv
RT: 9.966 min Scan# 3052
Delta R.T. 0.003 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

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#



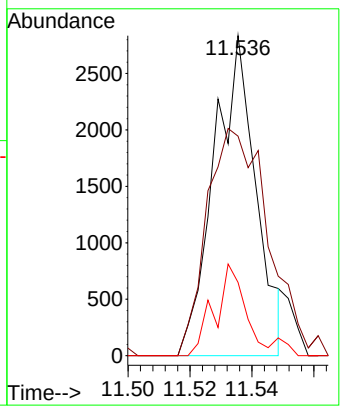


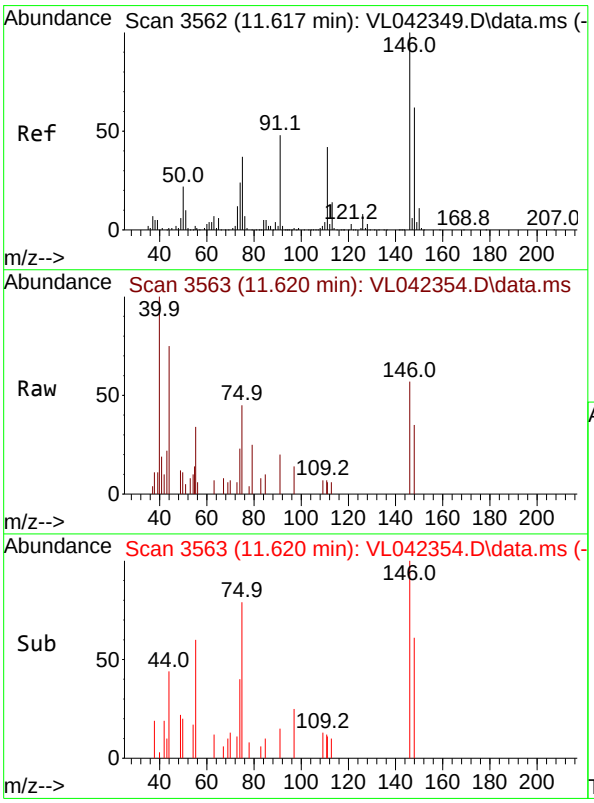
#65
tert-Butylbenzene
Concen: 0.039 ppbv
RT: 11.536 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

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

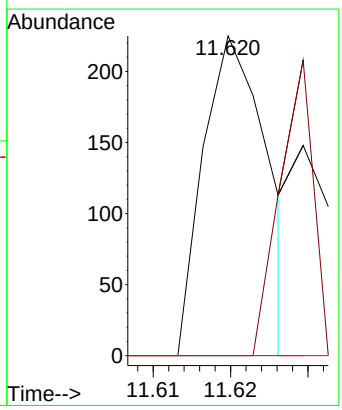


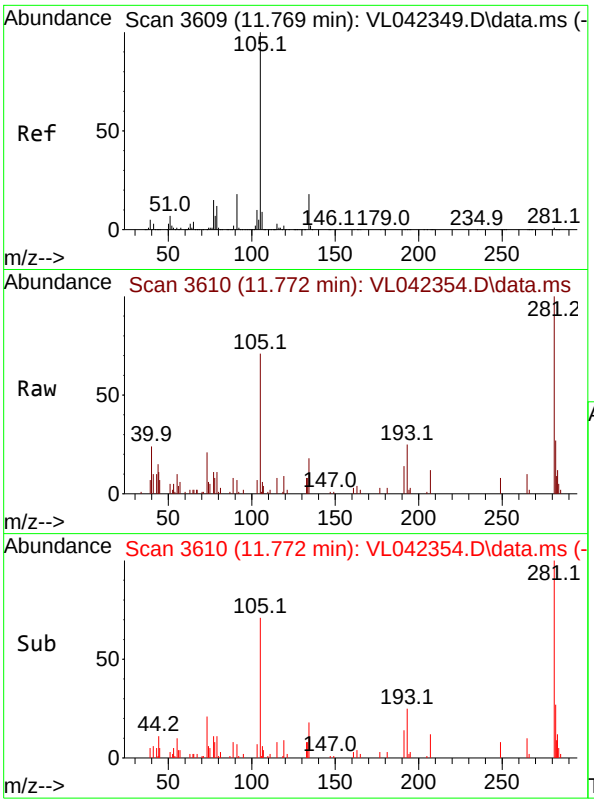


#66
Benzyl Chloride
Concen: 0.017 ppbv
RT: 11.620 min Scan# 3563
Delta R.T. 0.003 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

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#



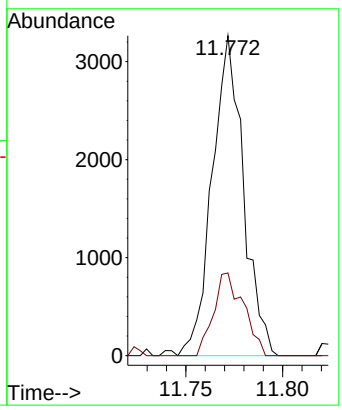


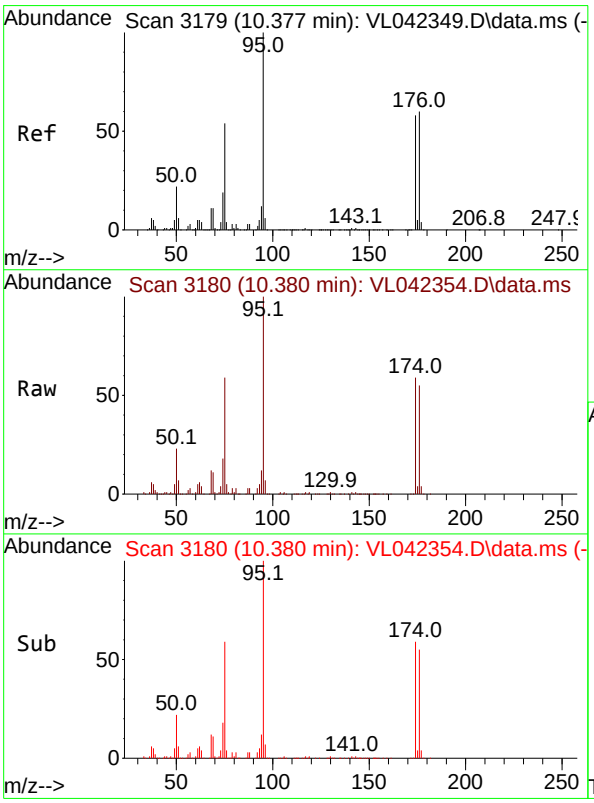
#67
sec-Butylbenzene
Concen: 0.039 ppbv
RT: 11.772 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion:105 Resp: 3658

Ion	Ratio	Lower	Upper
105	100		
134	24.8	14.6	21.8#

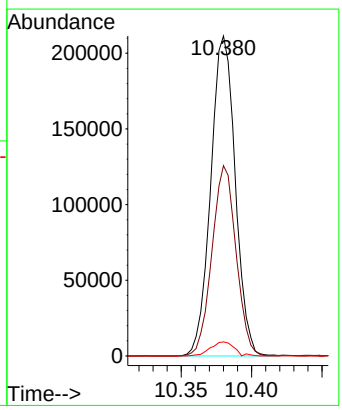


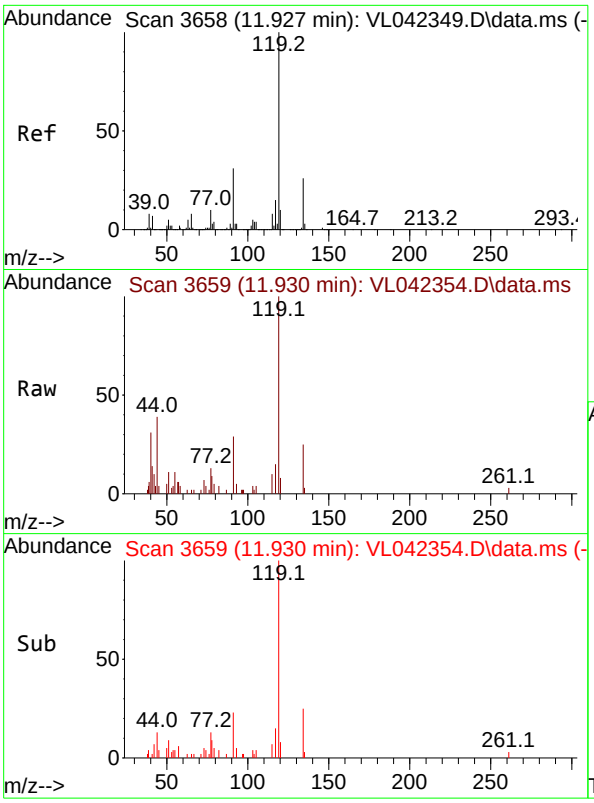


#68
1-Bromo-4-Fluorobenzene
Concen: 9.962 ppbv
RT: 10.380 min Scan# 3180
Delta R.T. 0.003 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

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



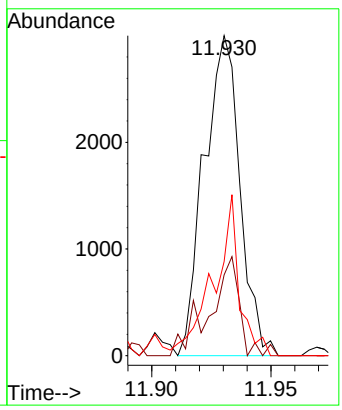


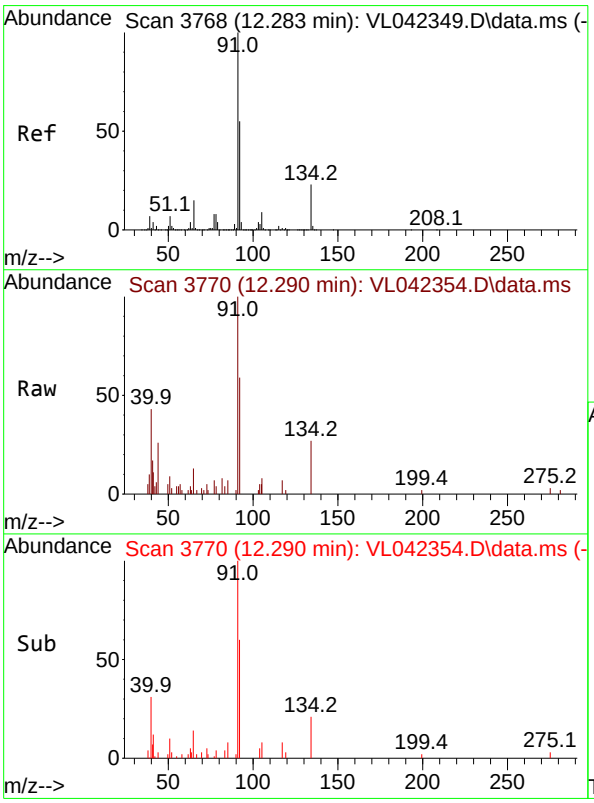
#69
p-Isopropyltoluene
Concen: 0.038 ppbv
RT: 11.930 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

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

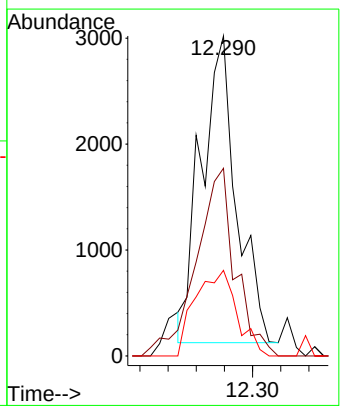


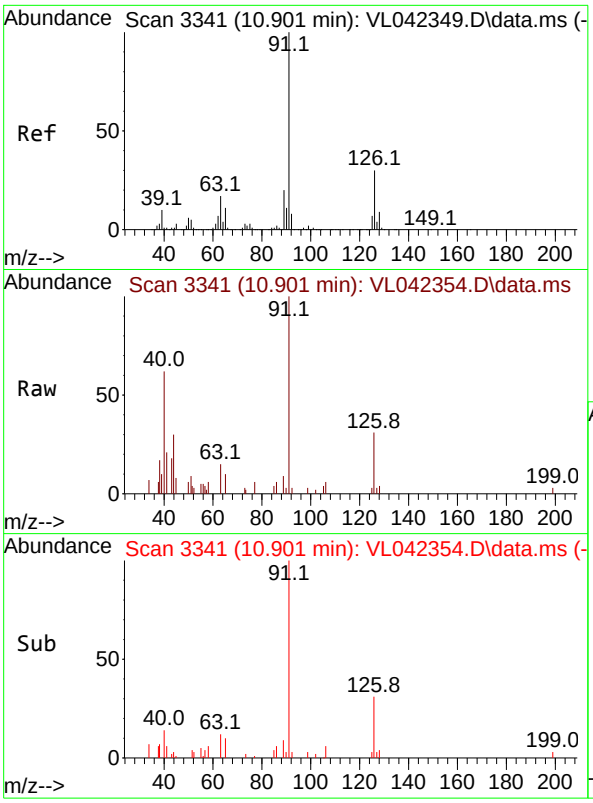


#70
n-Butylbenzene
Concen: 0.029 ppbv
RT: 12.290 min Scan# 3770
Delta R.T. 0.006 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

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#



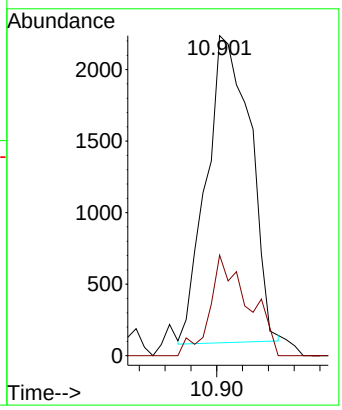


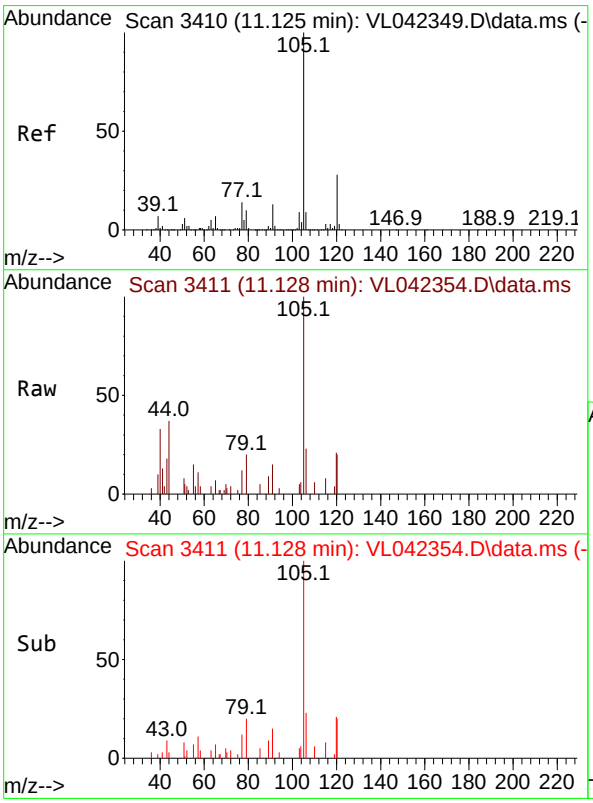
#71
2-Chlorotoluene
Concen: 0.044 ppbv
RT: 10.901 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion: 91 Resp: 2537

Ion	Ratio	Lower	Upper
91	100		
126	28.7	11.4	45.4

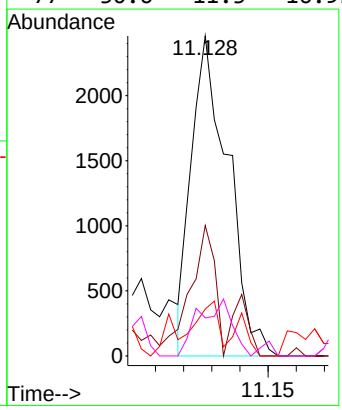


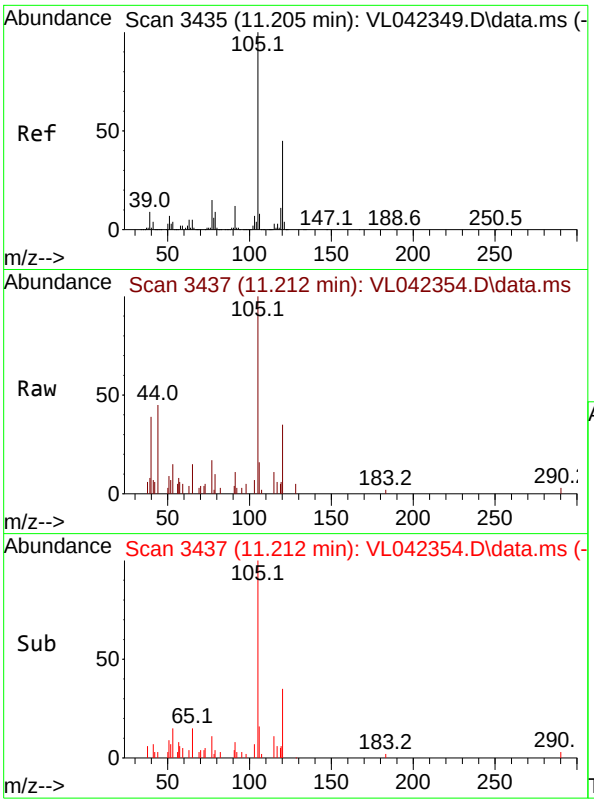


#72
4-Ethyltoluene
Concen: 0.036 ppbv
RT: 11.128 min Scan# 3411
Delta R.T. 0.003 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

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#



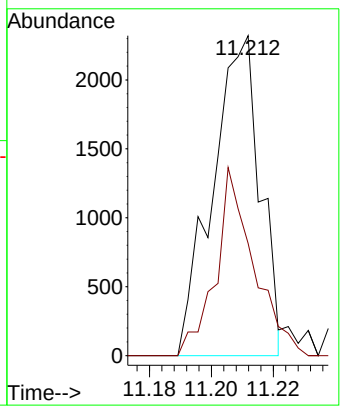


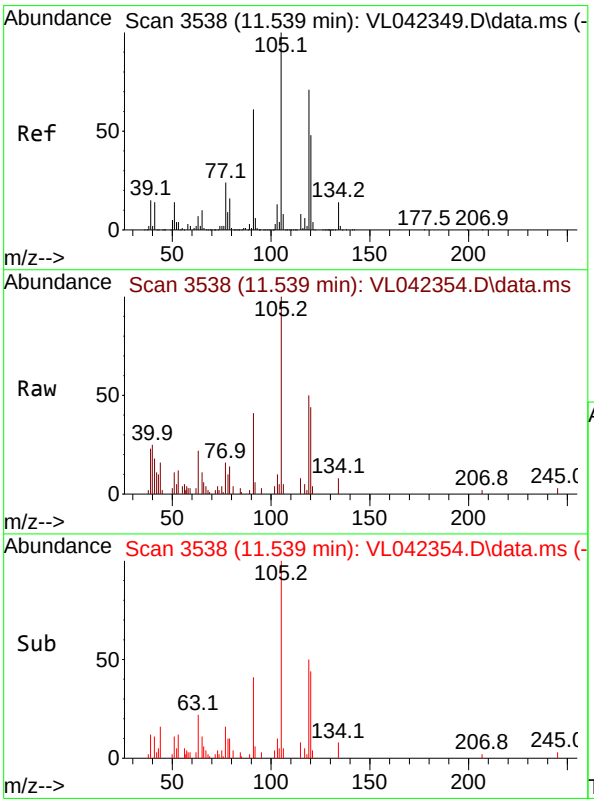
#73
1,3,5-Trimethylbenzene
Concen: 0.046 ppbv
RT: 11.212 min Scan# 3
Delta R.T. 0.006 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion:105 Resp: 2473

Ion	Ratio	Lower	Upper
105	100		
120	35.1	35.6	53.4#

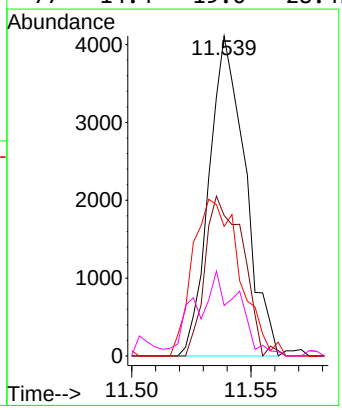


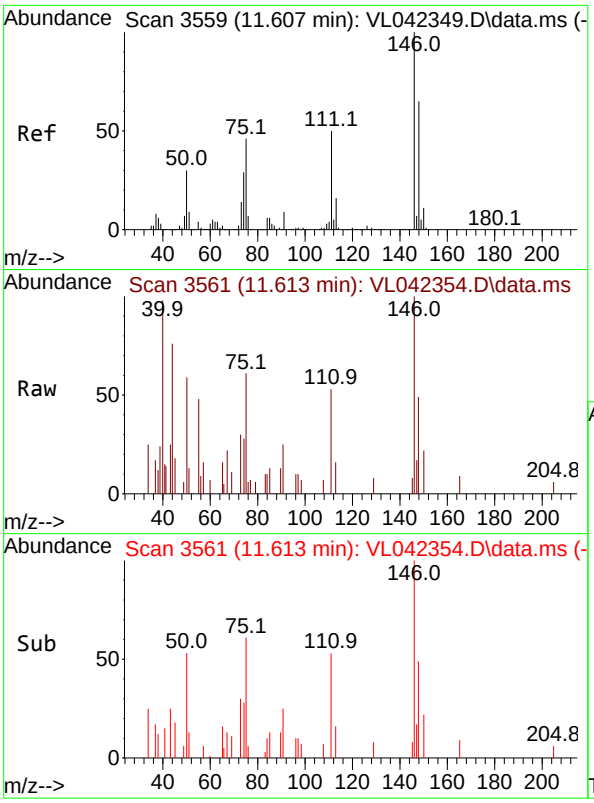


#74
1,2,4-Trimethylbenzene
Concen: 0.068 ppbv
RT: 11.539 min Scan# 3538
Delta R.T. -0.000 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

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#



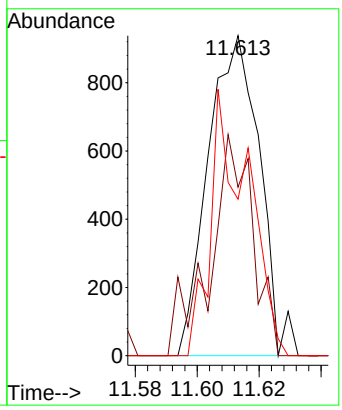


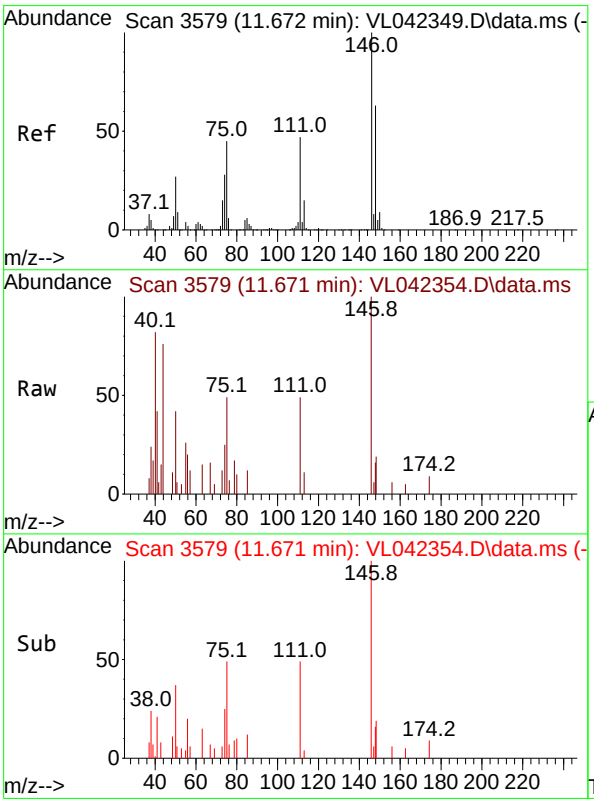
#75
1,3-Dichlorobenzene
Concen: 0.032 ppbv
RT: 11.613 min Scan# 3
Delta R.T. 0.006 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

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

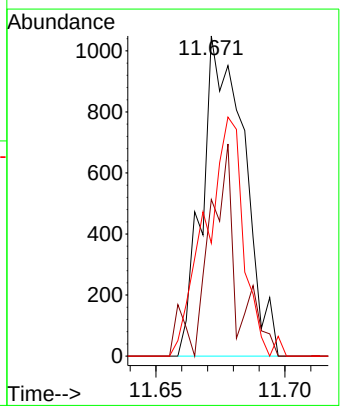


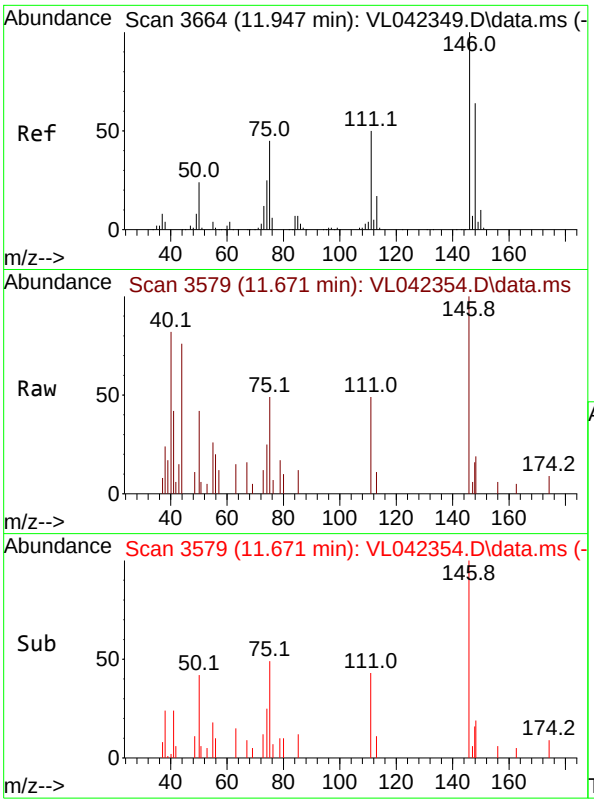


#76
1,4-Dichlorobenzene
Concen: 0.036 ppbv
RT: 11.671 min Scan# 3579
Delta R.T. -0.000 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

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



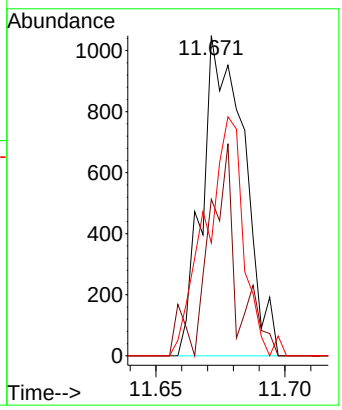


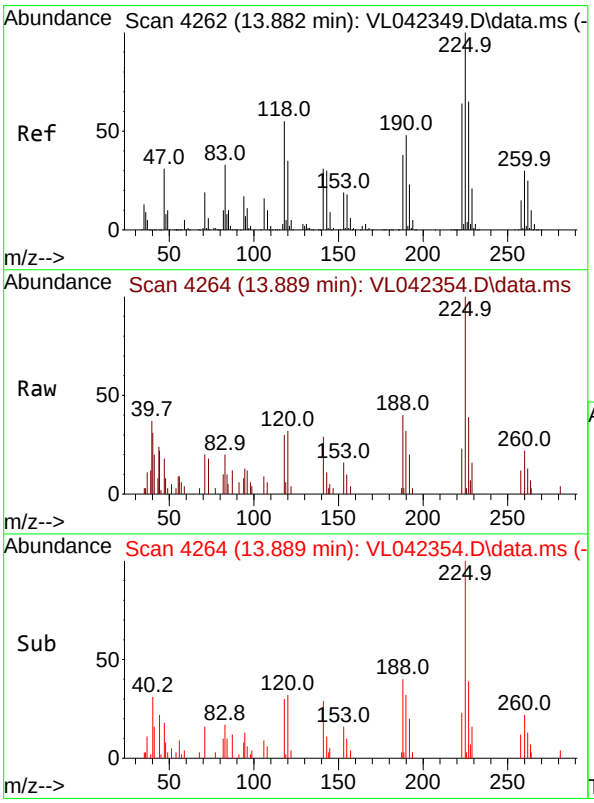
#77
1,2-Dichlorobenzene
Concen: 0.037 ppbv
RT: 11.671 min Scan# 3
Delta R.T. -0.275 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

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

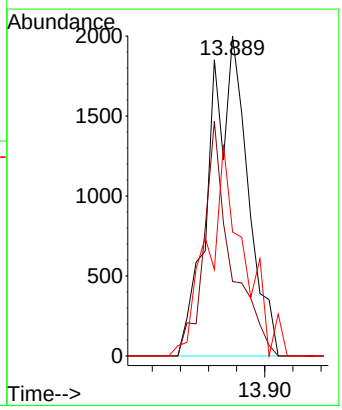


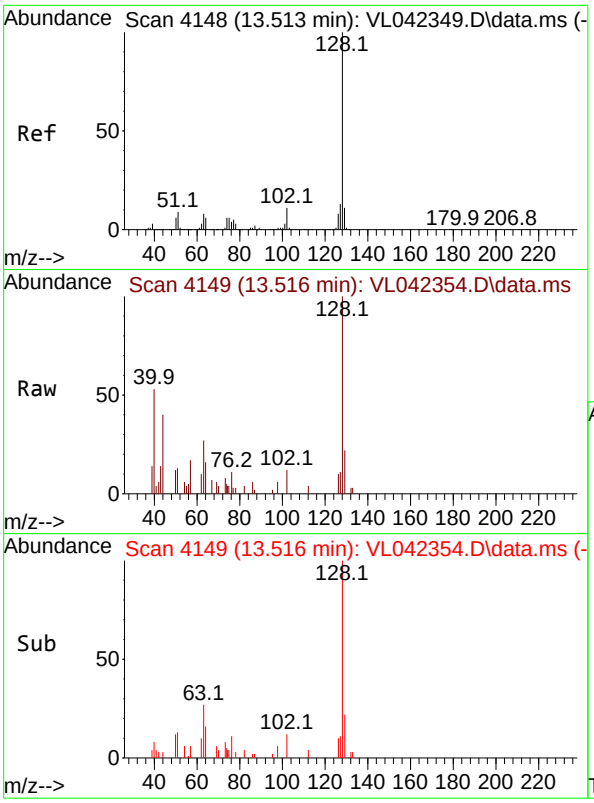


#78
Hexachloro-1,3-Butadiene
Concen: 0.058 ppbv
RT: 13.889 min Scan# 4264
Delta R.T. 0.006 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

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



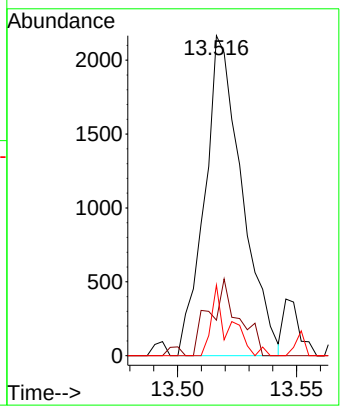


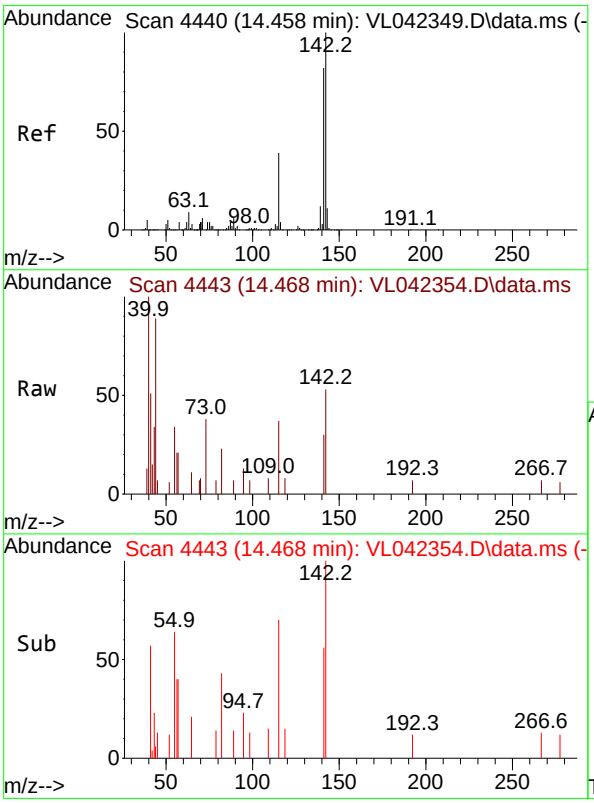
#79
Naphthalene
Concen: 0.031 ppbv
RT: 13.516 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion:128 Resp: 2354

Ion	Ratio	Lower	Upper
128	100		
127	11.1	10.6	15.8
129	22.1	8.6	12.8#

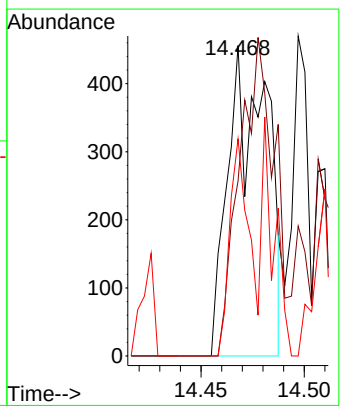


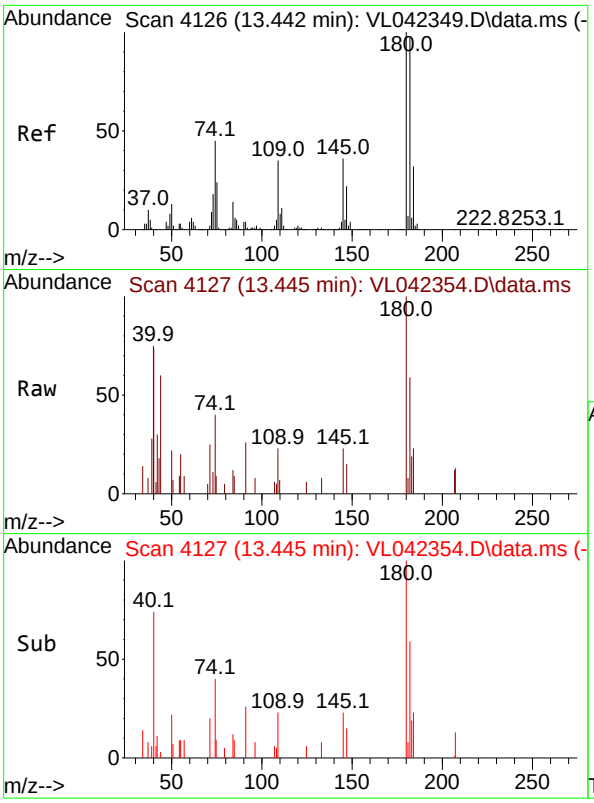


#80
Naphthalene,2-methyl-
Concen: 0.014 ppbv
RT: 14.468 min Scan# 4443
Delta R.T. 0.010 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

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#



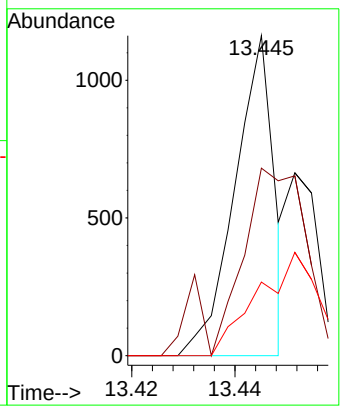


#81
1,2,4-Trichlorobenzene
Concen: 0.019 ppbv
RT: 13.445 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

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

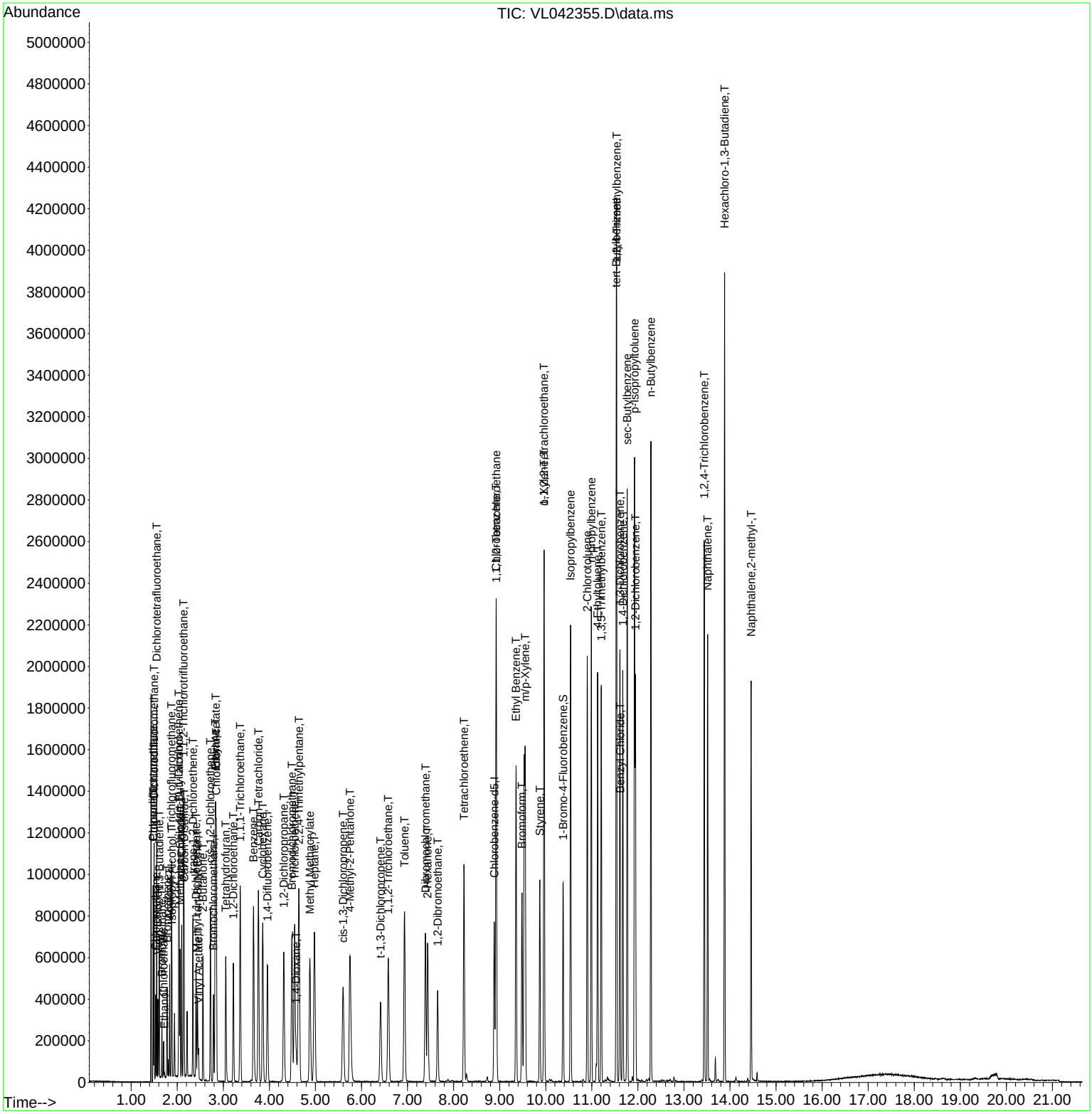
(#) = qualifier out of range (m) = manual integration (+) = signals summed

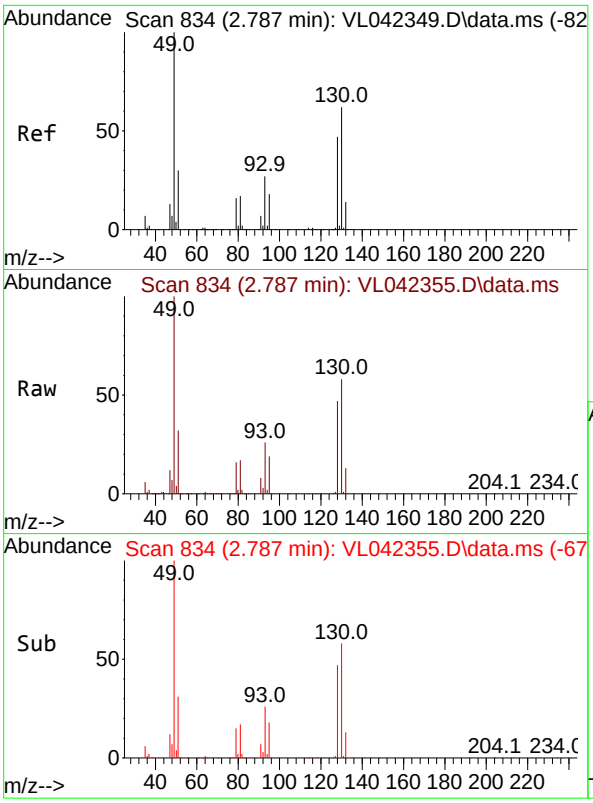
Quantitation Report (Not Reviewed)

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



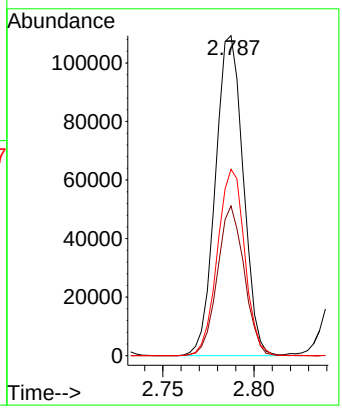


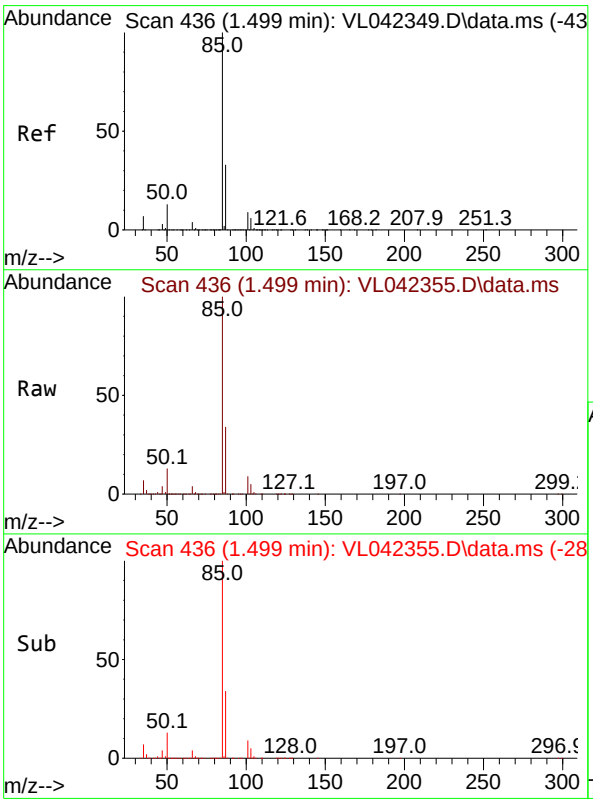
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 8
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

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

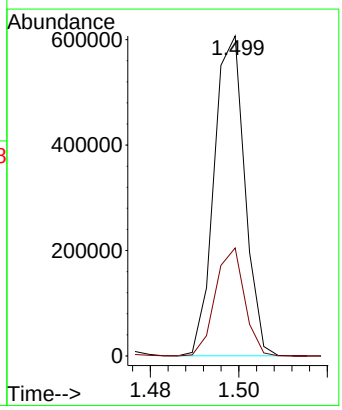


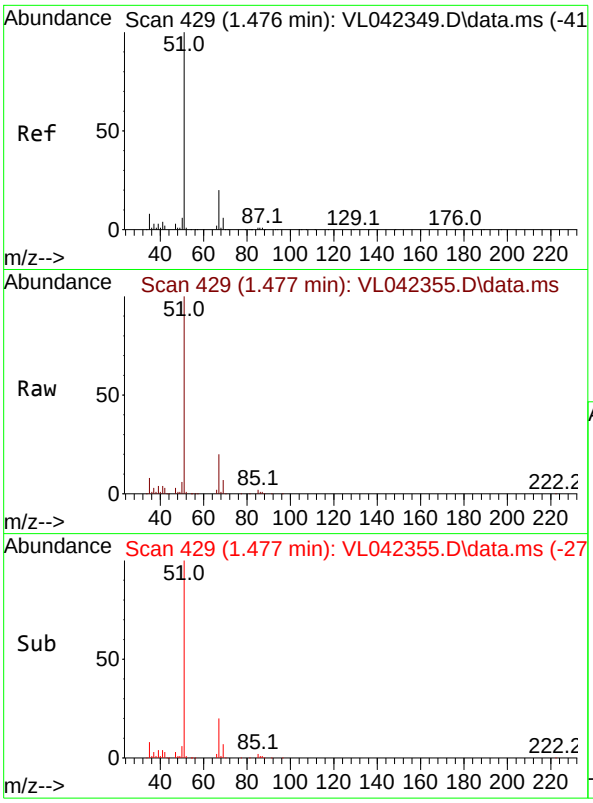


#2
Dichlorodifluoromethane
Concen: 14.277 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 85 Resp: 292784

Ion	Ratio	Lower	Upper
85	100		
87	33.8	26.6	39.8



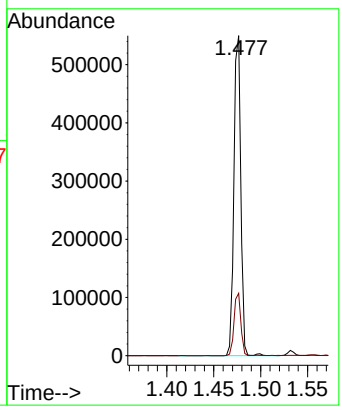


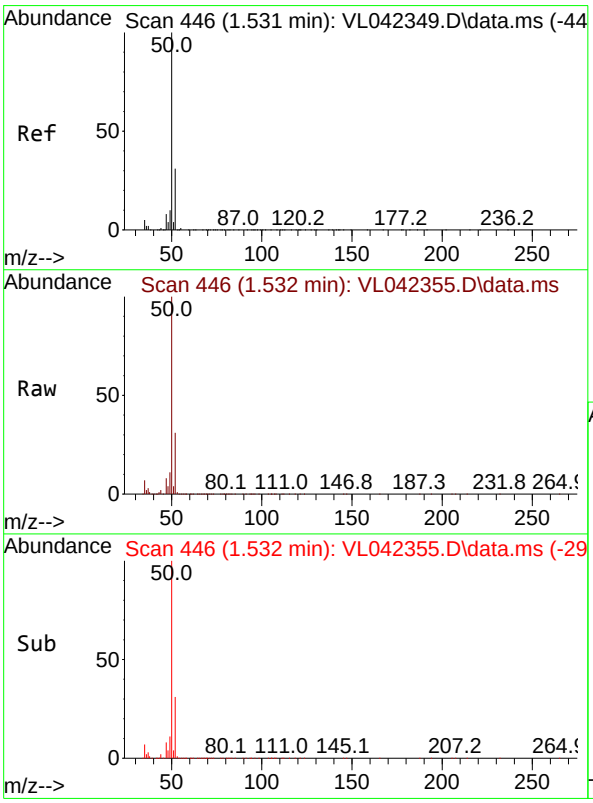
#3
Chlorodifluoromethane
Concen: 14.341 ppbv
RT: 1.477 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 51 Resp: 280042

Ion	Ratio	Lower	Upper
51	100		
67	19.5	16.2	24.4

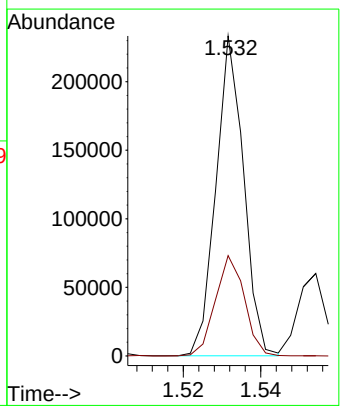


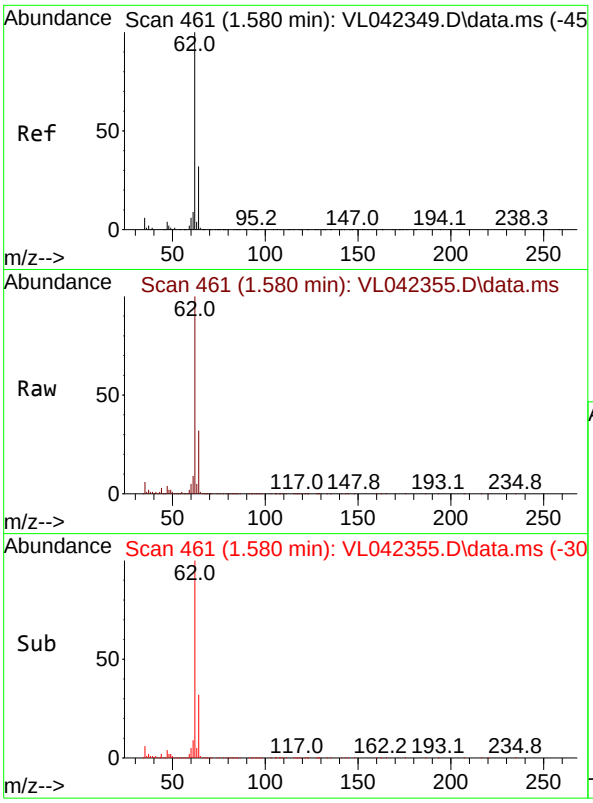


#4
Chloromethane
Concen: 14.266 ppbv
RT: 1.532 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 50 Resp: 115775

Ion	Ratio	Lower	Upper
50	100		
52	31.3	24.7	37.1



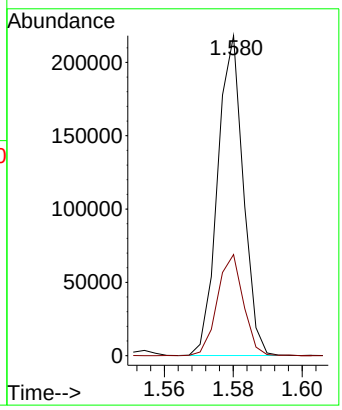


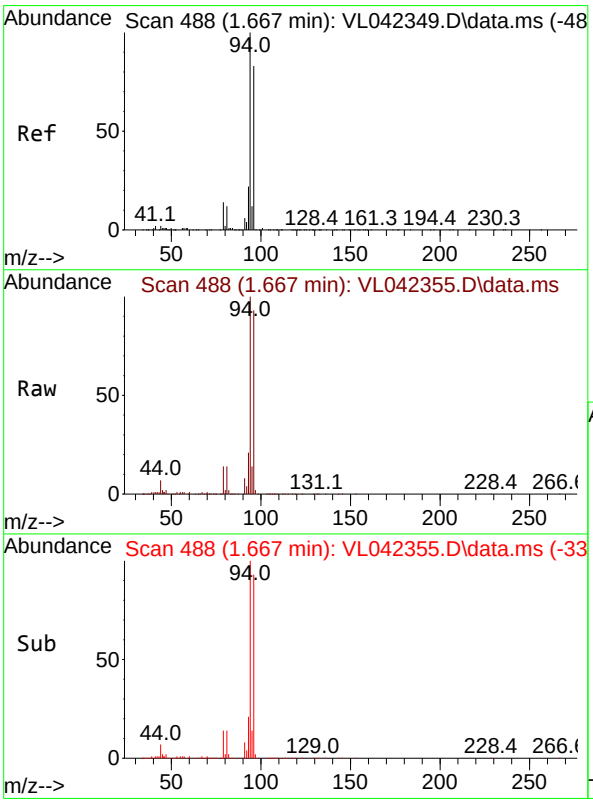
#5
Vinyl Chloride
Concen: 12.752 ppbv
RT: 1.580 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 62 Resp: 112650

Ion	Ratio	Lower	Upper
62	100		
64	31.6	25.4	38.0

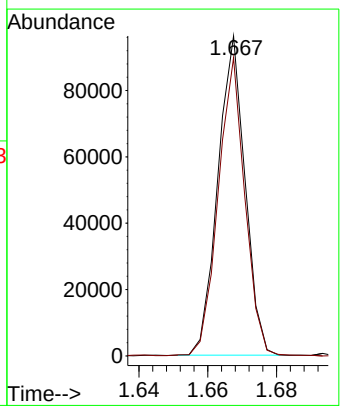


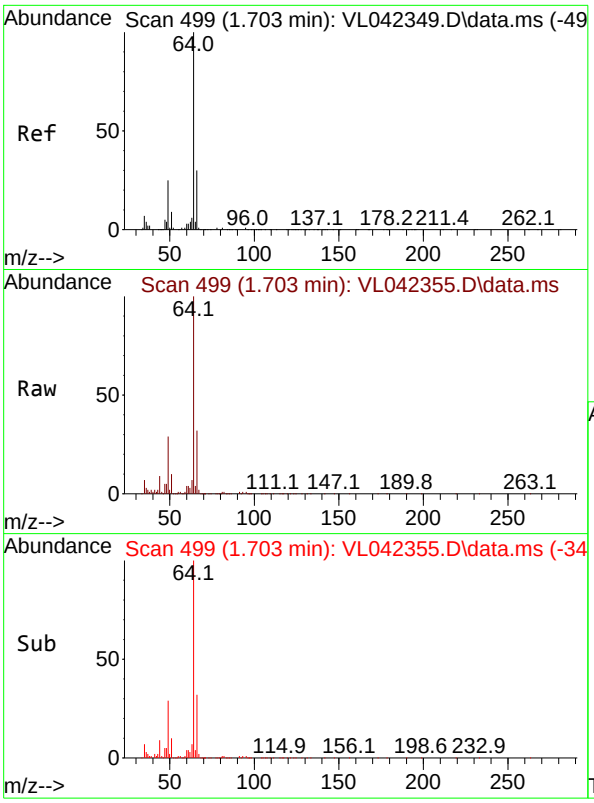


#6
Bromomethane
Concen: 13.800 ppbv
RT: 1.667 min Scan# 488
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 94 Resp: 52805

Ion	Ratio	Lower	Upper
94	100		
96	93.1	66.2	99.2



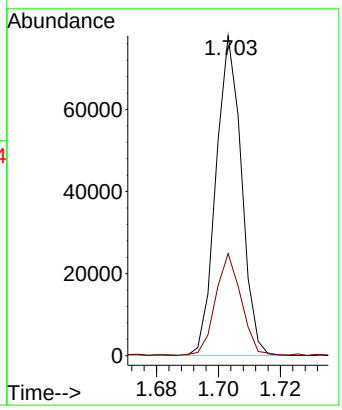


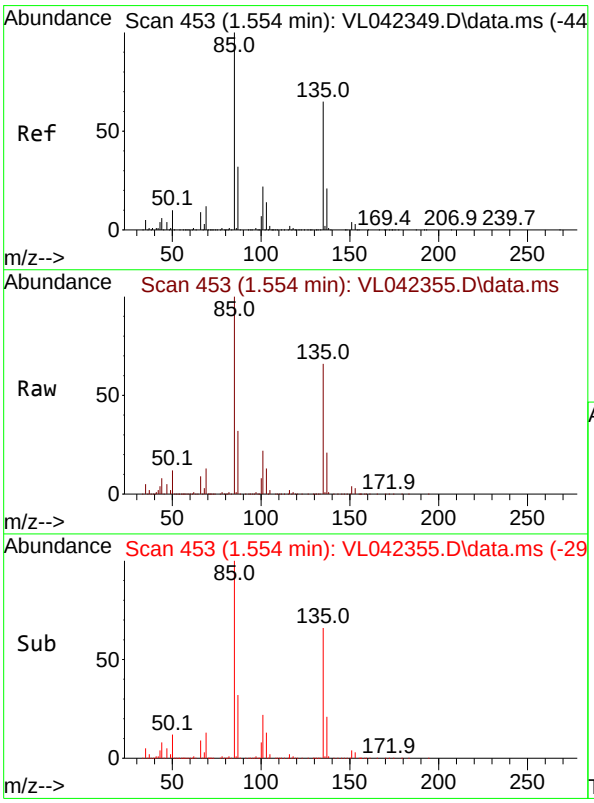
#7
Chloroethane
Concen: 13.881 ppbv
RT: 1.703 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 64 Resp: 44347

Ion	Ratio	Lower	Upper
64	100		
66	31.9	24.6	37.0

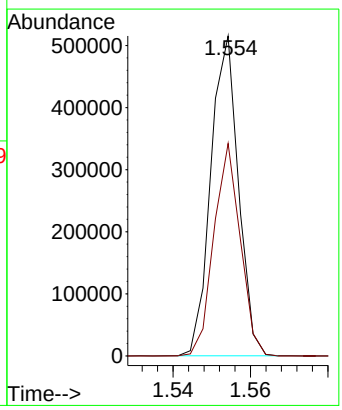


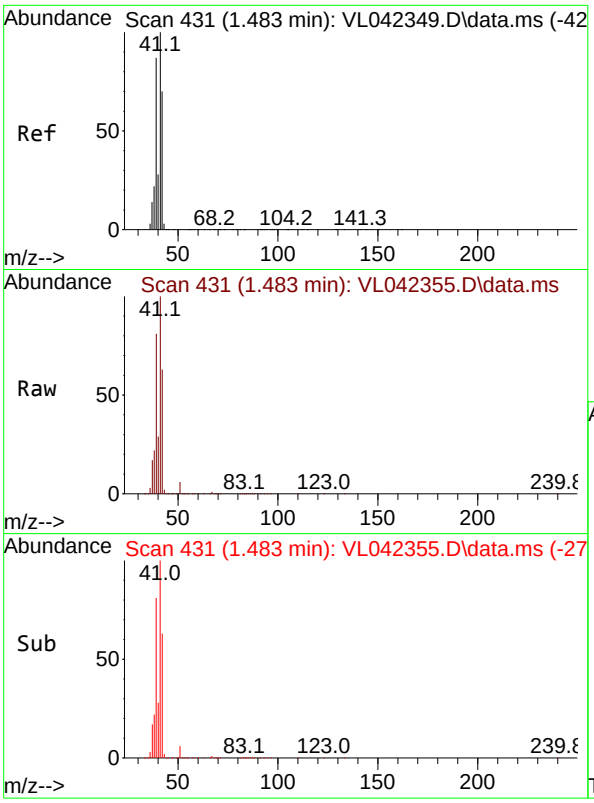


#8
Dichlorotetrafluoroethane
Concen: 14.484 ppbv
RT: 1.554 min Scan# 453
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 85 Resp: 255029

Ion	Ratio	Lower	Upper
85	100		
135	63.6	52.2	78.2



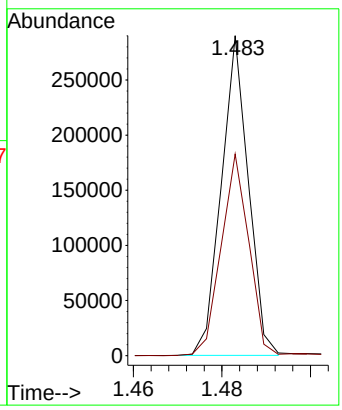


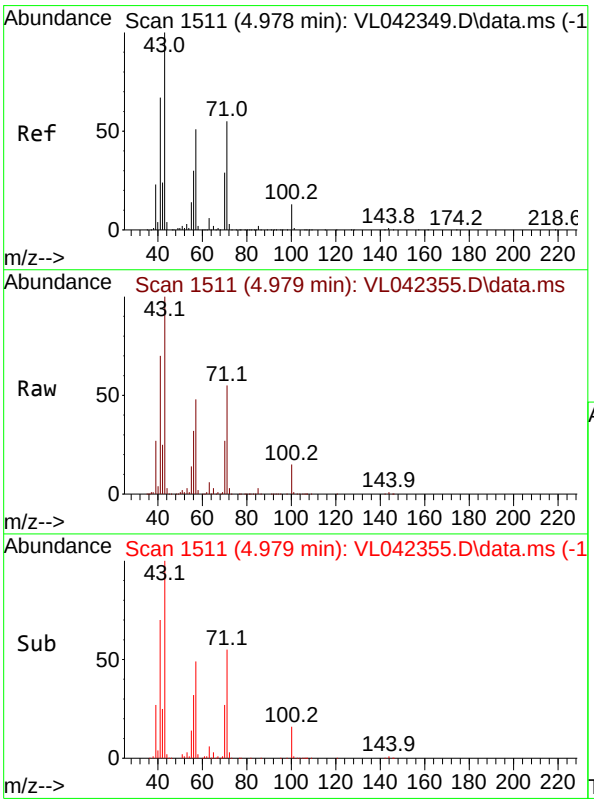
#9
Propene
Concen: 13.842 ppbv
RT: 1.483 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 41 Resp: 123102

Ion	Ratio	Lower	Upper
41	100		
42	66.0	56.2	84.4

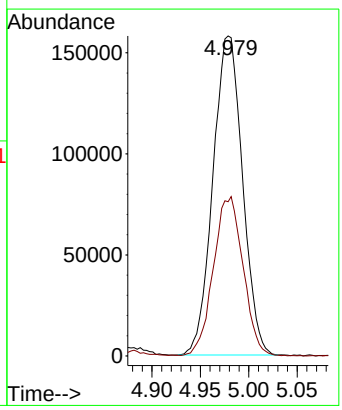


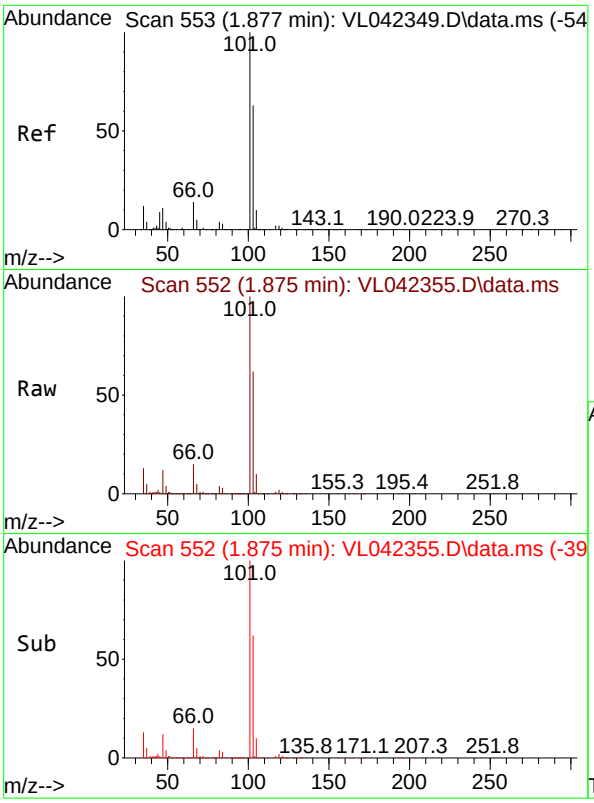


#10
Heptane
Concen: 14.047 ppbv
RT: 4.979 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 43 Resp: 336134

Ion	Ratio	Lower	Upper
43	100		
57	50.0	39.9	59.9



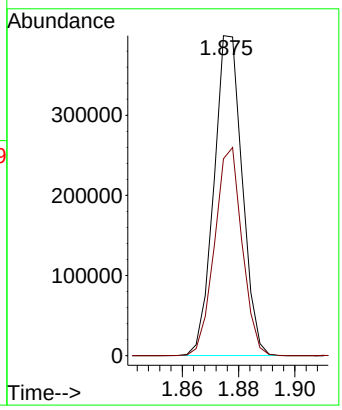


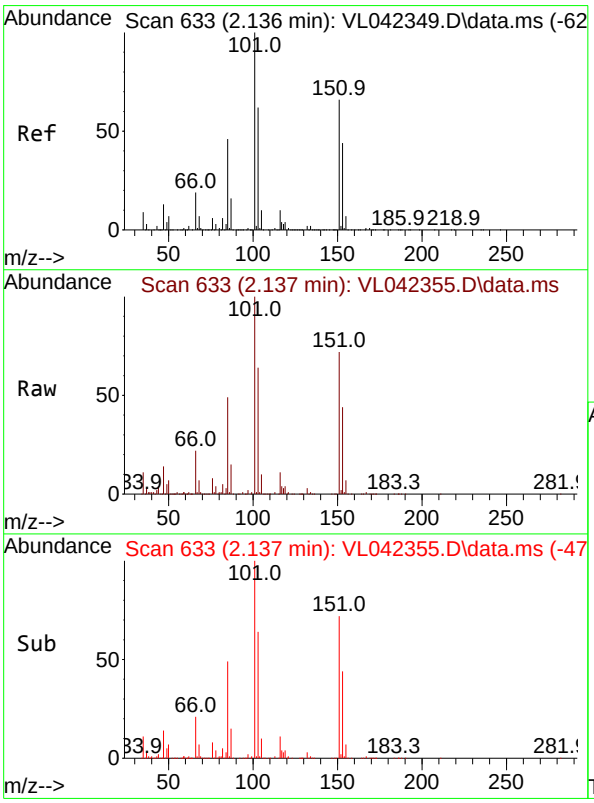
#11
Trichlorofluoromethane
Concen: 14.258 ppbv
RT: 1.875 min Scan# 5
Delta R.T. -0.003 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion:101 Resp: 278059

Ion	Ratio	Lower	Upper
101	100		
103	61.6	50.1	75.1

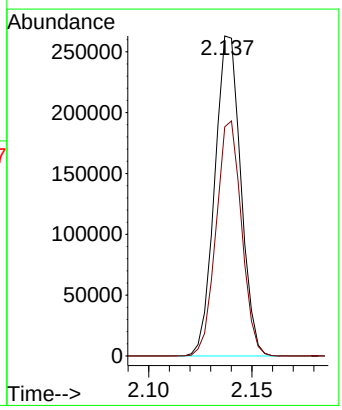


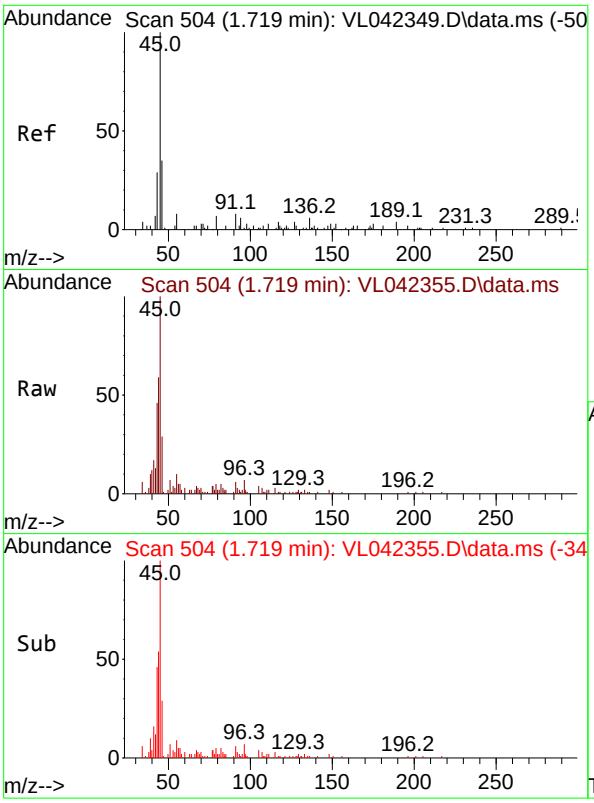


#12
1,1,2-Trichlorotrifluoroethane
Concen: 14.447 ppbv
RT: 2.137 min Scan# 633
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion:101 Resp: 230366

Ion	Ratio	Lower	Upper
101	100		
151	71.8	57.0	85.6



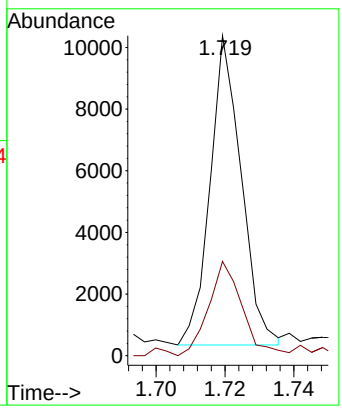


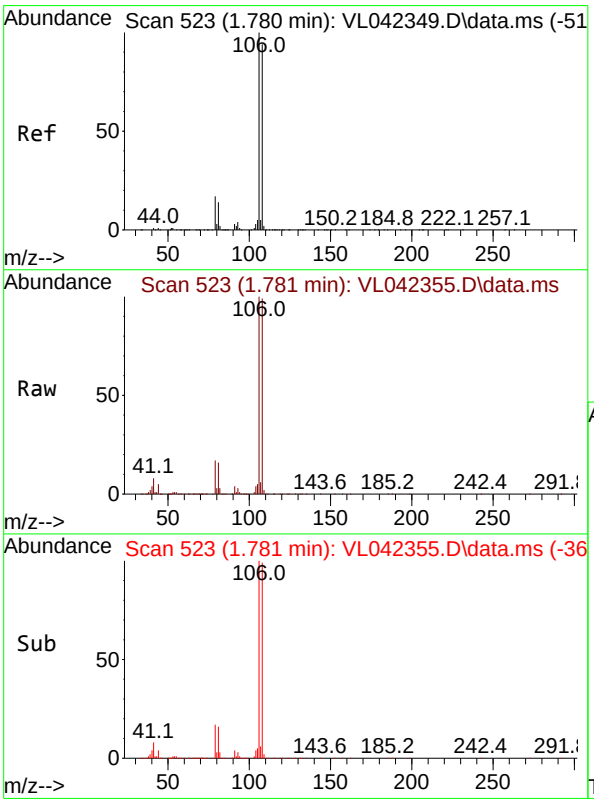
#13
Ethanol
Concen: 8.702 ppbv
RT: 1.719 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 45 Resp: 6324

Ion	Ratio	Lower	Upper
45	100		
46	37.6	21.9	87.7

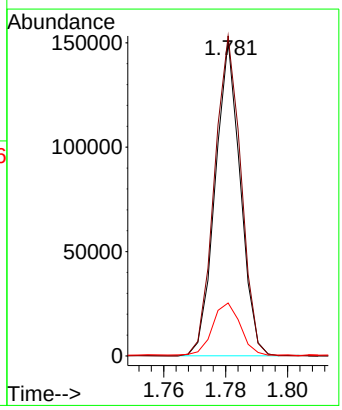


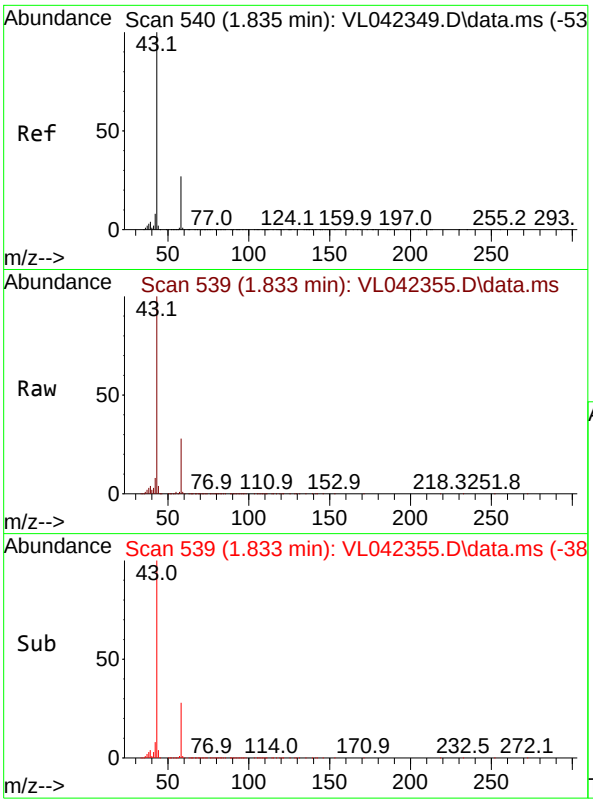


#14
Bromoethene
Concen: 14.117 ppbv
RT: 1.781 min Scan# 523
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

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



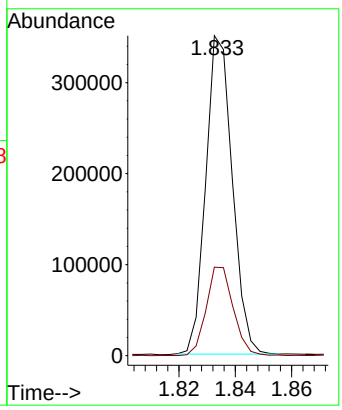


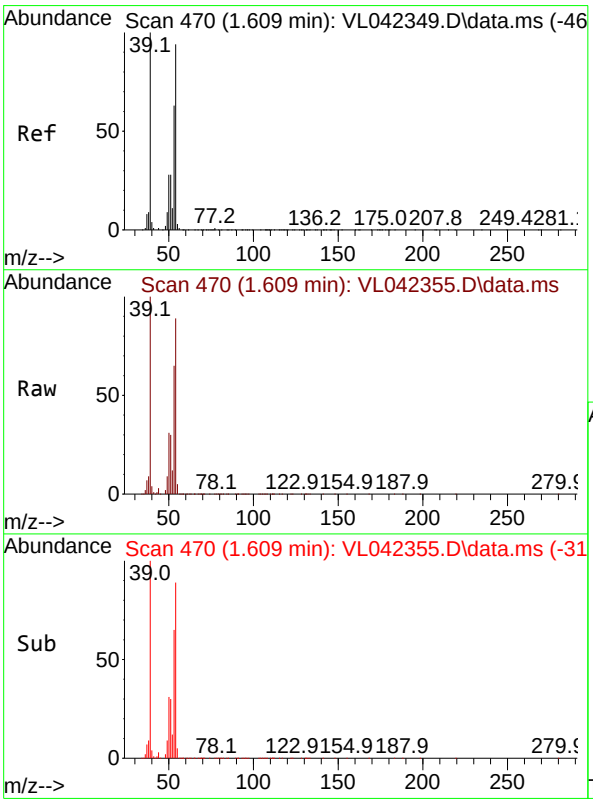
#15
Acetone
Concen: 12.056 ppbv
RT: 1.833 min Scan# 5
Delta R.T. -0.003 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 43 Resp: 229086

Ion	Ratio	Lower	Upper
43	100		
58	28.4	22.4	33.6

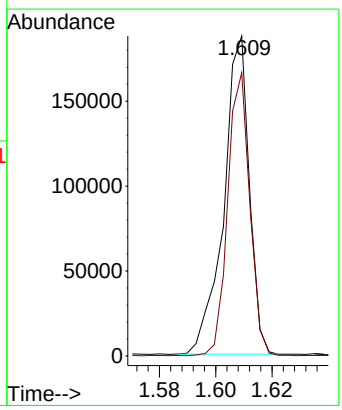


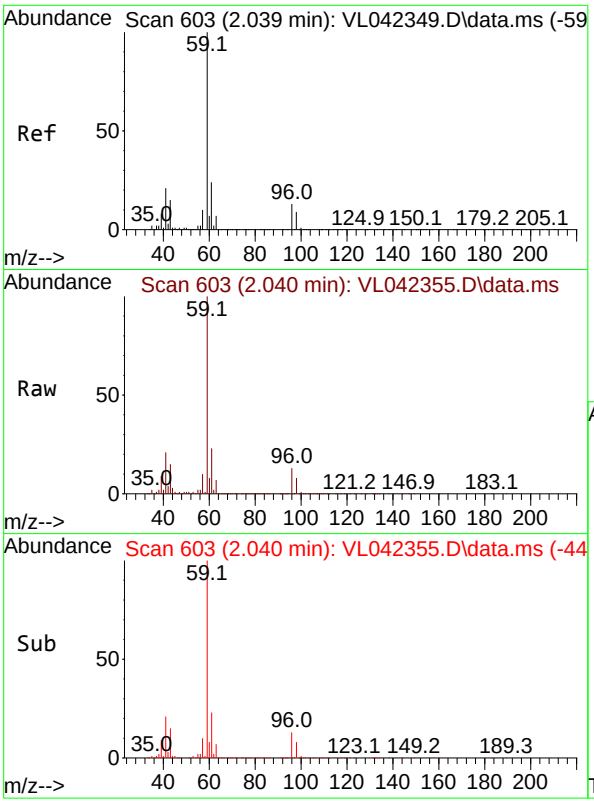


#16
1,3-Butadiene
Concen: 13.224 ppbv
RT: 1.609 min Scan# 470
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 39 Resp: 117997

Ion	Ratio	Lower	Upper
39	100		
54	77.2	64.9	97.3



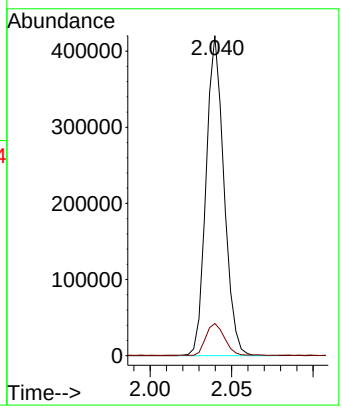


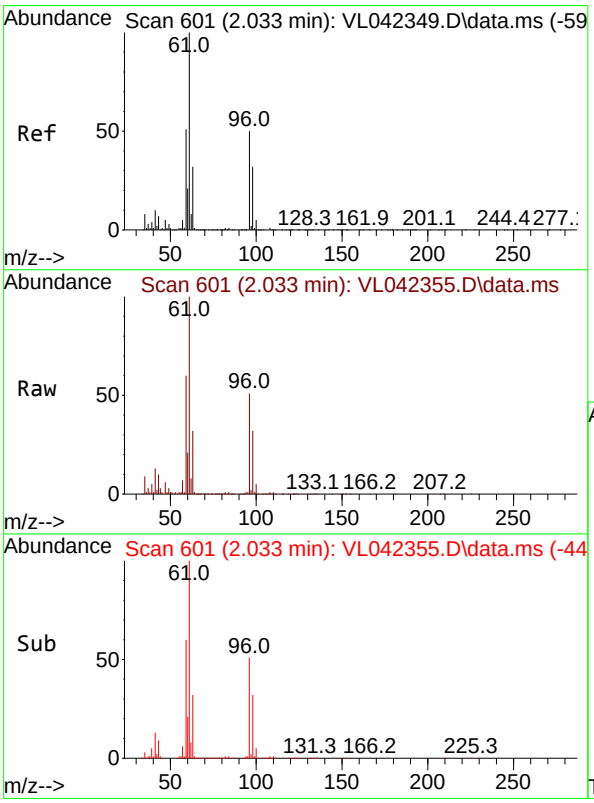
#17
tert-Butyl alcohol
Concen: 13.615 ppbv
RT: 2.040 min Scan# 6
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 59 Resp: 320605

Ion	Ratio	Lower	Upper
59	100		
57	10.6	8.7	13.1

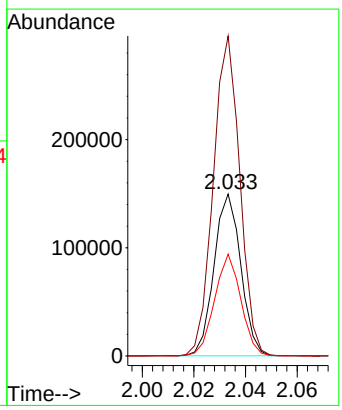


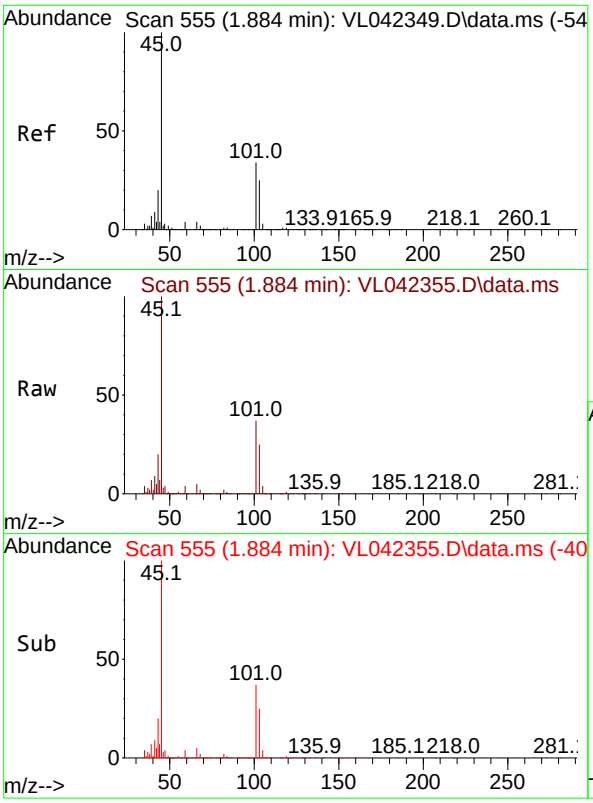


#18
1,1-Dichloroethene
Concen: 14.045 ppbv
RT: 2.033 min Scan# 601
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

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



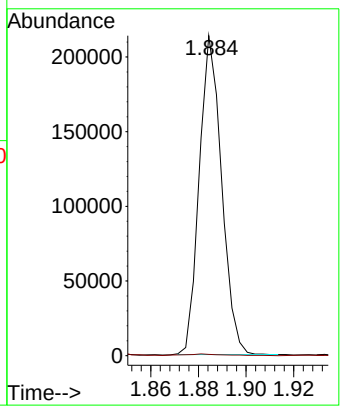


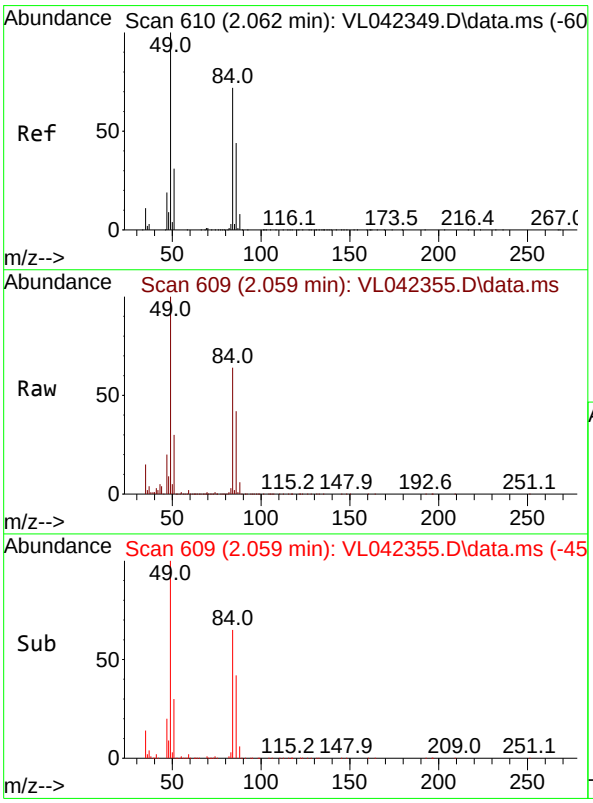
#19
Isopropyl Alcohol
Concen: 13.169 ppbv
RT: 1.884 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 45 Resp: 139004

Ion	Ratio	Lower	Upper
45	100		
58	46.9	34.5	51.7

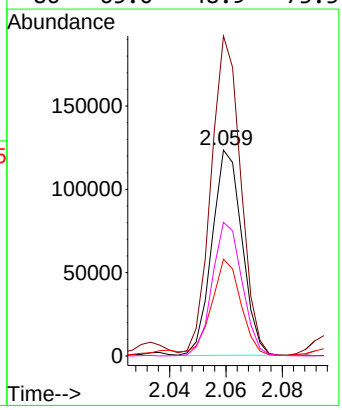


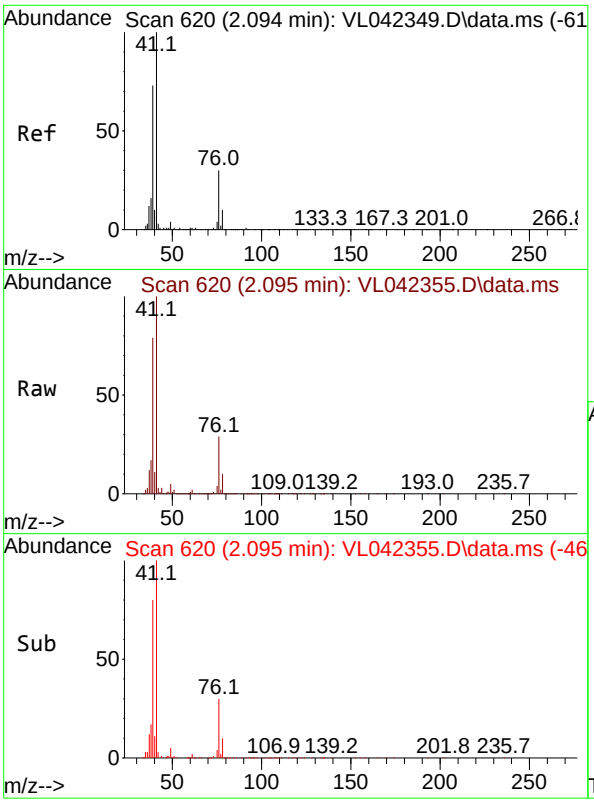


#20
Methylene Chloride
Concen: 12.241 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.003 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

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



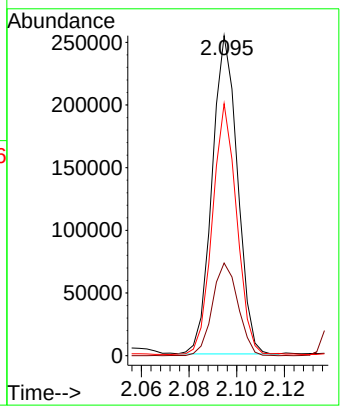


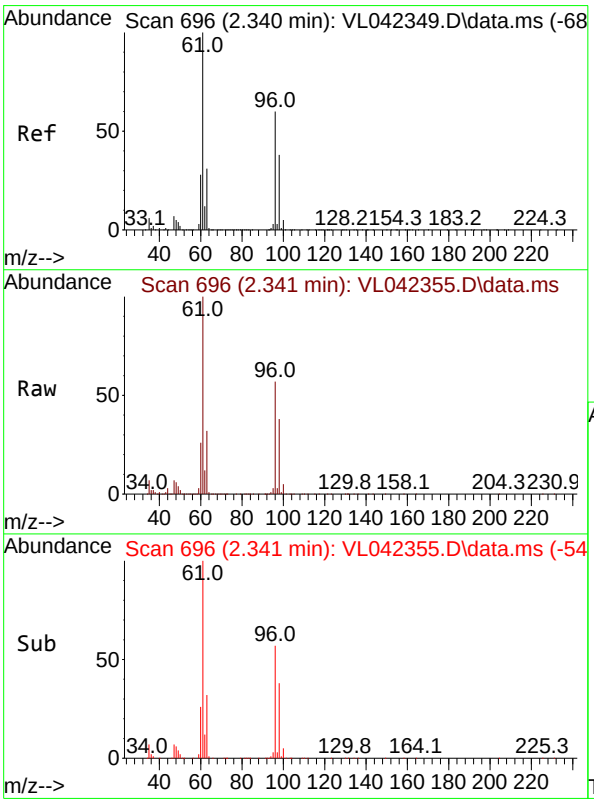
#21
Allyl Chloride
Concen: 14.329 ppbv
RT: 2.095 min Scan# 6
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

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

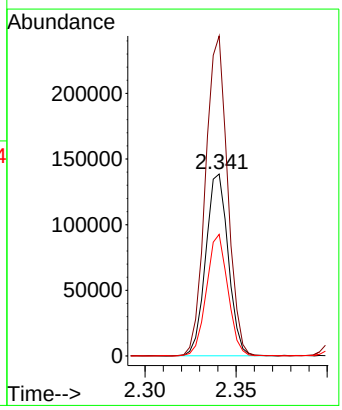


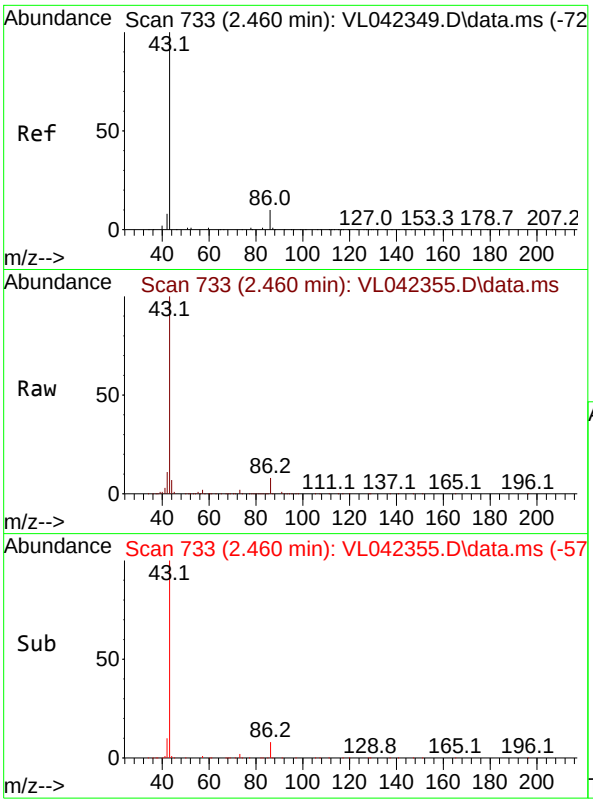


#22
trans-1,2-Dichloroethene
Concen: 13.970 ppbv
RT: 2.341 min Scan# 696
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

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



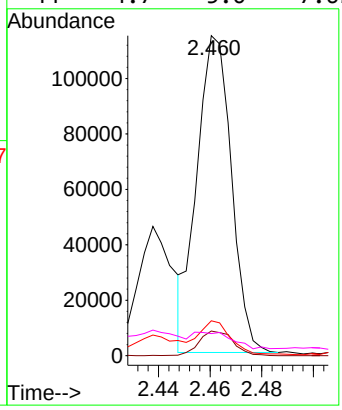


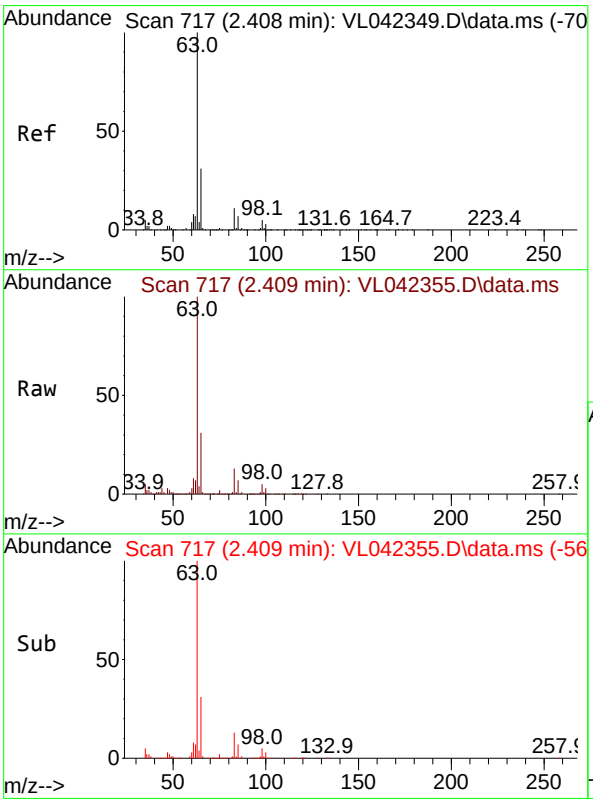
#23
Vinyl Acetate
Concen: 13.799 ppbv
RT: 2.460 min Scan# 7
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

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#

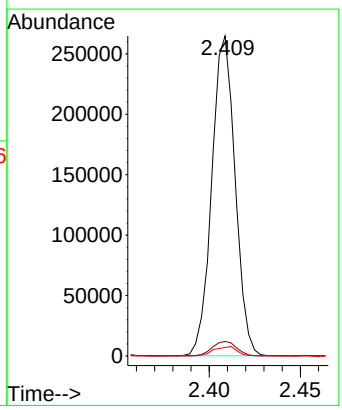


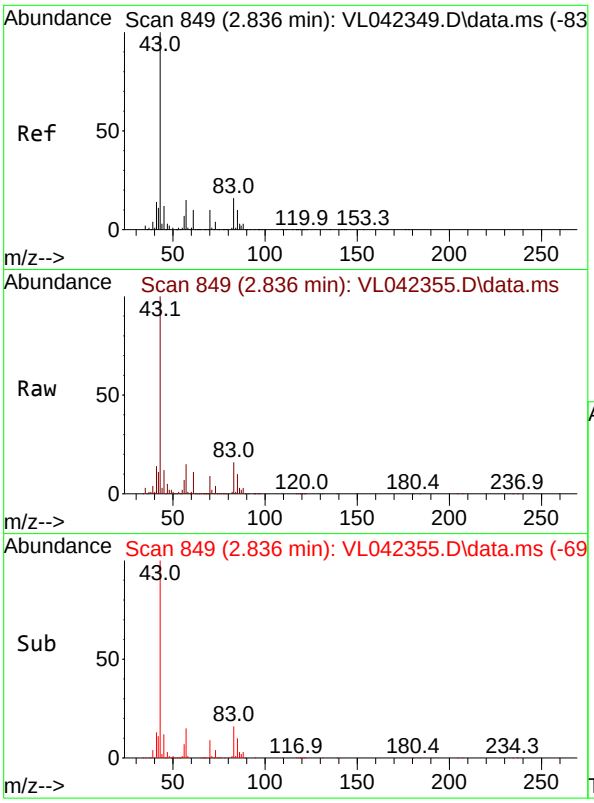


#24
1,1-Dichloroethane
Concen: 14.615 ppbv
RT: 2.409 min Scan# 717
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

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



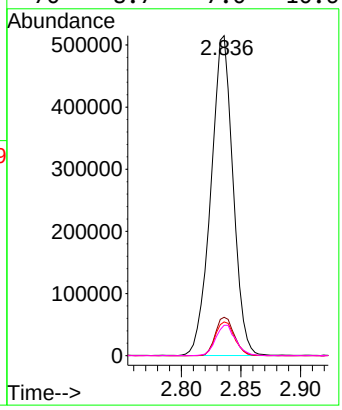


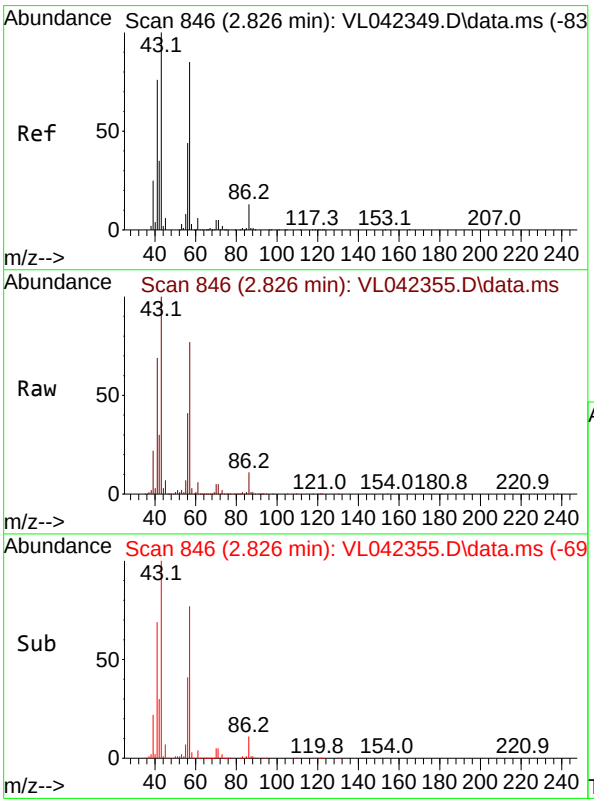
#25
Ethyl Acetate
Concen: 14.166 ppbv
RT: 2.836 min Scan# 84
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

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

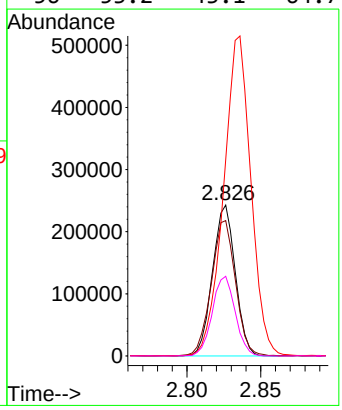


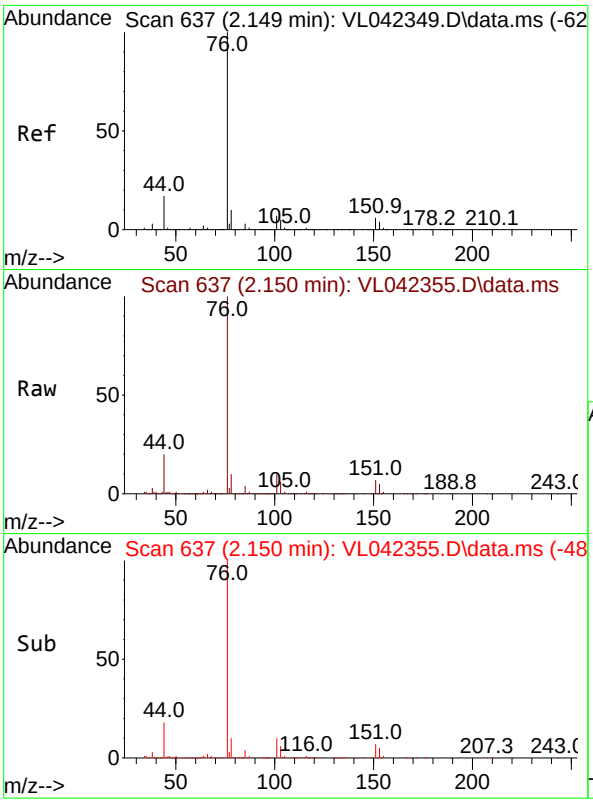


#26
Hexane
Concen: 13.765 ppbv
RT: 2.826 min Scan# 846
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

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



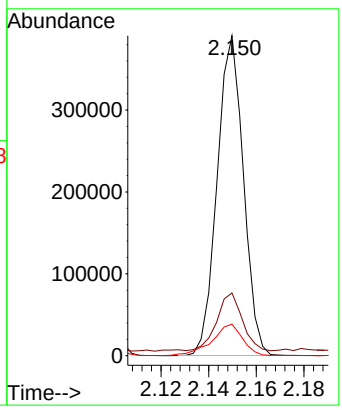


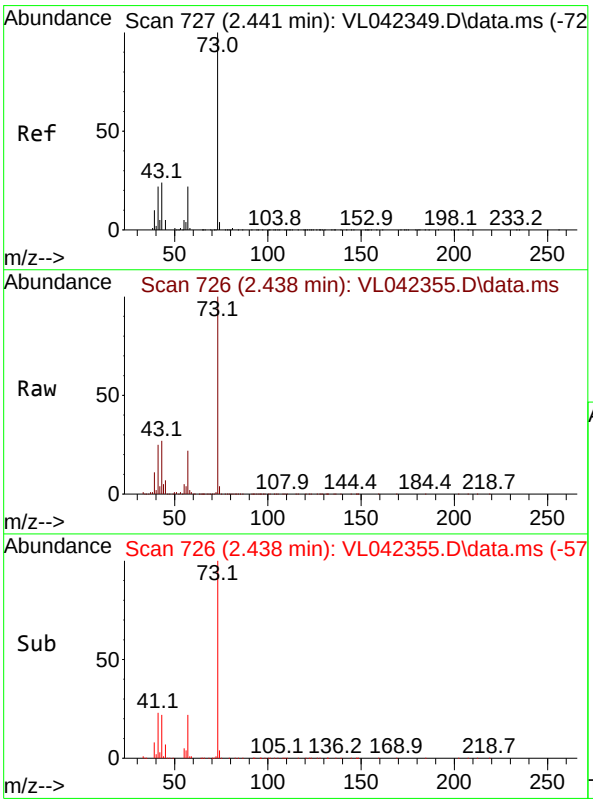
#27
Carbon Disulfide
Concen: 14.734 ppbv
RT: 2.150 min Scan# 6
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

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

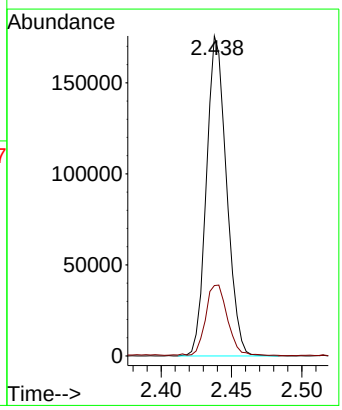


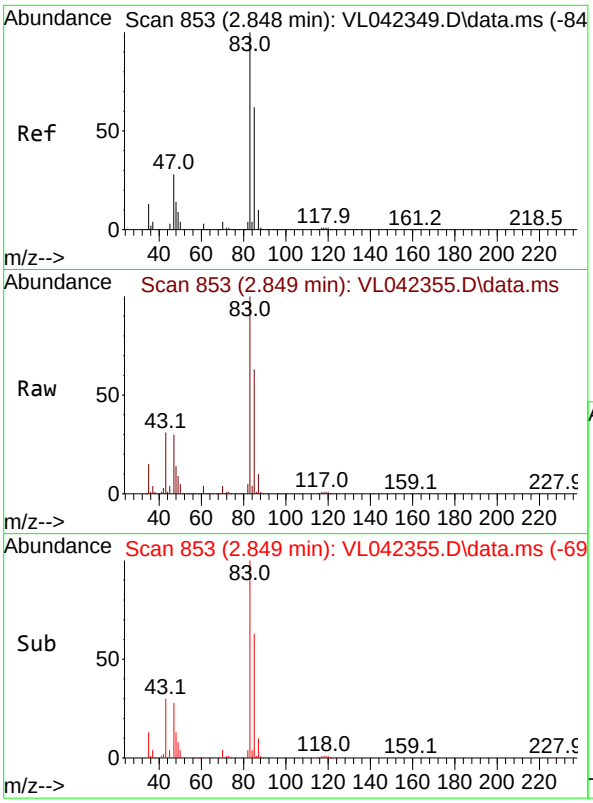


#28
Methyl tert-Butyl Ether
Concen: 14.076 ppbv
RT: 2.438 min Scan# 726
Delta R.T. -0.003 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 73 Resp: 174855

Ion	Ratio	Lower	Upper
73	100		
57	24.3	21.3	31.9



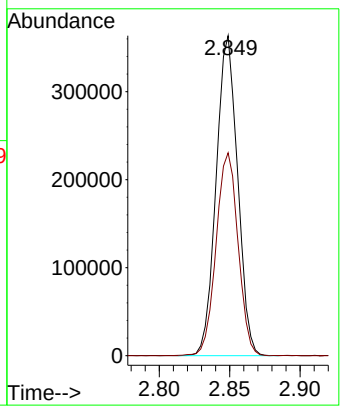


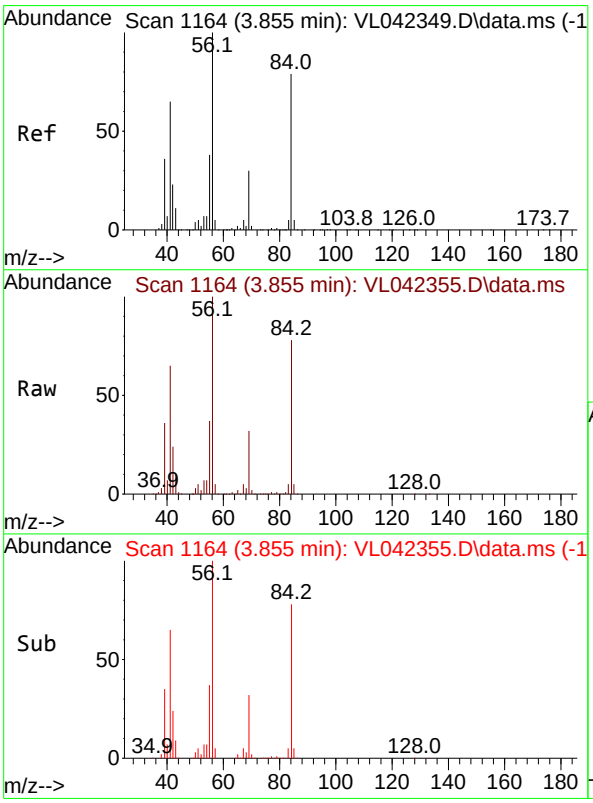
#29
Chloroform
Concen: 14.393 ppbv
RT: 2.849 min Scan# 8
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 83 Resp: 385686

Ion	Ratio	Lower	Upper
83	100		
85	63.4	50.0	75.0

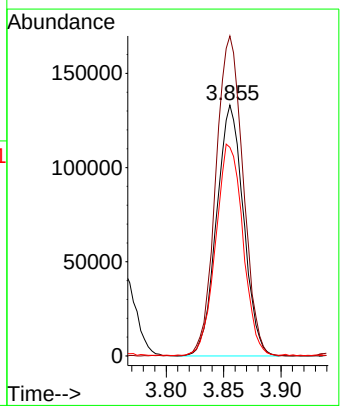


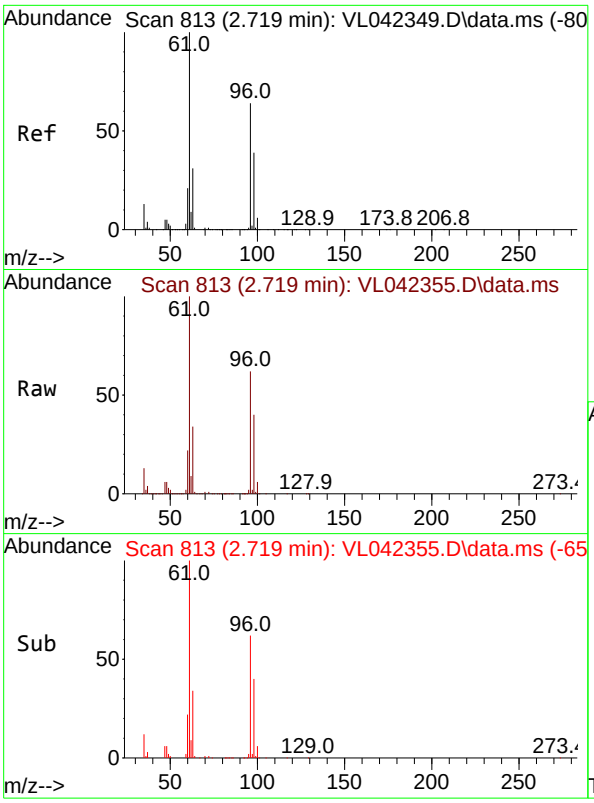


#30
Cyclohexane
Concen: 14.238 ppbv
RT: 3.855 min Scan# 1164
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

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



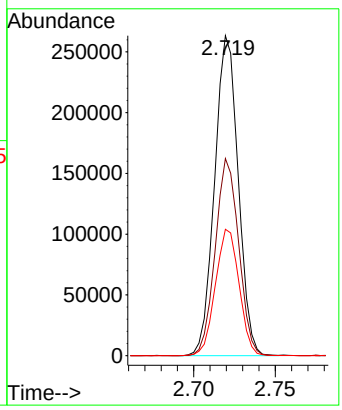


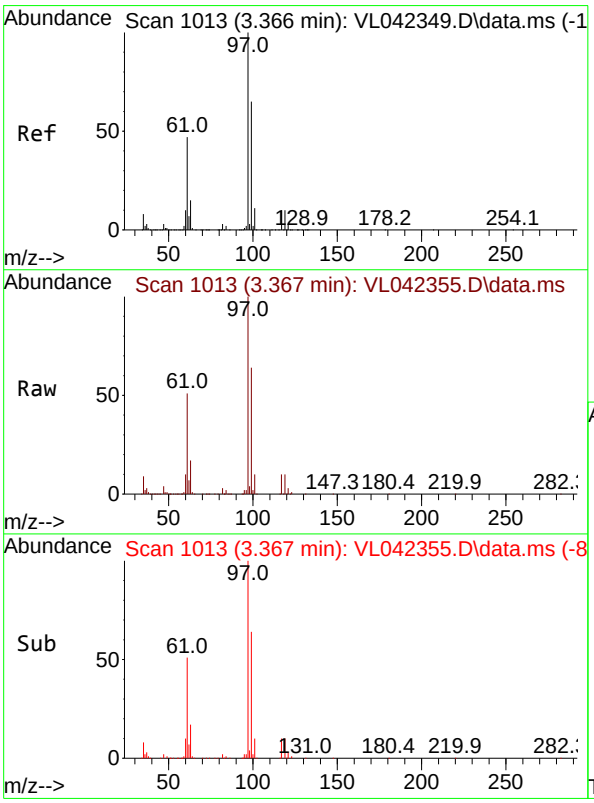
#31
cis-1,2-Dichloroethene
Concen: 14.700 ppbv
RT: 2.719 min Scan# 8
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

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

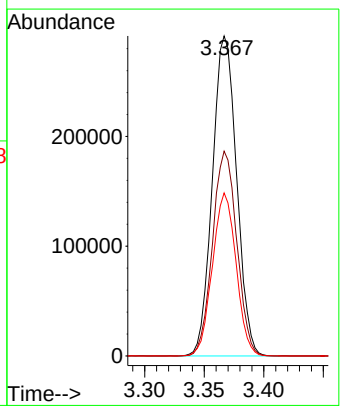


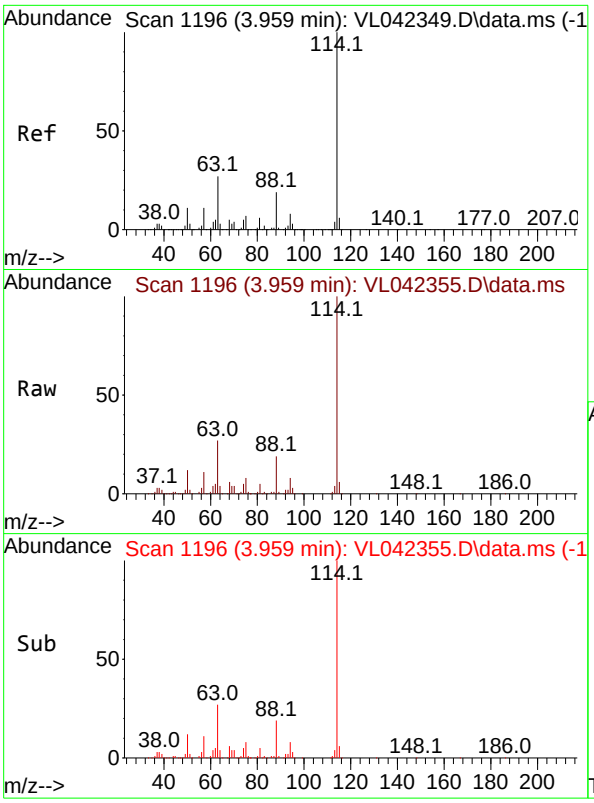


#32
1,1,1-Trichloroethane
Concen: 14.357 ppbv
RT: 3.367 min Scan# 1013
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

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



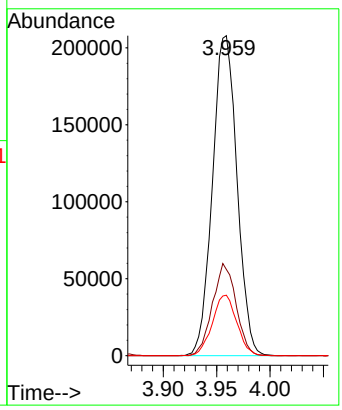


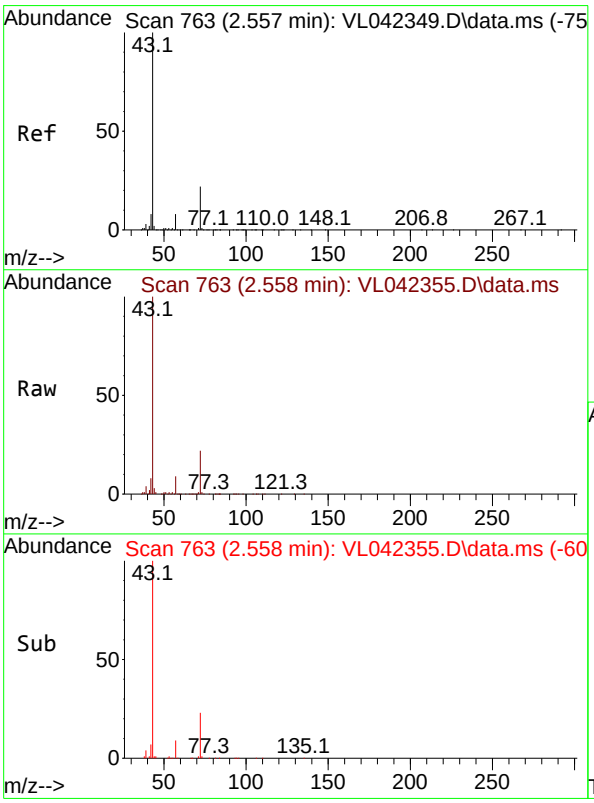
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.959 min Scan# 1
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

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

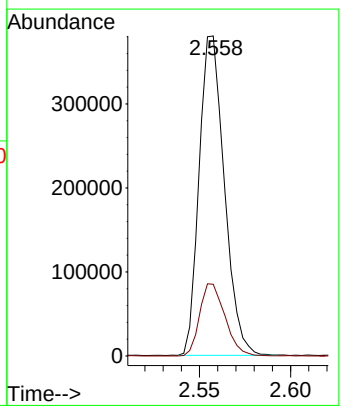


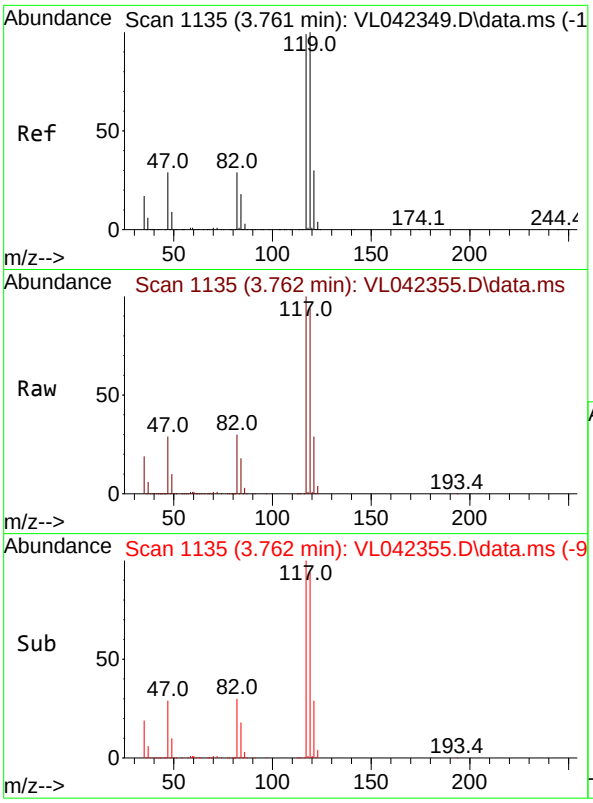


#34
2-Butanone
Concen: 13.986 ppbv
RT: 2.558 min Scan# 763
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 43 Resp: 367315

Ion	Ratio	Lower	Upper
43	100		
72	22.7	18.2	27.2



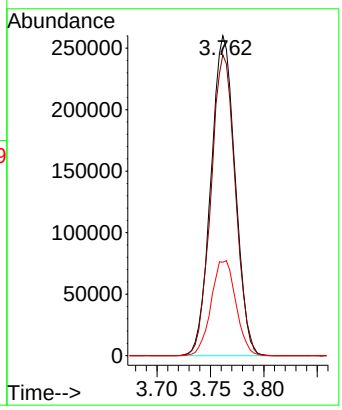


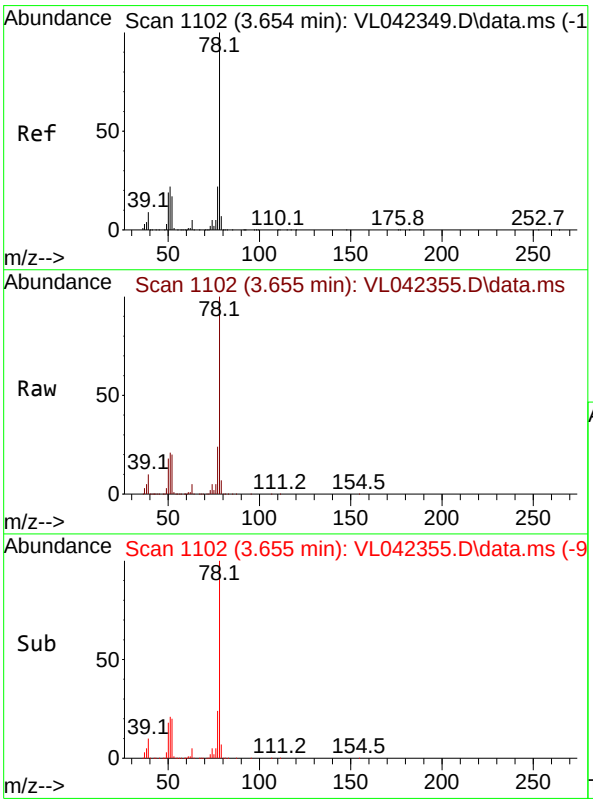
#35
Carbon Tetrachloride
Concen: 13.639 ppbv
RT: 3.762 min Scan# 1
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

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

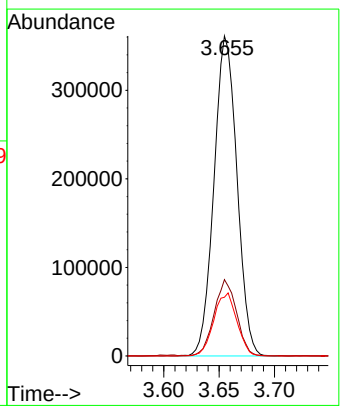


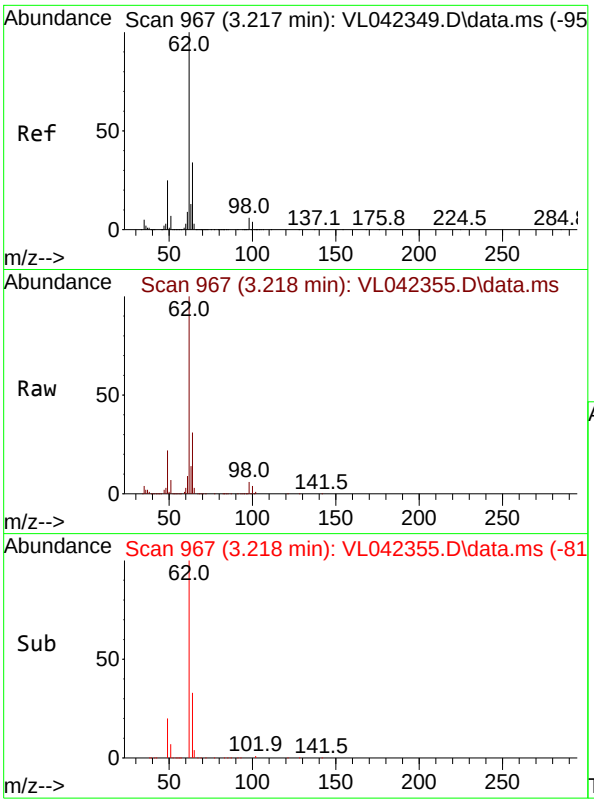


#36
Benzene
Concen: 14.578 ppbv
RT: 3.655 min Scan# 1102
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

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



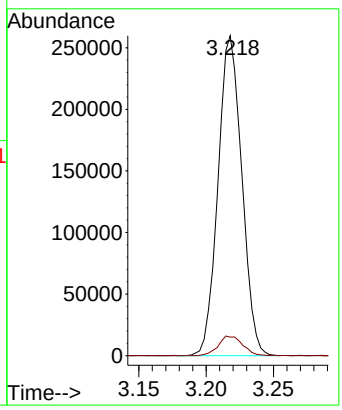


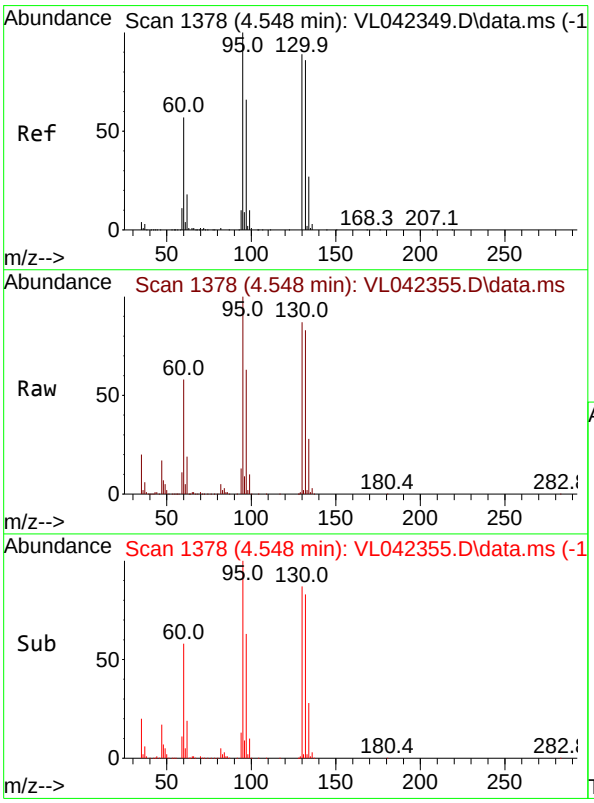
#37
1,2-Dichloroethane
Concen: 14.863 ppbv
RT: 3.218 min Scan# 9
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 62 Resp: 319517

Ion	Ratio	Lower	Upper
62	100		
98	6.3	5.1	7.7

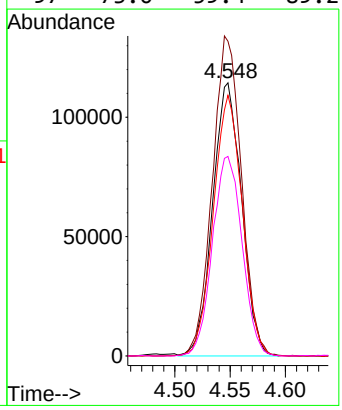


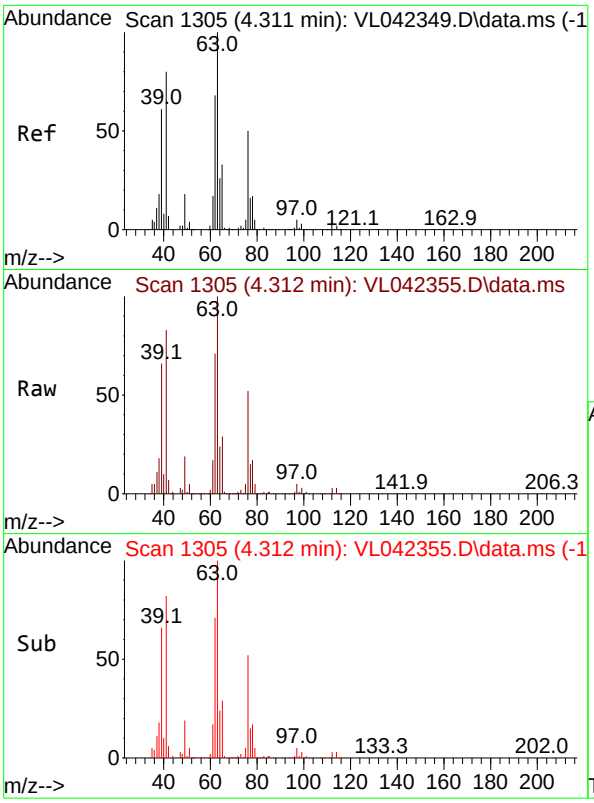


#38
Trichloroethene
Concen: 13.278 ppbv
RT: 4.548 min Scan# 1378
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

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



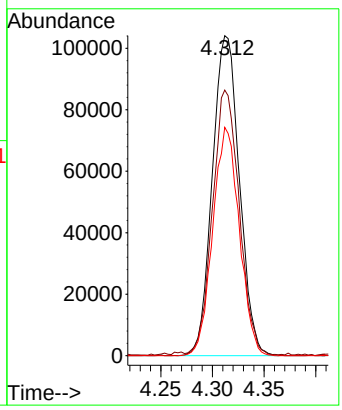


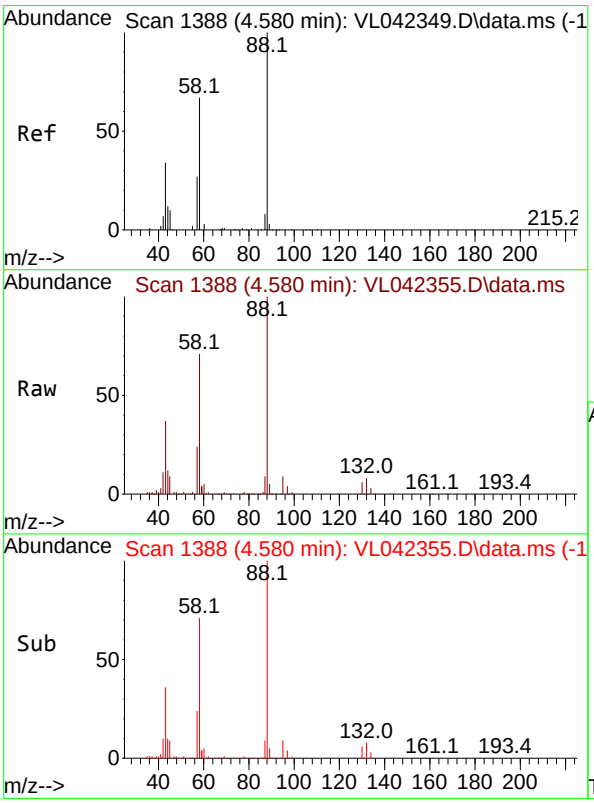
#39
1,2-Dichloropropane
Concen: 14.201 ppbv
RT: 4.312 min Scan# 1
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

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

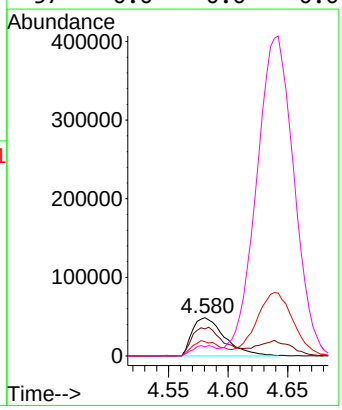


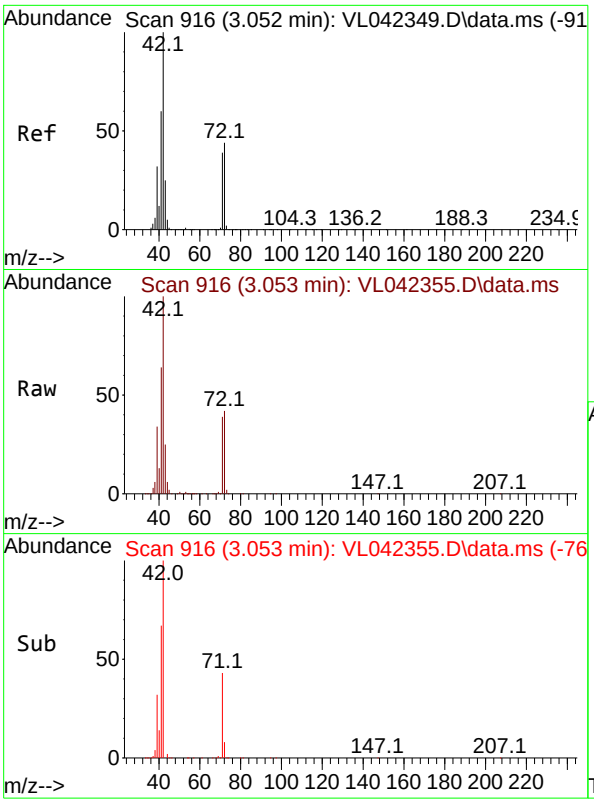


#40
1,4-Dioxane
Concen: 12.733 ppbv
RT: 4.580 min Scan# 1388
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

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



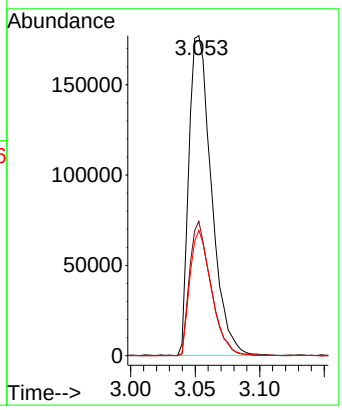


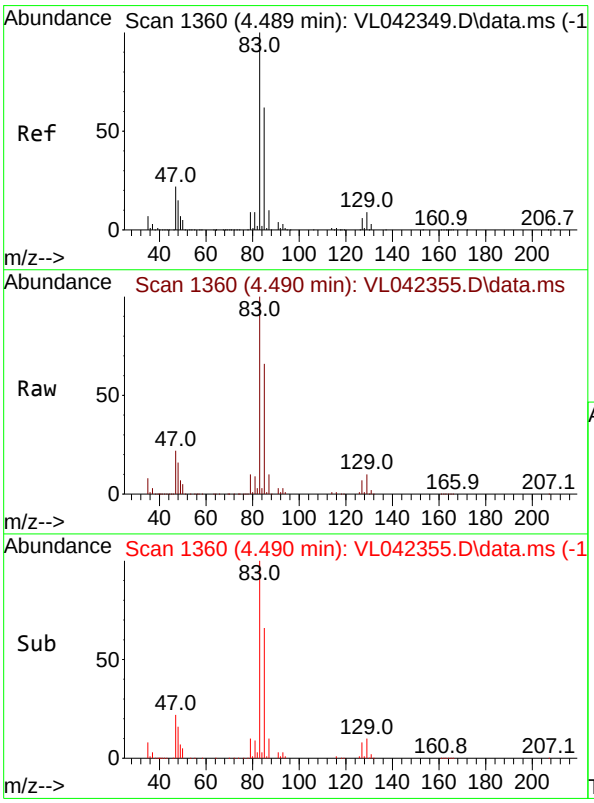
#41
Tetrahydrofuran
Concen: 14.166 ppbv
RT: 3.053 min Scan# 91
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

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

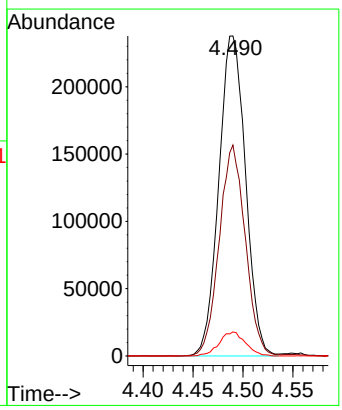


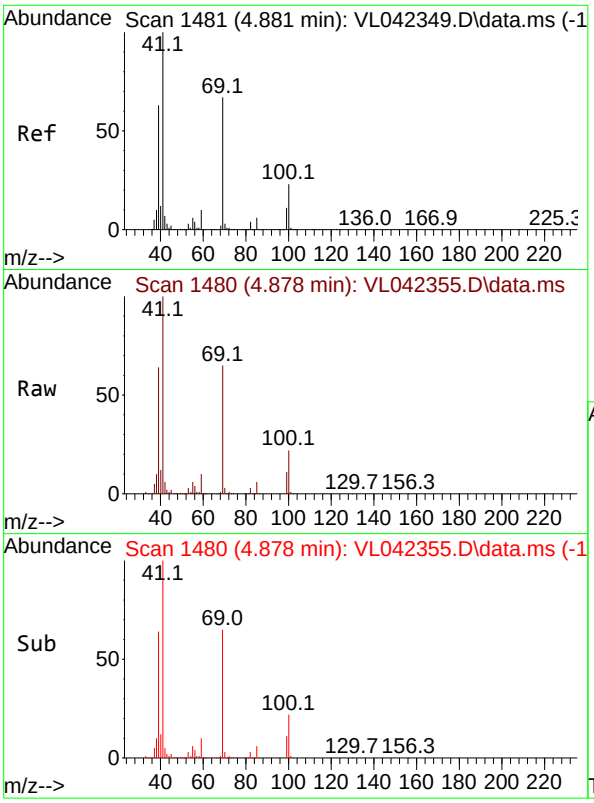


#42
Bromodichloromethane
Concen: 14.798 ppbv
RT: 4.490 min Scan# 1360
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

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



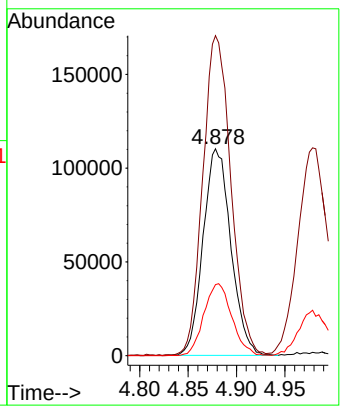


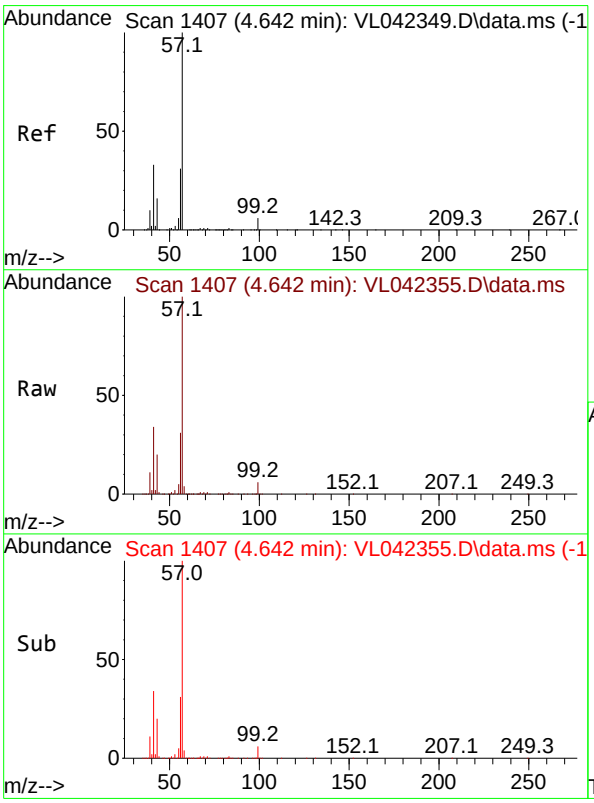
#43
Methyl Methacrylate
Concen: 13.670 ppbv
RT: 4.878 min Scan# 14
Delta R.T. -0.003 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

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

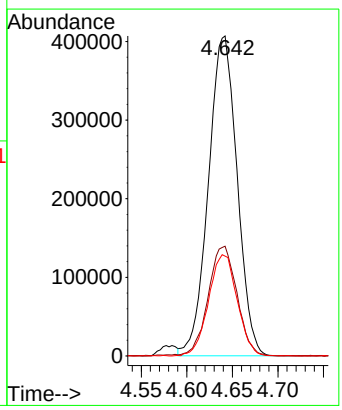


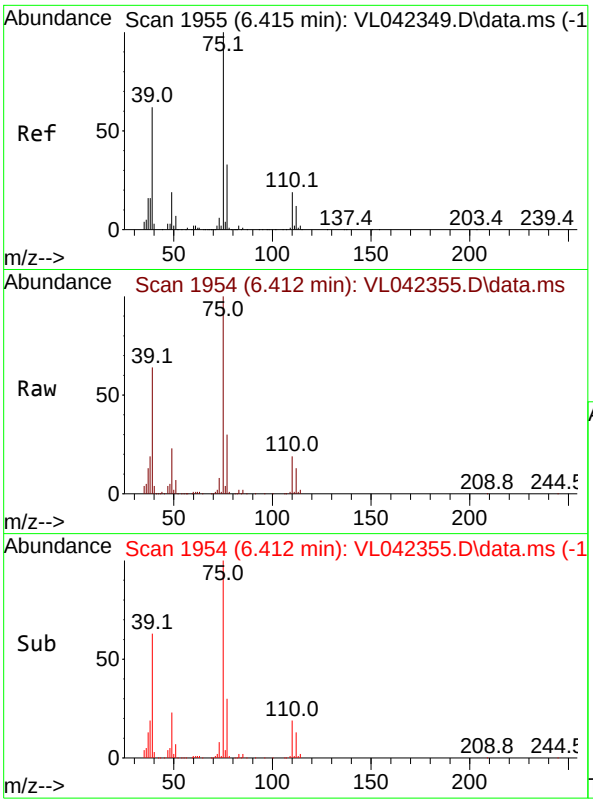


#44
2,2,4-Trimethylpentane
Concen: 14.425 ppbv
RT: 4.642 min Scan# 1407
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

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



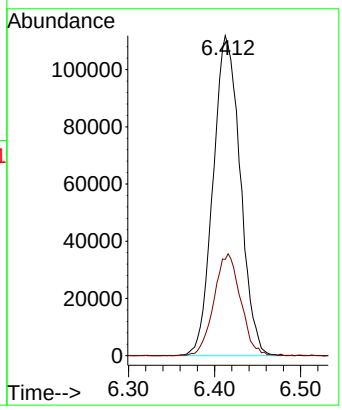


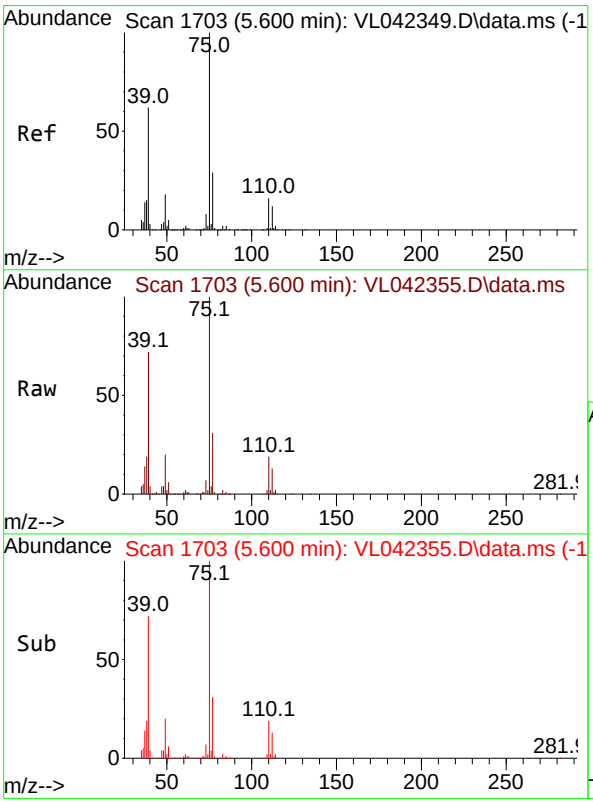
#45
t-1,3-Dichloropropene
Concen: 14.810 ppbv
RT: 6.412 min Scan# 1
Delta R.T. -0.003 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 75 Resp: 244470

Ion	Ratio	Lower	Upper
75	100		
77	30.1	27.0	40.6

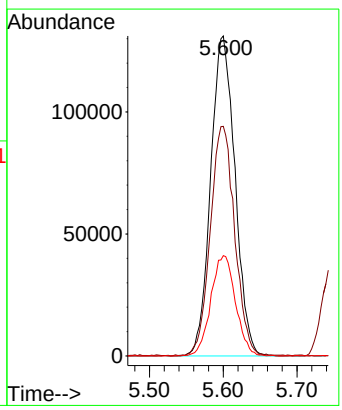


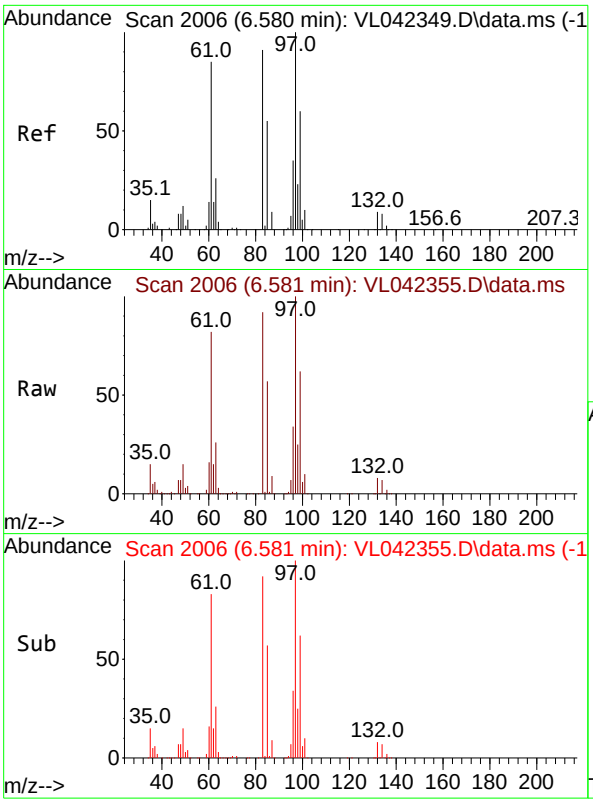


#46
cis-1,3-Dichloropropene
Concen: 14.878 ppbv
RT: 5.600 min Scan# 1703
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

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



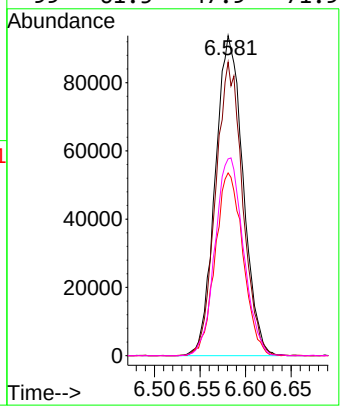


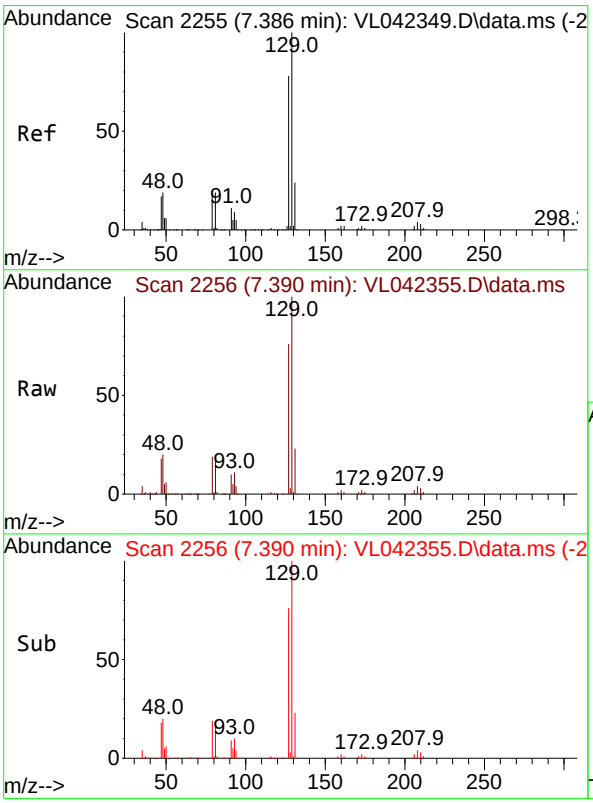
#47
1,1,2-Trichloroethane
Concen: 14.615 ppbv
RT: 6.581 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

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

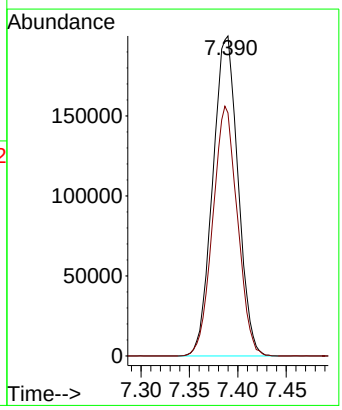


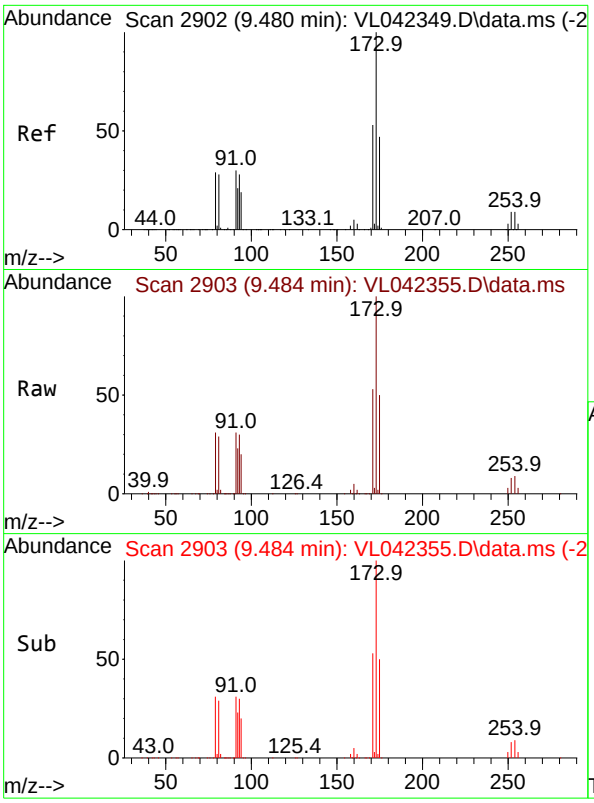


#48
Dibromochloromethane
Concen: 15.105 ppbv
RT: 7.390 min Scan# 2256
Delta R.T. 0.004 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion:129 Resp: 362887

Ion	Ratio	Lower	Upper
129	100		
127	76.3	39.1	117.3



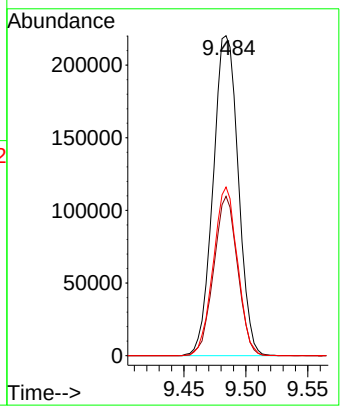


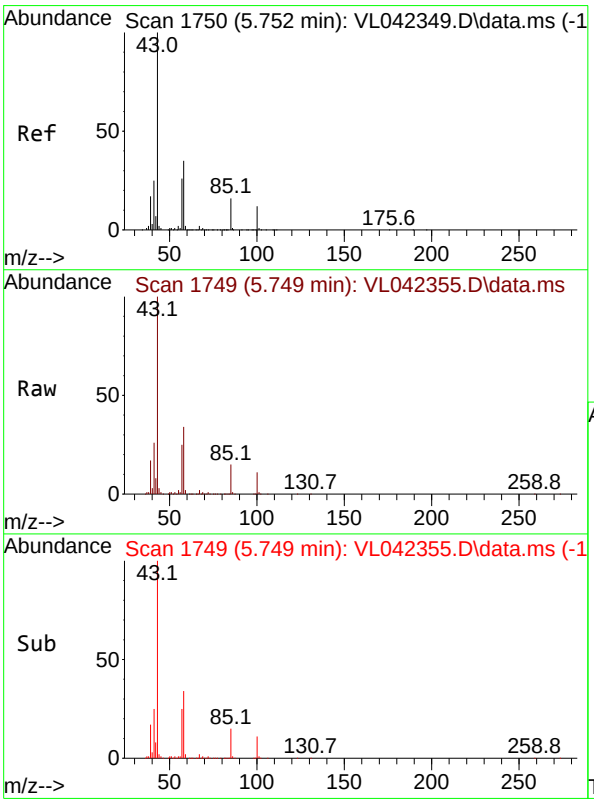
#49
Bromoform
Concen: 14.865 ppbv
RT: 9.484 min Scan# 2
Delta R.T. 0.004 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

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

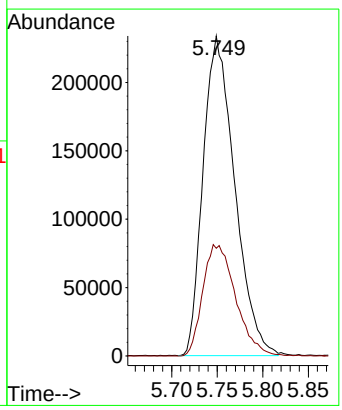


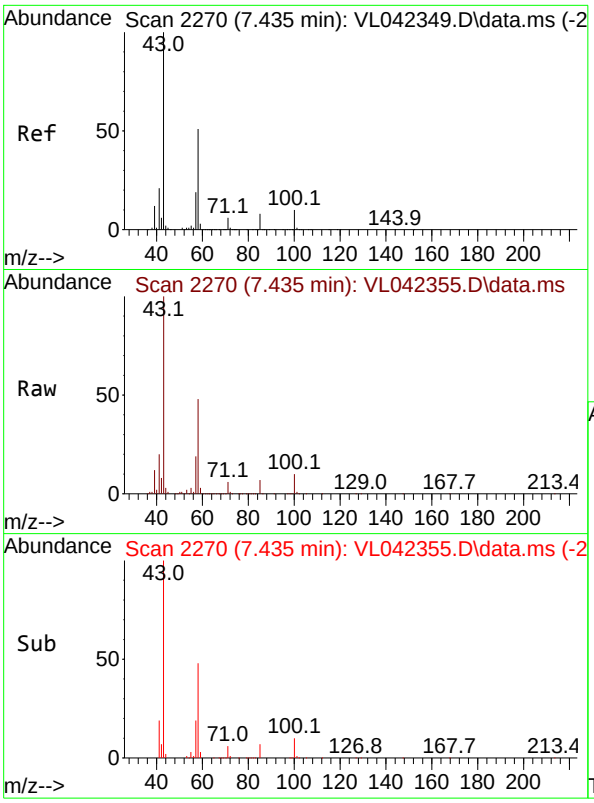


#50
4-Methyl-2-Pentanone
Concen: 12.889 ppbv
RT: 5.749 min Scan# 1749
Delta R.T. -0.003 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 43 Resp: 563658

Ion	Ratio	Lower	Upper
43	100		
58	36.3	28.6	43.0



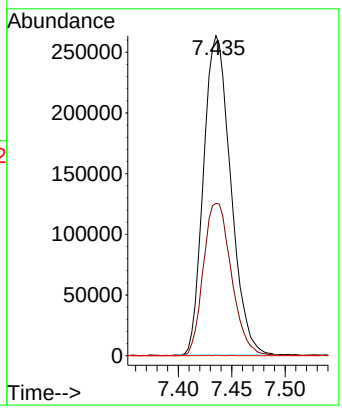


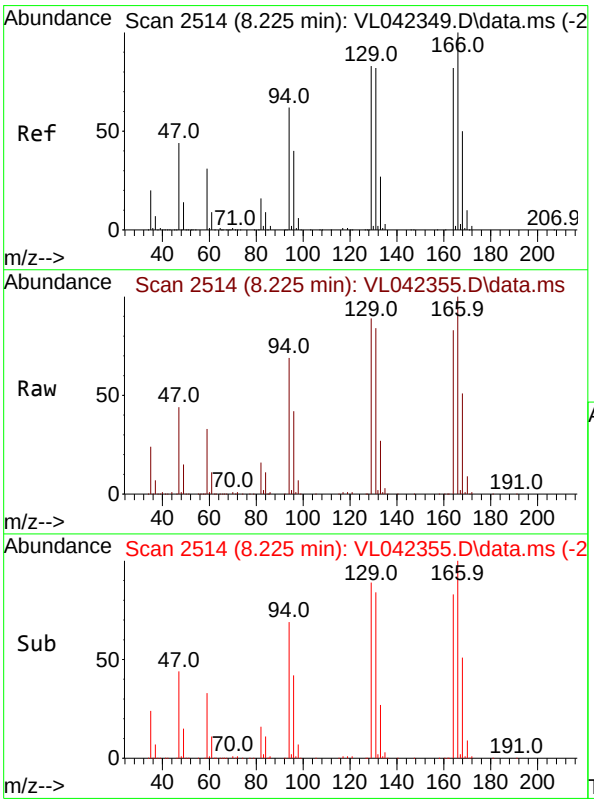
#51
2-Hexanone
Concen: 11.834 ppbv
RT: 7.435 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

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#

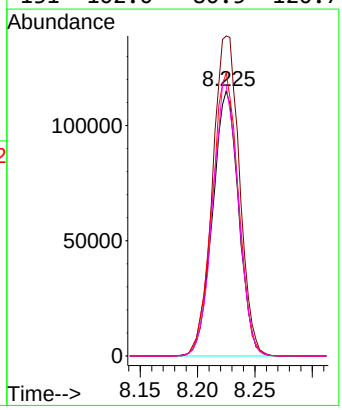


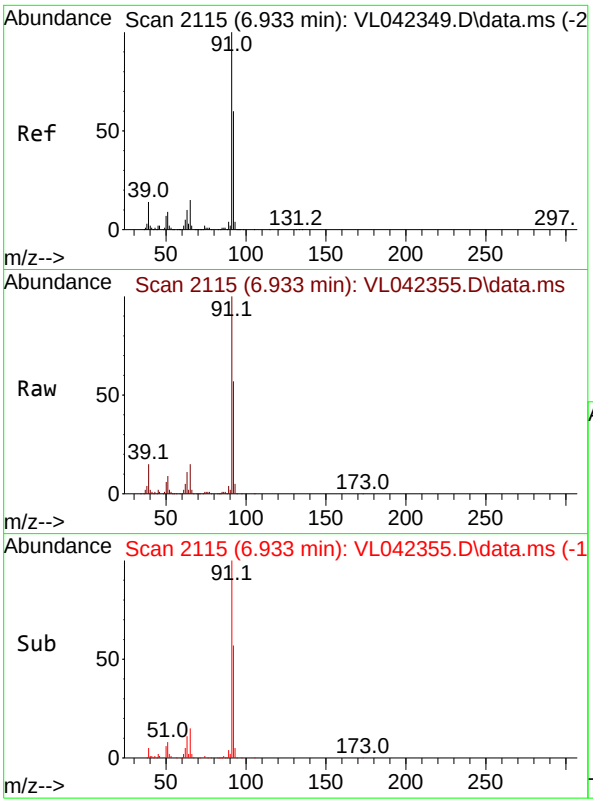


#52
Tetrachloroethene
Concen: 13.046 ppbv
RT: 8.225 min Scan# 2514
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

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



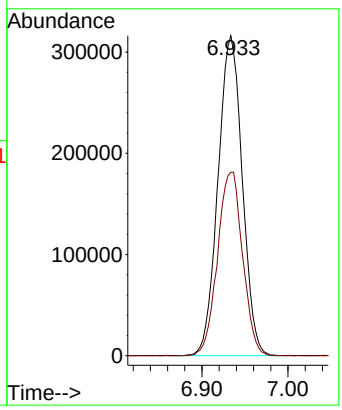


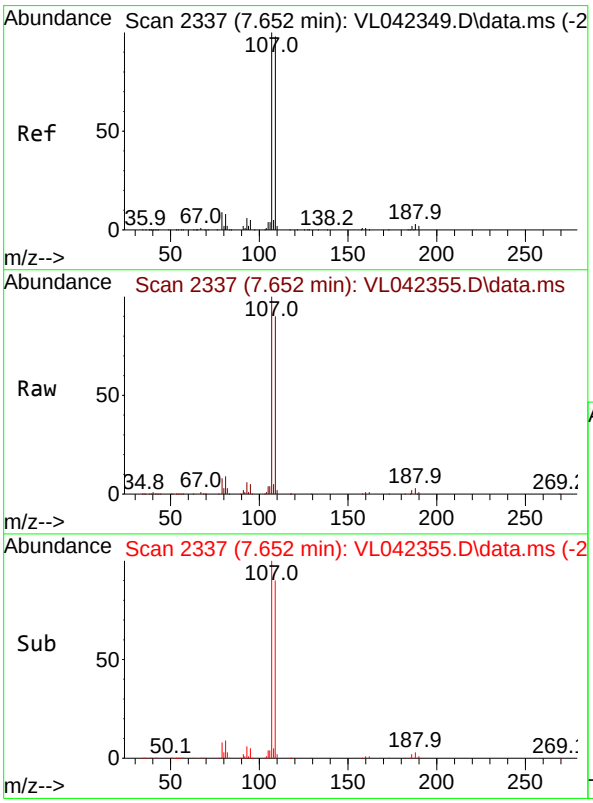
#53
Toluene
Concen: 14.411 ppbv
RT: 6.933 min Scan# 21
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 91 Resp: 619420

Ion	Ratio	Lower	Upper
91	100		
92	59.3	48.2	72.4

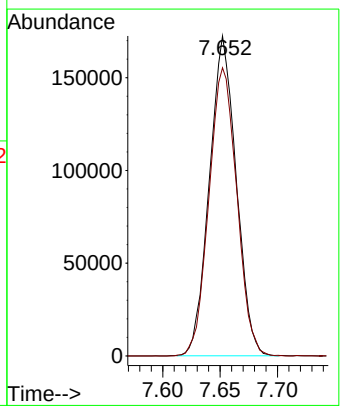


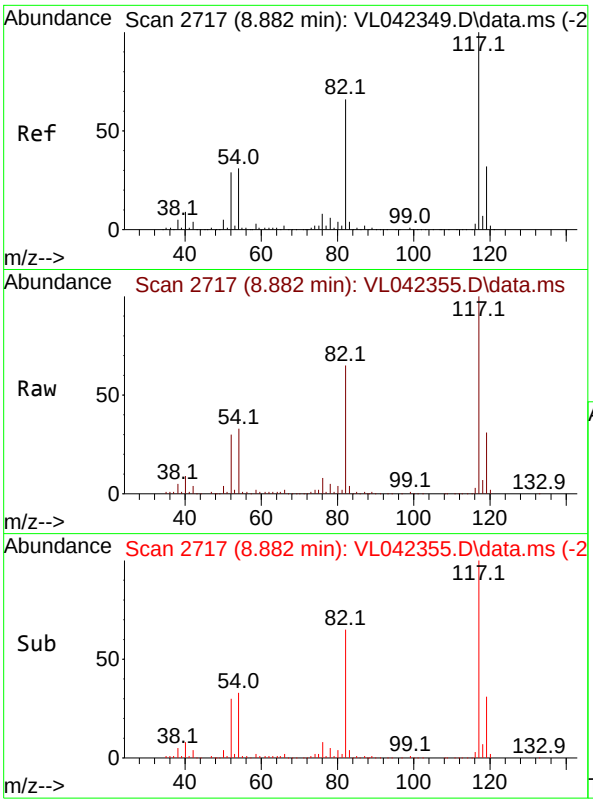


#54
1,2-Dibromoethane
Concen: 14.442 ppbv
RT: 7.652 min Scan# 2337
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion:107 Resp: 280071

Ion	Ratio	Lower	Upper
107	100		
109	89.9	78.2	117.4



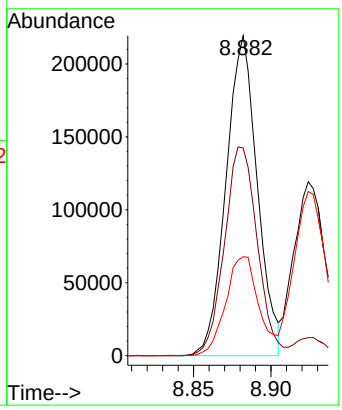


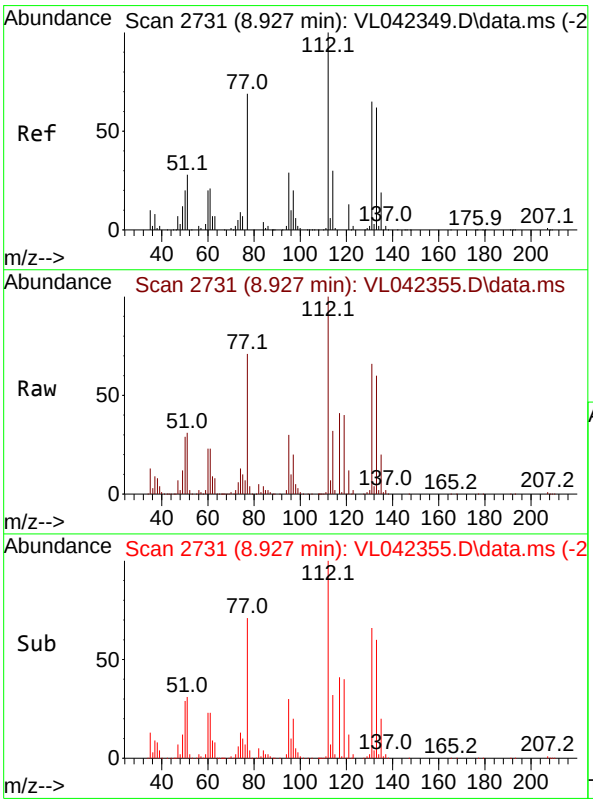
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.882 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

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

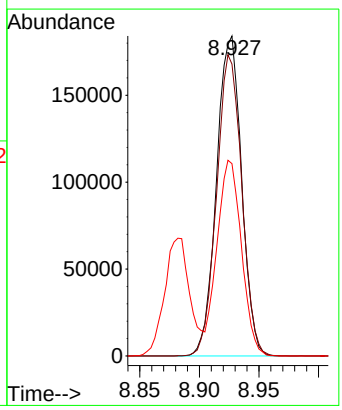


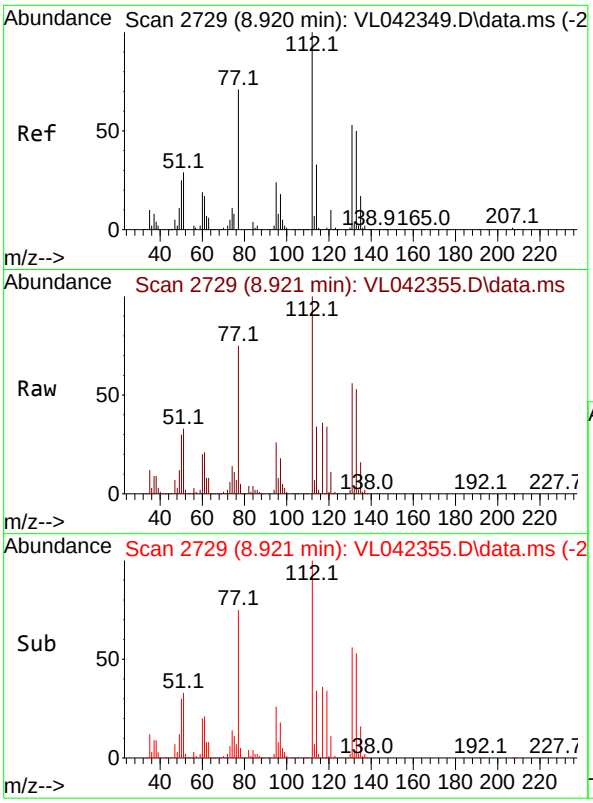


#56
1,1,1,2-Tetrachloroethane
Concen: 14.389 ppbv
RT: 8.927 min Scan# 2731
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

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



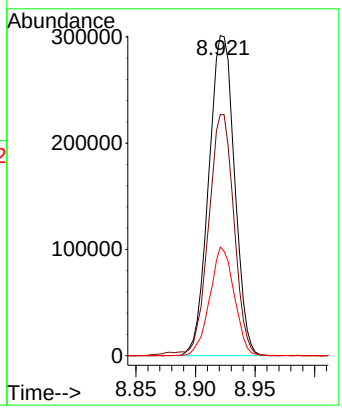


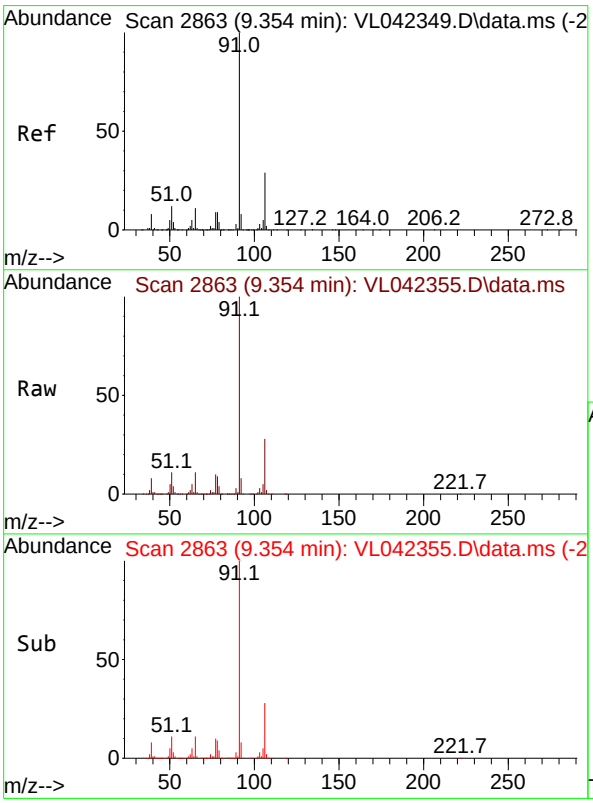
#57
Chlorobenzene
Concen: 14.151 ppbv
RT: 8.921 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

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

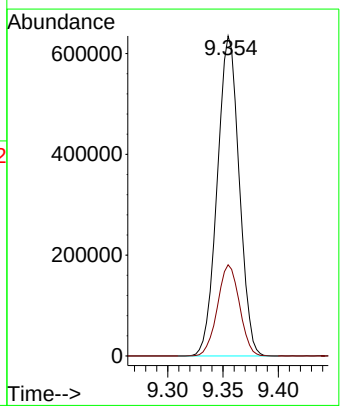


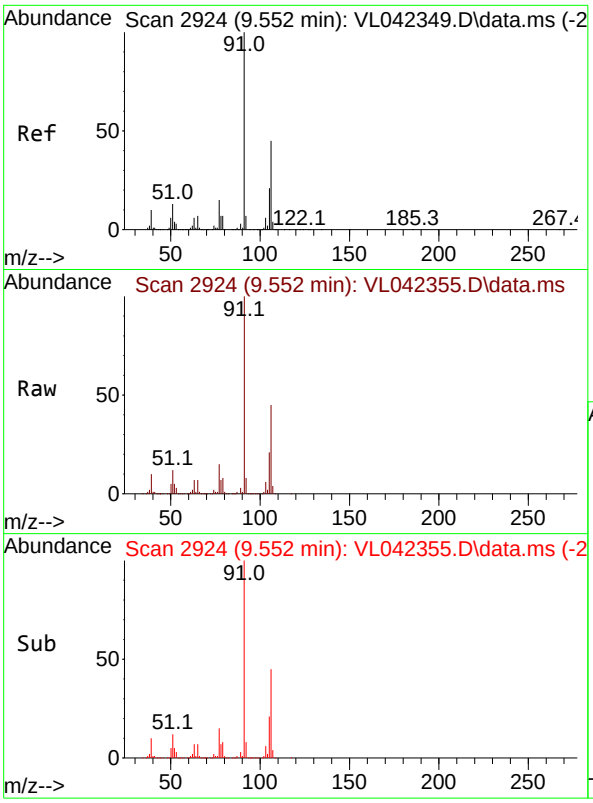


#58
Ethyl Benzene
Concen: 14.308 ppbv
RT: 9.354 min Scan# 2863
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 91 Resp: 874424

Ion	Ratio	Lower	Upper
91	100		
106	28.5	23.0	34.4



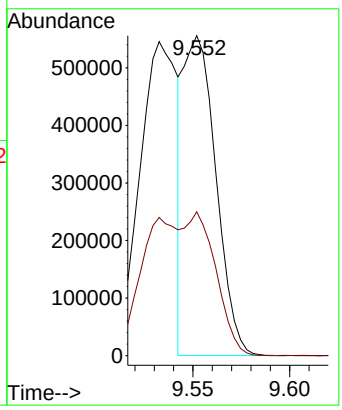


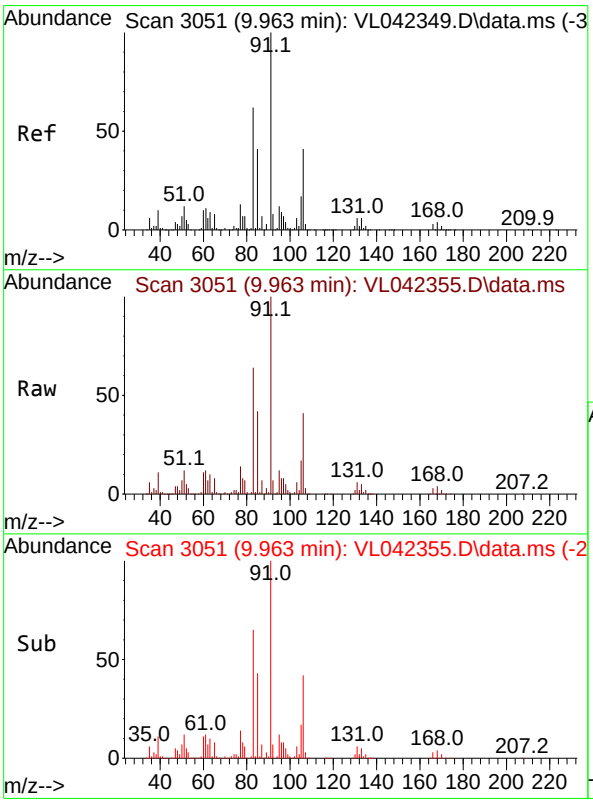
#59
m/p-Xylene
Concen: 13.067 ppbv
RT: 9.552 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 91 Resp: 645250

Ion	Ratio	Lower	Upper
91	100		
106	95.8	35.4	53.2#

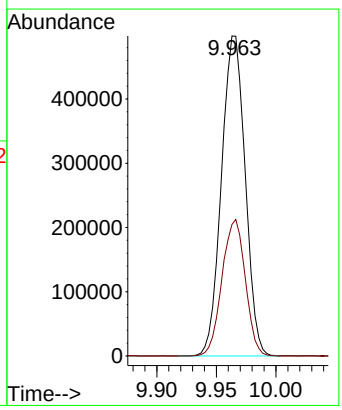


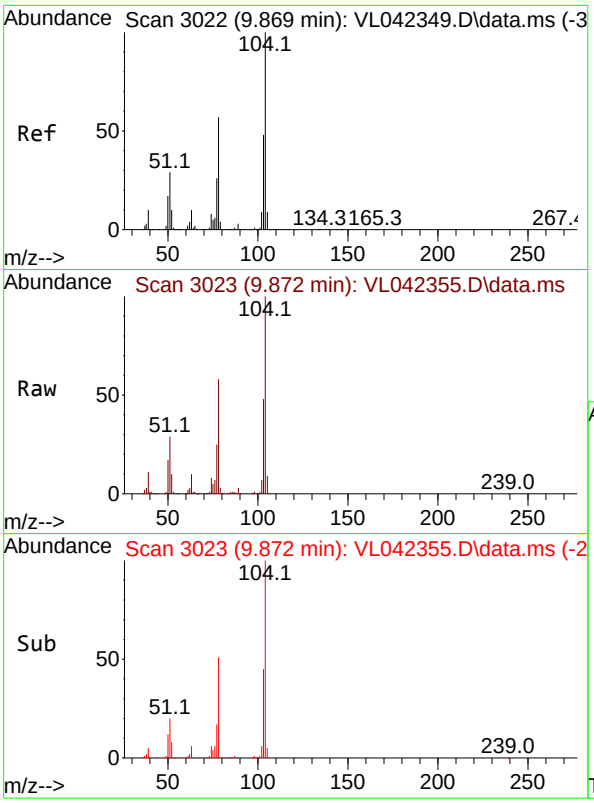


#60
o-Xylene
Concen: 13.902 ppbv
RT: 9.963 min Scan# 3051
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 91 Resp: 689246

Ion	Ratio	Lower	Upper
91	100		
106	41.9	21.1	63.4



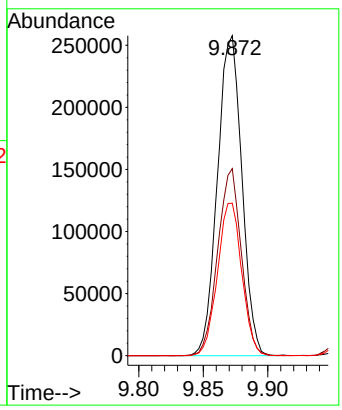


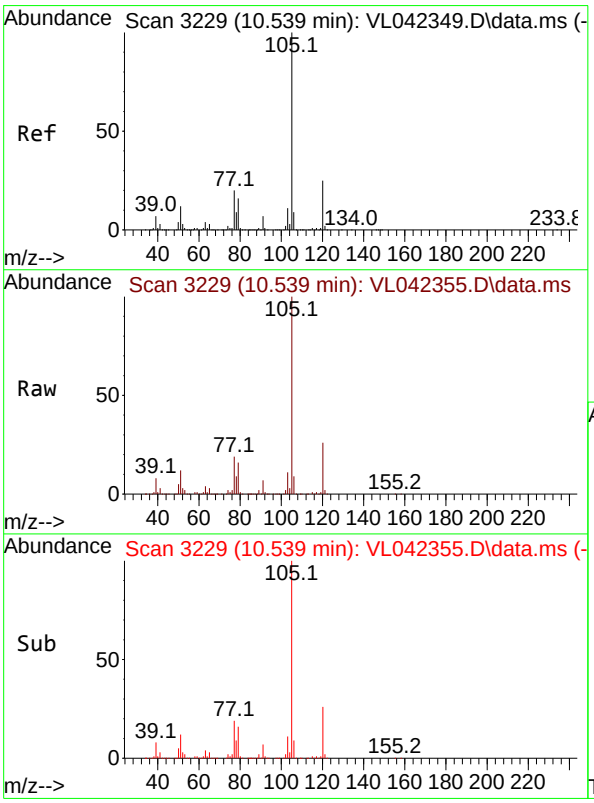
#61
Styrene
Concen: 14.347 ppbv
RT: 9.872 min Scan# 3
Delta R.T. 0.004 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

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

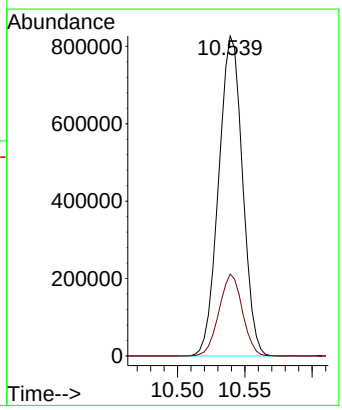


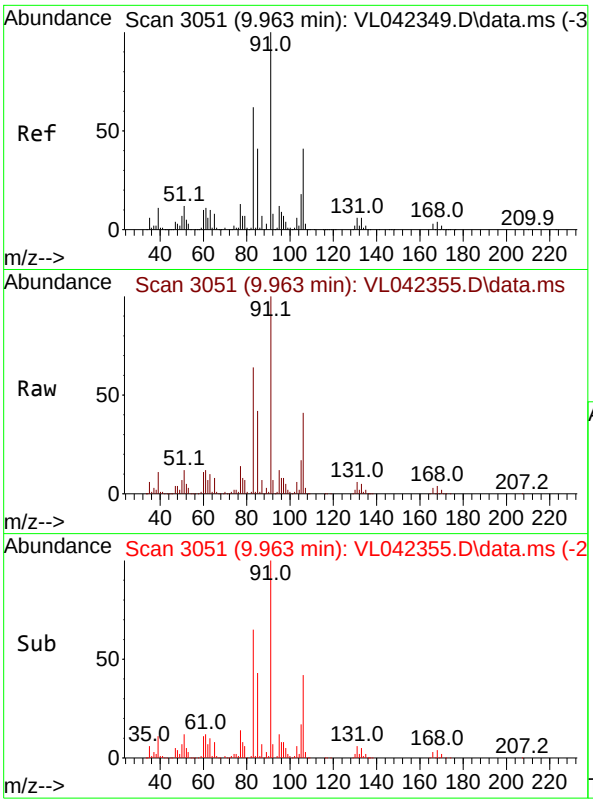


#62
Isopropylbenzene
Concen: 13.999 ppbv
RT: 10.539 min Scan# 3229
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion:105 Resp: 1018968

Ion	Ratio	Lower	Upper
105	100		
120	25.0	19.8	29.8



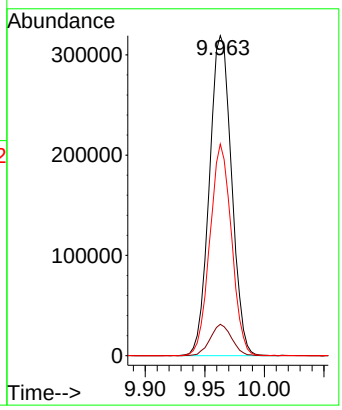


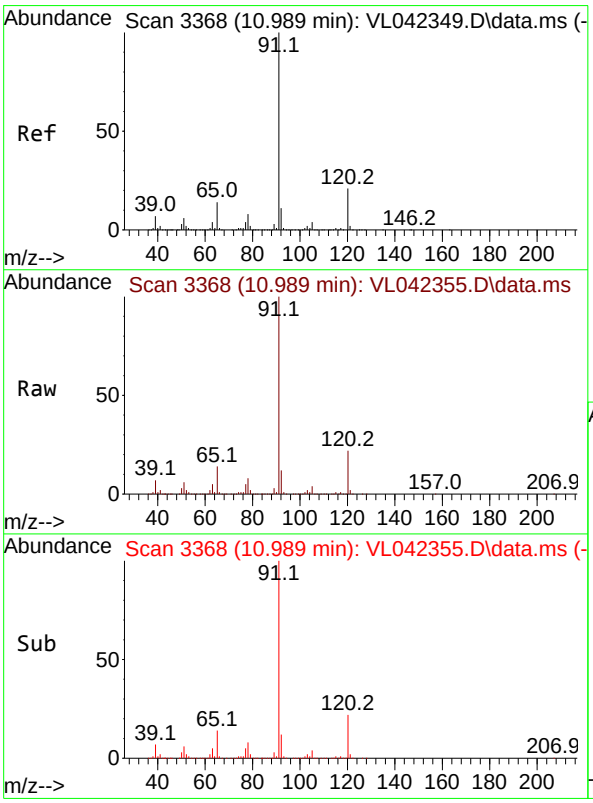
#63
1,1,2,2-Tetrachloroethane
Concen: 12.816 ppbv
RT: 9.963 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

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

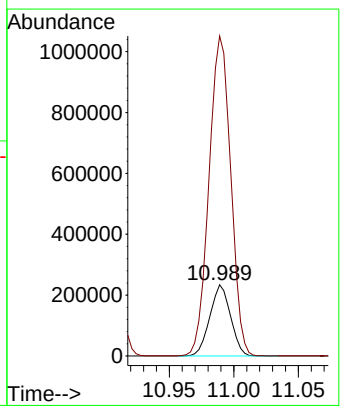


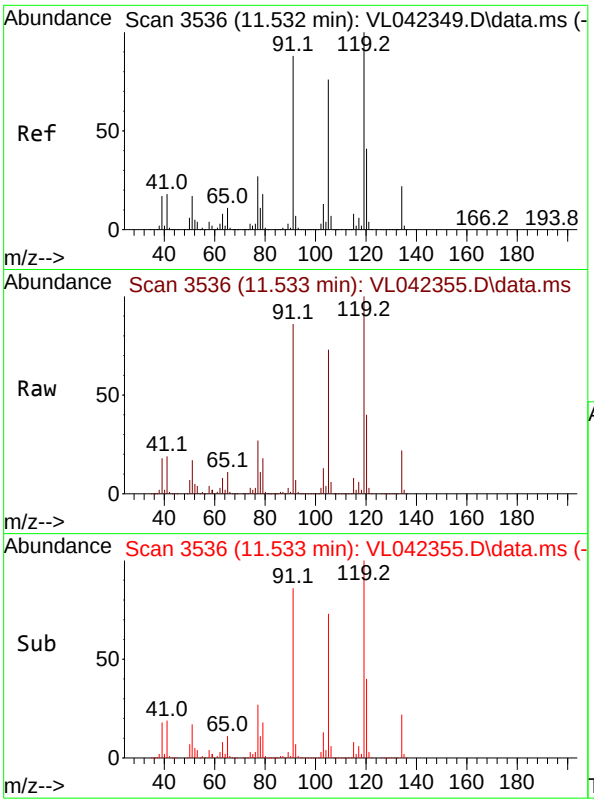


#64
n-propylbenzene
Concen: 14.255 ppbv
RT: 10.989 min Scan# 3368
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion:120 Resp: 260812

Ion	Ratio	Lower	Upper
120	100		
91	473.2	392.4	588.6



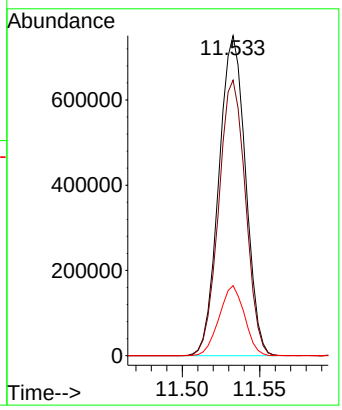


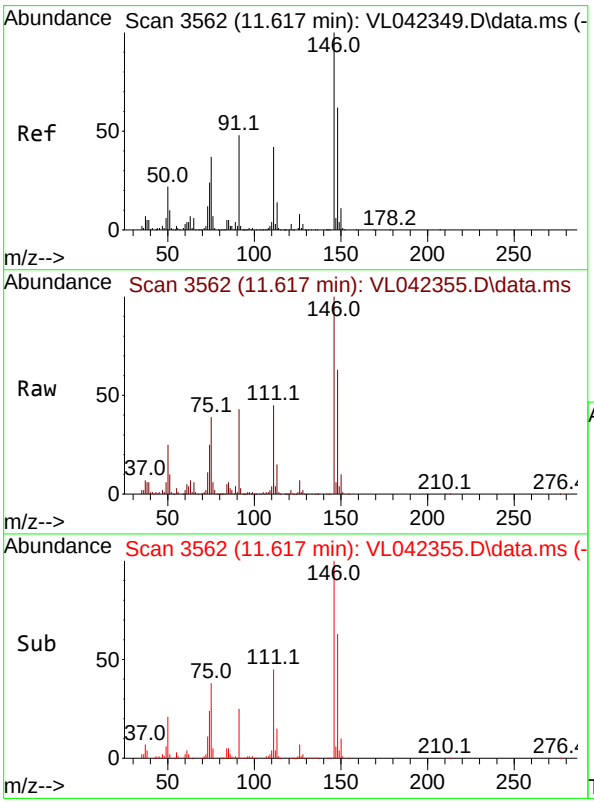
#65
tert-Butylbenzene
Concen: 13.449 ppbv
RT: 11.533 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

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

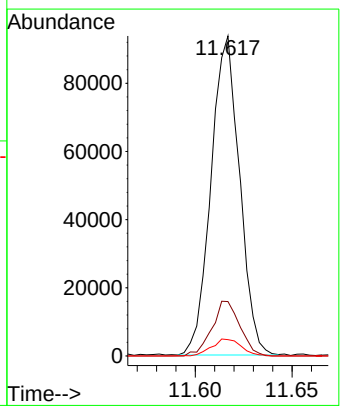


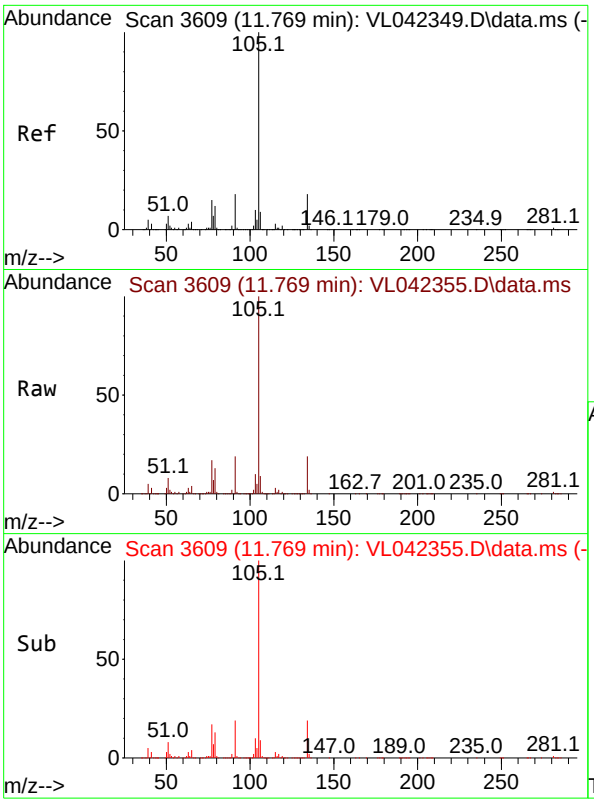


#66
Benzyl Chloride
Concen: 13.061 ppbv
RT: 11.617 min Scan# 3562
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

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



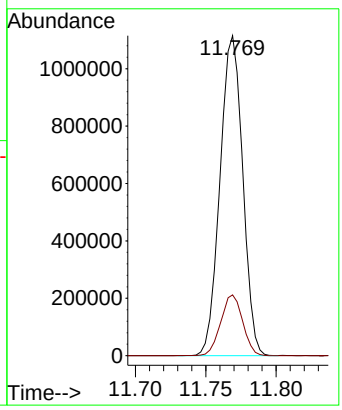


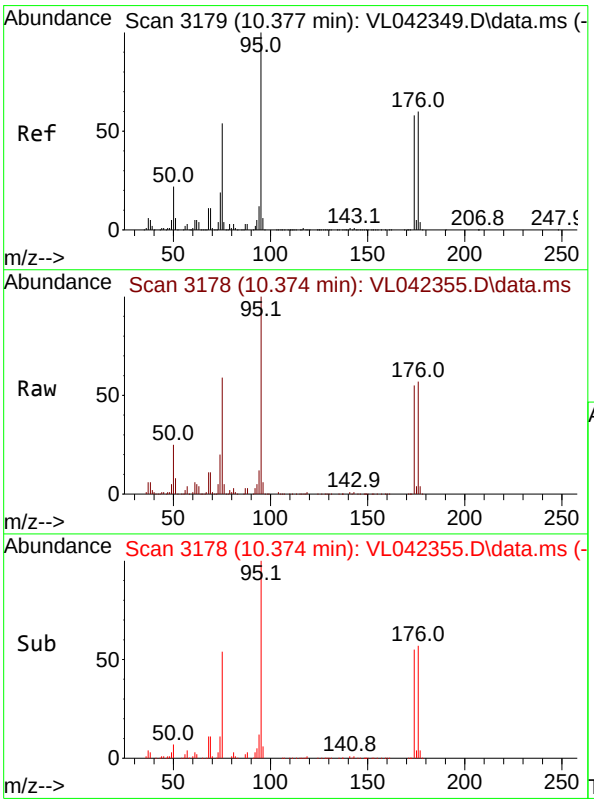
#67
sec-Butylbenzene
Concen: 13.468 ppbv
RT: 11.769 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion:105 Resp: 1253263

Ion	Ratio	Lower	Upper
105	100		
134	18.4	14.6	21.8

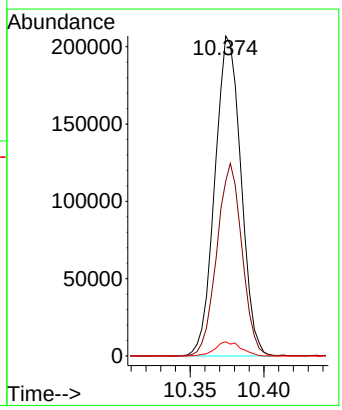


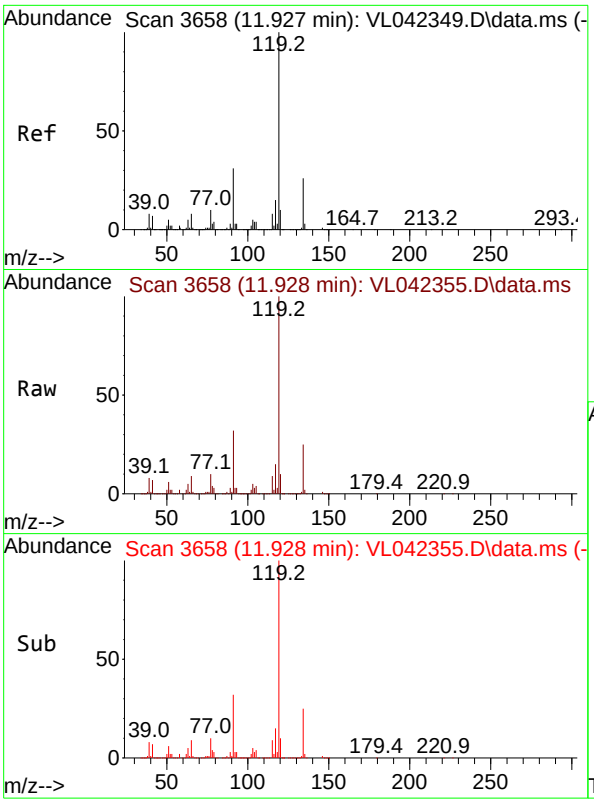


#68
1-Bromo-4-Fluorobenzene
Concen: 10.038 ppbv
RT: 10.374 min Scan# 3178
Delta R.T. -0.003 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

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



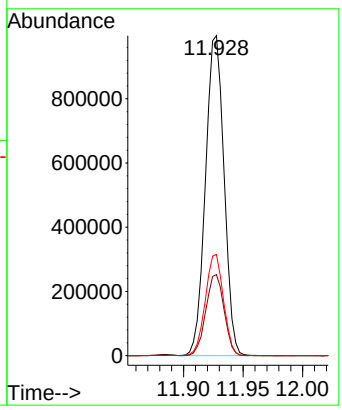


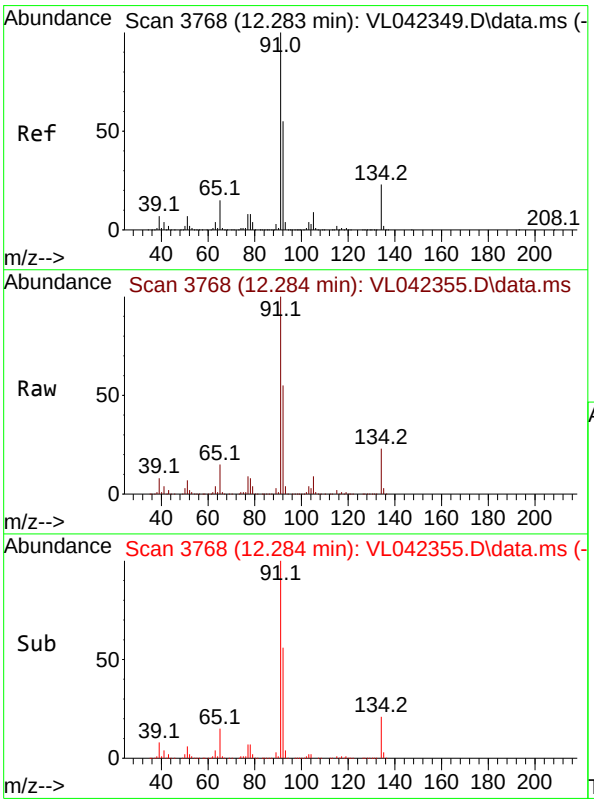
#69
p-Isopropyltoluene
Concen: 13.382 ppbv
RT: 11.928 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

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

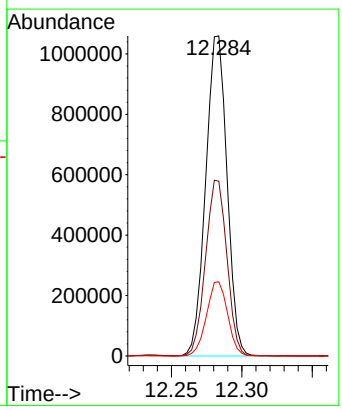


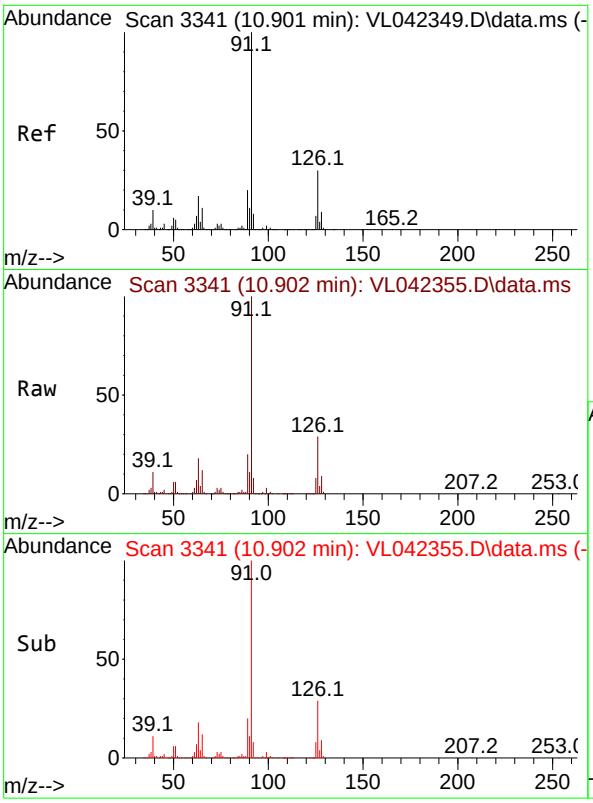


#70
n-Butylbenzene
Concen: 13.266 ppbv
RT: 12.284 min Scan# 3768
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

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



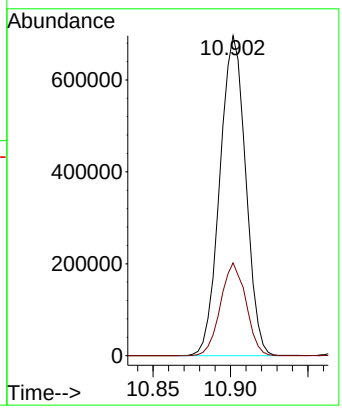


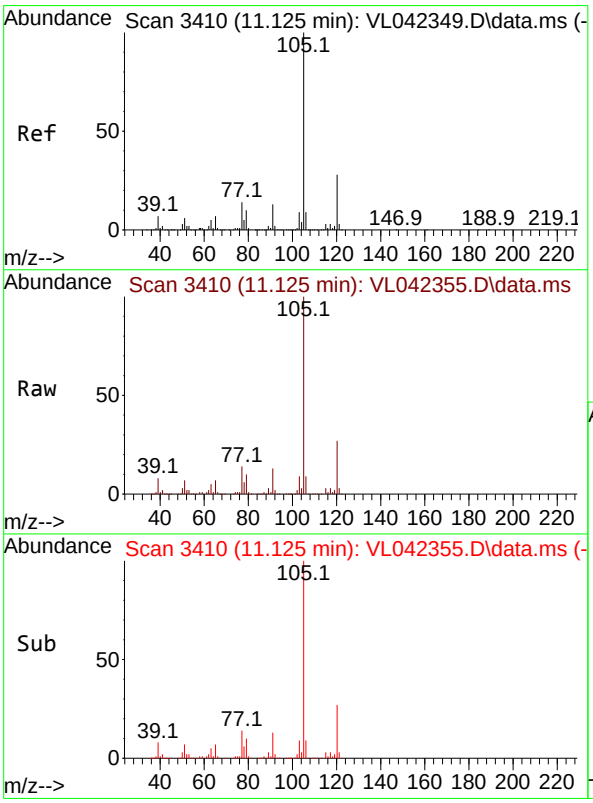
#71
2-Chlorotoluene
Concen: 14.131 ppbv
RT: 10.902 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 91 Resp: 806728

Ion	Ratio	Lower	Upper
91	100		
126	28.4	11.4	45.4

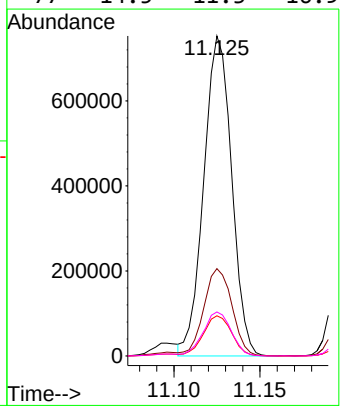


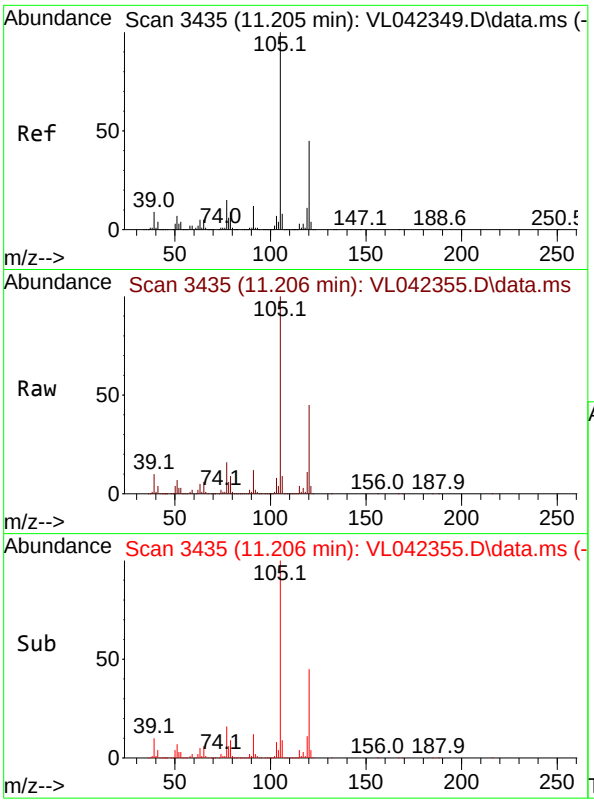


#72
4-Ethyltoluene
Concen: 13.992 ppbv
RT: 11.125 min Scan# 3410
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

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



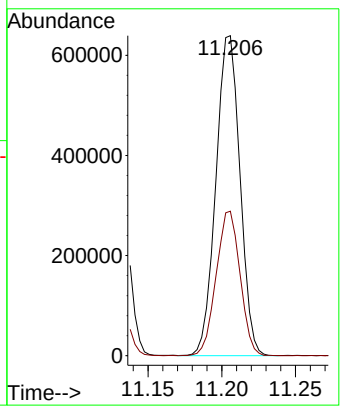


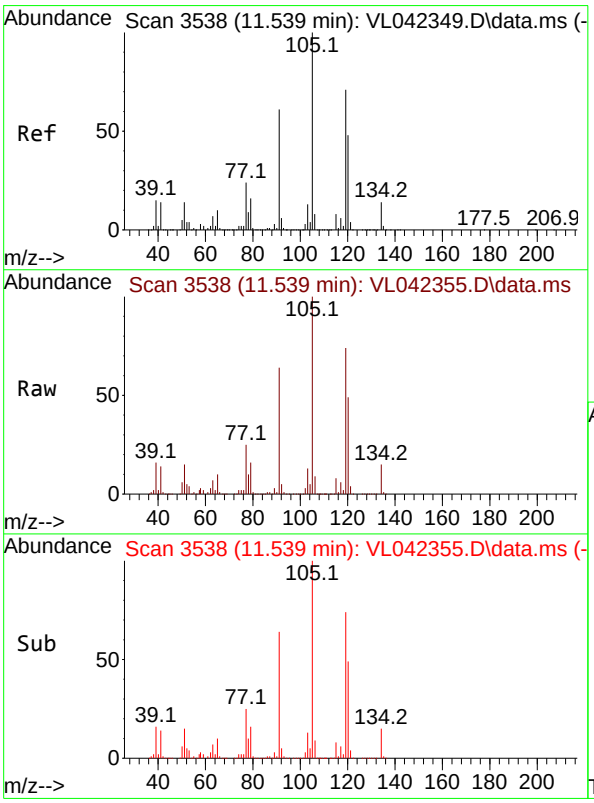
#73
1,3,5-Trimethylbenzene
Concen: 13.578 ppbv
RT: 11.206 min Scan# 34
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion:105 Resp: 726558

Ion	Ratio	Lower	Upper
105	100		
120	45.1	35.6	53.4

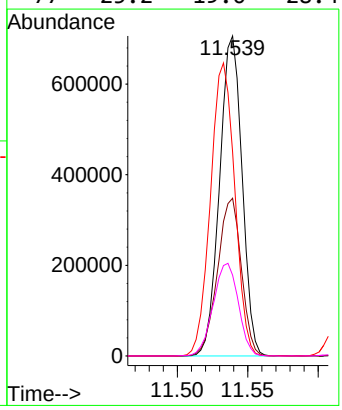


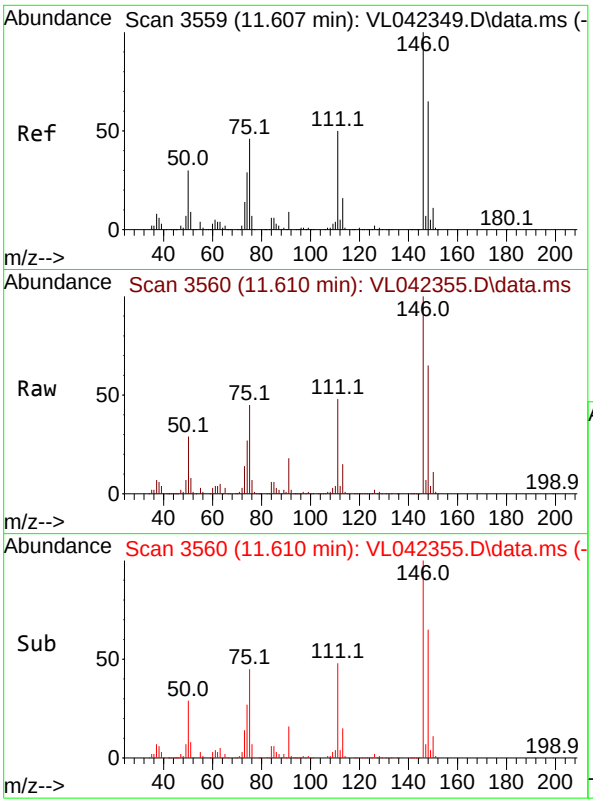


#74
1,2,4-Trimethylbenzene
Concen: 12.572 ppbv
RT: 11.539 min Scan# 3538
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

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



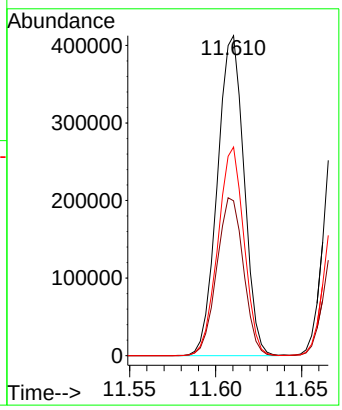


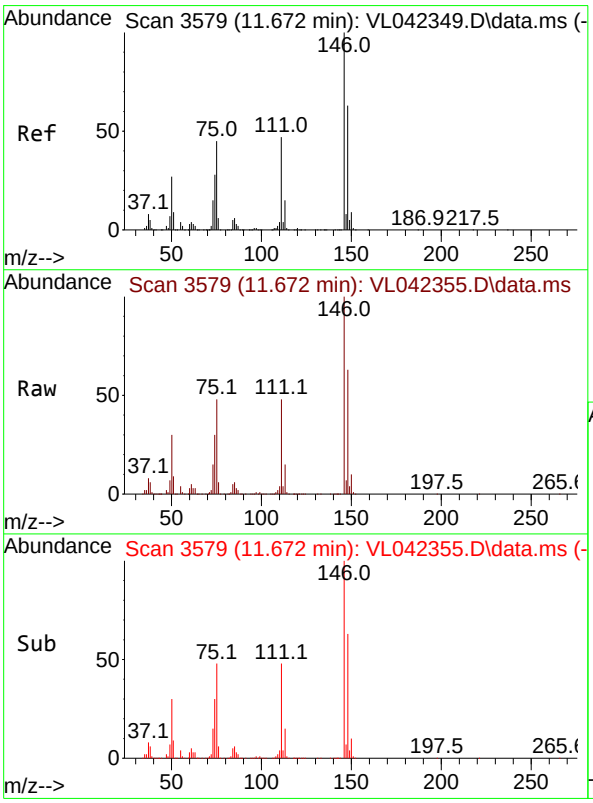
#75
1,3-Dichlorobenzene
Concen: 13.670 ppbv
RT: 11.610 min Scan# 3
Delta R.T. 0.004 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

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

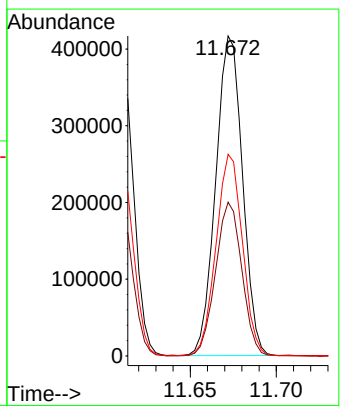


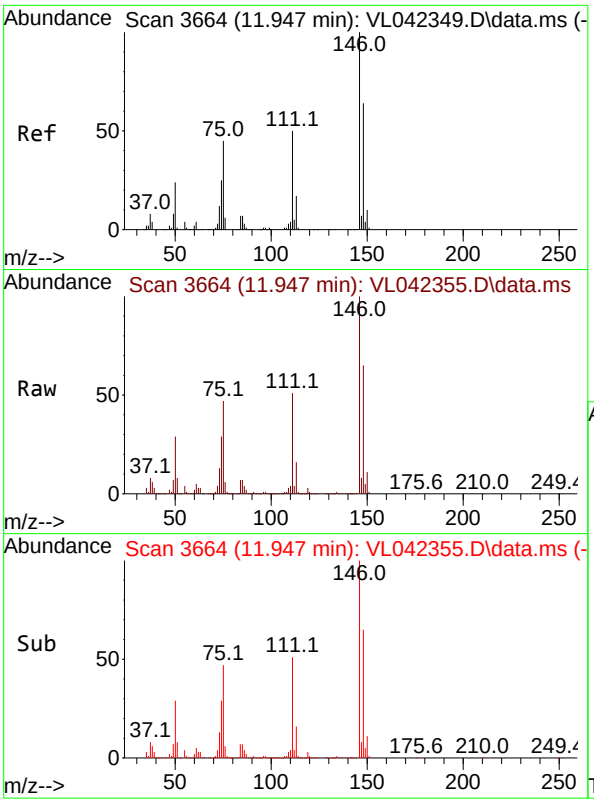


#76
1,4-Dichlorobenzene
Concen: 13.802 ppbv
RT: 11.672 min Scan# 3579
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

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



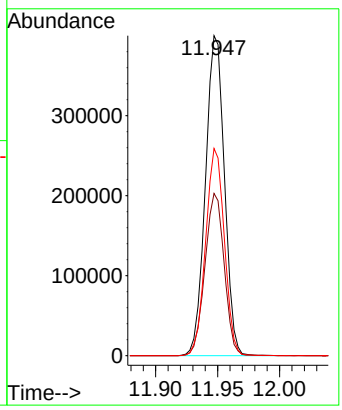


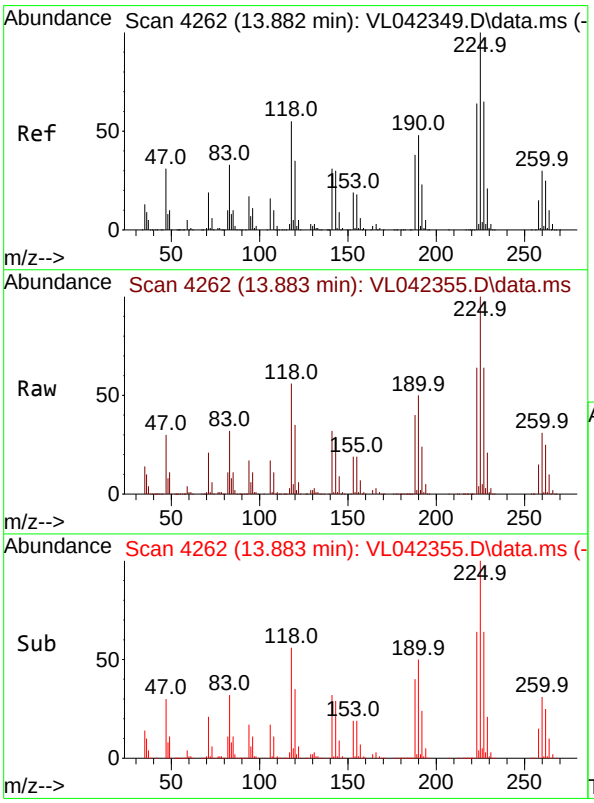
#77
1,2-Dichlorobenzene
Concen: 13.529 ppbv
RT: 11.947 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

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

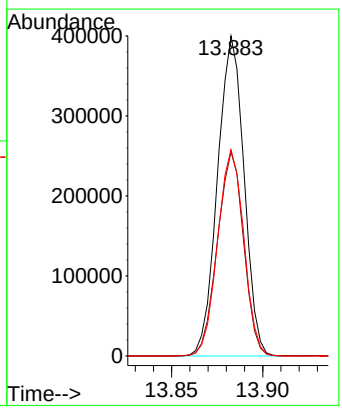


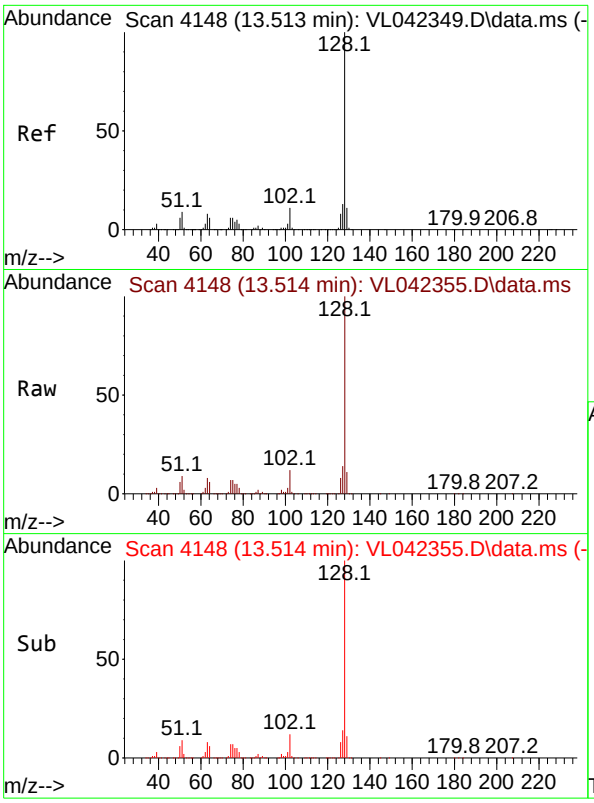


#78
Hexachloro-1,3-Butadiene
Concen: 12.679 ppbv
RT: 13.883 min Scan# 4262
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

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



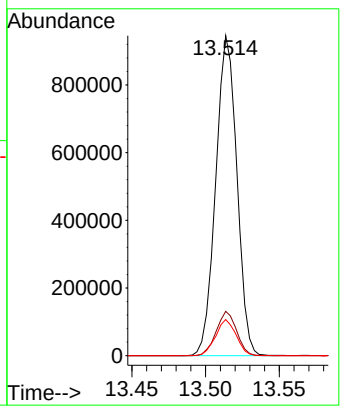


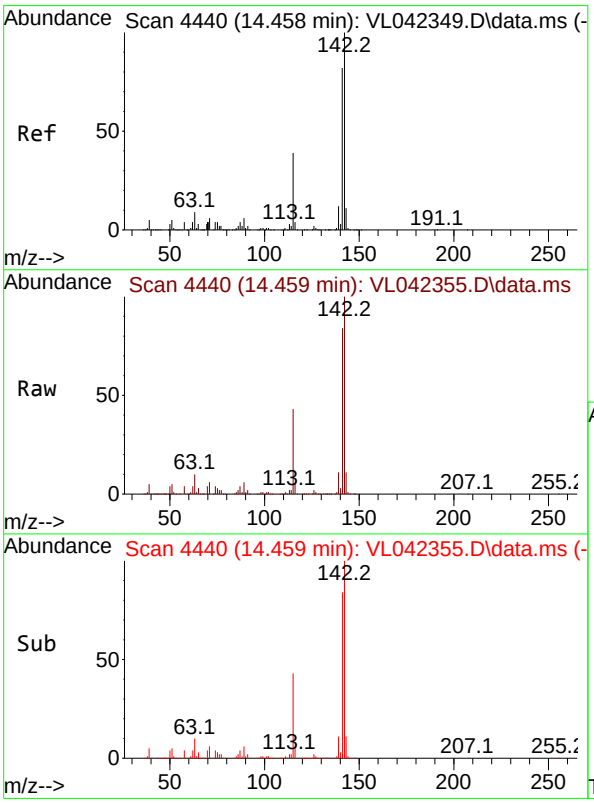
#79
Naphthalene
Concen: 12.632 ppbv
RT: 13.514 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

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

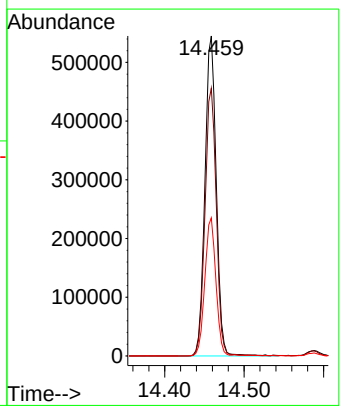


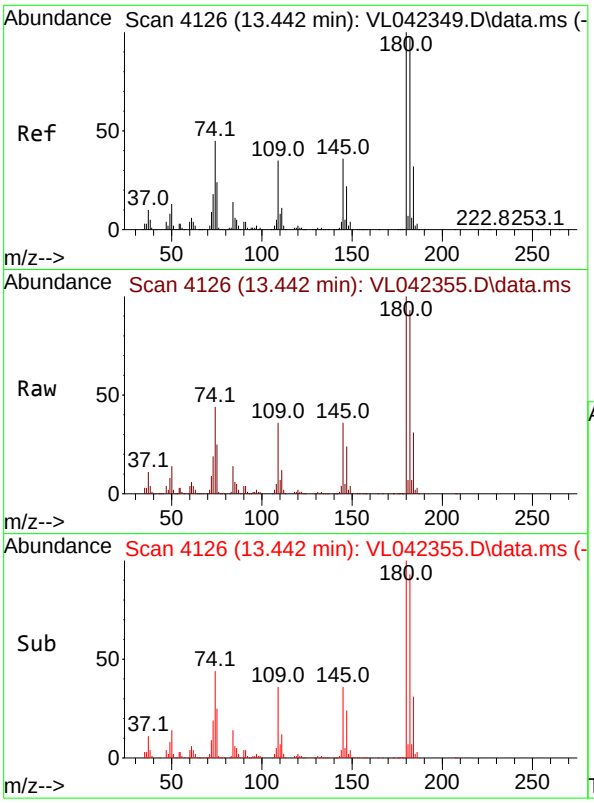


#80
Naphthalene,2-methyl-
Concen: 12.686 ppbv
RT: 14.459 min Scan# 4440
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

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



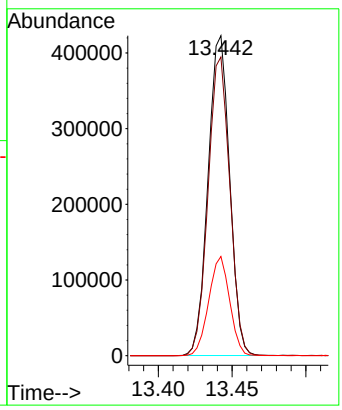


#81
1,2,4-Trichlorobenzene
Concen: 13.398 ppbv
RT: 13.442 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

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

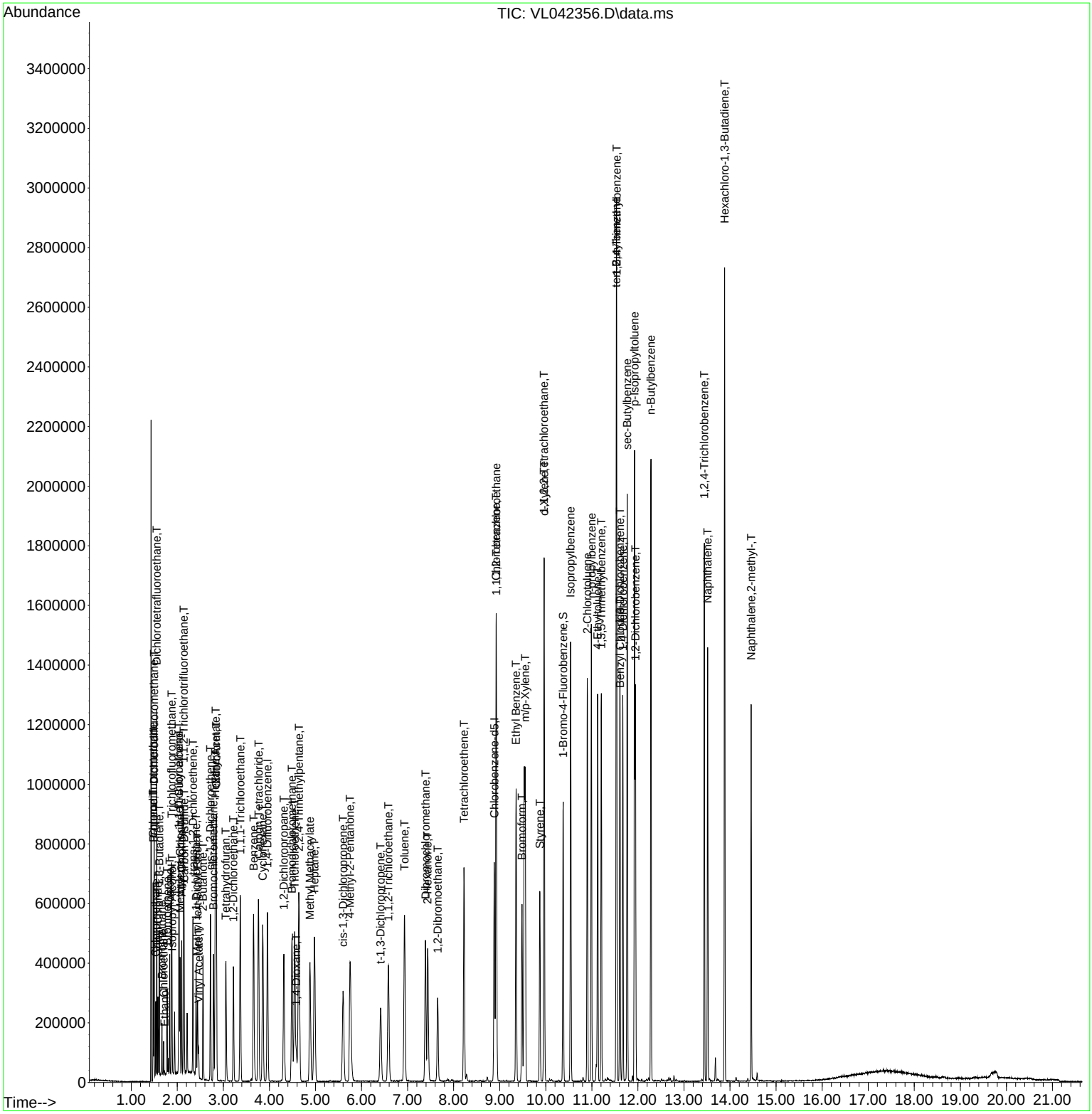
(#) = qualifier out of range (m) = manual integration (+) = signals summed

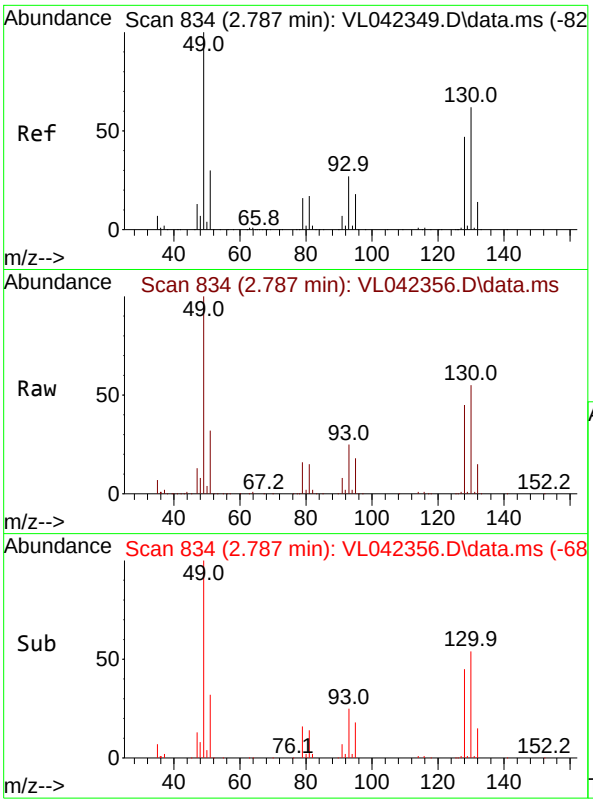
Quantitation Report (Not Reviewed)

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



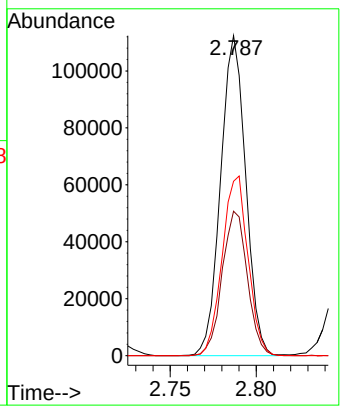


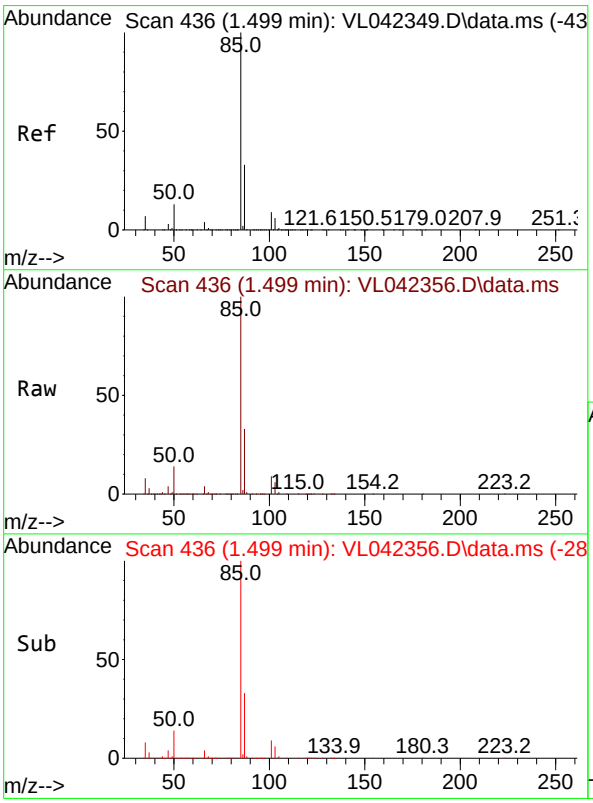
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

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

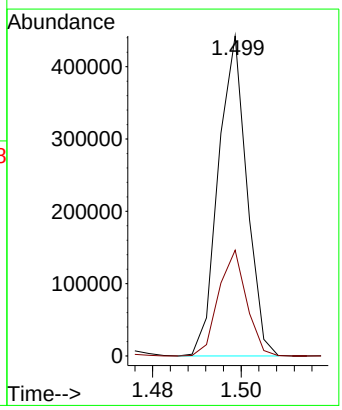


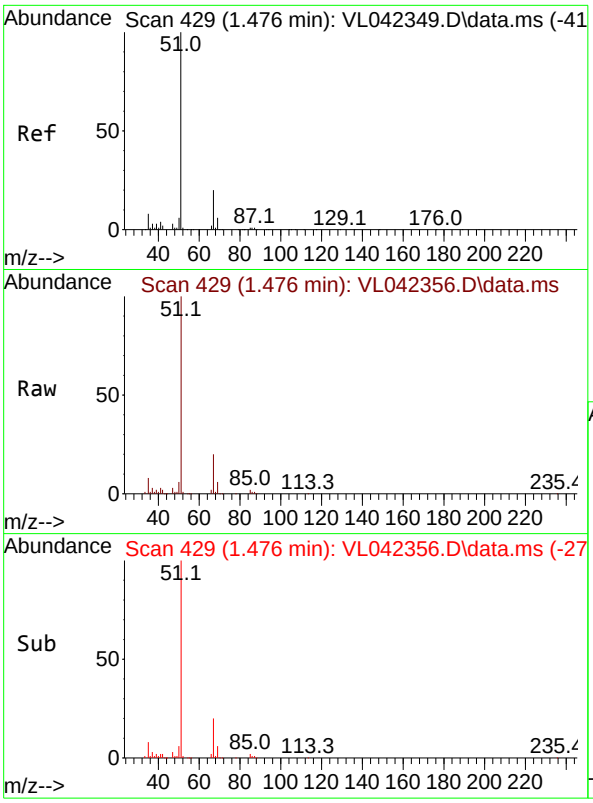


#2
Dichlorodifluoromethane
Concen: 9.812 ppbv
RT: 1.499 min Scan# 436
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 85 Resp: 197623

Ion	Ratio	Lower	Upper
85	100		
87	33.1	26.6	39.8



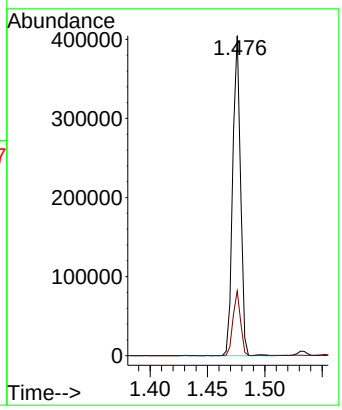


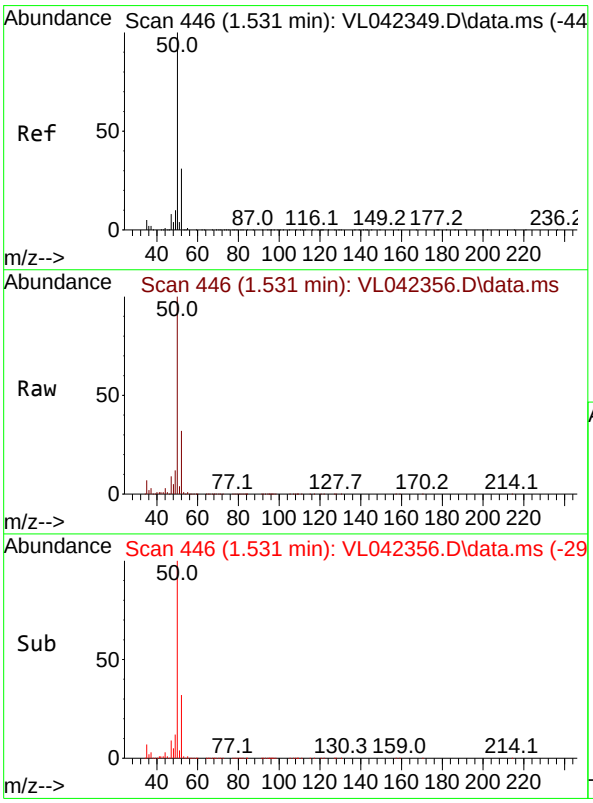
#3
Chlorodifluoromethane
Concen: 9.960 ppbv
RT: 1.476 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

Tgt Ion: 51 Resp: 191010

Ion	Ratio	Lower	Upper
51	100		
67	19.6	16.2	24.4

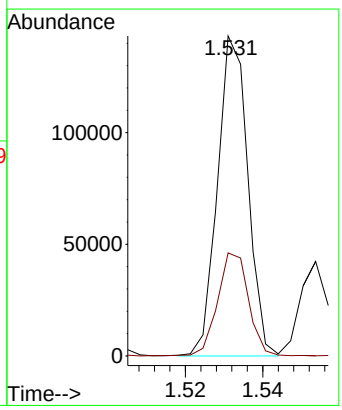


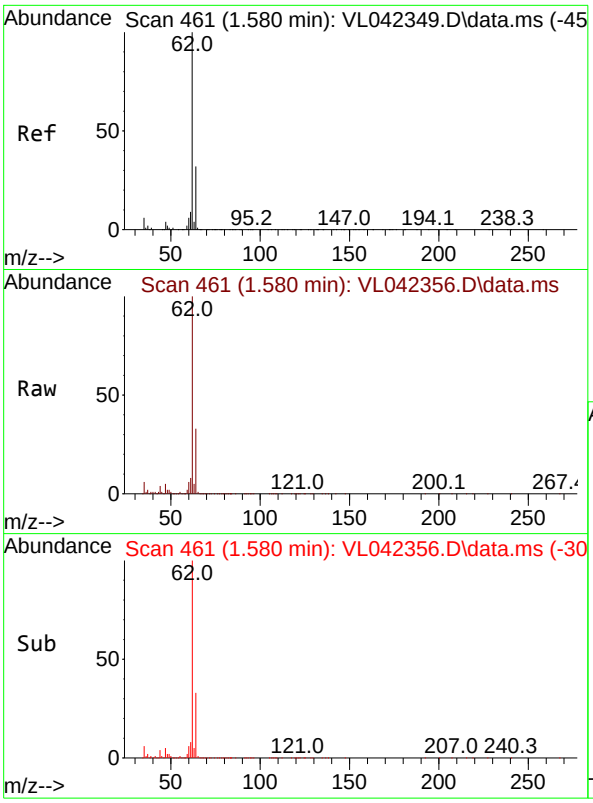


#4
Chloromethane
Concen: 9.796 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 50 Resp: 78080

Ion	Ratio	Lower	Upper
50	100		
52	32.0	24.7	37.1



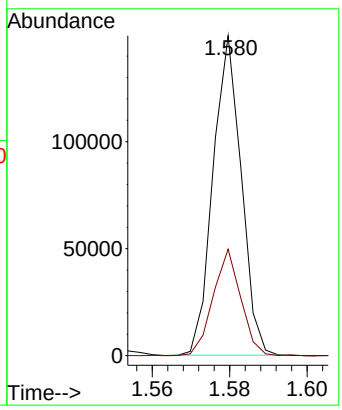


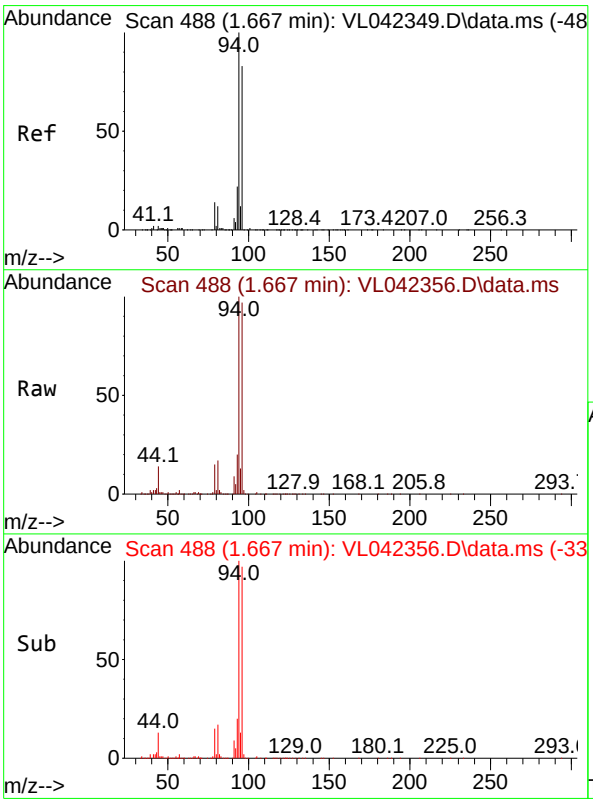
#5
Vinyl Chloride
Concen: 8.717 ppbv
RT: 1.580 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

Tgt Ion: 62 Resp: 75628

Ion	Ratio	Lower	Upper
62	100		
64	33.3	25.4	38.0

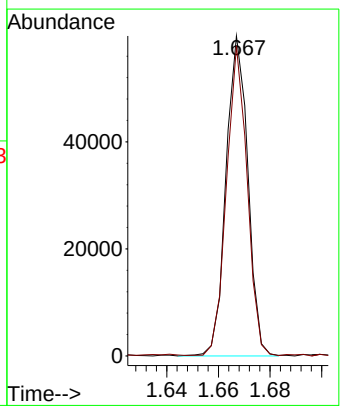


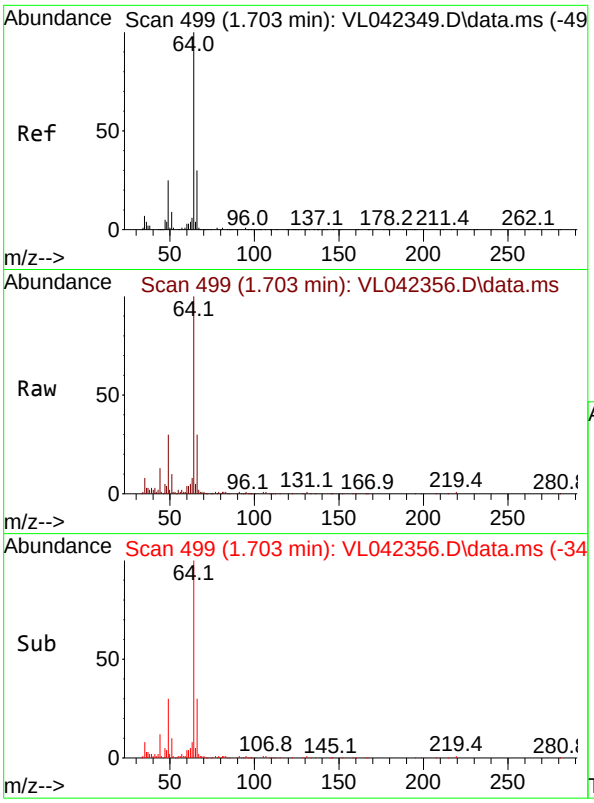


#6
Bromomethane
Concen: 9.422 ppbv
RT: 1.667 min Scan# 488
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 94 Resp: 35115

Ion	Ratio	Lower	Upper
94	100		
96	96.8	66.2	99.2



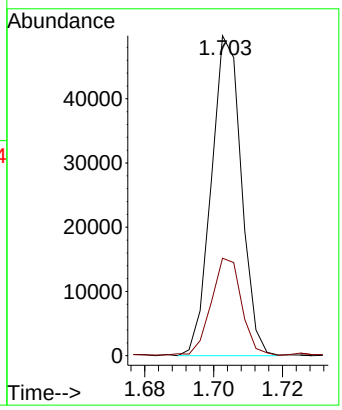


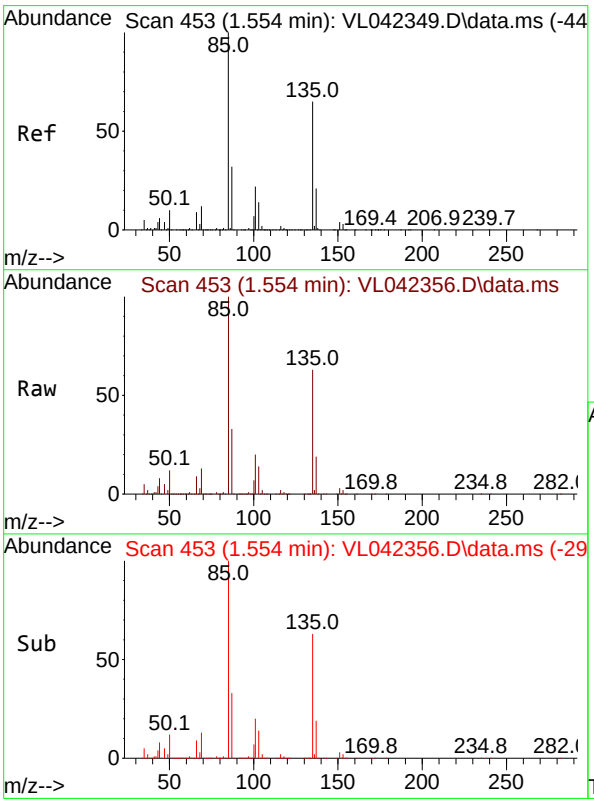
#7
Chloroethane
Concen: 9.612 ppbv
RT: 1.703 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

Tgt Ion: 64 Resp: 30158

Ion	Ratio	Lower	Upper
64	100		
66	30.4	24.6	37.0

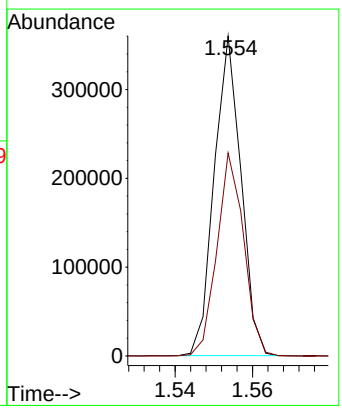


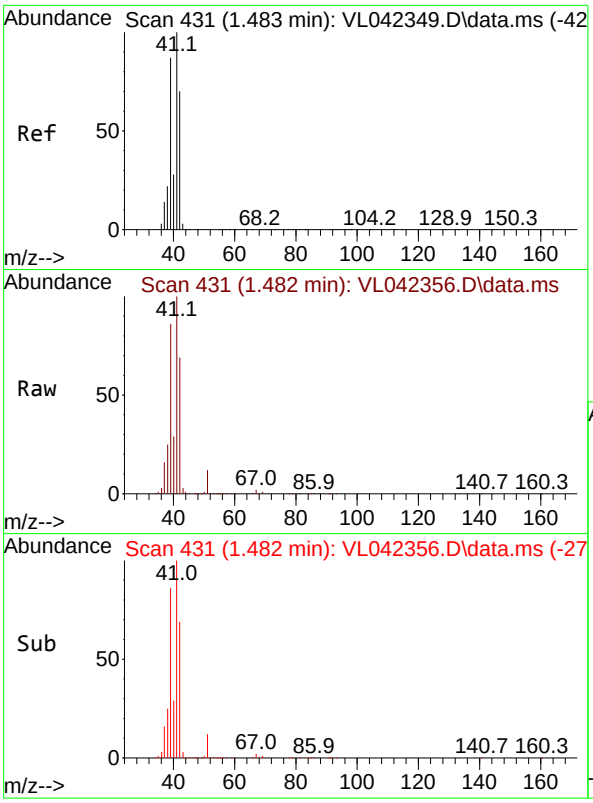


#8
Dichlorotetrafluoroethane
Concen: 9.997 ppbv
RT: 1.554 min Scan# 453
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 85 Resp: 172863

Ion	Ratio	Lower	Upper
85	100		
135	63.5	52.2	78.2



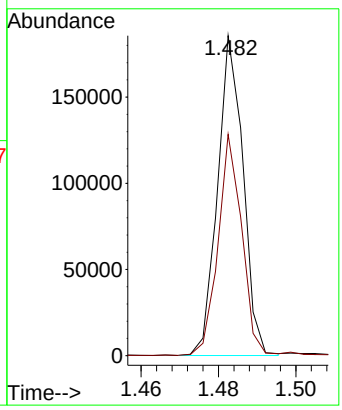


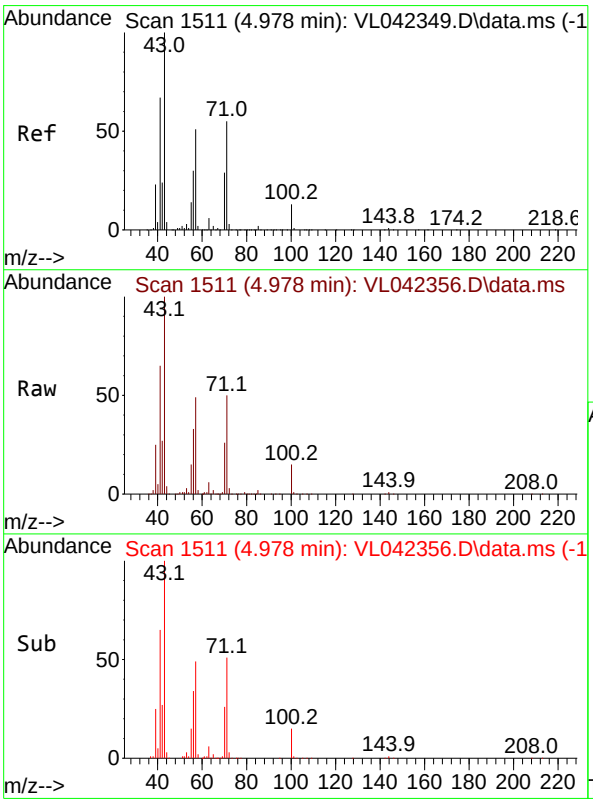
#9
Propene
Concen: 9.690 ppbv
RT: 1.482 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

Tgt Ion: 41 Resp: 84636

Ion	Ratio	Lower	Upper
41	100		
42	65.8	56.2	84.4

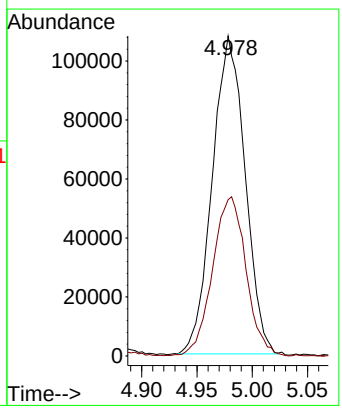


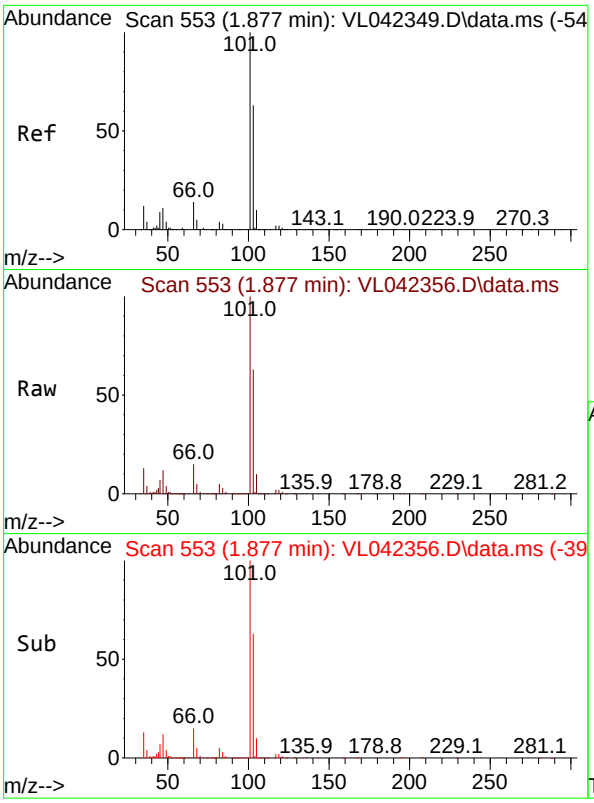


#10
Heptane
Concen: 9.041 ppbv
RT: 4.978 min Scan# 1511
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 43 Resp: 221840

Ion	Ratio	Lower	Upper
43	100		
57	51.4	39.9	59.9



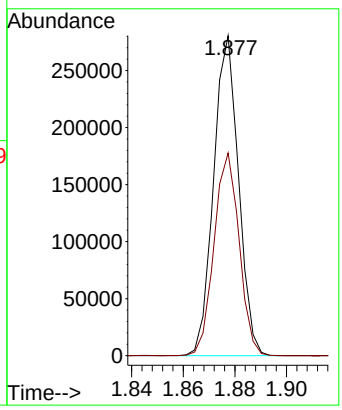


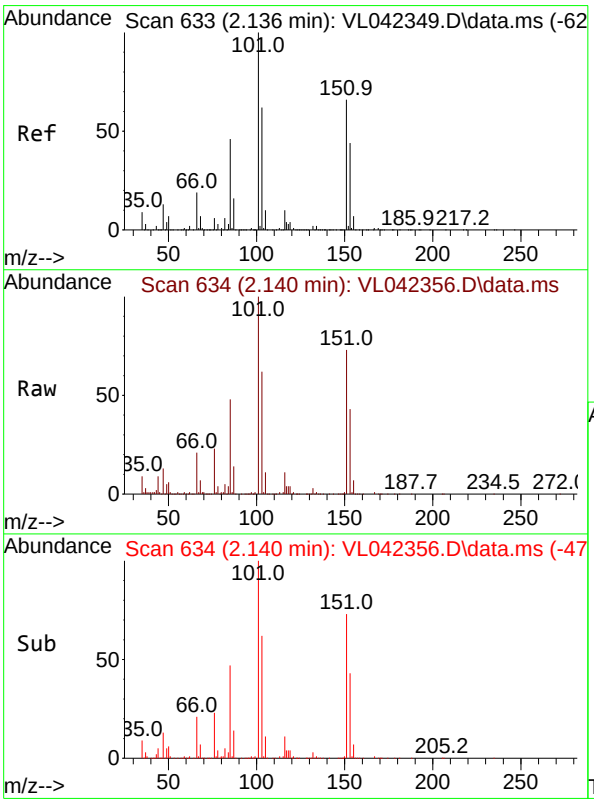
#11
Trichlorofluoromethane
Concen: 9.807 ppbv
RT: 1.877 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

Tgt Ion:101 Resp: 187827

Ion	Ratio	Lower	Upper
101	100		
103	63.3	50.1	75.1

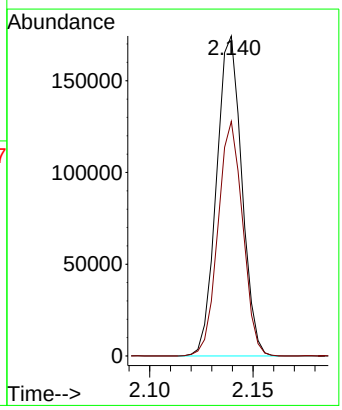


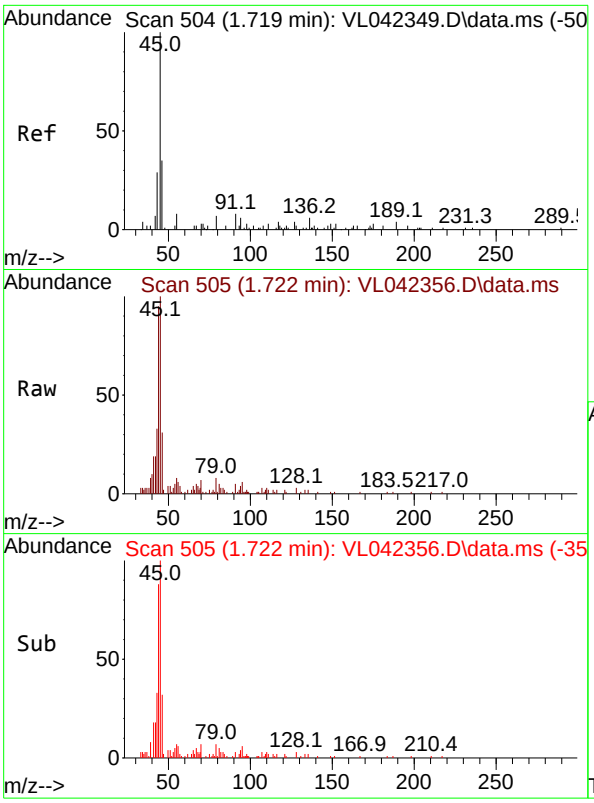


#12
1,1,2-Trichlorotrifluoroethane
Concen: 9.482 ppbv
RT: 2.140 min Scan# 634
Delta R.T. 0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion:101 Resp: 148485

Ion	Ratio	Lower	Upper
101	100		
151	71.7	57.0	85.6



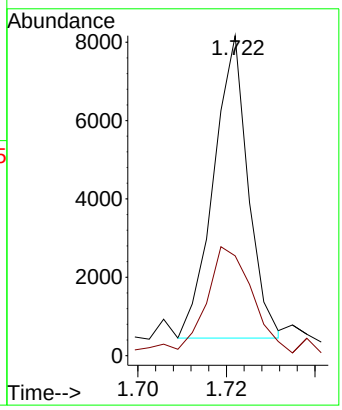


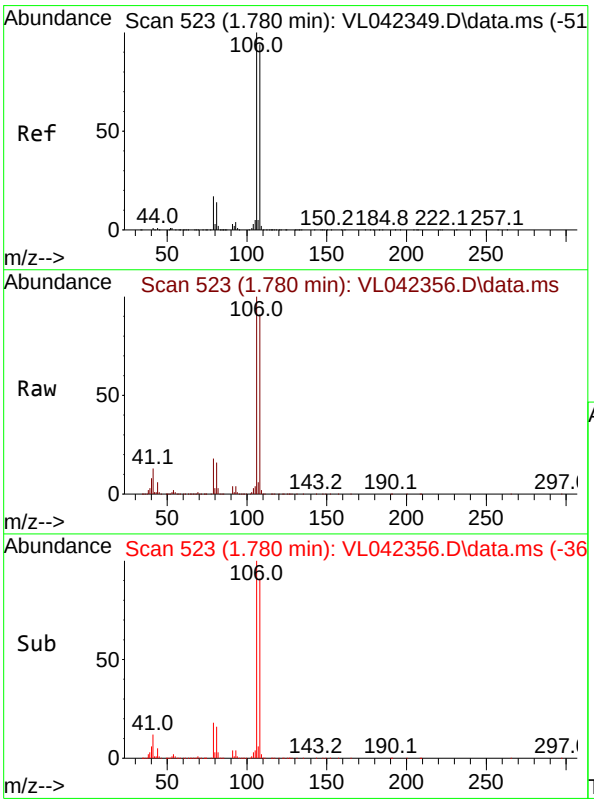
#13
Ethanol
Concen: 3.005 ppbv
RT: 1.722 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

Tgt Ion: 45 Resp: 4171

Ion	Ratio	Lower	Upper
45	100		
46	57.0	21.9	87.7

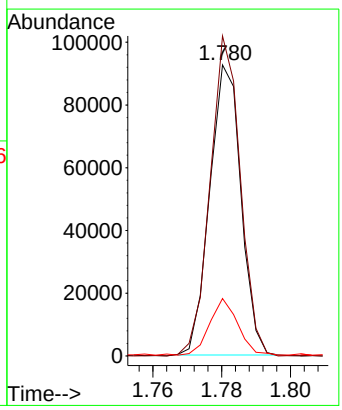


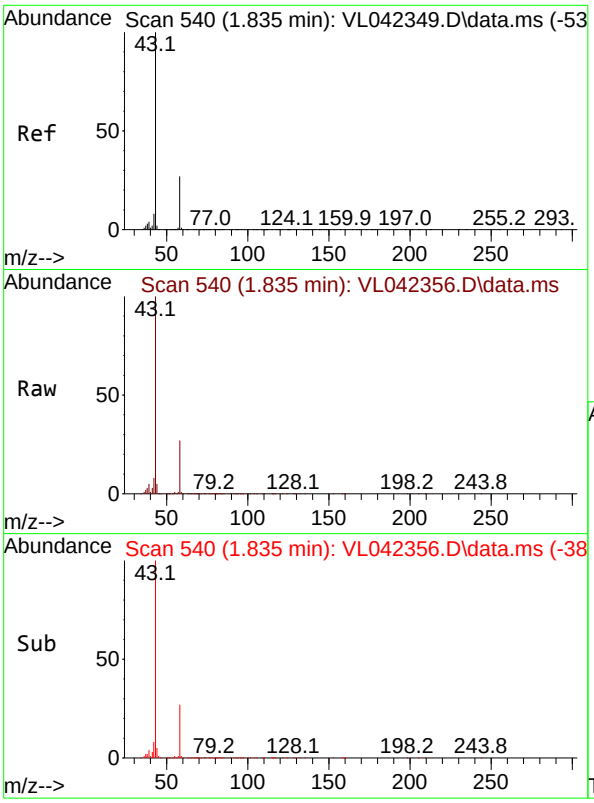


#14
Bromoethene
Concen: 9.880 ppbv
RT: 1.780 min Scan# 523
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

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



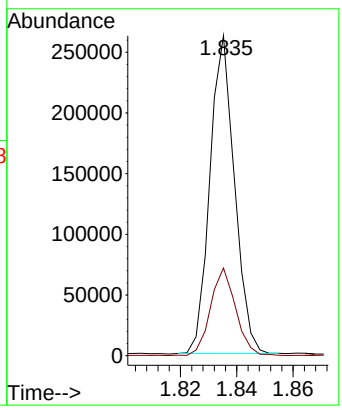


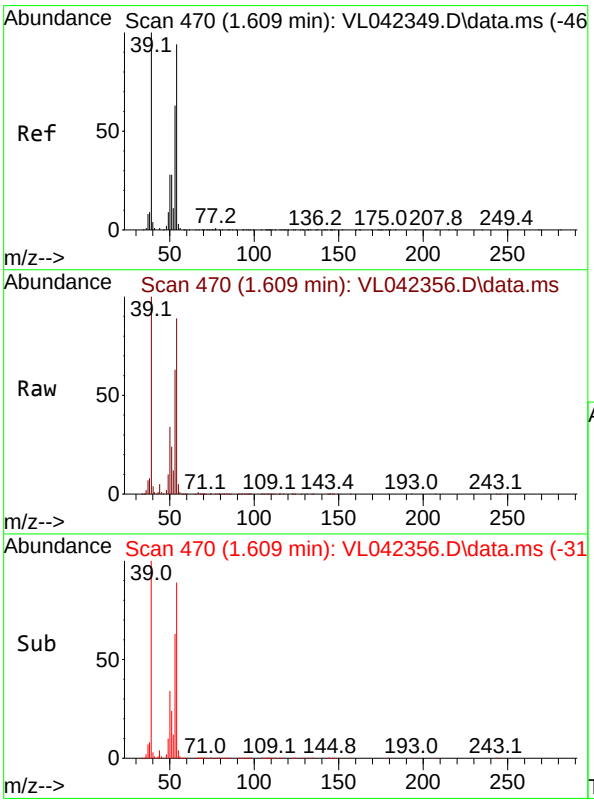
#15
Acetone
Concen: 8.505 ppbv
RT: 1.835 min Scan# 54
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

Tgt Ion: 43 Resp: 158708

Ion	Ratio	Lower	Upper
43	100		
58	28.0	22.4	33.6

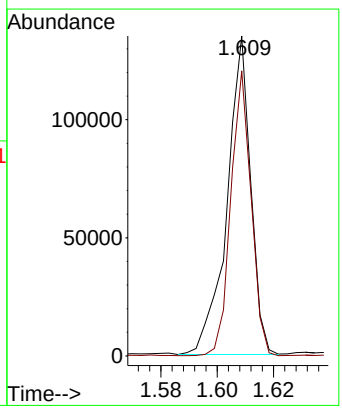


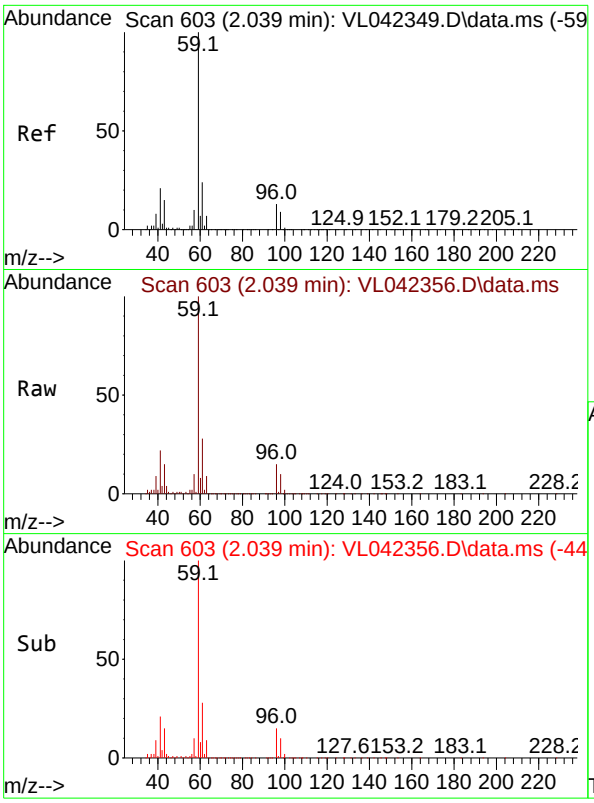


#16
1,3-Butadiene
Concen: 8.829 ppbv
RT: 1.609 min Scan# 470
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 39 Resp: 78804

Ion	Ratio	Lower	Upper
39	100		
54	77.1	64.9	97.3



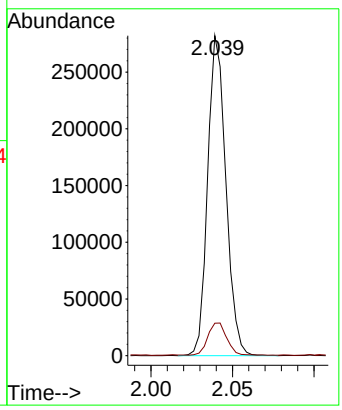


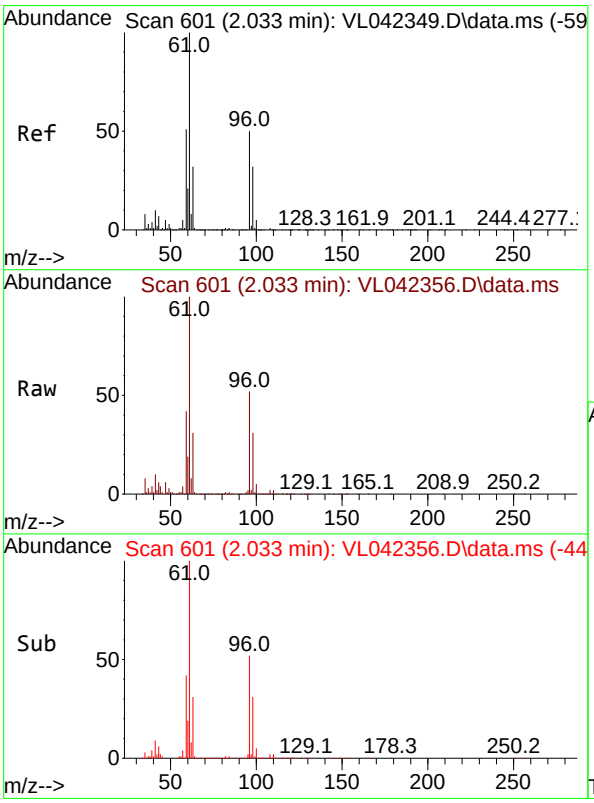
#17
tert-Butyl alcohol
Concen: 9.468 ppbv
RT: 2.039 min Scan# 6
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

Tgt Ion: 59 Resp: 218954

Ion	Ratio	Lower	Upper
59	100		
57	10.6	8.7	13.1

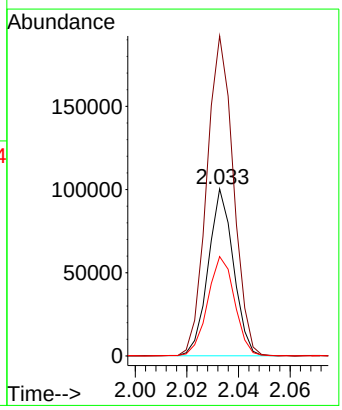


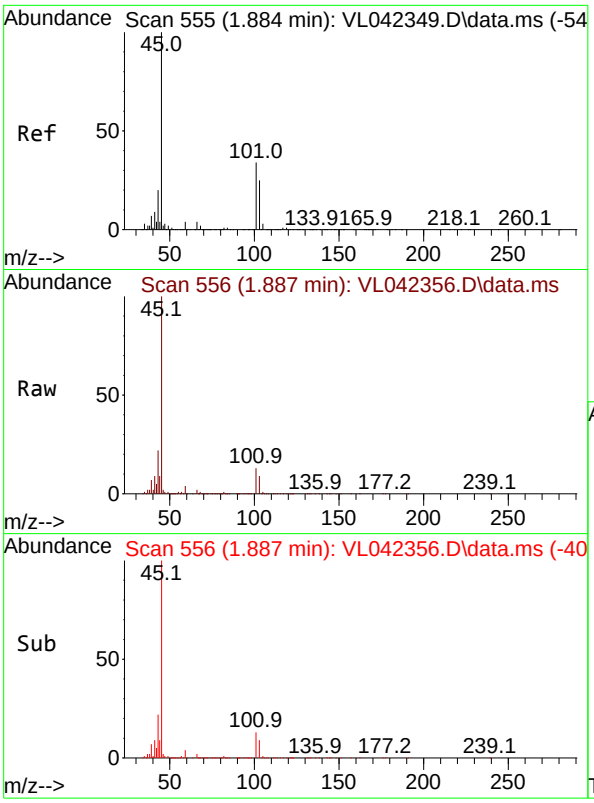


#18
1,1-Dichloroethene
Concen: 9.287 ppbv
RT: 2.033 min Scan# 601
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

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



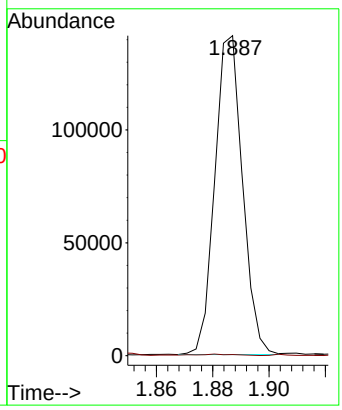


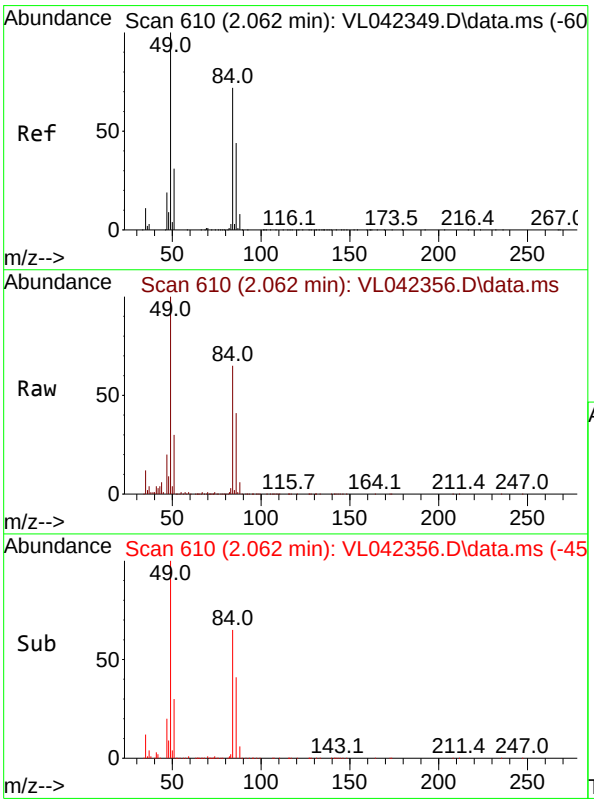
#19
Isopropyl Alcohol
Concen: 9.296 ppbv
RT: 1.887 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

Tgt Ion: 45 Resp: 96365

Ion	Ratio	Lower	Upper
45	100		
58	46.1	34.5	51.7

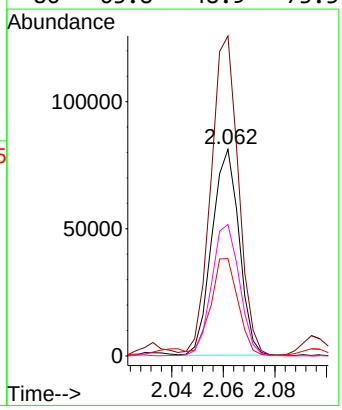


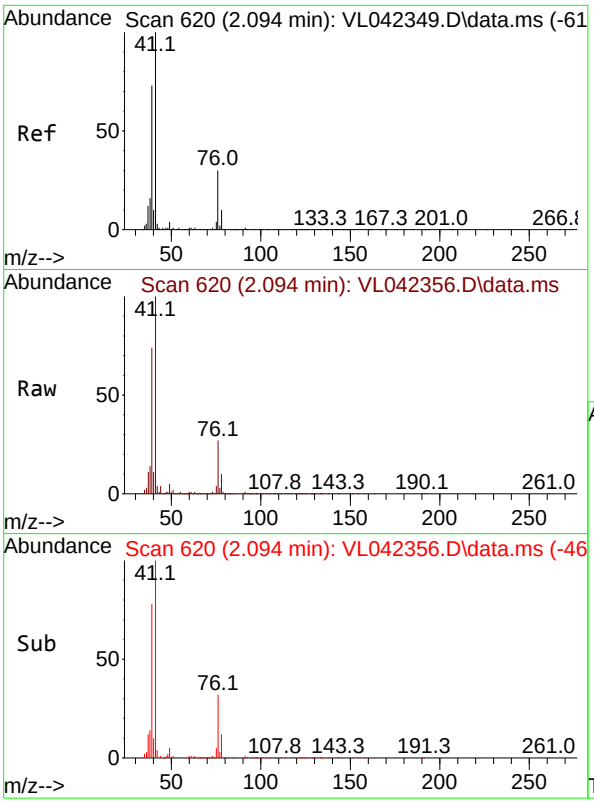


#20
Methylene Chloride
Concen: 8.101 ppbv
RT: 2.062 min Scan# 610
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

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



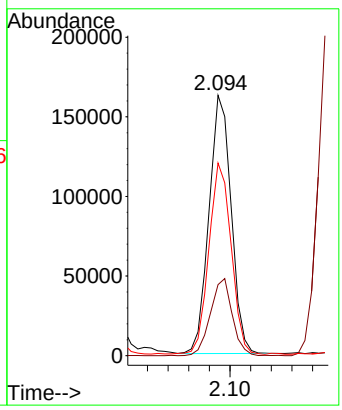


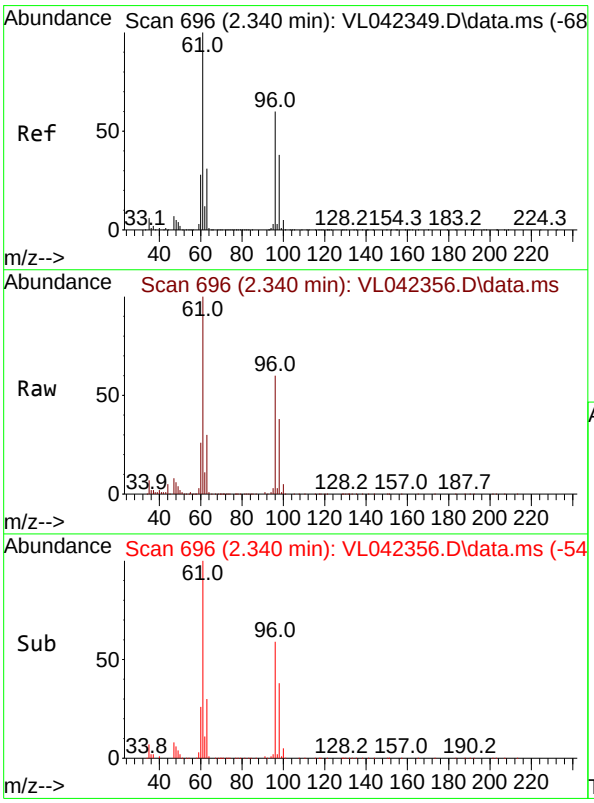
#21
Allyl Chloride
Concen: 9.368 ppbv
RT: 2.094 min Scan# 6
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

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

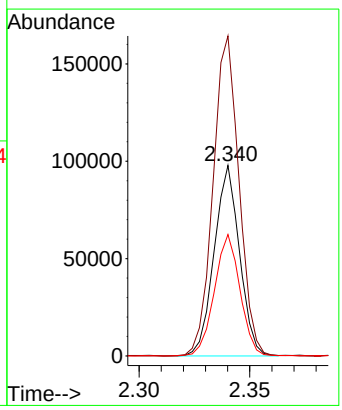


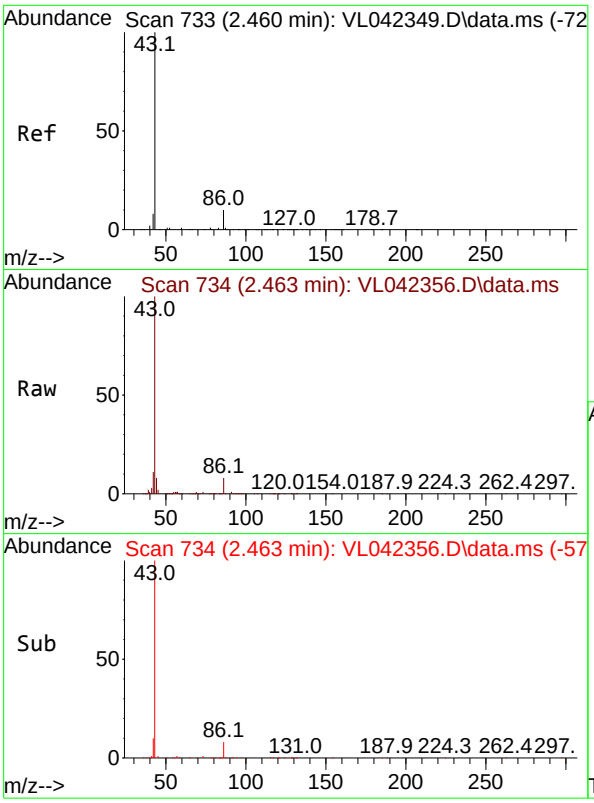


#22
trans-1,2-Dichloroethene
Concen: 9.373 ppbv
RT: 2.340 min Scan# 696
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

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



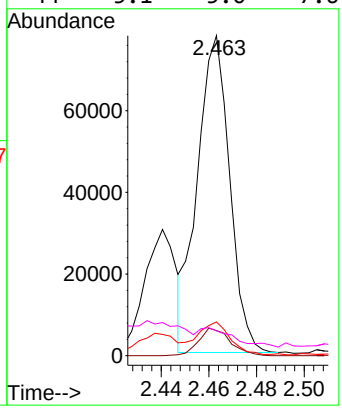


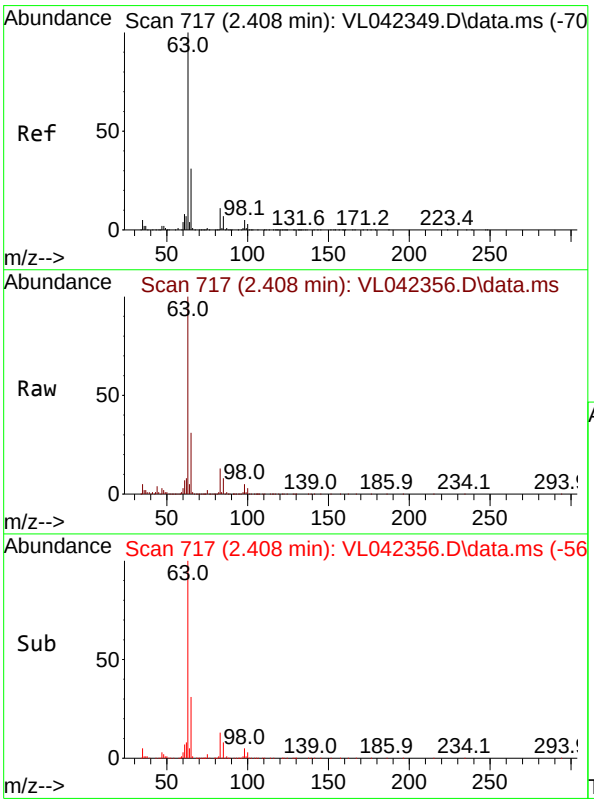
#23
Vinyl Acetate
Concen: 9.714 ppbv
RT: 2.463 min Scan# 7
Delta R.T. 0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

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

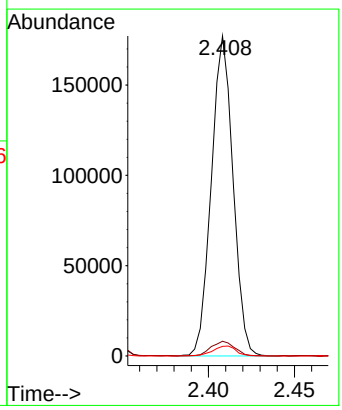


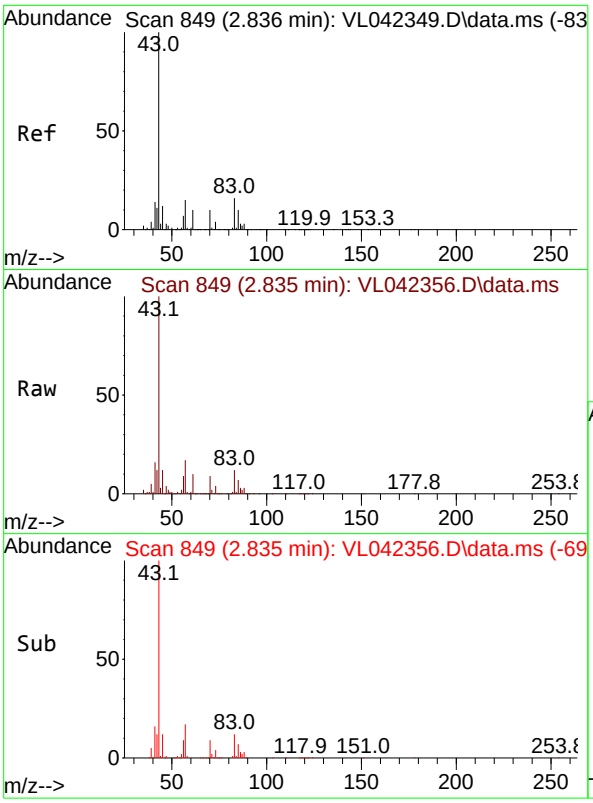


#24
1,1-Dichloroethane
Concen: 9.832 ppbv
RT: 2.408 min Scan# 717
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

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



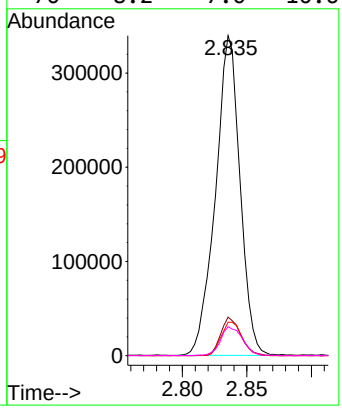


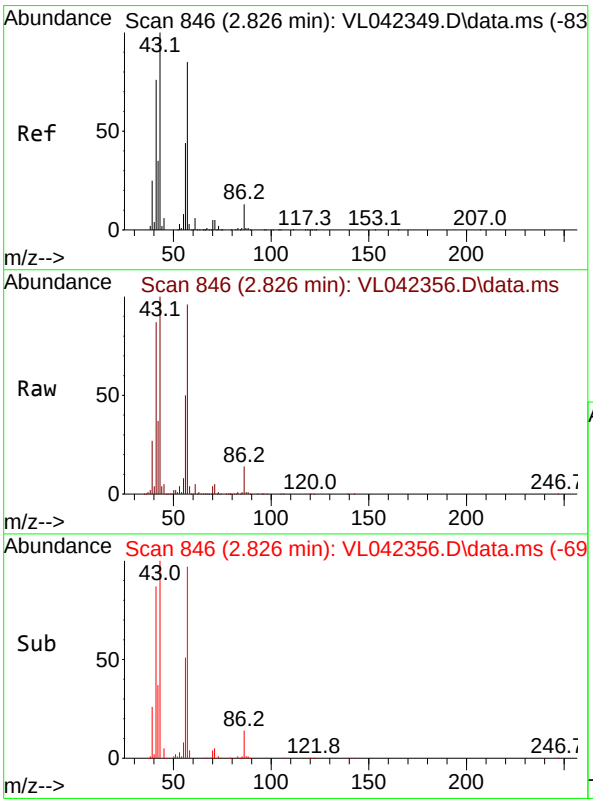
#25
Ethyl Acetate
Concen: 9.759 ppbv
RT: 2.835 min Scan# 84
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

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

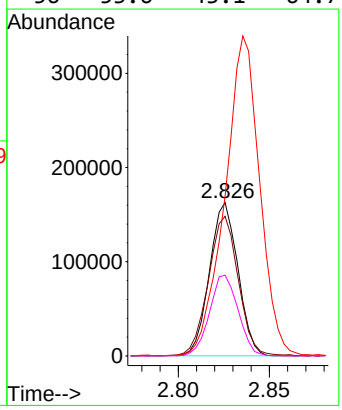


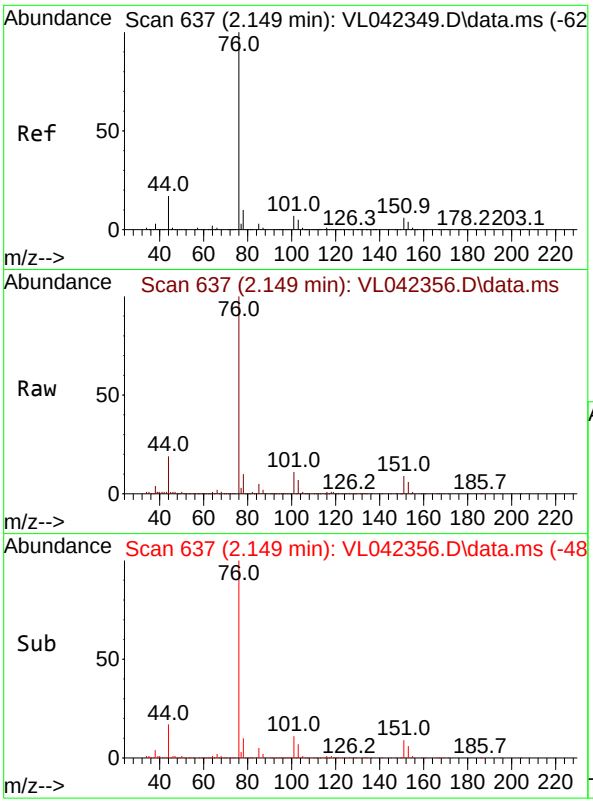


#26
Hexane
Concen: 9.439 ppbv
RT: 2.826 min Scan# 846
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

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



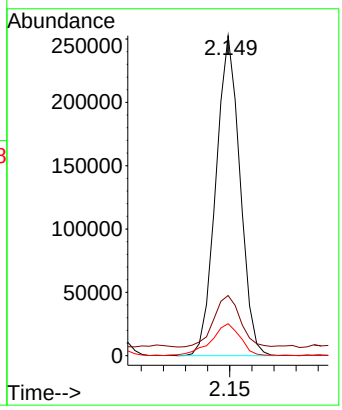


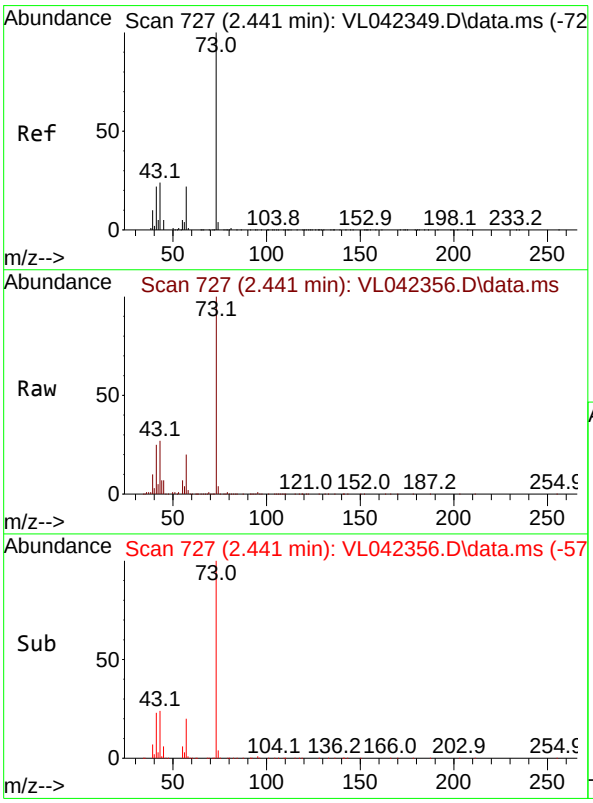
#27
Carbon Disulfide
Concen: 9.587 ppbv
RT: 2.149 min Scan# 6
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

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

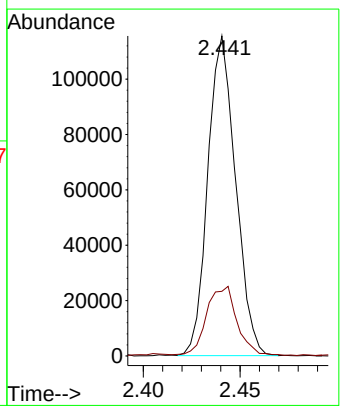


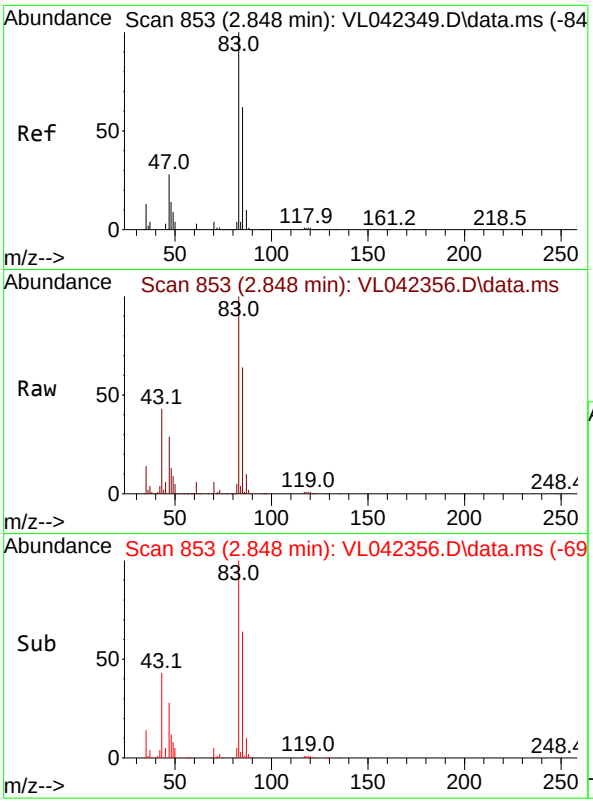


#28
Methyl tert-Butyl Ether
Concen: 9.442 ppbv
RT: 2.441 min Scan# 727
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 73 Resp: 115190

Ion	Ratio	Lower	Upper
73	100		
57	23.4	21.3	31.9



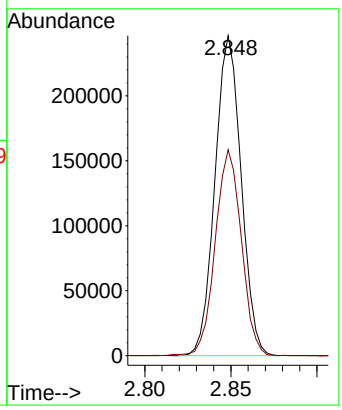


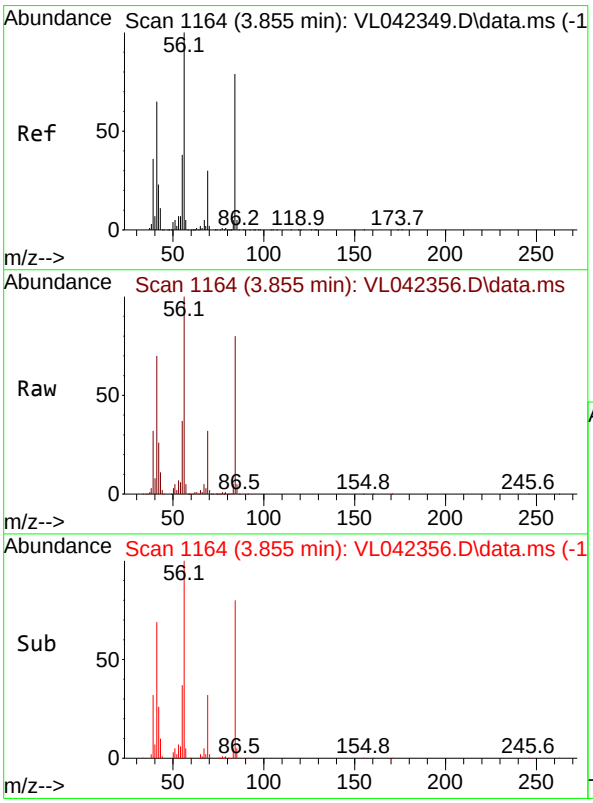
#29
Chloroform
Concen: 9.912 ppbv
RT: 2.848 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

Tgt Ion: 83 Resp: 260855

Ion	Ratio	Lower	Upper
83	100		
85	64.3	50.0	75.0

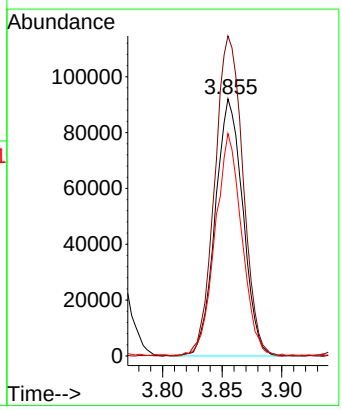


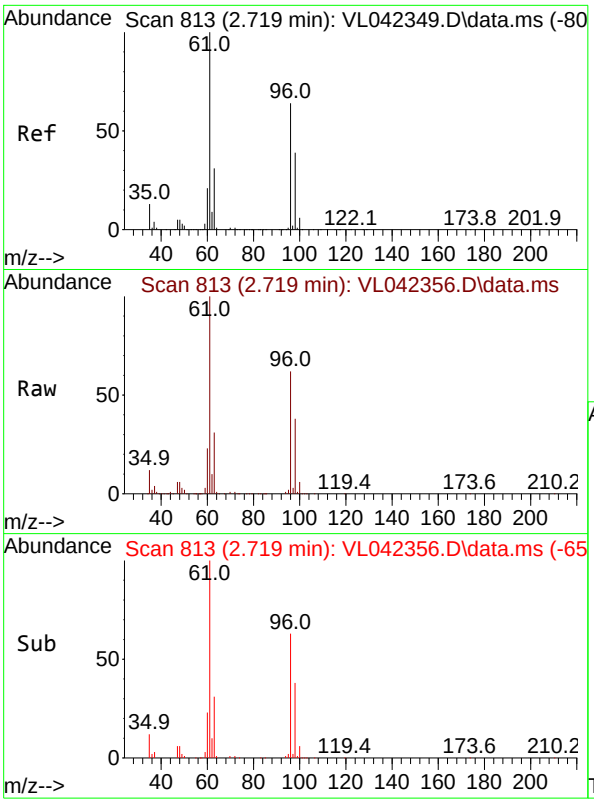


#30
Cyclohexane
Concen: 9.849 ppbv
RT: 3.855 min Scan# 1164
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

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



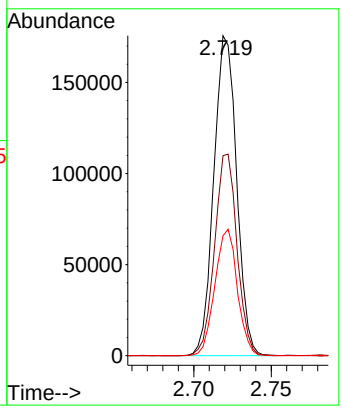


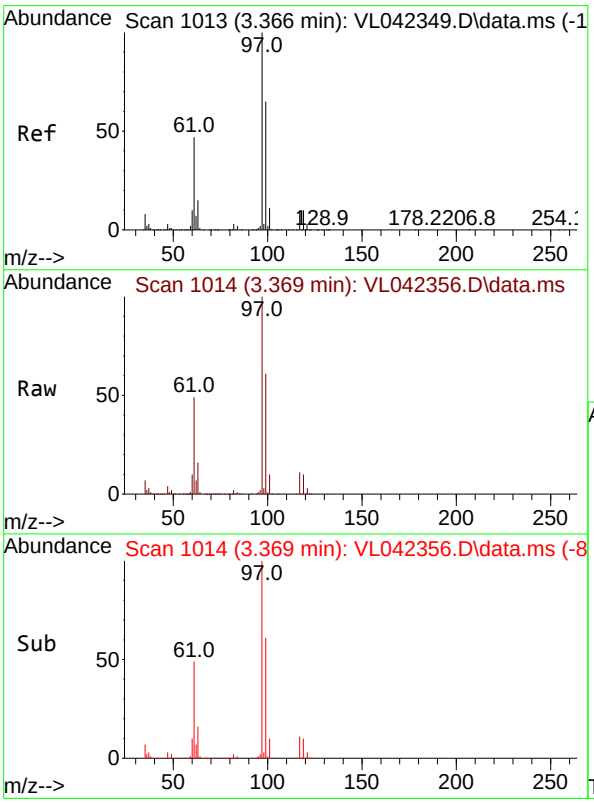
#31
cis-1,2-Dichloroethene
Concen: 10.167 ppbv
RT: 2.719 min Scan# 81
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

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

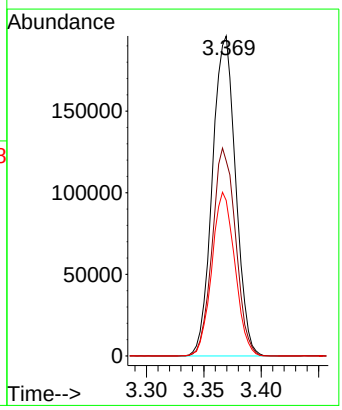


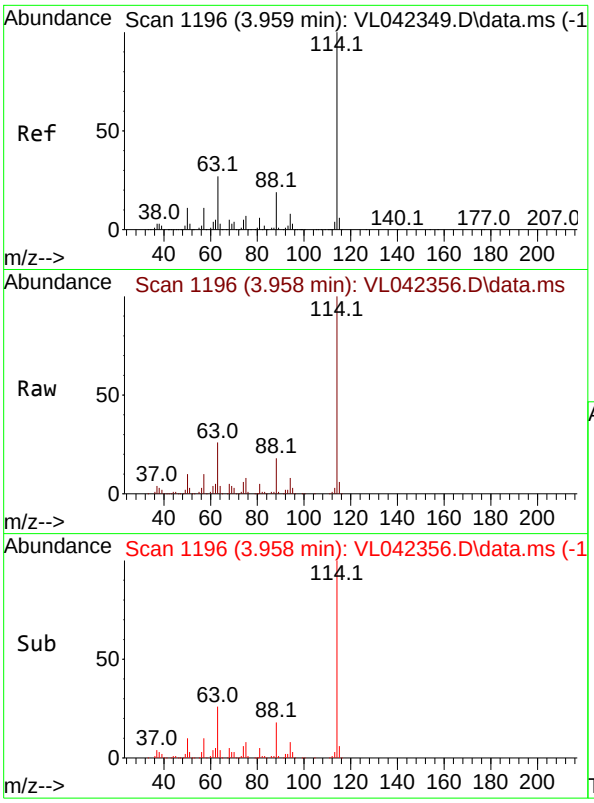


#32
1,1,1-Trichloroethane
Concen: 9.336 ppbv
RT: 3.369 min Scan# 1014
Delta R.T. 0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

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



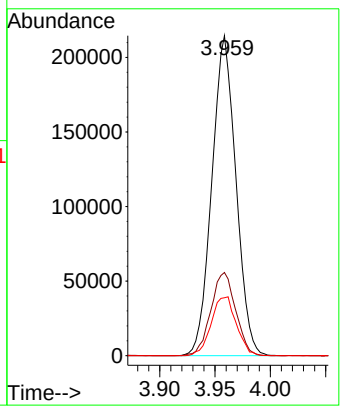


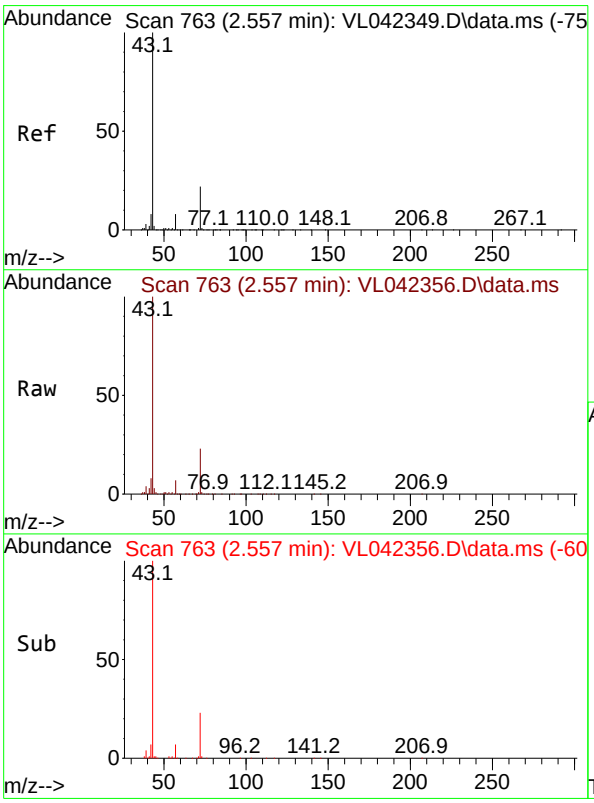
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.958 min Scan# 1
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

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

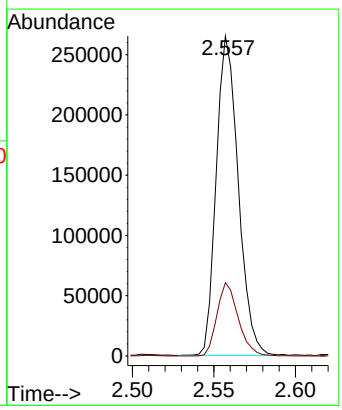


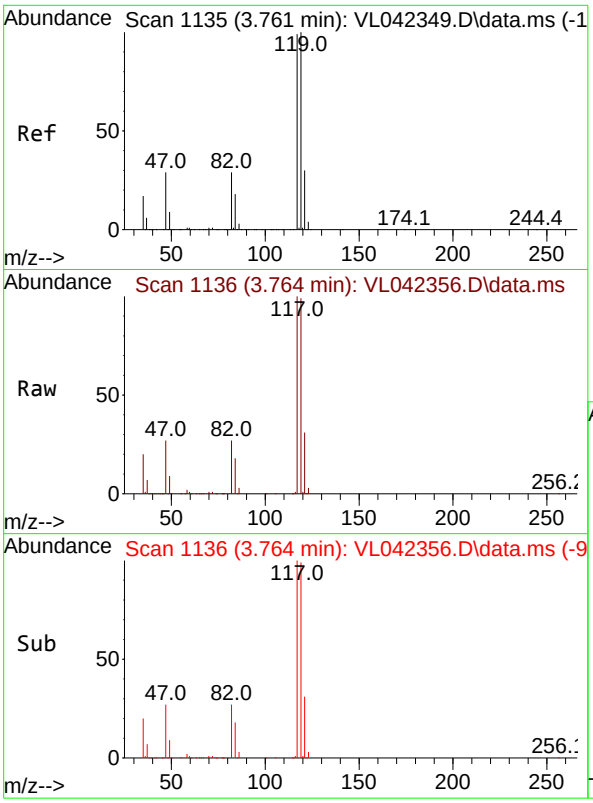


#34
2-Butanone
Concen: 9.700 ppbv
RT: 2.557 min Scan# 763
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 43 Resp: 248969

Ion	Ratio	Lower	Upper
43	100		
72	22.1	18.2	27.2



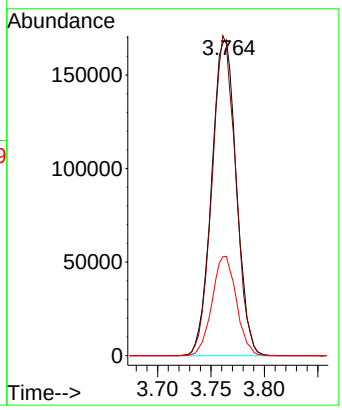


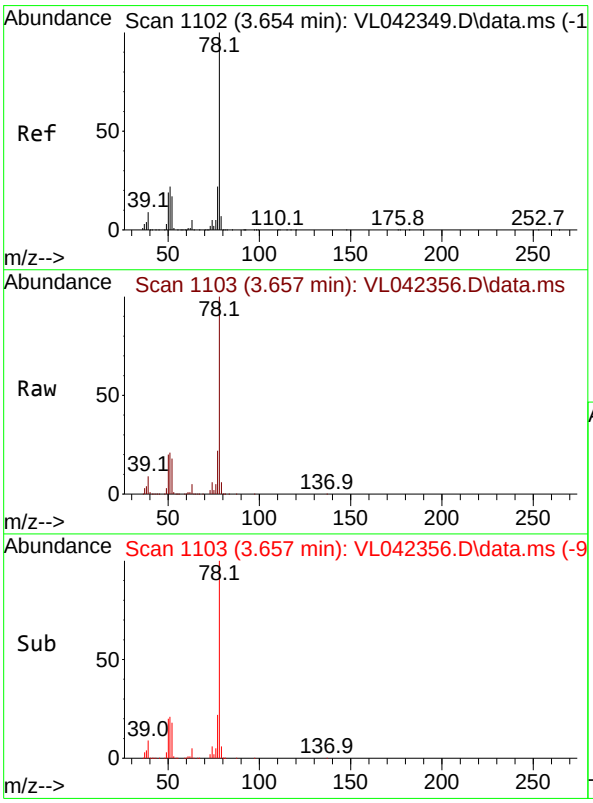
#35
Carbon Tetrachloride
Concen: 9.256 ppbv
RT: 3.764 min Scan# 11
Delta R.T. 0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

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

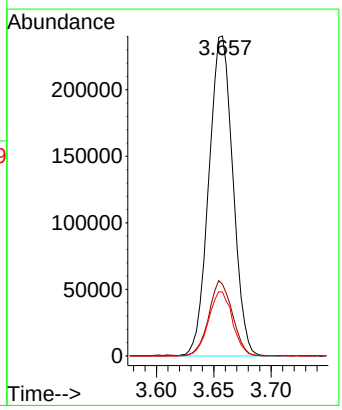


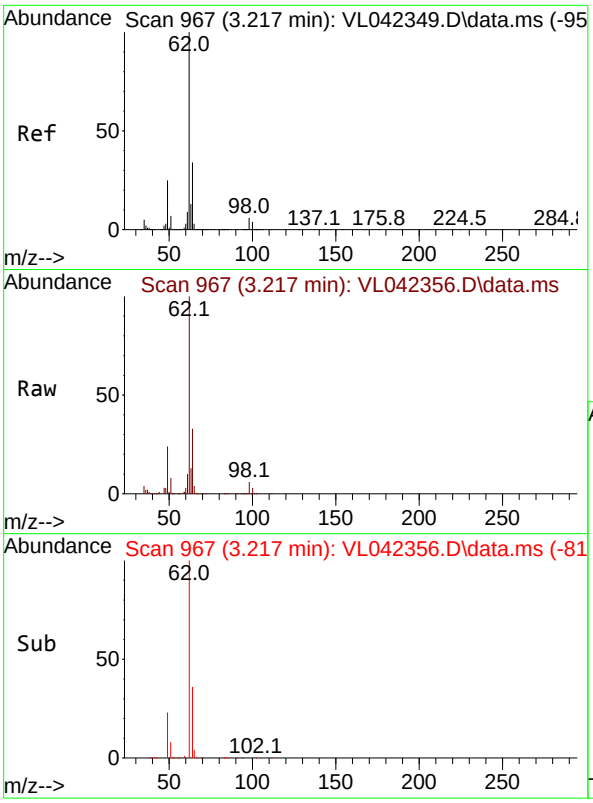


#36
Benzene
Concen: 10.014 ppbv
RT: 3.657 min Scan# 1103
Delta R.T. 0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

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



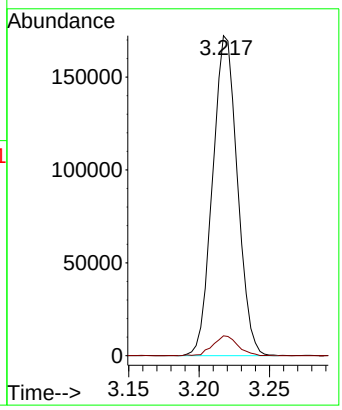


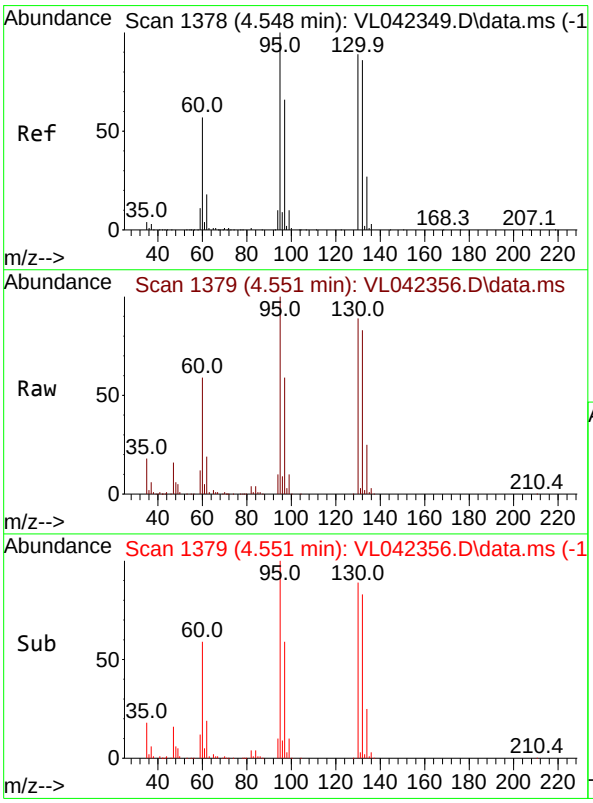
#37
1,2-Dichloroethane
Concen: 10.081 ppbv
RT: 3.217 min Scan# 9
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

Tgt Ion: 62 Resp: 211790

Ion	Ratio	Lower	Upper
62	100		
98	6.2	5.1	7.7

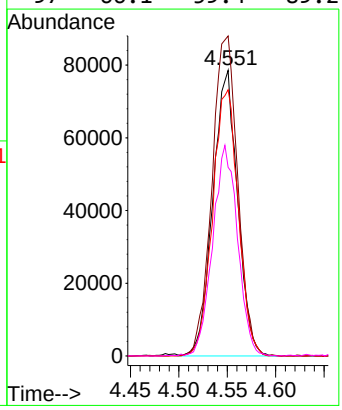


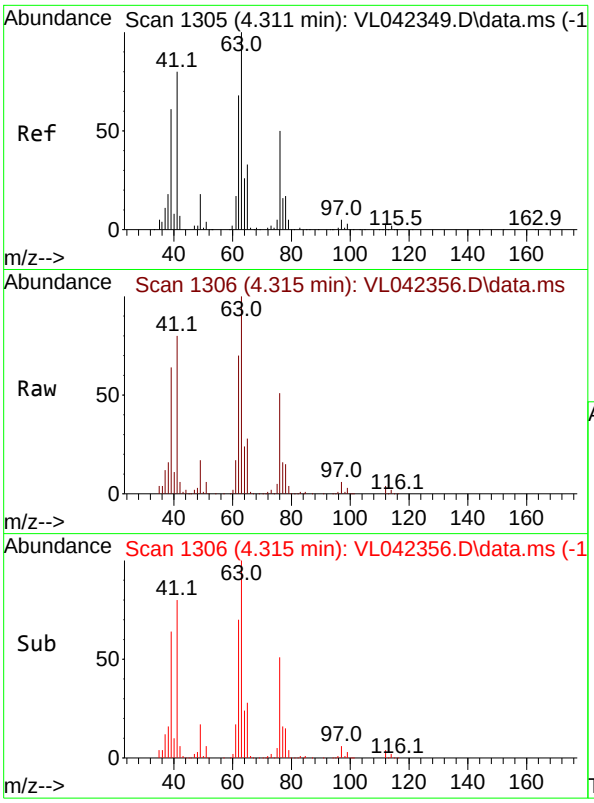


#38
Trichloroethene
Concen: 9.143 ppbv
RT: 4.551 min Scan# 1379
Delta R.T. 0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

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



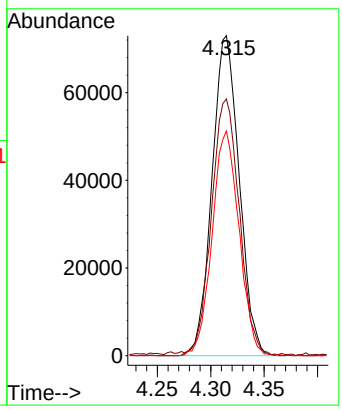


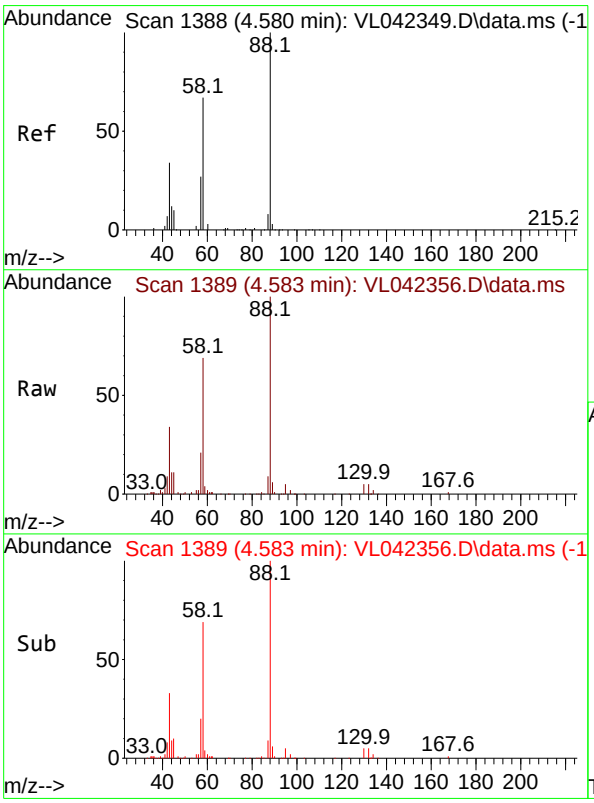
#39
1,2-Dichloropropane
Concen: 9.908 ppbv
RT: 4.315 min Scan# 1
Delta R.T. 0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

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

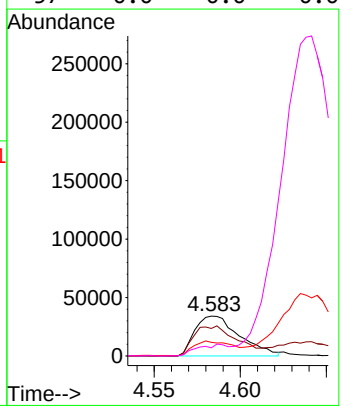


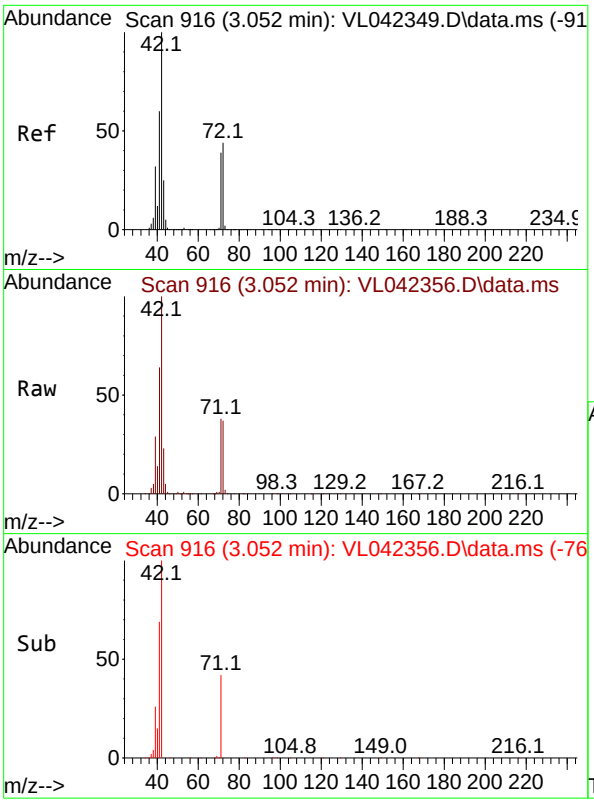


#40
1,4-Dioxane
Concen: 8.591 ppbv
RT: 4.583 min Scan# 1389
Delta R.T. 0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

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



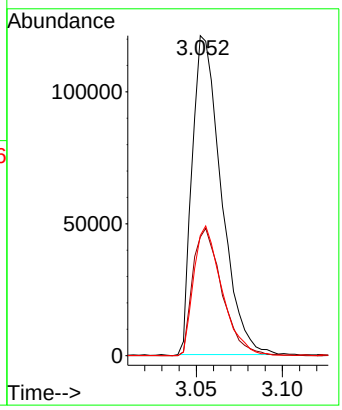


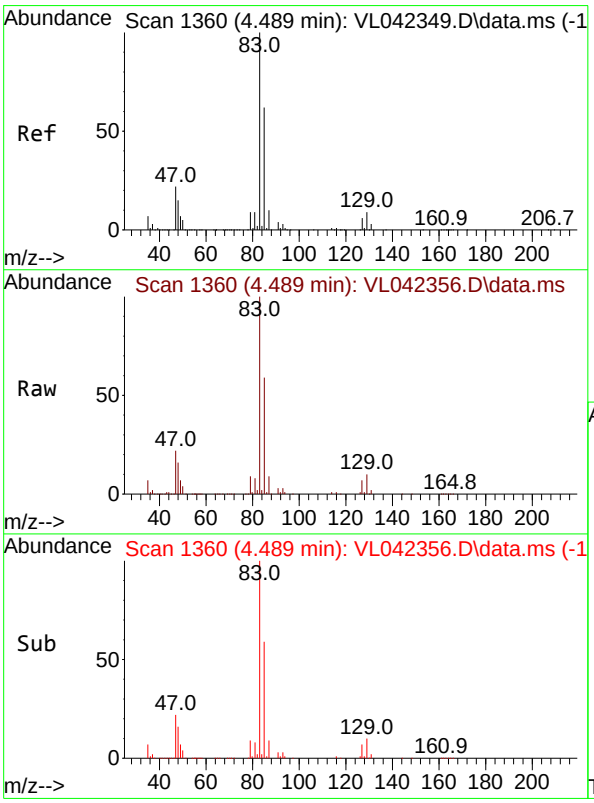
#41
Tetrahydrofuran
Concen: 9.479 ppbv
RT: 3.052 min Scan# 91
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

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

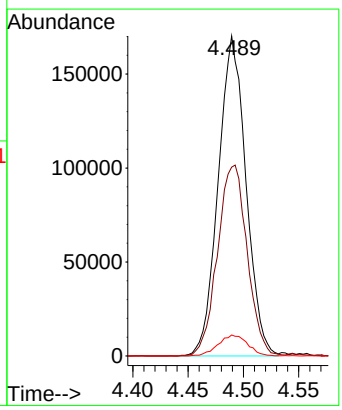


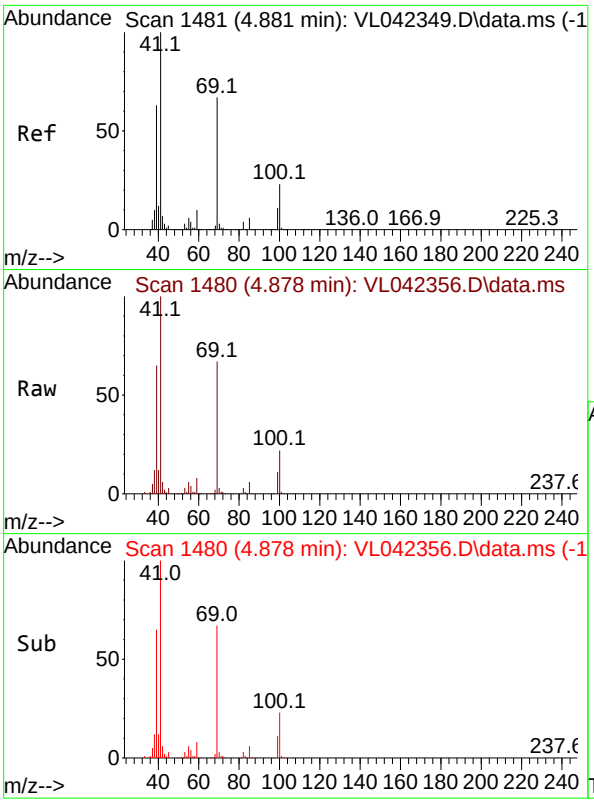


#42
Bromodichloromethane
Concen: 10.156 ppbv
RT: 4.489 min Scan# 1360
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

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



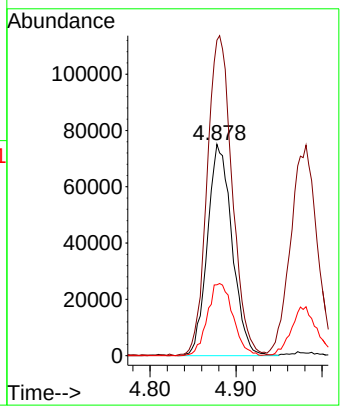


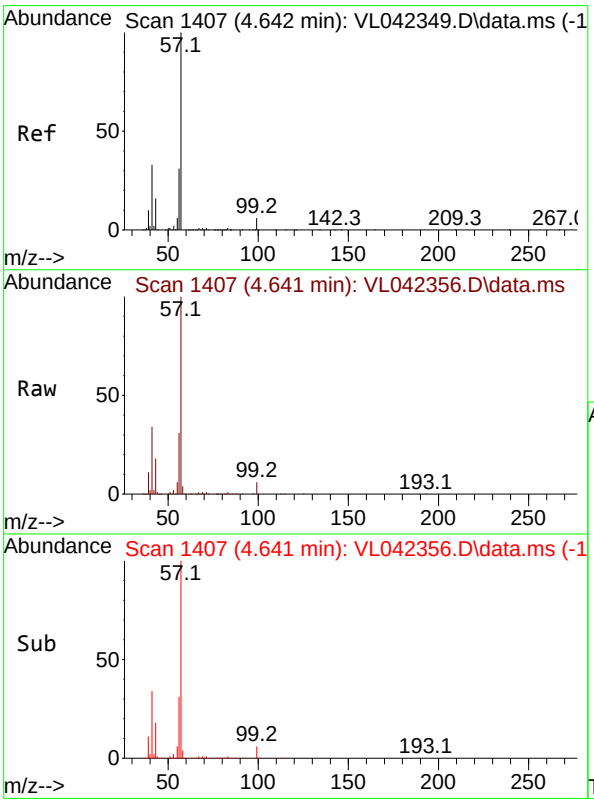
#43
Methyl Methacrylate
Concen: 9.458 ppbv
RT: 4.878 min Scan# 14
Delta R.T. -0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

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

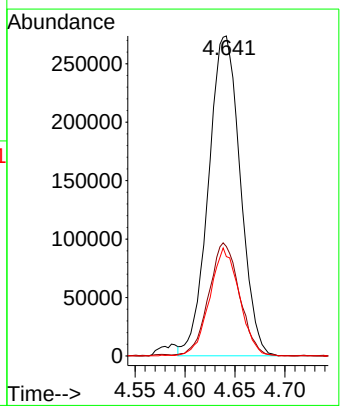


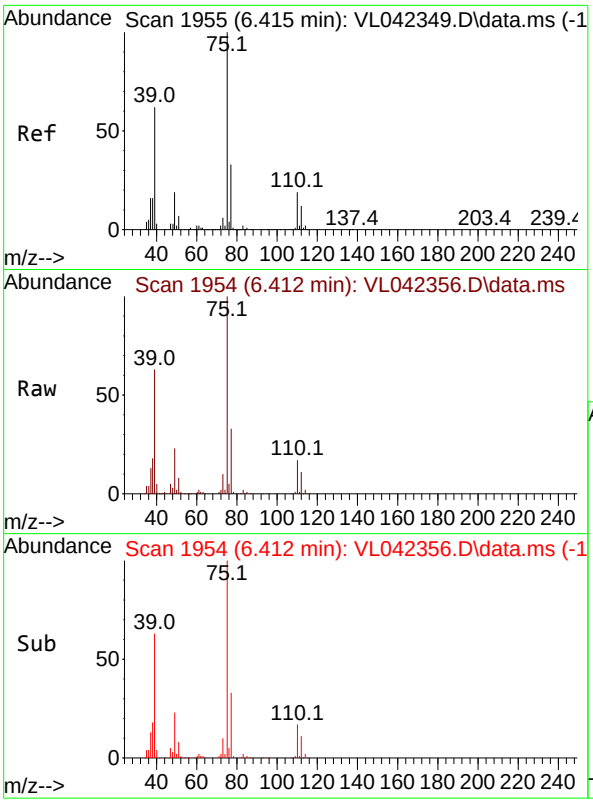


#44
2,2,4-Trimethylpentane
Concen: 10.030 ppbv
RT: 4.641 min Scan# 1407
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

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



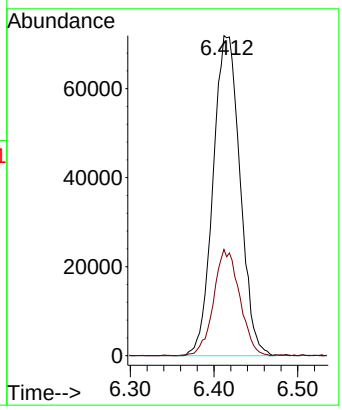


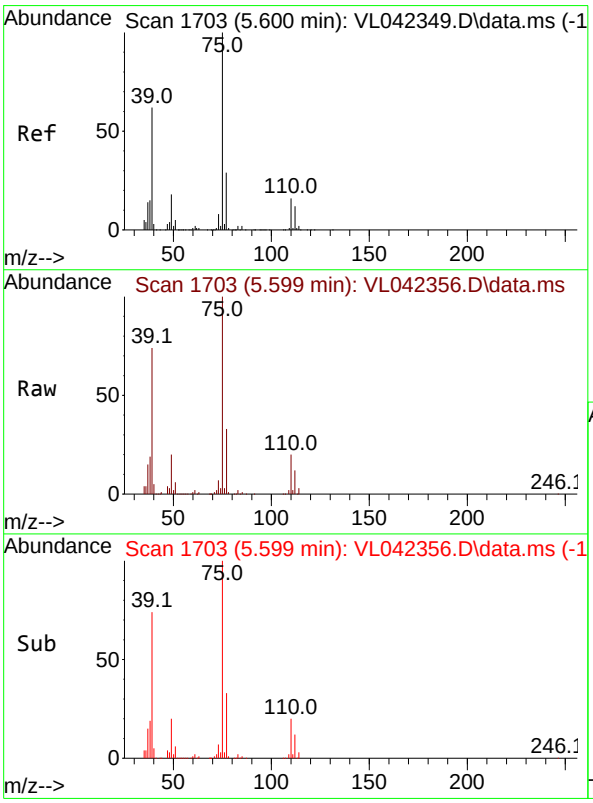
#45
t-1,3-Dichloropropene
Concen: 9.975 ppbv
RT: 6.412 min Scan# 1
Delta R.T. -0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

Tgt Ion: 75 Resp: 160750

Ion	Ratio	Lower	Upper
75	100		
77	33.2	27.0	40.6

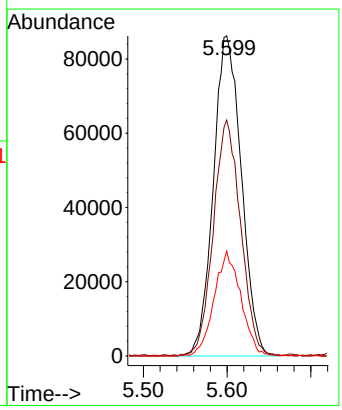


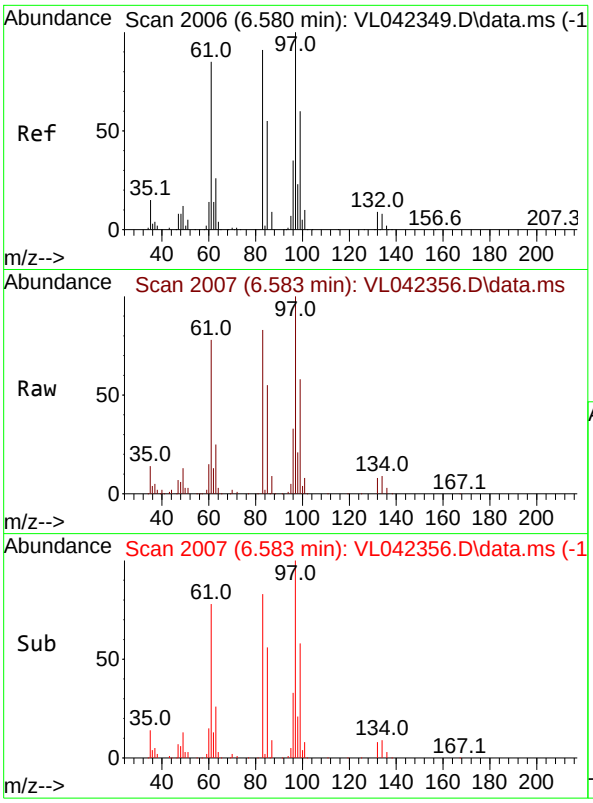


#46
cis-1,3-Dichloropropene
Concen: 10.148 ppbv
RT: 5.599 min Scan# 1703
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

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



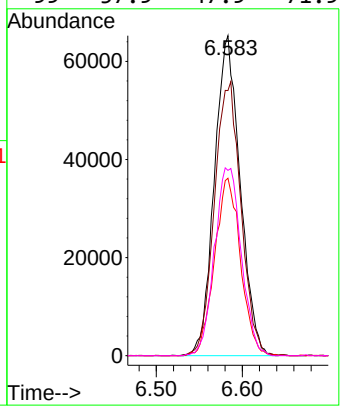


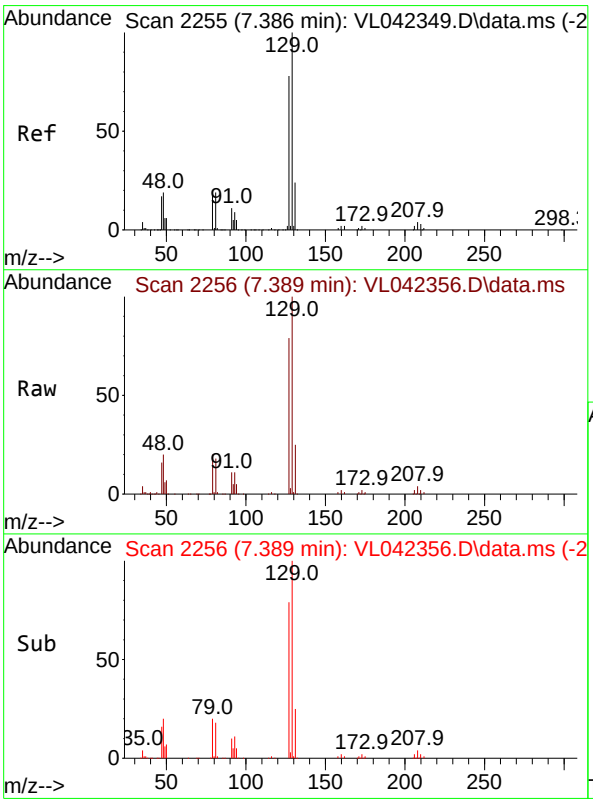
#47
1,1,2-Trichloroethane
Concen: 10.202 ppbv
RT: 6.583 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

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

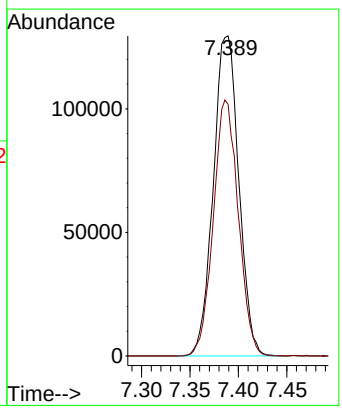


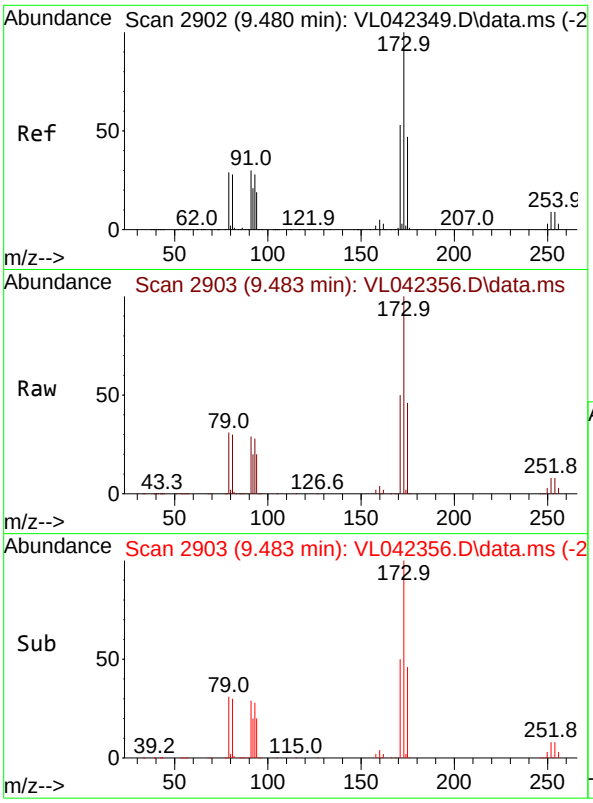


#48
Dibromochloromethane
Concen: 10.103 ppbv
RT: 7.389 min Scan# 2256
Delta R.T. 0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion:129 Resp: 237206

Ion	Ratio	Lower	Upper
129	100		
127	78.4	39.1	117.3



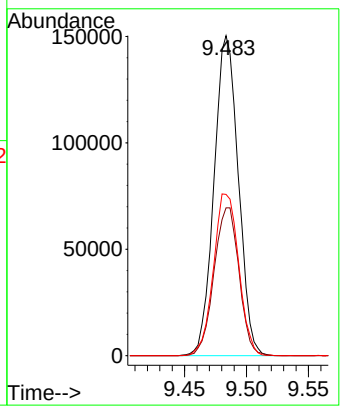


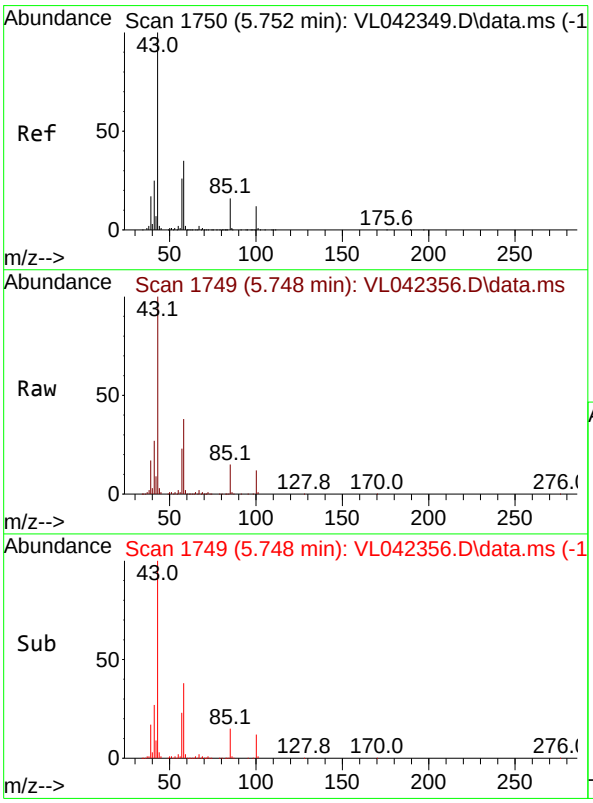
#49
Bromoform
Concen: 10.016 ppbv
RT: 9.483 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

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

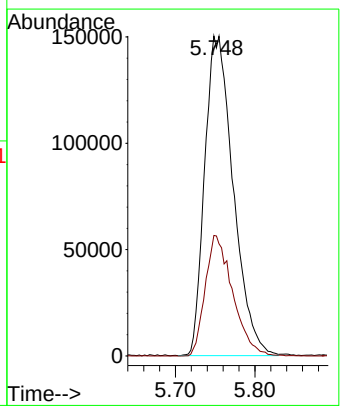


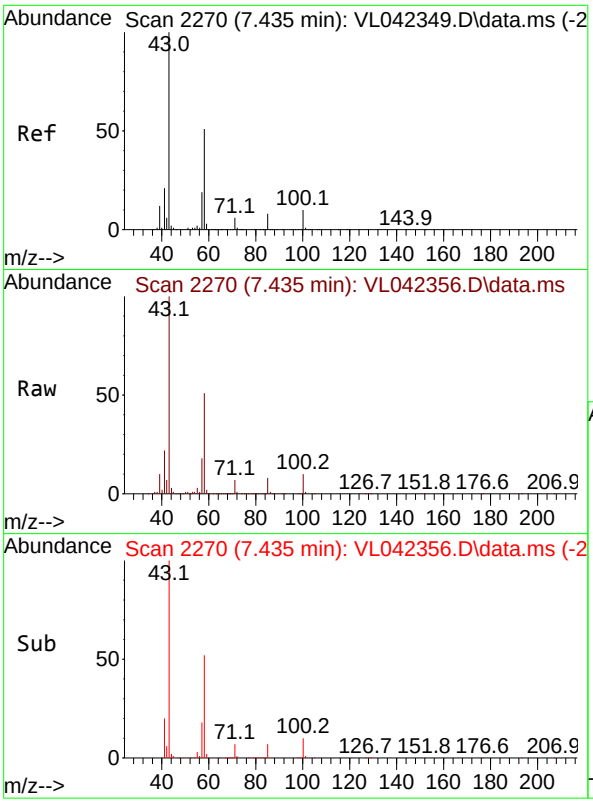


#50
4-Methyl-2-Pentanone
Concen: 8.819 ppbv
RT: 5.748 min Scan# 1749
Delta R.T. -0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 43 Resp: 376145

Ion	Ratio	Lower	Upper
43	100		
58	36.2	28.6	43.0



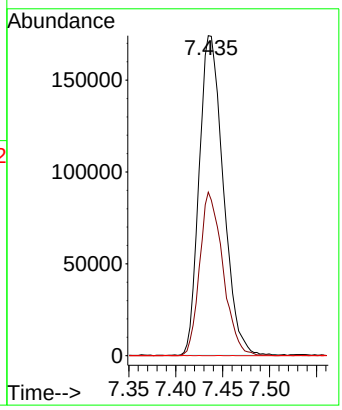


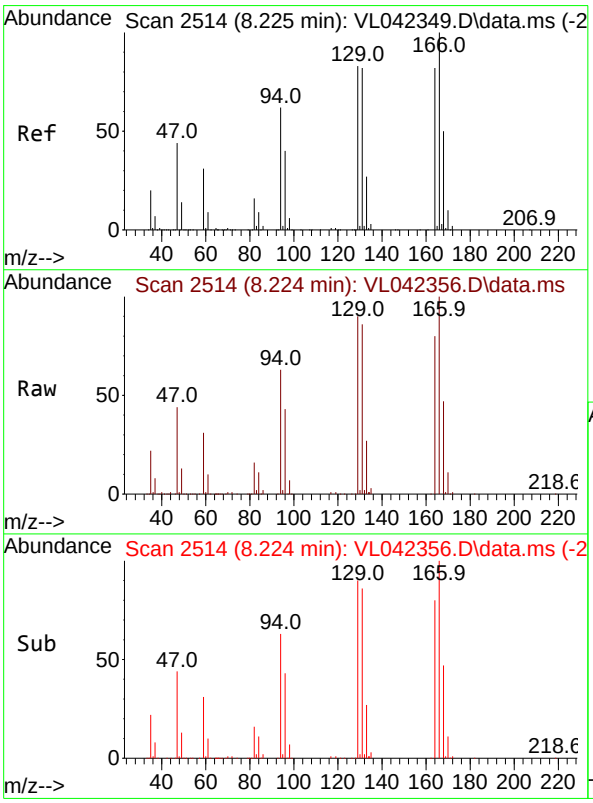
#51
2-Hexanone
Concen: 8.118 ppbv
RT: 7.435 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

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#

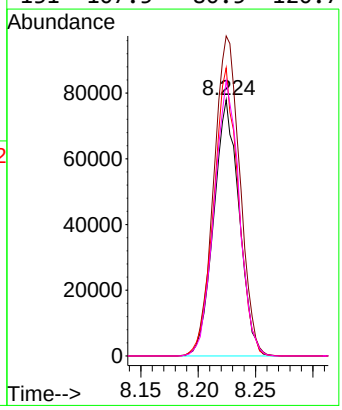


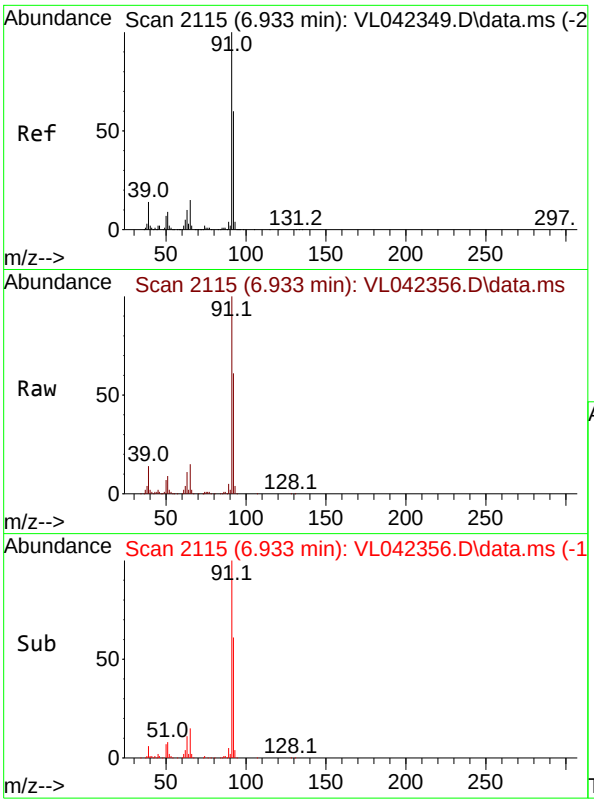


#52
Tetrachloroethene
Concen: 8.827 ppbv
RT: 8.224 min Scan# 2514
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

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



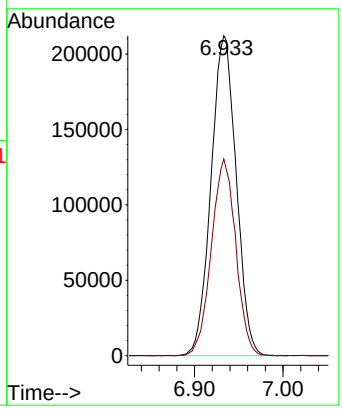


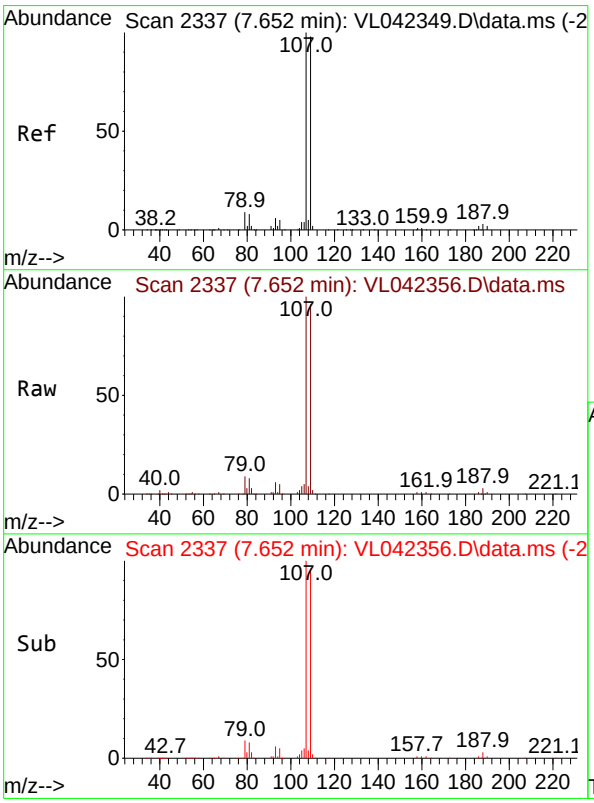
#53
Toluene
Concen: 9.986 ppbv
RT: 6.933 min Scan# 21
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

Tgt Ion: 91 Resp: 419462

Ion	Ratio	Lower	Upper
91	100		
92	59.6	48.2	72.4

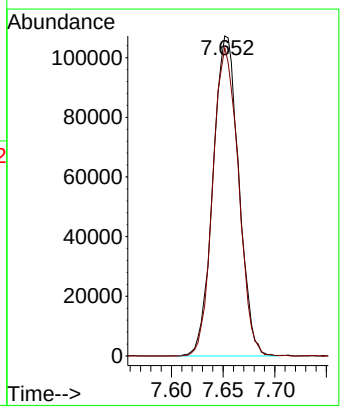


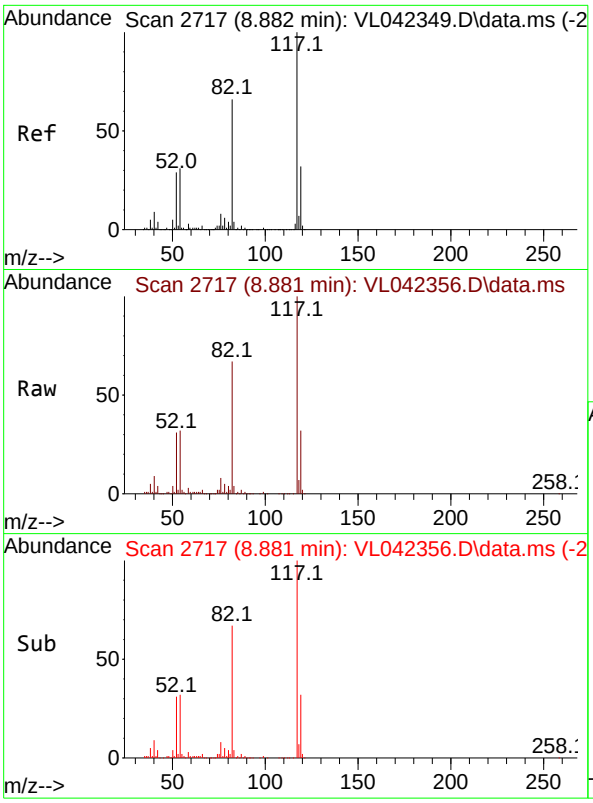


#54
1,2-Dibromoethane
Concen: 9.792 ppbv
RT: 7.652 min Scan# 2337
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion:107 Resp: 186231

Ion	Ratio	Lower	Upper
107	100		
109	96.3	78.2	117.4



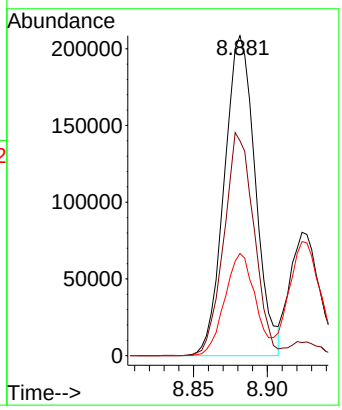


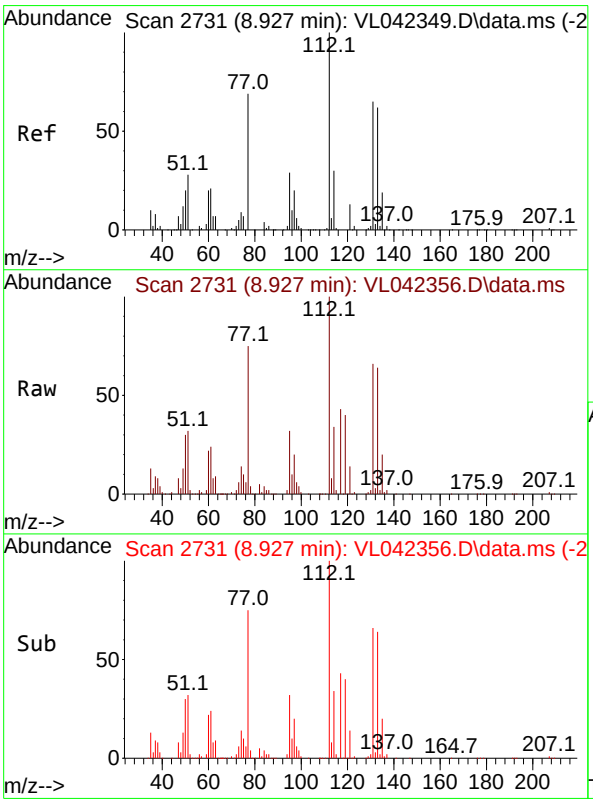
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.881 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

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

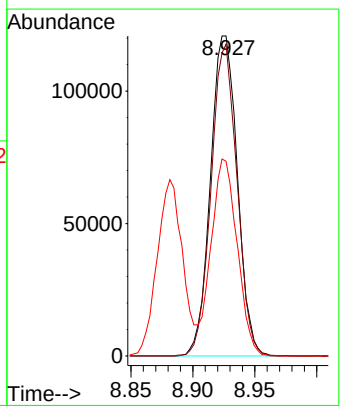


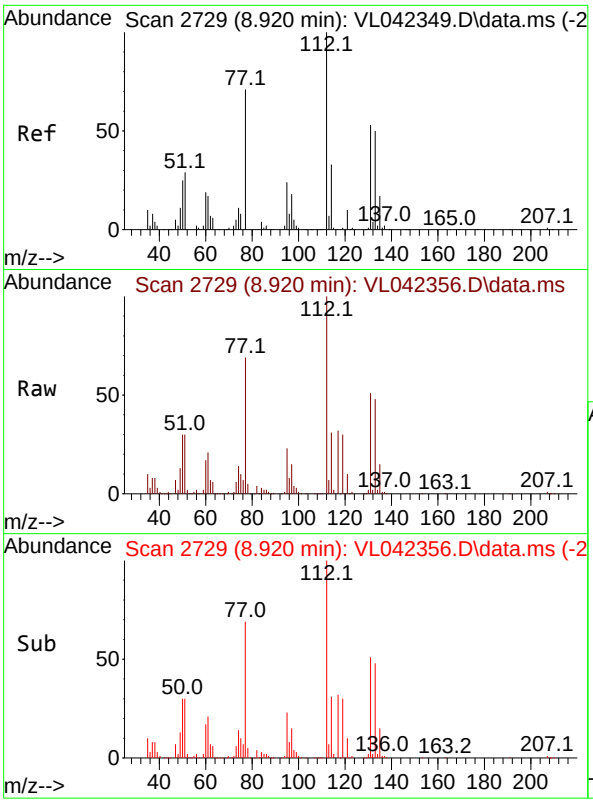


#56
1,1,1,2-Tetrachloroethane
Concen: 9.886 ppbv
RT: 8.927 min Scan# 2731
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

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



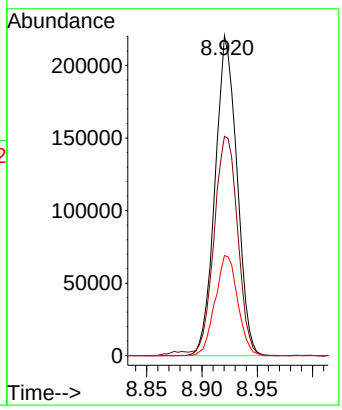


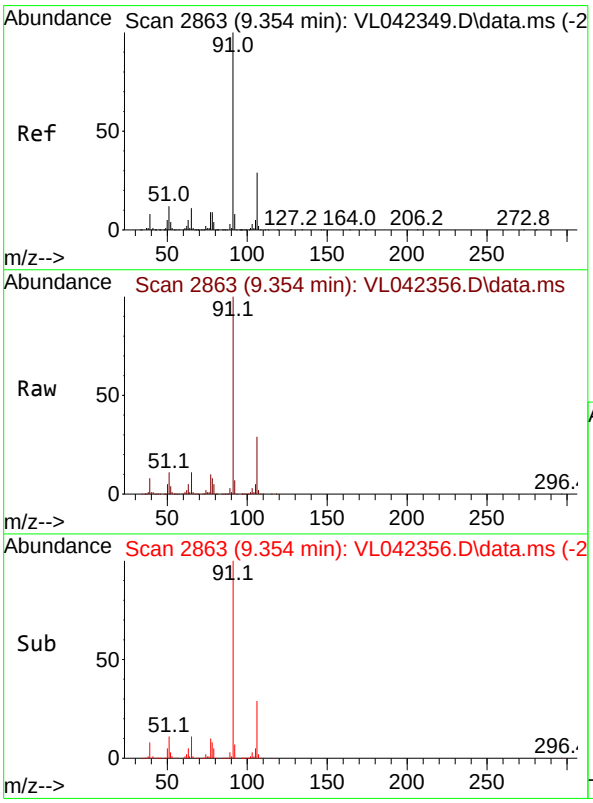
#57
Chlorobenzene
Concen: 9.589 ppbv
RT: 8.920 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

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

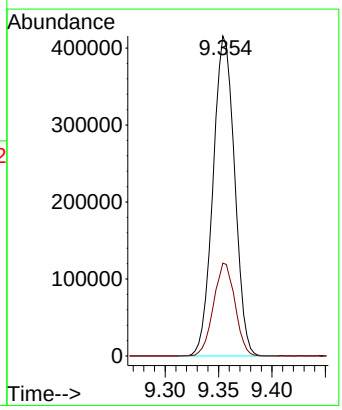


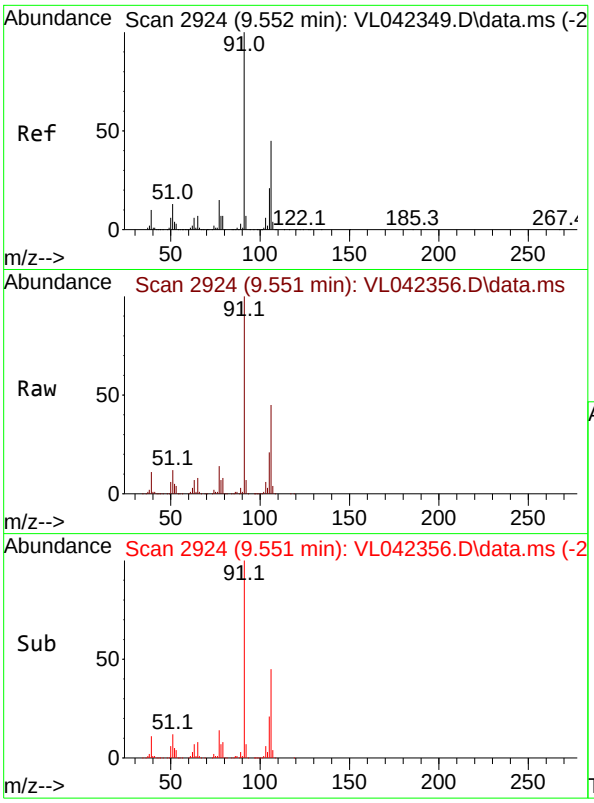


#58
Ethyl Benzene
Concen: 9.645 ppbv
RT: 9.354 min Scan# 2863
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 91 Resp: 583515

Ion	Ratio	Lower	Upper
91	100		
106	29.0	23.0	34.4



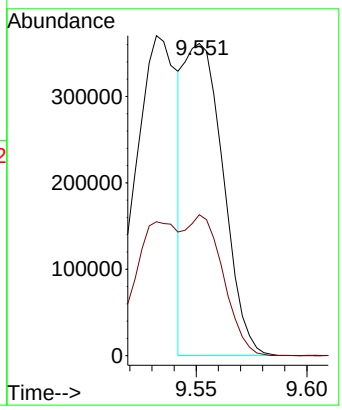


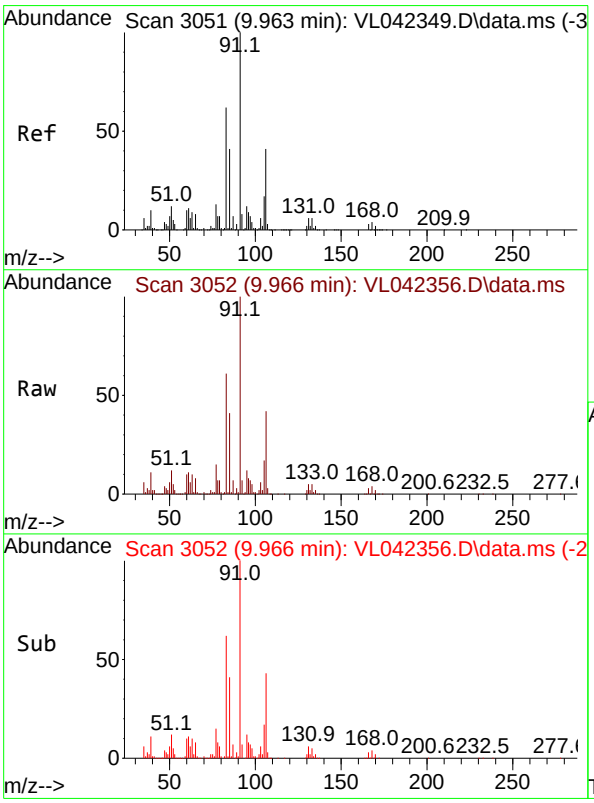
#59
m/p-Xylene
Concen: 9.084 ppbv
RT: 9.551 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

Tgt Ion: 91 Resp: 442744

Ion	Ratio	Lower	Upper
91	100		
106	92.1	35.4	53.2#

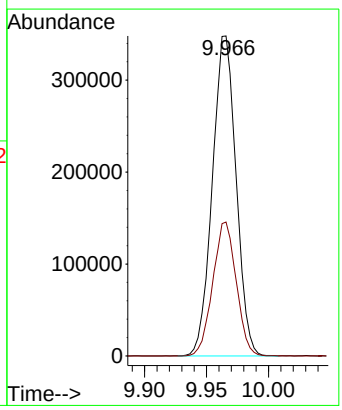


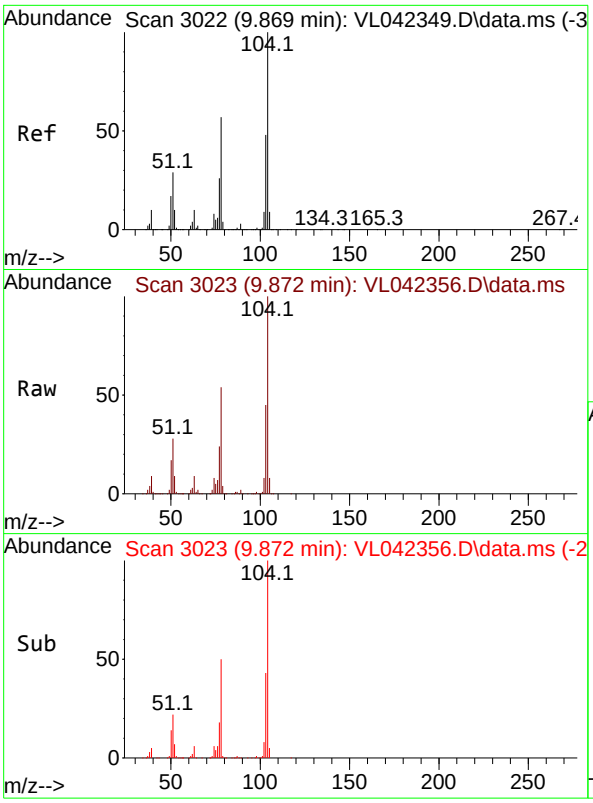


#60
o-Xylene
Concen: 9.465 ppbv
RT: 9.966 min Scan# 3052
Delta R.T. 0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 91 Resp: 464522

Ion	Ratio	Lower	Upper
91	100		
106	41.4	21.1	63.4



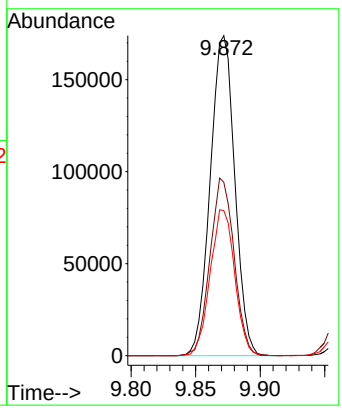


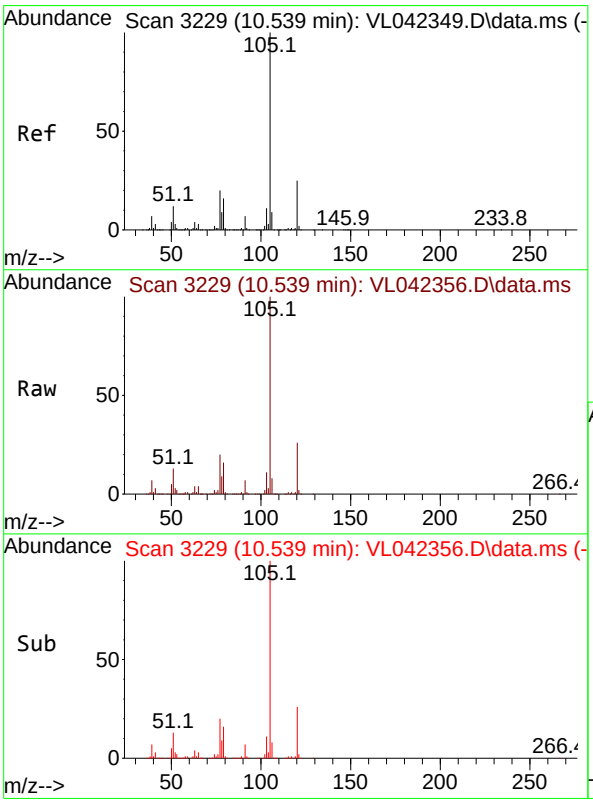
#61
Styrene
Concen: 9.813 ppbv
RT: 9.872 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

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

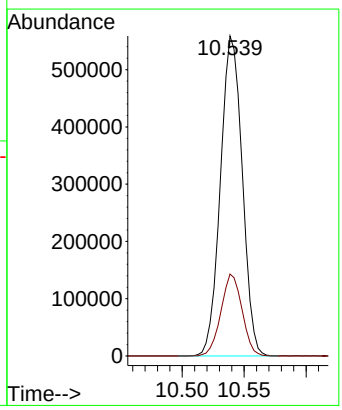


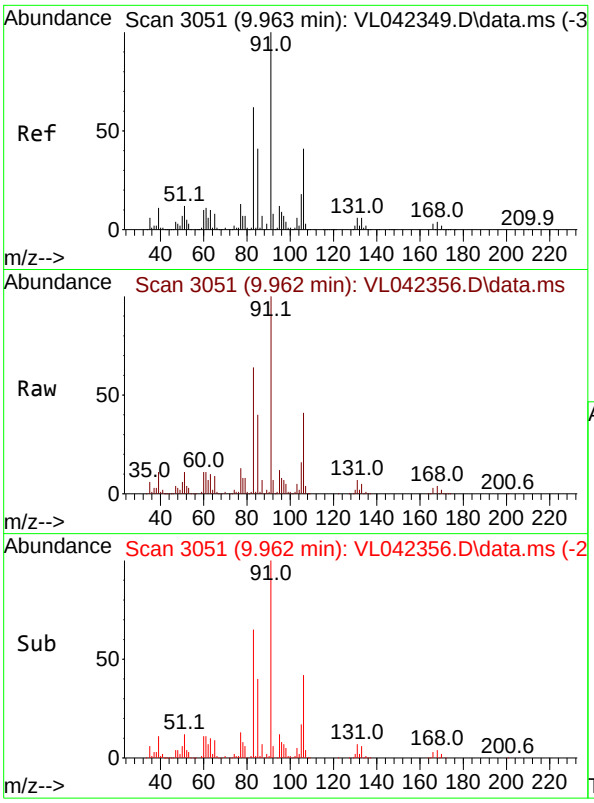


#62
Isopropylbenzene
Concen: 9.520 ppbv
RT: 10.539 min Scan# 3229
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion:105 Resp: 685965

Ion	Ratio	Lower	Upper
105	100		
120	24.8	19.8	29.8



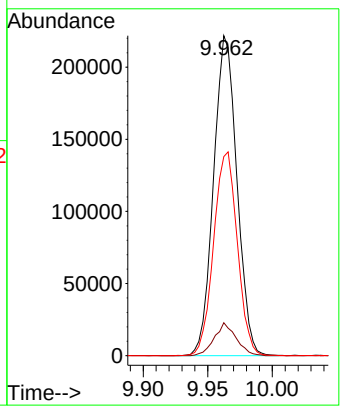


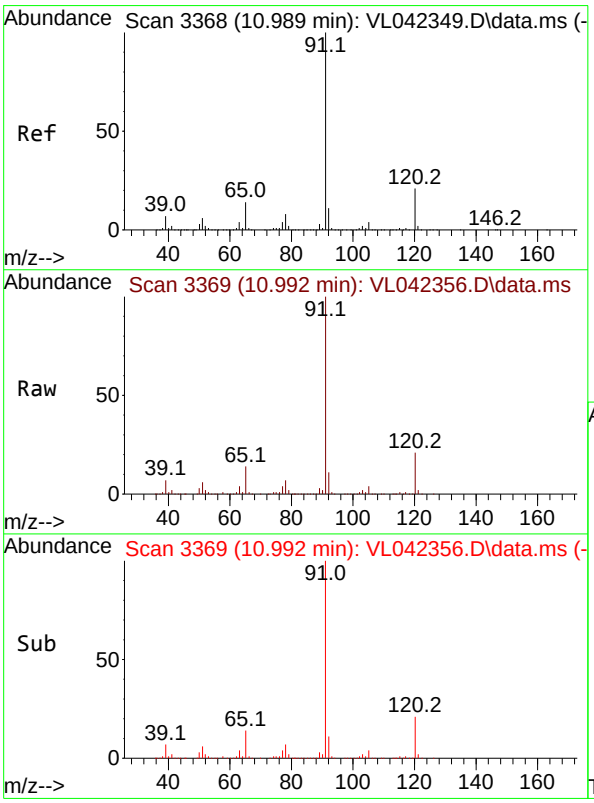
#63
1,1,2,2-Tetrachloroethane
Concen: 8.773 ppbv
RT: 9.962 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

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

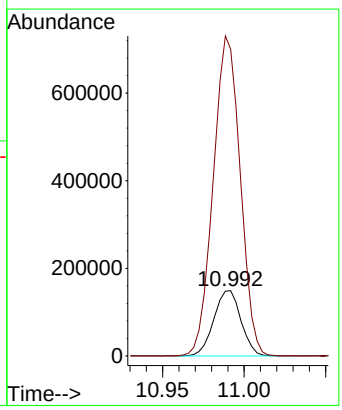


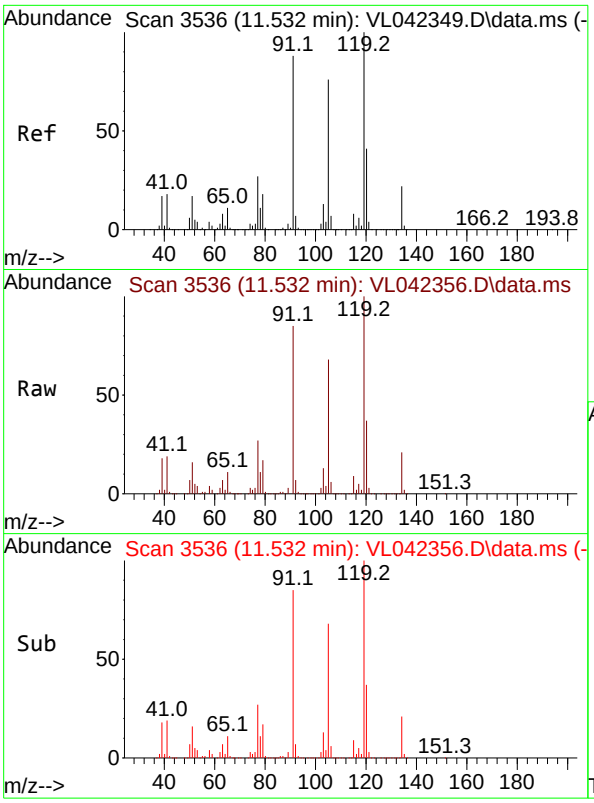


#64
n-propylbenzene
Concen: 9.533 ppbv
RT: 10.992 min Scan# 3369
Delta R.T. 0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion:120 Resp: 172654

Ion	Ratio	Lower	Upper
120	100		
91	487.7	392.4	588.6



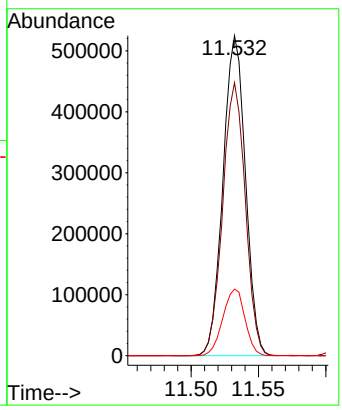


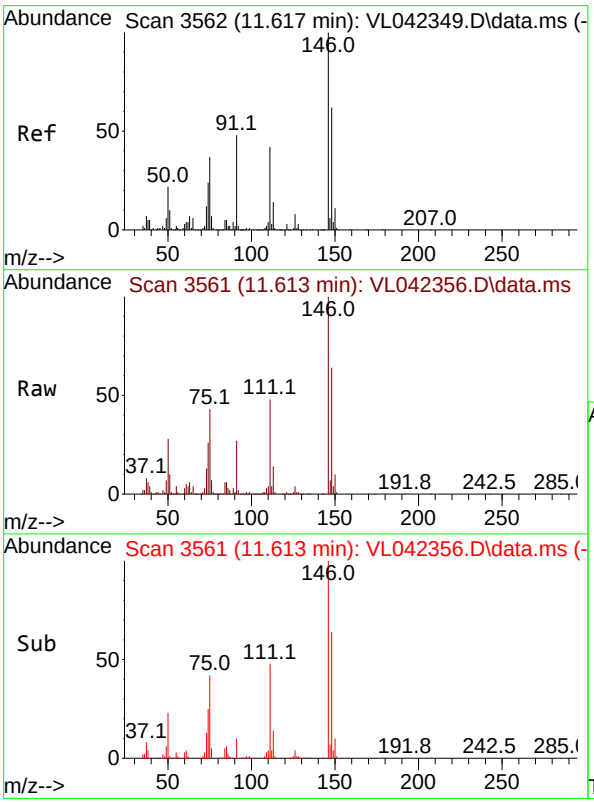
#65
tert-Butylbenzene
Concen: 9.203 ppbv
RT: 11.532 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

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

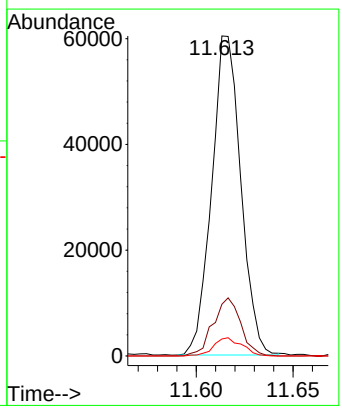


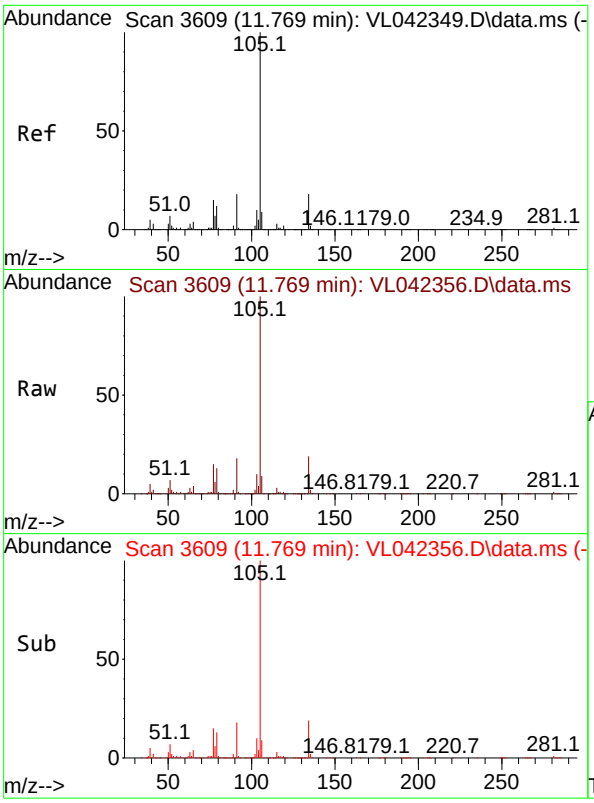


#66
Benzyl Chloride
Concen: 8.664 ppbv
RT: 11.613 min Scan# 3561
Delta R.T. -0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

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



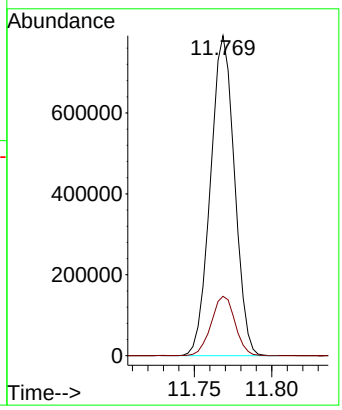


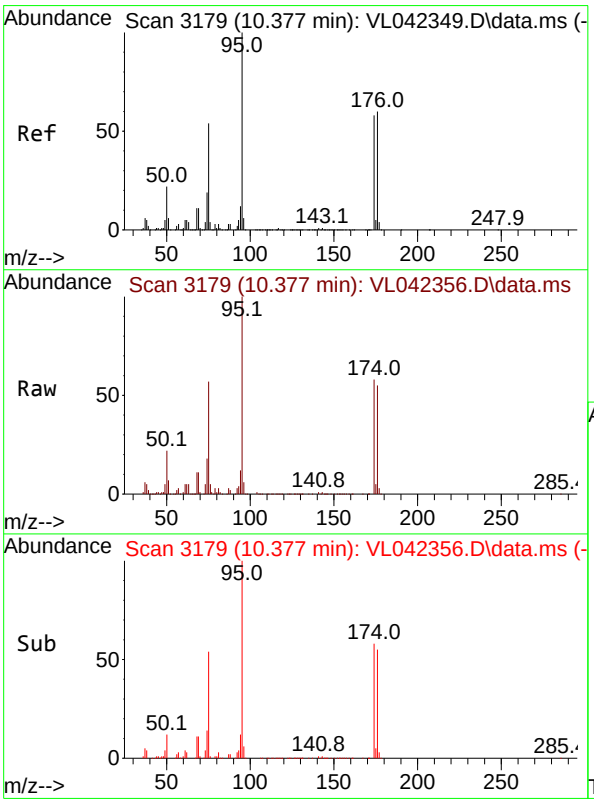
#67
sec-Butylbenzene
Concen: 9.268 ppbv
RT: 11.769 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

Tgt Ion:105 Resp: 853807

Ion	Ratio	Lower	Upper
105	100		
134	18.5	14.6	21.8

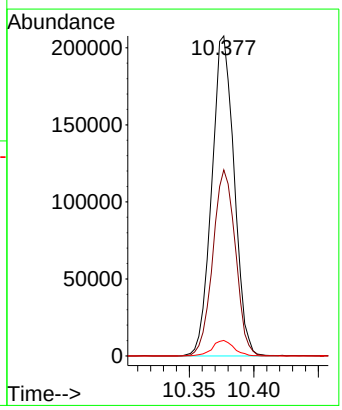


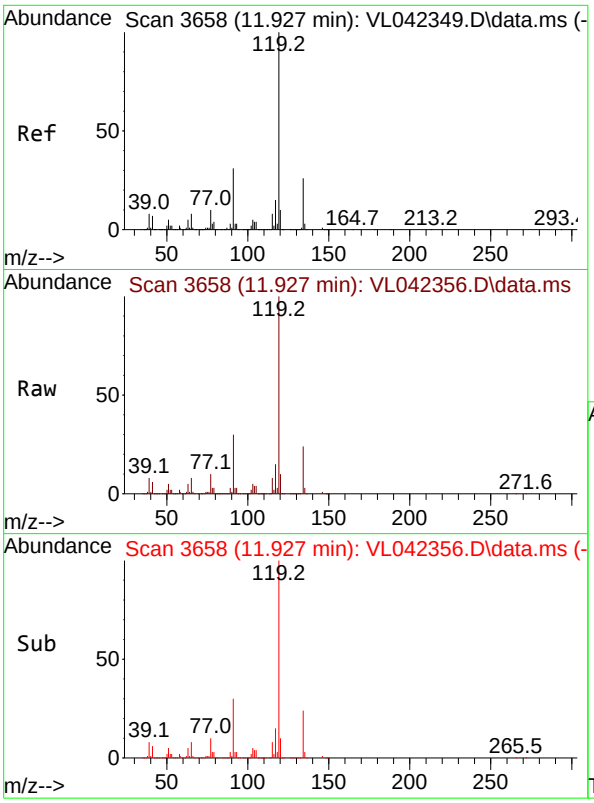


#68
1-Bromo-4-Fluorobenzene
Concen: 9.969 ppbv
RT: 10.377 min Scan# 3179
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

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



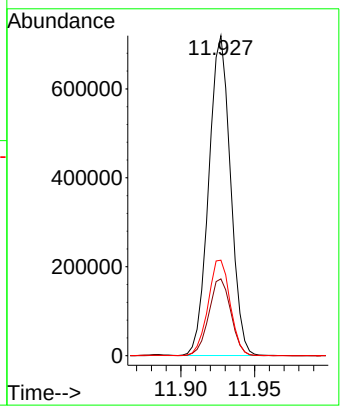


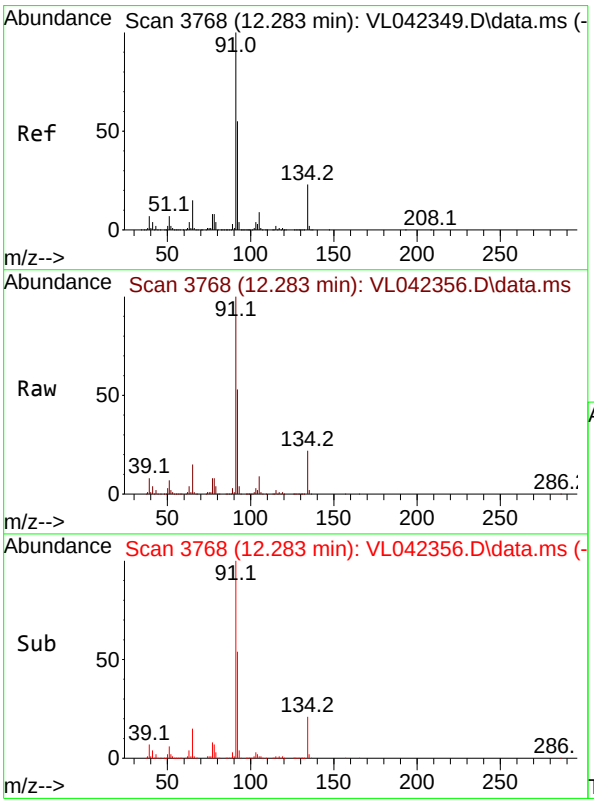
#69
p-Isopropyltoluene
Concen: 9.220 ppbv
RT: 11.927 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

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

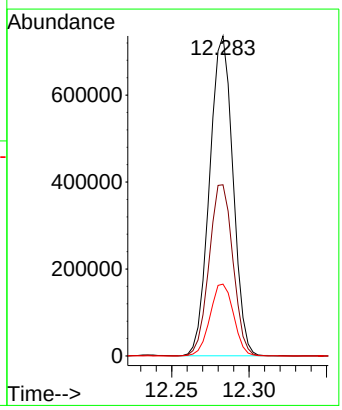


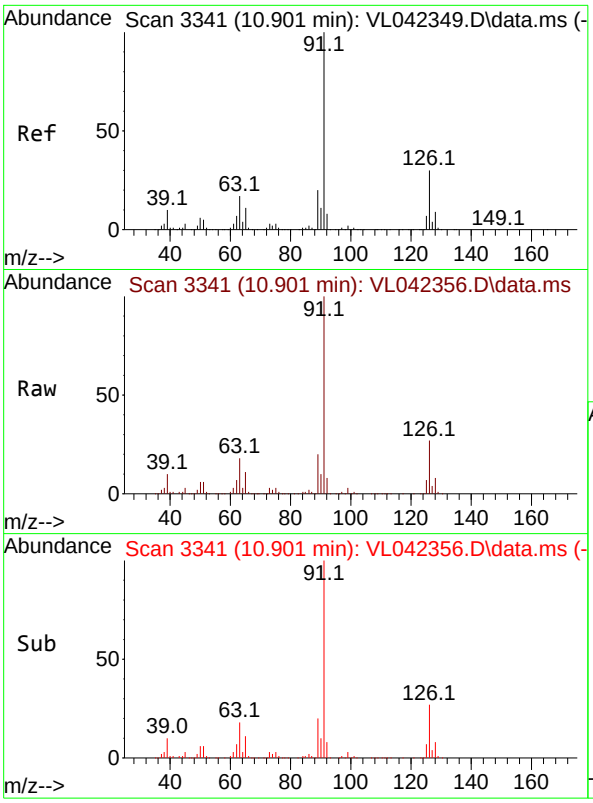


#70
n-Butylbenzene
Concen: 9.255 ppbv
RT: 12.283 min Scan# 3768
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

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



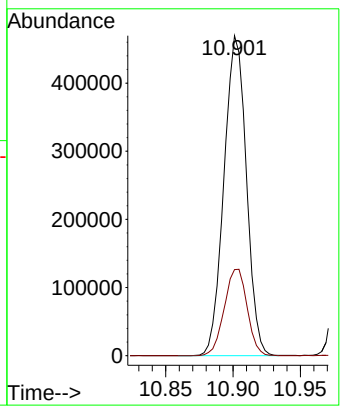


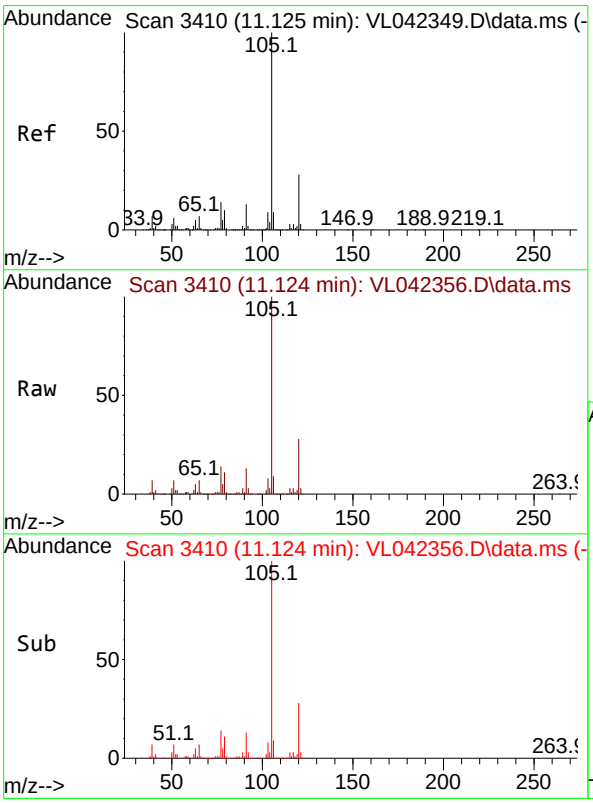
#71
2-Chlorotoluene
Concen: 9.622 ppbv
RT: 10.901 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

Tgt Ion: 91 Resp: 543794

Ion	Ratio	Lower	Upper
91	100		
126	27.5	11.4	45.4

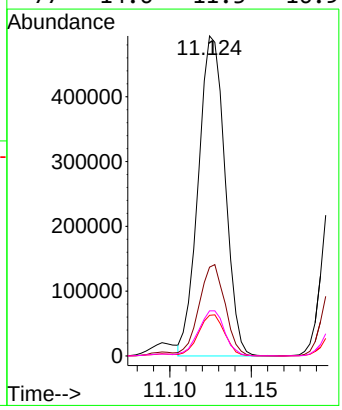


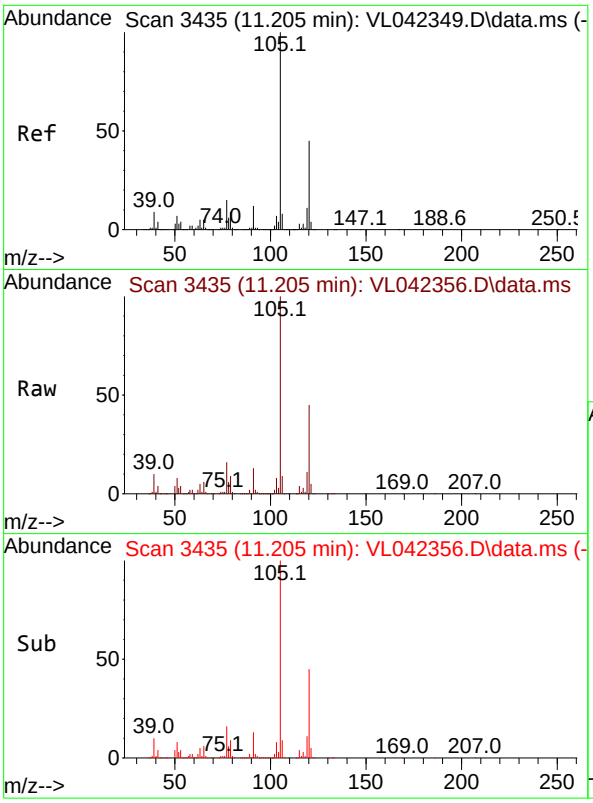


#72
4-Ethyltoluene
Concen: 9.385 ppbv
RT: 11.124 min Scan# 3410
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

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



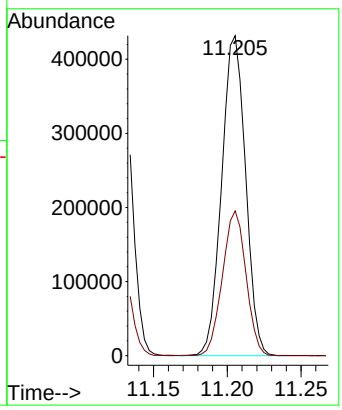


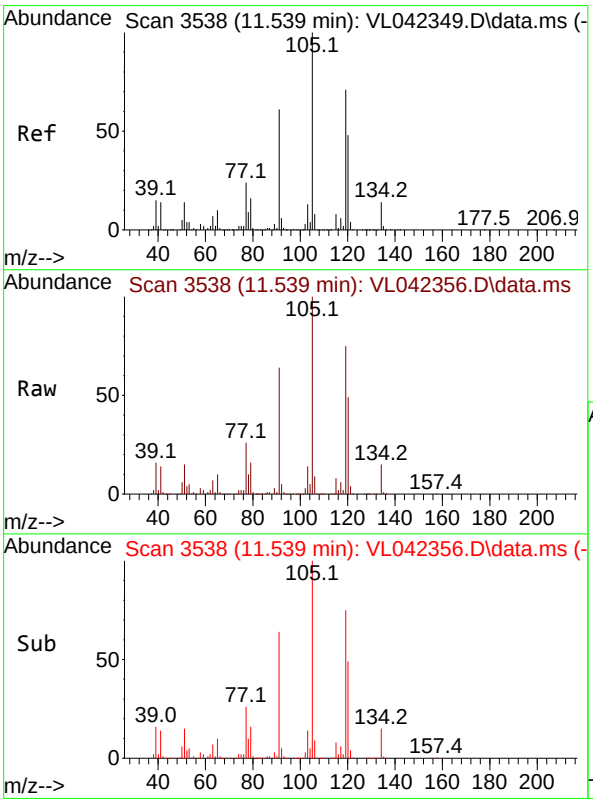
#73
1,3,5-Trimethylbenzene
Concen: 9.186 ppbv
RT: 11.205 min Scan# 34
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

Tgt Ion:105 Resp: 486583

Ion	Ratio	Lower	Upper
105	100		
120	45.2	35.6	53.4

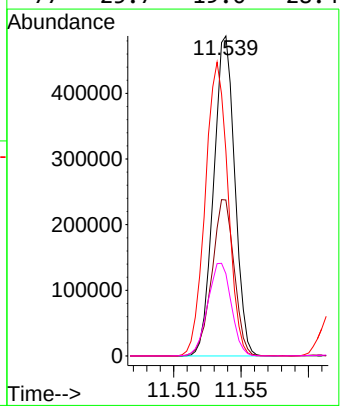


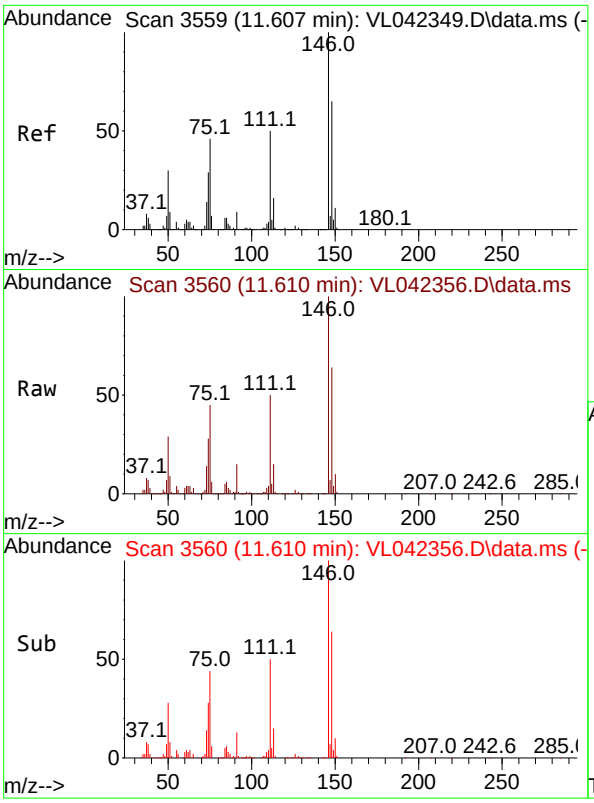


#74
1,2,4-Trimethylbenzene
Concen: 8.592 ppbv
RT: 11.539 min Scan# 3538
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

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



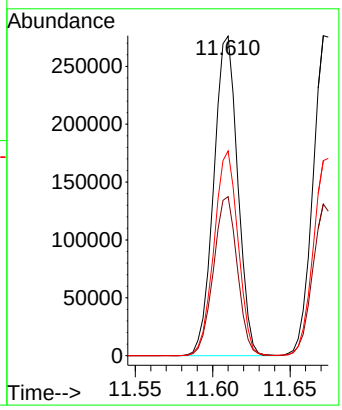


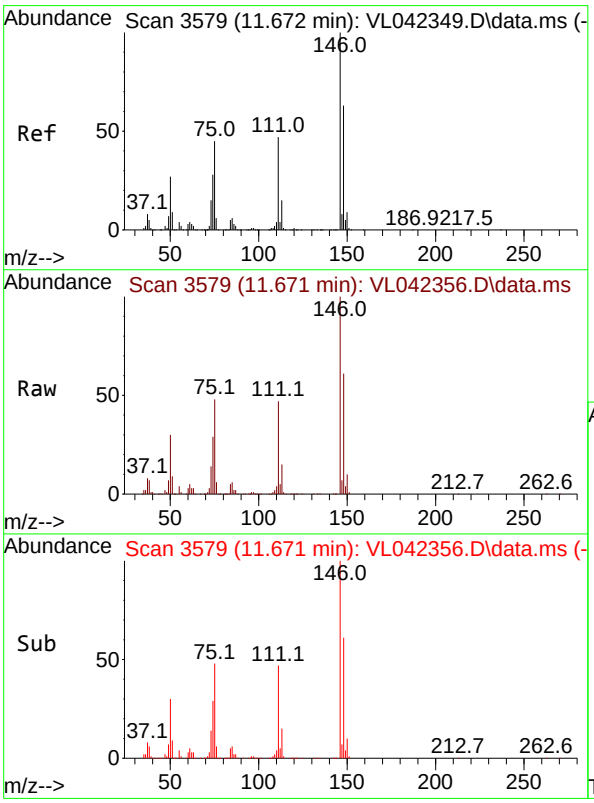
#75
1,3-Dichlorobenzene
Concen: 9.240 ppbv
RT: 11.610 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

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

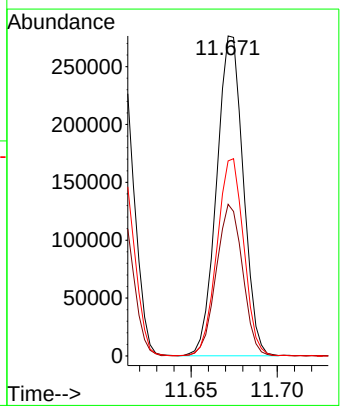


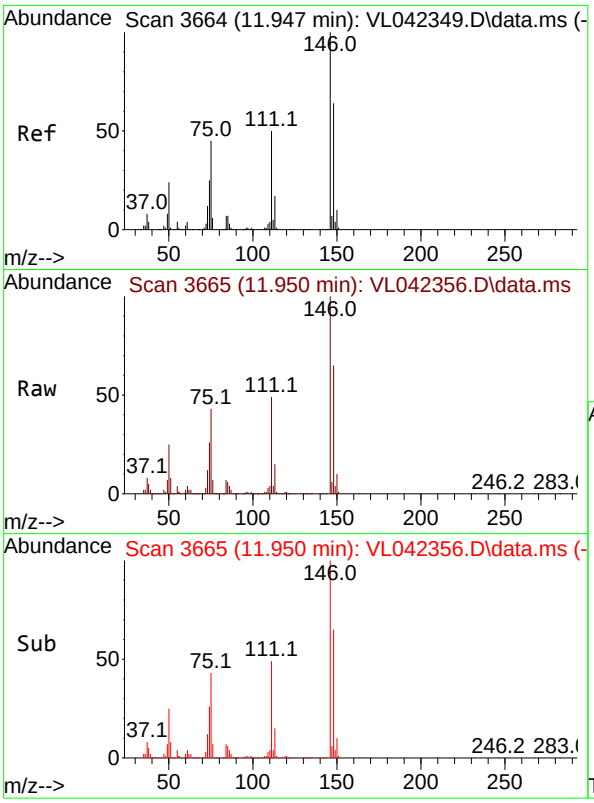


#76
1,4-Dichlorobenzene
Concen: 9.210 ppbv
RT: 11.671 min Scan# 3579
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

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



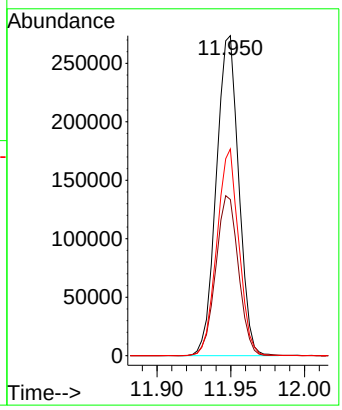


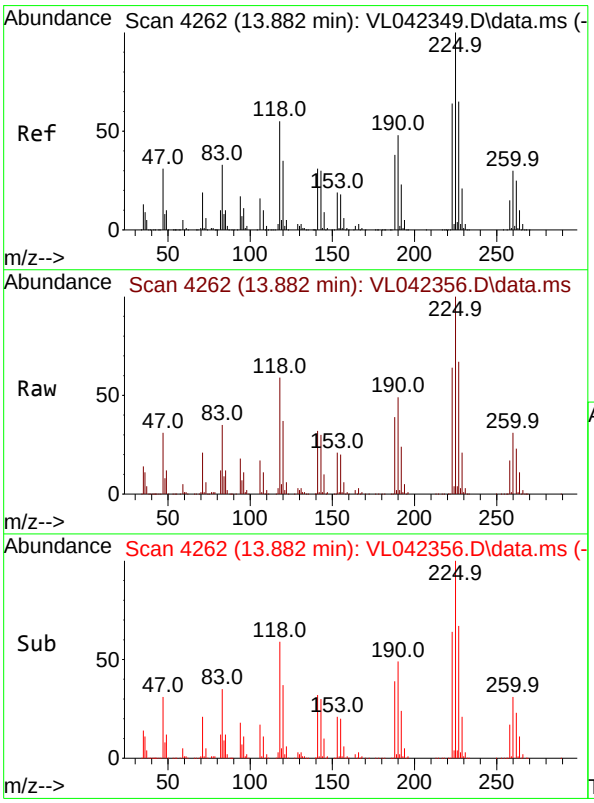
#77
1,2-Dichlorobenzene
Concen: 9.251 ppbv
RT: 11.950 min Scan# 3(
Delta R.T. 0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

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

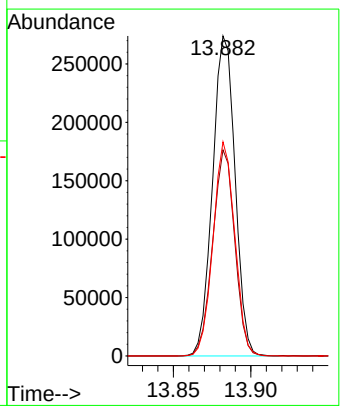


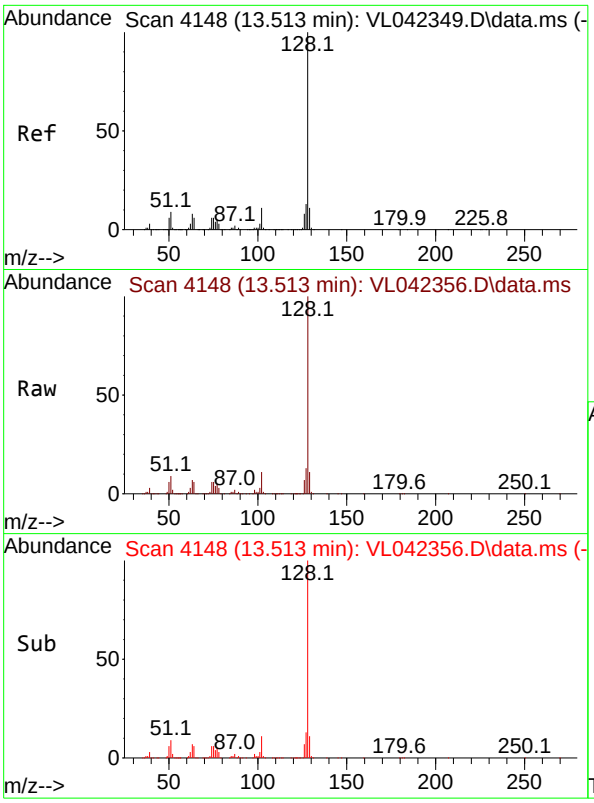


#78
Hexachloro-1,3-Butadiene
Concen: 8.771 ppbv
RT: 13.882 min Scan# 4262
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

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



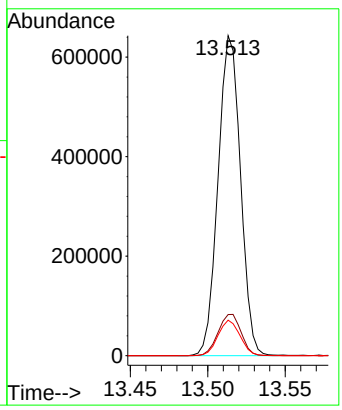


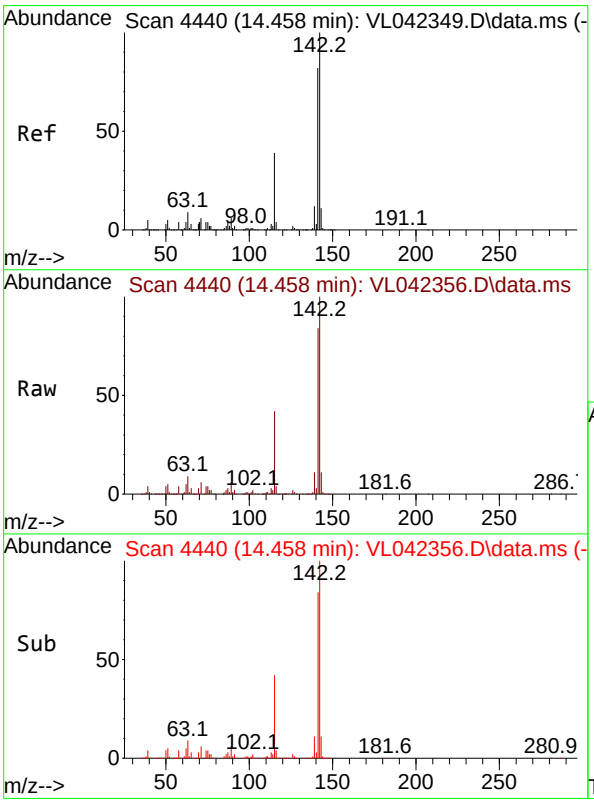
#79
Naphthalene
Concen: 8.750 ppbv
RT: 13.513 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

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

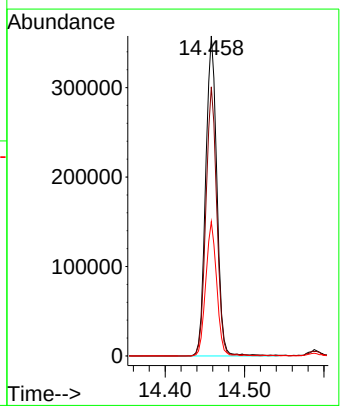


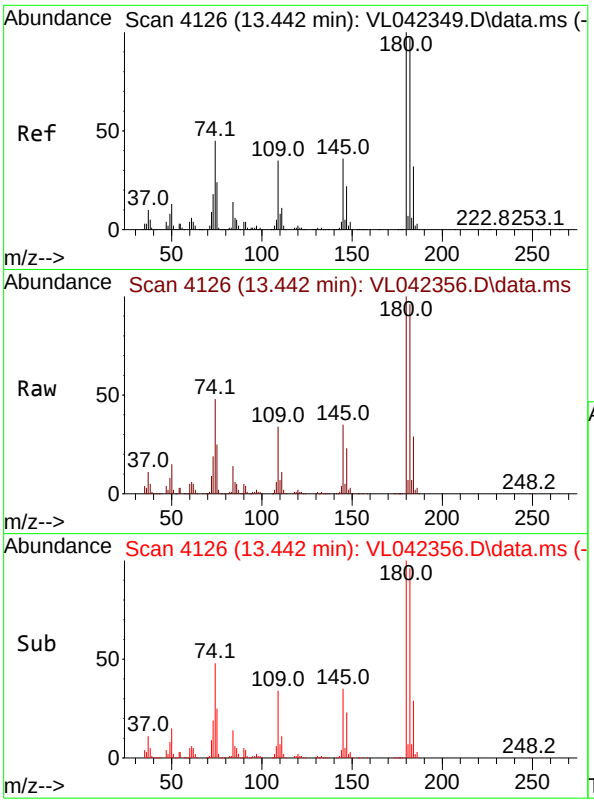


#80
Naphthalene,2-methyl-
Concen: 8.307 ppbv
RT: 14.458 min Scan# 4440
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

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



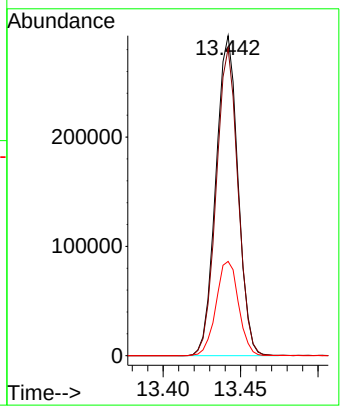


#81
1,2,4-Trichlorobenzene
Concen: 9.136 ppbv
RT: 13.442 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

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

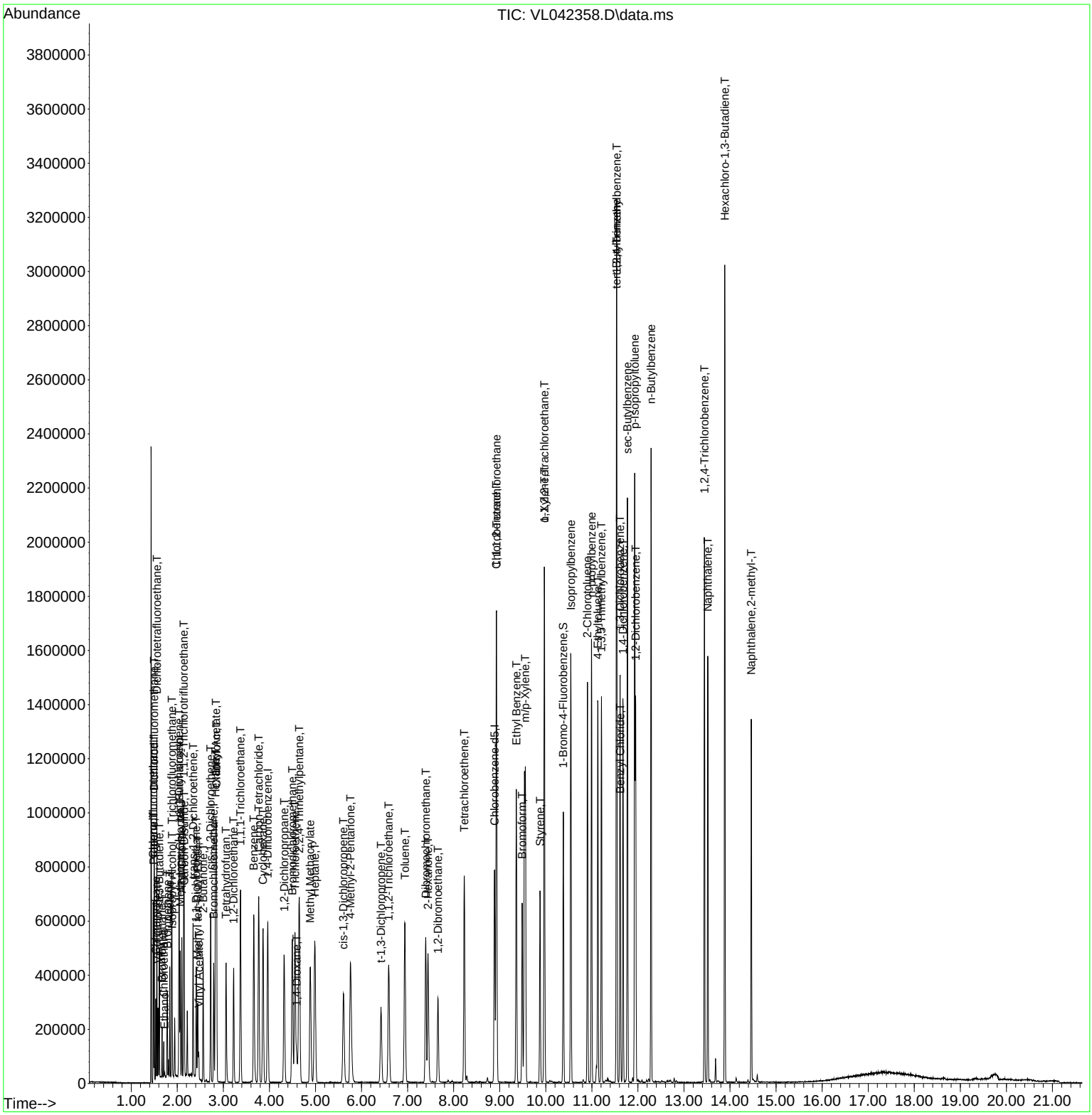
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) cis-1,3-Dichloropropene	5.606	75	216901	10.133	ppbv		91
47) 1,1,2-Trichloroethane	6.590	97	146547	10.161	ppbv		96
48) Dibromochloromethane	7.396	129	261470	10.261	ppbv		100
49) Bromoform	9.487	173	221372	9.936	ppbv		99
50) 4-Methyl-2-Pentanone	5.758	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

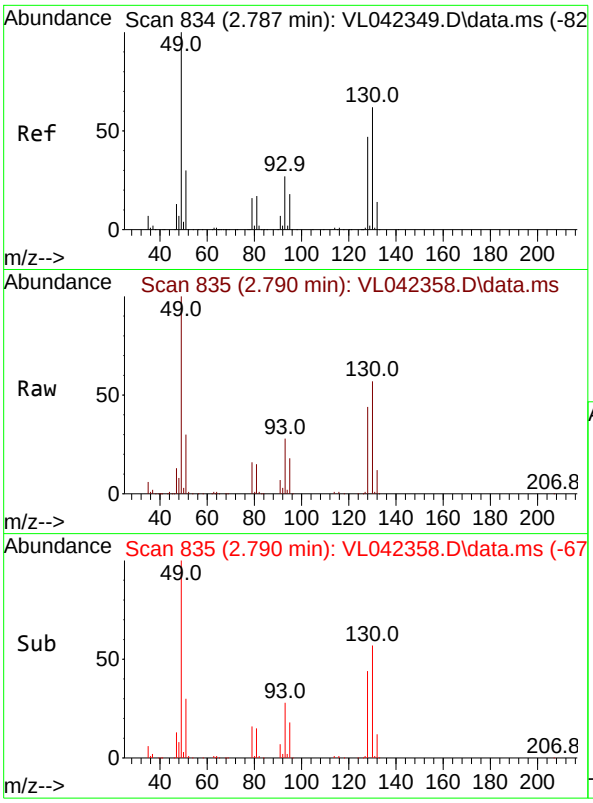
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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



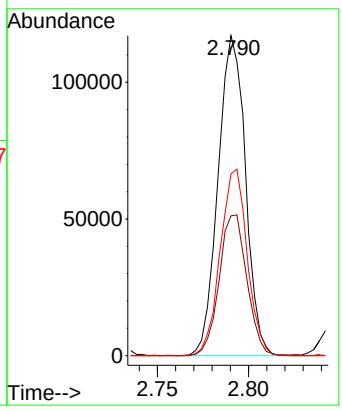


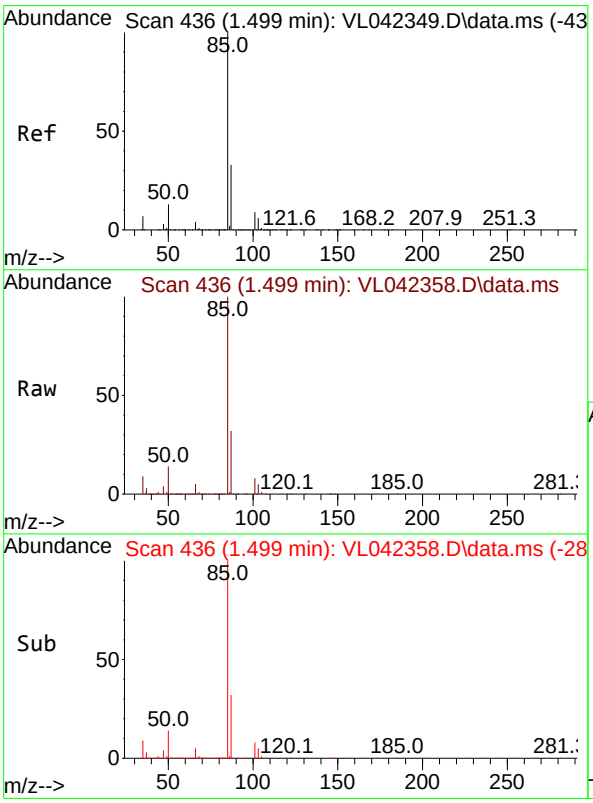
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

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

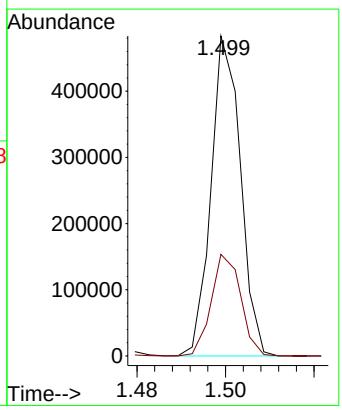


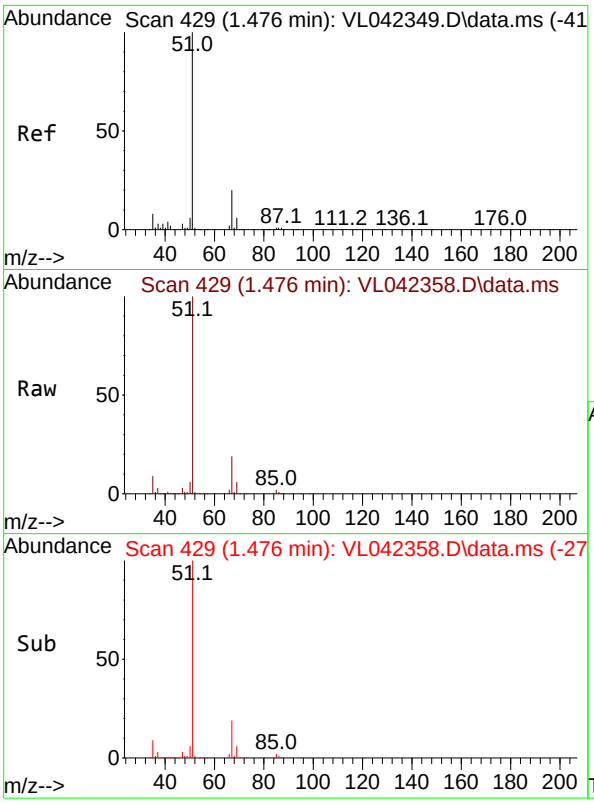


#2
Dichlorodifluoromethane
Concen: 10.337 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.000 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 85 Resp: 223505

Ion	Ratio	Lower	Upper
85	100		
87	31.7	26.6	39.8



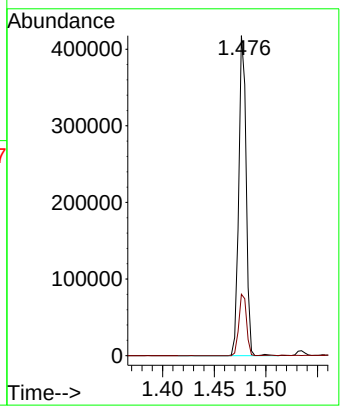


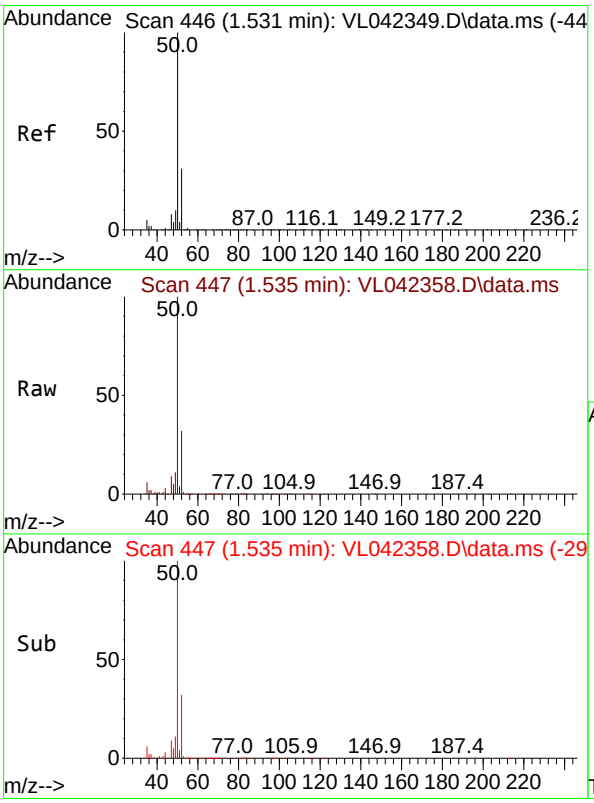
#3
Chlorodifluoromethane
Concen: 10.014 ppbv
RT: 1.476 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01

Tgt Ion: 51 Resp: 206172

Ion	Ratio	Lower	Upper
51	100		
67	20.2	16.2	24.4

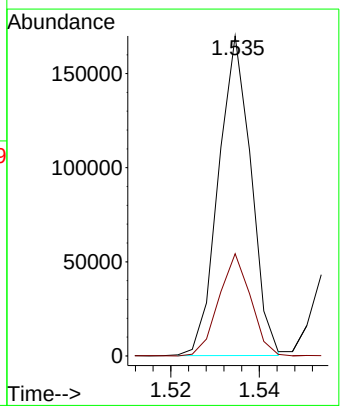


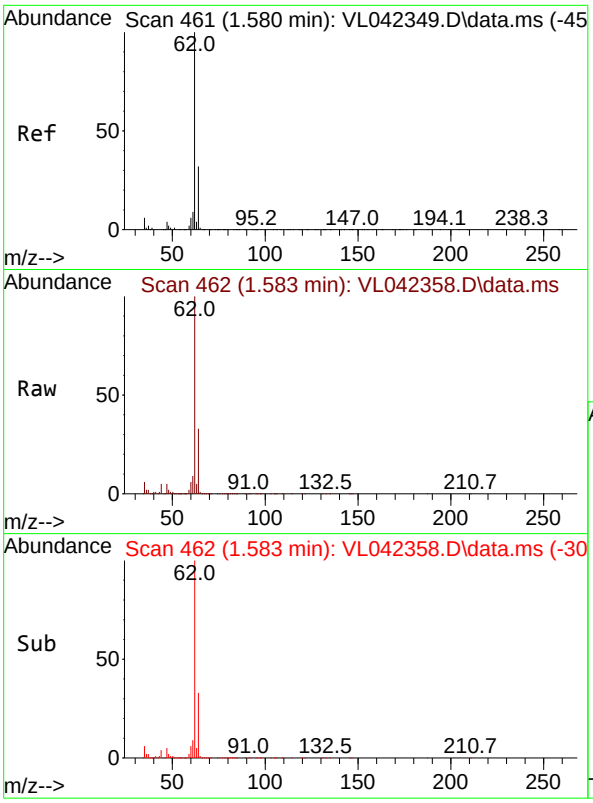


#4
Chloromethane
Concen: 10.130 ppbv
RT: 1.535 min Scan# 447
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 50 Resp: 86675

Ion	Ratio	Lower	Upper
50	100		
52	32.1	24.7	37.1



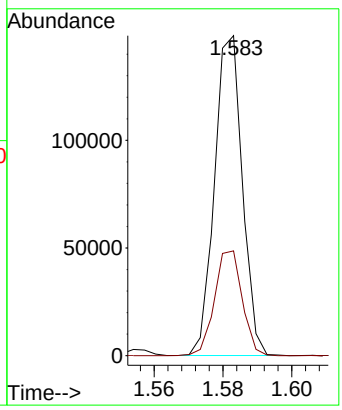


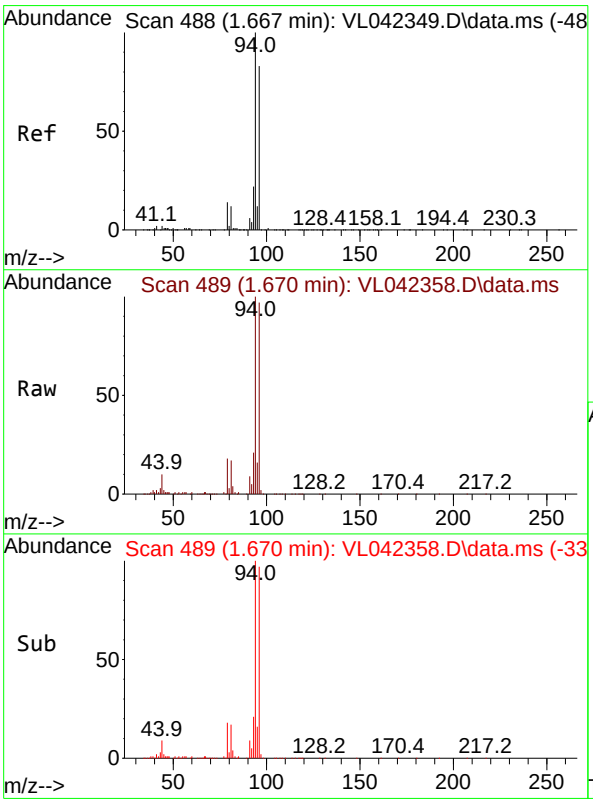
#5
Vinyl Chloride
Concen: 8.956 ppbv
RT: 1.583 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01

Tgt Ion: 62 Resp: 83419

Ion	Ratio	Lower	Upper
62	100		
64	32.8	25.4	38.0

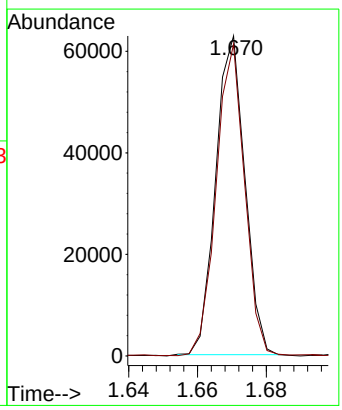


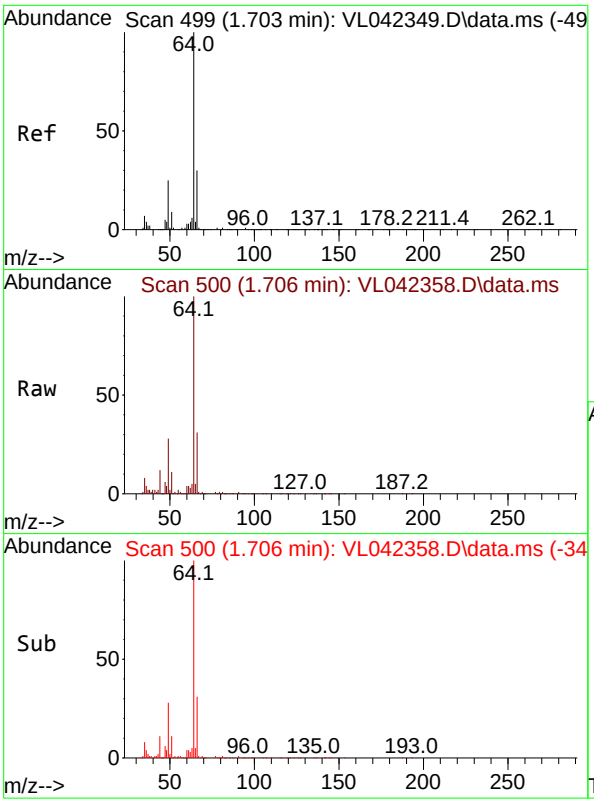


#6
Bromomethane
Concen: 9.235 ppbv
RT: 1.670 min Scan# 489
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 94 Resp: 36951

Ion	Ratio	Lower	Upper
94	100		
96	97.7	66.2	99.2



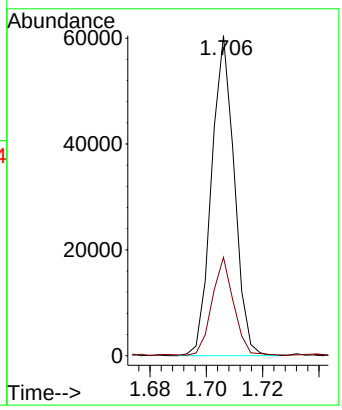


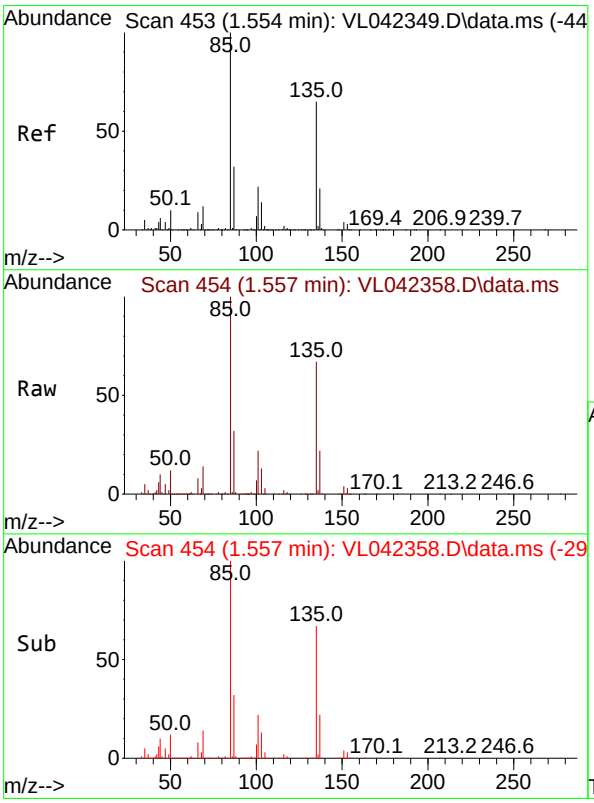
#7
Chloroethane
Concen: 10.075 ppbv
RT: 1.706 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01

Tgt Ion: 64 Resp: 33936

Ion	Ratio	Lower	Upper
64	100		
66	30.7	24.6	37.0

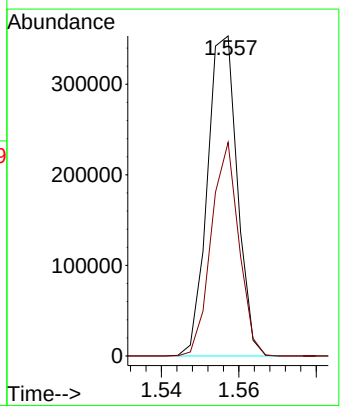


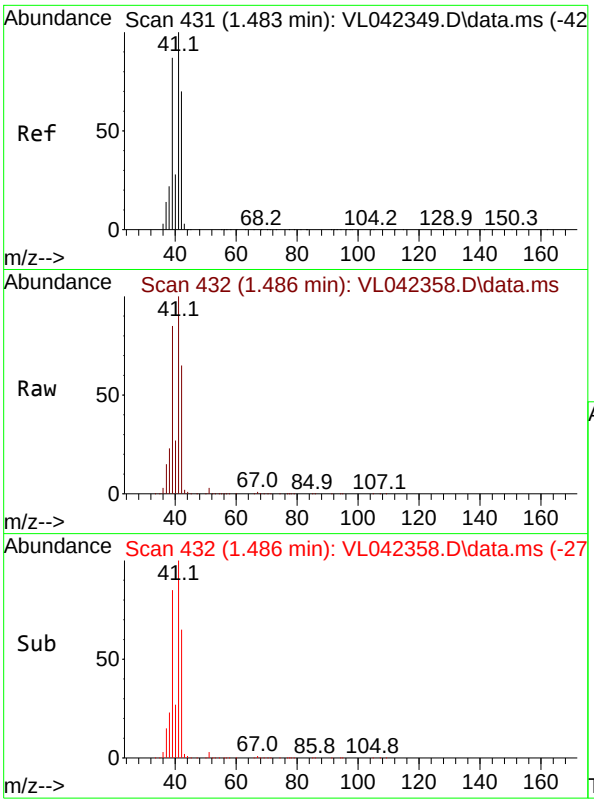


#8
Dichlorotetrafluoroethane
Concen: 10.231 ppbv
RT: 1.557 min Scan# 454
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 85 Resp: 189924

Ion	Ratio	Lower	Upper
85	100		
135	61.4	52.2	78.2



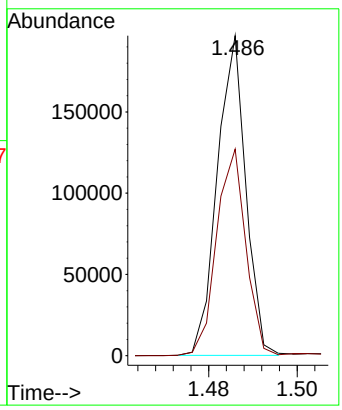


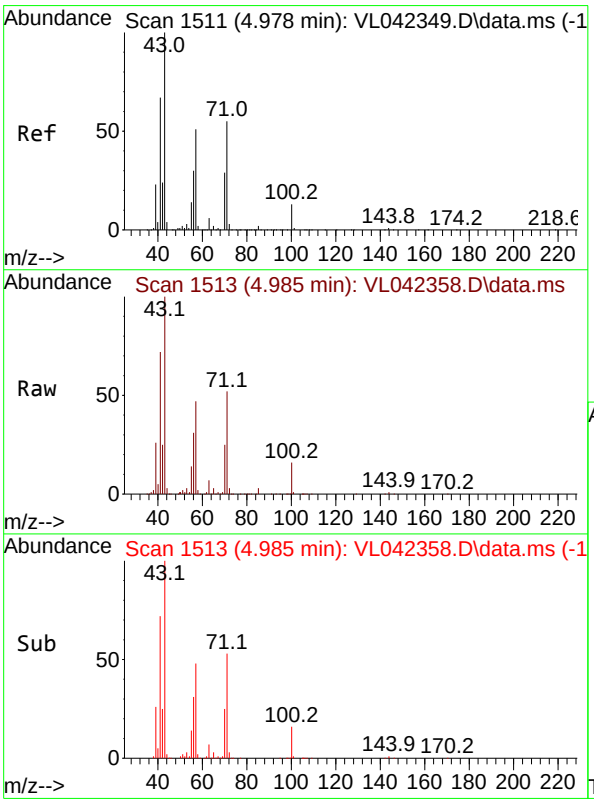
#9
Propene
Concen: 9.395 ppbv
RT: 1.486 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01

Tgt Ion: 41 Resp: 88088

Ion	Ratio	Lower	Upper
41	100		
42	68.4	56.2	84.4

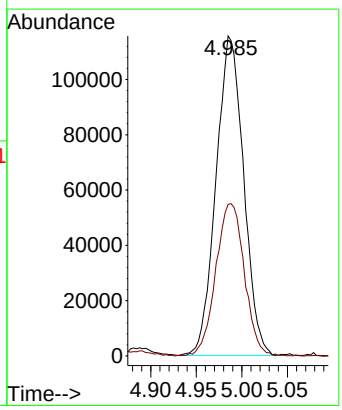


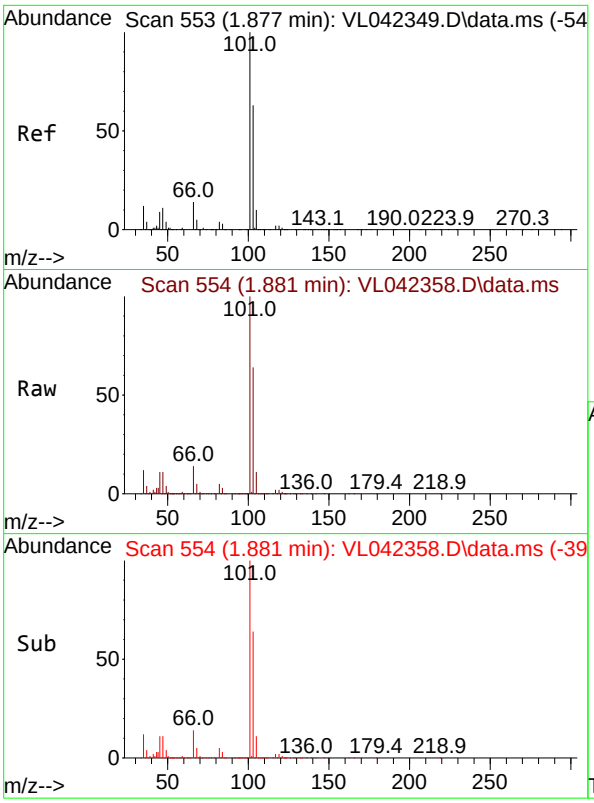


#10
Heptane
Concen: 9.244 ppbv
RT: 4.985 min Scan# 1513
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 43 Resp: 243501

Ion	Ratio	Lower	Upper
43	100		
57	49.4	39.9	59.9



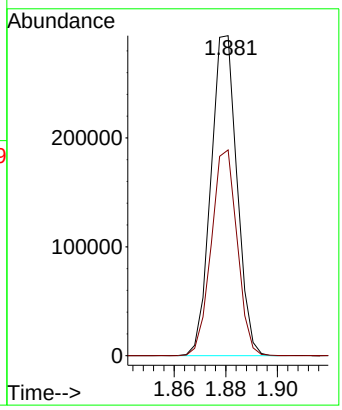


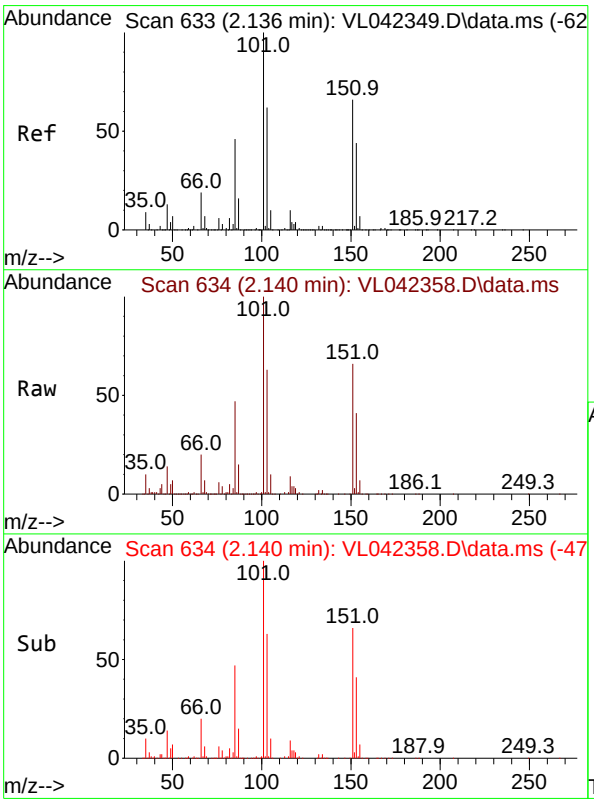
#11
Trichlorofluoromethane
Concen: 10.050 ppbv
RT: 1.881 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01

Tgt Ion:101 Resp: 206645

Ion	Ratio	Lower	Upper
101	100		
103	64.3	50.1	75.1

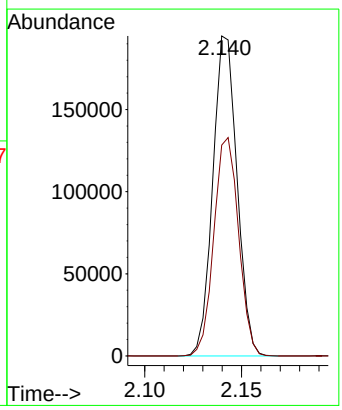


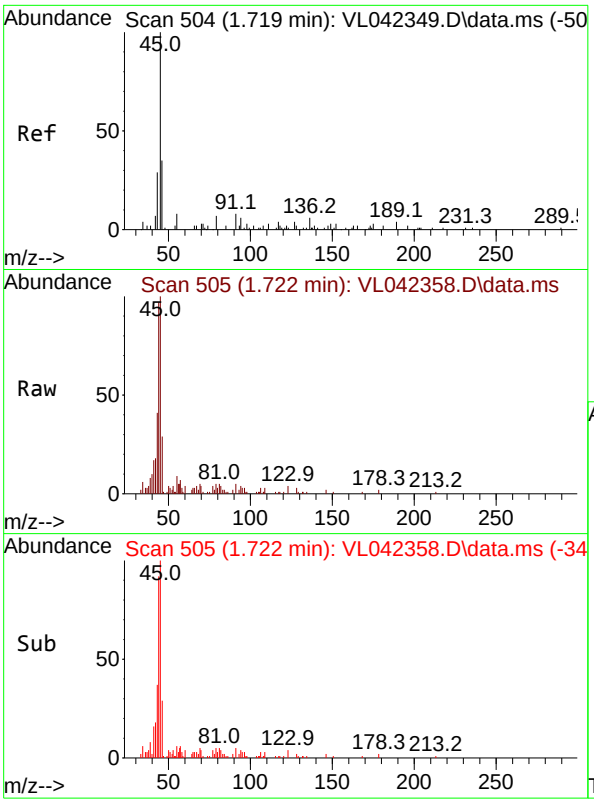


#12
1,1,2-Trichlorotrifluoroethane
Concen: 10.083 ppbv
RT: 2.140 min Scan# 634
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion:101 Resp: 169501

Ion	Ratio	Lower	Upper
101	100		
151	69.6	57.0	85.6



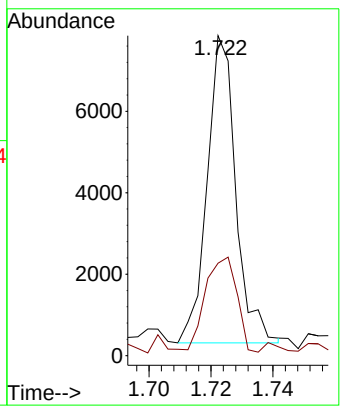


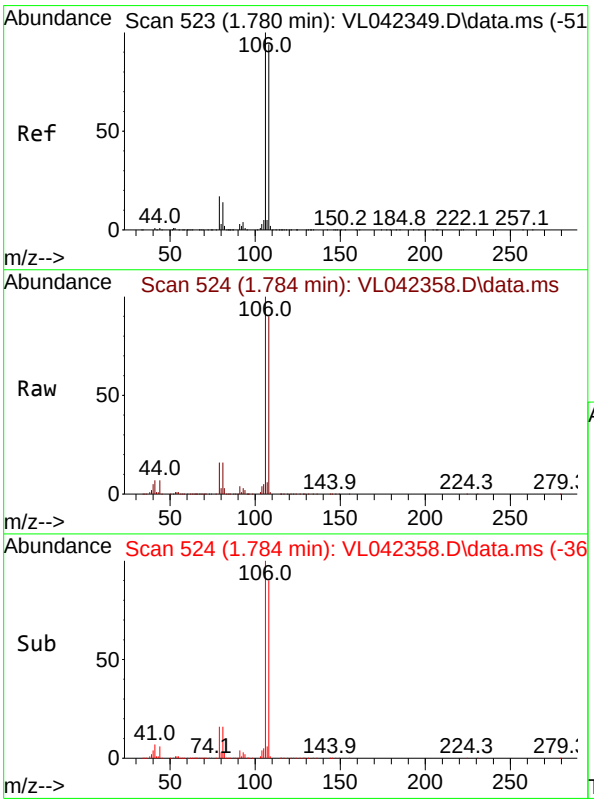
#13
Ethanol
Concen: 3.246 ppbv
RT: 1.722 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01

Tgt Ion: 45 Resp: 4837

Ion	Ratio	Lower	Upper
45	100		
46	45.8	21.9	87.7

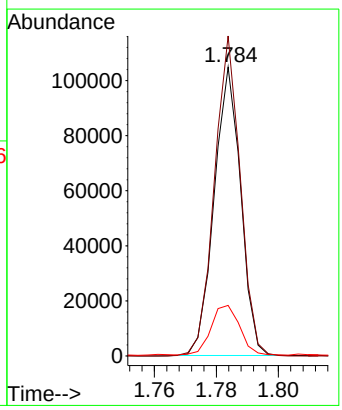


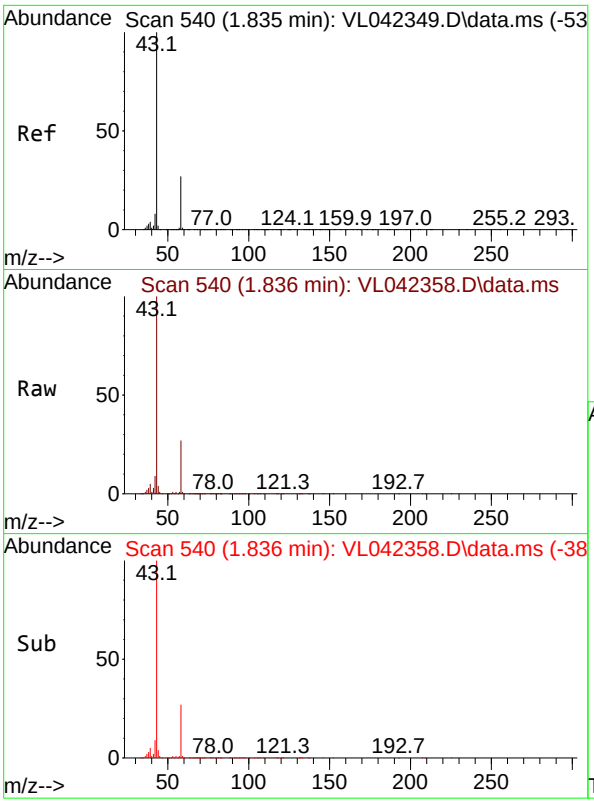


#14
Bromoethene
Concen: 9.818 ppbv
RT: 1.784 min Scan# 524
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

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



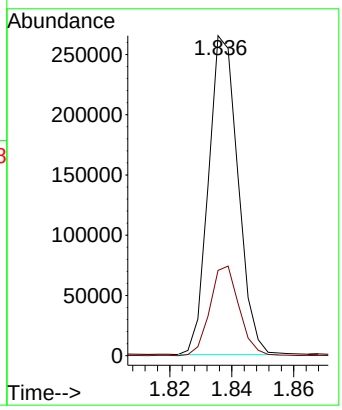


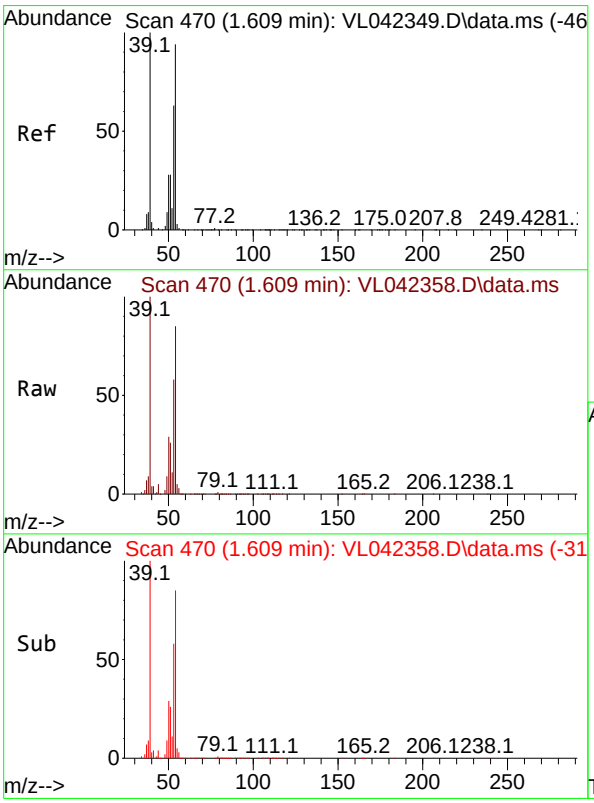
#15
Acetone
Concen: 8.743 ppbv
RT: 1.836 min Scan# 54
Delta R.T. 0.000 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01

Tgt Ion: 43 Resp: 175153

Ion	Ratio	Lower	Upper
43	100		
58	27.9	22.4	33.6

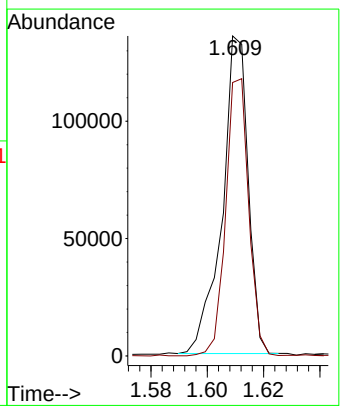


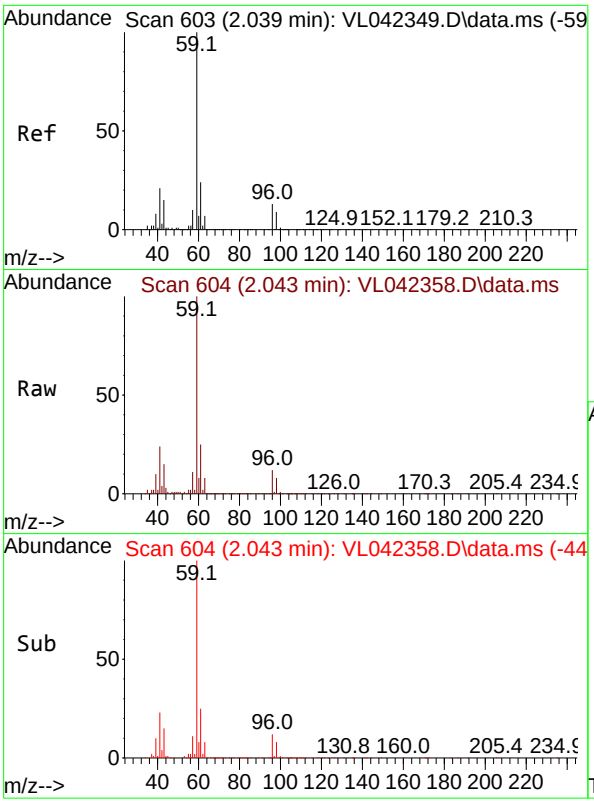


#16
1,3-Butadiene
Concen: 9.076 ppbv
RT: 1.609 min Scan# 470
Delta R.T. 0.000 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 39 Resp: 86965

Ion	Ratio	Lower	Upper
39	100		
54	77.9	64.9	97.3



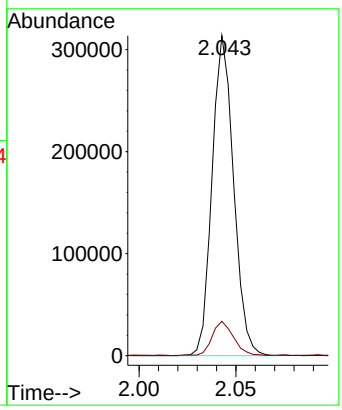


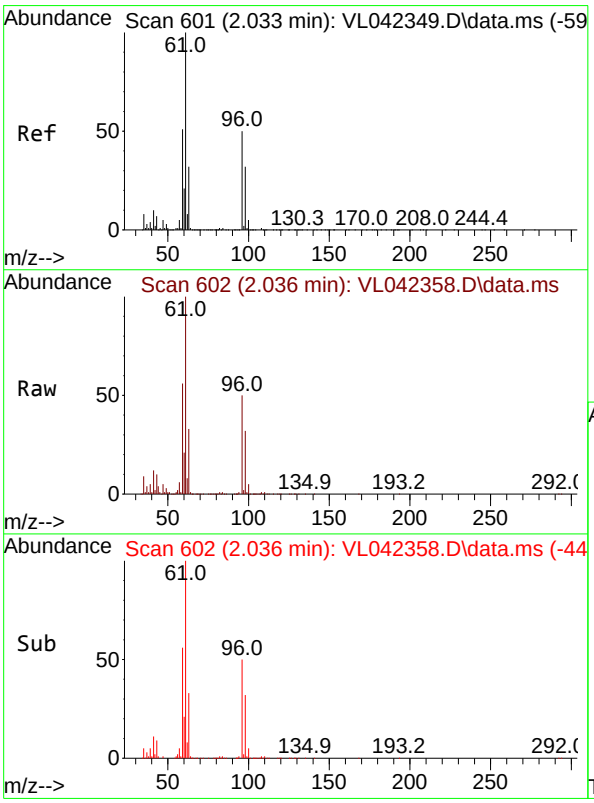
#17
tert-Butyl alcohol
Concen: 9.754 ppbv
RT: 2.043 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01

Tgt Ion: 59 Resp: 242154

Ion	Ratio	Lower	Upper
59	100		
57	10.9	8.7	13.1

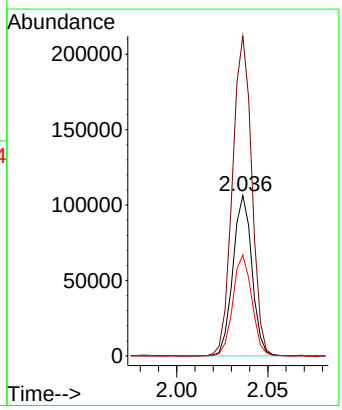


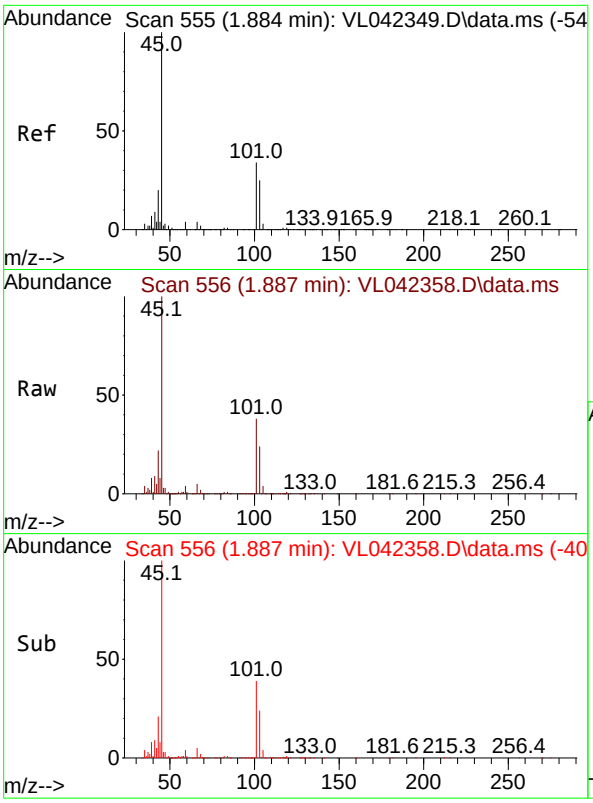


#18
1,1-Dichloroethene
Concen: 9.836 ppbv
RT: 2.036 min Scan# 602
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

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



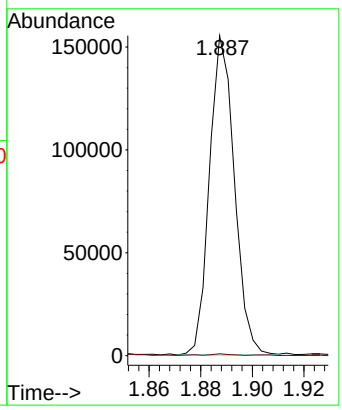


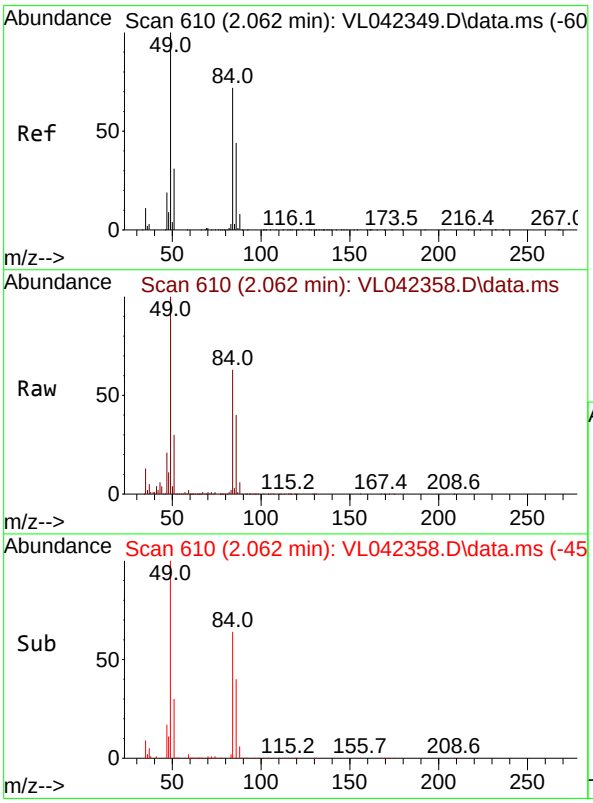
#19
Isopropyl Alcohol
Concen: 9.356 ppbv
RT: 1.887 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01

Tgt Ion: 45 Resp: 104123

Ion	Ratio	Lower	Upper
45	100		
58	46.9	34.5	51.7

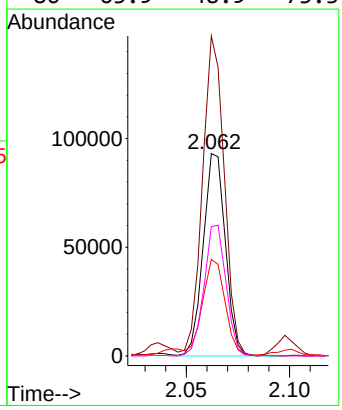


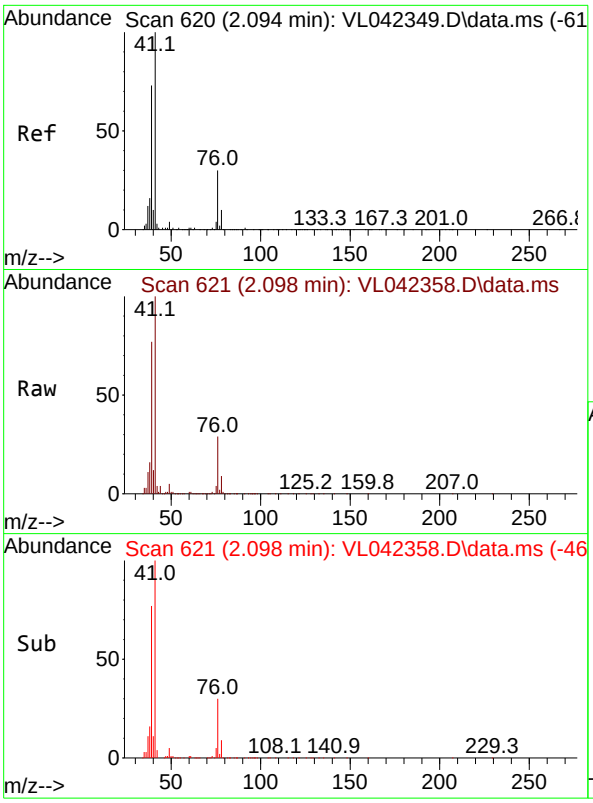


#20
Methylene Chloride
Concen: 8.865 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.000 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

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



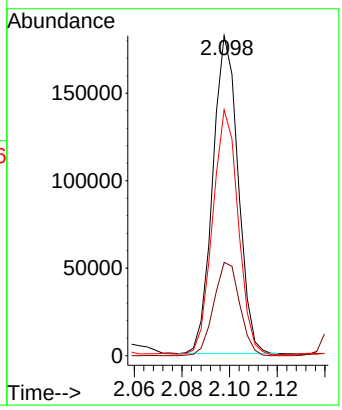


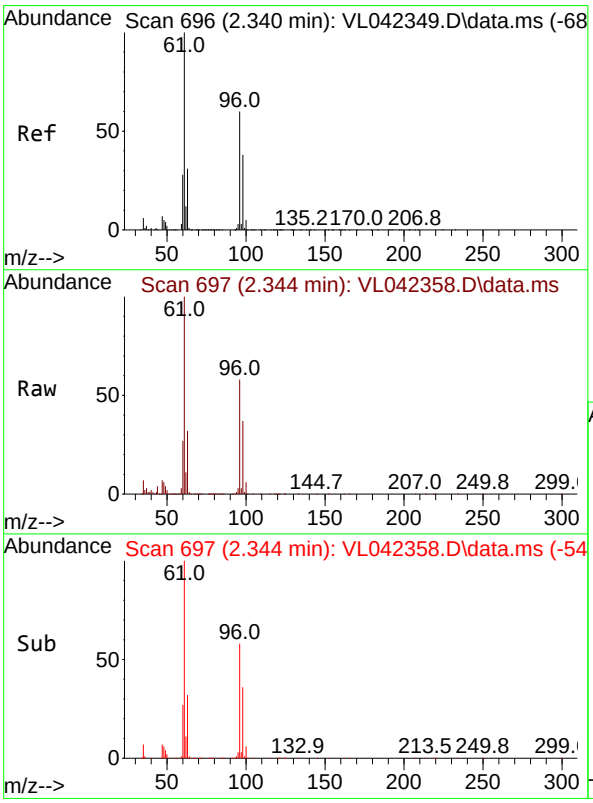
#21
Allyl Chloride
Concen: 9.704 ppbv
RT: 2.098 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

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

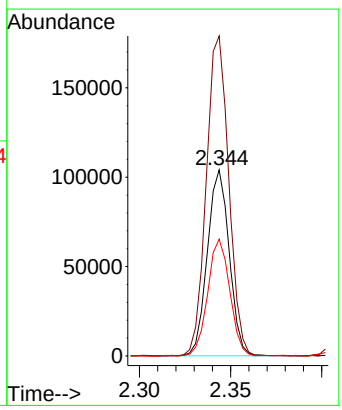


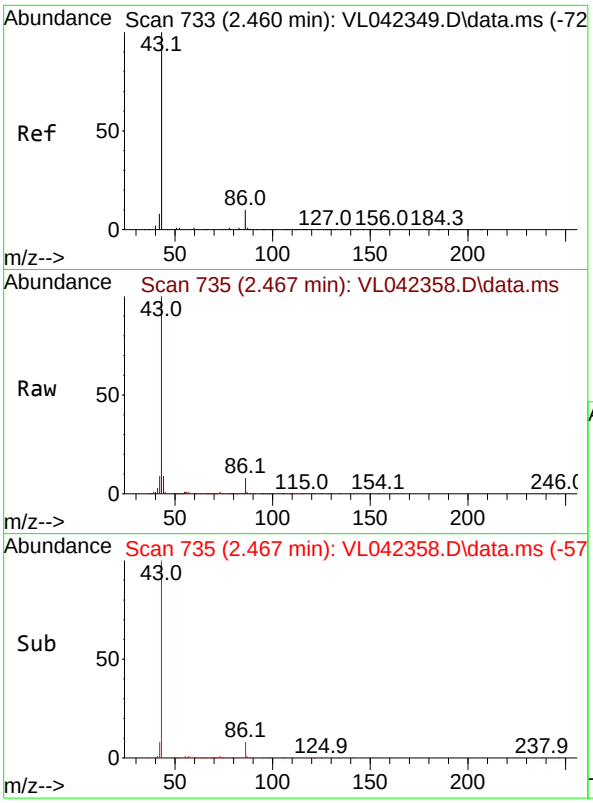


#22
trans-1,2-Dichloroethene
Concen: 9.653 ppbv
RT: 2.344 min Scan# 697
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

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



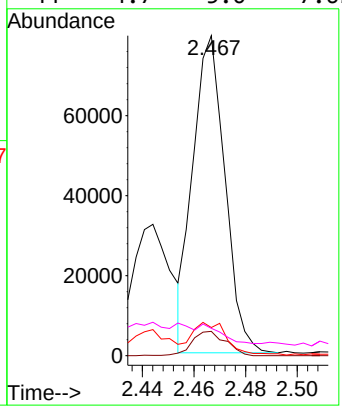


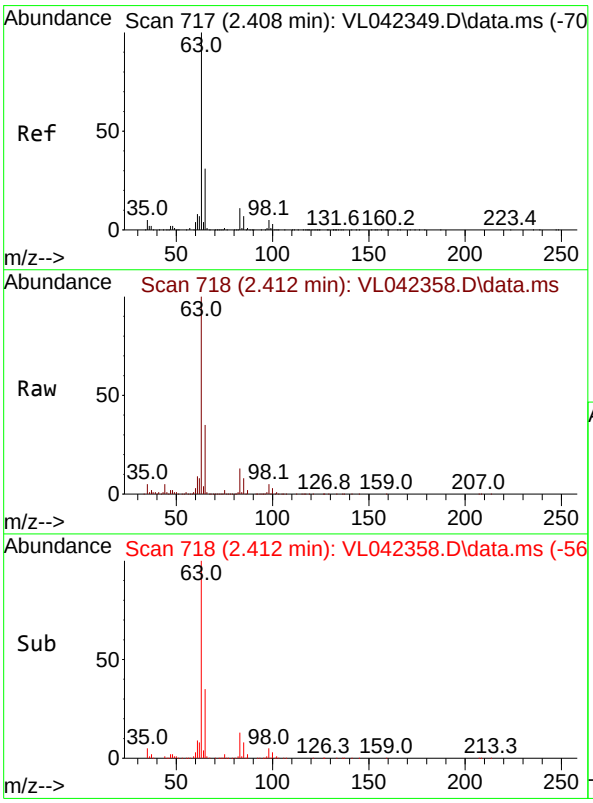
#23
Vinyl Acetate
Concen: 8.427 ppbv
RT: 2.467 min Scan# 7
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

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#

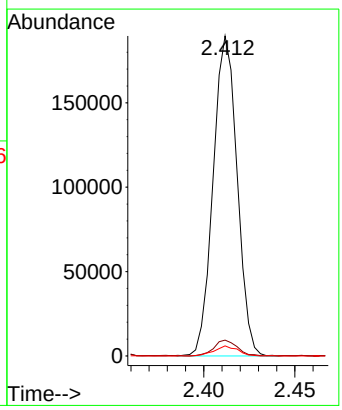


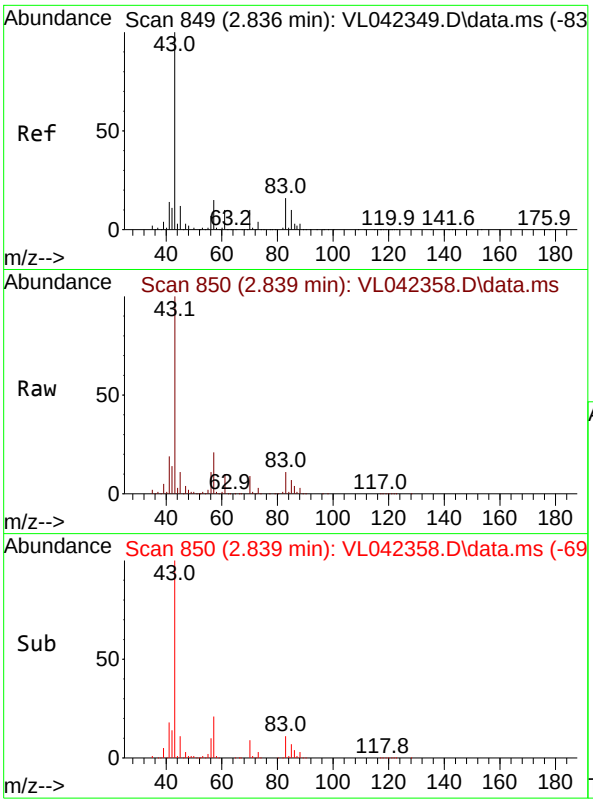


#24
1,1-Dichloroethane
Concen: 10.199 ppbv
RT: 2.412 min Scan# 718
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

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



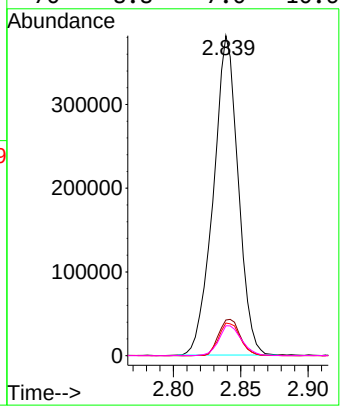


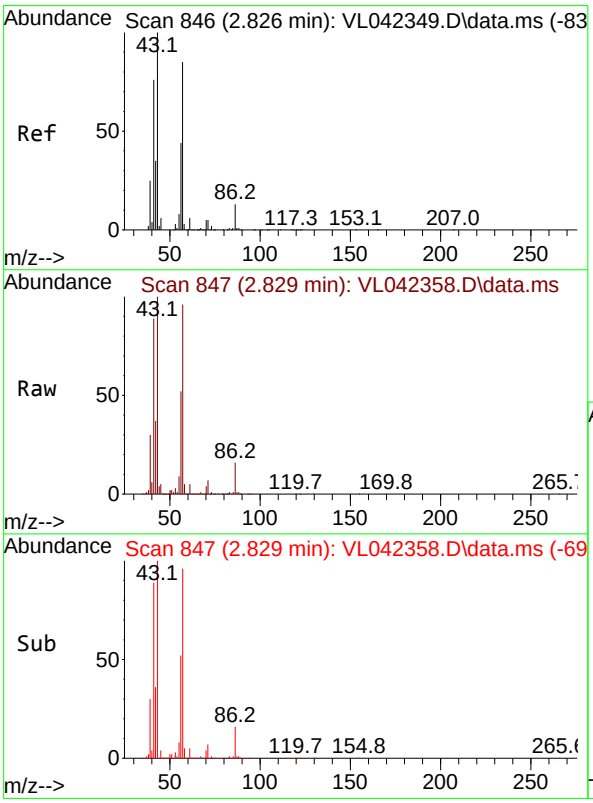
#25
Ethyl Acetate
Concen: 9.894 ppbv
RT: 2.839 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

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

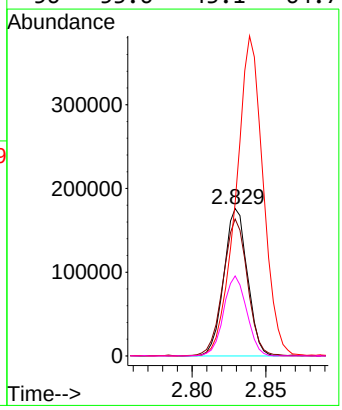


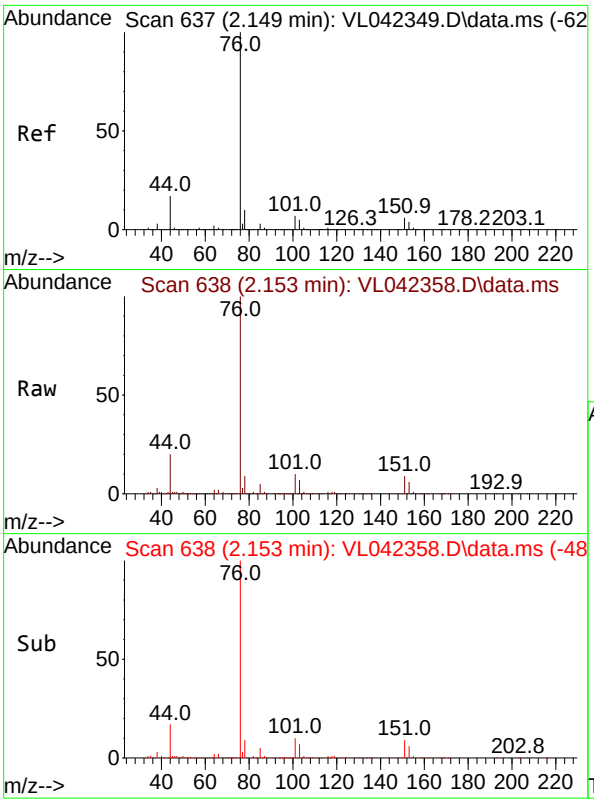


#26
Hexane
Concen: 9.761 ppbv
RT: 2.829 min Scan# 847
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

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



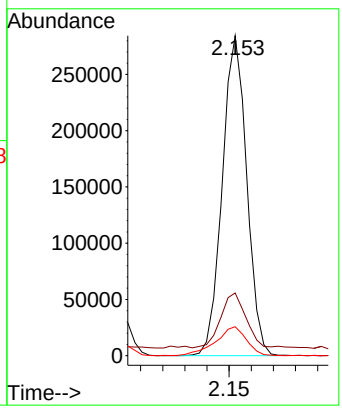


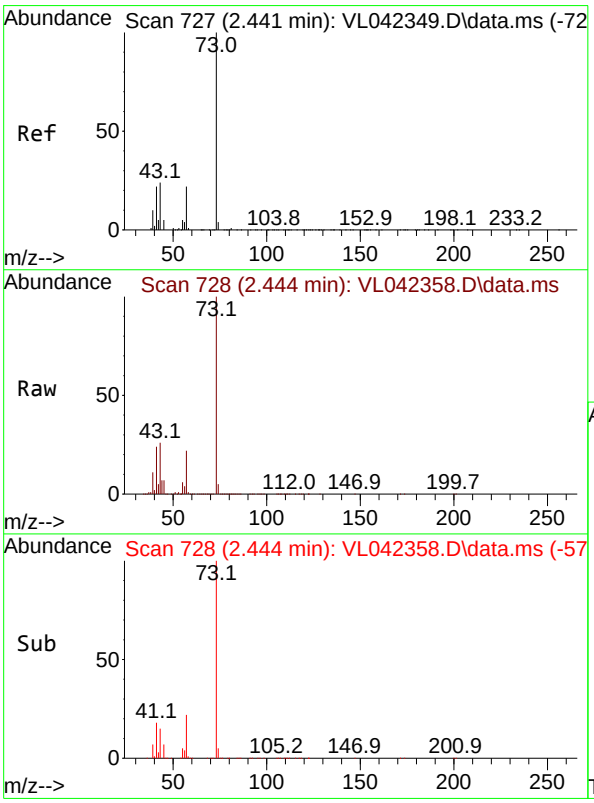
#27
Carbon Disulfide
Concen: 10.202 ppbv
RT: 2.153 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

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

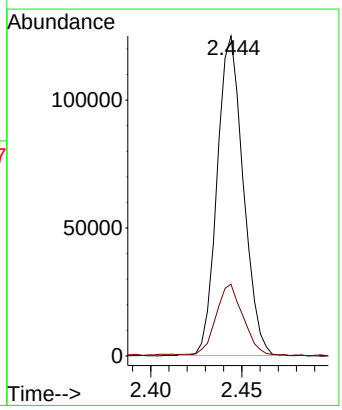


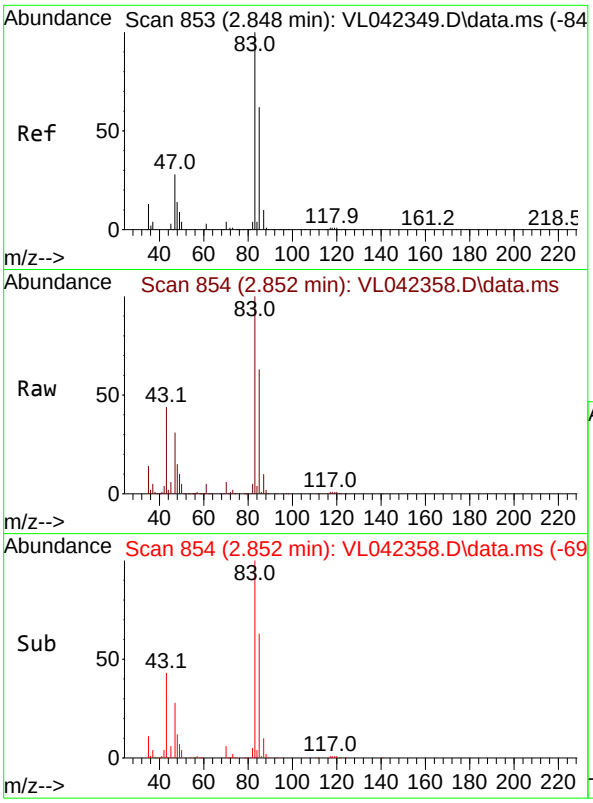


#28
Methyl tert-Butyl Ether
Concen: 9.510 ppbv
RT: 2.444 min Scan# 728
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 73 Resp: 124554

Ion	Ratio	Lower	Upper
73	100		
57	24.5	21.3	31.9



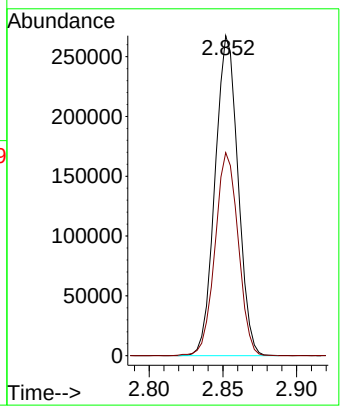


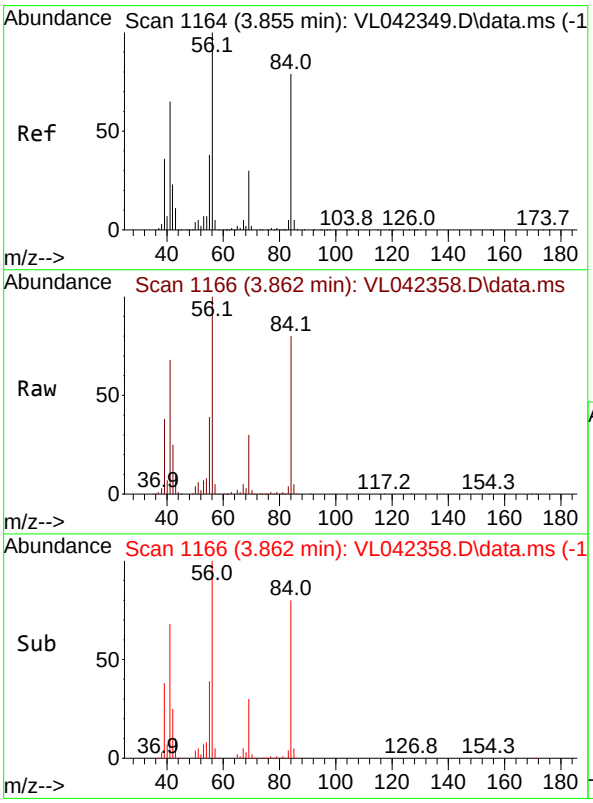
#29
Chloroform
Concen: 10.239 ppbv
RT: 2.852 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01

Tgt Ion: 83 Resp: 289294

Ion	Ratio	Lower	Upper
83	100		
85	63.4	50.0	75.0

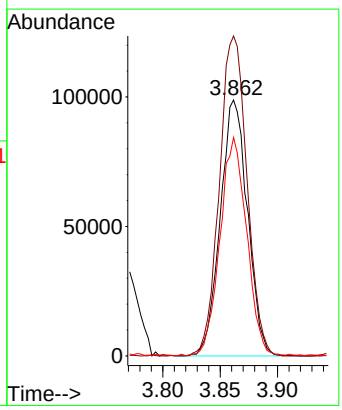


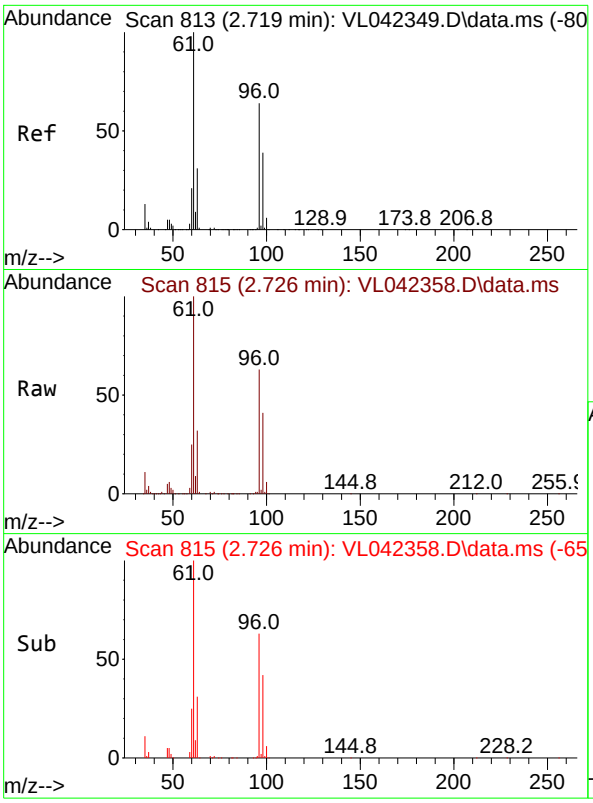


#30
Cyclohexane
Concen: 10.088 ppbv
RT: 3.862 min Scan# 1166
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

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



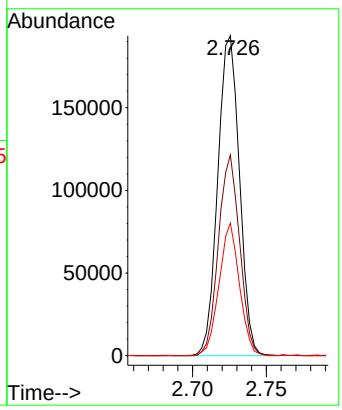


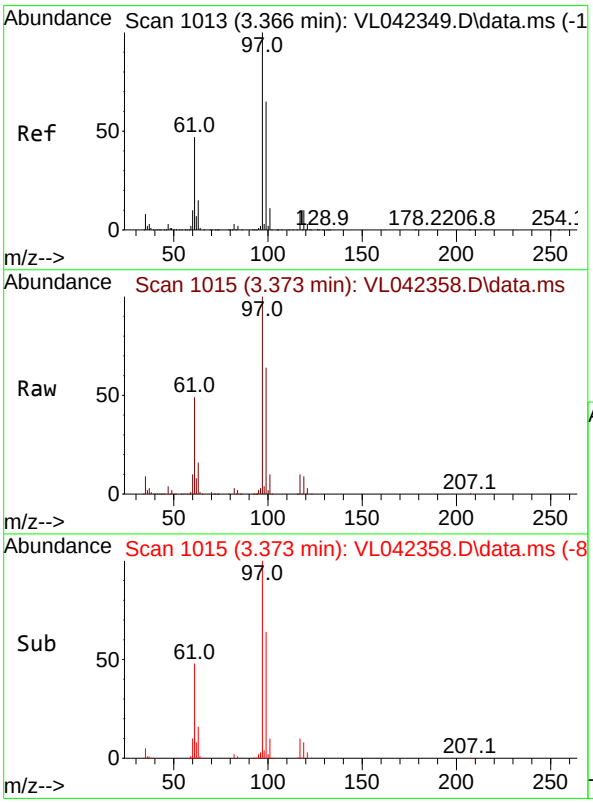
#31
cis-1,2-Dichloroethene
Concen: 10.424 ppbv
RT: 2.726 min Scan# 8
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

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

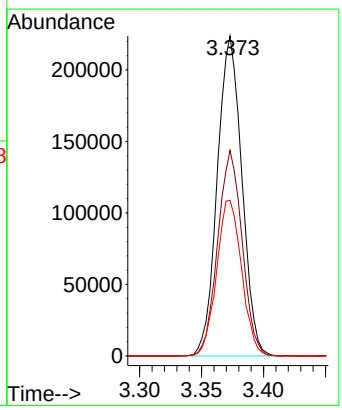


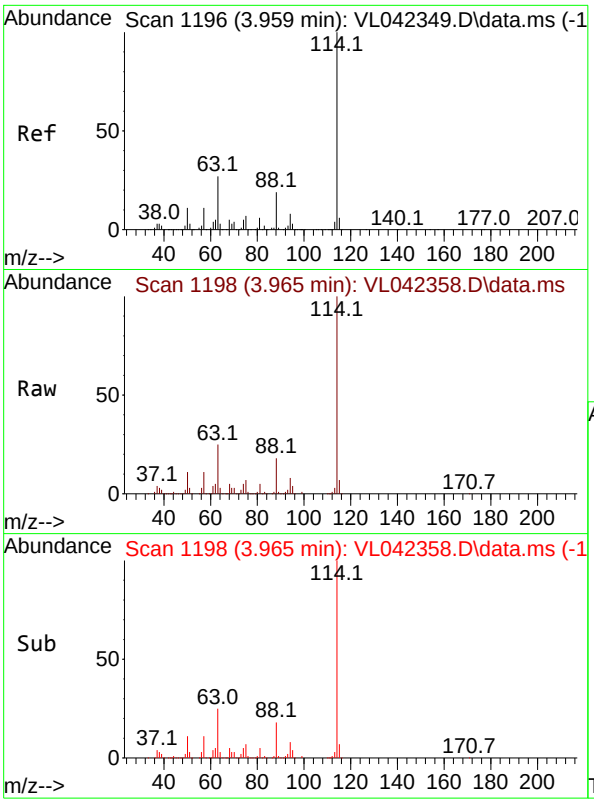


#32
1,1,1-Trichloroethane
Concen: 9.729 ppbv
RT: 3.373 min Scan# 1015
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

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



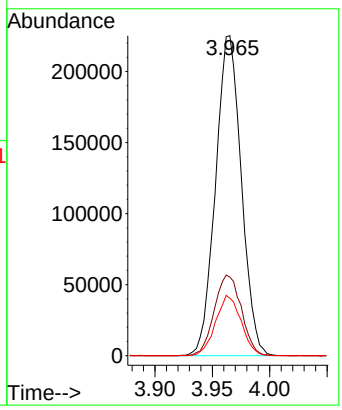


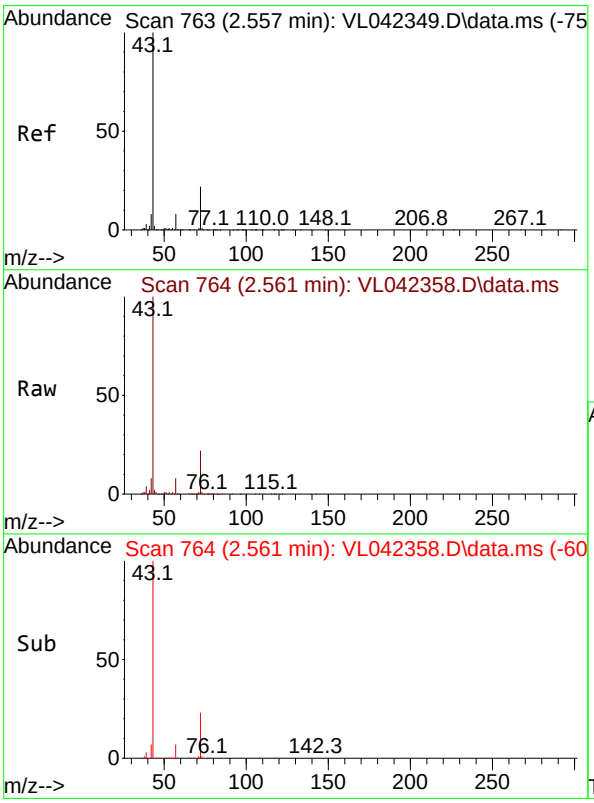
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.965 min Scan# 11
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

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

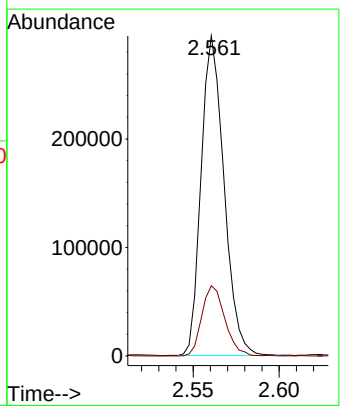


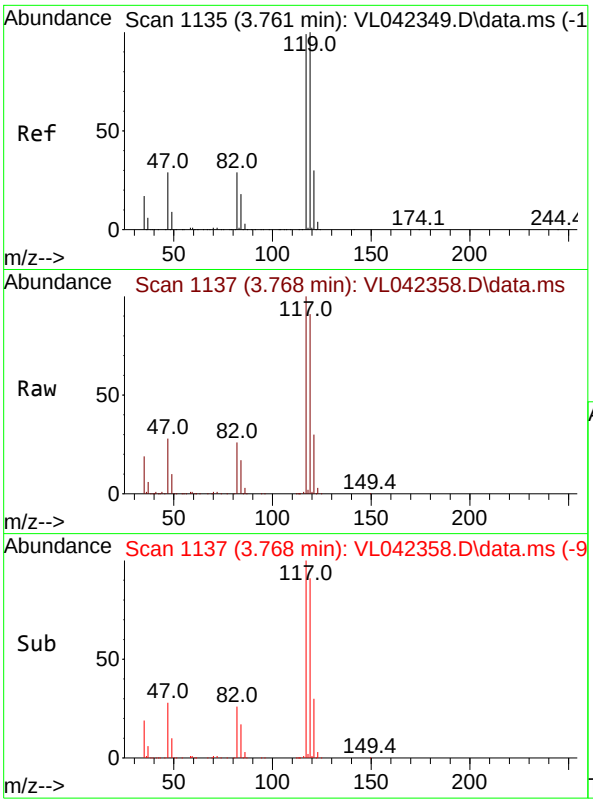


#34
2-Butanone
Concen: 9.787 ppbv
RT: 2.561 min Scan# 764
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 43 Resp: 272600

Ion	Ratio	Lower	Upper
43	100		
72	22.2	18.2	27.2



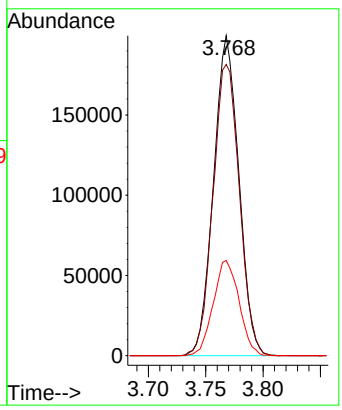


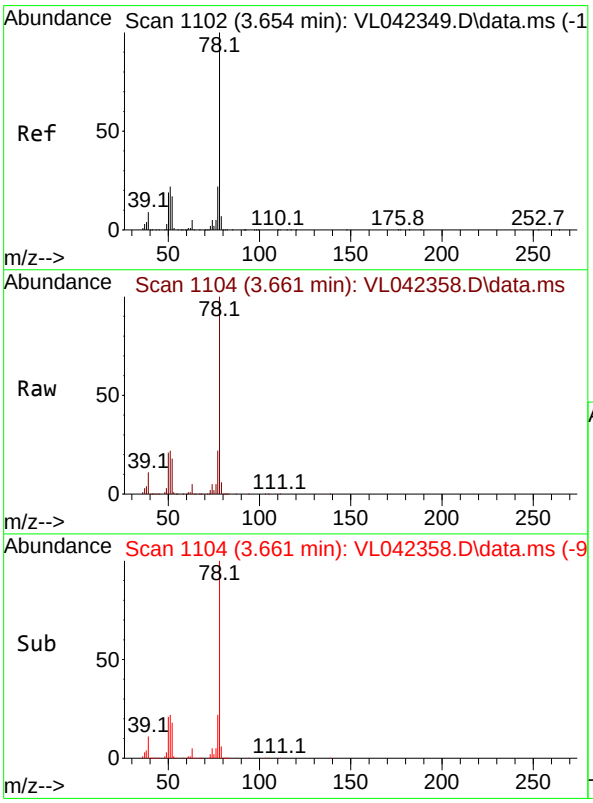
#35
Carbon Tetrachloride
Concen: 9.576 ppbv
RT: 3.768 min Scan# 1
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

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

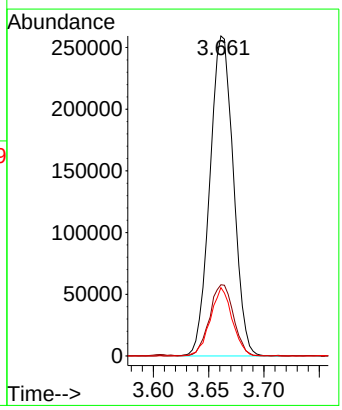


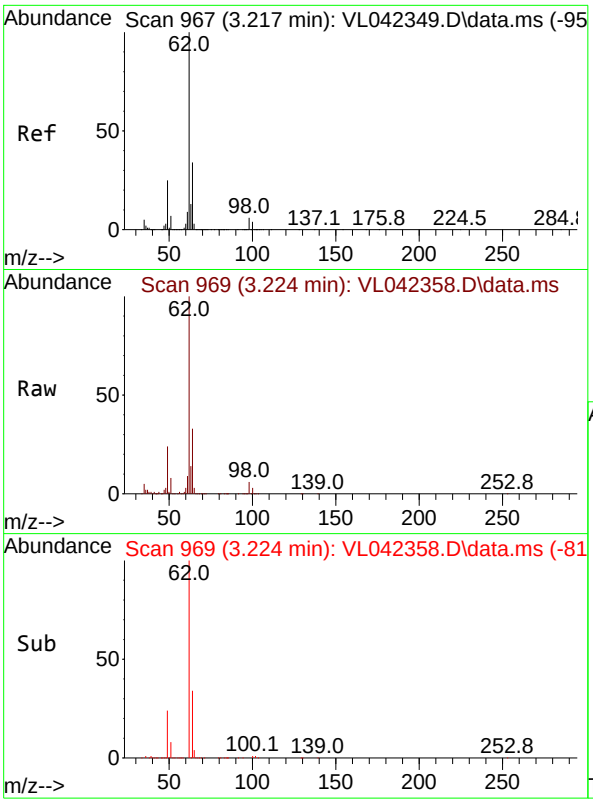


#36
Benzene
Concen: 10.088 ppbv
RT: 3.661 min Scan# 1104
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

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



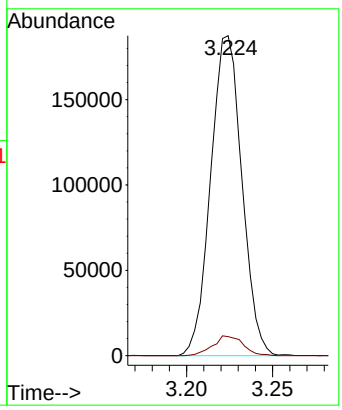


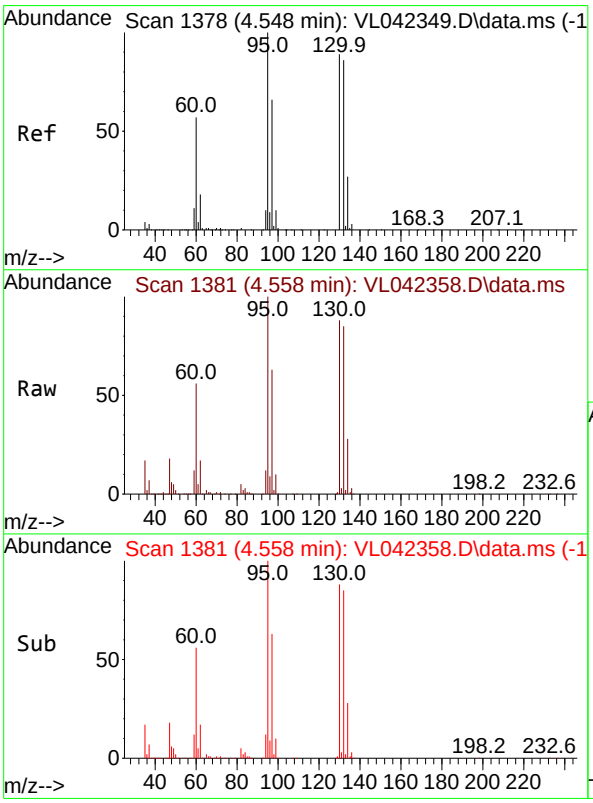
#37
1,2-Dichloroethane
Concen: 10.377 ppbv
RT: 3.224 min Scan# 9
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01

Tgt Ion: 62 Resp: 236611

Ion	Ratio	Lower	Upper
62	100		
98	6.0	5.1	7.7

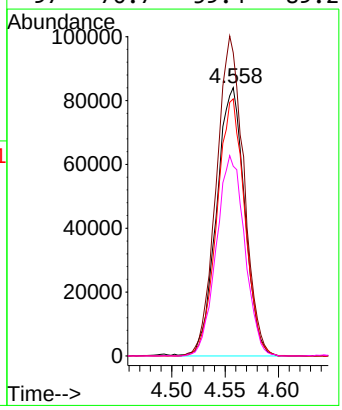


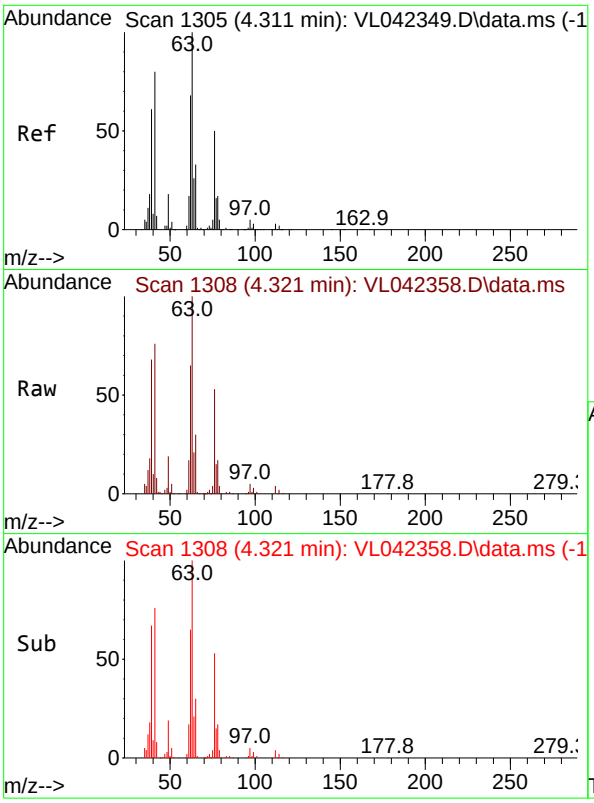


#38
Trichloroethene
Concen: 9.251 ppbv
RT: 4.558 min Scan# 1381
Delta R.T. 0.010 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

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



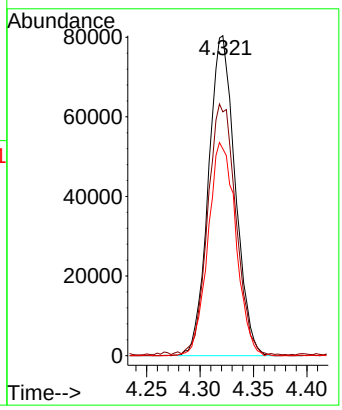


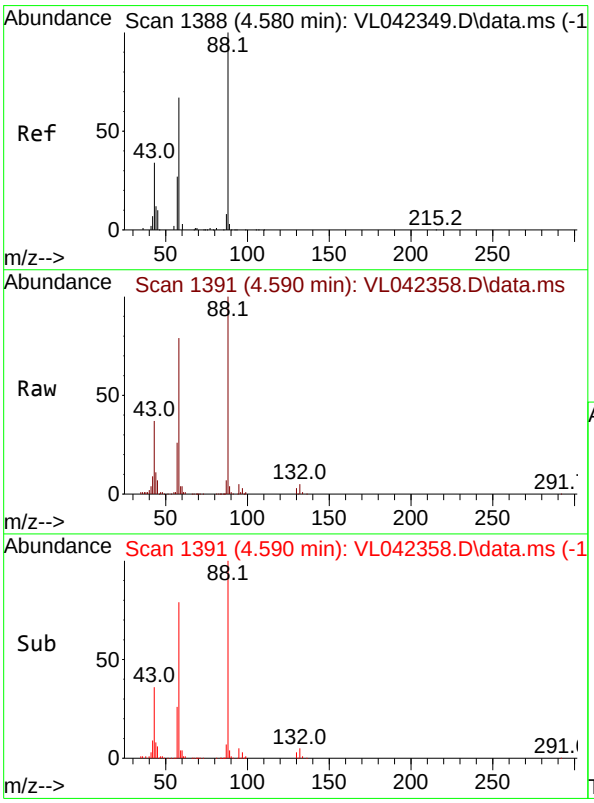
#39
1,2-Dichloropropane
Concen: 9.866 ppbv
RT: 4.321 min Scan# 1
Delta R.T. 0.010 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

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

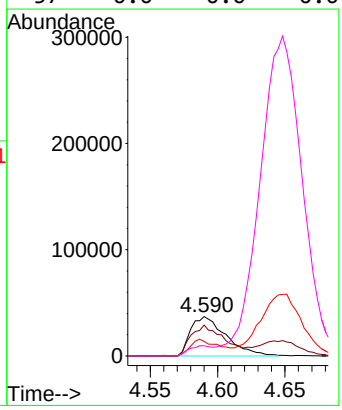


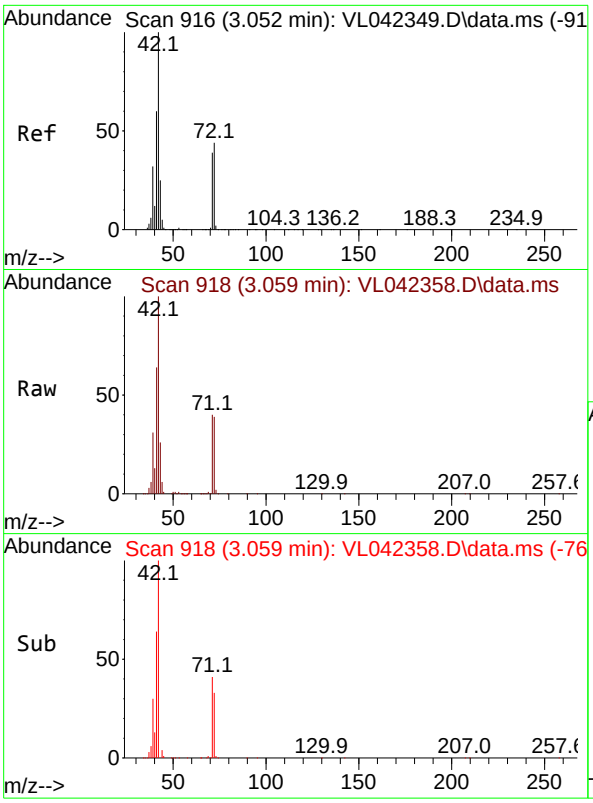


#40
1,4-Dioxane
Concen: 8.716 ppbv
RT: 4.590 min Scan# 1391
Delta R.T. 0.010 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

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



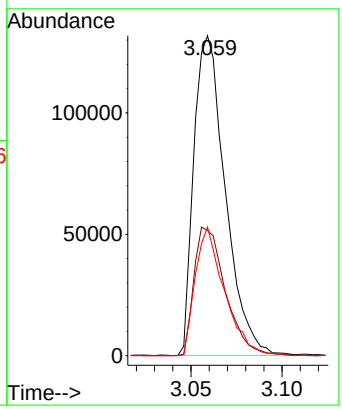


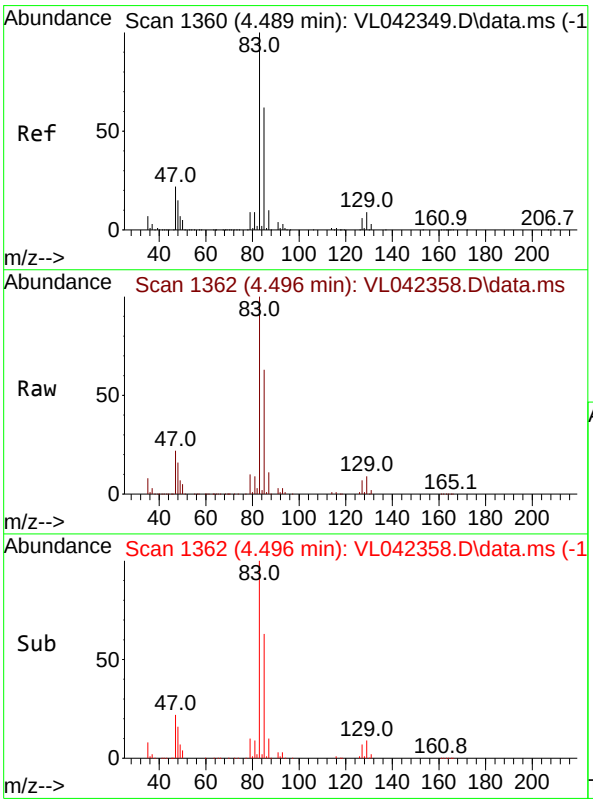
#41
Tetrahydrofuran
Concen: 9.715 ppbv
RT: 3.059 min Scan# 91
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

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

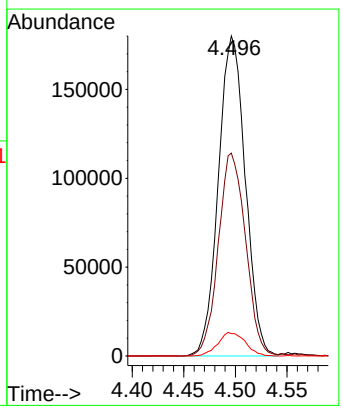


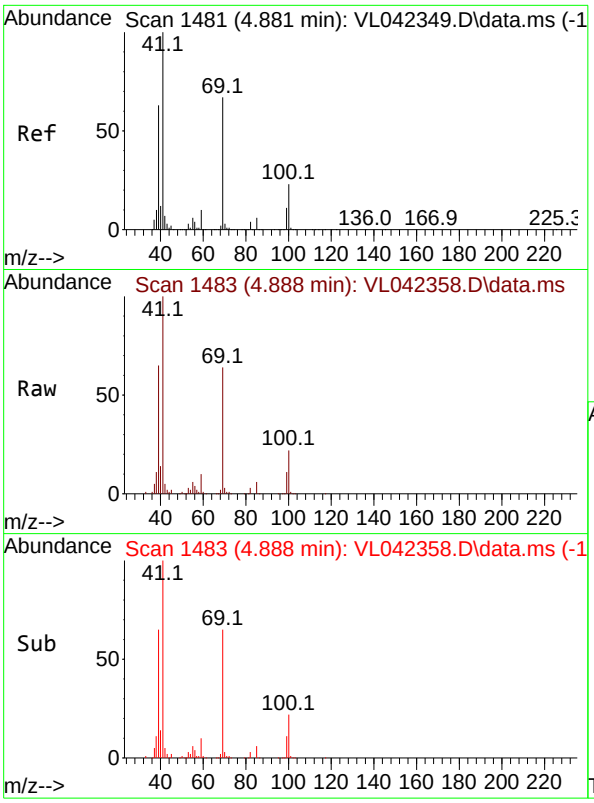


#42
Bromodichloromethane
Concen: 10.326 ppbv
RT: 4.496 min Scan# 1362
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

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



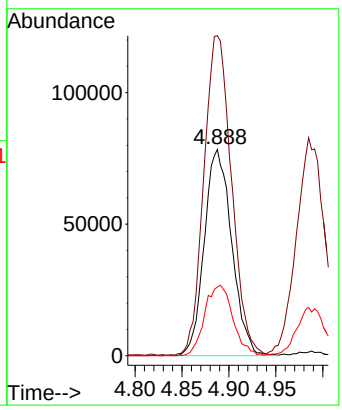


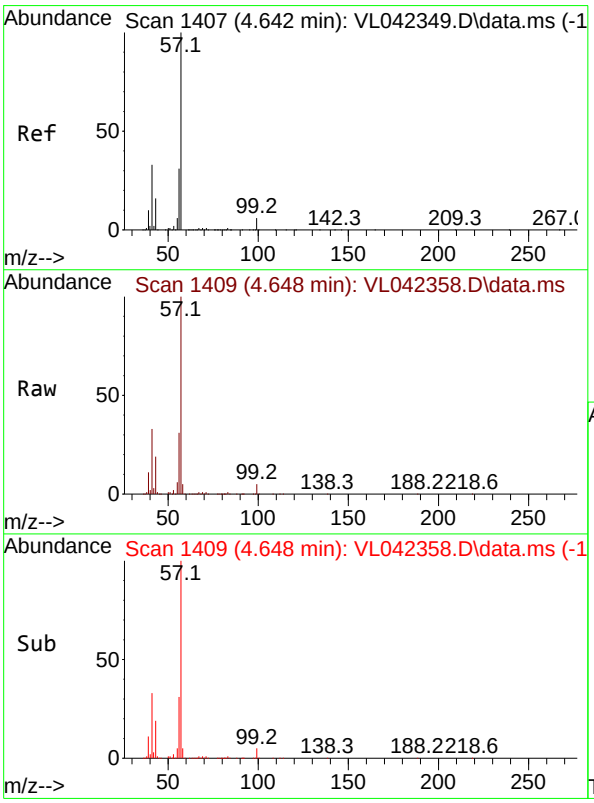
#43
Methyl Methacrylate
Concen: 9.304 ppbv
RT: 4.888 min Scan# 14
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

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

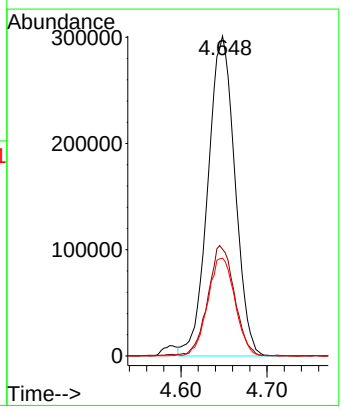


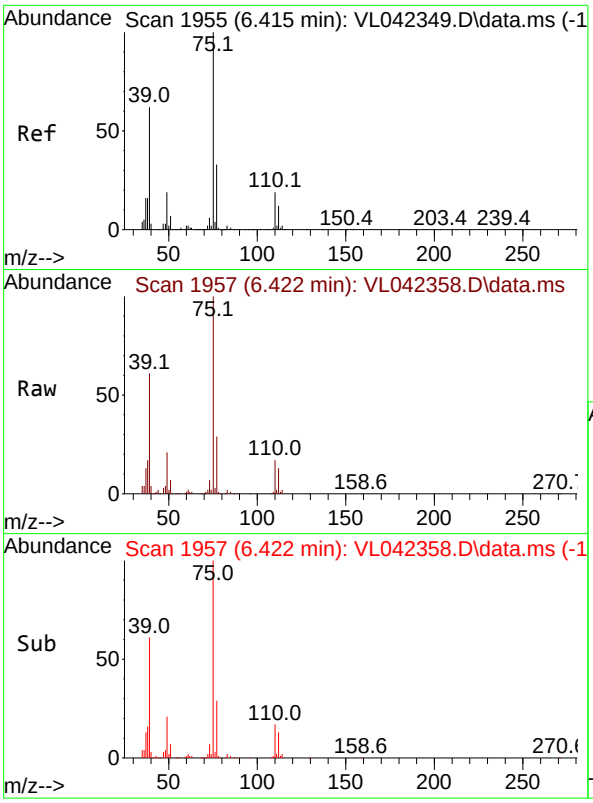


#44
2,2,4-Trimethylpentane
Concen: 10.019 ppbv
RT: 4.648 min Scan# 1409
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

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



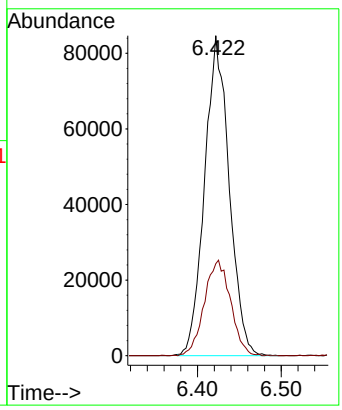


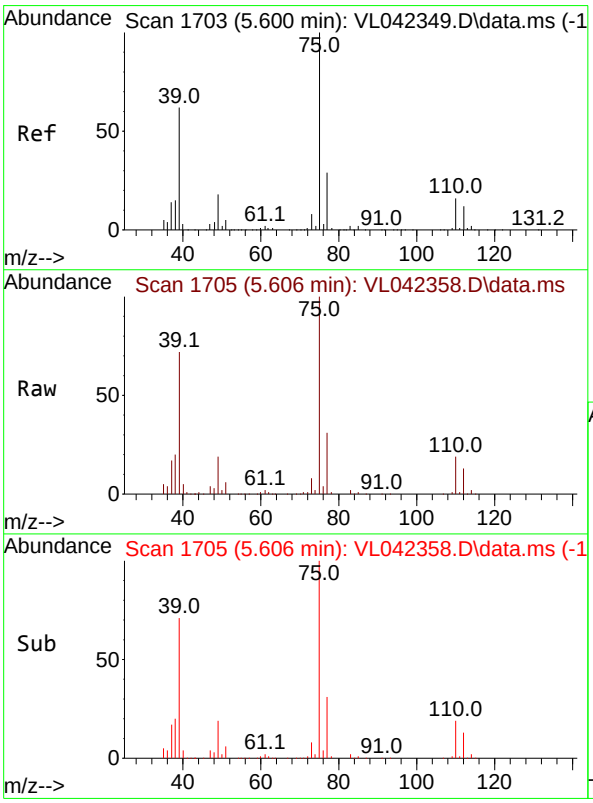
#45
t-1,3-Dichloropropene
Concen: 9.864 ppbv
RT: 6.422 min Scan# 1
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01

Tgt Ion: 75 Resp: 172514

Ion	Ratio	Lower	Upper
75	100		
77	28.7	27.0	40.6

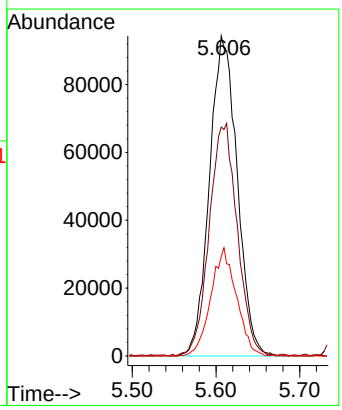


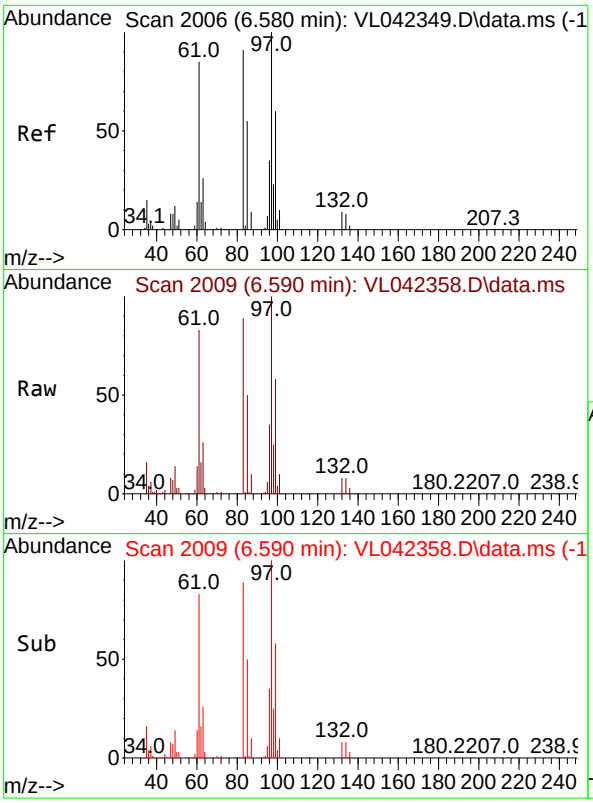


#46
cis-1,3-Dichloropropene
Concen: 10.133 ppbv
RT: 5.606 min Scan# 1705
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

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



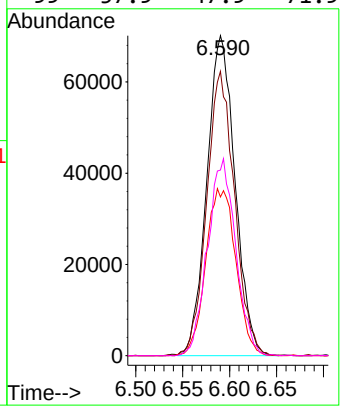


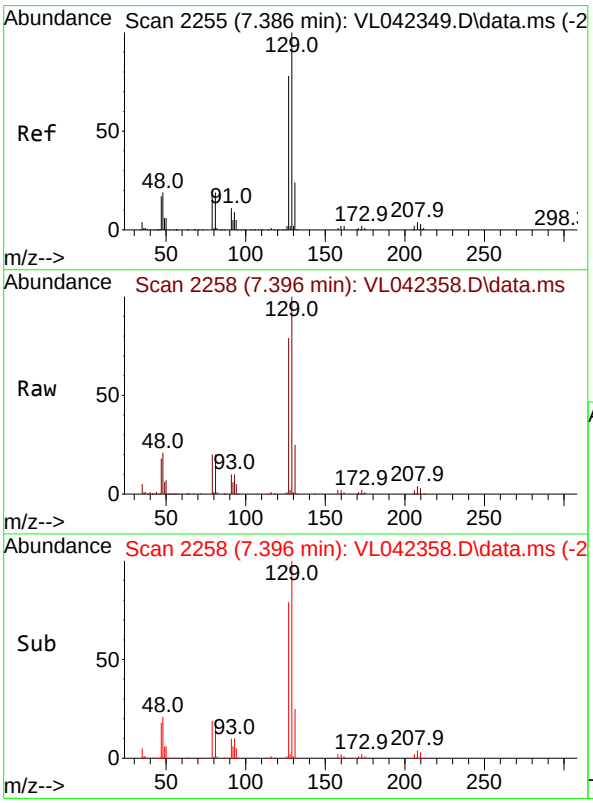
#47
1,1,2-Trichloroethane
Concen: 10.161 ppbv
RT: 6.590 min Scan# 2
Delta R.T. 0.010 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

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

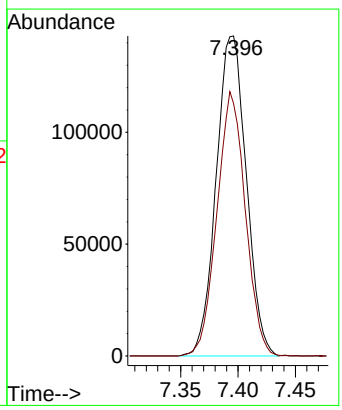


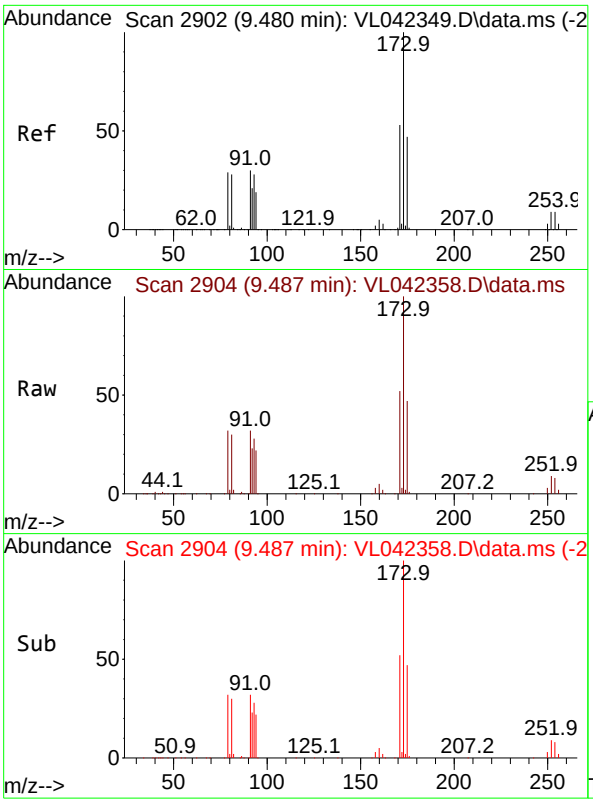


#48
Dibromochloromethane
Concen: 10.261 ppbv
RT: 7.396 min Scan# 2258
Delta R.T. 0.010 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion:129 Resp: 261470

Ion	Ratio	Lower	Upper
129	100		
127	77.9	39.1	117.3



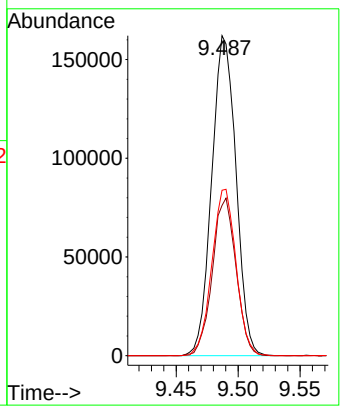


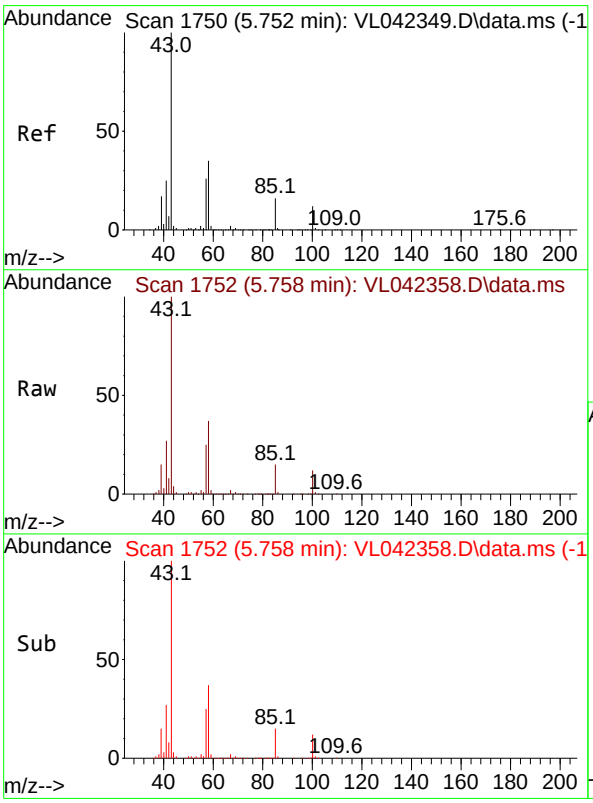
#49
Bromoform
Concen: 9.936 ppbv
RT: 9.487 min Scan# 2
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

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

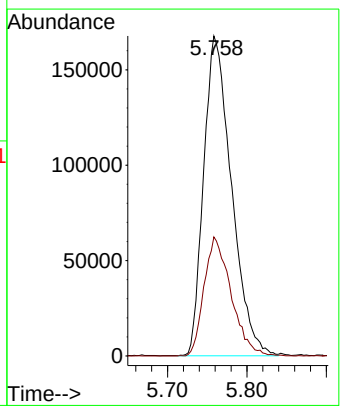


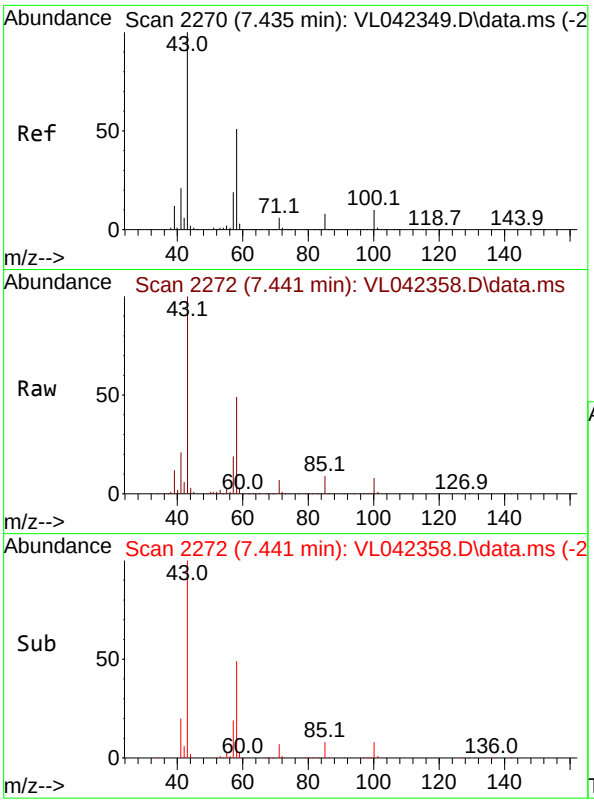


#50
4-Methyl-2-Pentanone
Concen: 8.810 ppbv
RT: 5.758 min Scan# 1752
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 43 Resp: 407804

Ion	Ratio	Lower	Upper
43	100		
58	36.2	28.6	43.0



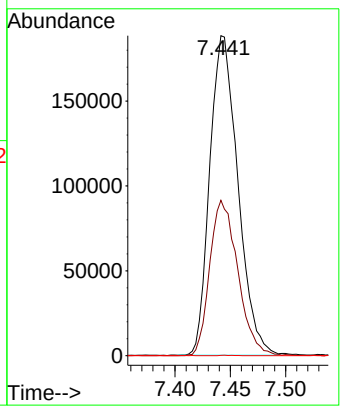


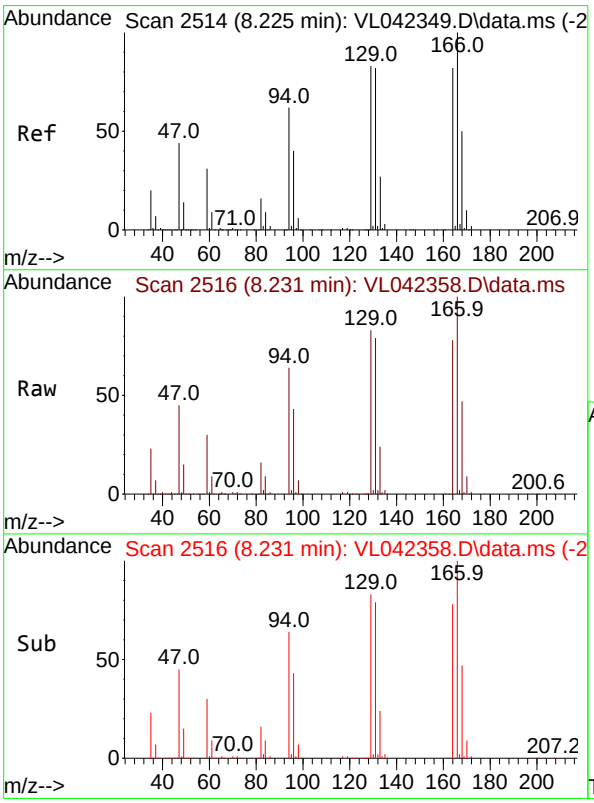
#51
2-Hexanone
Concen: 8.013 ppbv
RT: 7.441 min Scan# 2
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

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#

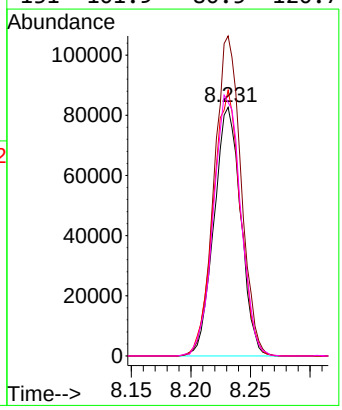


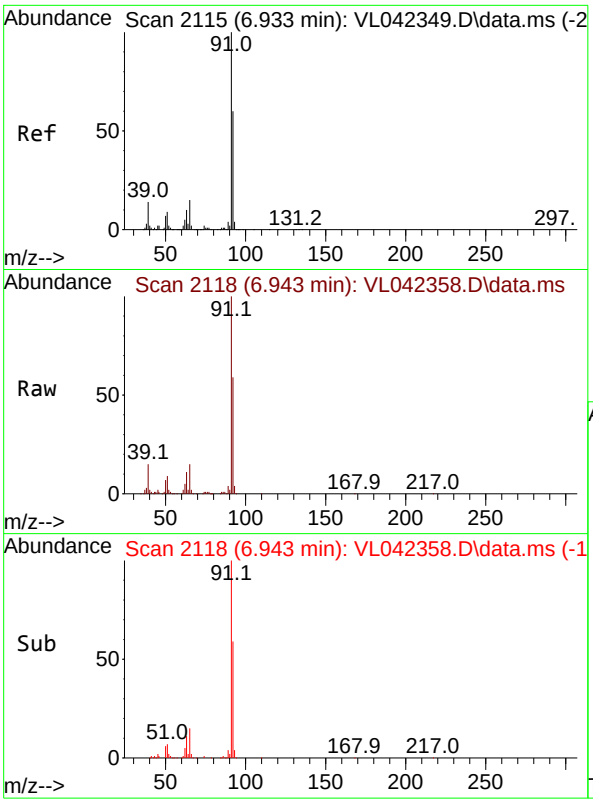


#52
Tetrachloroethene
Concen: 8.763 ppbv
RT: 8.231 min Scan# 2516
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

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



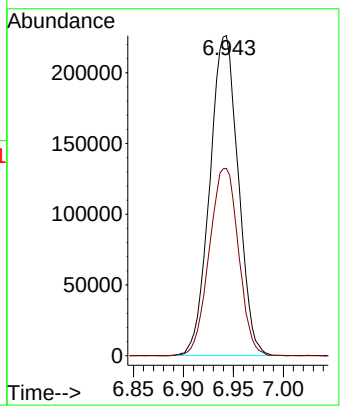


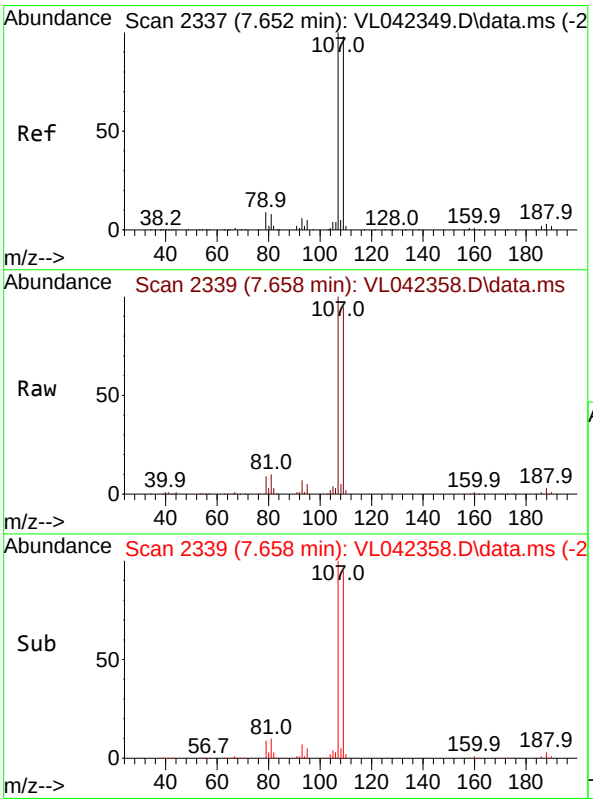
#53
Toluene
Concen: 9.818 ppbv
RT: 6.943 min Scan# 21
Delta R.T. 0.010 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01

Tgt Ion: 91 Resp: 447581

Ion	Ratio	Lower	Upper
91	100		
92	60.3	48.2	72.4

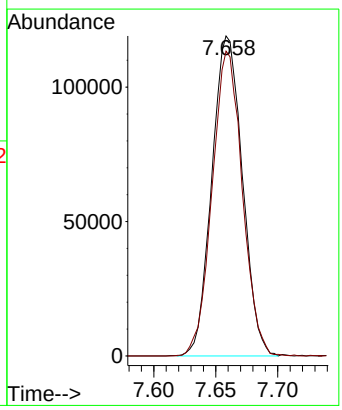


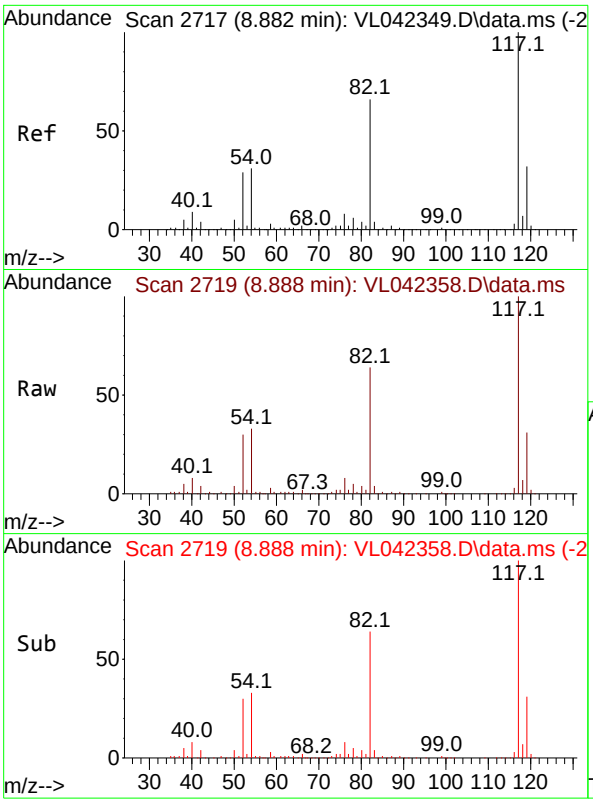


#54
1,2-Dibromoethane
Concen: 9.899 ppbv
RT: 7.658 min Scan# 2339
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion:107 Resp: 204328

Ion	Ratio	Lower	Upper
107	100		
109	95.1	78.2	117.4



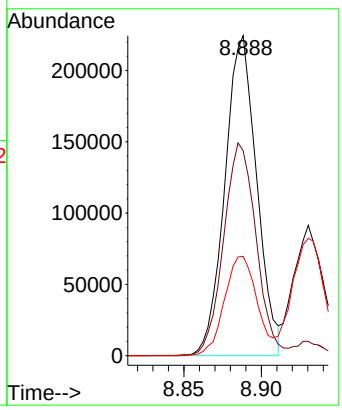


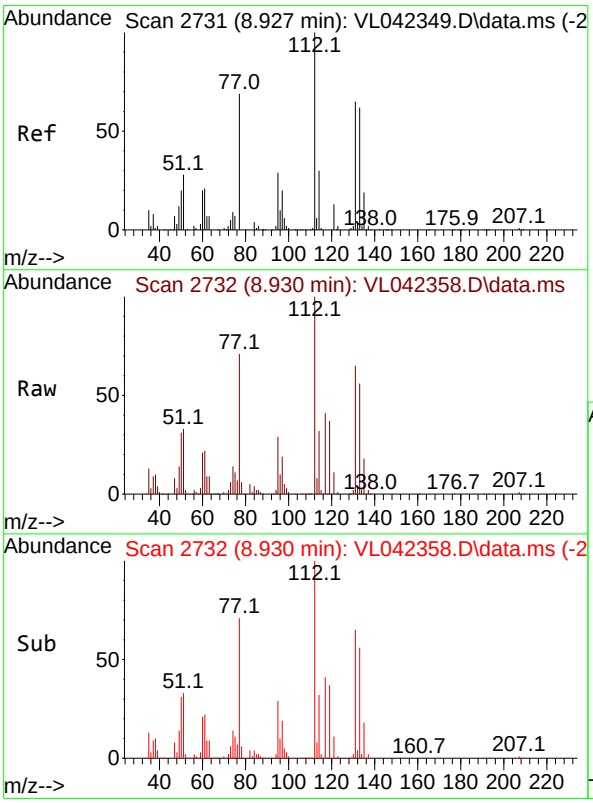
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.888 min Scan# 2
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

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

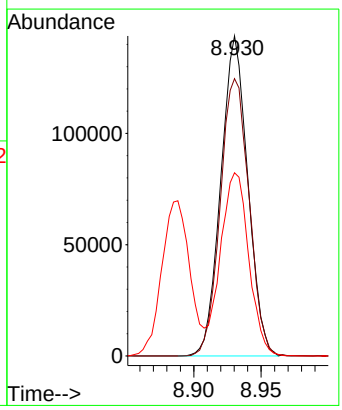


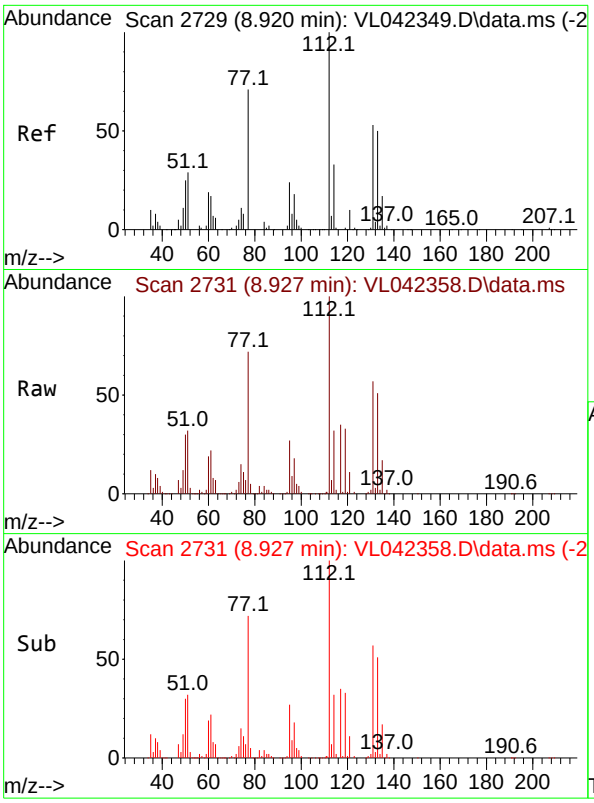


#56
1,1,1,2-Tetrachloroethane
Concen: 10.275 ppbv
RT: 8.930 min Scan# 2732
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

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



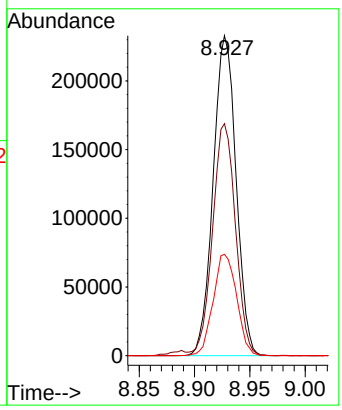


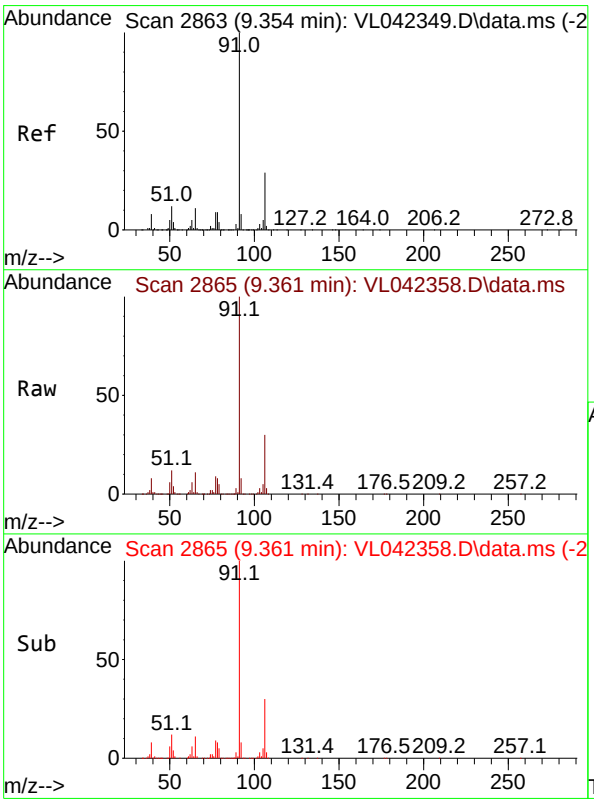
#57
Chlorobenzene
Concen: 10.022 ppbv
RT: 8.927 min Scan# 2
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

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

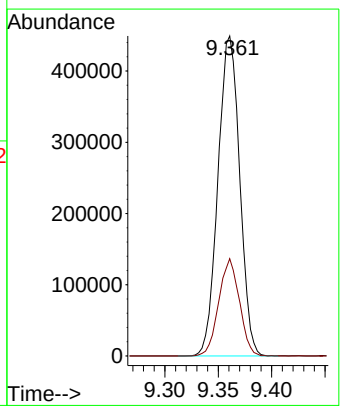


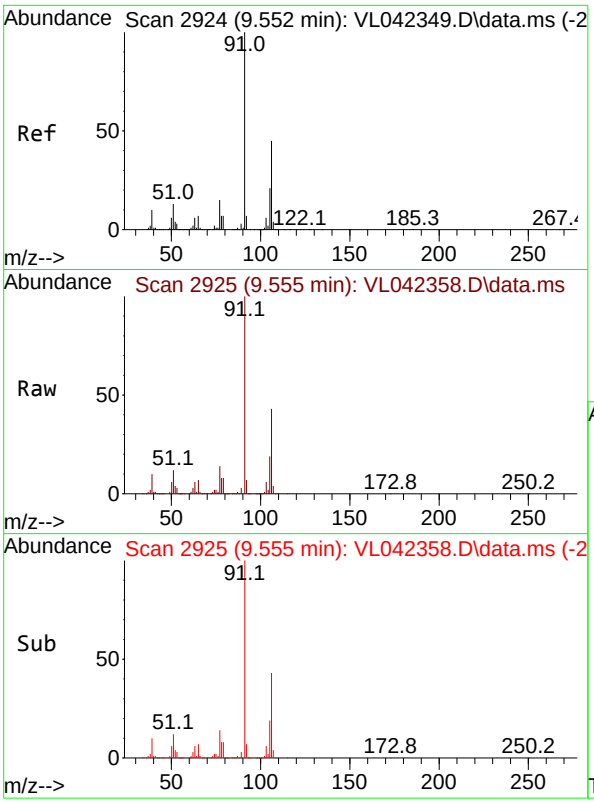


#58
Ethyl Benzene
Concen: 9.975 ppbv
RT: 9.361 min Scan# 2865
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 91 Resp: 635446

Ion	Ratio	Lower	Upper
91	100		
106	30.4	23.0	34.4



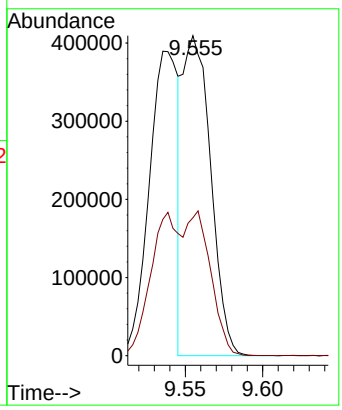


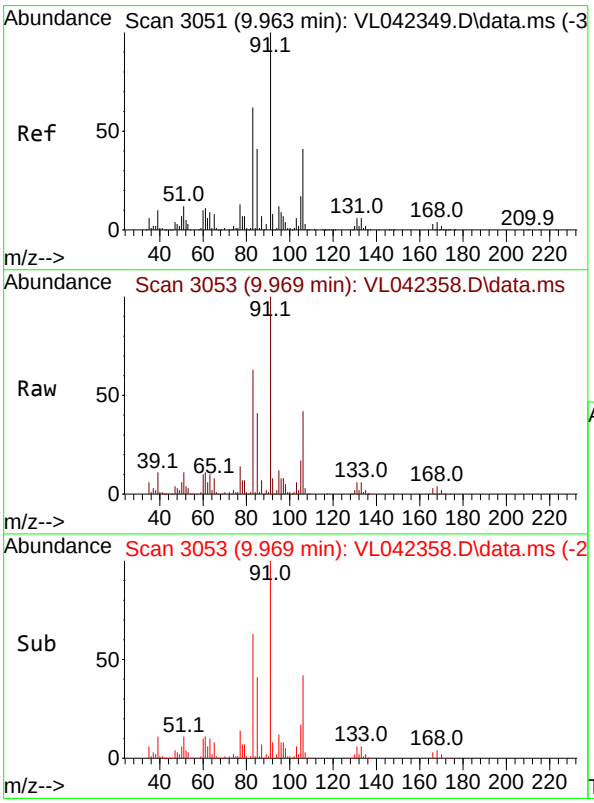
#59
m/p-Xylene
Concen: 10.001 ppbv
RT: 9.555 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01

Tgt Ion: 91 Resp: 513237

Ion	Ratio	Lower	Upper
91	100		
106	87.8	35.4	53.2#

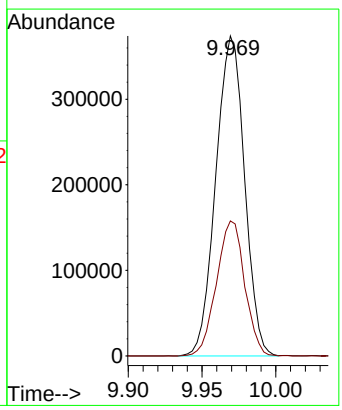


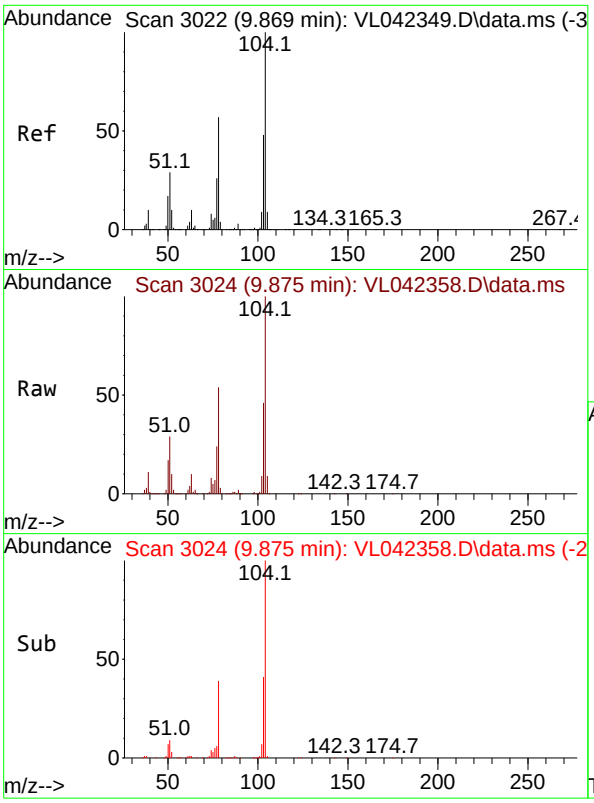


#60
o-Xylene
Concen: 9.802 ppbv
RT: 9.969 min Scan# 3053
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 91 Resp: 506535

Ion	Ratio	Lower	Upper
91	100		
106	41.4	21.1	63.4



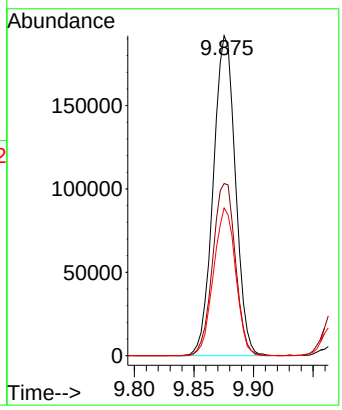


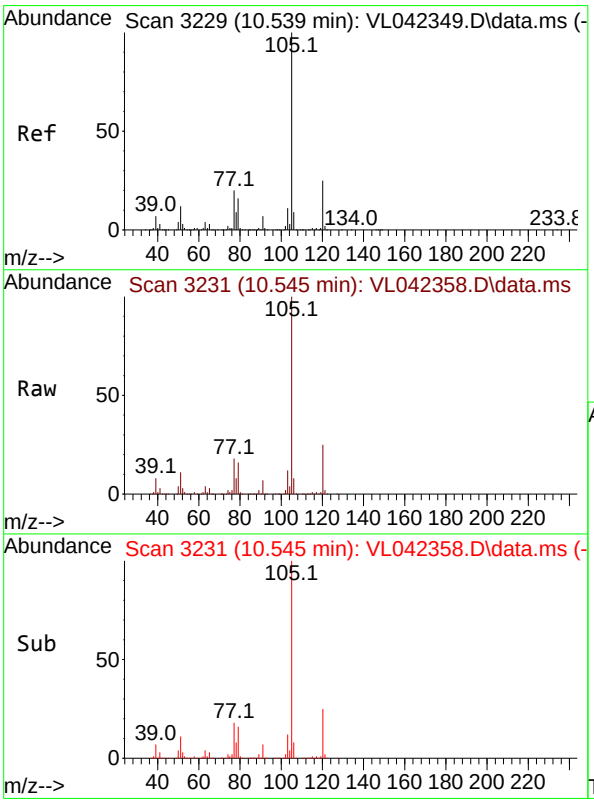
#61
Styrene
Concen: 10.055 ppbv
RT: 9.875 min Scan# 3
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

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

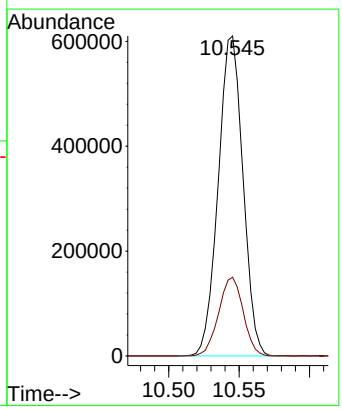


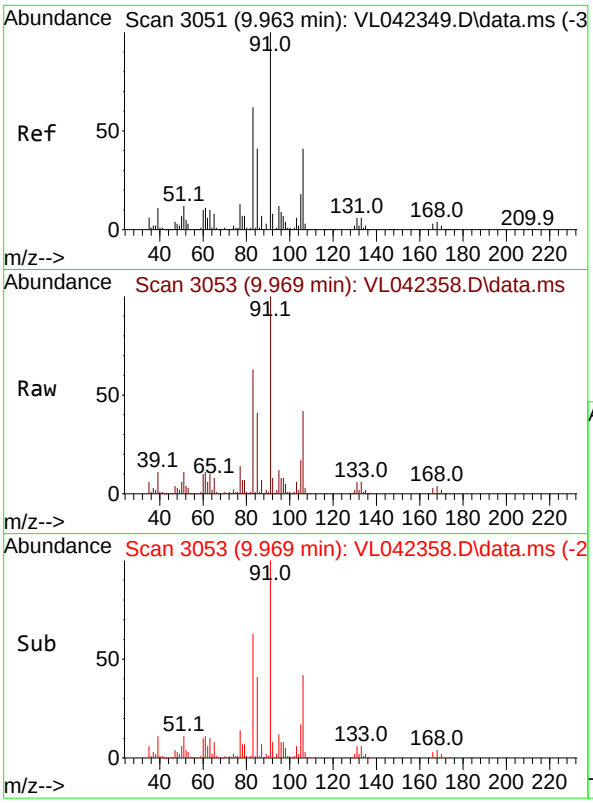


#62
Isopropylbenzene
Concen: 9.827 ppbv
RT: 10.545 min Scan# 3231
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion:105 Resp: 745571

Ion	Ratio	Lower	Upper
105	100		
120	24.5	19.8	29.8



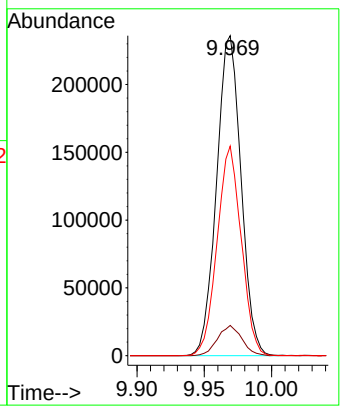


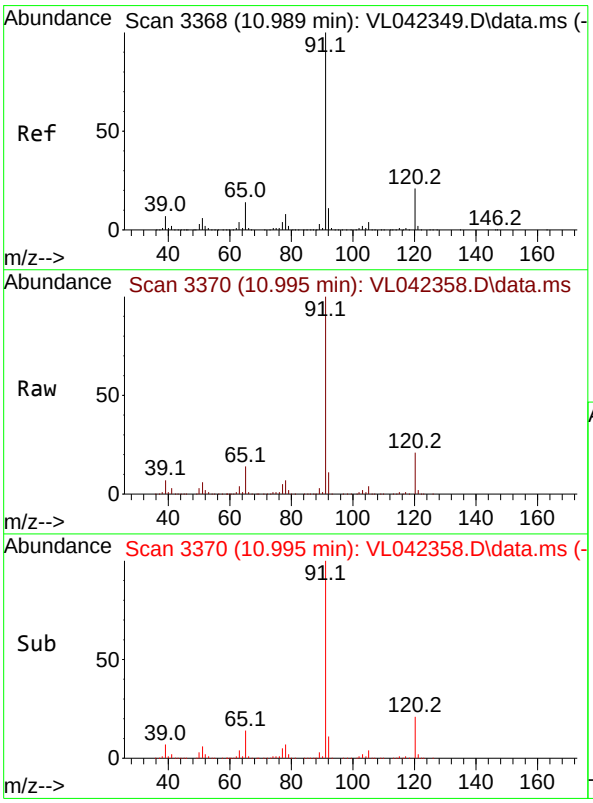
#63
1,1,2,2-Tetrachloroethane
Concen: 8.916 ppbv
RT: 9.969 min Scan# 3
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

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

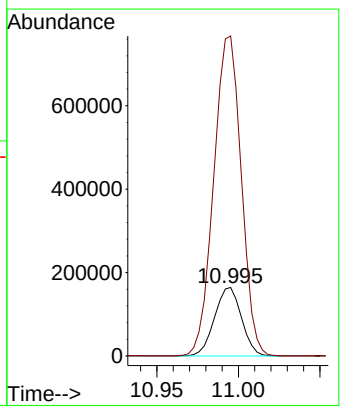


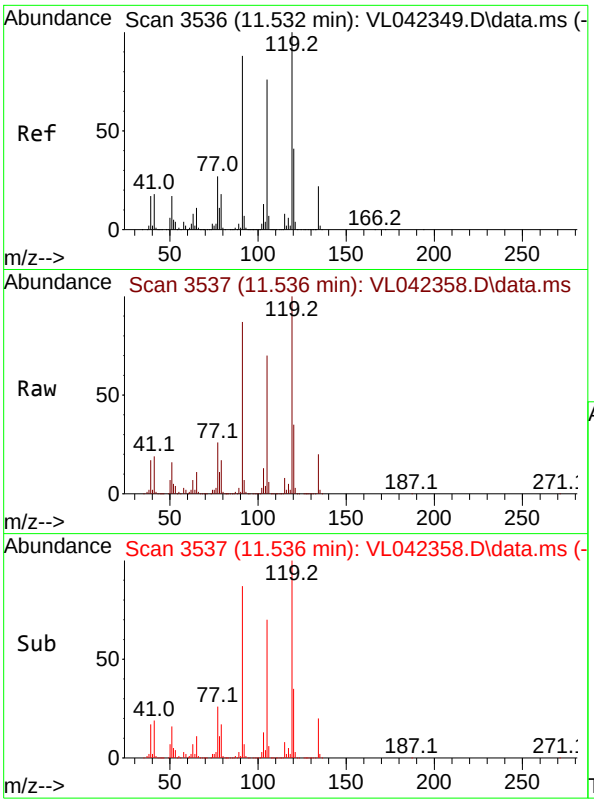


#64
n-propylbenzene
Concen: 9.875 ppbv
RT: 10.995 min Scan# 3370
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion:120 Resp: 188310

Ion	Ratio	Lower	Upper
120	100		
91	478.2	392.4	588.6



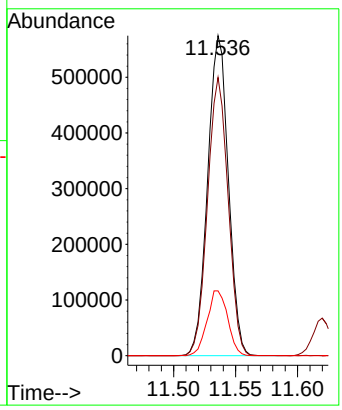


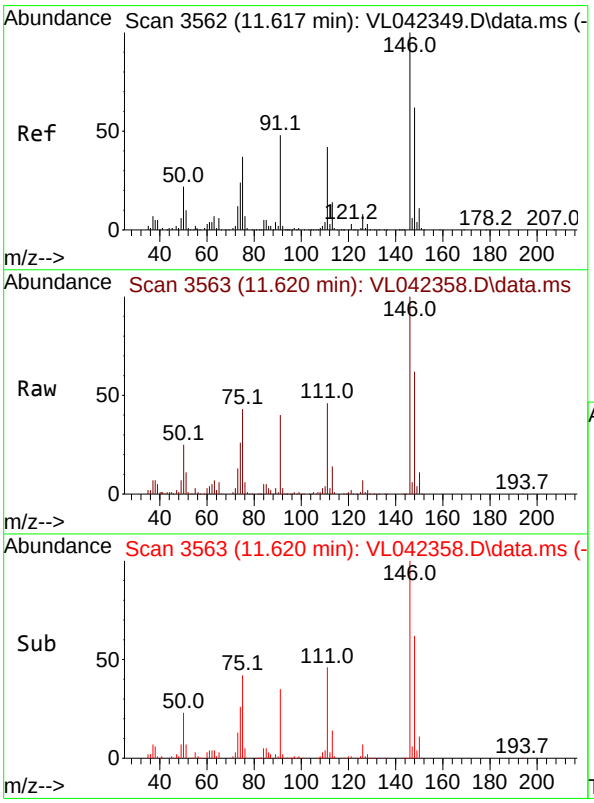
#65
tert-Butylbenzene
Concen: 9.589 ppbv
RT: 11.536 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

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

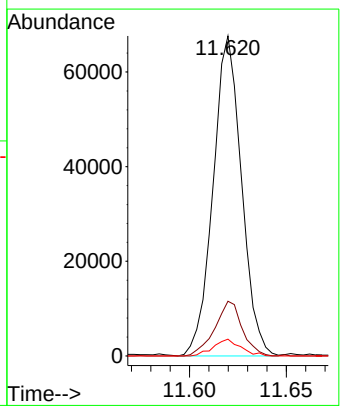


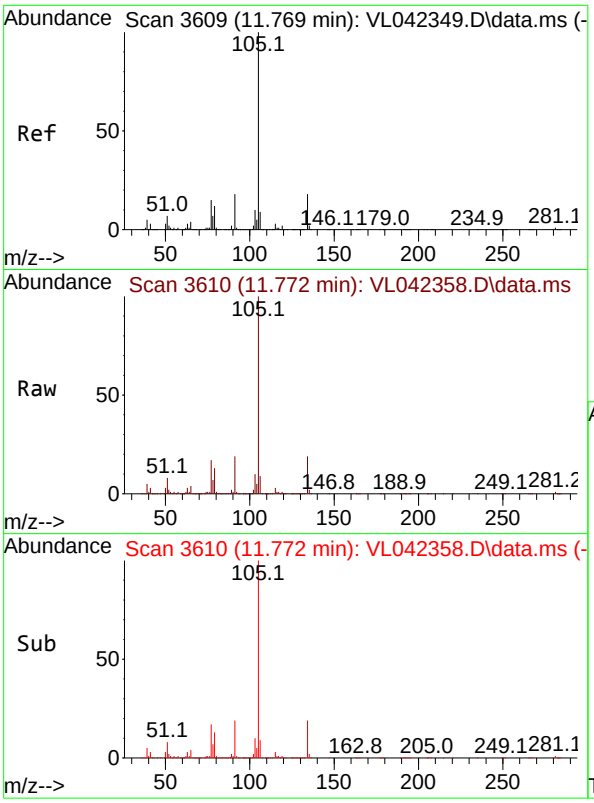


#66
Benzyl Chloride
Concen: 9.012 ppbv
RT: 11.620 min Scan# 3563
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

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



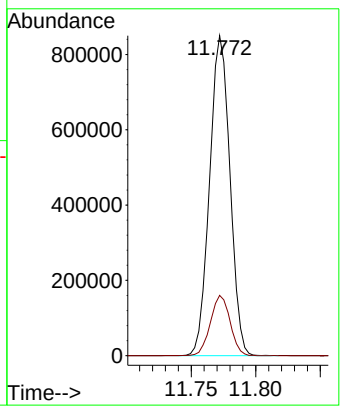


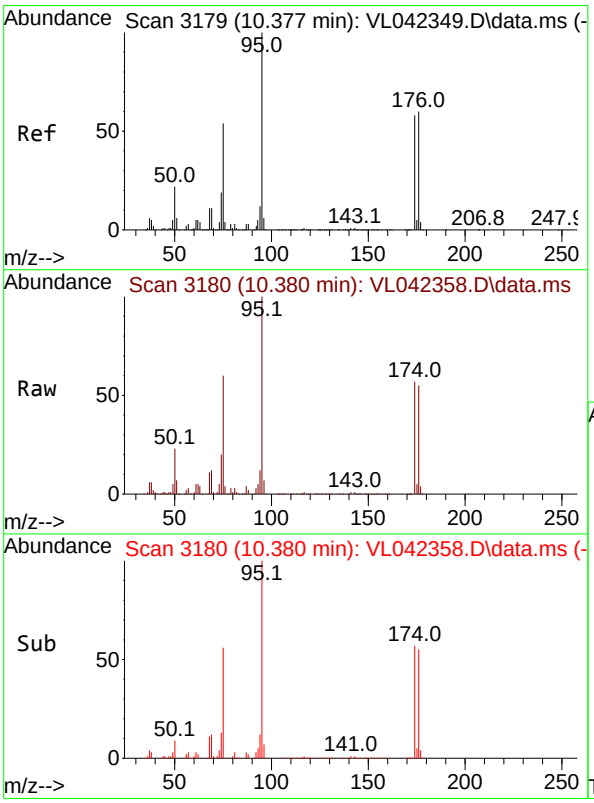
#67
sec-Butylbenzene
Concen: 9.592 ppbv
RT: 11.772 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01

Tgt Ion:105 Resp: 930426

Ion	Ratio	Lower	Upper
105	100		
134	18.3	14.6	21.8

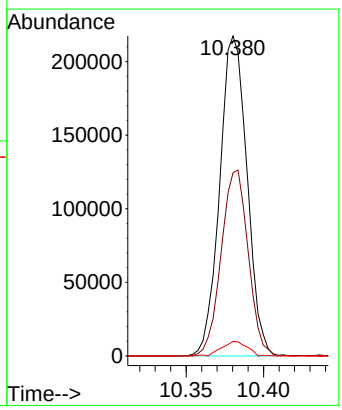


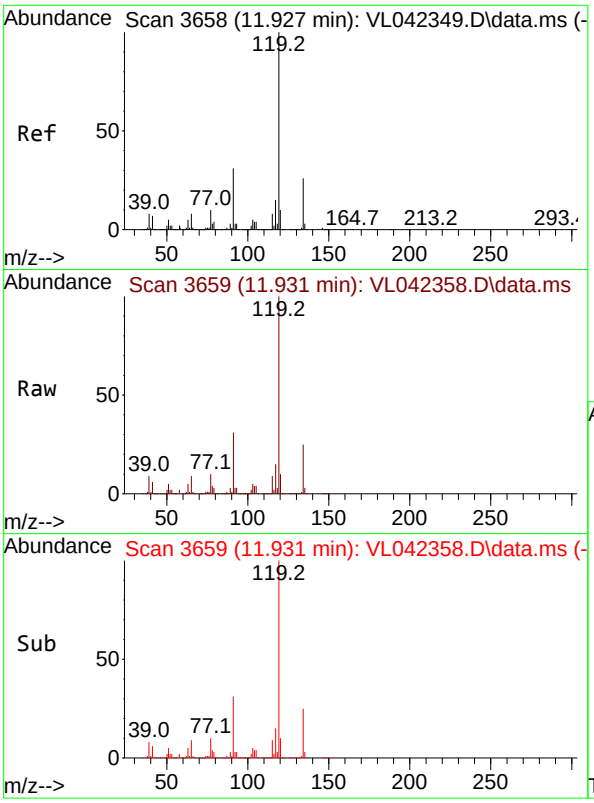


#68
1-Bromo-4-Fluorobenzene
Concen: 10.096 ppbv
RT: 10.380 min Scan# 3180
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

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



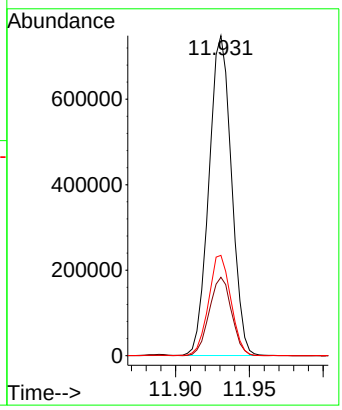


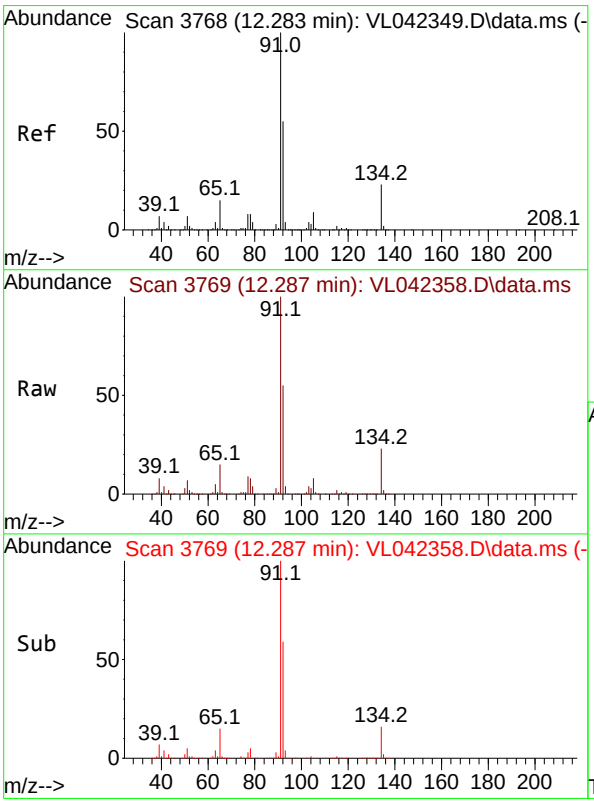
#69
p-Isopropyltoluene
Concen: 9.441 ppbv
RT: 11.931 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

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

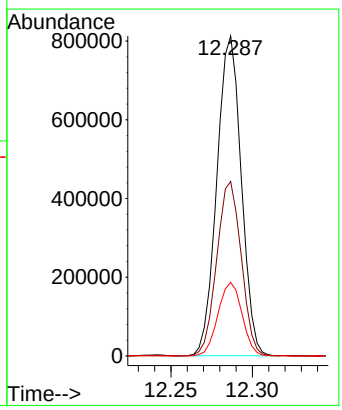


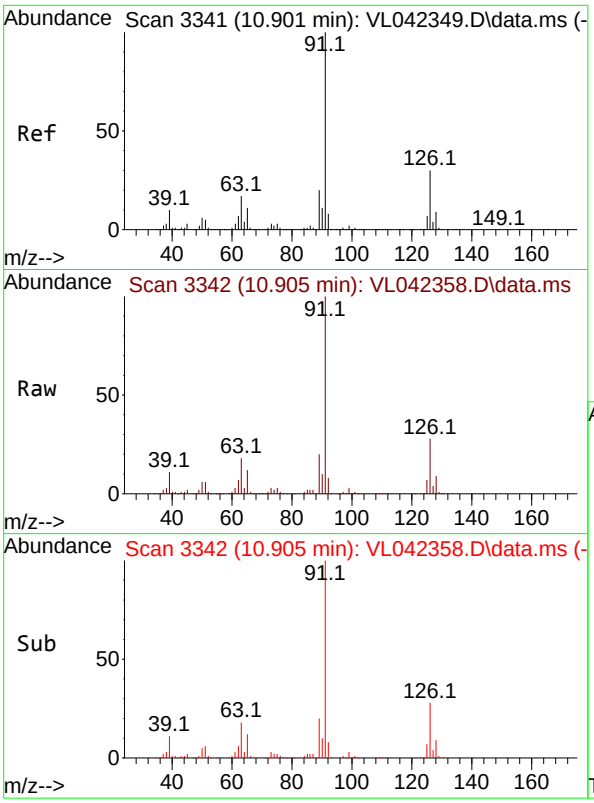


#70
n-Butylbenzene
Concen: 9.644 ppbv
RT: 12.287 min Scan# 3769
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

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



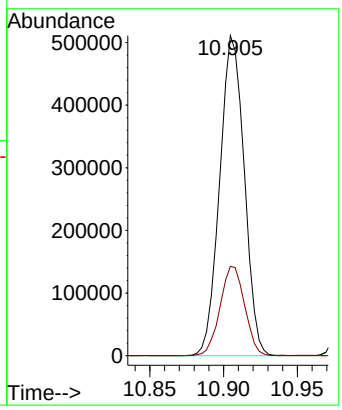


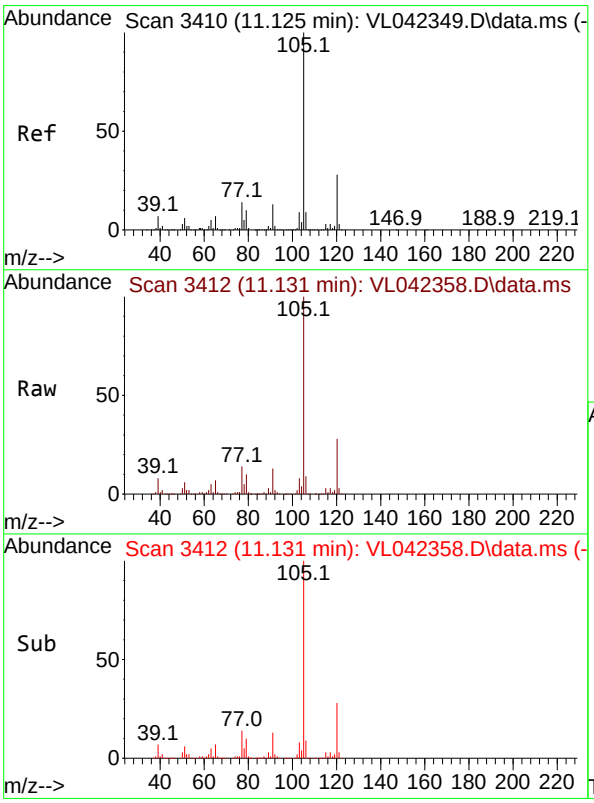
#71
2-Chlorotoluene
Concen: 9.934 ppbv
RT: 10.905 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01

Tgt Ion: 91 Resp: 591154

Ion	Ratio	Lower	Upper
91	100		
126	27.9	11.4	45.4

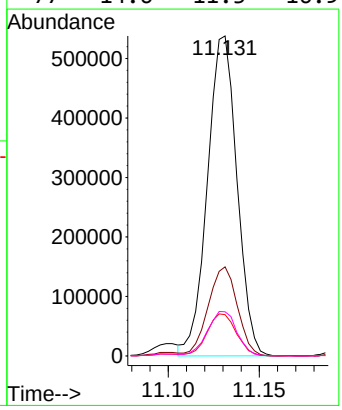


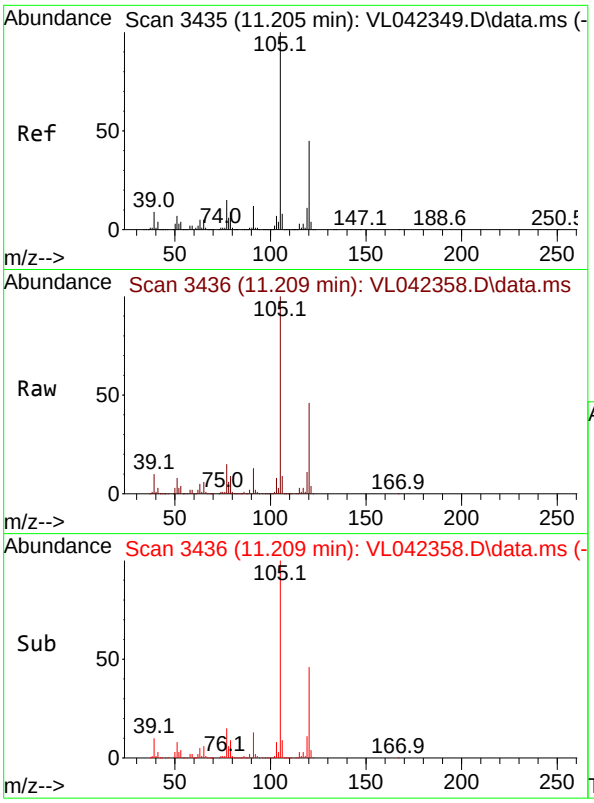


#72
4-Ethyltoluene
Concen: 9.606 ppbv
RT: 11.131 min Scan# 3412
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

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



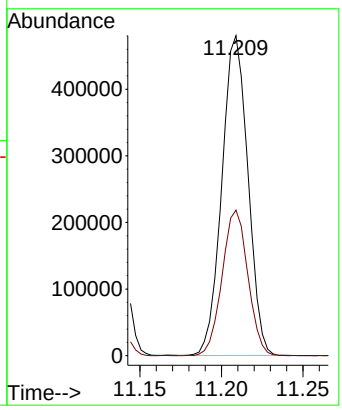


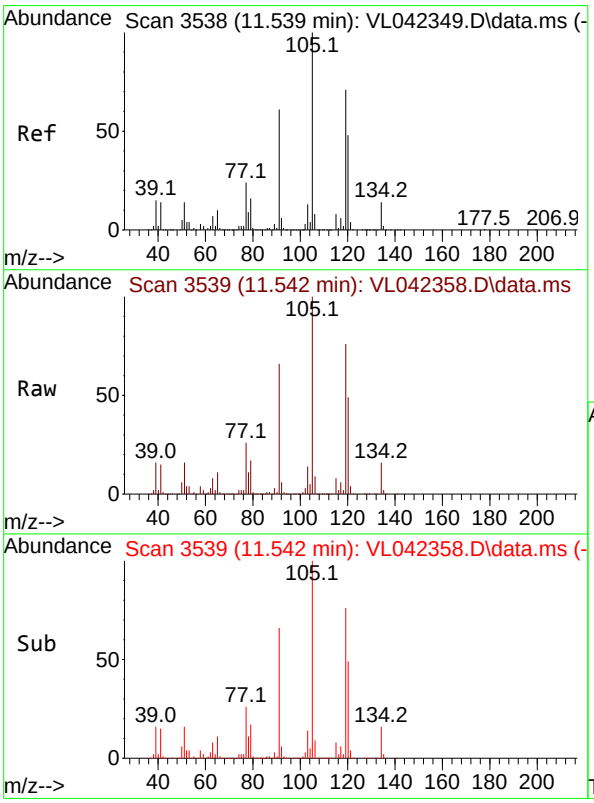
#73
1,3,5-Trimethylbenzene
Concen: 9.557 ppbv
RT: 11.209 min Scan# 34
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01

Tgt Ion:105 Resp: 533060

Ion	Ratio	Lower	Upper
105	100		
120	45.6	35.6	53.4

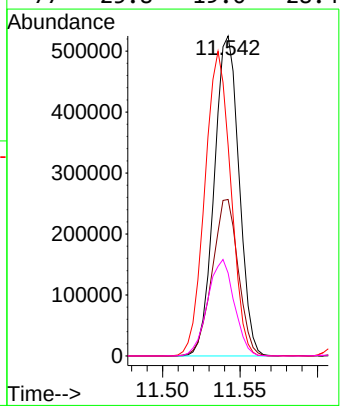


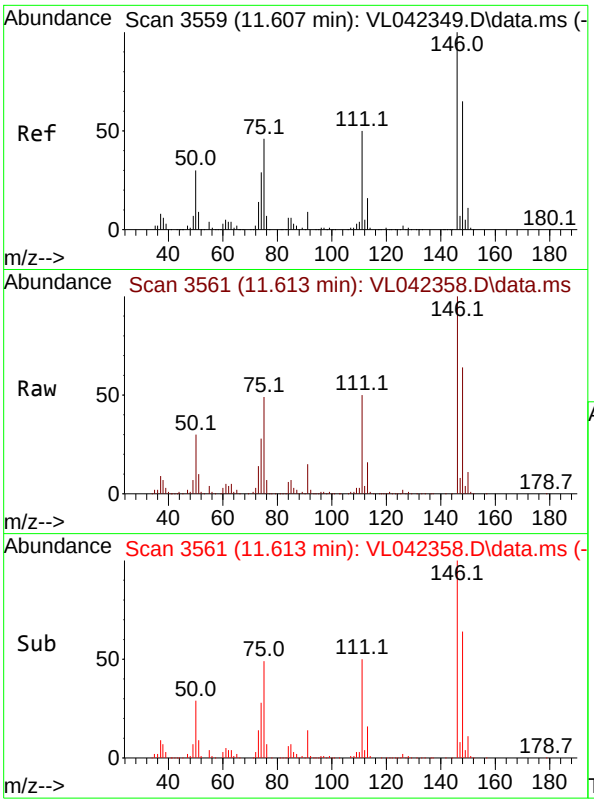


#74
1,2,4-Trimethylbenzene
Concen: 8.976 ppbv
RT: 11.542 min Scan# 3539
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

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



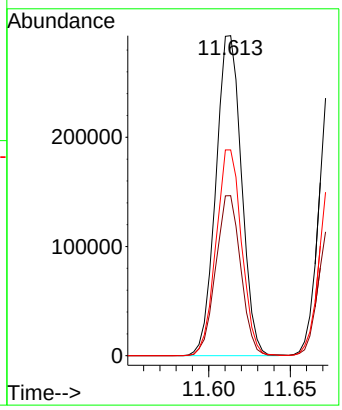


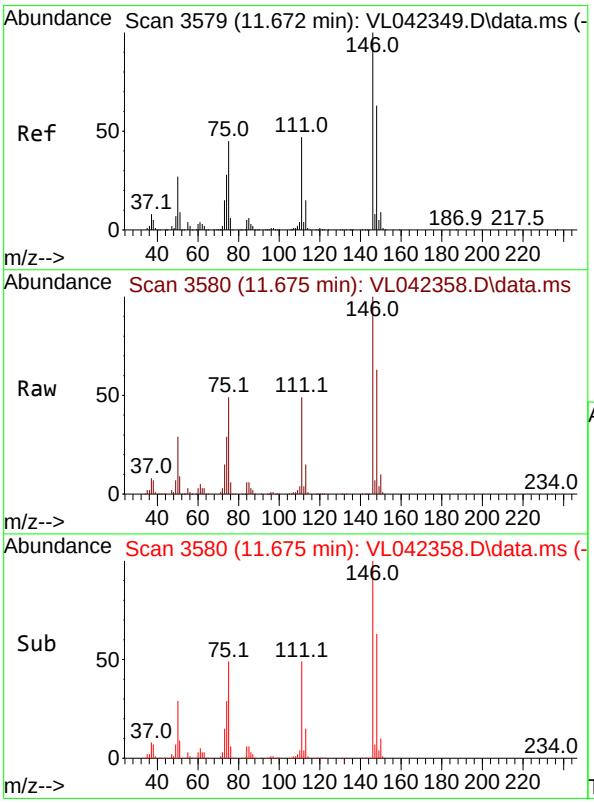
#75
1,3-Dichlorobenzene
Concen: 9.474 ppbv
RT: 11.613 min Scan# 3
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

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

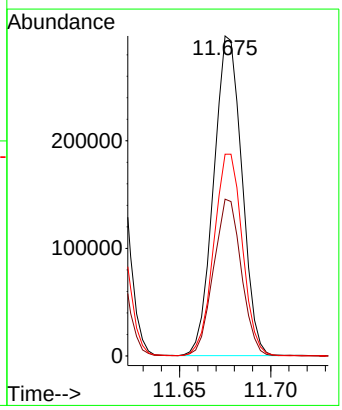


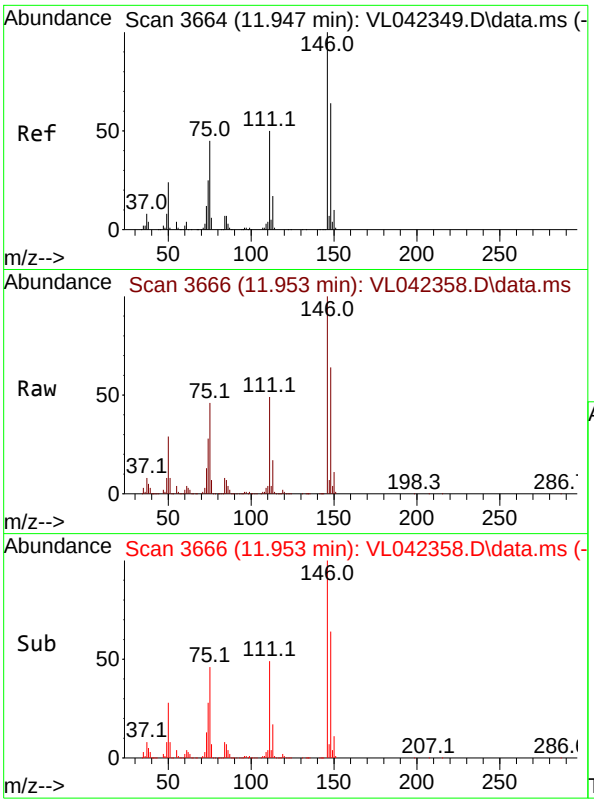


#76
1,4-Dichlorobenzene
Concen: 9.384 ppbv
RT: 11.675 min Scan# 3580
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

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



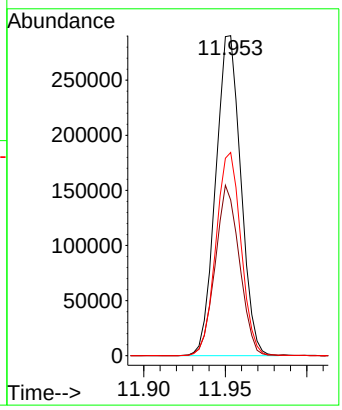


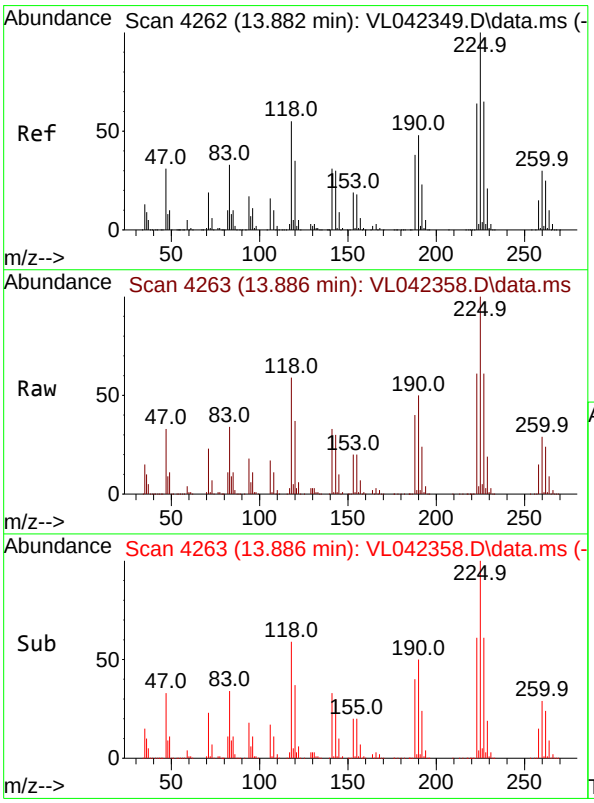
#77
1,2-Dichlorobenzene
Concen: 9.459 ppbv
RT: 11.953 min Scan# 3
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

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

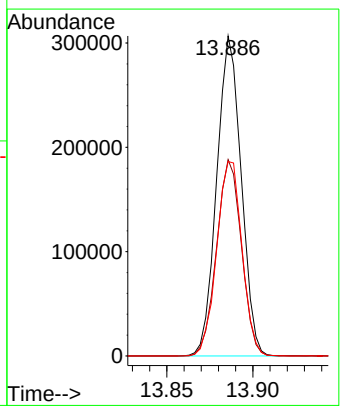


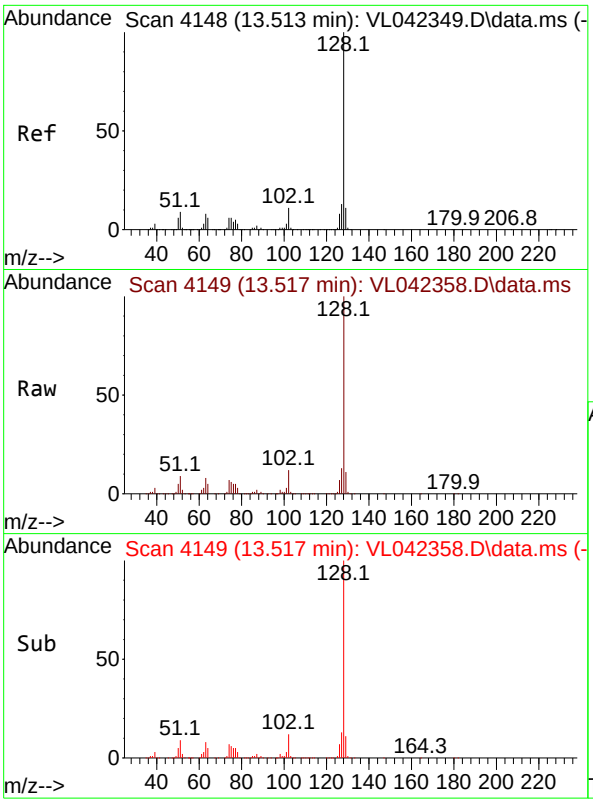


#78
Hexachloro-1,3-Butadiene
Concen: 9.124 ppbv
RT: 13.886 min Scan# 4263
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

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



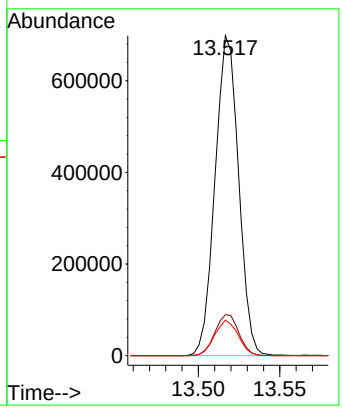


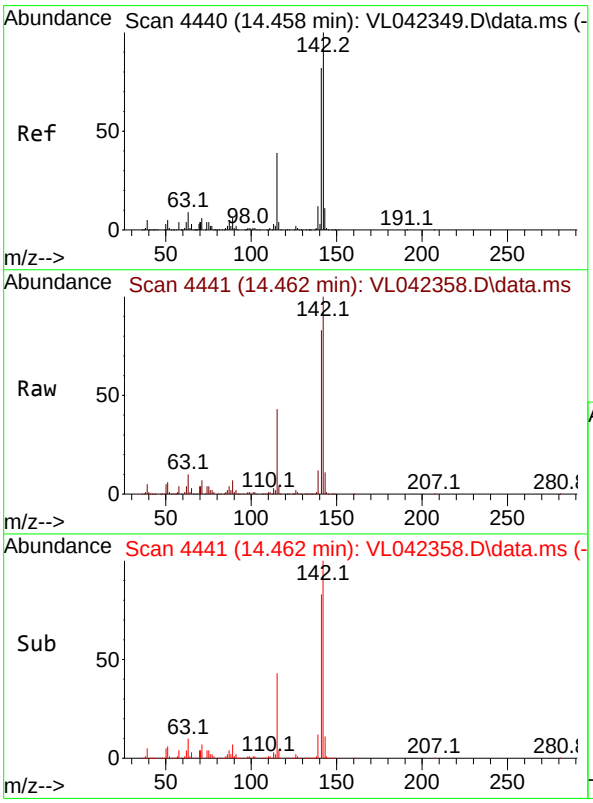
#79
Naphthalene
Concen: 8.999 ppbv
RT: 13.517 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

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

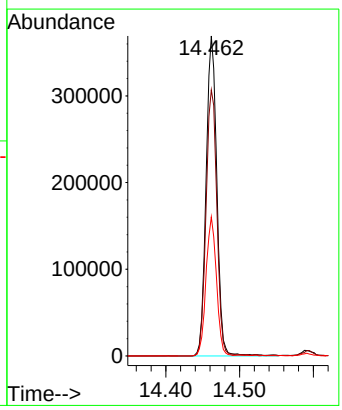


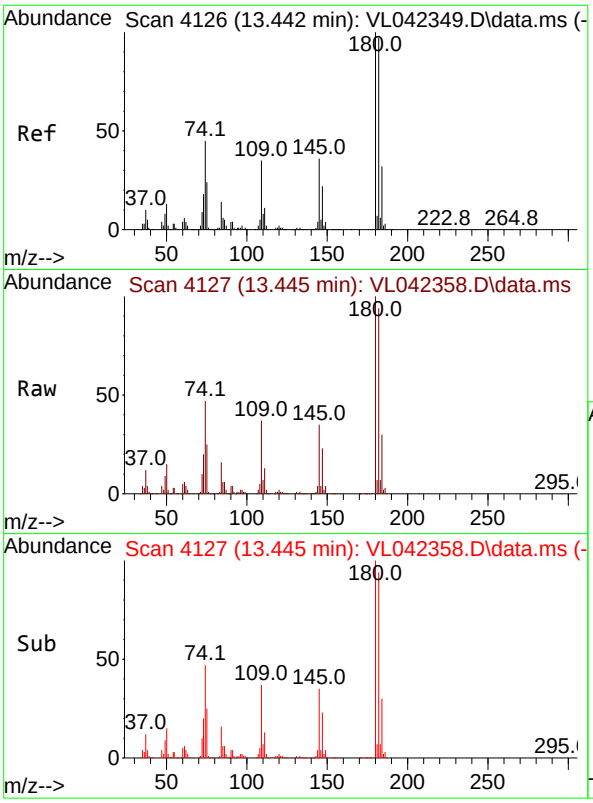


#80
Naphthalene,2-methyl-
Concen: 8.331 ppbv
RT: 14.462 min Scan# 4441
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

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



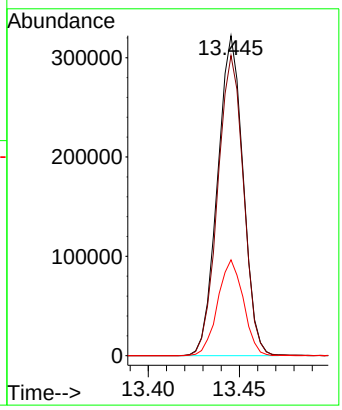


#81
1,2,4-Trichlorobenzene
Concen: 9.417 ppbv
RT: 13.445 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

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 : VL042366.D
Acq On : 17 Apr 2025 20:05
Operator : SY/MD
Sample : Q1726-01
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025

Quant Time: Apr 18 02:42:22 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	122216	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.959	114	344823	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.882	117	303405	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.377	95	252701	10.136	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 101.400%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.499	85	10356	0.480	ppbv		94
3) Chlorodifluoromethane	1.466	51	54573	2.654	ppbv	#	63
4) Chloromethane	1.531	50	4947	0.579	ppbv		94
6) Bromomethane	1.664	94	144	0.036	ppbv	#	8
7) Chloroethane	1.696	64	135	0.040	ppbv	#	85
9) Propene	1.560	41	70824	7.563	ppbv		96
10) Heptane	4.978	43	219183	8.331	ppbv		97
11) Trichlorofluoromethane	1.877	101	5014	0.244	ppbv		93
12) 1,1,2-Trichlorotrifluo...	2.136	101	1157	0.069	ppbv		84
13) Ethanol	1.722	45	370679	249.050	ppbv		75
15) Acetone	1.835	43	3072130	153.552	ppbv	#	43
16) 1,3-Butadiene	1.622	39	30747	3.213	ppbv	#	15
17) tert-Butyl alcohol	2.046	59	13005	0.525	ppbv	#	61
19) Isopropyl Alcohol	1.887	45	316355	28.464	ppbv	#	33
20) Methylene Chloride	2.062	84	16692	2.130	ppbv		91
21) Allyl Chloride	2.046	41	3913	0.283	ppbv	#	23
23) Vinyl Acetate	2.473	43	79634	9.833	ppbv	#	49
25) Ethyl Acetate	2.826	43	77759	1.576	ppbv	#	86
26) Hexane	2.826	57	94163	4.717	ppbv	#	36
27) Carbon Disulfide	2.153	76	1109	0.052	ppbv	#	42
30) Cyclohexane	3.855	84	31546	1.955	ppbv	#	88
34) 2-Butanone	2.560	43	30497	1.118	ppbv		99
35) Carbon Tetrachloride	3.761	117	1489	0.048	ppbv		89
36) Benzene	3.654	78	64219	1.727	ppbv		97
37) 1,2-Dichloroethane	3.221	62	2839	0.127	ppbv	#	62
39) 1,2-Dichloropropane	3.959	63	90263	6.513	ppbv	#	24
41) Tetrahydrofuran	3.069	42	3495	0.220	ppbv	#	80
42) Bromodichloromethane	4.515	83	6225	0.200	ppbv	#	25
43) Methyl Methacrylate	4.894	69	1290	0.077	ppbv	#	1
44) 2,2,4-Trimethylpentane	4.642	57	1167050	18.168	ppbv		95
50) 4-Methyl-2-Pentanone	5.778	43	5813	0.128	ppbv	#	61
51) 2-Hexanone	7.419	43	83604	2.057	ppbv	#	32
52) Tetrachloroethene	8.231	164	1048	0.073	ppbv	#	72
53) Toluene	6.940	91	2194341	49.165	ppbv		99
58) Ethyl Benzene	9.357	91	668072	11.113	ppbv		99
59) m/p-Xylene	9.535	91	1861243	38.435	ppbv		100
60) o-Xylene	9.966	91	753743	15.456	ppbv		99
61) Styrene	9.872	104	8179	0.351	ppbv		92
62) Isopropylbenzene	10.539	105	70653	0.987	ppbv		99
64) n-propylbenzene	10.992	120	59824	3.324	ppbv		92
65) tert-Butylbenzene	11.539	119	131539	1.999	ppbv	#	73
66) Benzyl Chloride	11.539	91	148615	20.553	ppbv	#	70
67) sec-Butylbenzene	11.769	105	21870	0.239	ppbv	#	82

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042366.D
Acq On : 17 Apr 2025 20:05
Operator : SY/MD
Sample : Q1726-01
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025

Quant Time: Apr 18 02:42:22 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

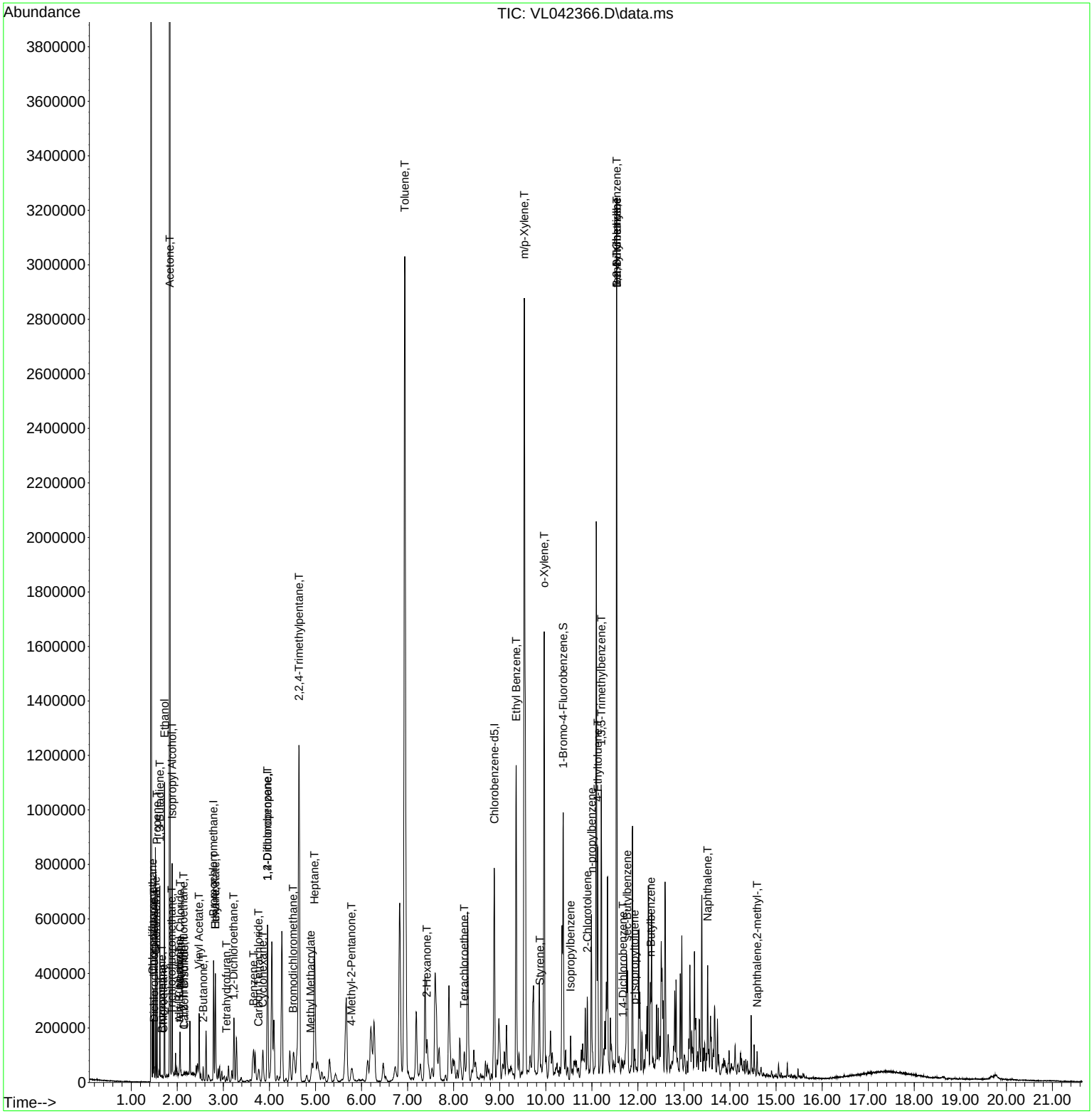
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
69)	p-Isopropyltoluene	11.927	119	29958	0.377	ppbv		98
70)	n-Butylbenzene	12.283	91	67288	0.812	ppbv	#	81
71)	2-Chlorotoluene	10.901	91	53769	0.958	ppbv		99
72)	4-Ethyltoluene	11.128	105	338919	5.685	ppbv	#	56
73)	1,3,5-Trimethylbenzene	11.205	105	368859	7.008	ppbv		99
74)	1,2,4-Trimethylbenzene	11.539	105	1184512	19.268	ppbv	#	66
76)	1,4-Dichlorobenzene	11.672	146	8250	0.257	ppbv	#	36
79)	Naphthalene	13.513	128	171574	2.334	ppbv		99
80)	Naphthalene,2-methyl-	14.588	142	23011	0.549	ppbv		87

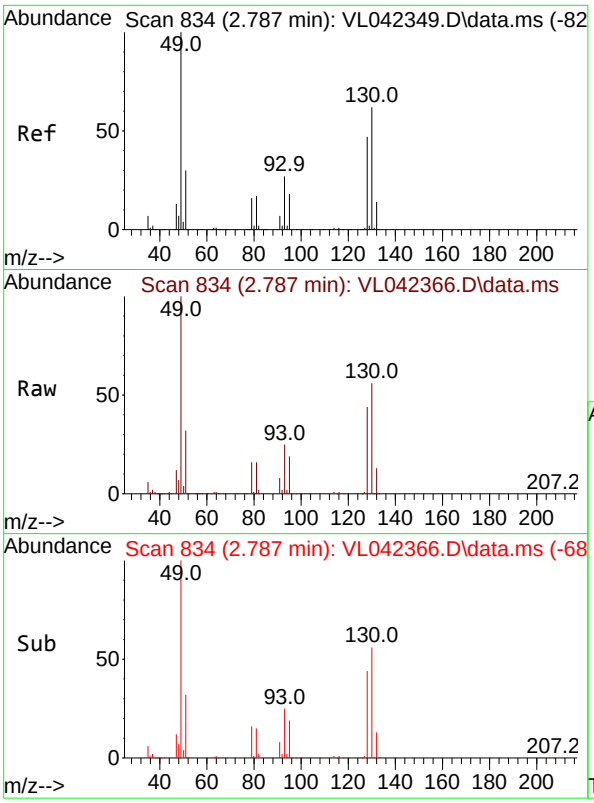
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042366.D
Acq On : 17 Apr 2025 20:05
Operator : SY/MD
Sample : Q1726-01
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025

Quant Time: Apr 18 02:42:22 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



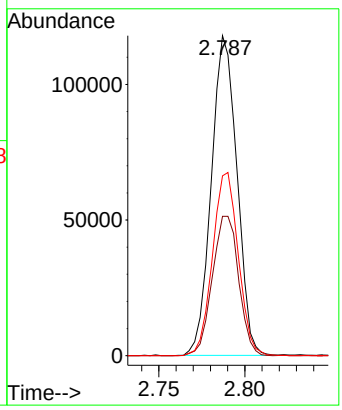


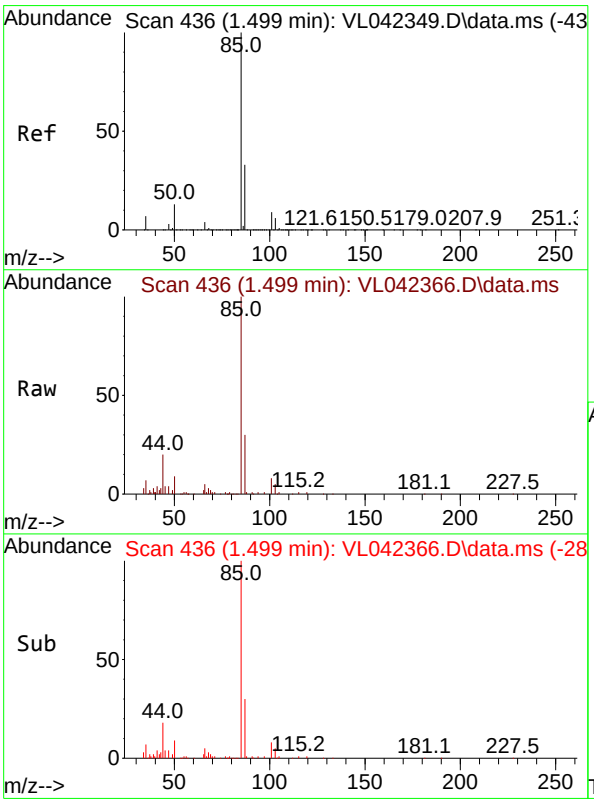
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL042366.D
Acq: 17 Apr 2025 20:05

Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025

Tgt Ion: 49 Resp: 122216

Ion	Ratio	Lower	Upper
49	100		
128	44.9	22.8	68.4
130	57.5	29.3	88.0

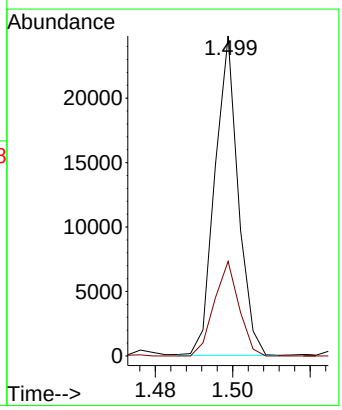


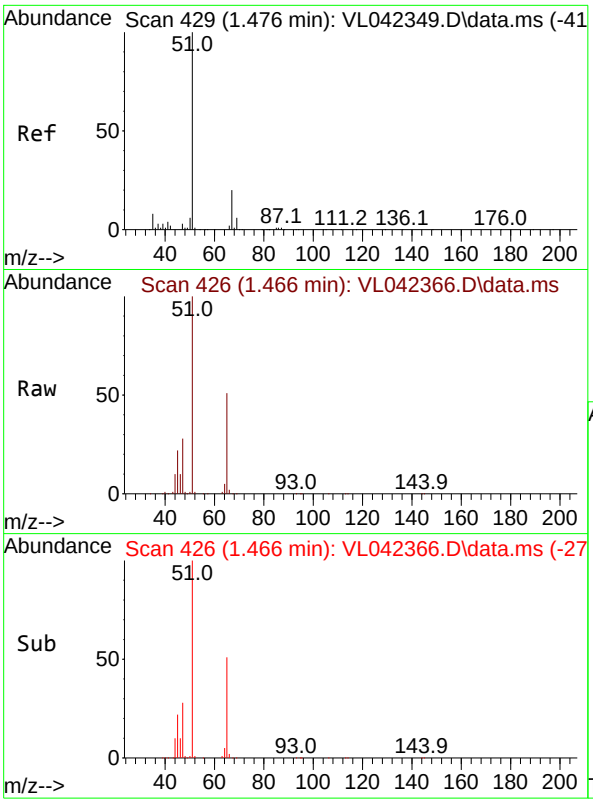


#2
Dichlorodifluoromethane
Concen: 0.480 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.000 min
Lab File: VL042366.D
Acq: 17 Apr 2025 20:05

Tgt Ion: 85 Resp: 10356

Ion	Ratio	Lower	Upper
85	100		
87	29.6	26.6	39.8



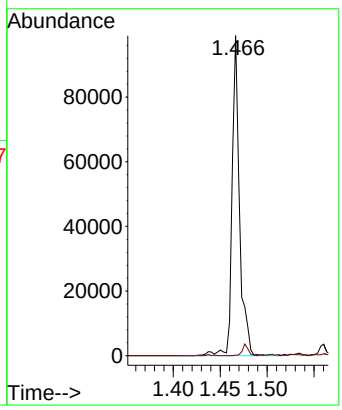


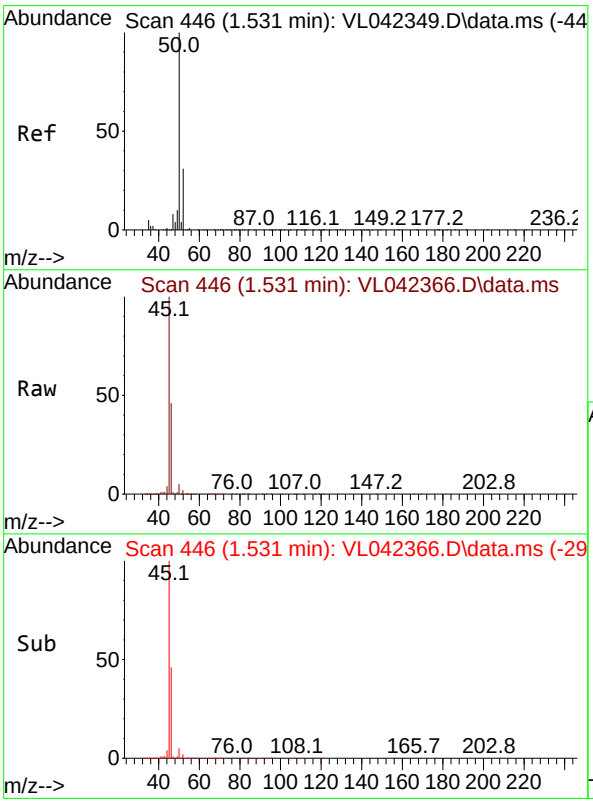
#3
Chlorodifluoromethane
Concen: 2.654 ppbv
RT: 1.466 min Scan# 4
Delta R.T. -0.010 min
Lab File: VL042366.D
Acq: 17 Apr 2025 20:05

Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025

Tgt Ion: 51 Resp: 54573

Ion	Ratio	Lower	Upper
51	100		
67	3.3	16.2	24.4#

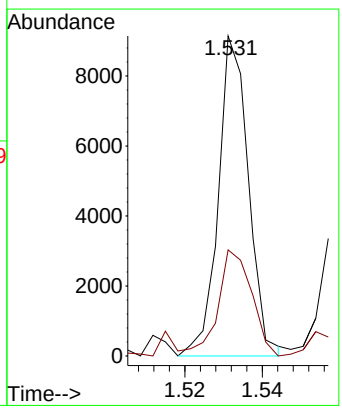


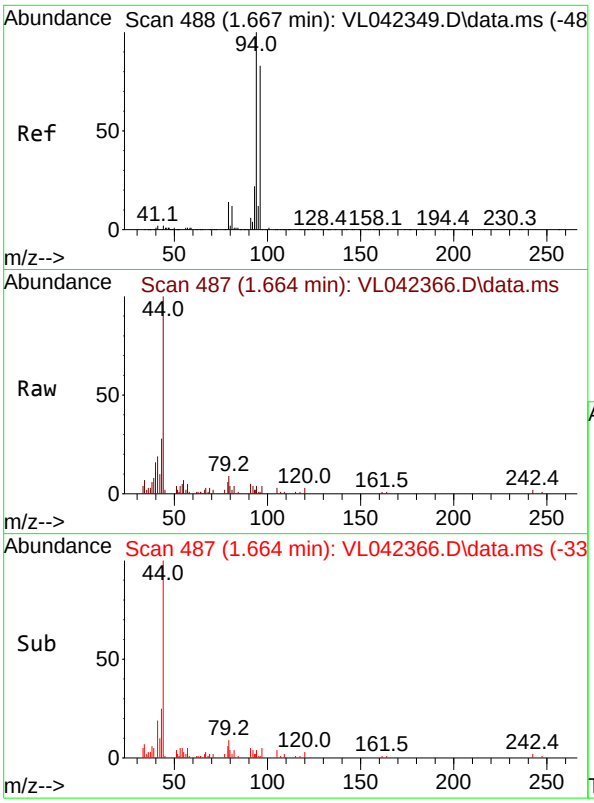


#4
Chloromethane
Concen: 0.579 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL042366.D
Acq: 17 Apr 2025 20:05

Tgt Ion: 50 Resp: 4947

Ion	Ratio	Lower	Upper
50	100		
52	34.2	24.7	37.1



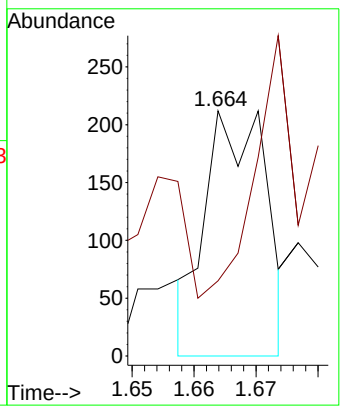


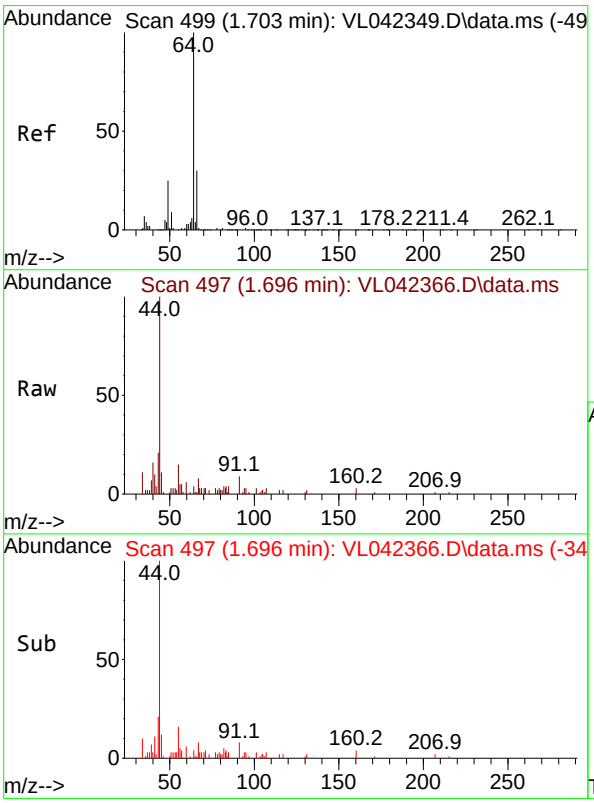
#6
Bromomethane
Concen: 0.036 ppbv
RT: 1.664 min Scan# 4
Delta R.T. -0.003 min
Lab File: VL042366.D
Acq: 17 Apr 2025 20:05

Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025

Tgt Ion: 94 Resp: 144

Ion	Ratio	Lower	Upper
94	100		
96	0.0	66.2	99.2#

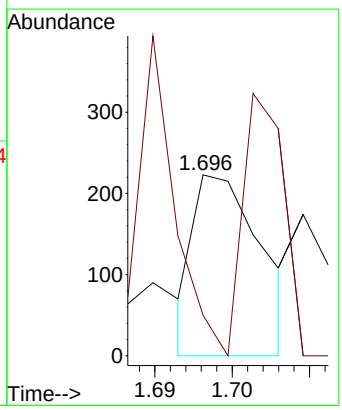


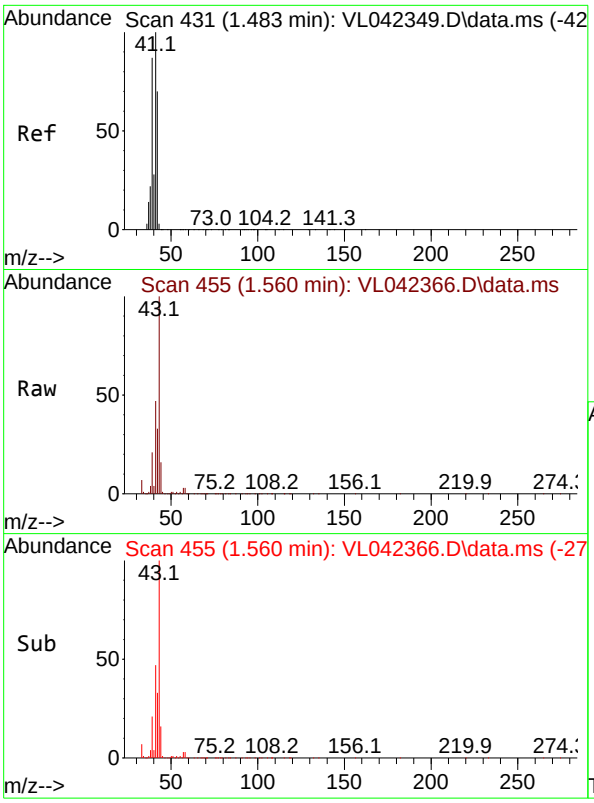


#7
Chloroethane
Concen: 0.040 ppbv
RT: 1.696 min Scan# 497
Delta R.T. -0.006 min
Lab File: VL042366.D
Acq: 17 Apr 2025 20:05

Tgt Ion: 64 Resp: 135

Ion	Ratio	Lower	Upper
64	100		
66	22.4	24.6	37.0#



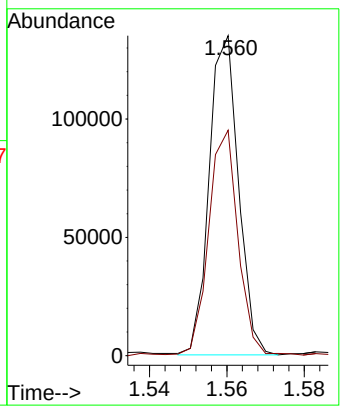


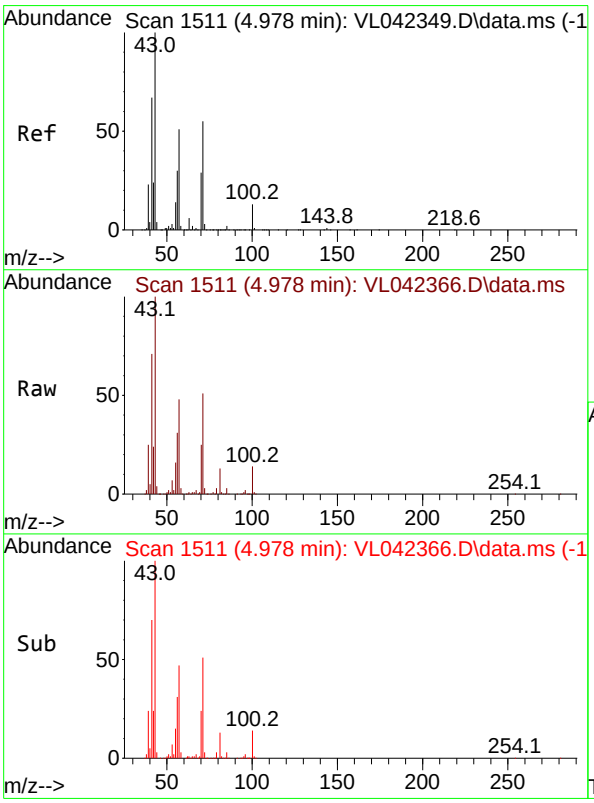
#9
Propene
Concen: 7.563 ppbv
RT: 1.560 min Scan# 4
Delta R.T. 0.078 min
Lab File: VL042366.D
Acq: 17 Apr 2025 20:05

Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025

Tgt Ion: 41 Resp: 70824

Ion	Ratio	Lower	Upper
41	100		
42	73.4	56.2	84.4

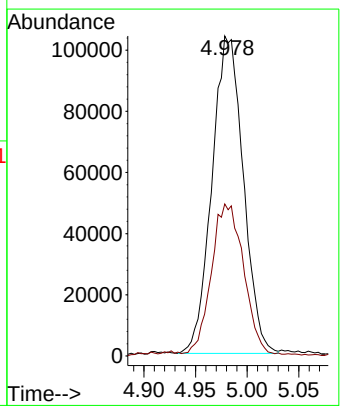


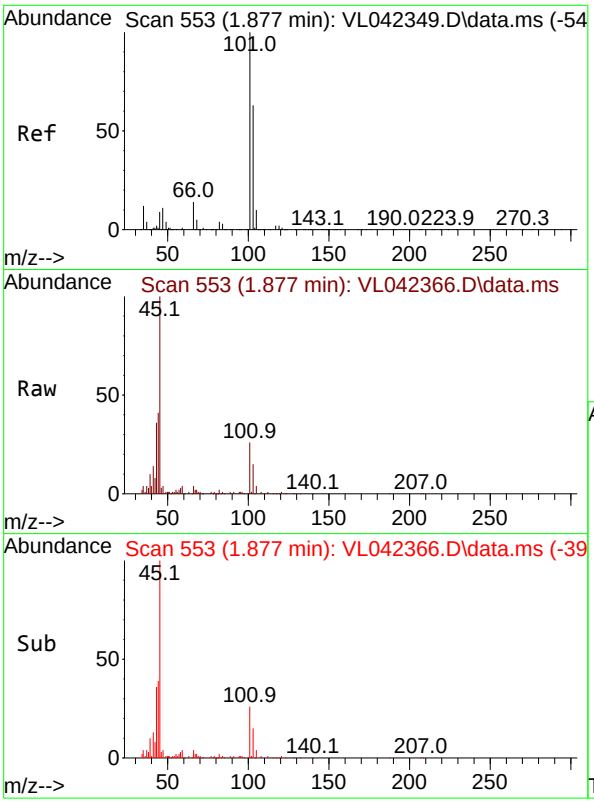


#10
Heptane
Concen: 8.331 ppbv
RT: 4.978 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VL042366.D
Acq: 17 Apr 2025 20:05

Tgt Ion: 43 Resp: 219183

Ion	Ratio	Lower	Upper
43	100		
57	51.9	39.9	59.9



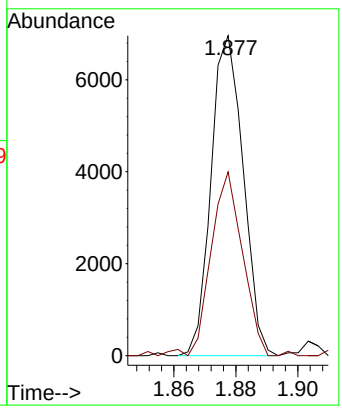


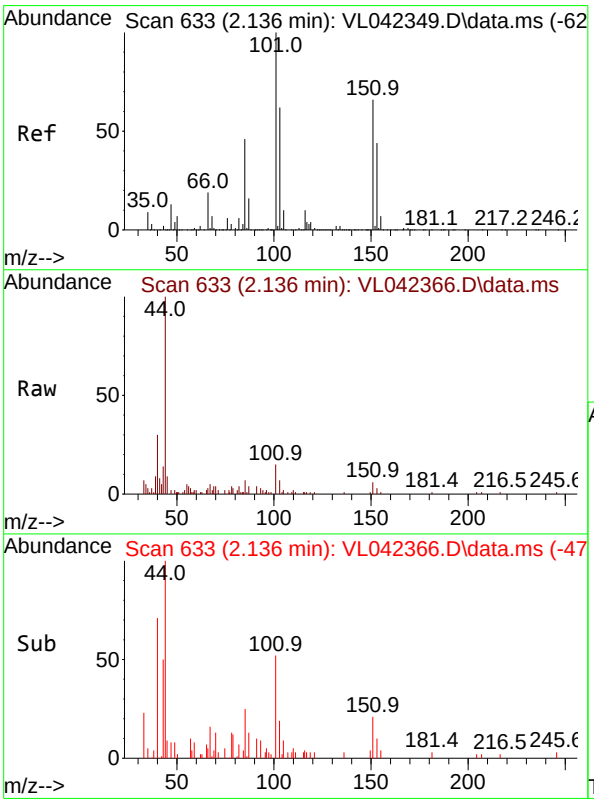
#11
Trichlorofluoromethane
Concen: 0.244 ppbv
RT: 1.877 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL042366.D
Acq: 17 Apr 2025 20:05

Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025

Tgt Ion:101 Resp: 5014

Ion	Ratio	Lower	Upper
101	100		
103	57.5	50.1	75.1

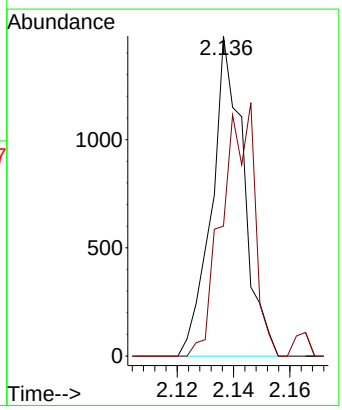


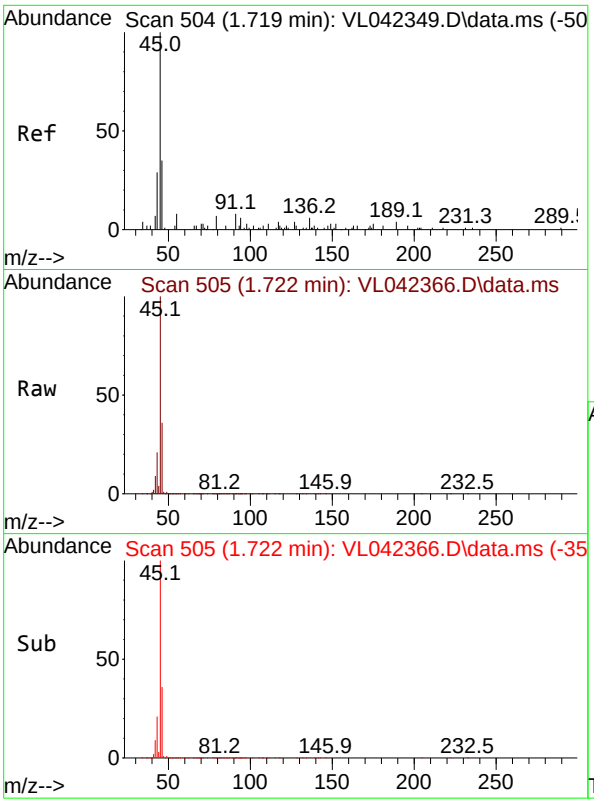


#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.069 ppbv
RT: 2.136 min Scan# 633
Delta R.T. 0.000 min
Lab File: VL042366.D
Acq: 17 Apr 2025 20:05

Tgt Ion:101 Resp: 1157

Ion	Ratio	Lower	Upper
101	100		
151	84.4	57.0	85.6



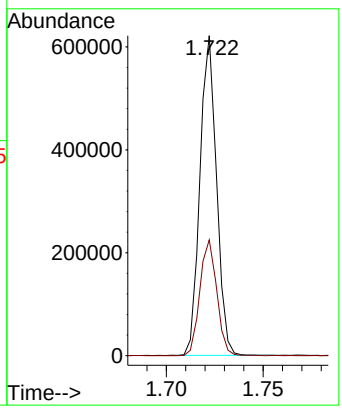


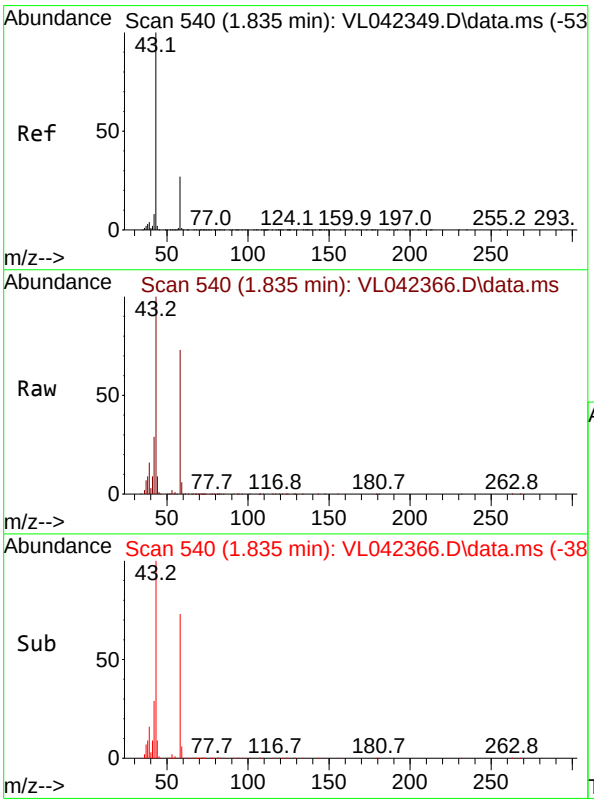
#13
Ethanol
Concen: 249.050 ppbv
RT: 1.722 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042366.D
Acq: 17 Apr 2025 20:05

Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025

Tgt Ion: 45 Resp: 370679

Ion	Ratio	Lower	Upper
45	100		
46	37.1	21.9	87.7

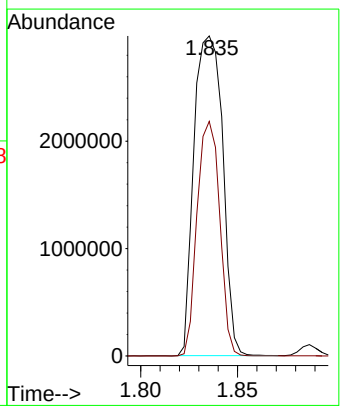


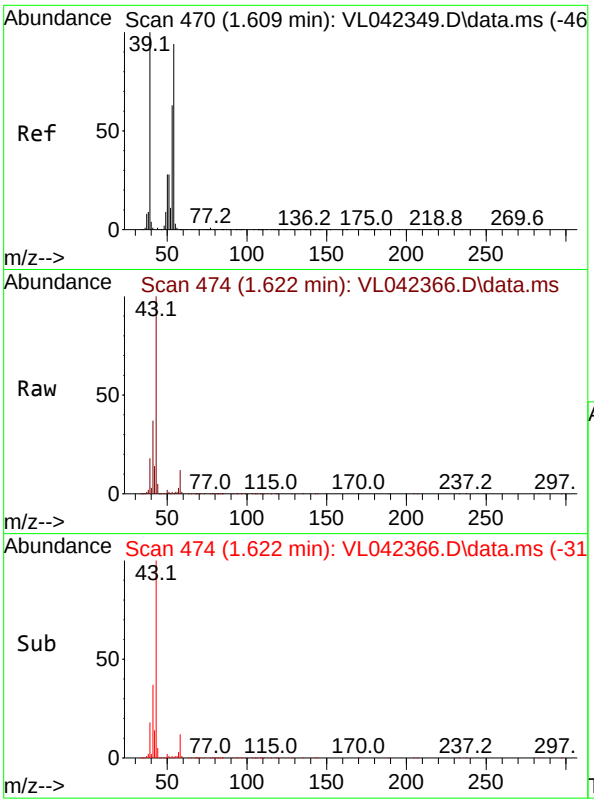


#15
Acetone
Concen: 153.552 ppbv
RT: 1.835 min Scan# 540
Delta R.T. 0.000 min
Lab File: VL042366.D
Acq: 17 Apr 2025 20:05

Tgt Ion: 43 Resp: 3072130

Ion	Ratio	Lower	Upper
43	100		
58	58.0	22.4	33.6#



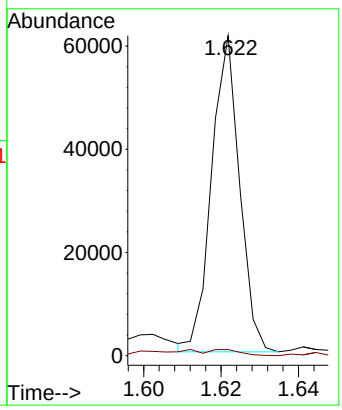


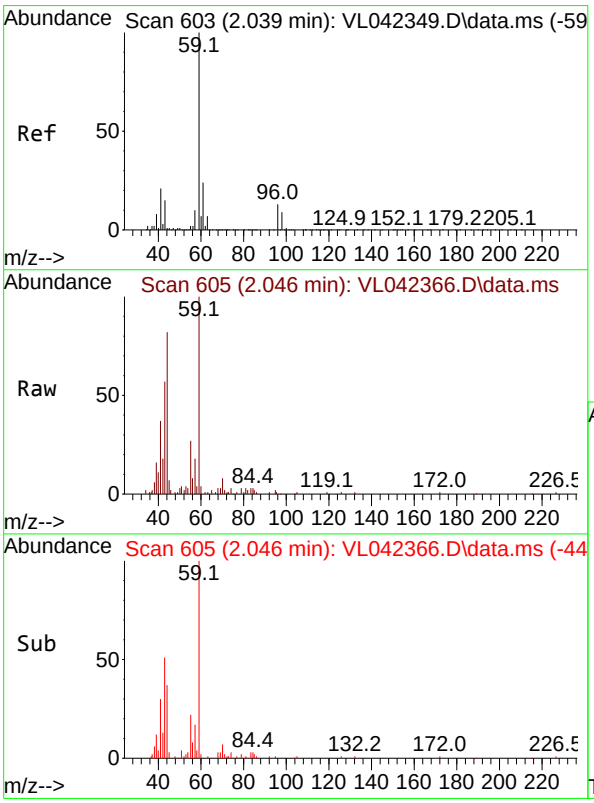
#16
1,3-Butadiene
Concen: 3.213 ppbv
RT: 1.622 min Scan# 4
Delta R.T. 0.013 min
Lab File: VL042366.D
Acq: 17 Apr 2025 20:05

Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025

Tgt Ion: 39 Resp: 30747

Ion	Ratio	Lower	Upper
39	100		
54	5.9	64.9	97.3#

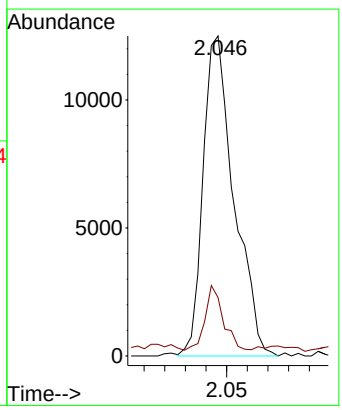


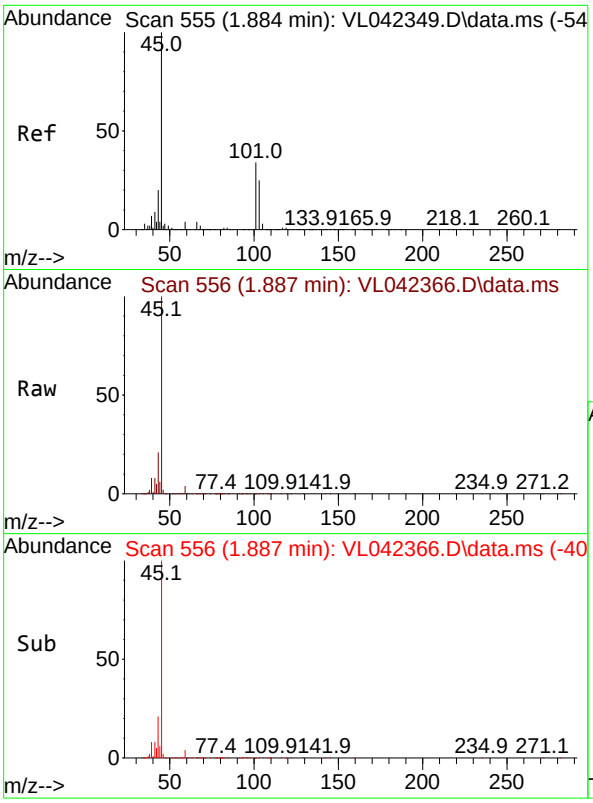


#17
tert-Butyl alcohol
Concen: 0.525 ppbv
RT: 2.046 min Scan# 605
Delta R.T. 0.007 min
Lab File: VL042366.D
Acq: 17 Apr 2025 20:05

Tgt Ion: 59 Resp: 13005

Ion	Ratio	Lower	Upper
59	100		
57	25.8	8.7	13.1#



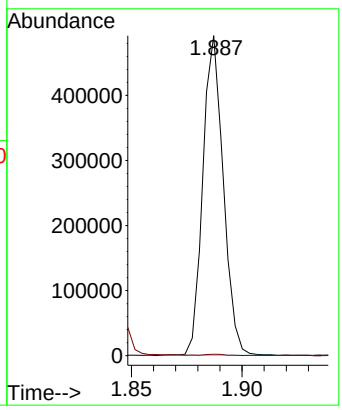


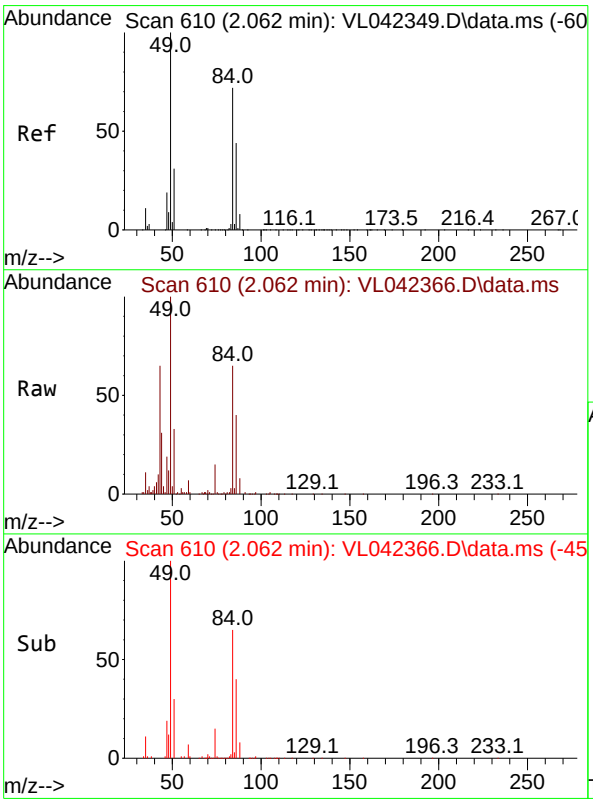
#19
Isopropyl Alcohol
Concen: 28.464 ppbv
RT: 1.887 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042366.D
Acq: 17 Apr 2025 20:05

Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025

Tgt Ion: 45 Resp: 316355

Ion	Ratio	Lower	Upper
45	100		
58	0.0	34.5	51.7#

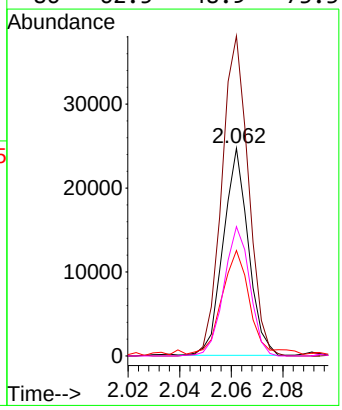


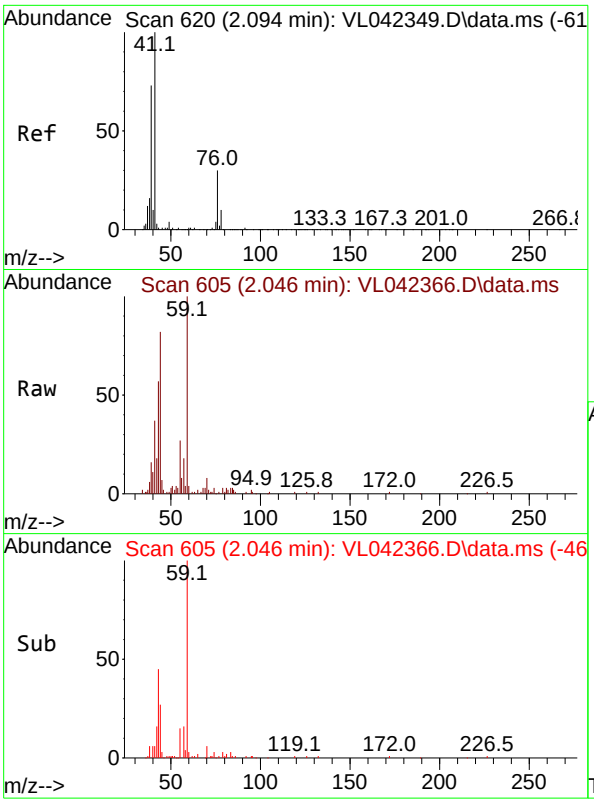


#20
Methylene Chloride
Concen: 2.130 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.000 min
Lab File: VL042366.D
Acq: 17 Apr 2025 20:05

Tgt Ion: 84 Resp: 16692

Ion	Ratio	Lower	Upper
84	100		
49	154.6	111.6	167.4
51	48.0	35.1	52.7
86	62.5	48.9	73.3



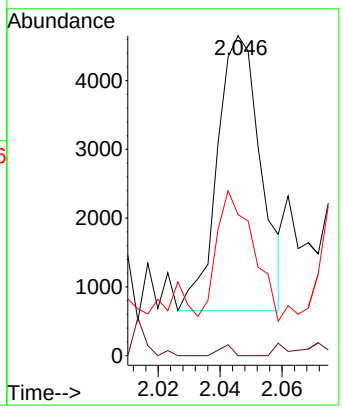


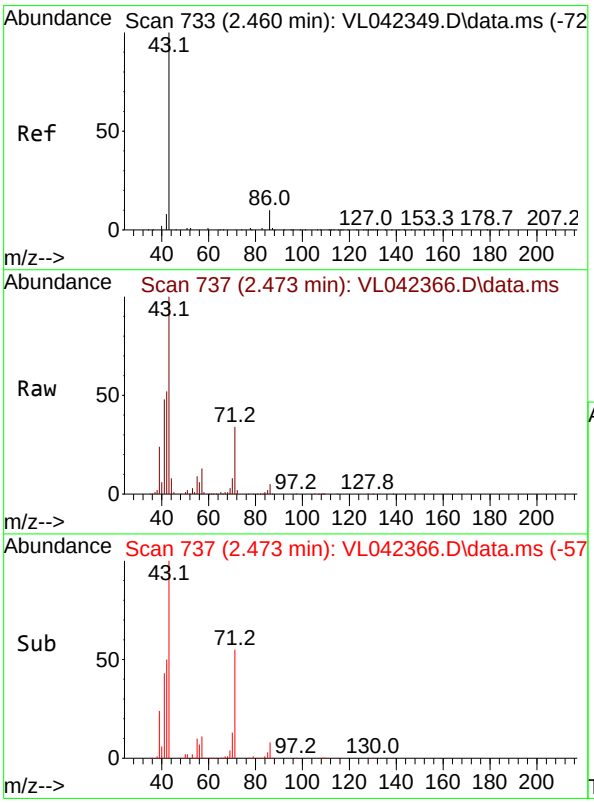
#21
Allyl Chloride
Concen: 0.283 ppbv
RT: 2.046 min Scan# 6
Delta R.T. -0.049 min
Lab File: VL042366.D
Acq: 17 Apr 2025 20:05

Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025

Tgt Ion: 41 Resp: 3913

Ion	Ratio	Lower	Upper
41	100		
76	3.4	24.8	37.2#
39	0.0	60.6	90.8#

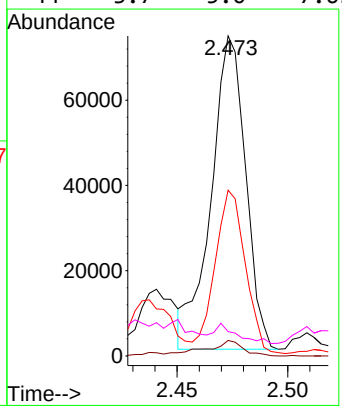


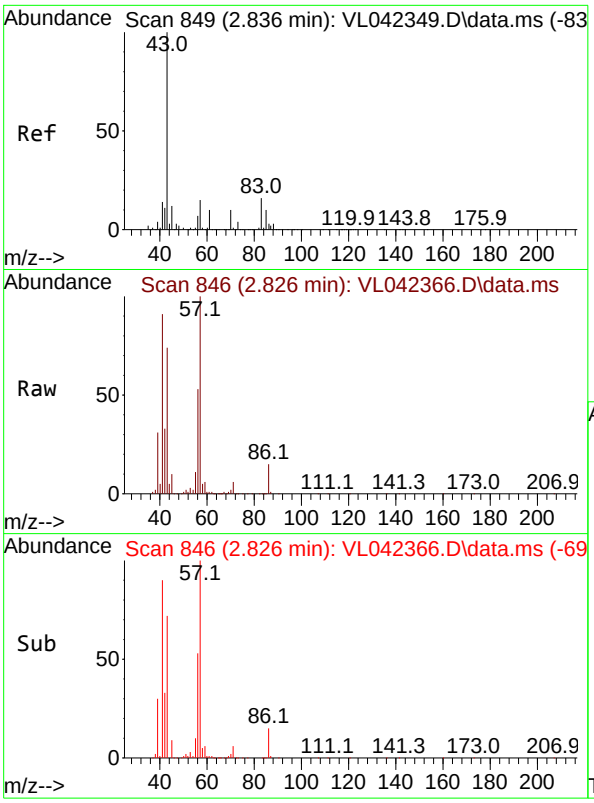


#23
Vinyl Acetate
Concen: 9.833 ppbv
RT: 2.473 min Scan# 737
Delta R.T. 0.013 min
Lab File: VL042366.D
Acq: 17 Apr 2025 20:05

Tgt Ion: 43 Resp: 79634

Ion	Ratio	Lower	Upper
43	100		
86	4.9	6.5	9.7#
42	51.9	7.8	11.8#
44	3.7	5.0	7.6#



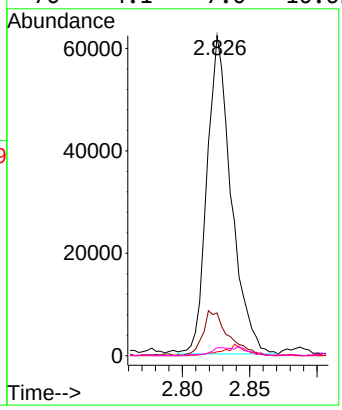


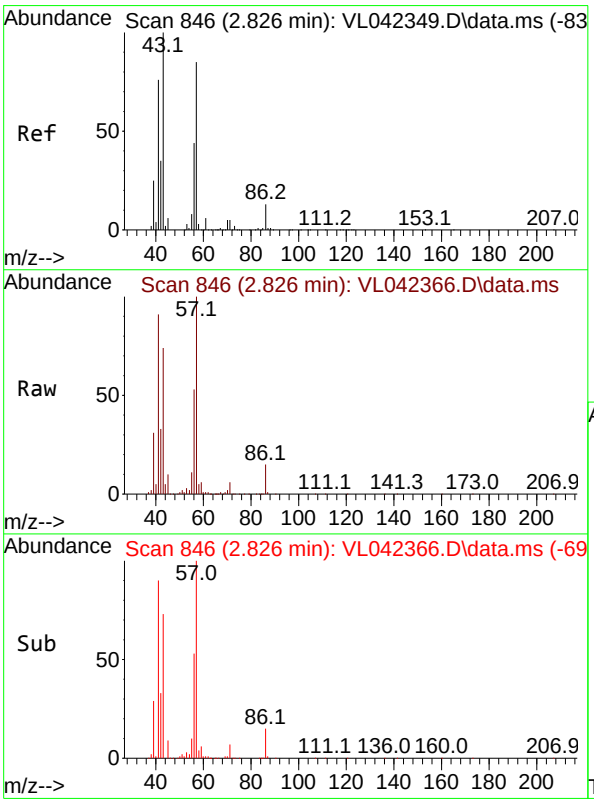
#25
Ethyl Acetate
Concen: 1.576 ppbv
RT: 2.826 min Scan# 84
Delta R.T. -0.010 min
Lab File: VL042366.D
Acq: 17 Apr 2025 20:05

Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025

Tgt Ion: 43 Resp: 77759

Ion	Ratio	Lower	Upper
43	100		
45	14.9	8.3	12.5#
61	3.5	7.3	10.9#
70	4.1	7.0	10.6#

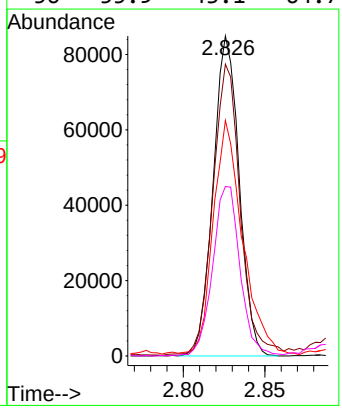


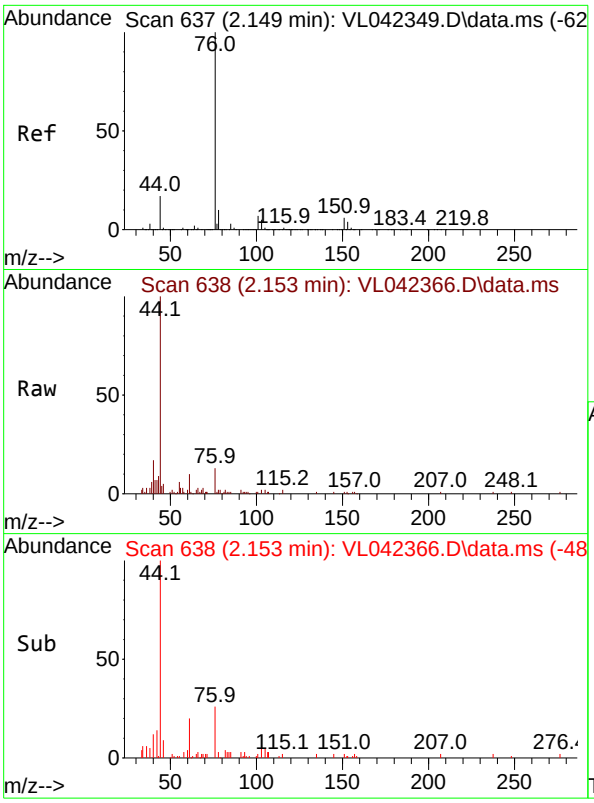


#26
Hexane
Concen: 4.717 ppbv
RT: 2.826 min Scan# 846
Delta R.T. 0.000 min
Lab File: VL042366.D
Acq: 17 Apr 2025 20:05

Tgt Ion: 57 Resp: 94163

Ion	Ratio	Lower	Upper
57	100		
41	95.7	77.9	116.9
43	83.0	208.4	312.6#
56	55.9	43.1	64.7



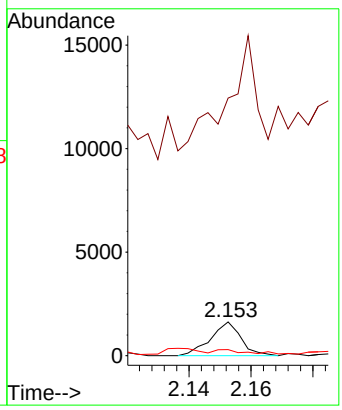


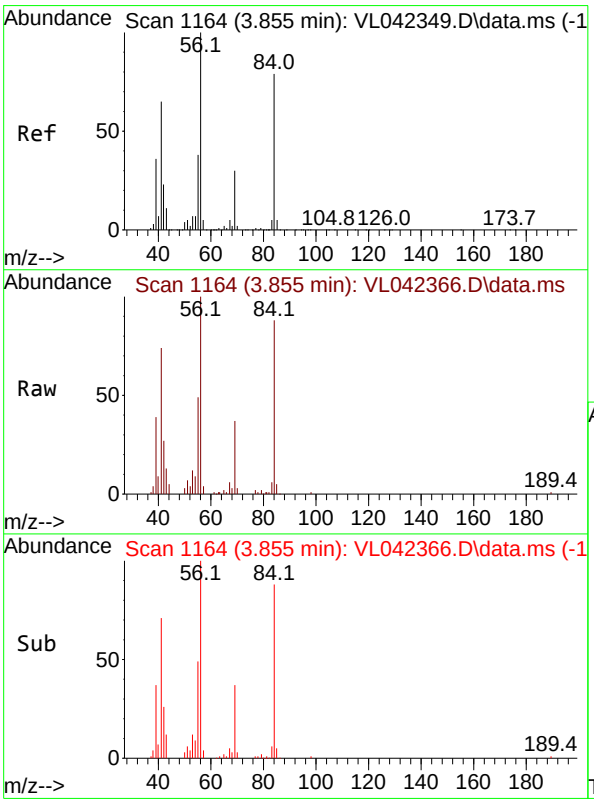
#27
Carbon Disulfide
Concen: 0.052 ppbv
RT: 2.153 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL042366.D
Acq: 17 Apr 2025 20:05

Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025

Tgt Ion: 76 Resp: 1109

Ion	Ratio	Lower	Upper
76	100		
44	0.0	15.5	23.3#
78	43.6	9.3	13.9#

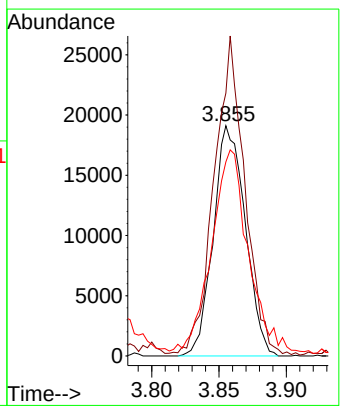


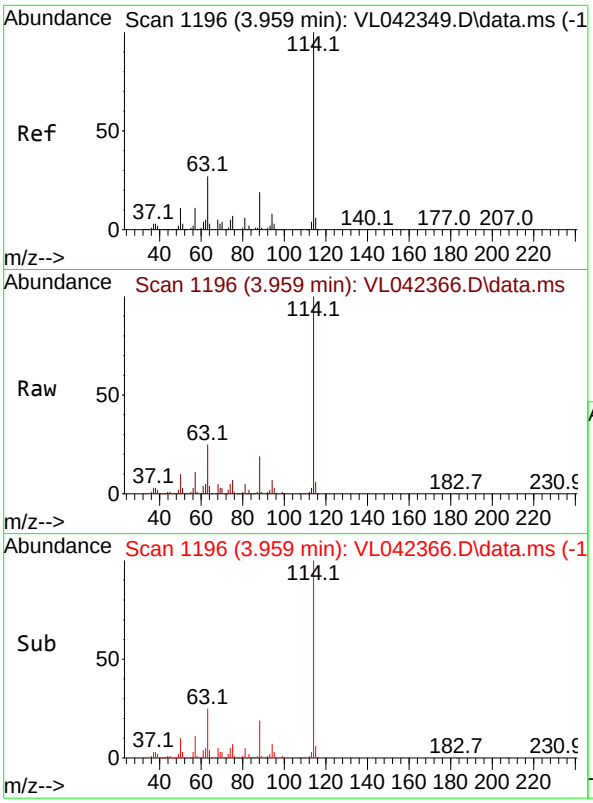


#30
Cyclohexane
Concen: 1.955 ppbv
RT: 3.855 min Scan# 1164
Delta R.T. 0.000 min
Lab File: VL042366.D
Acq: 17 Apr 2025 20:05

Tgt Ion: 84 Resp: 31546

Ion	Ratio	Lower	Upper
84	100		
56	133.1	101.0	151.4
41	102.4	67.4	101.0#



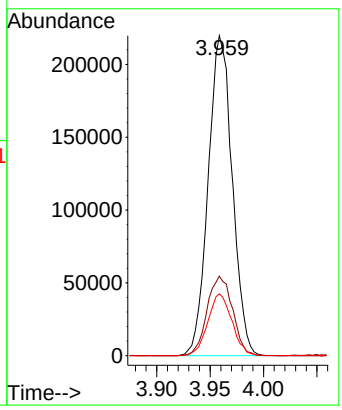


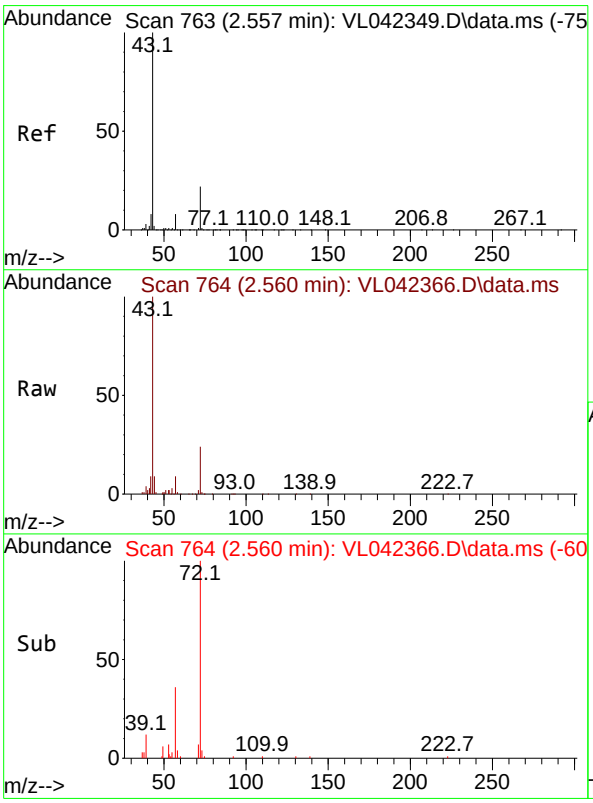
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.959 min Scan# 11
Delta R.T. 0.000 min
Lab File: VL042366.D
Acq: 17 Apr 2025 20:05

Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025

Tgt Ion:114 Resp: 344823

Ion	Ratio	Lower	Upper
114	100		
63	26.2	21.8	32.6
88	19.3	15.5	23.3

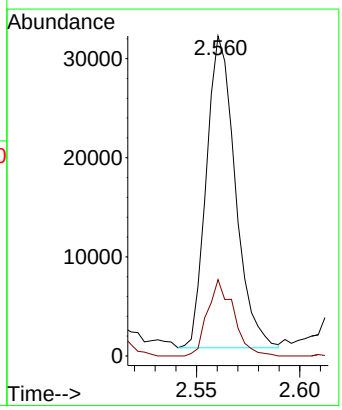


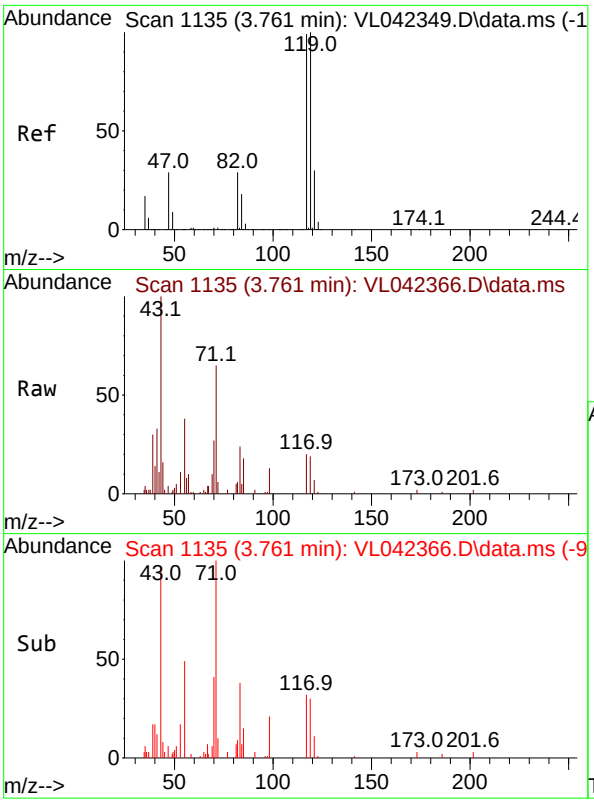


#34
2-Butanone
Concen: 1.118 ppbv
RT: 2.560 min Scan# 764
Delta R.T. 0.003 min
Lab File: VL042366.D
Acq: 17 Apr 2025 20:05

Tgt Ion: 43 Resp: 30497

Ion	Ratio	Lower	Upper
43	100		
72	22.3	18.2	27.2



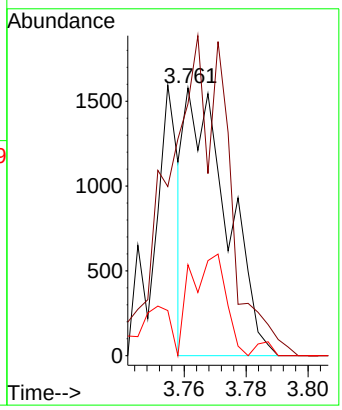


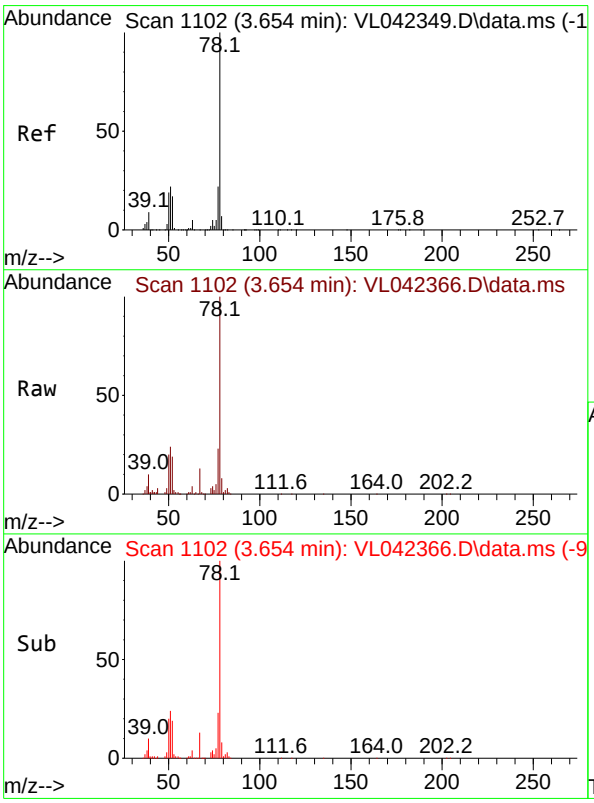
#35
Carbon Tetrachloride
Concen: 0.048 ppbv
RT: 3.761 min Scan# 11
Delta R.T. 0.000 min
Lab File: VL042366.D
Acq: 17 Apr 2025 20:05

Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025

Tgt Ion:117 Resp: 1489

Ion	Ratio	Lower	Upper
117	100		
119	88.0	80.5	120.7
121	33.9	24.2	36.2

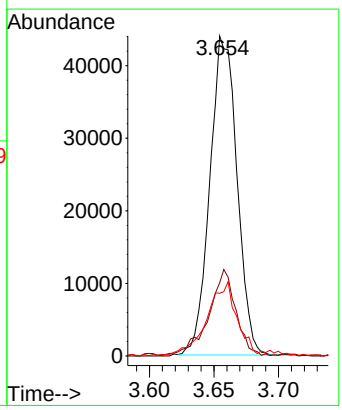


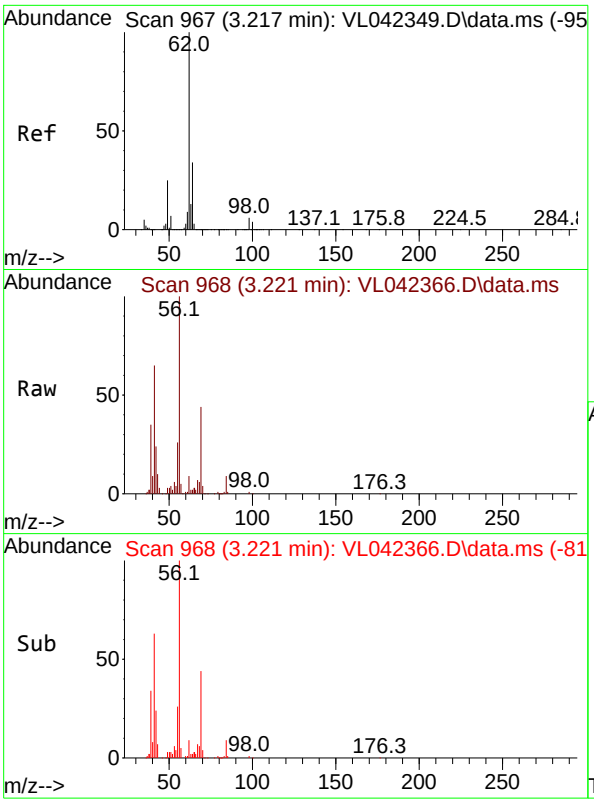


#36
Benzene
Concen: 1.727 ppbv
RT: 3.654 min Scan# 1102
Delta R.T. 0.000 min
Lab File: VL042366.D
Acq: 17 Apr 2025 20:05

Tgt Ion: 78 Resp: 64219

Ion	Ratio	Lower	Upper
78	100		
77	22.7	17.4	26.0
50	18.0	15.5	23.3



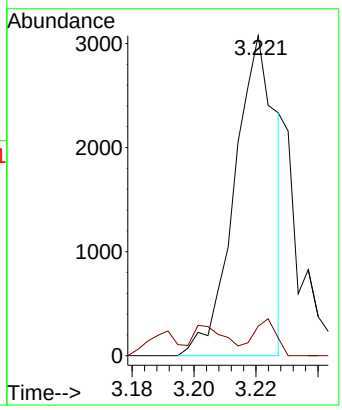


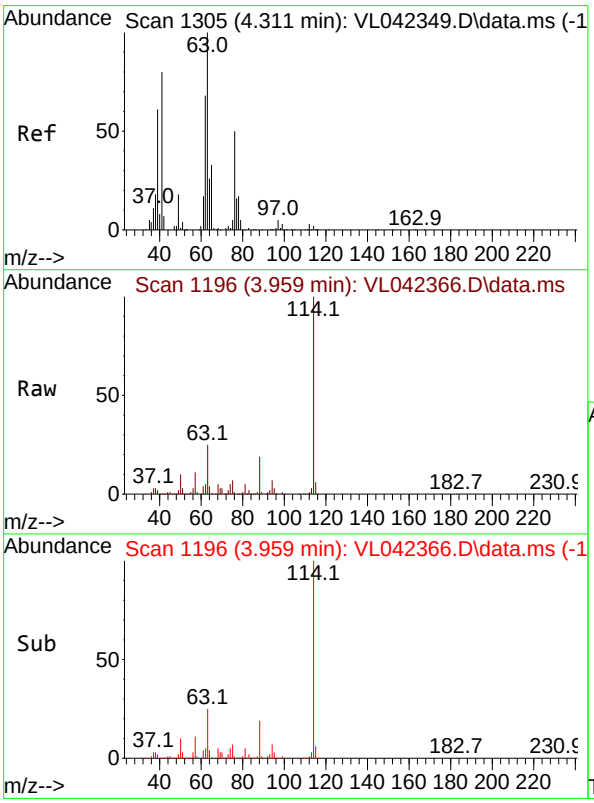
#37
1,2-Dichloroethane
Concen: 0.127 ppbv
RT: 3.221 min Scan# 9
Delta R.T. 0.003 min
Lab File: VL042366.D
Acq: 17 Apr 2025 20:05

Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025

Tgt Ion: 62 Resp: 2839

Ion	Ratio	Lower	Upper
62	100		
98	19.3	5.1	7.7#

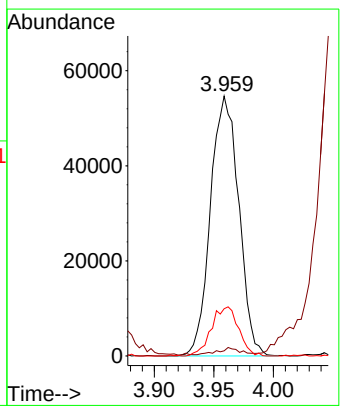


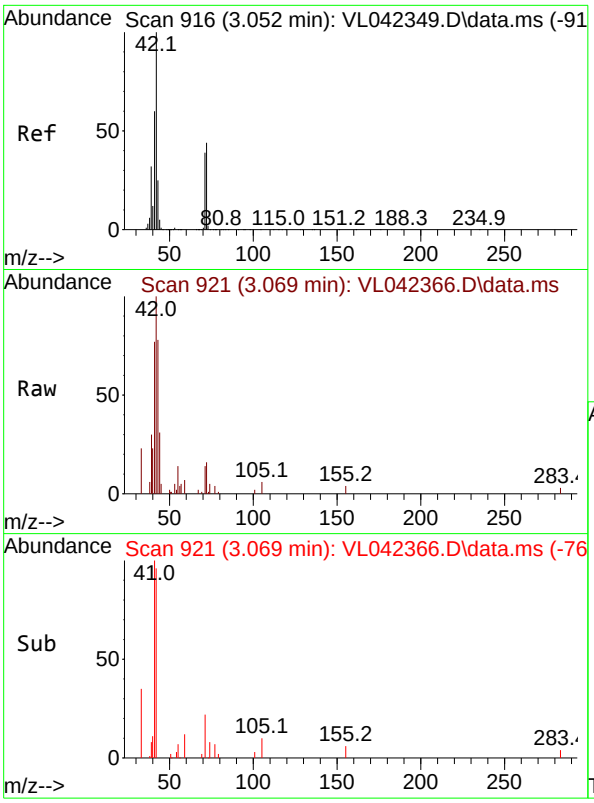


#39
1,2-Dichloropropane
Concen: 6.513 ppbv
RT: 3.959 min Scan# 1196
Delta R.T. -0.353 min
Lab File: VL042366.D
Acq: 17 Apr 2025 20:05

Tgt Ion: 63 Resp: 90263

Ion	Ratio	Lower	Upper
63	100		
41	1.6	64.2	96.2#
62	18.1	54.3	81.5#



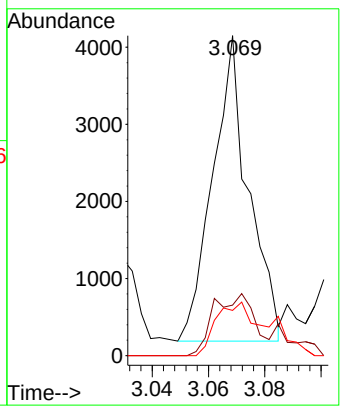


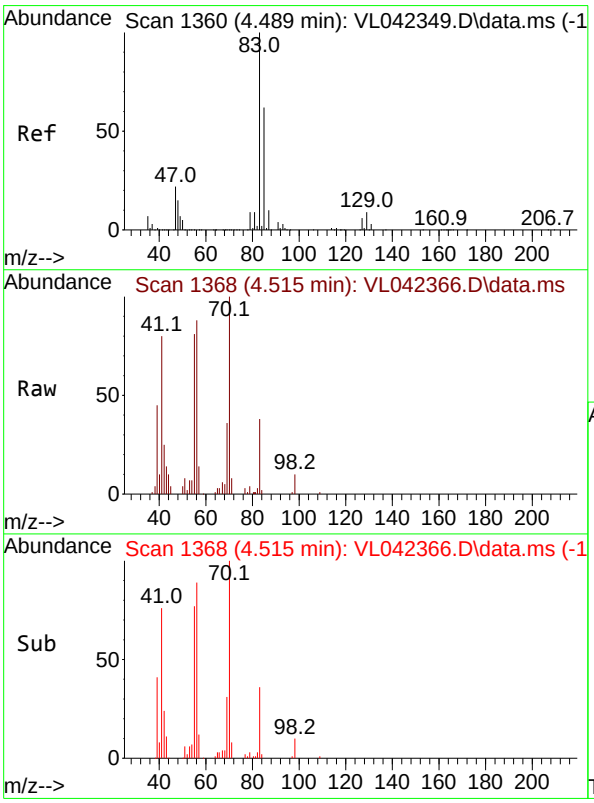
#41
Tetrahydrofuran
Concen: 0.220 ppbv
RT: 3.069 min Scan# 9
Delta R.T. 0.016 min
Lab File: VL042366.D
Acq: 17 Apr 2025 20:05

Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025

Tgt Ion: 42 Resp: 3495

Ion	Ratio	Lower	Upper
42	100		
72	29.4	32.3	48.5#
71	25.7	31.4	47.2#

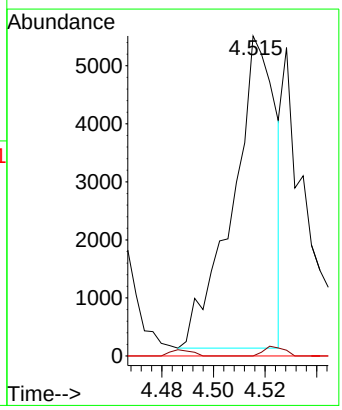


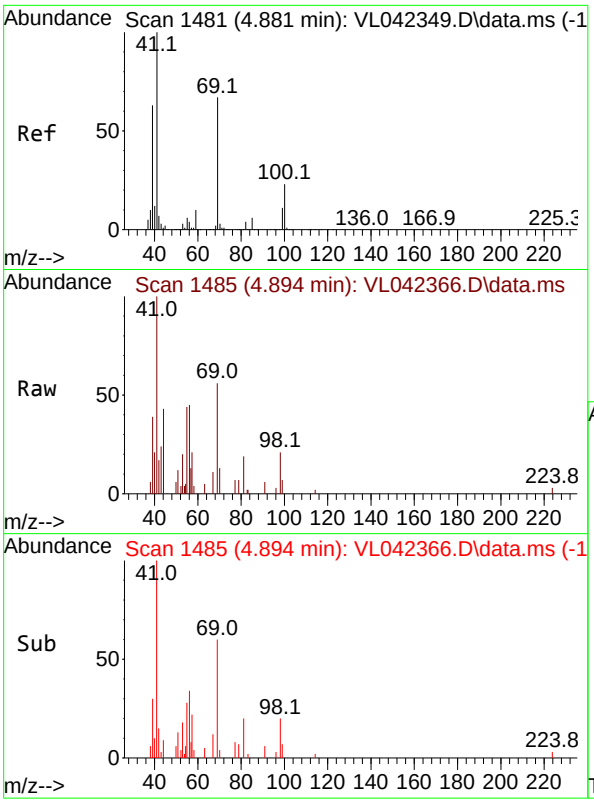


#42
Bromodichloromethane
Concen: 0.200 ppbv
RT: 4.515 min Scan# 1368
Delta R.T. 0.026 min
Lab File: VL042366.D
Acq: 17 Apr 2025 20:05

Tgt Ion: 83 Resp: 6225

Ion	Ratio	Lower	Upper
83	100		
85	0.0	49.7	74.5#
127	0.0	5.1	7.7#



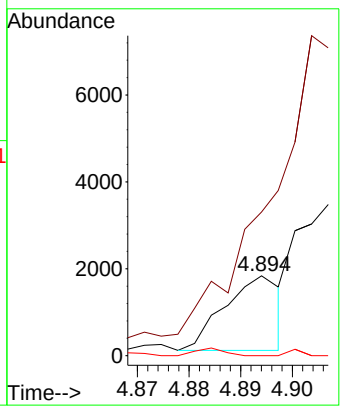


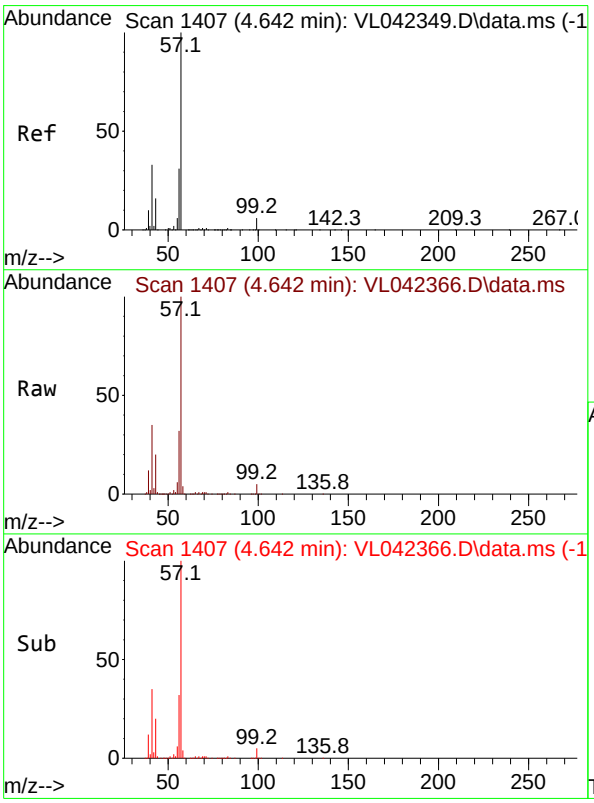
#43
Methyl Methacrylate
Concen: 0.077 ppbv
RT: 4.894 min Scan# 14
Delta R.T. 0.013 min
Lab File: VL042366.D
Acq: 17 Apr 2025 20:05

Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025

Tgt Ion: 69 Resp: 1290

Ion	Ratio	Lower	Upper
69	100		
41	0.0	118.6	177.8#
100	0.0	28.2	42.2#

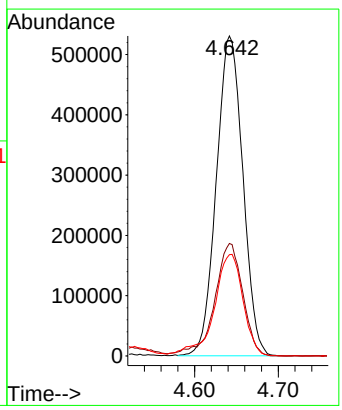


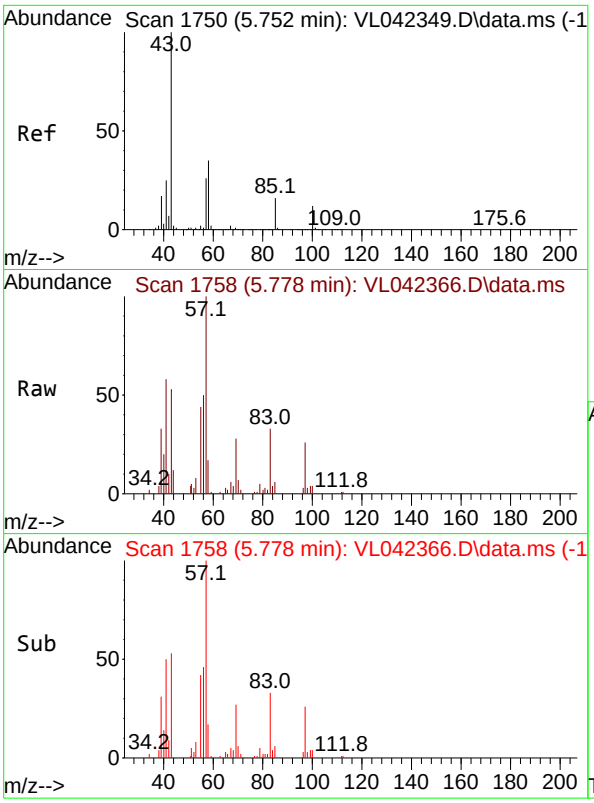


#44
2,2,4-Trimethylpentane
Concen: 18.168 ppbv
RT: 4.642 min Scan# 1407
Delta R.T. 0.000 min
Lab File: VL042366.D
Acq: 17 Apr 2025 20:05

Tgt Ion: 57 Resp: 1167050

Ion	Ratio	Lower	Upper
57	100		
41	37.2	27.2	40.8
56	34.9	25.7	38.5



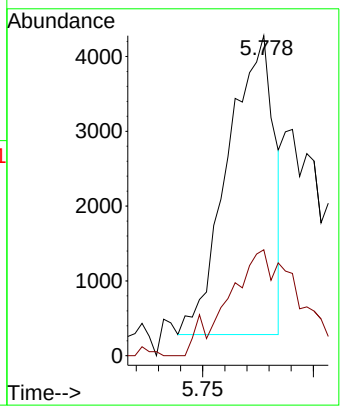


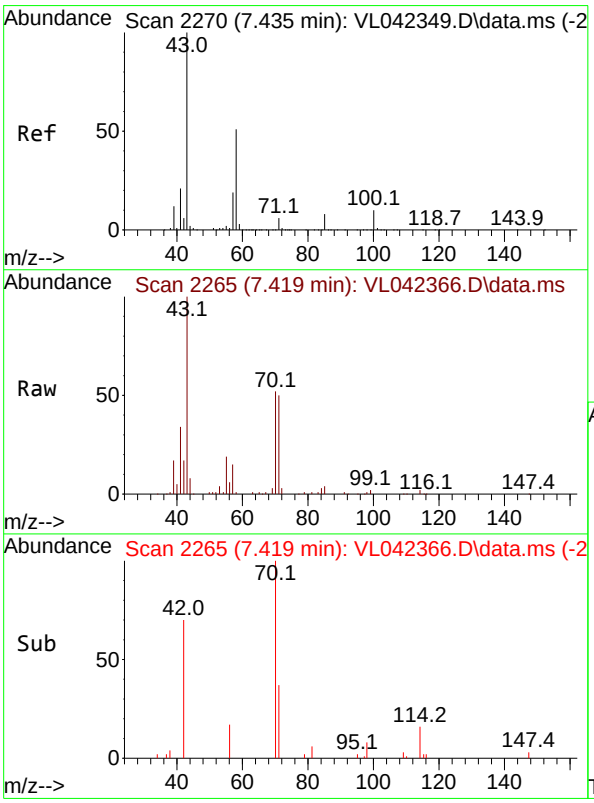
#50
4-Methyl-2-Pentanone
Concen: 0.128 ppbv
RT: 5.778 min Scan# 1
Delta R.T. 0.026 min
Lab File: VL042366.D
Acq: 17 Apr 2025 20:05

Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025

Tgt Ion: 43 Resp: 5813

Ion	Ratio	Lower	Upper
43	100		
58	58.9	28.6	43.0#

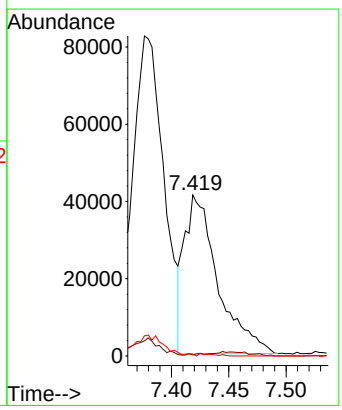


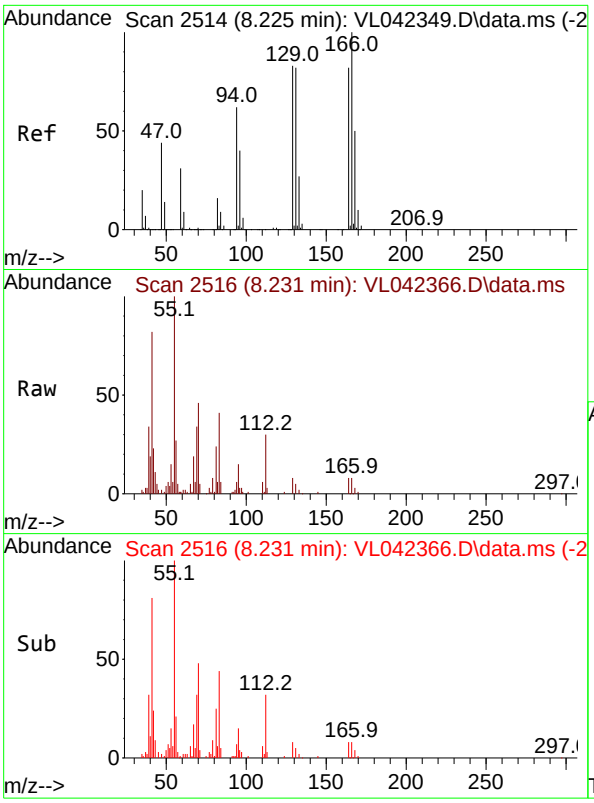


#51
2-Hexanone
Concen: 2.057 ppbv
RT: 7.419 min Scan# 2265
Delta R.T. -0.016 min
Lab File: VL042366.D
Acq: 17 Apr 2025 20:05

Tgt Ion: 43 Resp: 83604

Ion	Ratio	Lower	Upper
43	100		
58	3.4	40.2	60.4#
98	0.6	0.1	0.1#



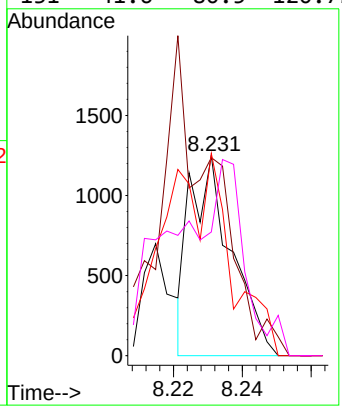


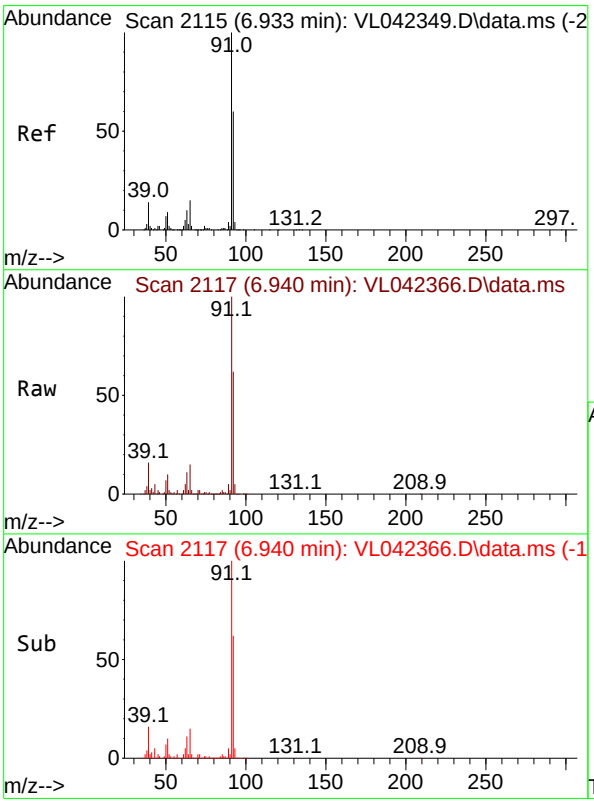
#52
Tetrachloroethene
Concen: 0.073 ppbv
RT: 8.231 min Scan# 2
Delta R.T. 0.006 min
Lab File: VL042366.D
Acq: 17 Apr 2025 20:05

Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025

Tgt Ion:164 Resp: 1048

Ion	Ratio	Lower	Upper
164	100		
166	94.3	98.2	147.2#
129	101.0	81.8	122.8
131	41.6	80.5	120.7#

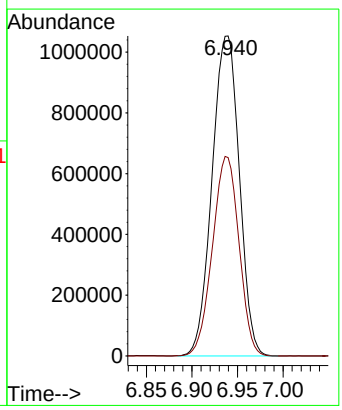


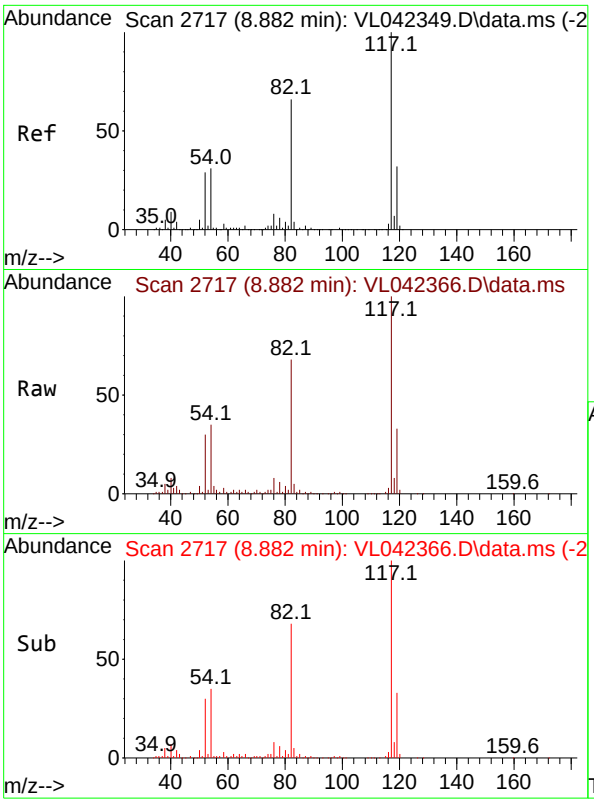


#53
Toluene
Concen: 49.165 ppbv
RT: 6.940 min Scan# 2117
Delta R.T. 0.006 min
Lab File: VL042366.D
Acq: 17 Apr 2025 20:05

Tgt Ion: 91 Resp: 2194341

Ion	Ratio	Lower	Upper
91	100		
92	60.7	48.2	72.4



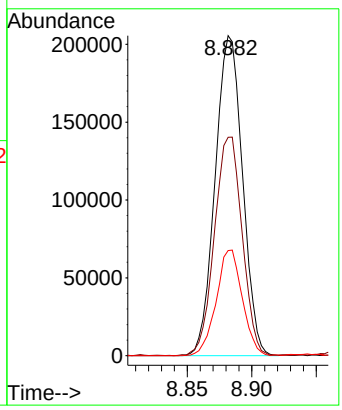


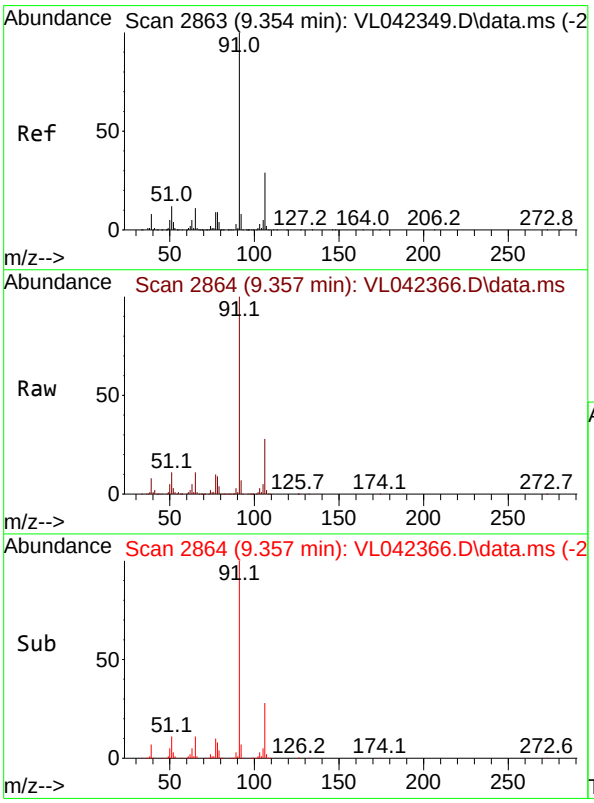
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.882 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042366.D
Acq: 17 Apr 2025 20:05

Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025

Tgt Ion:117 Resp: 303405

Ion	Ratio	Lower	Upper
117	100		
82	69.2	57.8	86.6
119	31.6	25.2	37.8

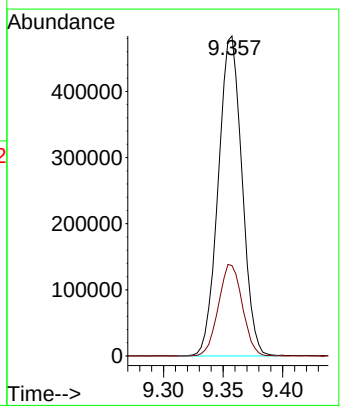


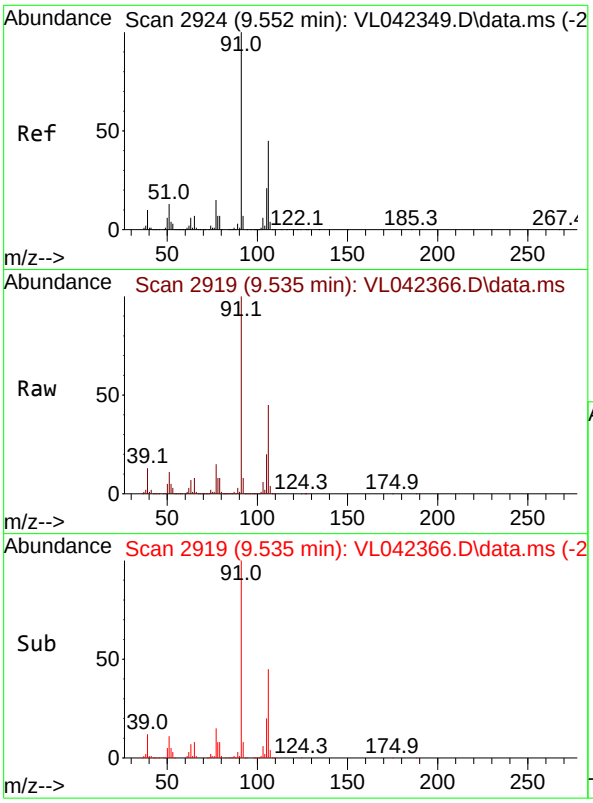


#58
Ethyl Benzene
Concen: 11.113 ppbv
RT: 9.357 min Scan# 2864
Delta R.T. 0.003 min
Lab File: VL042366.D
Acq: 17 Apr 2025 20:05

Tgt Ion: 91 Resp: 668072

Ion	Ratio	Lower	Upper
91	100		
106	28.3	23.0	34.4



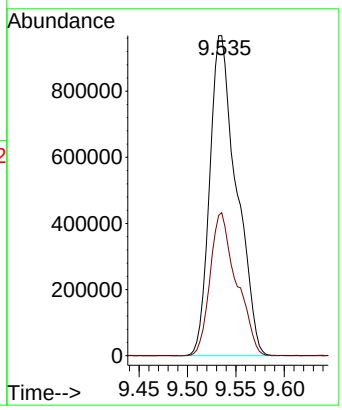


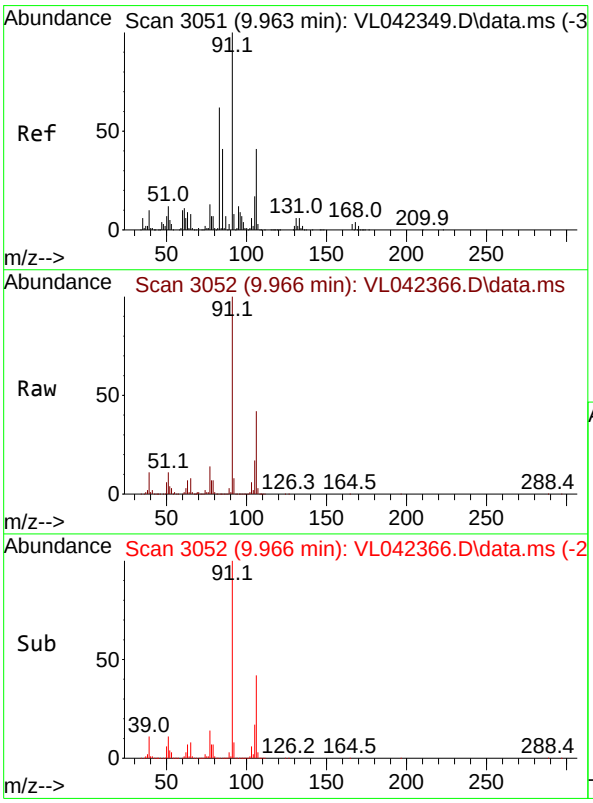
#59
m/p-Xylene
Concen: 38.435 ppbv
RT: 9.535 min Scan# 2
Delta R.T. -0.016 min
Lab File: VL042366.D
Acq: 17 Apr 2025 20:05

Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025

Tgt Ion: 91 Resp: 1861243

Ion	Ratio	Lower	Upper
91	100		
106	44.0	35.4	53.2

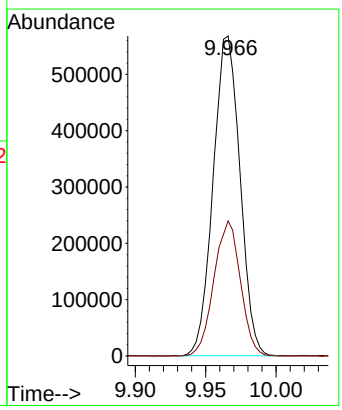


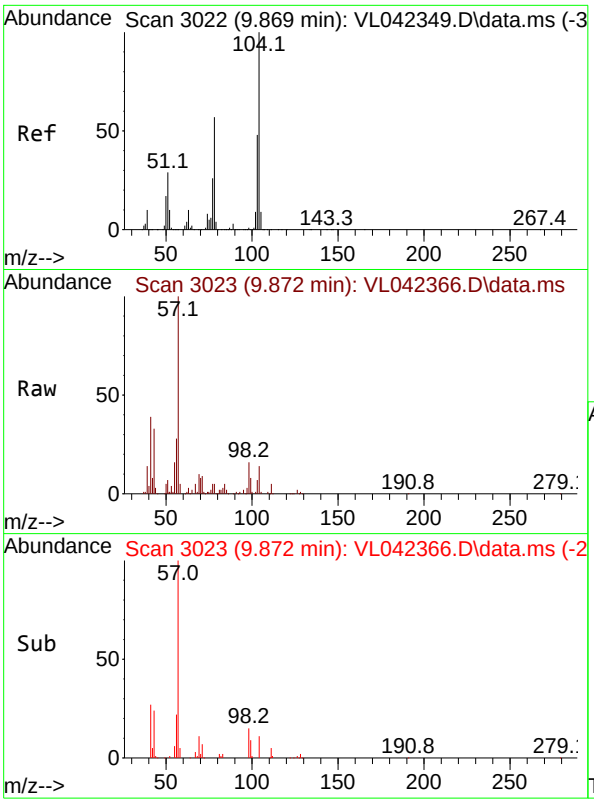


#60
o-Xylene
Concen: 15.456 ppbv
RT: 9.966 min Scan# 3052
Delta R.T. 0.003 min
Lab File: VL042366.D
Acq: 17 Apr 2025 20:05

Tgt Ion: 91 Resp: 753743

Ion	Ratio	Lower	Upper
91	100		
106	41.7	21.1	63.4



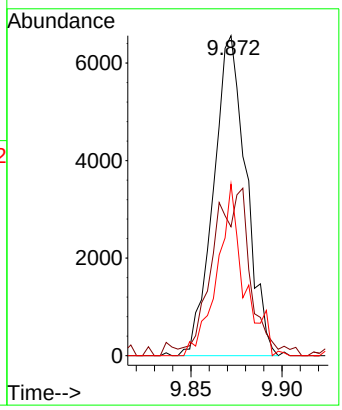


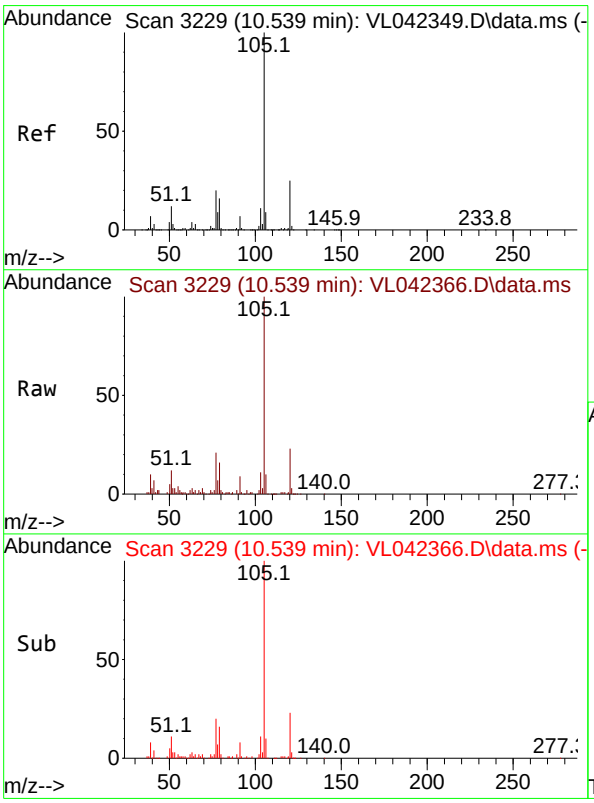
#61
Styrene
Concen: 0.351 ppbv
RT: 9.872 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042366.D
Acq: 17 Apr 2025 20:05

Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025

Tgt Ion:104 Resp: 8179

Ion	Ratio	Lower	Upper
104	100		
78	64.5	44.6	66.8
103	44.3	37.4	56.0

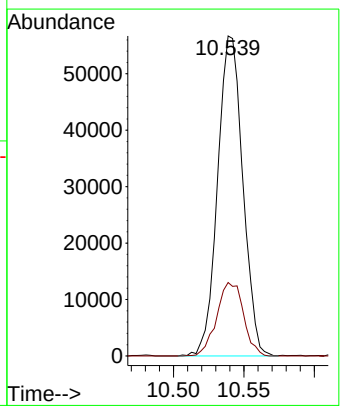


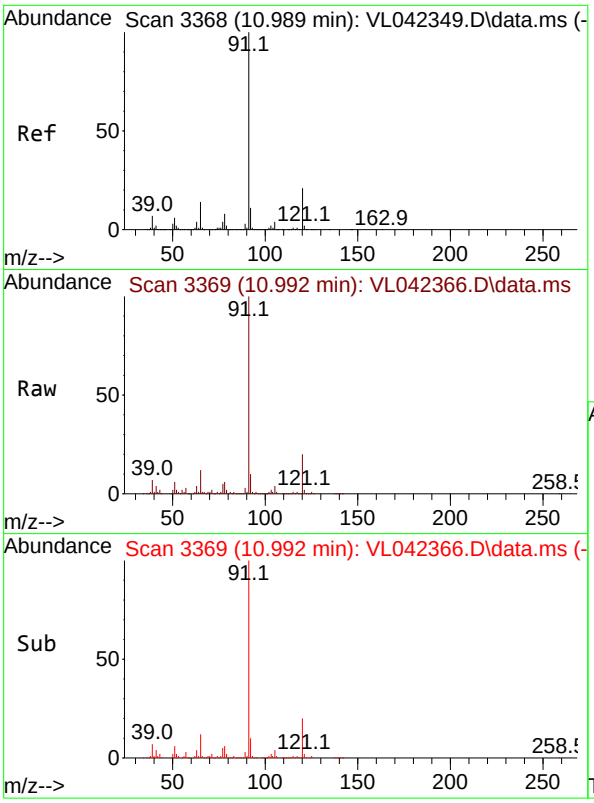


#62
Isopropylbenzene
Concen: 0.987 ppbv
RT: 10.539 min Scan# 3229
Delta R.T. 0.000 min
Lab File: VL042366.D
Acq: 17 Apr 2025 20:05

Tgt Ion:105 Resp: 70653

Ion	Ratio	Lower	Upper
105	100		
120	24.4	19.8	29.8



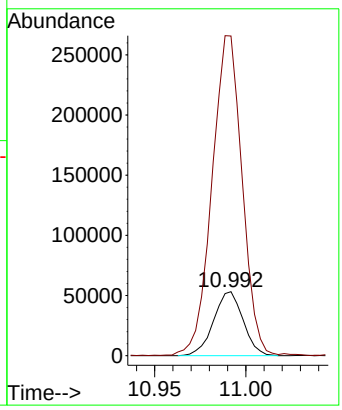


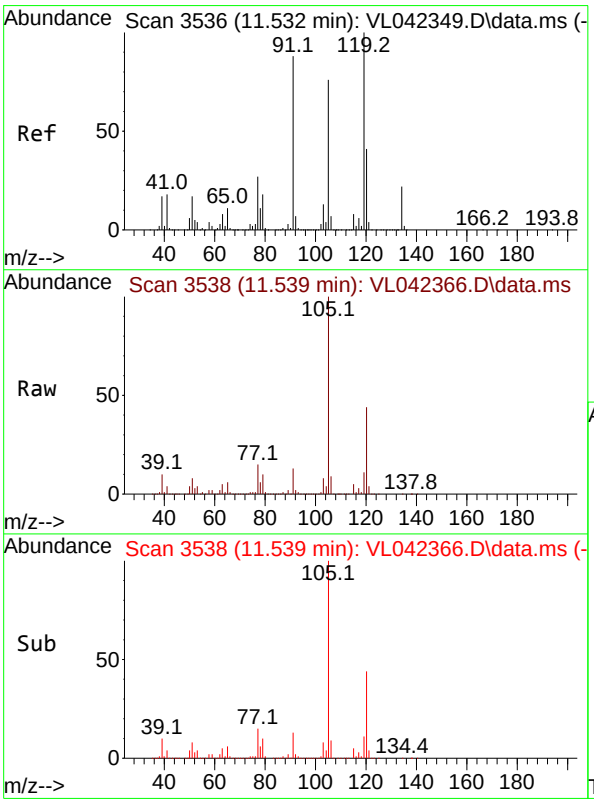
#64
n-propylbenzene
Concen: 3.324 ppbv
RT: 10.992 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042366.D
Acq: 17 Apr 2025 20:05

Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025

Tgt Ion:120 Resp: 59824

Ion	Ratio	Lower	Upper
120	100		
91	511.6	392.4	588.6

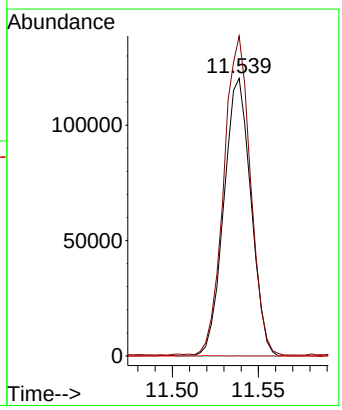


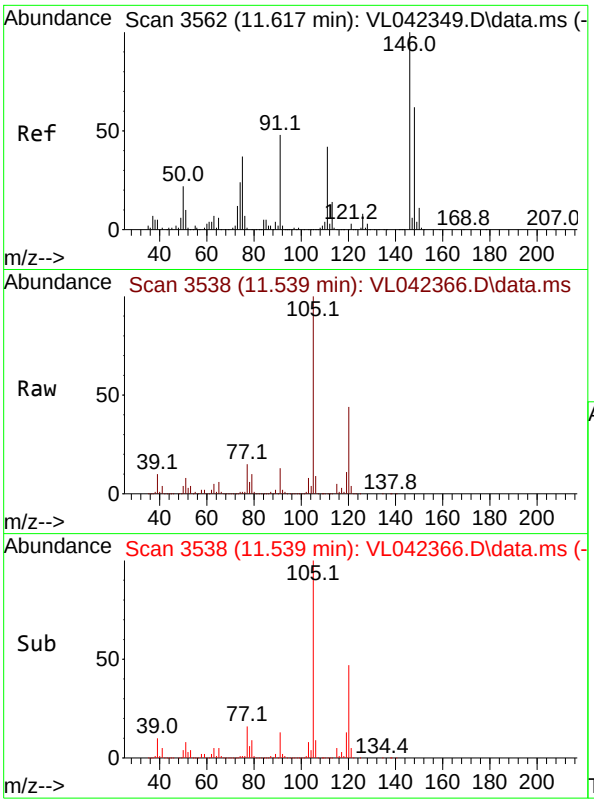


#65
tert-Butylbenzene
Concen: 1.999 ppbv
RT: 11.539 min Scan# 3538
Delta R.T. 0.006 min
Lab File: VL042366.D
Acq: 17 Apr 2025 20:05

Tgt Ion:119 Resp: 131539

Ion	Ratio	Lower	Upper
119	100		
91	114.4	74.6	111.8#
134	0.0	18.8	28.2#



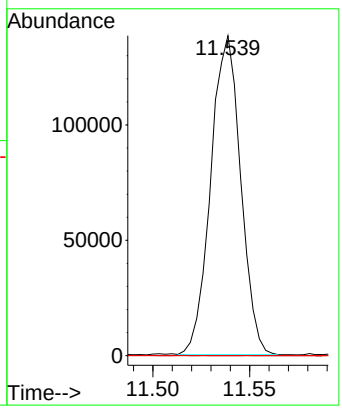


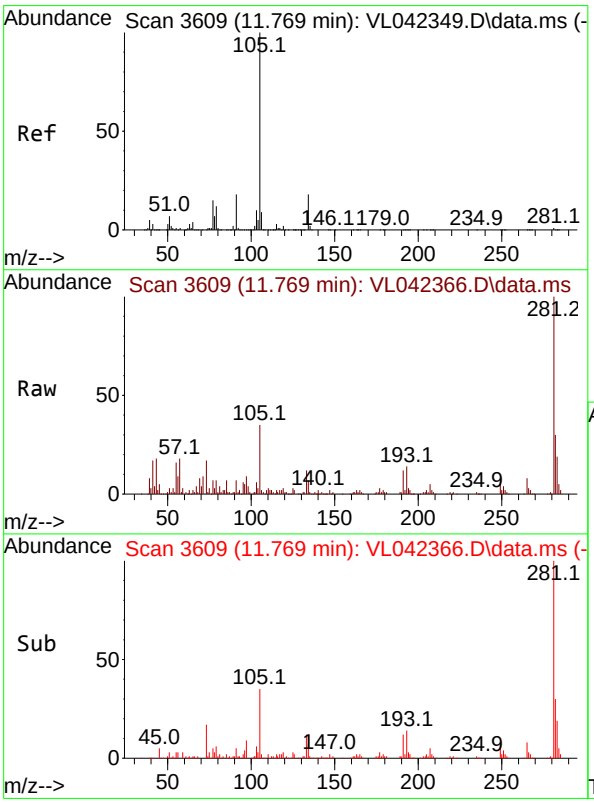
#66
Benzyl Chloride
Concen: 20.553 ppbv
RT: 11.539 min Scan# 3
Delta R.T. -0.078 min
Lab File: VL042366.D
Acq: 17 Apr 2025 20:05

Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025

Tgt Ion: 91 Resp: 148615

Ion	Ratio	Lower	Upper
91	100		
126	0.1	11.8	17.6#
128	0.0	4.5	6.7#

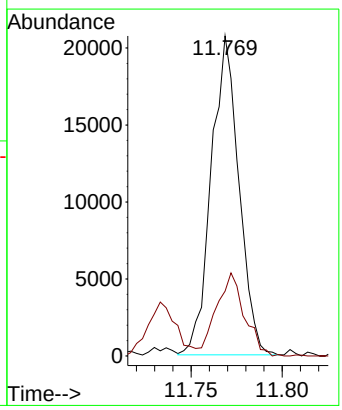


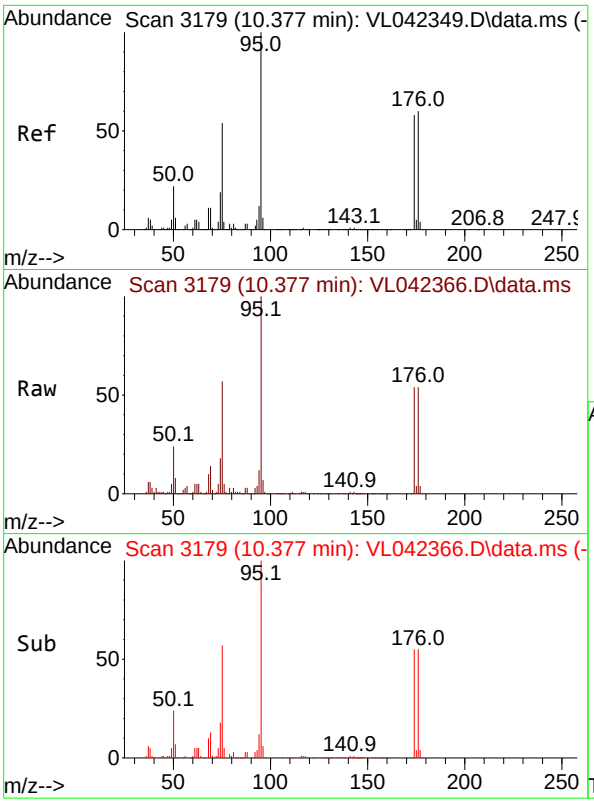


#67
sec-Butylbenzene
Concen: 0.239 ppbv
RT: 11.769 min Scan# 3609
Delta R.T. 0.000 min
Lab File: VL042366.D
Acq: 17 Apr 2025 20:05

Tgt Ion:105 Resp: 21870

Ion	Ratio	Lower	Upper
105	100		
134	26.0	14.6	21.8#



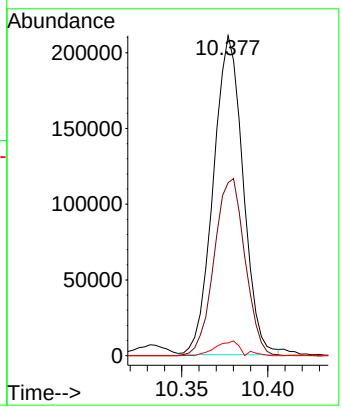


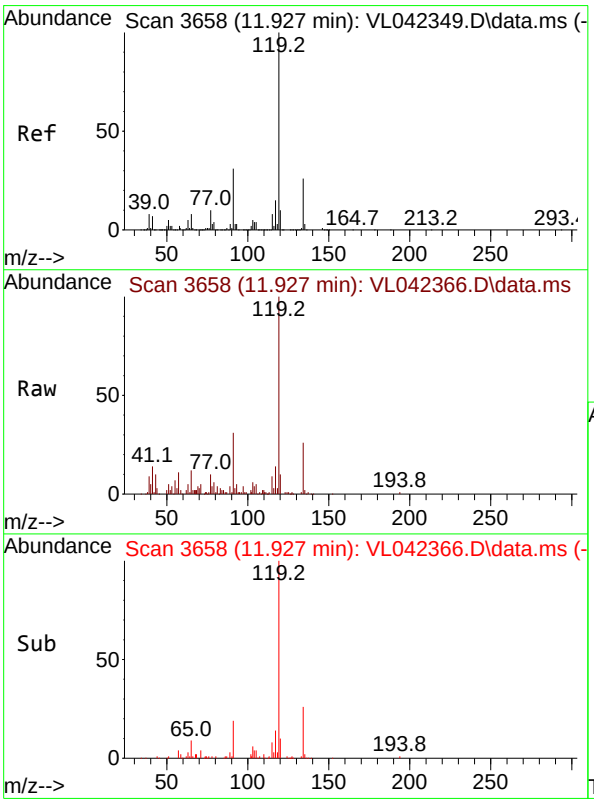
#68
1-Bromo-4-Fluorobenzene
Concen: 10.136 ppbv
RT: 10.377 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042366.D
Acq: 17 Apr 2025 20:05

Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025

Tgt Ion: 95 Resp: 252701

Ion	Ratio	Lower	Upper
95	100		
174	57.6	48.5	72.7
175	4.0	3.7	5.5

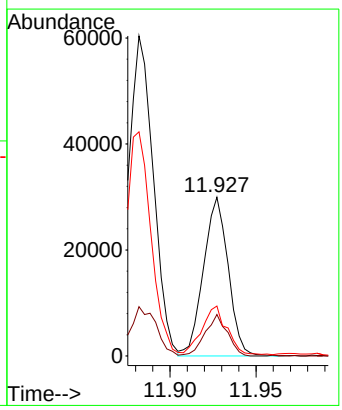


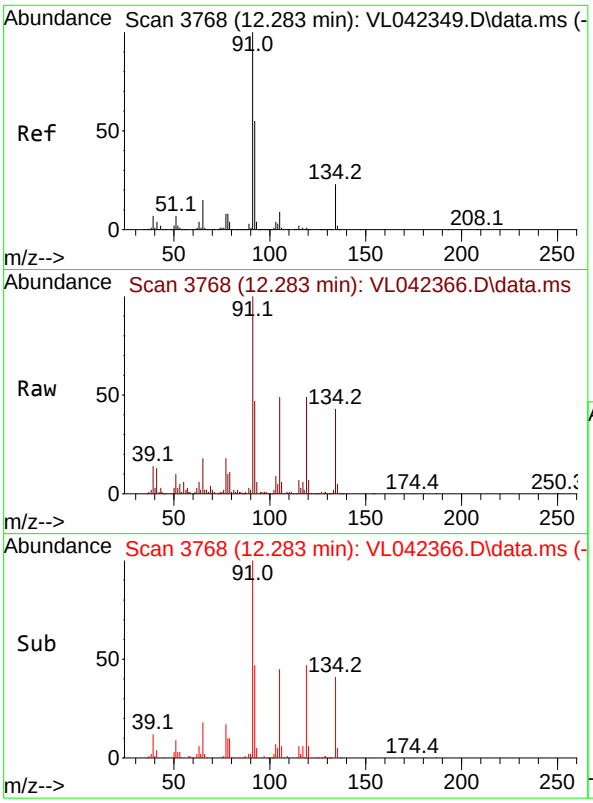


#69
p-Isopropyltoluene
Concen: 0.377 ppbv
RT: 11.927 min Scan# 3658
Delta R.T. 0.000 min
Lab File: VL042366.D
Acq: 17 Apr 2025 20:05

Tgt Ion:119 Resp: 29958

Ion	Ratio	Lower	Upper
119	100		
134	23.7	20.0	30.0
91	29.2	24.4	36.6



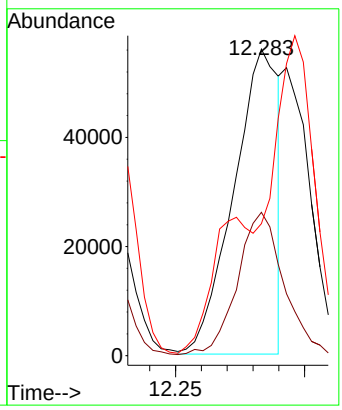


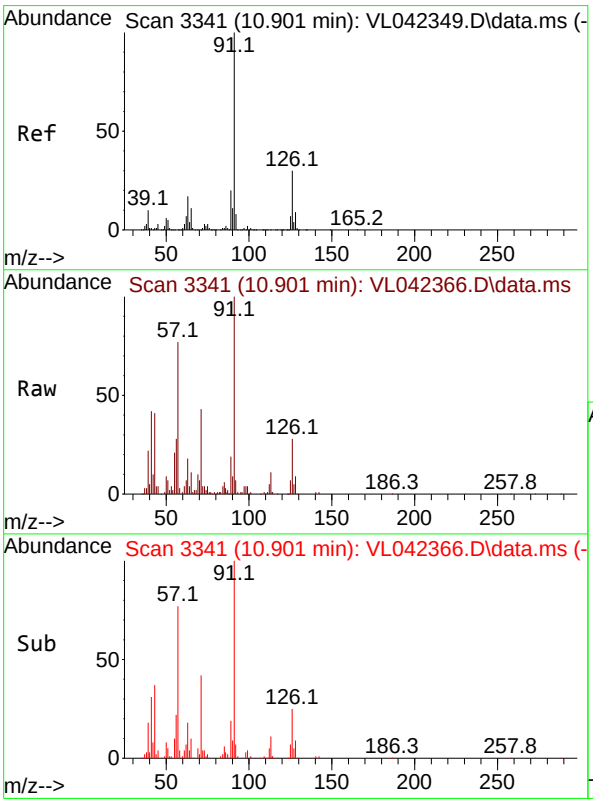
#70
n-Butylbenzene
Concen: 0.812 ppbv
RT: 12.283 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042366.D
Acq: 17 Apr 2025 20:05

Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025

Tgt Ion: 91 Resp: 67288

Ion	Ratio	Lower	Upper
91	100		
92	50.3	44.2	66.4
134	0.0	18.2	27.4#

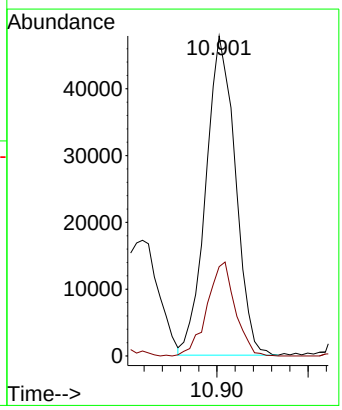


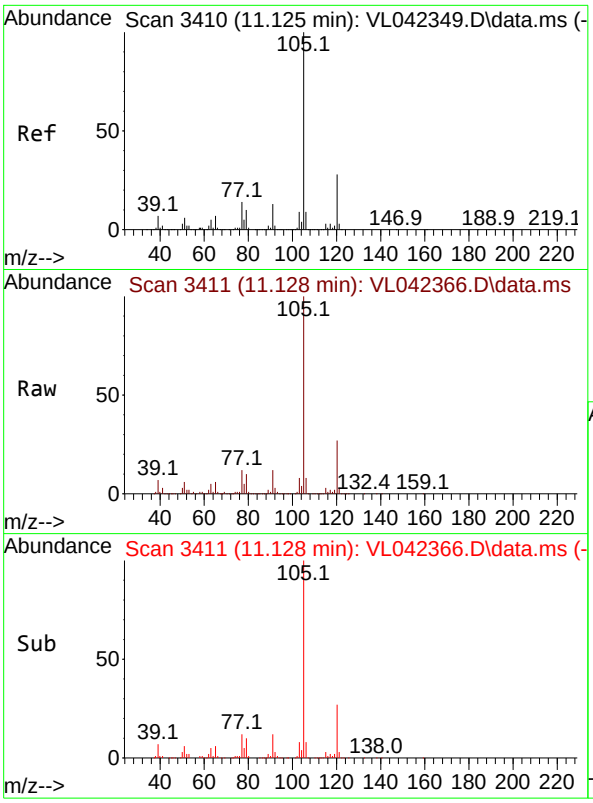


#71
2-Chlorotoluene
Concen: 0.958 ppbv
RT: 10.901 min Scan# 3341
Delta R.T. 0.000 min
Lab File: VL042366.D
Acq: 17 Apr 2025 20:05

Tgt Ion: 91 Resp: 53769

Ion	Ratio	Lower	Upper
91	100		
126	28.0	11.4	45.4



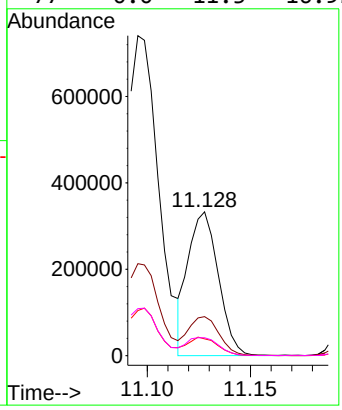


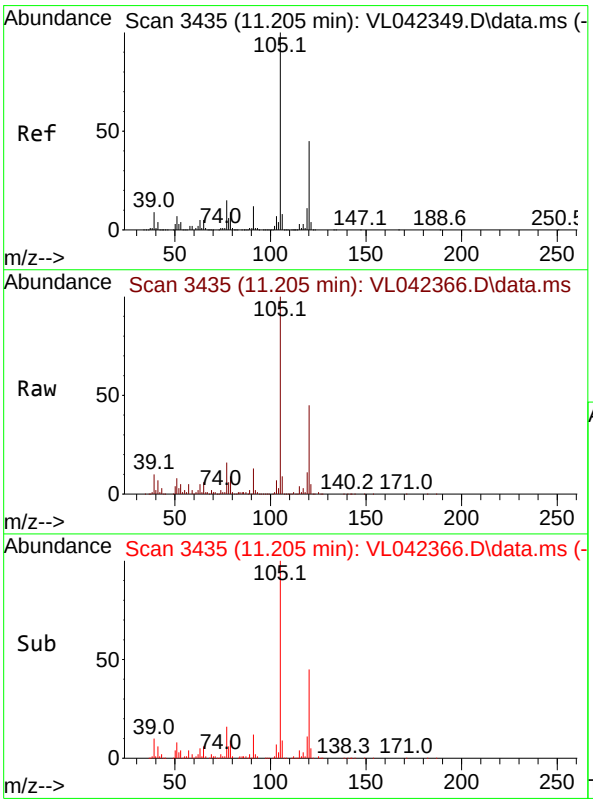
#72
4-Ethyltoluene
Concen: 5.685 ppbv
RT: 11.128 min Scan# 34
Delta R.T. 0.003 min
Lab File: VL042366.D
Acq: 17 Apr 2025 20:05

Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025

Tgt Ion:105 Resp: 338919

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#

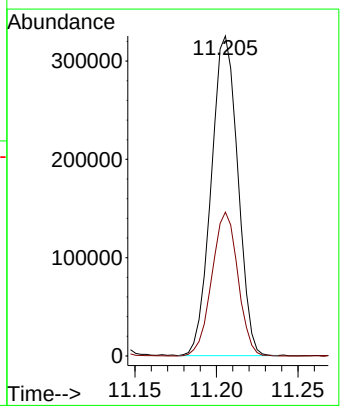


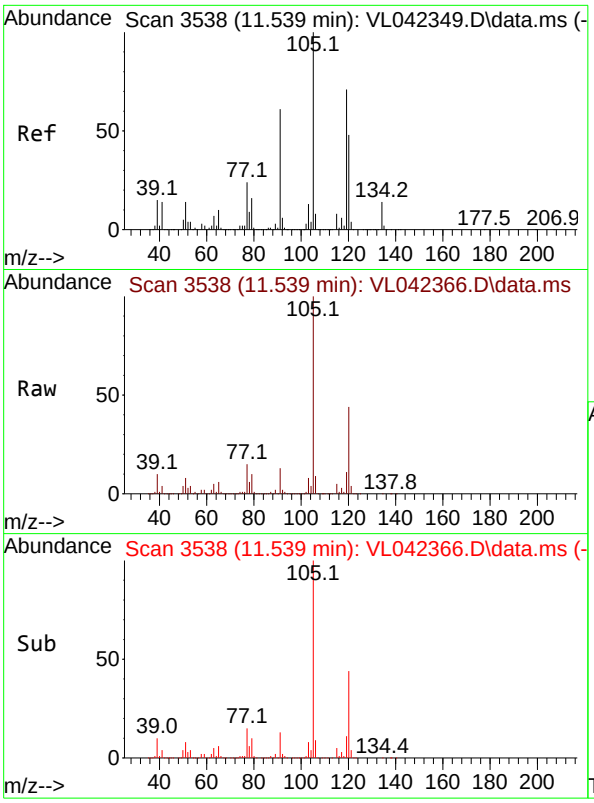


#73
1,3,5-Trimethylbenzene
Concen: 7.008 ppbv
RT: 11.205 min Scan# 3435
Delta R.T. 0.000 min
Lab File: VL042366.D
Acq: 17 Apr 2025 20:05

Tgt Ion:105 Resp: 368859

Ion	Ratio	Lower	Upper
105	100		
120	45.0	35.6	53.4



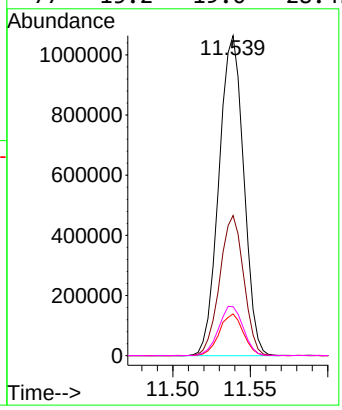


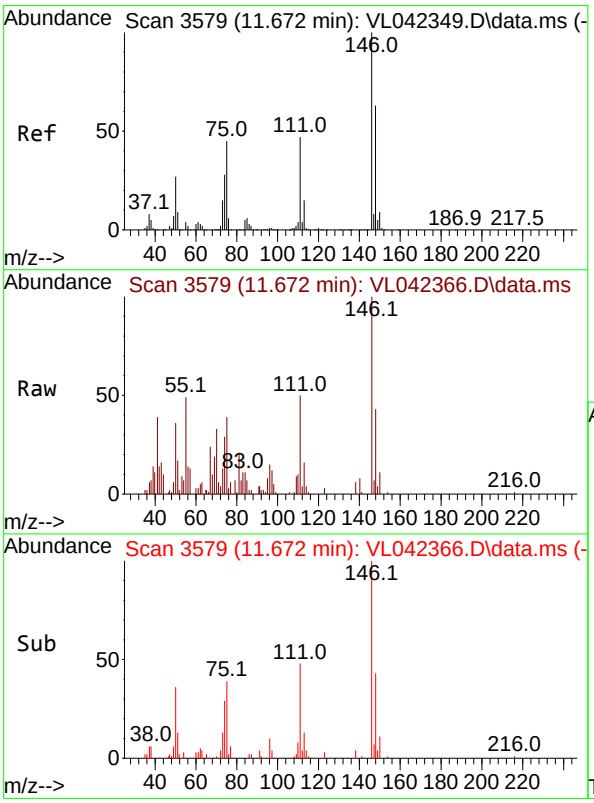
#74
1,2,4-Trimethylbenzene
Concen: 19.268 ppbv
RT: 11.539 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042366.D
Acq: 17 Apr 2025 20:05

Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025

Tgt Ion:105 Resp: 1184512

Ion	Ratio	Lower	Upper
105	100		
120	43.8	38.1	57.1
91	13.0	48.8	73.2#
77	15.2	19.0	28.4#

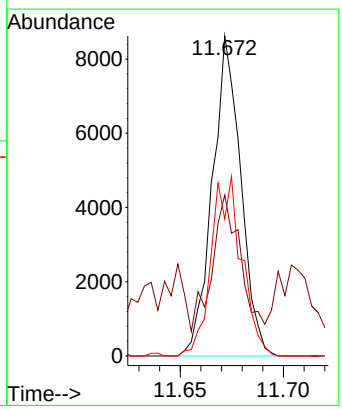


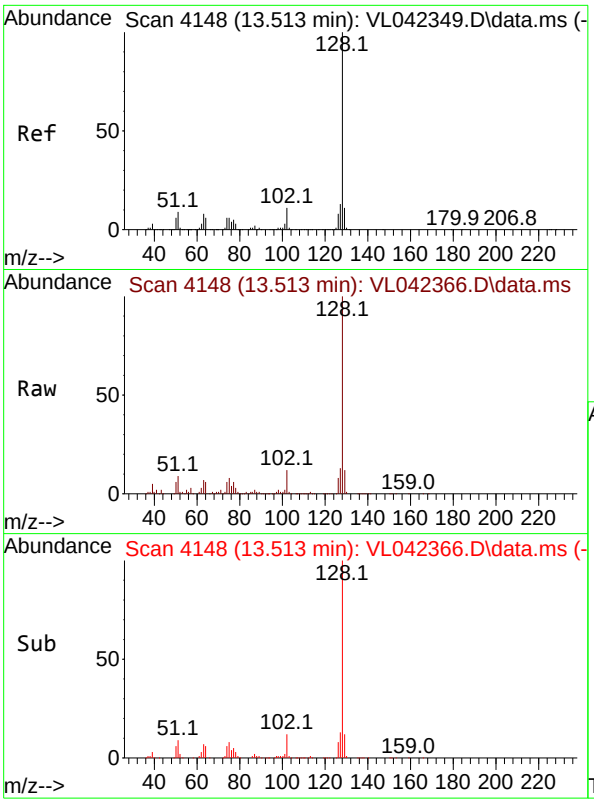


#76
1,4-Dichlorobenzene
Concen: 0.257 ppbv
RT: 11.672 min Scan# 3579
Delta R.T. 0.000 min
Lab File: VL042366.D
Acq: 17 Apr 2025 20:05

Tgt Ion:146 Resp: 8250

Ion	Ratio	Lower	Upper
146	100		
111	144.4	24.2	72.6#
148	59.7	32.1	96.5



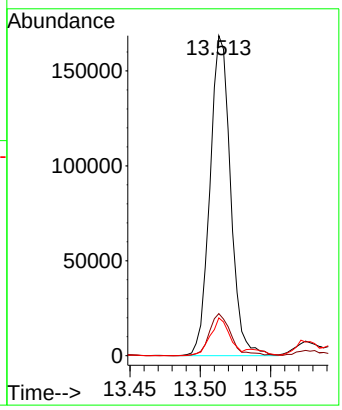


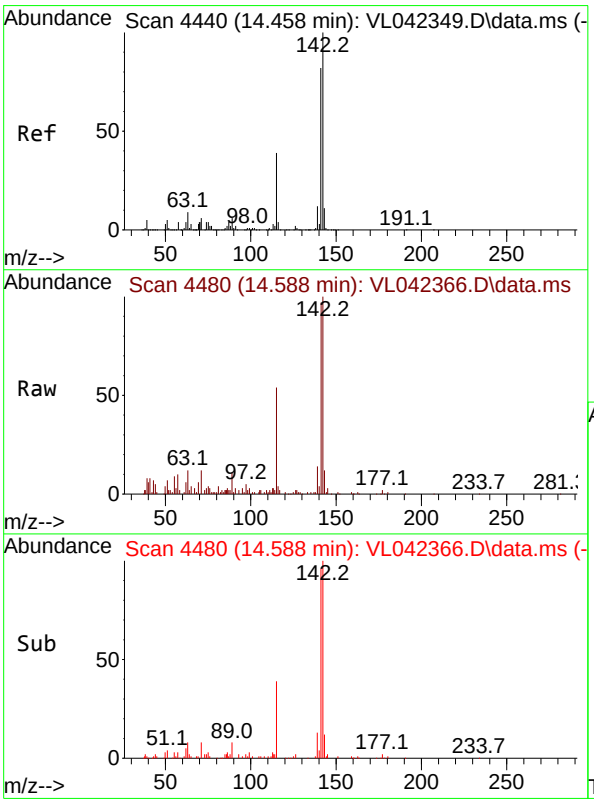
#79
Naphthalene
Concen: 2.334 ppbv
RT: 13.513 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042366.D
Acq: 17 Apr 2025 20:05

Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025

Tgt Ion:128 Resp: 171574

Ion	Ratio	Lower	Upper
128	100		
127	13.1	10.6	15.8
129	11.8	8.6	12.8

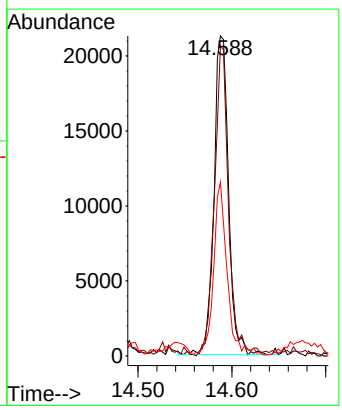




#80
Naphthalene,2-methyl-
Concen: 0.549 ppbv
RT: 14.588 min Scan# 4480
Delta R.T. 0.129 min
Lab File: VL042366.D
Acq: 17 Apr 2025 20:05

Tgt Ion:142 Resp: 23011

Ion	Ratio	Lower	Upper
142	100		
141	96.1	66.8	100.2
115	49.2	33.4	50.2



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042367.D
Acq On : 17 Apr 2025 20:38
Operator : SY/MD
Sample : Q1726-02
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025

Quant Time: Apr 18 02:43:05 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	117602	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.959	114	335422	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.878	117	296955	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.374	95	247280	10.134	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 101.300%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.499	85	10227	0.492	ppbv		93
3) Chlorodifluoromethane	1.677	51	2339	0.118	ppbv		93
4) Chloromethane	1.531	50	40465	4.921	ppbv		97
6) Bromomethane	1.664	94	249	0.065	ppbv		85
7) Chloroethane	1.703	64	552	0.171	ppbv		94
9) Propene	1.557	41	83793	9.299	ppbv		94
10) Heptane	4.978	43	167433	6.614	ppbv		98
11) Trichlorofluoromethane	1.874	101	4482	0.227	ppbv		97
12) 1,1,2-Trichlorotrifluo...	2.136	101	1258	0.078	ppbv	#	82
13) Ethanol	1.722	45	349355	243.933	ppbv		76
15) Acetone	1.832	43	2494566	129.576	ppbv	#	62
16) 1,3-Butadiene	1.599	39	7420	0.806	ppbv	#	55
17) tert-Butyl alcohol	2.042	59	25593	1.073	ppbv		98
19) Isopropyl Alcohol	1.884	45	264094	24.694	ppbv	#	33
20) Methylene Chloride	2.062	84	53039	7.035	ppbv		95
21) Allyl Chloride	2.078	41	2733	0.206	ppbv	#	21
23) Vinyl Acetate	2.457	43	51837	6.652	ppbv	#	93
25) Ethyl Acetate	2.826	43	104617	2.204	ppbv	#	89
26) Hexane	2.826	57	134610	7.007	ppbv	#	35
27) Carbon Disulfide	2.149	76	1450	0.071	ppbv	#	47
30) Cyclohexane	3.858	84	13512	0.870	ppbv	#	1
32) 1,1,1-Trichloroethane	3.369	97	1713	0.056	ppbv		90
34) 2-Butanone	2.557	43	50219	1.893	ppbv		97
35) Carbon Tetrachloride	3.768	117	1102	0.036	ppbv		95
36) Benzene	3.654	78	61349	1.696	ppbv	#	96
37) 1,2-Dichloroethane	3.217	62	3633	0.167	ppbv	#	88
39) 1,2-Dichloropropane	3.955	63	91430	6.782	ppbv	#	23
41) Tetrahydrofuran	3.062	42	6945	0.449	ppbv	#	76
43) Methyl Methacrylate	4.881	69	512	0.031	ppbv	#	1
44) 2,2,4-Trimethylpentane	4.638	57	905076	14.485	ppbv		94
50) 4-Methyl-2-Pentanone	5.765	43	3640	0.083	ppbv	#	11
51) 2-Hexanone	7.419	43	61300	1.551	ppbv	#	27
52) Tetrachloroethene	8.224	164	1031	0.074	ppbv	#	84
53) Toluene	6.933	91	1722699	39.680	ppbv		100
58) Ethyl Benzene	9.354	91	505495	8.592	ppbv		100
59) m/p-Xylene	9.529	91	1399337	29.524	ppbv		99
60) o-Xylene	9.963	91	552991	11.586	ppbv		99
61) Styrene	9.869	104	7256	0.319	ppbv		95
62) Isopropylbenzene	10.539	105	52108	0.744	ppbv		99
64) n-propylbenzene	10.989	120	45701	2.595	ppbv		95
65) tert-Butylbenzene	11.536	119	97556	1.515	ppbv	#	73
66) Benzyl Chloride	11.536	91	109757	15.509	ppbv	#	70
67) sec-Butylbenzene	11.769	105	15818	0.177	ppbv	#	76

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042367.D
Acq On : 17 Apr 2025 20:38
Operator : SY/MD
Sample : Q1726-02
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025

Quant Time: Apr 18 02:43:05 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

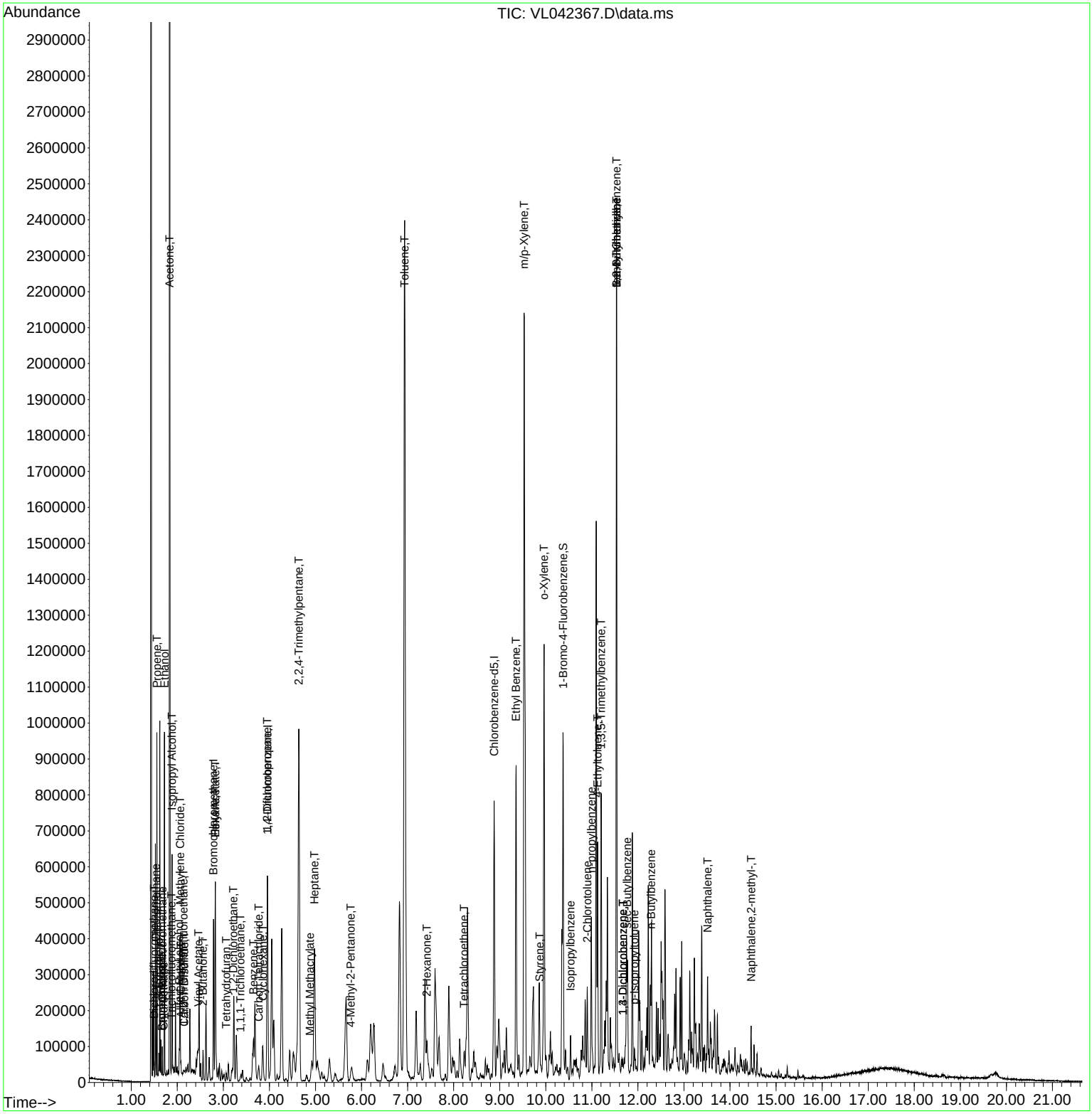
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
69) p-Isopropyltoluene	11.924	119	24554	0.315	ppbv		96
70) n-Butylbenzene	12.286	91	76213	0.940	ppbv	#	38
71) 2-Chlorotoluene	10.901	91	48685	0.886	ppbv		98
72) 4-Ethyltoluene	11.124	105	257296	4.410	ppbv	#	56
73) 1,3,5-Trimethylbenzene	11.202	105	275258	5.343	ppbv		97
74) 1,2,4-Trimethylbenzene	11.536	105	895635	14.886	ppbv	#	65
75) 1,3-Dichlorobenzene	11.671	146	6955	0.222	ppbv		83
76) 1,4-Dichlorobenzene	11.671	146	6955	0.221	ppbv	#	69
79) Naphthalene	13.513	128	122970	1.709	ppbv		99
80) Naphthalene,2-methyl-	14.458	142	31538	0.769	ppbv		93

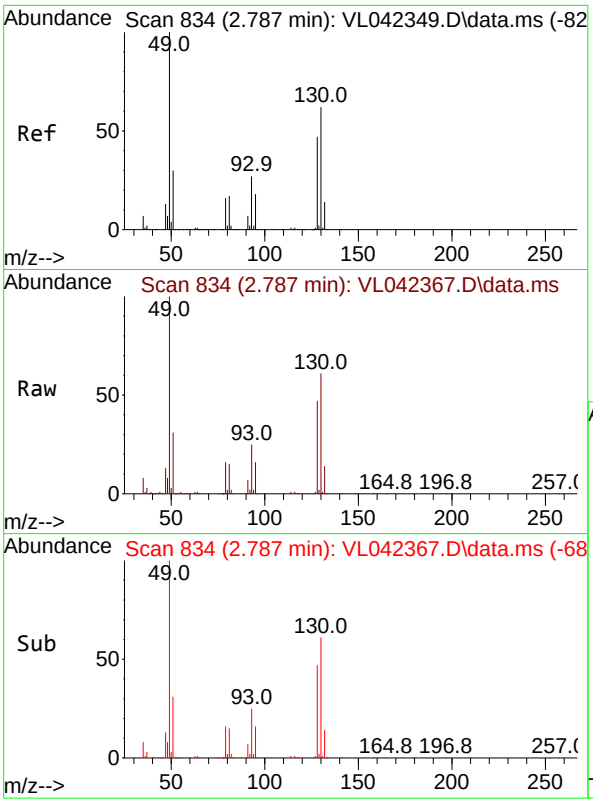
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042367.D
Acq On : 17 Apr 2025 20:38
Operator : SY/MD
Sample : Q1726-02
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025

Quant Time: Apr 18 02:43:05 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



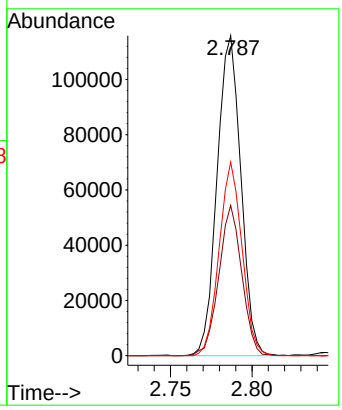


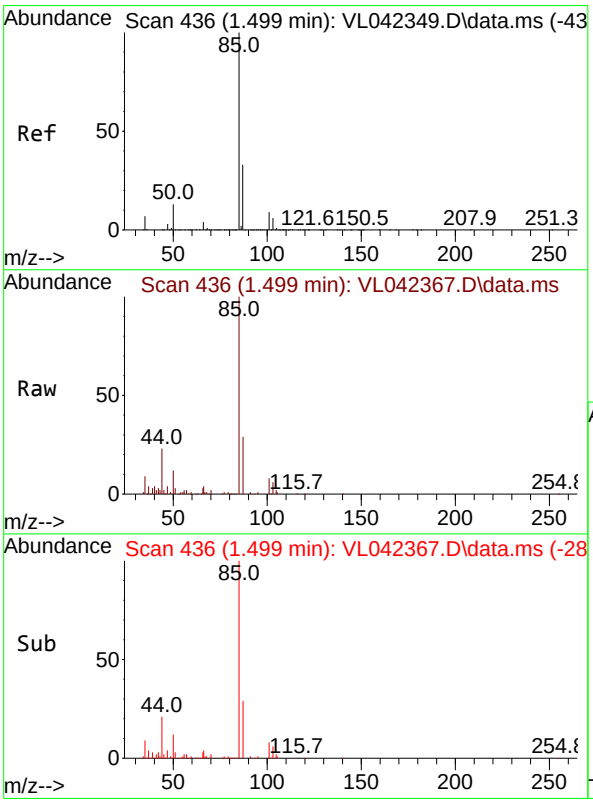
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL042367.D
Acq: 17 Apr 2025 20:38

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025

Tgt Ion: 49 Resp: 117602

Ion	Ratio	Lower	Upper
49	100		
128	45.1	22.8	68.4
130	58.1	29.3	88.0

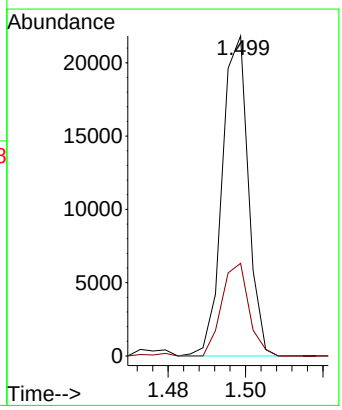


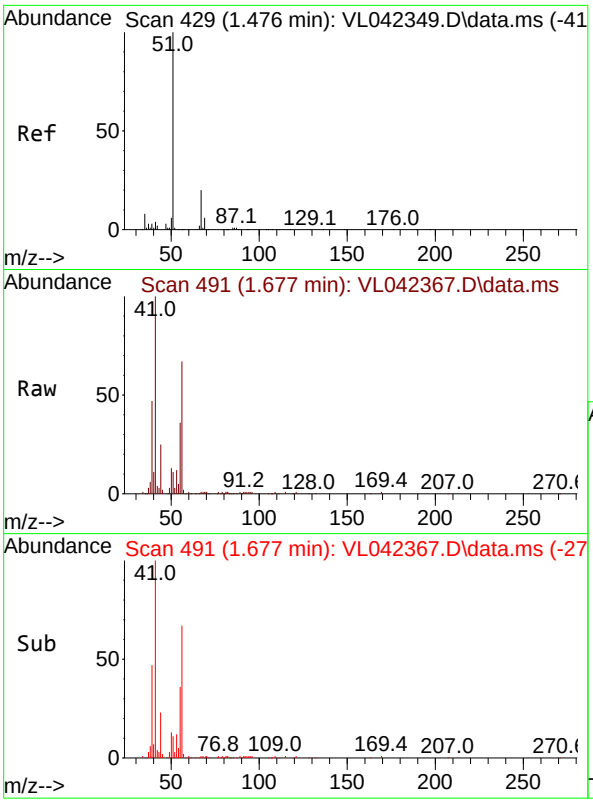


#2
Dichlorodifluoromethane
Concen: 0.492 ppbv
RT: 1.499 min Scan# 436
Delta R.T. -0.000 min
Lab File: VL042367.D
Acq: 17 Apr 2025 20:38

Tgt Ion: 85 Resp: 10227

Ion	Ratio	Lower	Upper
85	100		
87	29.0	26.6	39.8



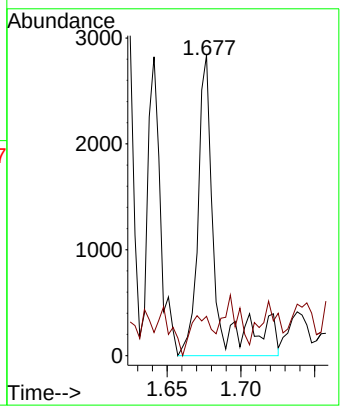


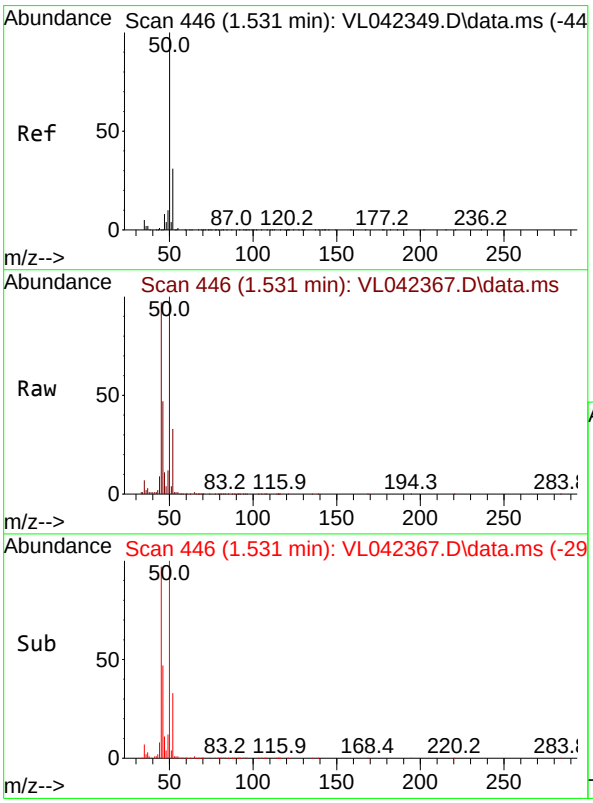
#3
Chlorodifluoromethane
Concen: 0.118 ppbv
RT: 1.677 min Scan# 4
Delta R.T. 0.201 min
Lab File: VL042367.D
Acq: 17 Apr 2025 20:38

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025

Tgt Ion: 51 Resp: 2339

Ion	Ratio	Lower	Upper
51	100		
67	23.6	16.2	24.4

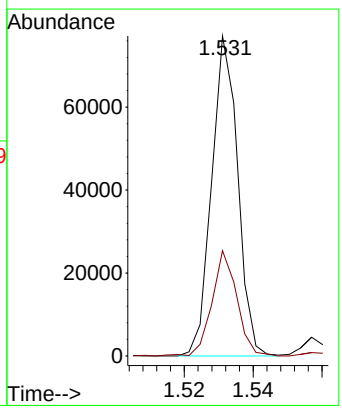


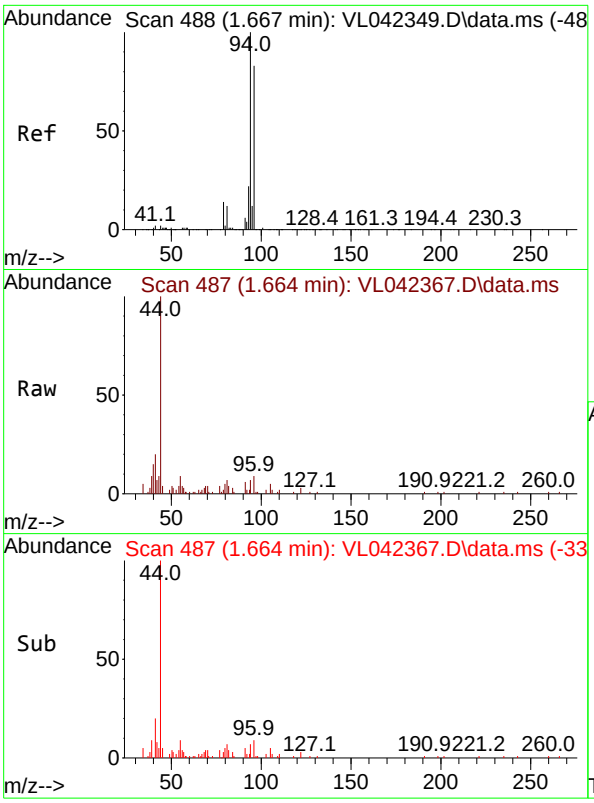


#4
Chloromethane
Concen: 4.921 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042367.D
Acq: 17 Apr 2025 20:38

Tgt Ion: 50 Resp: 40465

Ion	Ratio	Lower	Upper
50	100		
52	32.7	24.7	37.1



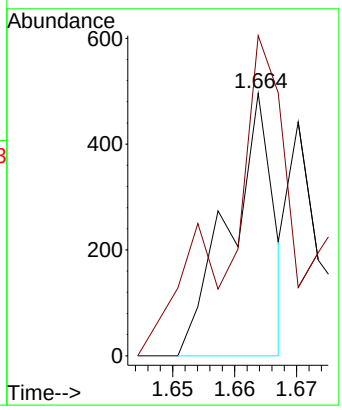


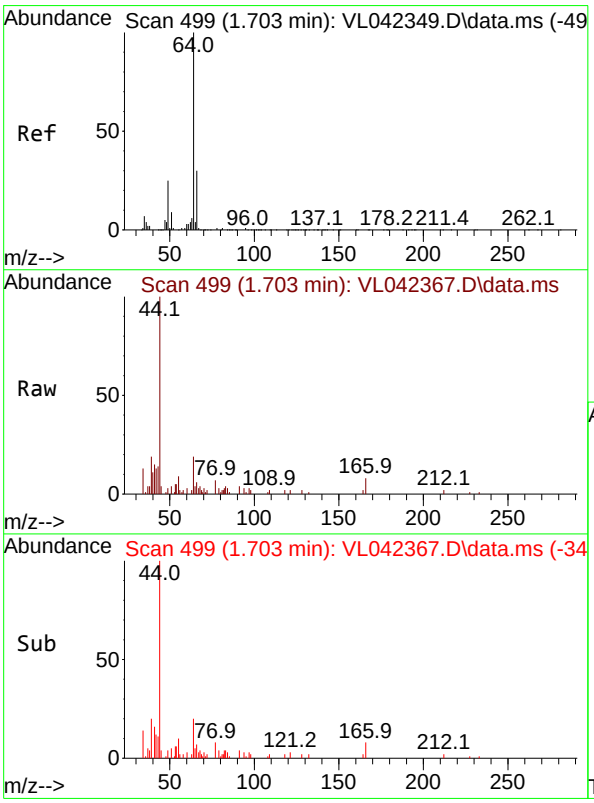
#6
Bromomethane
Concen: 0.065 ppbv
RT: 1.664 min Scan# 4
Delta R.T. -0.003 min
Lab File: VL042367.D
Acq: 17 Apr 2025 20:38

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025

Tgt Ion: 94 Resp: 249

Ion	Ratio	Lower	Upper
94	100		
96	96.2	66.2	99.2

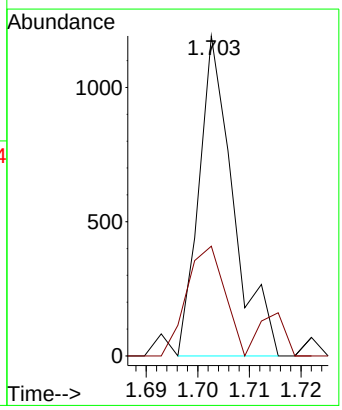


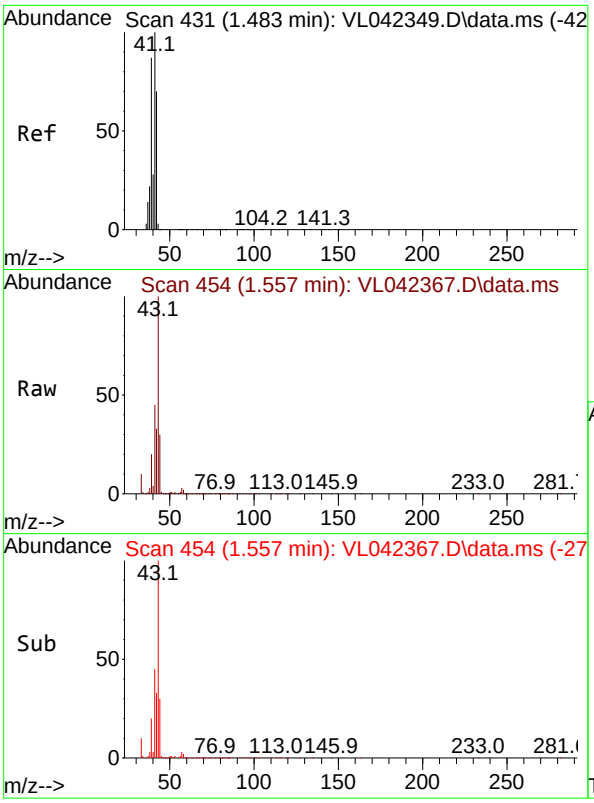


#7
Chloroethane
Concen: 0.171 ppbv
RT: 1.703 min Scan# 499
Delta R.T. -0.000 min
Lab File: VL042367.D
Acq: 17 Apr 2025 20:38

Tgt Ion: 64 Resp: 552

Ion	Ratio	Lower	Upper
64	100		
66	34.3	24.6	37.0



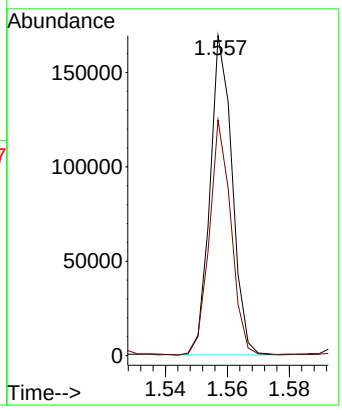


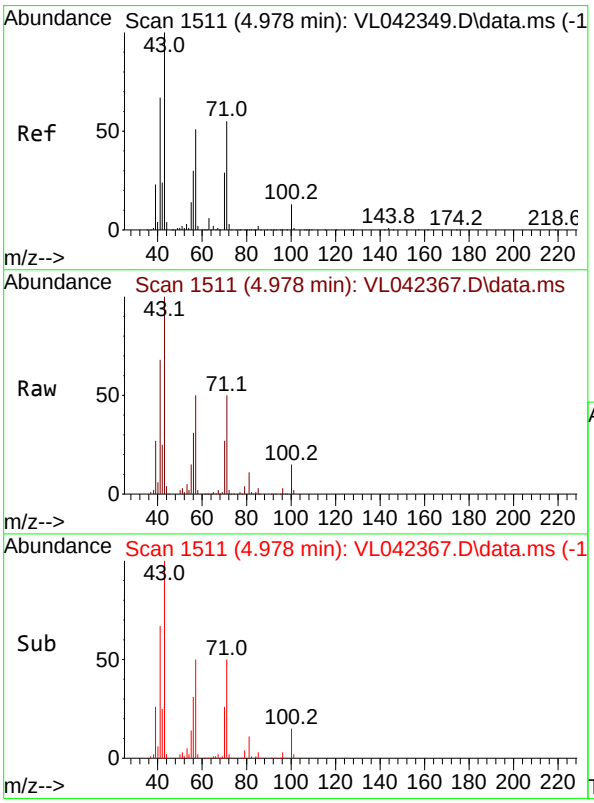
#9
Propene
Concen: 9.299 ppbv
RT: 1.557 min Scan# 4
Delta R.T. 0.074 min
Lab File: VL042367.D
Acq: 17 Apr 2025 20:38

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025

Tgt Ion: 41 Resp: 83793

Ion	Ratio	Lower	Upper
41	100		
42	74.9	56.2	84.4

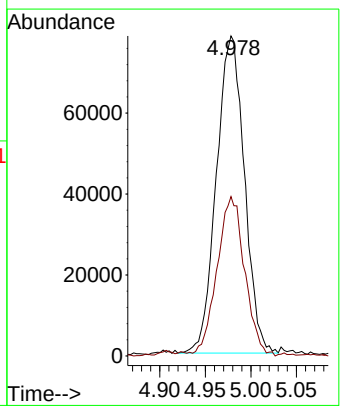


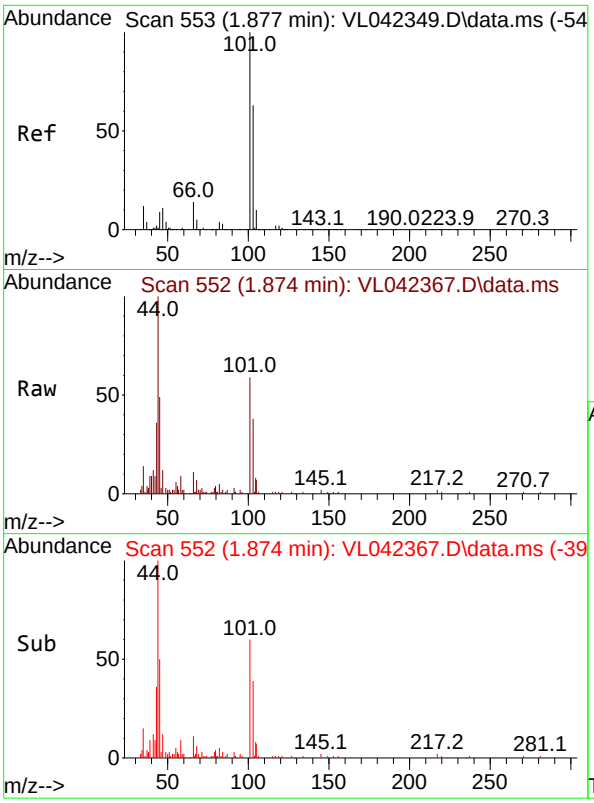


#10
Heptane
Concen: 6.614 ppbv
RT: 4.978 min Scan# 1511
Delta R.T. -0.000 min
Lab File: VL042367.D
Acq: 17 Apr 2025 20:38

Tgt Ion: 43 Resp: 167433

Ion	Ratio	Lower	Upper
43	100		
57	51.5	39.9	59.9



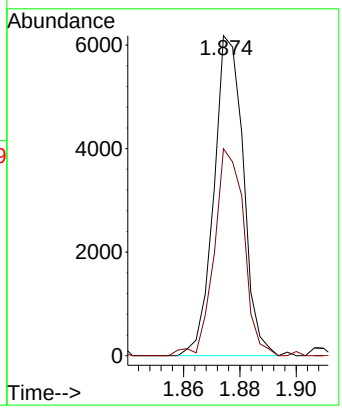


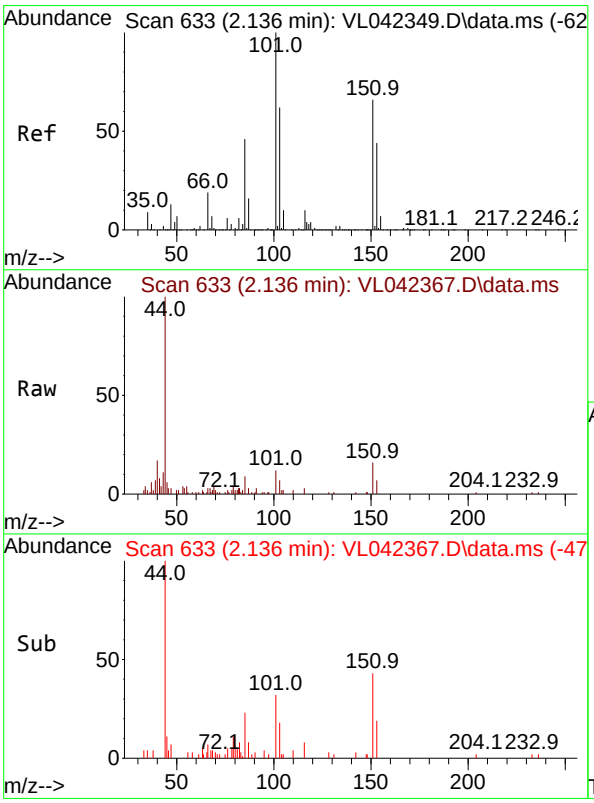
#11
Trichlorofluoromethane
Concen: 0.227 ppbv
RT: 1.874 min Scan# 5
Delta R.T. -0.003 min
Lab File: VL042367.D
Acq: 17 Apr 2025 20:38

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025

Tgt Ion:101 Resp: 4482

Ion	Ratio	Lower	Upper
101	100		
103	64.6	50.1	75.1

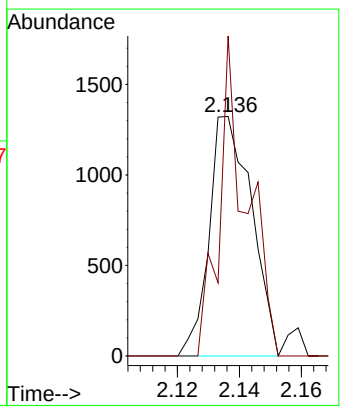


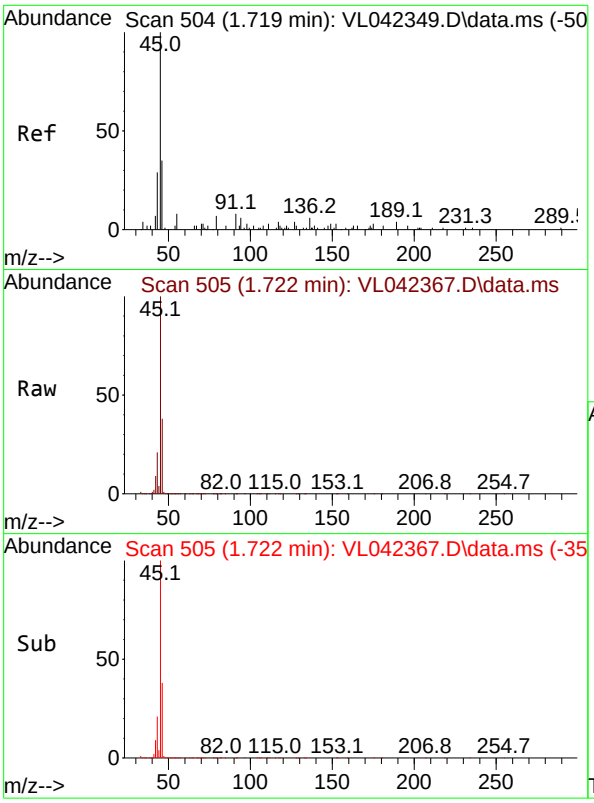


#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.078 ppbv
RT: 2.136 min Scan# 633
Delta R.T. -0.000 min
Lab File: VL042367.D
Acq: 17 Apr 2025 20:38

Tgt Ion:101 Resp: 1258

Ion	Ratio	Lower	Upper
101	100		
151	86.6	57.0	85.6#



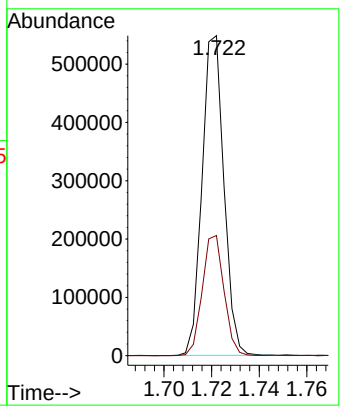


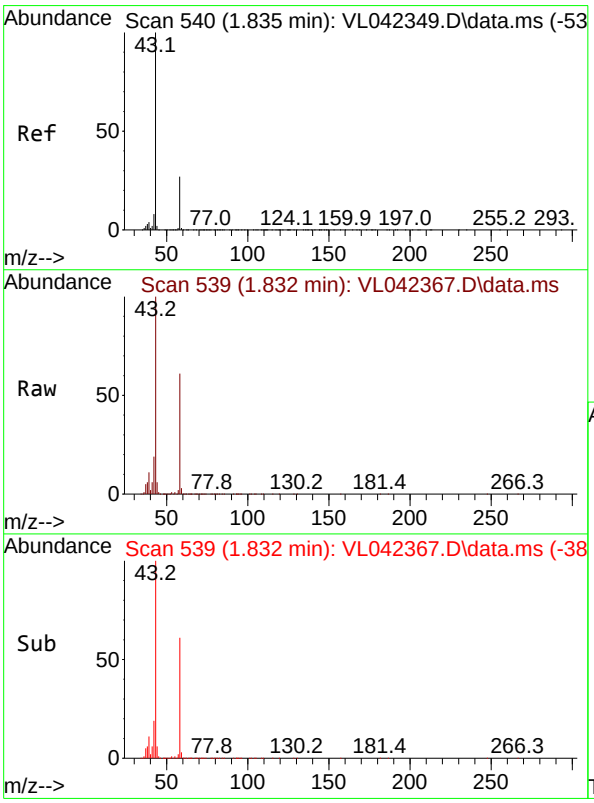
#13
Ethanol
Concen: 243.933 ppbv
RT: 1.722 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042367.D
Acq: 17 Apr 2025 20:38

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025

Tgt Ion: 45 Resp: 349355

Ion	Ratio	Lower	Upper
45	100		
46	37.6	21.9	87.7

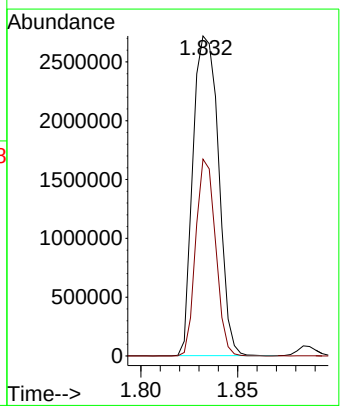


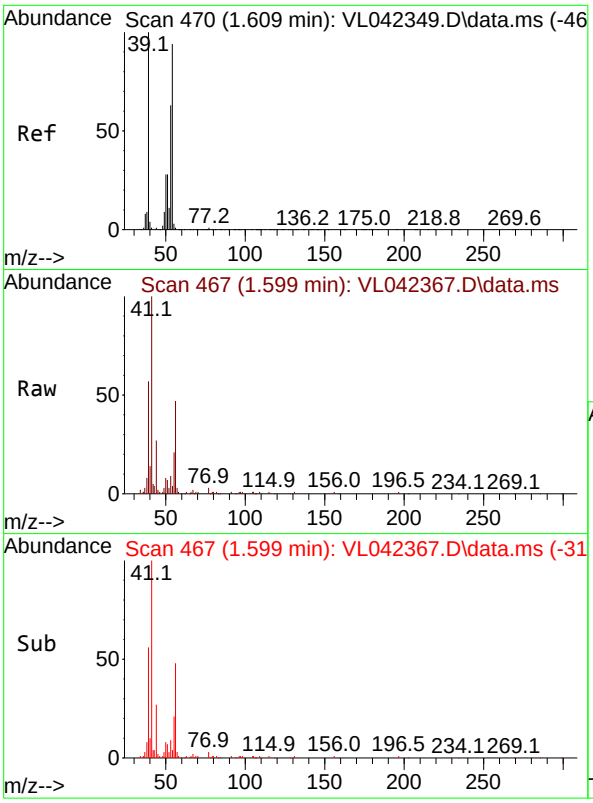


#15
Acetone
Concen: 129.576 ppbv
RT: 1.832 min Scan# 539
Delta R.T. -0.003 min
Lab File: VL042367.D
Acq: 17 Apr 2025 20:38

Tgt Ion: 43 Resp: 2494566

Ion	Ratio	Lower	Upper
43	100		
58	48.0	22.4	33.6#



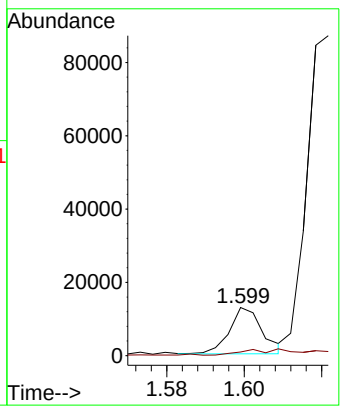


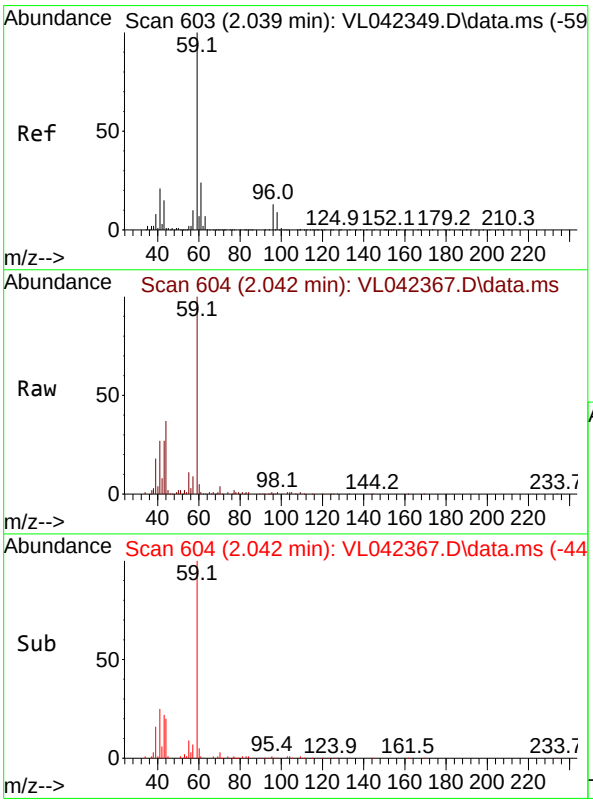
#16
1,3-Butadiene
Concen: 0.806 ppbv
RT: 1.599 min Scan# 4
Delta R.T. -0.010 min
Lab File: VL042367.D
Acq: 17 Apr 2025 20:38

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025

Tgt Ion: 39 Resp: 7420

Ion	Ratio	Lower	Upper
39	100		
54	40.8	64.9	97.3#

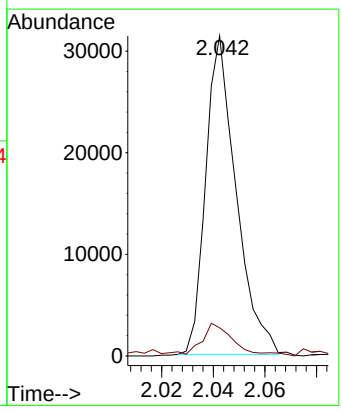


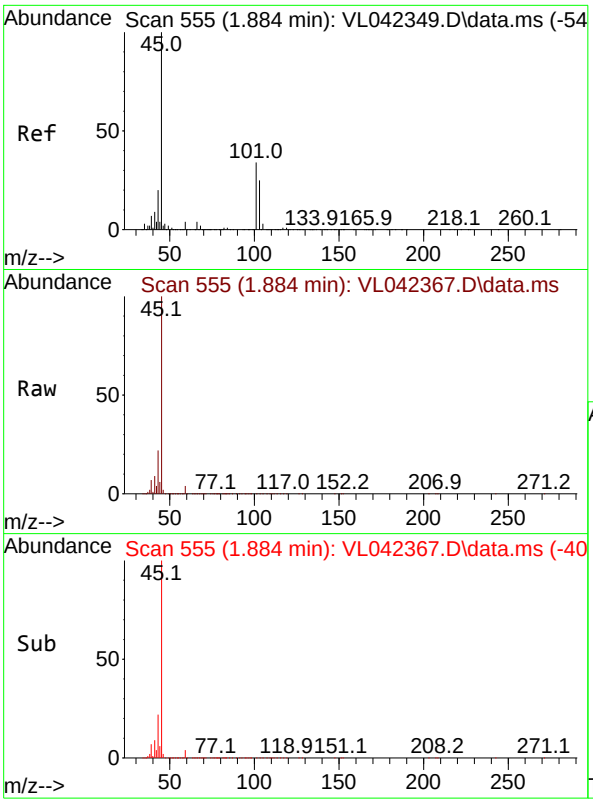


#17
tert-Butyl alcohol
Concen: 1.073 ppbv
RT: 2.042 min Scan# 604
Delta R.T. 0.003 min
Lab File: VL042367.D
Acq: 17 Apr 2025 20:38

Tgt Ion: 59 Resp: 25593

Ion	Ratio	Lower	Upper
59	100		
57	11.5	8.7	13.1



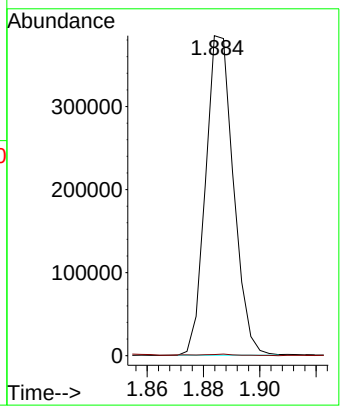


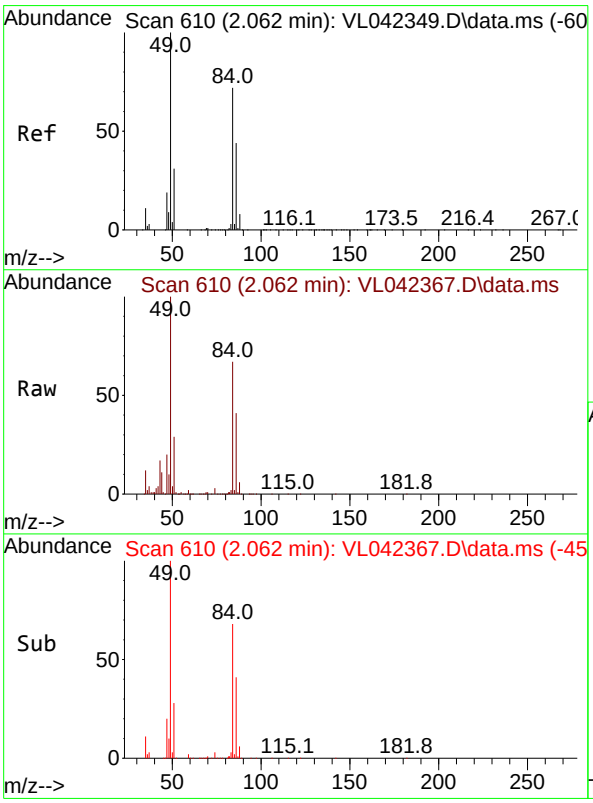
#19
Isopropyl Alcohol
Concen: 24.694 ppbv
RT: 1.884 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL042367.D
Acq: 17 Apr 2025 20:38

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025

Tgt Ion: 45 Resp: 264094

Ion	Ratio	Lower	Upper
45	100		
58	0.0	34.5	51.7#

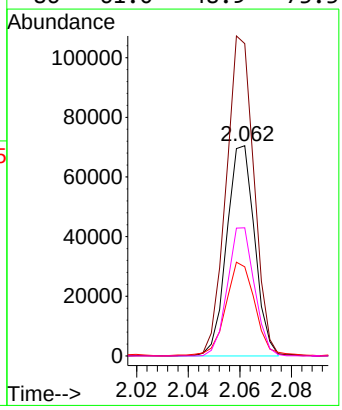


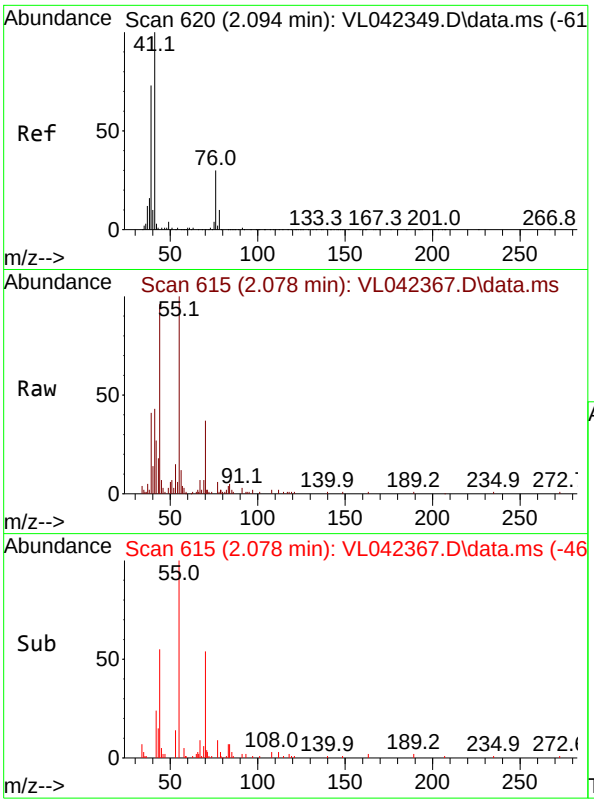


#20
Methylene Chloride
Concen: 7.035 ppbv
RT: 2.062 min Scan# 610
Delta R.T. -0.000 min
Lab File: VL042367.D
Acq: 17 Apr 2025 20:38

Tgt Ion: 84 Resp: 53039

Ion	Ratio	Lower	Upper
84	100		
49	148.2	111.6	167.4
51	42.0	35.1	52.7
86	61.0	48.9	73.3



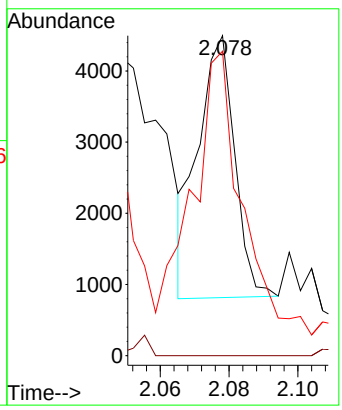


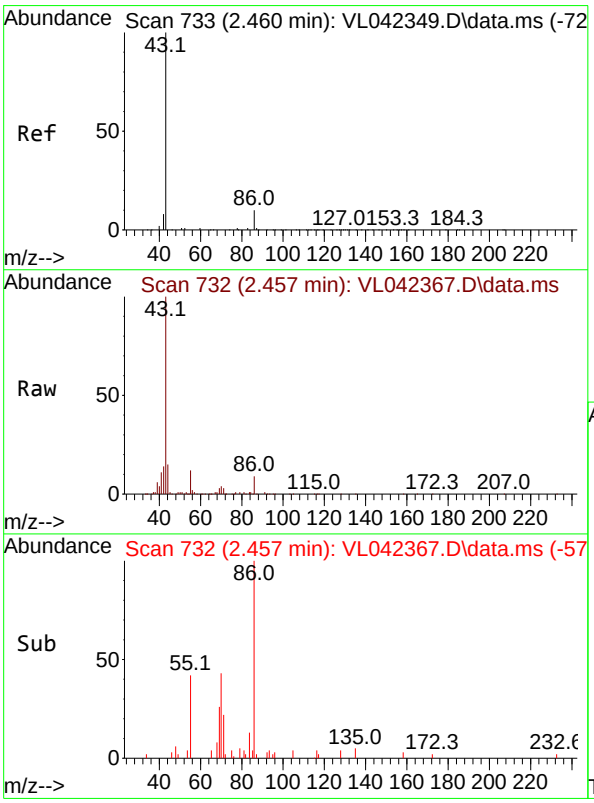
#21
Allyl Chloride
Concen: 0.206 ppbv
RT: 2.078 min Scan# 61
Delta R.T. -0.016 min
Lab File: VL042367.D
Acq: 17 Apr 2025 20:38

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025

Tgt Ion: 41 Resp: 2733

Ion	Ratio	Lower	Upper
41	100		
76	0.0	24.8	37.2#
39	0.0	60.6	90.8#

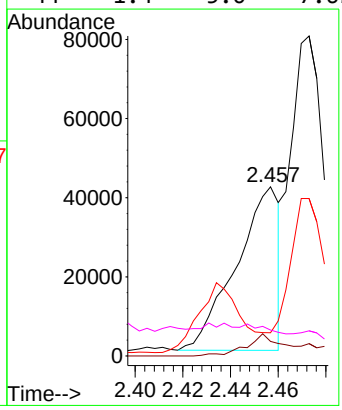


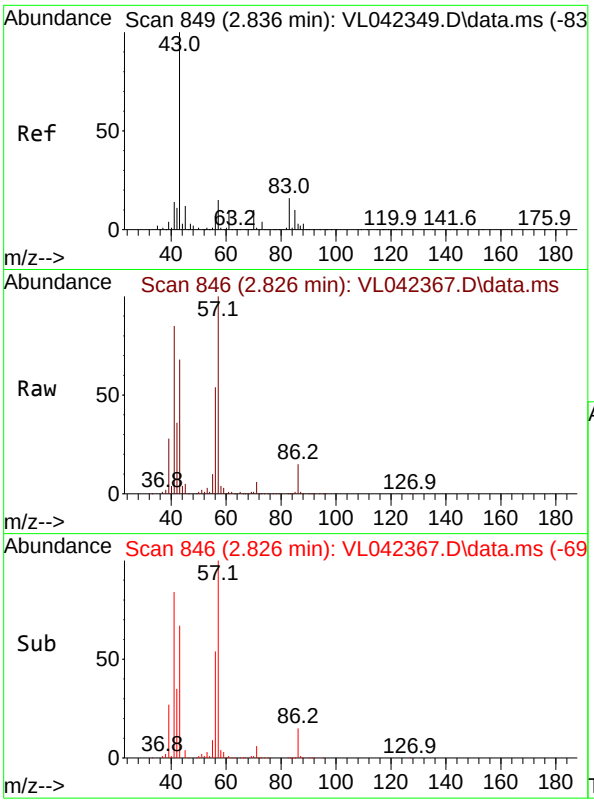


#23
Vinyl Acetate
Concen: 6.652 ppbv
RT: 2.457 min Scan# 732
Delta R.T. -0.003 min
Lab File: VL042367.D
Acq: 17 Apr 2025 20:38

Tgt Ion: 43 Resp: 51837

Ion	Ratio	Lower	Upper
43	100		
86	9.0	6.5	9.7
42	7.8	7.8	11.8#
44	1.4	5.0	7.6#



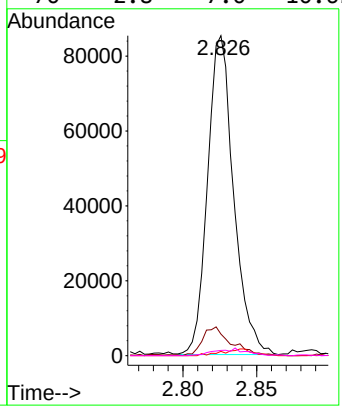


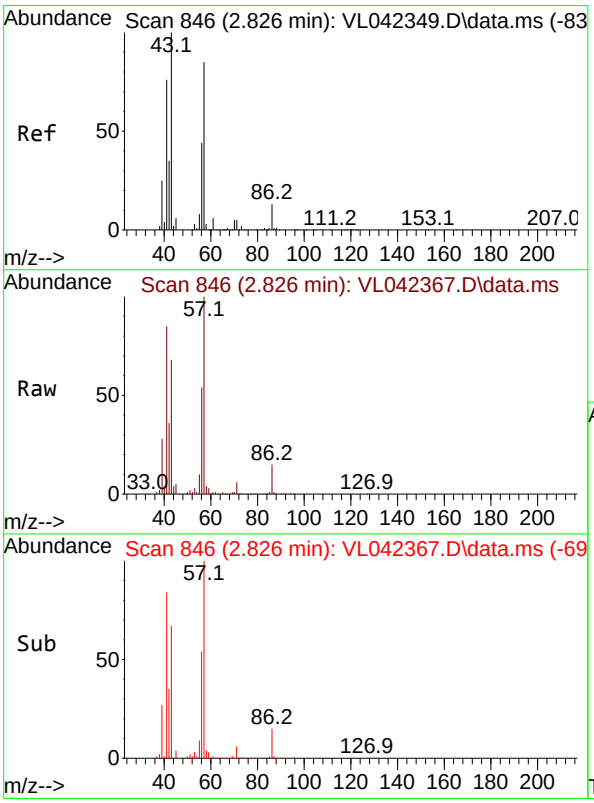
#25
Ethyl Acetate
Concen: 2.204 ppbv
RT: 2.826 min Scan# 84
Delta R.T. -0.010 min
Lab File: VL042367.D
Acq: 17 Apr 2025 20:38

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025

Tgt Ion: 43 Resp: 104617

Ion	Ratio	Lower	Upper
43	100		
45	10.3	8.3	12.5
61	2.4	7.3	10.9#
70	2.8	7.0	10.6#

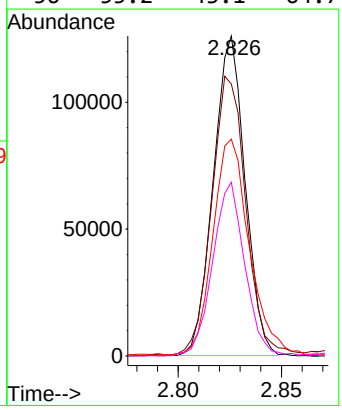


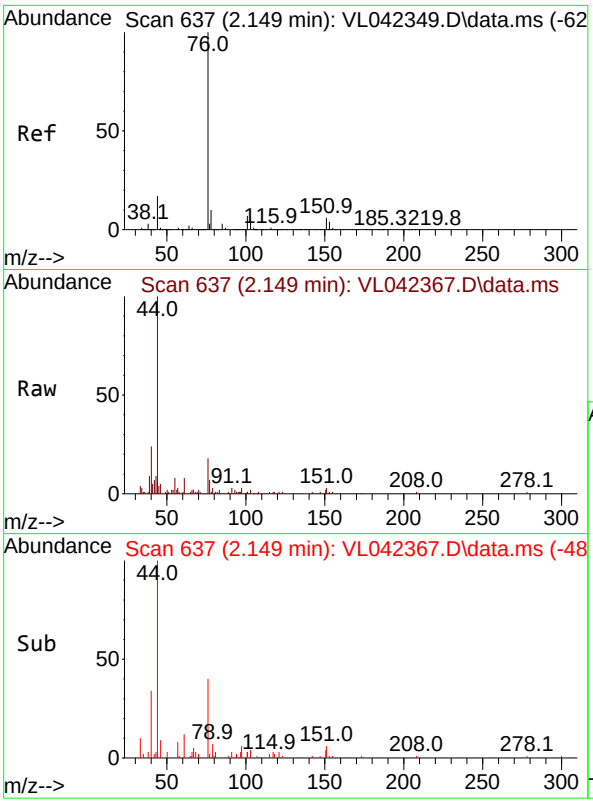


#26
Hexane
Concen: 7.007 ppbv
RT: 2.826 min Scan# 846
Delta R.T. -0.000 min
Lab File: VL042367.D
Acq: 17 Apr 2025 20:38

Tgt Ion: 57 Resp: 134610

Ion	Ratio	Lower	Upper
57	100		
41	95.1	77.9	116.9
43	77.8	208.4	312.6#
56	55.2	43.1	64.7



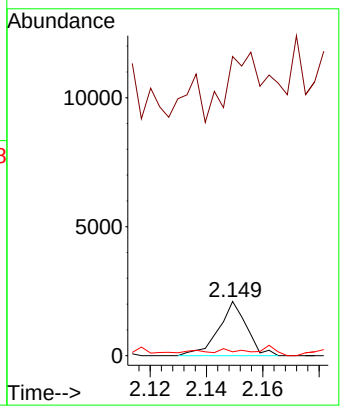


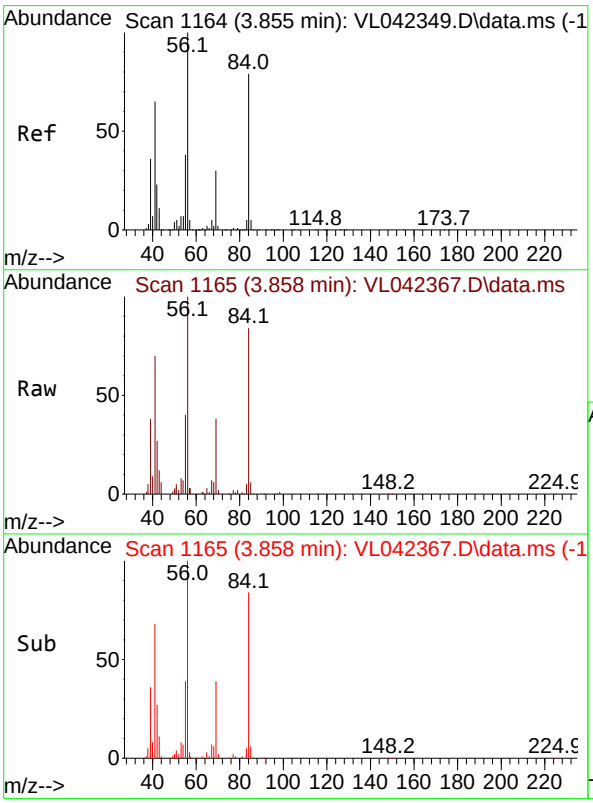
#27
Carbon Disulfide
Concen: 0.071 ppbv
RT: 2.149 min Scan# 6
Delta R.T. -0.000 min
Lab File: VL042367.D
Acq: 17 Apr 2025 20:38

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025

Tgt Ion: 76 Resp: 1450

Ion	Ratio	Lower	Upper
76	100		
44	0.0	15.5	23.3#
78	38.3	9.3	13.9#

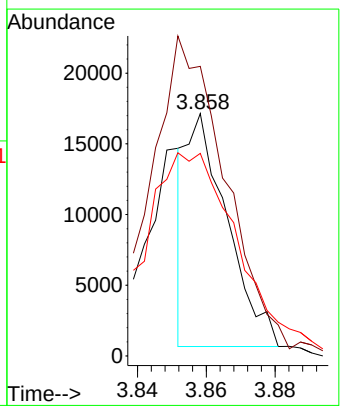


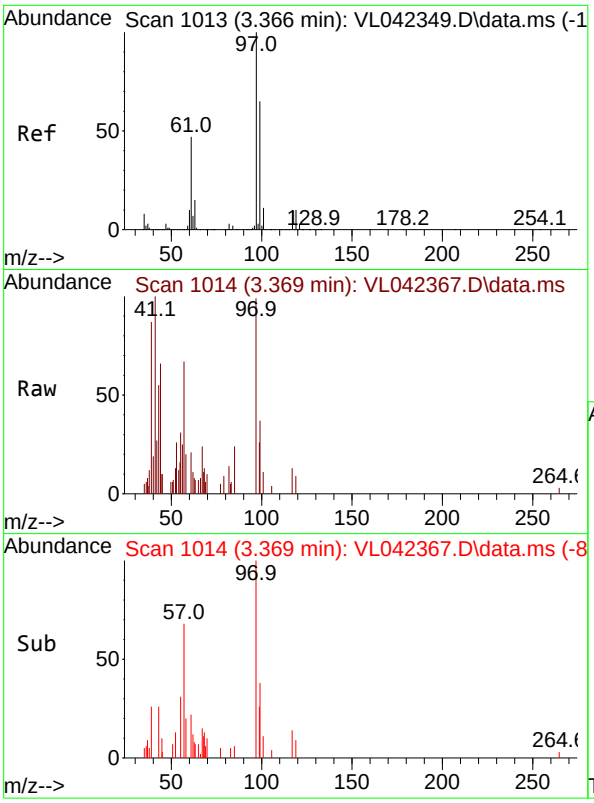


#30
Cyclohexane
Concen: 0.870 ppbv
RT: 3.858 min Scan# 1165
Delta R.T. 0.003 min
Lab File: VL042367.D
Acq: 17 Apr 2025 20:38

Tgt Ion: 84 Resp: 13512

Ion	Ratio	Lower	Upper
84	100		
56	263.3	101.0	151.4#
41	195.6	67.4	101.0#



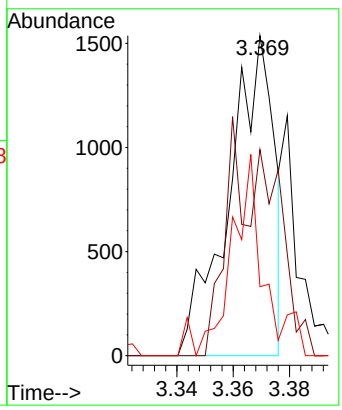


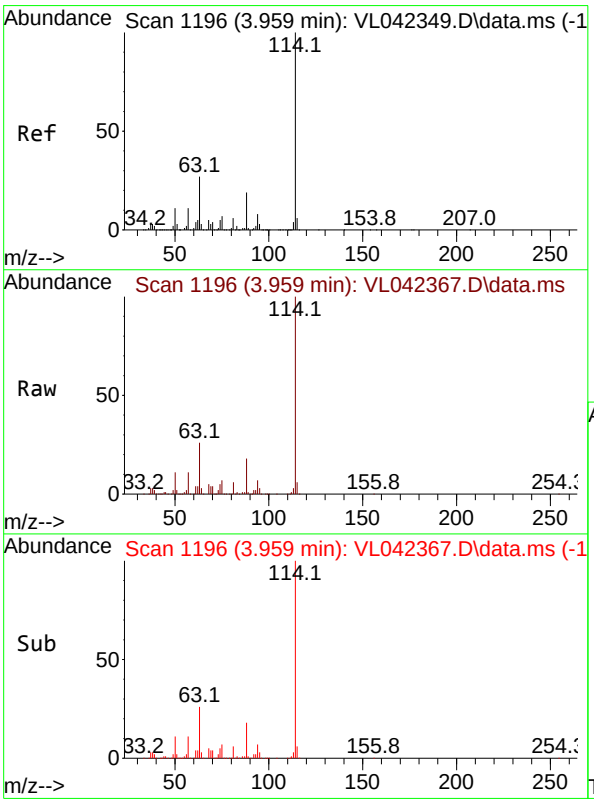
#32
1,1,1-Trichloroethane
Concen: 0.056 ppbv
RT: 3.369 min Scan# 1
Delta R.T. 0.003 min
Lab File: VL042367.D
Acq: 17 Apr 2025 20:38

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025

Tgt Ion: 97 Resp: 1713

Ion	Ratio	Lower	Upper
97	100		
99	74.3	51.0	76.4
61	45.0	38.8	58.2

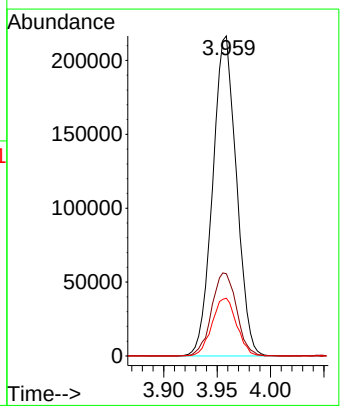


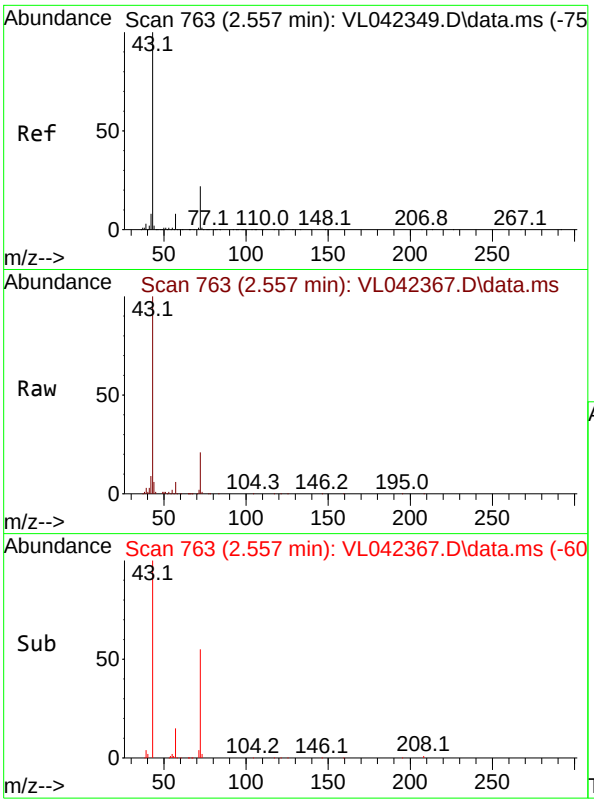


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.959 min Scan# 1196
Delta R.T. -0.000 min
Lab File: VL042367.D
Acq: 17 Apr 2025 20:38

Tgt Ion:114 Resp: 335422

Ion	Ratio	Lower	Upper
114	100		
63	27.3	21.8	32.6
88	18.7	15.5	23.3



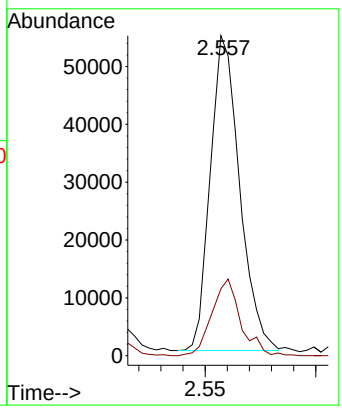


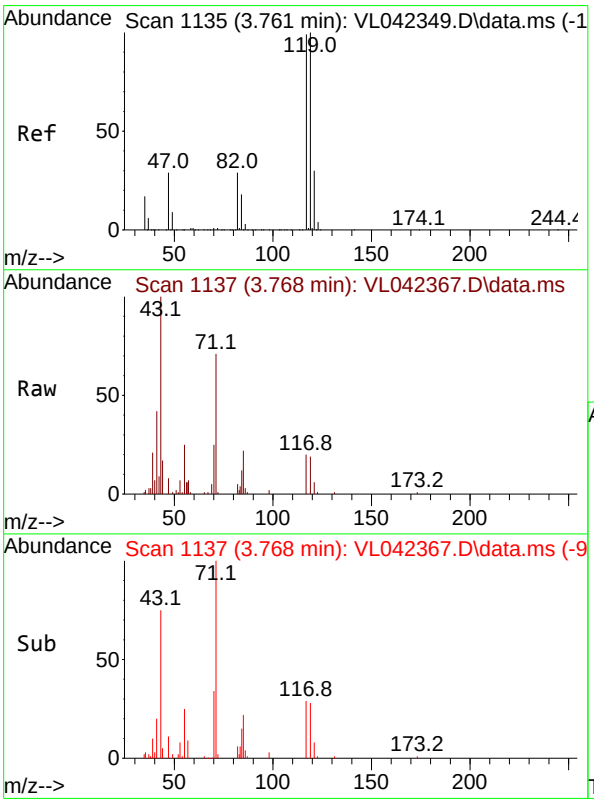
#34
2-Butanone
Concen: 1.893 ppbv
RT: 2.557 min Scan# 7
Delta R.T. -0.000 min
Lab File: VL042367.D
Acq: 17 Apr 2025 20:38

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025

Tgt Ion: 43 Resp: 50219

Ion	Ratio	Lower	Upper
43	100		
72	23.9	18.2	27.2

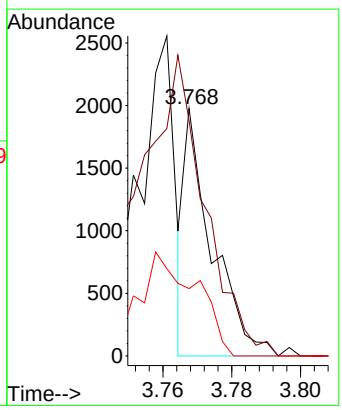


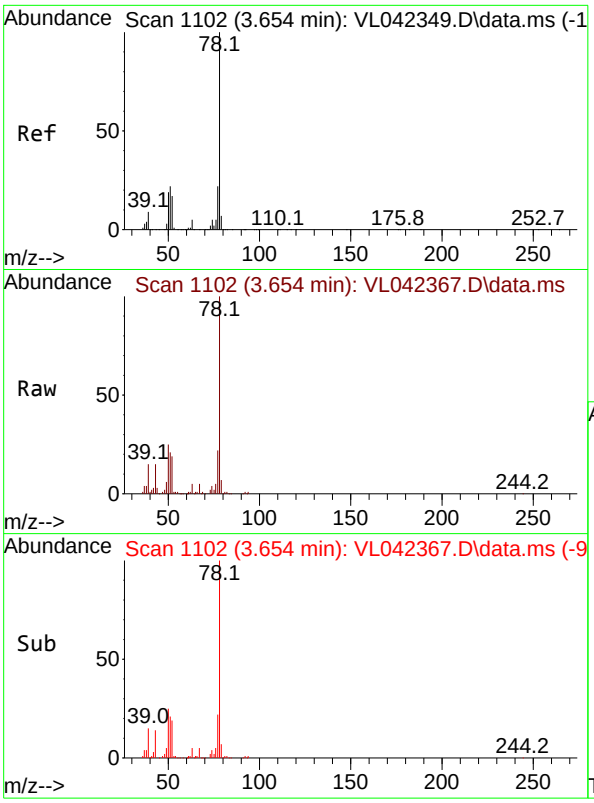


#35
Carbon Tetrachloride
Concen: 0.036 ppbv
RT: 3.768 min Scan# 1137
Delta R.T. 0.006 min
Lab File: VL042367.D
Acq: 17 Apr 2025 20:38

Tgt Ion:117 Resp: 1102

Ion	Ratio	Lower	Upper
117	100		
119	95.1	80.5	120.7
121	27.2	24.2	36.2



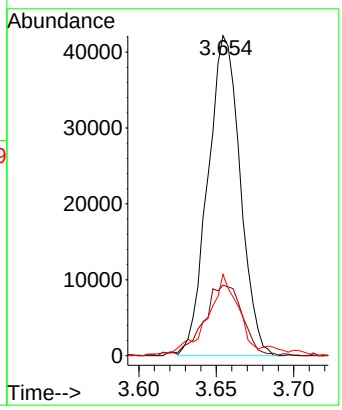


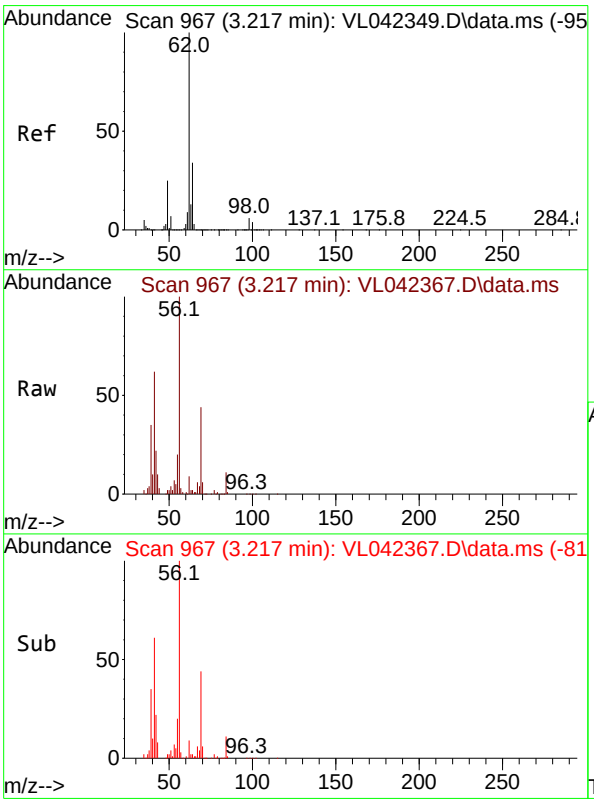
#36
Benzene
Concen: 1.696 ppbv
RT: 3.654 min Scan# 11
Delta R.T. -0.000 min
Lab File: VL042367.D
Acq: 17 Apr 2025 20:38

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025

Tgt Ion: 78 Resp: 61349

Ion	Ratio	Lower	Upper
78	100		
77	21.9	17.4	26.0
50	23.4	15.5	23.3#

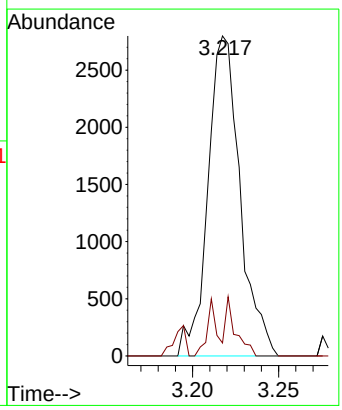


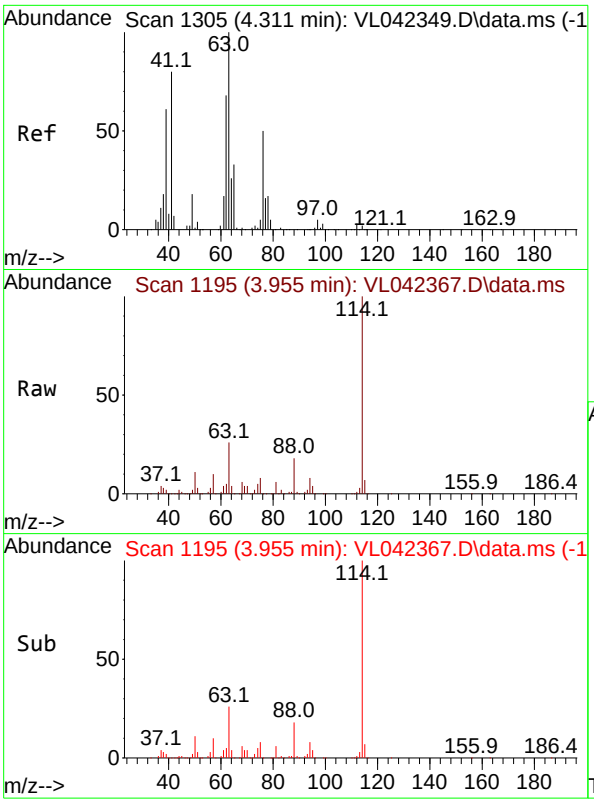


#37
1,2-Dichloroethane
Concen: 0.167 ppbv
RT: 3.217 min Scan# 967
Delta R.T. -0.000 min
Lab File: VL042367.D
Acq: 17 Apr 2025 20:38

Tgt Ion: 62 Resp: 3633

Ion	Ratio	Lower	Upper
62	100		
98	10.7	5.1	7.7#



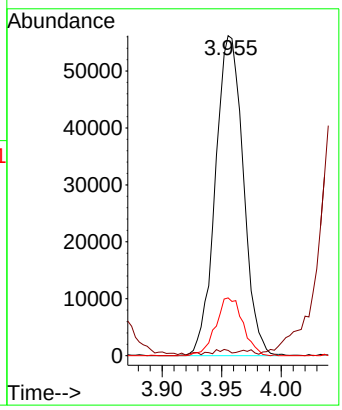


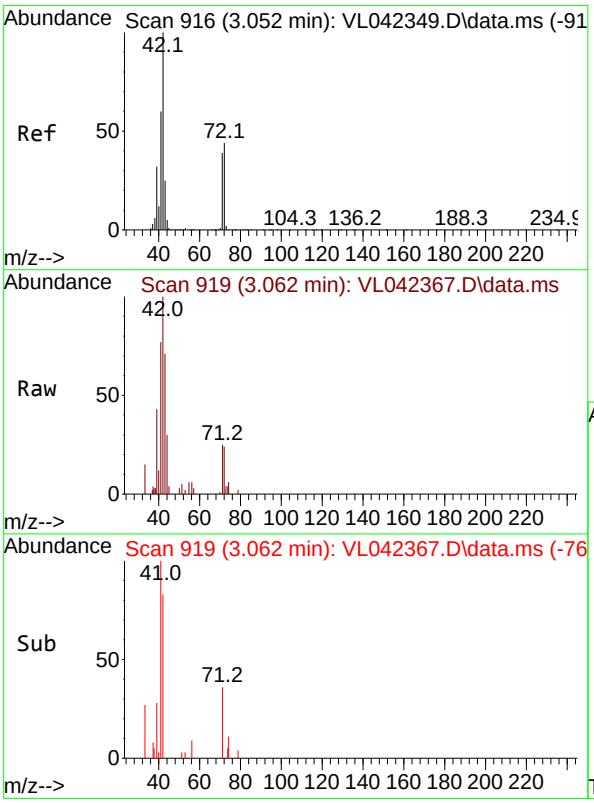
#39
1,2-Dichloropropane
Concen: 6.782 ppbv
RT: 3.955 min Scan# 11
Delta R.T. -0.356 min
Lab File: VL042367.D
Acq: 17 Apr 2025 20:38

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025

Tgt Ion: 63 Resp: 91430

Ion	Ratio	Lower	Upper
63	100		
41	1.3	64.2	96.2#
62	18.0	54.3	81.5#

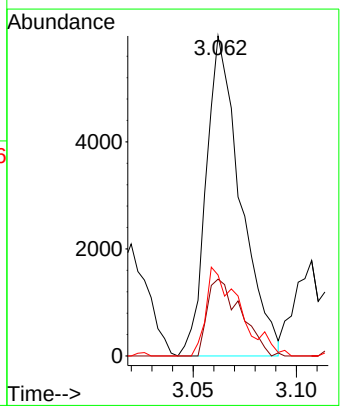


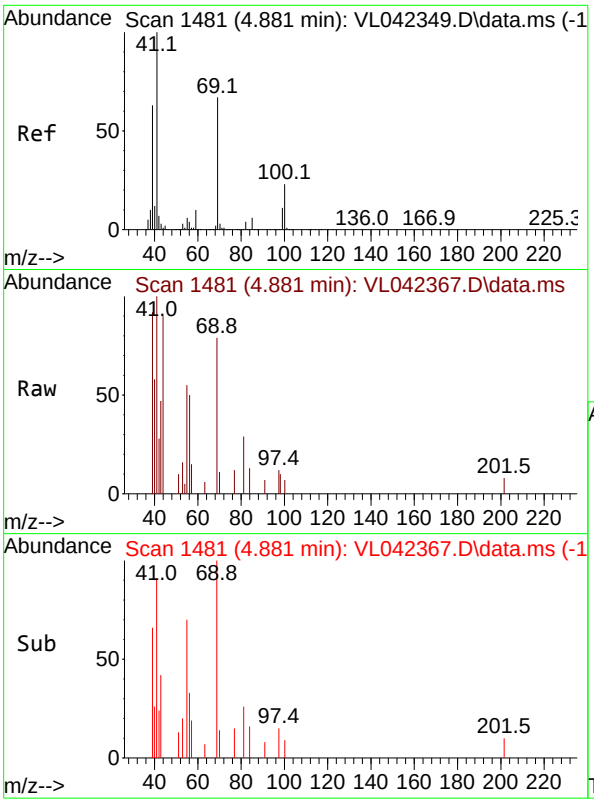


#41
Tetrahydrofuran
Concen: 0.449 ppbv
RT: 3.062 min Scan# 919
Delta R.T. 0.010 min
Lab File: VL042367.D
Acq: 17 Apr 2025 20:38

Tgt Ion: 42 Resp: 6945

Ion	Ratio	Lower	Upper
42	100		
72	23.4	32.3	48.5#
71	27.1	31.4	47.2#



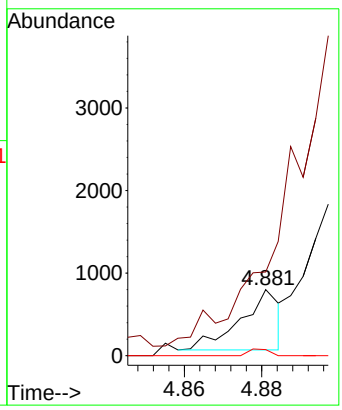


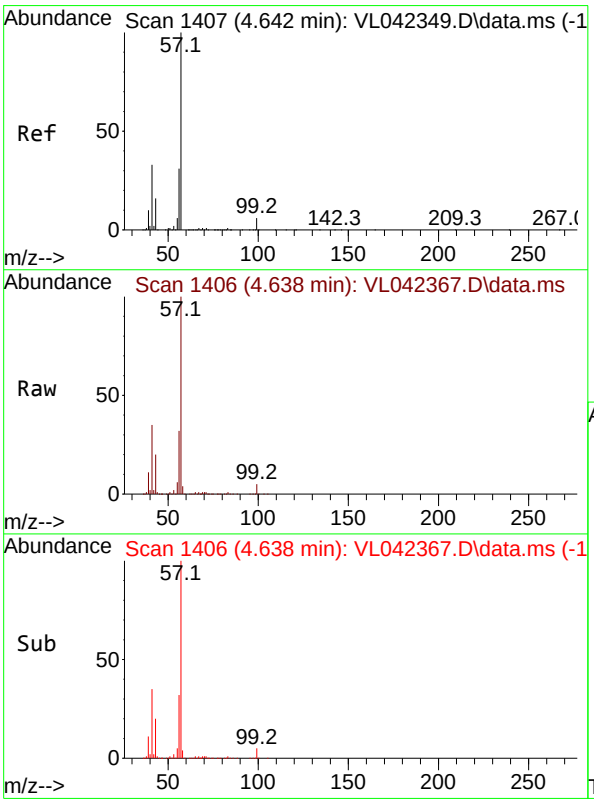
#43
Methyl Methacrylate
Concen: 0.031 ppbv
RT: 4.881 min Scan# 14
Delta R.T. -0.000 min
Lab File: VL042367.D
Acq: 17 Apr 2025 20:38

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025

Tgt Ion: 69 Resp: 512

Ion	Ratio	Lower	Upper
69	100		
41	0.0	118.6	177.8#
100	0.0	28.2	42.2#

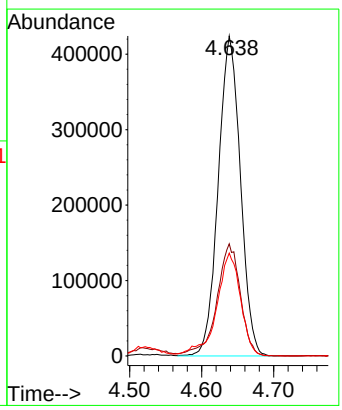


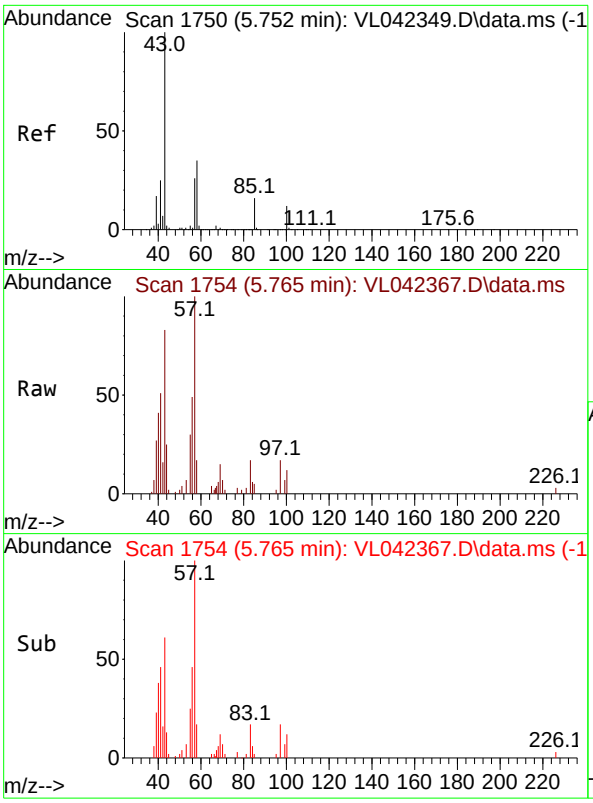


#44
2,2,4-Trimethylpentane
Concen: 14.485 ppbv
RT: 4.638 min Scan# 1406
Delta R.T. -0.003 min
Lab File: VL042367.D
Acq: 17 Apr 2025 20:38

Tgt Ion: 57 Resp: 905076

Ion	Ratio	Lower	Upper
57	100		
41	37.4	27.2	40.8
56	35.0	25.7	38.5



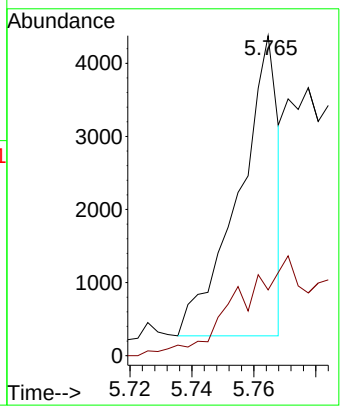


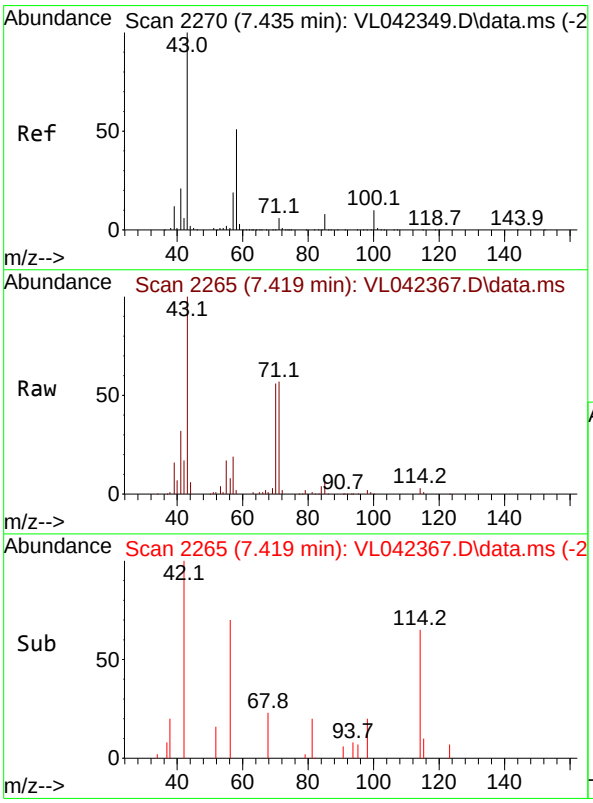
#50
4-Methyl-2-Pentanone
Concen: 0.083 ppbv
RT: 5.765 min Scan# 1
Delta R.T. 0.013 min
Lab File: VL042367.D
Acq: 17 Apr 2025 20:38

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025

Tgt Ion: 43 Resp: 3640

Ion	Ratio	Lower	Upper
43	100		
58	88.1	28.6	43.0#

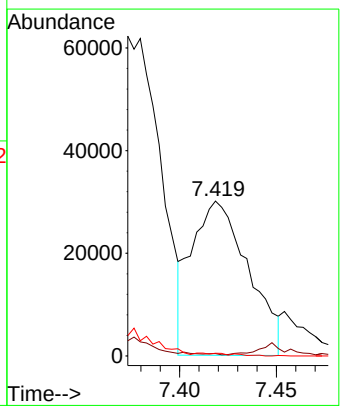


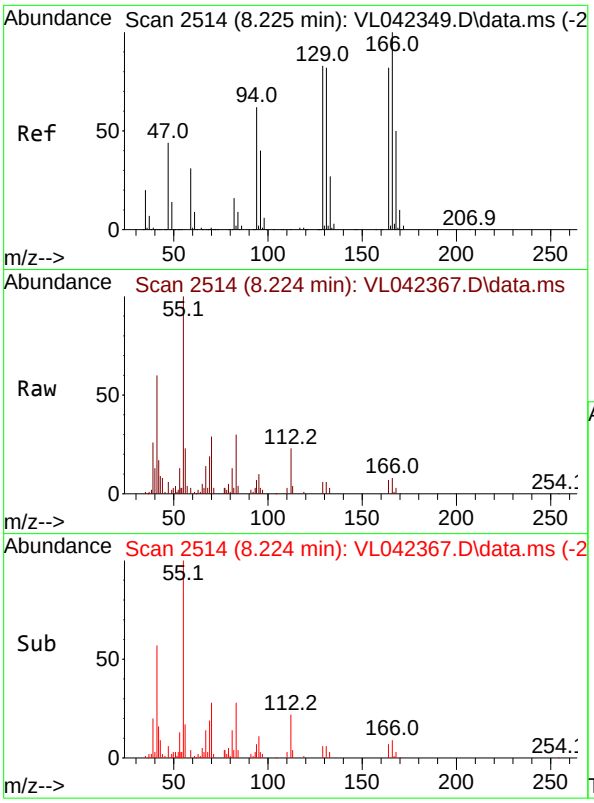


#51
2-Hexanone
Concen: 1.551 ppbv
RT: 7.419 min Scan# 2265
Delta R.T. -0.016 min
Lab File: VL042367.D
Acq: 17 Apr 2025 20:38

Tgt Ion: 43 Resp: 61300

Ion	Ratio	Lower	Upper
43	100		
58	0.0	40.2	60.4#
98	0.0	0.1	0.1#



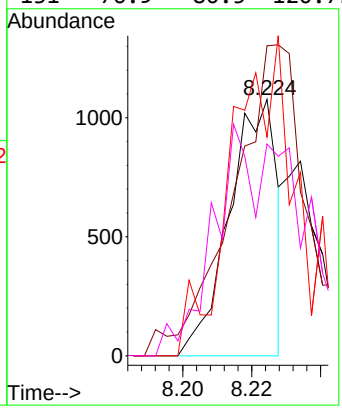


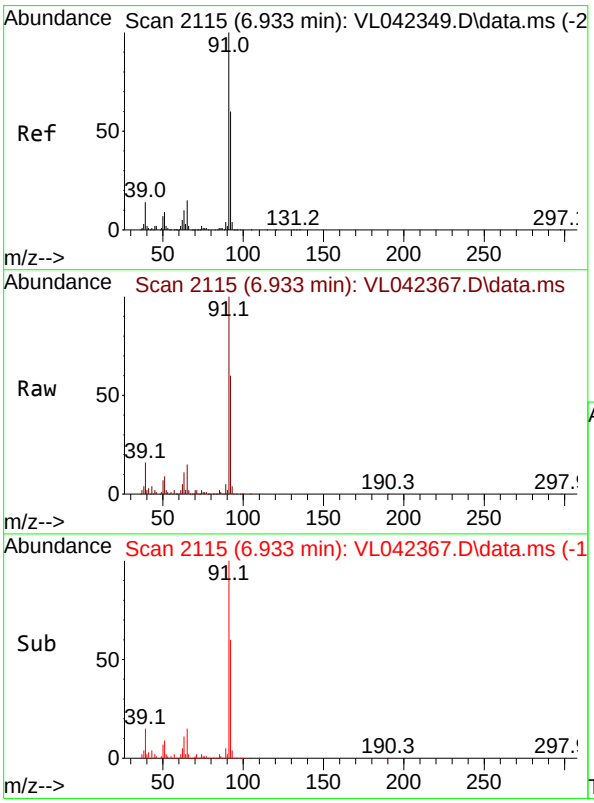
#52
Tetrachloroethene
Concen: 0.074 ppbv
RT: 8.224 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL042367.D
Acq: 17 Apr 2025 20:38

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025

Tgt Ion:164 Resp: 1031

Ion	Ratio	Lower	Upper
164	100		
166	112.8	98.2	147.2
129	85.4	81.8	122.8
131	76.9	80.5	120.7#

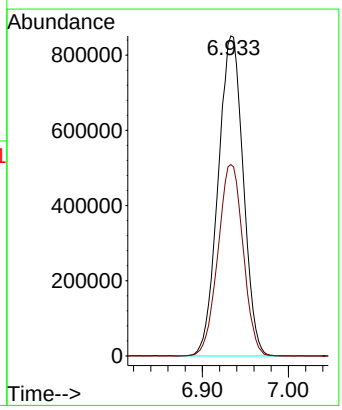


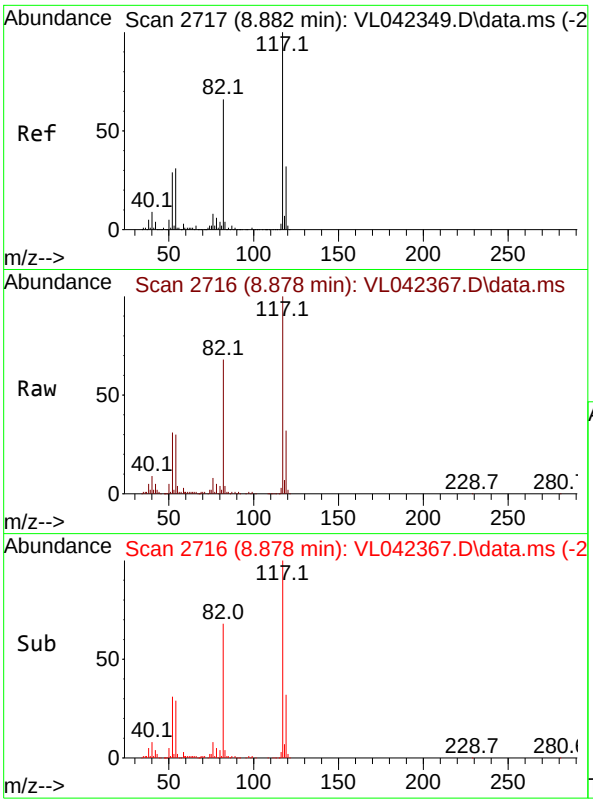


#53
Toluene
Concen: 39.680 ppbv
RT: 6.933 min Scan# 2115
Delta R.T. -0.000 min
Lab File: VL042367.D
Acq: 17 Apr 2025 20:38

Tgt Ion: 91 Resp: 1722699

Ion	Ratio	Lower	Upper
91	100		
92	60.1	48.2	72.4



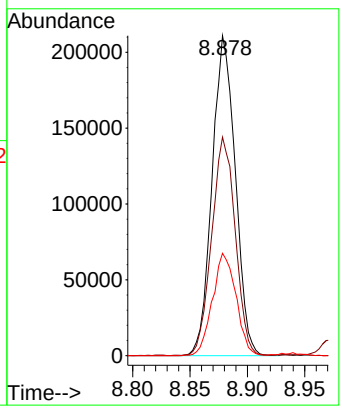


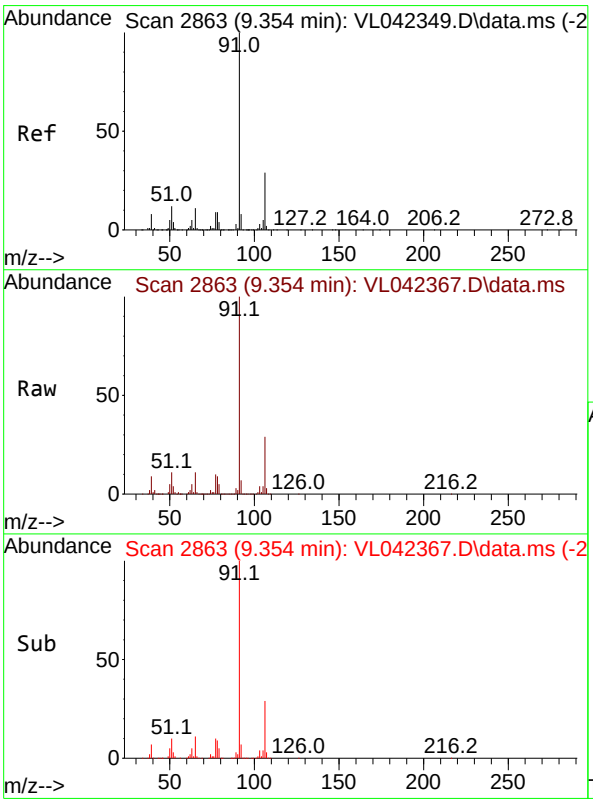
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.878 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL042367.D
Acq: 17 Apr 2025 20:38

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025

Tgt Ion:117 Resp: 296955

Ion	Ratio	Lower	Upper
117	100		
82	69.4	57.8	86.6
119	32.6	25.2	37.8

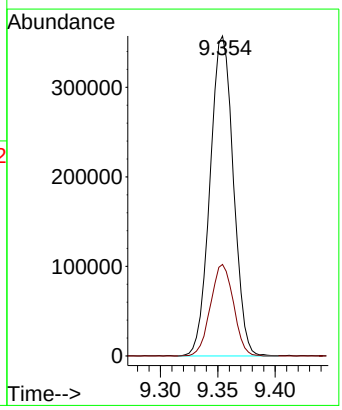


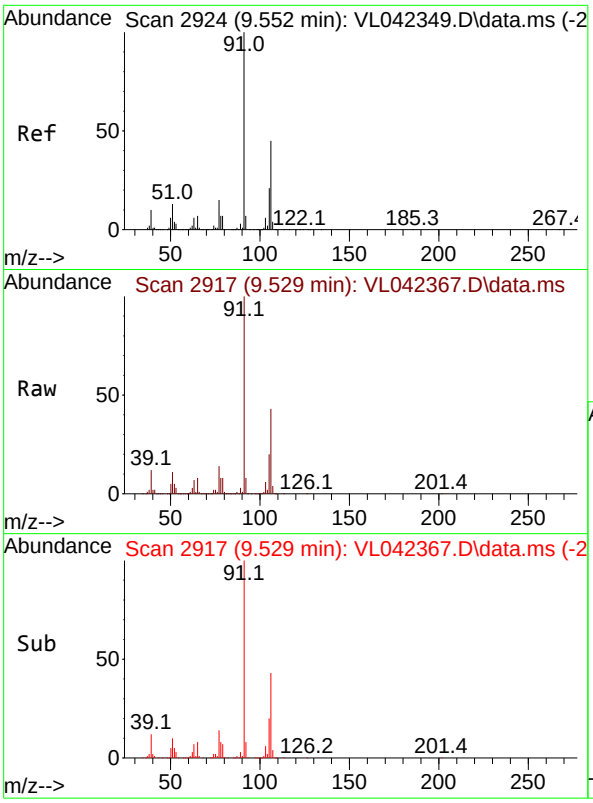


#58
Ethyl Benzene
Concen: 8.592 ppbv
RT: 9.354 min Scan# 2863
Delta R.T. -0.000 min
Lab File: VL042367.D
Acq: 17 Apr 2025 20:38

Tgt Ion: 91 Resp: 505495

Ion	Ratio	Lower	Upper
91	100		
106	28.6	23.0	34.4



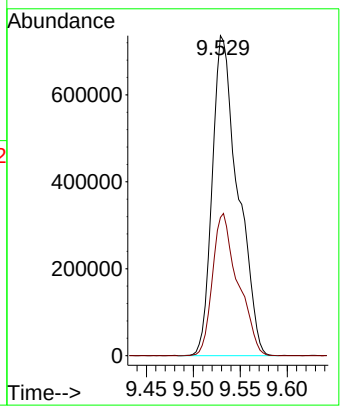


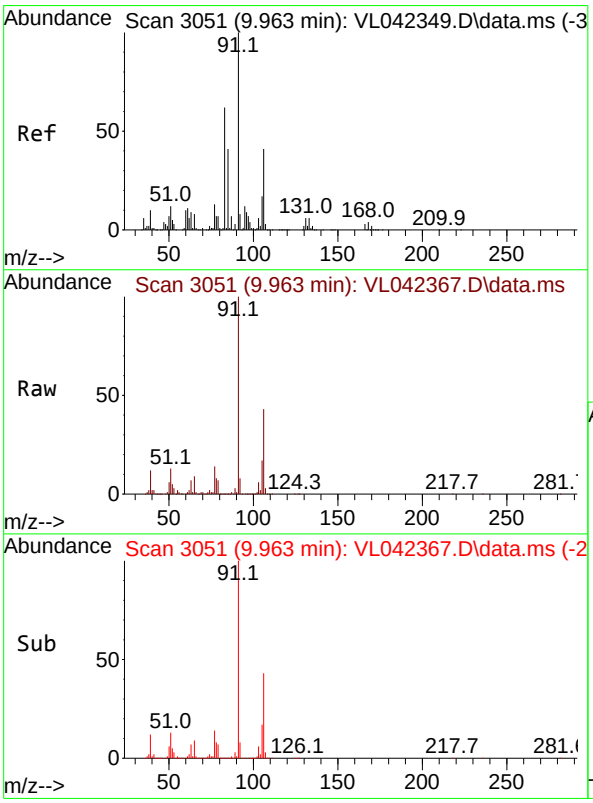
#59
m/p-Xylene
Concen: 29.524 ppbv
RT: 9.529 min Scan# 2
Delta R.T. -0.023 min
Lab File: VL042367.D
Acq: 17 Apr 2025 20:38

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025

Tgt Ion: 91 Resp: 1399337

Ion	Ratio	Lower	Upper
91	100		
106	44.0	35.4	53.2

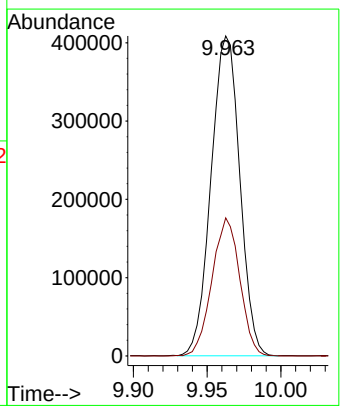


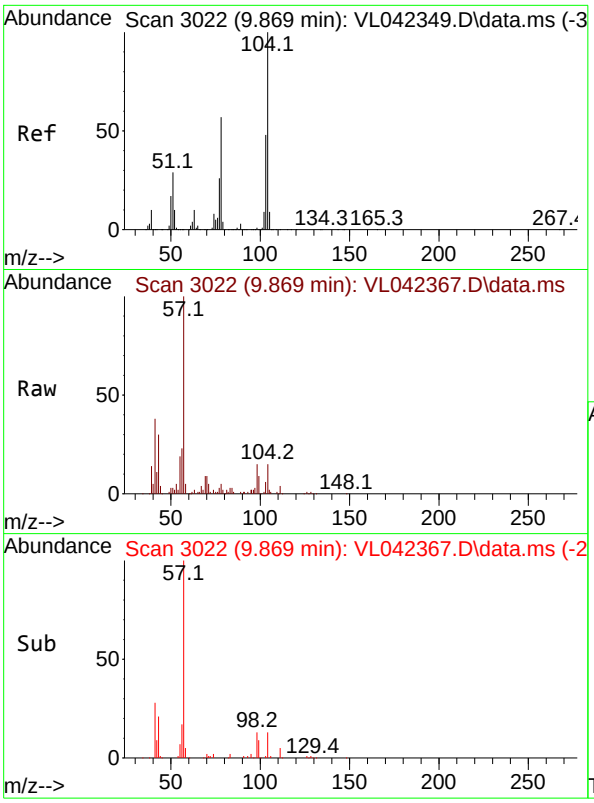


#60
o-Xylene
Concen: 11.586 ppbv
RT: 9.963 min Scan# 3051
Delta R.T. -0.000 min
Lab File: VL042367.D
Acq: 17 Apr 2025 20:38

Tgt Ion: 91 Resp: 552991

Ion	Ratio	Lower	Upper
91	100		
106	41.8	21.1	63.4



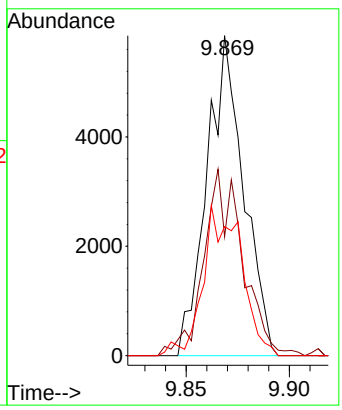


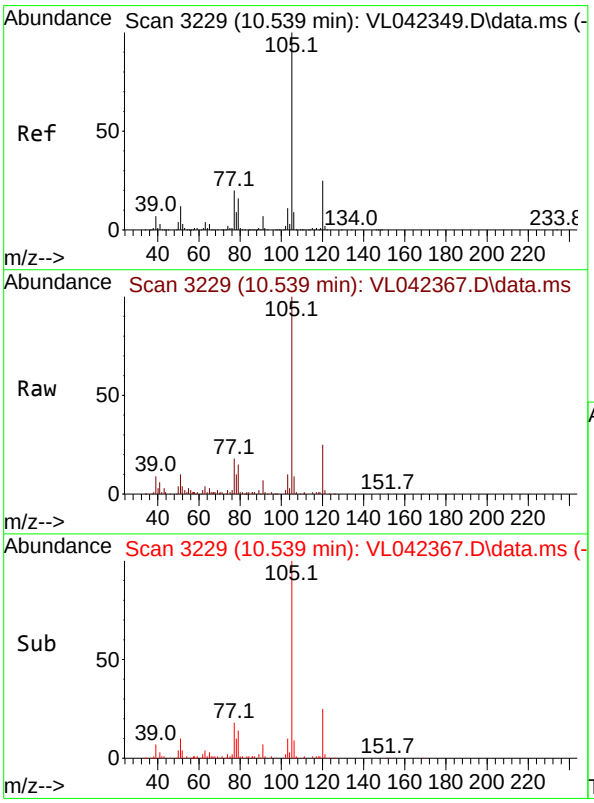
#61
Styrene
Concen: 0.319 ppbv
RT: 9.869 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042367.D
Acq: 17 Apr 2025 20:38

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025

Tgt Ion:104 Resp: 7256

Ion	Ratio	Lower	Upper
104	100		
78	60.9	44.6	66.8
103	48.9	37.4	56.0

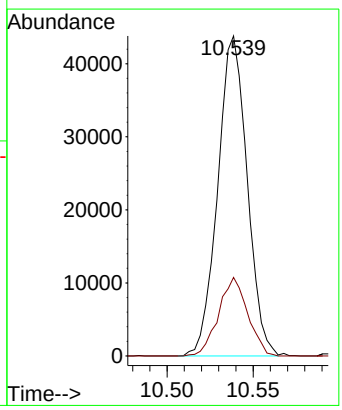


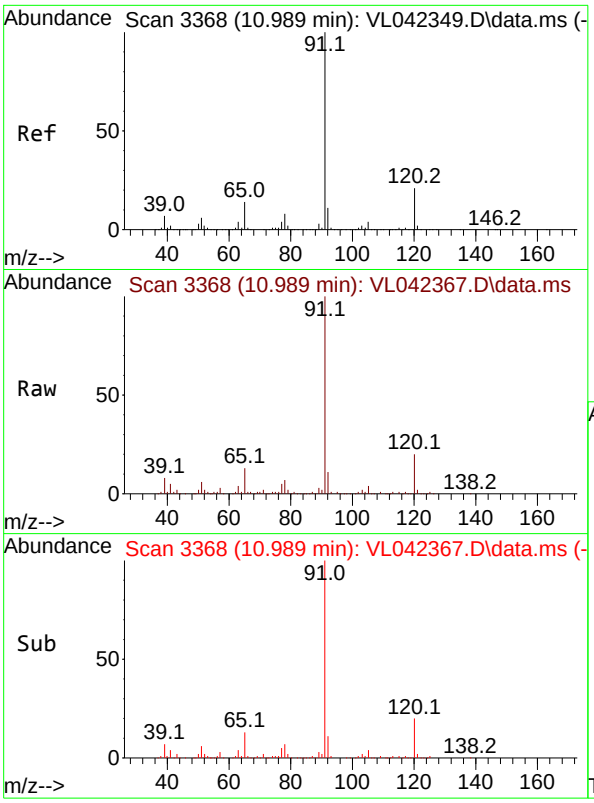


#62
Isopropylbenzene
Concen: 0.744 ppbv
RT: 10.539 min Scan# 3229
Delta R.T. -0.000 min
Lab File: VL042367.D
Acq: 17 Apr 2025 20:38

Tgt Ion:105 Resp: 52108

Ion	Ratio	Lower	Upper
105	100		
120	24.3	19.8	29.8



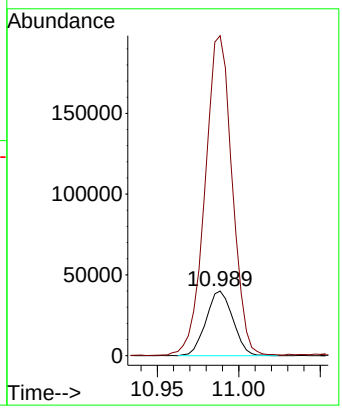


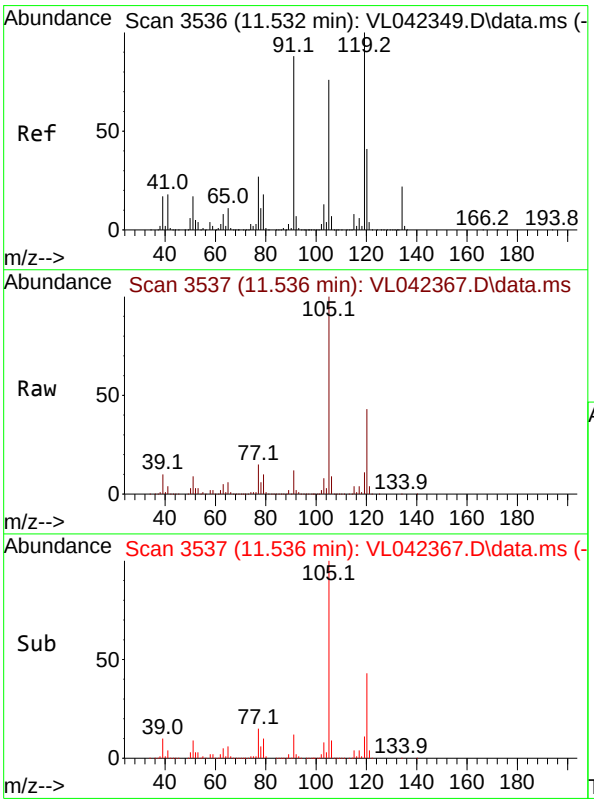
#64
n-propylbenzene
Concen: 2.595 ppbv
RT: 10.989 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042367.D
Acq: 17 Apr 2025 20:38

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025

Tgt Ion:120 Resp: 45701

Ion	Ratio	Lower	Upper
120	100		
91	503.4	392.4	588.6

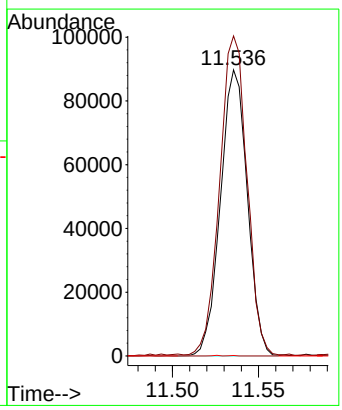


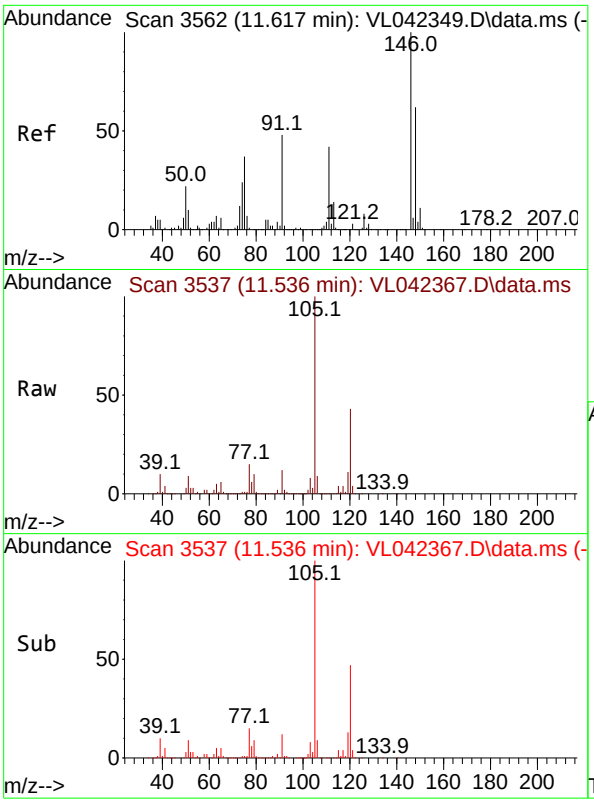


#65
tert-Butylbenzene
Concen: 1.515 ppbv
RT: 11.536 min Scan# 3537
Delta R.T. 0.003 min
Lab File: VL042367.D
Acq: 17 Apr 2025 20:38

Tgt Ion:119 Resp: 97556

Ion	Ratio	Lower	Upper
119	100		
91	113.8	74.6	111.8#
134	0.0	18.8	28.2#



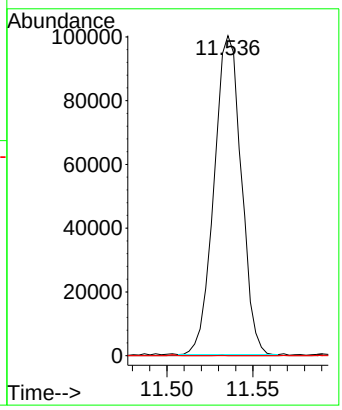


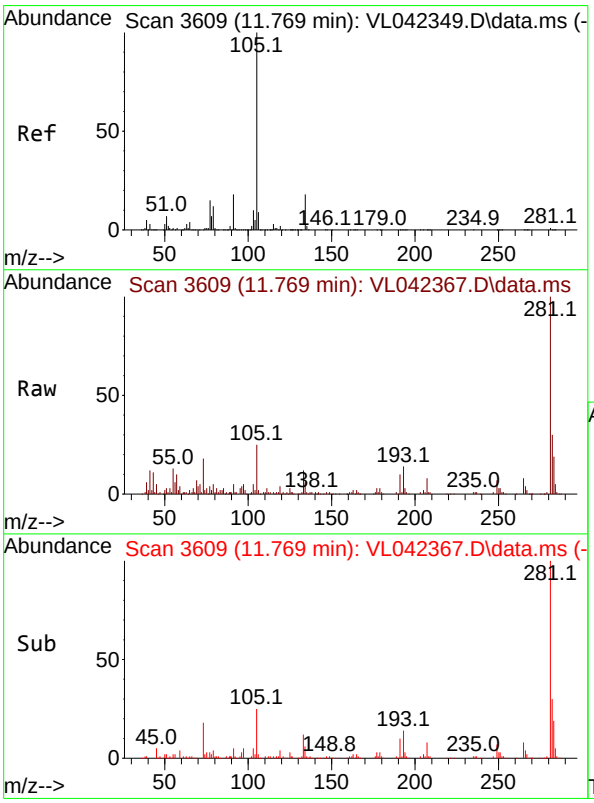
#66
Benzyl Chloride
Concen: 15.509 ppbv
RT: 11.536 min Scan# 3
Delta R.T. -0.081 min
Lab File: VL042367.D
Acq: 17 Apr 2025 20:38

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025

Tgt Ion: 91 Resp: 109757

Ion	Ratio	Lower	Upper
91	100		
126	0.0	11.8	17.6#
128	0.0	4.5	6.7#

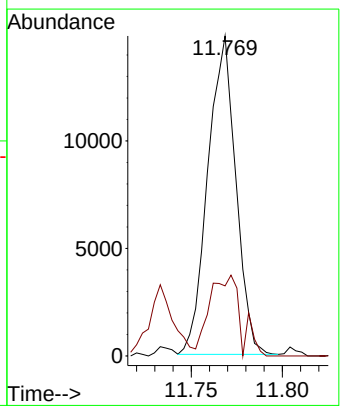


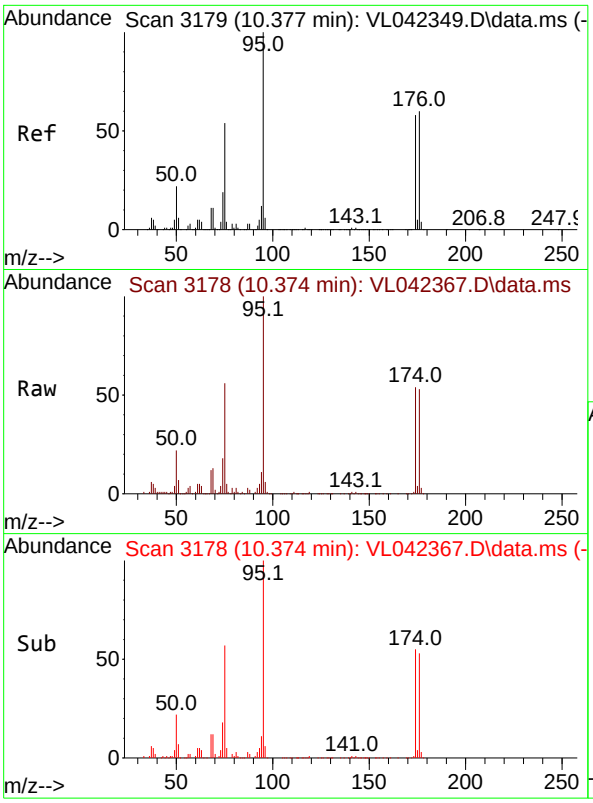


#67
sec-Butylbenzene
Concen: 0.177 ppbv
RT: 11.769 min Scan# 3609
Delta R.T. -0.000 min
Lab File: VL042367.D
Acq: 17 Apr 2025 20:38

Tgt Ion:105 Resp: 15818

Ion	Ratio	Lower	Upper
105	100		
134	28.7	14.6	21.8#



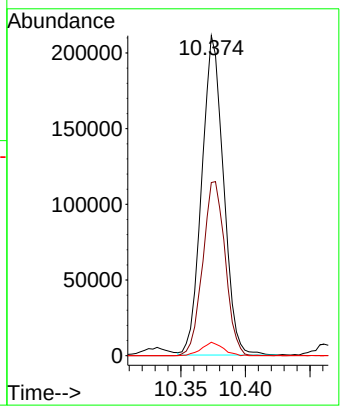


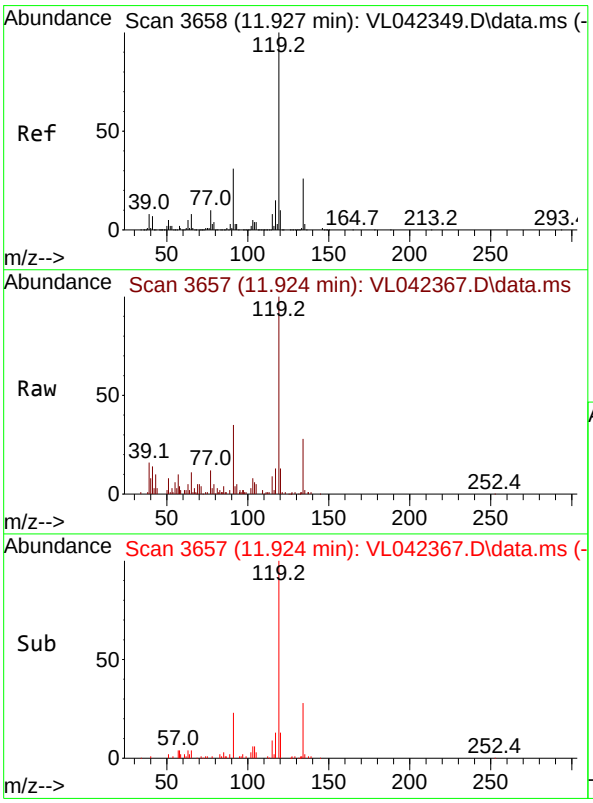
#68
1-Bromo-4-Fluorobenzene
Concen: 10.134 ppbv
RT: 10.374 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042367.D
Acq: 17 Apr 2025 20:38

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025

Tgt Ion: 95 Resp: 247280

Ion	Ratio	Lower	Upper
95	100		
174	56.3	48.5	72.7
175	4.2	3.7	5.5

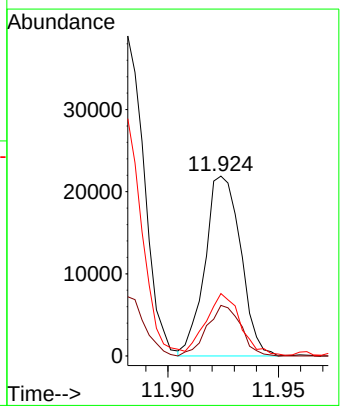


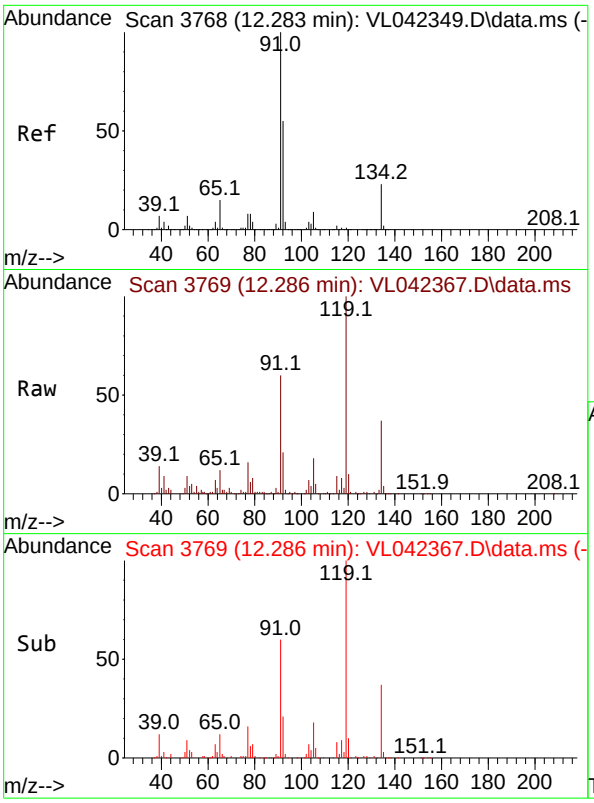


#69
p-Isopropyltoluene
Concen: 0.315 ppbv
RT: 11.924 min Scan# 3657
Delta R.T. -0.003 min
Lab File: VL042367.D
Acq: 17 Apr 2025 20:38

Tgt Ion:119 Resp: 24554

Ion	Ratio	Lower	Upper
119	100		
134	26.2	20.0	30.0
91	33.6	24.4	36.6



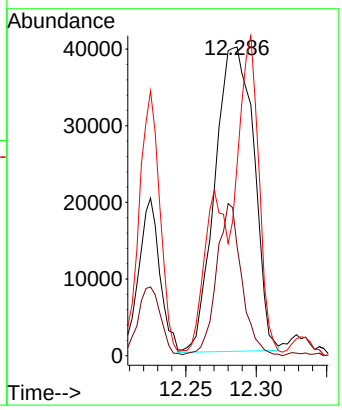


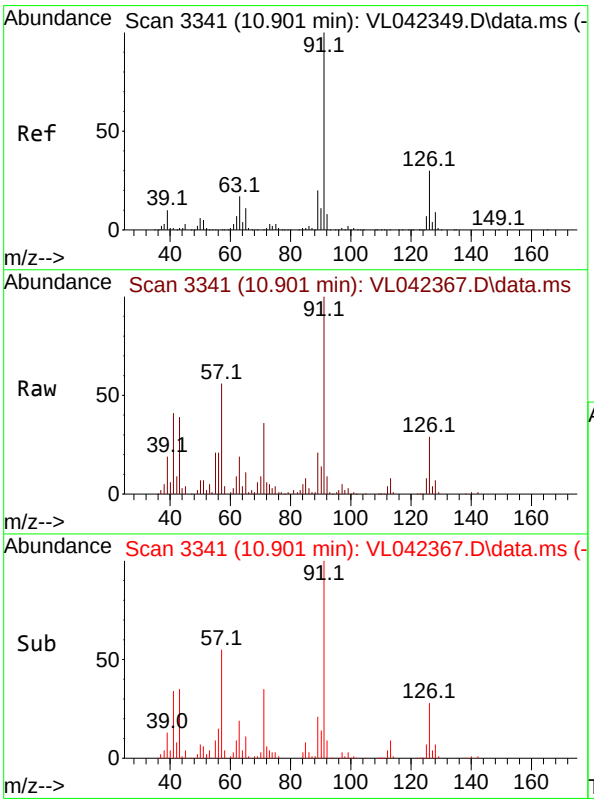
#70
n-Butylbenzene
Concen: 0.940 ppbv
RT: 12.286 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042367.D
Acq: 17 Apr 2025 20:38

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025

Tgt Ion: 91 Resp: 76213

Ion	Ratio	Lower	Upper
91	100		
92	33.3	44.2	66.4#
134	89.1	18.2	27.4#

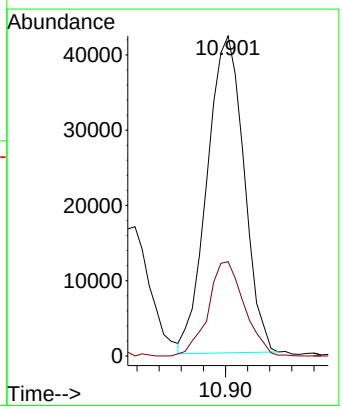


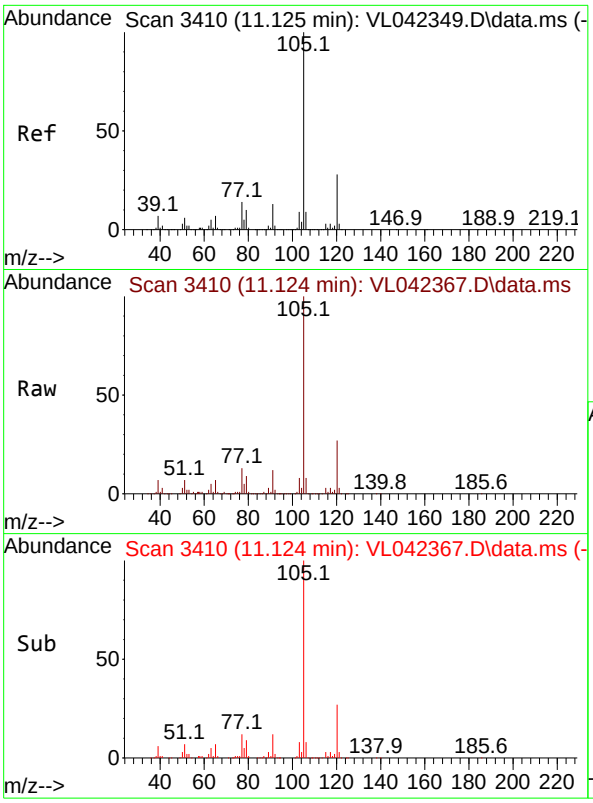


#71
2-Chlorotoluene
Concen: 0.886 ppbv
RT: 10.901 min Scan# 3341
Delta R.T. -0.000 min
Lab File: VL042367.D
Acq: 17 Apr 2025 20:38

Tgt Ion: 91 Resp: 48685

Ion	Ratio	Lower	Upper
91	100		
126	29.3	11.4	45.4



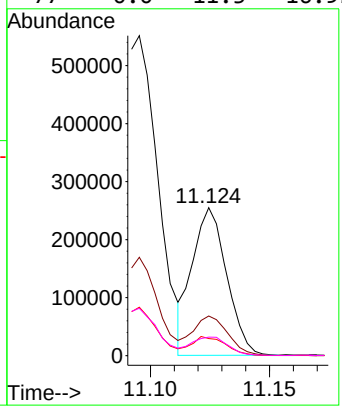


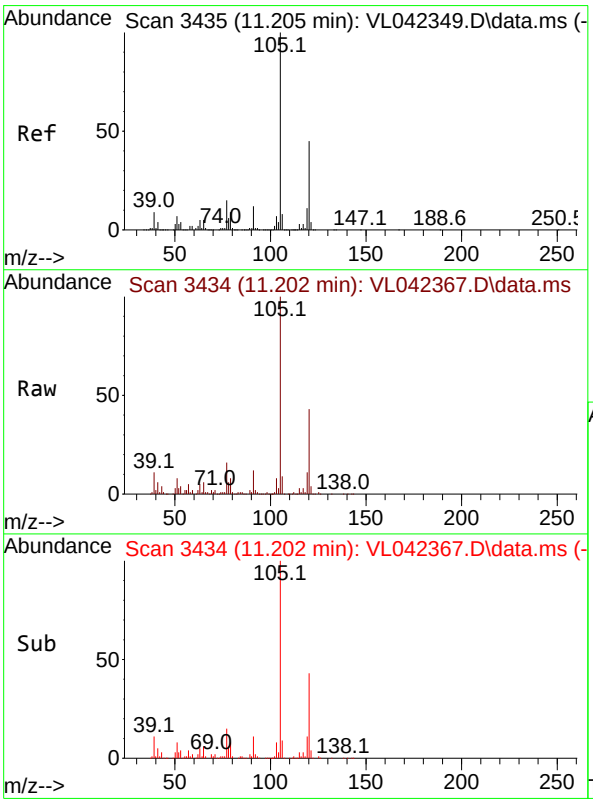
#72
4-Ethyltoluene
Concen: 4.410 ppbv
RT: 11.124 min Scan# 34
Delta R.T. -0.000 min
Lab File: VL042367.D
Acq: 17 Apr 2025 20:38

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025

Tgt Ion:105 Resp: 257296

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#

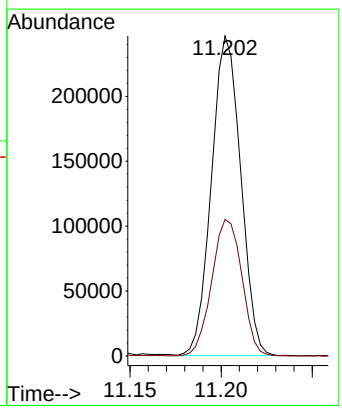


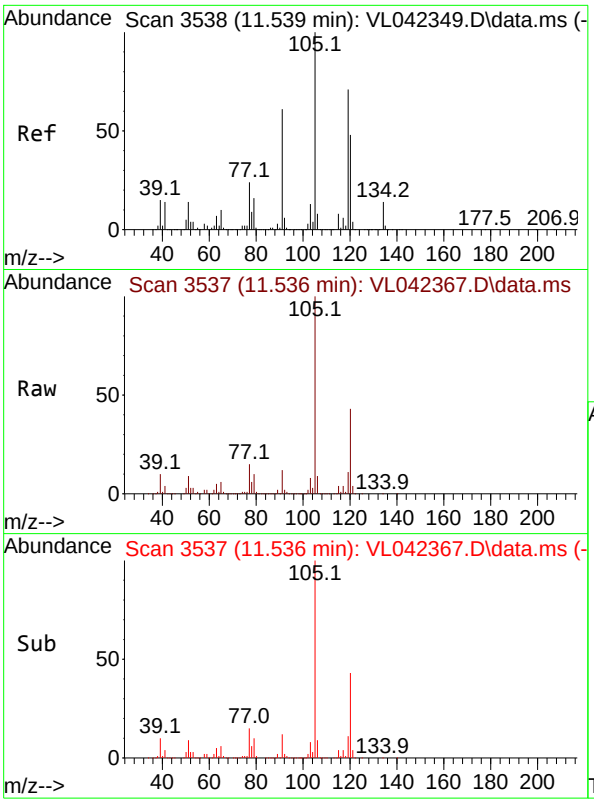


#73
1,3,5-Trimethylbenzene
Concen: 5.343 ppbv
RT: 11.202 min Scan# 3434
Delta R.T. -0.003 min
Lab File: VL042367.D
Acq: 17 Apr 2025 20:38

Tgt Ion:105 Resp: 275258

Ion	Ratio	Lower	Upper
105	100		
120	42.6	35.6	53.4



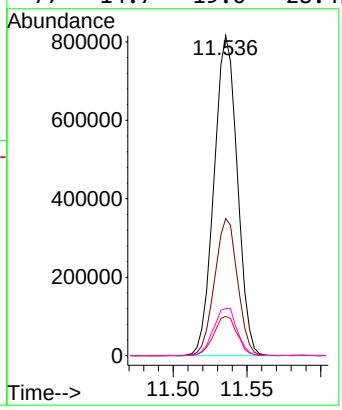


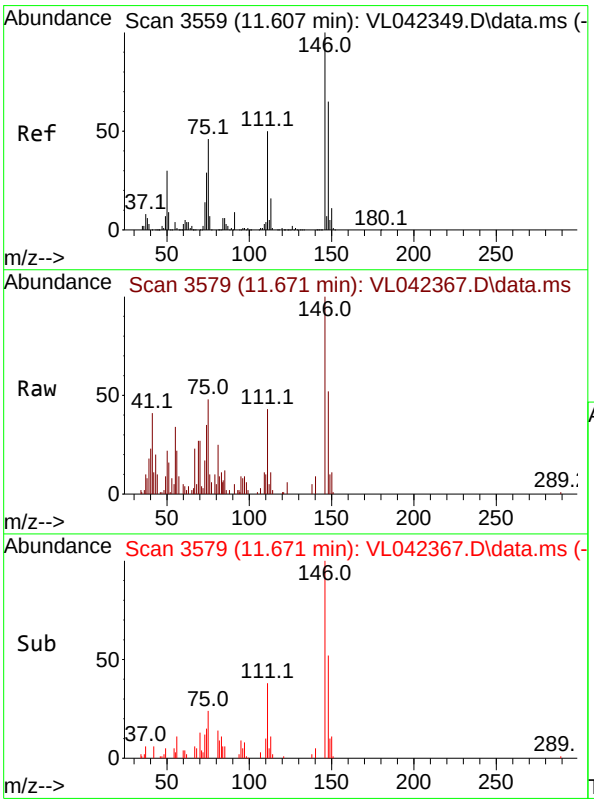
#74
1,2,4-Trimethylbenzene
Concen: 14.886 ppbv
RT: 11.536 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042367.D
Acq: 17 Apr 2025 20:38

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025

Tgt Ion:105 Resp: 895635

Ion	Ratio	Lower	Upper
105	100		
120	42.9	38.1	57.1
91	12.3	48.8	73.2#
77	14.7	19.0	28.4#

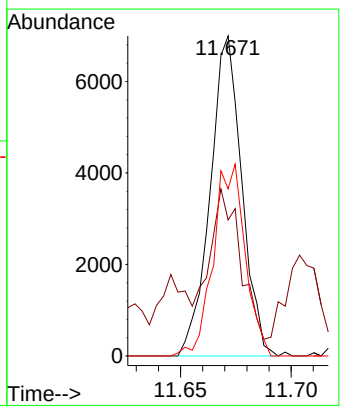


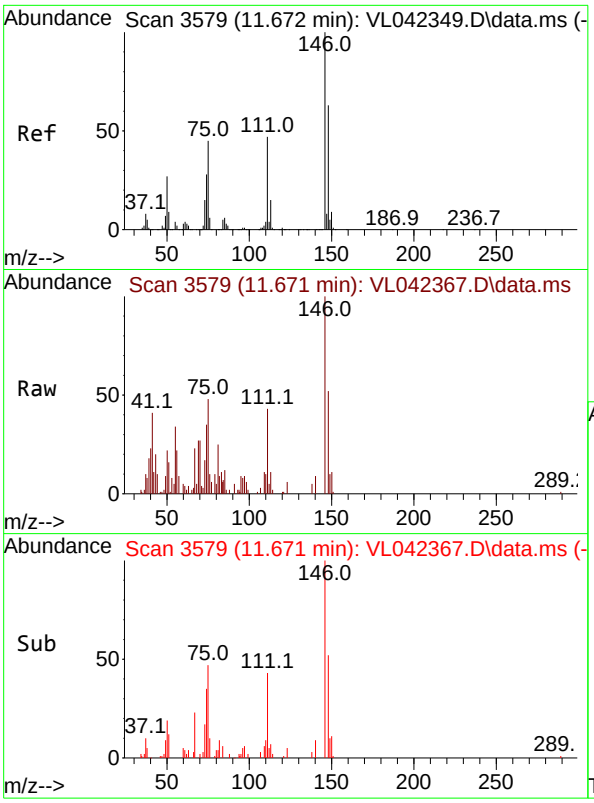


#75
1,3-Dichlorobenzene
Concen: 0.222 ppbv
RT: 11.671 min Scan# 3579
Delta R.T. 0.065 min
Lab File: VL042367.D
Acq: 17 Apr 2025 20:38

Tgt Ion:146 Resp: 6955

Ion	Ratio	Lower	Upper
146	100		
111	71.1	24.3	72.8
148	60.3	31.6	94.8



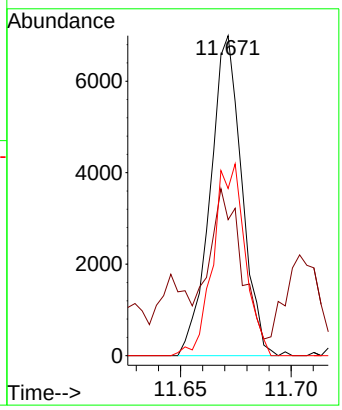


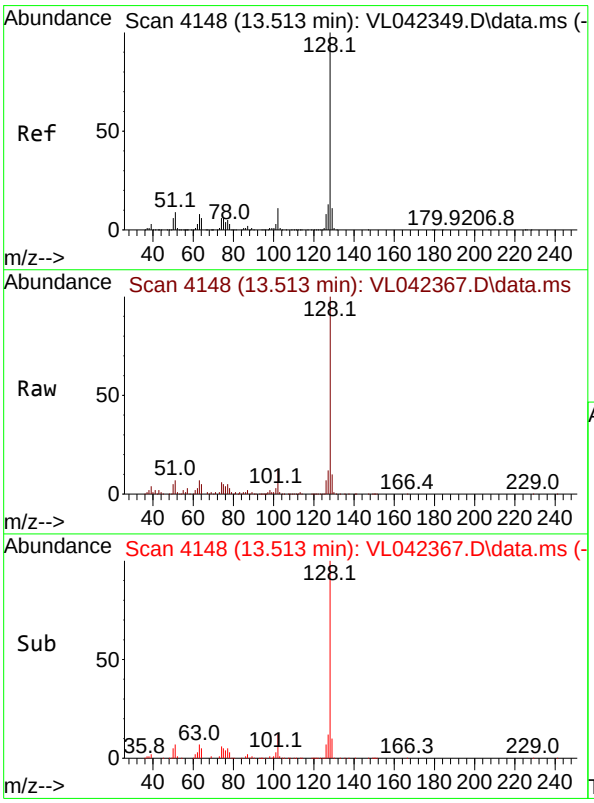
#76
1,4-Dichlorobenzene
Concen: 0.221 ppbv
RT: 11.671 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042367.D
Acq: 17 Apr 2025 20:38

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025

Tgt Ion:146 Resp: 6955

Ion	Ratio	Lower	Upper
146	100		
111	92.3	24.2	72.6#
148	60.3	32.1	96.5

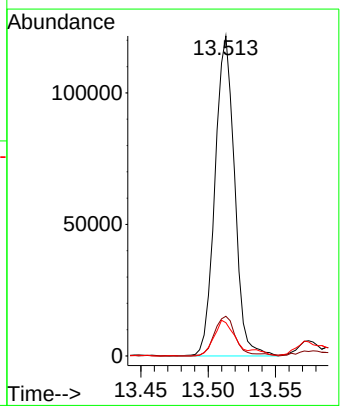


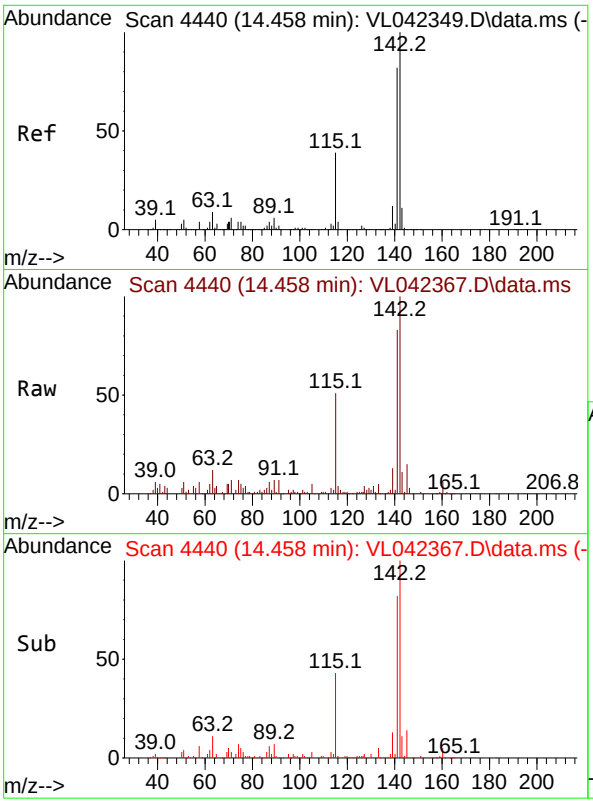


#79
Naphthalene
Concen: 1.709 ppbv
RT: 13.513 min Scan# 4148
Delta R.T. -0.000 min
Lab File: VL042367.D
Acq: 17 Apr 2025 20:38

Tgt Ion:128 Resp: 122970

Ion	Ratio	Lower	Upper
128	100		
127	12.4	10.6	15.8
129	10.4	8.6	12.8



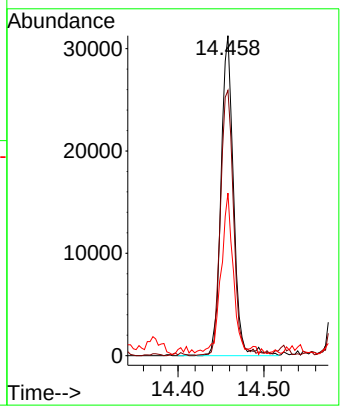


#80
Naphthalene,2-methyl-
Concen: 0.769 ppbv
RT: 14.458 min Scan# 44
Delta R.T. -0.000 min
Lab File: VL042367.D
Acq: 17 Apr 2025 20:38

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025

Tgt Ion:142 Resp: 31538

Ion	Ratio	Lower	Upper
142	100		
141	87.8	66.8	100.2
115	49.3	33.4	50.2



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042368.D
Acq On : 17 Apr 2025 21:12
Operator : SY/MD
Sample : Q1726-03
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-2-03312025

Quant Time: Apr 18 02:43:48 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	119191	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.962	114	333003	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.882	117	297493	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.377	95	243044	9.942	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 99.400%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.499	85	9795	0.465	ppbv		96
3) Chlorodifluoromethane	1.467	51	69957	3.489	ppbv	#	62
4) Chloromethane	1.531	50	11453	1.374	ppbv		96
6) Bromomethane	1.671	94	234	0.060	ppbv	#	8
7) Chloroethane	1.703	64	346	0.105	ppbv	#	85
9) Propene	1.557	41	125014	13.689	ppbv		97
10) Heptane	4.982	43	76723	2.990	ppbv		97
11) Trichlorofluoromethane	1.878	101	4992	0.249	ppbv		88
12) 1,1,2-Trichlorotrifluo...	2.140	101	1393	0.085	ppbv		95
13) Ethanol	1.722	45	334088	230.163	ppbv		75
15) Acetone	1.836	43	3440620	176.335	ppbv	#	36
16) 1,3-Butadiene	1.622	39	31987	3.428	ppbv	#	17
17) tert-Butyl alcohol	2.276	59	37546	1.553	ppbv		99
19) Isopropyl Alcohol	1.887	45	473769	43.709	ppbv	#	33
20) Methylene Chloride	2.062	84	40932	5.357	ppbv		94
21) Allyl Chloride	2.046	41	4879	0.362	ppbv	#	22
23) Vinyl Acetate	2.457	43	36701	4.647	ppbv	#	91
25) Ethyl Acetate	2.826	43	63042	1.310	ppbv	#	86
26) Hexane	2.826	57	82957	4.261	ppbv	#	35
27) Carbon Disulfide	2.150	76	919	0.044	ppbv	#	42
30) Cyclohexane	3.855	84	15212	0.967	ppbv	#	91
34) 2-Butanone	2.561	43	40042	1.520	ppbv		99
35) Carbon Tetrachloride	3.768	117	2143	0.071	ppbv	#	67
36) Benzene	3.658	78	32372	0.901	ppbv		98
37) 1,2-Dichloroethane	3.221	62	3461	0.161	ppbv	#	96
39) 1,2-Dichloropropane	3.956	63	86880	6.491	ppbv	#	22
41) Tetrahydrofuran	3.066	42	4138	0.269	ppbv	#	79
44) 2,2,4-Trimethylpentane	4.642	57	521960	8.414	ppbv		96
50) 4-Methyl-2-Pentanone	5.762	43	2346	0.054	ppbv	#	1
51) 2-Hexanone	7.442	43	4683	0.119	ppbv	#	27
52) Tetrachloroethene	8.234	164	1006	0.072	ppbv	#	76
53) Toluene	6.933	91	806485	18.711	ppbv		99
58) Ethyl Benzene	9.358	91	214751	3.643	ppbv		99
59) m/p-Xylene	9.532	91	599749	12.631	ppbv		100
60) o-Xylene	9.966	91	238681	4.992	ppbv		99
61) Styrene	9.875	104	9022	0.395	ppbv		95
62) Isopropylbenzene	10.539	105	23690	0.337	ppbv		96
64) n-propylbenzene	10.989	120	18420	1.044	ppbv		85
65) tert-Butylbenzene	11.539	119	37957	0.588	ppbv	#	71
66) Benzyl Chloride	11.539	91	43222	6.096	ppbv	#	74
67) sec-Butylbenzene	11.766	105	8800	0.098	ppbv	#	50
69) p-Isopropyltoluene	11.928	119	14319	0.184	ppbv		96
70) n-Butylbenzene	12.280	91	19345	0.238	ppbv	#	82

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042368.D
Acq On : 17 Apr 2025 21:12
Operator : SY/MD
Sample : Q1726-03
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-2-03312025

Quant Time: Apr 18 02:43:48 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

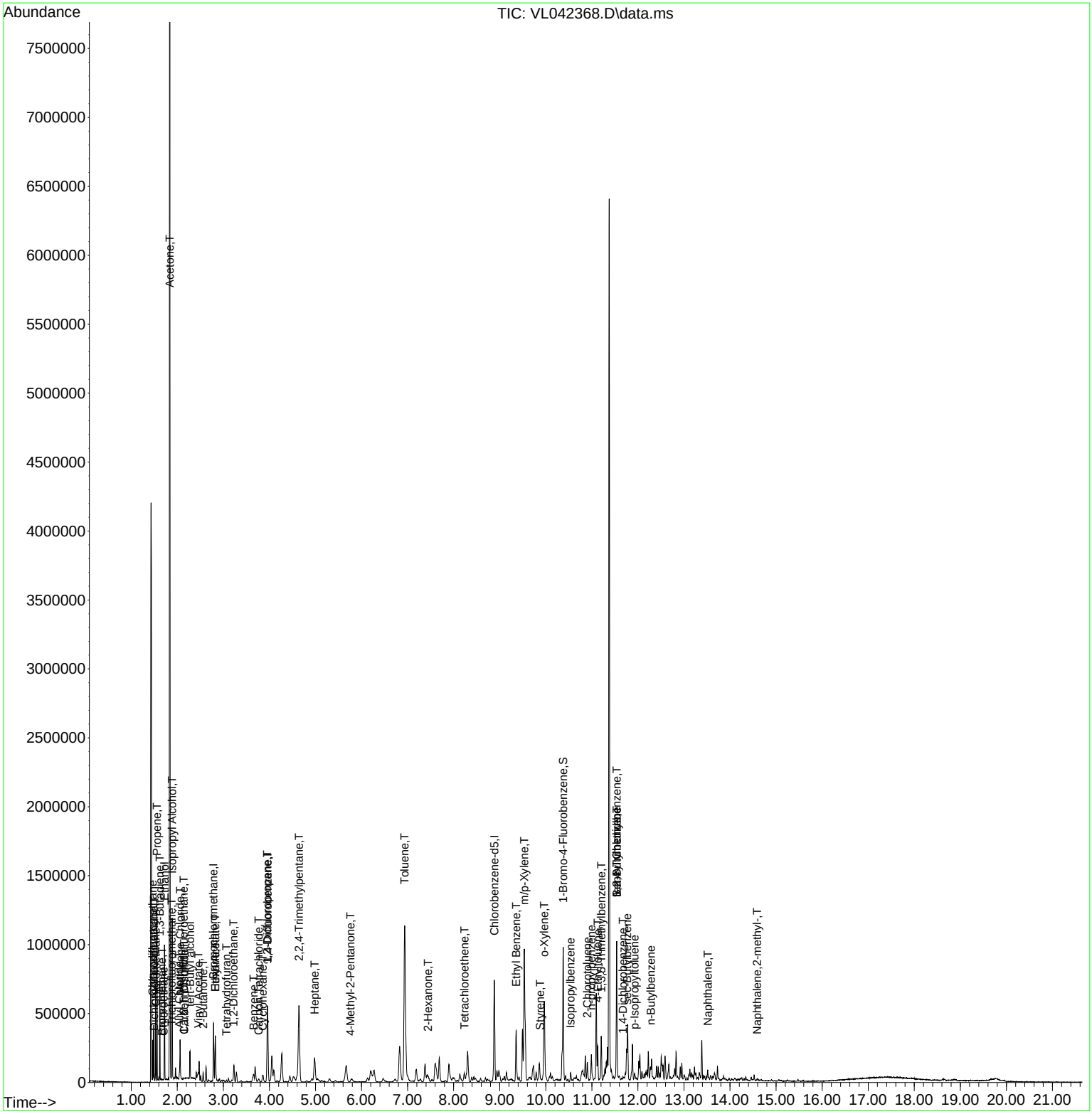
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
71) 2-Chlorotoluene	10.905	91	28490	0.517	ppbv		99
72) 4-Ethyltoluene	11.128	105	107491	1.839	ppbv	#	56
73) 1,3,5-Trimethylbenzene	11.206	105	109907	2.130	ppbv		95
74) 1,2,4-Trimethylbenzene	11.539	105	349266	5.794	ppbv	#	64
76) 1,4-Dichlorobenzene	11.672	146	3251	0.103	ppbv		93
79) Naphthalene	13.517	128	30244	0.420	ppbv		99
80) Naphthalene,2-methyl-	14.588	142	4067	0.099	ppbv		96

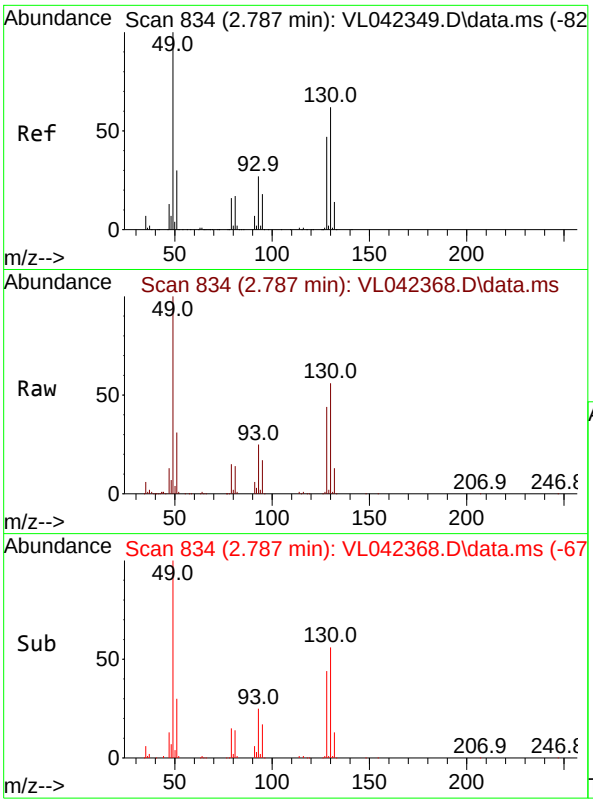
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042368.D
Acq On : 17 Apr 2025 21:12
Operator : SY/MD
Sample : Q1726-03
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-2-03312025

Quant Time: Apr 18 02:43:48 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



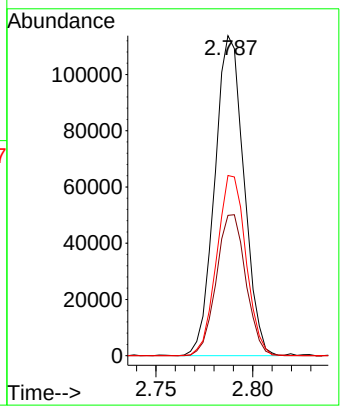


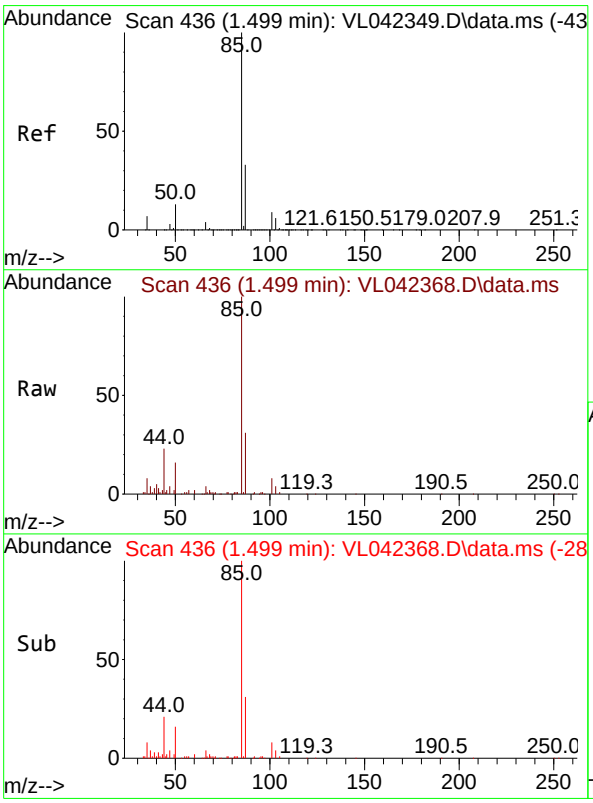
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 8
Delta R.T. 0.000 min
Lab File: VL042368.D
Acq: 17 Apr 2025 21:12

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-2-03312025

Tgt Ion: 49 Resp: 119191

Ion	Ratio	Lower	Upper
49	100		
128	44.4	22.8	68.4
130	56.2	29.3	88.0

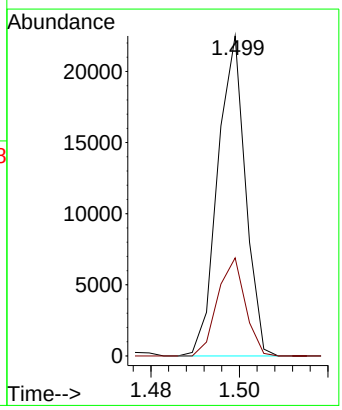


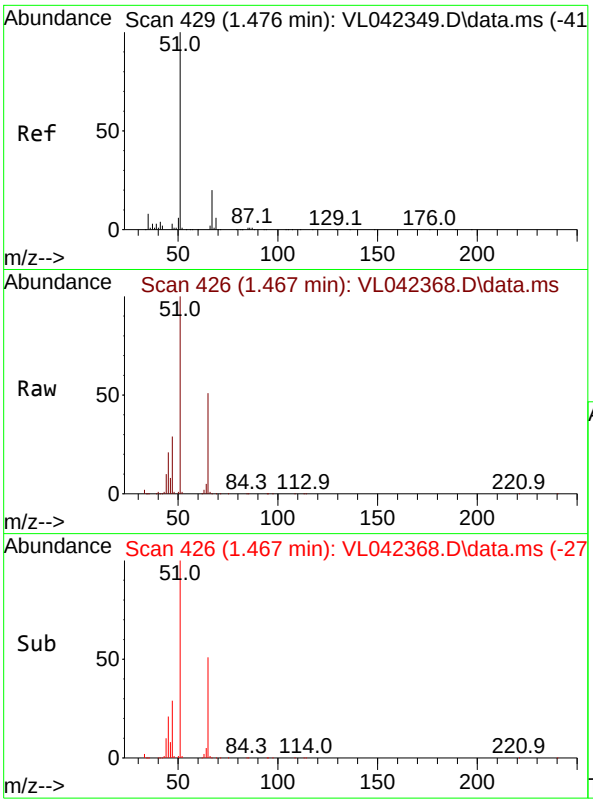


#2
Dichlorodifluoromethane
Concen: 0.465 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.000 min
Lab File: VL042368.D
Acq: 17 Apr 2025 21:12

Tgt Ion: 85 Resp: 9795

Ion	Ratio	Lower	Upper
85	100		
87	30.7	26.6	39.8



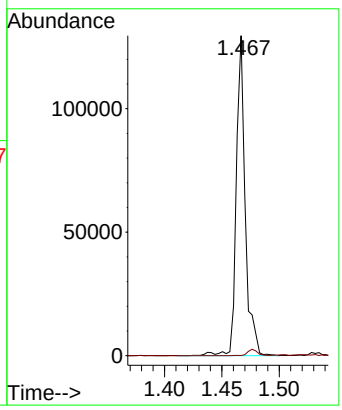


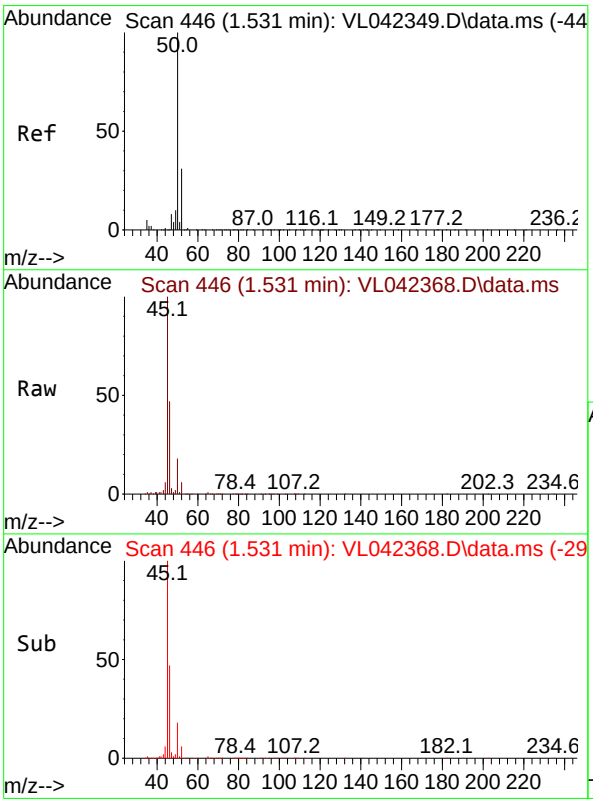
#3
Chlorodifluoromethane
Concen: 3.489 ppbv
RT: 1.467 min Scan# 4
Delta R.T. -0.009 min
Lab File: VL042368.D
Acq: 17 Apr 2025 21:12

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-2-03312025

Tgt Ion: 51 Resp: 69957

Ion	Ratio	Lower	Upper
51	100		
67	2.6	16.2	24.4#

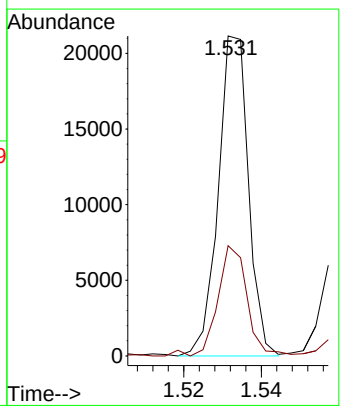


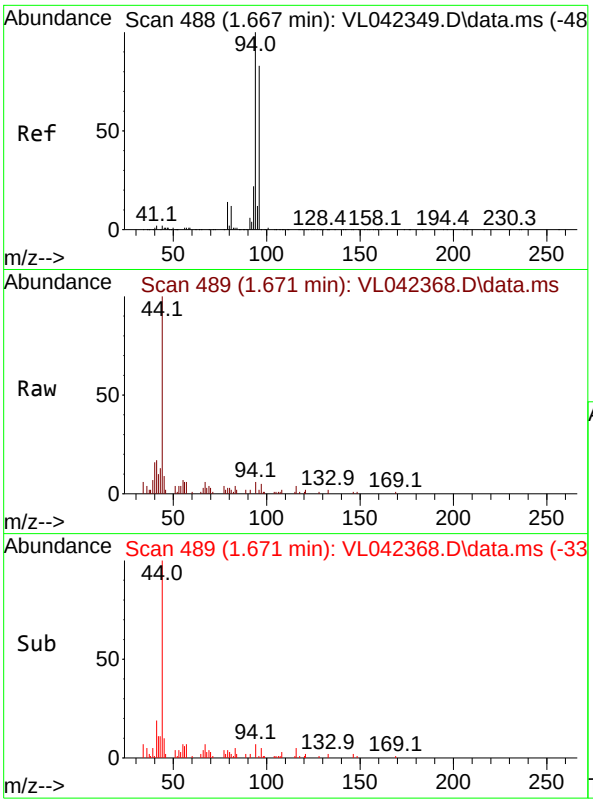


#4
Chloromethane
Concen: 1.374 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL042368.D
Acq: 17 Apr 2025 21:12

Tgt Ion: 50 Resp: 11453

Ion	Ratio	Lower	Upper
50	100		
52	33.2	24.7	37.1



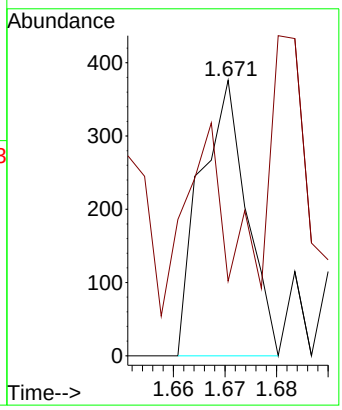


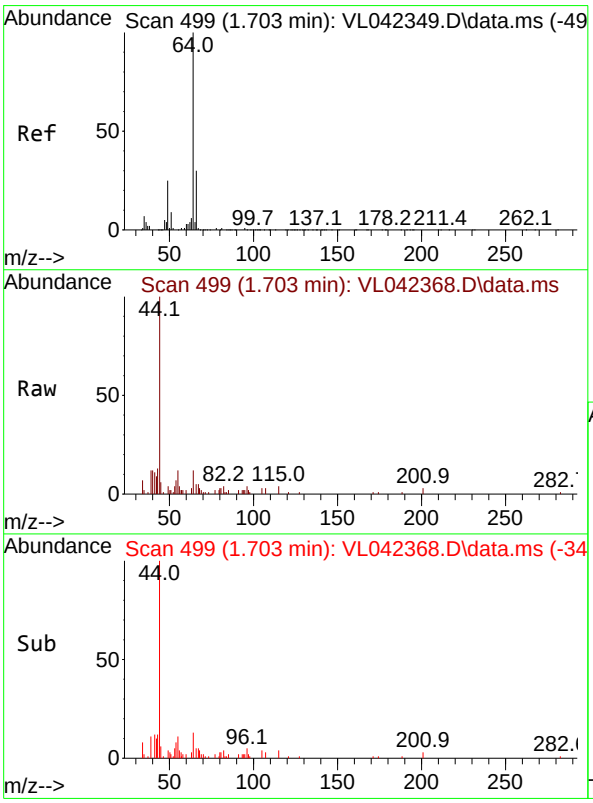
#6
Bromomethane
Concen: 0.060 ppbv
RT: 1.671 min Scan# 4
Delta R.T. 0.004 min
Lab File: VL042368.D
Acq: 17 Apr 2025 21:12

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-2-03312025

Tgt Ion: 94 Resp: 234

Ion	Ratio	Lower	Upper
94	100		
96	0.0	66.2	99.2#

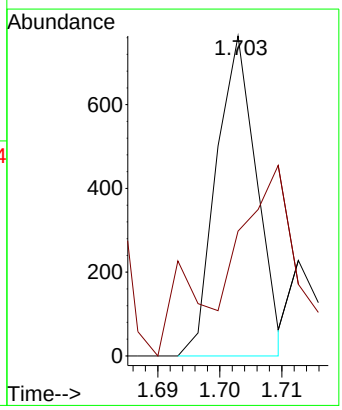


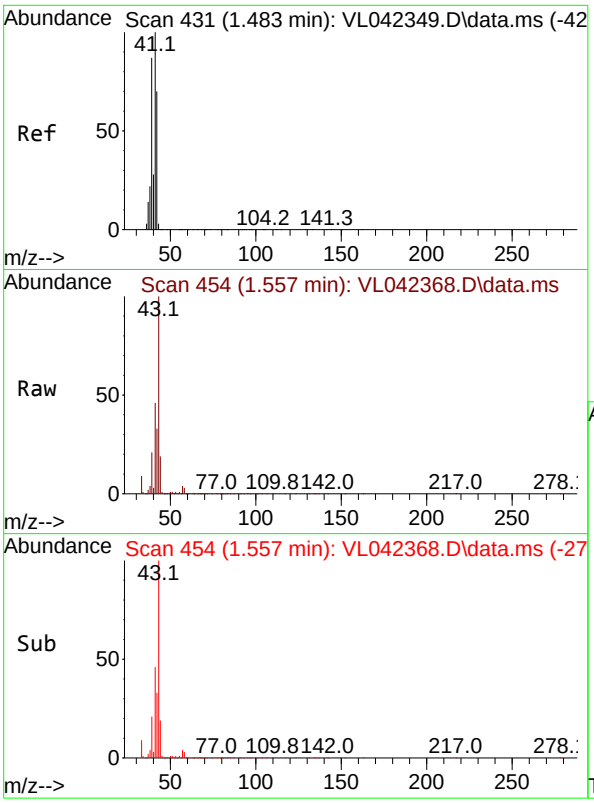


#7
Chloroethane
Concen: 0.105 ppbv
RT: 1.703 min Scan# 499
Delta R.T. 0.000 min
Lab File: VL042368.D
Acq: 17 Apr 2025 21:12

Tgt Ion: 64 Resp: 346

Ion	Ratio	Lower	Upper
64	100		
66	39.0	24.6	37.0#



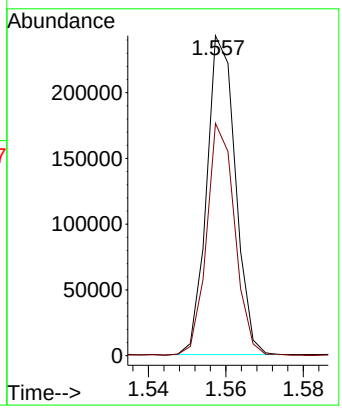


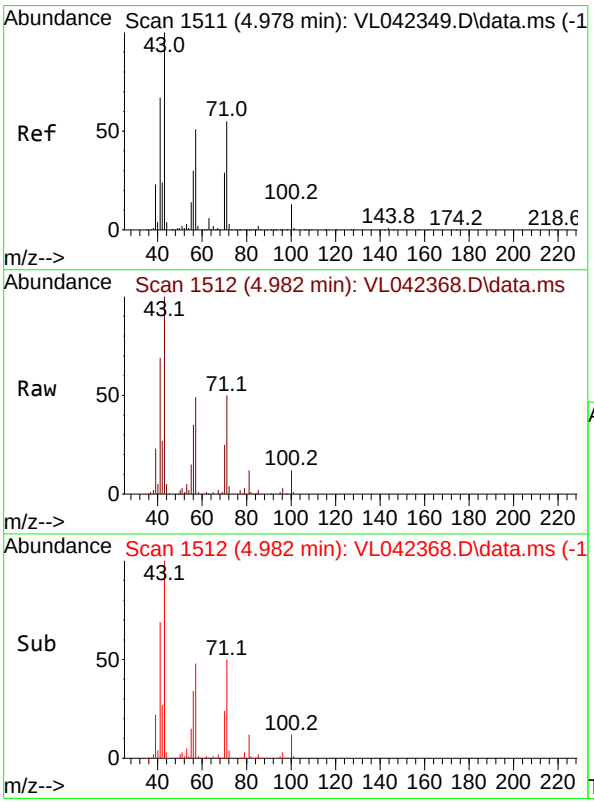
#9
Propene
Concen: 13.689 ppbv
RT: 1.557 min Scan# 4
Delta R.T. 0.075 min
Lab File: VL042368.D
Acq: 17 Apr 2025 21:12

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-2-03312025

Tgt Ion: 41 Resp: 125014

Ion	Ratio	Lower	Upper
41	100		
42	72.6	56.2	84.4

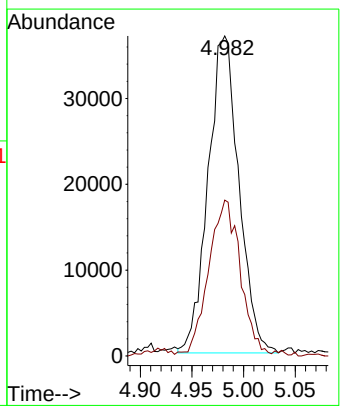


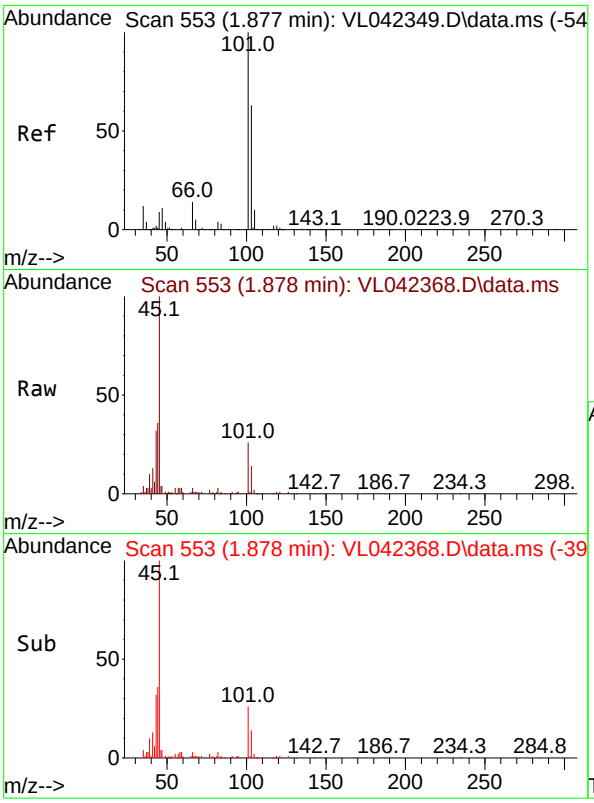


#10
Heptane
Concen: 2.990 ppbv
RT: 4.982 min Scan# 1512
Delta R.T. 0.004 min
Lab File: VL042368.D
Acq: 17 Apr 2025 21:12

Tgt Ion: 43 Resp: 76723

Ion	Ratio	Lower	Upper
43	100		
57	51.7	39.9	59.9



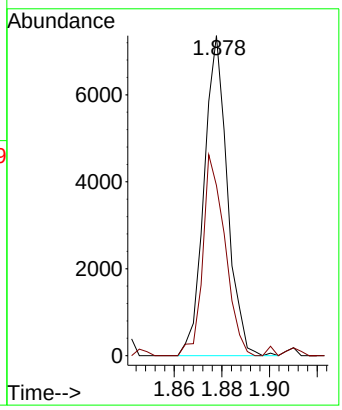


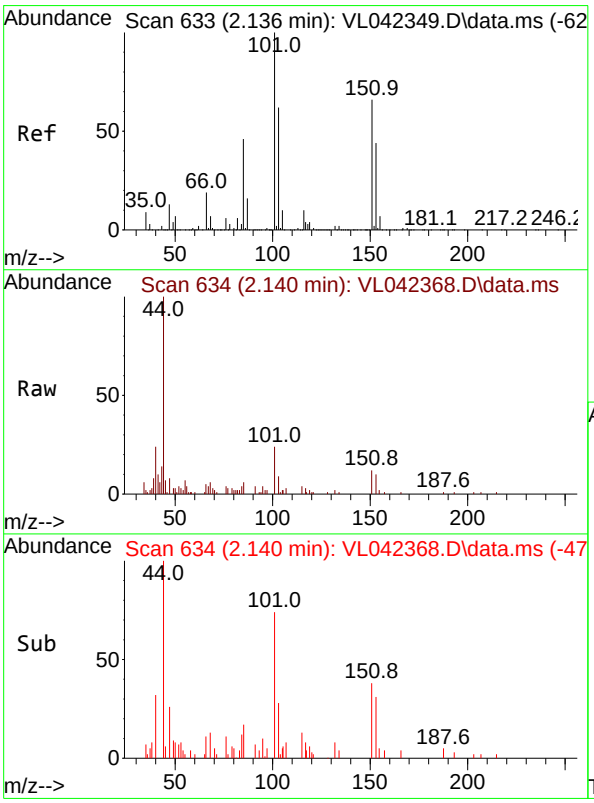
#11
Trichlorofluoromethane
Concen: 0.249 ppbv
RT: 1.878 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL042368.D
Acq: 17 Apr 2025 21:12

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-2-03312025

Tgt Ion:101 Resp: 4992

Ion	Ratio	Lower	Upper
101	100		
103	53.2	50.1	75.1

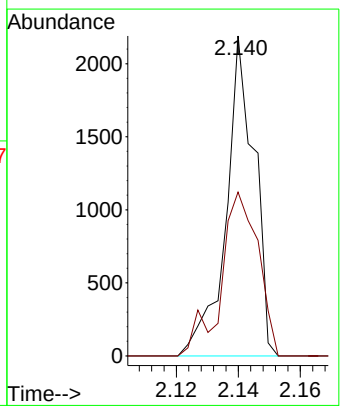


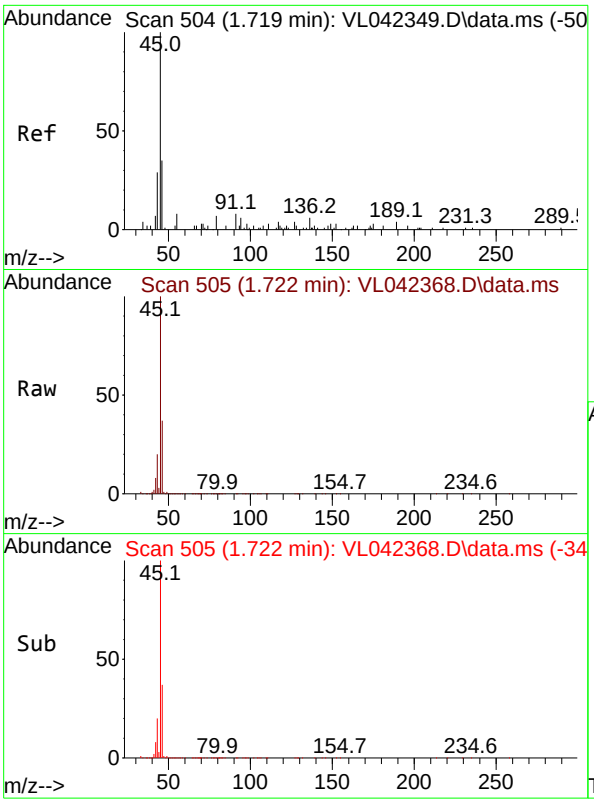


#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.085 ppbv
RT: 2.140 min Scan# 634
Delta R.T. 0.004 min
Lab File: VL042368.D
Acq: 17 Apr 2025 21:12

Tgt Ion:101 Resp: 1393

Ion	Ratio	Lower	Upper
101	100		
151	67.3	57.0	85.6



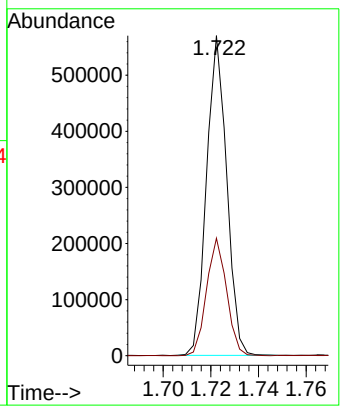


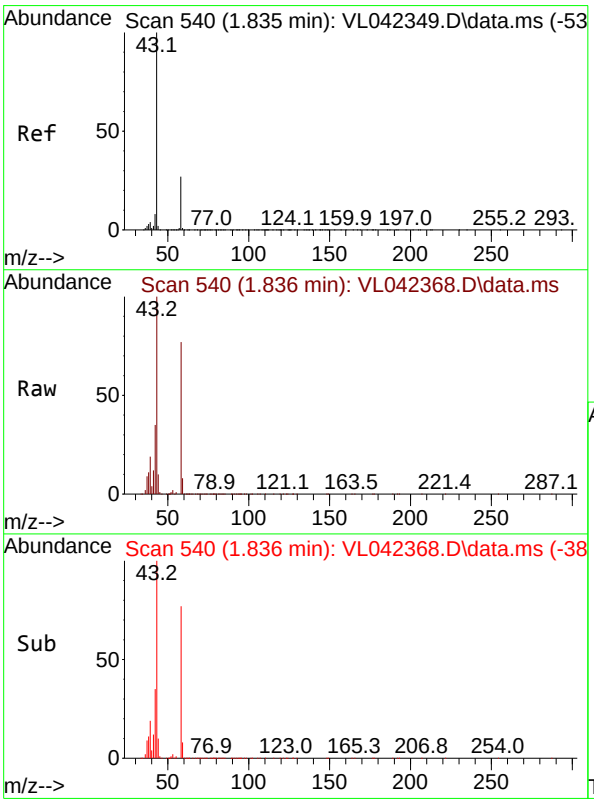
#13
Ethanol
Concen: 230.163 ppbv
RT: 1.722 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042368.D
Acq: 17 Apr 2025 21:12

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-2-03312025

Tgt Ion: 45 Resp: 334088

Ion	Ratio	Lower	Upper
45	100		
46	36.9	21.9	87.7

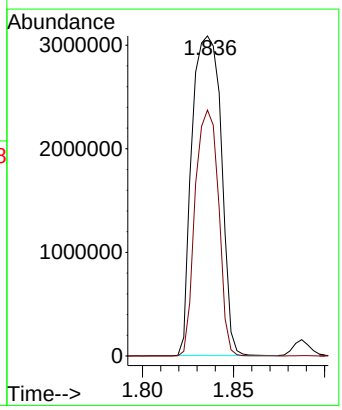


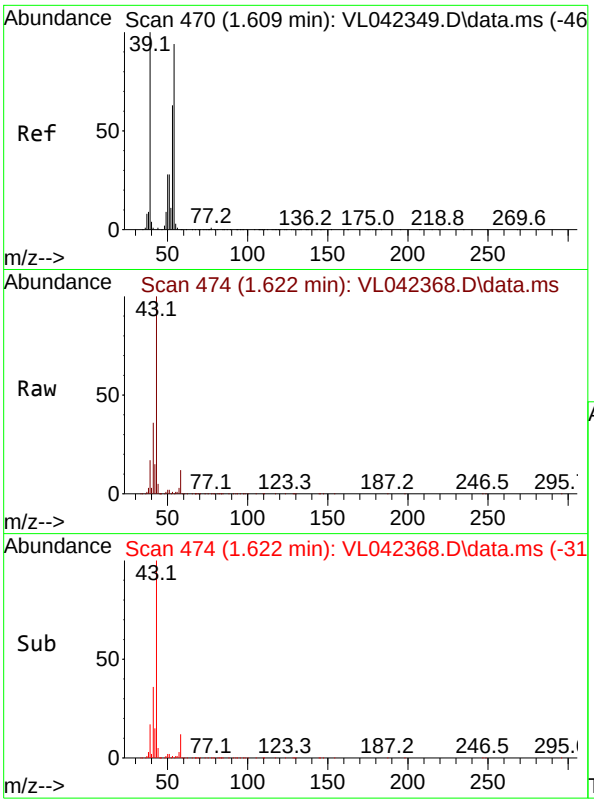


#15
Acetone
Concen: 176.335 ppbv
RT: 1.836 min Scan# 540
Delta R.T. 0.000 min
Lab File: VL042368.D
Acq: 17 Apr 2025 21:12

Tgt Ion: 43 Resp: 3440620

Ion	Ratio	Lower	Upper
43	100		
58	61.6	22.4	33.6#



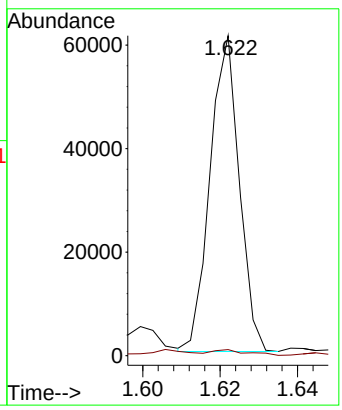


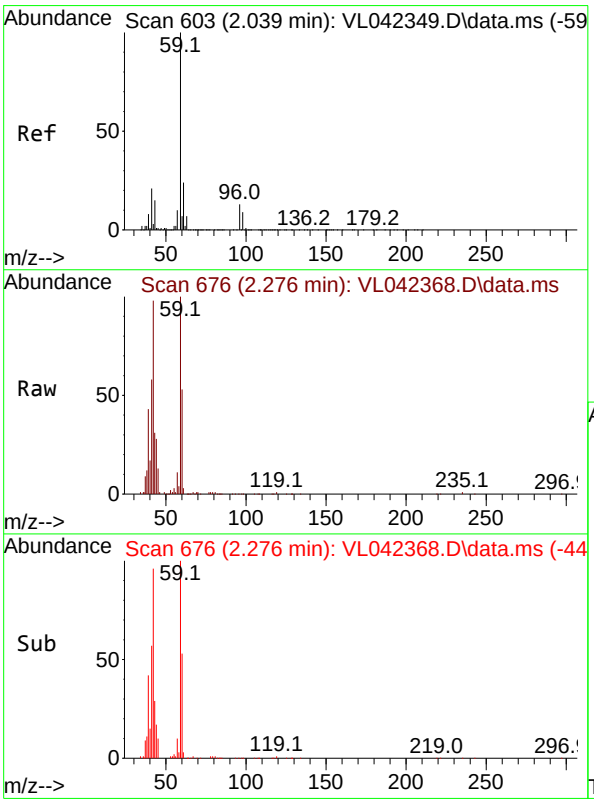
#16
1,3-Butadiene
Concen: 3.428 ppbv
RT: 1.622 min Scan# 4
Delta R.T. 0.013 min
Lab File: VL042368.D
Acq: 17 Apr 2025 21:12

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-2-03312025

Tgt Ion: 39 Resp: 31987

Ion	Ratio	Lower	Upper
39	100		
54	7.2	64.9	97.3#

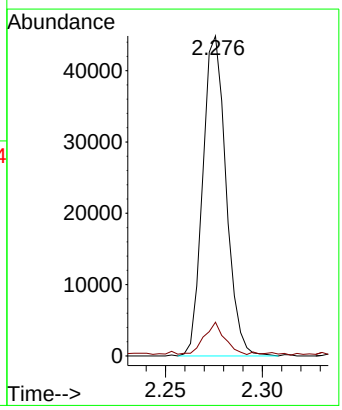


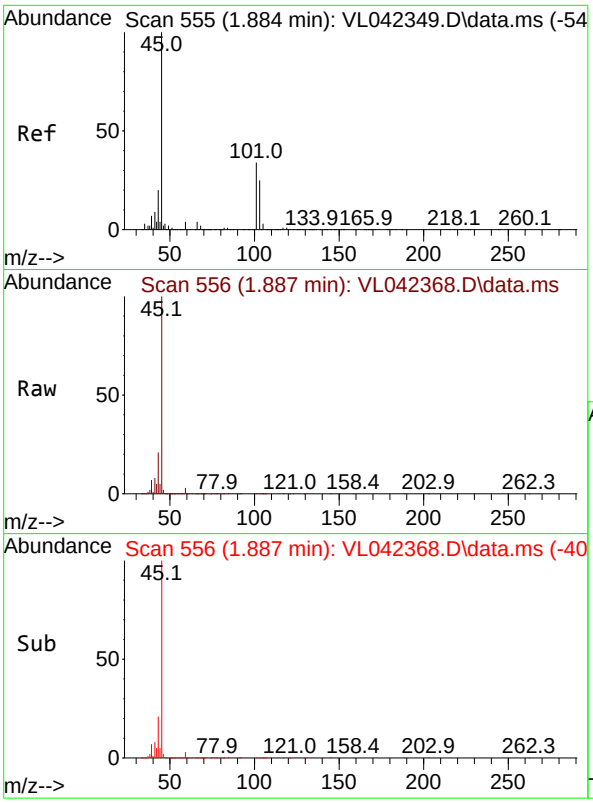


#17
tert-Butyl alcohol
Concen: 1.553 ppbv
RT: 2.276 min Scan# 676
Delta R.T. 0.237 min
Lab File: VL042368.D
Acq: 17 Apr 2025 21:12

Tgt Ion: 59 Resp: 37546

Ion	Ratio	Lower	Upper
59	100		
57	11.2	8.7	13.1



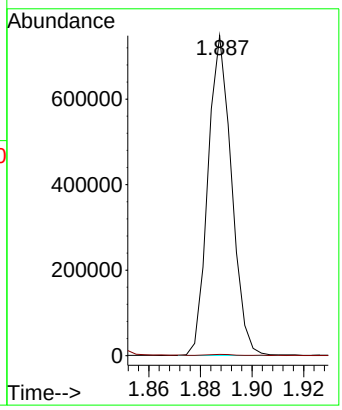


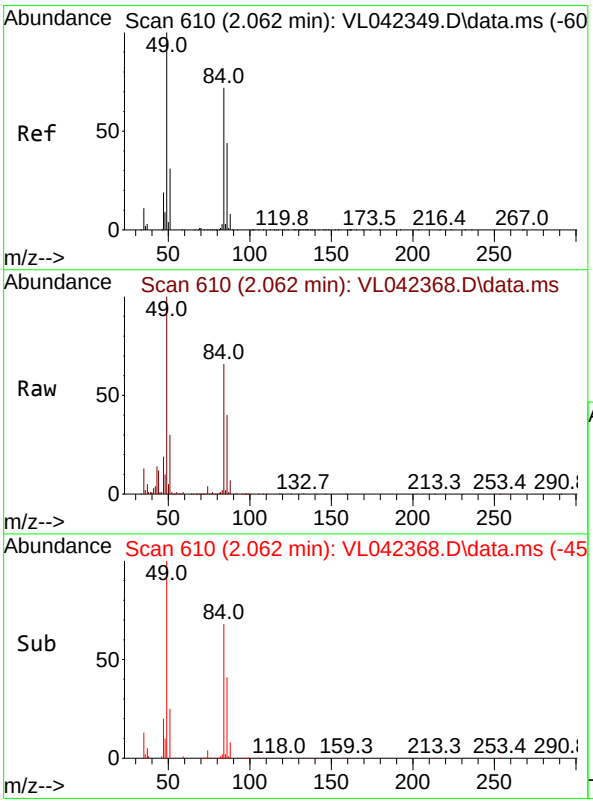
#19
Isopropyl Alcohol
Concen: 43.709 ppbv
RT: 1.887 min Scan# 5
Delta R.T. 0.004 min
Lab File: VL042368.D
Acq: 17 Apr 2025 21:12

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-2-03312025

Tgt Ion: 45 Resp: 473769

Ion	Ratio	Lower	Upper
45	100		
58	0.0	34.5	51.7#

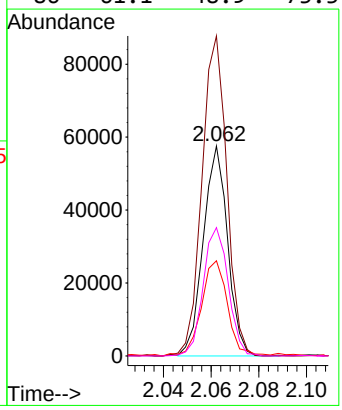


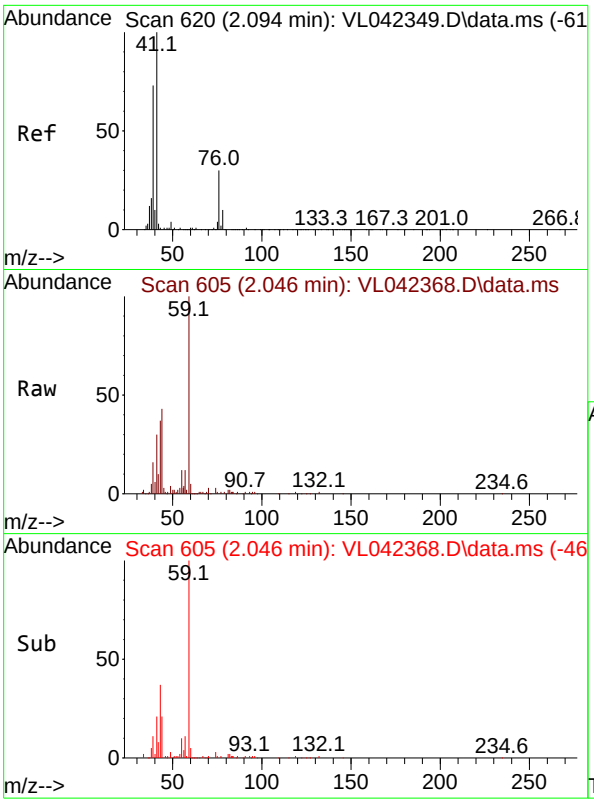


#20
Methylene Chloride
Concen: 5.357 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.000 min
Lab File: VL042368.D
Acq: 17 Apr 2025 21:12

Tgt Ion: 84 Resp: 40932

Ion	Ratio	Lower	Upper
84	100		
49	151.7	111.6	167.4
51	44.5	35.1	52.7
86	61.1	48.9	73.3



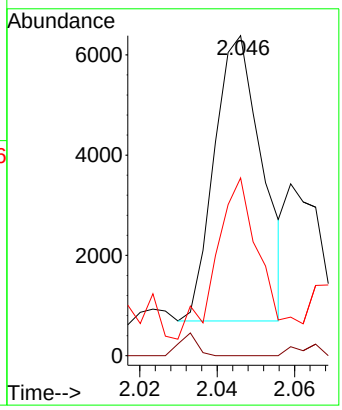


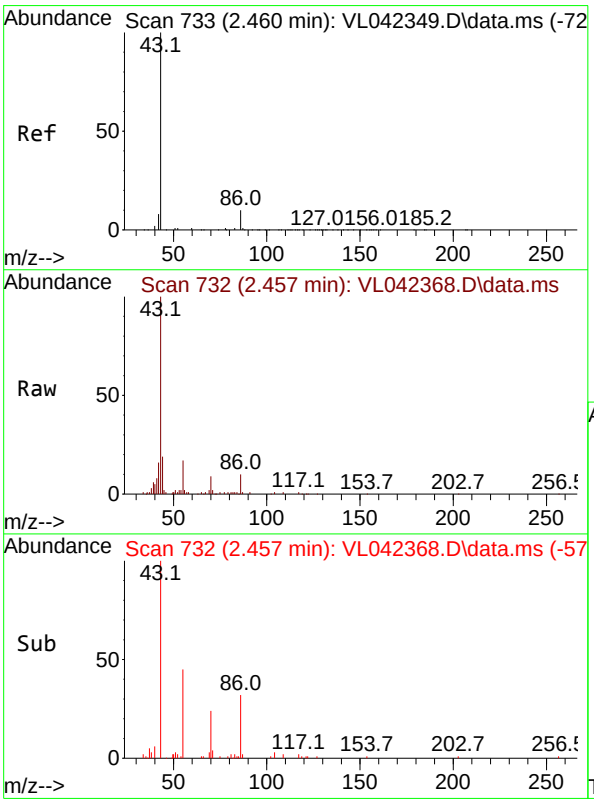
#21
Allyl Chloride
Concen: 0.362 ppbv
RT: 2.046 min Scan# 6
Delta R.T. -0.048 min
Lab File: VL042368.D
Acq: 17 Apr 2025 21:12

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-2-03312025

Tgt Ion: 41 Resp: 4879

Ion	Ratio	Lower	Upper
41	100		
76	3.0	24.8	37.2#
39	0.0	60.6	90.8#

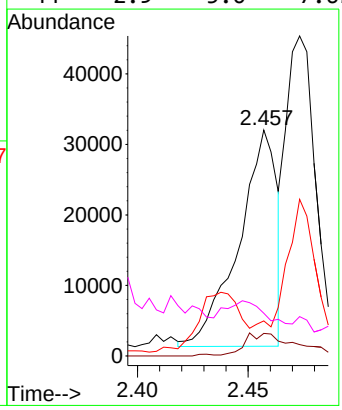


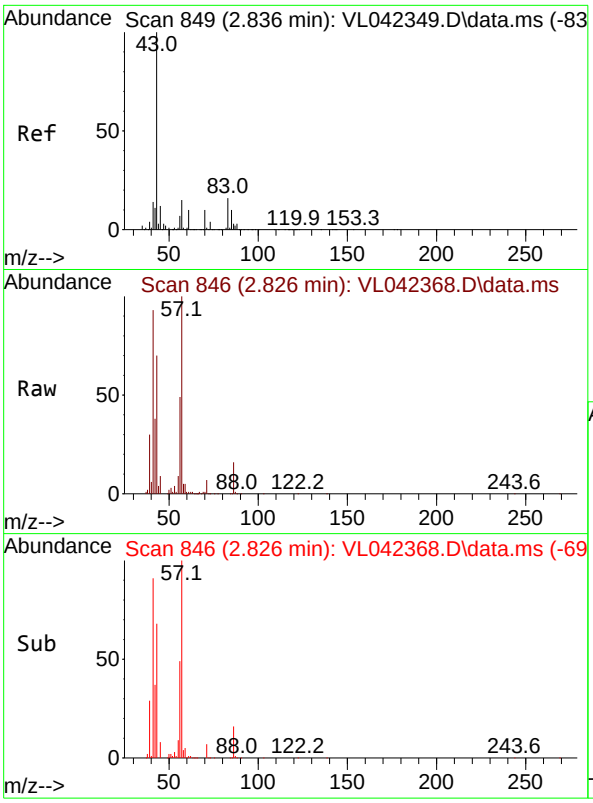


#23
Vinyl Acetate
Concen: 4.647 ppbv
RT: 2.457 min Scan# 732
Delta R.T. -0.003 min
Lab File: VL042368.D
Acq: 17 Apr 2025 21:12

Tgt Ion: 43 Resp: 36701

Ion	Ratio	Lower	Upper
43	100		
86	10.6	6.5	9.7#
42	13.2	7.8	11.8#
44	2.9	5.0	7.6#



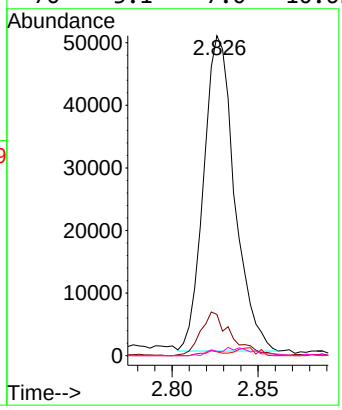


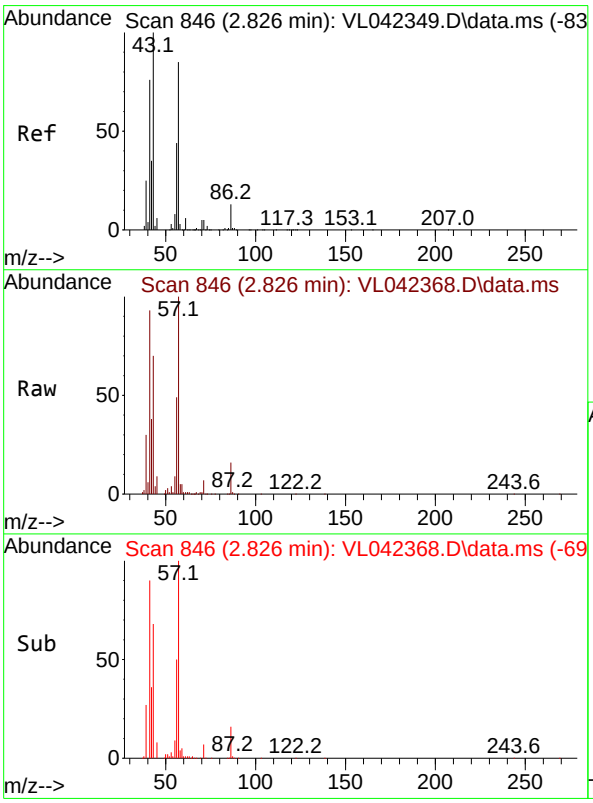
#25
Ethyl Acetate
Concen: 1.310 ppbv
RT: 2.826 min Scan# 84
Delta R.T. -0.009 min
Lab File: VL042368.D
Acq: 17 Apr 2025 21:12

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-2-03312025

Tgt Ion: 43 Resp: 63042

Ion	Ratio	Lower	Upper
43	100		
45	13.9	8.3	12.5#
61	2.7	7.3	10.9#
70	3.1	7.0	10.6#

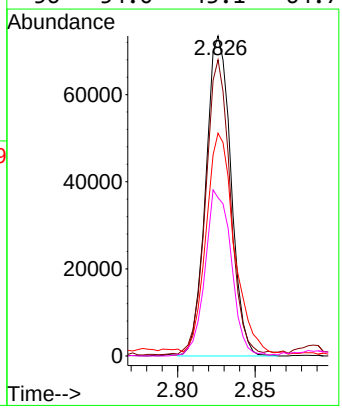


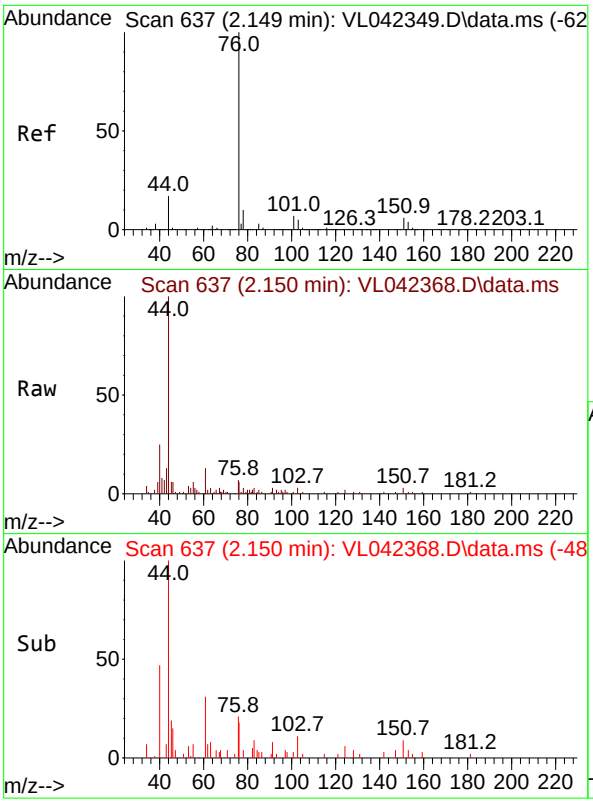


#26
Hexane
Concen: 4.261 ppbv
RT: 2.826 min Scan# 846
Delta R.T. 0.000 min
Lab File: VL042368.D
Acq: 17 Apr 2025 21:12

Tgt Ion: 57 Resp: 82957

Ion	Ratio	Lower	Upper
57	100		
41	90.3	77.9	116.9
43	80.7	208.4	312.6#
56	54.0	43.1	64.7



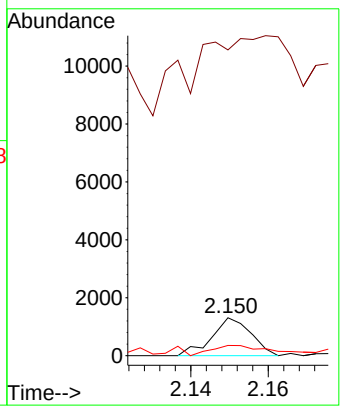


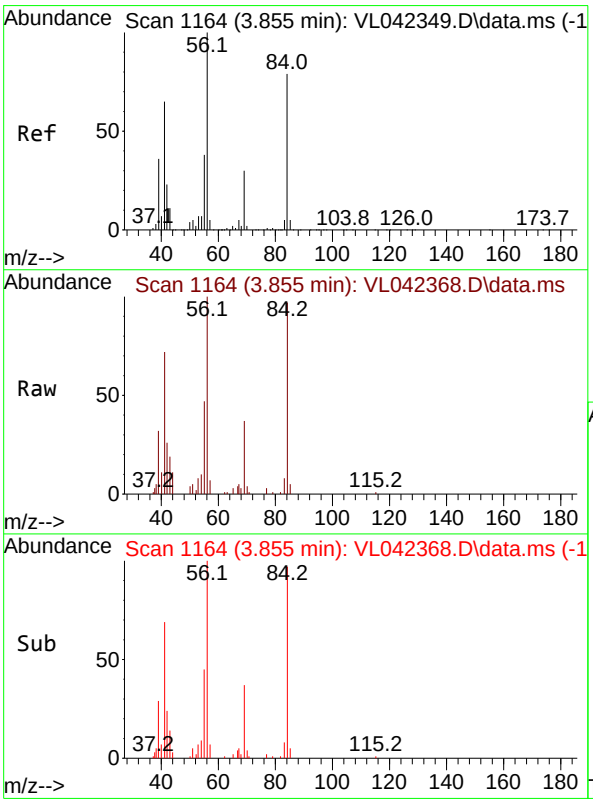
#27
Carbon Disulfide
Concen: 0.044 ppbv
RT: 2.150 min Scan# 6
Delta R.T. 0.000 min
Lab File: VL042368.D
Acq: 17 Apr 2025 21:12

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-2-03312025

Tgt Ion: 76 Resp: 919

Ion	Ratio	Lower	Upper
76	100		
44	0.0	15.5	23.3#
78	43.5	9.3	13.9#

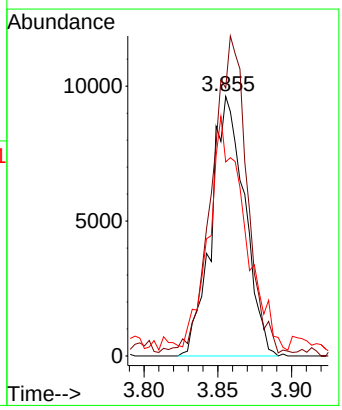


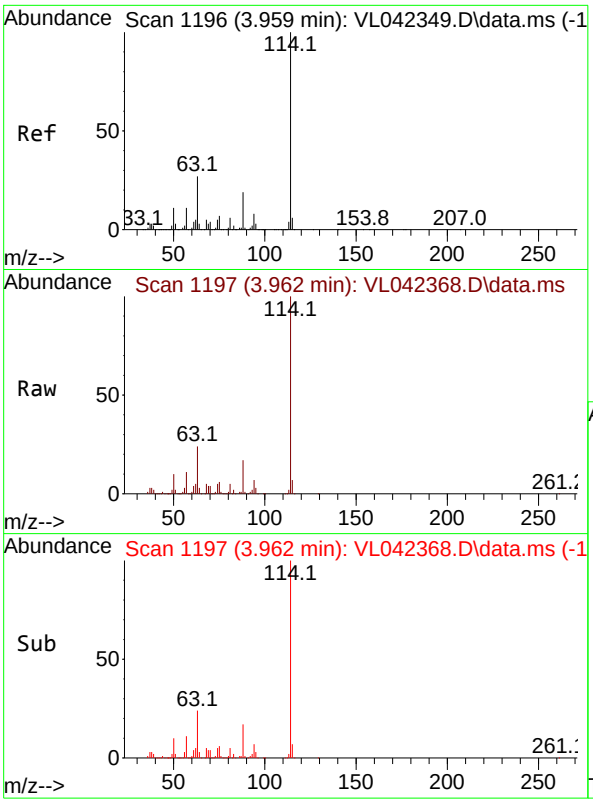


#30
Cyclohexane
Concen: 0.967 ppbv
RT: 3.855 min Scan# 1164
Delta R.T. 0.000 min
Lab File: VL042368.D
Acq: 17 Apr 2025 21:12

Tgt Ion: 84 Resp: 15212

Ion	Ratio	Lower	Upper
84	100		
56	125.5	101.0	151.4
41	103.5	67.4	101.0#



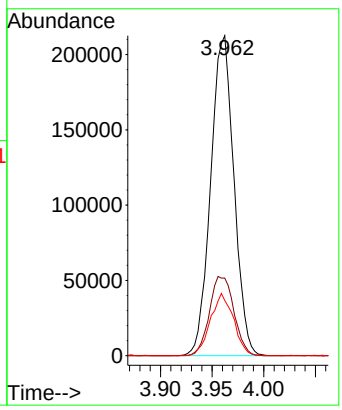


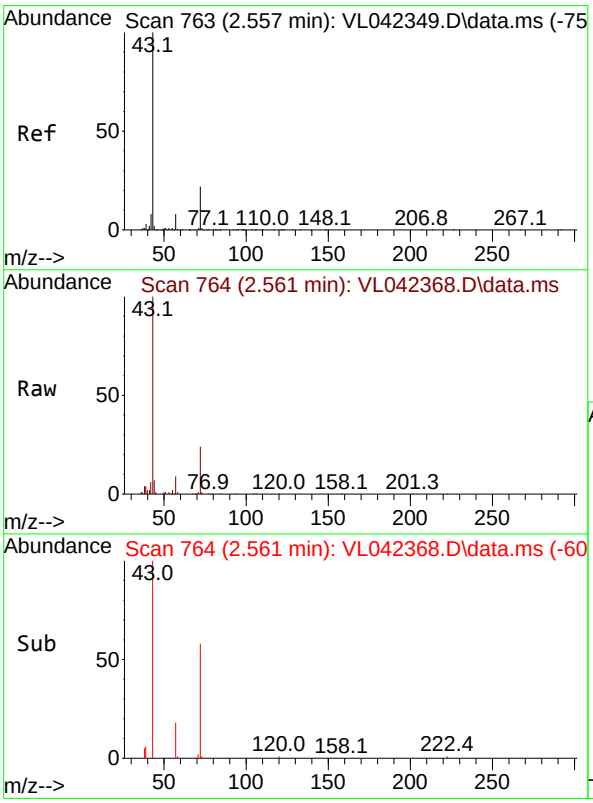
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.962 min Scan# 11
Delta R.T. 0.004 min
Lab File: VL042368.D
Acq: 17 Apr 2025 21:12

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-2-03312025

Tgt Ion:114 Resp: 333003

Ion	Ratio	Lower	Upper
114	100		
63	26.1	21.8	32.6
88	19.3	15.5	23.3

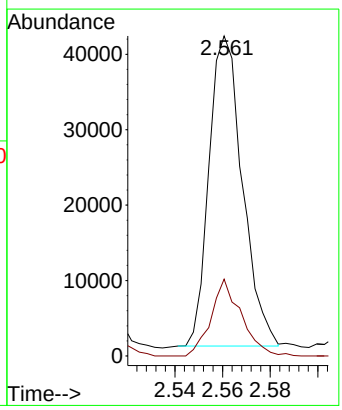


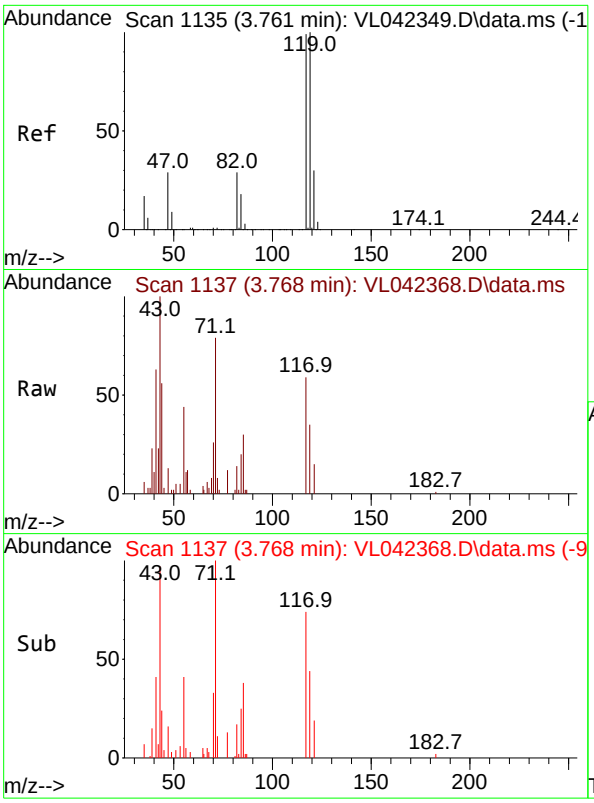


#34
2-Butanone
Concen: 1.520 ppbv
RT: 2.561 min Scan# 764
Delta R.T. 0.004 min
Lab File: VL042368.D
Acq: 17 Apr 2025 21:12

Tgt Ion: 43 Resp: 40042

Ion	Ratio	Lower	Upper
43	100		
72	22.5	18.2	27.2



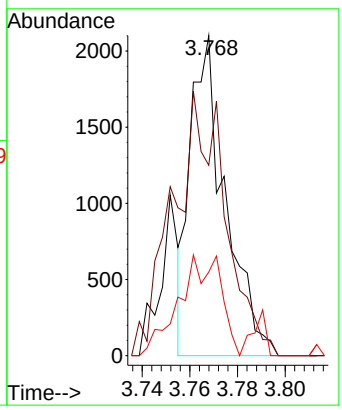


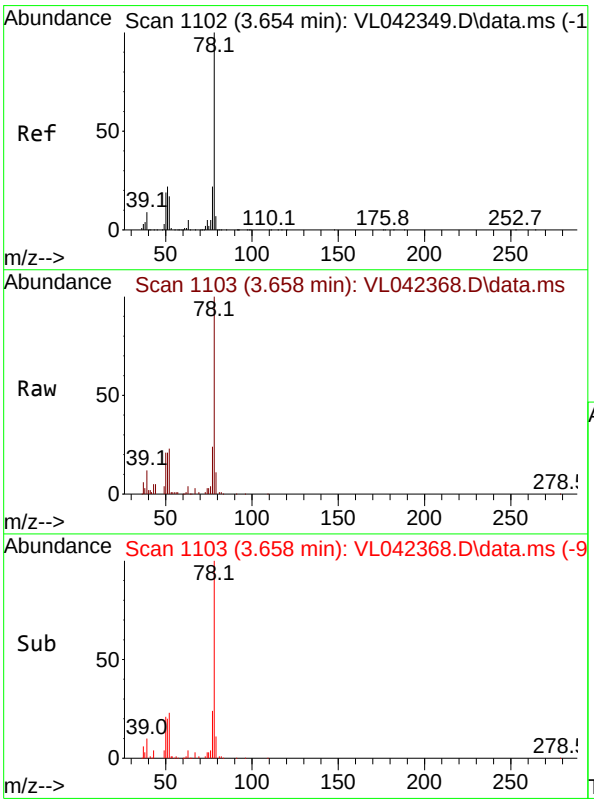
#35
Carbon Tetrachloride
Concen: 0.071 ppbv
RT: 3.768 min Scan# 11
Delta R.T. 0.007 min
Lab File: VL042368.D
Acq: 17 Apr 2025 21:12

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-2-03312025

Tgt Ion:117 Resp: 2143

Ion	Ratio	Lower	Upper
117	100		
119	59.5	80.5	120.7#
121	26.1	24.2	36.2

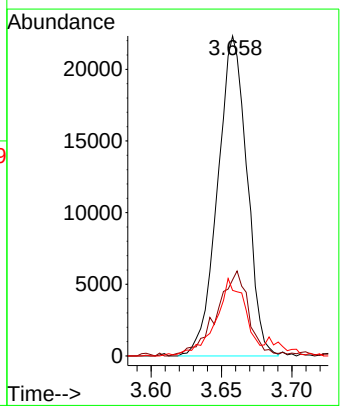


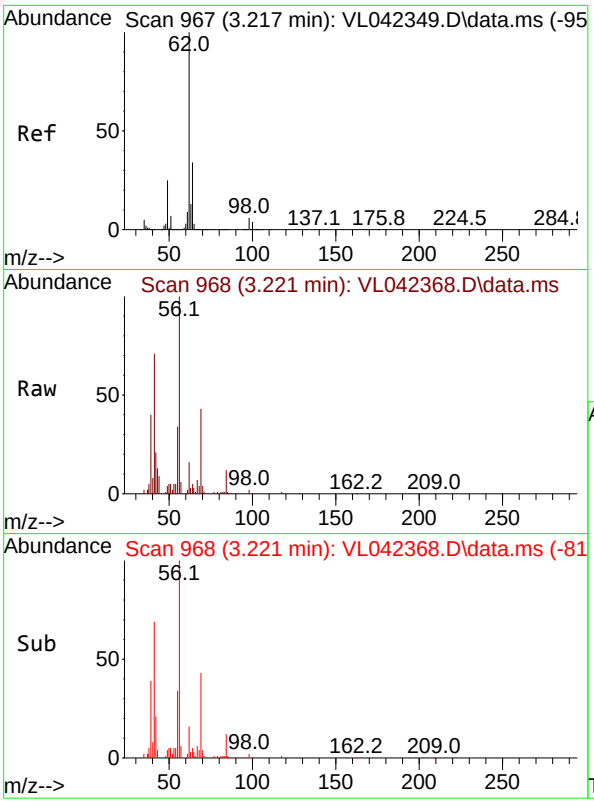


#36
Benzene
Concen: 0.901 ppbv
RT: 3.658 min Scan# 1103
Delta R.T. 0.004 min
Lab File: VL042368.D
Acq: 17 Apr 2025 21:12

Tgt Ion: 78 Resp: 32372

Ion	Ratio	Lower	Upper
78	100		
77	23.0	17.4	26.0
50	19.9	15.5	23.3



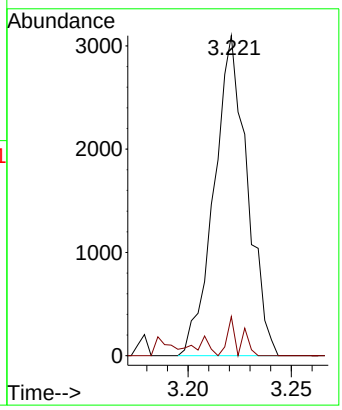


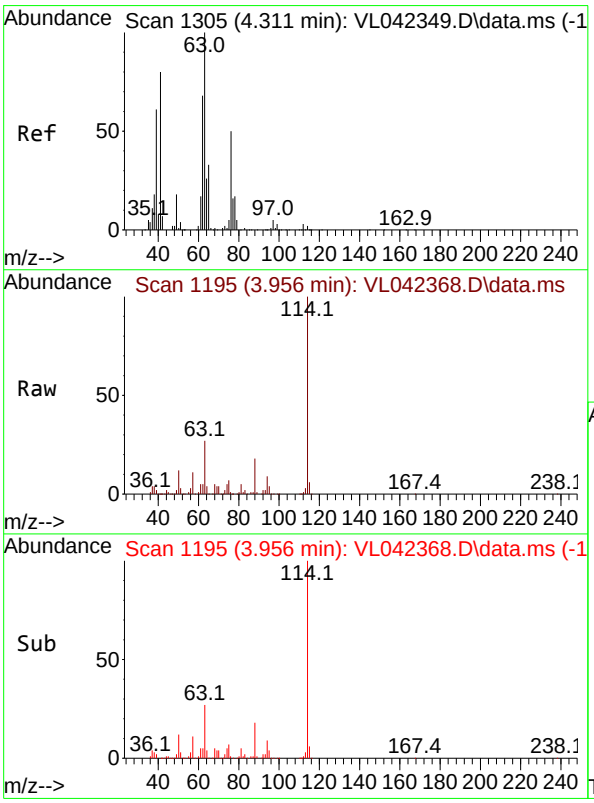
#37
1,2-Dichloroethane
Concen: 0.161 ppbv
RT: 3.221 min Scan# 9
Delta R.T. 0.004 min
Lab File: VL042368.D
Acq: 17 Apr 2025 21:12

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-2-03312025

Tgt Ion: 62 Resp: 3461

Ion	Ratio	Lower	Upper
62	100		
98	7.9	5.1	7.7#

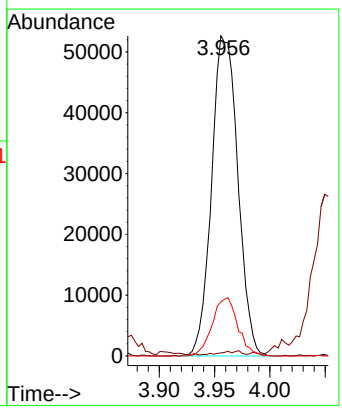


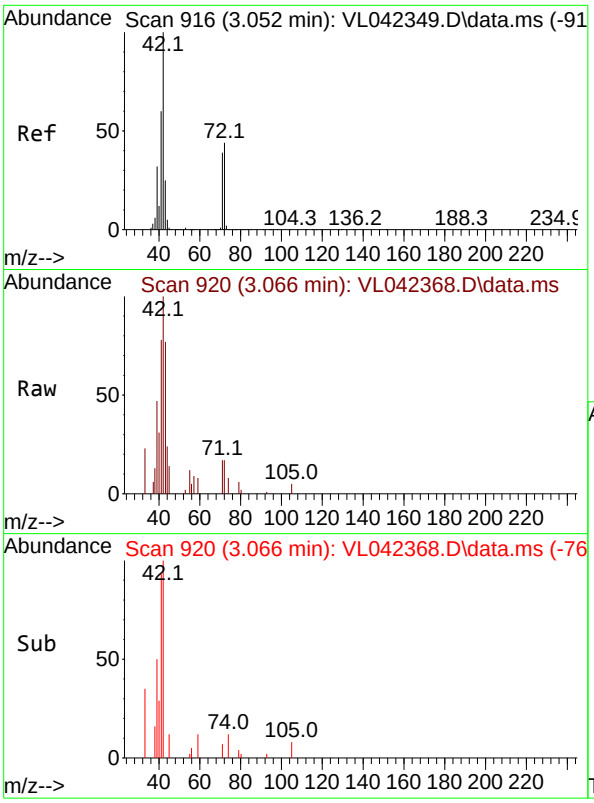


#39
1,2-Dichloropropane
Concen: 6.491 ppbv
RT: 3.956 min Scan# 1195
Delta R.T. -0.356 min
Lab File: VL042368.D
Acq: 17 Apr 2025 21:12

Tgt Ion: 63 Resp: 86880

Ion	Ratio	Lower	Upper
63	100		
41	0.1	64.2	96.2#
62	16.9	54.3	81.5#



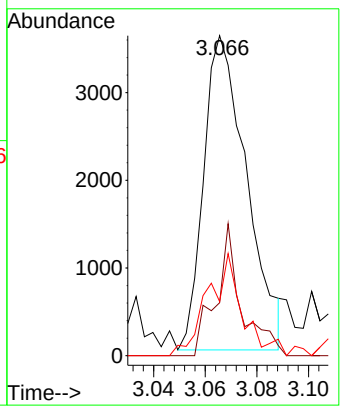


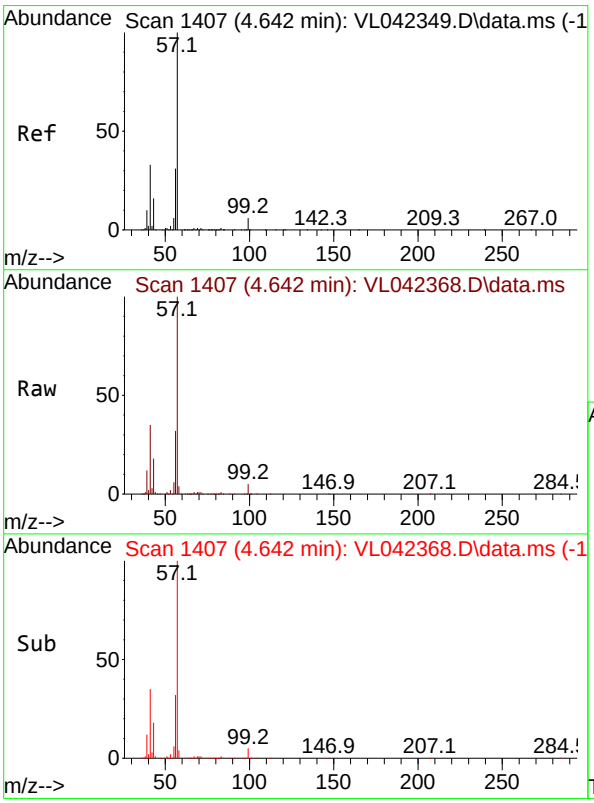
#41
Tetrahydrofuran
Concen: 0.269 ppbv
RT: 3.066 min Scan# 9
Delta R.T. 0.013 min
Lab File: VL042368.D
Acq: 17 Apr 2025 21:12

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-2-03312025

Tgt Ion: 42 Resp: 4138

Ion	Ratio	Lower	Upper
42	100		
72	24.8	32.3	48.5#
71	29.5	31.4	47.2#

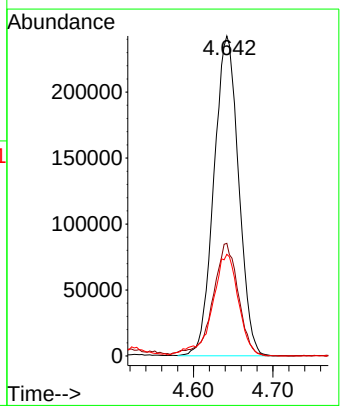


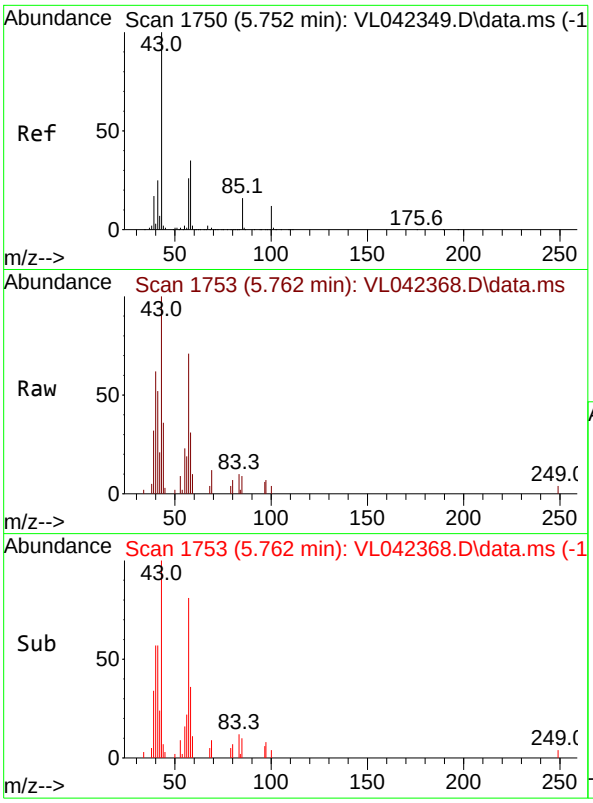


#44
2,2,4-Trimethylpentane
Concen: 8.414 ppbv
RT: 4.642 min Scan# 1407
Delta R.T. 0.000 min
Lab File: VL042368.D
Acq: 17 Apr 2025 21:12

Tgt Ion: 57 Resp: 521960

Ion	Ratio	Lower	Upper
57	100		
41	36.7	27.2	40.8
56	34.1	25.7	38.5



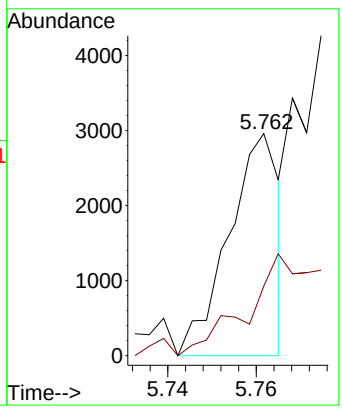


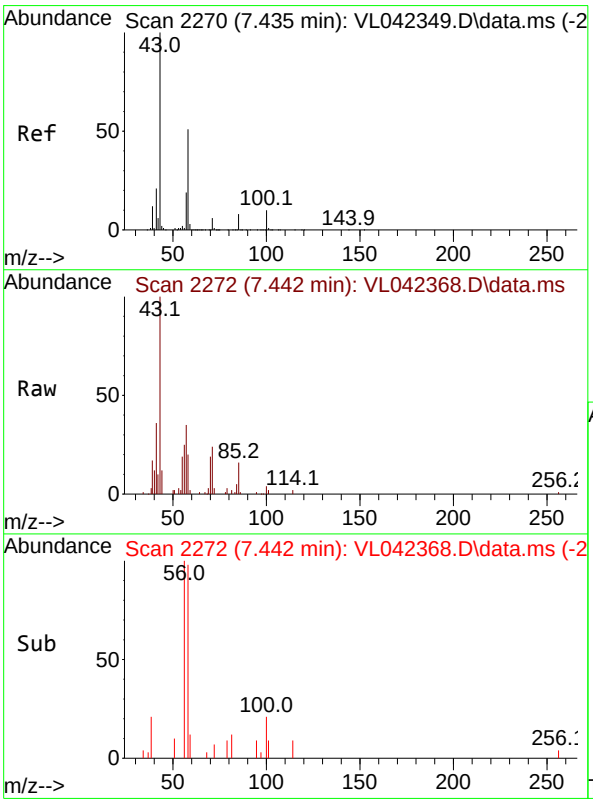
#50
4-Methyl-2-Pentanone
Concen: 0.054 ppbv
RT: 5.762 min Scan# 1
Delta R.T. 0.010 min
Lab File: VL042368.D
Acq: 17 Apr 2025 21:12

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-2-03312025

Tgt Ion: 43 Resp: 2346

Ion	Ratio	Lower	Upper
43	100		
58	147.0	28.6	43.0#

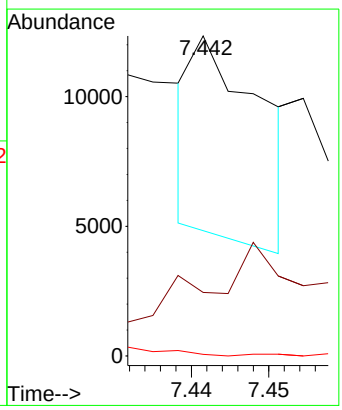


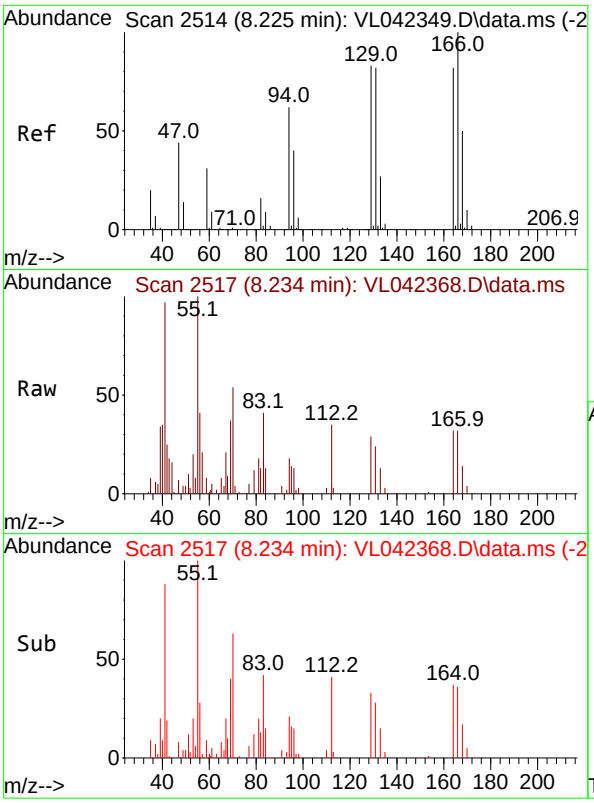


#51
2-Hexanone
Concen: 0.119 ppbv
RT: 7.442 min Scan# 2272
Delta R.T. 0.007 min
Lab File: VL042368.D
Acq: 17 Apr 2025 21:12

Tgt Ion: 43 Resp: 4683

Ion	Ratio	Lower	Upper
43	100		
58	0.0	40.2	60.4#
98	0.0	0.1	0.1#



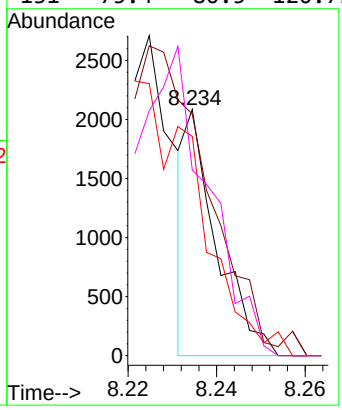


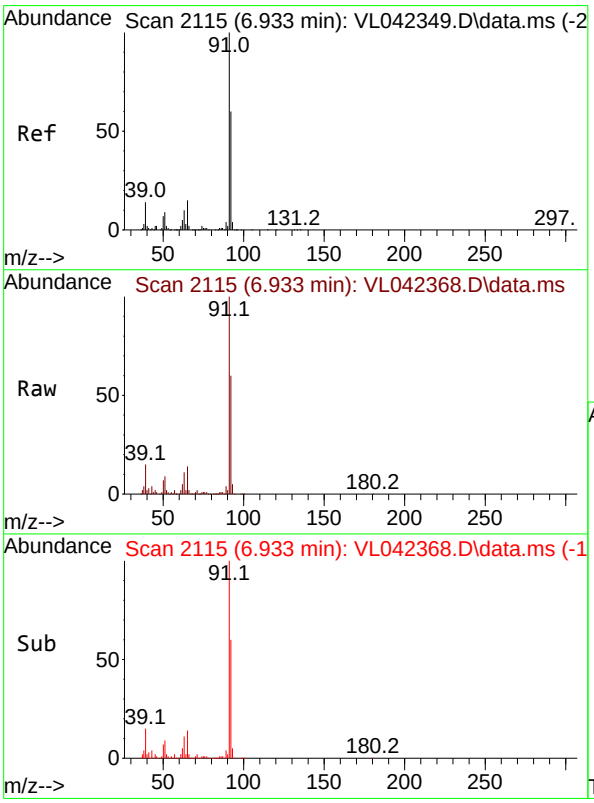
#52
Tetrachloroethene
Concen: 0.072 ppbv
RT: 8.234 min Scan# 2
Delta R.T. 0.010 min
Lab File: VL042368.D
Acq: 17 Apr 2025 21:12

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-2-03312025

Tgt Ion:164 Resp: 1006

Ion	Ratio	Lower	Upper
164	100		
166	94.4	98.2	147.2#
129	79.3	81.8	122.8#
131	75.4	80.5	120.7#

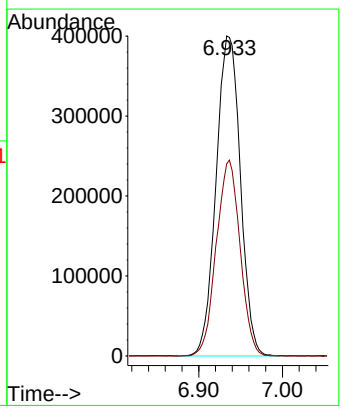


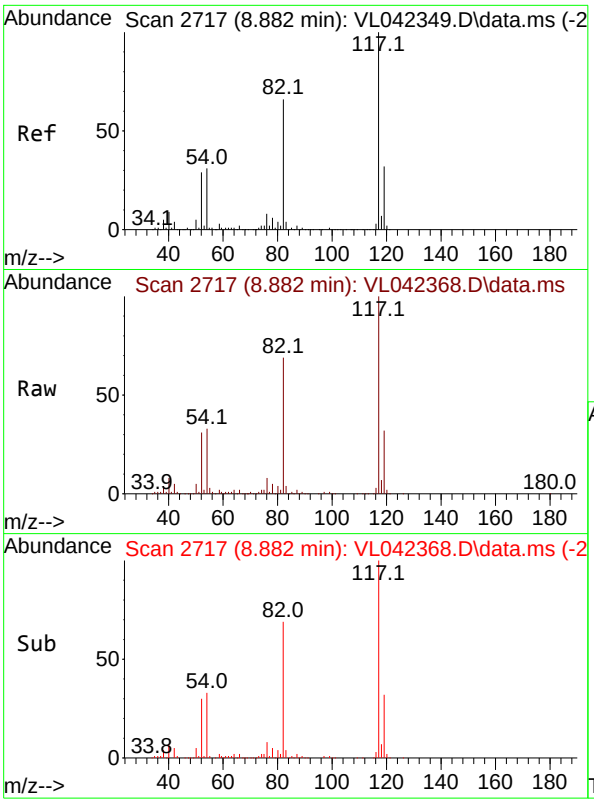


#53
Toluene
Concen: 18.711 ppbv
RT: 6.933 min Scan# 2115
Delta R.T. 0.000 min
Lab File: VL042368.D
Acq: 17 Apr 2025 21:12

Tgt Ion: 91 Resp: 806485

Ion	Ratio	Lower	Upper
91	100		
92	59.9	48.2	72.4



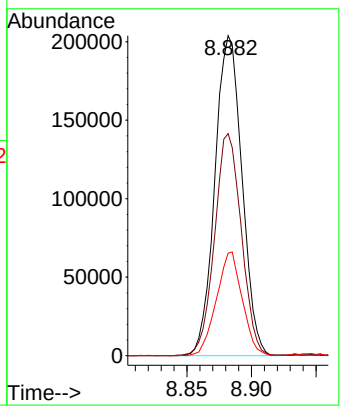


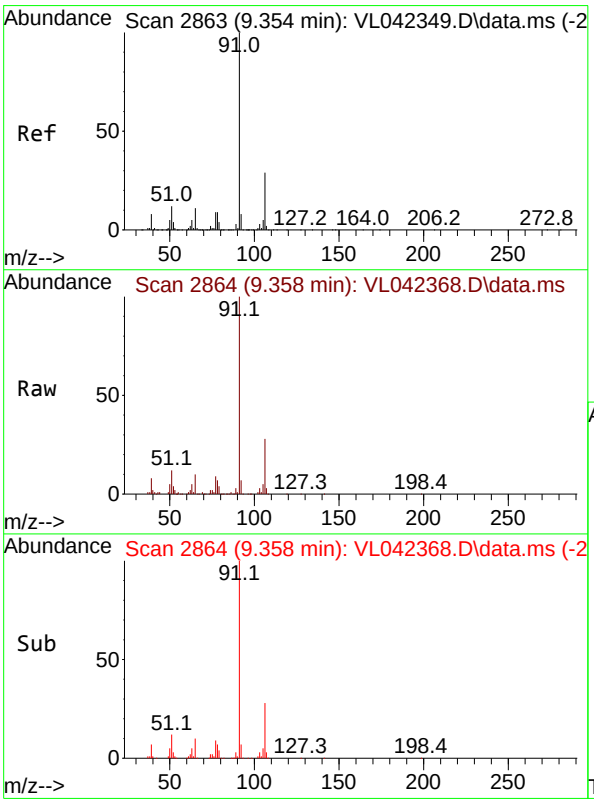
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.882 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042368.D
Acq: 17 Apr 2025 21:12

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-2-03312025

Tgt Ion:117 Resp: 297493

Ion	Ratio	Lower	Upper
117	100		
82	68.6	57.8	86.6
119	30.9	25.2	37.8

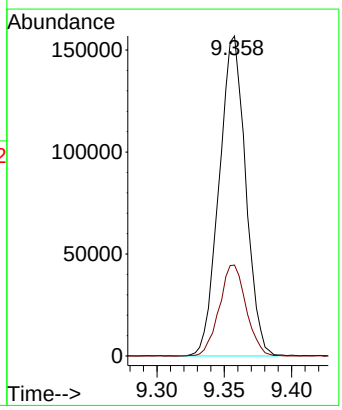


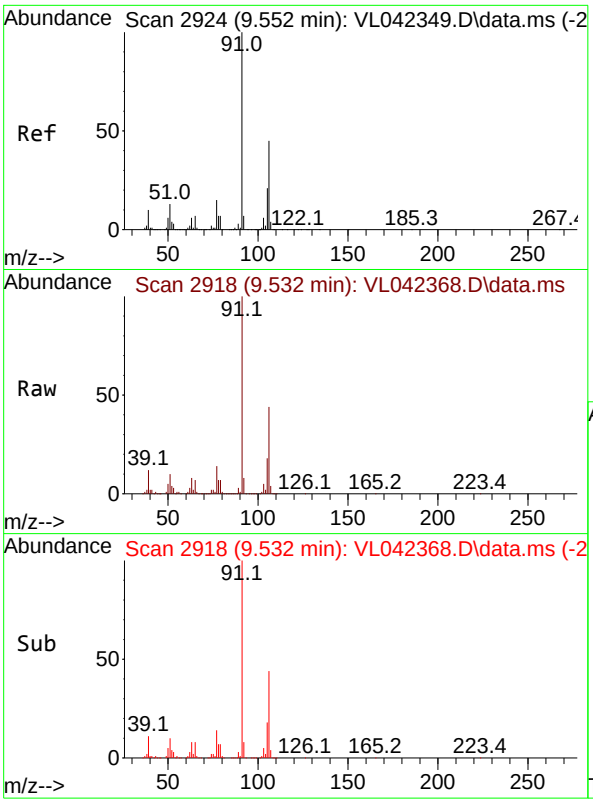


#58
Ethyl Benzene
Concen: 3.643 ppbv
RT: 9.358 min Scan# 2864
Delta R.T. 0.004 min
Lab File: VL042368.D
Acq: 17 Apr 2025 21:12

Tgt Ion: 91 Resp: 214751

Ion	Ratio	Lower	Upper
91	100		
106	28.4	23.0	34.4



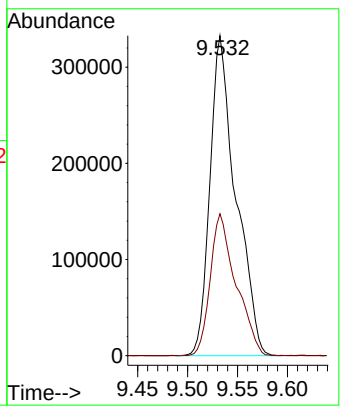


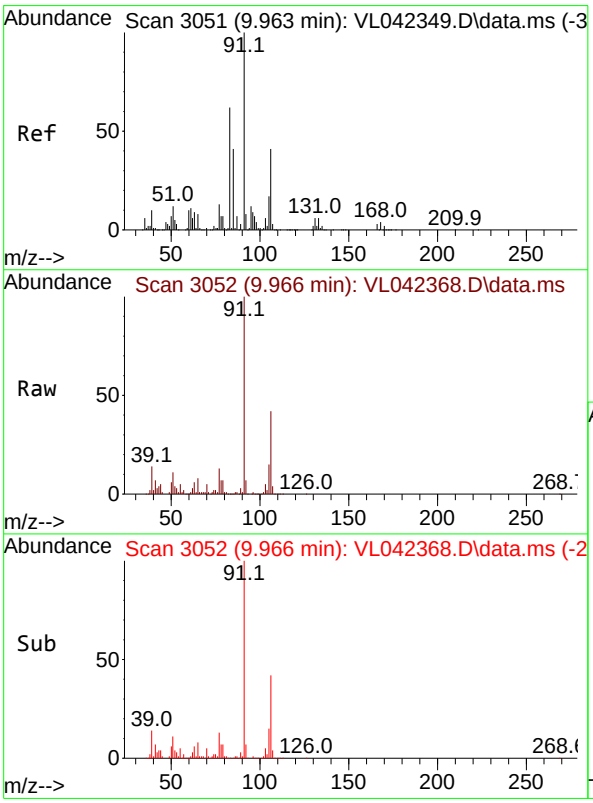
#59
m/p-Xylene
Concen: 12.631 ppbv
RT: 9.532 min Scan# 2
Delta R.T. -0.019 min
Lab File: VL042368.D
Acq: 17 Apr 2025 21:12

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-2-03312025

Tgt Ion: 91 Resp: 599749

Ion	Ratio	Lower	Upper
91	100		
106	44.1	35.4	53.2

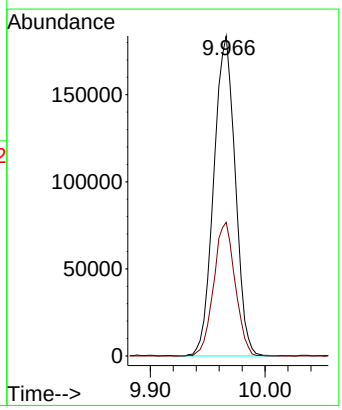


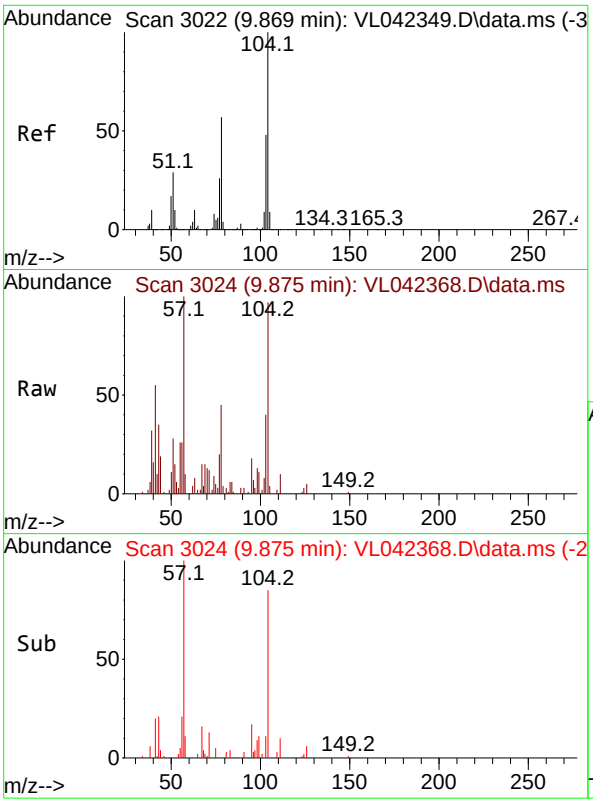


#60
o-Xylene
Concen: 4.992 ppbv
RT: 9.966 min Scan# 3052
Delta R.T. 0.004 min
Lab File: VL042368.D
Acq: 17 Apr 2025 21:12

Tgt Ion: 91 Resp: 238681

Ion	Ratio	Lower	Upper
91	100		
106	41.8	21.1	63.4



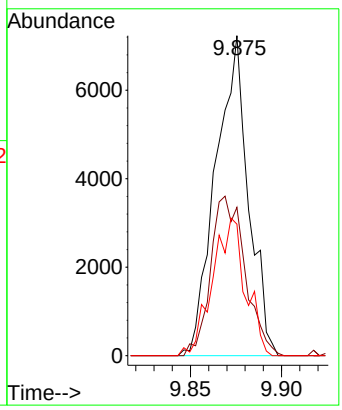


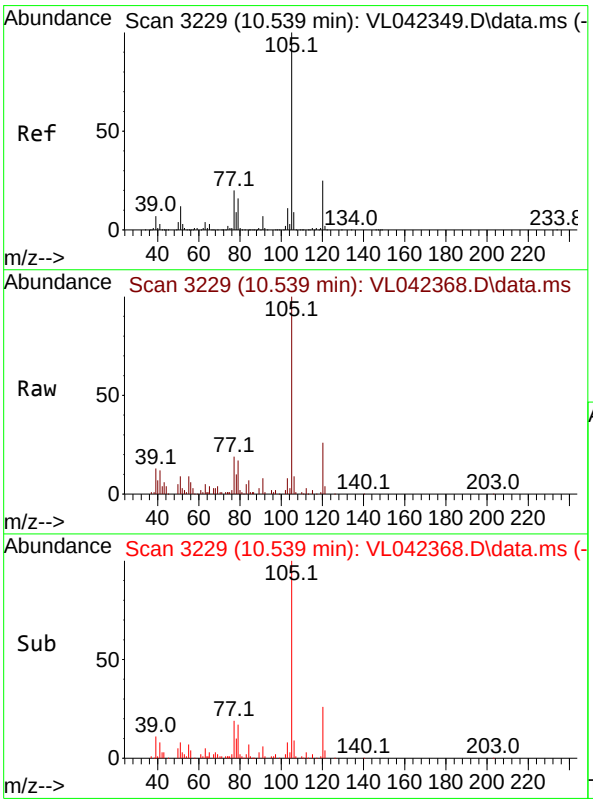
#61
Styrene
Concen: 0.395 ppbv
RT: 9.875 min Scan# 3
Delta R.T. 0.007 min
Lab File: VL042368.D
Acq: 17 Apr 2025 21:12

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-2-03312025

Tgt Ion:104 Resp: 9022

Ion	Ratio	Lower	Upper
104	100		
78	52.5	44.6	66.8
103	43.6	37.4	56.0

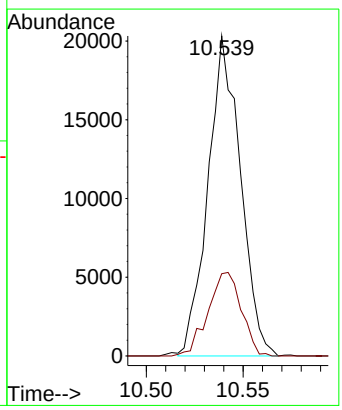


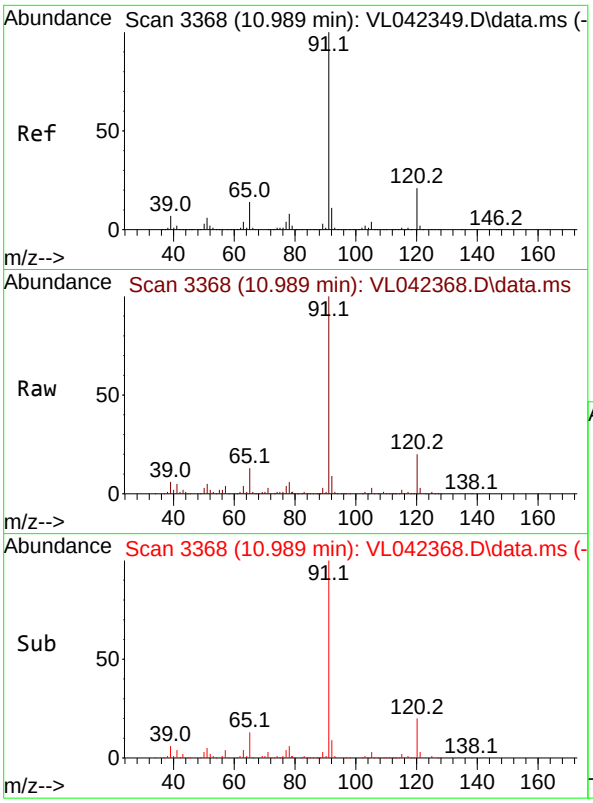


#62
Isopropylbenzene
Concen: 0.337 ppbv
RT: 10.539 min Scan# 3229
Delta R.T. 0.000 min
Lab File: VL042368.D
Acq: 17 Apr 2025 21:12

Tgt Ion:105 Resp: 23690

Ion	Ratio	Lower	Upper
105	100		
120	26.8	19.8	29.8



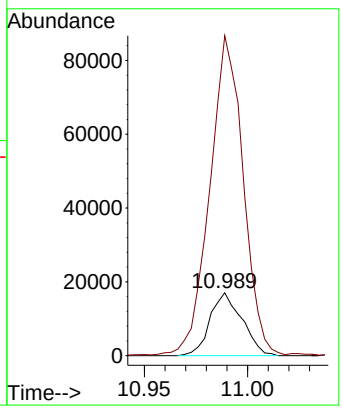


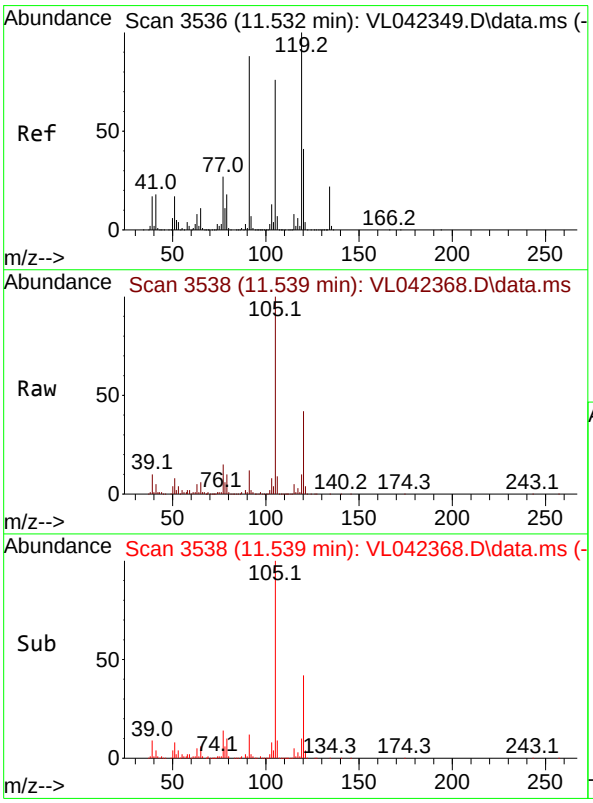
#64
n-propylbenzene
Concen: 1.044 ppbv
RT: 10.989 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042368.D
Acq: 17 Apr 2025 21:12

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-2-03312025

Tgt Ion:120 Resp: 18420

Ion	Ratio	Lower	Upper
120	100		
91	530.0	392.4	588.6

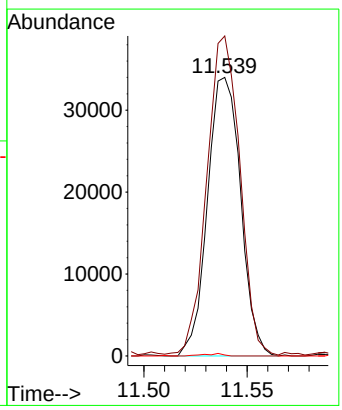


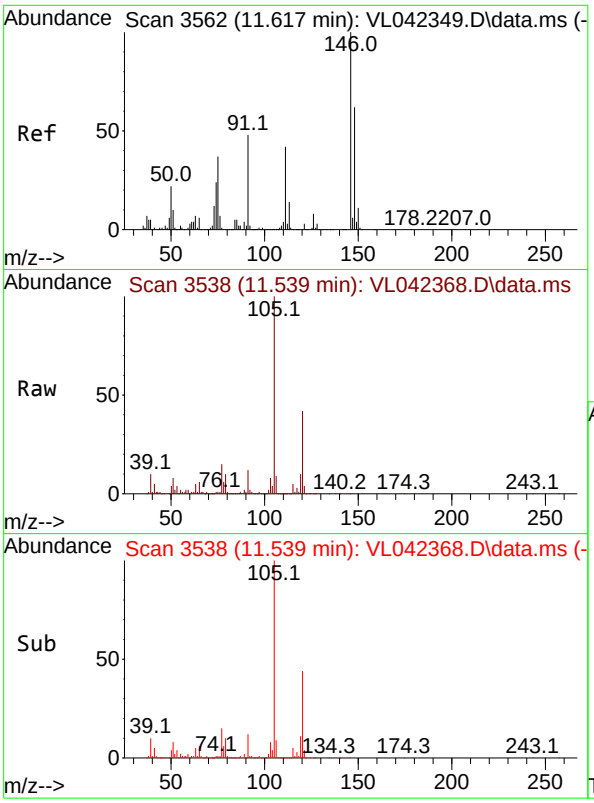


#65
tert-Butylbenzene
Concen: 0.588 ppbv
RT: 11.539 min Scan# 3538
Delta R.T. 0.007 min
Lab File: VL042368.D
Acq: 17 Apr 2025 21:12

Tgt Ion:119 Resp: 37957

Ion	Ratio	Lower	Upper
119	100		
91	116.2	74.6	111.8#
134	0.5	18.8	28.2#



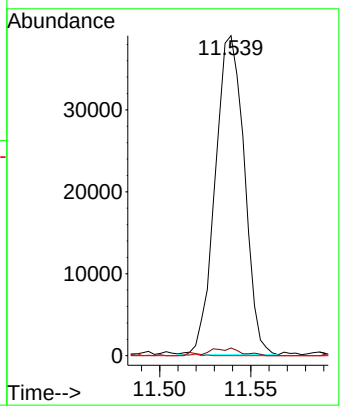


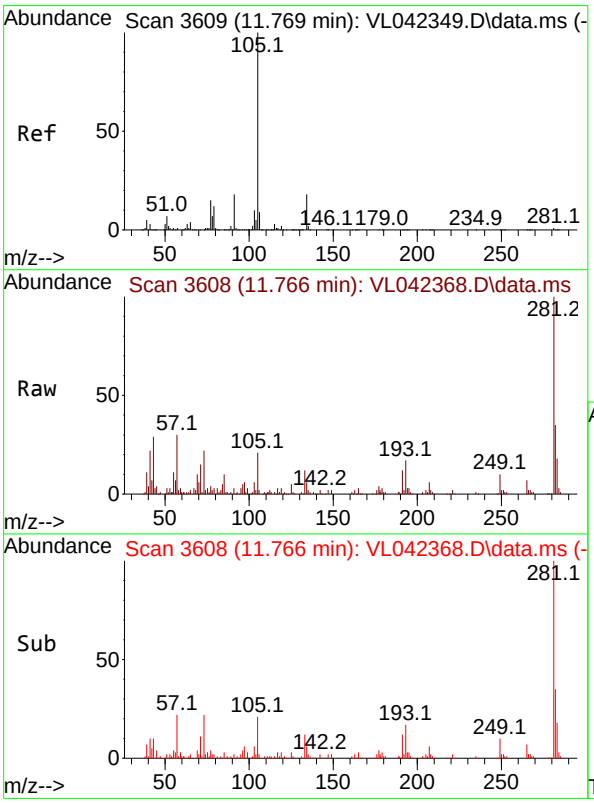
#66
Benzyl Chloride
Concen: 6.096 ppbv
RT: 11.539 min Scan# 3
Delta R.T. -0.077 min
Lab File: VL042368.D
Acq: 17 Apr 2025 21:12

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-2-03312025

Tgt Ion: 91 Resp: 43222

Ion	Ratio	Lower	Upper
91	100		
126	2.7	11.8	17.6#
128	0.0	4.5	6.7#

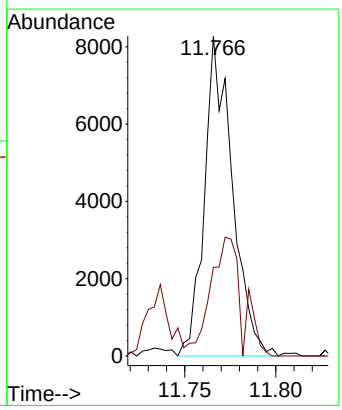


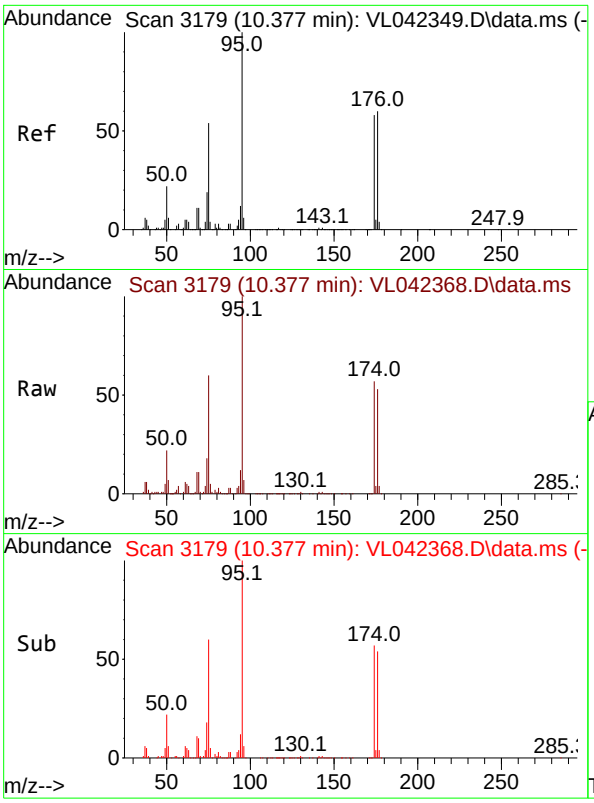


#67
sec-Butylbenzene
Concen: 0.098 ppbv
RT: 11.766 min Scan# 3608
Delta R.T. -0.003 min
Lab File: VL042368.D
Acq: 17 Apr 2025 21:12

Tgt Ion:105 Resp: 8800

Ion	Ratio	Lower	Upper
105	100		
134	40.5	14.6	21.8#



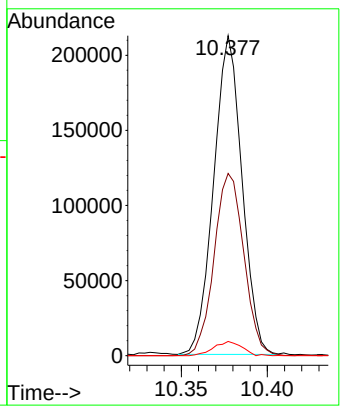


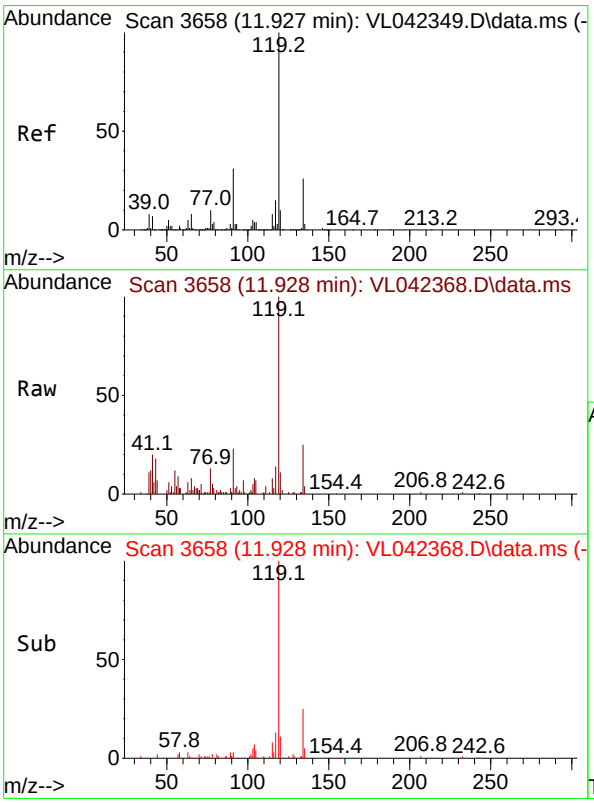
#68
1-Bromo-4-Fluorobenzene
Concen: 9.942 ppbv
RT: 10.377 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042368.D
Acq: 17 Apr 2025 21:12

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-2-03312025

Tgt Ion: 95 Resp: 243044

Ion	Ratio	Lower	Upper
95	100		
174	60.1	48.5	72.7
175	4.4	3.7	5.5

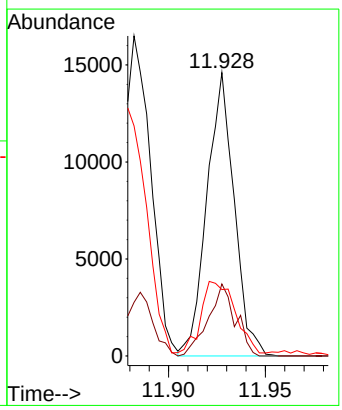


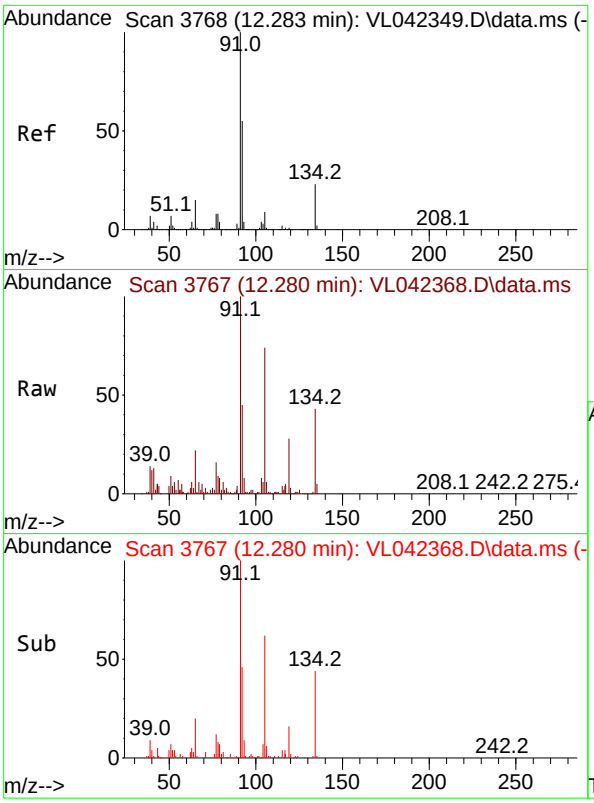


#69
p-Isopropyltoluene
Concen: 0.184 ppbv
RT: 11.928 min Scan# 3658
Delta R.T. 0.000 min
Lab File: VL042368.D
Acq: 17 Apr 2025 21:12

Tgt Ion:119 Resp: 14319

Ion	Ratio	Lower	Upper
119	100		
134	25.4	20.0	30.0
91	34.4	24.4	36.6



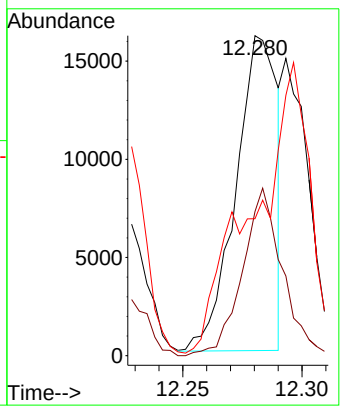


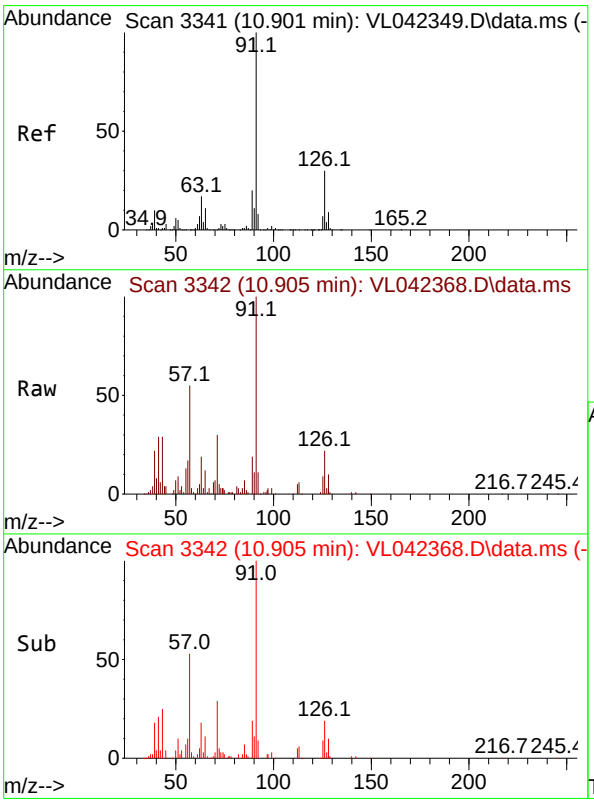
#70
n-Butylbenzene
Concen: 0.238 ppbv
RT: 12.280 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042368.D
Acq: 17 Apr 2025 21:12

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-2-03312025

Tgt Ion: 91 Resp: 19345

Ion	Ratio	Lower	Upper
91	100		
92	51.2	44.2	66.4
134	0.0	18.2	27.4#

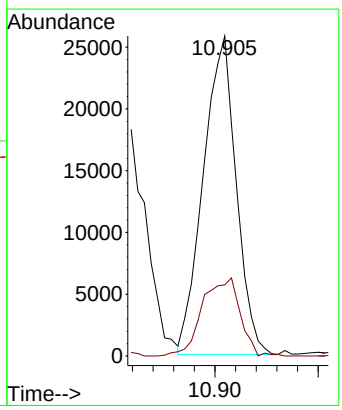


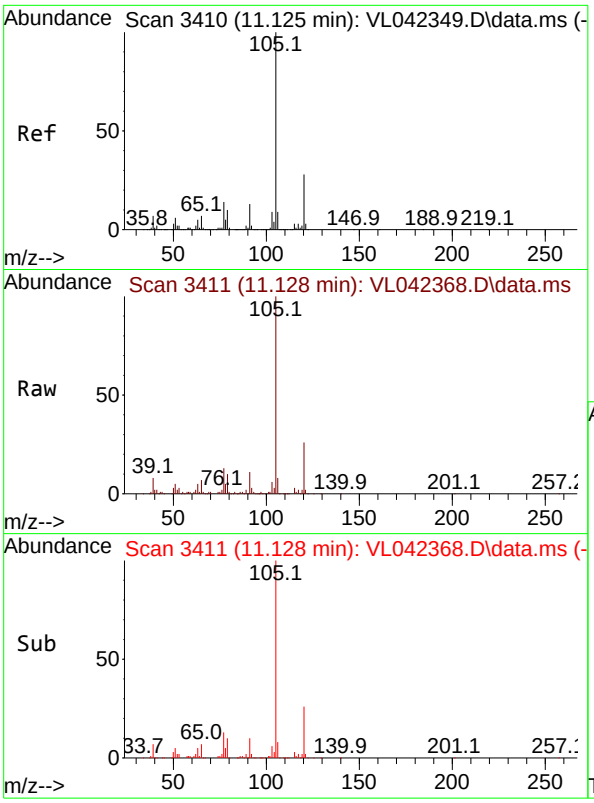


#71
2-Chlorotoluene
Concen: 0.517 ppbv
RT: 10.905 min Scan# 3342
Delta R.T. 0.004 min
Lab File: VL042368.D
Acq: 17 Apr 2025 21:12

Tgt Ion: 91 Resp: 28490

Ion	Ratio	Lower	Upper
91	100		
126	29.0	11.4	45.4



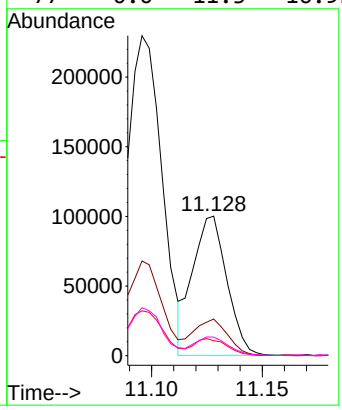


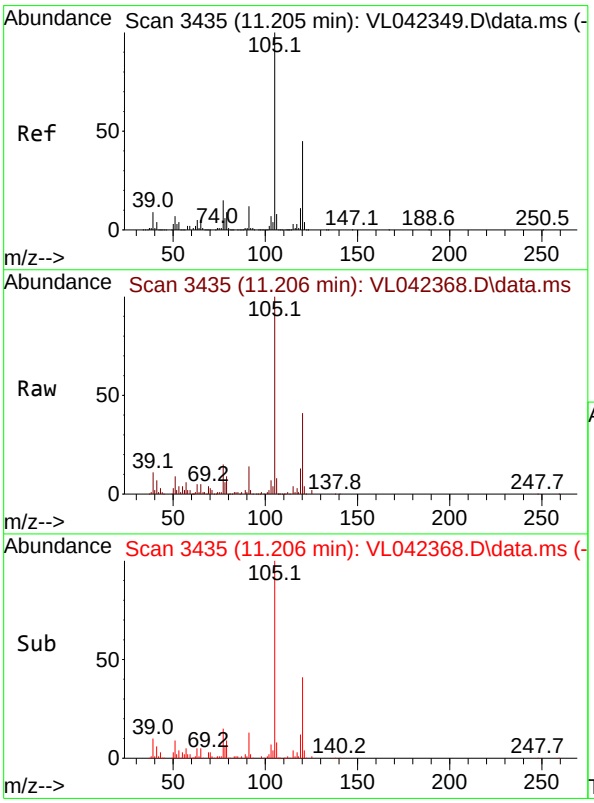
#72
4-Ethyltoluene
Concen: 1.839 ppbv
RT: 11.128 min Scan# 34
Delta R.T. 0.004 min
Lab File: VL042368.D
Acq: 17 Apr 2025 21:12

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-2-03312025

Tgt Ion:105 Resp: 107491

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#

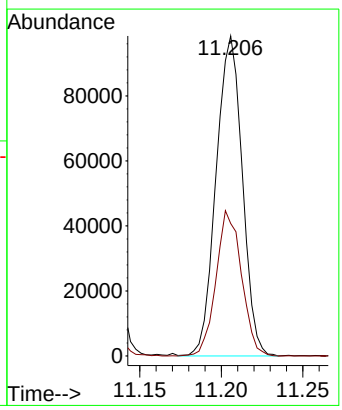


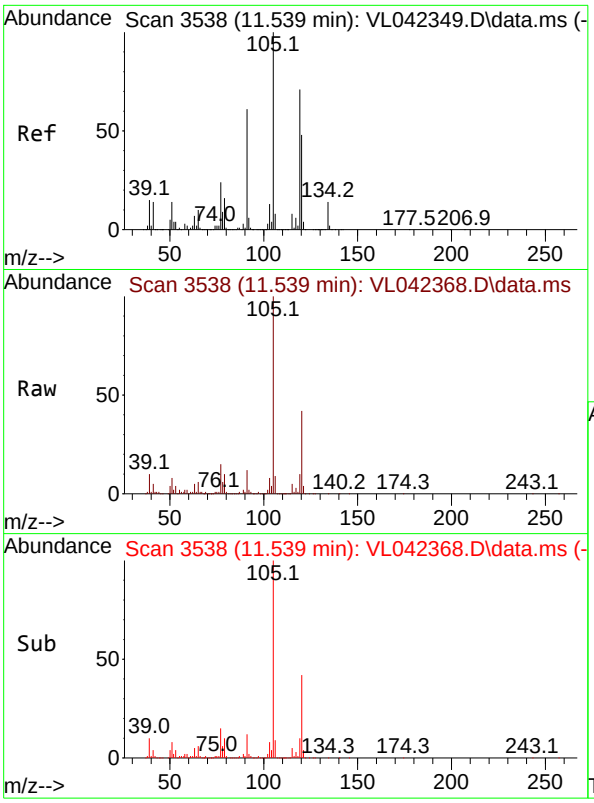


#73
1,3,5-Trimethylbenzene
Concen: 2.130 ppbv
RT: 11.206 min Scan# 3435
Delta R.T. 0.000 min
Lab File: VL042368.D
Acq: 17 Apr 2025 21:12

Tgt Ion:105 Resp: 109907

Ion	Ratio	Lower	Upper
105	100		
120	41.4	35.6	53.4



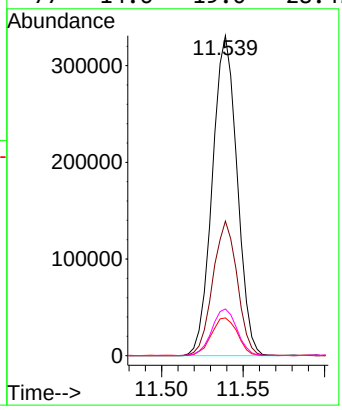


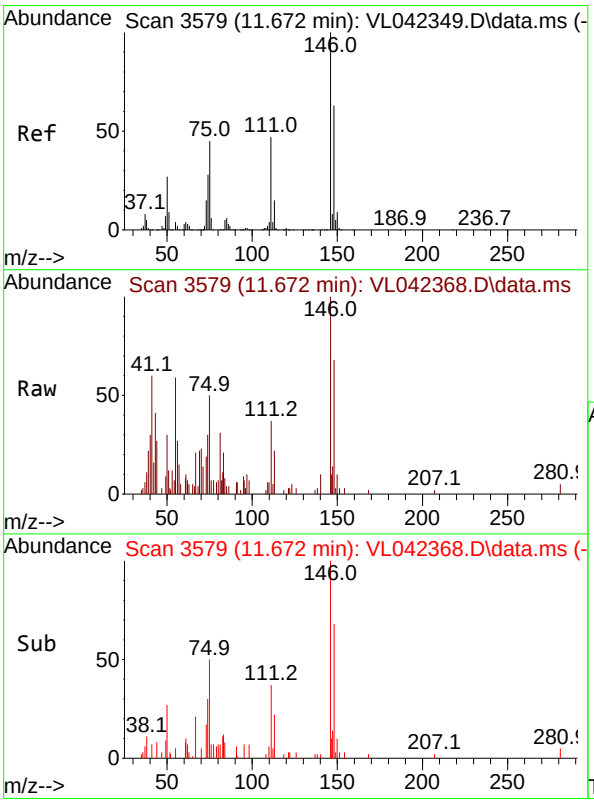
#74
1,2,4-Trimethylbenzene
Concen: 5.794 ppbv
RT: 11.539 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042368.D
Acq: 17 Apr 2025 21:12

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-2-03312025

Tgt Ion:105 Resp: 349266

Ion	Ratio	Lower	Upper
105	100		
120	42.1	38.1	57.1
91	11.7	48.8	73.2#
77	14.6	19.0	28.4#

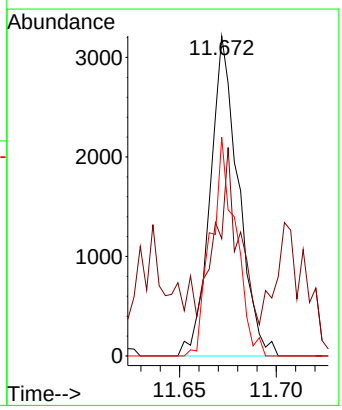


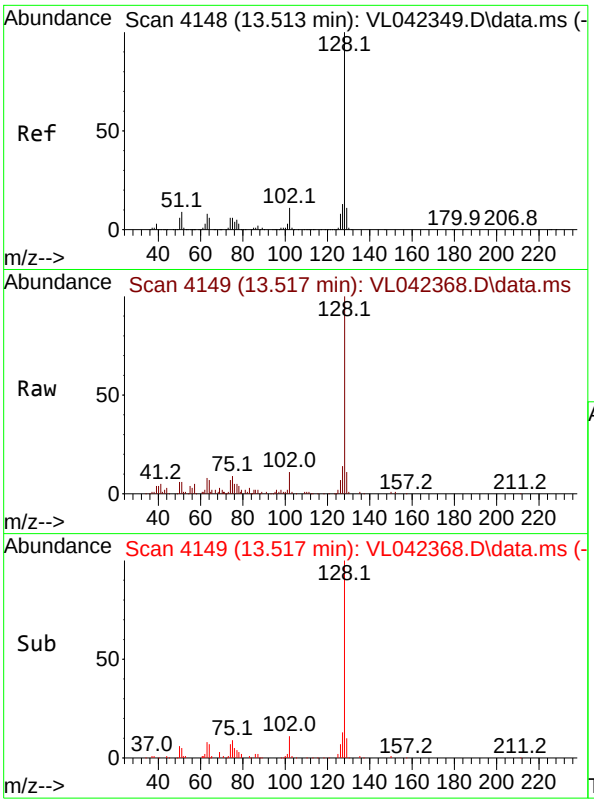


#76
1,4-Dichlorobenzene
Concen: 0.103 ppbv
RT: 11.672 min Scan# 3579
Delta R.T. 0.000 min
Lab File: VL042368.D
Acq: 17 Apr 2025 21:12

Tgt Ion:146 Resp: 3251

Ion	Ratio	Lower	Upper
146	100		
111	41.6	24.2	72.6
148	60.1	32.1	96.5



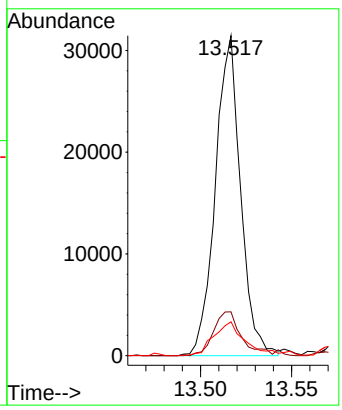


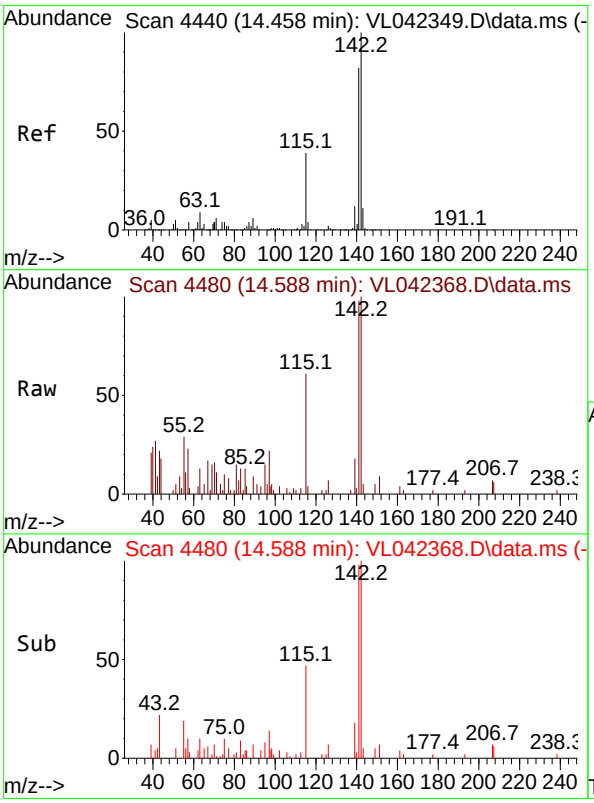
#79
Naphthalene
Concen: 0.420 ppbv
RT: 13.517 min Scan# 4
Delta R.T. 0.004 min
Lab File: VL042368.D
Acq: 17 Apr 2025 21:12

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-2-03312025

Tgt Ion:128 Resp: 30244

Ion	Ratio	Lower	Upper
128	100		
127	13.7	10.6	15.8
129	10.6	8.6	12.8

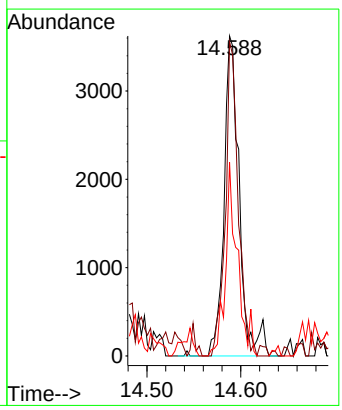




#80
Naphthalene,2-methyl-
Concen: 0.099 ppbv
RT: 14.588 min Scan# 4480
Delta R.T. 0.130 min
Lab File: VL042368.D
Acq: 17 Apr 2025 21:12

Tgt Ion:142 Resp: 4067

Ion	Ratio	Lower	Upper
142	100		
141	84.7	66.8	100.2
115	47.5	33.4	50.2



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042369.D
Acq On : 17 Apr 2025 21:45
Operator : SY/MD
Sample : Q1726-04
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025

Quant Time: Apr 18 02:44:30 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	115766	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.959	114	331154	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.881	117	288378	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.377	95	233305	9.845	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 98.500%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.499	85	9802	0.479	ppbv		95
3) Chlorodifluoromethane	1.466	51	58445	3.001	ppbv	#	62
4) Chloromethane	1.534	50	5300	0.655	ppbv	#	81
6) Bromomethane	1.664	94	181	0.048	ppbv	#	31
7) Chloroethane	1.699	64	134	0.042	ppbv	#	75
8) Dichlorotetrafluoroethane	1.554	85	651	0.037	ppbv	#	60
9) Propene	1.557	41	74678	8.419	ppbv		93
10) Heptane	4.978	43	213280	8.559	ppbv		95
11) Trichlorofluoromethane	1.877	101	4337	0.223	ppbv		92
12) 1,1,2-Trichlorotrifluo...	2.140	101	1353	0.085	ppbv		88
13) Ethanol	1.722	45	387433	274.810	ppbv		76
15) Acetone	1.835	43	2882826	152.118	ppbv	#	50
16) 1,3-Butadiene	1.622	39	32554	3.591	ppbv	#	15
17) tert-Butyl alcohol	2.272	59	39943	1.701	ppbv		98
19) Isopropyl Alcohol	1.887	45	311784	29.616	ppbv	#	33
20) Methylene Chloride	2.062	84	21493	2.896	ppbv		95
21) Allyl Chloride	2.042	41	4252	0.325	ppbv	#	24
22) trans-1,2-Dichloroethene	2.340	96	269	0.032	ppbv	#	17
23) Vinyl Acetate	2.473	43	79985	10.427	ppbv	#	56
25) Ethyl Acetate	2.826	43	85250	1.824	ppbv	#	85
26) Hexane	2.826	57	104975	5.551	ppbv	#	36
27) Carbon Disulfide	2.149	76	1100	0.054	ppbv	#	54
28) Methyl tert-Butyl Ether	2.444	73	452	0.036	ppbv	#	48
29) Chloroform	2.852	83	1851	0.069	ppbv		89
30) Cyclohexane	3.855	84	32446	2.123	ppbv		89
34) 2-Butanone	2.560	43	31500	1.203	ppbv		99
36) Benzene	3.658	78	67666	1.894	ppbv		98
37) 1,2-Dichloroethane	3.221	62	4202	0.196	ppbv	#	88
39) 1,2-Dichloropropane	3.955	63	89351	6.713	ppbv	#	23
41) Tetrahydrofuran	3.065	42	3416	0.224	ppbv	#	83
43) Methyl Methacrylate	4.897	69	2330	0.145	ppbv	#	1
44) 2,2,4-Trimethylpentane	4.641	57	1192538	19.331	ppbv		95
50) 4-Methyl-2-Pentanone	5.768	43	3804	0.087	ppbv	#	39
51) 2-Hexanone	7.419	43	81232	2.081	ppbv	#	32
52) Tetrachloroethene	8.228	164	1403	0.102	ppbv	#	65
53) Toluene	6.933	91	2204506	51.432	ppbv		99
58) Ethyl Benzene	9.354	91	646931	11.323	ppbv		100
59) m/p-Xylene	9.532	91	1789840	38.886	ppbv		100
60) o-Xylene	9.963	91	709518	15.308	ppbv		99
61) Styrene	9.869	104	8504	0.384	ppbv	#	91
62) Isopropylbenzene	10.539	105	67289	0.989	ppbv		100
64) n-propylbenzene	10.989	120	58634	3.428	ppbv		95
65) tert-Butylbenzene	11.539	119	126017	2.015	ppbv	#	72

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042369.D
Acq On : 17 Apr 2025 21:45
Operator : SY/MD
Sample : Q1726-04
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025

Quant Time: Apr 18 02:44:30 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

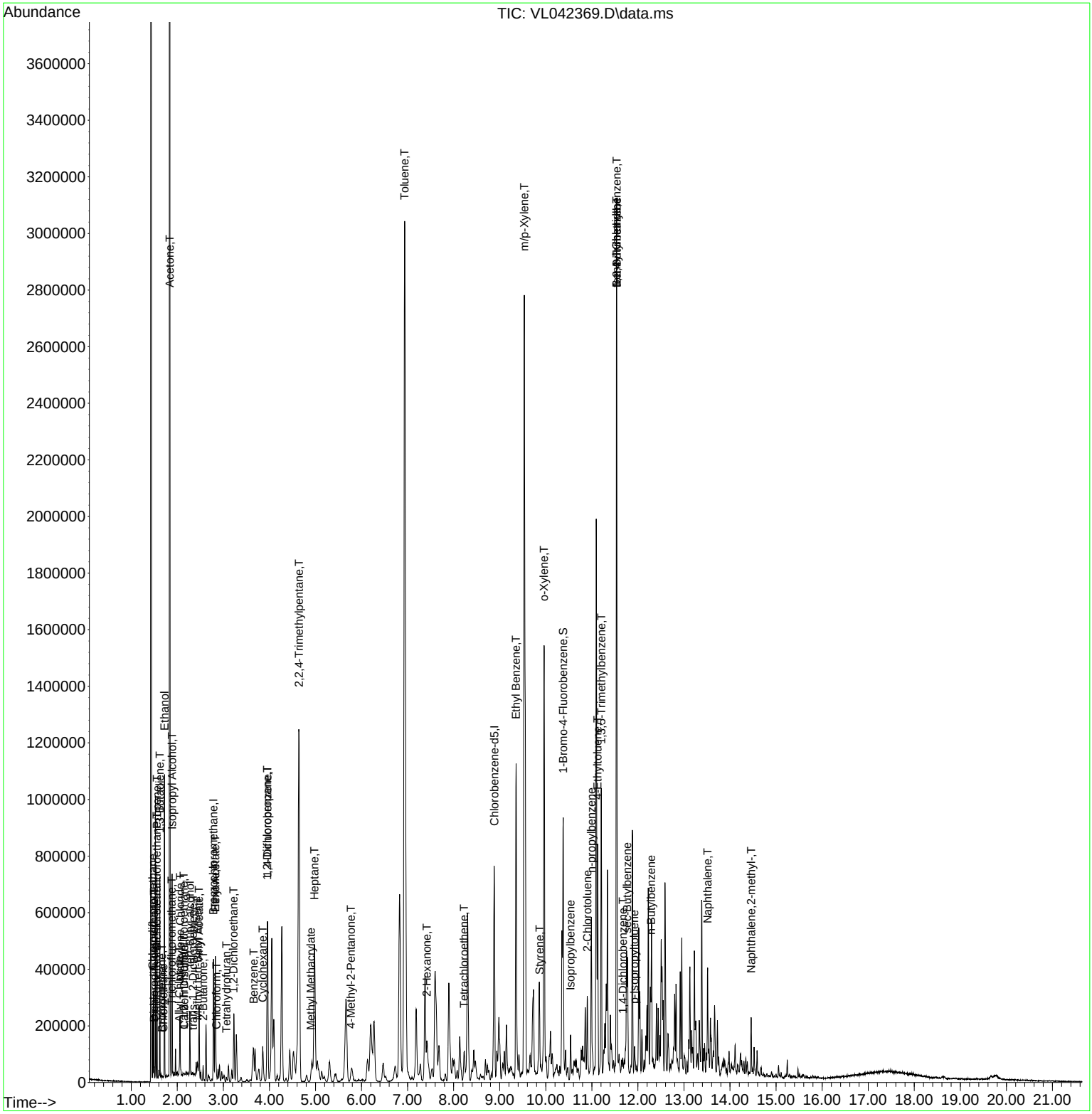
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
66) Benzyl Chloride	11.536	91	143029	20.811	ppbv	#	70
67) sec-Butylbenzene	11.769	105	20996	0.241	ppbv	#	77
69) p-Isopropyltoluene	11.924	119	33273	0.440	ppbv		98
70) n-Butylbenzene	12.286	91	102145	1.298	ppbv	#	35
71) 2-Chlorotoluene	10.901	91	54169	1.015	ppbv		97
72) 4-Ethyltoluene	11.124	105	313941	5.540	ppbv	#	56
73) 1,3,5-Trimethylbenzene	11.205	105	354735	7.091	ppbv		100
74) 1,2,4-Trimethylbenzene	11.539	105	1151476	19.707	ppbv	#	65
76) 1,4-Dichlorobenzene	11.671	146	10434	0.342	ppbv	#	50
79) Naphthalene	13.513	128	166277	2.380	ppbv		98
80) Naphthalene,2-methyl-	14.458	142	50980	1.280	ppbv		96

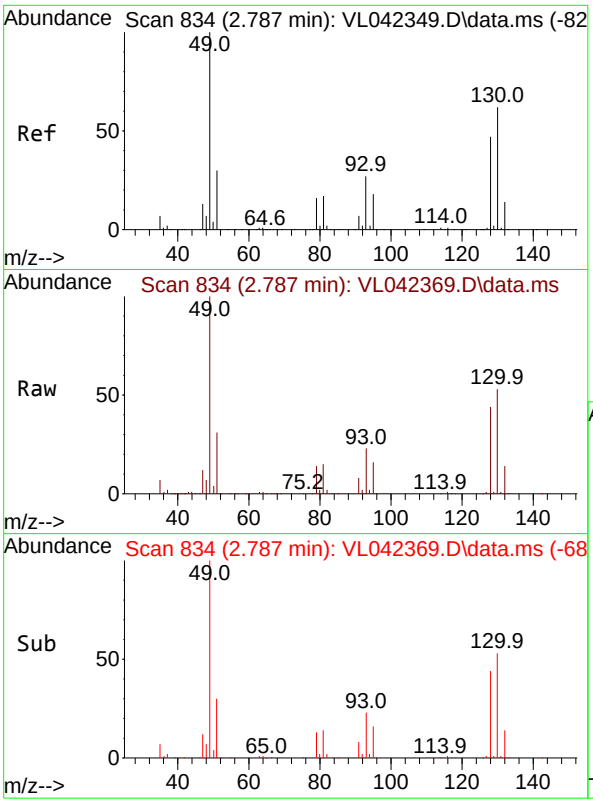
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042369.D
Acq On : 17 Apr 2025 21:45
Operator : SY/MD
Sample : Q1726-04
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025

Quant Time: Apr 18 02:44:30 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



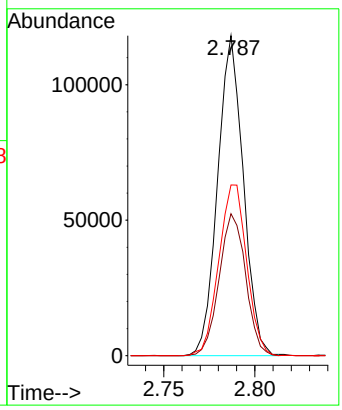


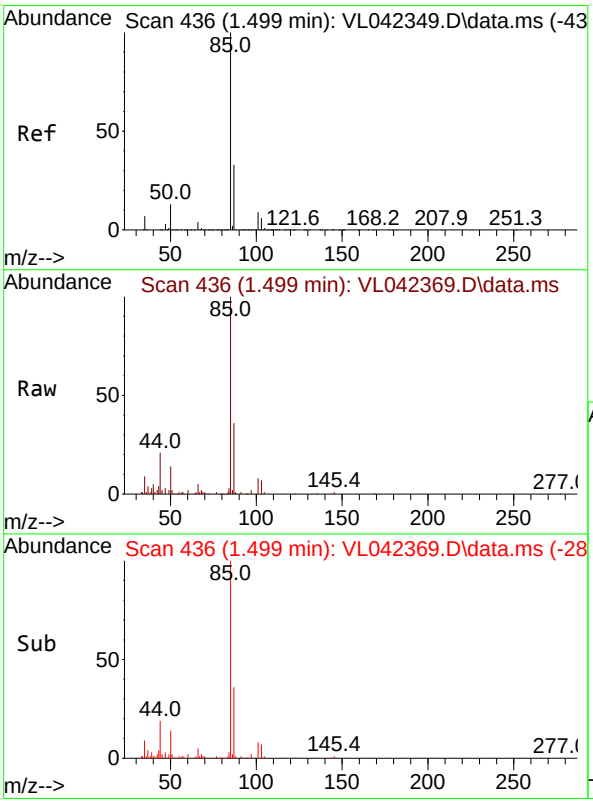
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025

Tgt Ion: 49 Resp: 115766

Ion	Ratio	Lower	Upper
49	100		
128	45.8	22.8	68.4
130	58.0	29.3	88.0

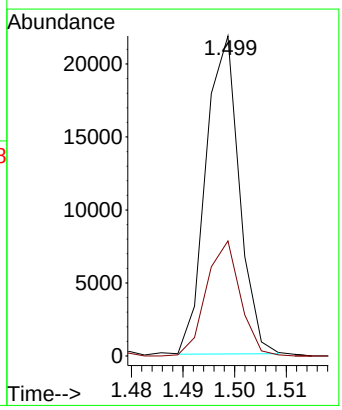


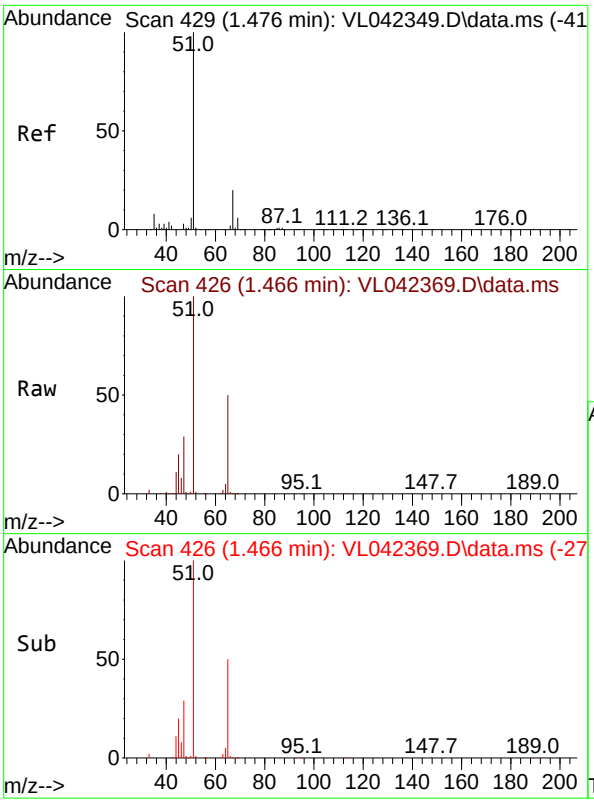


#2
Dichlorodifluoromethane
Concen: 0.479 ppbv
RT: 1.499 min Scan# 436
Delta R.T. -0.000 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

Tgt Ion: 85 Resp: 9802

Ion	Ratio	Lower	Upper
85	100		
87	35.9	26.6	39.8



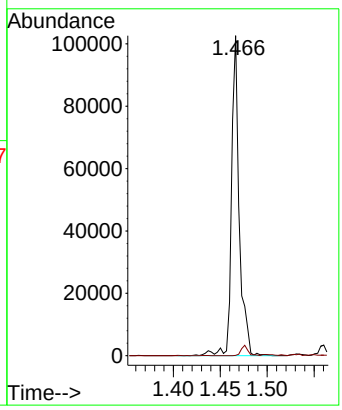


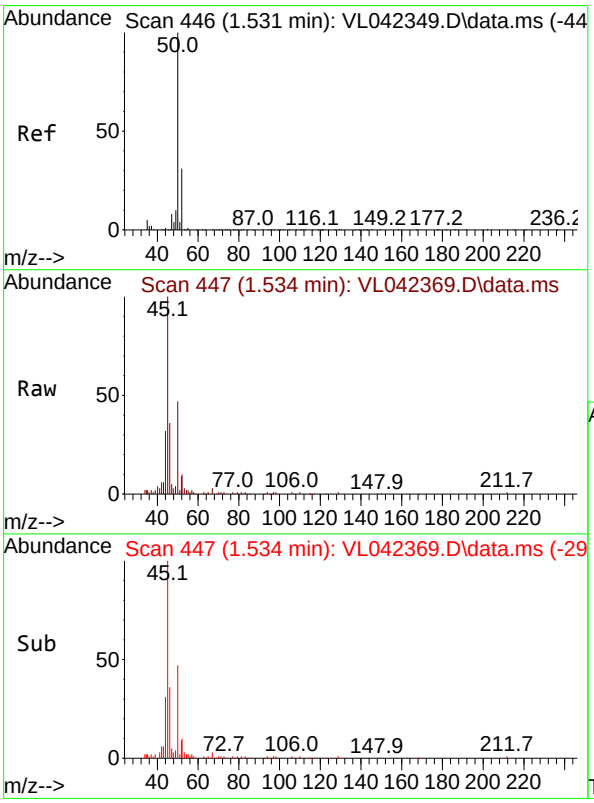
#3
Chlorodifluoromethane
Concen: 3.001 ppbv
RT: 1.466 min Scan# 4
Delta R.T. -0.010 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025

Tgt Ion: 51 Resp: 58445

Ion	Ratio	Lower	Upper
51	100		
67	2.9	16.2	24.4#

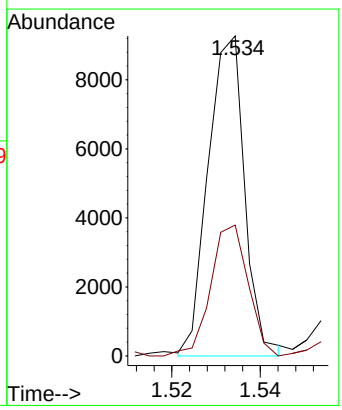


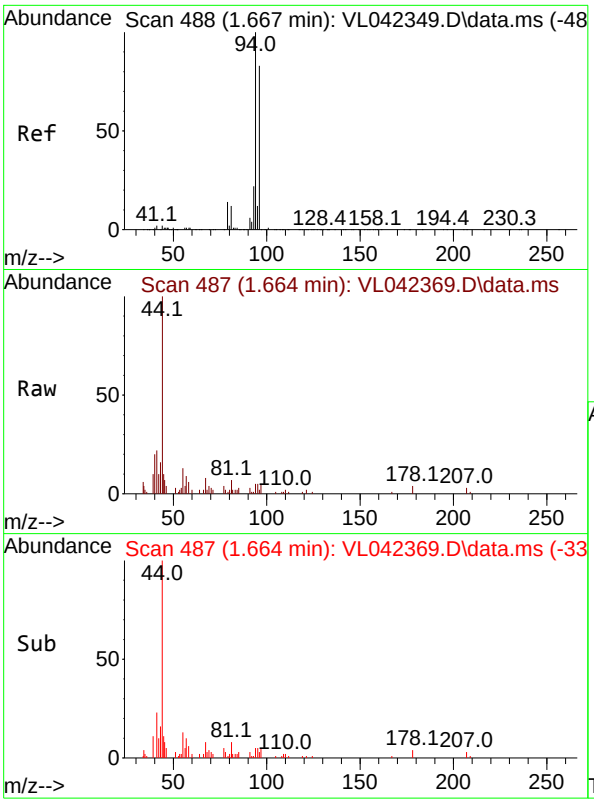


#4
Chloromethane
Concen: 0.655 ppbv
RT: 1.534 min Scan# 447
Delta R.T. 0.003 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

Tgt Ion: 50 Resp: 5300

Ion	Ratio	Lower	Upper
50	100		
52	41.3	24.7	37.1#



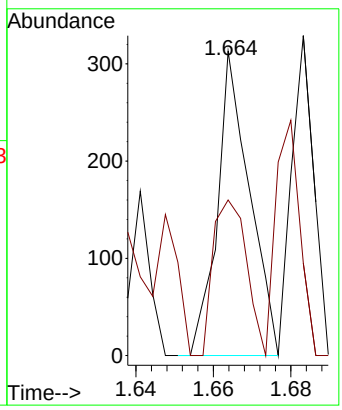


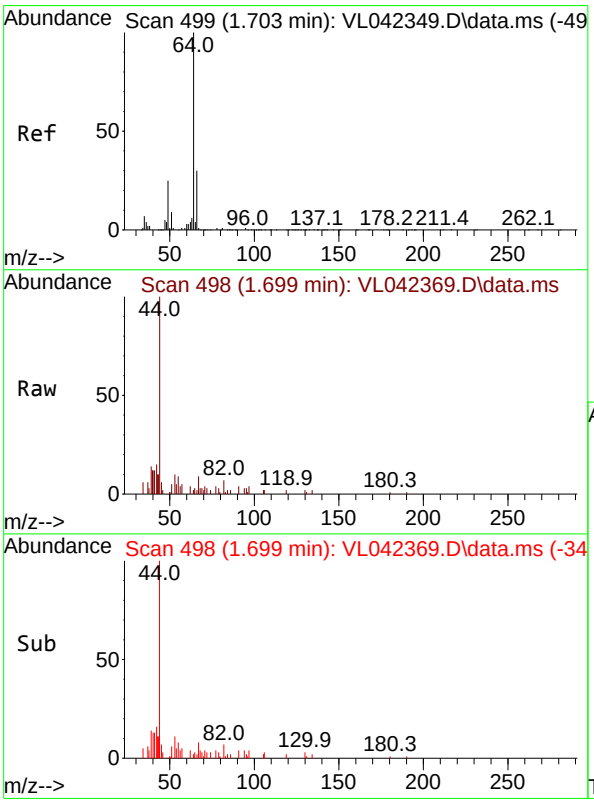
#6
Bromomethane
Concen: 0.048 ppbv
RT: 1.664 min Scan# 4
Delta R.T. -0.003 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025

Tgt Ion: 94 Resp: 181

Ion	Ratio	Lower	Upper
94	100		
96	20.4	66.2	99.2#

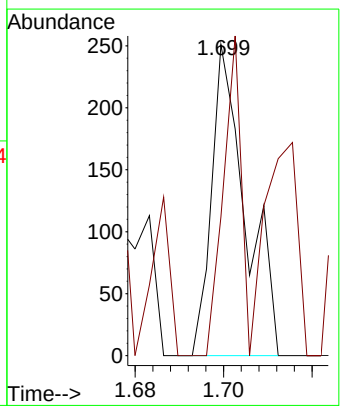


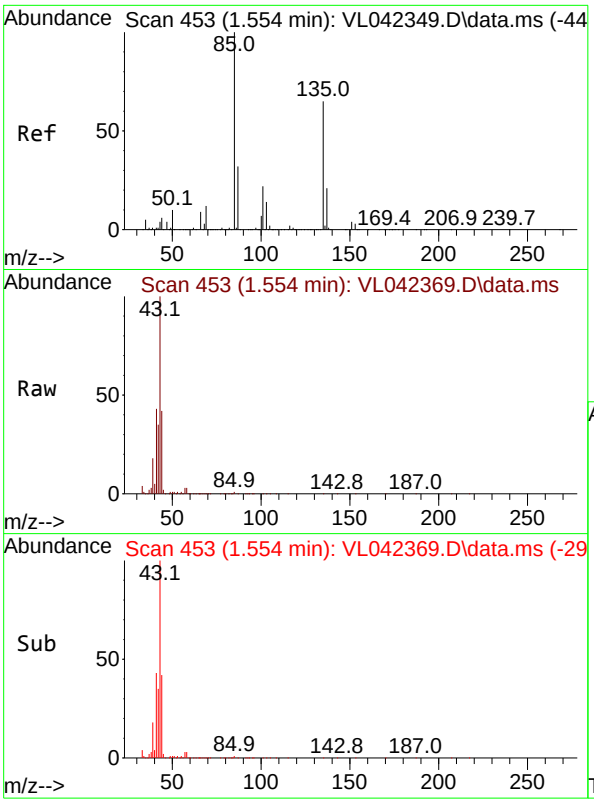


#7
Chloroethane
Concen: 0.042 ppbv
RT: 1.699 min Scan# 498
Delta R.T. -0.003 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

Tgt Ion: 64 Resp: 134

Ion	Ratio	Lower	Upper
64	100		
66	44.6	24.6	37.0#



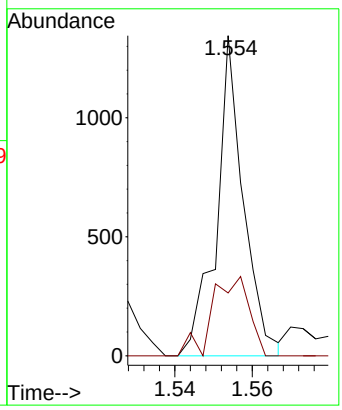


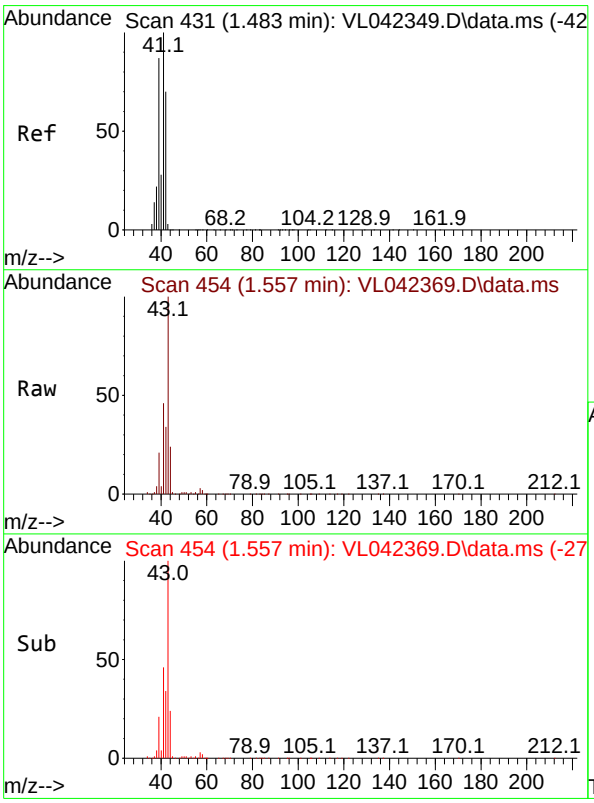
#8
Dichlorotetrafluoroethane
Concen: 0.037 ppbv
RT: 1.554 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025

Tgt Ion: 85 Resp: 651

Ion	Ratio	Lower	Upper
85	100		
135	33.9	52.2	78.2#

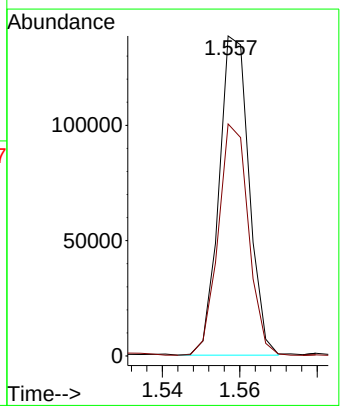


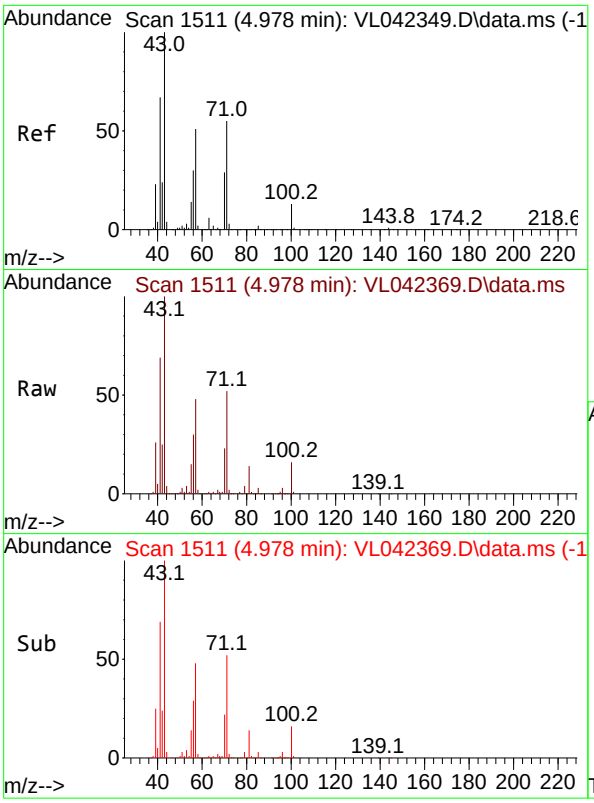


#9
Propene
Concen: 8.419 ppbv
RT: 1.557 min Scan# 454
Delta R.T. 0.074 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

Tgt Ion: 41 Resp: 74678

Ion	Ratio	Lower	Upper
41	100		
42	75.7	56.2	84.4



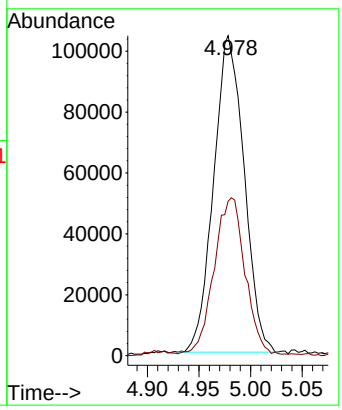


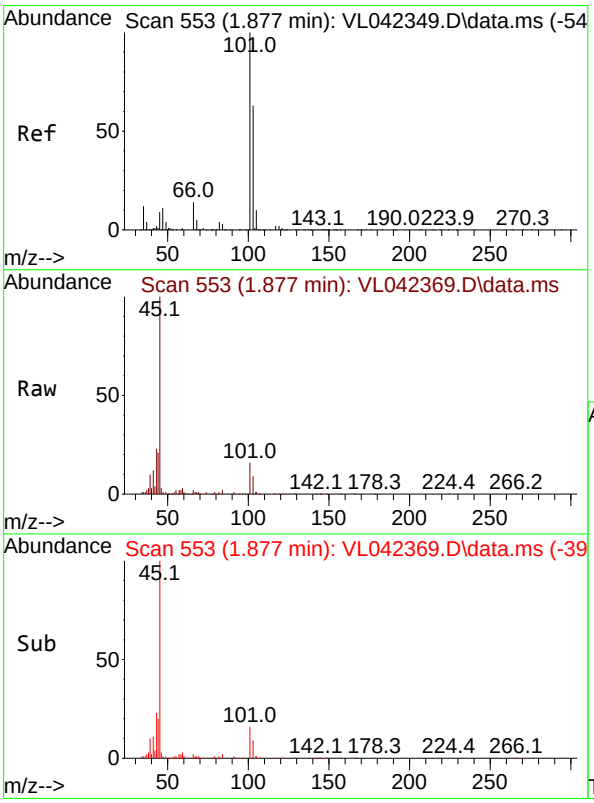
#10
Heptane
Concen: 8.559 ppbv
RT: 4.978 min Scan# 1
Delta R.T. -0.000 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025

Tgt Ion: 43 Resp: 213280

Ion	Ratio	Lower	Upper
43	100		
57	53.1	39.9	59.9

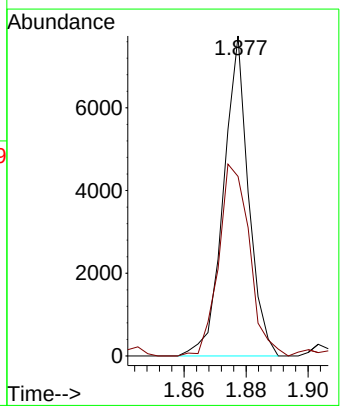


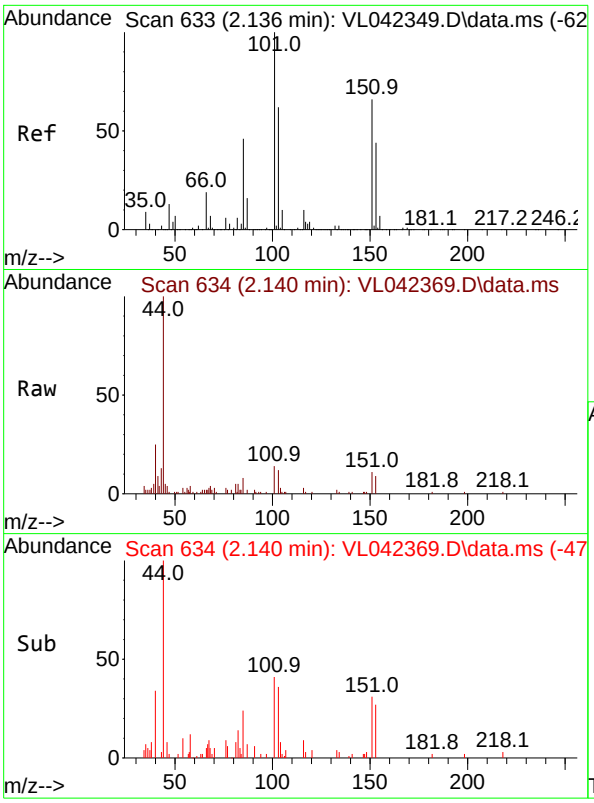


#11
Trichlorofluoromethane
Concen: 0.223 ppbv
RT: 1.877 min Scan# 553
Delta R.T. -0.000 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

Tgt Ion:101 Resp: 4337

Ion	Ratio	Lower	Upper
101	100		
103	56.1	50.1	75.1



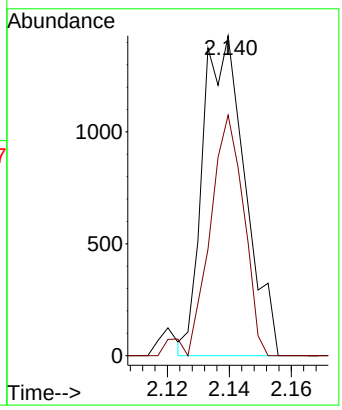


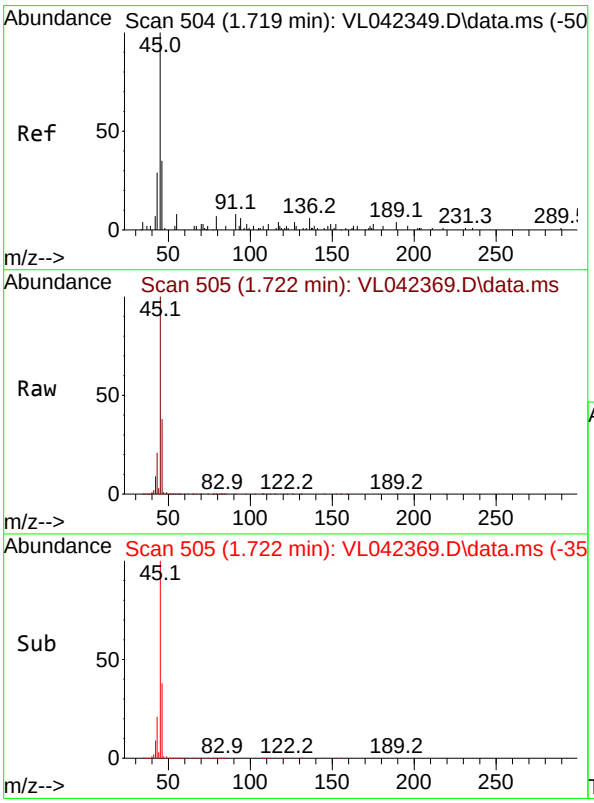
#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.085 ppbv
RT: 2.140 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025

Tgt Ion:101 Resp: 1353

Ion	Ratio	Lower	Upper
101	100		
151	61.0	57.0	85.6

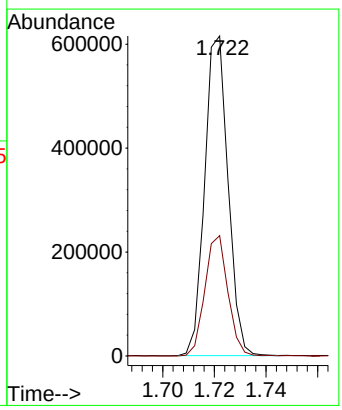


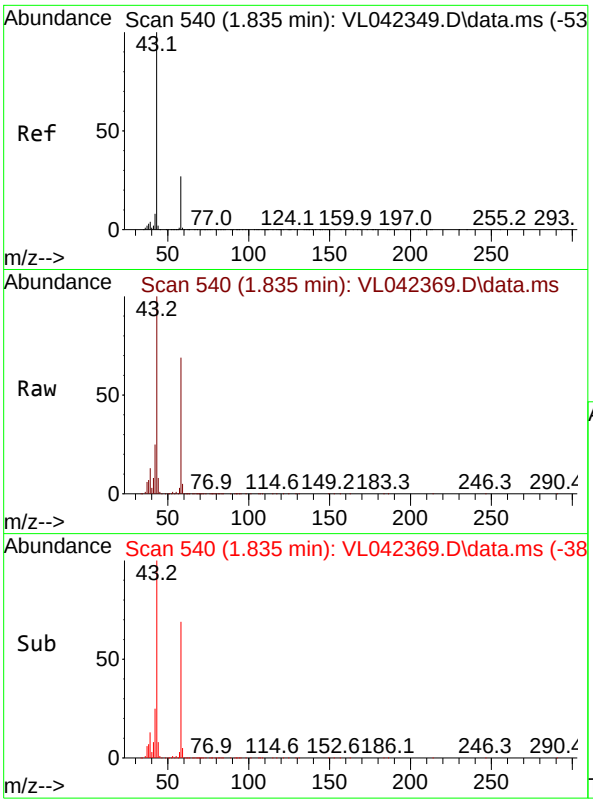


#13
Ethanol
Concen: 274.810 ppbv
RT: 1.722 min Scan# 505
Delta R.T. 0.003 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

Tgt Ion: 45 Resp: 387433

Ion	Ratio	Lower	Upper
45	100		
46	37.4	21.9	87.7



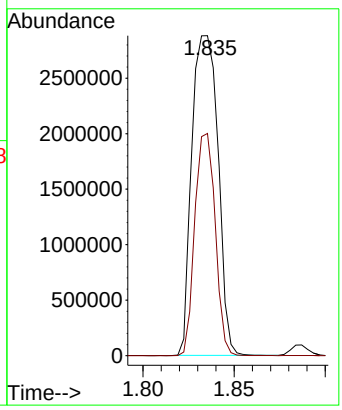


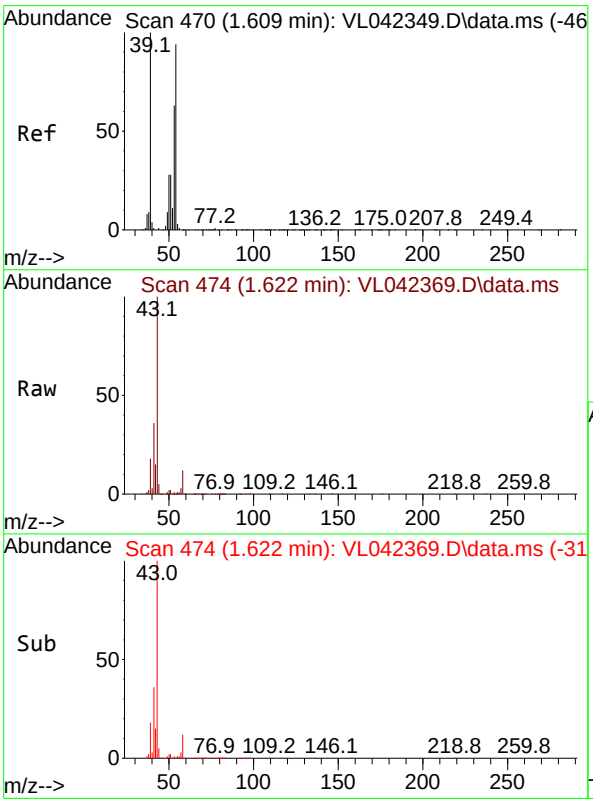
#15
Acetone
Concen: 152.118 ppbv
RT: 1.835 min Scan# 54
Delta R.T. -0.000 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025

Tgt Ion: 43 Resp: 2882826

Ion	Ratio	Lower	Upper
43	100		
58	54.3	22.4	33.6#

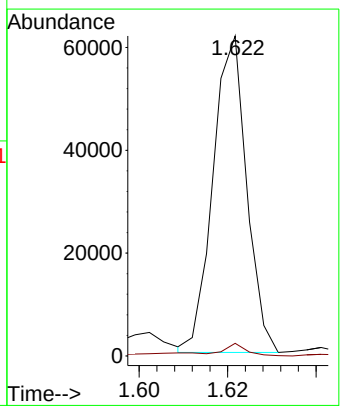


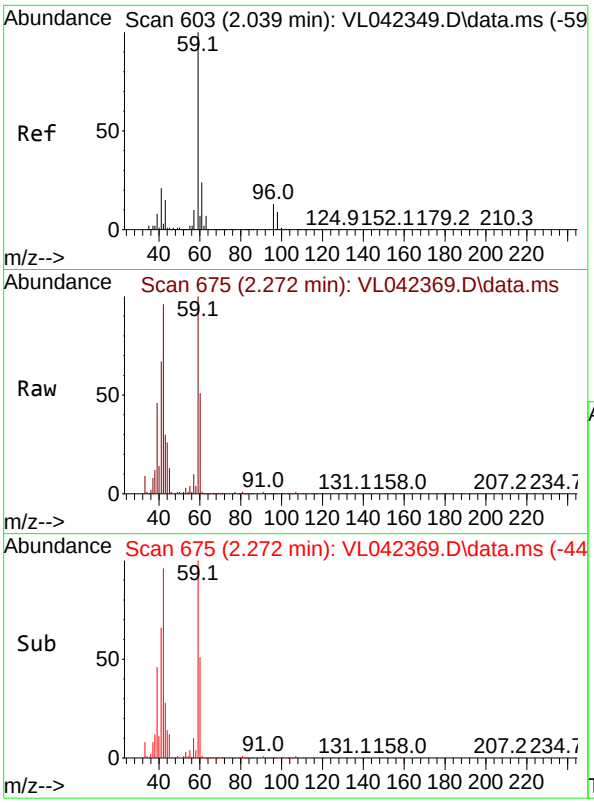


#16
1,3-Butadiene
Concen: 3.591 ppbv
RT: 1.622 min Scan# 474
Delta R.T. 0.013 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

Tgt Ion: 39 Resp: 32554

Ion	Ratio	Lower	Upper
39	100		
54	5.1	64.9	97.3#



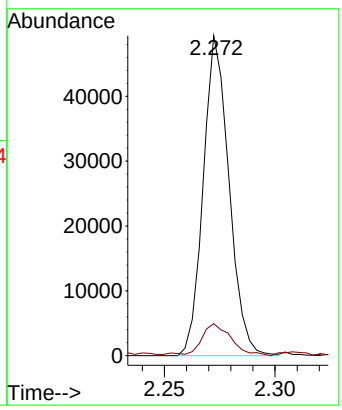


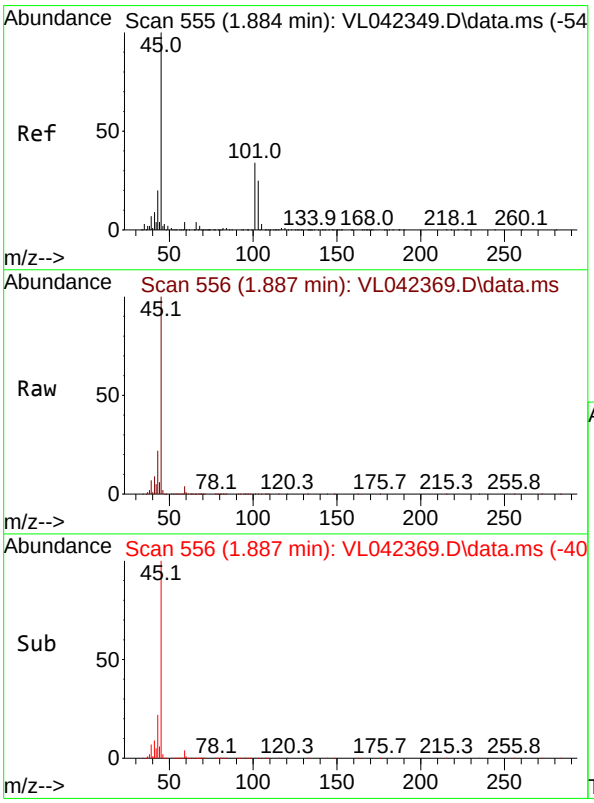
#17
tert-Butyl alcohol
Concen: 1.701 ppbv
RT: 2.272 min Scan# 6
Delta R.T. 0.233 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025

Tgt Ion: 59 Resp: 39943

Ion	Ratio	Lower	Upper
59	100		
57	11.6	8.7	13.1

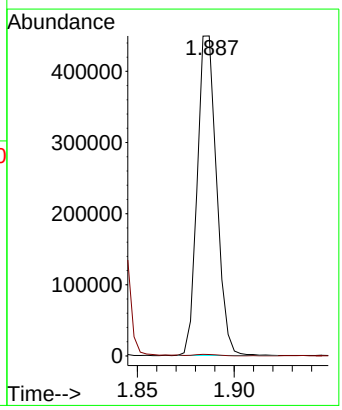


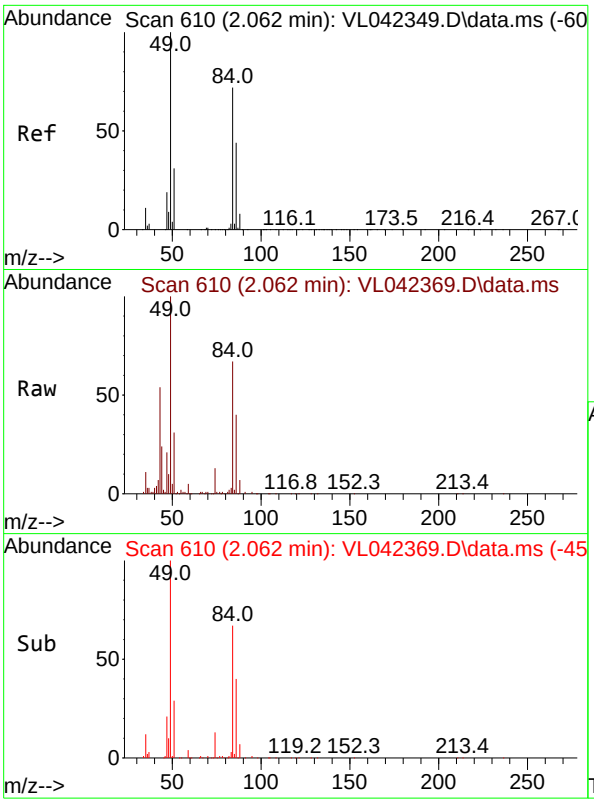


#19
Isopropyl Alcohol
Concen: 29.616 ppbv
RT: 1.887 min Scan# 556
Delta R.T. 0.003 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

Tgt Ion: 45 Resp: 311784

Ion	Ratio	Lower	Upper
45	100		
58	0.0	34.5	51.7#



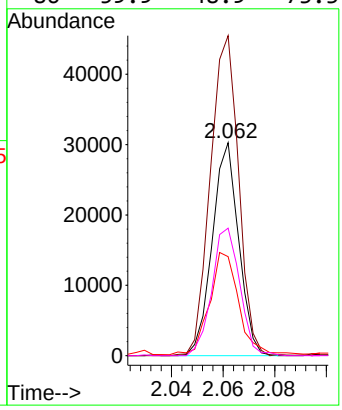


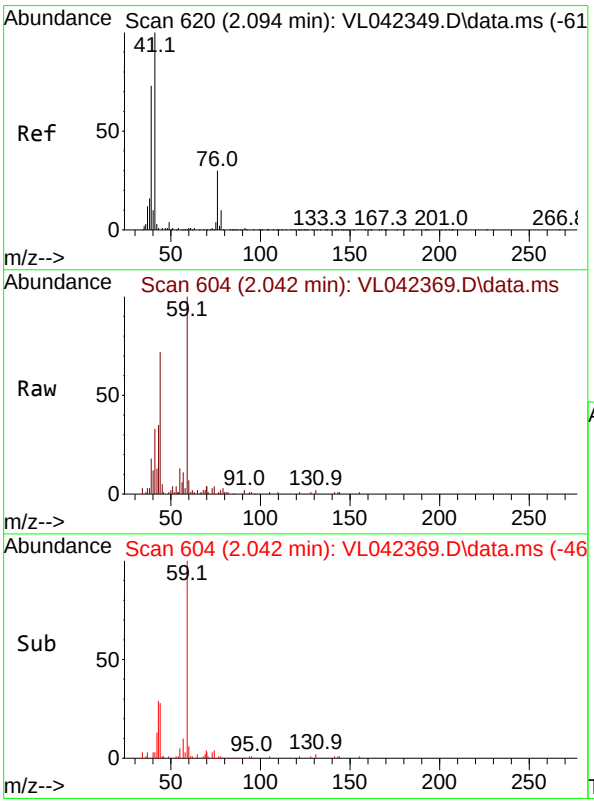
#20
Methylene Chloride
Concen: 2.896 ppbv
RT: 2.062 min Scan# 61
Delta R.T. -0.000 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025

Tgt Ion: 84 Resp: 21493

Ion	Ratio	Lower	Upper
84	100		
49	149.6	111.6	167.4
51	45.0	35.1	52.7
86	59.9	48.9	73.3

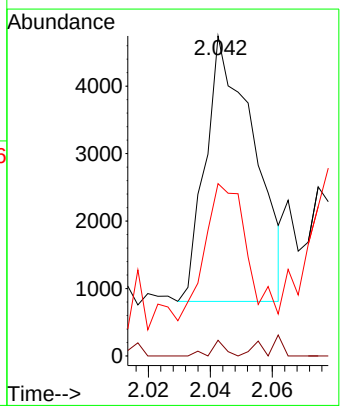


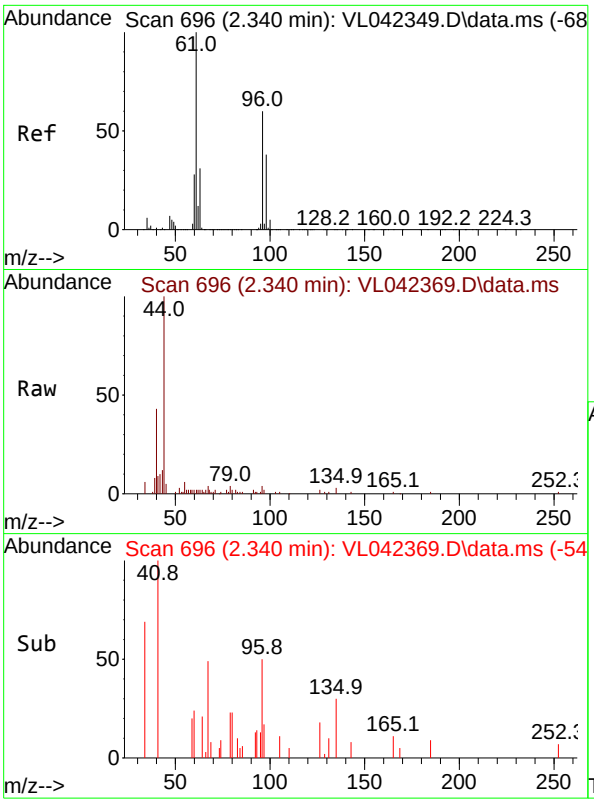


#21
Allyl Chloride
Concen: 0.325 ppbv
RT: 2.042 min Scan# 604
Delta R.T. -0.052 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

Tgt Ion: 41 Resp: 4252

Ion	Ratio	Lower	Upper
41	100		
76	6.1	24.8	37.2#
39	0.0	60.6	90.8#



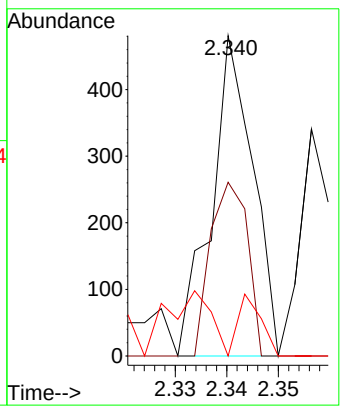


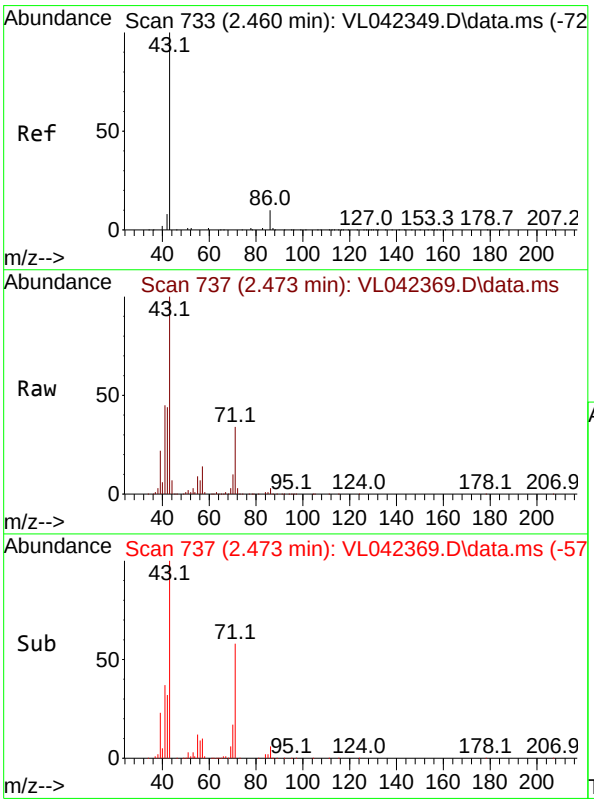
#22
trans-1,2-Dichloroethene
Concen: 0.032 ppbv
RT: 2.340 min Scan# 6
Delta R.T. -0.000 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025

Tgt Ion: 96 Resp: 269

Ion	Ratio	Lower	Upper
96	100		
61	54.3	133.7	200.5#
98	0.0	50.3	75.5#

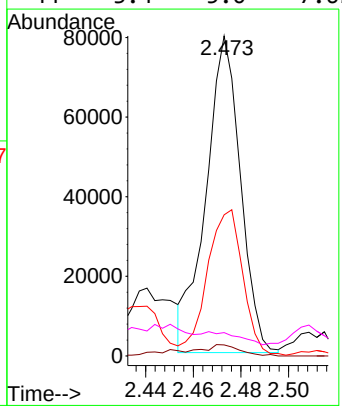


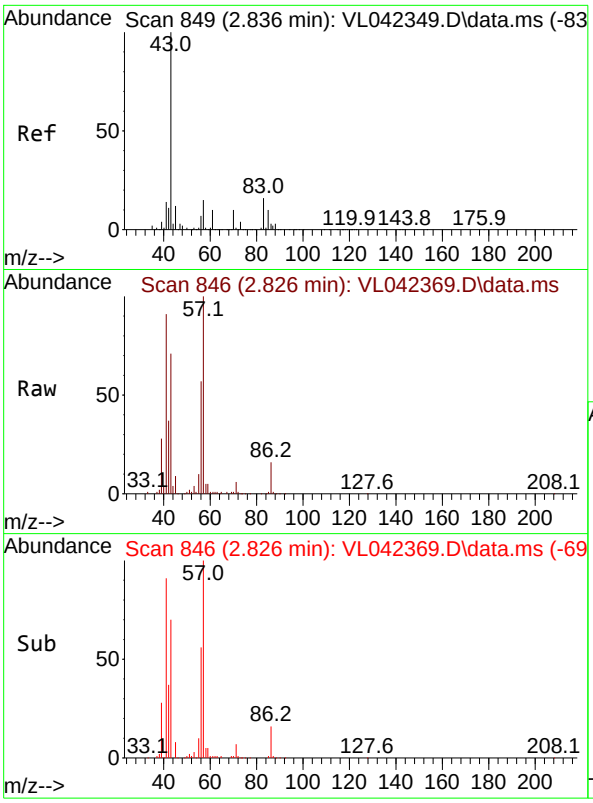


#23
Vinyl Acetate
Concen: 10.427 ppbv
RT: 2.473 min Scan# 737
Delta R.T. 0.013 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

Tgt Ion: 43 Resp: 79985

Ion	Ratio	Lower	Upper
43	100		
86	3.5	6.5	9.7#
42	44.2	7.8	11.8#
44	3.4	5.0	7.6#



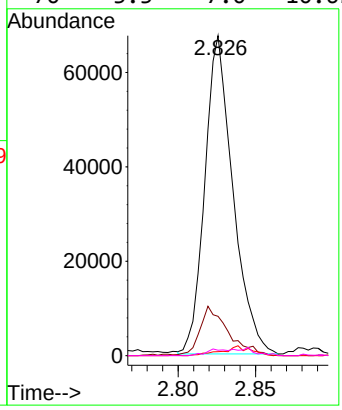


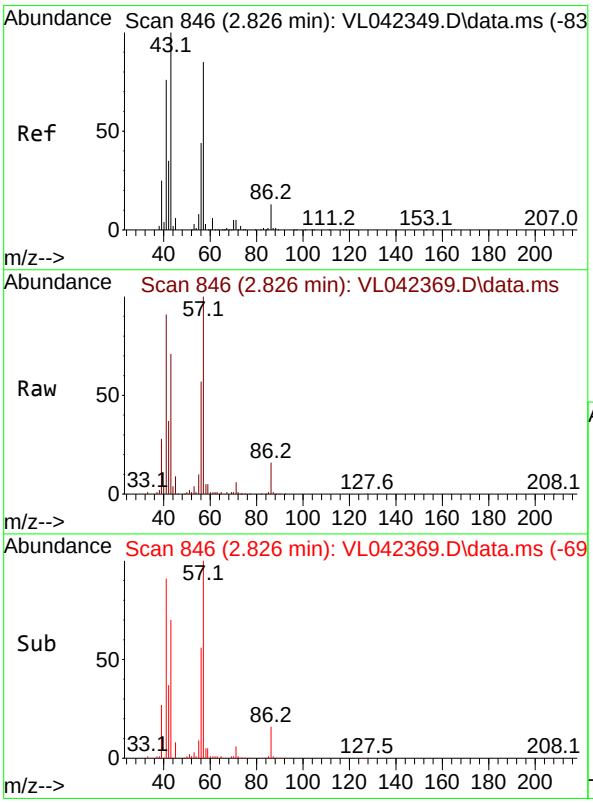
#25
Ethyl Acetate
Concen: 1.824 ppbv
RT: 2.826 min Scan# 84
Delta R.T. -0.010 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025

Tgt Ion: 43 Resp: 85250

Ion	Ratio	Lower	Upper
43	100		
45	16.0	8.3	12.5#
61	3.2	7.3	10.9#
70	3.3	7.0	10.6#

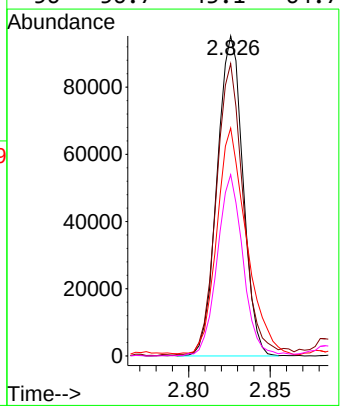


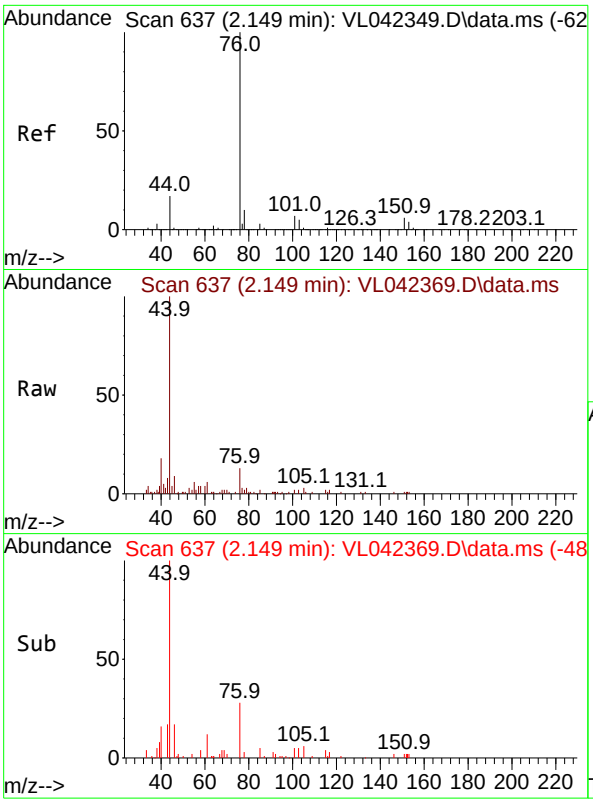


#26
Hexane
Concen: 5.551 ppbv
RT: 2.826 min Scan# 846
Delta R.T. -0.000 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

Tgt Ion: 57 Resp: 104975

Ion	Ratio	Lower	Upper
57	100		
41	96.7	77.9	116.9
43	80.2	208.4	312.6#
56	56.7	43.1	64.7



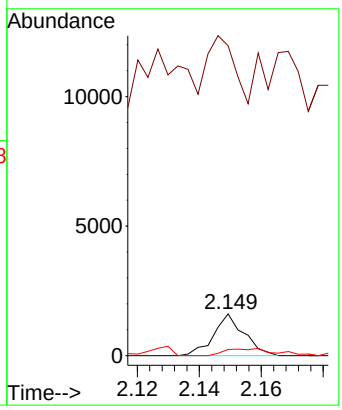


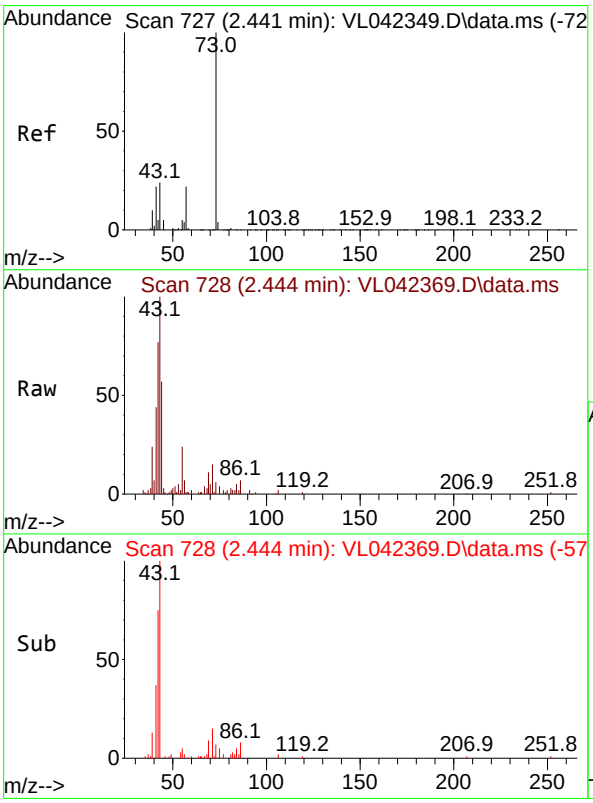
#27
Carbon Disulfide
Concen: 0.054 ppbv
RT: 2.149 min Scan# 6
Delta R.T. -0.000 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025

Tgt Ion: 76 Resp: 1100

Ion	Ratio	Lower	Upper
76	100		
44	0.0	15.5	23.3#
78	31.5	9.3	13.9#

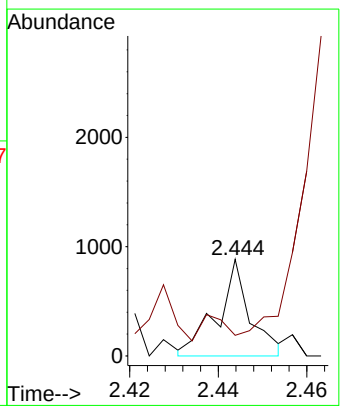


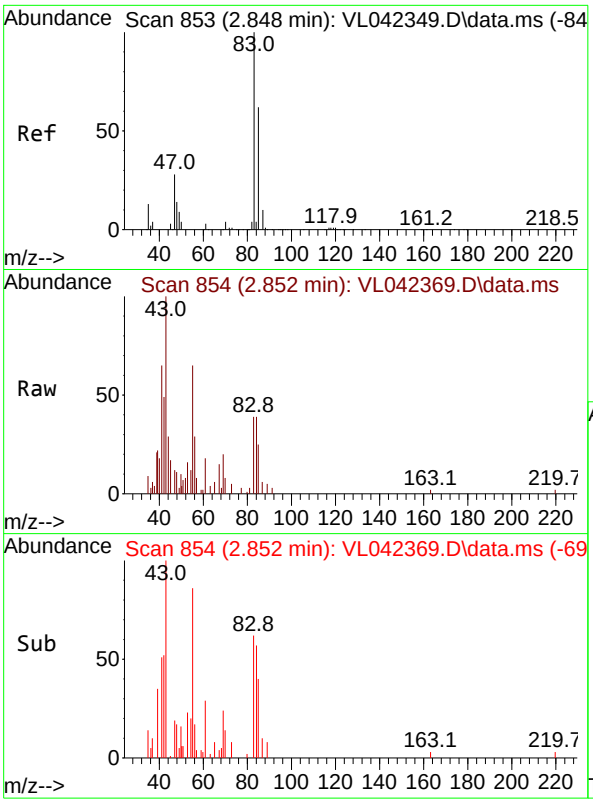


#28
Methyl tert-Butyl Ether
Concen: 0.036 ppbv
RT: 2.444 min Scan# 728
Delta R.T. 0.003 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

Tgt Ion: 73 Resp: 452

Ion	Ratio	Lower	Upper
73	100		
57	0.0	21.3	31.9#



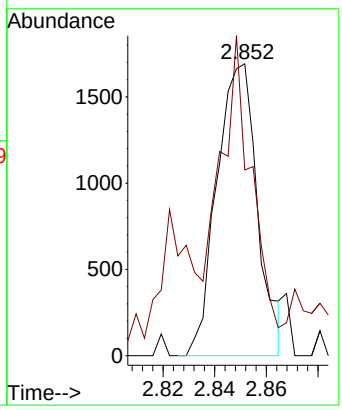


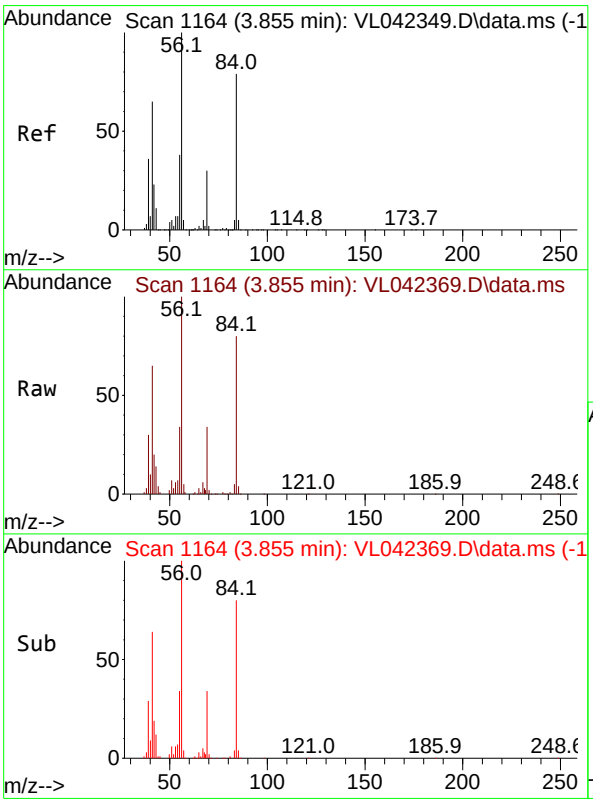
#29
Chloroform
Concen: 0.069 ppbv
RT: 2.852 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025

Tgt Ion: 83 Resp: 1851

Ion	Ratio	Lower	Upper
83	100		
85	54.1	50.0	75.0

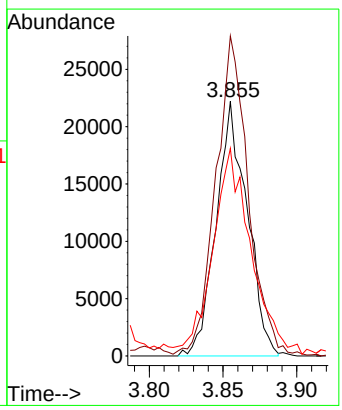


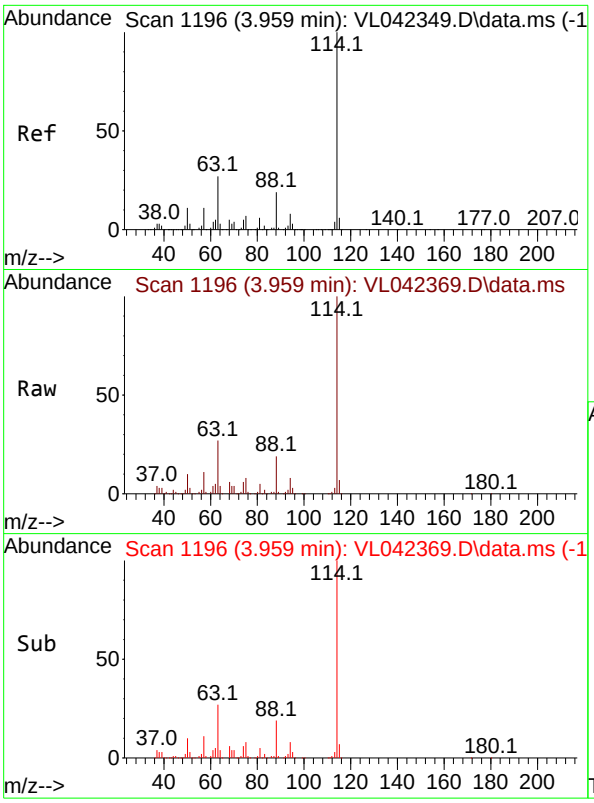


#30
Cyclohexane
Concen: 2.123 ppbv
RT: 3.855 min Scan# 1164
Delta R.T. -0.000 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

Tgt Ion: 84 Resp: 32446

Ion	Ratio	Lower	Upper
84	100		
56	132.7	101.0	151.4
41	100.9	67.4	101.0



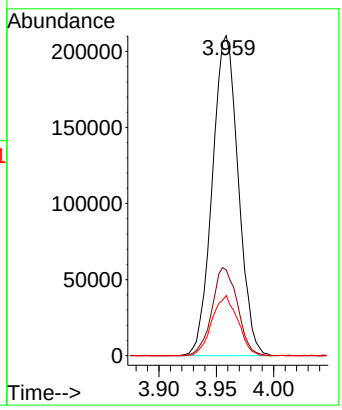


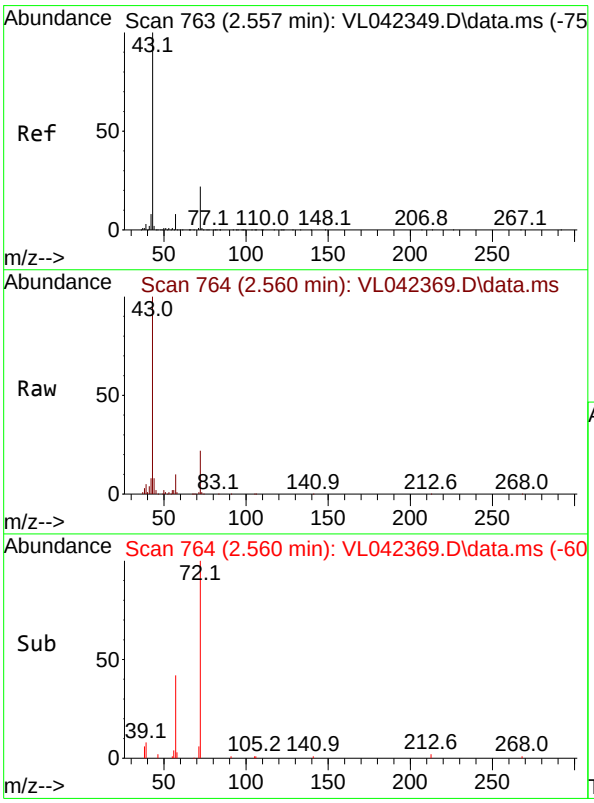
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.959 min Scan# 11
Delta R.T. -0.000 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025

Tgt Ion:114 Resp: 331154

Ion	Ratio	Lower	Upper
114	100		
63	27.0	21.8	32.6
88	18.8	15.5	23.3

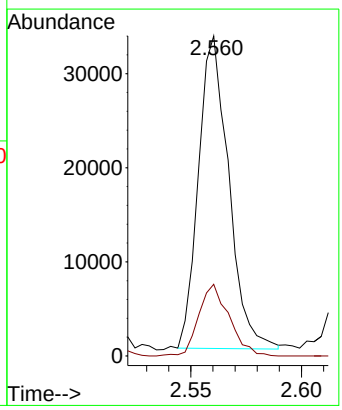


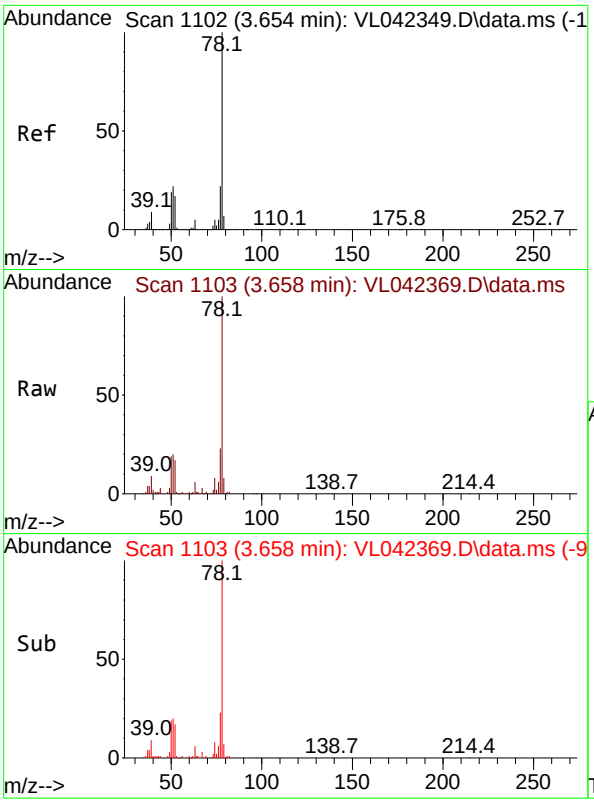


#34
2-Butanone
Concen: 1.203 ppbv
RT: 2.560 min Scan# 764
Delta R.T. 0.003 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

Tgt Ion: 43 Resp: 31500

Ion	Ratio	Lower	Upper
43	100		
72	23.1	18.2	27.2



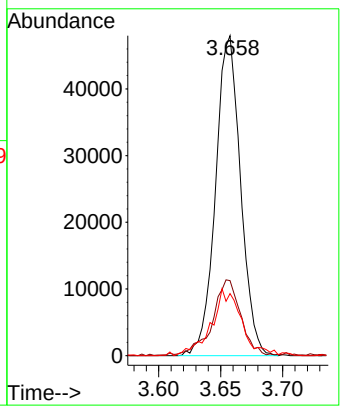


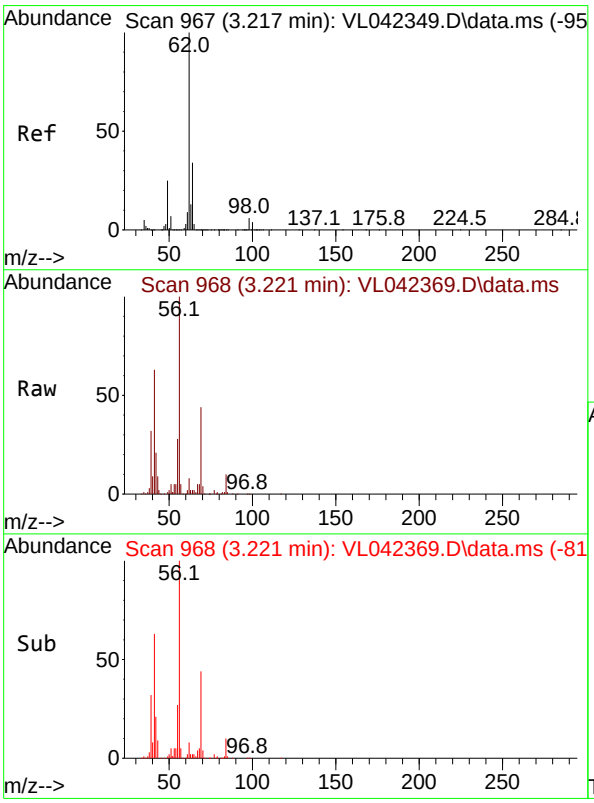
#36
Benzene
Concen: 1.894 ppbv
RT: 3.658 min Scan# 11
Delta R.T. 0.003 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025

Tgt Ion: 78 Resp: 67666

Ion	Ratio	Lower	Upper
78	100		
77	23.1	17.4	26.0
50	19.1	15.5	23.3

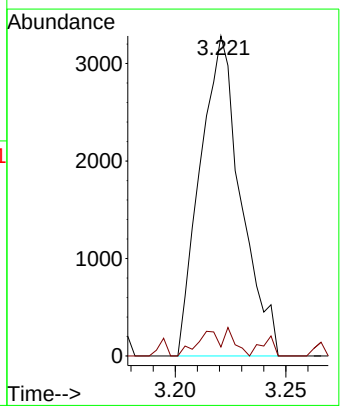


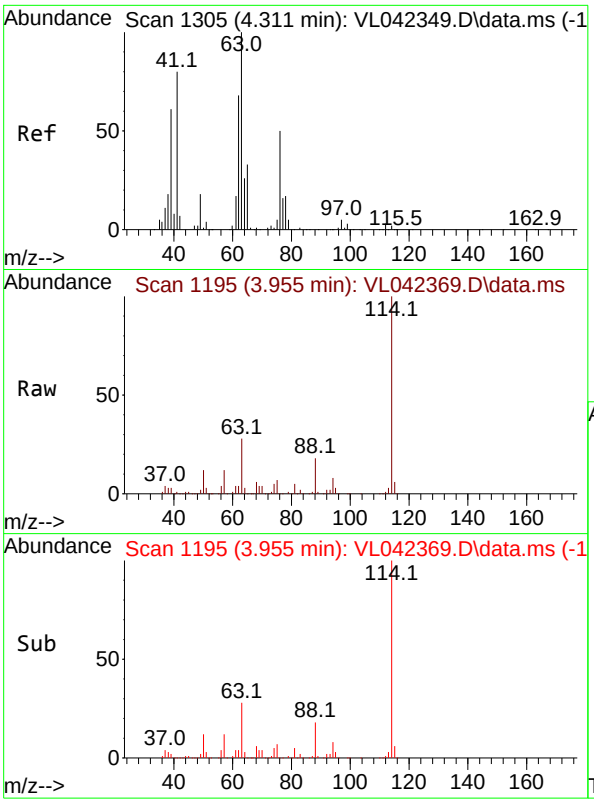


#37
1,2-Dichloroethane
Concen: 0.196 ppbv
RT: 3.221 min Scan# 968
Delta R.T. 0.003 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

Tgt Ion: 62 Resp: 4202

Ion	Ratio	Lower	Upper
62	100		
98	10.6	5.1	7.7#



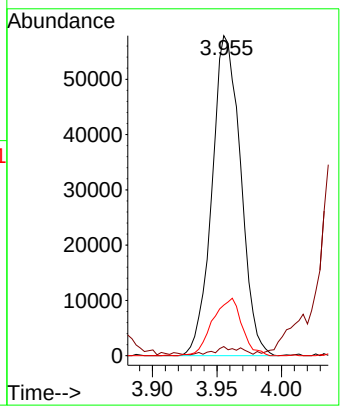


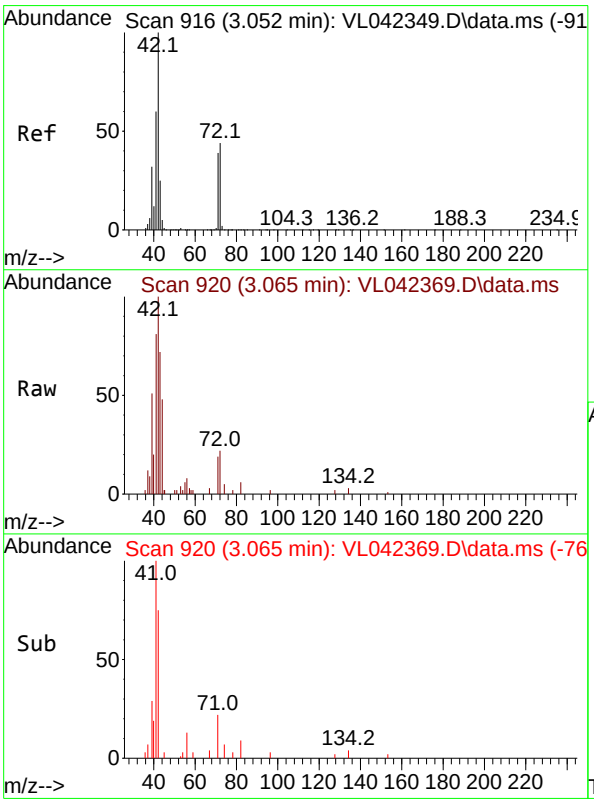
#39
1,2-Dichloropropane
Concen: 6.713 ppbv
RT: 3.955 min Scan# 11
Delta R.T. -0.356 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025

Tgt Ion: 63 Resp: 89351

Ion	Ratio	Lower	Upper
63	100		
41	2.1	64.2	96.2#
62	15.8	54.3	81.5#

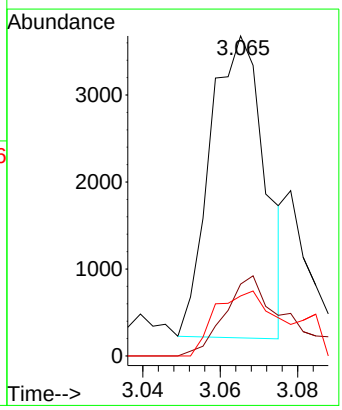


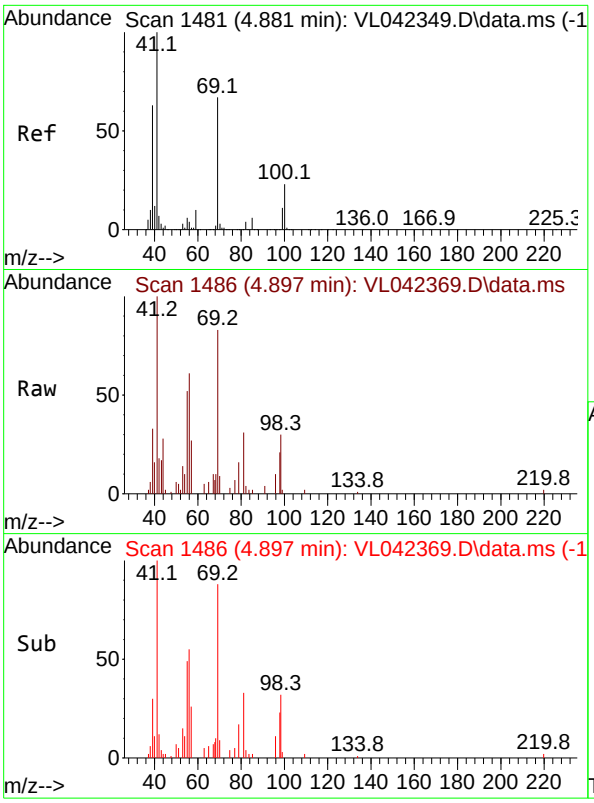


#41
Tetrahydrofuran
Concen: 0.224 ppbv
RT: 3.065 min Scan# 920
Delta R.T. 0.013 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

Tgt Ion: 42 Resp: 3416

Ion	Ratio	Lower	Upper
42	100		
72	29.9	32.3	48.5#
71	28.8	31.4	47.2#



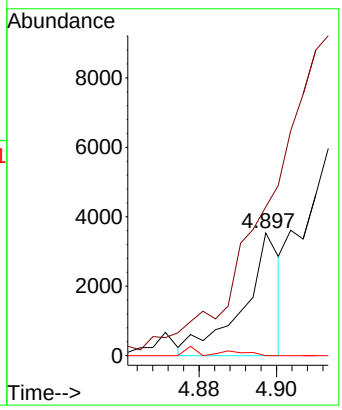


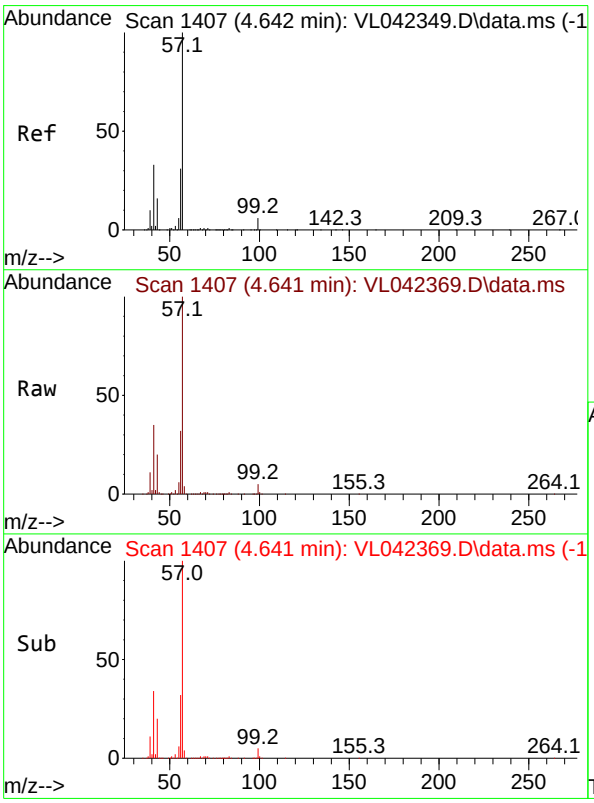
#43
Methyl Methacrylate
Concen: 0.145 ppbv
RT: 4.897 min Scan# 14
Delta R.T. 0.016 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025

Tgt Ion: 69 Resp: 2330

Ion	Ratio	Lower	Upper
69	100		
41	0.0	118.6	177.8#
100	0.0	28.2	42.2#

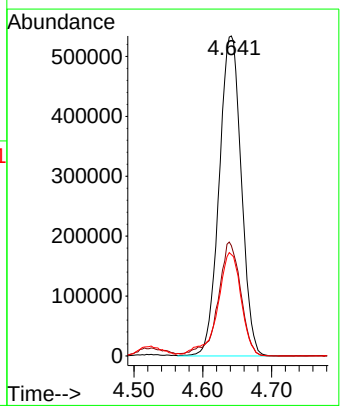


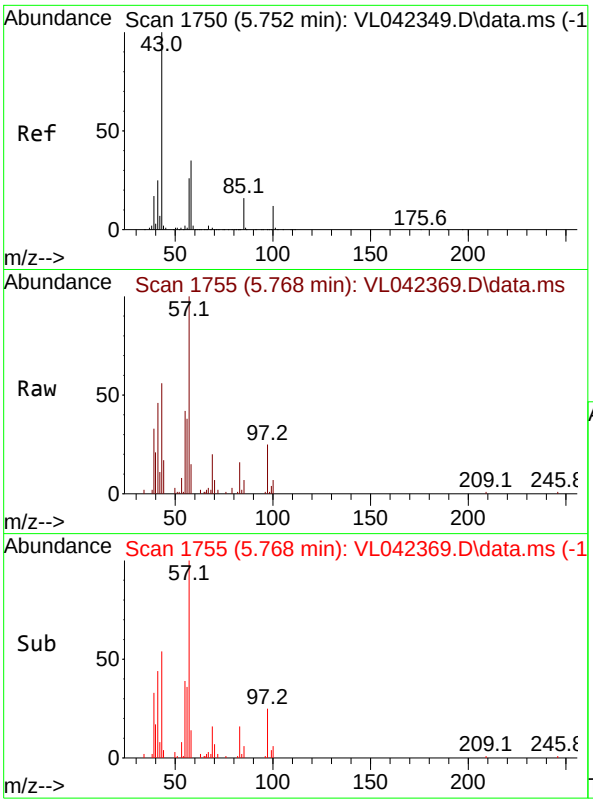


#44
2,2,4-Trimethylpentane
Concen: 19.331 ppbv
RT: 4.641 min Scan# 1407
Delta R.T. -0.000 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

Tgt Ion: 57 Resp: 1192538

Ion	Ratio	Lower	Upper
57	100		
41	36.7	27.2	40.8
56	34.7	25.7	38.5



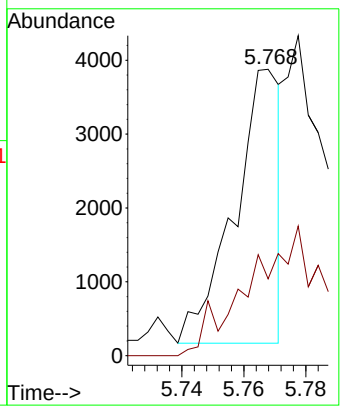


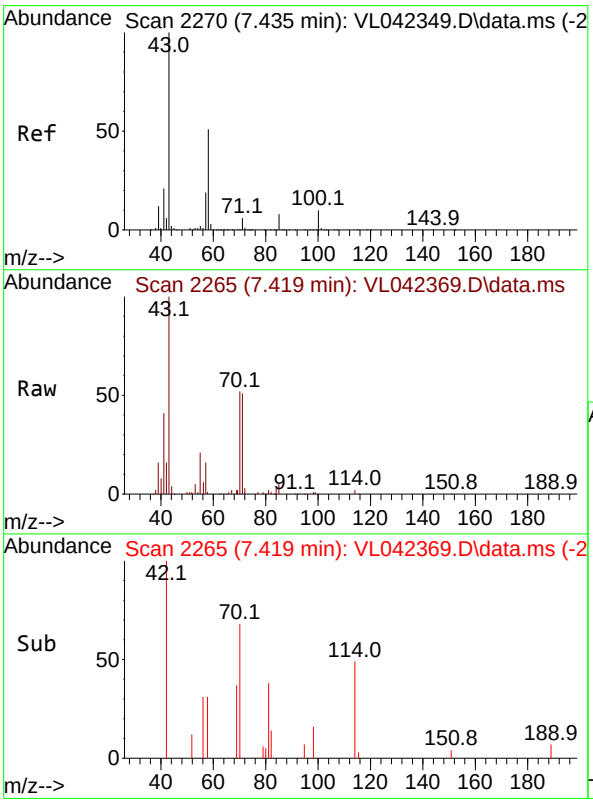
#50
4-Methyl-2-Pentanone
Concen: 0.087 ppbv
RT: 5.768 min Scan# 1
Delta R.T. 0.016 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025

Tgt Ion: 43 Resp: 3804

Ion	Ratio	Lower	Upper
43	100		
58	0.0	28.6	43.0#

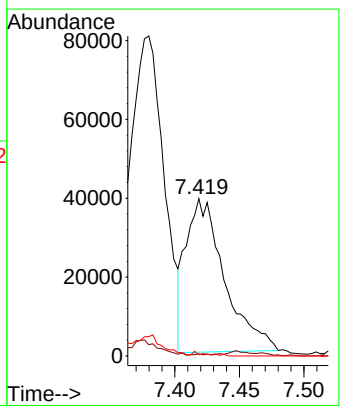


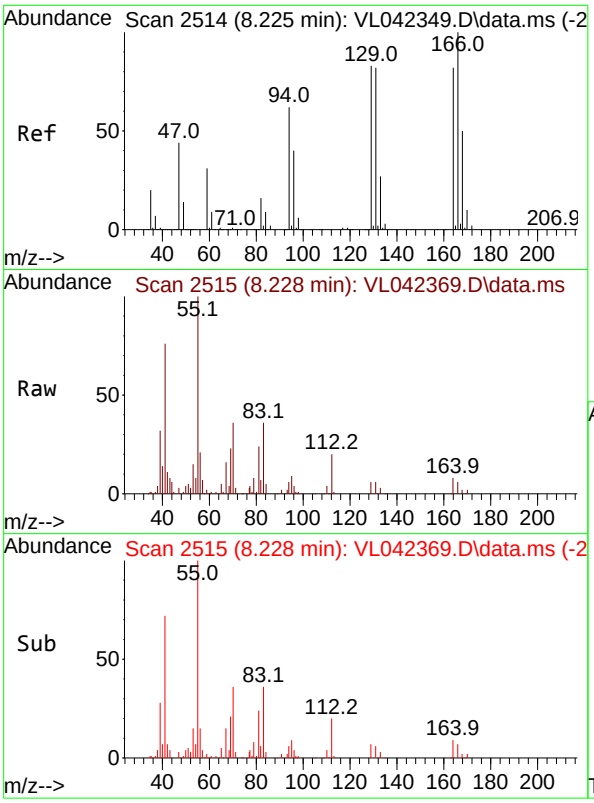


#51
2-Hexanone
Concen: 2.081 ppbv
RT: 7.419 min Scan# 2265
Delta R.T. -0.016 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

Tgt Ion: 43 Resp: 81232

Ion	Ratio	Lower	Upper
43	100		
58	2.9	40.2	60.4#
98	0.0	0.1	0.1#



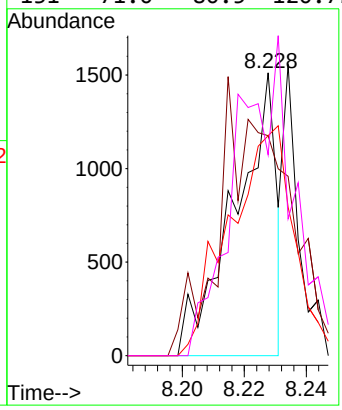


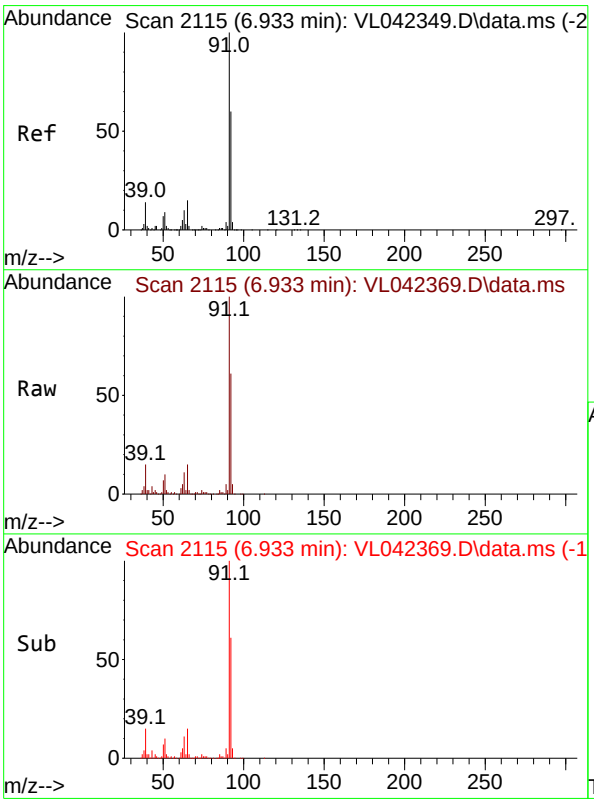
#52
Tetrachloroethene
Concen: 0.102 ppbv
RT: 8.228 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025

Tgt Ion:164 Resp: 1403

Ion	Ratio	Lower	Upper
164	100		
166	68.5	98.2	147.2#
129	77.8	81.8	122.8#
131	71.0	80.5	120.7#

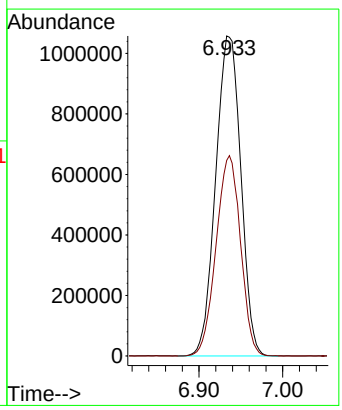


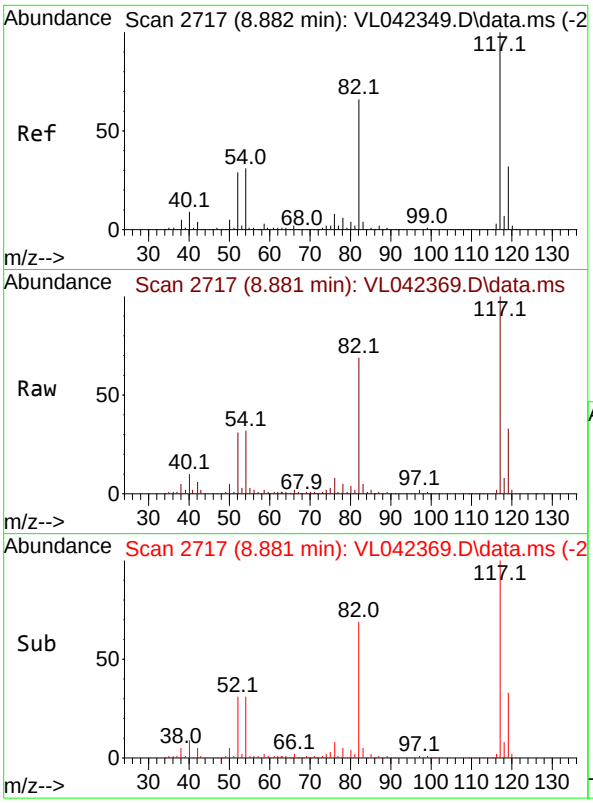


#53
Toluene
Concen: 51.432 ppbv
RT: 6.933 min Scan# 2115
Delta R.T. -0.000 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

Tgt Ion: 91 Resp: 2204506

Ion	Ratio	Lower	Upper
91	100		
92	60.8	48.2	72.4



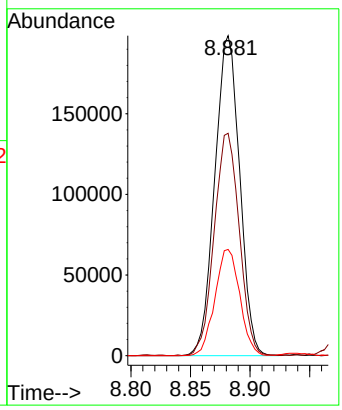


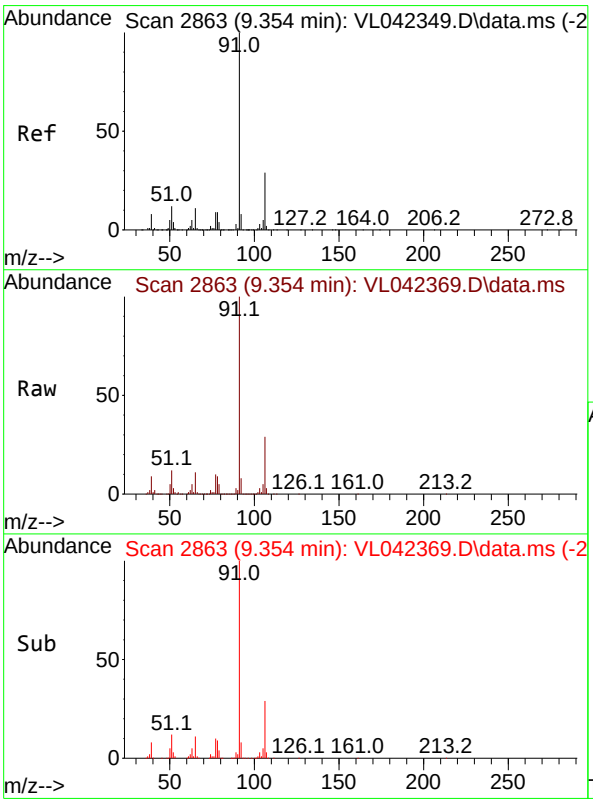
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.881 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025

Tgt Ion:117 Resp: 288378

Ion	Ratio	Lower	Upper
117	100		
82	70.2	57.8	86.6
119	33.2	25.2	37.8

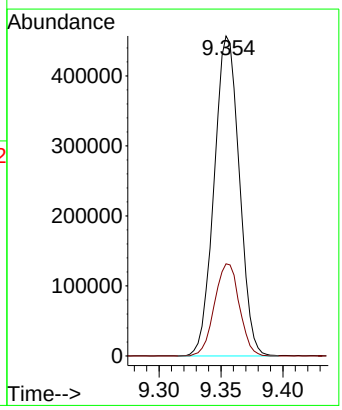


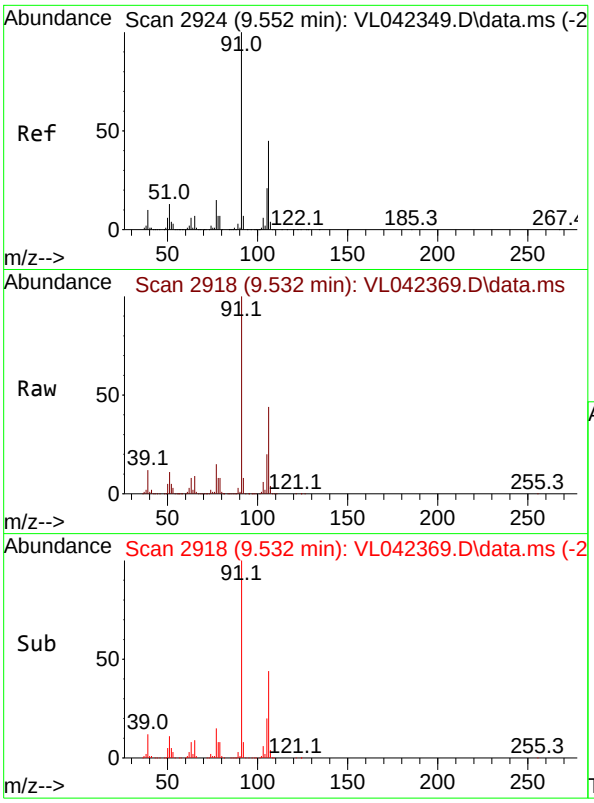


#58
Ethyl Benzene
Concen: 11.323 ppbv
RT: 9.354 min Scan# 2863
Delta R.T. -0.000 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

Tgt Ion: 91 Resp: 646931

Ion	Ratio	Lower	Upper
91	100		
106	28.8	23.0	34.4



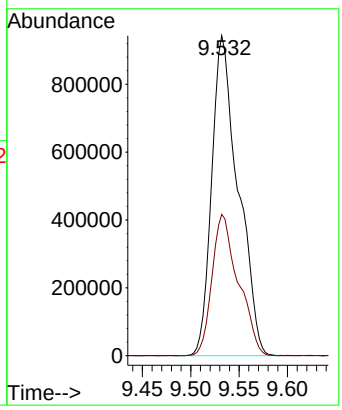


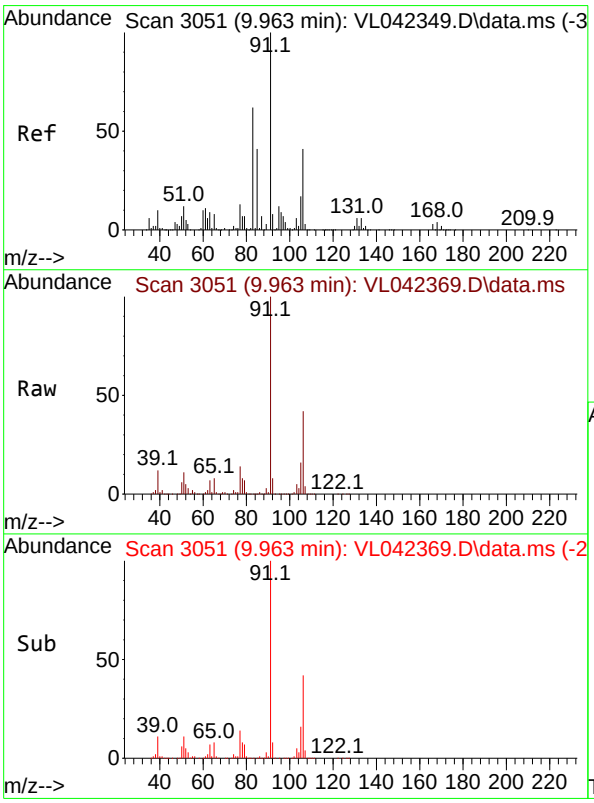
#59
m/p-Xylene
Concen: 38.886 ppbv
RT: 9.532 min Scan# 2
Delta R.T. -0.019 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025

Tgt Ion: 91 Resp: 1789840

Ion	Ratio	Lower	Upper
91	100		
106	44.0	35.4	53.2

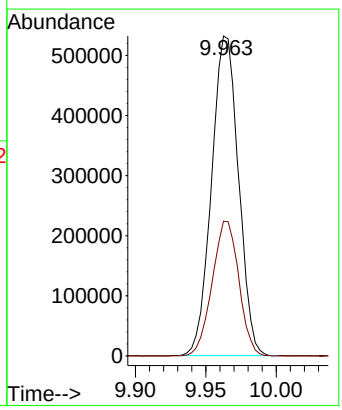


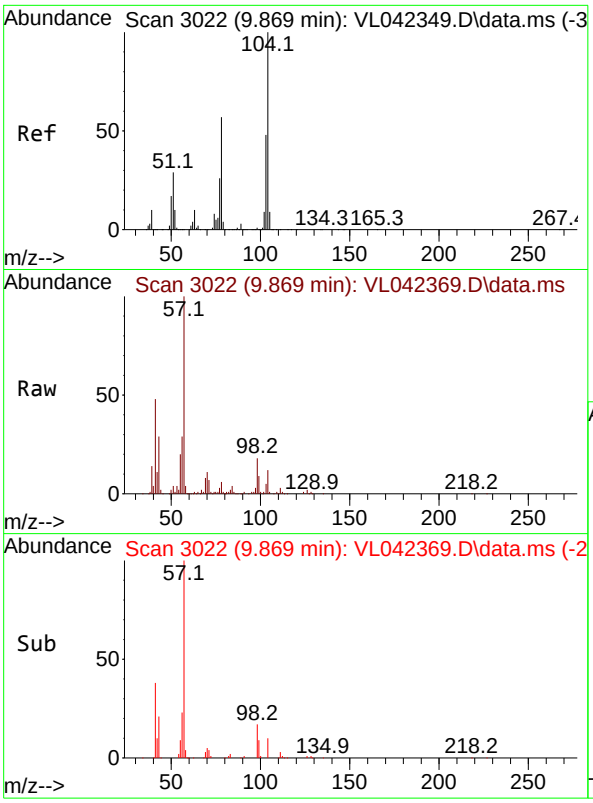


#60
o-Xylene
Concen: 15.308 ppbv
RT: 9.963 min Scan# 3051
Delta R.T. -0.000 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

Tgt Ion: 91 Resp: 709518

Ion	Ratio	Lower	Upper
91	100		
106	41.7	21.1	63.4



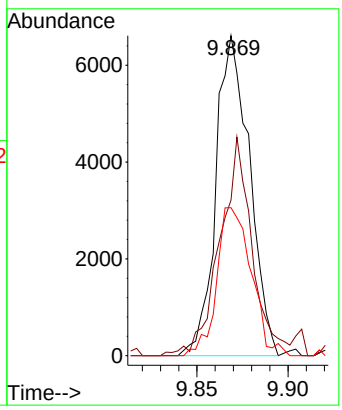


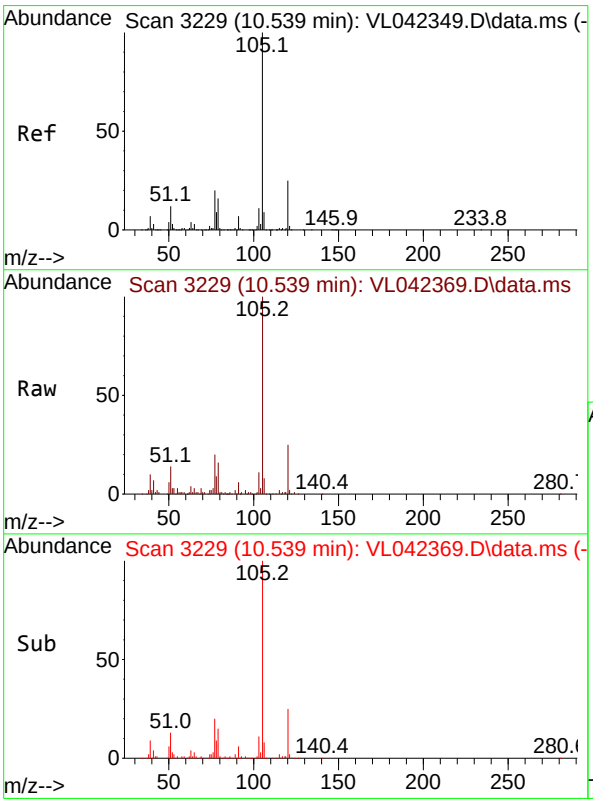
#61
Styrene
Concen: 0.384 ppbv
RT: 9.869 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025

Tgt Ion:104 Resp: 8504

Ion	Ratio	Lower	Upper
104	100		
78	67.3	44.6	66.8#
103	47.5	37.4	56.0

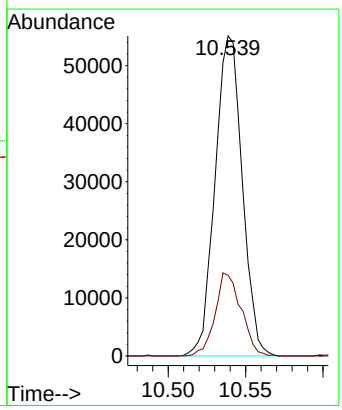


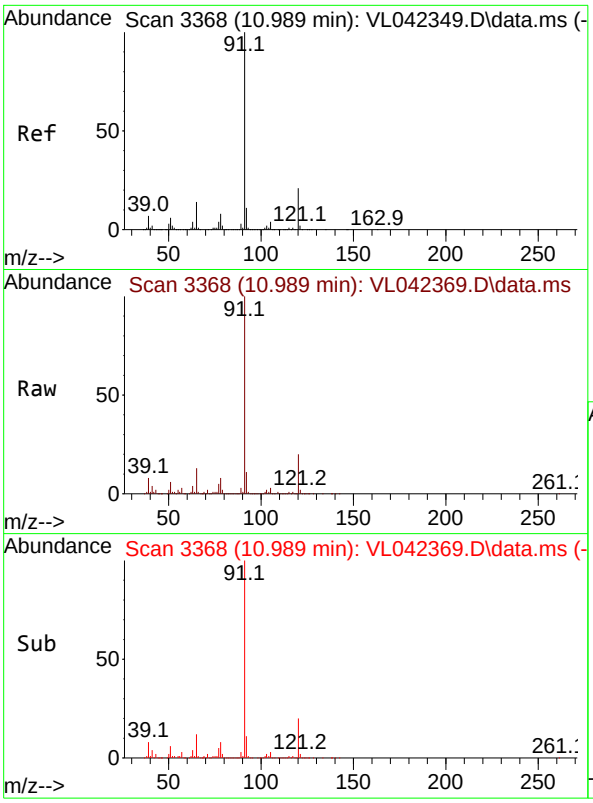


#62
Isopropylbenzene
Concen: 0.989 ppbv
RT: 10.539 min Scan# 3229
Delta R.T. -0.000 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

Tgt Ion:105 Resp: 67289

Ion	Ratio	Lower	Upper
105	100		
120	24.8	19.8	29.8



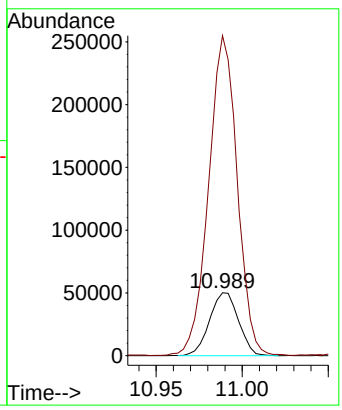


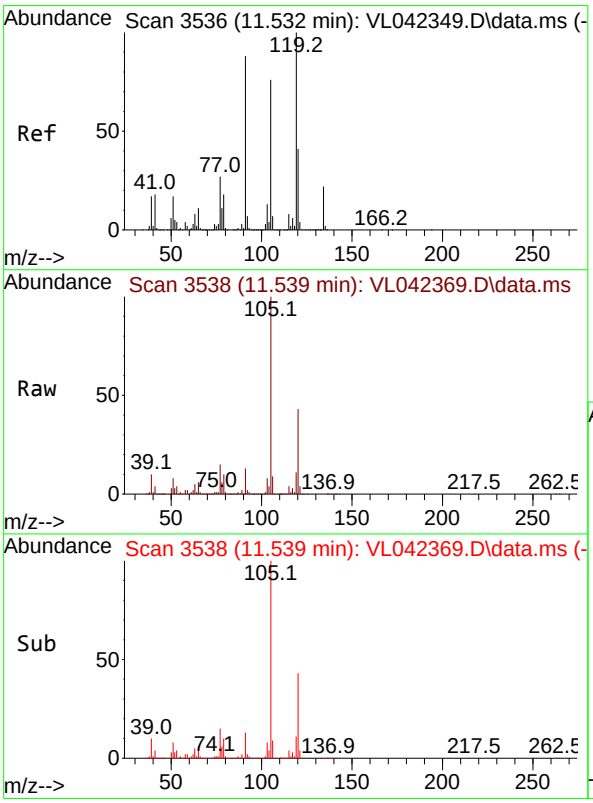
#64
n-propylbenzene
Concen: 3.428 ppbv
RT: 10.989 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025

Tgt Ion:120 Resp: 58634

Ion	Ratio	Lower	Upper
120	100		
91	503.2	392.4	588.6

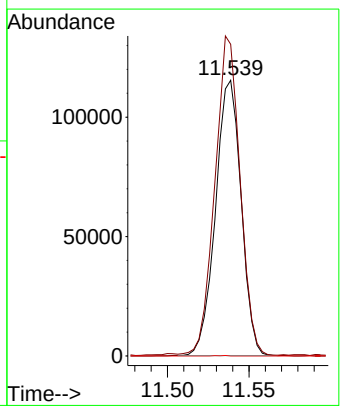


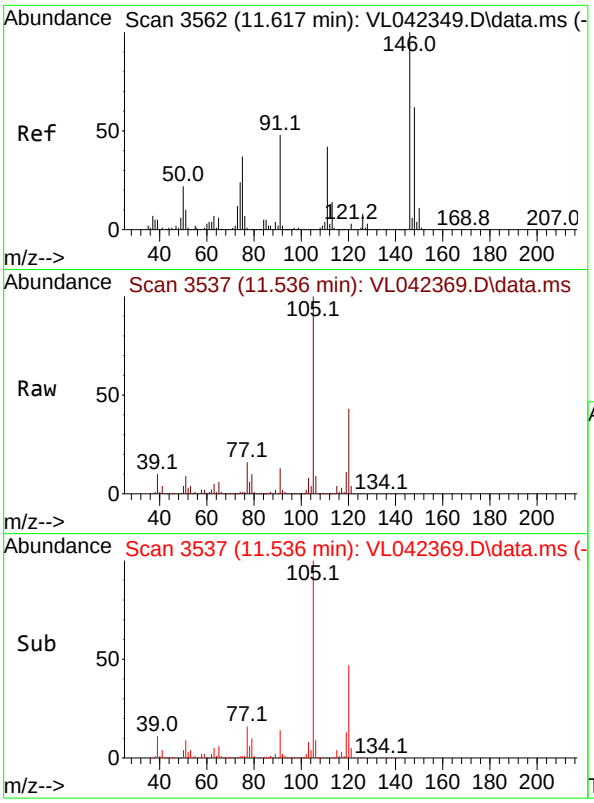


#65
tert-Butylbenzene
Concen: 2.015 ppbv
RT: 11.539 min Scan# 3538
Delta R.T. 0.006 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

Tgt Ion:119 Resp: 126017

Ion	Ratio	Lower	Upper
119	100		
91	115.1	74.6	111.8#
134	0.0	18.8	28.2#



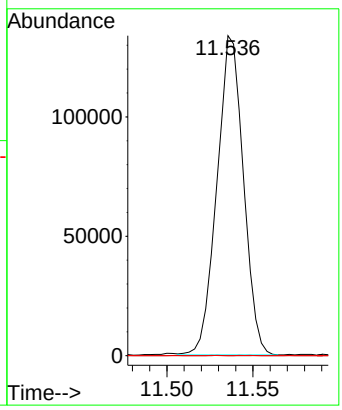


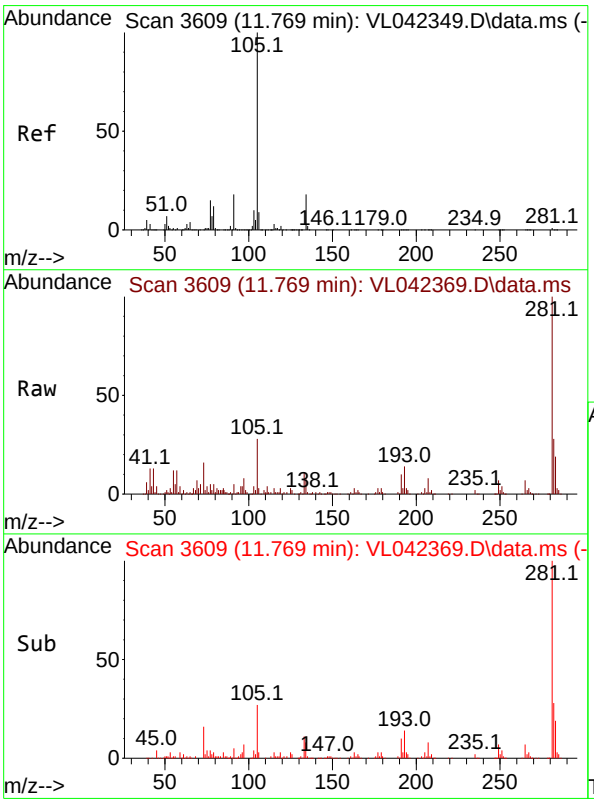
#66
Benzyl Chloride
Concen: 20.811 ppbv
RT: 11.536 min Scan# 3
Delta R.T. -0.081 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025

Tgt Ion: 91 Resp: 143029

Ion	Ratio	Lower	Upper
91	100		
126	0.0	11.8	17.6#
128	0.1	4.5	6.7#

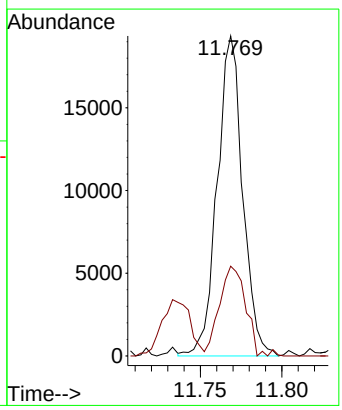


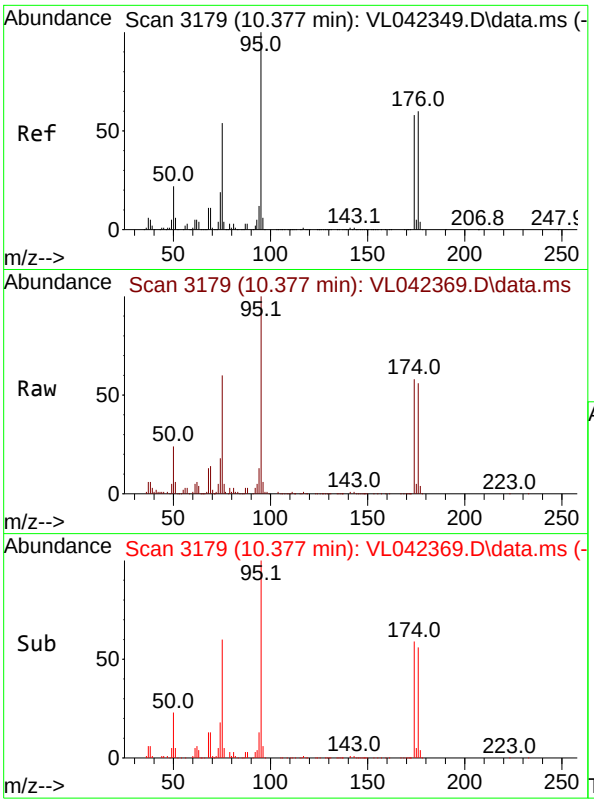


#67
sec-Butylbenzene
Concen: 0.241 ppbv
RT: 11.769 min Scan# 3609
Delta R.T. -0.000 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

Tgt Ion:105 Resp: 20996

Ion	Ratio	Lower	Upper
105	100		
134	28.2	14.6	21.8#



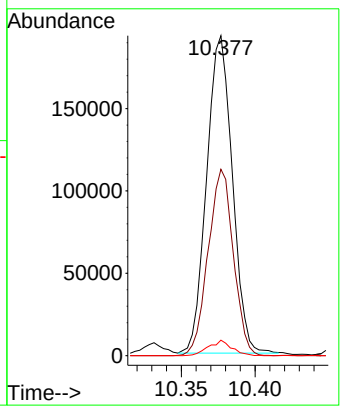


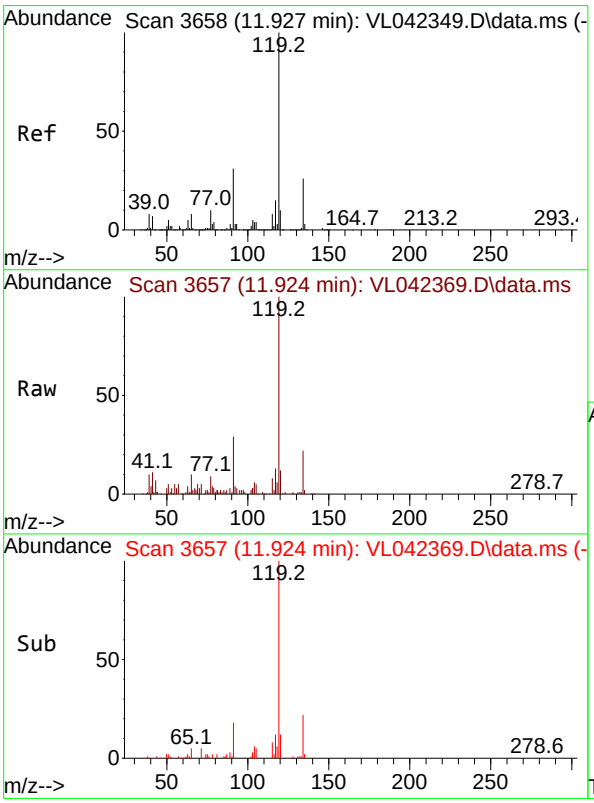
#68
1-Bromo-4-Fluorobenzene
Concen: 9.845 ppbv
RT: 10.377 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025

Tgt Ion: 95 Resp: 233305

Ion	Ratio	Lower	Upper
95	100		
174	57.7	48.5	72.7
175	4.4	3.7	5.5

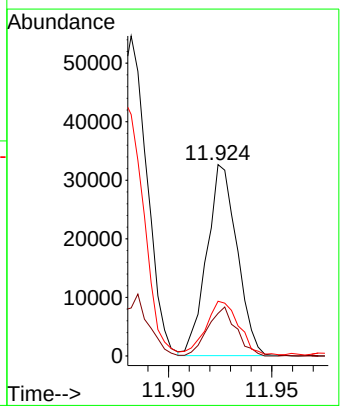


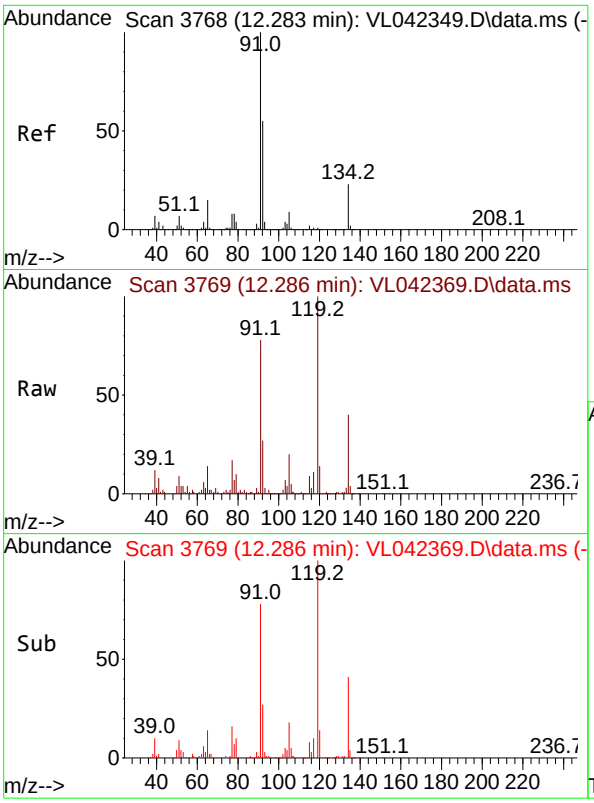


#69
p-Isopropyltoluene
Concen: 0.440 ppbv
RT: 11.924 min Scan# 3657
Delta R.T. -0.003 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

Tgt Ion:119 Resp: 33273

Ion	Ratio	Lower	Upper
119	100		
134	24.2	20.0	30.0
91	29.1	24.4	36.6



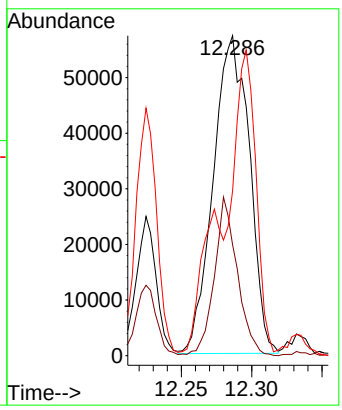


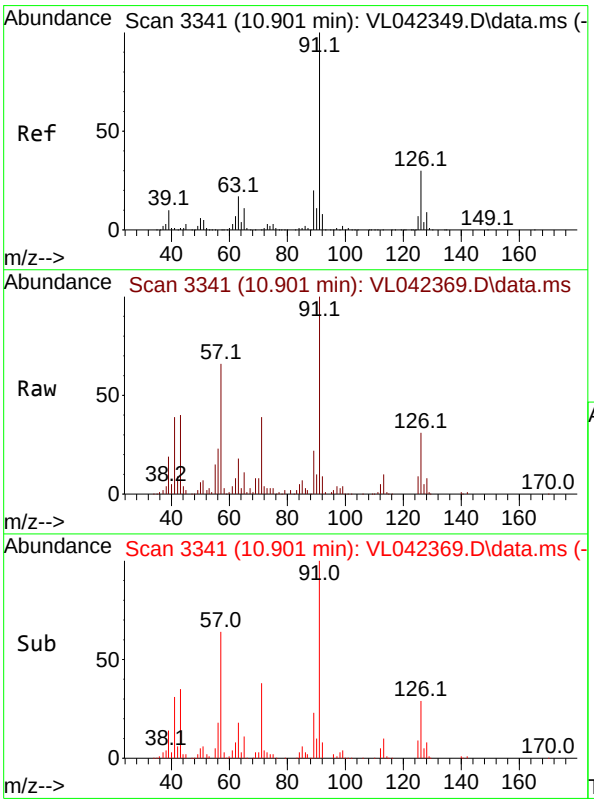
#70
n-Butylbenzene
Concen: 1.298 ppbv
RT: 12.286 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025

Tgt Ion: 91 Resp: 102145

Ion	Ratio	Lower	Upper
91	100		
92	31.6	44.2	66.4#
134	91.7	18.2	27.4#

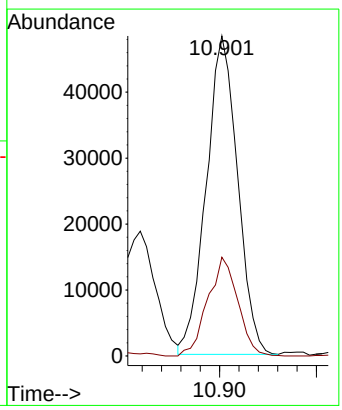


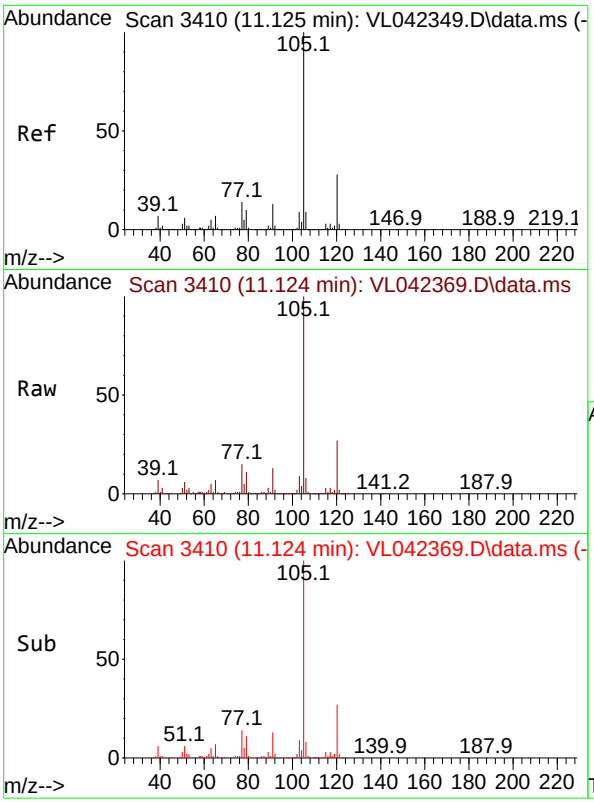


#71
2-Chlorotoluene
Concen: 1.015 ppbv
RT: 10.901 min Scan# 3341
Delta R.T. -0.000 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

Tgt Ion: 91 Resp: 54169

Ion	Ratio	Lower	Upper
91	100		
126	29.8	11.4	45.4



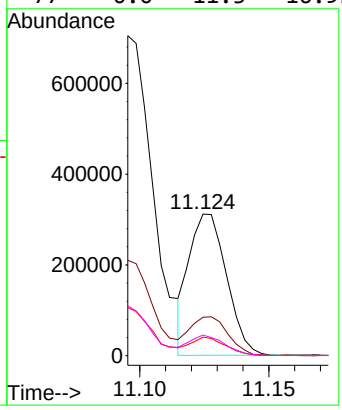


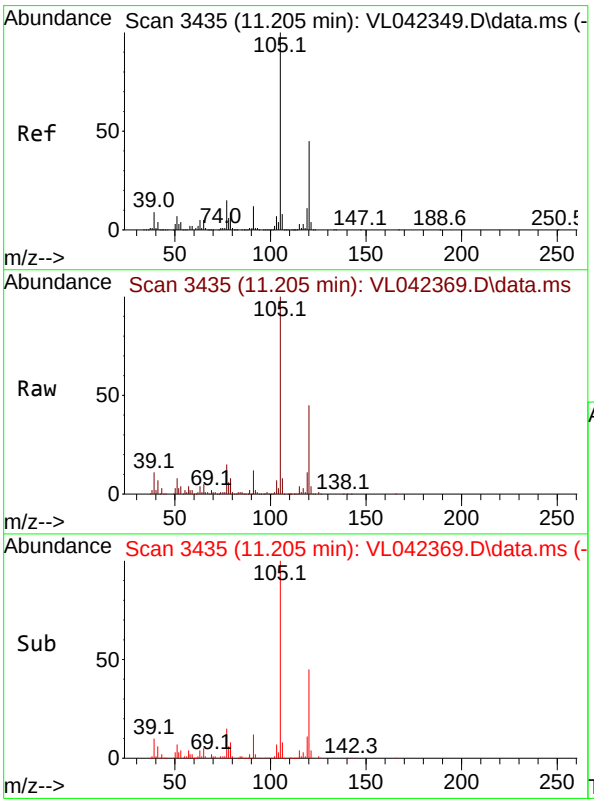
#72
4-Ethyltoluene
Concen: 5.540 ppbv
RT: 11.124 min Scan# 34
Delta R.T. -0.000 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025

Tgt Ion:105 Resp: 313941

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#

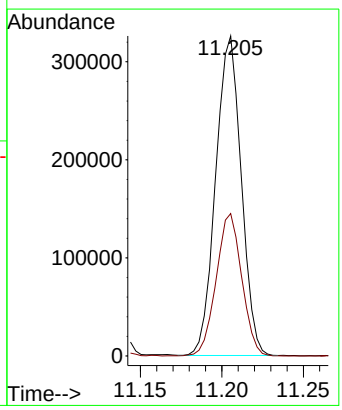


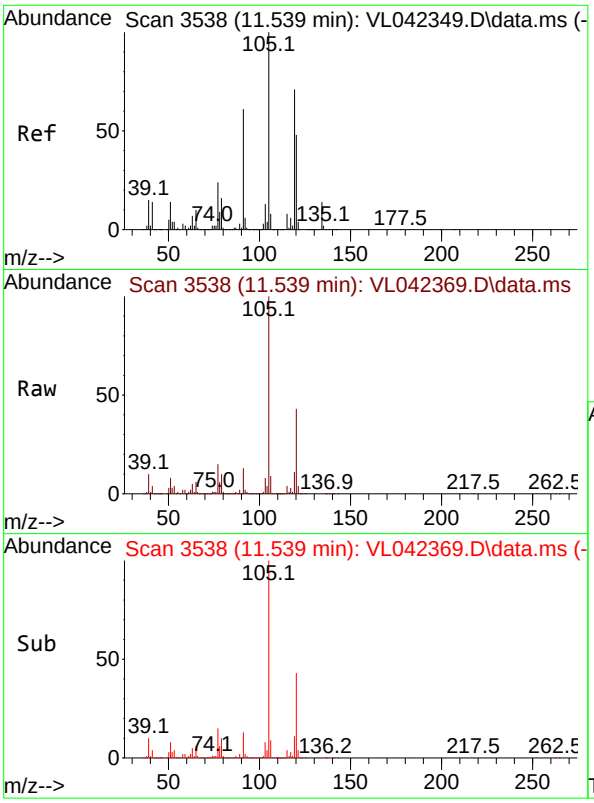


#73
1,3,5-Trimethylbenzene
Concen: 7.091 ppbv
RT: 11.205 min Scan# 3435
Delta R.T. -0.000 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

Tgt Ion:105 Resp: 354735

Ion	Ratio	Lower	Upper
105	100		
120	44.5	35.6	53.4



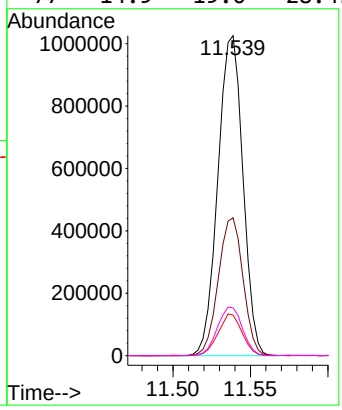


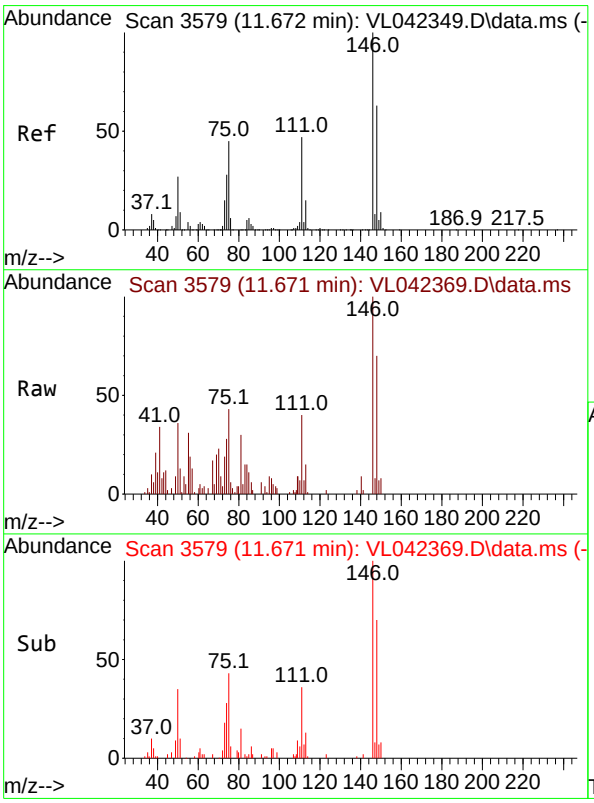
#74
1,2,4-Trimethylbenzene
Concen: 19.707 ppbv
RT: 11.539 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025

Tgt Ion:105 Resp: 1151476

Ion	Ratio	Lower	Upper
105	100		
120	43.1	38.1	57.1
91	12.7	48.8	73.2#
77	14.9	19.0	28.4#

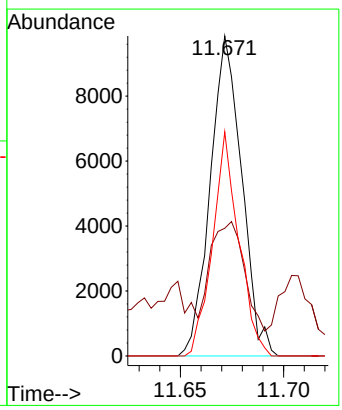


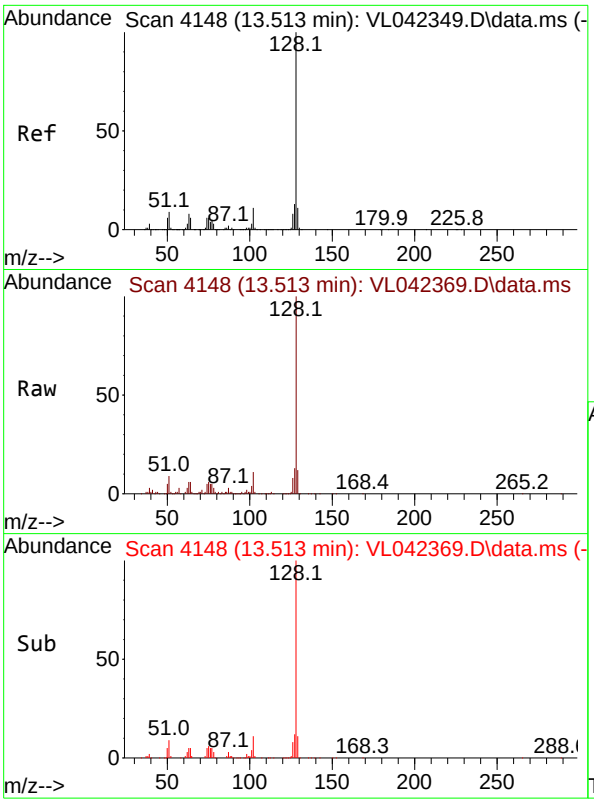


#76
1,4-Dichlorobenzene
Concen: 0.342 ppbv
RT: 11.671 min Scan# 3579
Delta R.T. -0.000 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

Tgt Ion:146 Resp: 10434

Ion	Ratio	Lower	Upper
146	100		
111	120.7	24.2	72.6#
148	58.5	32.1	96.5



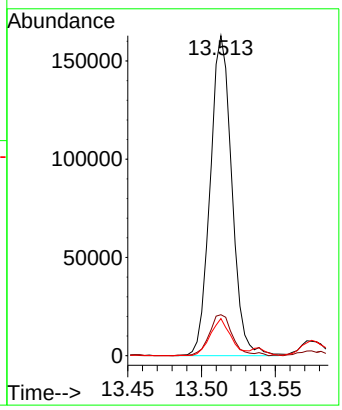


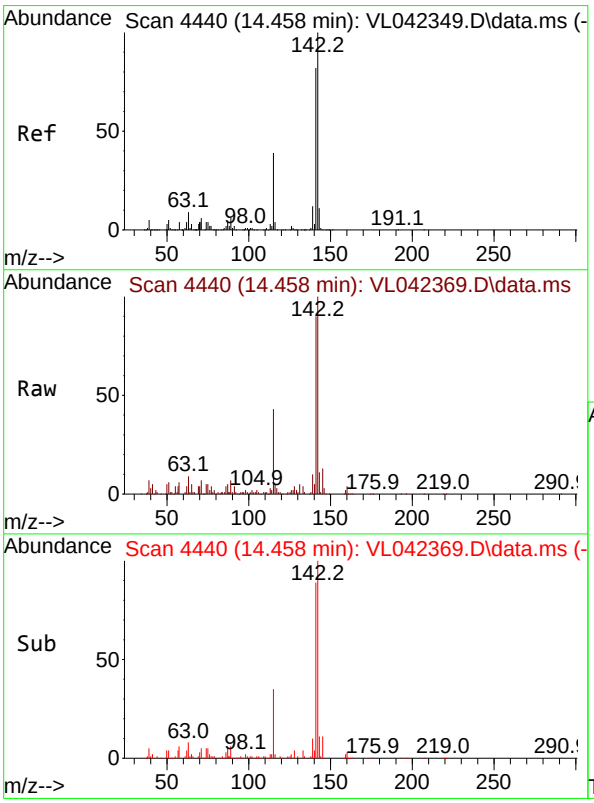
#79
Naphthalene
Concen: 2.380 ppbv
RT: 13.513 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025

Tgt Ion:128 Resp: 166277

Ion	Ratio	Lower	Upper
128	100		
127	12.6	10.6	15.8
129	11.5	8.6	12.8

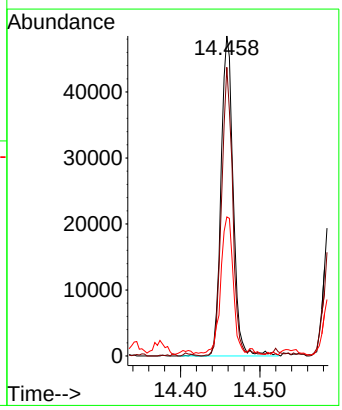




#80
Naphthalene,2-methyl-
Concen: 1.280 ppbv
RT: 14.458 min Scan# 4440
Delta R.T. -0.000 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

Tgt Ion:142 Resp: 50980

Ion	Ratio	Lower	Upper
142	100		
141	83.1	66.8	100.2
115	47.9	33.4	50.2



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042370.D
Acq On : 17 Apr 2025 22:19
Operator : SY/MD
Sample : Q1726-05
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025

Quant Time: Apr 18 02:45:15 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	113751	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.959	114	331268	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.882	117	291013	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.377	95	238323	9.966	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 99.700%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.499	85	10027	0.499	ppbv		94
3) Chlorodifluoromethane	1.466	51	84256	4.403	ppbv	#	60
4) Chloromethane	1.534	50	5131	0.645	ppbv		99
6) Bromomethane	1.667	94	152	0.041	ppbv	#	81
9) Propene	1.560	41	123047	14.118	ppbv		97
10) Heptane	4.978	43	117936	4.816	ppbv		99
11) Trichlorofluoromethane	1.878	101	4815	0.252	ppbv		98
12) 1,1,2-Trichlorotrifluo...	2.140	101	1339	0.086	ppbv		96
13) Ethanol	1.722	45	389165	280.929	ppbv		76
15) Acetone	1.835	43	3179147	170.726	ppbv	#	41
16) 1,3-Butadiene	1.622	39	38083	4.276	ppbv	#	14
17) tert-Butyl alcohol	2.272	59	39766	1.723	ppbv		99
19) Isopropyl Alcohol	1.887	45	379189	36.656	ppbv	#	33
20) Methylene Chloride	2.062	84	19314	2.648	ppbv		94
21) Allyl Chloride	2.043	41	4157	0.323	ppbv	#	22
23) Vinyl Acetate	2.473	43	56038	7.435	ppbv	#	51
25) Ethyl Acetate	2.826	43	68589	1.494	ppbv	#	81
26) Hexane	2.826	57	72332	3.893	ppbv	#	40
27) Carbon Disulfide	2.153	76	1238	0.062	ppbv	#	50
28) Methyl tert-Butyl Ether	2.441	73	537	0.044	ppbv	#	48
29) Chloroform	2.845	83	2448	0.093	ppbv		96
30) Cyclohexane	3.852	84	10233	0.681	ppbv	#	1
34) 2-Butanone	2.560	43	30710	1.172	ppbv		97
35) Carbon Tetrachloride	3.761	117	2547	0.085	ppbv	#	65
36) Benzene	3.654	78	46043	1.289	ppbv		96
37) 1,2-Dichloroethane	3.221	62	3831	0.179	ppbv	#	94
39) 1,2-Dichloropropane	3.959	63	87012	6.535	ppbv	#	22
41) Tetrahydrofuran	3.062	42	1920	0.126	ppbv	#	35
44) 2,2,4-Trimethylpentane	4.642	57	746896	12.103	ppbv		97
50) 4-Methyl-2-Pentanone	5.768	43	3714	0.085	ppbv	#	15
51) 2-Hexanone	7.422	43	38587	0.988	ppbv	#	27
52) Tetrachloroethene	8.221	164	1269	0.092	ppbv	#	66
53) Toluene	6.933	91	1320170	30.789	ppbv		100
58) Ethyl Benzene	9.354	91	360069	6.245	ppbv		99
59) m/p-Xylene	9.532	91	1004159	21.619	ppbv		100
60) o-Xylene	9.966	91	393388	8.410	ppbv		99
61) Styrene	9.872	104	8391	0.376	ppbv		95
62) Isopropylbenzene	10.539	105	39493	0.575	ppbv		95
64) n-propylbenzene	10.989	120	32073	1.858	ppbv		96
65) tert-Butylbenzene	11.536	119	58794	0.932	ppbv	#	74
66) Benzyl Chloride	11.536	91	66566	9.598	ppbv	#	70
67) sec-Butylbenzene	11.769	105	11229	0.128	ppbv	#	62
69) p-Isopropyltoluene	11.924	119	18095	0.237	ppbv		99

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042370.D
Acq On : 17 Apr 2025 22:19
Operator : SY/MD
Sample : Q1726-05
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025

Quant Time: Apr 18 02:45:15 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

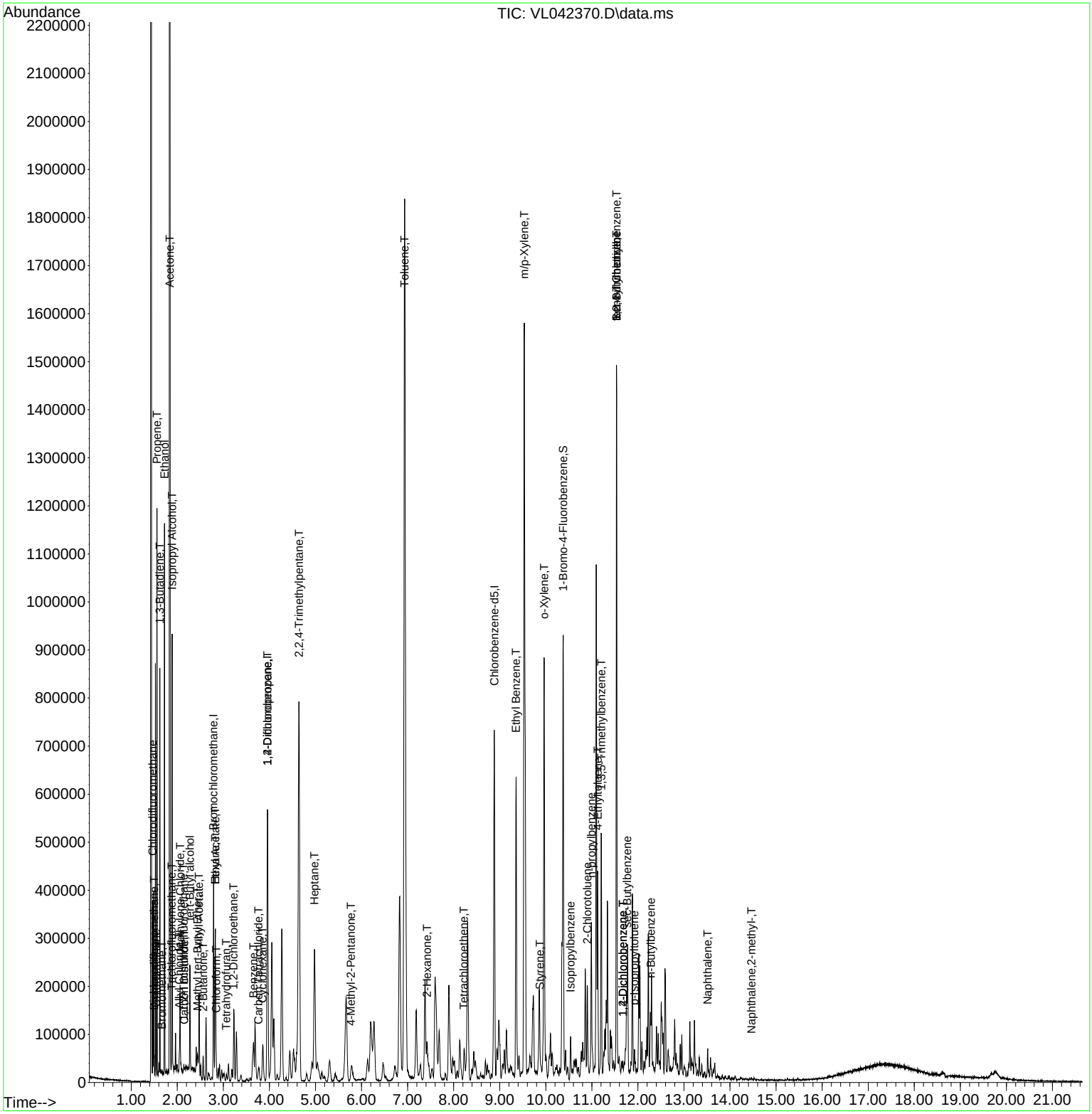
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
70) n-Butylbenzene	12.283	91	43525	0.548	ppbv	#	42
71) 2-Chlorotoluene	10.905	91	42867	0.796	ppbv		97
72) 4-Ethyltoluene	11.128	105	178872	3.128	ppbv	#	56
73) 1,3,5-Trimethylbenzene	11.206	105	173796	3.443	ppbv		98
74) 1,2,4-Trimethylbenzene	11.536	105	550459	9.336	ppbv	#	63
76) 1,4-Dichlorobenzene	11.672	146	4575	0.149	ppbv		87
77) 1,2-Dichlorobenzene	11.672	146	4575	0.154	ppbv		94
79) Naphthalene	13.513	128	25684	0.364	ppbv		97
80) Naphthalene,2-methyl-	14.465	142	1496	0.037	ppbv	#	81

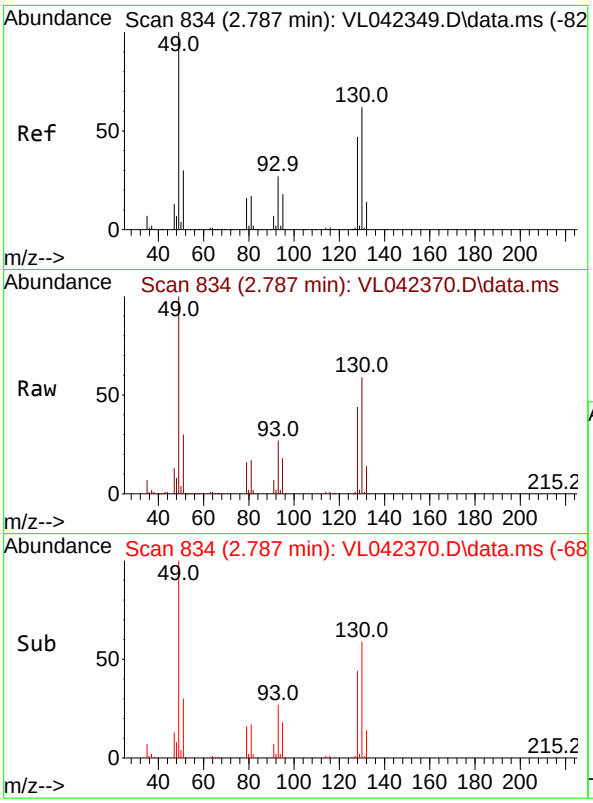
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042370.D
Acq On : 17 Apr 2025 22:19
Operator : SY/MD
Sample : Q1726-05
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025

Quant Time: Apr 18 02:45:15 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



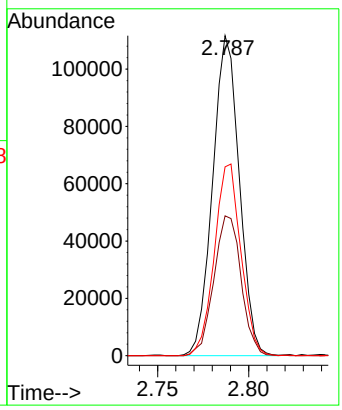


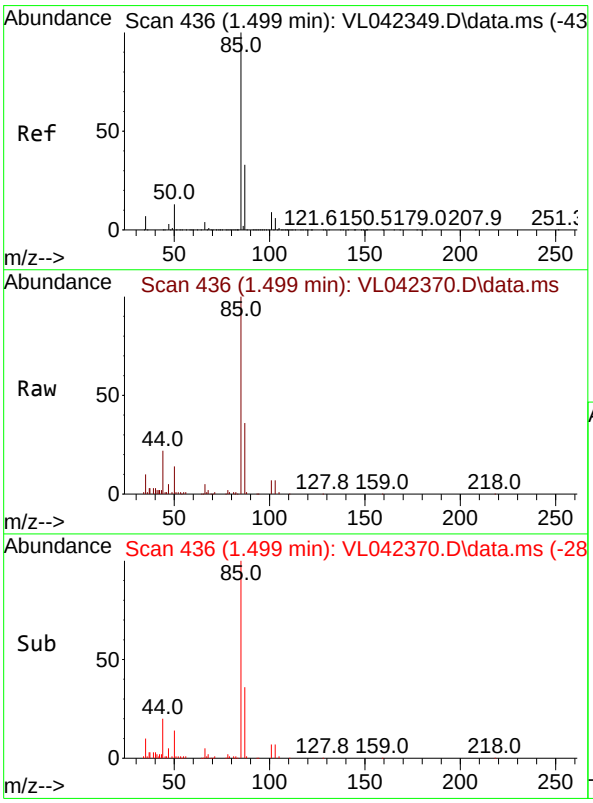
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 8
Delta R.T. 0.000 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025

Tgt Ion: 49 Resp: 113751

Ion	Ratio	Lower	Upper
49	100		
128	44.7	22.8	68.4
130	59.5	29.3	88.0

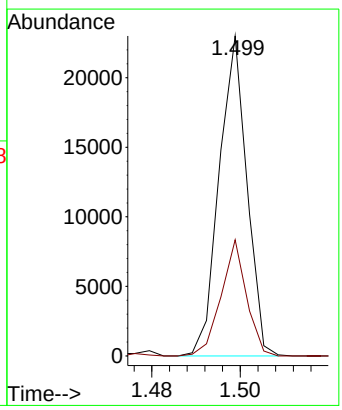


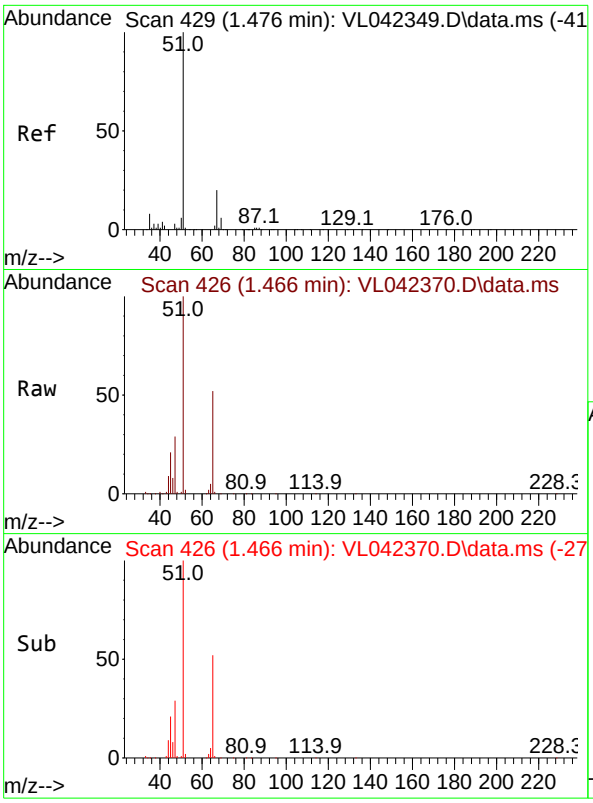


#2
Dichlorodifluoromethane
Concen: 0.499 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.000 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

Tgt Ion: 85 Resp: 10027

Ion	Ratio	Lower	Upper
85	100		
87	36.3	26.6	39.8



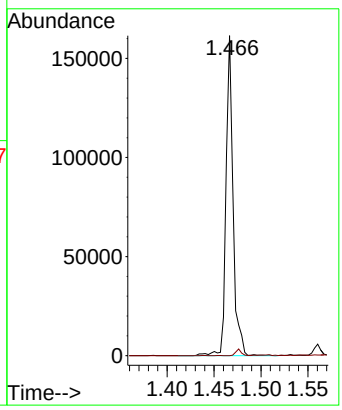


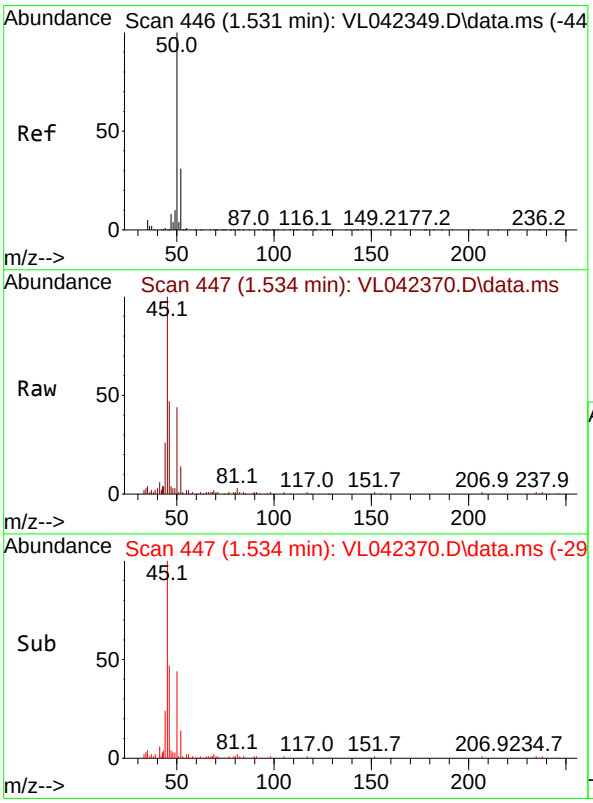
#3
Chlorodifluoromethane
Concen: 4.403 ppbv
RT: 1.466 min Scan# 4
Delta R.T. -0.010 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025

Tgt Ion: 51 Resp: 84256

Ion	Ratio	Lower	Upper
51	100		
67	1.9	16.2	24.4#

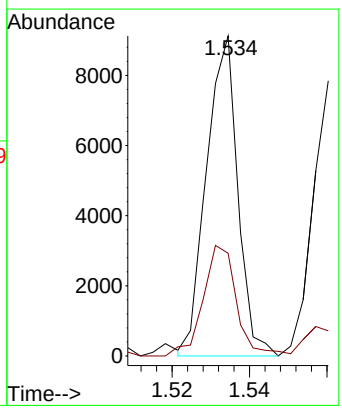


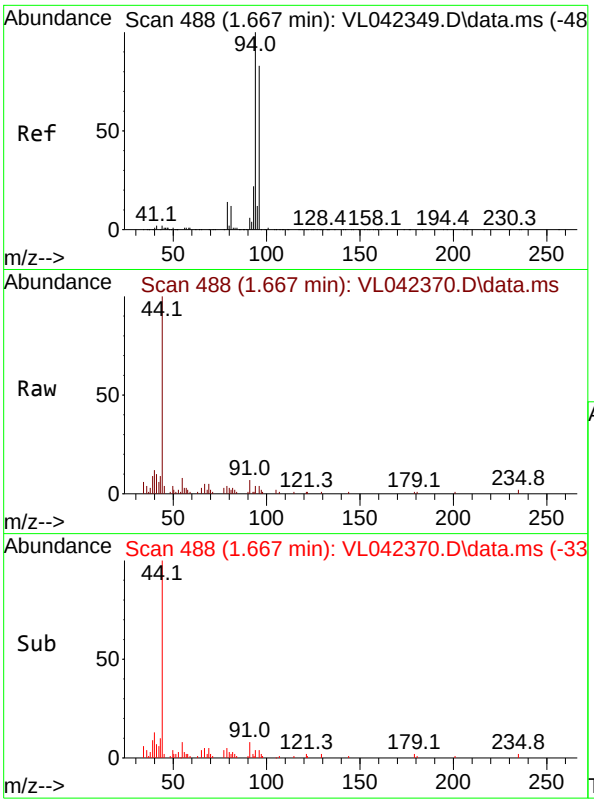


#4
Chloromethane
Concen: 0.645 ppbv
RT: 1.534 min Scan# 447
Delta R.T. 0.003 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

Tgt Ion: 50 Resp: 5131

Ion	Ratio	Lower	Upper
50	100		
52	31.2	24.7	37.1



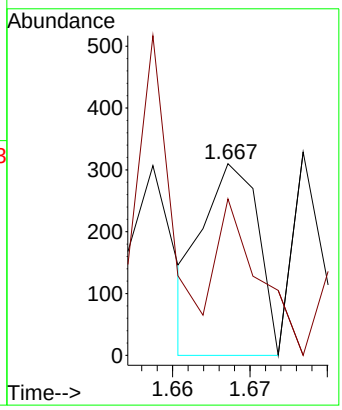


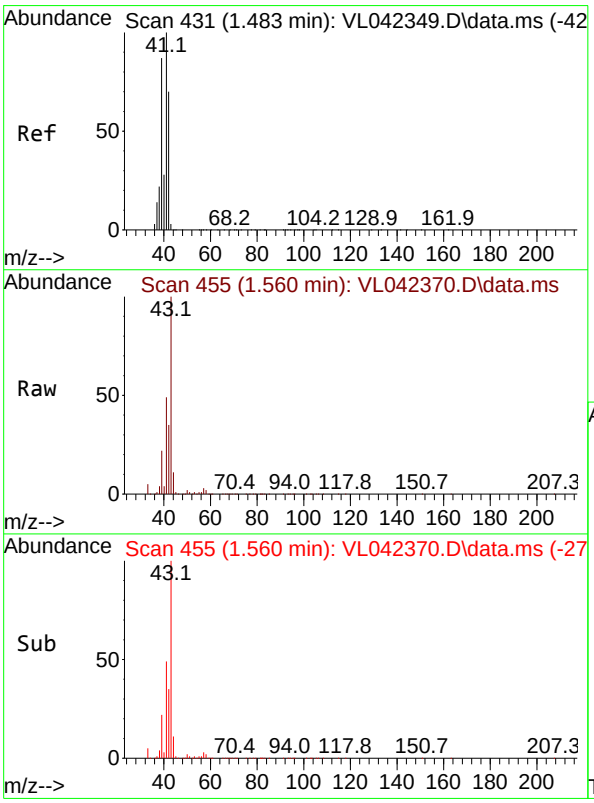
#6
Bromomethane
Concen: 0.041 ppbv
RT: 1.667 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025

Tgt Ion: 94 Resp: 152

Ion	Ratio	Lower	Upper
94	100		
96	65.8	66.2	99.2#

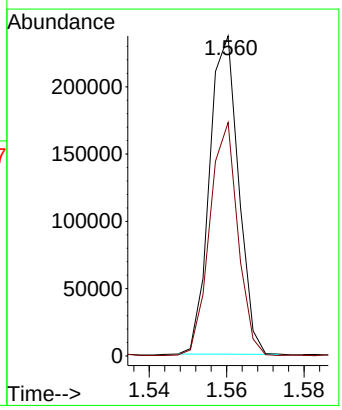


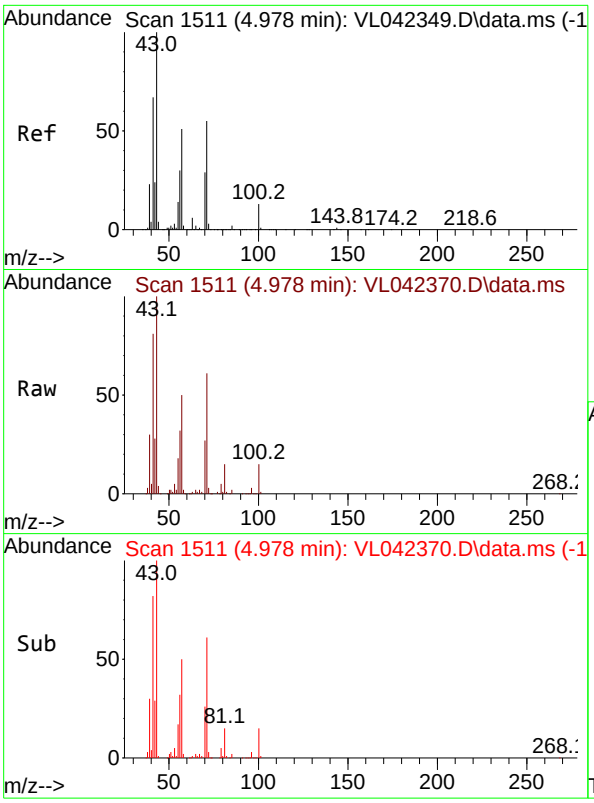


#9
Propene
Concen: 14.118 ppbv
RT: 1.560 min Scan# 455
Delta R.T. 0.078 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

Tgt Ion: 41 Resp: 123047

Ion	Ratio	Lower	Upper
41	100		
42	73.1	56.2	84.4



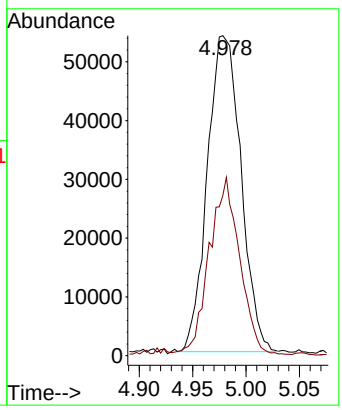


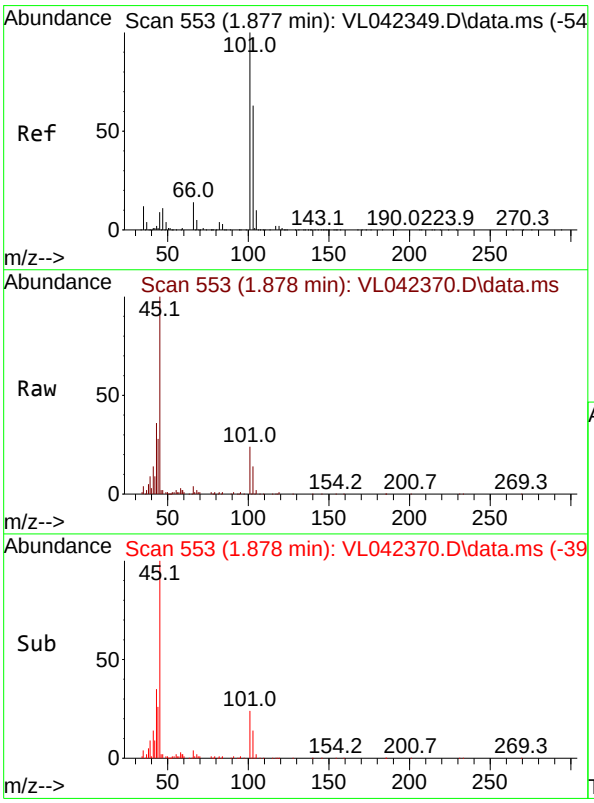
#10
Heptane
Concen: 4.816 ppbv
RT: 4.978 min Scan# 1
Delta R.T. 0.000 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025

Tgt Ion: 43 Resp: 117936

Ion	Ratio	Lower	Upper
43	100		
57	50.5	39.9	59.9

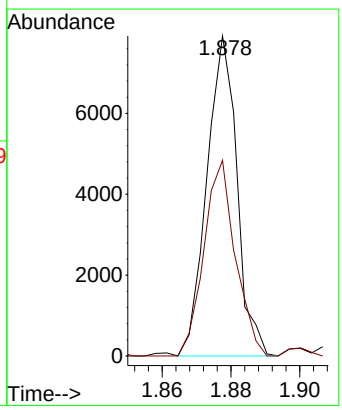


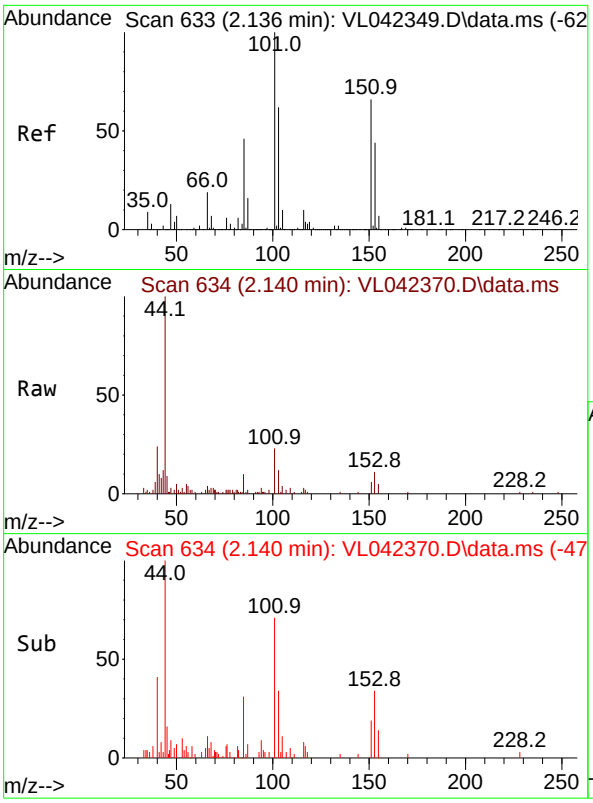


#11
Trichlorofluoromethane
Concen: 0.252 ppbv
RT: 1.878 min Scan# 553
Delta R.T. 0.000 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

Tgt Ion:101 Resp: 4815

Ion	Ratio	Lower	Upper
101	100		
103	61.2	50.1	75.1



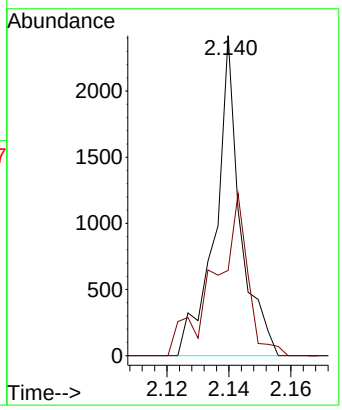


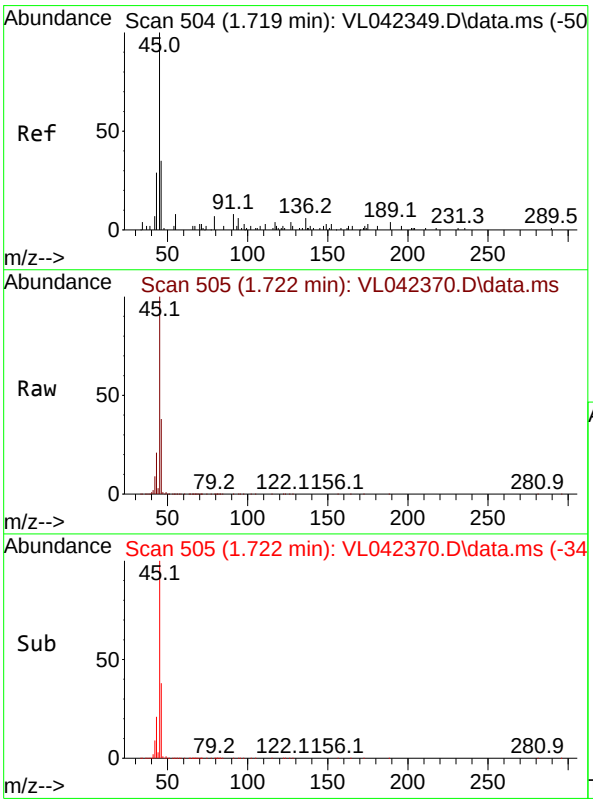
#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.086 ppbv
RT: 2.140 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025

Tgt Ion:101 Resp: 1339

Ion	Ratio	Lower	Upper
101	100		
151	67.6	57.0	85.6

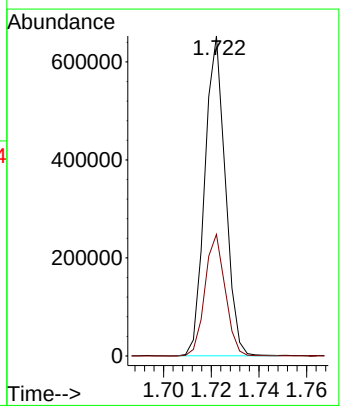


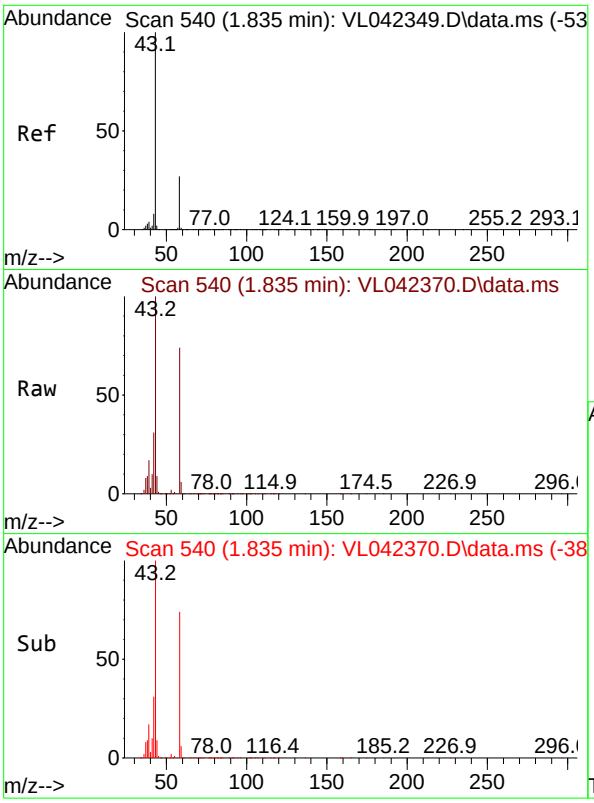


#13
Ethanol
Concen: 280.929 ppbv
RT: 1.722 min Scan# 505
Delta R.T. 0.003 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

Tgt Ion: 45 Resp: 389165

Ion	Ratio	Lower	Upper
45	100		
46	37.8	21.9	87.7



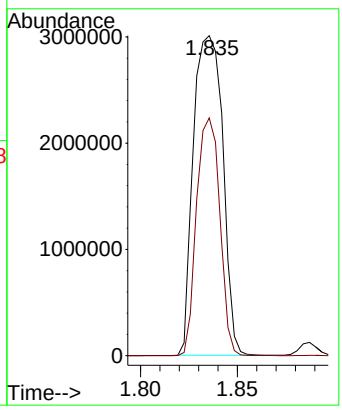


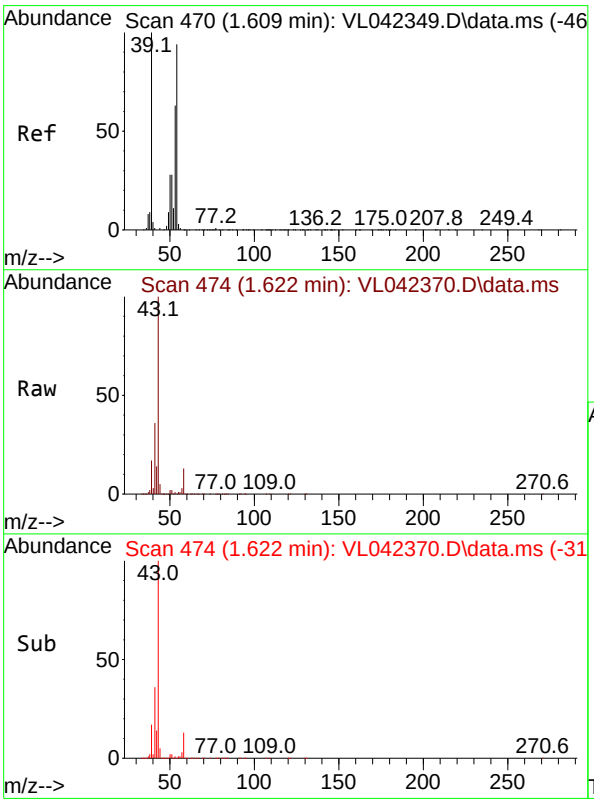
#15
Acetone
Concen: 170.726 ppbv
RT: 1.835 min Scan# 54
Delta R.T. 0.000 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025

Tgt Ion: 43 Resp: 3179147

Ion	Ratio	Lower	Upper
43	100		
58	59.0	22.4	33.6#

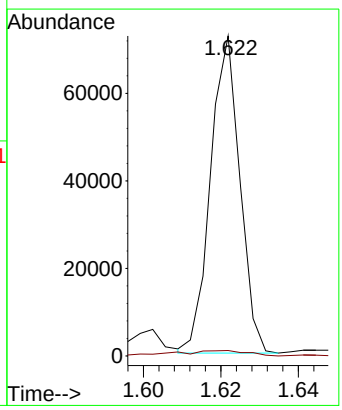


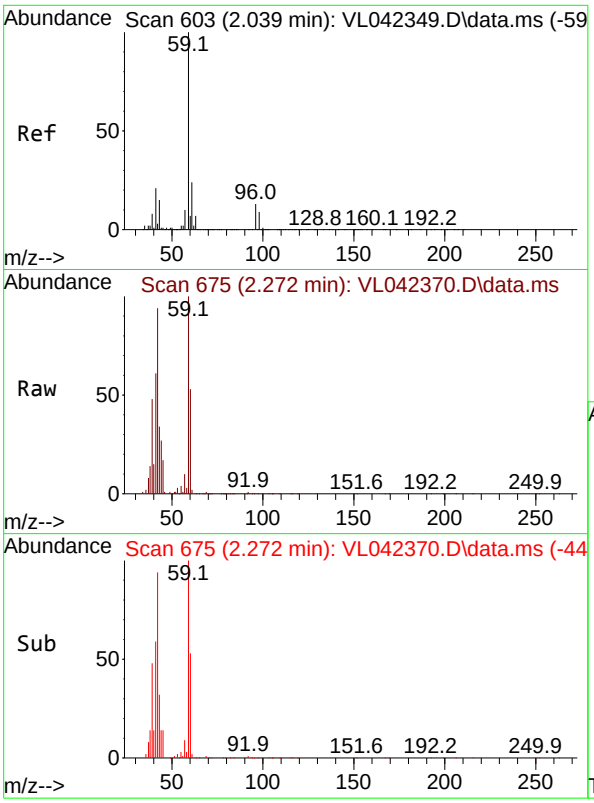


#16
1,3-Butadiene
Concen: 4.276 ppbv
RT: 1.622 min Scan# 474
Delta R.T. 0.013 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

Tgt Ion: 39 Resp: 38083

Ion	Ratio	Lower	Upper
39	100		
54	4.9	64.9	97.3#



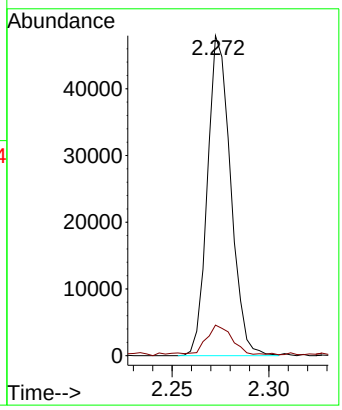


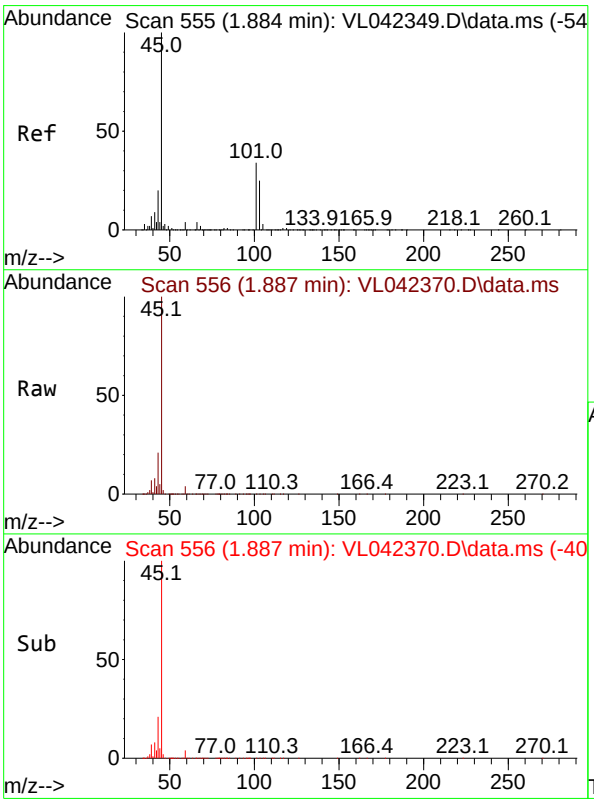
#17
tert-Butyl alcohol
Concen: 1.723 ppbv
RT: 2.272 min Scan# 6
Delta R.T. 0.233 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025

Tgt Ion: 59 Resp: 39766

Ion	Ratio	Lower	Upper
59	100		
57	10.5	8.7	13.1

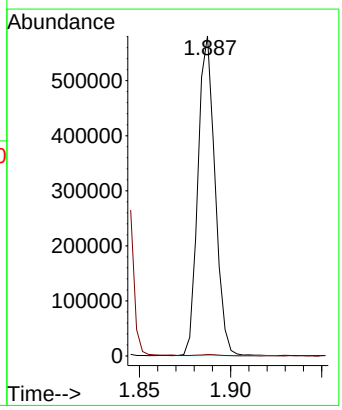


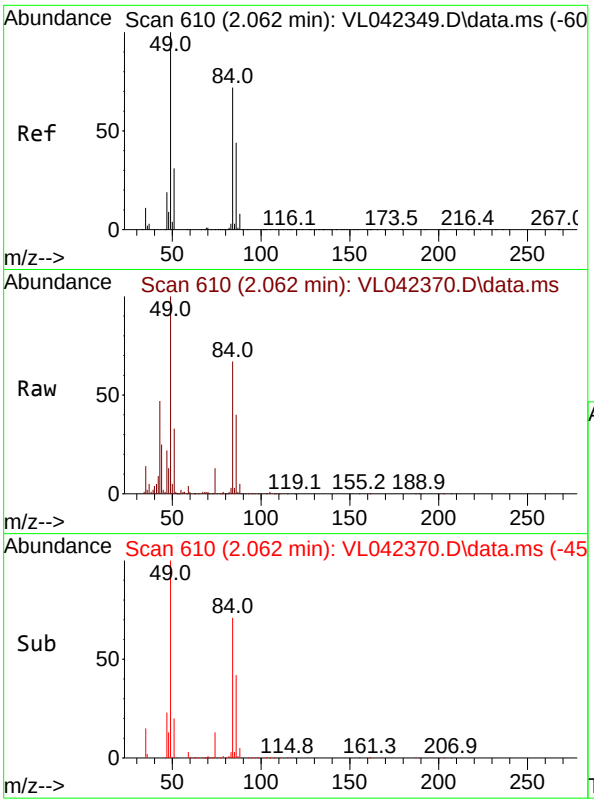


#19
Isopropyl Alcohol
Concen: 36.656 ppbv
RT: 1.887 min Scan# 556
Delta R.T. 0.003 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

Tgt Ion: 45 Resp: 379189

Ion	Ratio	Lower	Upper
45	100		
58	0.0	34.5	51.7#



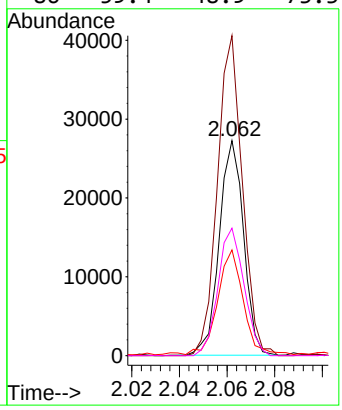


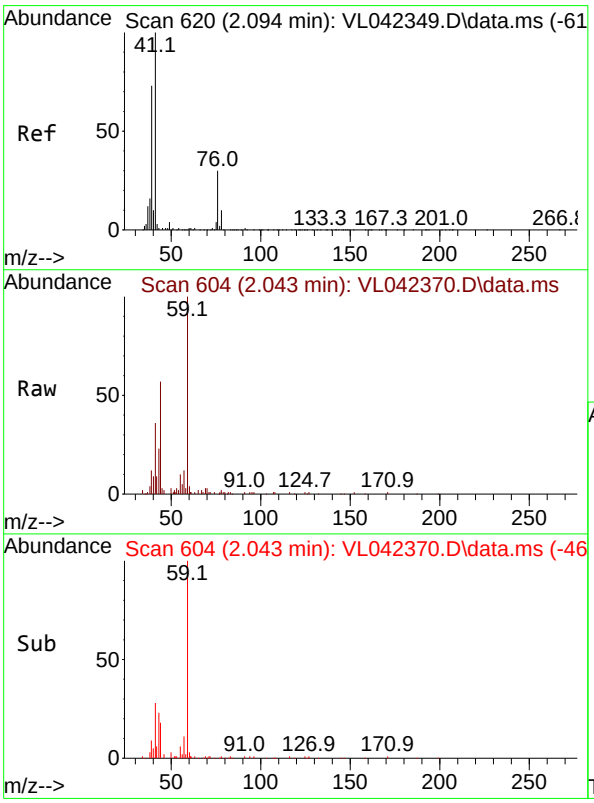
#20
Methylene Chloride
Concen: 2.648 ppbv
RT: 2.062 min Scan# 61
Delta R.T. 0.000 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025

Tgt Ion: 84 Resp: 19314

Ion	Ratio	Lower	Upper
84	100		
49	149.1	111.6	167.4
51	48.0	35.1	52.7
86	59.4	48.9	73.3

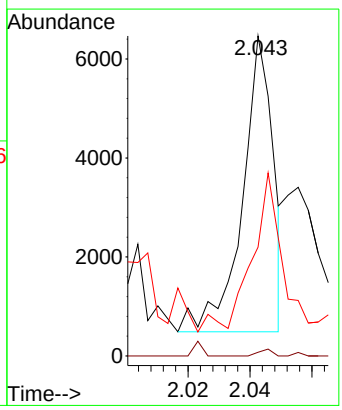


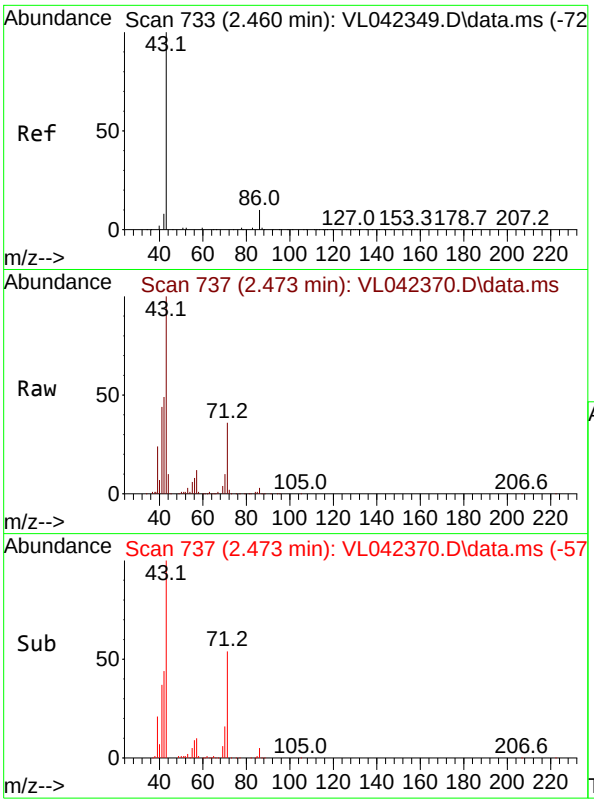


#21
Allyl Chloride
Concen: 0.323 ppbv
RT: 2.043 min Scan# 604
Delta R.T. -0.052 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

Tgt Ion: 41 Resp: 4157

Ion	Ratio	Lower	Upper
41	100		
76	2.7	24.8	37.2#
39	0.0	60.6	90.8#



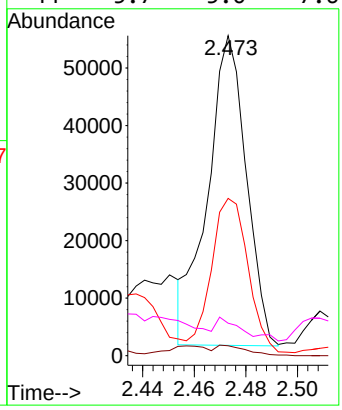


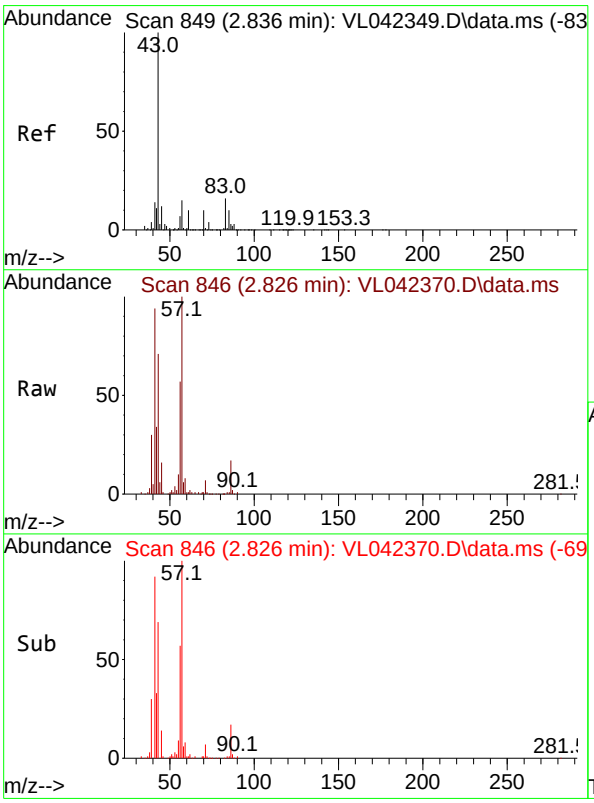
#23
Vinyl Acetate
Concen: 7.435 ppbv
RT: 2.473 min Scan# 7
Delta R.T. 0.013 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025

Tgt Ion: 43 Resp: 56038

Ion	Ratio	Lower	Upper
43	100		
86	3.0	6.5	9.7#
42	49.7	7.8	11.8#
44	5.7	5.0	7.6

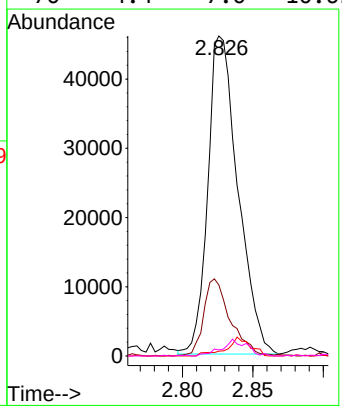


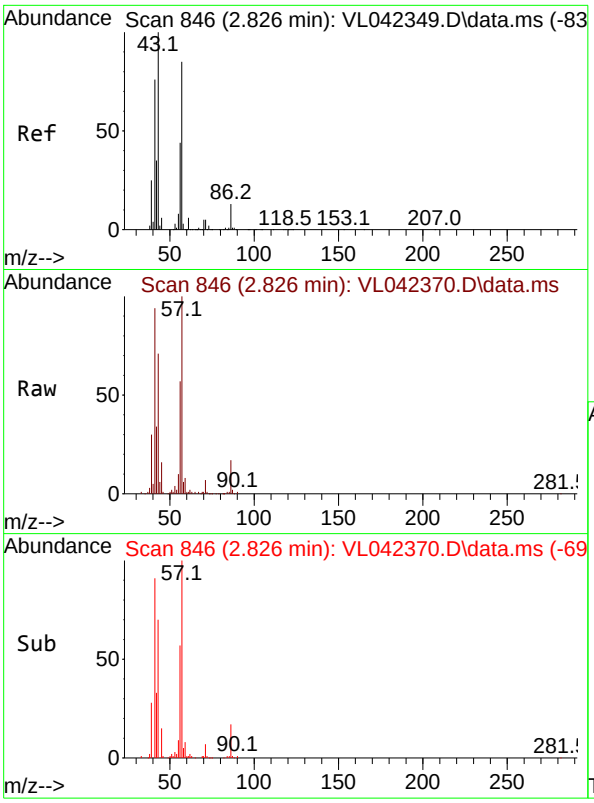


#25
Ethyl Acetate
Concen: 1.494 ppbv
RT: 2.826 min Scan# 846
Delta R.T. -0.010 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

Tgt Ion: 43 Resp: 68589

Ion	Ratio	Lower	Upper
43	100		
45	21.6	8.3	12.5#
61	4.6	7.3	10.9#
70	4.4	7.0	10.6#



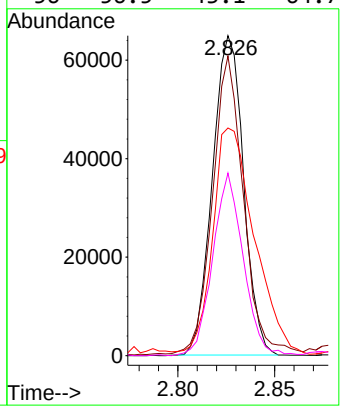


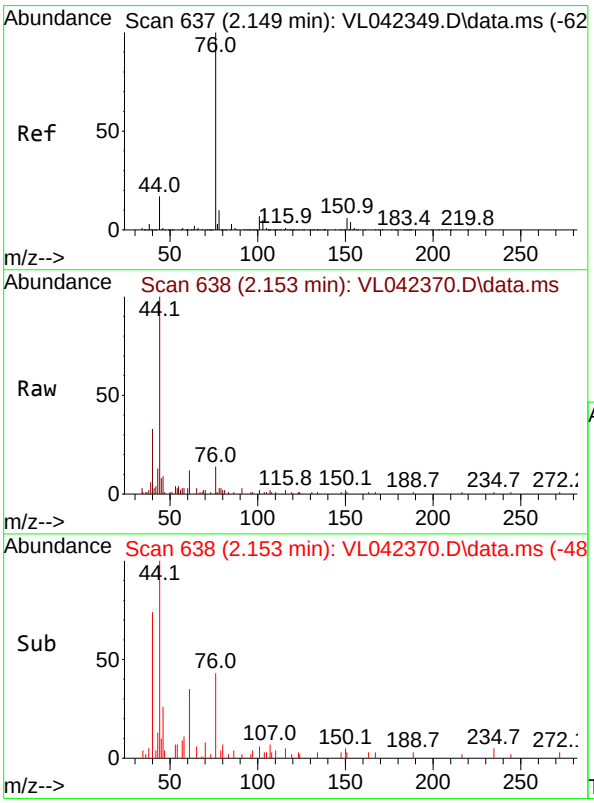
#26
Hexane
Concen: 3.893 ppbv
RT: 2.826 min Scan# 84
Delta R.T. 0.000 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025

Tgt Ion: 57 Resp: 72332

Ion	Ratio	Lower	Upper
57	100		
41	93.6	77.9	116.9
43	95.6	208.4	312.6#
56	56.5	43.1	64.7

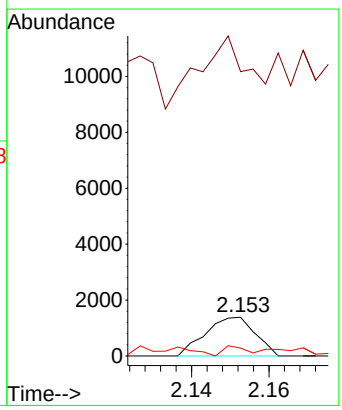


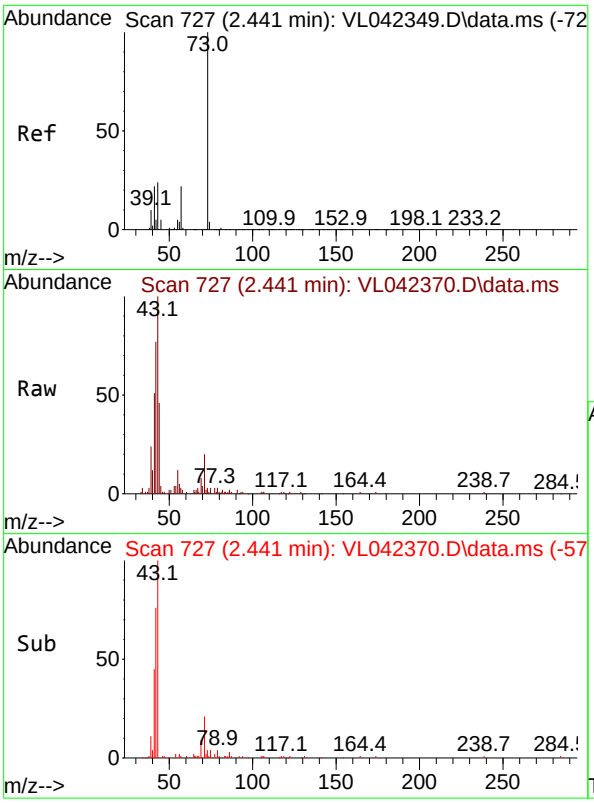


#27
Carbon Disulfide
Concen: 0.062 ppbv
RT: 2.153 min Scan# 638
Delta R.T. 0.003 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

Tgt Ion: 76 Resp: 1238

Ion	Ratio	Lower	Upper
76	100		
44	0.0	15.5	23.3#
78	35.7	9.3	13.9#



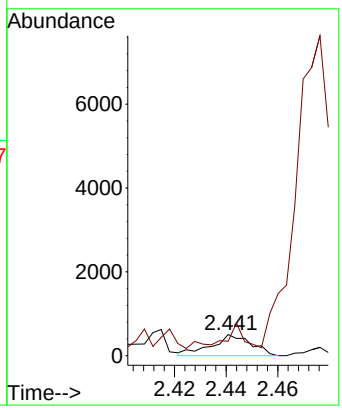


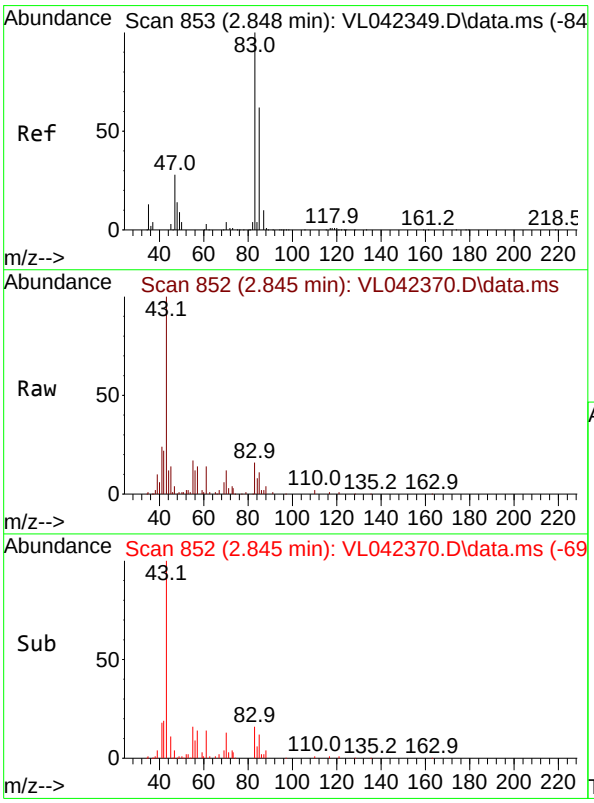
#28
Methyl tert-Butyl Ether
Concen: 0.044 ppbv
RT: 2.441 min Scan# 7
Delta R.T. 0.000 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025

Tgt Ion: 73 Resp: 537

Ion	Ratio	Lower	Upper
73	100		
57	0.0	21.3	31.9#

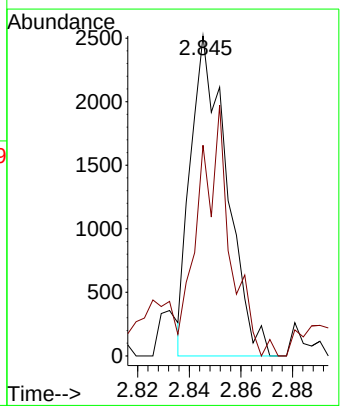


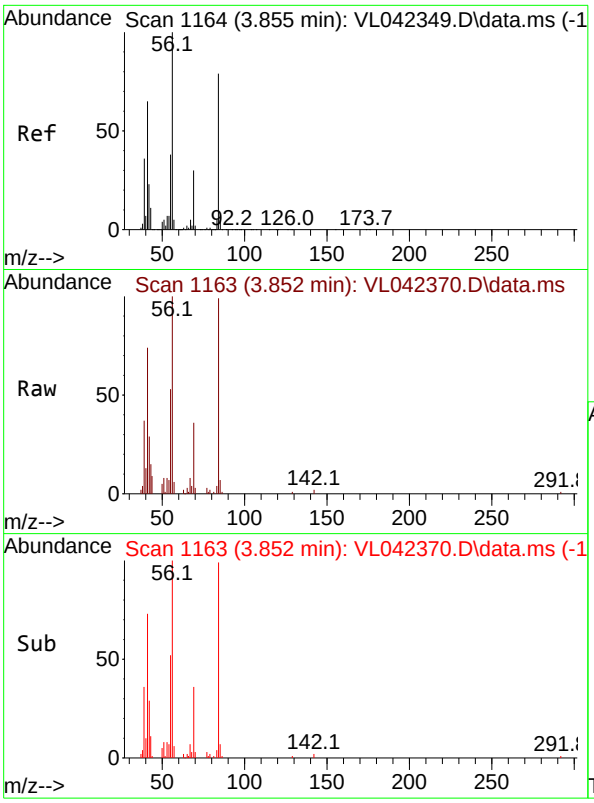


#29
Chloroform
Concen: 0.093 ppbv
RT: 2.845 min Scan# 852
Delta R.T. -0.003 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

Tgt Ion: 83 Resp: 2448

Ion	Ratio	Lower	Upper
83	100		
85	65.8	50.0	75.0



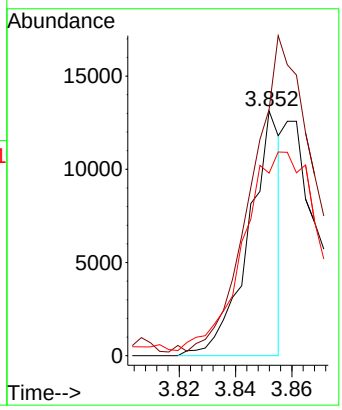


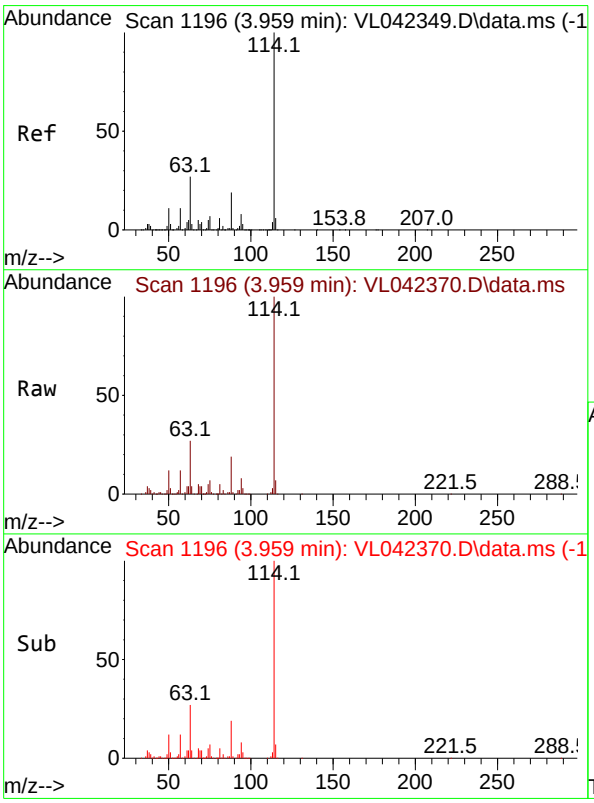
#30
Cyclohexane
Concen: 0.681 ppbv
RT: 3.852 min Scan# 11
Delta R.T. -0.003 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025

Tgt Ion: 84 Resp: 10233

Ion	Ratio	Lower	Upper
84	100		
56	269.5	101.0	151.4#
41	209.1	67.4	101.0#

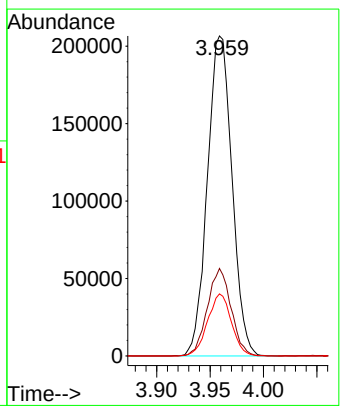


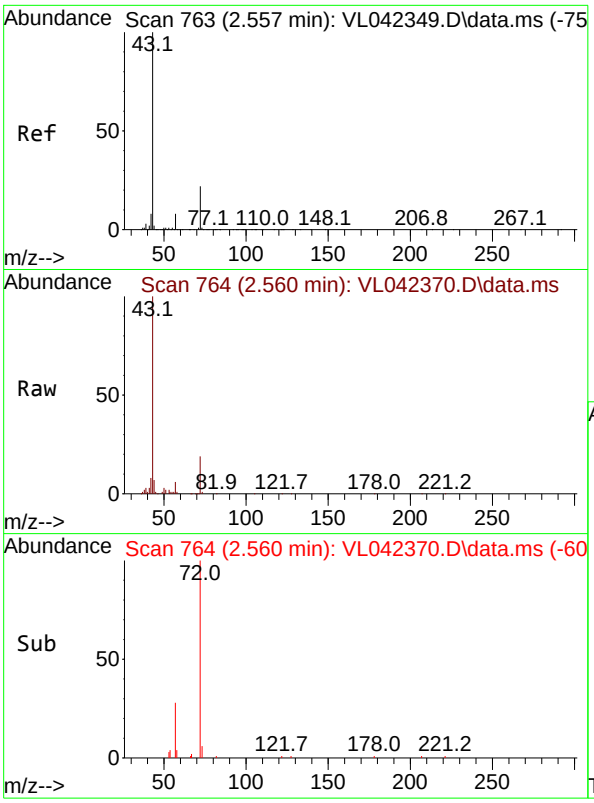


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.959 min Scan# 1196
Delta R.T. 0.000 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

Tgt Ion:114 Resp: 331268

Ion	Ratio	Lower	Upper
114	100		
63	26.3	21.8	32.6
88	18.8	15.5	23.3



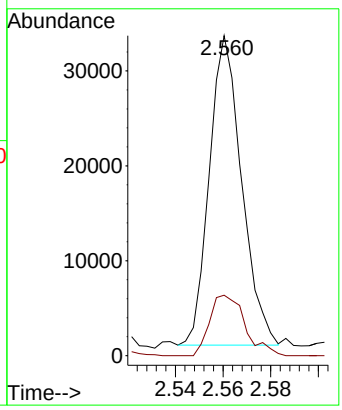


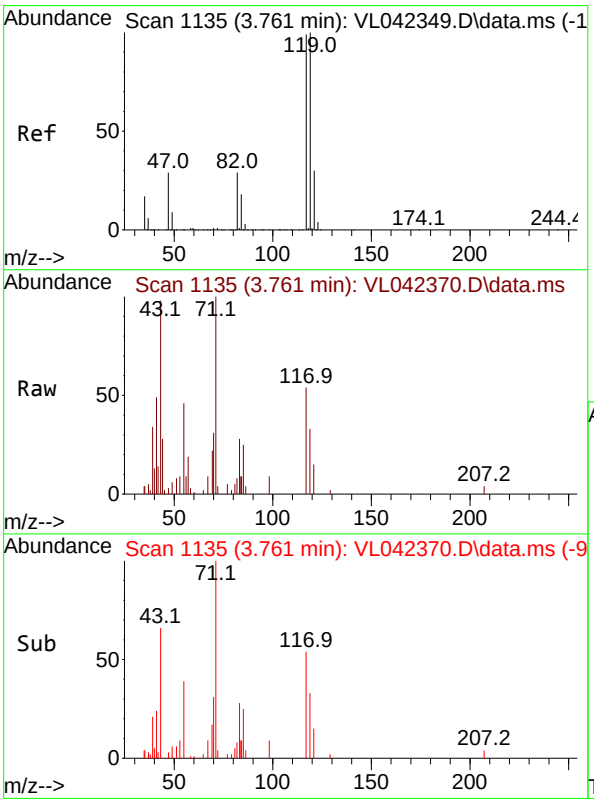
#34
2-Butanone
Concen: 1.172 ppbv
RT: 2.560 min Scan# 7
Delta R.T. 0.003 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025

Tgt Ion: 43 Resp: 30710

Ion	Ratio	Lower	Upper
43	100		
72	21.4	18.2	27.2

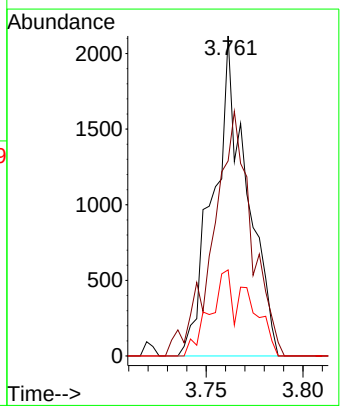


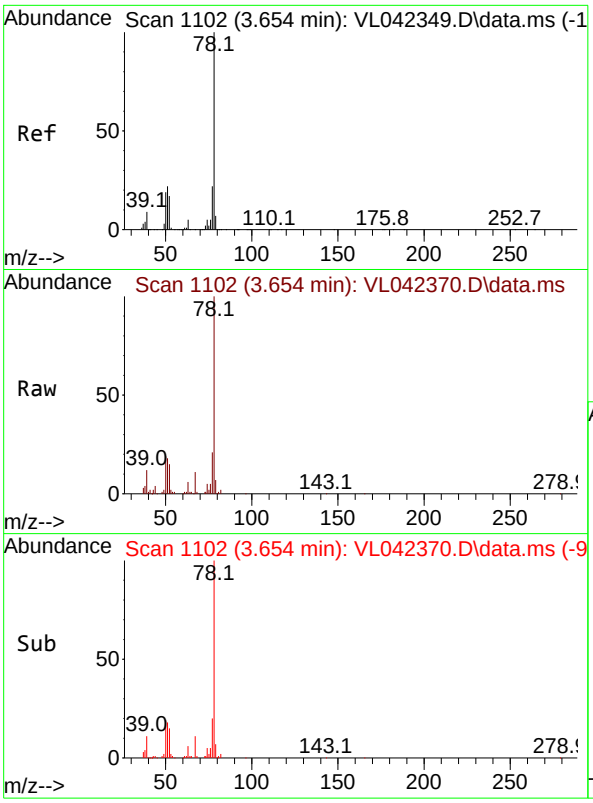


#35
Carbon Tetrachloride
Concen: 0.085 ppbv
RT: 3.761 min Scan# 1135
Delta R.T. 0.000 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

Tgt Ion:117 Resp: 2547

Ion	Ratio	Lower	Upper
117	100		
119	56.7	80.5	120.7#
121	26.9	24.2	36.2



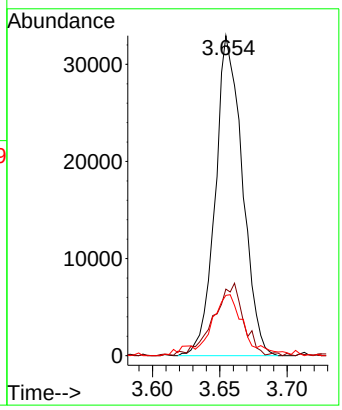


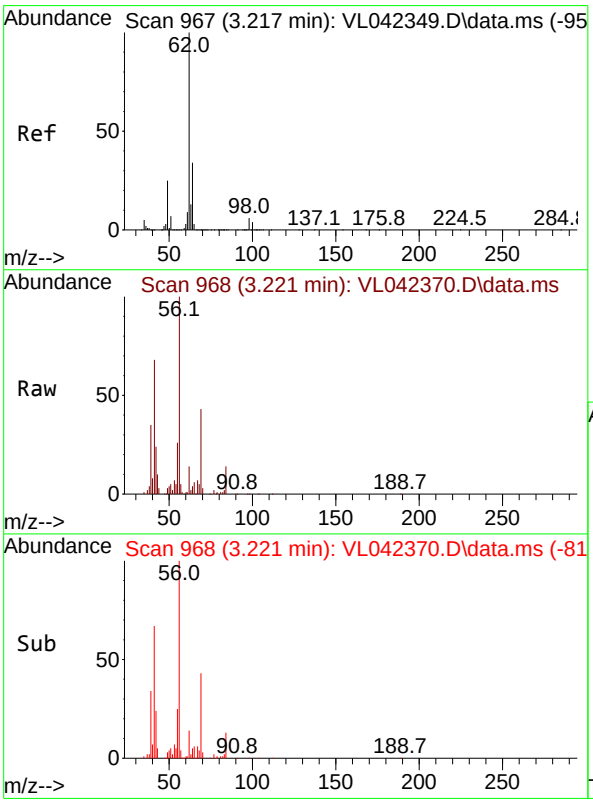
#36
Benzene
Concen: 1.289 ppbv
RT: 3.654 min Scan# 11
Delta R.T. 0.000 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025

Tgt Ion: 78 Resp: 46043

Ion	Ratio	Lower	Upper
78	100		
77	20.0	17.4	26.0
50	17.7	15.5	23.3

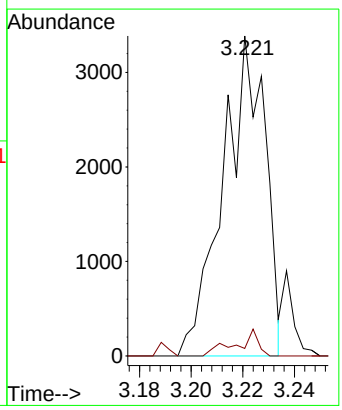


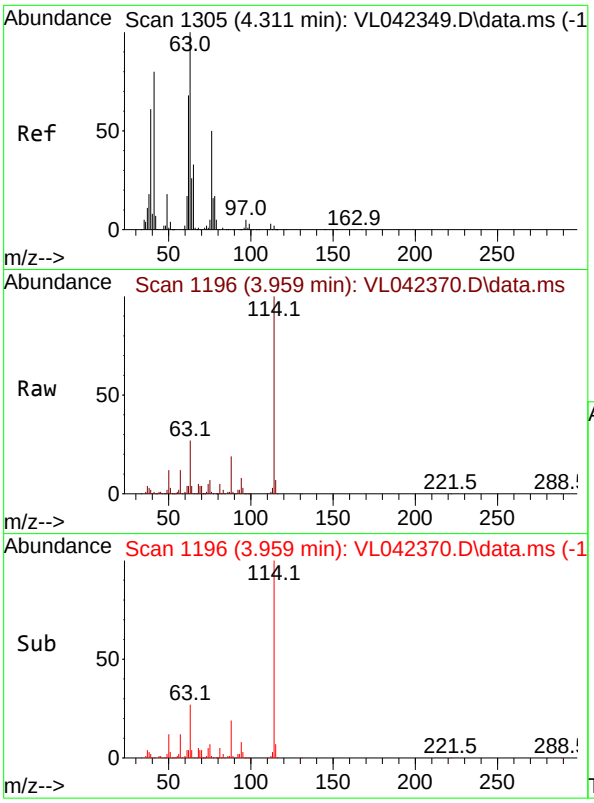


#37
1,2-Dichloroethane
Concen: 0.179 ppbv
RT: 3.221 min Scan# 968
Delta R.T. 0.003 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

Tgt Ion: 62 Resp: 3831

Ion	Ratio	Lower	Upper
62	100		
98	4.3	5.1	7.7#



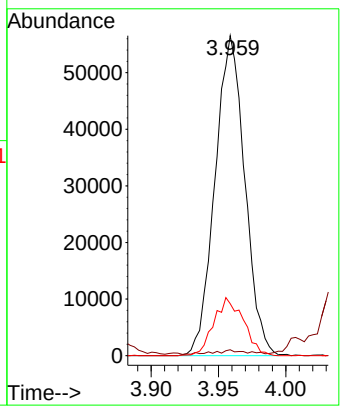


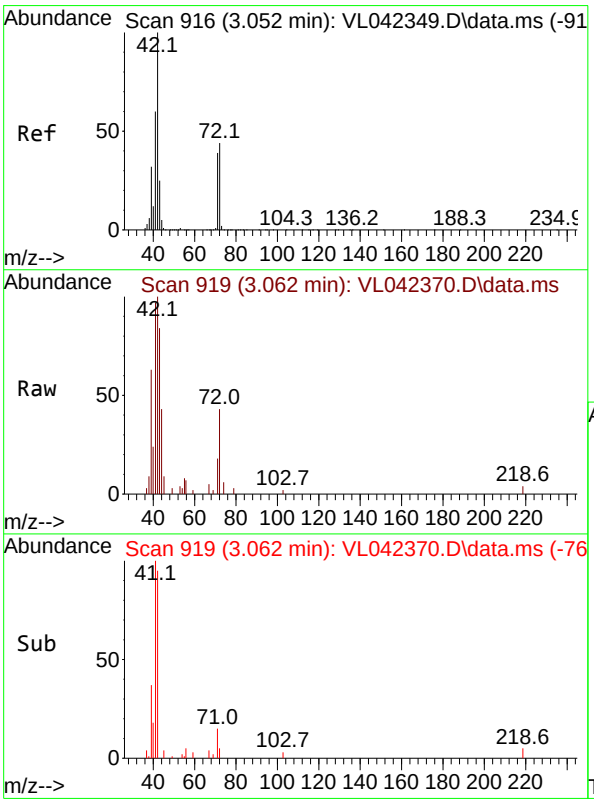
#39
1,2-Dichloropropane
Concen: 6.535 ppbv
RT: 3.959 min Scan# 1
Delta R.T. -0.353 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025

Tgt Ion: 63 Resp: 87012

Ion	Ratio	Lower	Upper
63	100		
41	1.0	64.2	96.2#
62	16.3	54.3	81.5#

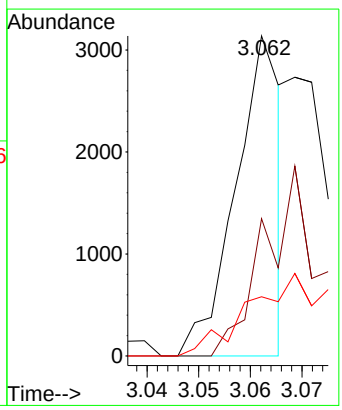


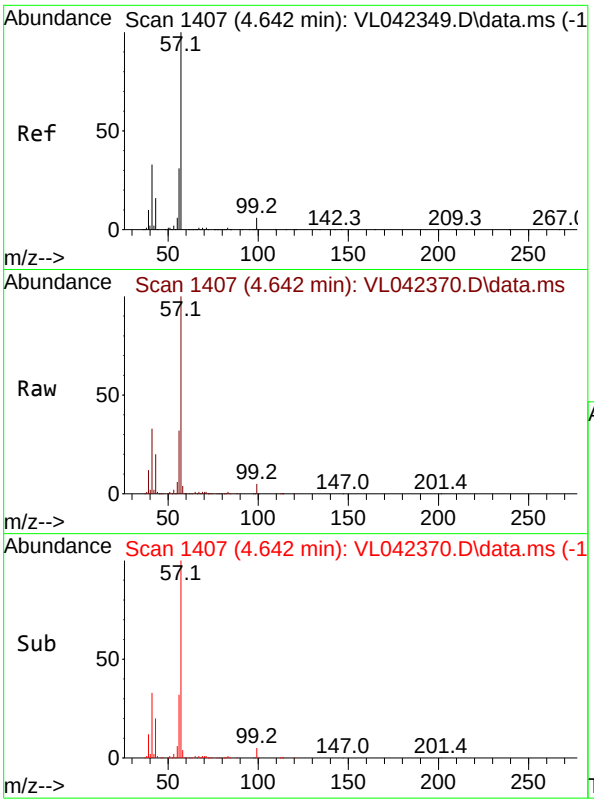


#41
Tetrahydrofuran
Concen: 0.126 ppbv
RT: 3.062 min Scan# 919
Delta R.T. 0.010 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

Tgt Ion: 42 Resp: 1920

Ion	Ratio	Lower	Upper
42	100		
72	0.0	32.3	48.5#
71	0.0	31.4	47.2#



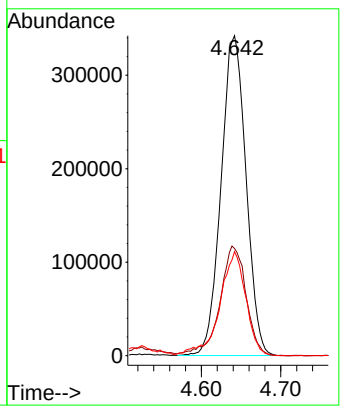


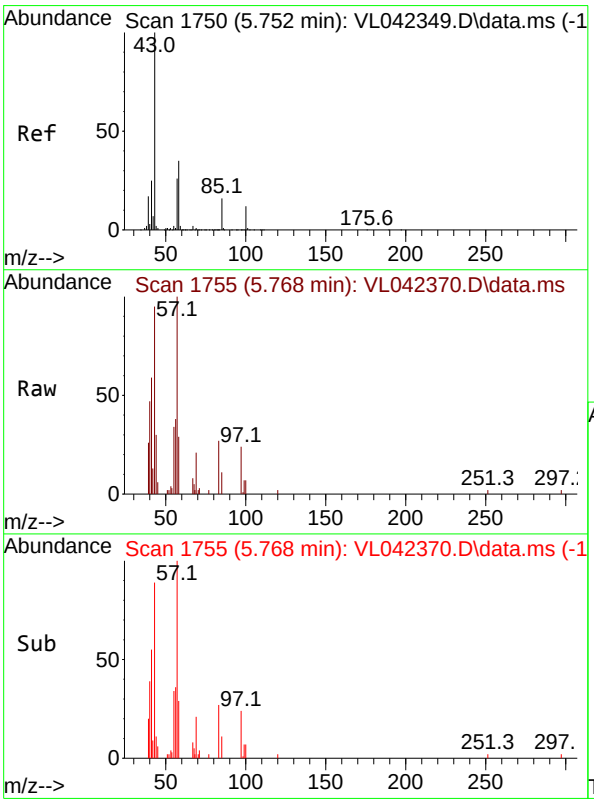
#44
2,2,4-Trimethylpentane
Concen: 12.103 ppbv
RT: 4.642 min Scan# 14
Delta R.T. 0.000 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025

Tgt Ion: 57 Resp: 746896

Ion	Ratio	Lower	Upper
57	100		
41	36.1	27.2	40.8
56	33.9	25.7	38.5

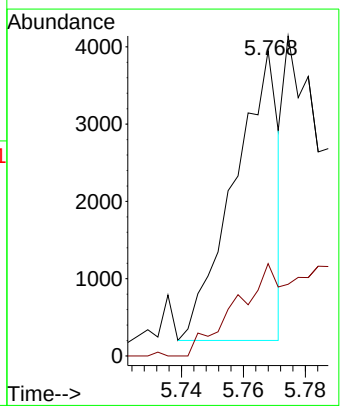


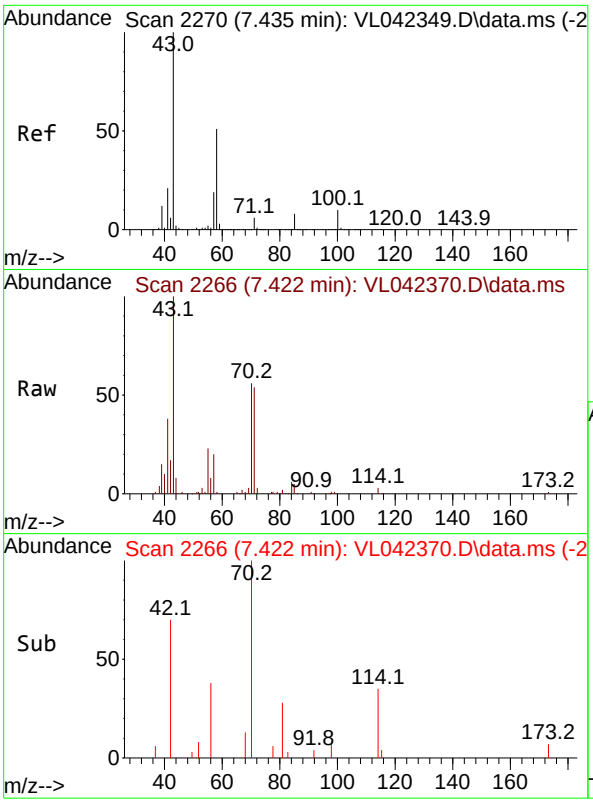


#50
4-Methyl-2-Pentanone
Concen: 0.085 ppbv
RT: 5.768 min Scan# 1755
Delta R.T. 0.016 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

Tgt Ion: 43 Resp: 3714

Ion	Ratio	Lower	Upper
43	100		
58	85.7	28.6	43.0#



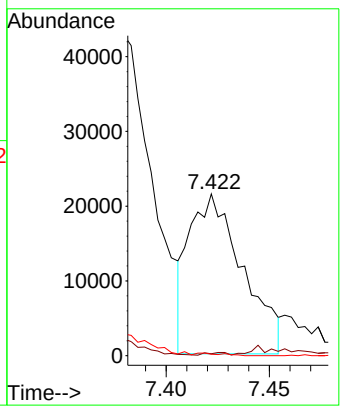


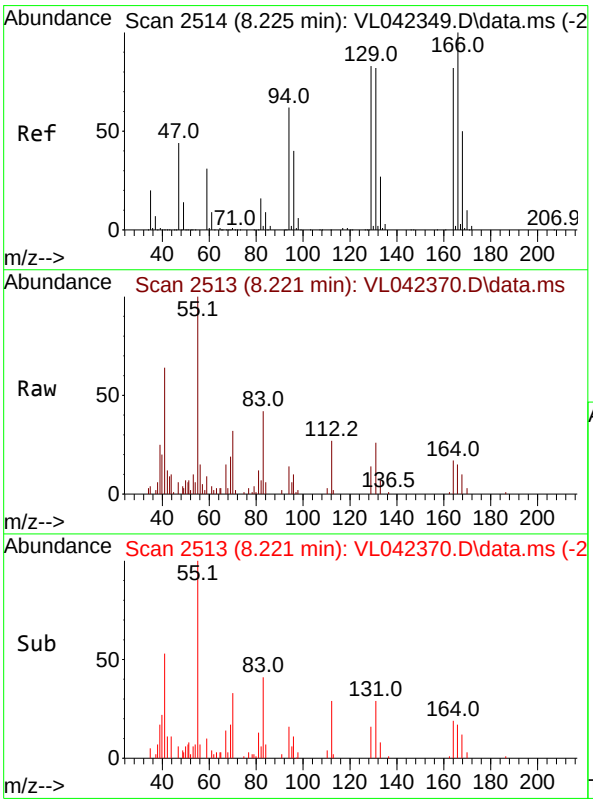
#51
2-Hexanone
Concen: 0.988 ppbv
RT: 7.422 min Scan# 2
Delta R.T. -0.013 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025

Tgt Ion: 43 Resp: 38587

Ion	Ratio	Lower	Upper
43	100		
58	0.0	40.2	60.4#
98	0.0	0.1	0.1#

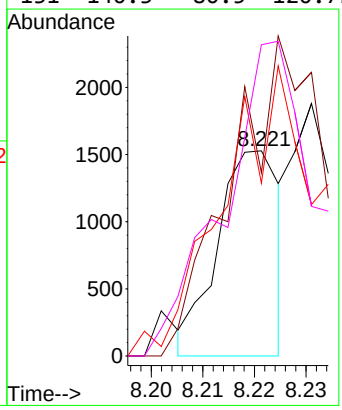


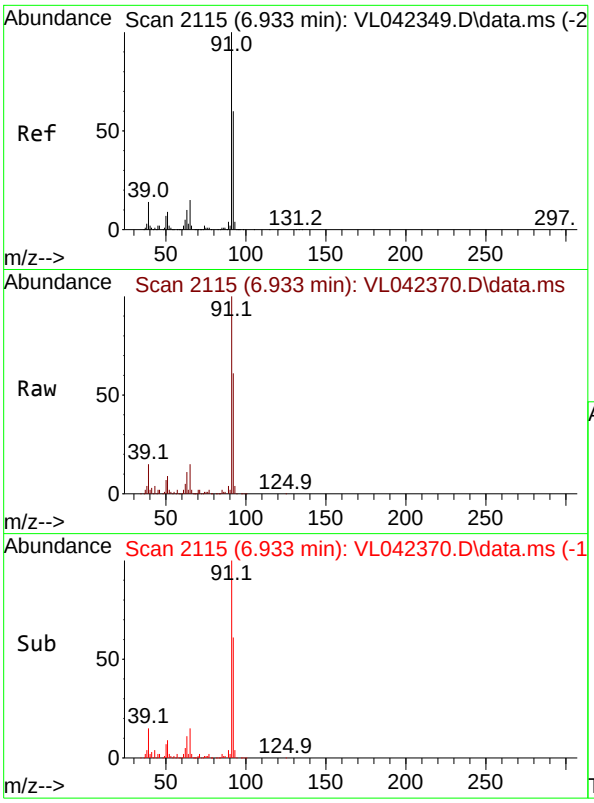


#52
Tetrachloroethene
Concen: 0.092 ppbv
RT: 8.221 min Scan# 2513
Delta R.T. -0.003 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

Tgt Ion:164 Resp: 1269

Ion	Ratio	Lower	Upper
164	100		
166	86.7	98.2	147.2#
129	70.5	81.8	122.8#
131	140.3	80.5	120.7#



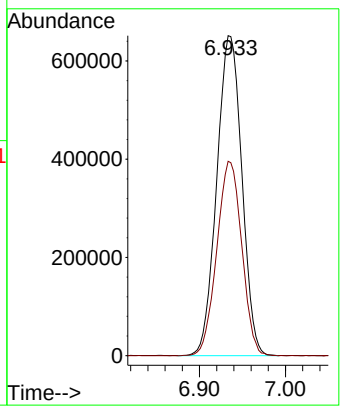


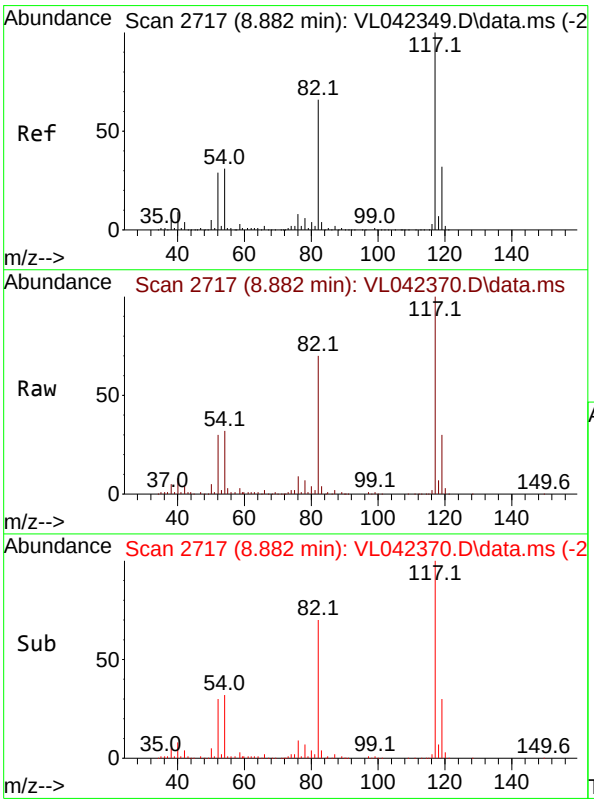
#53
Toluene
Concen: 30.789 ppbv
RT: 6.933 min Scan# 21
Delta R.T. 0.000 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025

Tgt Ion: 91 Resp: 1320170

Ion	Ratio	Lower	Upper
91	100		
92	60.4	48.2	72.4

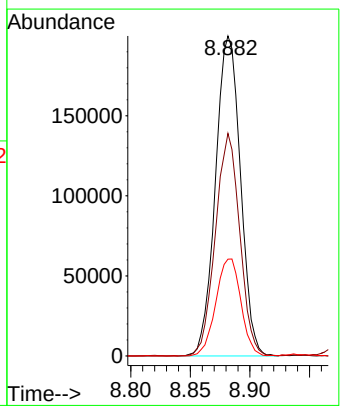


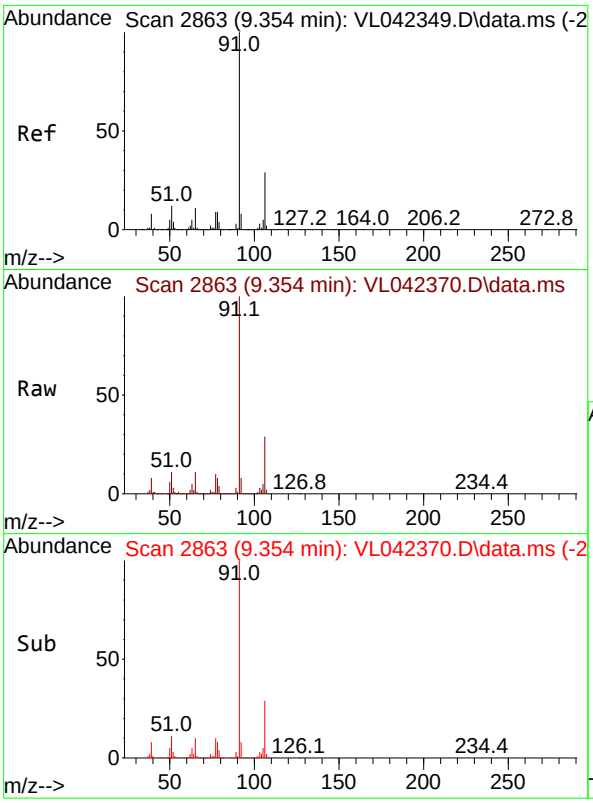


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.882 min Scan# 2717
Delta R.T. 0.000 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

Tgt Ion:117 Resp: 291013

Ion	Ratio	Lower	Upper
117	100		
82	67.8	57.8	86.6
119	30.5	25.2	37.8



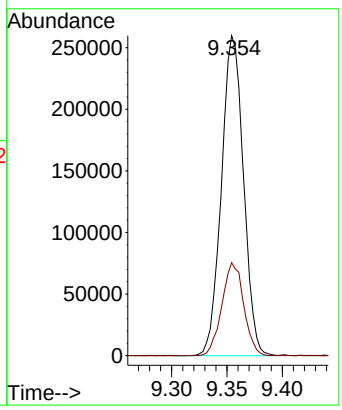


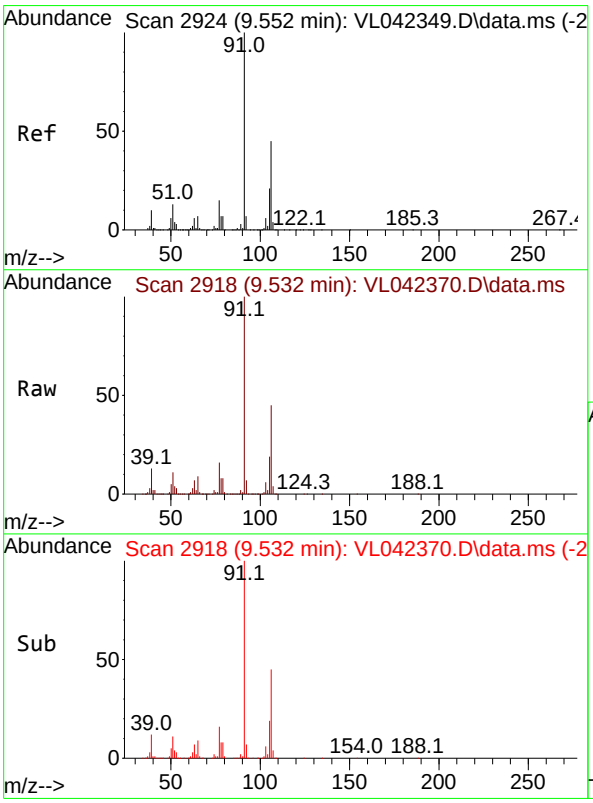
#58
Ethyl Benzene
Concen: 6.245 ppbv
RT: 9.354 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025

Tgt Ion: 91 Resp: 360069

Ion	Ratio	Lower	Upper
91	100		
106	29.1	23.0	34.4

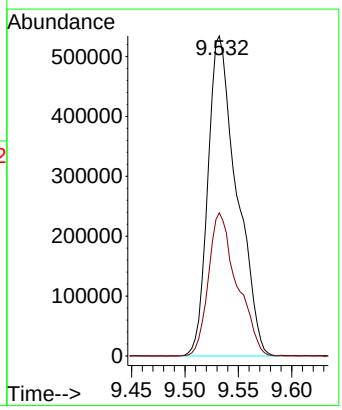


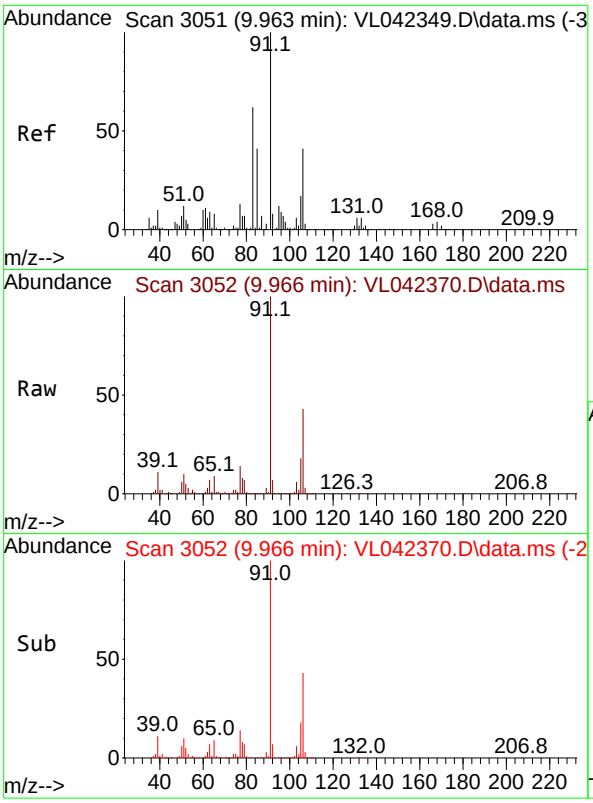


#59
m/p-Xylene
Concen: 21.619 ppbv
RT: 9.532 min Scan# 2918
Delta R.T. -0.019 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

Tgt Ion: 91 Resp: 1004159

Ion	Ratio	Lower	Upper
91	100		
106	44.2	35.4	53.2



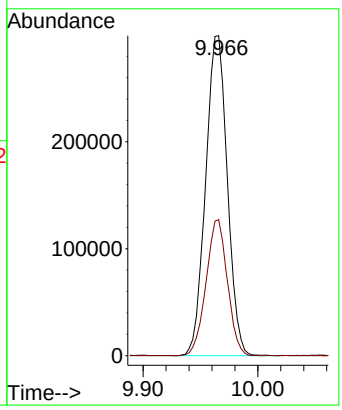


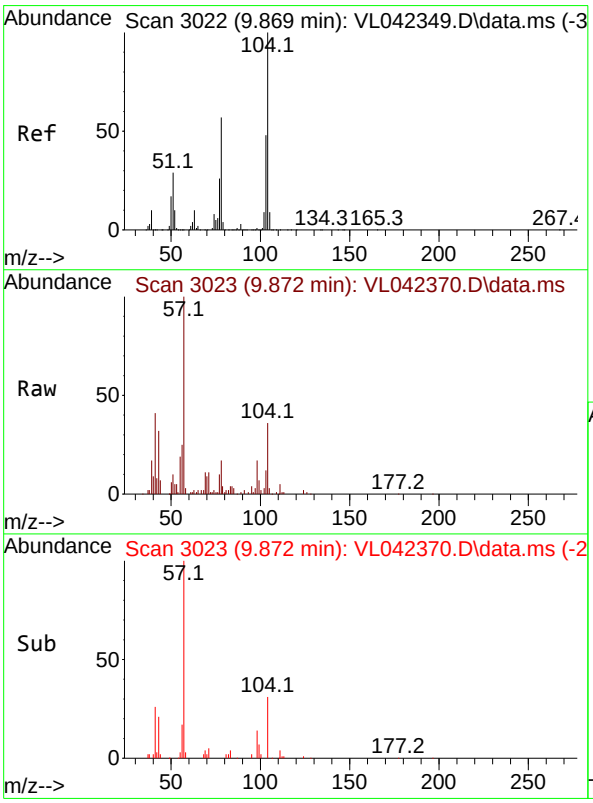
#60
o-Xylene
Concen: 8.410 ppbv
RT: 9.966 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025

Tgt Ion: 91 Resp: 393388

Ion	Ratio	Lower	Upper
91	100		
106	41.9	21.1	63.4

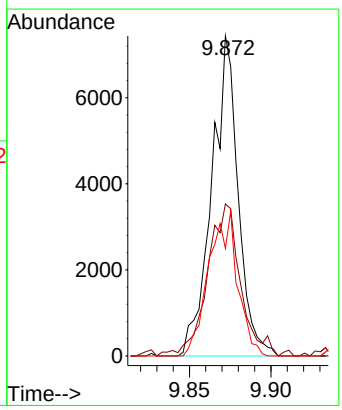


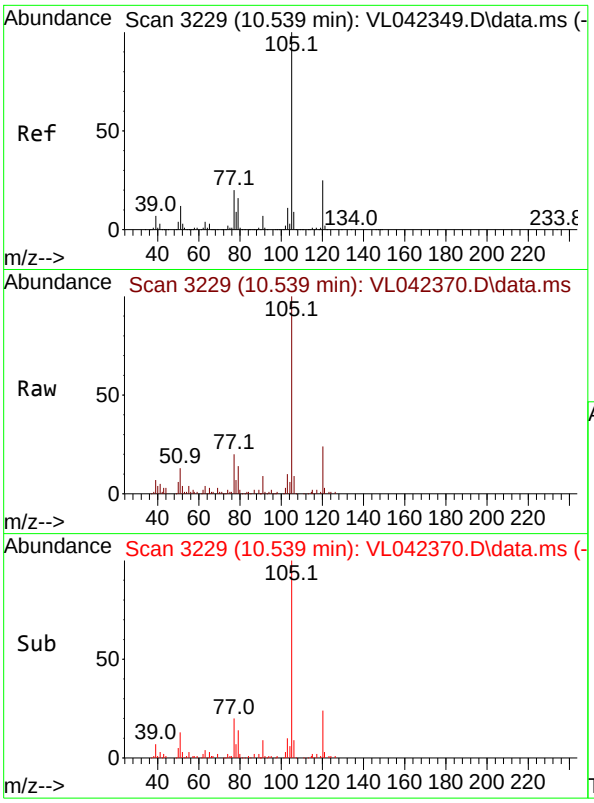


#61
Styrene
Concen: 0.376 ppbv
RT: 9.872 min Scan# 3023
Delta R.T. 0.003 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

Tgt Ion:104 Resp: 8391

Ion	Ratio	Lower	Upper
104	100		
78	60.3	44.6	66.8
103	49.1	37.4	56.0



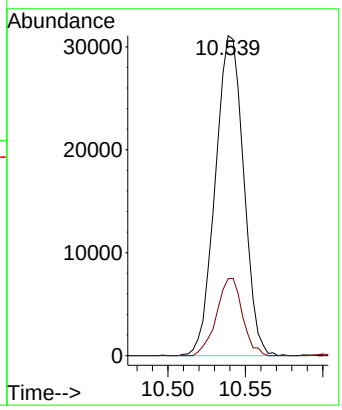


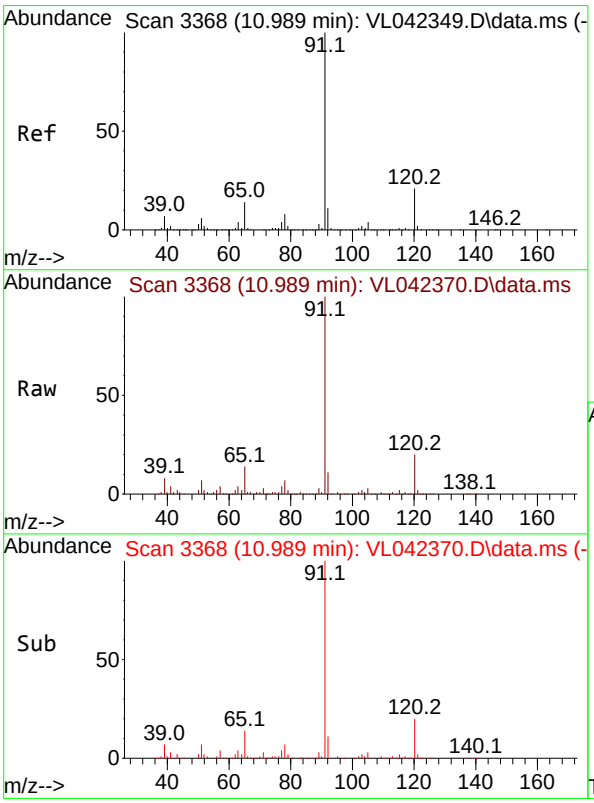
#62
Isopropylbenzene
Concen: 0.575 ppbv
RT: 10.539 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025

Tgt Ion:105 Resp: 39493

Ion	Ratio	Lower	Upper
105	100		
120	22.1	19.8	29.8

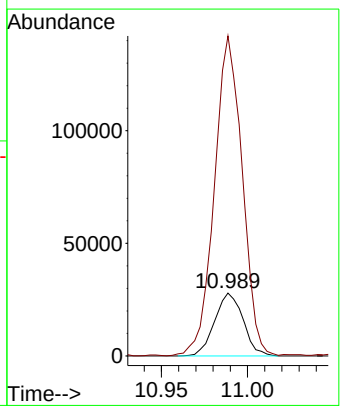


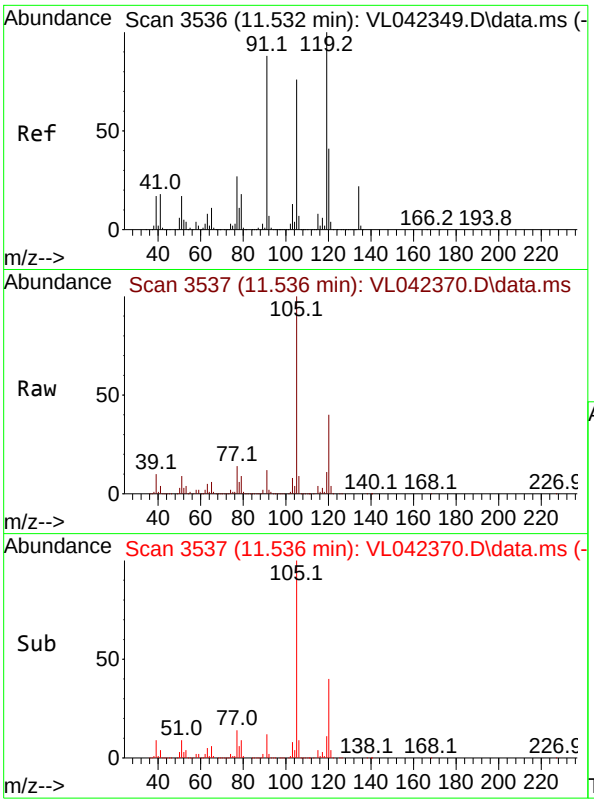


#64
n-propylbenzene
Concen: 1.858 ppbv
RT: 10.989 min Scan# 3368
Delta R.T. 0.000 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

Tgt Ion:120 Resp: 32073

Ion	Ratio	Lower	Upper
120	100		
91	500.9	392.4	588.6



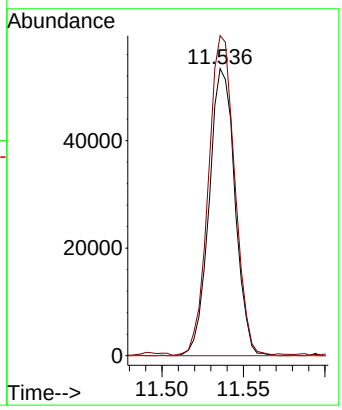


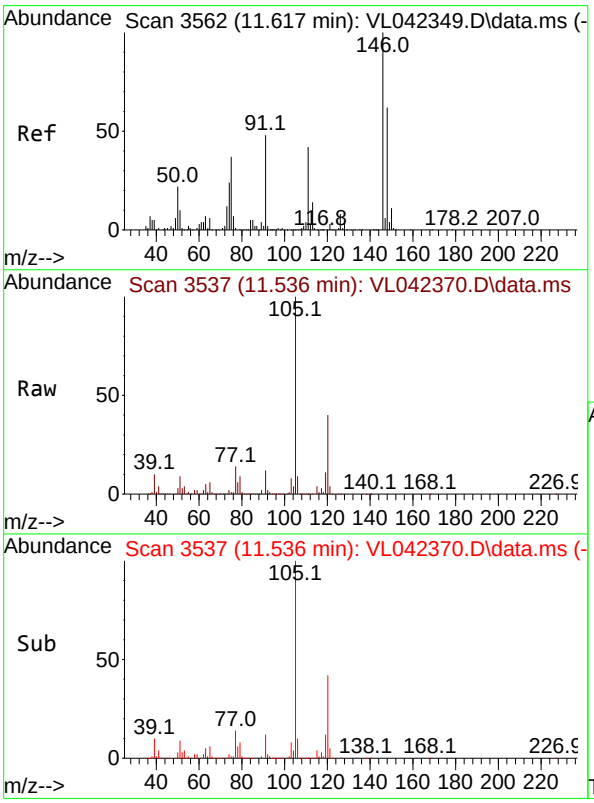
#65
tert-Butylbenzene
Concen: 0.932 ppbv
RT: 11.536 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025

Tgt Ion:119 Resp: 58794

Ion	Ratio	Lower	Upper
119	100		
91	113.4	74.6	111.8#
134	0.0	18.8	28.2#

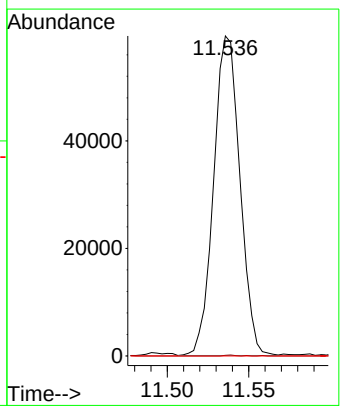


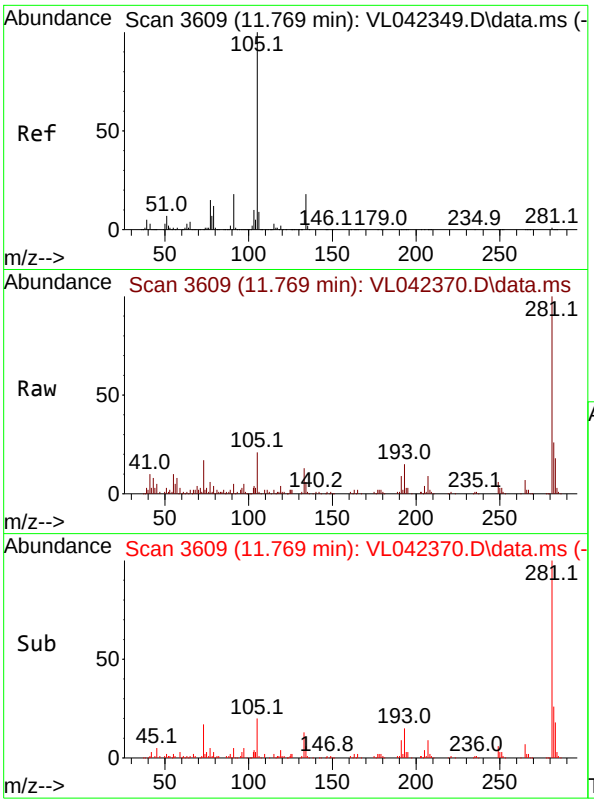


#66
Benzyl Chloride
Concen: 9.598 ppbv
RT: 11.536 min Scan# 3537
Delta R.T. -0.081 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

Tgt Ion: 91 Resp: 66566

Ion	Ratio	Lower	Upper
91	100		
126	0.1	11.8	17.6#
128	0.0	4.5	6.7#



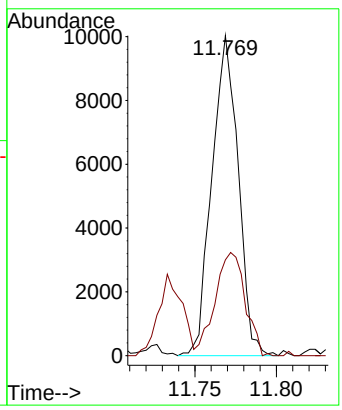


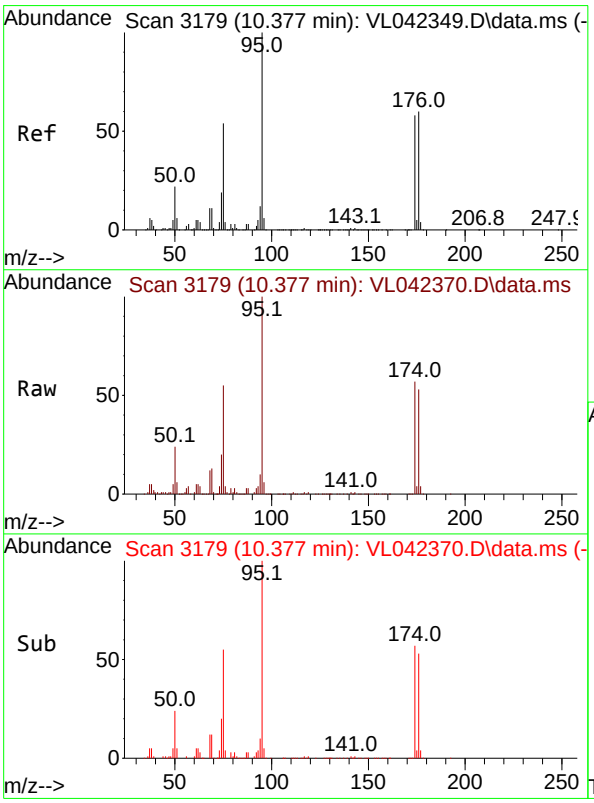
#67
sec-Butylbenzene
Concen: 0.128 ppbv
RT: 11.769 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025

Tgt Ion:105 Resp: 11229

Ion	Ratio	Lower	Upper
105	100		
134	35.1	14.6	21.8#

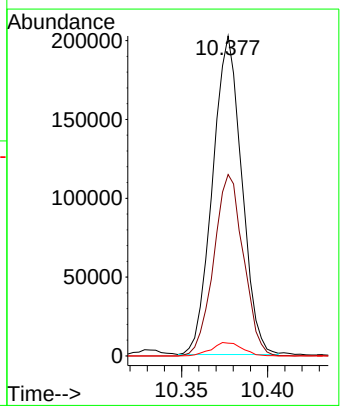


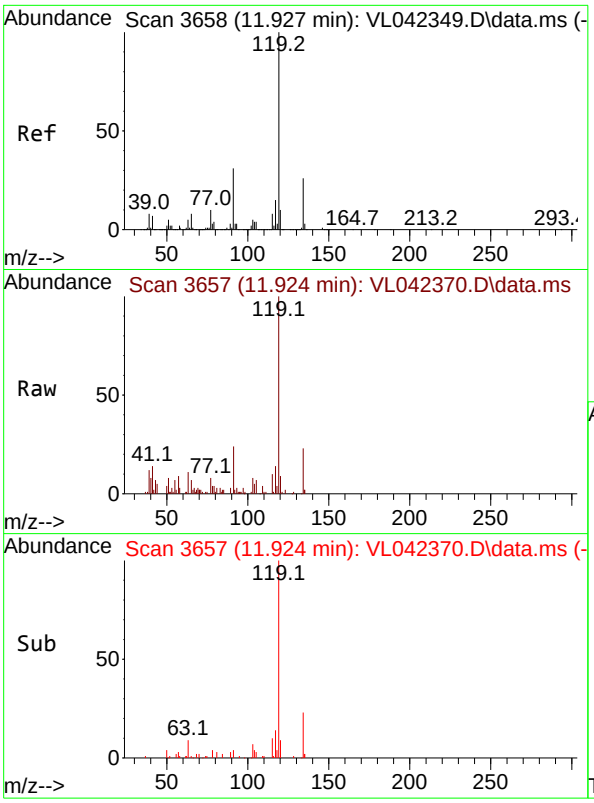


#68
1-Bromo-4-Fluorobenzene
Concen: 9.966 ppbv
RT: 10.377 min Scan# 3179
Delta R.T. 0.000 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

Tgt Ion: 95 Resp: 238323

Ion	Ratio	Lower	Upper
95	100		
174	58.0	48.5	72.7
175	4.5	3.7	5.5



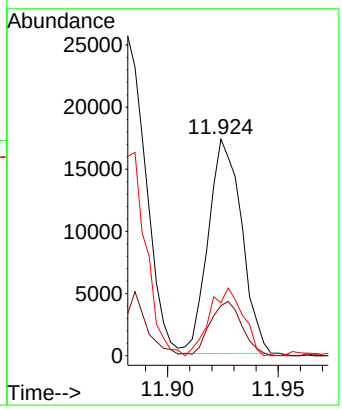


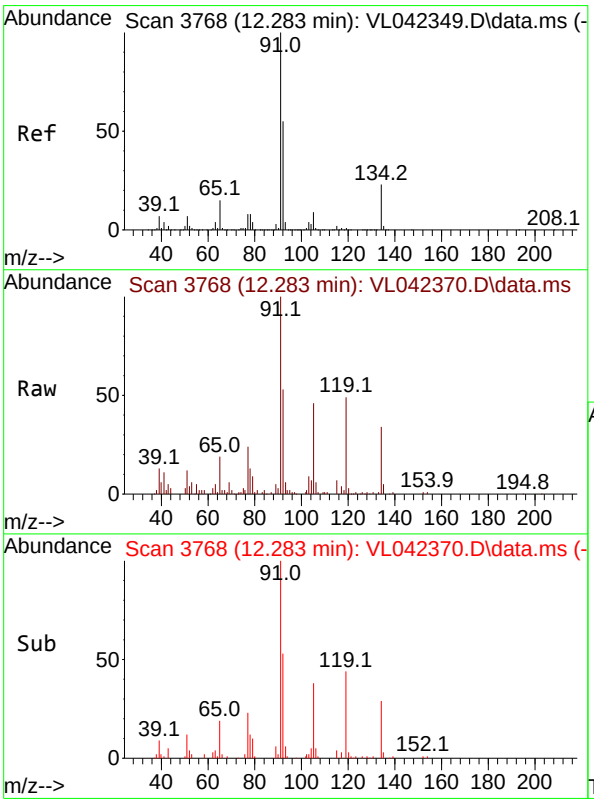
#69
p-Isopropyltoluene
Concen: 0.237 ppbv
RT: 11.924 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025

Tgt Ion:119 Resp: 18095

Ion	Ratio	Lower	Upper
119	100		
134	24.6	20.0	30.0
91	31.1	24.4	36.6

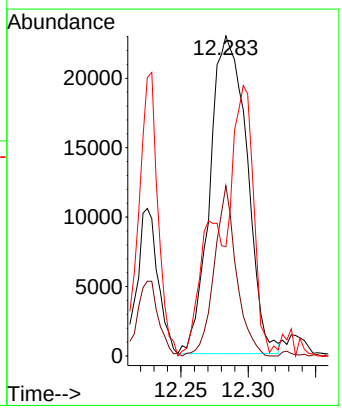


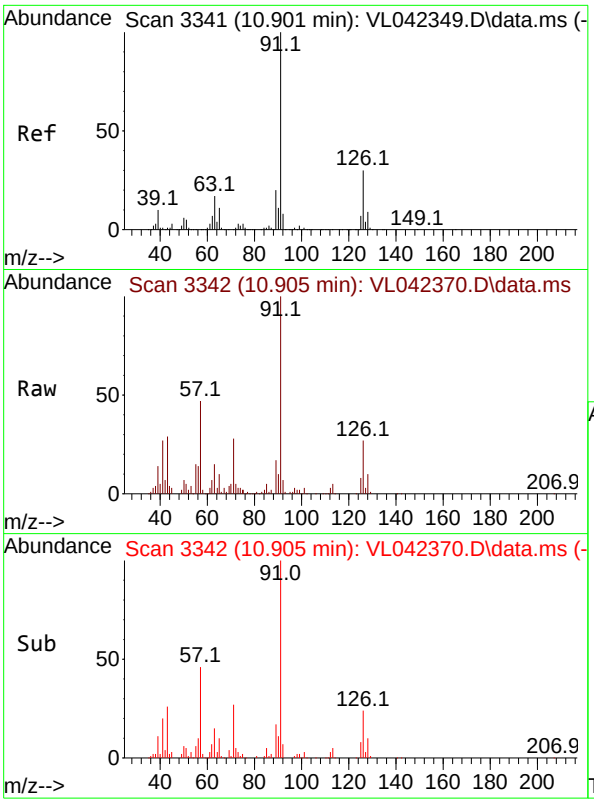


#70
n-Butylbenzene
Concen: 0.548 ppbv
RT: 12.283 min Scan# 3768
Delta R.T. 0.000 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

Tgt Ion: 91 Resp: 43525

Ion	Ratio	Lower	Upper
91	100		
92	32.2	44.2	66.4#
134	81.0	18.2	27.4#



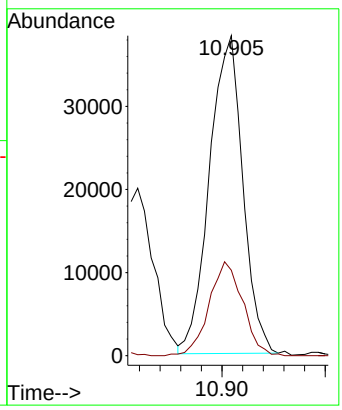


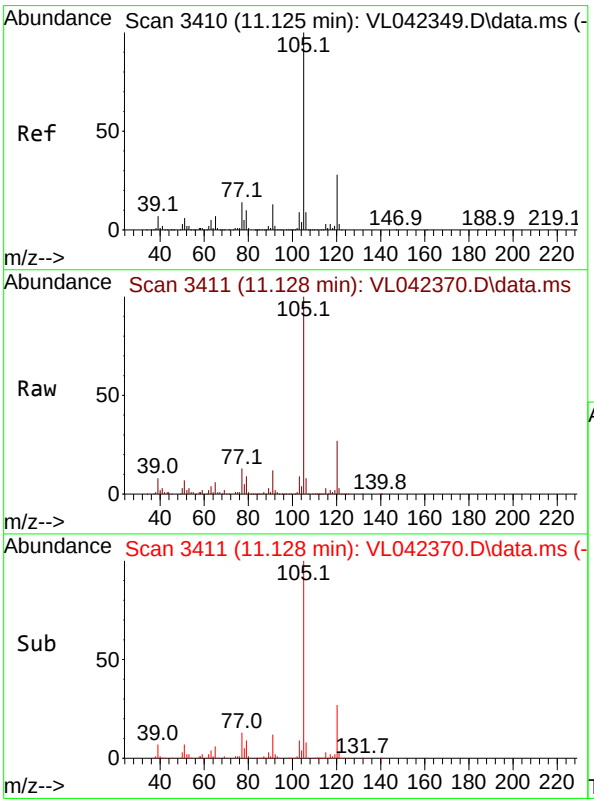
#71
2-Chlorotoluene
Concen: 0.796 ppbv
RT: 10.905 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025

Tgt Ion: 91 Resp: 42867

Ion	Ratio	Lower	Upper
91	100		
126	29.9	11.4	45.4

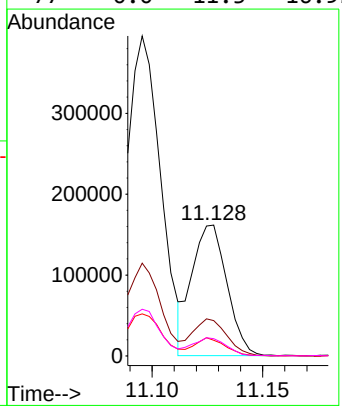


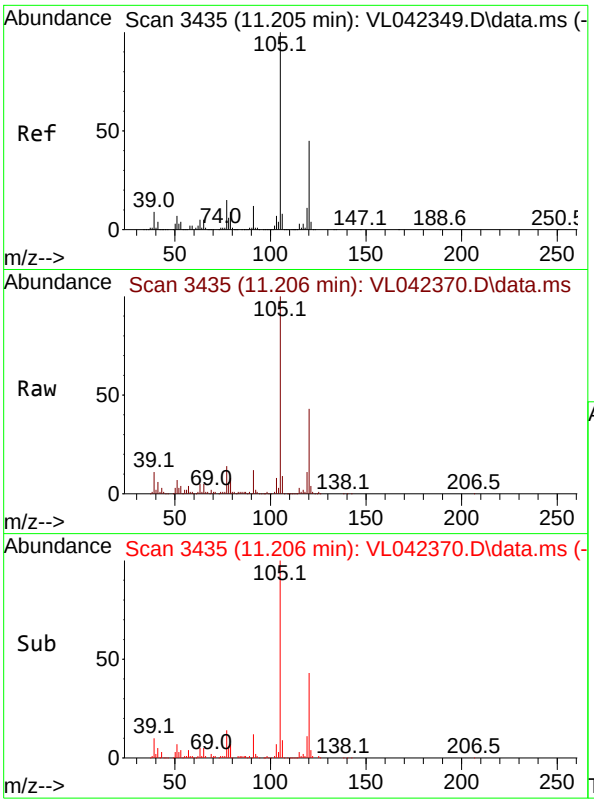


#72
4-Ethyltoluene
Concen: 3.128 ppbv
RT: 11.128 min Scan# 3411
Delta R.T. 0.003 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

Tgt Ion:105 Resp: 178872

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#



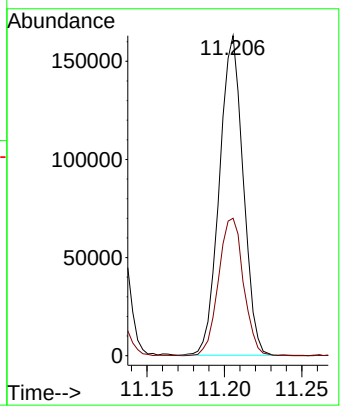


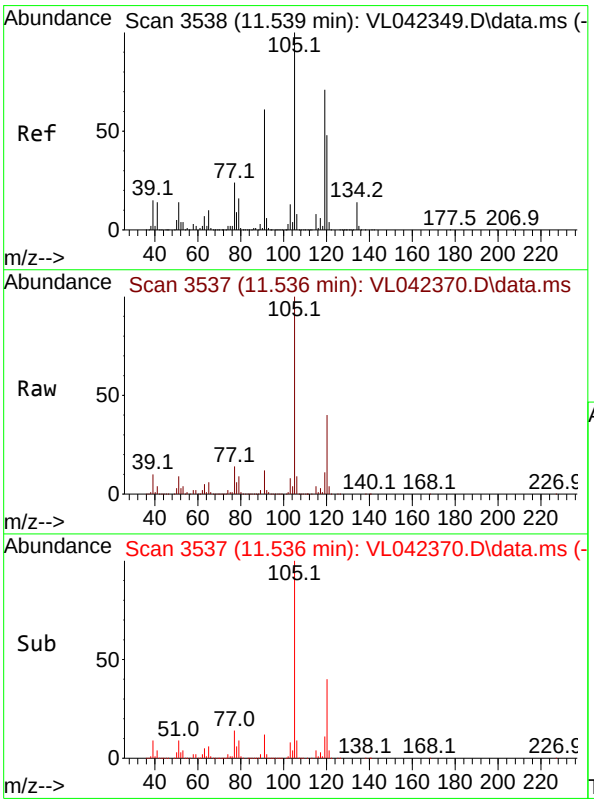
#73
1,3,5-Trimethylbenzene
Concen: 3.443 ppbv
RT: 11.206 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025

Tgt Ion:105 Resp: 173796

Ion	Ratio	Lower	Upper
105	100		
120	43.0	35.6	53.4

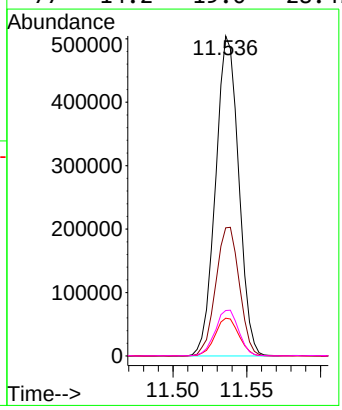


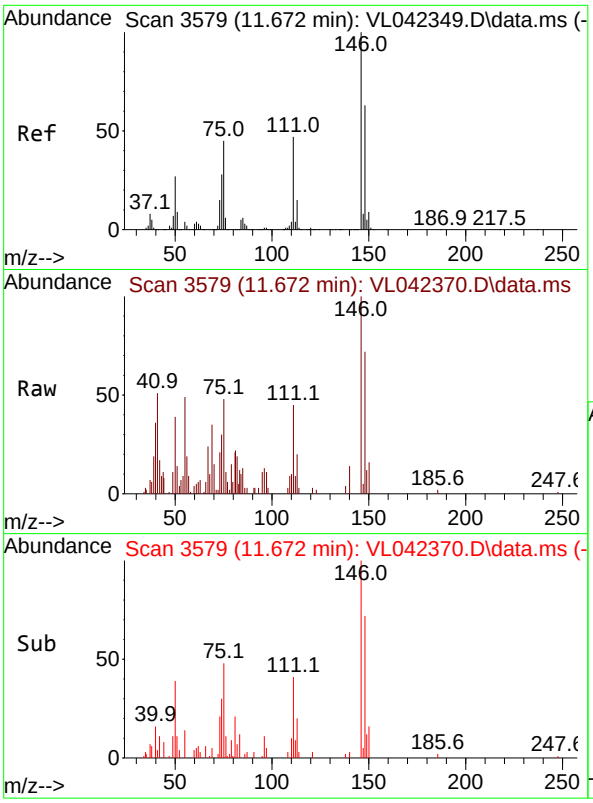


#74
1,2,4-Trimethylbenzene
Concen: 9.336 ppbv
RT: 11.536 min Scan# 3537
Delta R.T. -0.003 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

Tgt Ion:105 Resp: 550459

Ion	Ratio	Lower	Upper
105	100		
120	40.1	38.1	57.1
91	11.7	48.8	73.2#
77	14.2	19.0	28.4#



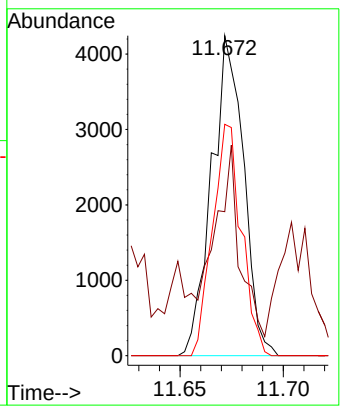


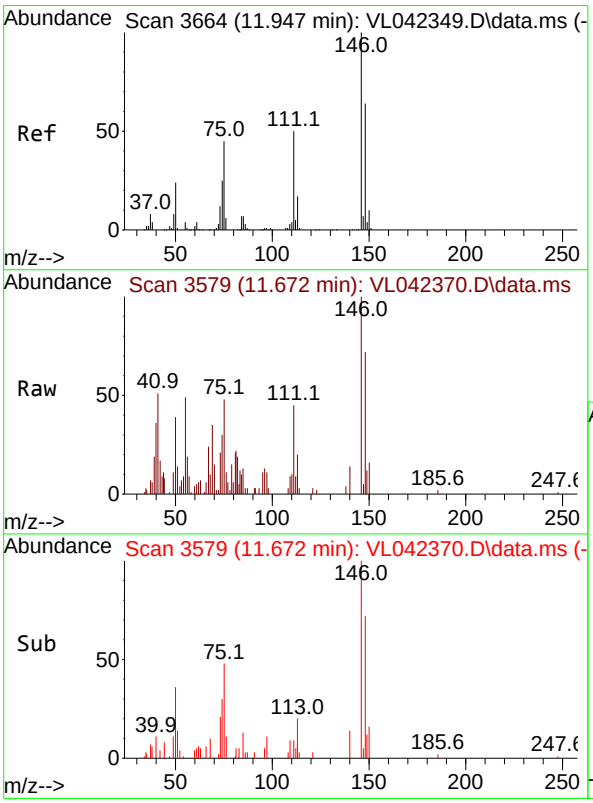
#76
1,4-Dichlorobenzene
Concen: 0.149 ppbv
RT: 11.672 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025

Tgt Ion:146 Resp: 4575

Ion	Ratio	Lower	Upper
146	100		
111	68.4	24.2	72.6
148	65.0	32.1	96.5

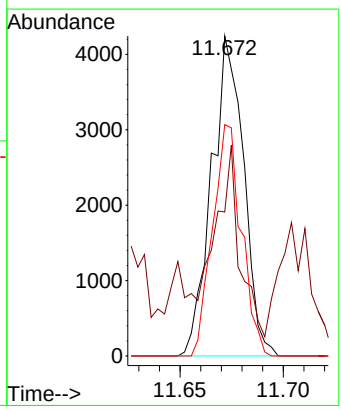


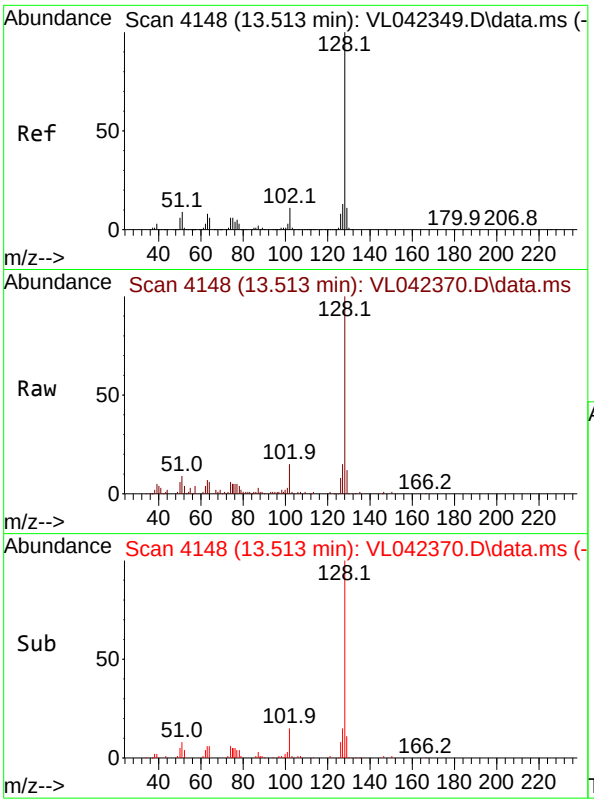


#77
1,2-Dichlorobenzene
Concen: 0.154 ppbv
RT: 11.672 min Scan# 3579
Delta R.T. -0.275 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

Tgt Ion:146 Resp: 4575

Ion	Ratio	Lower	Upper
146	100		
111	58.3	25.3	75.9
148	65.0	31.5	94.5



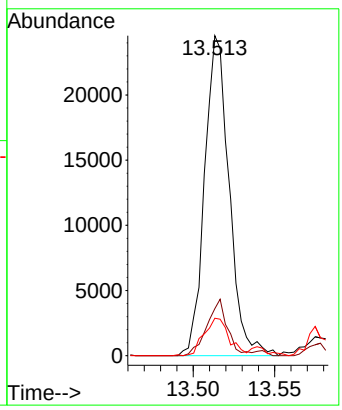


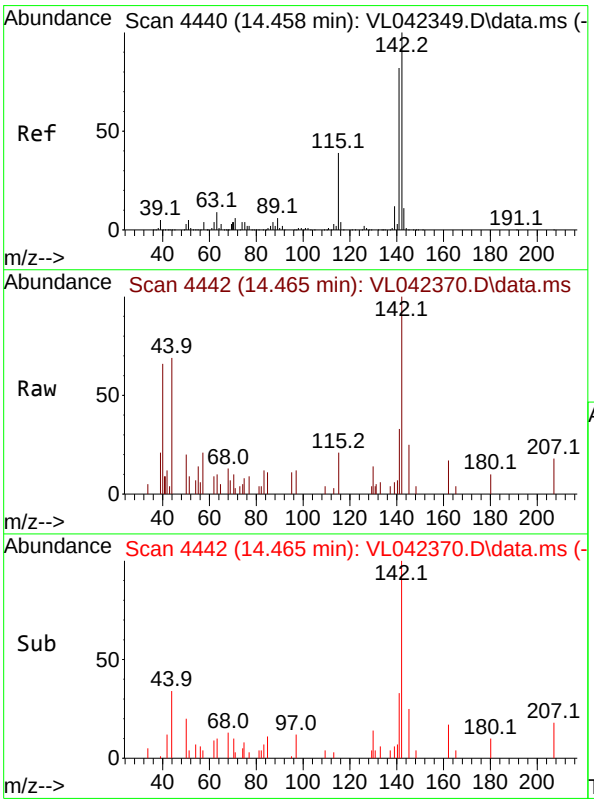
#79
Naphthalene
Concen: 0.364 ppbv
RT: 13.513 min Scan# 41
Delta R.T. 0.000 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025

Tgt Ion:128 Resp: 25684

Ion	Ratio	Lower	Upper
128	100		
127	14.7	10.6	15.8
129	11.7	8.6	12.8

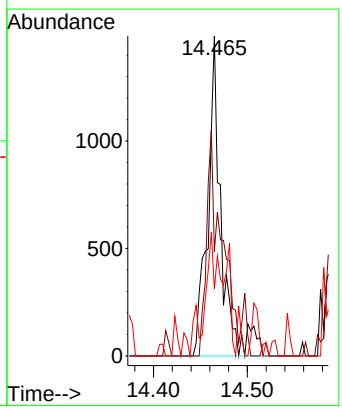




#80
Naphthalene,2-methyl-
Concen: 0.037 ppbv
RT: 14.465 min Scan# 4442
Delta R.T. 0.007 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

Tgt Ion:142 Resp: 1496

Ion	Ratio	Lower	Upper
142	100		
141	85.2	66.8	100.2
115	75.7	33.4	50.2#



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042371.D
Acq On : 17 Apr 2025 22:52
Operator : SY/MD
Sample : Q1726-06
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025

Quant Time: Apr 18 02:45:58 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	2.787	49	113154	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.959	114	322735	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.882	117	284478	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.377	95	237949	10.179	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 101.800%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.499	85	9517	0.476	ppbv		98
3) Chlorodifluoromethane	1.466	51	70640	3.711	ppbv	#	62
4) Chloromethane	1.534	50	9764	1.234	ppbv		98
6) Bromomethane	1.670	94	582	0.157	ppbv		94
7) Chloroethane	1.703	64	262	0.084	ppbv		93
9) Propene	1.560	41	95611	11.028	ppbv		91
10) Heptane	4.981	43	82673	3.394	ppbv		99
11) Trichlorofluoromethane	1.874	101	4499	0.237	ppbv	#	83
12) 1,1,2-Trichlorotrifluo...	2.140	101	1043	0.067	ppbv	#	64
13) Ethanol	1.722	45	429340	311.565	ppbv		75
15) Acetone	1.835	43	3062508	165.330	ppbv	#	44
16) 1,3-Butadiene	1.622	39	32090	3.622	ppbv	#	16
17) tert-Butyl alcohol	2.272	59	50884	2.217	ppbv		97
19) Isopropyl Alcohol	1.887	45	355287	34.527	ppbv	#	33
20) Methylene Chloride	2.062	84	22966	3.166	ppbv		89
21) Allyl Chloride	2.046	41	4920	0.385	ppbv	#	35
23) Vinyl Acetate	2.457	43	29683	3.959	ppbv	#	78
25) Ethyl Acetate	2.826	43	56098	1.228	ppbv	#	84
26) Hexane	2.826	57	65232	3.529	ppbv	#	37
27) Carbon Disulfide	2.149	76	1709	0.086	ppbv	#	41
29) Chloroform	2.852	83	3991	0.153	ppbv		86
30) Cyclohexane	3.855	84	16571	1.109	ppbv	#	84
34) 2-Butanone	2.560	43	54027	2.117	ppbv		99
35) Carbon Tetrachloride	3.764	117	2319	0.079	ppbv		84
36) Benzene	3.661	78	36905	1.060	ppbv		96
37) 1,2-Dichloroethane	3.221	62	4782	0.229	ppbv		97
39) 1,2-Dichloropropane	3.962	63	85836	6.617	ppbv	#	22
41) Tetrahydrofuran	3.065	42	5065	0.340	ppbv	#	78
43) Methyl Methacrylate	4.891	69	807	0.051	ppbv	#	1
44) 2,2,4-Trimethylpentane	4.645	57	567345	9.437	ppbv		95
50) 4-Methyl-2-Pentanone	5.765	43	2416	0.057	ppbv	#	39
51) 2-Hexanone	7.422	43	28690	0.754	ppbv	#	27
52) Tetrachloroethene	8.228	164	1390	0.103	ppbv	#	80
53) Toluene	6.936	91	931135	22.290	ppbv		99
58) Ethyl Benzene	9.357	91	239708	4.253	ppbv		98
59) m/p-Xylene	9.532	91	678219	14.937	ppbv		100
60) o-Xylene	9.966	91	265965	5.817	ppbv		99
61) Styrene	9.872	104	8564	0.392	ppbv		95
62) Isopropylbenzene	10.539	105	26216	0.391	ppbv		99
64) n-propylbenzene	10.992	120	21875	1.296	ppbv		95
65) tert-Butylbenzene	11.536	119	43701	0.708	ppbv	#	68
66) Benzyl Chloride	11.536	91	51402	7.582	ppbv	#	70
67) sec-Butylbenzene	11.772	105	8506	0.099	ppbv	#	73

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042371.D
Acq On : 17 Apr 2025 22:52
Operator : SY/MD
Sample : Q1726-06
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025

Quant Time: Apr 18 02:45:58 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

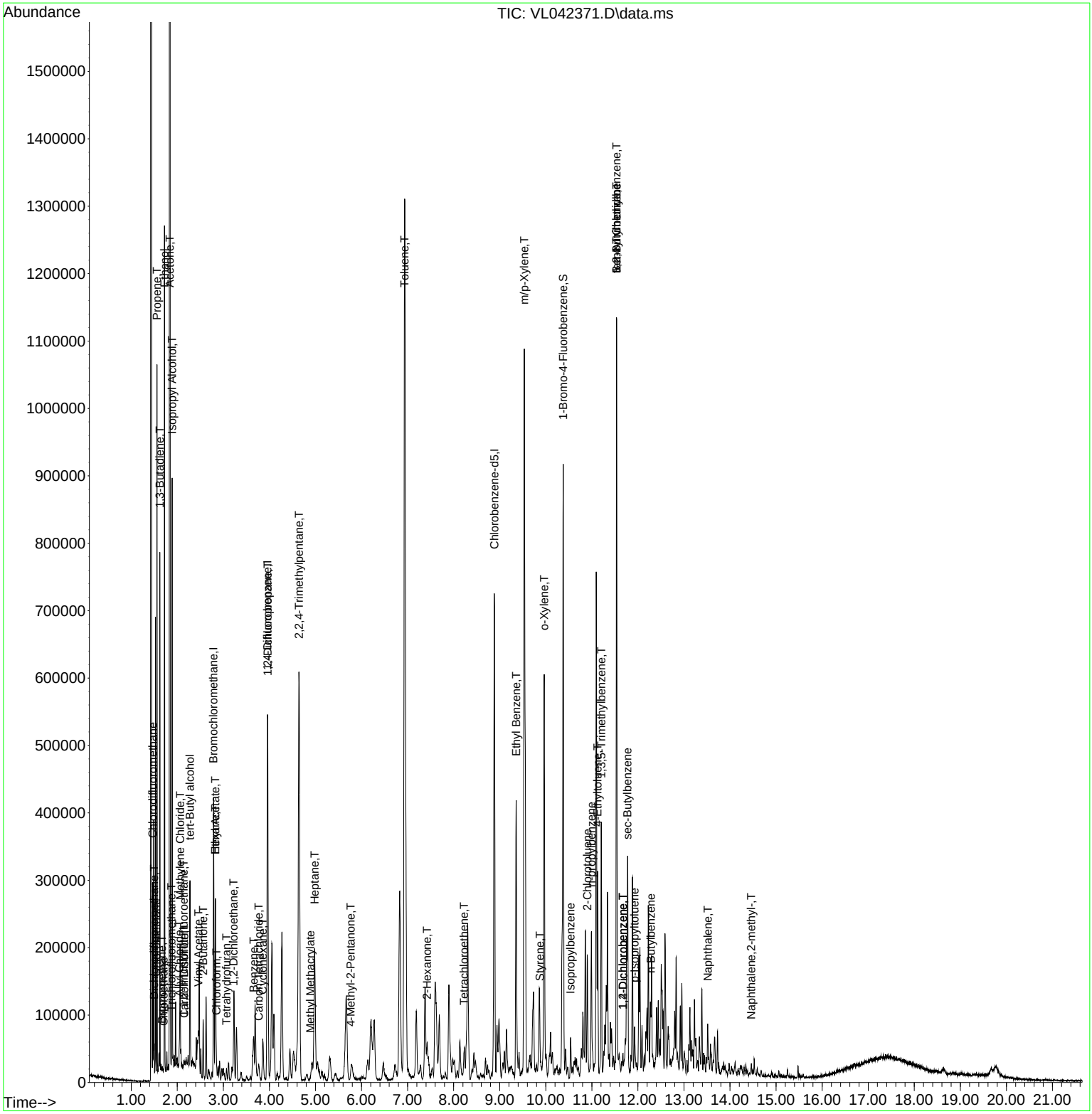
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
69) p-Isopropyltoluene	11.927	119	23201	0.311	ppbv		94
70) n-Butylbenzene	12.283	91	24014	0.309	ppbv	#	74
71) 2-Chlorotoluene	10.901	91	44364	0.843	ppbv		96
72) 4-Ethyltoluene	11.125	105	117824	2.108	ppbv	#	56
73) 1,3,5-Trimethylbenzene	11.205	105	128254	2.599	ppbv		99
74) 1,2,4-Trimethylbenzene	11.536	105	415758	7.213	ppbv	#	63
76) 1,4-Dichlorobenzene	11.675	146	6136	0.204	ppbv		82
77) 1,2-Dichlorobenzene	11.675	146	6136	0.211	ppbv		95
79) Naphthalene	13.516	128	31283	0.454	ppbv	#	95
80) Naphthalene,2-methyl-	14.461	142	5013	0.128	ppbv	#	88

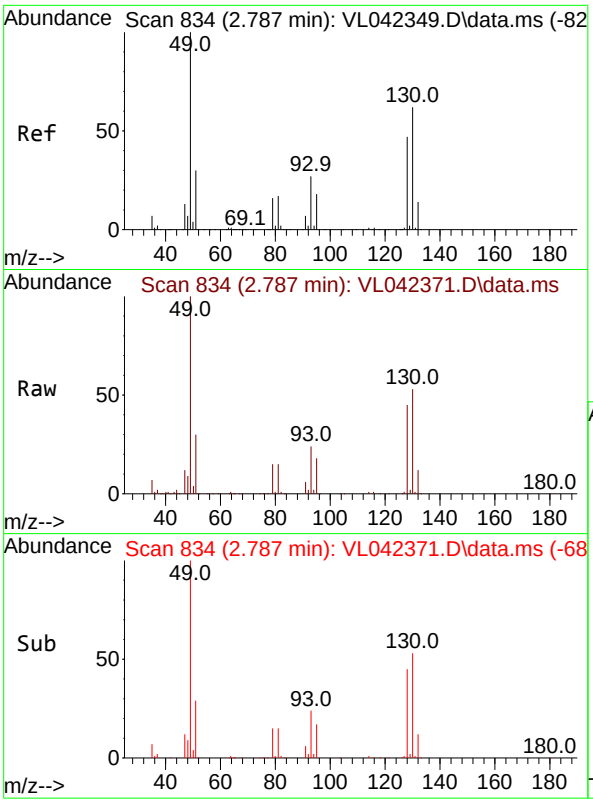
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042371.D
Acq On : 17 Apr 2025 22:52
Operator : SY/MD
Sample : Q1726-06
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025

Quant Time: Apr 18 02:45:58 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



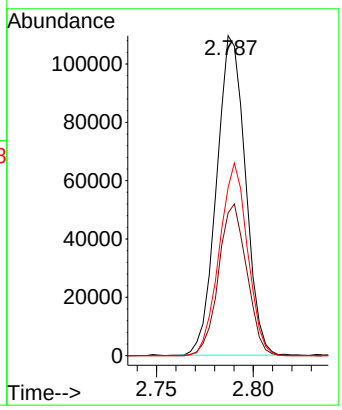


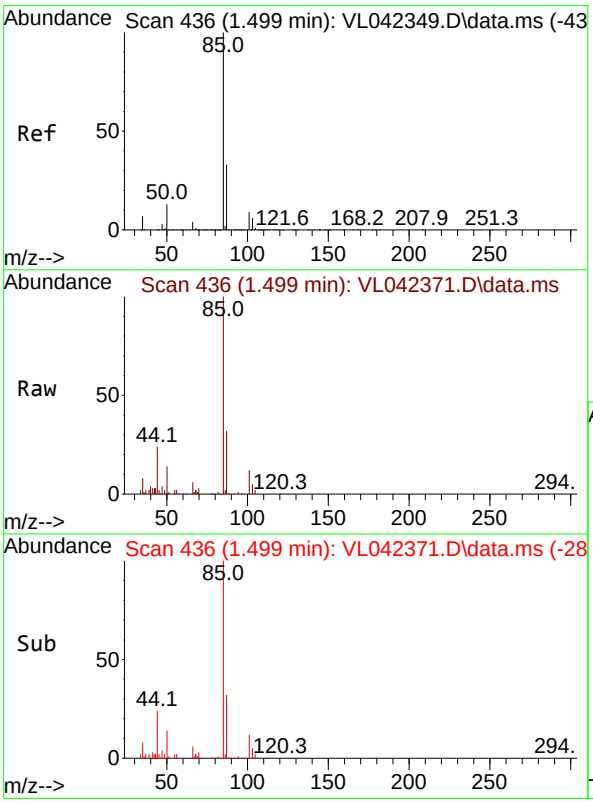
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL042371.D
Acq: 17 Apr 2025 22:52

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025

Tgt Ion: 49 Resp: 113154

Ion	Ratio	Lower	Upper
49	100		
128	46.5	22.8	68.4
130	59.1	29.3	88.0

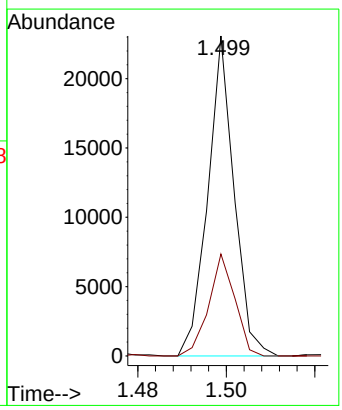


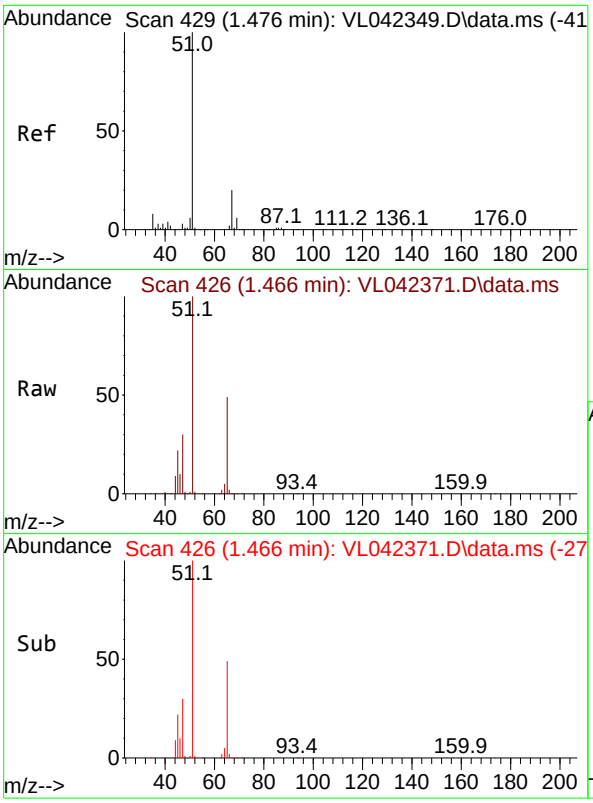


#2
Dichlorodifluoromethane
Concen: 0.476 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.000 min
Lab File: VL042371.D
Acq: 17 Apr 2025 22:52

Tgt Ion: 85 Resp: 9517

Ion	Ratio	Lower	Upper
85	100		
87	31.9	26.6	39.8



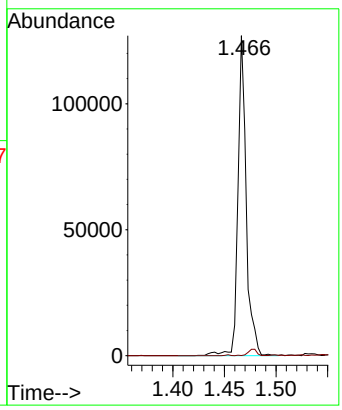


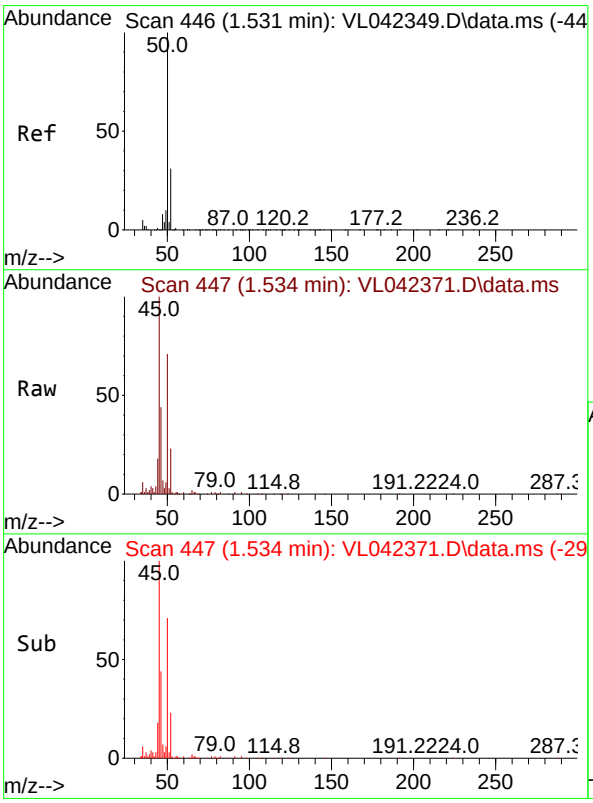
#3
Chlorodifluoromethane
Concen: 3.711 ppbv
RT: 1.466 min Scan# 4
Delta R.T. -0.010 min
Lab File: VL042371.D
Acq: 17 Apr 2025 22:52

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025

Tgt Ion: 51 Resp: 70640

Ion	Ratio	Lower	Upper
51	100		
67	2.6	16.2	24.4#

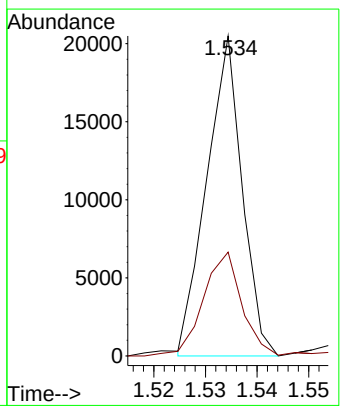


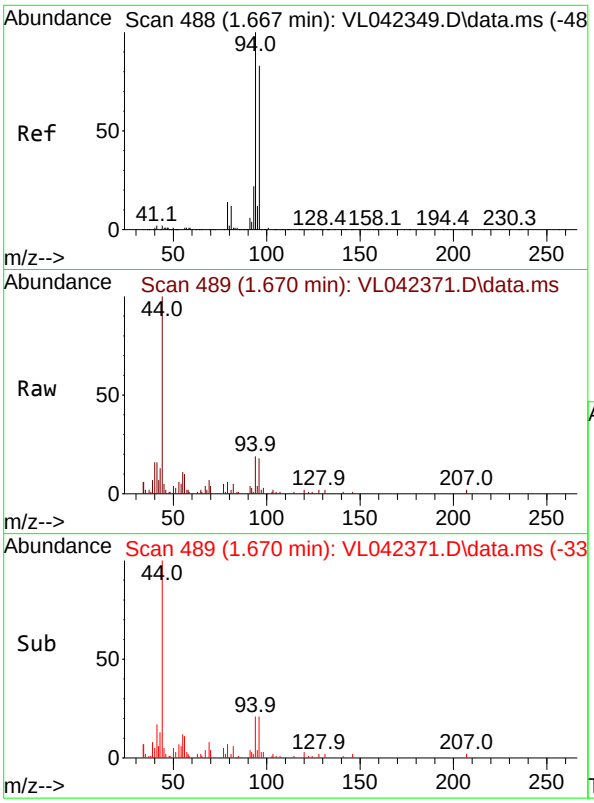


#4
Chloromethane
Concen: 1.234 ppbv
RT: 1.534 min Scan# 447
Delta R.T. 0.003 min
Lab File: VL042371.D
Acq: 17 Apr 2025 22:52

Tgt Ion: 50 Resp: 9764

Ion	Ratio	Lower	Upper
50	100		
52	32.2	24.7	37.1



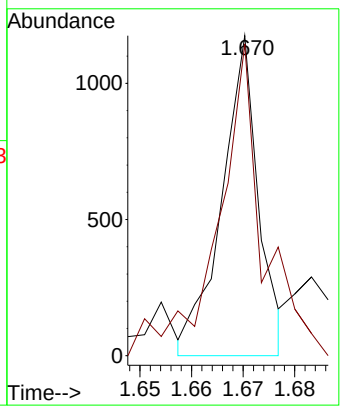


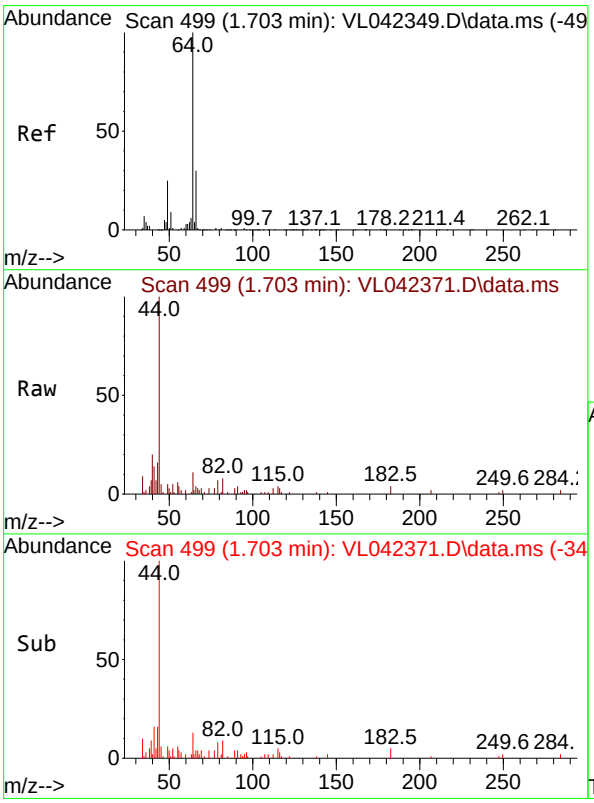
#6
Bromomethane
Concen: 0.157 ppbv
RT: 1.670 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL042371.D
Acq: 17 Apr 2025 22:52

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025

Tgt Ion: 94 Resp: 582

Ion	Ratio	Lower	Upper
94	100		
96	87.7	66.2	99.2

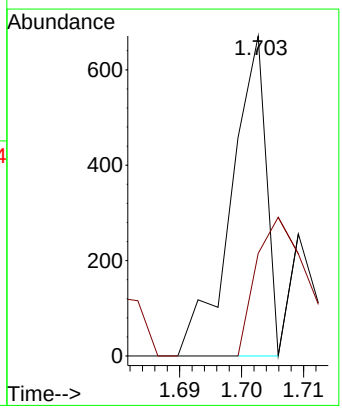


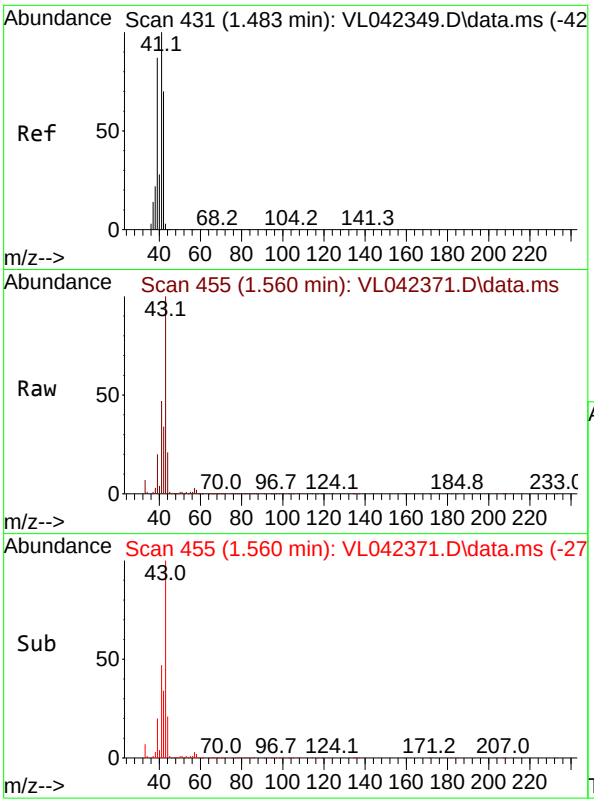


#7
Chloroethane
Concen: 0.084 ppbv
RT: 1.703 min Scan# 499
Delta R.T. -0.000 min
Lab File: VL042371.D
Acq: 17 Apr 2025 22:52

Tgt Ion: 64 Resp: 262

Ion	Ratio	Lower	Upper
64	100		
66	27.0	24.6	37.0



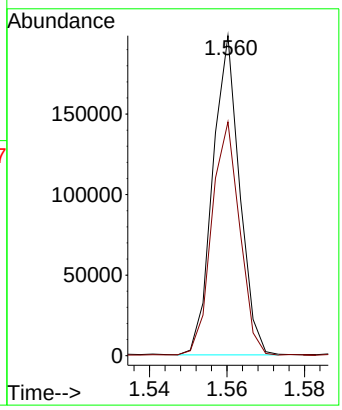


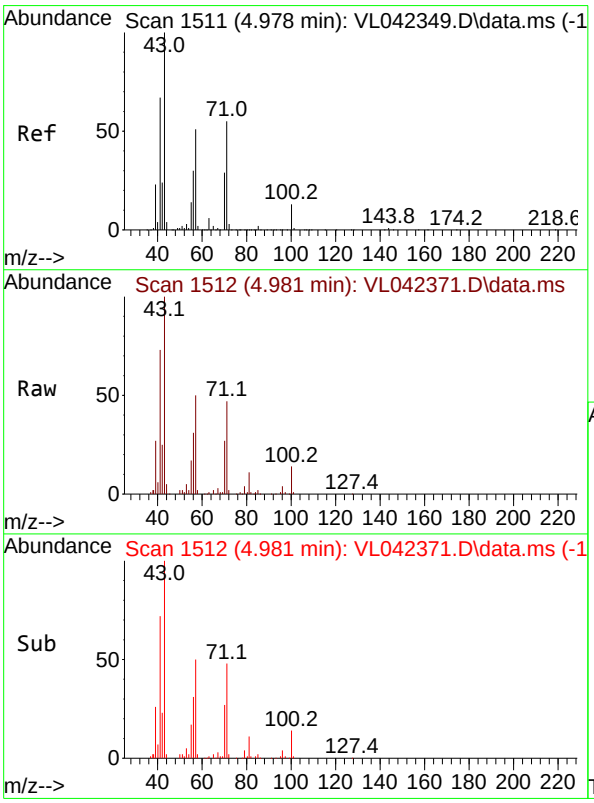
#9
Propene
Concen: 11.028 ppbv
RT: 1.560 min Scan# 4
Delta R.T. 0.078 min
Lab File: VL042371.D
Acq: 17 Apr 2025 22:52

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025

Tgt Ion: 41 Resp: 95611

Ion	Ratio	Lower	Upper
41	100		
42	77.3	56.2	84.4

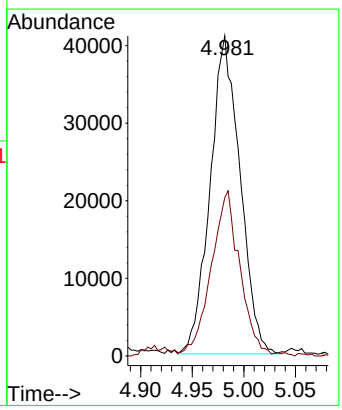


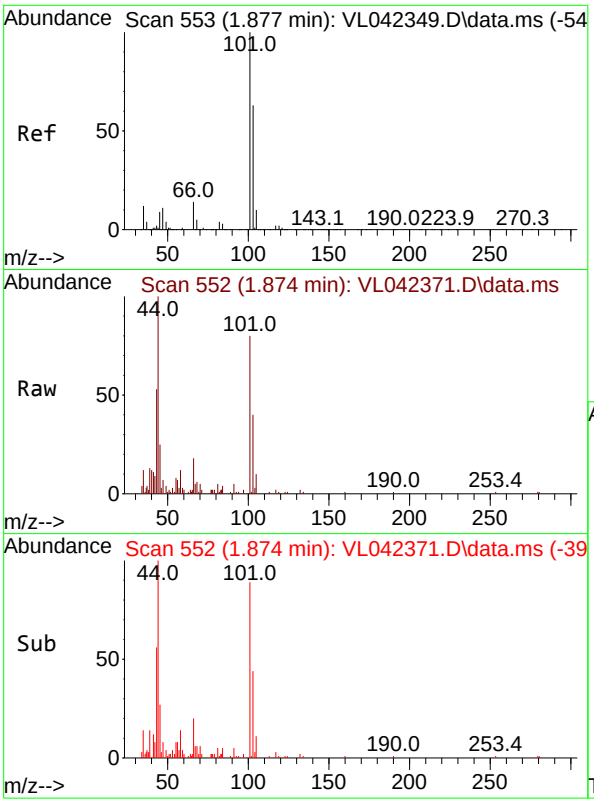


#10
Heptane
Concen: 3.394 ppbv
RT: 4.981 min Scan# 1512
Delta R.T. 0.003 min
Lab File: VL042371.D
Acq: 17 Apr 2025 22:52

Tgt Ion: 43 Resp: 82673

Ion	Ratio	Lower	Upper
43	100		
57	50.3	39.9	59.9



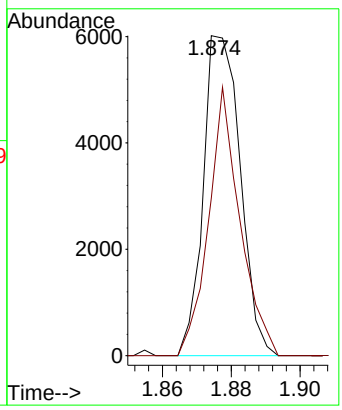


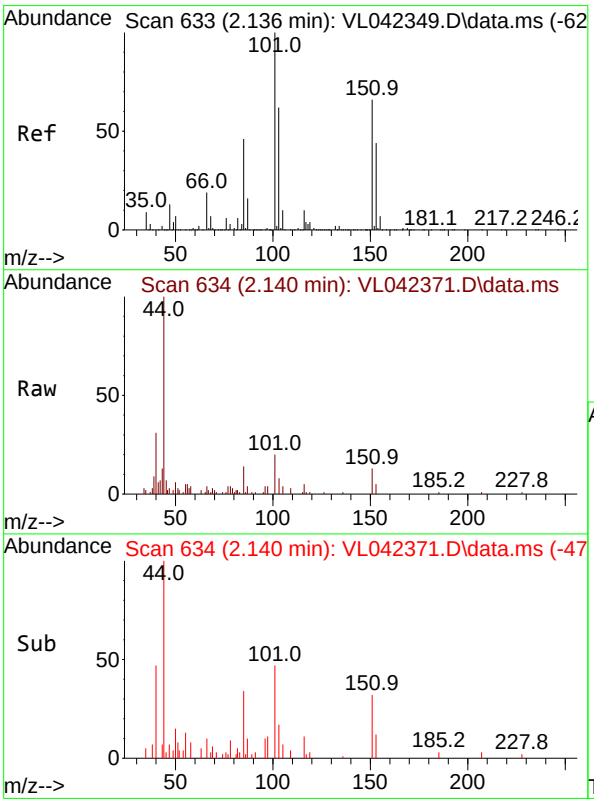
#11
Trichlorofluoromethane
Concen: 0.237 ppbv
RT: 1.874 min Scan# 5
Delta R.T. -0.003 min
Lab File: VL042371.D
Acq: 17 Apr 2025 22:52

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025

Tgt Ion:101 Resp: 4499

Ion	Ratio	Lower	Upper
101	100		
103	49.2	50.1	75.1#

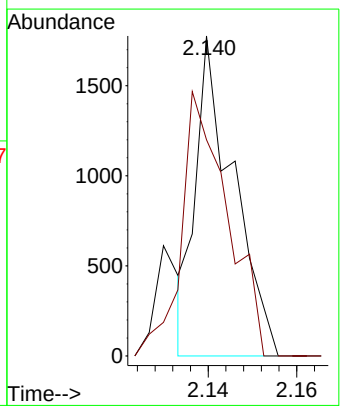


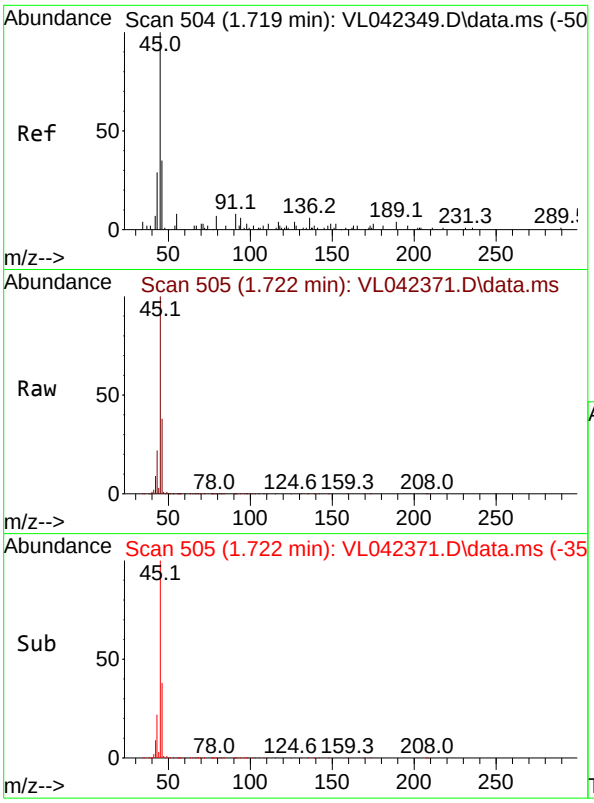


#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.067 ppbv
RT: 2.140 min Scan# 634
Delta R.T. 0.003 min
Lab File: VL042371.D
Acq: 17 Apr 2025 22:52

Tgt Ion:101 Resp: 1043

Ion	Ratio	Lower	Upper
101	100		
151	101.2	57.0	85.6#



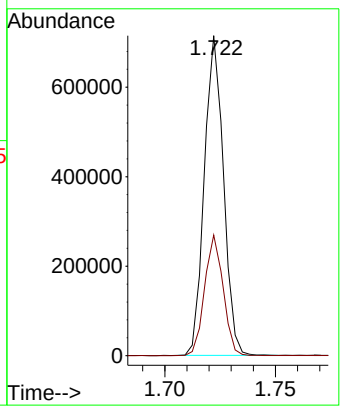


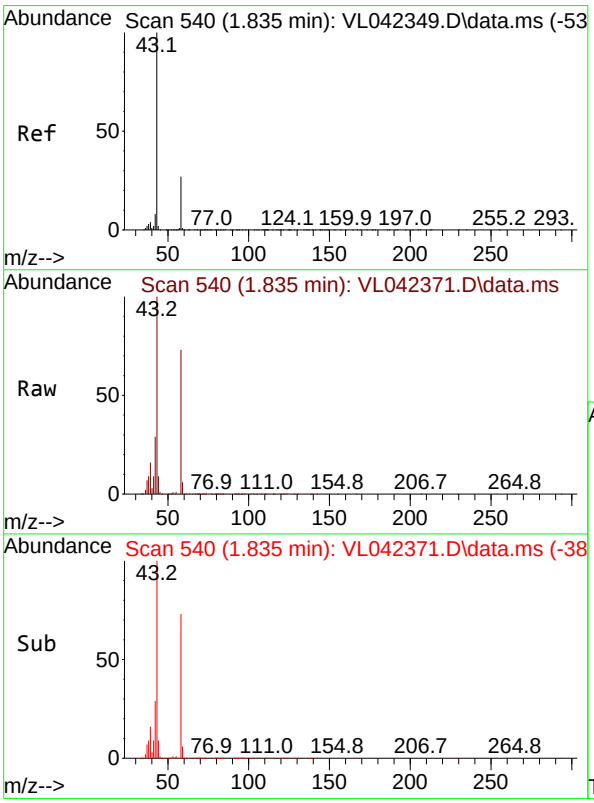
#13
Ethanol
Concen: 311.565 ppbv
RT: 1.722 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042371.D
Acq: 17 Apr 2025 22:52

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025

Tgt Ion: 45 Resp: 429340

Ion	Ratio	Lower	Upper
45	100		
46	36.8	21.9	87.7

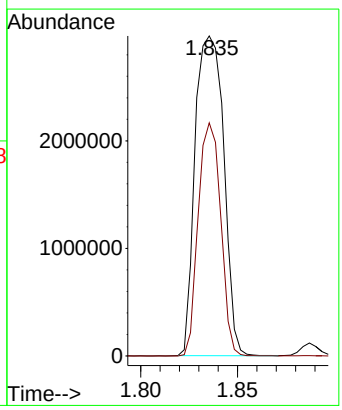


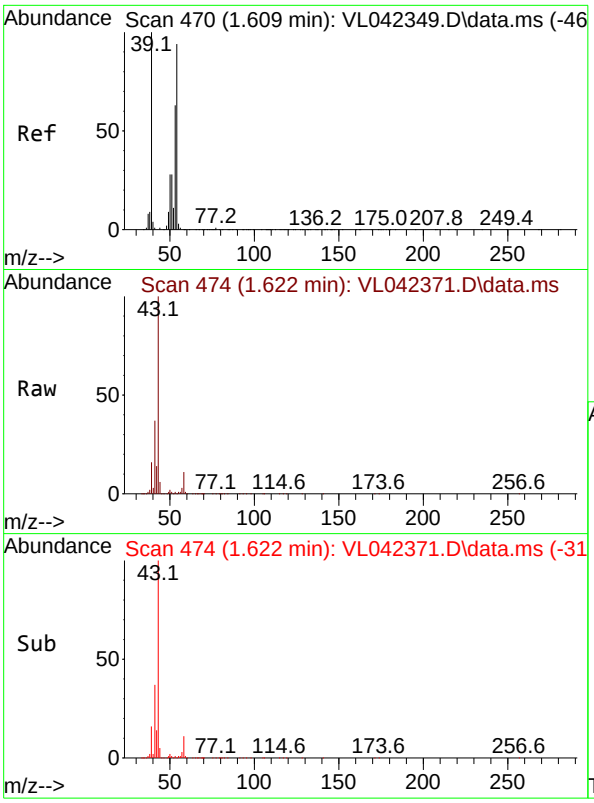


#15
Acetone
Concen: 165.330 ppbv
RT: 1.835 min Scan# 540
Delta R.T. -0.000 min
Lab File: VL042371.D
Acq: 17 Apr 2025 22:52

Tgt Ion: 43 Resp: 3062508

Ion	Ratio	Lower	Upper
43	100		
58	57.3	22.4	33.6#



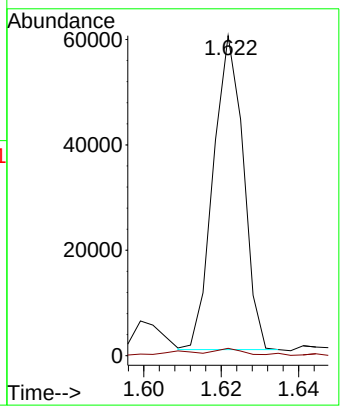


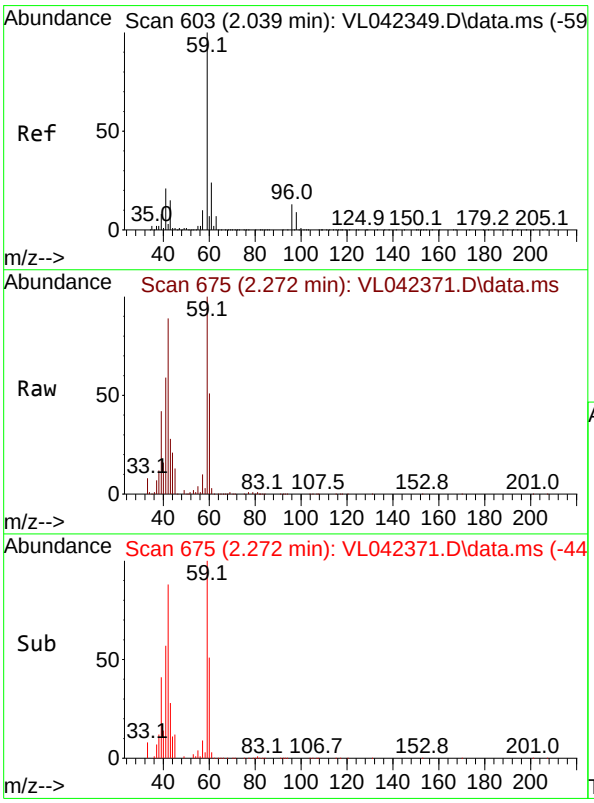
#16
1,3-Butadiene
Concen: 3.622 ppbv
RT: 1.622 min Scan# 4
Delta R.T. 0.013 min
Lab File: VL042371.D
Acq: 17 Apr 2025 22:52

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025

Tgt Ion: 39 Resp: 32090

Ion	Ratio	Lower	Upper
39	100		
54	6.8	64.9	97.3#

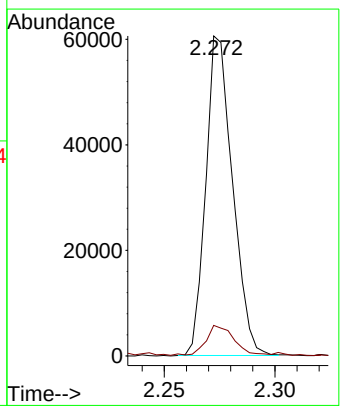


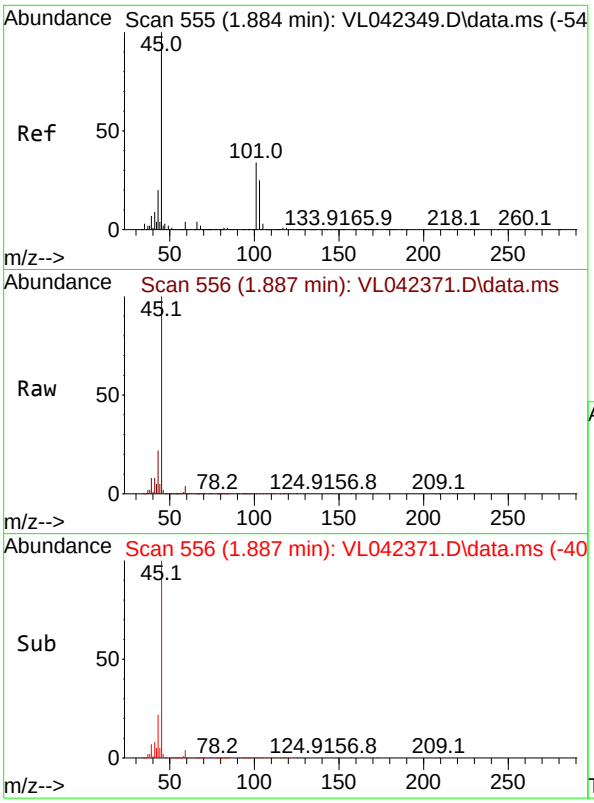


#17
tert-Butyl alcohol
Concen: 2.217 ppbv
RT: 2.272 min Scan# 675
Delta R.T. 0.233 min
Lab File: VL042371.D
Acq: 17 Apr 2025 22:52

Tgt Ion: 59 Resp: 50884

Ion	Ratio	Lower	Upper
59	100		
57	11.9	8.7	13.1



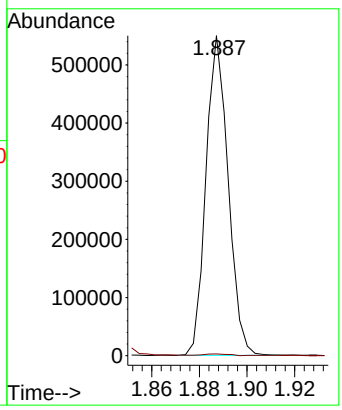


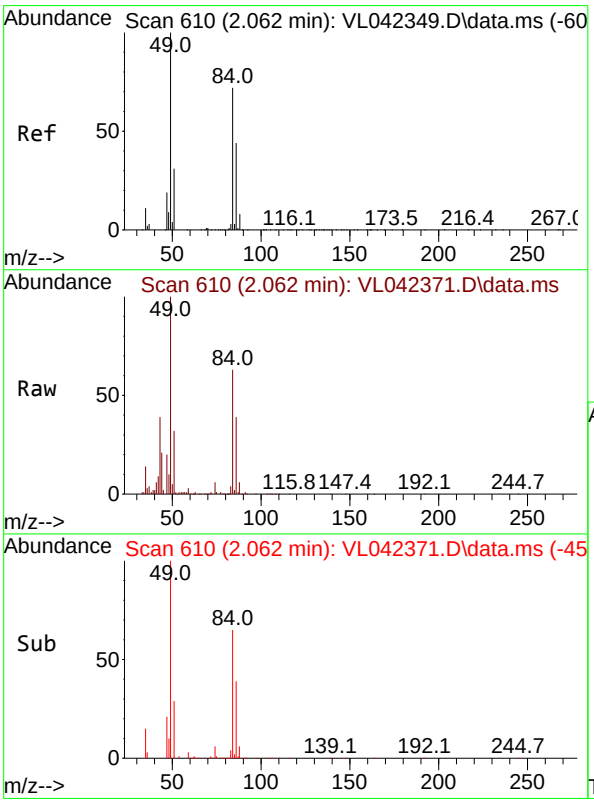
#19
Isopropyl Alcohol
Concen: 34.527 ppbv
RT: 1.887 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042371.D
Acq: 17 Apr 2025 22:52

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025

Tgt Ion: 45 Resp: 355287

Ion	Ratio	Lower	Upper
45	100		
58	0.0	34.5	51.7#

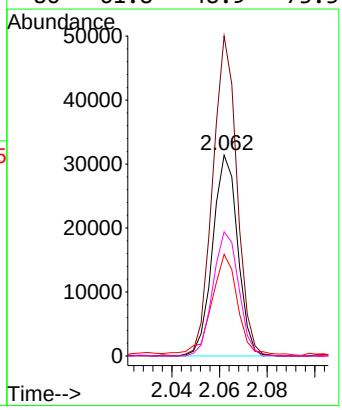


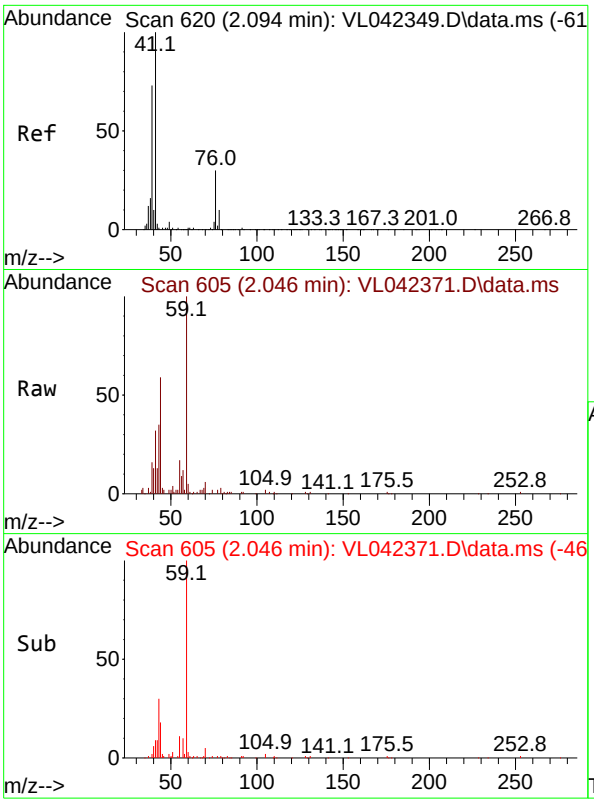


#20
Methylene Chloride
Concen: 3.166 ppbv
RT: 2.062 min Scan# 610
Delta R.T. -0.000 min
Lab File: VL042371.D
Acq: 17 Apr 2025 22:52

Tgt Ion: 84 Resp: 22966

Ion	Ratio	Lower	Upper
84	100		
49	159.3	111.6	167.4
51	49.6	35.1	52.7
86	61.8	48.9	73.3



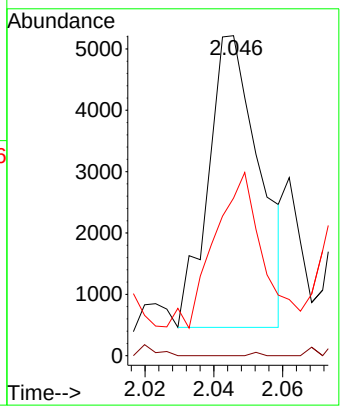


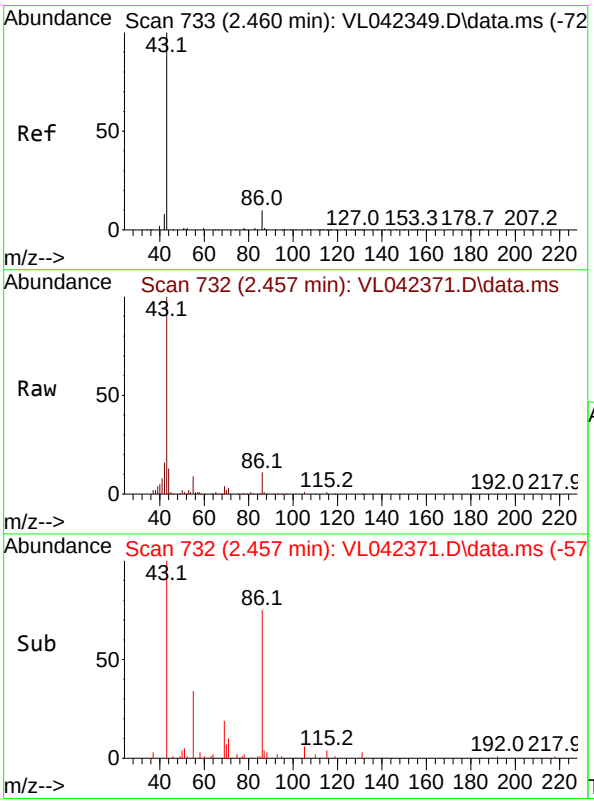
#21
Allyl Chloride
Concen: 0.385 ppbv
RT: 2.046 min Scan# 6
Delta R.T. -0.049 min
Lab File: VL042371.D
Acq: 17 Apr 2025 22:52

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025

Tgt Ion: 41 Resp: 4920

Ion	Ratio	Lower	Upper
41	100		
76	36.0	24.8	37.2
39	0.0	60.6	90.8#

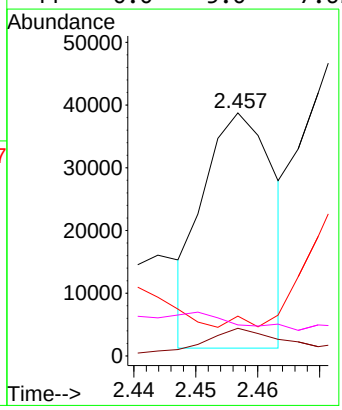


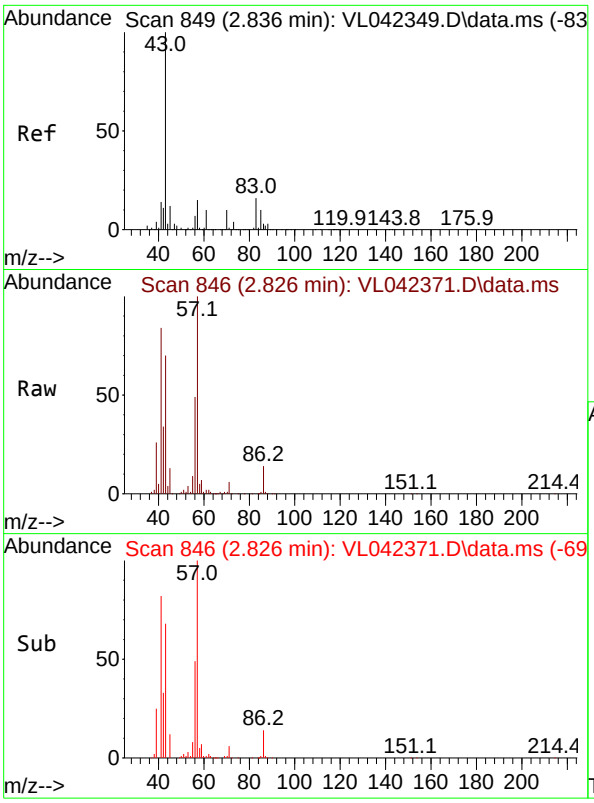


#23
Vinyl Acetate
Concen: 3.959 ppbv
RT: 2.457 min Scan# 732
Delta R.T. -0.003 min
Lab File: VL042371.D
Acq: 17 Apr 2025 22:52

Tgt Ion: 43 Resp: 29683

Ion	Ratio	Lower	Upper
43	100		
86	14.5	6.5	9.7#
42	0.0	7.8	11.8#
44	0.0	5.0	7.6#



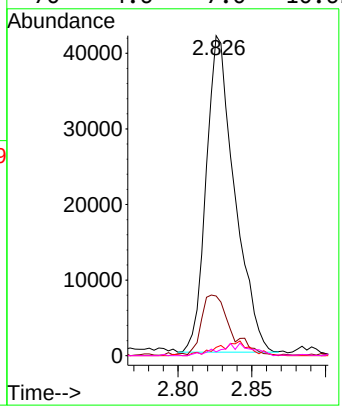


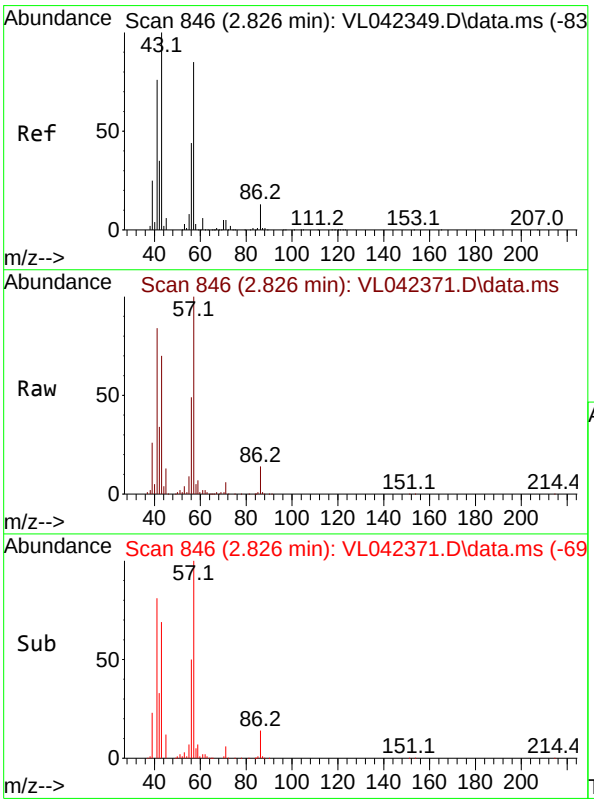
#25
Ethyl Acetate
Concen: 1.228 ppbv
RT: 2.826 min Scan# 84
Delta R.T. -0.010 min
Lab File: VL042371.D
Acq: 17 Apr 2025 22:52

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025

Tgt Ion: 43 Resp: 56098

Ion	Ratio	Lower	Upper
43	100		
45	19.3	8.3	12.5#
61	5.3	7.3	10.9#
70	4.6	7.0	10.6#

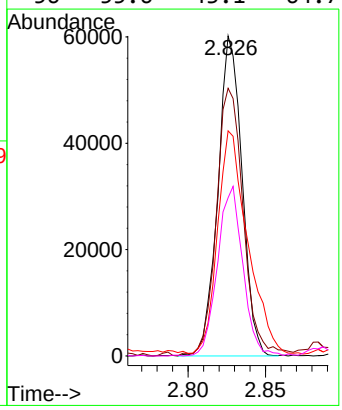


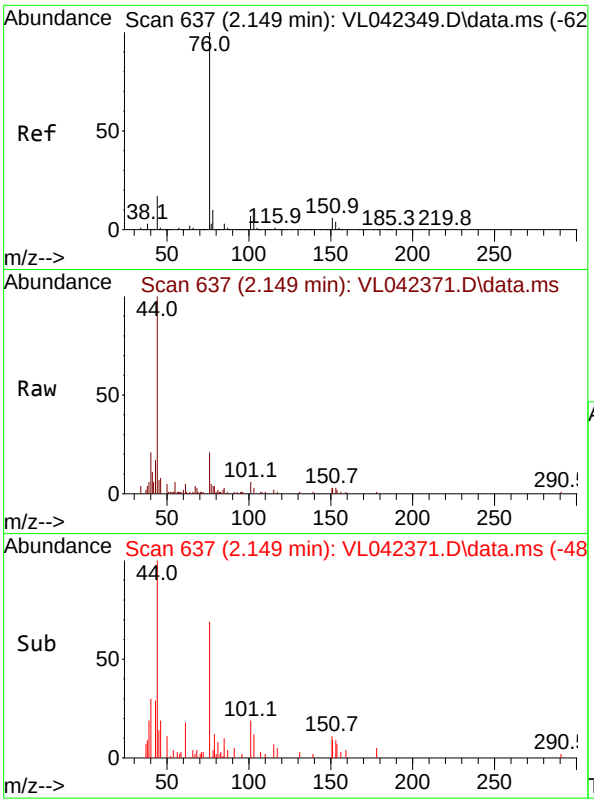


#26
Hexane
Concen: 3.529 ppbv
RT: 2.826 min Scan# 846
Delta R.T. -0.000 min
Lab File: VL042371.D
Acq: 17 Apr 2025 22:52

Tgt Ion: 57 Resp: 65232

Ion	Ratio	Lower	Upper
57	100		
41	92.4	77.9	116.9
43	85.1	208.4	312.6#
56	55.6	43.1	64.7



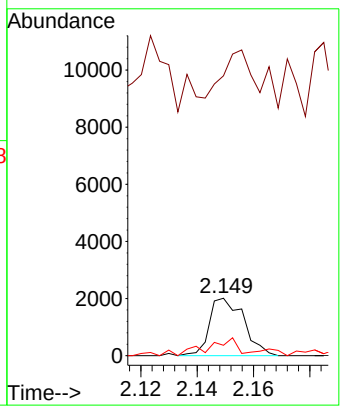


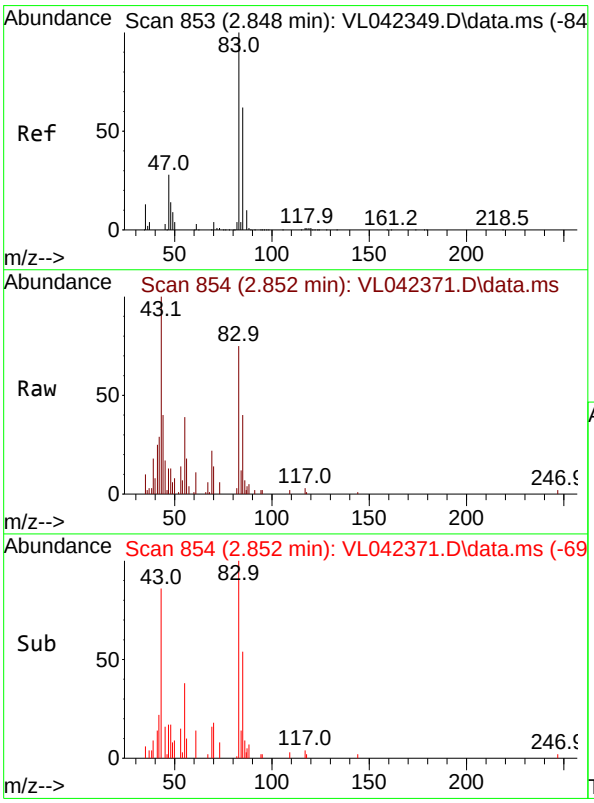
#27
Carbon Disulfide
Concen: 0.086 ppbv
RT: 2.149 min Scan# 6
Delta R.T. 0.000 min
Lab File: VL042371.D
Acq: 17 Apr 2025 22:52

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025

Tgt Ion: 76 Resp: 1709

Ion	Ratio	Lower	Upper
76	100		
44	0.0	15.5	23.3#
78	44.6	9.3	13.9#

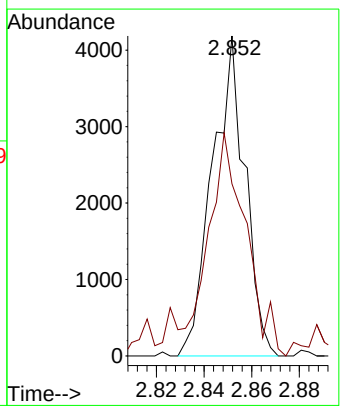


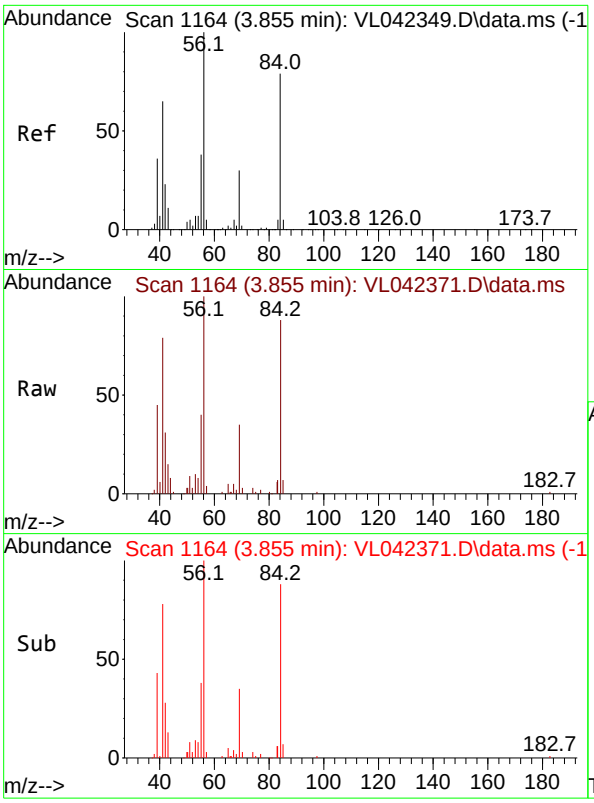


#29
Chloroform
Concen: 0.153 ppbv
RT: 2.852 min Scan# 854
Delta R.T. 0.003 min
Lab File: VL042371.D
Acq: 17 Apr 2025 22:52

Tgt Ion: 83 Resp: 3991

Ion	Ratio	Lower	Upper
83	100		
85	51.6	50.0	75.0



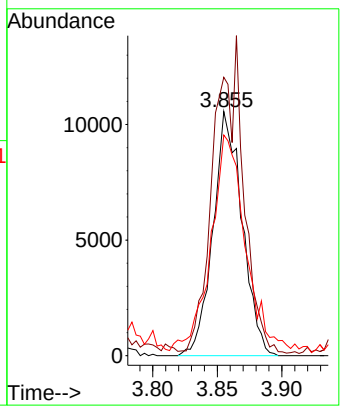


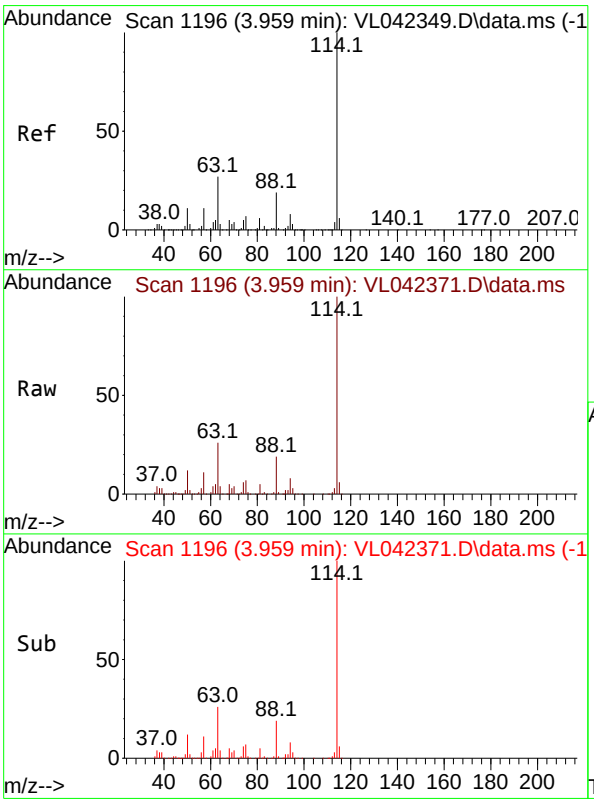
#30
Cyclohexane
Concen: 1.109 ppbv
RT: 3.855 min Scan# 11
Delta R.T. -0.000 min
Lab File: VL042371.D
Acq: 17 Apr 2025 22:52

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025

Tgt Ion: 84 Resp: 16571

Ion	Ratio	Lower	Upper
84	100		
56	136.5	101.0	151.4
41	109.0	67.4	101.0#

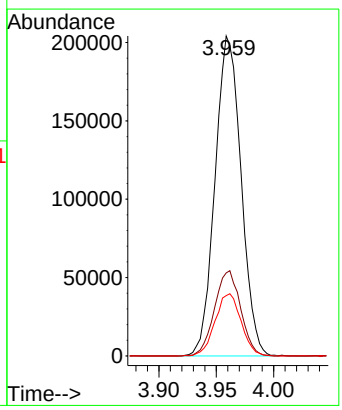


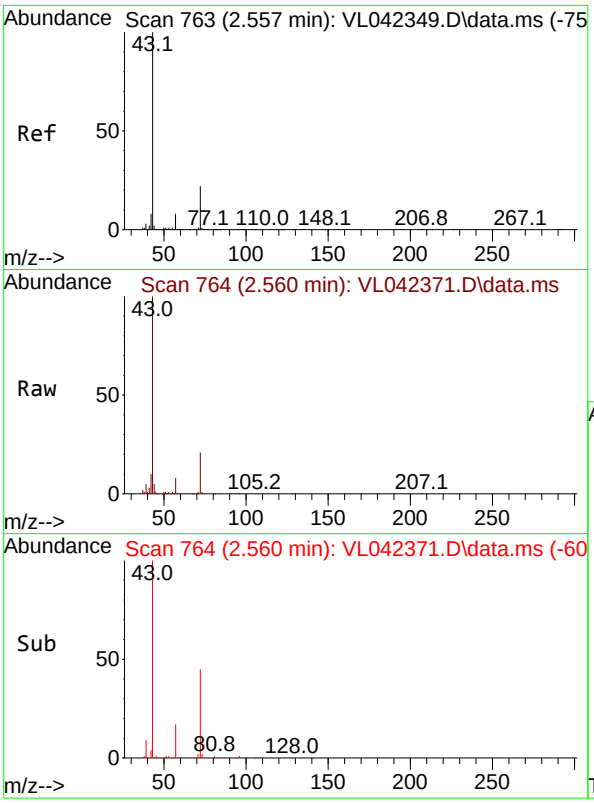


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.959 min Scan# 1196
Delta R.T. -0.000 min
Lab File: VL042371.D
Acq: 17 Apr 2025 22:52

Tgt Ion:114 Resp: 322735

Ion	Ratio	Lower	Upper
114	100		
63	26.7	21.8	32.6
88	19.4	15.5	23.3



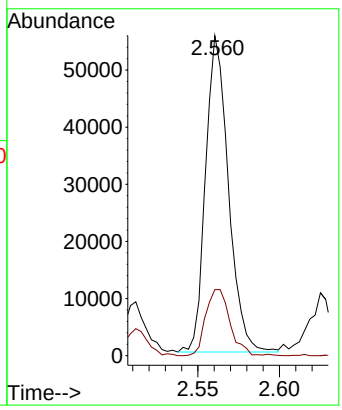


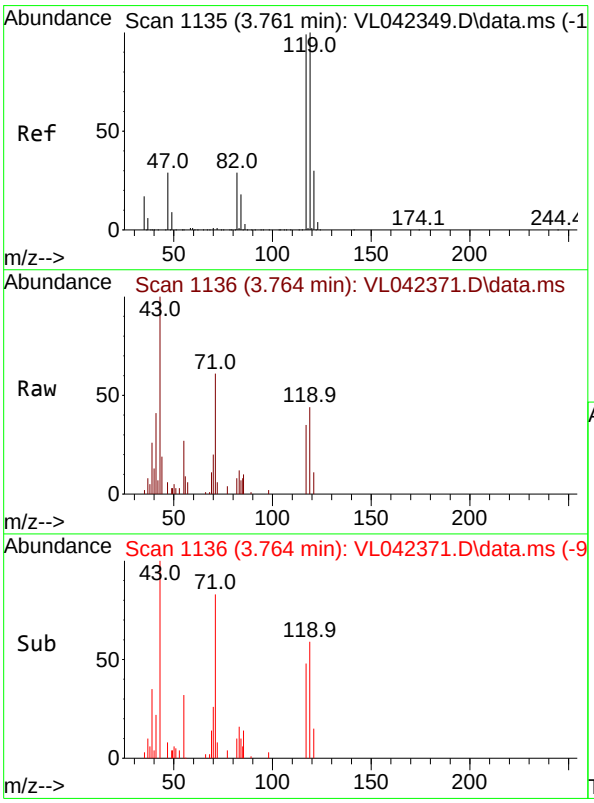
#34
2-Butanone
Concen: 2.117 ppbv
RT: 2.560 min Scan# 7
Delta R.T. 0.003 min
Lab File: VL042371.D
Acq: 17 Apr 2025 22:52

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025

Tgt Ion: 43 Resp: 54027

Ion	Ratio	Lower	Upper
43	100		
72	22.4	18.2	27.2

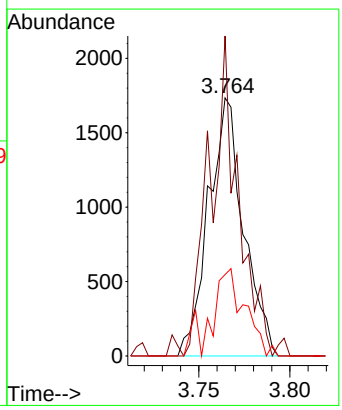


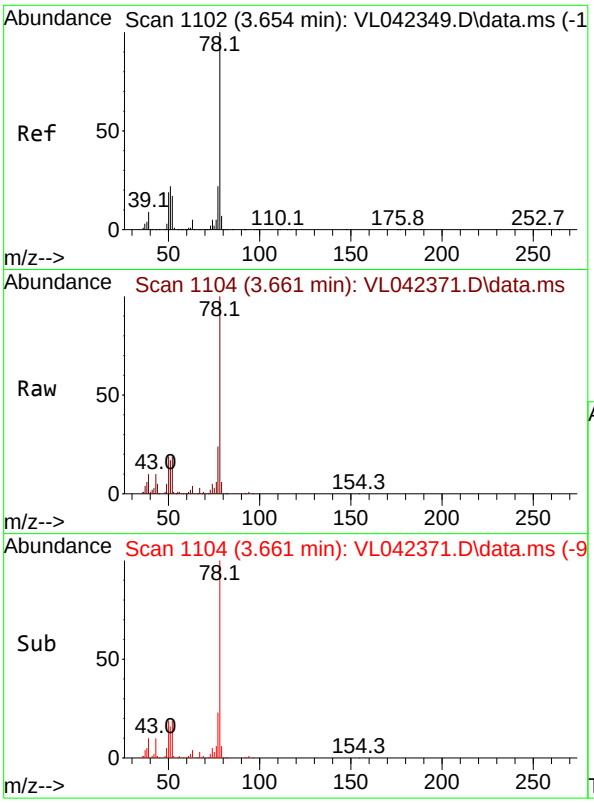


#35
Carbon Tetrachloride
Concen: 0.079 ppbv
RT: 3.764 min Scan# 1136
Delta R.T. 0.003 min
Lab File: VL042371.D
Acq: 17 Apr 2025 22:52

Tgt Ion:117 Resp: 2319

Ion	Ratio	Lower	Upper
117	100		
119	120.2	80.5	120.7
121	31.5	24.2	36.2



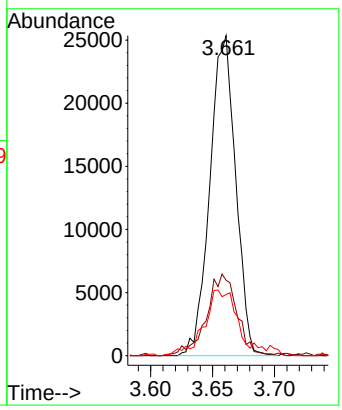


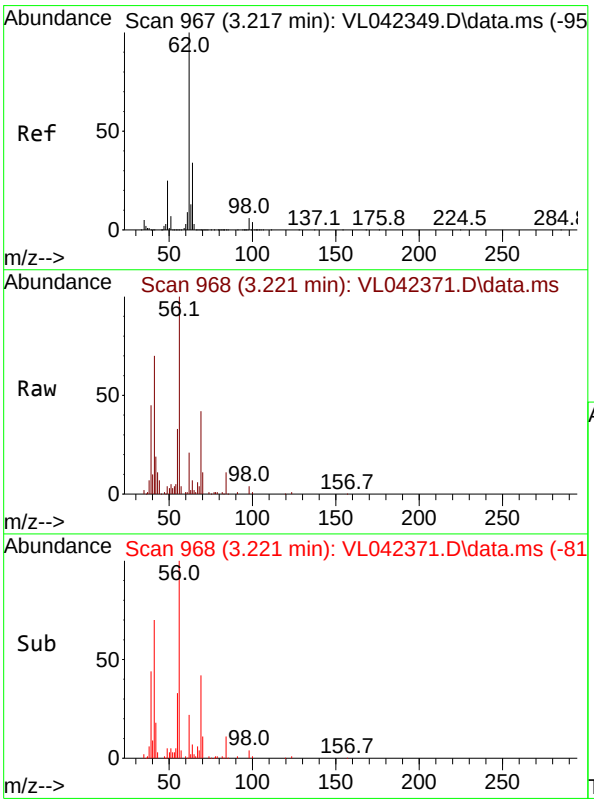
#36
Benzene
Concen: 1.060 ppbv
RT: 3.661 min Scan# 11
Delta R.T. 0.006 min
Lab File: VL042371.D
Acq: 17 Apr 2025 22:52

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025

Tgt Ion: 78 Resp: 36905

Ion	Ratio	Lower	Upper
78	100		
77	22.8	17.4	26.0
50	17.0	15.5	23.3

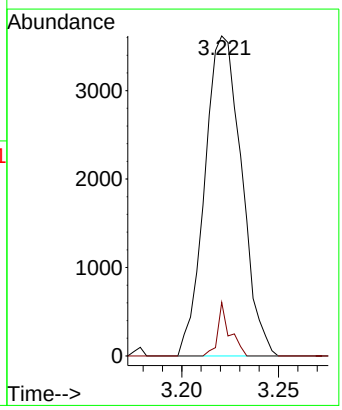


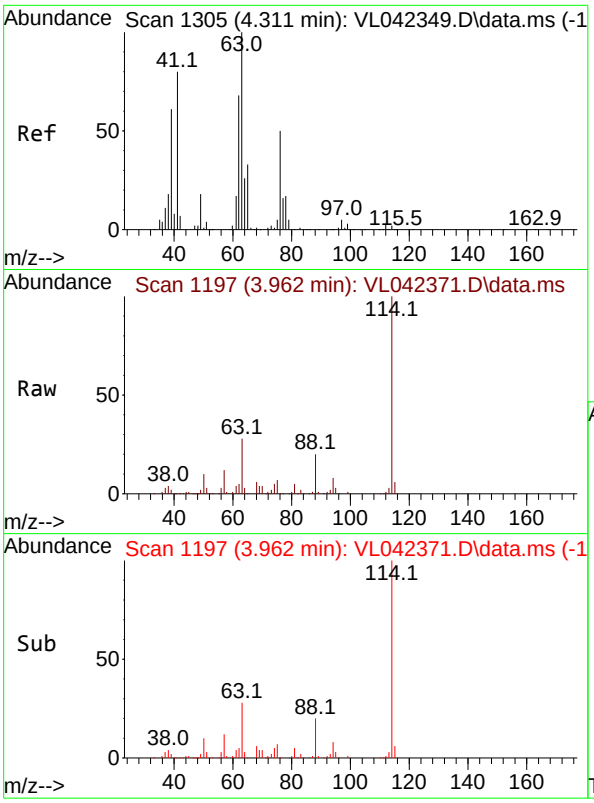


#37
1,2-Dichloroethane
Concen: 0.229 ppbv
RT: 3.221 min Scan# 968
Delta R.T. 0.003 min
Lab File: VL042371.D
Acq: 17 Apr 2025 22:52

Tgt Ion: 62 Resp: 4782

Ion	Ratio	Lower	Upper
62	100		
98	5.4	5.1	7.7



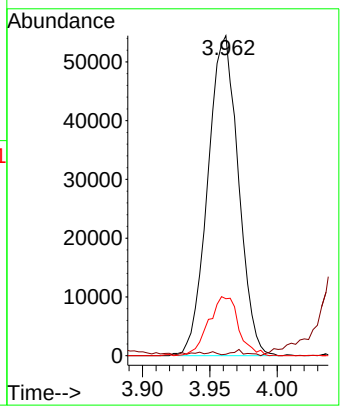


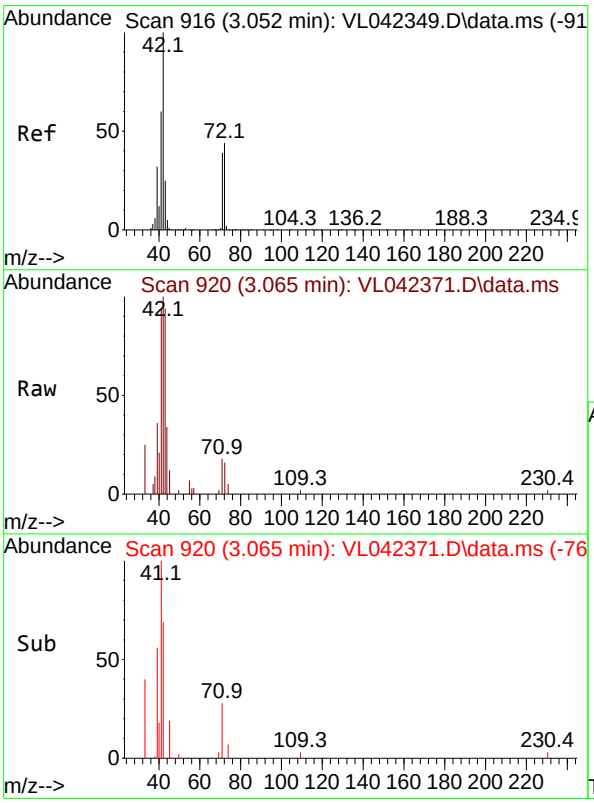
#39
1,2-Dichloropropane
Concen: 6.617 ppbv
RT: 3.962 min Scan# 11
Delta R.T. -0.350 min
Lab File: VL042371.D
Acq: 17 Apr 2025 22:52

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025

Tgt Ion: 63 Resp: 85836

Ion	Ratio	Lower	Upper
63	100		
41	0.0	64.2	96.2#
62	17.8	54.3	81.5#

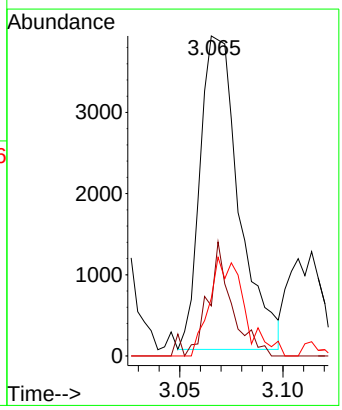


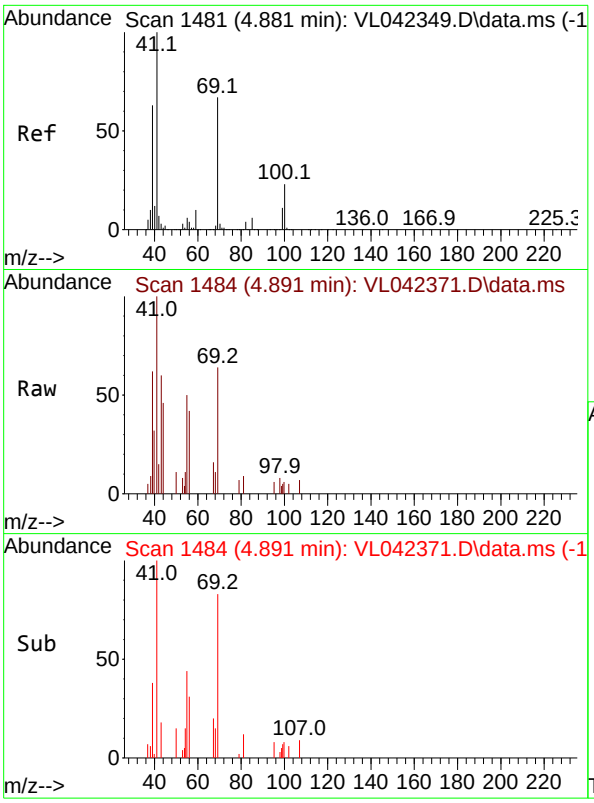


#41
Tetrahydrofuran
Concen: 0.340 ppbv
RT: 3.065 min Scan# 920
Delta R.T. 0.013 min
Lab File: VL042371.D
Acq: 17 Apr 2025 22:52

Tgt Ion: 42 Resp: 5065

Ion	Ratio	Lower	Upper
42	100		
72	23.0	32.3	48.5#
71	29.8	31.4	47.2#



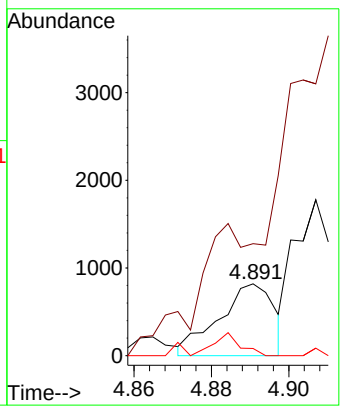


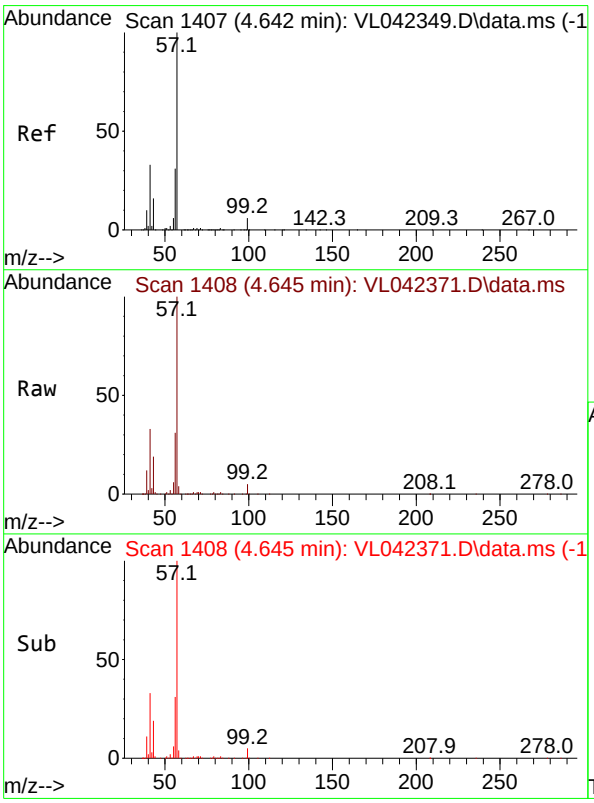
#43
Methyl Methacrylate
Concen: 0.051 ppbv
RT: 4.891 min Scan# 14
Delta R.T. 0.010 min
Lab File: VL042371.D
Acq: 17 Apr 2025 22:52

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025

Tgt Ion: 69 Resp: 807

Ion	Ratio	Lower	Upper
69	100		
41	0.0	118.6	177.8#
100	0.0	28.2	42.2#

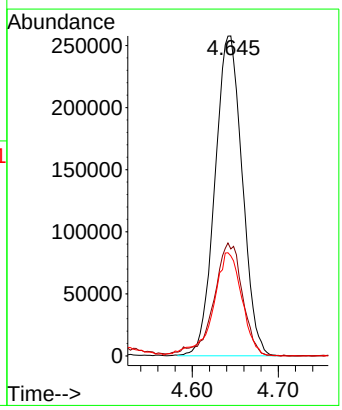


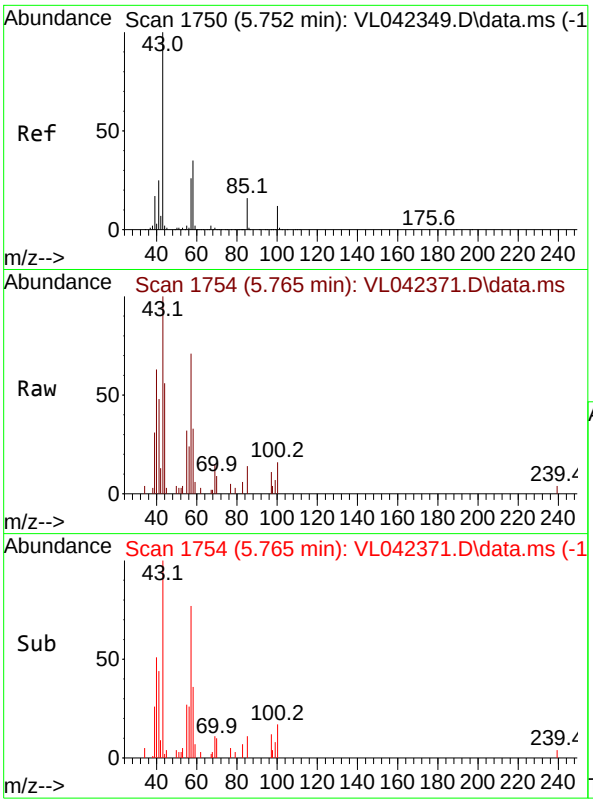


#44
2,2,4-Trimethylpentane
Concen: 9.437 ppbv
RT: 4.645 min Scan# 1408
Delta R.T. 0.003 min
Lab File: VL042371.D
Acq: 17 Apr 2025 22:52

Tgt Ion: 57 Resp: 567345

Ion	Ratio	Lower	Upper
57	100		
41	37.3	27.2	40.8
56	34.4	25.7	38.5



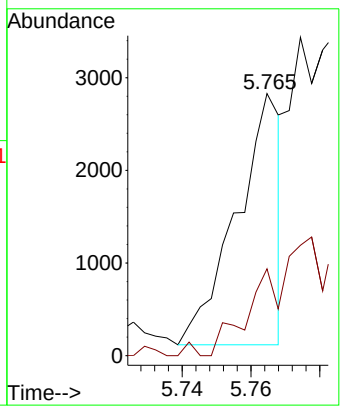


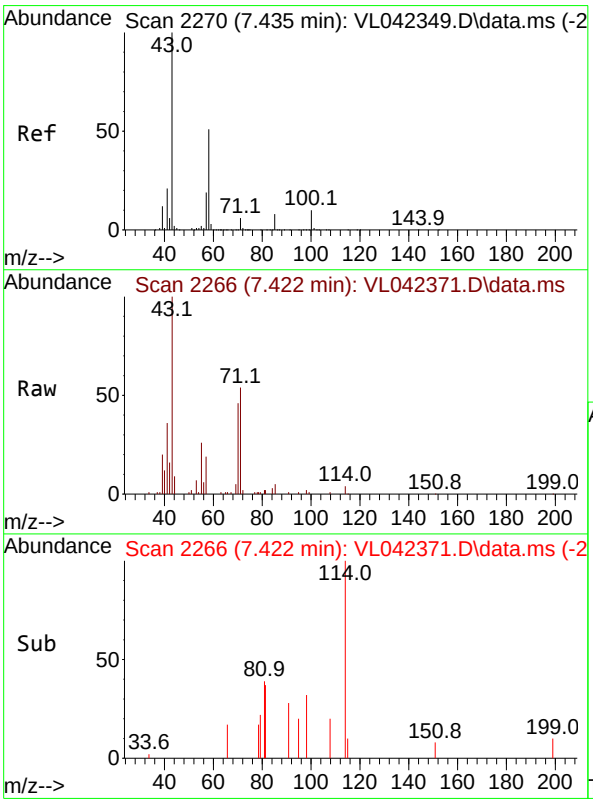
#50
4-Methyl-2-Pentanone
Concen: 0.057 ppbv
RT: 5.765 min Scan# 1
Delta R.T. 0.013 min
Lab File: VL042371.D
Acq: 17 Apr 2025 22:52

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025

Tgt Ion: 43 Resp: 2416

Ion	Ratio	Lower	Upper
43	100		
58	0.0	28.6	43.0#

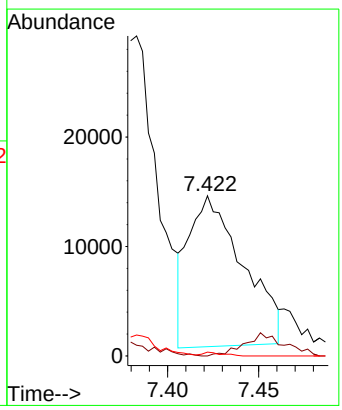


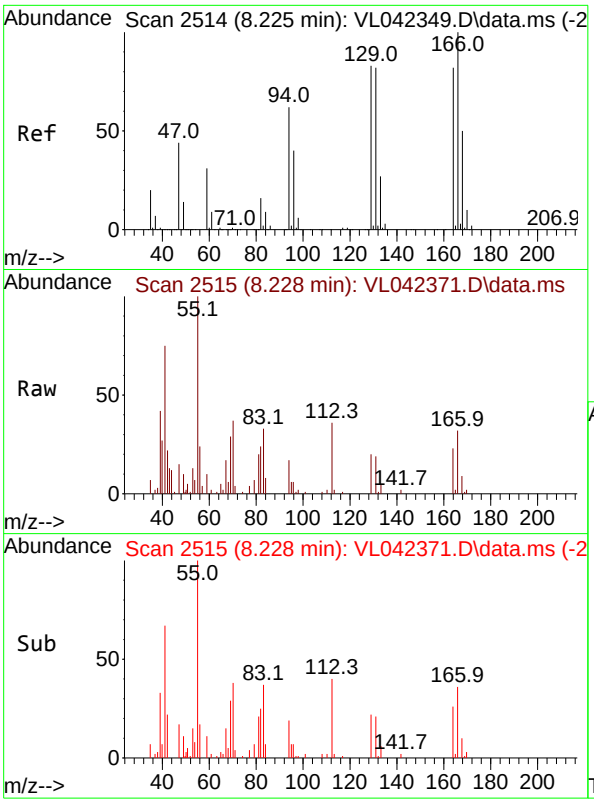


#51
2-Hexanone
Concen: 0.754 ppbv
RT: 7.422 min Scan# 2266
Delta R.T. -0.013 min
Lab File: VL042371.D
Acq: 17 Apr 2025 22:52

Tgt Ion: 43 Resp: 28690

Ion	Ratio	Lower	Upper
43	100		
58	0.0	40.2	60.4#
98	0.0	0.1	0.1#



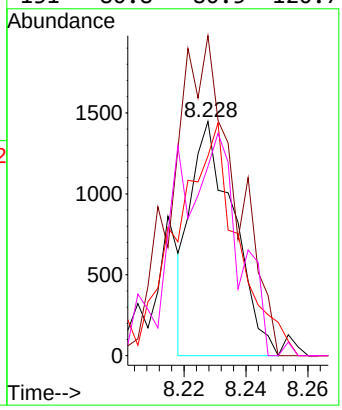


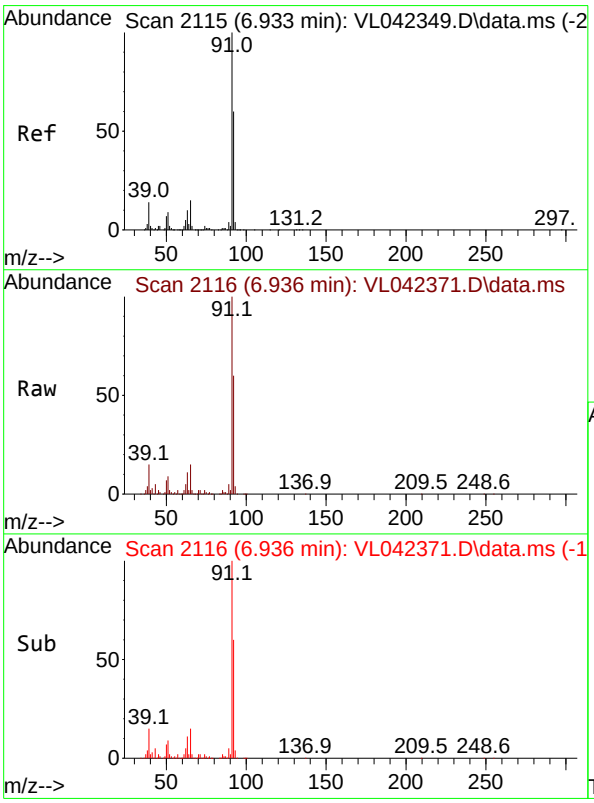
#52
Tetrachloroethene
Concen: 0.103 ppbv
RT: 8.228 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042371.D
Acq: 17 Apr 2025 22:52

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025

Tgt Ion:164 Resp: 1390

Ion	Ratio	Lower	Upper
164	100		
166	136.6	98.2	147.2
129	71.0	81.8	122.8#
131	80.8	80.5	120.7

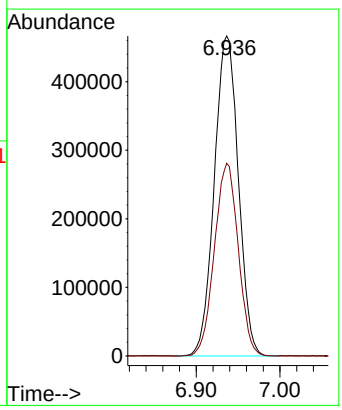


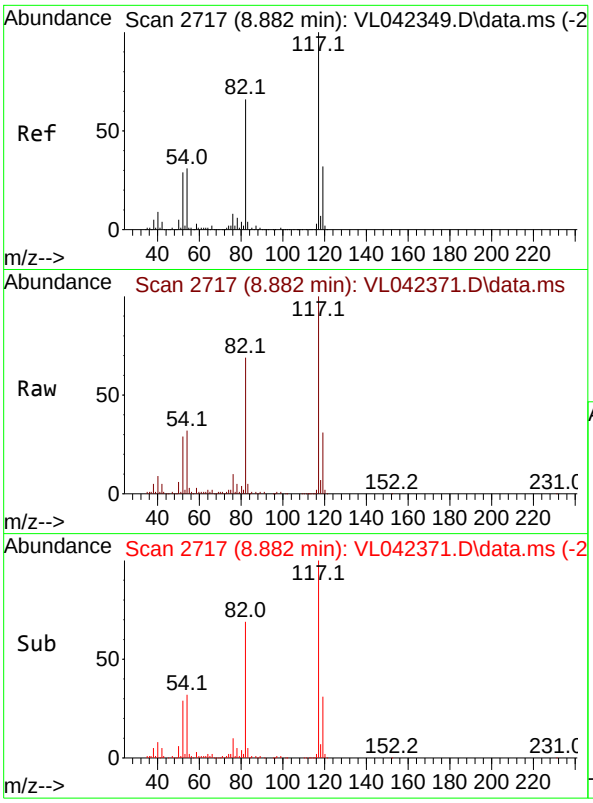


#53
Toluene
Concen: 22.290 ppbv
RT: 6.936 min Scan# 2116
Delta R.T. 0.003 min
Lab File: VL042371.D
Acq: 17 Apr 2025 22:52

Tgt Ion: 91 Resp: 931135

Ion	Ratio	Lower	Upper
91	100		
92	59.7	48.2	72.4



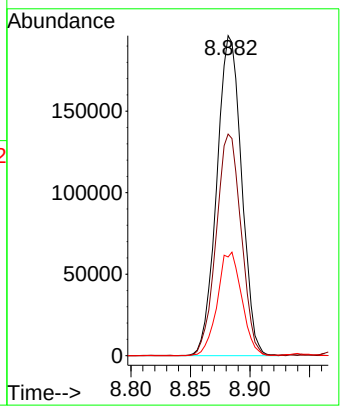


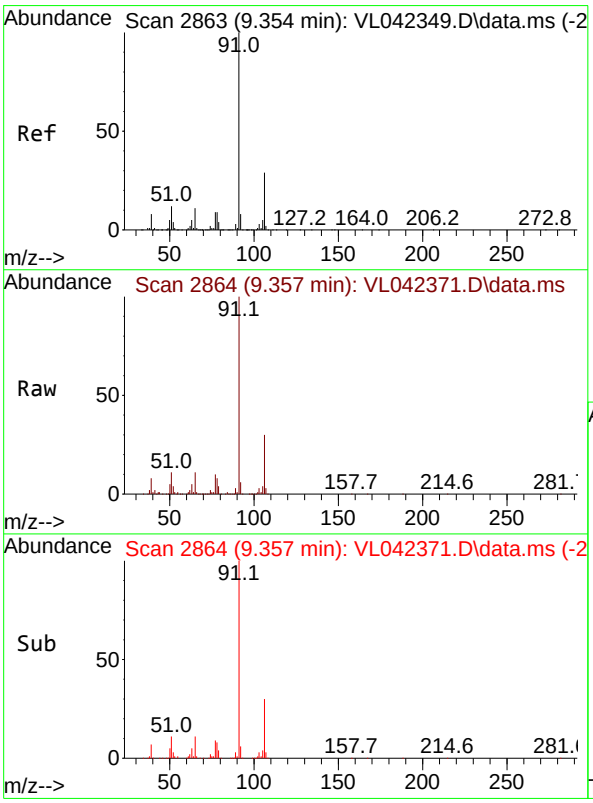
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.882 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL042371.D
Acq: 17 Apr 2025 22:52

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025

Tgt Ion:117 Resp: 284478

Ion	Ratio	Lower	Upper
117	100		
82	69.5	57.8	86.6
119	31.9	25.2	37.8

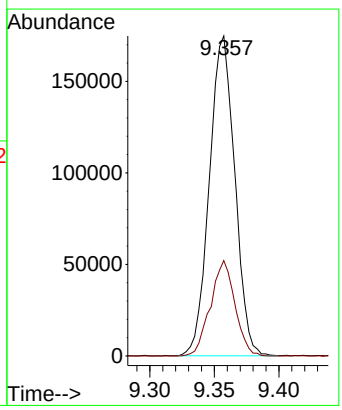


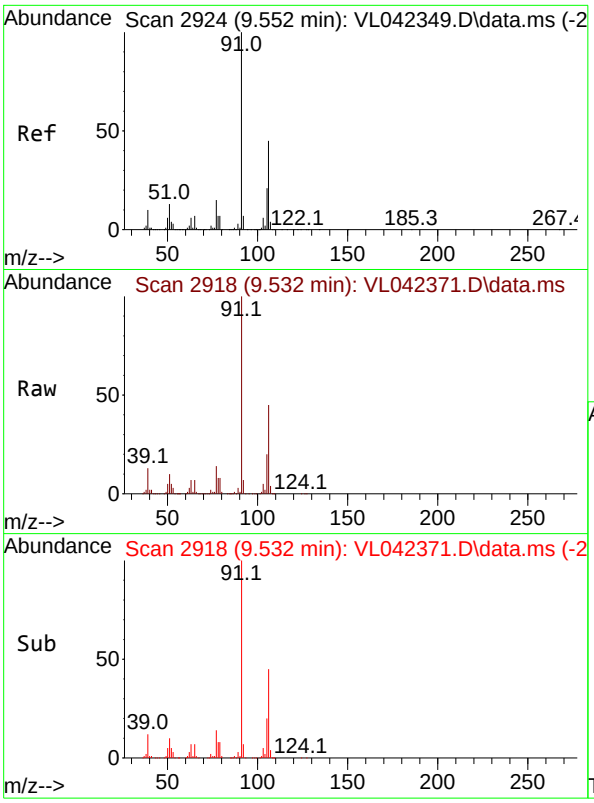


#58
Ethyl Benzene
Concen: 4.253 ppbv
RT: 9.357 min Scan# 2864
Delta R.T. 0.003 min
Lab File: VL042371.D
Acq: 17 Apr 2025 22:52

Tgt Ion: 91 Resp: 239708

Ion	Ratio	Lower	Upper
91	100		
106	29.8	23.0	34.4



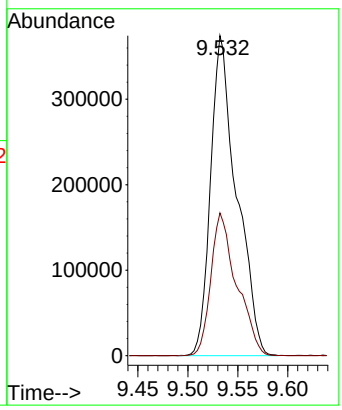


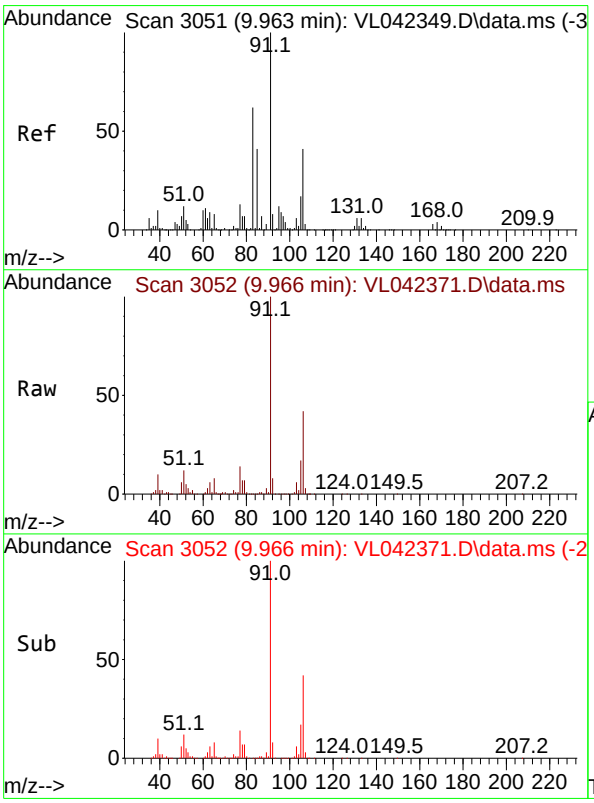
#59
m/p-Xylene
Concen: 14.937 ppbv
RT: 9.532 min Scan# 2
Delta R.T. -0.019 min
Lab File: VL042371.D
Acq: 17 Apr 2025 22:52

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025

Tgt Ion: 91 Resp: 678219

Ion	Ratio	Lower	Upper
91	100		
106	44.2	35.4	53.2

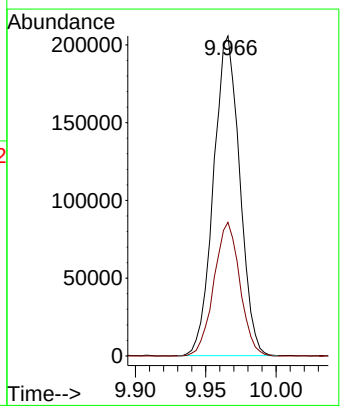


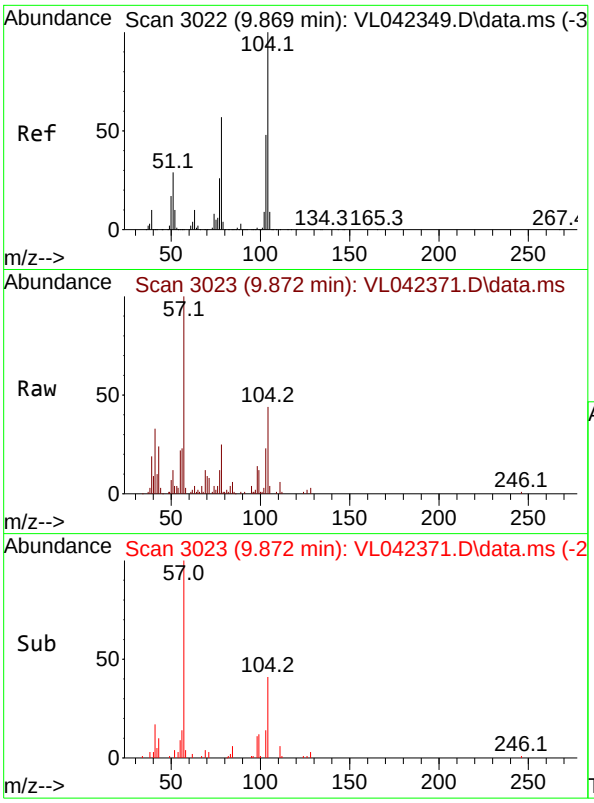


#60
o-Xylene
Concen: 5.817 ppbv
RT: 9.966 min Scan# 3052
Delta R.T. 0.003 min
Lab File: VL042371.D
Acq: 17 Apr 2025 22:52

Tgt Ion: 91 Resp: 265965

Ion	Ratio	Lower	Upper
91	100		
106	41.5	21.1	63.4



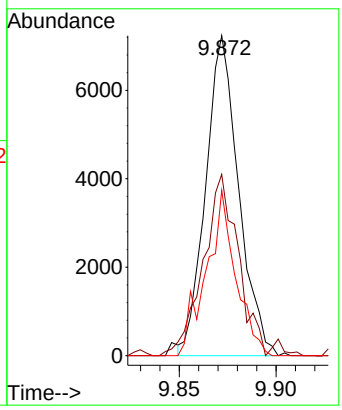


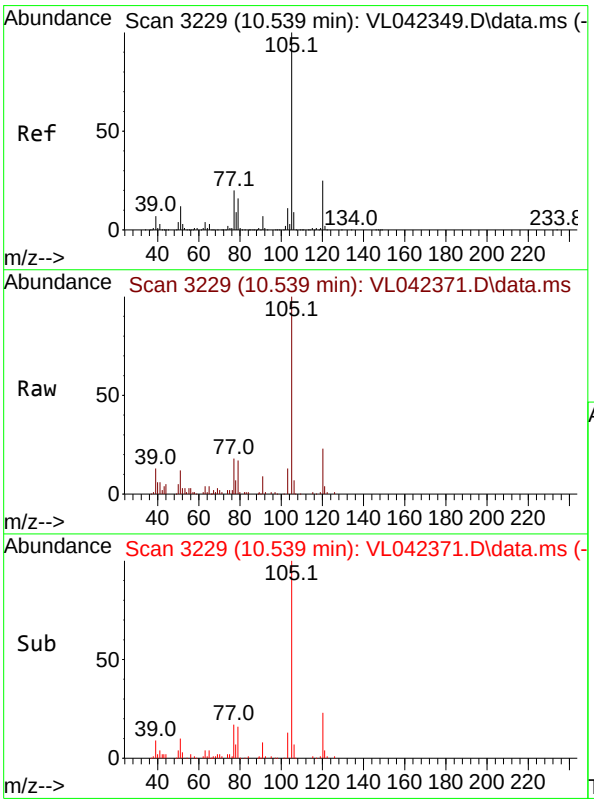
#61
Styrene
Concen: 0.392 ppbv
RT: 9.872 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042371.D
Acq: 17 Apr 2025 22:52

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025

Tgt Ion:104 Resp: 8564

Ion	Ratio	Lower	Upper
104	100		
78	62.3	44.6	66.8
103	46.3	37.4	56.0

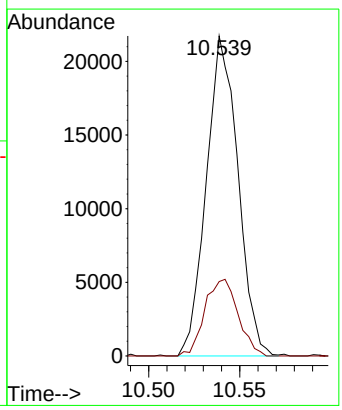


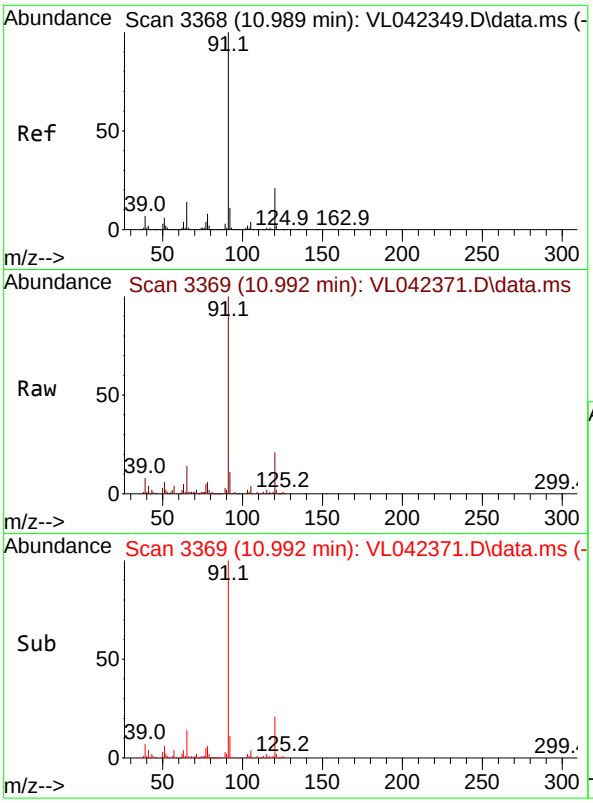


#62
Isopropylbenzene
Concen: 0.391 ppbv
RT: 10.539 min Scan# 3229
Delta R.T. 0.000 min
Lab File: VL042371.D
Acq: 17 Apr 2025 22:52

Tgt Ion:105 Resp: 26216

Ion	Ratio	Lower	Upper
105	100		
120	25.1	19.8	29.8



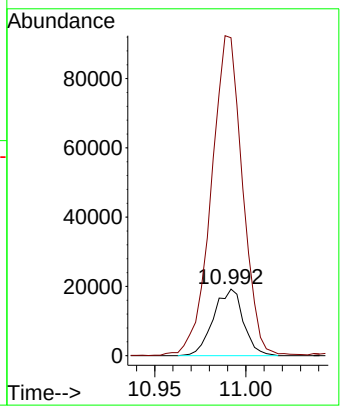


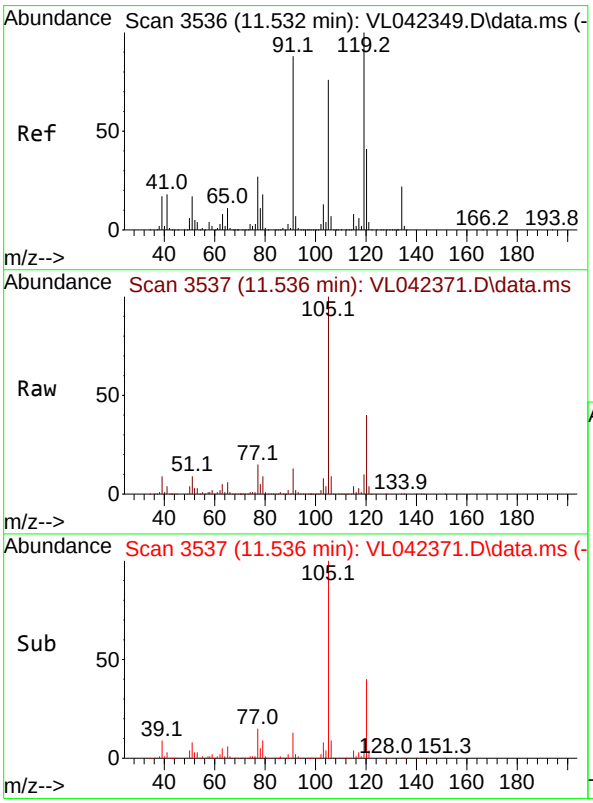
#64
n-propylbenzene
Concen: 1.296 ppbv
RT: 10.992 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042371.D
Acq: 17 Apr 2025 22:52

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025

Tgt Ion:120 Resp: 21875

Ion	Ratio	Lower	Upper
120	100		
91	503.1	392.4	588.6

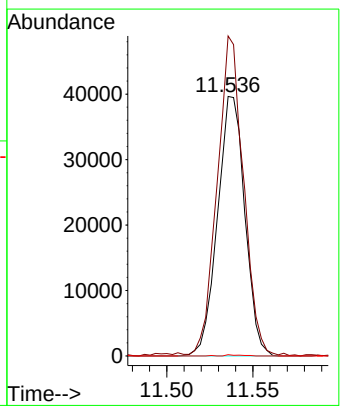


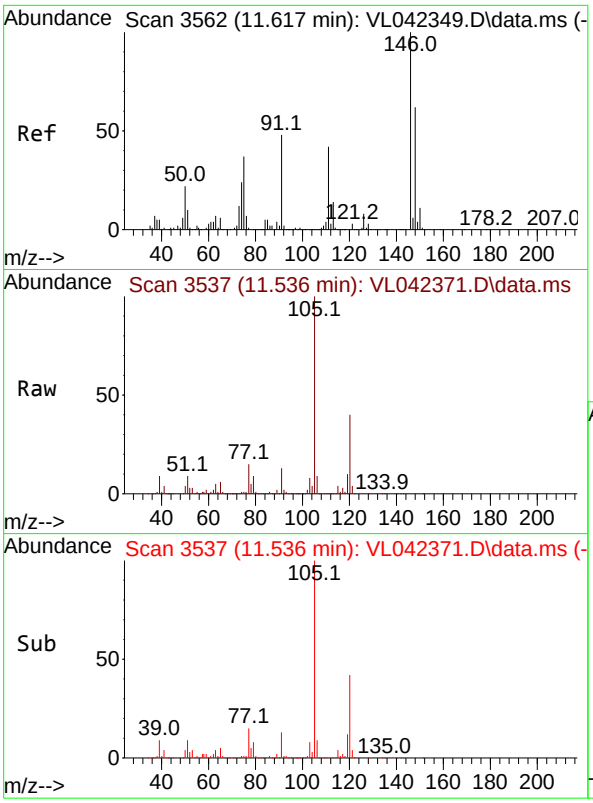


#65
tert-Butylbenzene
Concen: 0.708 ppbv
RT: 11.536 min Scan# 3537
Delta R.T. 0.003 min
Lab File: VL042371.D
Acq: 17 Apr 2025 22:52

Tgt Ion:119 Resp: 43701

Ion	Ratio	Lower	Upper
119	100		
91	119.8	74.6	111.8#
134	0.0	18.8	28.2#



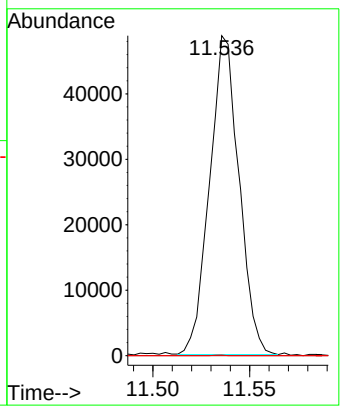


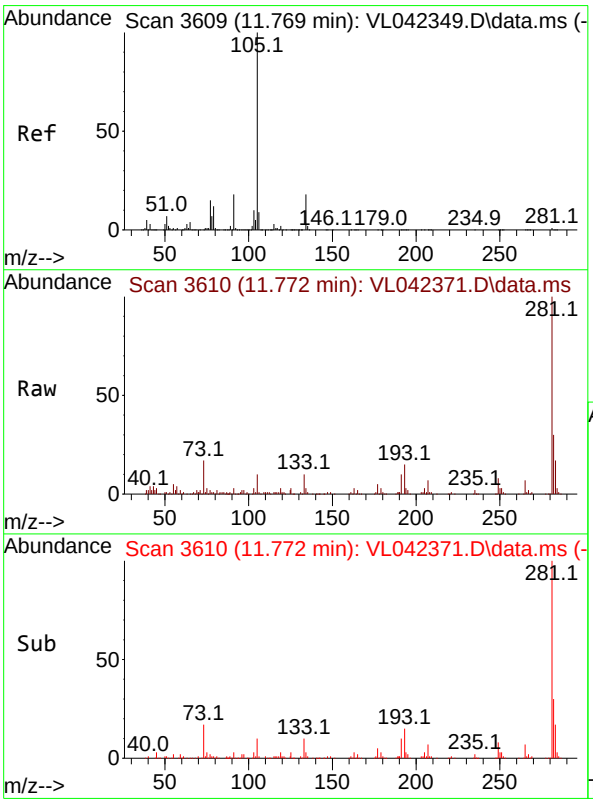
#66
Benzyl Chloride
Concen: 7.582 ppbv
RT: 11.536 min Scan# 3
Delta R.T. -0.081 min
Lab File: VL042371.D
Acq: 17 Apr 2025 22:52

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025

Tgt Ion: 91 Resp: 51402

Ion	Ratio	Lower	Upper
91	100		
126	0.0	11.8	17.6#
128	0.1	4.5	6.7#

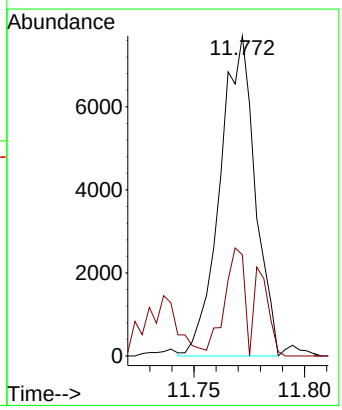


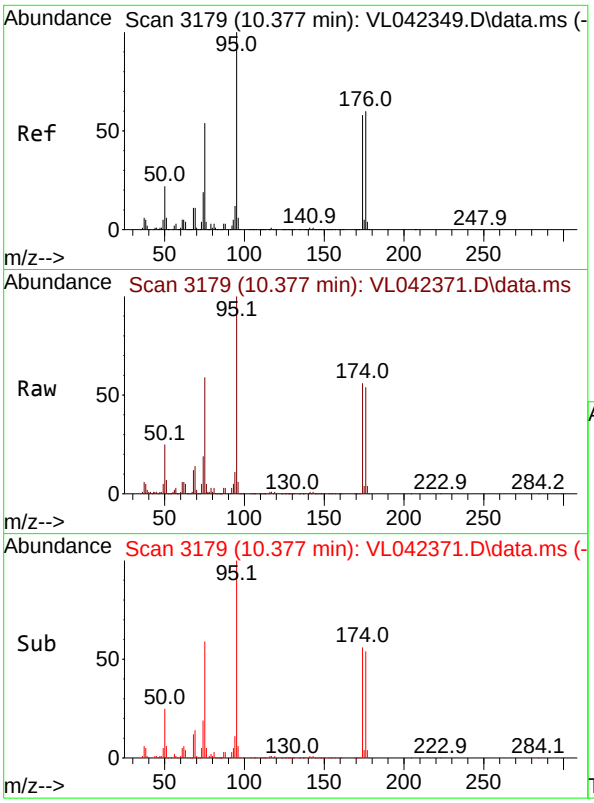


#67
sec-Butylbenzene
Concen: 0.099 ppbv
RT: 11.772 min Scan# 3610
Delta R.T. 0.003 min
Lab File: VL042371.D
Acq: 17 Apr 2025 22:52

Tgt Ion:105 Resp: 8506

Ion	Ratio	Lower	Upper
105	100		
134	30.1	14.6	21.8#



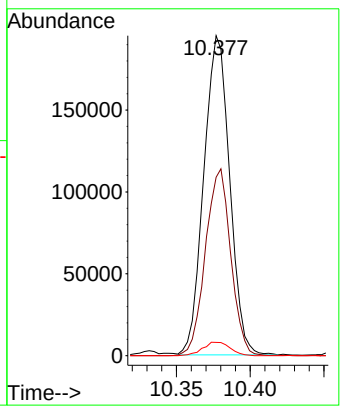


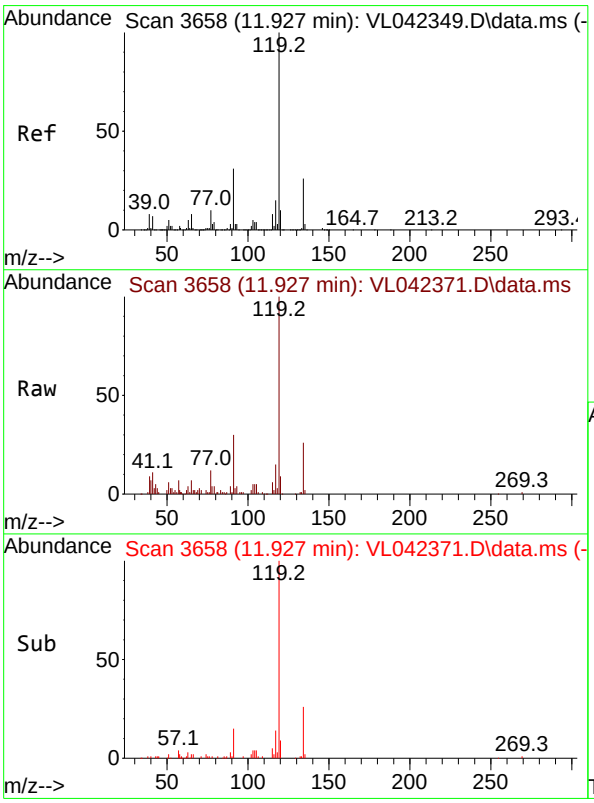
#68
1-Bromo-4-Fluorobenzene
Concen: 10.179 ppbv
RT: 10.377 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042371.D
Acq: 17 Apr 2025 22:52

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025

Tgt Ion: 95 Resp: 237949

Ion	Ratio	Lower	Upper
95	100		
174	57.3	48.5	72.7
175	4.5	3.7	5.5

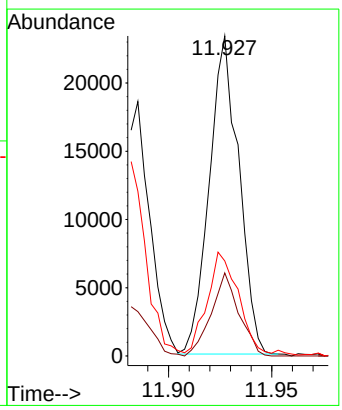


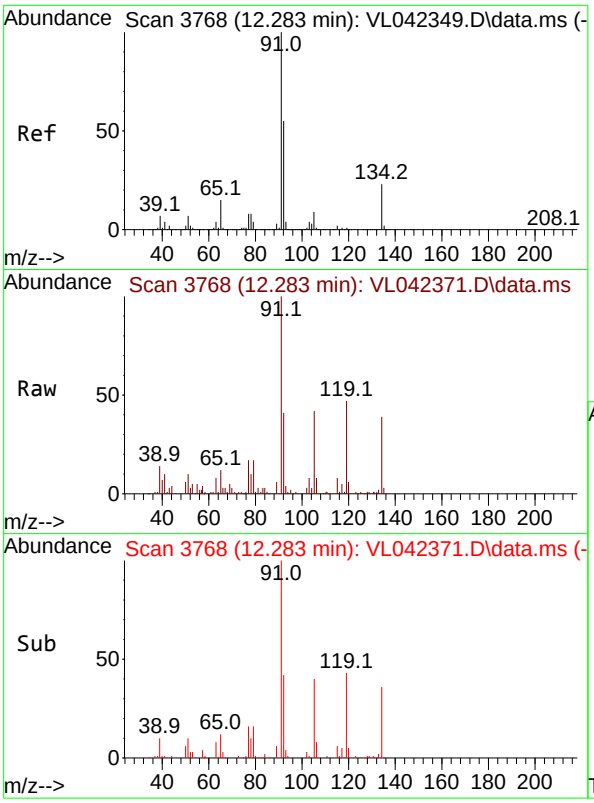


#69
p-Isopropyltoluene
Concen: 0.311 ppbv
RT: 11.927 min Scan# 3658
Delta R.T. 0.000 min
Lab File: VL042371.D
Acq: 17 Apr 2025 22:52

Tgt Ion:119 Resp: 23201

Ion	Ratio	Lower	Upper
119	100		
134	24.5	20.0	30.0
91	36.2	24.4	36.6



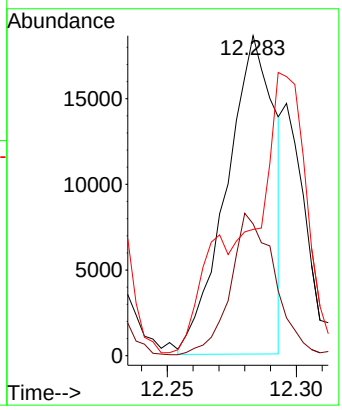


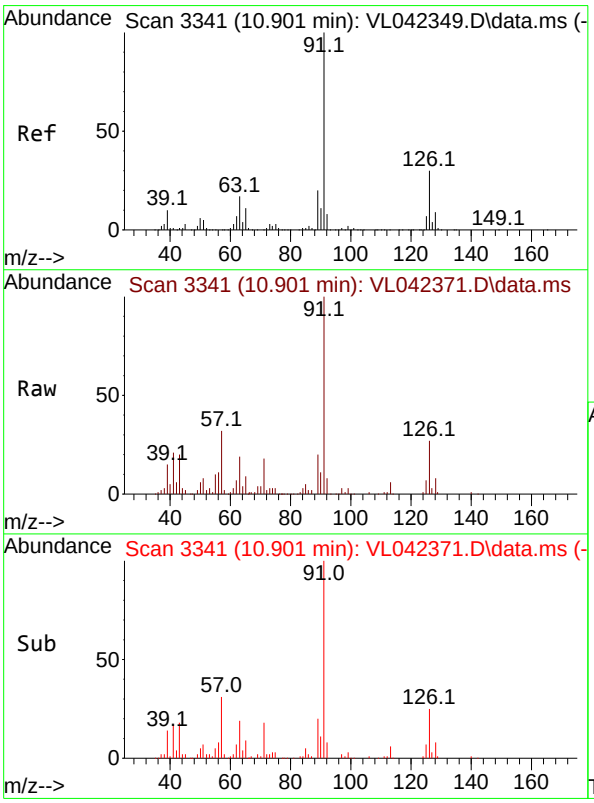
#70
n-Butylbenzene
Concen: 0.309 ppbv
RT: 12.283 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042371.D
Acq: 17 Apr 2025 22:52

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025

Tgt Ion: 91 Resp: 24014

Ion	Ratio	Lower	Upper
91	100		
92	42.9	44.2	66.4#
134	0.0	18.2	27.4#

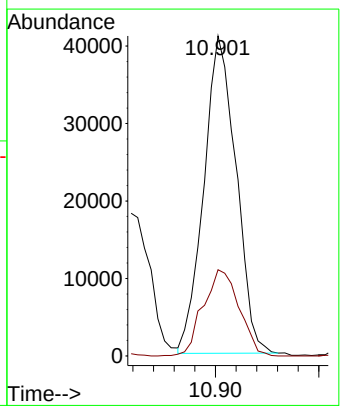


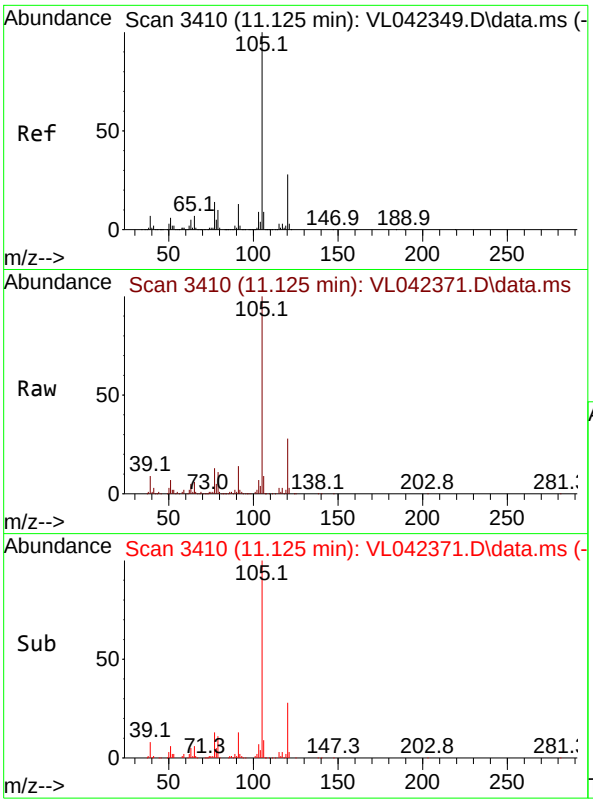


#71
2-Chlorotoluene
Concen: 0.843 ppbv
RT: 10.901 min Scan# 3341
Delta R.T. 0.000 min
Lab File: VL042371.D
Acq: 17 Apr 2025 22:52

Tgt Ion: 91 Resp: 44364

Ion	Ratio	Lower	Upper
91	100		
126	30.4	11.4	45.4



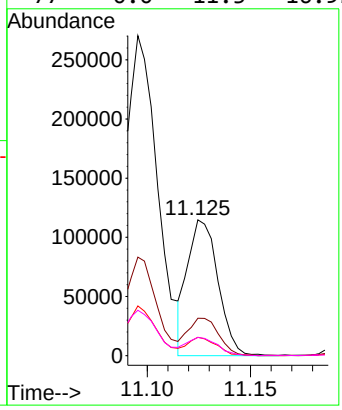


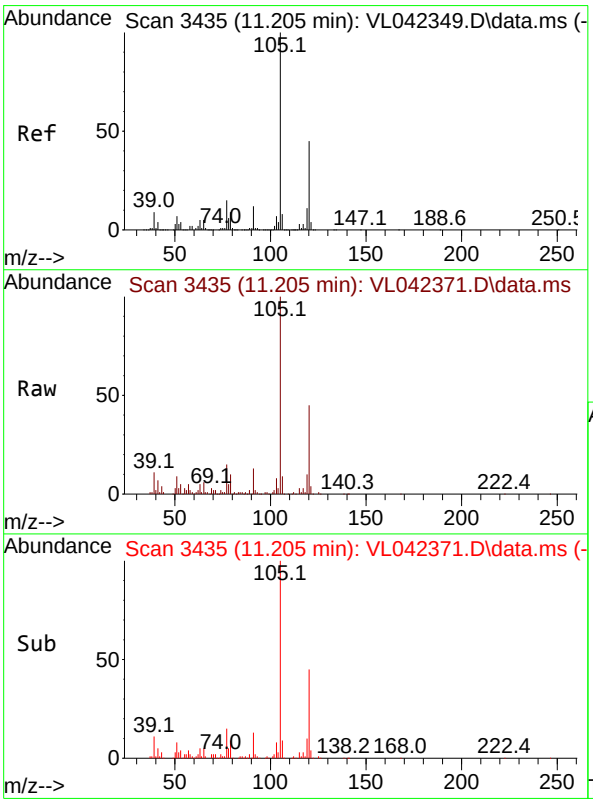
#72
4-Ethyltoluene
Concen: 2.108 ppbv
RT: 11.125 min Scan# 34
Delta R.T. -0.000 min
Lab File: VL042371.D
Acq: 17 Apr 2025 22:52

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025

Tgt Ion:105 Resp: 117824

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#

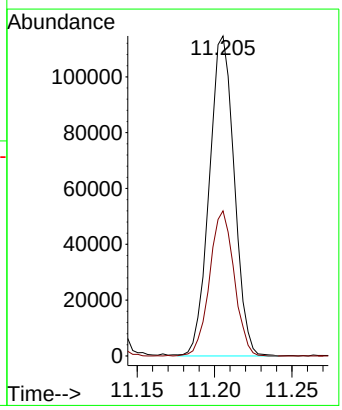


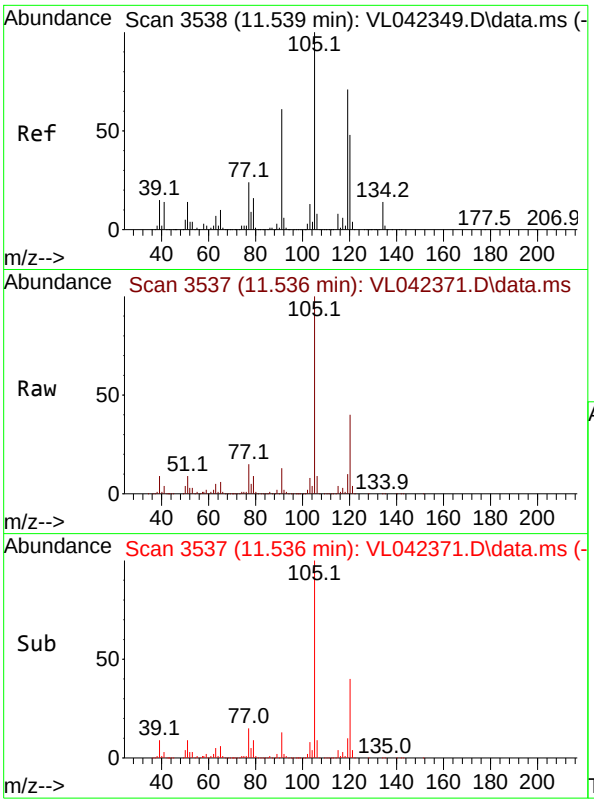


#73
1,3,5-Trimethylbenzene
Concen: 2.599 ppbv
RT: 11.205 min Scan# 3435
Delta R.T. -0.000 min
Lab File: VL042371.D
Acq: 17 Apr 2025 22:52

Tgt Ion:105 Resp: 128254

Ion	Ratio	Lower	Upper
105	100		
120	45.4	35.6	53.4



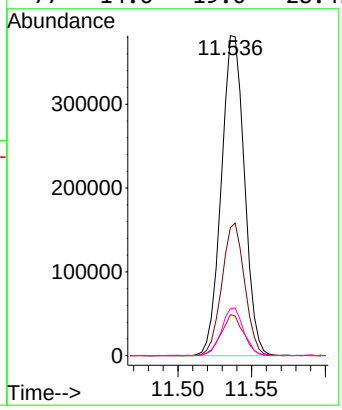


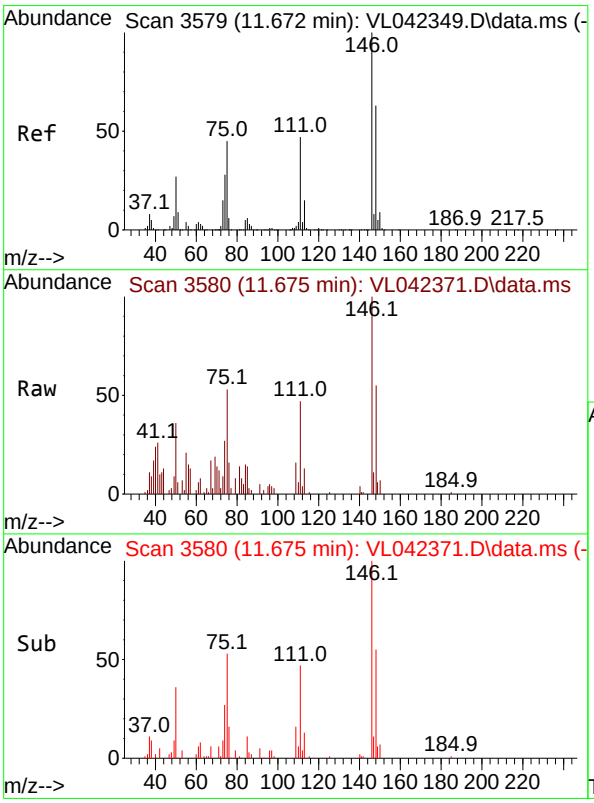
#74
1,2,4-Trimethylbenzene
Concen: 7.213 ppbv
RT: 11.536 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042371.D
Acq: 17 Apr 2025 22:52

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025

Tgt Ion:105 Resp: 415758

Ion	Ratio	Lower	Upper
105	100		
120	40.0	38.1	57.1
91	12.7	48.8	73.2#
77	14.6	19.0	28.4#

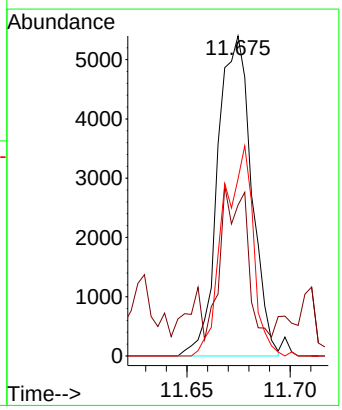


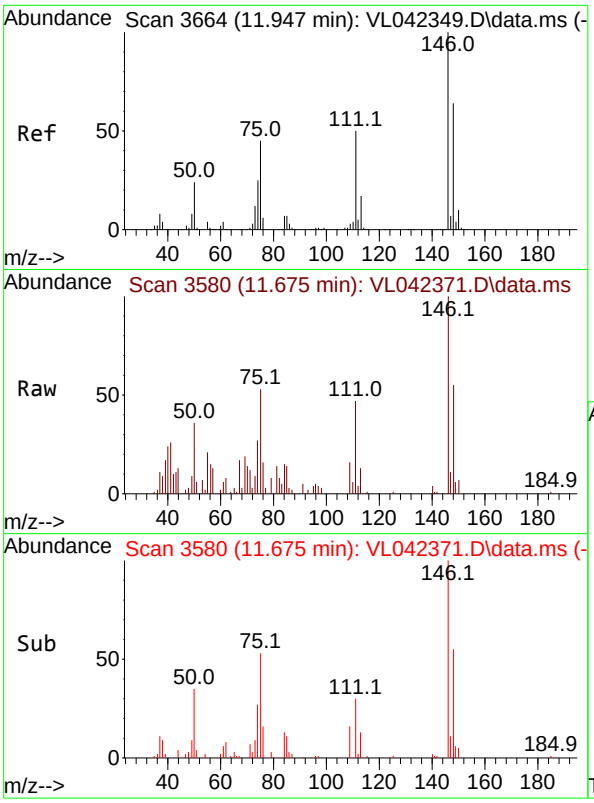


#76
1,4-Dichlorobenzene
Concen: 0.204 ppbv
RT: 11.675 min Scan# 3580
Delta R.T. 0.003 min
Lab File: VL042371.D
Acq: 17 Apr 2025 22:52

Tgt Ion:146 Resp: 6136

Ion	Ratio	Lower	Upper
146	100		
111	71.0	24.2	72.6
148	58.8	32.1	96.5



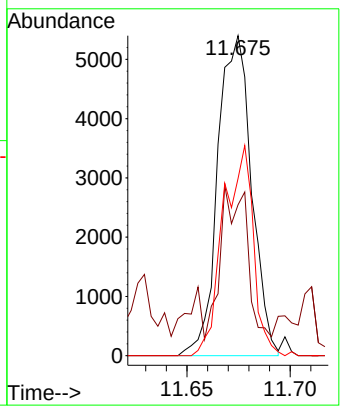


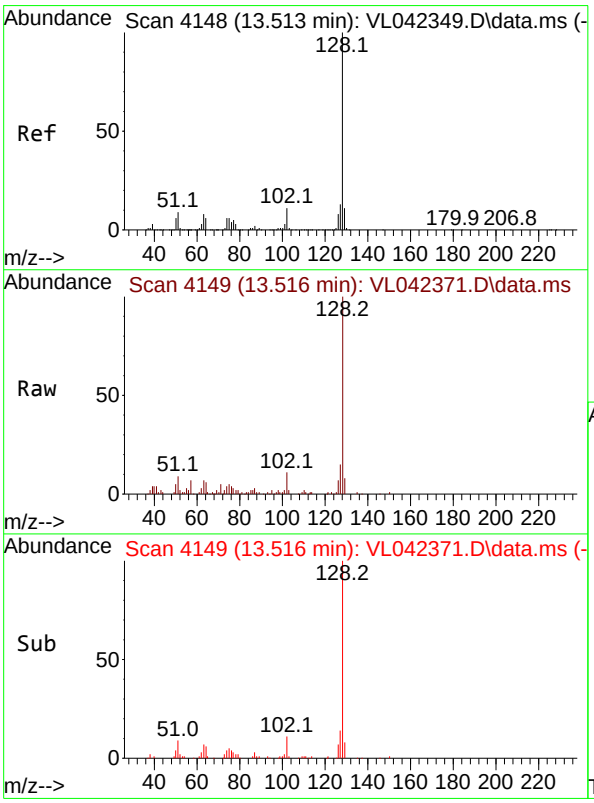
#77
1,2-Dichlorobenzene
Concen: 0.211 ppbv
RT: 11.675 min Scan# 3
Delta R.T. -0.272 min
Lab File: VL042371.D
Acq: 17 Apr 2025 22:52

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025

Tgt Ion:146 Resp: 6136

Ion	Ratio	Lower	Upper
146	100		
111	47.6	25.3	75.9
148	58.8	31.5	94.5

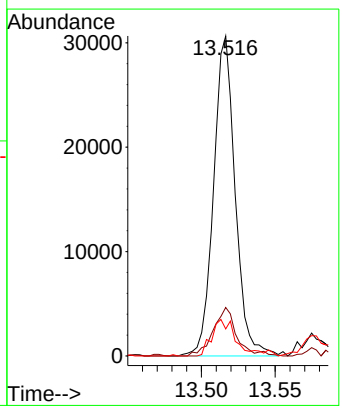


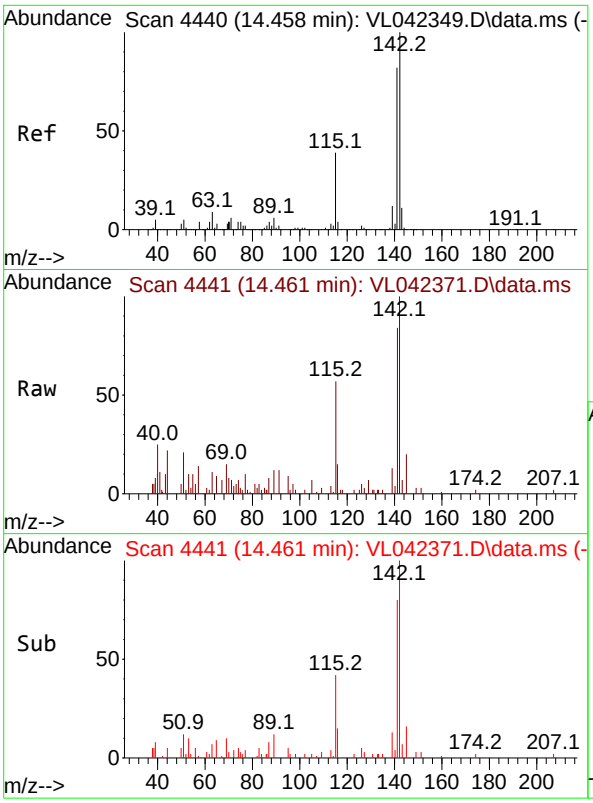


#79
Naphthalene
Concen: 0.454 ppbv
RT: 13.516 min Scan# 4149
Delta R.T. 0.003 min
Lab File: VL042371.D
Acq: 17 Apr 2025 22:52

Tgt Ion:128 Resp: 31283

Ion	Ratio	Lower	Upper
128	100		
127	15.2	10.6	15.8
129	8.5	8.6	12.8#



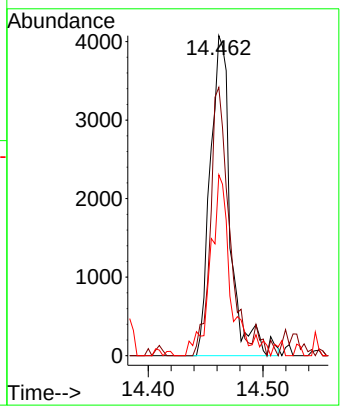


#80
Naphthalene,2-methyl-
Concen: 0.128 ppbv
RT: 14.461 min Scan# 44
Delta R.T. 0.003 min
Lab File: VL042371.D
Acq: 17 Apr 2025 22:52

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025

Tgt Ion:142 Resp: 5013

Ion	Ratio	Lower	Upper
142	100		
141	80.6	66.8	100.2
115	60.7	33.4	50.2#



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042372.D
Acq On : 17 Apr 2025 23:26
Operator : SY/MD
Sample : Q1726-07
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025

Quant Time: Apr 18 02:46:43 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	110448	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.956	114	317011	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.879	117	275197	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.374	95	229240	10.137	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 101.400%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.496	85	9928	0.509	ppbv		92
3) Chlorodifluoromethane	1.467	51	69795	3.756	ppbv	#	62
4) Chloromethane	1.531	50	4664	0.604	ppbv		95
6) Bromomethane	1.667	94	129	0.036	ppbv	#	36
8) Dichlorotetrafluoroethane	1.554	85	514	0.031	ppbv		98
9) Propene	1.557	41	88913	10.507	ppbv		97
10) Heptane	4.978	43	98760	4.154	ppbv		99
11) Trichlorofluoromethane	1.875	101	5086	0.274	ppbv		100
12) 1,1,2-Trichlorotrifluo...	2.140	101	1322	0.087	ppbv		90
13) Ethanol	1.719	45	434403	322.963	ppbv		75
15) Acetone	1.832	43	3068967	169.738	ppbv	#	45
16) 1,3-Butadiene	1.619	39	31651	3.660	ppbv	#	14
17) tert-Butyl alcohol	2.273	59	44264	1.975	ppbv		98
19) Isopropyl Alcohol	1.884	45	344907	34.339	ppbv	#	33
20) Methylene Chloride	2.062	84	19413	2.742	ppbv		97
21) Allyl Chloride	2.043	41	3713	0.297	ppbv	#	23
23) Vinyl Acetate	2.473	43	64430	8.804	ppbv	#	50
25) Ethyl Acetate	2.826	43	57942	1.300	ppbv	#	79
26) Hexane	2.823	57	68262	3.784	ppbv	#	38
27) Carbon Disulfide	2.146	76	1314	0.068	ppbv	#	56
30) Cyclohexane	3.855	84	18963	1.300	ppbv		93
34) 2-Butanone	2.557	43	29844	1.190	ppbv		96
35) Carbon Tetrachloride	3.758	117	1196	0.042	ppbv	#	65
36) Benzene	3.651	78	38575	1.128	ppbv		95
37) 1,2-Dichloroethane	3.218	62	4357	0.212	ppbv	#	93
39) 1,2-Dichloropropane	3.959	63	83896	6.584	ppbv	#	25
41) Tetrahydrofuran	3.062	42	3068	0.210	ppbv	#	35
44) 2,2,4-Trimethylpentane	4.639	57	623779	10.563	ppbv		95
50) 4-Methyl-2-Pentanone	5.752	43	3194	0.077	ppbv	#	39
51) 2-Hexanone	7.422	43	10664	0.285	ppbv	#	55
52) Tetrachloroethene	8.222	164	1420	0.107	ppbv	#	85
53) Toluene	6.933	91	1085281	26.450	ppbv		99
58) Ethyl Benzene	9.351	91	277437	5.088	ppbv		100
59) m/p-Xylene	9.529	91	770401	17.539	ppbv		99
60) o-Xylene	9.963	91	305451	6.906	ppbv		98
61) Styrene	9.872	104	7737	0.366	ppbv		91
62) Isopropylbenzene	10.536	105	32373	0.499	ppbv		99
64) n-propylbenzene	10.986	120	27039	1.657	ppbv		87
65) tert-Butylbenzene	11.536	119	53708	0.900	ppbv	#	73
66) Benzyl Chloride	11.737	91	7178	1.094	ppbv	#	73
67) sec-Butylbenzene	11.766	105	10233	0.123	ppbv	#	60
69) p-Isopropyltoluene	11.924	119	39473	0.547	ppbv		95
70) n-Butylbenzene	12.280	91	21674	0.289	ppbv	#	85

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042372.D
Acq On : 17 Apr 2025 23:26
Operator : SY/MD
Sample : Q1726-07
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025

Quant Time: Apr 18 02:46:43 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

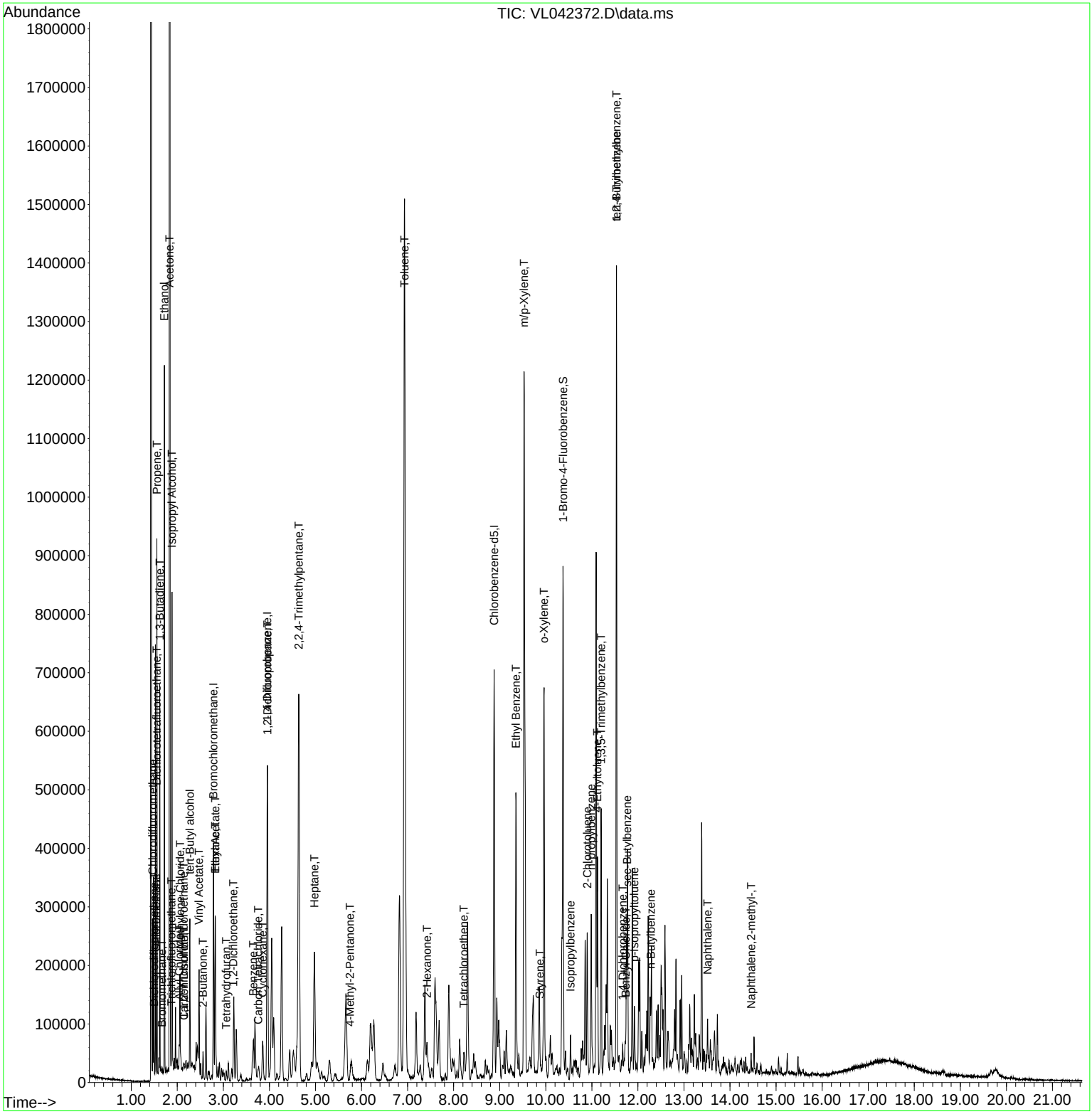
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
71) 2-Chlorotoluene	10.902	91	70326	1.381	ppbv		100
72) 4-Ethyltoluene	11.122	105	146733	2.714	ppbv	#	56
73) 1,3,5-Trimethylbenzene	11.203	105	156177	3.271	ppbv		98
74) 1,2,4-Trimethylbenzene	11.536	105	502862	9.018	ppbv	#	64
76) 1,4-Dichlorobenzene	11.669	146	10548	0.362	ppbv	#	80
79) Naphthalene	13.513	128	38387	0.576	ppbv		96
80) Naphthalene,2-methyl-	14.459	142	7927	0.209	ppbv	#	89

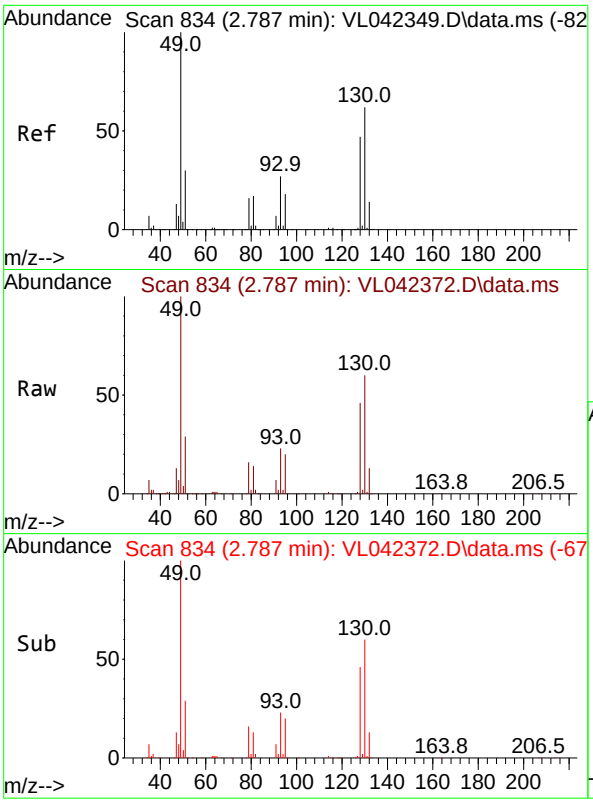
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042372.D
Acq On : 17 Apr 2025 23:26
Operator : SY/MD
Sample : Q1726-07
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025

Quant Time: Apr 18 02:46:43 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



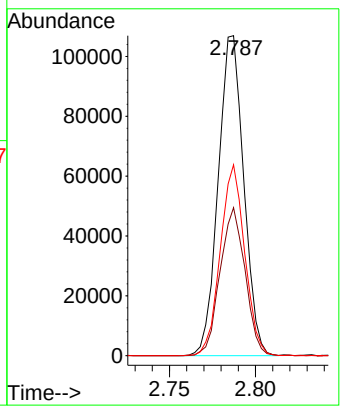


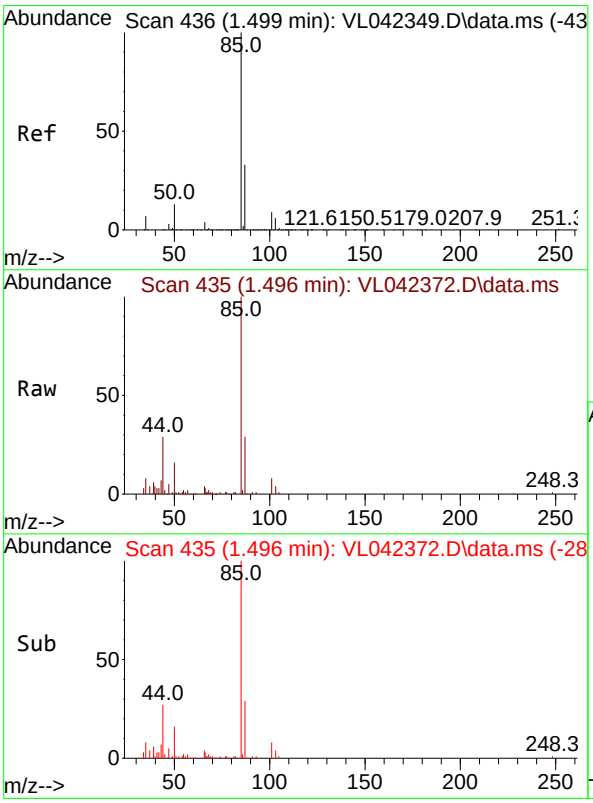
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 8
Delta R.T. 0.000 min
Lab File: VL042372.D
Acq: 17 Apr 2025 23:26

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025

Tgt Ion: 49 Resp: 110448

Ion	Ratio	Lower	Upper
49	100		
128	45.3	22.8	68.4
130	57.0	29.3	88.0

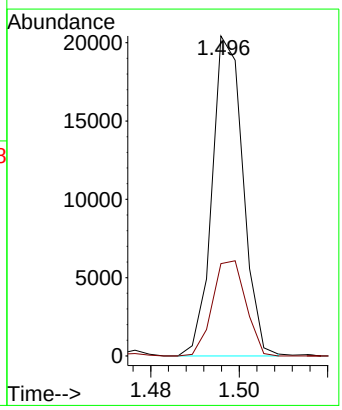


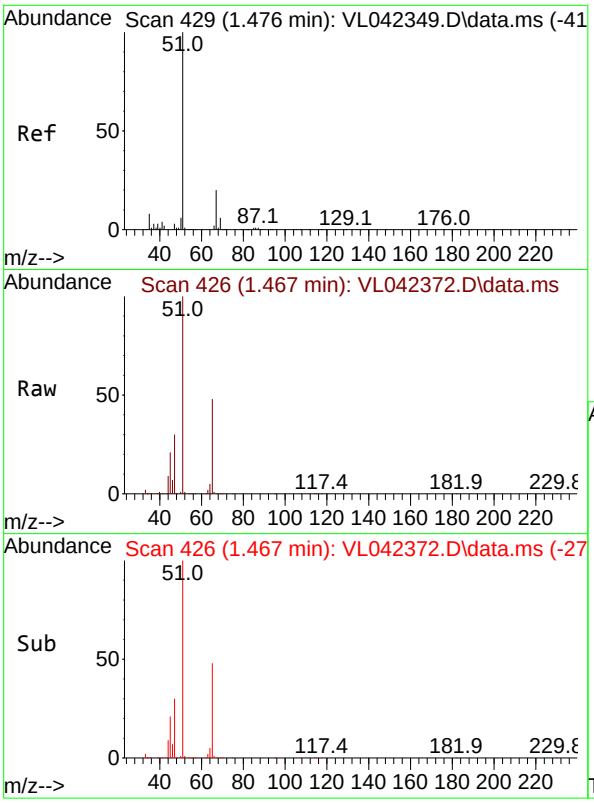


#2
Dichlorodifluoromethane
Concen: 0.509 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.003 min
Lab File: VL042372.D
Acq: 17 Apr 2025 23:26

Tgt Ion: 85 Resp: 9928

Ion	Ratio	Lower	Upper
85	100		
87	28.9	26.6	39.8



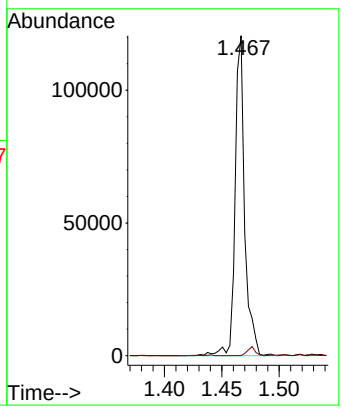


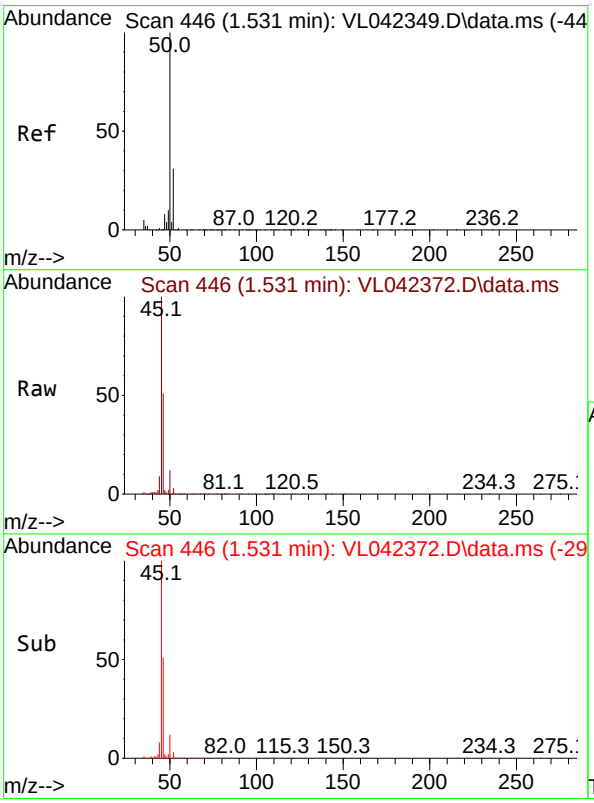
#3
Chlorodifluoromethane
Concen: 3.756 ppbv
RT: 1.467 min Scan# 4
Delta R.T. -0.009 min
Lab File: VL042372.D
Acq: 17 Apr 2025 23:26

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025

Tgt Ion: 51 Resp: 69795

Ion	Ratio	Lower	Upper
51	100		
67	2.6	16.2	24.4#

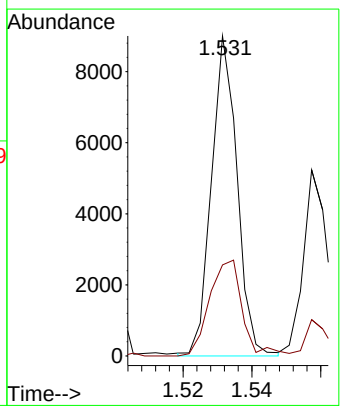


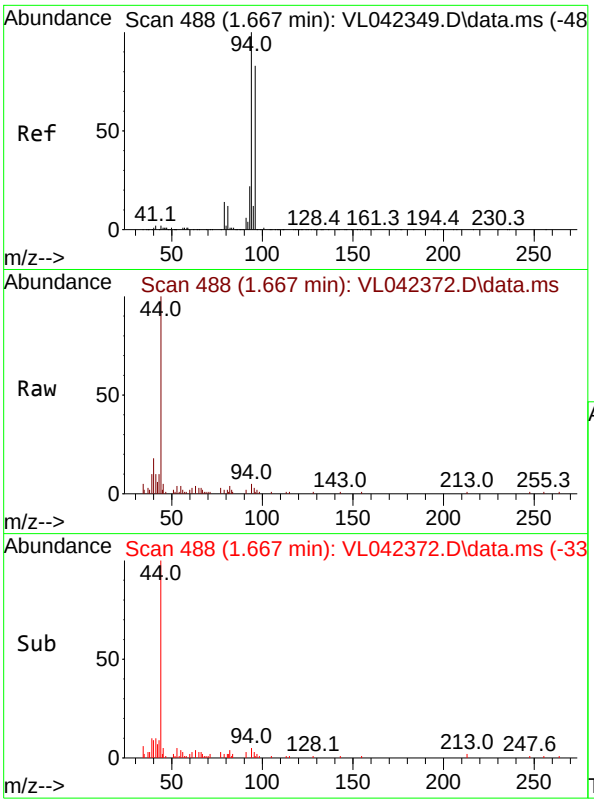


#4
Chloromethane
Concen: 0.604 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL042372.D
Acq: 17 Apr 2025 23:26

Tgt Ion: 50 Resp: 4664

Ion	Ratio	Lower	Upper
50	100		
52	27.9	24.7	37.1



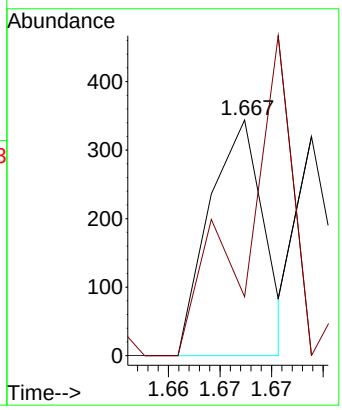


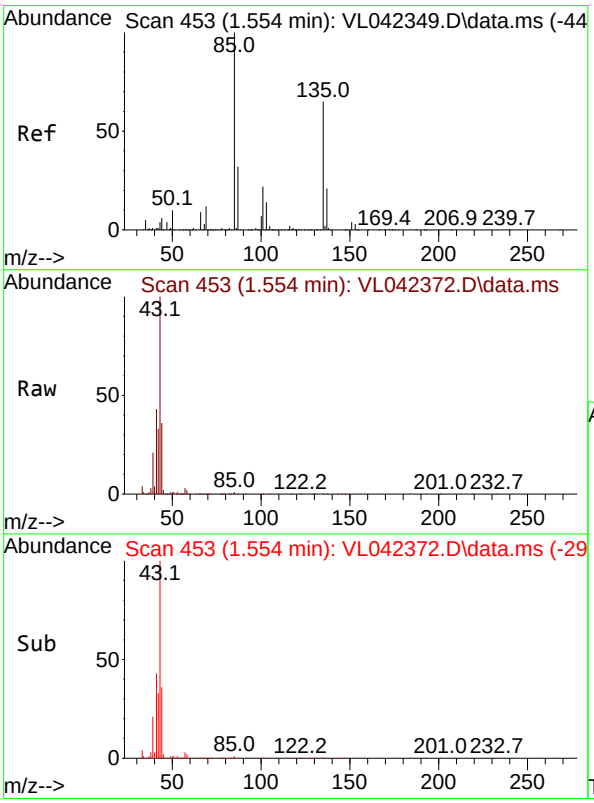
#6
Bromomethane
Concen: 0.036 ppbv
RT: 1.667 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042372.D
Acq: 17 Apr 2025 23:26

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025

Tgt Ion: 94 Resp: 129

Ion	Ratio	Lower	Upper
94	100		
96	25.0	66.2	99.2#

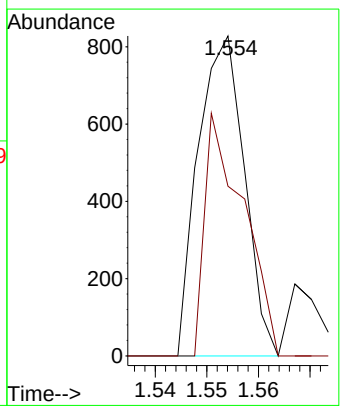


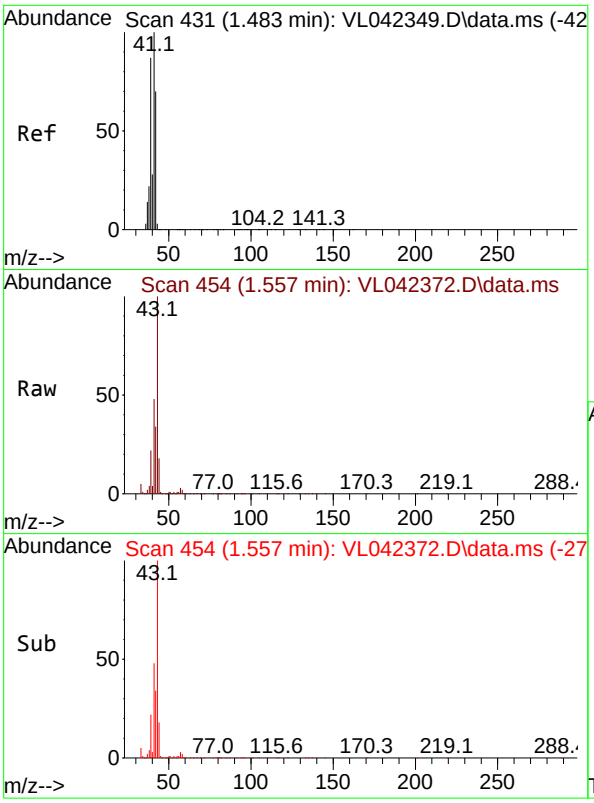


#8
Dichlorotetrafluoroethane
Concen: 0.031 ppbv
RT: 1.554 min Scan# 453
Delta R.T. 0.000 min
Lab File: VL042372.D
Acq: 17 Apr 2025 23:26

Tgt Ion: 85 Resp: 514

Ion	Ratio	Lower	Upper
85	100		
135	64.0	52.2	78.2



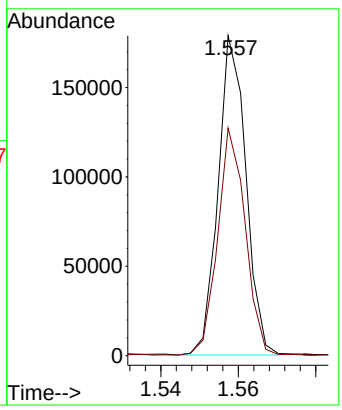


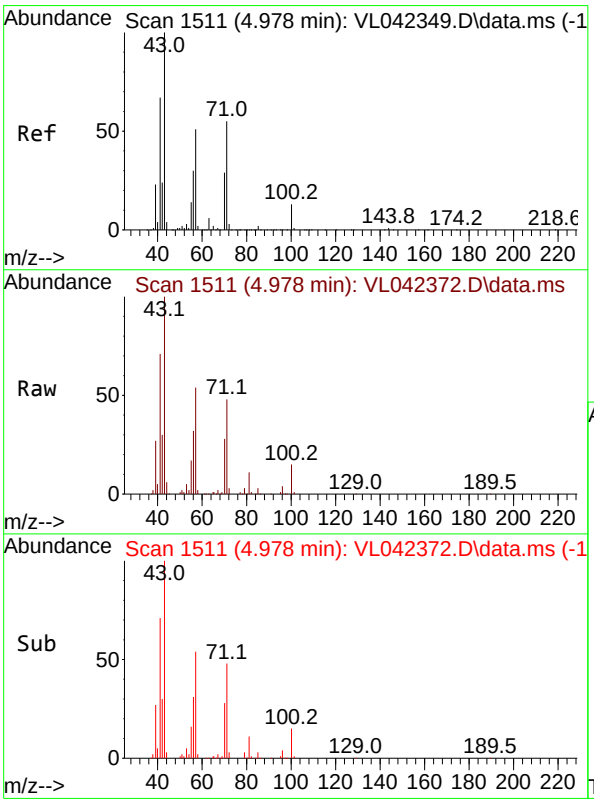
#9
Propene
Concen: 10.507 ppbv
RT: 1.557 min Scan# 4
Delta R.T. 0.075 min
Lab File: VL042372.D
Acq: 17 Apr 2025 23:26

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025

Tgt Ion: 41 Resp: 88913

Ion	Ratio	Lower	Upper
41	100		
42	73.0	56.2	84.4

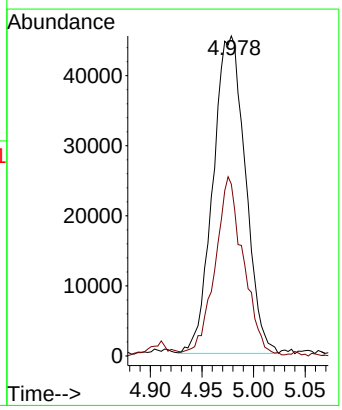


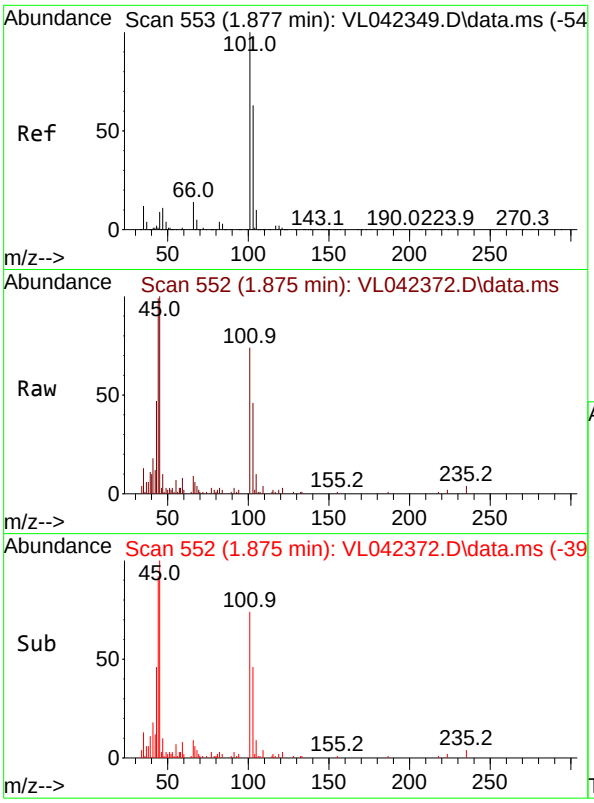


#10
Heptane
Concen: 4.154 ppbv
RT: 4.978 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VL042372.D
Acq: 17 Apr 2025 23:26

Tgt Ion: 43 Resp: 98760

Ion	Ratio	Lower	Upper
43	100		
57	50.3	39.9	59.9



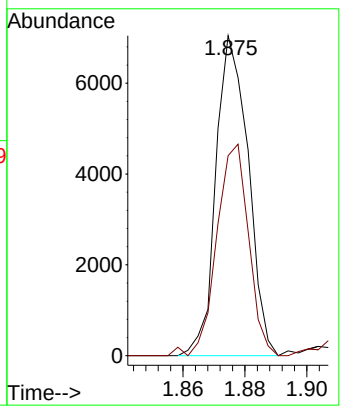


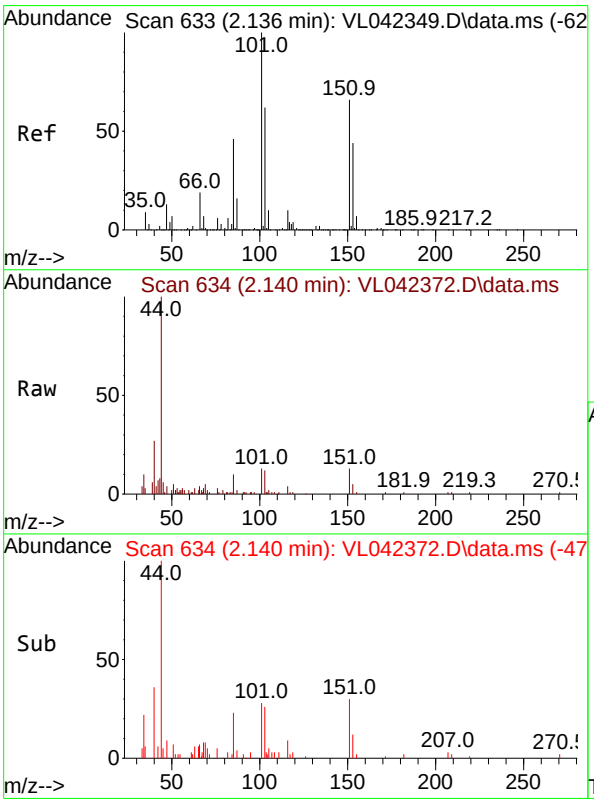
#11
Trichlorofluoromethane
Concen: 0.274 ppbv
RT: 1.875 min Scan# 5
Delta R.T. -0.003 min
Lab File: VL042372.D
Acq: 17 Apr 2025 23:26

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025

Tgt Ion:101 Resp: 5086

Ion	Ratio	Lower	Upper
101	100		
103	62.5	50.1	75.1

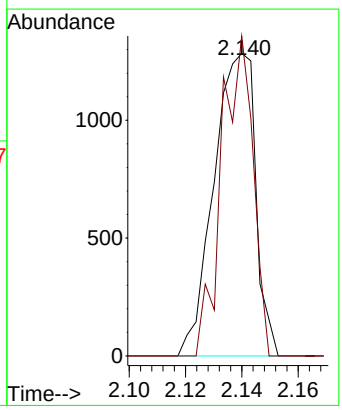


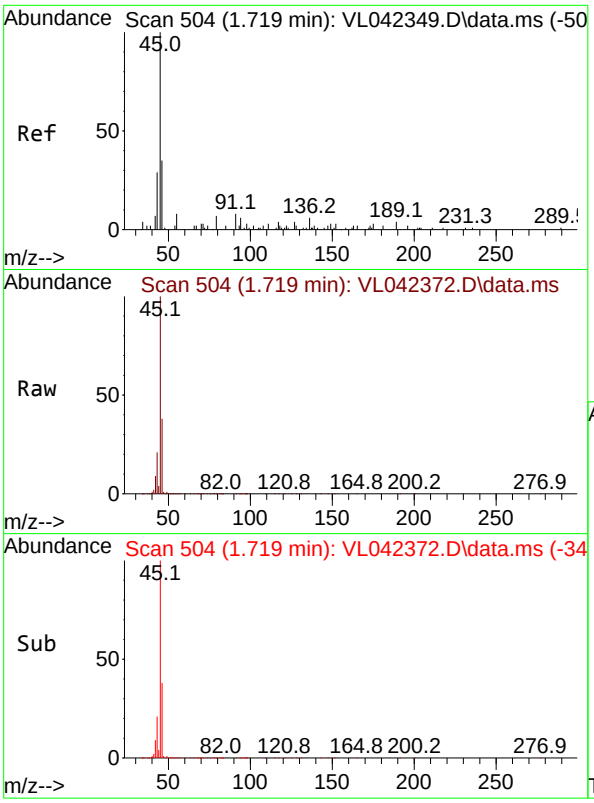


#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.087 ppbv
RT: 2.140 min Scan# 634
Delta R.T. 0.004 min
Lab File: VL042372.D
Acq: 17 Apr 2025 23:26

Tgt Ion:101 Resp: 1322

Ion	Ratio	Lower	Upper
101	100		
151	79.7	57.0	85.6



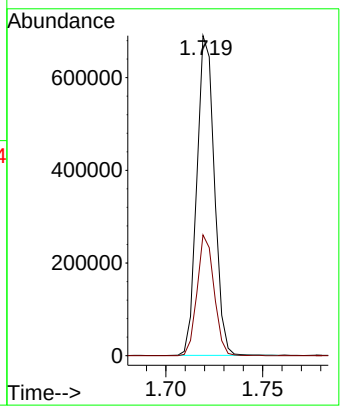


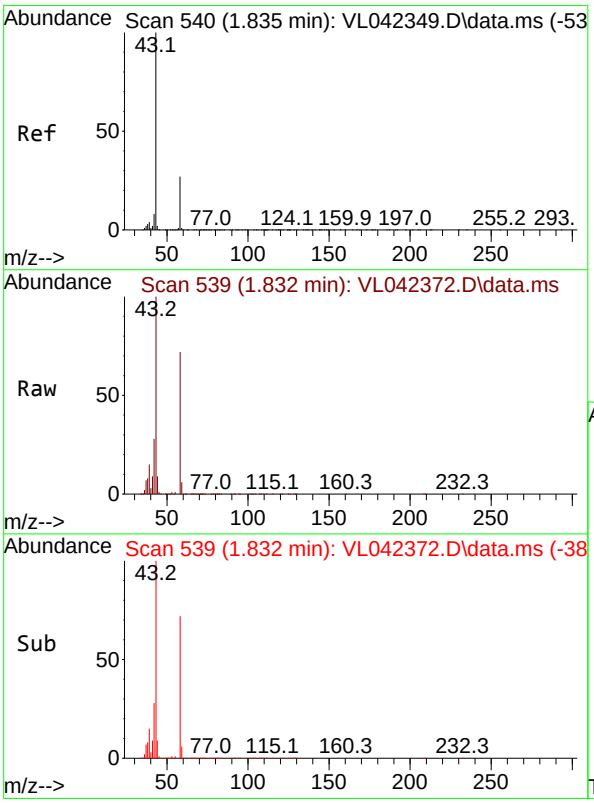
#13
Ethanol
Concen: 322.963 ppbv
RT: 1.719 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL042372.D
Acq: 17 Apr 2025 23:26

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025

Tgt Ion: 45 Resp: 434403

Ion	Ratio	Lower	Upper
45	100		
46	36.8	21.9	87.7

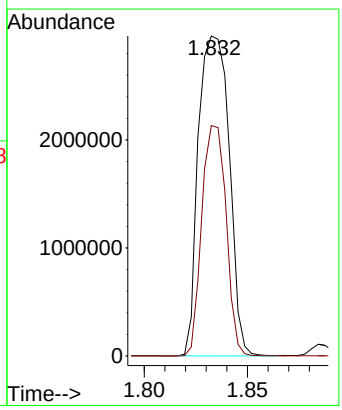


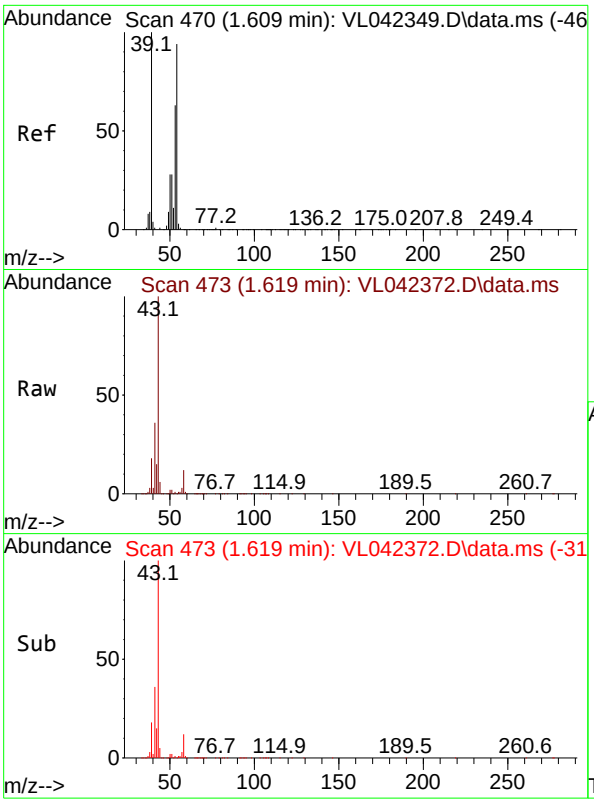


#15
Acetone
Concen: 169.738 ppbv
RT: 1.832 min Scan# 539
Delta R.T. -0.003 min
Lab File: VL042372.D
Acq: 17 Apr 2025 23:26

Tgt Ion: 43 Resp: 3068967

Ion	Ratio	Lower	Upper
43	100		
58	56.8	22.4	33.6#



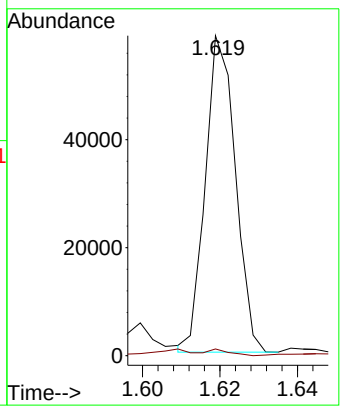


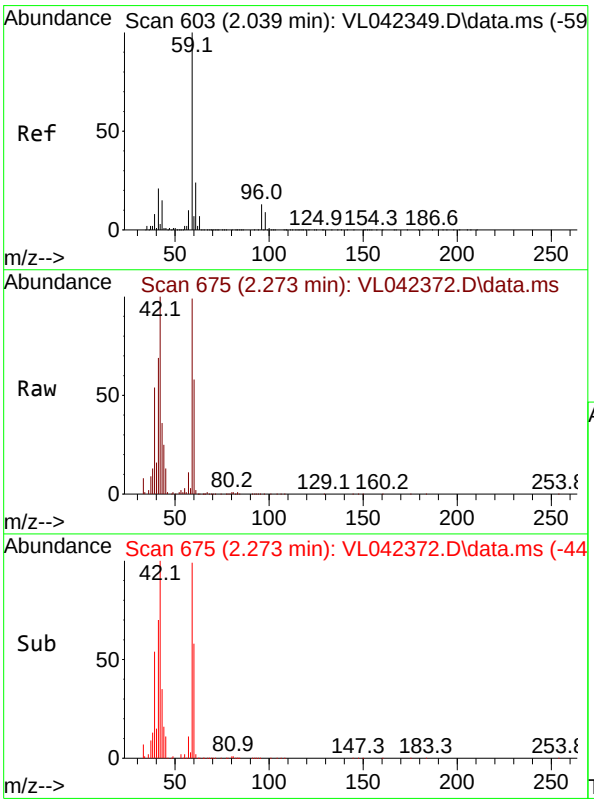
#16
1,3-Butadiene
Concen: 3.660 ppbv
RT: 1.619 min Scan# 4
Delta R.T. 0.010 min
Lab File: VL042372.D
Acq: 17 Apr 2025 23:26

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025

Tgt Ion: 39 Resp: 31651

Ion	Ratio	Lower	Upper
39	100		
54	4.5	64.9	97.3#

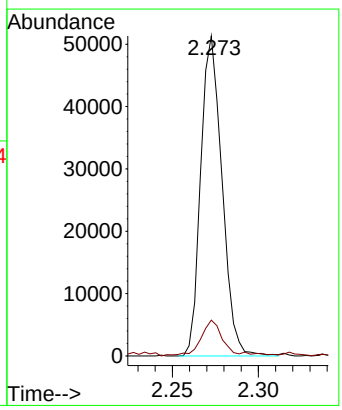


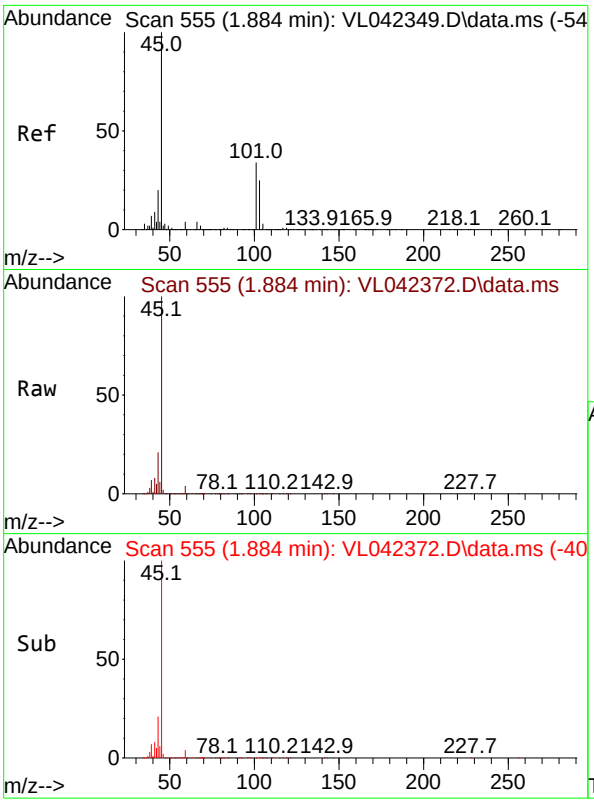


#17
tert-Butyl alcohol
Concen: 1.975 ppbv
RT: 2.273 min Scan# 675
Delta R.T. 0.233 min
Lab File: VL042372.D
Acq: 17 Apr 2025 23:26

Tgt Ion: 59 Resp: 44264

Ion	Ratio	Lower	Upper
59	100		
57	10.2	8.7	13.1



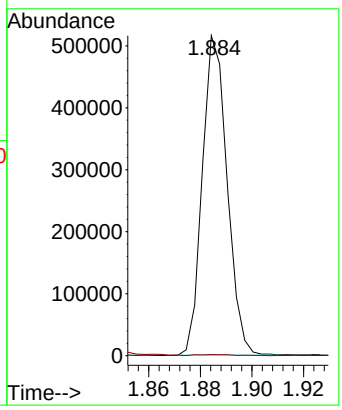


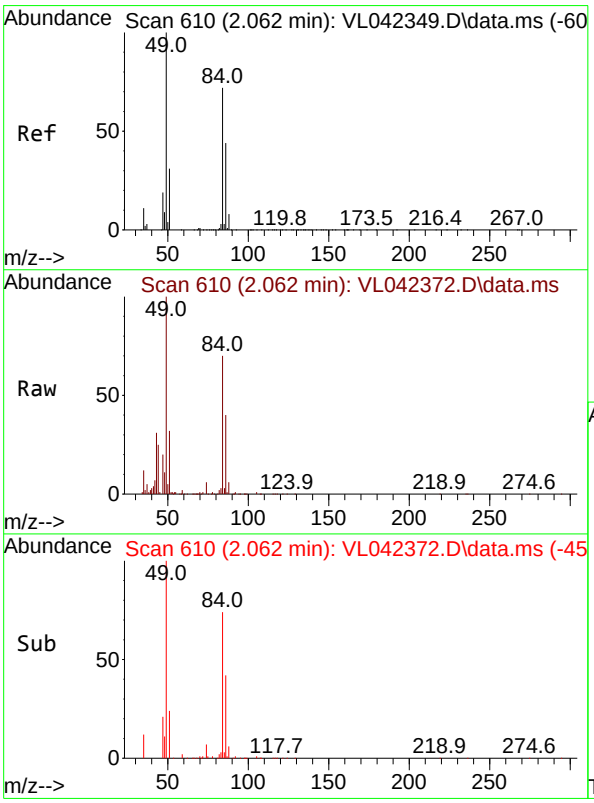
#19
Isopropyl Alcohol
Concen: 34.339 ppbv
RT: 1.884 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL042372.D
Acq: 17 Apr 2025 23:26

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025

Tgt Ion: 45 Resp: 344907

Ion	Ratio	Lower	Upper
45	100		
58	0.0	34.5	51.7#

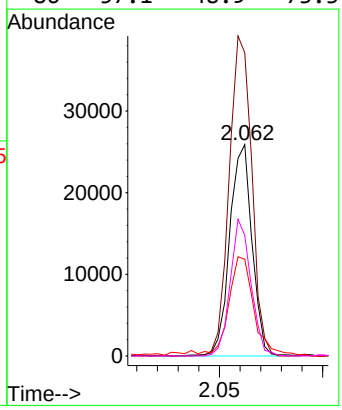


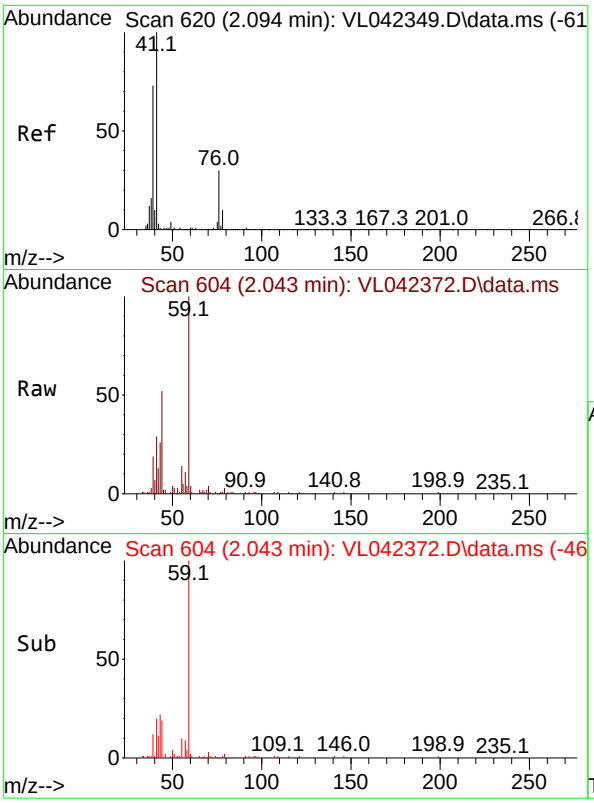


#20
Methylene Chloride
Concen: 2.742 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.000 min
Lab File: VL042372.D
Acq: 17 Apr 2025 23:26

Tgt Ion: 84 Resp: 19413

Ion	Ratio	Lower	Upper
84	100		
49	143.4	111.6	167.4
51	44.2	35.1	52.7
86	57.1	48.9	73.3



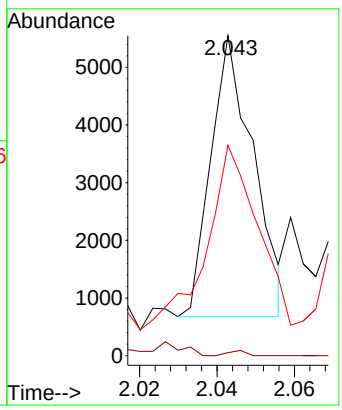


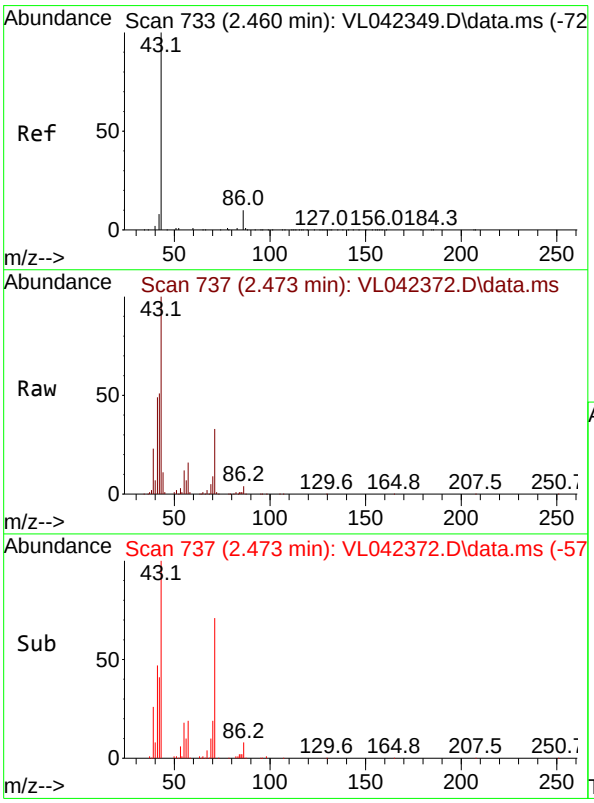
#21
Allyl Chloride
Concen: 0.297 ppbv
RT: 2.043 min Scan# 6
Delta R.T. -0.051 min
Lab File: VL042372.D
Acq: 17 Apr 2025 23:26

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025

Tgt Ion: 41 Resp: 3713

Ion	Ratio	Lower	Upper
41	100		
76	4.7	24.8	37.2#
39	0.0	60.6	90.8#

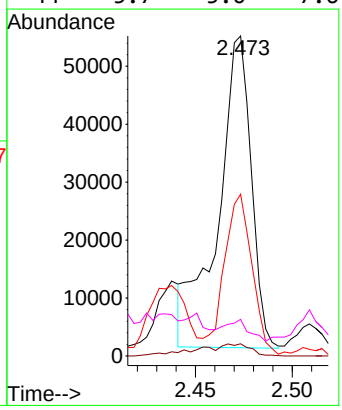


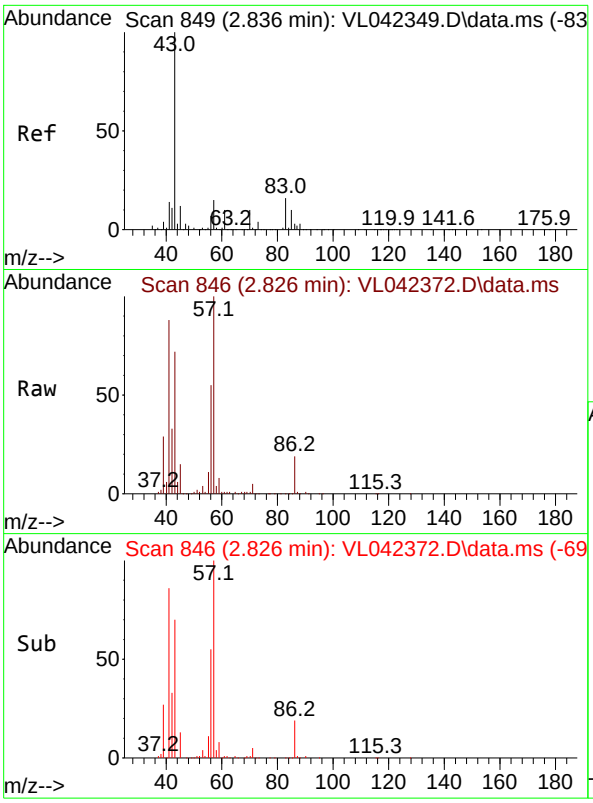


#23
Vinyl Acetate
Concen: 8.804 ppbv
RT: 2.473 min Scan# 737
Delta R.T. 0.013 min
Lab File: VL042372.D
Acq: 17 Apr 2025 23:26

Tgt Ion: 43 Resp: 64430

Ion	Ratio	Lower	Upper
43	100		
86	3.8	6.5	9.7#
42	51.6	7.8	11.8#
44	5.7	5.0	7.6



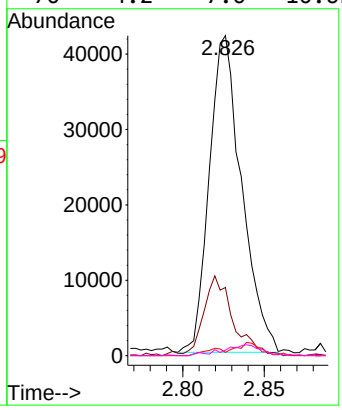


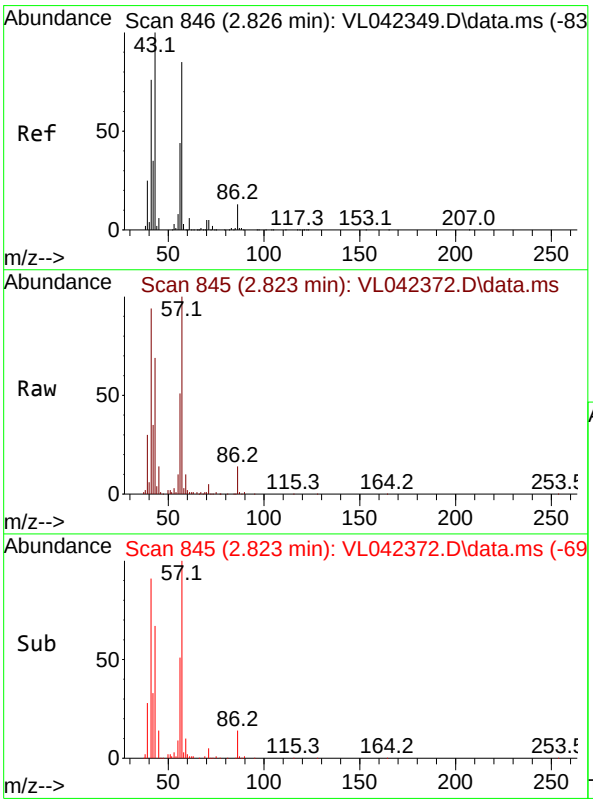
#25
Ethyl Acetate
Concen: 1.300 ppbv
RT: 2.826 min Scan# 84
Delta R.T. -0.009 min
Lab File: VL042372.D
Acq: 17 Apr 2025 23:26

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025

Tgt Ion: 43 Resp: 57942

Ion	Ratio	Lower	Upper
43	100		
45	23.6	8.3	12.5#
61	4.5	7.3	10.9#
70	4.2	7.0	10.6#

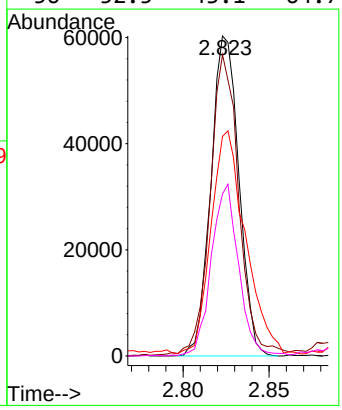


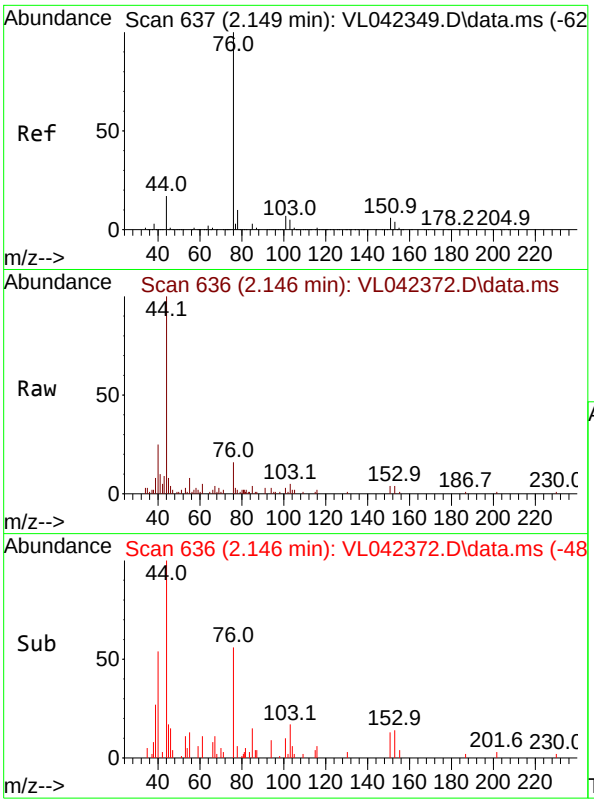


#26
Hexane
Concen: 3.784 ppbv
RT: 2.823 min Scan# 845
Delta R.T. -0.003 min
Lab File: VL042372.D
Acq: 17 Apr 2025 23:26

Tgt Ion: 57 Resp: 68262

Ion	Ratio	Lower	Upper
57	100		
41	96.5	77.9	116.9
43	86.0	208.4	312.6#
56	52.5	43.1	64.7



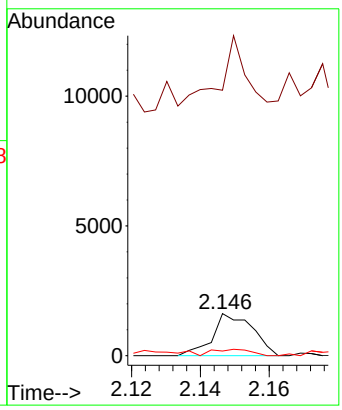


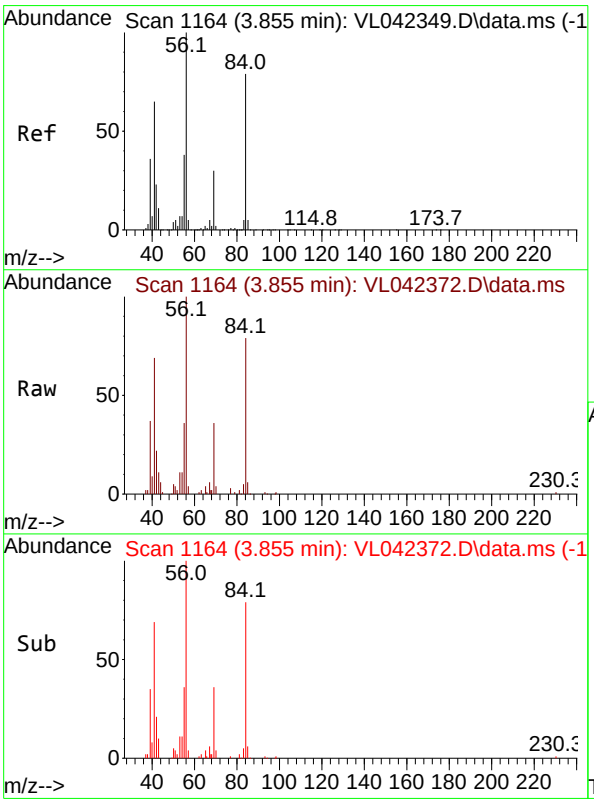
#27
Carbon Disulfide
Concen: 0.068 ppbv
RT: 2.146 min Scan# 6
Delta R.T. -0.003 min
Lab File: VL042372.D
Acq: 17 Apr 2025 23:26

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025

Tgt Ion: 76 Resp: 1314

Ion	Ratio	Lower	Upper
76	100		
44	0.0	15.5	23.3#
78	29.8	9.3	13.9#

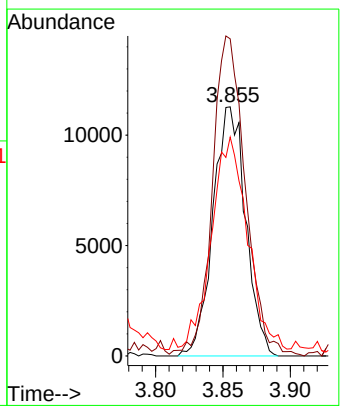


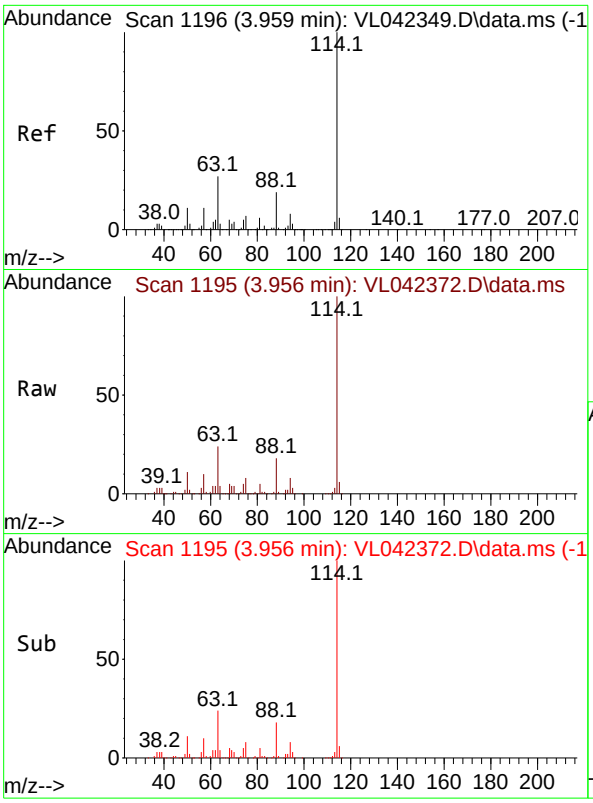


#30
Cyclohexane
Concen: 1.300 ppbv
RT: 3.855 min Scan# 1164
Delta R.T. 0.000 min
Lab File: VL042372.D
Acq: 17 Apr 2025 23:26

Tgt Ion: 84 Resp: 18963

Ion	Ratio	Lower	Upper
84	100		
56	131.9	101.0	151.4
41	93.9	67.4	101.0



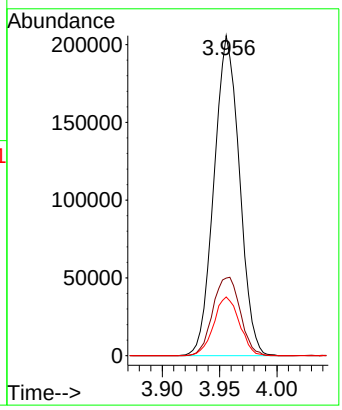


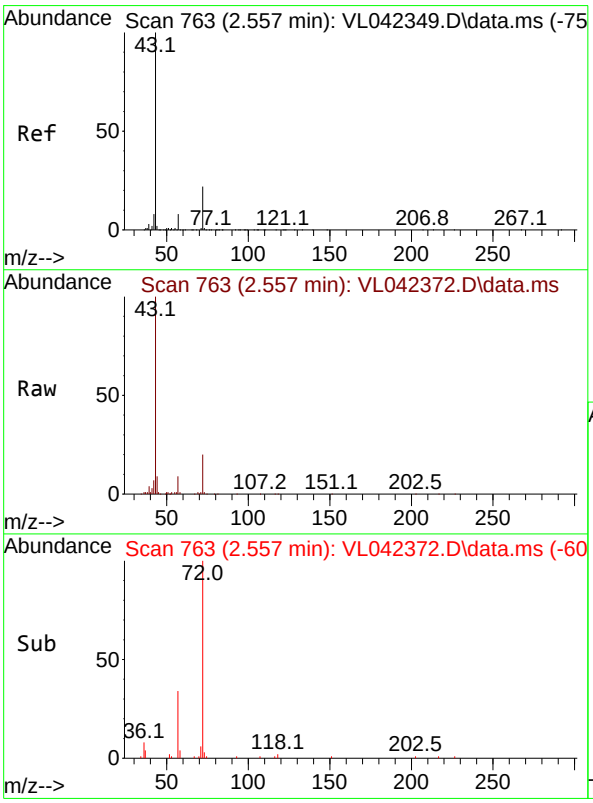
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.956 min Scan# 11
Delta R.T. -0.003 min
Lab File: VL042372.D
Acq: 17 Apr 2025 23:26

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025

Tgt Ion:114 Resp: 317011

Ion	Ratio	Lower	Upper
114	100		
63	26.5	21.8	32.6
88	18.5	15.5	23.3

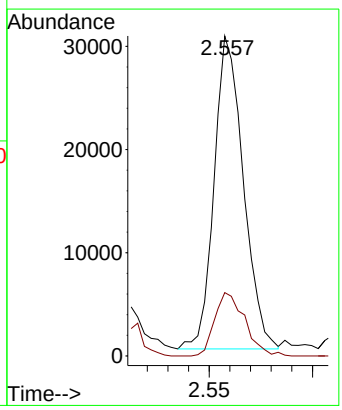


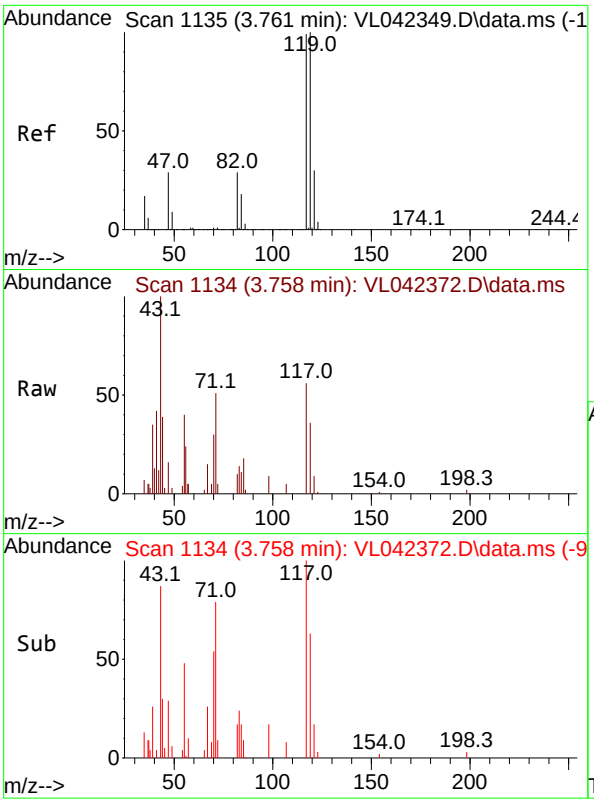


#34
2-Butanone
Concen: 1.190 ppbv
RT: 2.557 min Scan# 763
Delta R.T. 0.000 min
Lab File: VL042372.D
Acq: 17 Apr 2025 23:26

Tgt Ion: 43 Resp: 29844

Ion	Ratio	Lower	Upper
43	100		
72	20.9	18.2	27.2



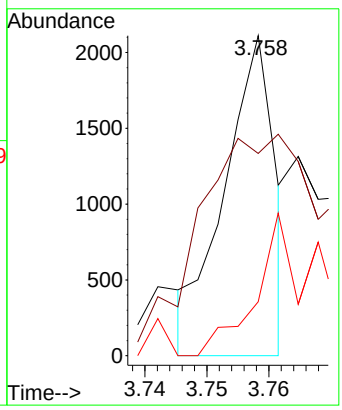


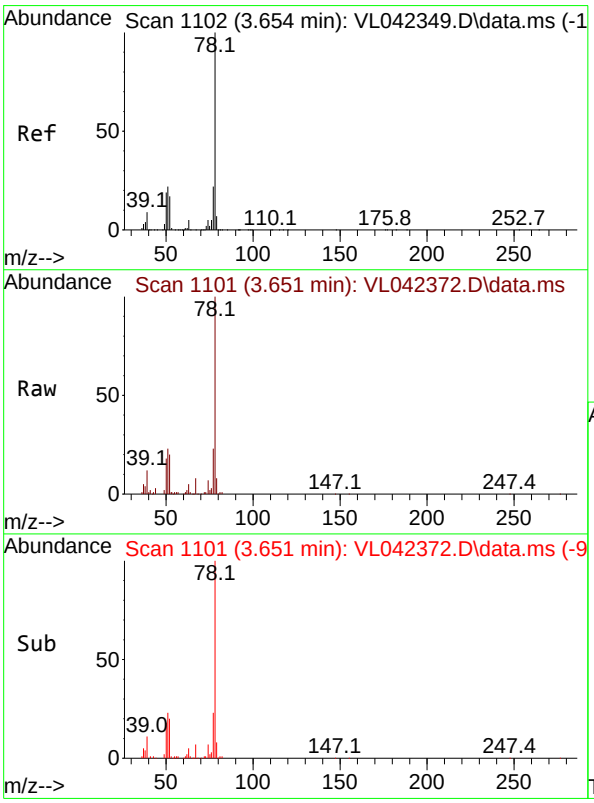
#35
Carbon Tetrachloride
Concen: 0.042 ppbv
RT: 3.758 min Scan# 11
Delta R.T. -0.003 min
Lab File: VL042372.D
Acq: 17 Apr 2025 23:26

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025

Tgt Ion:117 Resp: 1196

Ion	Ratio	Lower	Upper
117	100		
119	60.3	80.5	120.7#
121	21.2	24.2	36.2#

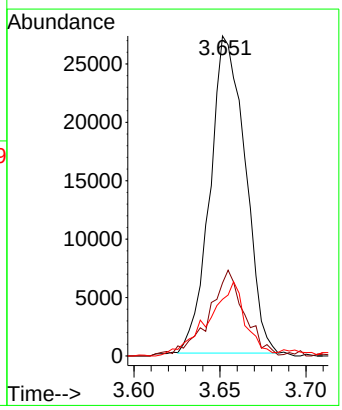


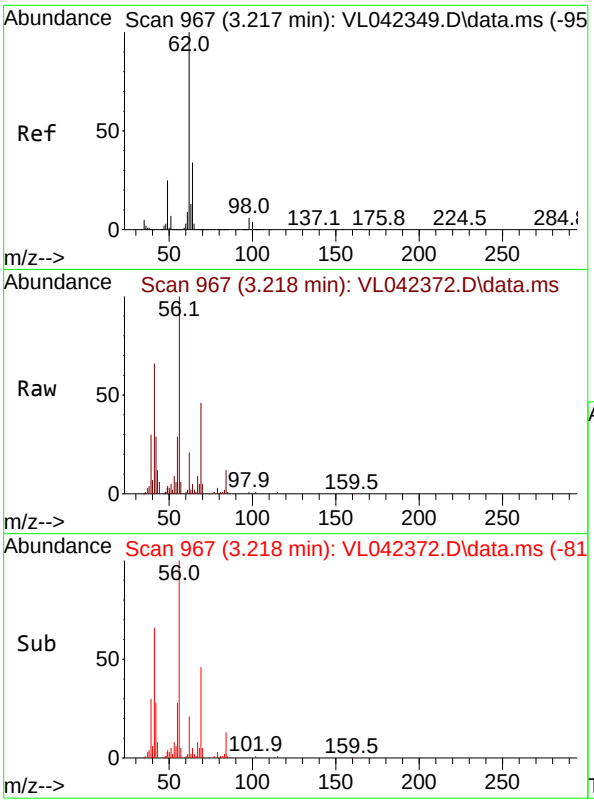


#36
Benzene
Concen: 1.128 ppbv
RT: 3.651 min Scan# 1101
Delta R.T. -0.003 min
Lab File: VL042372.D
Acq: 17 Apr 2025 23:26

Tgt Ion: 78 Resp: 38575

Ion	Ratio	Lower	Upper
78	100		
77	22.7	17.4	26.0
50	15.8	15.5	23.3



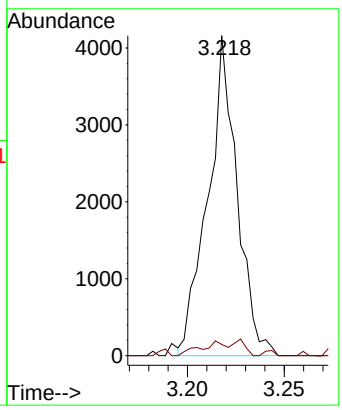


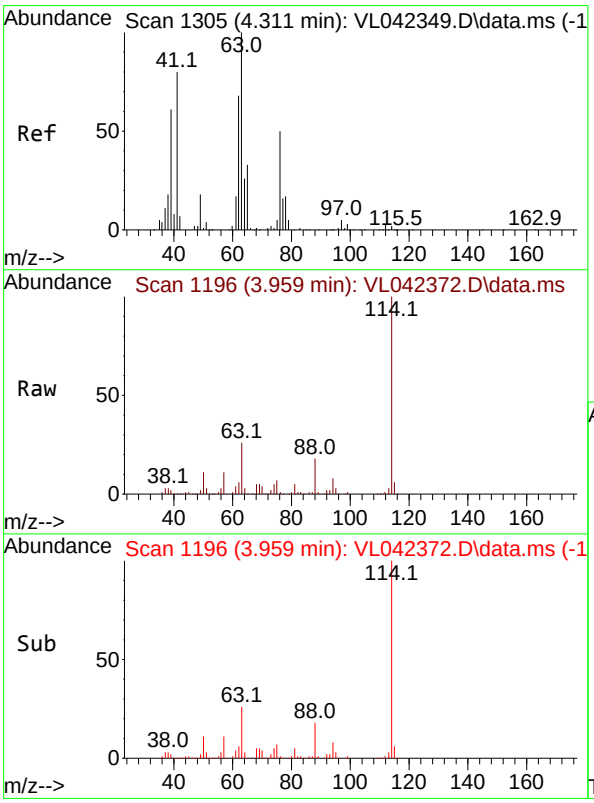
#37
1,2-Dichloroethane
Concen: 0.212 ppbv
RT: 3.218 min Scan# 9
Delta R.T. 0.000 min
Lab File: VL042372.D
Acq: 17 Apr 2025 23:26

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025

Tgt Ion: 62 Resp: 4357

Ion	Ratio	Lower	Upper
62	100		
98	8.8	5.1	7.7#

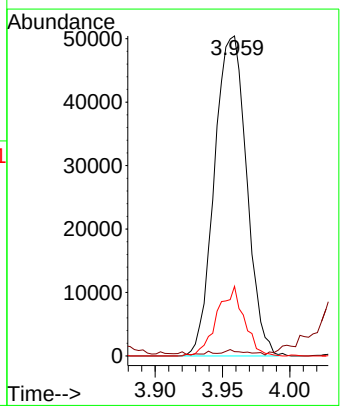


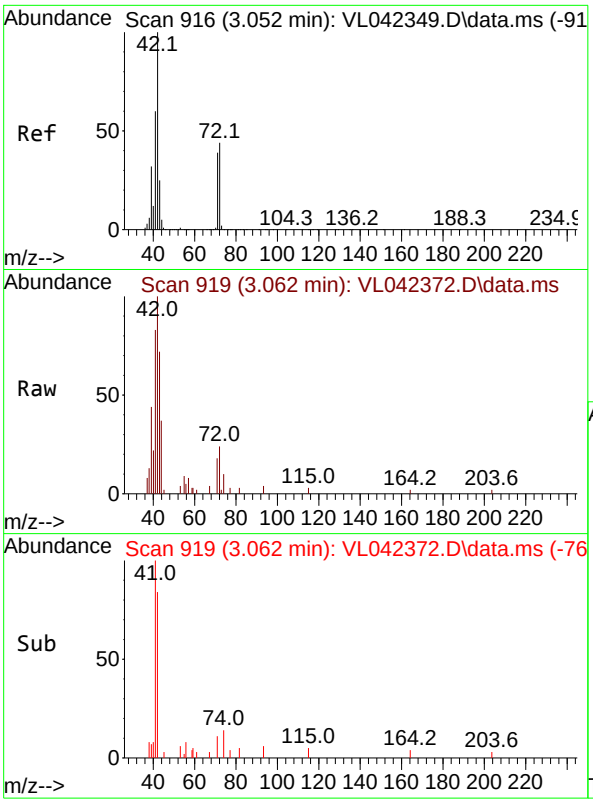


#39
1,2-Dichloropropane
Concen: 6.584 ppbv
RT: 3.959 min Scan# 1196
Delta R.T. -0.352 min
Lab File: VL042372.D
Acq: 17 Apr 2025 23:26

Tgt Ion: 63 Resp: 83896

Ion	Ratio	Lower	Upper
63	100		
41	0.6	64.2	96.2#
62	21.7	54.3	81.5#



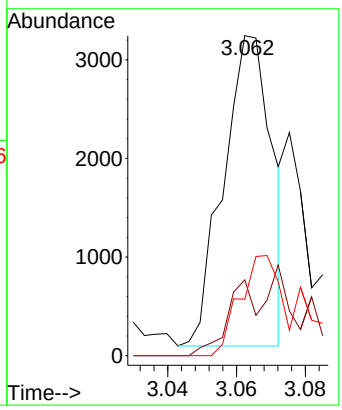


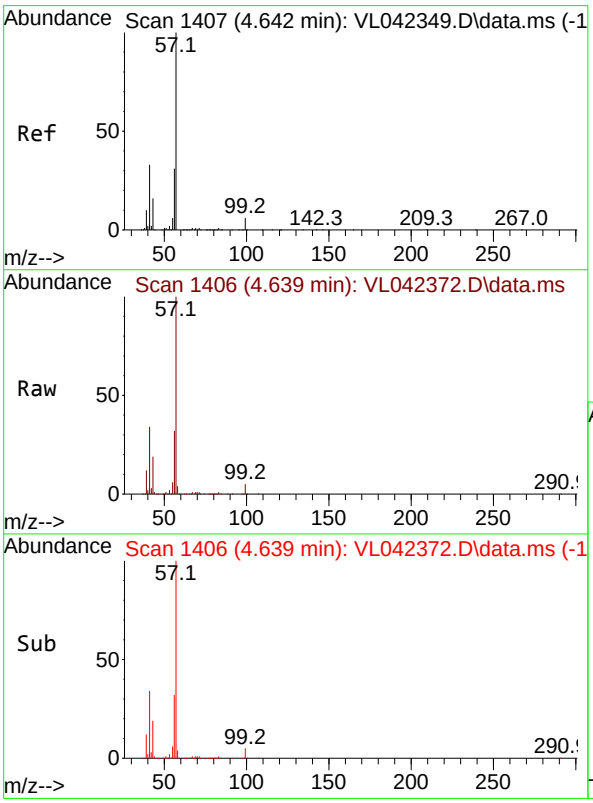
#41
Tetrahydrofuran
Concen: 0.210 ppbv
RT: 3.062 min Scan# 91
Delta R.T. 0.010 min
Lab File: VL042372.D
Acq: 17 Apr 2025 23:26

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025

Tgt Ion: 42 Resp: 3068

Ion	Ratio	Lower	Upper
42	100		
72	0.0	32.3	48.5#
71	0.0	31.4	47.2#

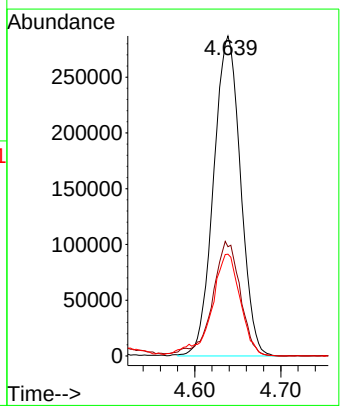


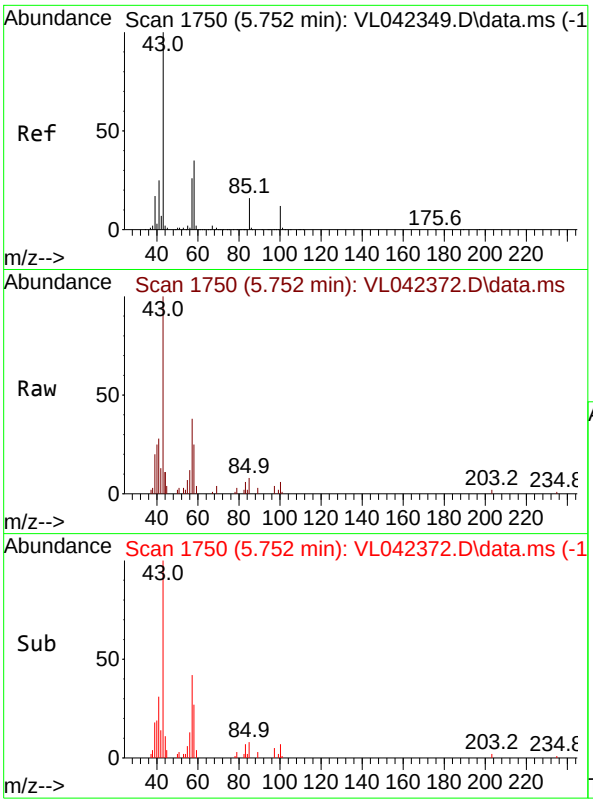


#44
2,2,4-Trimethylpentane
Concen: 10.563 ppbv
RT: 4.639 min Scan# 1406
Delta R.T. -0.003 min
Lab File: VL042372.D
Acq: 17 Apr 2025 23:26

Tgt Ion: 57 Resp: 623779

Ion	Ratio	Lower	Upper
57	100		
41	37.2	27.2	40.8
56	34.0	25.7	38.5



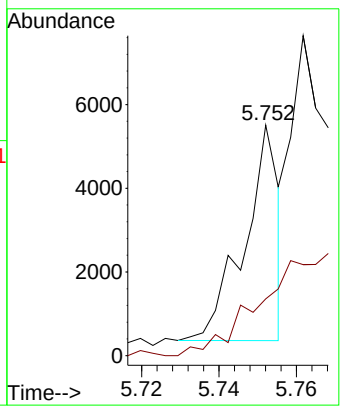


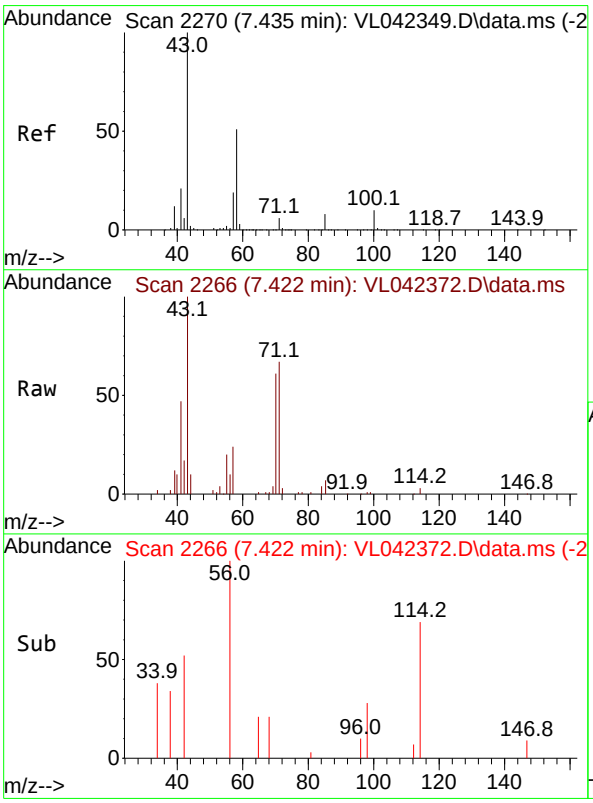
#50
4-Methyl-2-Pentanone
Concen: 0.077 ppbv
RT: 5.752 min Scan# 1
Delta R.T. 0.000 min
Lab File: VL042372.D
Acq: 17 Apr 2025 23:26

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025

Tgt Ion: 43 Resp: 3194

Ion	Ratio	Lower	Upper
43	100		
58	0.0	28.6	43.0#

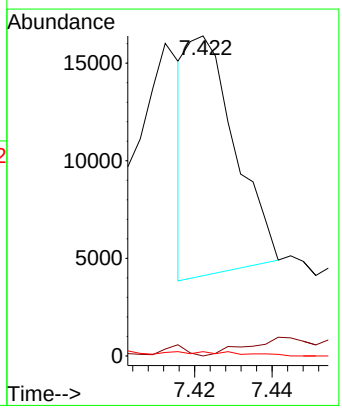


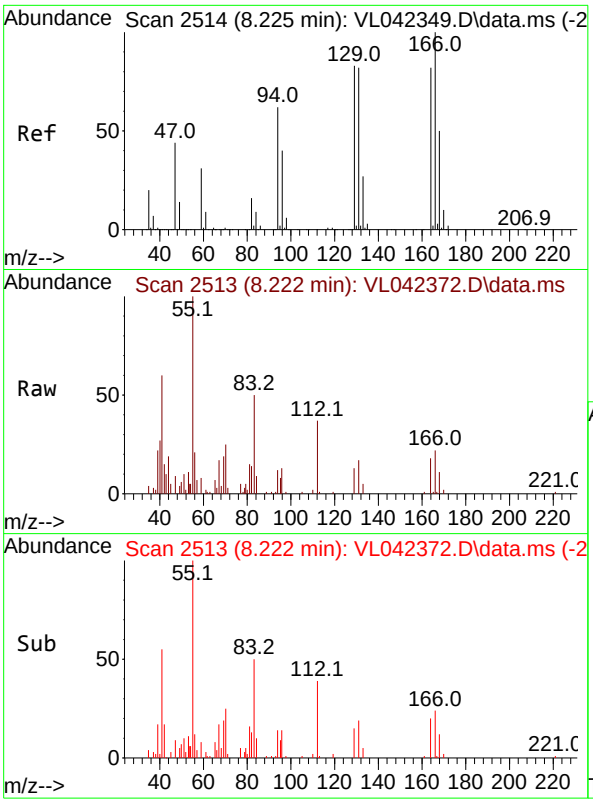


#51
2-Hexanone
Concen: 0.285 ppbv
RT: 7.422 min Scan# 2266
Delta R.T. -0.013 min
Lab File: VL042372.D
Acq: 17 Apr 2025 23:26

Tgt Ion: 43 Resp: 10664

Ion	Ratio	Lower	Upper
43	100		
58	19.3	40.2	60.4#
98	0.0	0.1	0.1#



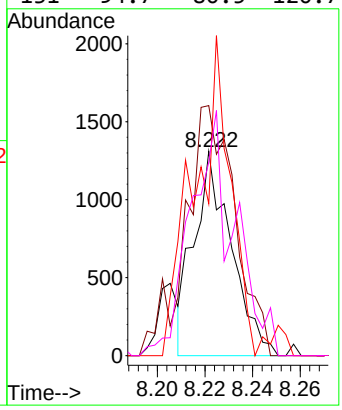


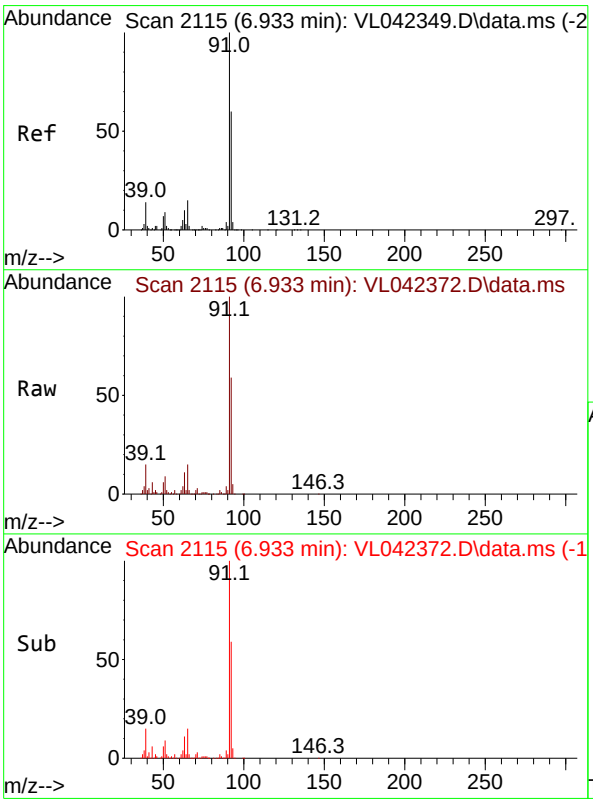
#52
Tetrachloroethene
Concen: 0.107 ppbv
RT: 8.222 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL042372.D
Acq: 17 Apr 2025 23:26

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025

Tgt Ion:164 Resp: 1420

Ion	Ratio	Lower	Upper
164	100		
166	122.4	98.2	147.2
129	59.5	81.8	122.8#
131	94.7	80.5	120.7

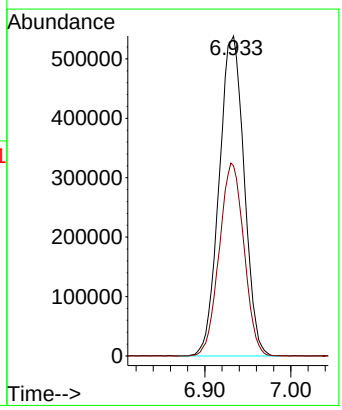


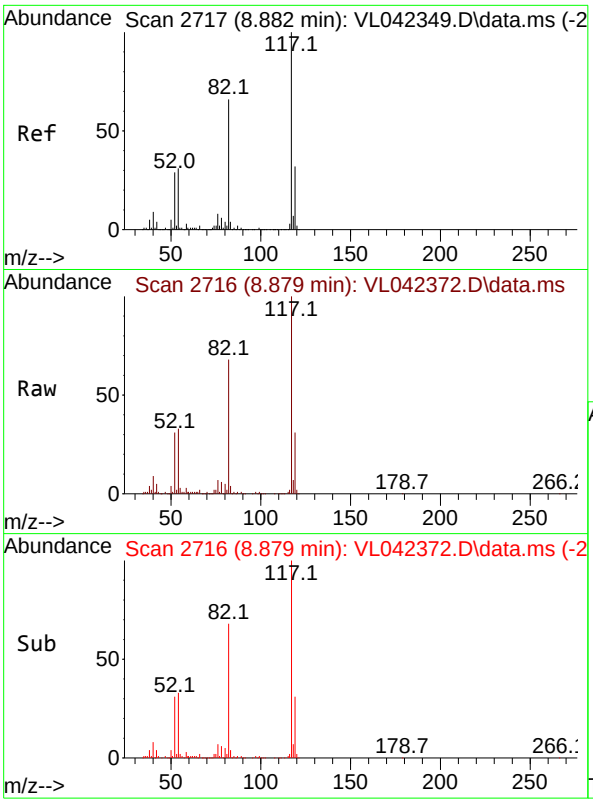


#53
Toluene
Concen: 26.450 ppbv
RT: 6.933 min Scan# 2115
Delta R.T. 0.000 min
Lab File: VL042372.D
Acq: 17 Apr 2025 23:26

Tgt Ion: 91 Resp: 1085281

Ion	Ratio	Lower	Upper
91	100		
92	59.7	48.2	72.4



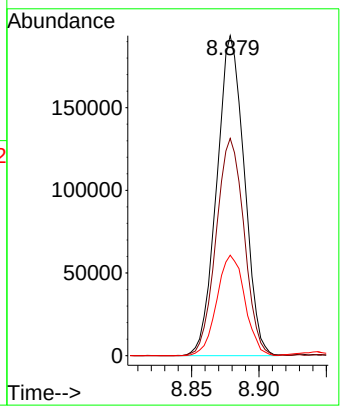


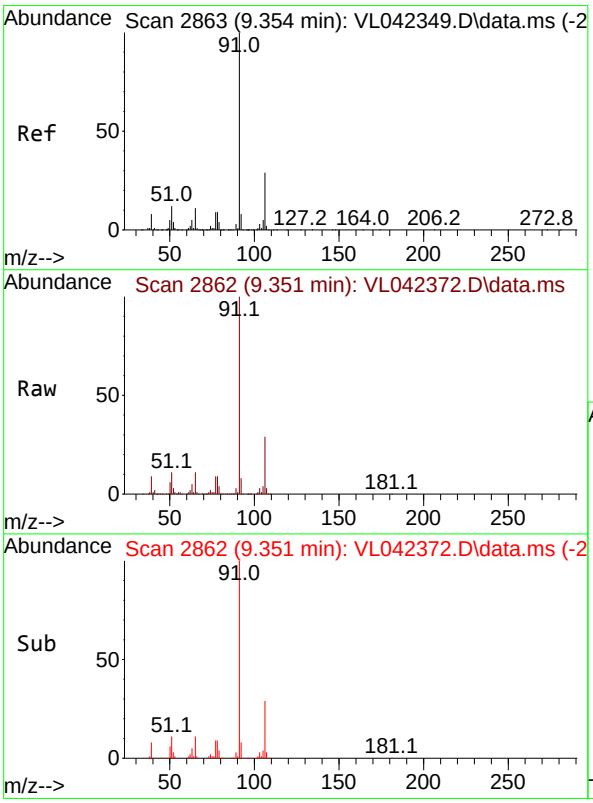
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.879 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL042372.D
Acq: 17 Apr 2025 23:26

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025

Tgt Ion:117 Resp: 275197

Ion	Ratio	Lower	Upper
117	100		
82	69.1	57.8	86.6
119	32.0	25.2	37.8

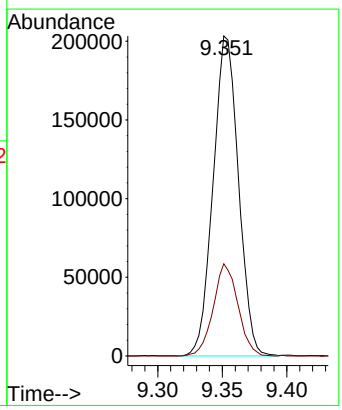


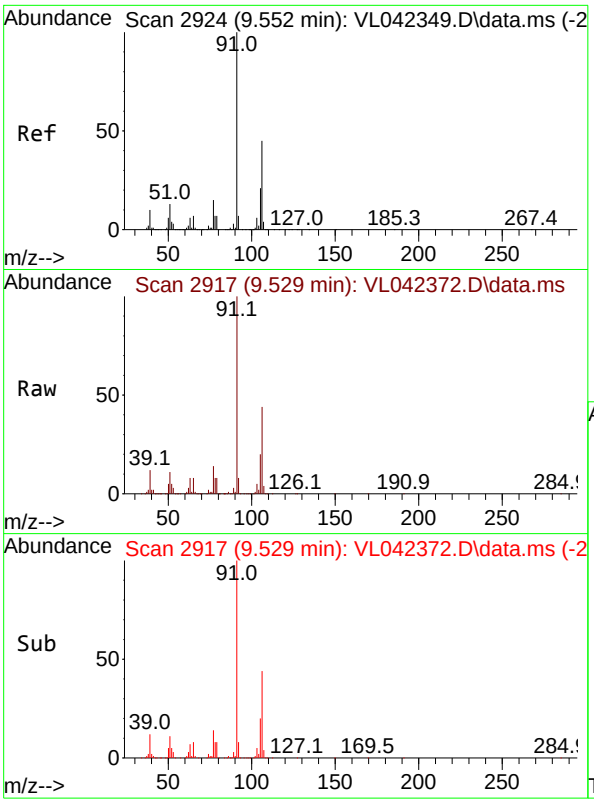


#58
Ethyl Benzene
Concen: 5.088 ppbv
RT: 9.351 min Scan# 2862
Delta R.T. -0.003 min
Lab File: VL042372.D
Acq: 17 Apr 2025 23:26

Tgt Ion: 91 Resp: 277437

Ion	Ratio	Lower	Upper
91	100		
106	28.8	23.0	34.4



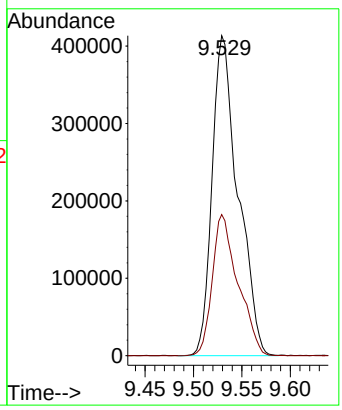


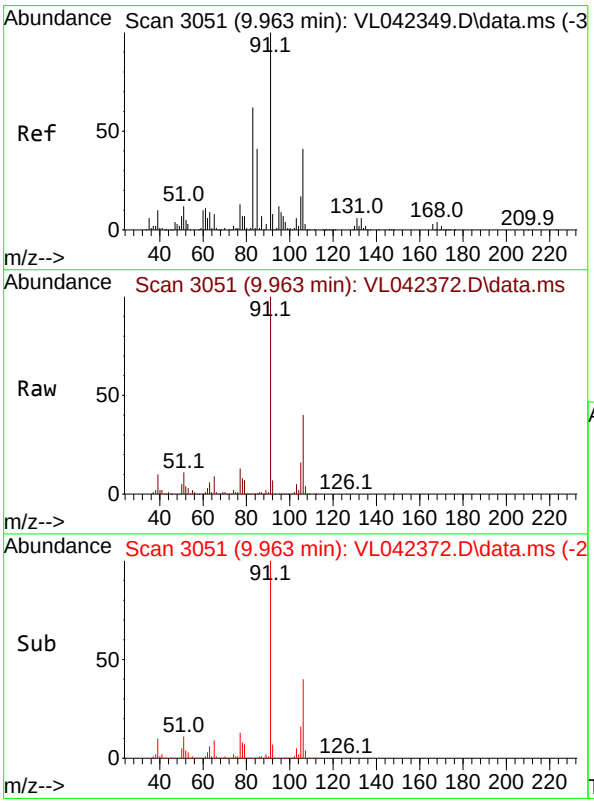
#59
m/p-Xylene
Concen: 17.539 ppbv
RT: 9.529 min Scan# 2
Delta R.T. -0.022 min
Lab File: VL042372.D
Acq: 17 Apr 2025 23:26

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025

Tgt Ion: 91 Resp: 770401

Ion	Ratio	Lower	Upper
91	100		
106	43.7	35.4	53.2

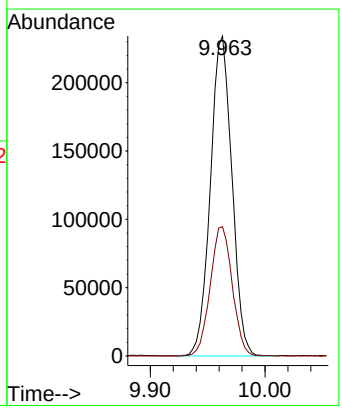


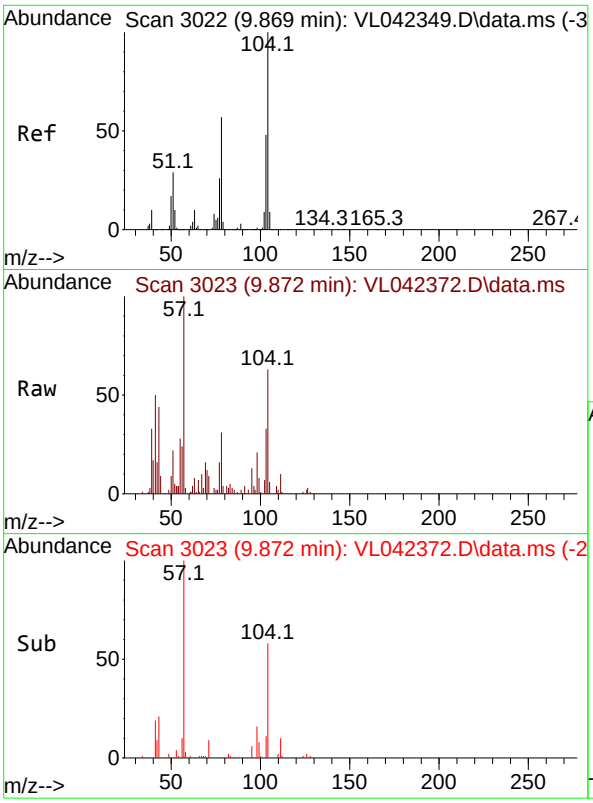


#60
o-Xylene
Concen: 6.906 ppbv
RT: 9.963 min Scan# 3051
Delta R.T. 0.000 min
Lab File: VL042372.D
Acq: 17 Apr 2025 23:26

Tgt Ion: 91 Resp: 305451

Ion	Ratio	Lower	Upper
91	100		
106	41.3	21.1	63.4



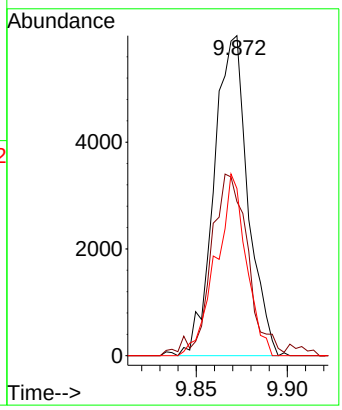


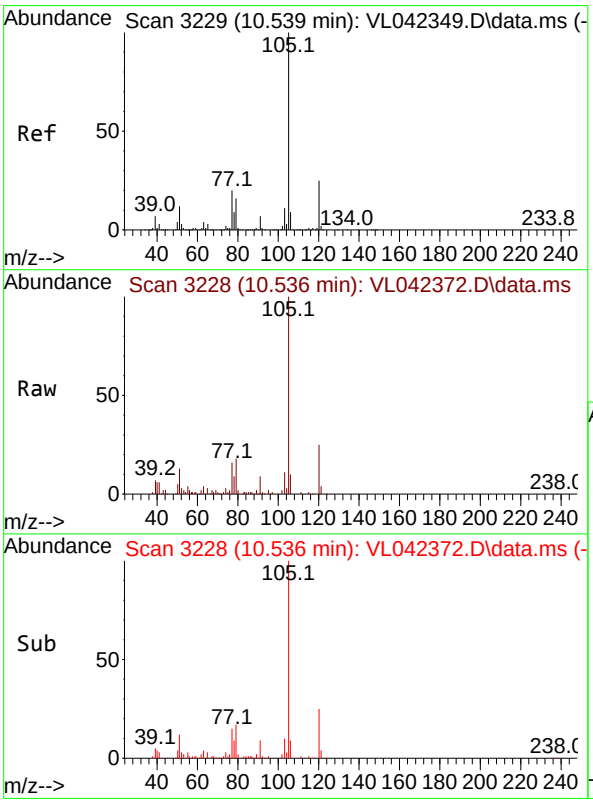
#61
Styrene
Concen: 0.366 ppbv
RT: 9.872 min Scan# 3
Delta R.T. 0.004 min
Lab File: VL042372.D
Acq: 17 Apr 2025 23:26

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025

Tgt Ion:104 Resp: 7737

Ion	Ratio	Lower	Upper
104	100		
78	63.5	44.6	66.8
103	50.7	37.4	56.0

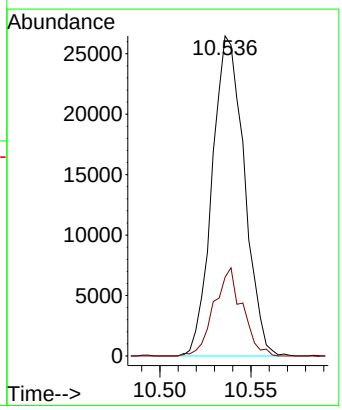


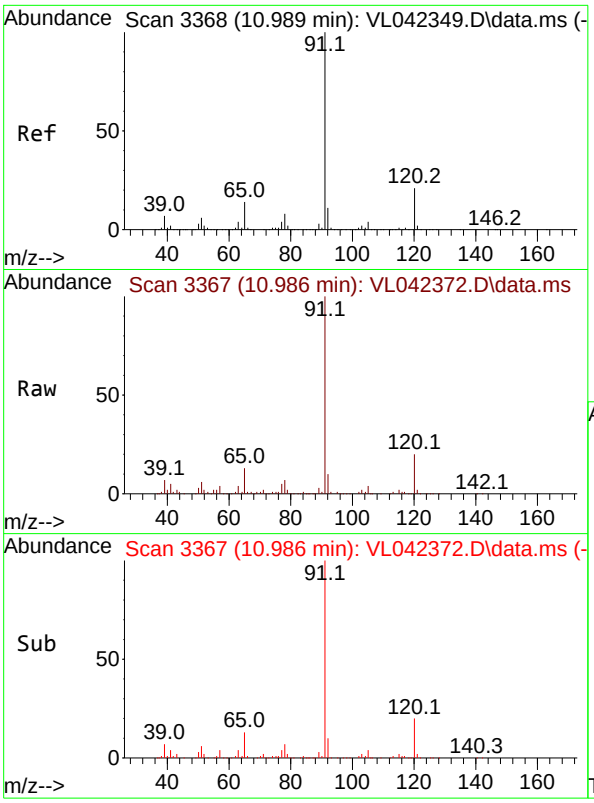


#62
Isopropylbenzene
Concen: 0.499 ppbv
RT: 10.536 min Scan# 3228
Delta R.T. -0.003 min
Lab File: VL042372.D
Acq: 17 Apr 2025 23:26

Tgt Ion:105 Resp: 32373

Ion	Ratio	Lower	Upper
105	100		
120	24.4	19.8	29.8



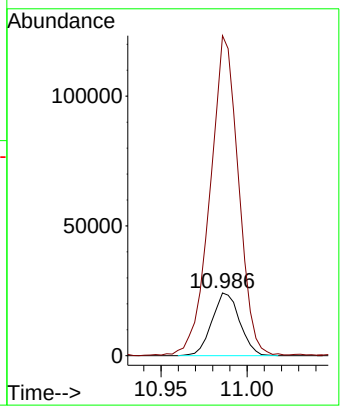


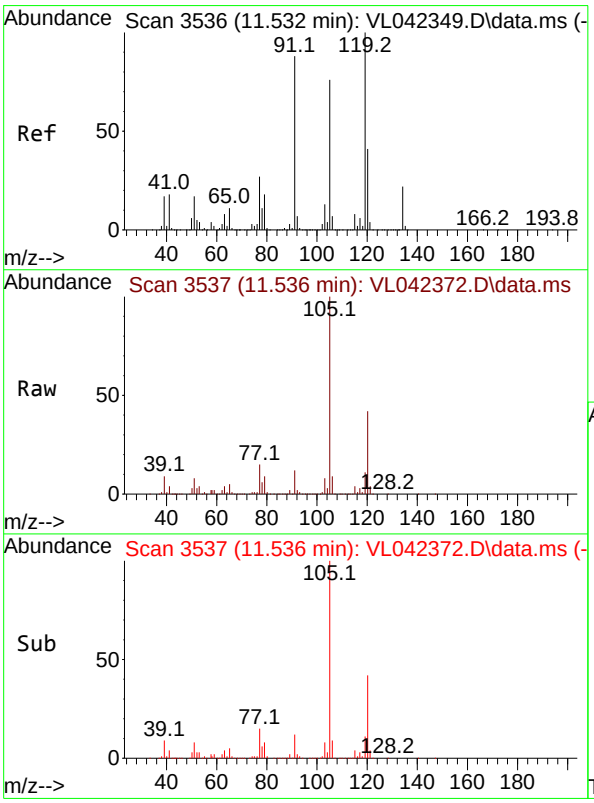
#64
n-propylbenzene
Concen: 1.657 ppbv
RT: 10.986 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042372.D
Acq: 17 Apr 2025 23:26

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025

Tgt Ion:120 Resp: 27039

Ion	Ratio	Lower	Upper
120	100		
91	526.4	392.4	588.6

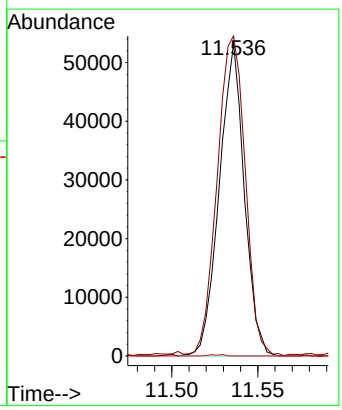


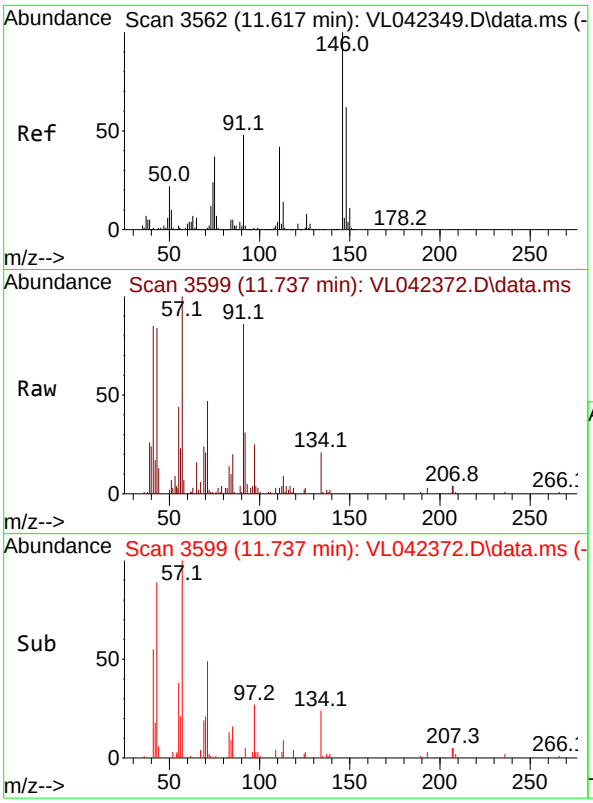


#65
tert-Butylbenzene
Concen: 0.900 ppbv
RT: 11.536 min Scan# 3537
Delta R.T. 0.004 min
Lab File: VL042372.D
Acq: 17 Apr 2025 23:26

Tgt Ion:119 Resp: 53708

Ion	Ratio	Lower	Upper
119	100		
91	114.6	74.6	111.8#
134	0.0	18.8	28.2#



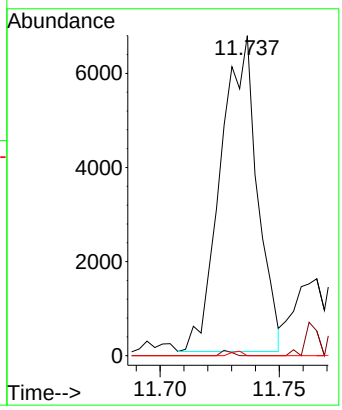


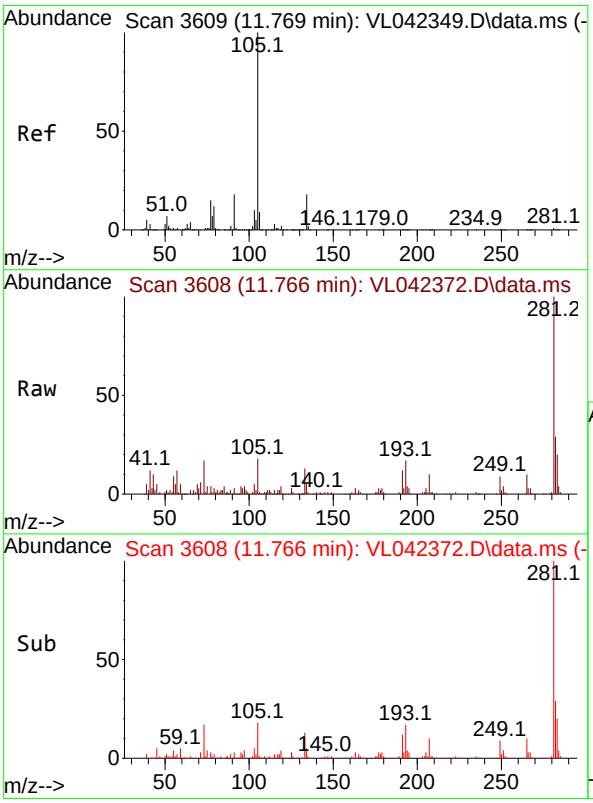
#66
Benzyl Chloride
Concen: 1.094 ppbv
RT: 11.737 min Scan# 3
Delta R.T. 0.120 min
Lab File: VL042372.D
Acq: 17 Apr 2025 23:26

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025

Tgt Ion: 91 Resp: 7178

Ion	Ratio	Lower	Upper
91	100		
126	1.8	11.8	17.6#
128	0.4	4.5	6.7#

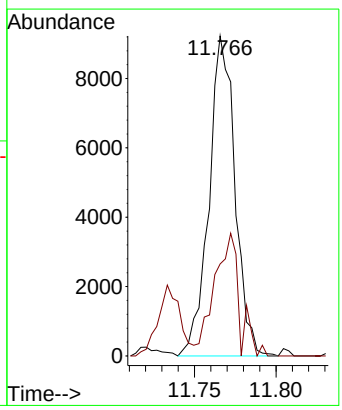


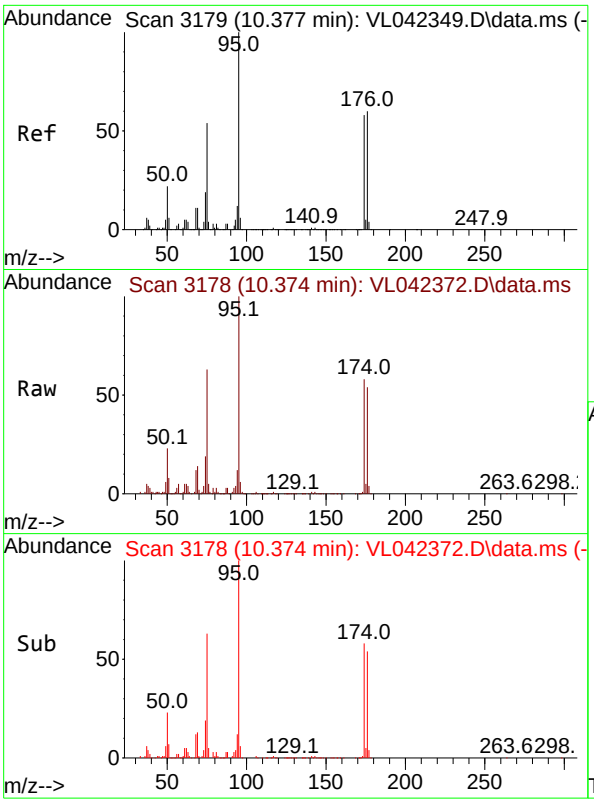


#67
sec-Butylbenzene
Concen: 0.123 ppbv
RT: 11.766 min Scan# 3608
Delta R.T. -0.003 min
Lab File: VL042372.D
Acq: 17 Apr 2025 23:26

Tgt Ion:105 Resp: 10233

Ion	Ratio	Lower	Upper
105	100		
134	36.2	14.6	21.8#



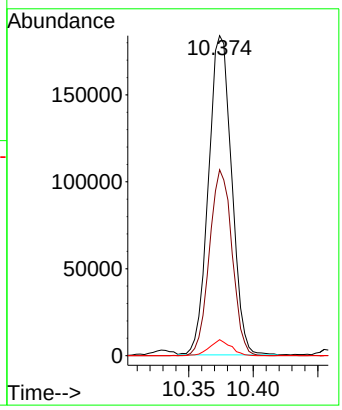


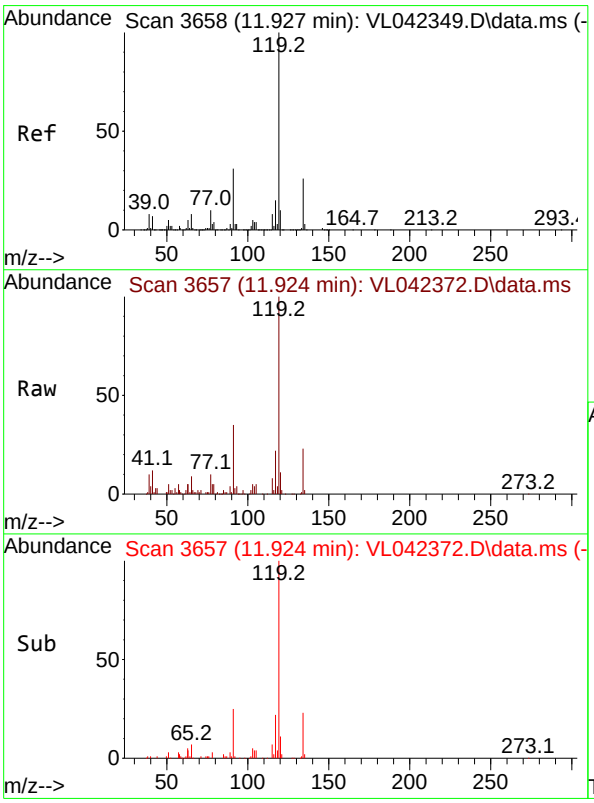
#68
1-Bromo-4-Fluorobenzene
Concen: 10.137 ppbv
RT: 10.374 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042372.D
Acq: 17 Apr 2025 23:26

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025

Tgt Ion: 95 Resp: 229240

Ion	Ratio	Lower	Upper
95	100		
174	57.0	48.5	72.7
175	4.6	3.7	5.5

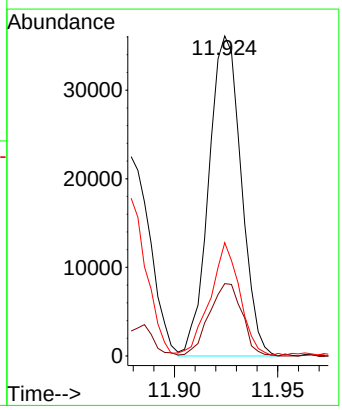


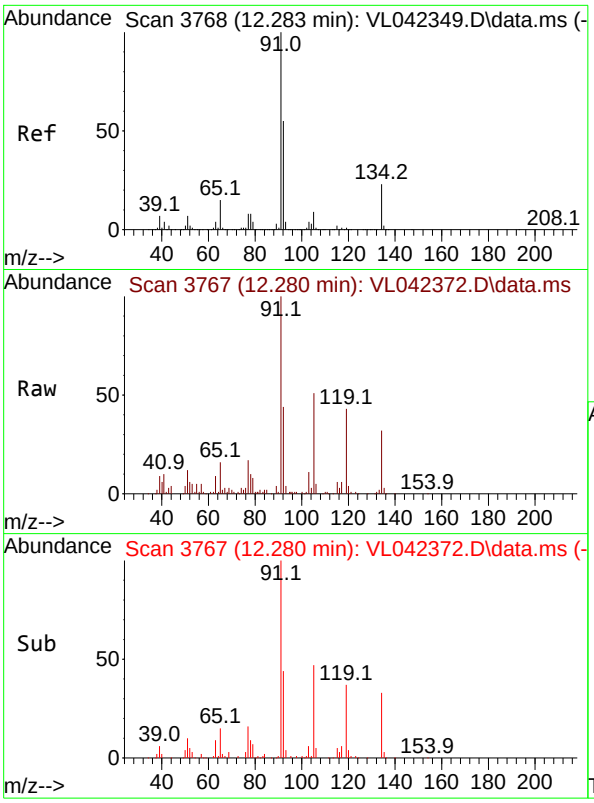


#69
p-Isopropyltoluene
Concen: 0.547 ppbv
RT: 11.924 min Scan# 3657
Delta R.T. -0.003 min
Lab File: VL042372.D
Acq: 17 Apr 2025 23:26

Tgt Ion:119 Resp: 39473

Ion	Ratio	Lower	Upper
119	100		
134	23.0	20.0	30.0
91	33.9	24.4	36.6



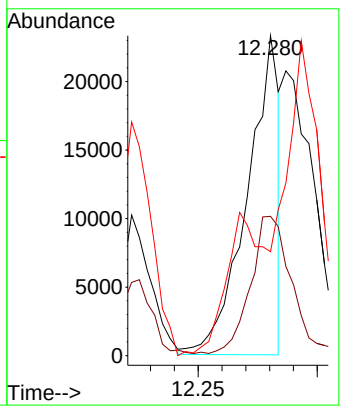


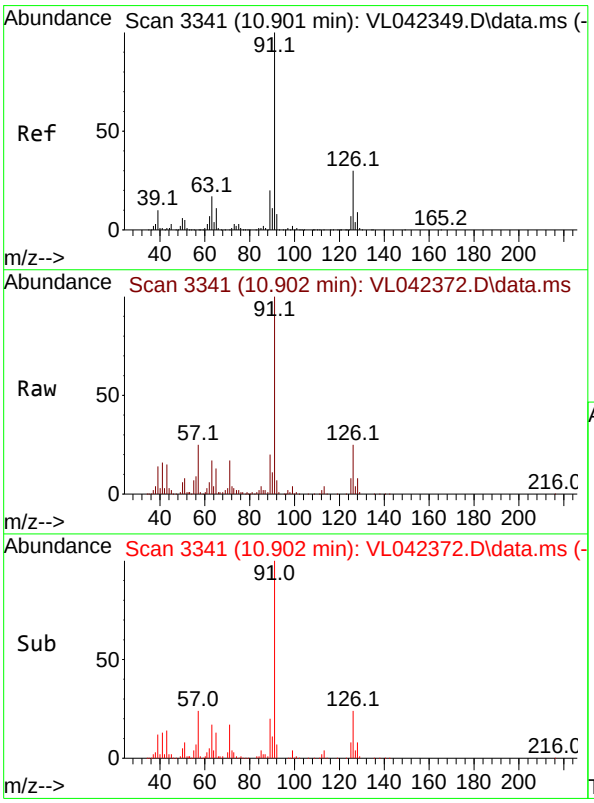
#70
n-Butylbenzene
Concen: 0.289 ppbv
RT: 12.280 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042372.D
Acq: 17 Apr 2025 23:26

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025

Tgt Ion: 91 Resp: 21674

Ion	Ratio	Lower	Upper
91	100		
92	57.1	44.2	66.4
134	0.0	18.2	27.4#

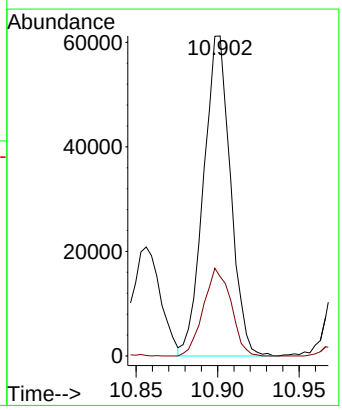


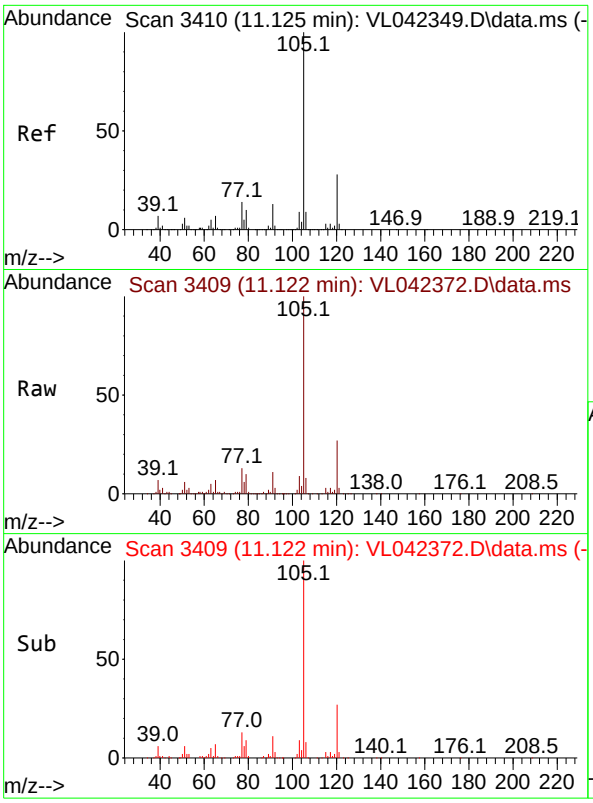


#71
2-Chlorotoluene
Concen: 1.381 ppbv
RT: 10.902 min Scan# 3341
Delta R.T. 0.000 min
Lab File: VL042372.D
Acq: 17 Apr 2025 23:26

Tgt Ion: 91 Resp: 70326

Ion	Ratio	Lower	Upper
91	100		
126	28.3	11.4	45.4



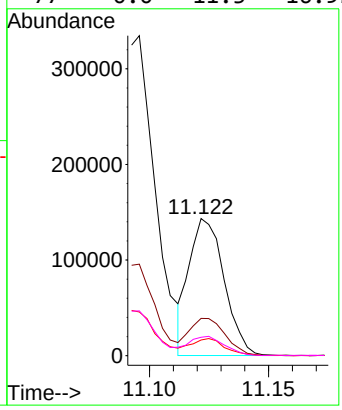


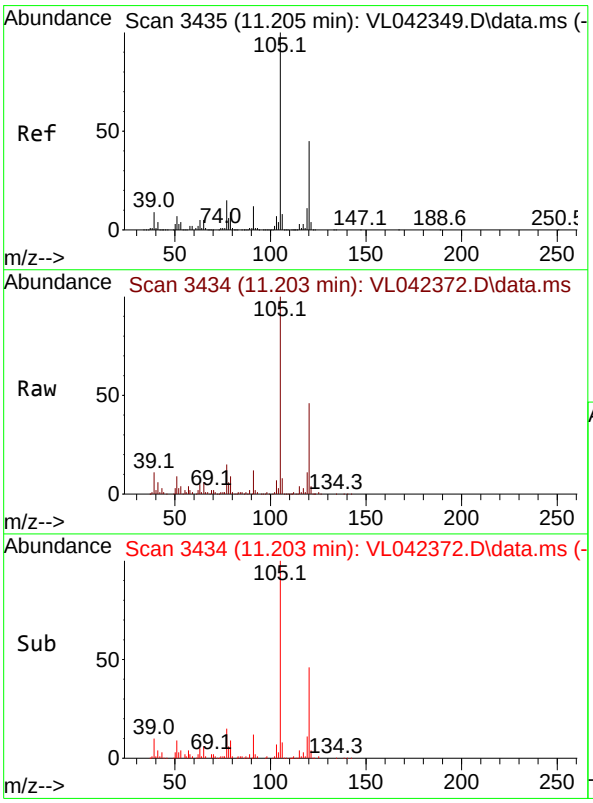
#72
4-Ethyltoluene
Concen: 2.714 ppbv
RT: 11.122 min Scan# 34
Delta R.T. -0.003 min
Lab File: VL042372.D
Acq: 17 Apr 2025 23:26

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025

Tgt Ion:105 Resp: 146733

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#

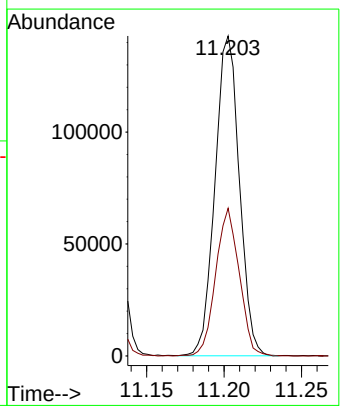


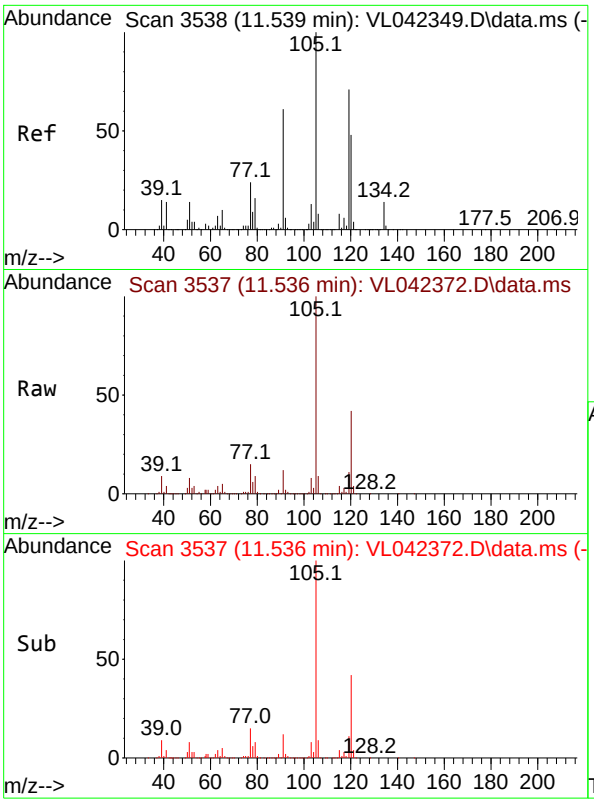


#73
1,3,5-Trimethylbenzene
Concen: 3.271 ppbv
RT: 11.203 min Scan# 3434
Delta R.T. -0.003 min
Lab File: VL042372.D
Acq: 17 Apr 2025 23:26

Tgt Ion:105 Resp: 156177

Ion	Ratio	Lower	Upper
105	100		
120	46.1	35.6	53.4



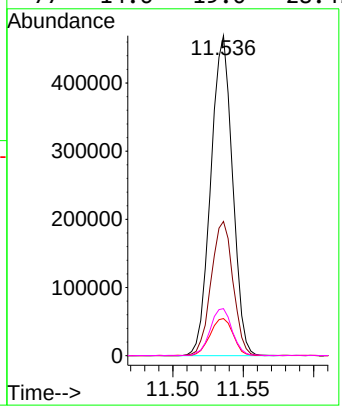


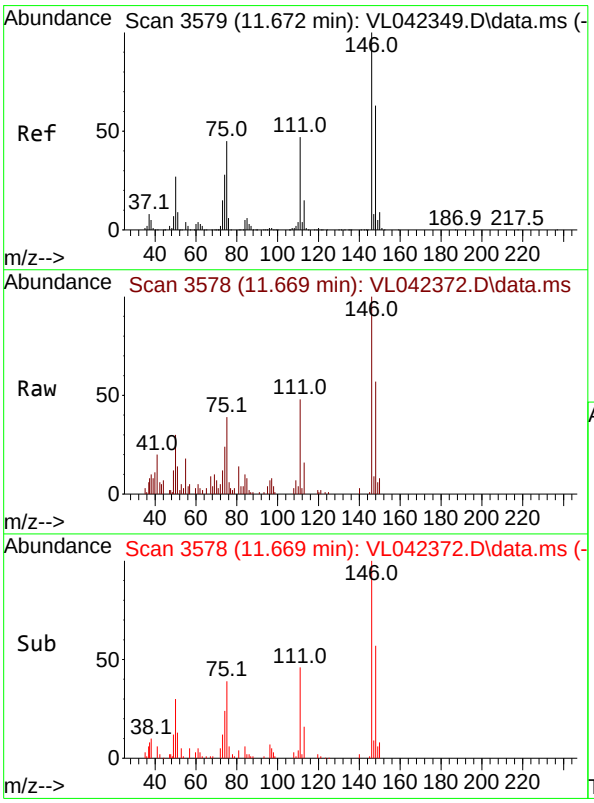
#74
1,2,4-Trimethylbenzene
Concen: 9.018 ppbv
RT: 11.536 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042372.D
Acq: 17 Apr 2025 23:26

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025

Tgt Ion:105 Resp: 502862

Ion	Ratio	Lower	Upper
105	100		
120	42.0	38.1	57.1
91	11.6	48.8	73.2#
77	14.6	19.0	28.4#

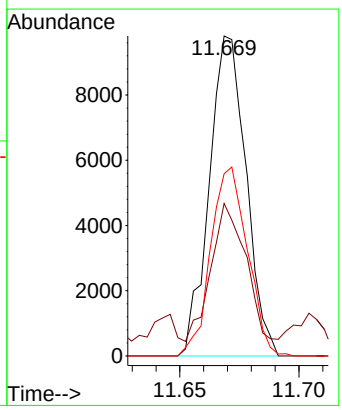


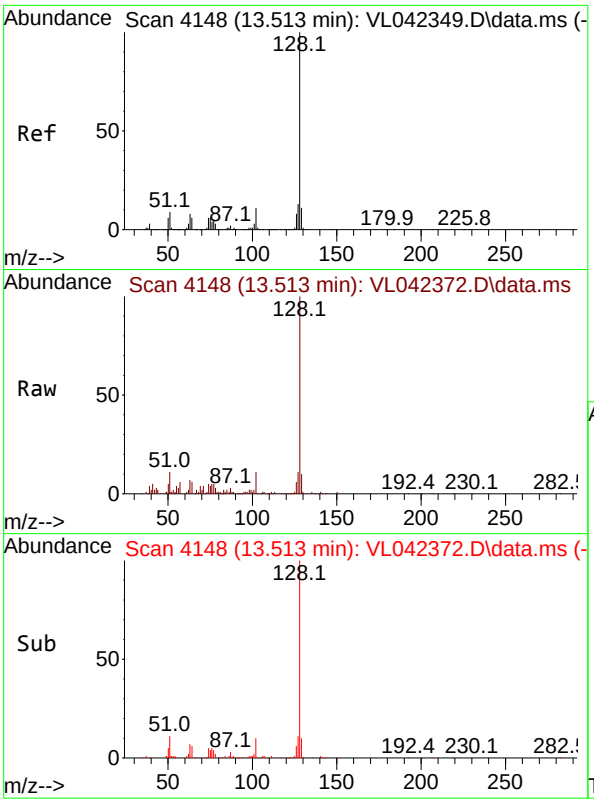


#76
1,4-Dichlorobenzene
Concen: 0.362 ppbv
RT: 11.669 min Scan# 3578
Delta R.T. -0.003 min
Lab File: VL042372.D
Acq: 17 Apr 2025 23:26

Tgt Ion:146 Resp: 10548

Ion	Ratio	Lower	Upper
146	100		
111	73.6	24.2	72.6#
148	58.9	32.1	96.5



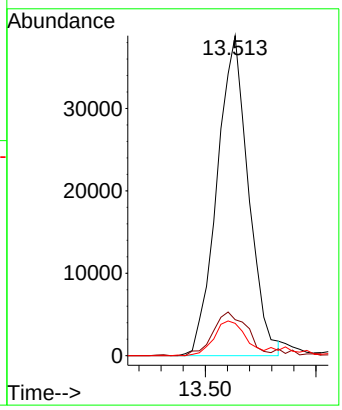


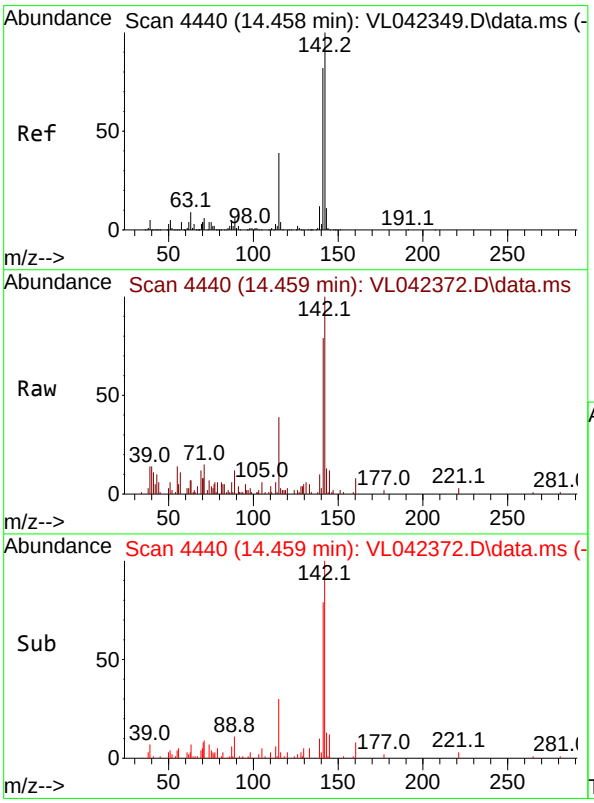
#79
Naphthalene
Concen: 0.576 ppbv
RT: 13.513 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042372.D
Acq: 17 Apr 2025 23:26

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025

Tgt Ion:128 Resp: 38387

Ion	Ratio	Lower	Upper
128	100		
127	11.3	10.6	15.8
129	9.9	8.6	12.8

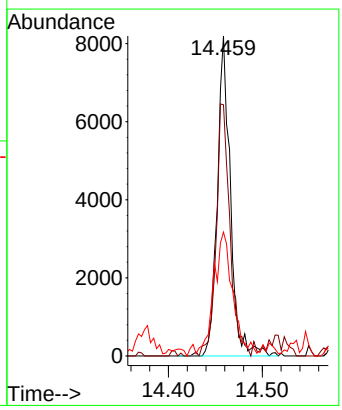




#80
Naphthalene,2-methyl-
Concen: 0.209 ppbv
RT: 14.459 min Scan# 4440
Delta R.T. 0.000 min
Lab File: VL042372.D
Acq: 17 Apr 2025 23:26

Tgt Ion:142 Resp: 7927

Ion	Ratio	Lower	Upper
142	100		
141	82.5	66.8	100.2
115	61.2	33.4	50.2#



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042373.D
Acq On : 17 Apr 2025 23:57
Operator : SY/MD
Sample : Q1726-07DL 20X
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025DL

Quant Time: Apr 18 02:47:24 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

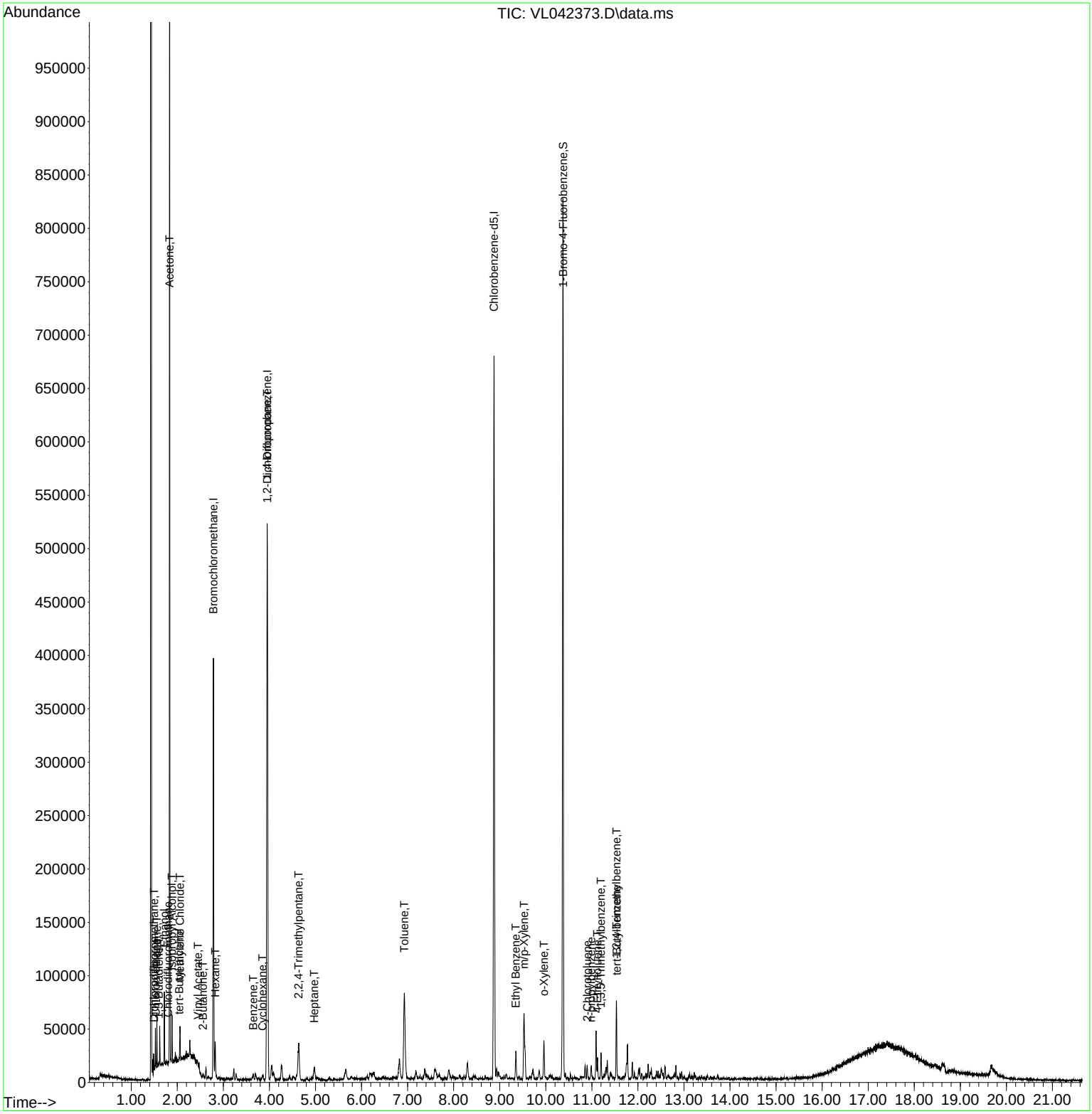
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.784	49	107602	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	303479	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	266154	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	220060	10.062	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 100.600%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.496	85	929	0.049	ppbv #	82
3) Chlorodifluoromethane	1.803	51	873	0.048	ppbv	93
4) Chloromethane	1.531	50	570	0.076	ppbv #	84
9) Propene	1.557	41	5479	0.665	ppbv	92
10) Heptane	4.972	43	2011	0.087	ppbv #	1
13) Ethanol	1.719	45	24762	18.897	ppbv	74
15) Acetone	1.832	43	515571	29.269	ppbv	99
16) 1,3-Butadiene	1.599	39	449	0.053	ppbv #	1
17) tert-Butyl alcohol	2.043	59	992	0.045	ppbv #	1
19) Isopropyl Alcohol	1.884	45	18557	1.896	ppbv #	1
20) Methylene Chloride	2.059	84	4971	0.721	ppbv #	88
23) Vinyl Acetate	2.451	43	991	0.139	ppbv #	83
26) Hexane	2.823	57	8236	0.469	ppbv #	35
30) Cyclohexane	3.852	84	863	0.061	ppbv #	19
34) 2-Butanone	2.557	43	2252	0.094	ppbv	97
36) Benzene	3.648	78	1213	0.037	ppbv #	70
39) 1,2-Dichloropropane	3.956	63	80554	6.604	ppbv #	24
44) 2,2,4-Trimethylpentane	4.632	57	16572	0.293	ppbv #	30
53) Toluene	6.927	91	53637	1.365	ppbv	97
58) Ethyl Benzene	9.348	91	13474	0.256	ppbv	99
59) m/p-Xylene	9.529	91	30753	0.724	ppbv #	83
60) o-Xylene	9.960	91	14506	0.339	ppbv	98
64) n-propylbenzene	10.986	120	1406	0.089	ppbv	96
65) tert-Butylbenzene	11.539	119	3065	0.053	ppbv #	64
71) 2-Chlorotoluene	10.902	91	3618	0.073	ppbv	93
72) 4-Ethyltoluene	11.122	105	6684	0.128	ppbv #	56
73) 1,3,5-Trimethylbenzene	11.199	105	8296	0.180	ppbv	95
74) 1,2,4-Trimethylbenzene	11.536	105	25240	0.468	ppbv #	62

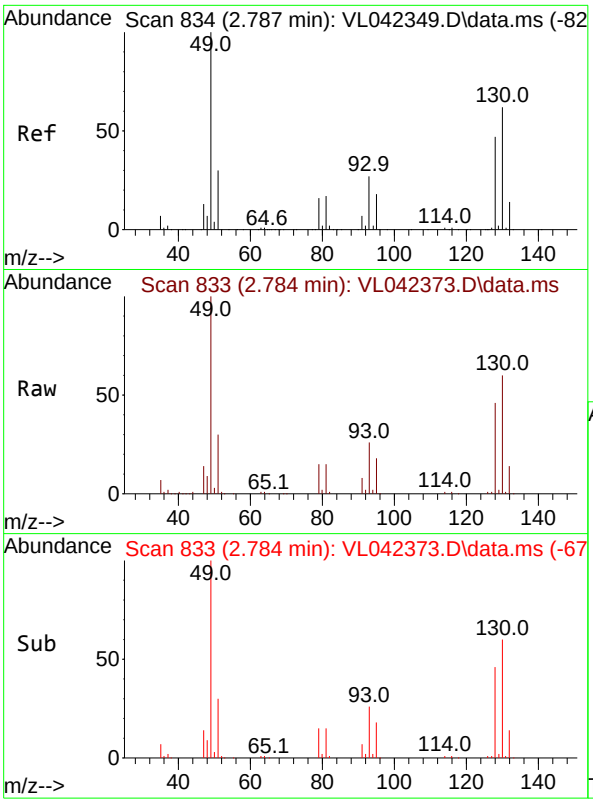
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042373.D
Acq On : 17 Apr 2025 23:57
Operator : SY/MD
Sample : Q1726-07DL 20X
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025DL

Quant Time: Apr 18 02:47:24 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



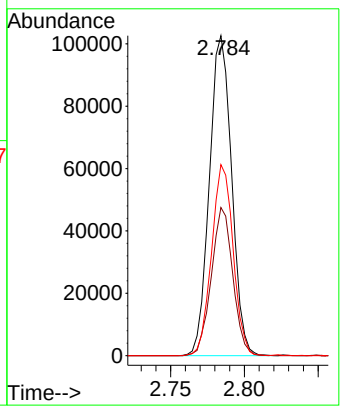


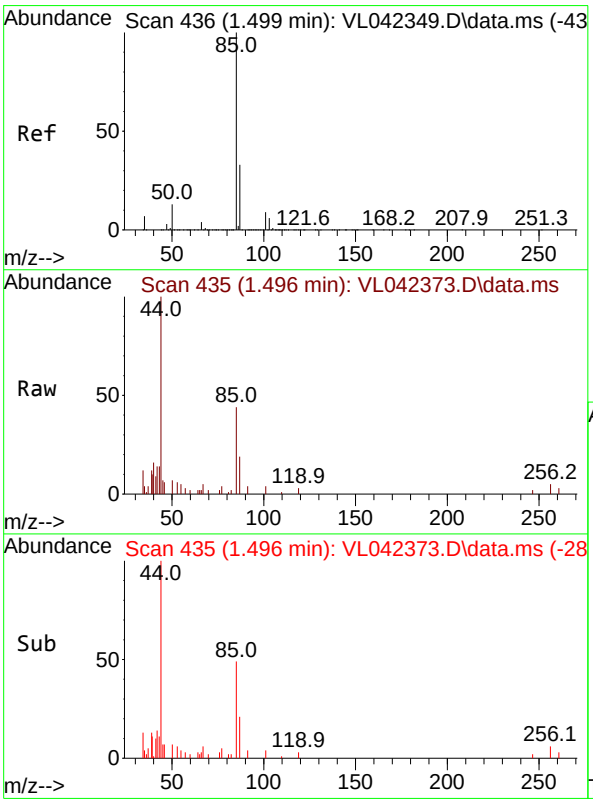
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 8
Delta R.T. -0.003 min
Lab File: VL042373.D
Acq: 17 Apr 2025 23:57

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025DL

Tgt Ion: 49 Resp: 107602

Ion	Ratio	Lower	Upper
49	100		
128	44.6	22.8	68.4
130	58.0	29.3	88.0

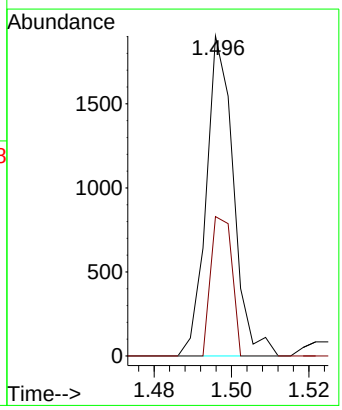


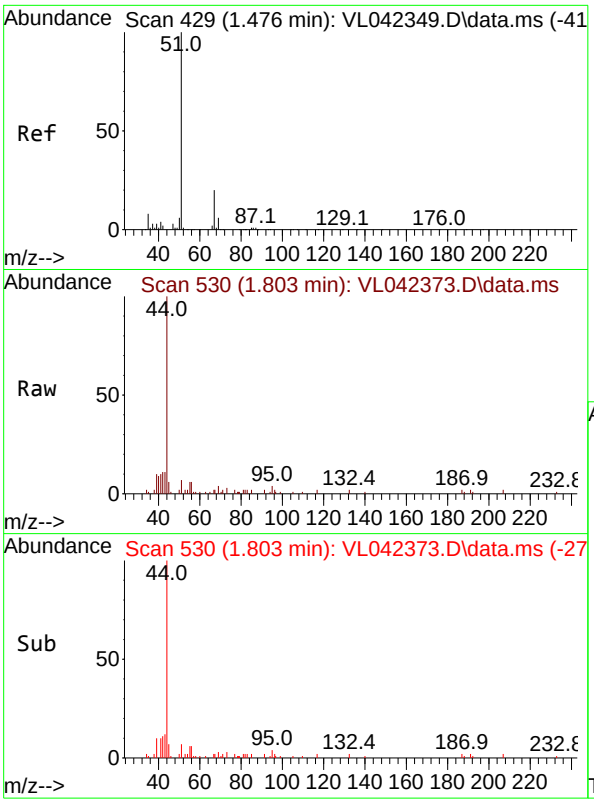


#2
Dichlorodifluoromethane
Concen: 0.049 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.003 min
Lab File: VL042373.D
Acq: 17 Apr 2025 23:57

Tgt Ion: 85 Resp: 929

Ion	Ratio	Lower	Upper
85	100		
87	43.5	26.6	39.8#



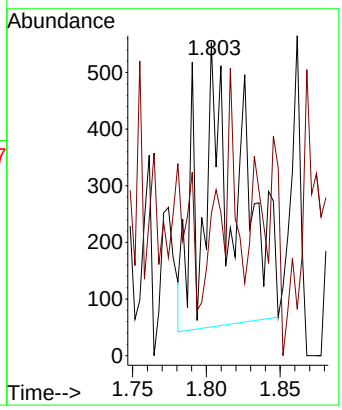


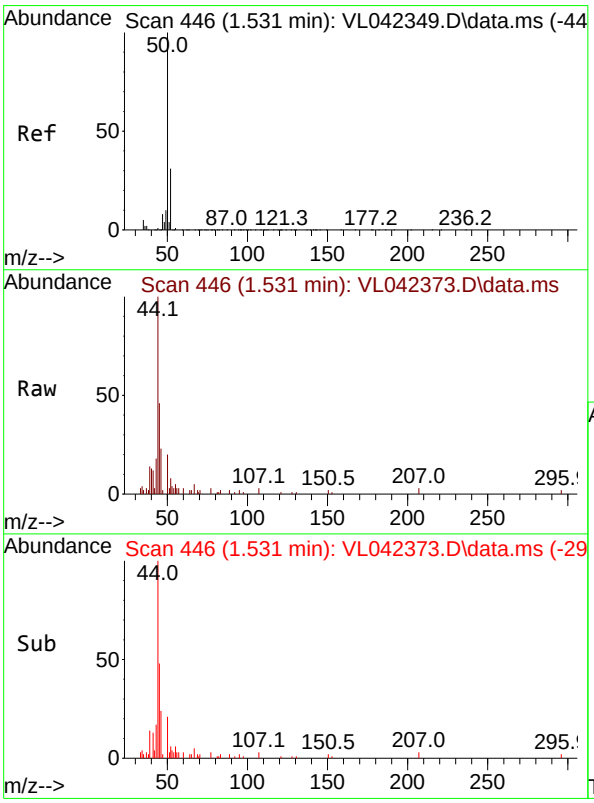
#3
Chlorodifluoromethane
Concen: 0.048 ppbv
RT: 1.803 min Scan# 5
Delta R.T. 0.327 min
Lab File: VL042373.D
Acq: 17 Apr 2025 23:57

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025DL

Tgt Ion: 51 Resp: 873

Ion	Ratio	Lower	Upper
51	100		
67	23.7	16.2	24.4

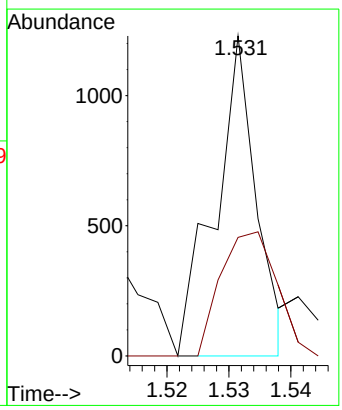


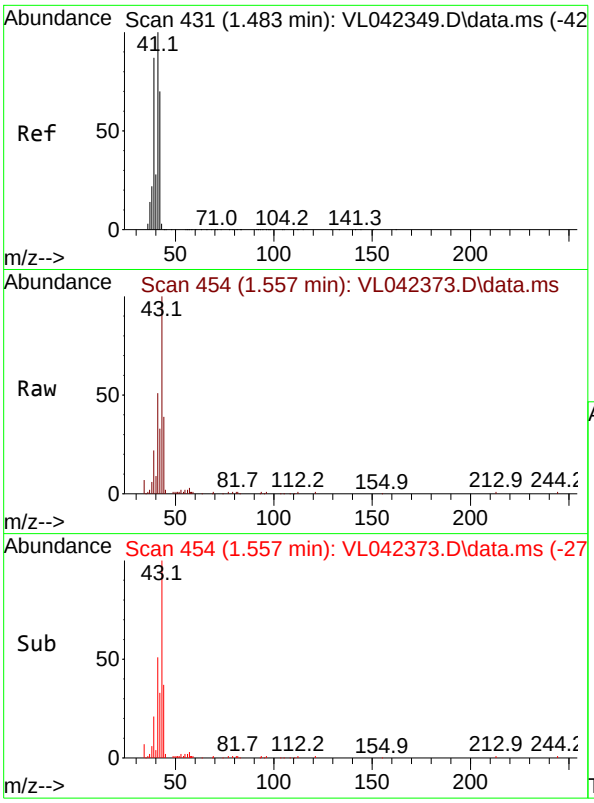


#4
Chloromethane
Concen: 0.076 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL042373.D
Acq: 17 Apr 2025 23:57

Tgt Ion: 50 Resp: 570

Ion	Ratio	Lower	Upper
50	100		
52	39.5	24.7	37.1#



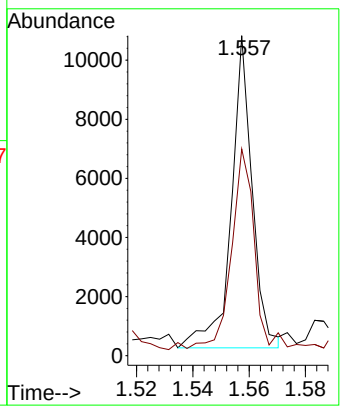


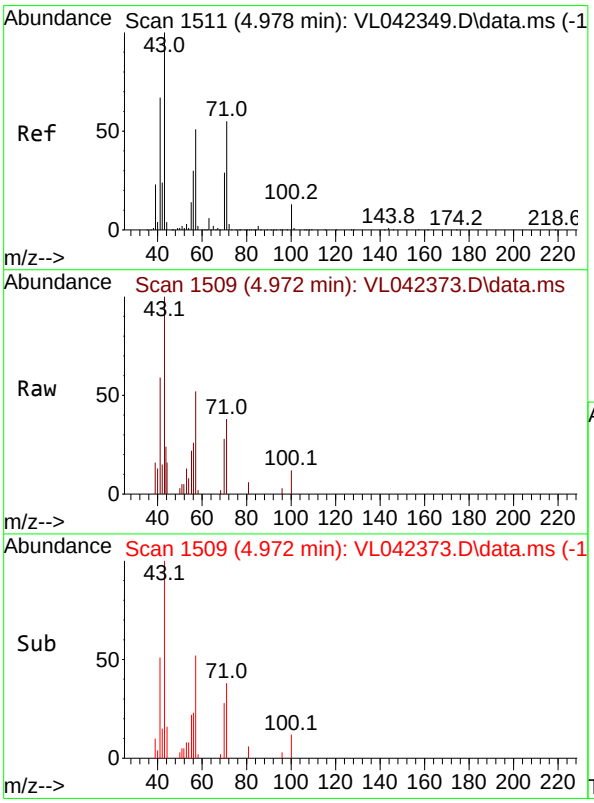
#9
Propene
Concen: 0.665 ppbv
RT: 1.557 min Scan# 4
Delta R.T. 0.075 min
Lab File: VL042373.D
Acq: 17 Apr 2025 23:57

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025DL

Tgt Ion: 41 Resp: 5479

Ion	Ratio	Lower	Upper
41	100		
42	63.9	56.2	84.4

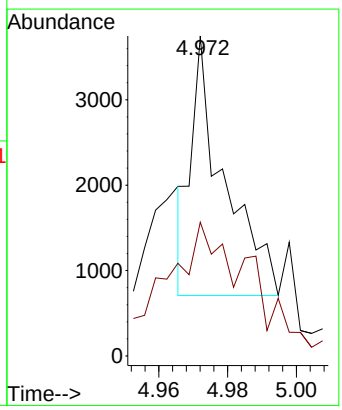


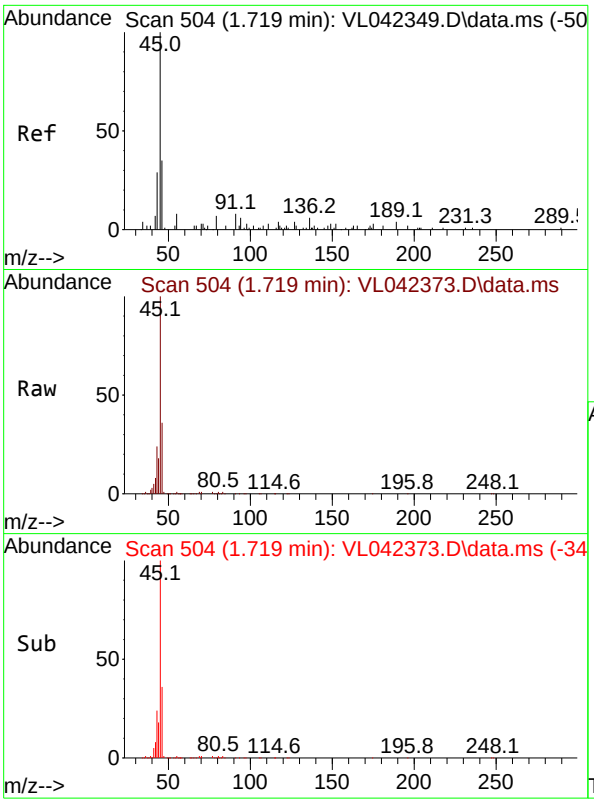


#10
Heptane
Concen: 0.087 ppbv
RT: 4.972 min Scan# 1509
Delta R.T. -0.006 min
Lab File: VL042373.D
Acq: 17 Apr 2025 23:57

Tgt Ion: 43 Resp: 2011

Ion	Ratio	Lower	Upper
43	100		
57	148.6	39.9	59.9#



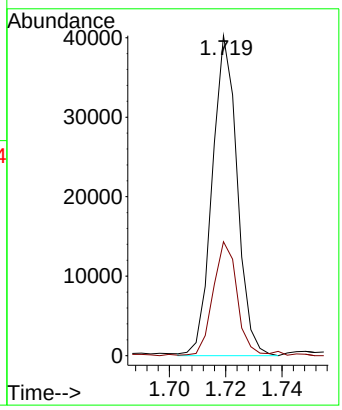


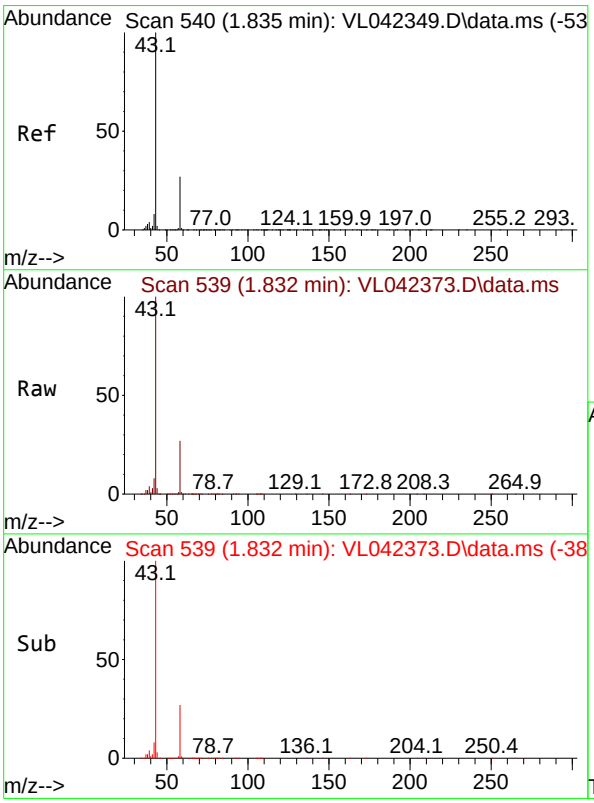
#13
Ethanol
Concen: 18.897 ppbv
RT: 1.719 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL042373.D
Acq: 17 Apr 2025 23:57

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025DL

Tgt Ion: 45 Resp: 24762

Ion	Ratio	Lower	Upper
45	100		
46	35.9	21.9	87.7

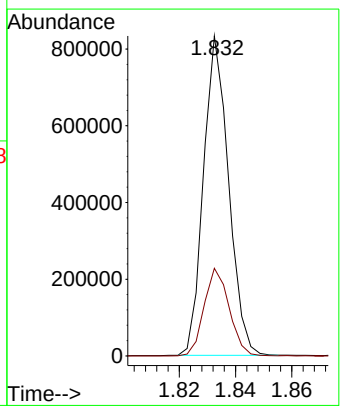


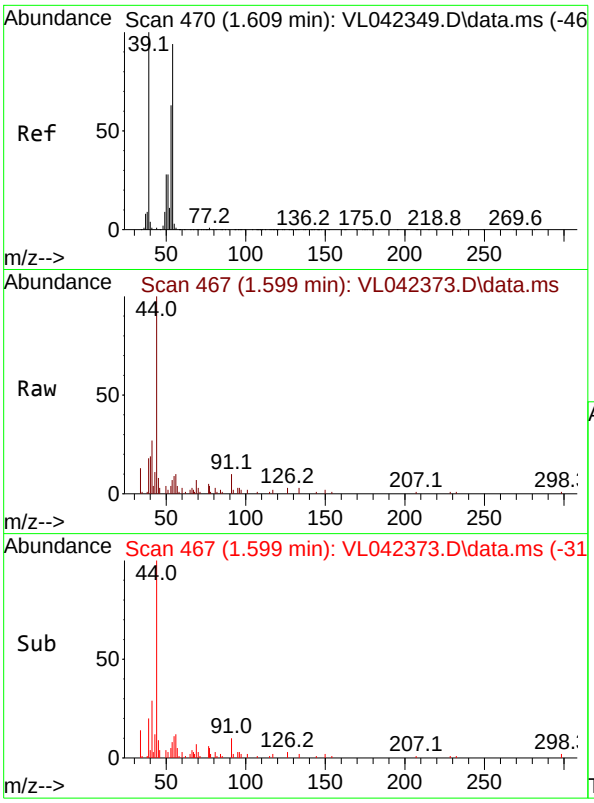


#15
Acetone
Concen: 29.269 ppbv
RT: 1.832 min Scan# 539
Delta R.T. -0.003 min
Lab File: VL042373.D
Acq: 17 Apr 2025 23:57

Tgt Ion: 43 Resp: 515571

Ion	Ratio	Lower	Upper
43	100		
58	27.6	22.4	33.6



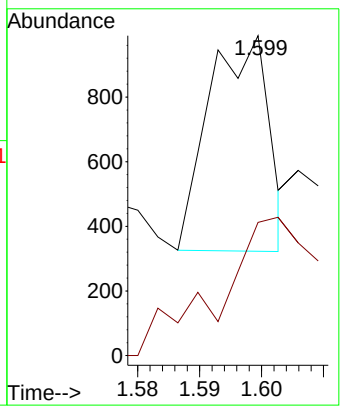


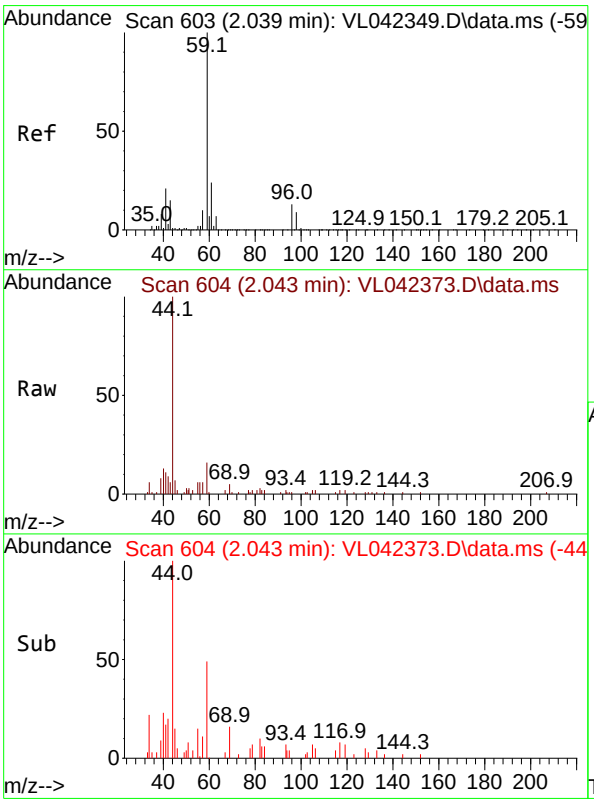
#16
1,3-Butadiene
Concen: 0.053 ppbv
RT: 1.599 min Scan# 4
Delta R.T. -0.009 min
Lab File: VL042373.D
Acq: 17 Apr 2025 23:57

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025DL

Tgt Ion: 39 Resp: 449

Ion	Ratio	Lower	Upper
39	100		
54	223.2	64.9	97.3#

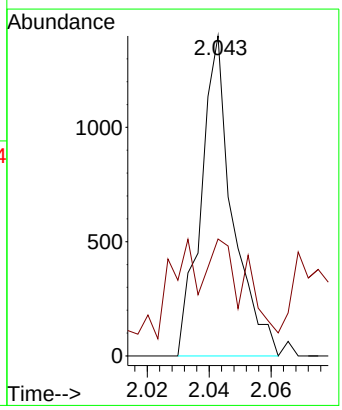


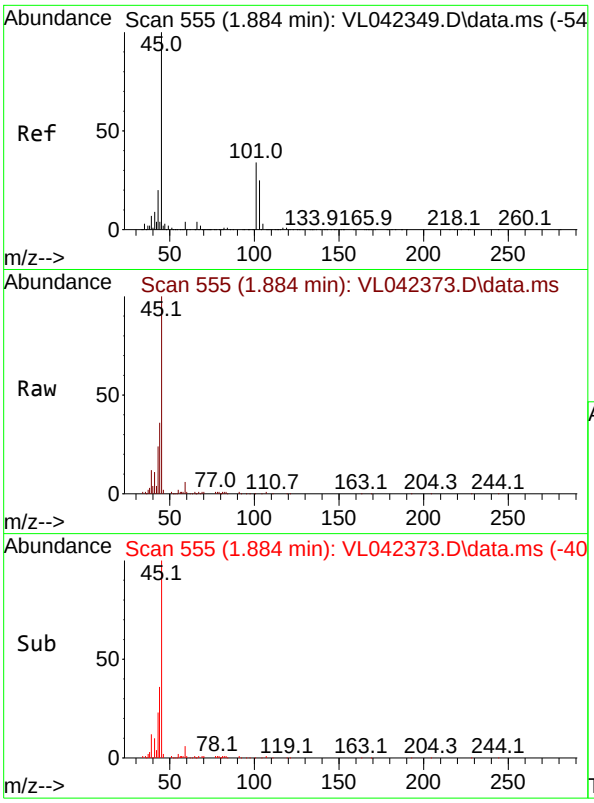


#17
tert-Butyl alcohol
Concen: 0.045 ppbv
RT: 2.043 min Scan# 604
Delta R.T. 0.004 min
Lab File: VL042373.D
Acq: 17 Apr 2025 23:57

Tgt Ion: 59 Resp: 992

Ion	Ratio	Lower	Upper
59	100		
57	138.0	8.7	13.1#



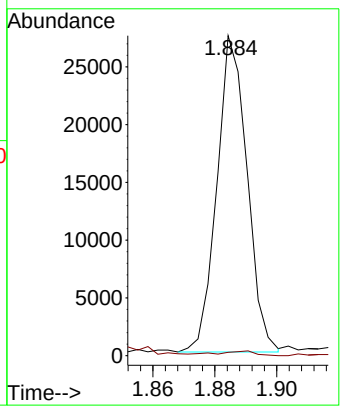


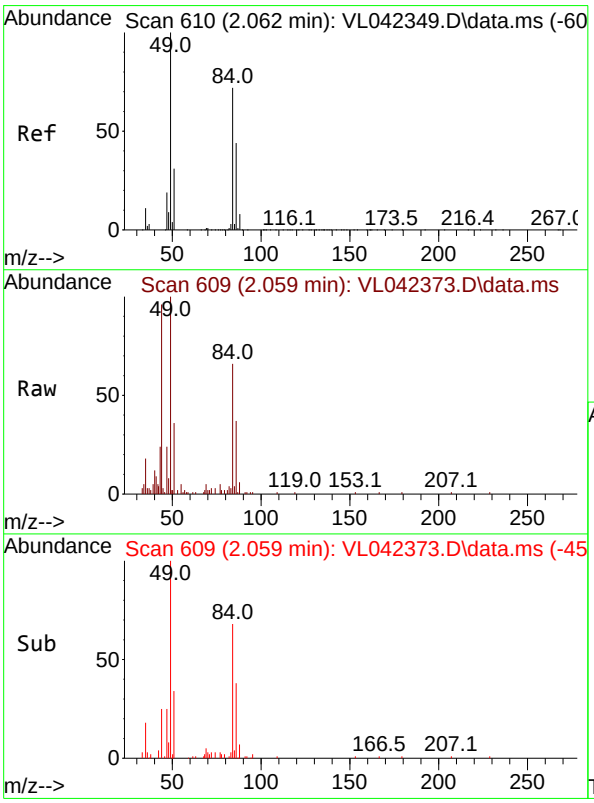
#19
Isopropyl Alcohol
Concen: 1.896 ppbv
RT: 1.884 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL042373.D
Acq: 17 Apr 2025 23:57

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025DL

Tgt Ion: 45 Resp: 18557

Ion	Ratio	Lower	Upper
45	100		
58	767.1	34.5	51.7#

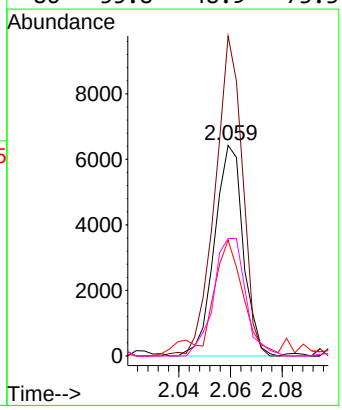


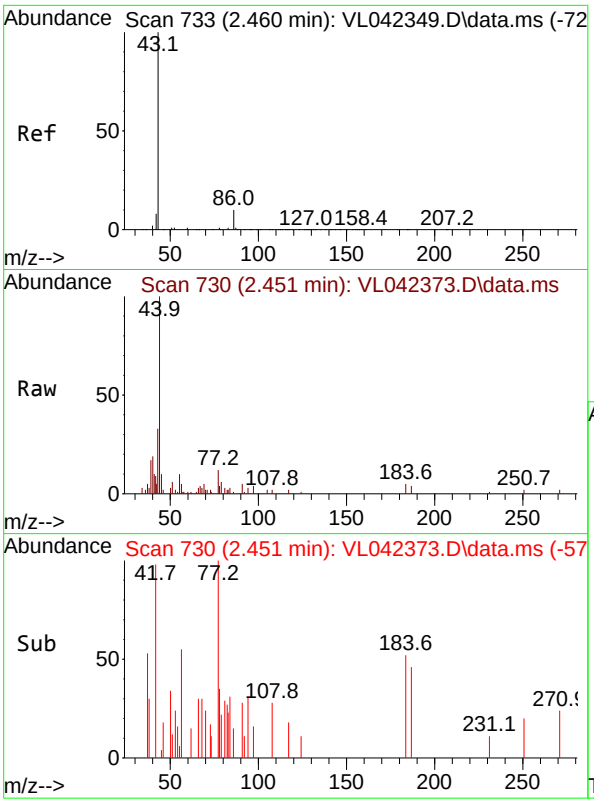


#20
Methylene Chloride
Concen: 0.721 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.003 min
Lab File: VL042373.D
Acq: 17 Apr 2025 23:57

Tgt Ion: 84 Resp: 4971

Ion	Ratio	Lower	Upper
84	100		
49	155.3	111.6	167.4
51	53.3	35.1	52.7#
86	55.8	48.9	73.3



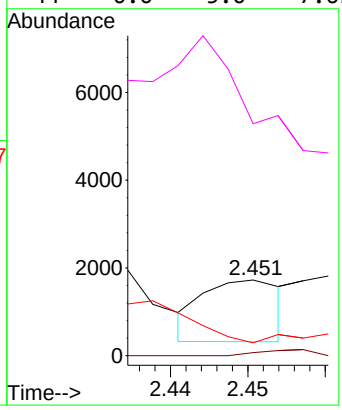


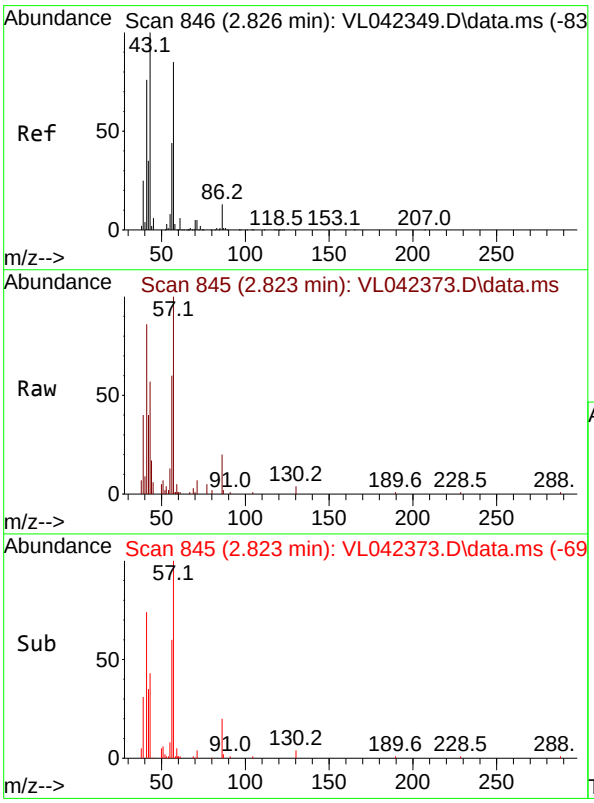
#23
Vinyl Acetate
Concen: 0.139 ppbv
RT: 2.451 min Scan# 7
Delta R.T. -0.009 min
Lab File: VL042373.D
Acq: 17 Apr 2025 23:57

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025DL

Tgt Ion: 43 Resp: 991

Ion	Ratio	Lower	Upper
43	100		
86	9.6	6.5	9.7
42	0.0	7.8	11.8#
44	0.0	5.0	7.6#

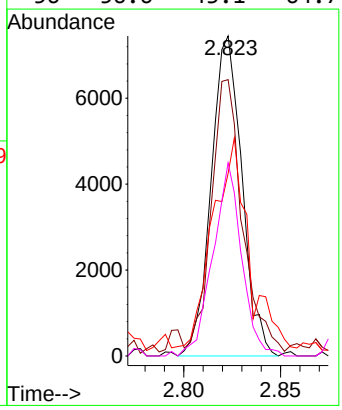


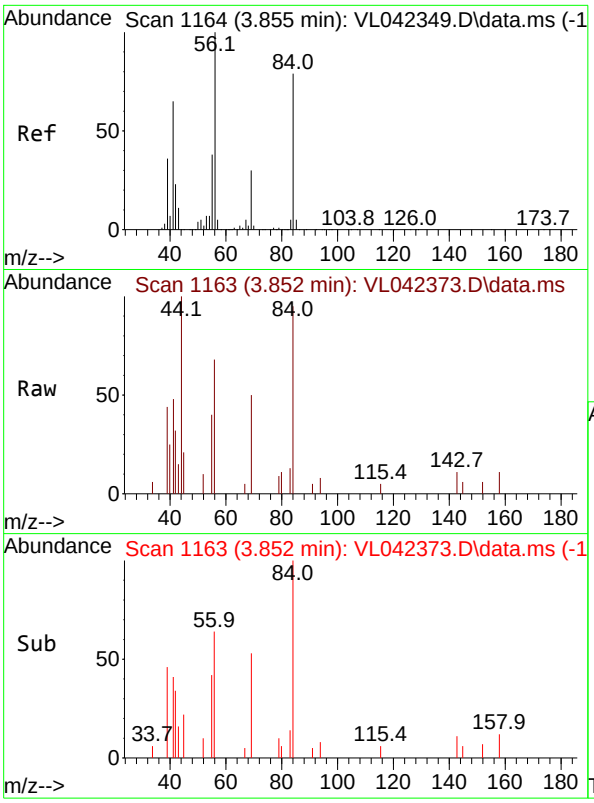


#26
Hexane
Concen: 0.469 ppbv
RT: 2.823 min Scan# 845
Delta R.T. -0.003 min
Lab File: VL042373.D
Acq: 17 Apr 2025 23:57

Tgt Ion: 57 Resp: 8236

Ion	Ratio	Lower	Upper
57	100		
41	86.1	77.9	116.9
43	86.9	208.4	312.6#
56	56.6	43.1	64.7



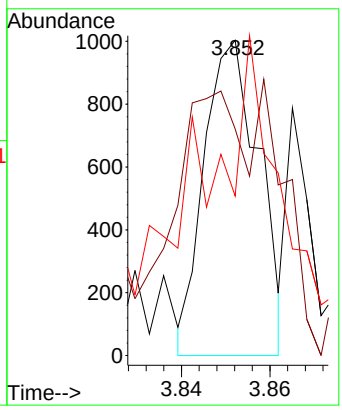


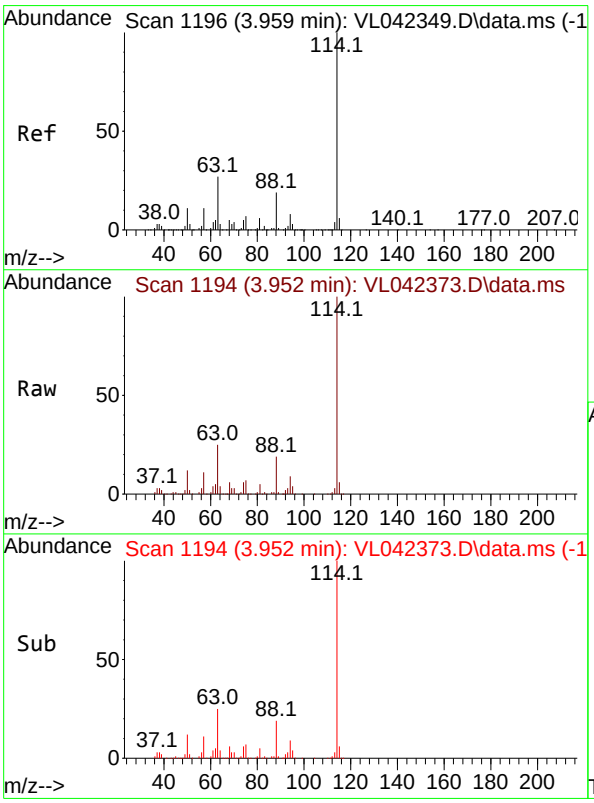
#30
Cyclohexane
Concen: 0.061 ppbv
RT: 3.852 min Scan# 11
Delta R.T. -0.003 min
Lab File: VL042373.D
Acq: 17 Apr 2025 23:57

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025DL

Tgt Ion: 84 Resp: 863

Ion	Ratio	Lower	Upper
84	100		
56	184.8	101.0	151.4#
41	198.4	67.4	101.0#

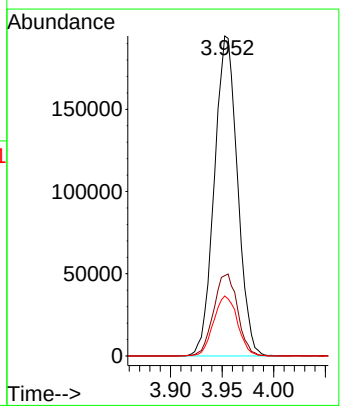


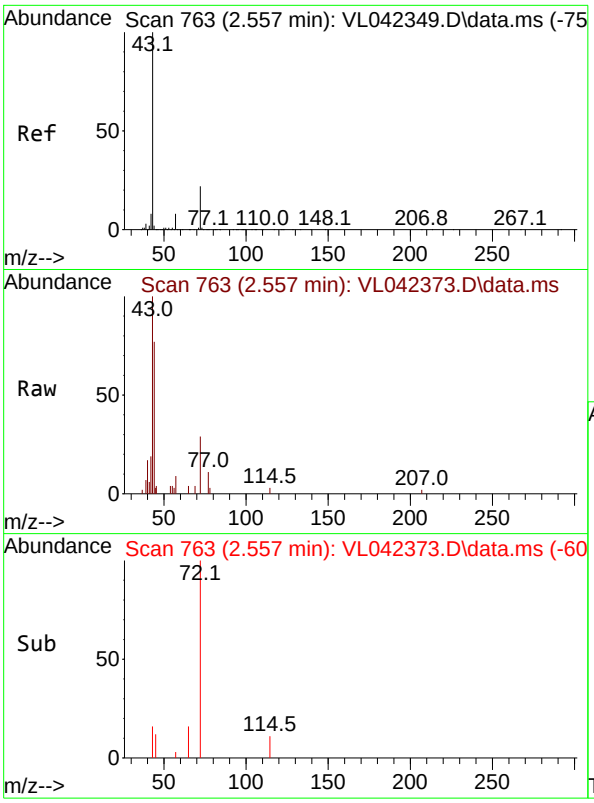


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.952 min Scan# 1194
Delta R.T. -0.006 min
Lab File: VL042373.D
Acq: 17 Apr 2025 23:57

Tgt Ion:114 Resp: 303479

Ion	Ratio	Lower	Upper
114	100		
63	26.5	21.8	32.6
88	19.4	15.5	23.3



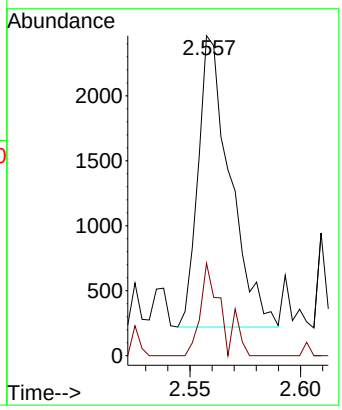


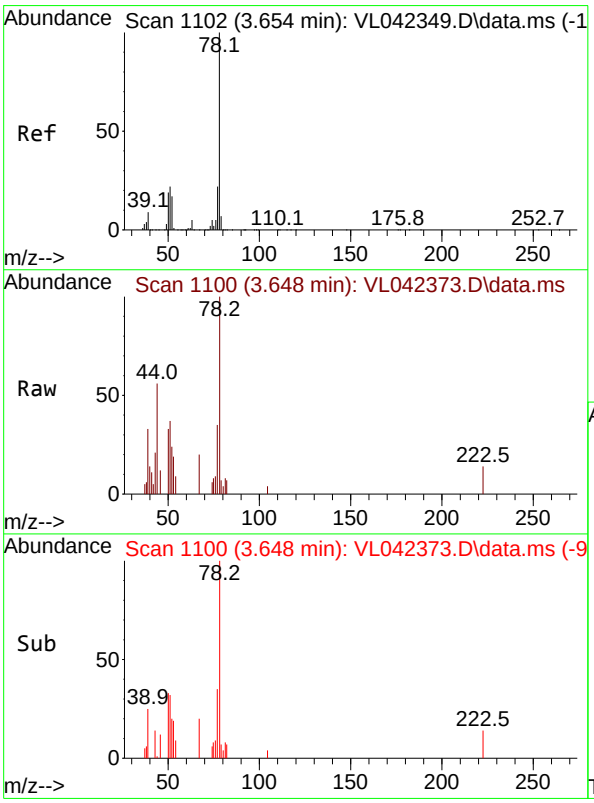
#34
2-Butanone
Concen: 0.094 ppbv
RT: 2.557 min Scan# 7
Delta R.T. 0.000 min
Lab File: VL042373.D
Acq: 17 Apr 2025 23:57

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025DL

Tgt Ion: 43 Resp: 2252

Ion	Ratio	Lower	Upper
43	100		
72	21.0	18.2	27.2

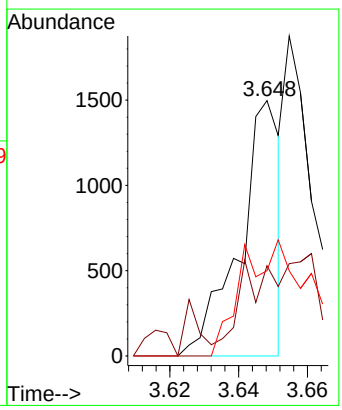


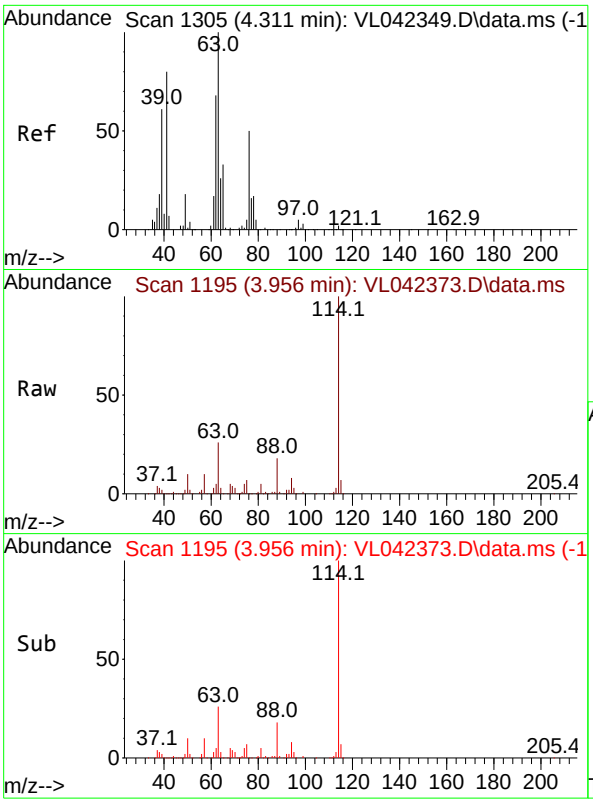


#36
Benzene
Concen: 0.037 ppbv
RT: 3.648 min Scan# 1100
Delta R.T. -0.006 min
Lab File: VL042373.D
Acq: 17 Apr 2025 23:57

Tgt Ion: 78 Resp: 1213

Ion	Ratio	Lower	Upper
78	100		
77	35.3	17.4	26.0#
50	33.4	15.5	23.3#



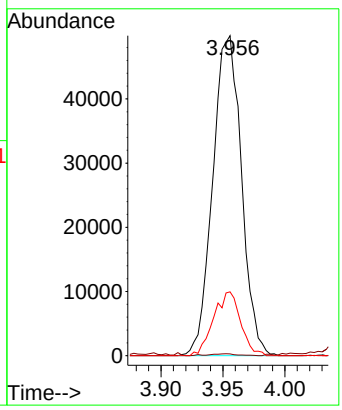


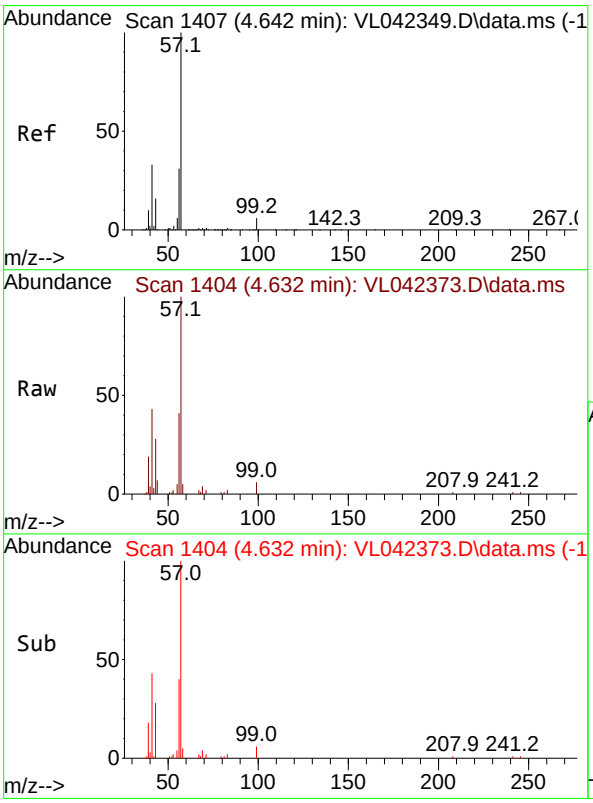
#39
1,2-Dichloropropane
Concen: 6.604 ppbv
RT: 3.956 min Scan# 11
Delta R.T. -0.356 min
Lab File: VL042373.D
Acq: 17 Apr 2025 23:57

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025DL

Tgt Ion: 63 Resp: 80554

Ion	Ratio	Lower	Upper
63	100		
41	0.3	64.2	96.2#
62	19.9	54.3	81.5#

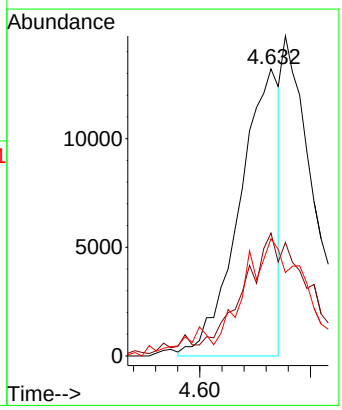


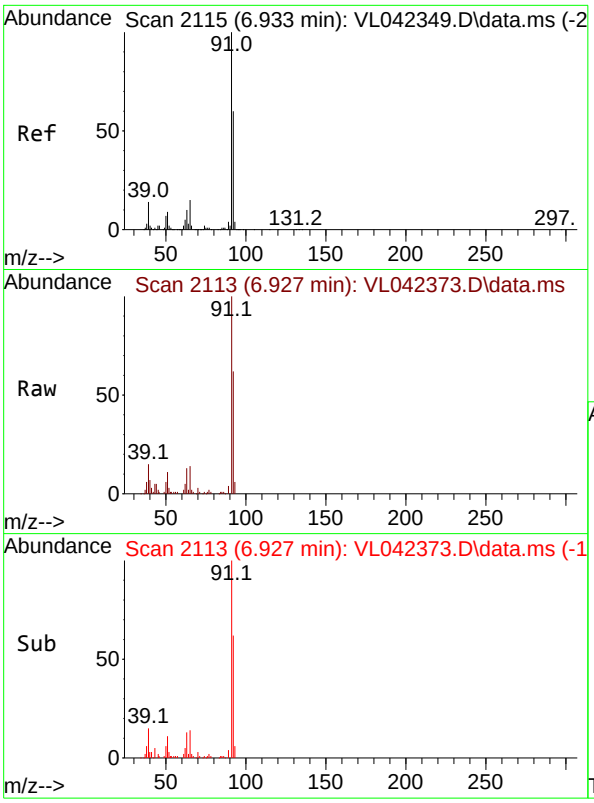


#44
2,2,4-Trimethylpentane
Concen: 0.293 ppbv
RT: 4.632 min Scan# 1404
Delta R.T. -0.009 min
Lab File: VL042373.D
Acq: 17 Apr 2025 23:57

Tgt Ion: 57 Resp: 16572

Ion	Ratio	Lower	Upper
57	100		
41	74.0	27.2	40.8#
56	71.3	25.7	38.5#



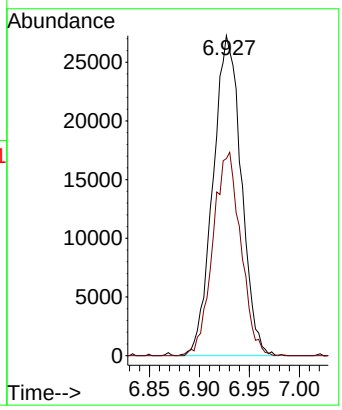


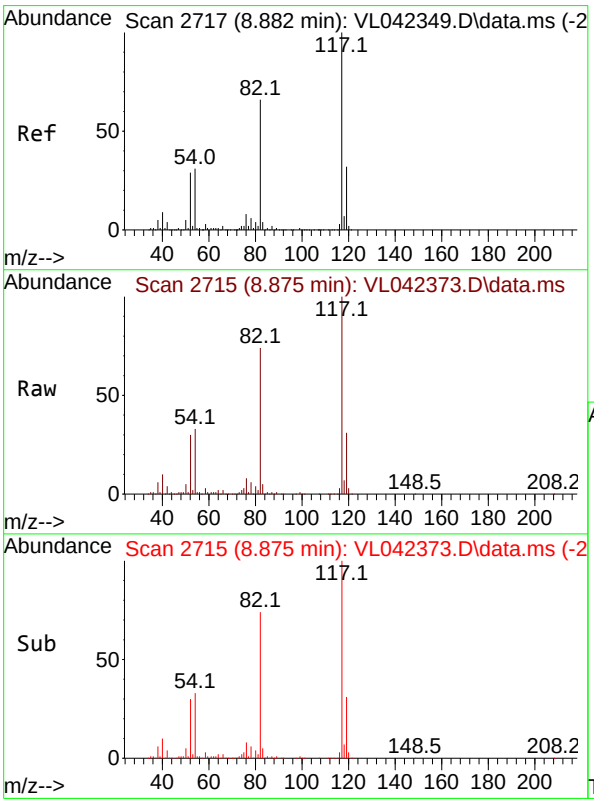
#53
Toluene
Concen: 1.365 ppbv
RT: 6.927 min Scan# 21
Delta R.T. -0.006 min
Lab File: VL042373.D
Acq: 17 Apr 2025 23:57

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025DL

Tgt Ion: 91 Resp: 53637

Ion	Ratio	Lower	Upper
91	100		
92	62.9	48.2	72.4

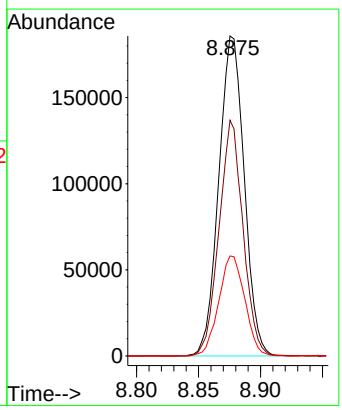


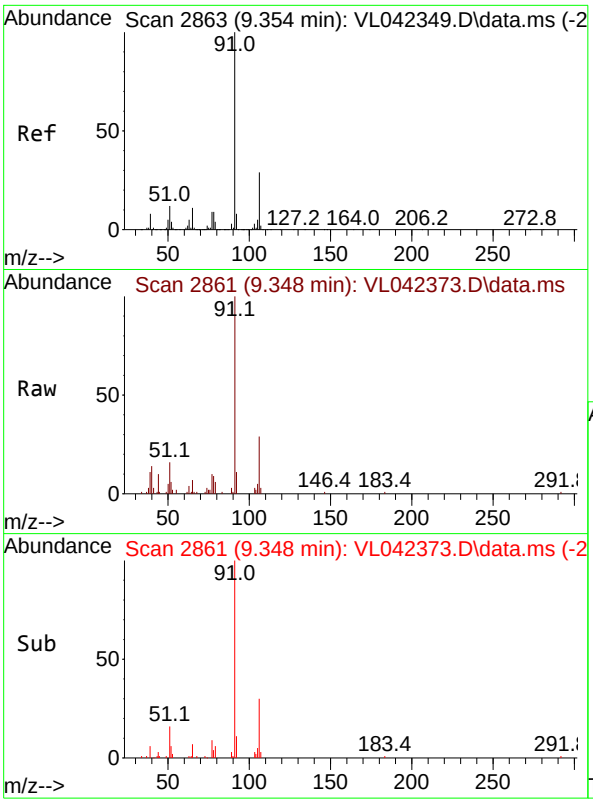


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 2715
Delta R.T. -0.006 min
Lab File: VL042373.D
Acq: 17 Apr 2025 23:57

Tgt Ion:117 Resp: 266154

Ion	Ratio	Lower	Upper
117	100		
82	69.4	57.8	86.6
119	32.1	25.2	37.8



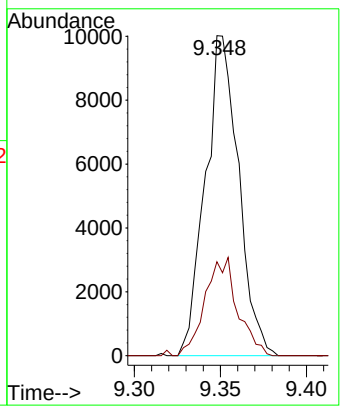


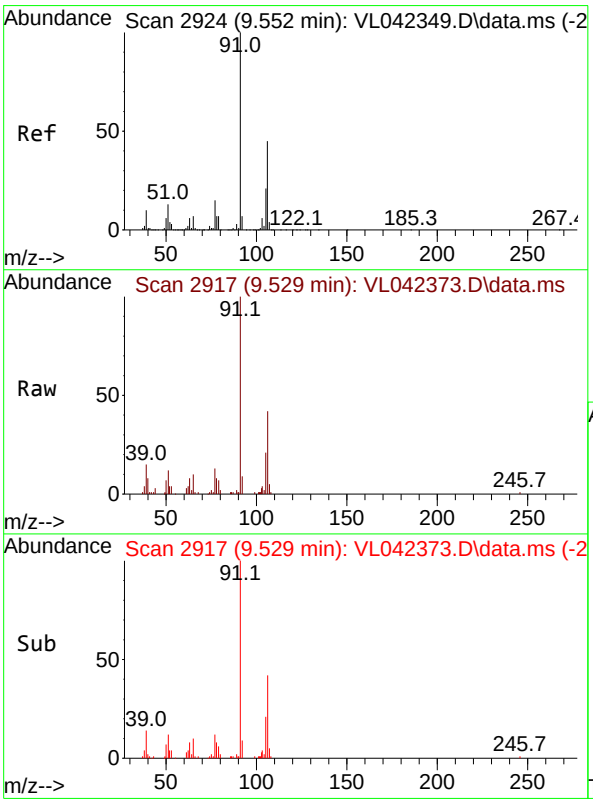
#58
Ethyl Benzene
Concen: 0.256 ppbv
RT: 9.348 min Scan# 2
Delta R.T. -0.006 min
Lab File: VL042373.D
Acq: 17 Apr 2025 23:57

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025DL

Tgt Ion: 91 Resp: 13474

Ion	Ratio	Lower	Upper
91	100		
106	29.4	23.0	34.4

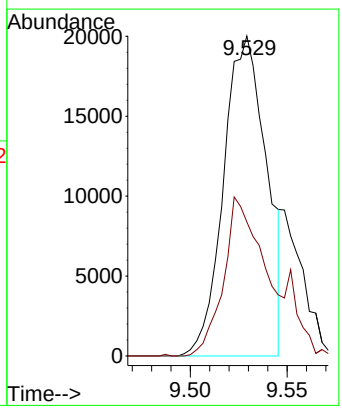


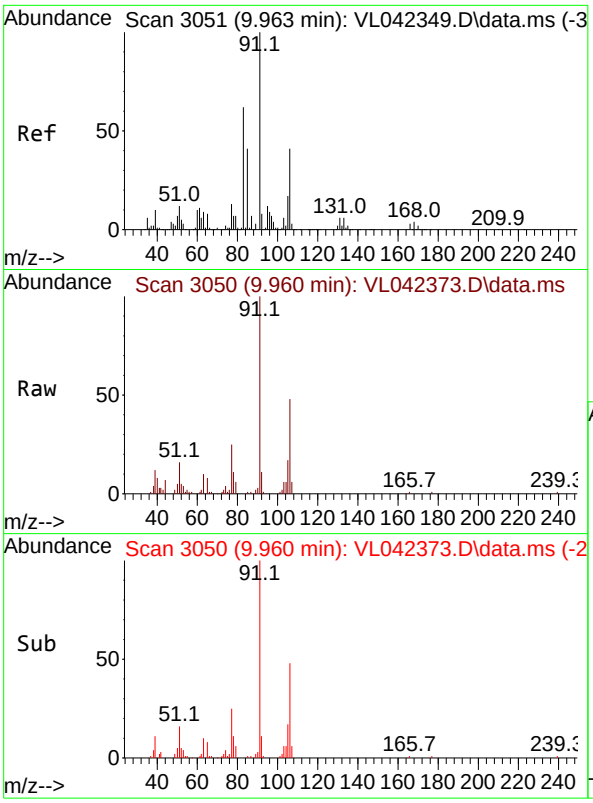


#59
m/p-Xylene
Concen: 0.724 ppbv
RT: 9.529 min Scan# 2917
Delta R.T. -0.022 min
Lab File: VL042373.D
Acq: 17 Apr 2025 23:57

Tgt Ion: 91 Resp: 30753

Ion	Ratio	Lower	Upper
91	100		
106	55.2	35.4	53.2#



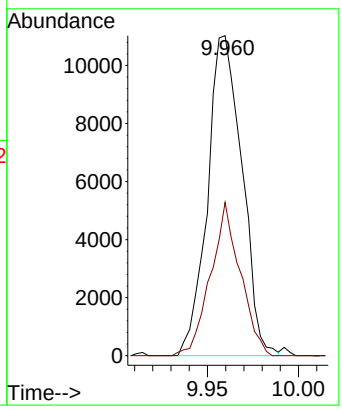


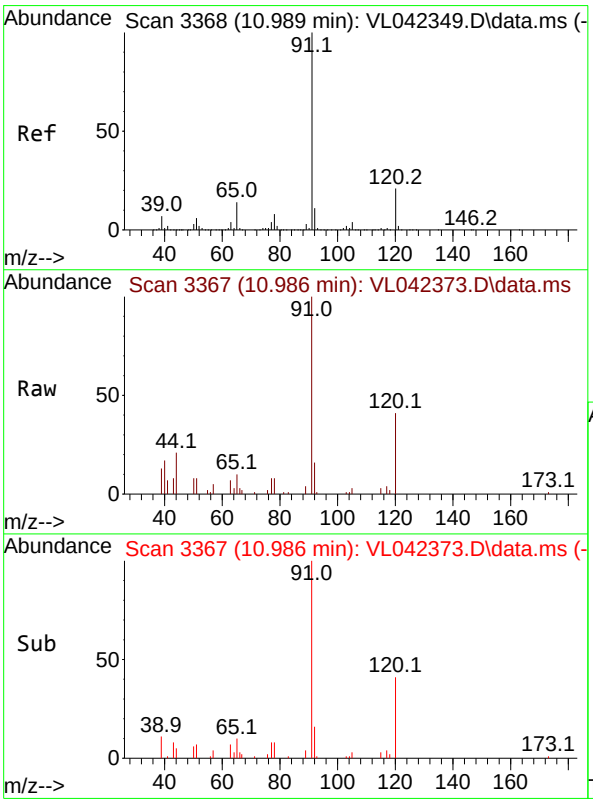
#60
o-Xylene
Concen: 0.339 ppbv
RT: 9.960 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042373.D
Acq: 17 Apr 2025 23:57

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025DL

Tgt Ion: 91 Resp: 14506

Ion	Ratio	Lower	Upper
91	100		
106	41.3	21.1	63.4

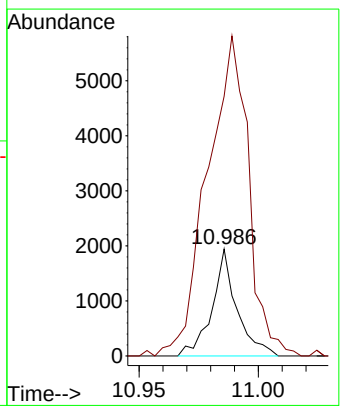


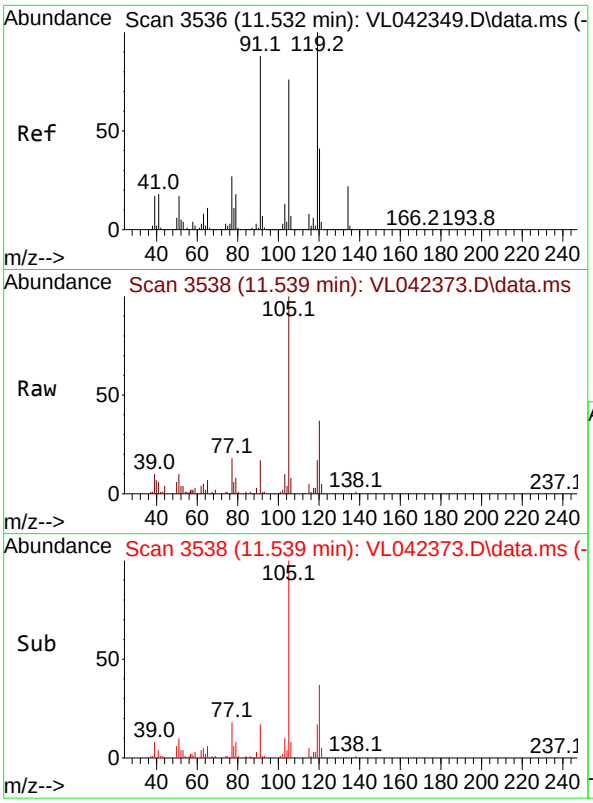


#64
n-propylbenzene
Concen: 0.089 ppbv
RT: 10.986 min Scan# 3367
Delta R.T. -0.003 min
Lab File: VL042373.D
Acq: 17 Apr 2025 23:57

Tgt Ion:120 Resp: 1406

Ion	Ratio	Lower	Upper
120	100		
91	501.6	392.4	588.6



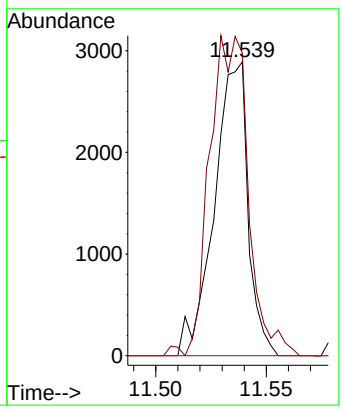


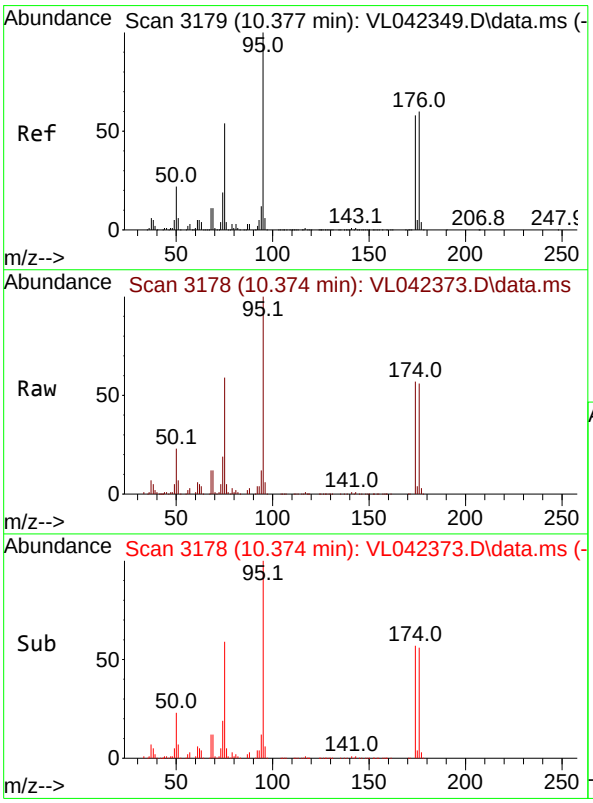
#65
tert-Butylbenzene
Concen: 0.053 ppbv
RT: 11.539 min Scan# 3
Delta R.T. 0.007 min
Lab File: VL042373.D
Acq: 17 Apr 2025 23:57

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025DL

Tgt Ion:119 Resp: 3065

Ion	Ratio	Lower	Upper
119	100		
91	125.8	74.6	111.8#
134	1.0	18.8	28.2#

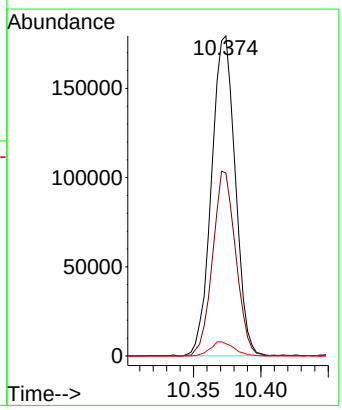


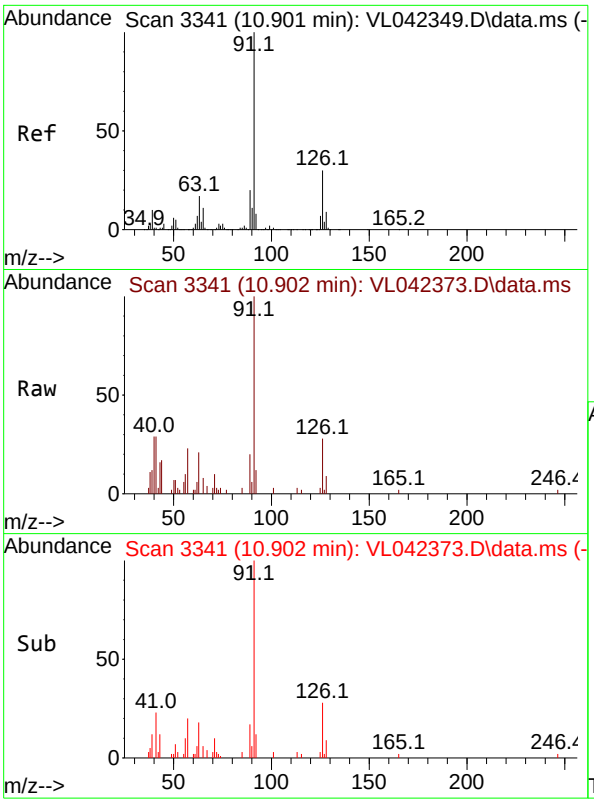


#68
1-Bromo-4-Fluorobenzene
Concen: 10.062 ppbv
RT: 10.374 min Scan# 3178
Delta R.T. -0.003 min
Lab File: VL042373.D
Acq: 17 Apr 2025 23:57

Tgt Ion: 95 Resp: 220060

Ion	Ratio	Lower	Upper
95	100		
174	56.3	48.5	72.7
175	4.4	3.7	5.5



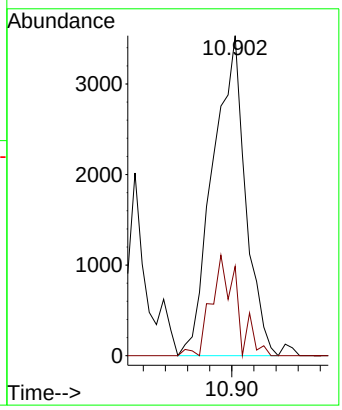


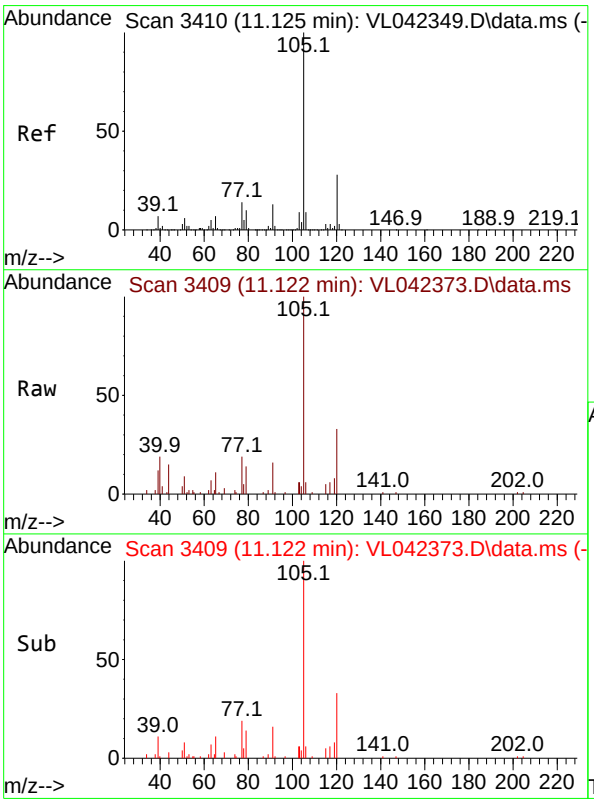
#71
2-Chlorotoluene
Concen: 0.073 ppbv
RT: 10.902 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042373.D
Acq: 17 Apr 2025 23:57

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025DL

Tgt Ion: 91 Resp: 3618

Ion	Ratio	Lower	Upper
91	100		
126	24.8	11.4	45.4

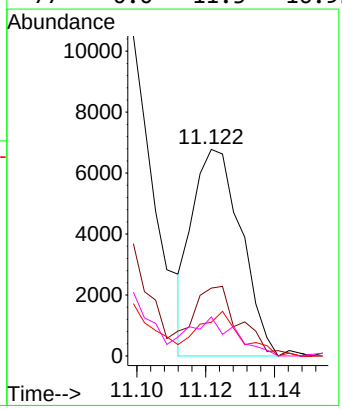


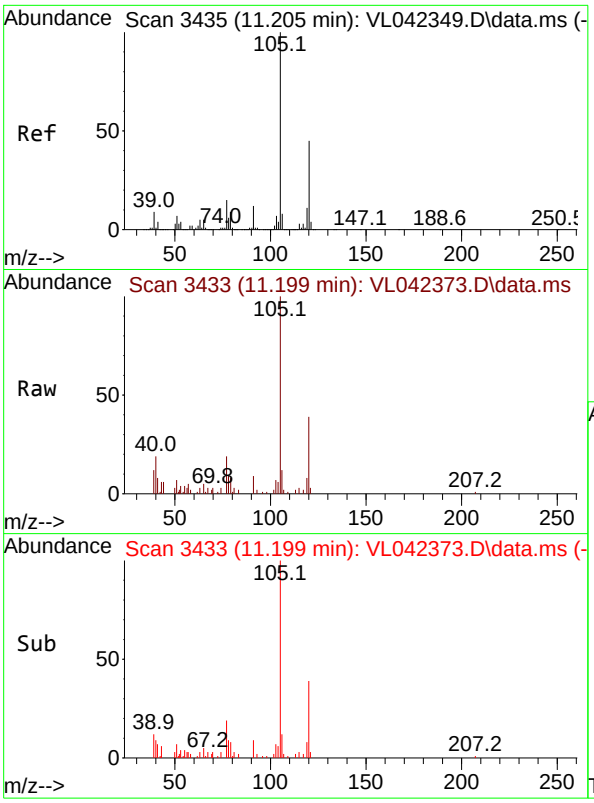


#72
4-Ethyltoluene
Concen: 0.128 ppbv
RT: 11.122 min Scan# 3409
Delta R.T. -0.003 min
Lab File: VL042373.D
Acq: 17 Apr 2025 23:57

Tgt Ion:105 Resp: 6684

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#



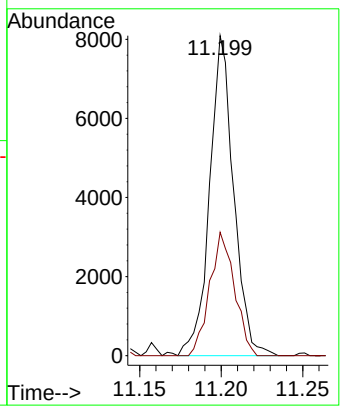


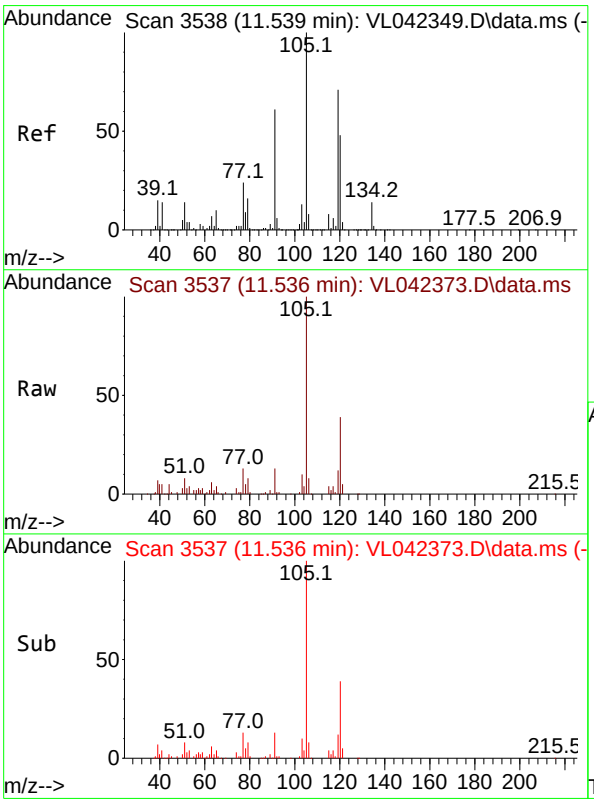
#73
1,3,5-Trimethylbenzene
Concen: 0.180 ppbv
RT: 11.199 min Scan# 3
Delta R.T. -0.006 min
Lab File: VL042373.D
Acq: 17 Apr 2025 23:57

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025DL

Tgt Ion:105 Resp: 8296

Ion	Ratio	Lower	Upper
105	100		
120	41.5	35.6	53.4

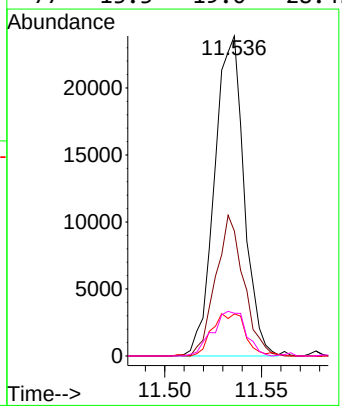




#74
1,2,4-Trimethylbenzene
Concen: 0.468 ppbv
RT: 11.536 min Scan# 3537
Delta R.T. -0.003 min
Lab File: VL042373.D
Acq: 17 Apr 2025 23:57

Tgt Ion:105 Resp: 25240

Ion	Ratio	Lower	Upper
105	100		
120	38.8	38.1	57.1
91	12.8	48.8	73.2#
77	13.3	19.0	28.4#



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042376.D
Acq On : 18 Apr 2025 01:30
Operator : SY/MD
Sample : Q1726-01DL 20X
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025DL

Quant Time: Apr 18 04:39:28 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

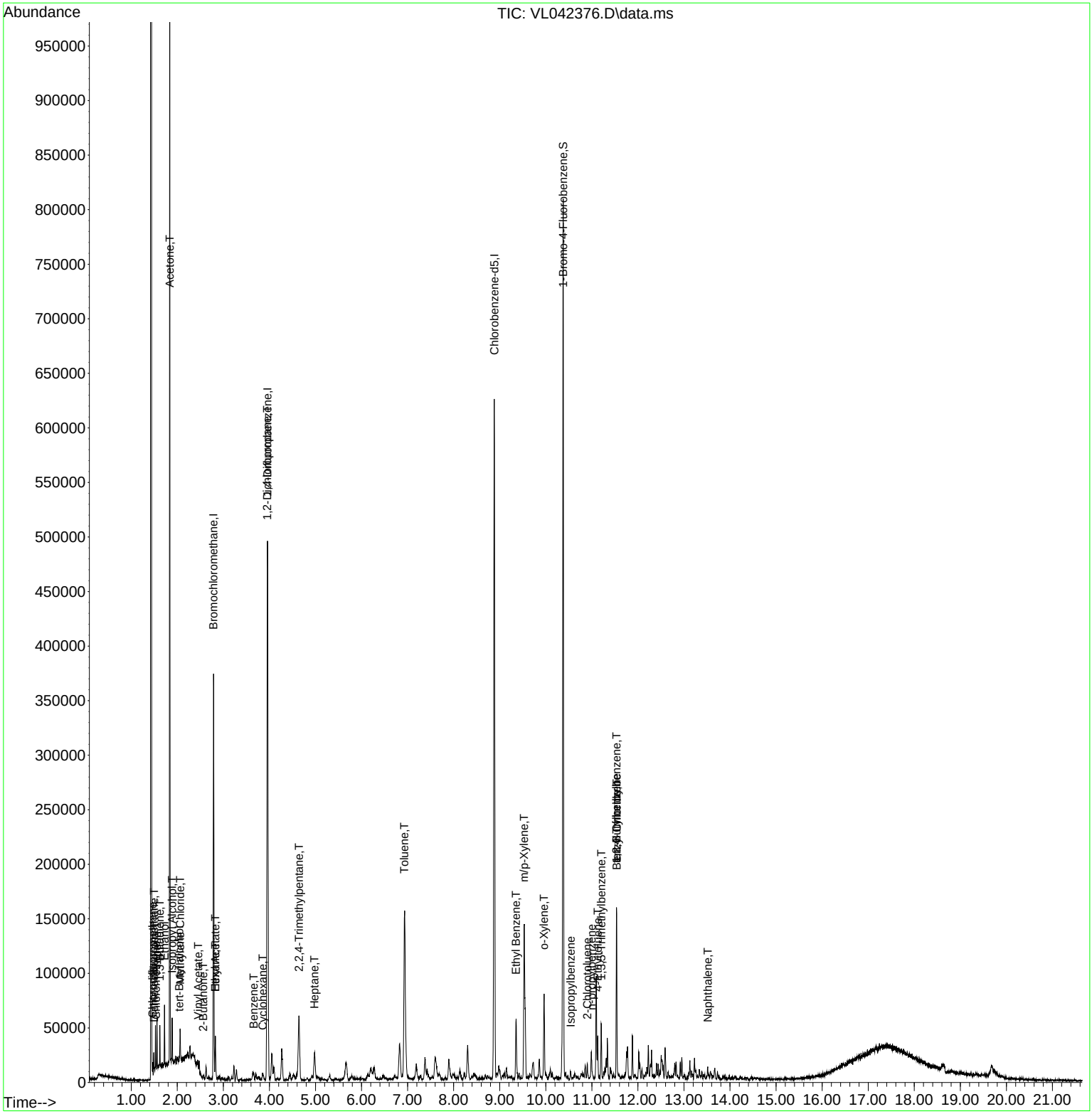
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.787	49	100356	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.959	114	288404	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.882	117	249449	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.377	95	207163	10.106	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 101.100%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.499	85	930	0.052	ppbv		100
3) Chlorodifluoromethane	1.466	51	3123	0.185	ppbv	#	67
4) Chloromethane	1.534	50	634	0.090	ppbv	#	70
9) Propene	1.560	41	3637	0.473	ppbv		90
10) Heptane	4.978	43	10406	0.482	ppbv		91
13) Ethanol	1.722	45	20340	16.643	ppbv		80
15) Acetone	1.835	43	516180	31.420	ppbv		98
16) 1,3-Butadiene	1.622	39	1757	0.224	ppbv	#	19
17) tert-Butyl alcohol	2.046	59	728	0.036	ppbv	#	1
19) Isopropyl Alcohol	1.887	45	16398	1.797	ppbv	#	1
20) Methylene Chloride	2.062	84	4276	0.665	ppbv	#	77
23) Vinyl Acetate	2.454	43	1065	0.160	ppbv	#	1
25) Ethyl Acetate	2.826	43	6629	0.164	ppbv	#	83
26) Hexane	2.826	57	8480	0.517	ppbv	#	34
30) Cyclohexane	3.855	84	856	0.065	ppbv	#	1
34) 2-Butanone	2.564	43	1784	0.078	ppbv		93
36) Benzene	3.658	78	3080	0.099	ppbv	#	62
39) 1,2-Dichloropropane	3.955	63	76957	6.639	ppbv	#	21
44) 2,2,4-Trimethylpentane	4.641	57	54714	1.018	ppbv		94
53) Toluene	6.930	91	107299	2.874	ppbv		98
58) Ethyl Benzene	9.354	91	29882	0.605	ppbv		94
59) m/p-Xylene	9.529	91	88263	2.217	ppbv		99
60) o-Xylene	9.963	91	34430	0.859	ppbv		97
62) Isopropylbenzene	10.542	105	3486	0.059	ppbv		94
64) n-propylbenzene	10.992	120	2336	0.158	ppbv		75
65) tert-Butylbenzene	11.536	119	5490	0.101	ppbv	#	61
66) Benzyl Chloride	11.539	91	6956	1.170	ppbv	#	70
71) 2-Chlorotoluene	10.901	91	2632	0.057	ppbv		94
72) 4-Ethyltoluene	11.128	105	15927	0.325	ppbv	#	56
73) 1,3,5-Trimethylbenzene	11.205	105	16220	0.375	ppbv		95
74) 1,2,4-Trimethylbenzene	11.536	105	57208	1.132	ppbv	#	60
79) Naphthalene	13.516	128	4610	0.076	ppbv	#	94

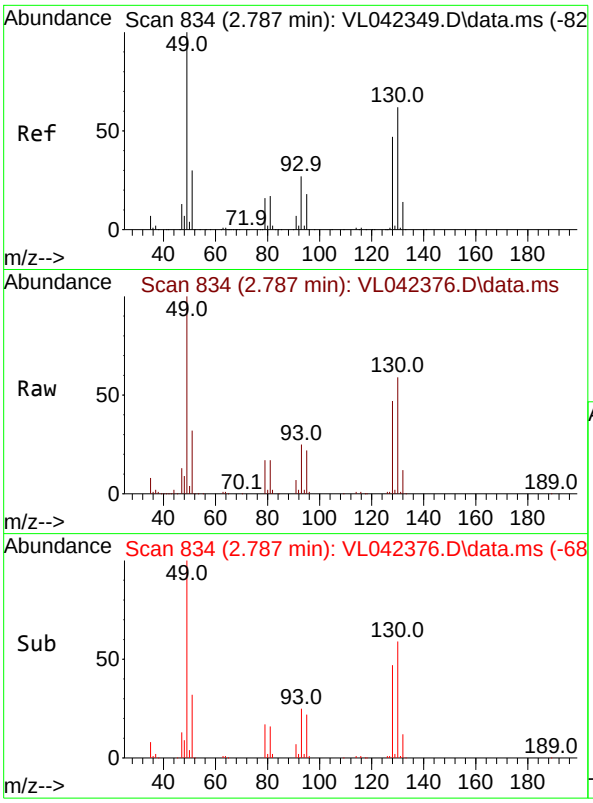
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042376.D
Acq On : 18 Apr 2025 01:30
Operator : SY/MD
Sample : Q1726-01DL 20X
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025DL

Quant Time: Apr 18 04:39:28 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



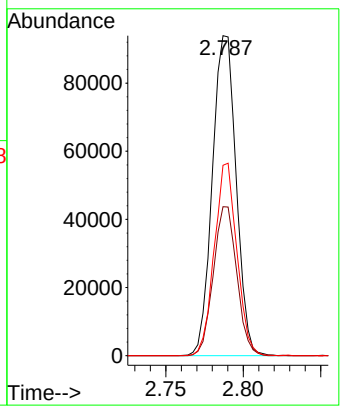


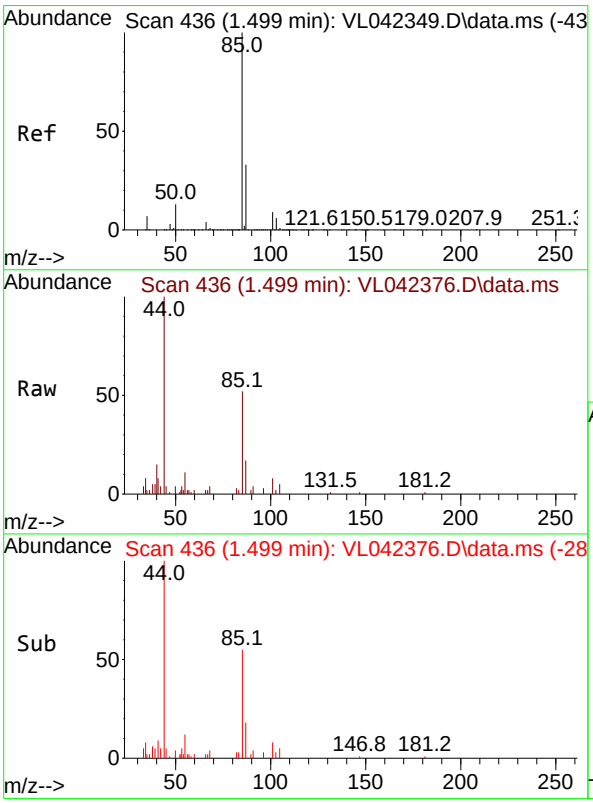
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL042376.D
Acq: 18 Apr 2025 01:30

Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025DL

Tgt Ion: 49 Resp: 100356

Ion	Ratio	Lower	Upper
49	100		
128	45.8	22.8	68.4
130	57.1	29.3	88.0

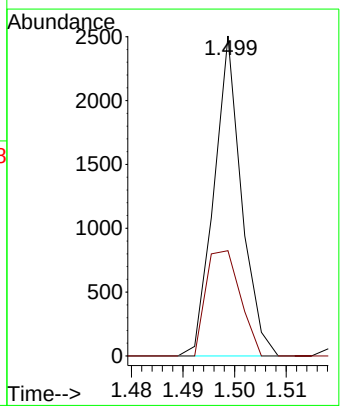


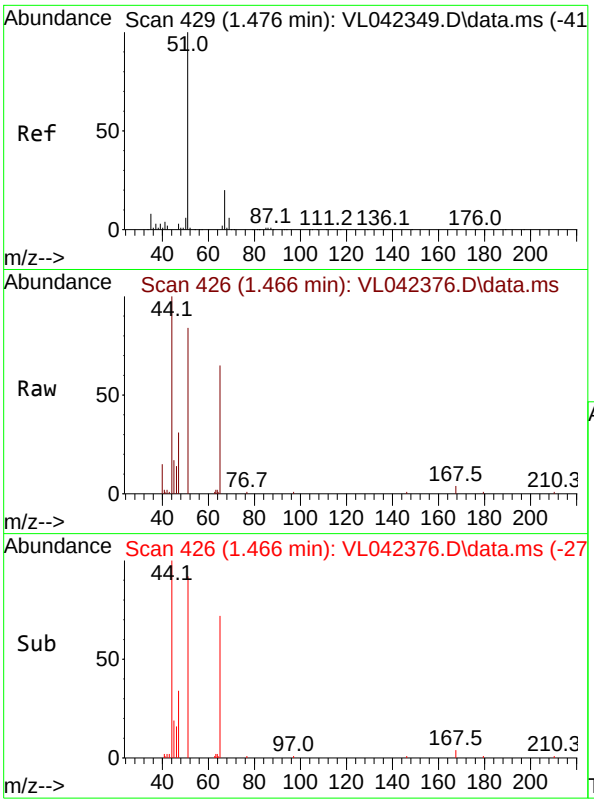


#2
Dichlorodifluoromethane
Concen: 0.052 ppbv
RT: 1.499 min Scan# 436
Delta R.T. -0.000 min
Lab File: VL042376.D
Acq: 18 Apr 2025 01:30

Tgt Ion: 85 Resp: 930

Ion	Ratio	Lower	Upper
85	100		
87	32.9	26.6	39.8



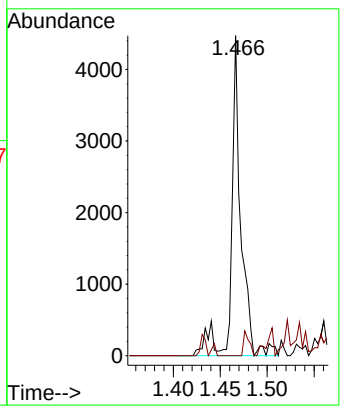


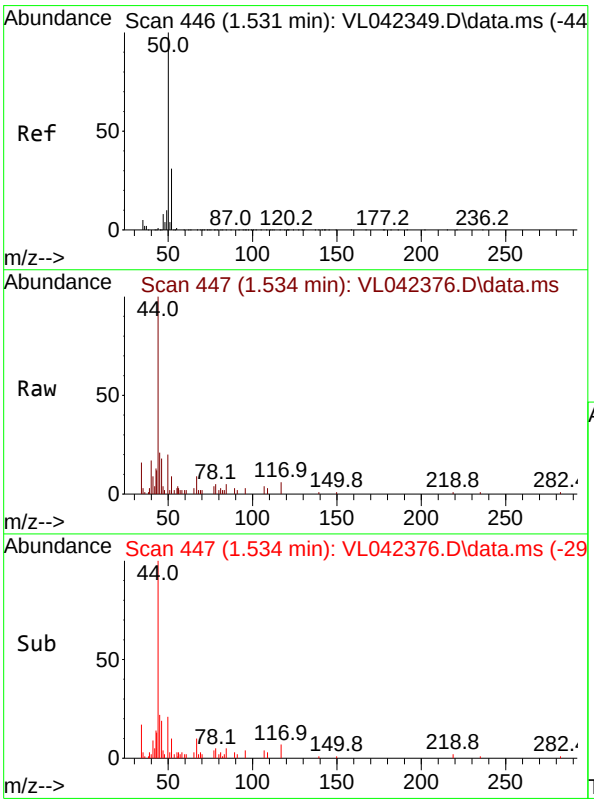
#3
Chlorodifluoromethane
Concen: 0.185 ppbv
RT: 1.466 min Scan# 4
Delta R.T. -0.010 min
Lab File: VL042376.D
Acq: 18 Apr 2025 01:30

Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025DL

Tgt Ion: 51 Resp: 3123

Ion	Ratio	Lower	Upper
51	100		
67	5.1	16.2	24.4#

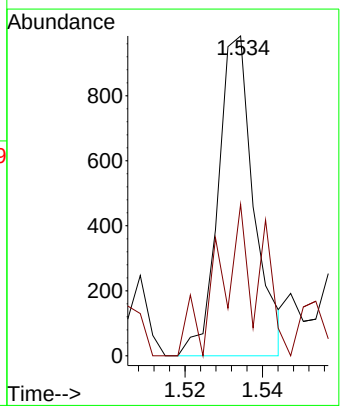


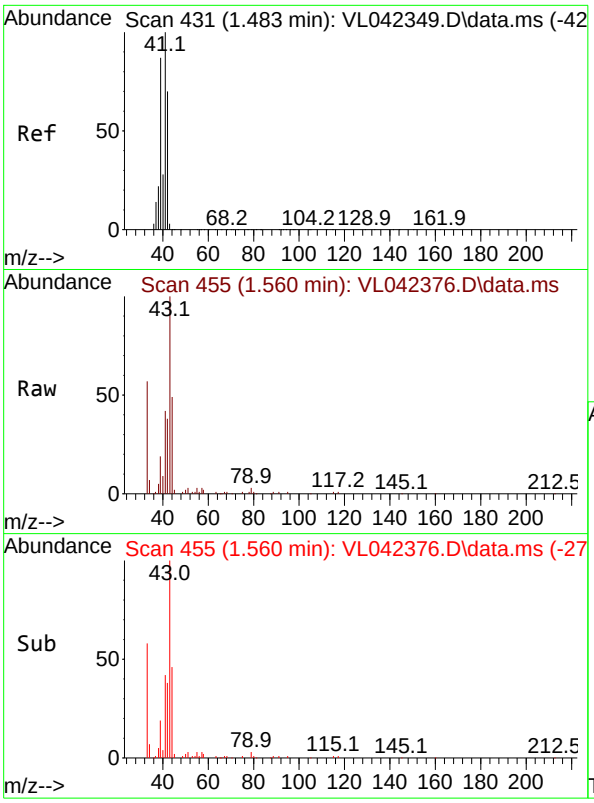


#4
Chloromethane
Concen: 0.090 ppbv
RT: 1.534 min Scan# 447
Delta R.T. 0.003 min
Lab File: VL042376.D
Acq: 18 Apr 2025 01:30

Tgt Ion: 50 Resp: 634

Ion	Ratio	Lower	Upper
50	100		
52	47.4	24.7	37.1#



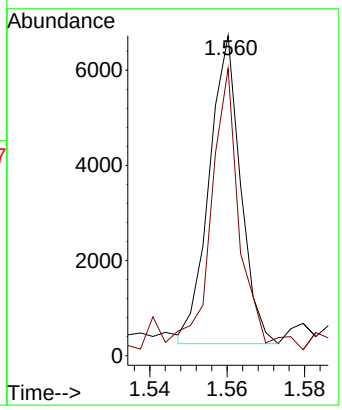


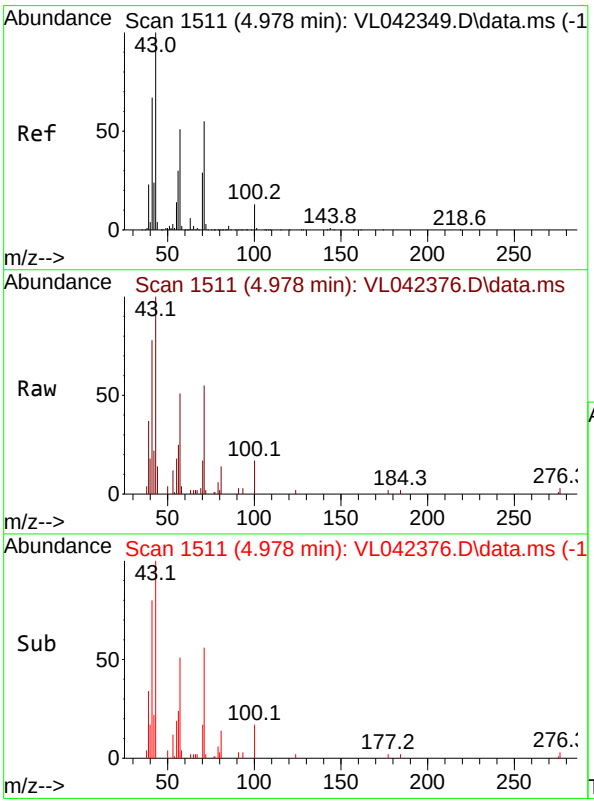
#9
Propene
Concen: 0.473 ppbv
RT: 1.560 min Scan# 4
Delta R.T. 0.078 min
Lab File: VL042376.D
Acq: 18 Apr 2025 01:30

Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025DL

Tgt Ion: 41 Resp: 3637

Ion	Ratio	Lower	Upper
41	100		
42	78.5	56.2	84.4

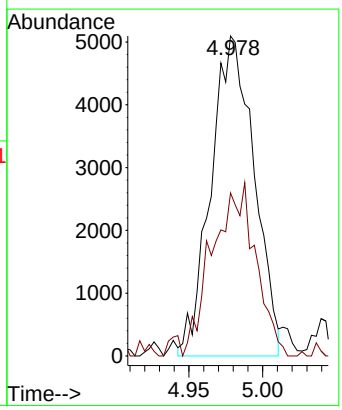


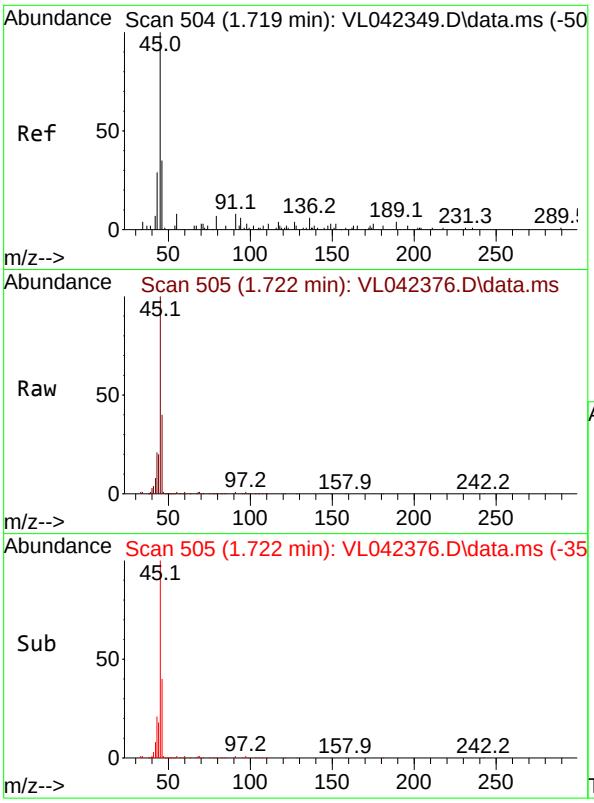


#10
Heptane
Concen: 0.482 ppbv
RT: 4.978 min Scan# 1511
Delta R.T. -0.000 min
Lab File: VL042376.D
Acq: 18 Apr 2025 01:30

Tgt Ion: 43 Resp: 10406

Ion	Ratio	Lower	Upper
43	100		
57	56.4	39.9	59.9



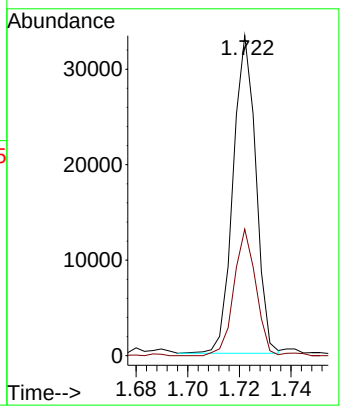


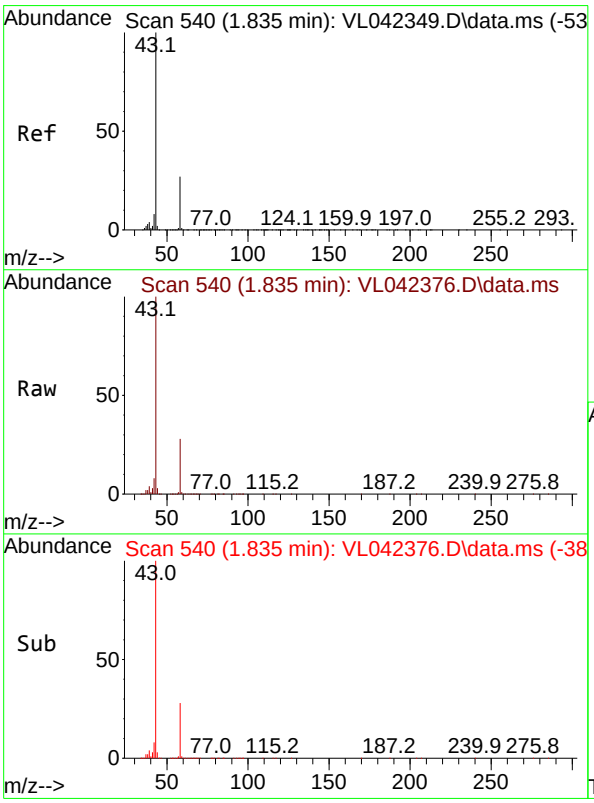
#13
Ethanol
Concen: 16.643 ppbv
RT: 1.722 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042376.D
Acq: 18 Apr 2025 01:30

Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025DL

Tgt Ion: 45 Resp: 20340

Ion	Ratio	Lower	Upper
45	100		
46	40.5	21.9	87.7

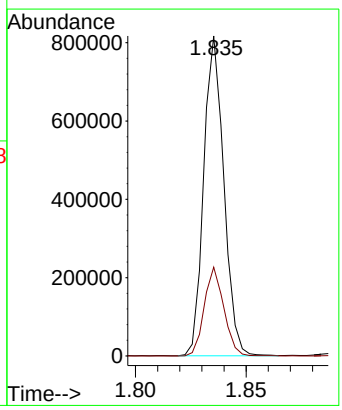


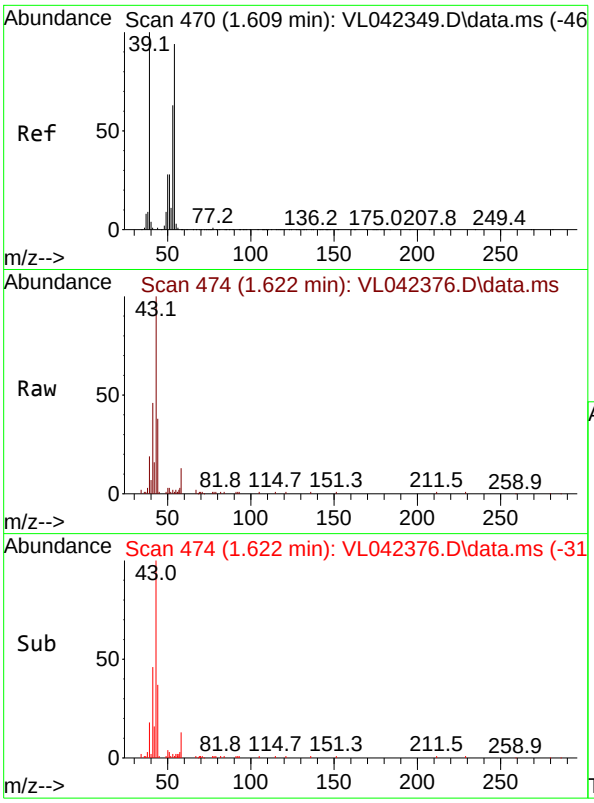


#15
Acetone
Concen: 31.420 ppbv
RT: 1.835 min Scan# 540
Delta R.T. -0.000 min
Lab File: VL042376.D
Acq: 18 Apr 2025 01:30

Tgt Ion: 43 Resp: 516180

Ion	Ratio	Lower	Upper
43	100		
58	27.1	22.4	33.6



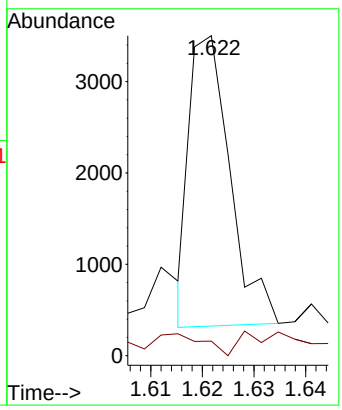


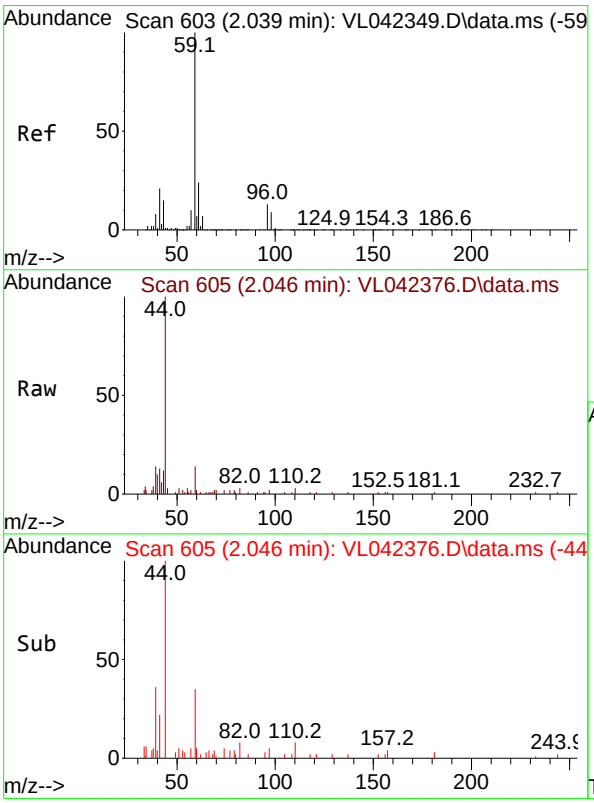
#16
1,3-Butadiene
Concen: 0.224 ppbv
RT: 1.622 min Scan# 4
Delta R.T. 0.013 min
Lab File: VL042376.D
Acq: 18 Apr 2025 01:30

Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025DL

Tgt Ion: 39 Resp: 1757

Ion	Ratio	Lower	Upper
39	100		
54	9.4	64.9	97.3#

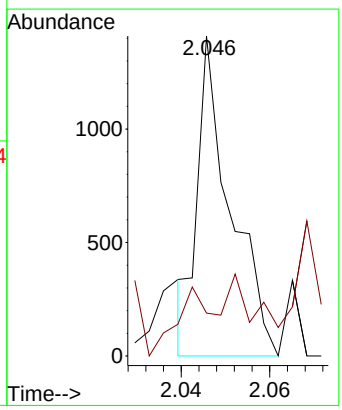


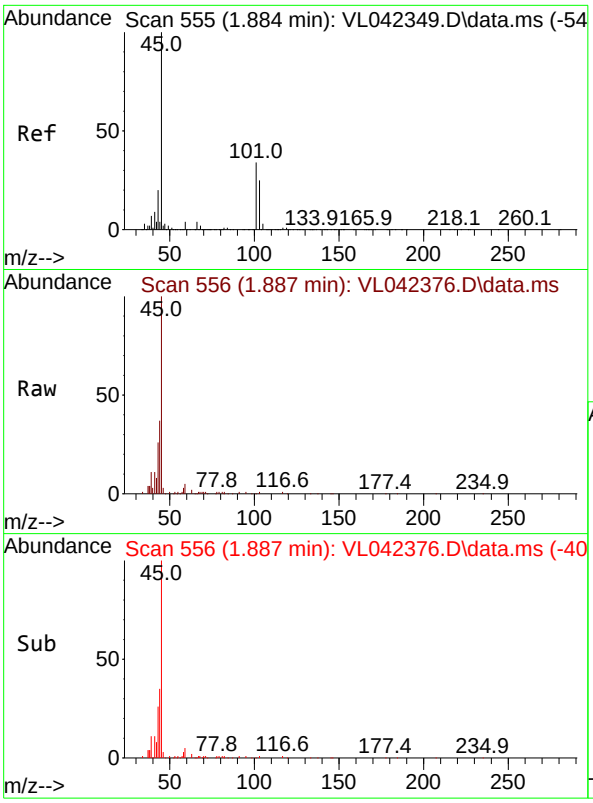


#17
tert-Butyl alcohol
Concen: 0.036 ppbv
RT: 2.046 min Scan# 605
Delta R.T. 0.006 min
Lab File: VL042376.D
Acq: 18 Apr 2025 01:30

Tgt Ion: 59 Resp: 728

Ion	Ratio	Lower	Upper
59	100		
57	103.0	8.7	13.1#



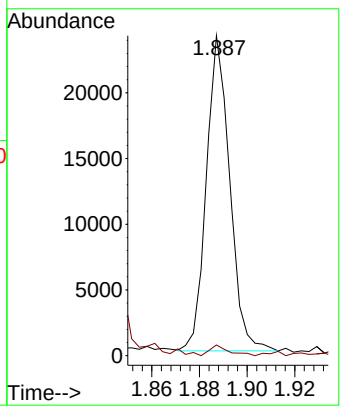


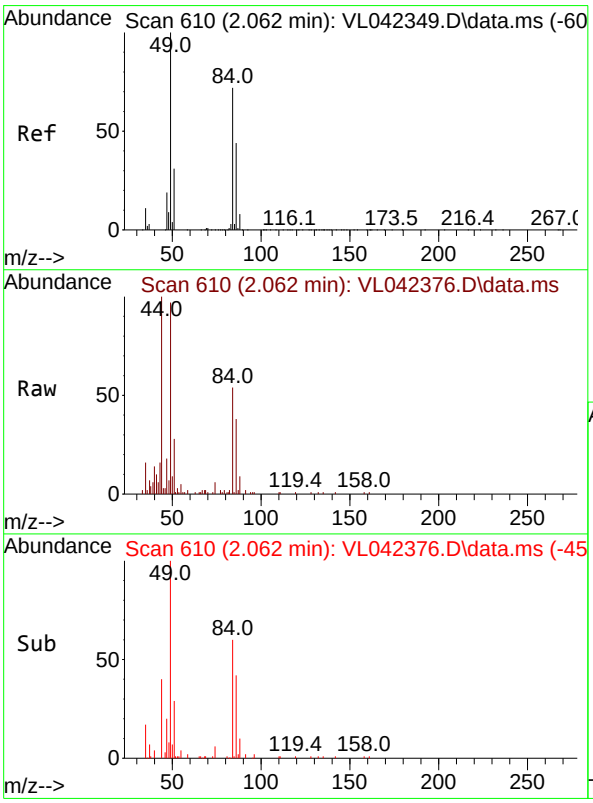
#19
Isopropyl Alcohol
Concen: 1.797 ppbv
RT: 1.887 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042376.D
Acq: 18 Apr 2025 01:30

Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025DL

Tgt Ion: 45 Resp: 16398

Ion	Ratio	Lower	Upper
45	100		
58	851.7	34.5	51.7#

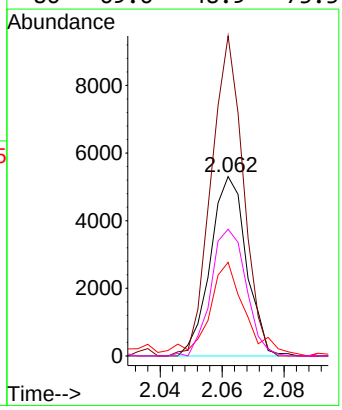


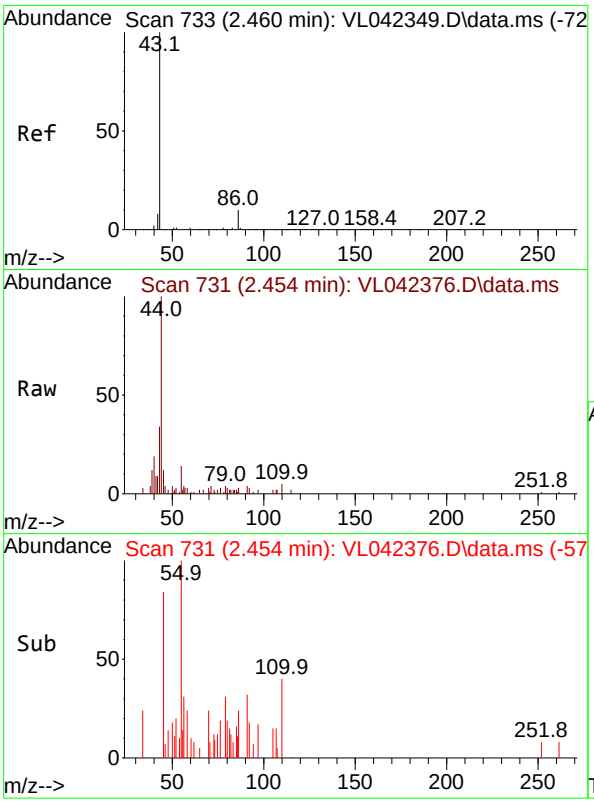


#20
Methylene Chloride
Concen: 0.665 ppbv
RT: 2.062 min Scan# 610
Delta R.T. -0.000 min
Lab File: VL042376.D
Acq: 18 Apr 2025 01:30

Tgt Ion: 84 Resp: 4276

Ion	Ratio	Lower	Upper
84	100		
49	178.4	111.6	167.4#
51	49.6	35.1	52.7
86	69.6	48.9	73.3



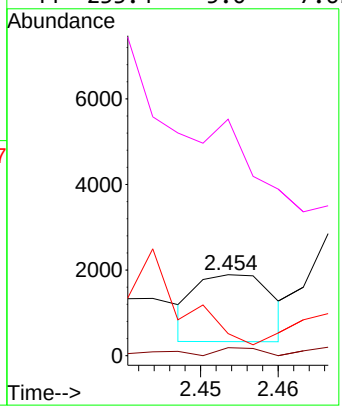


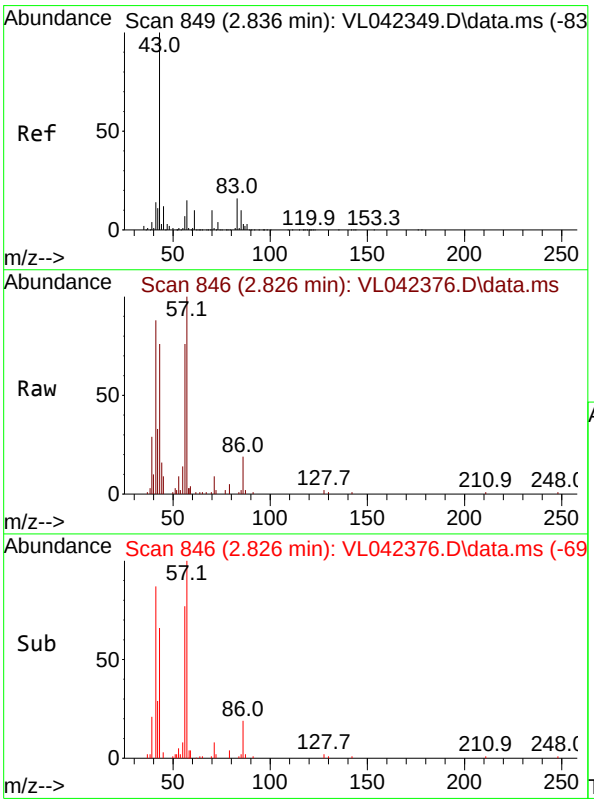
#23
Vinyl Acetate
Concen: 0.160 ppbv
RT: 2.454 min Scan# 7
Delta R.T. -0.007 min
Lab File: VL042376.D
Acq: 18 Apr 2025 01:30

Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025DL

Tgt Ion: 43 Resp: 1065

Ion	Ratio	Lower	Upper
43	100		
86	26.6	6.5	9.7#
42	0.0	7.8	11.8#
44	233.4	5.0	7.6#

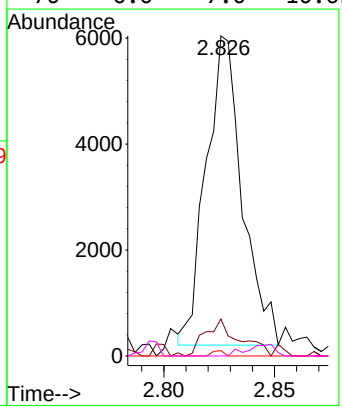


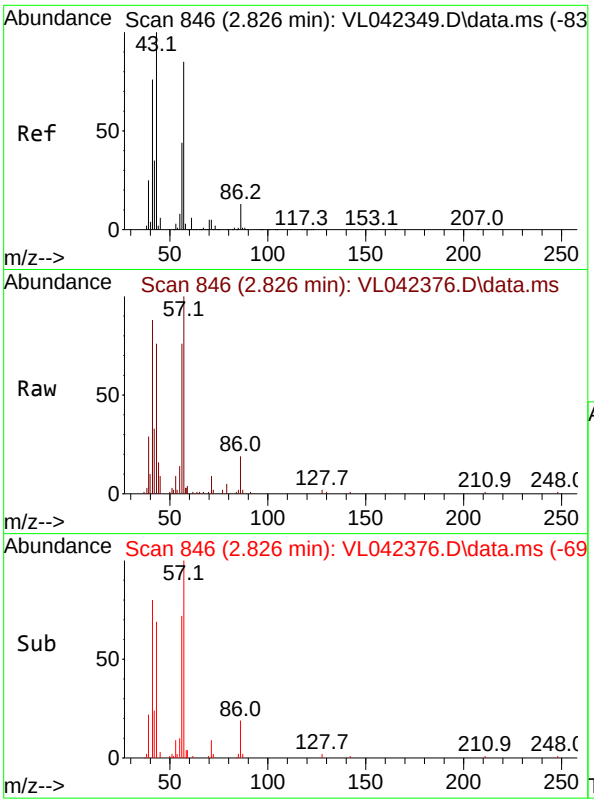


#25
Ethyl Acetate
Concen: 0.164 ppbv
RT: 2.826 min Scan# 846
Delta R.T. -0.010 min
Lab File: VL042376.D
Acq: 18 Apr 2025 01:30

Tgt Ion: 43 Resp: 6629

Ion	Ratio	Lower	Upper
43	100		
45	12.4	8.3	12.5
61	0.6	7.3	10.9#
70	0.0	7.0	10.6#



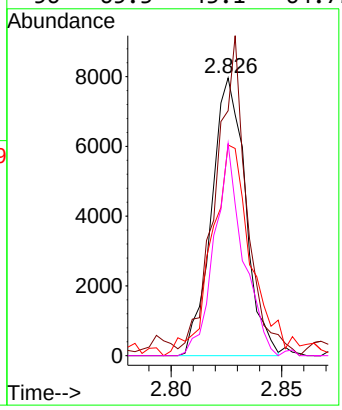


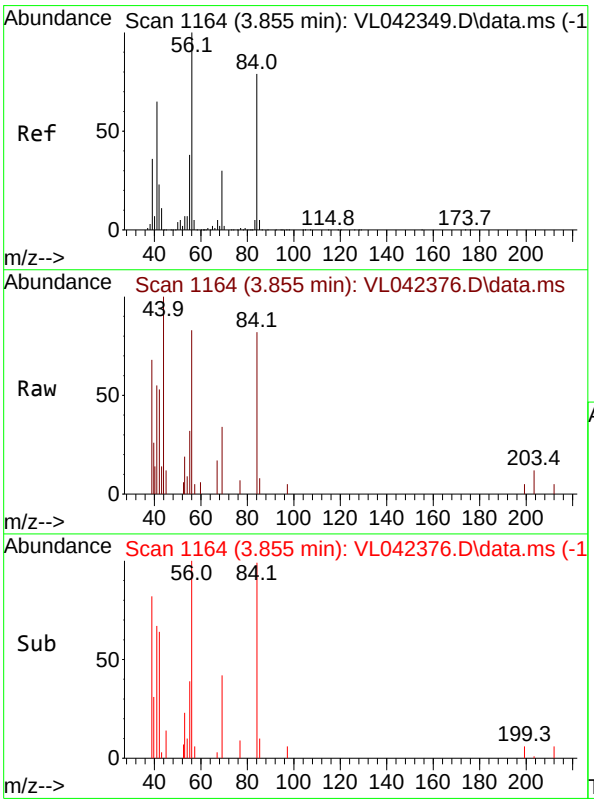
#26
Hexane
Concen: 0.517 ppbv
RT: 2.826 min Scan# 84
Delta R.T. -0.000 min
Lab File: VL042376.D
Acq: 18 Apr 2025 01:30

Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025DL

Tgt Ion: 57 Resp: 8480

Ion	Ratio	Lower	Upper
57	100		
41	104.3	77.9	116.9
43	84.6	208.4	312.6#
56	65.3	43.1	64.7#

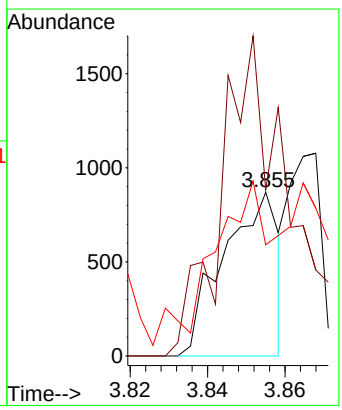


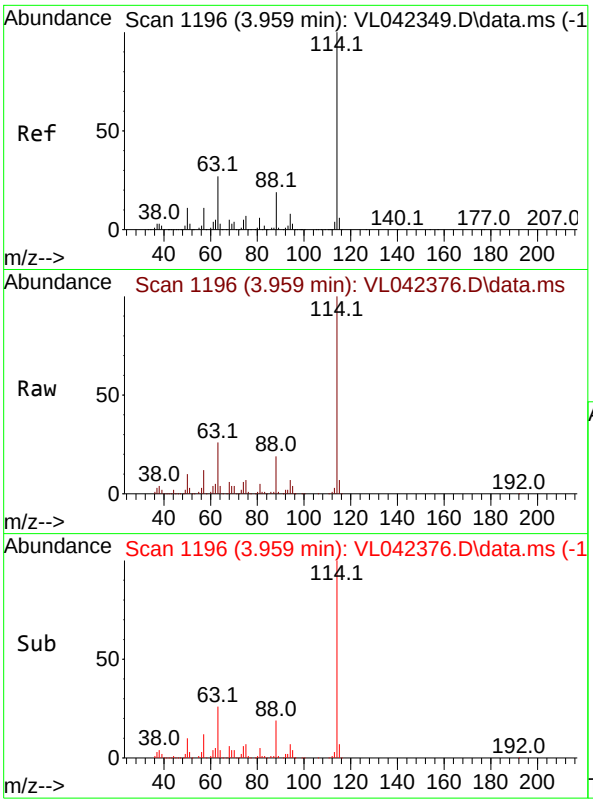


#30
Cyclohexane
Concen: 0.065 ppbv
RT: 3.855 min Scan# 1164
Delta R.T. -0.000 min
Lab File: VL042376.D
Acq: 18 Apr 2025 01:30

Tgt Ion: 84 Resp: 856

Ion	Ratio	Lower	Upper
84	100		
56	255.0	101.0	151.4#
41	229.6	67.4	101.0#



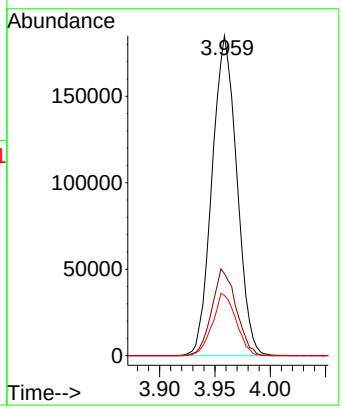


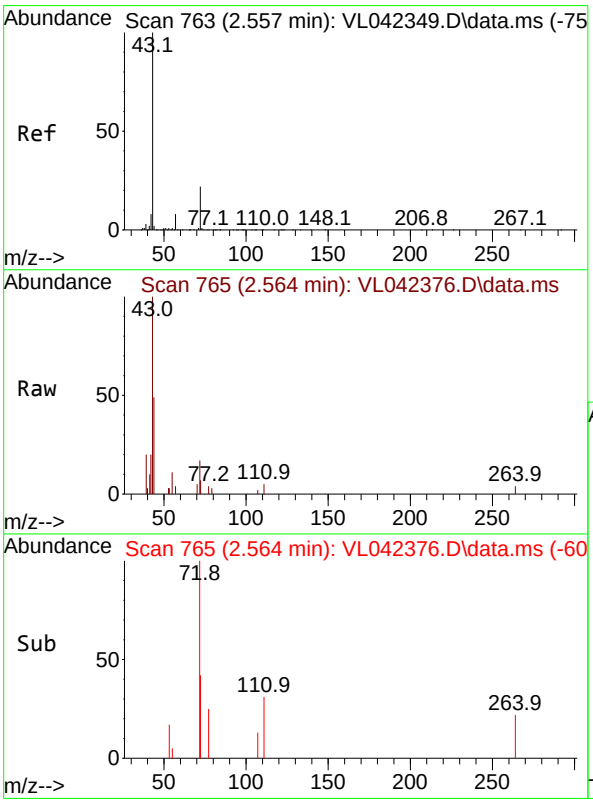
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.959 min Scan# 11
Delta R.T. -0.000 min
Lab File: VL042376.D
Acq: 18 Apr 2025 01:30

Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025DL

Tgt Ion:114 Resp: 288404

Ion	Ratio	Lower	Upper
114	100		
63	26.7	21.8	32.6
88	18.6	15.5	23.3

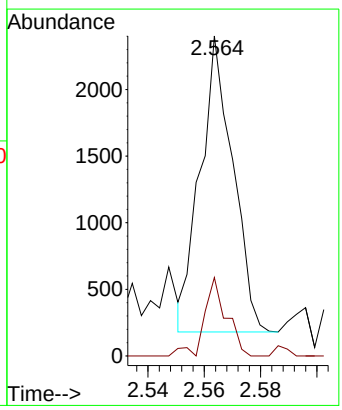


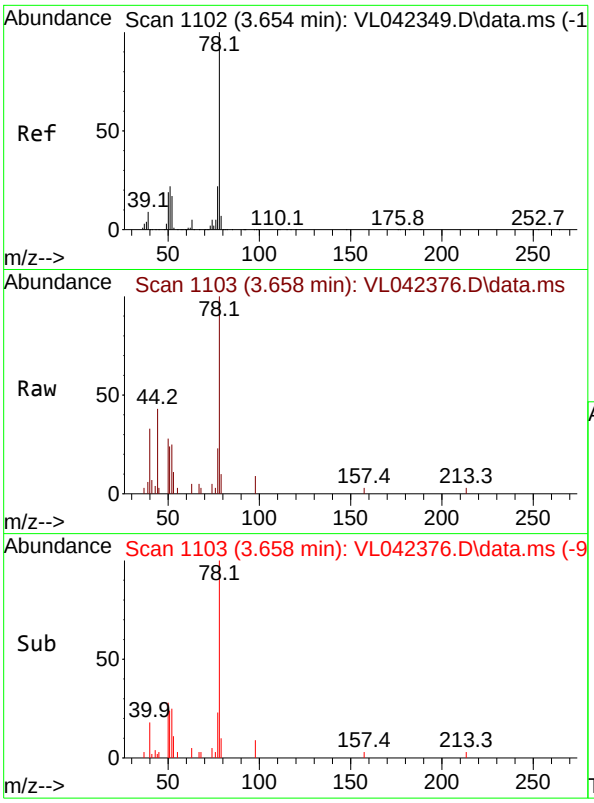


#34
2-Butanone
Concen: 0.078 ppbv
RT: 2.564 min Scan# 765
Delta R.T. 0.006 min
Lab File: VL042376.D
Acq: 18 Apr 2025 01:30

Tgt Ion: 43 Resp: 1784

Ion	Ratio	Lower	Upper
43	100		
72	19.5	18.2	27.2



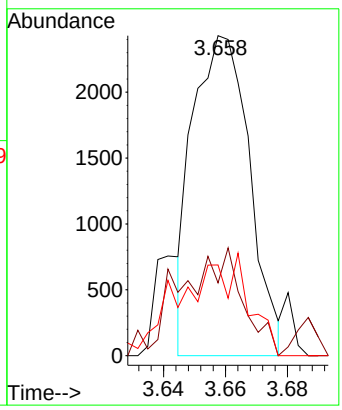


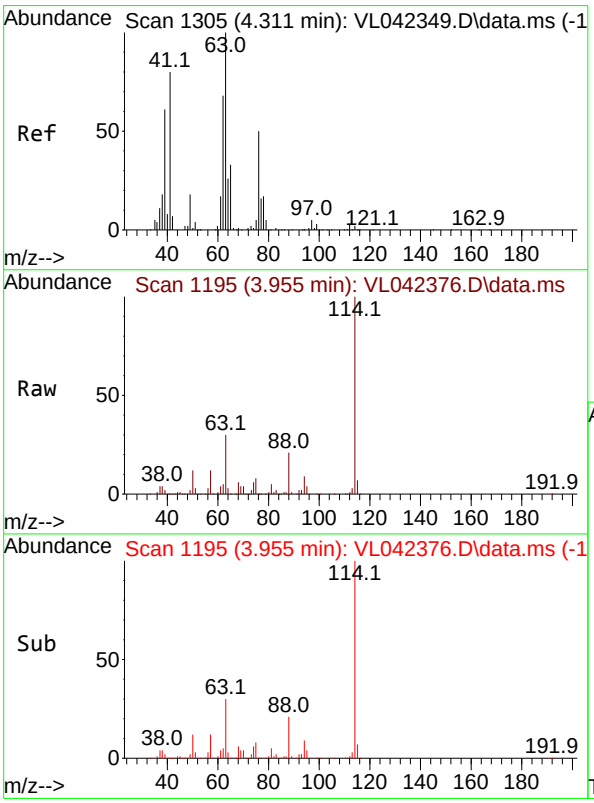
#36
Benzene
Concen: 0.099 ppbv
RT: 3.658 min Scan# 11
Delta R.T. 0.003 min
Lab File: VL042376.D
Acq: 18 Apr 2025 01:30

Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025DL

Tgt Ion: 78 Resp: 3080

Ion	Ratio	Lower	Upper
78	100		
77	25.5	17.4	26.0
50	52.0	15.5	23.3#

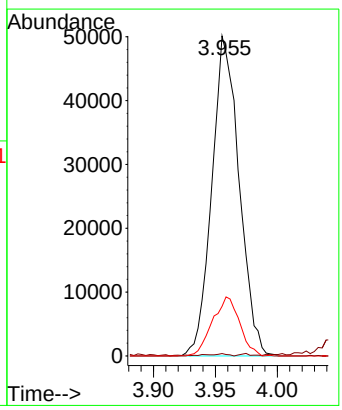


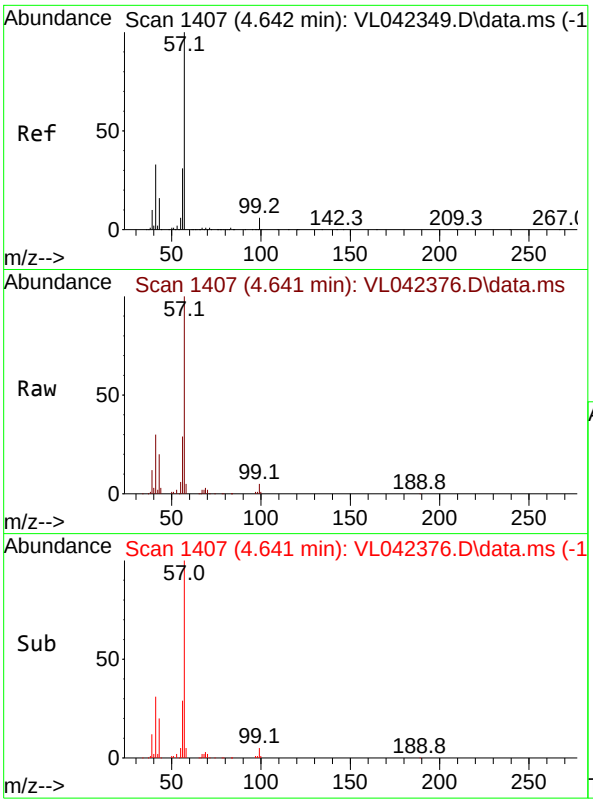


#39
1,2-Dichloropropane
Concen: 6.639 ppbv
RT: 3.955 min Scan# 1195
Delta R.T. -0.356 min
Lab File: VL042376.D
Acq: 18 Apr 2025 01:30

Tgt Ion: 63 Resp: 76957

Ion	Ratio	Lower	Upper
63	100		
41	0.5	64.2	96.2#
62	15.5	54.3	81.5#



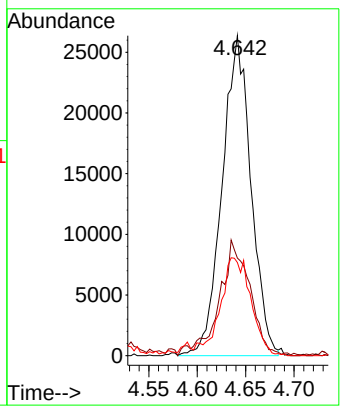


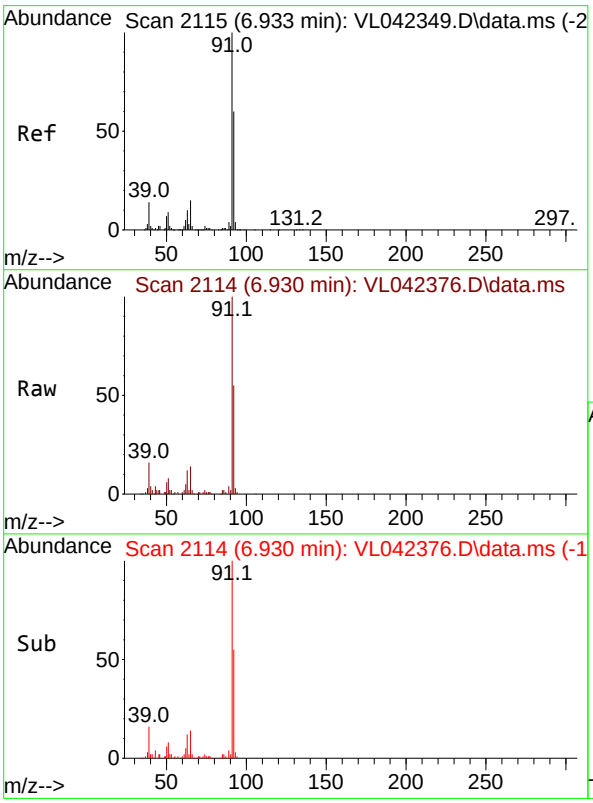
#44
2,2,4-Trimethylpentane
Concen: 1.018 ppbv
RT: 4.641 min Scan# 14
Delta R.T. -0.000 min
Lab File: VL042376.D
Acq: 18 Apr 2025 01:30

Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025DL

Tgt Ion: 57 Resp: 54714

Ion	Ratio	Lower	Upper
57	100		
41	38.6	27.2	40.8
56	34.7	25.7	38.5

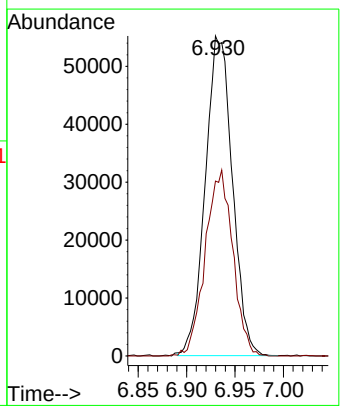


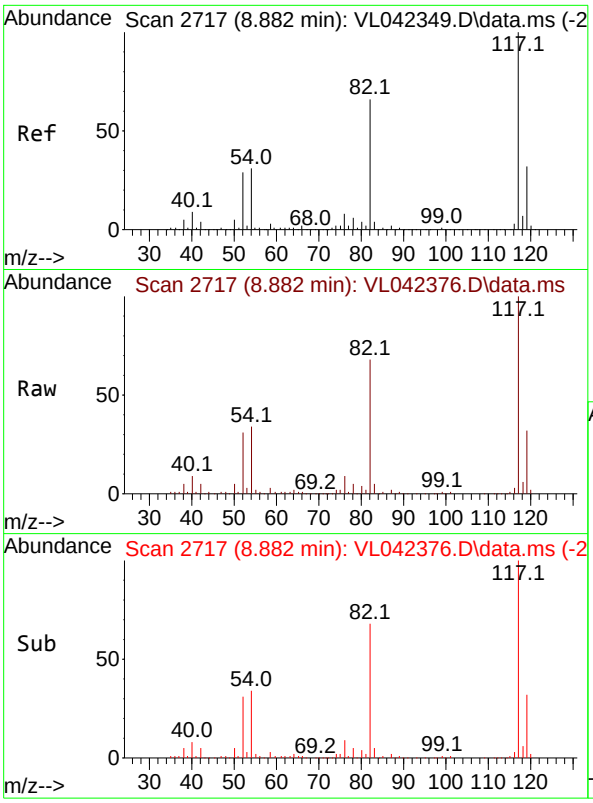


#53
Toluene
Concen: 2.874 ppbv
RT: 6.930 min Scan# 2114
Delta R.T. -0.003 min
Lab File: VL042376.D
Acq: 18 Apr 2025 01:30

Tgt Ion: 91 Resp: 107299

Ion	Ratio	Lower	Upper
91	100		
92	59.1	48.2	72.4



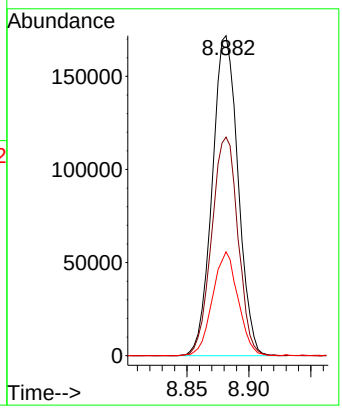


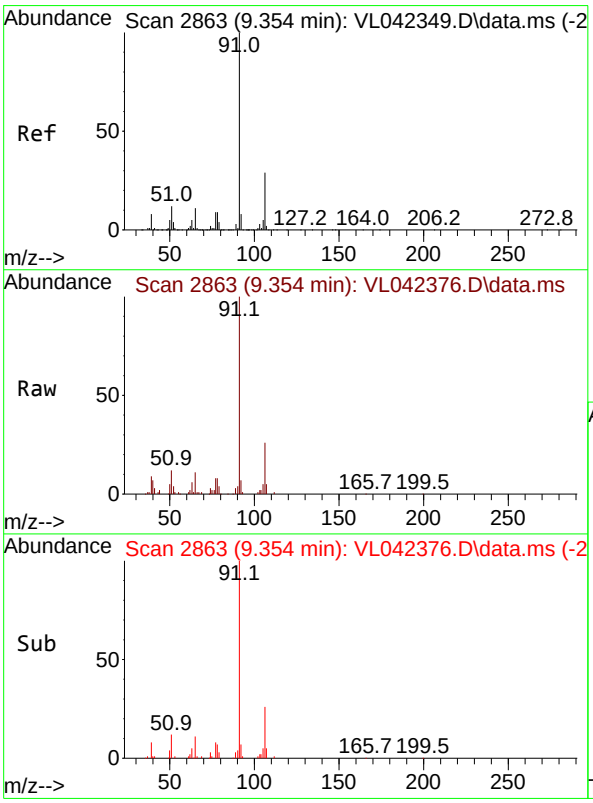
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.882 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL042376.D
Acq: 18 Apr 2025 01:30

Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025DL

Tgt Ion:117 Resp: 249449

Ion	Ratio	Lower	Upper
117	100		
82	69.7	57.8	86.6
119	32.2	25.2	37.8

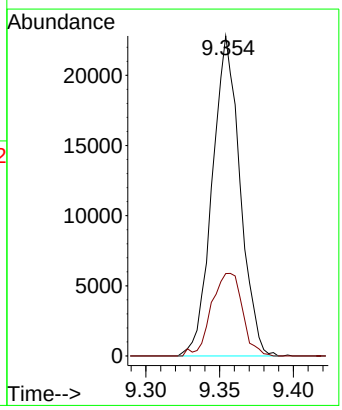


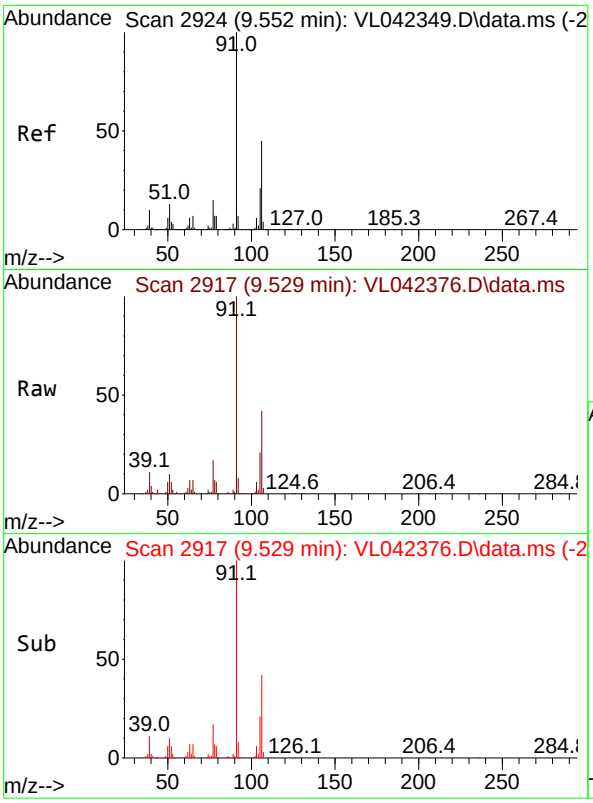


#58
Ethyl Benzene
Concen: 0.605 ppbv
RT: 9.354 min Scan# 2863
Delta R.T. -0.000 min
Lab File: VL042376.D
Acq: 18 Apr 2025 01:30

Tgt Ion: 91 Resp: 29882

Ion	Ratio	Lower	Upper
91	100		
106	25.8	23.0	34.4



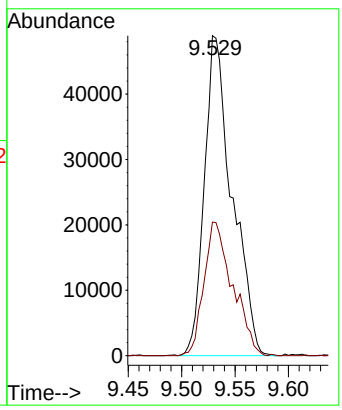


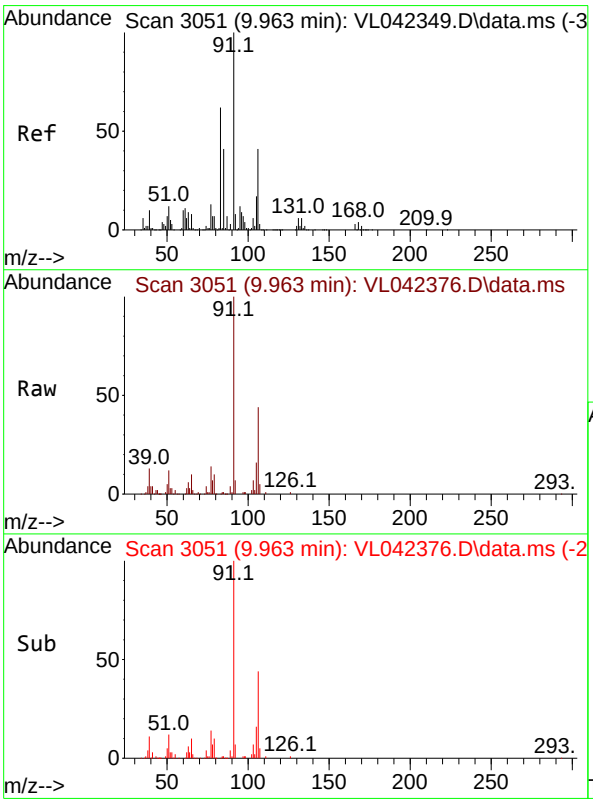
#59
m/p-Xylene
Concen: 2.217 ppbv
RT: 9.529 min Scan# 2
Delta R.T. -0.023 min
Lab File: VL042376.D
Acq: 18 Apr 2025 01:30

Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025DL

Tgt Ion: 91 Resp: 88263

Ion	Ratio	Lower	Upper
91	100		
106	43.4	35.4	53.2

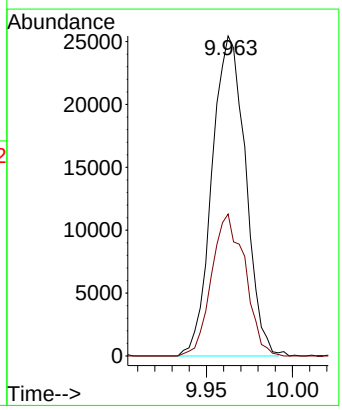


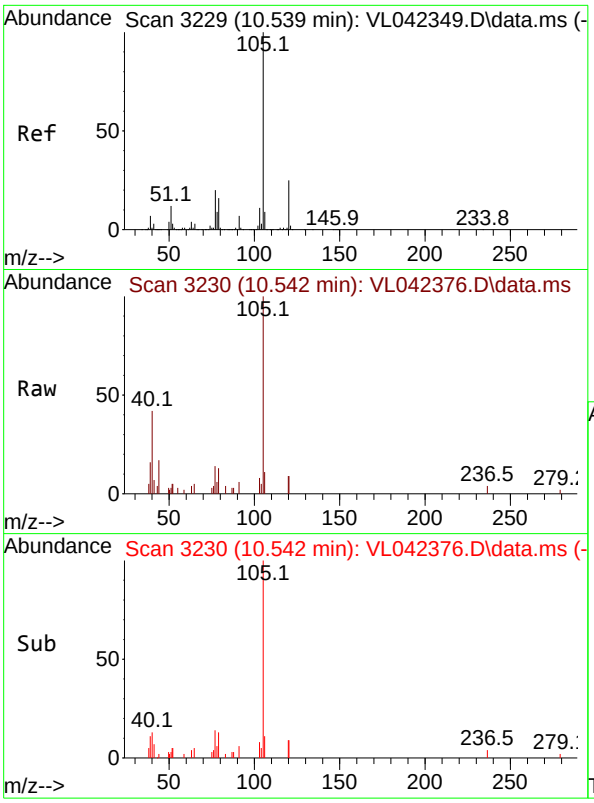


#60
o-Xylene
Concen: 0.859 ppbv
RT: 9.963 min Scan# 3051
Delta R.T. -0.000 min
Lab File: VL042376.D
Acq: 18 Apr 2025 01:30

Tgt Ion: 91 Resp: 34430

Ion	Ratio	Lower	Upper
91	100		
106	44.3	21.1	63.4



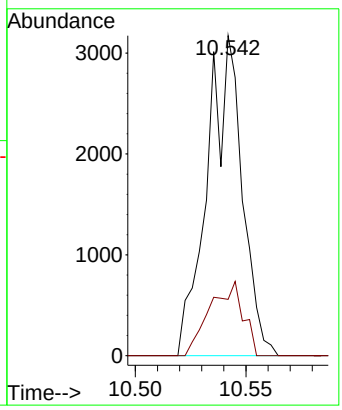


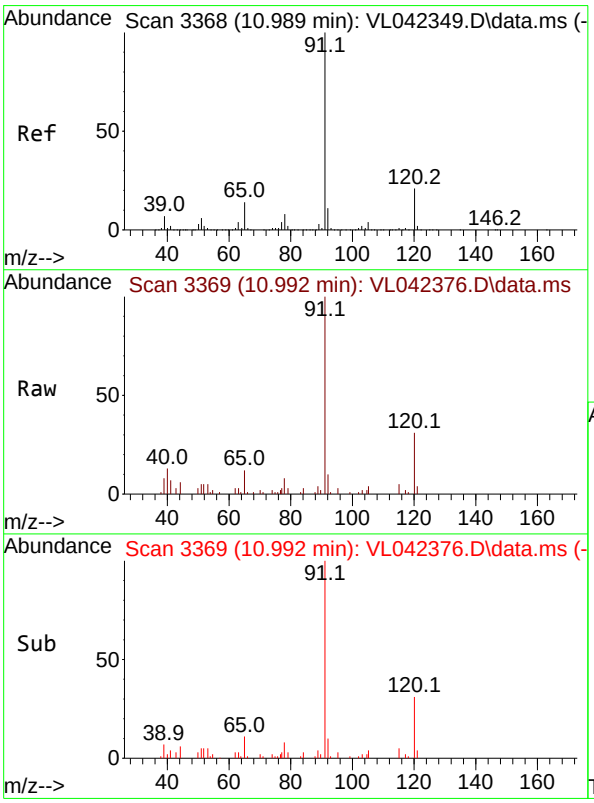
#62
Isopropylbenzene
Concen: 0.059 ppbv
RT: 10.542 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042376.D
Acq: 18 Apr 2025 01:30

Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025DL

Tgt Ion:105 Resp: 3486

Ion	Ratio	Lower	Upper
105	100		
120	22.0	19.8	29.8

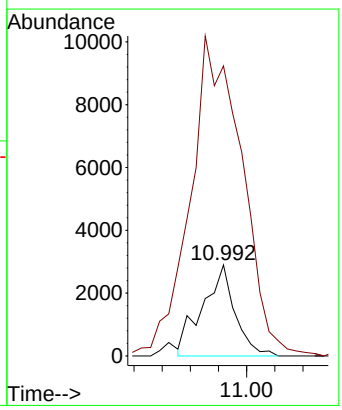


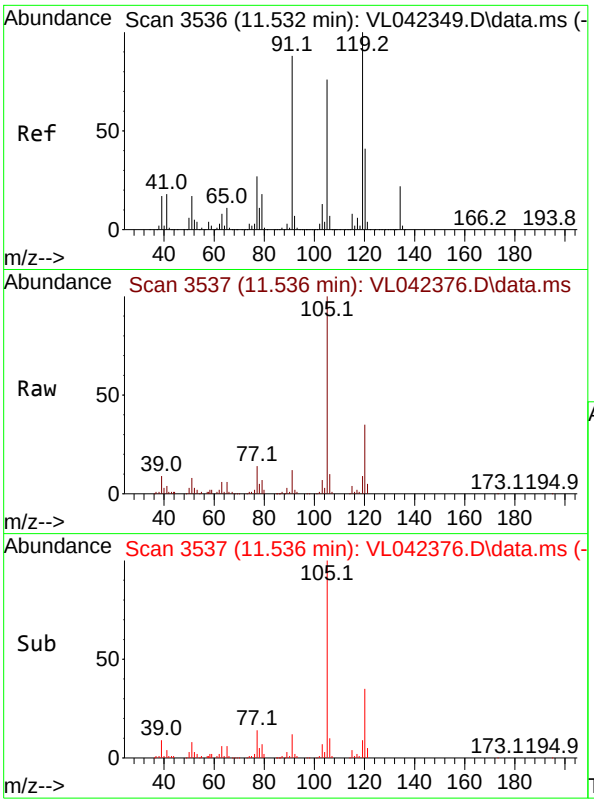


#64
n-propylbenzene
Concen: 0.158 ppbv
RT: 10.992 min Scan# 3369
Delta R.T. 0.003 min
Lab File: VL042376.D
Acq: 18 Apr 2025 01:30

Tgt Ion:120 Resp: 2336

Ion	Ratio	Lower	Upper
120	100		
91	559.2	392.4	588.6



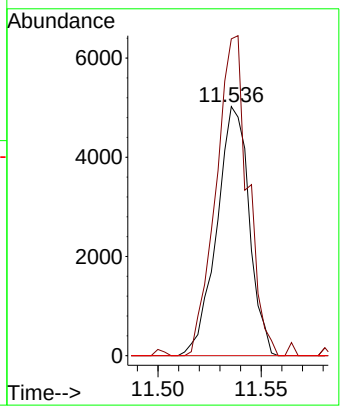


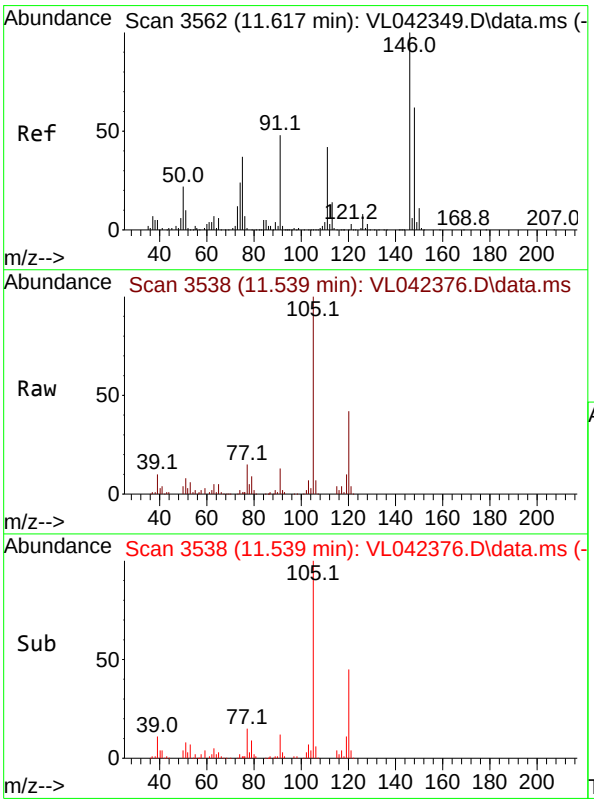
#65
tert-Butylbenzene
Concen: 0.101 ppbv
RT: 11.536 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042376.D
Acq: 18 Apr 2025 01:30

Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025DL

Tgt Ion:119 Resp: 5490

Ion	Ratio	Lower	Upper
119	100		
91	128.3	74.6	111.8#
134	0.0	18.8	28.2#

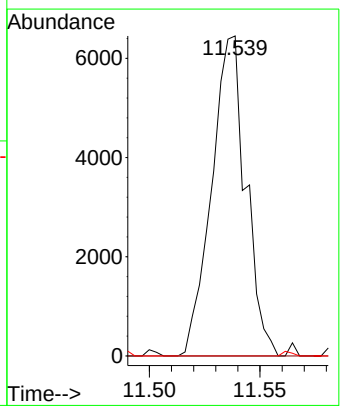


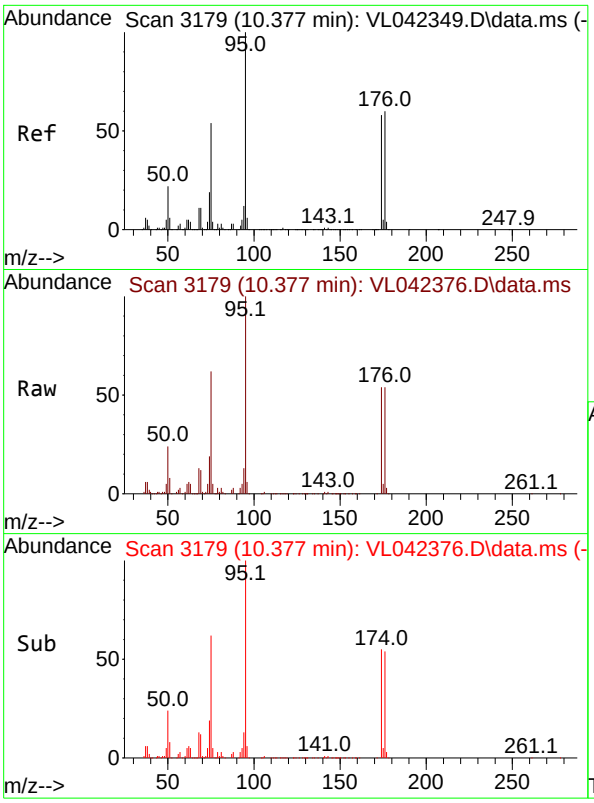


#66
Benzyl Chloride
Concen: 1.170 ppbv
RT: 11.539 min Scan# 3538
Delta R.T. -0.078 min
Lab File: VL042376.D
Acq: 18 Apr 2025 01:30

Tgt Ion: 91 Resp: 6956

Ion	Ratio	Lower	Upper
91	100		
126	0.1	11.8	17.6#
128	0.4	4.5	6.7#



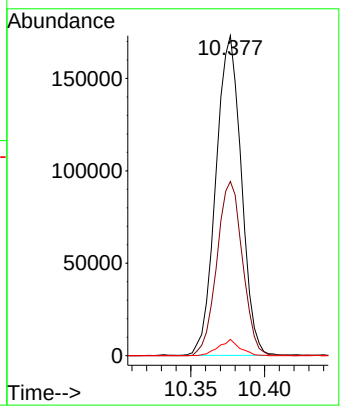


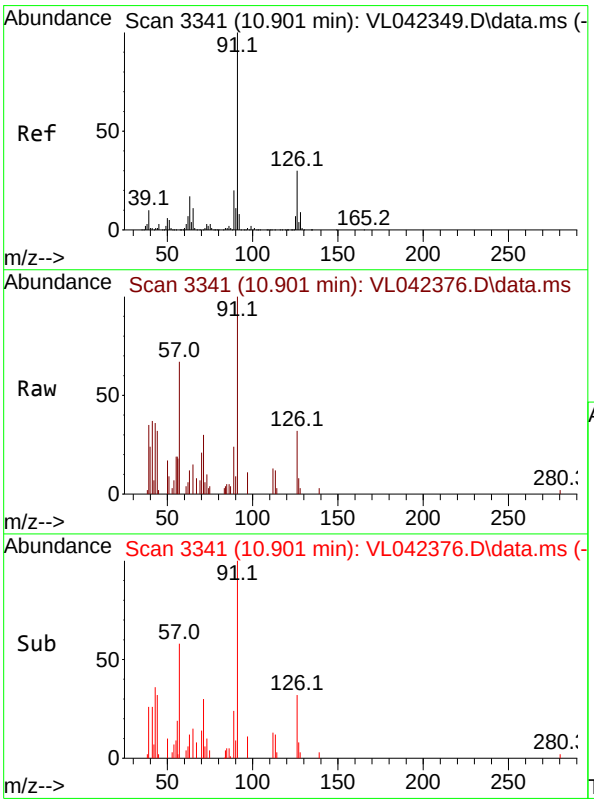
#68
1-Bromo-4-Fluorobenzene
Concen: 10.106 ppbv
RT: 10.377 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042376.D
Acq: 18 Apr 2025 01:30

Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025DL

Tgt Ion: 95 Resp: 207163

Ion	Ratio	Lower	Upper
95	100		
174	54.9	48.5	72.7
175	4.3	3.7	5.5

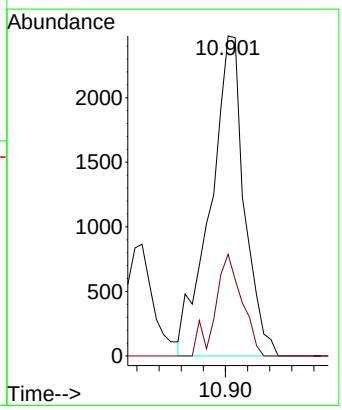


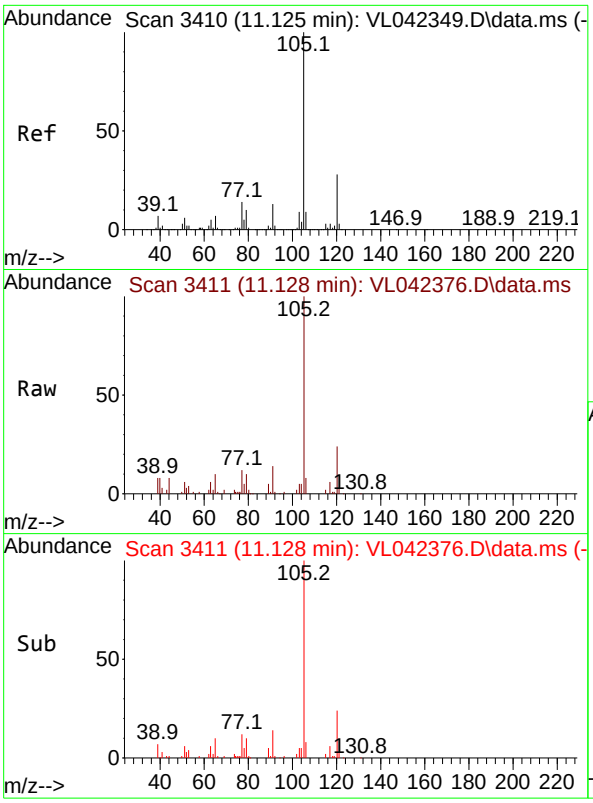


#71
2-Chlorotoluene
Concen: 0.057 ppbv
RT: 10.901 min Scan# 3341
Delta R.T. -0.000 min
Lab File: VL042376.D
Acq: 18 Apr 2025 01:30

Tgt Ion: 91 Resp: 2632

Ion	Ratio	Lower	Upper
91	100		
126	25.2	11.4	45.4



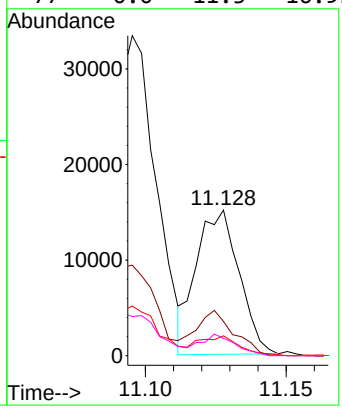


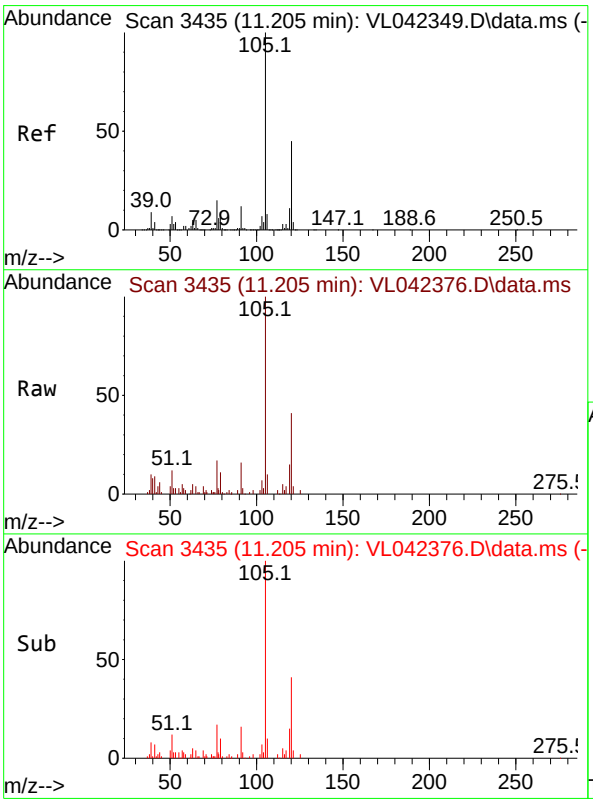
#72
4-Ethyltoluene
Concen: 0.325 ppbv
RT: 11.128 min Scan# 34
Delta R.T. 0.003 min
Lab File: VL042376.D
Acq: 18 Apr 2025 01:30

Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025DL

Tgt Ion:105 Resp: 15927

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#

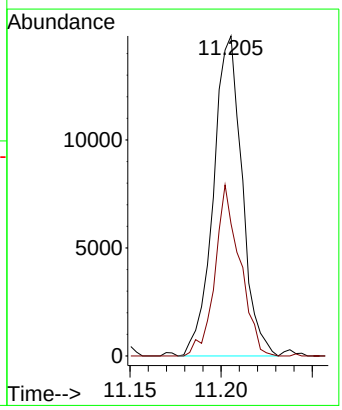


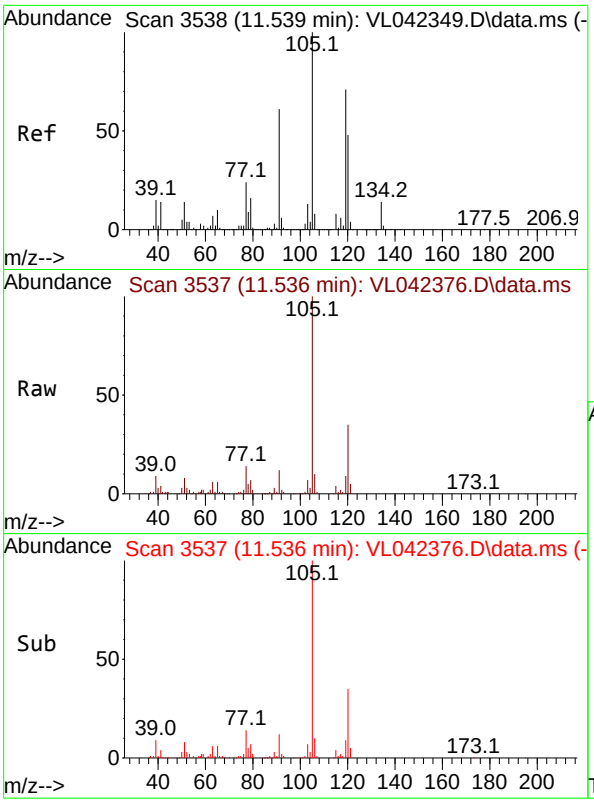


#73
1,3,5-Trimethylbenzene
Concen: 0.375 ppbv
RT: 11.205 min Scan# 3435
Delta R.T. -0.000 min
Lab File: VL042376.D
Acq: 18 Apr 2025 01:30

Tgt Ion:105 Resp: 16220

Ion	Ratio	Lower	Upper
105	100		
120	41.4	35.6	53.4



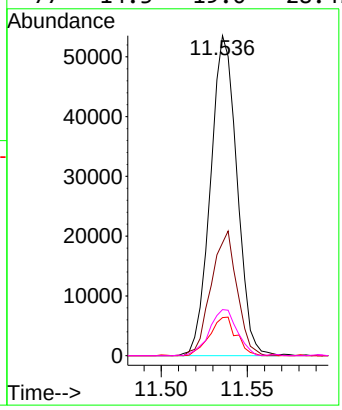


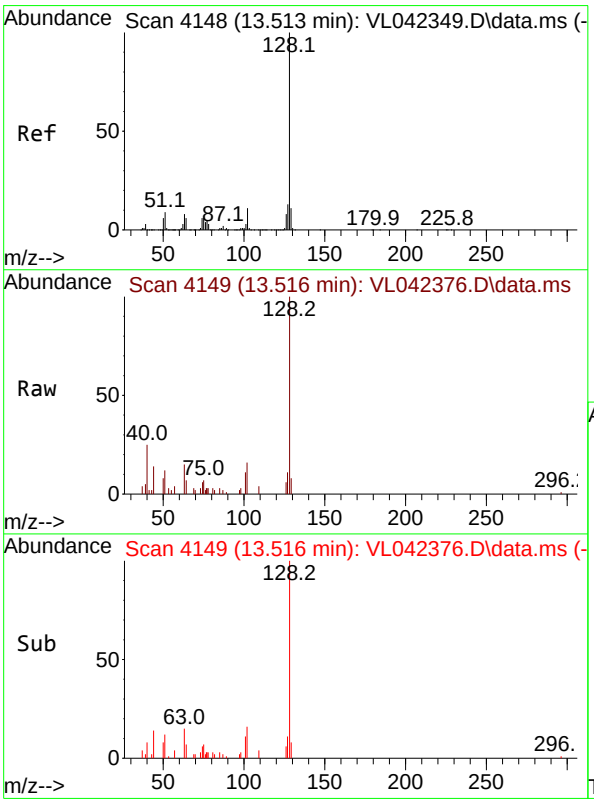
#74
1,2,4-Trimethylbenzene
Concen: 1.132 ppbv
RT: 11.536 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042376.D
Acq: 18 Apr 2025 01:30

Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025DL

Tgt Ion:105 Resp: 57208

Ion	Ratio	Lower	Upper
105	100		
120	35.2	38.1	57.1#
91	11.9	48.8	73.2#
77	14.3	19.0	28.4#

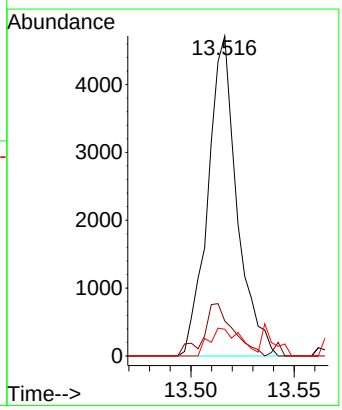




#79
Naphthalene
Concen: 0.076 ppbv
RT: 13.516 min Scan# 4149
Delta R.T. 0.003 min
Lab File: VL042376.D
Acq: 18 Apr 2025 01:30

Tgt Ion:128 Resp: 4610

Ion	Ratio	Lower	Upper
128	100		
127	10.9	10.6	15.8
129	8.4	8.6	12.8#



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042377.D
Acq On : 18 Apr 2025 02:01
Operator : SY/MD
Sample : Q1726-02DL 20X
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025DL

Quant Time: Apr 18 04:40:09 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

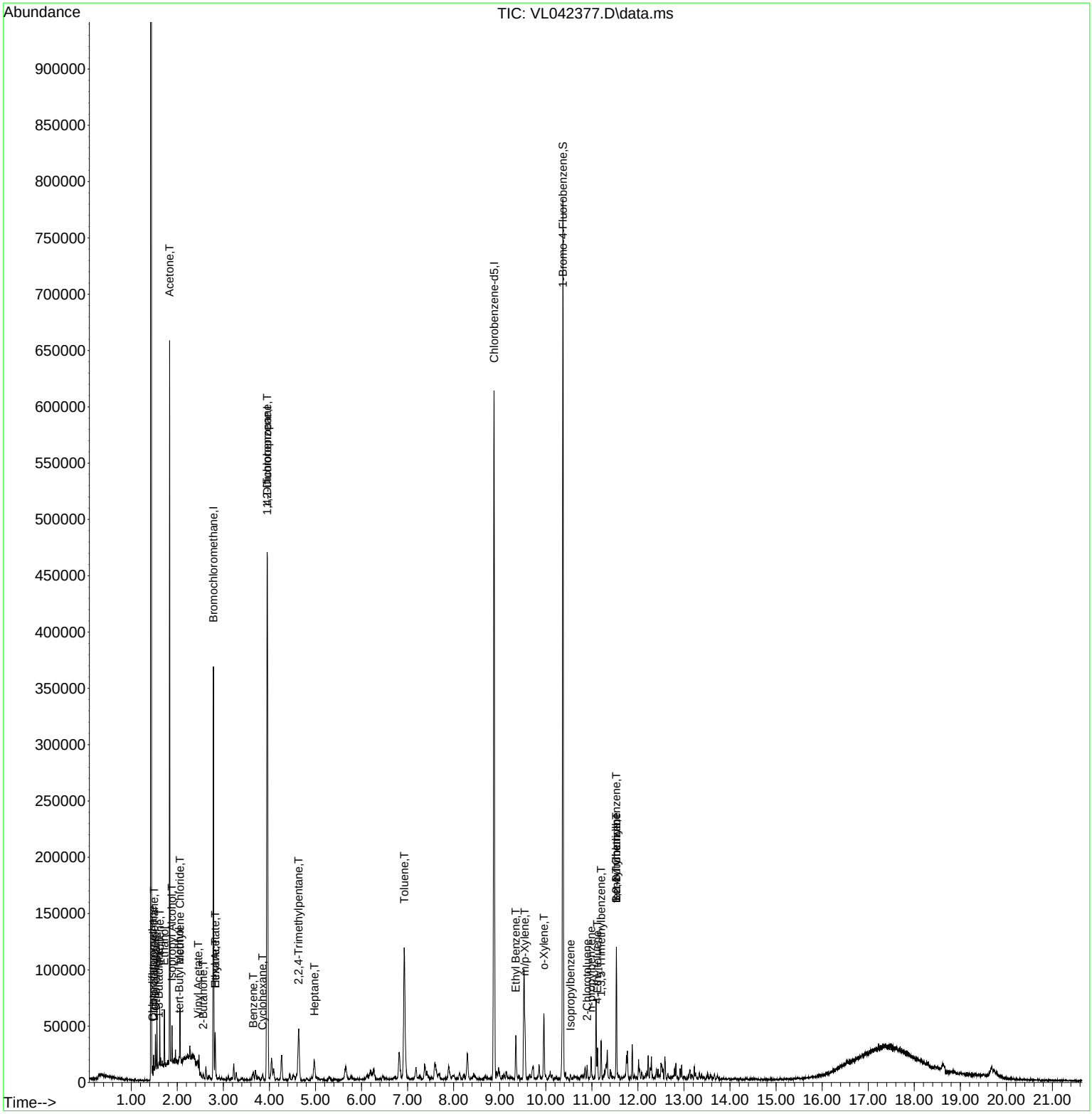
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.784	49	99418	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.955	114	272592	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.878	117	237645	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.370	95	202954	10.393	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 103.900%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.496	85	855	0.049	ppbv #	77
3) Chlorodifluoromethane	1.463	51	2780	0.166	ppbv #	88
4) Chloromethane	1.531	50	2346	0.337	ppbv	99
9) Propene	1.619	41	5227	0.686	ppbv	92
10) Heptane	4.975	43	4130	0.193	ppbv #	12
13) Ethanol	1.719	45	17233	14.234	ppbv	84
15) Acetone	1.832	43	269648	16.568	ppbv	98
16) 1,3-Butadiene	1.599	39	621	0.080	ppbv #	75
17) tert-Butyl alcohol	2.043	59	1350	0.067	ppbv #	1
19) Isopropyl Alcohol	1.884	45	13751	1.521	ppbv #	1
20) Methylene Chloride	2.059	84	5948	0.933	ppbv #	95
23) Vinyl Acetate	2.454	43	1337	0.203	ppbv #	1
25) Ethyl Acetate	2.823	43	7282	0.181	ppbv #	87
26) Hexane	2.823	57	9658	0.595	ppbv #	31
30) Cyclohexane	3.852	84	905	0.069	ppbv #	14
34) 2-Butanone	2.560	43	2582	0.120	ppbv #	88
36) Benzene	3.651	78	2479	0.084	ppbv #	90
39) 1,2-Dichloropropane	3.952	63	74190	6.771	ppbv #	22
44) 2,2,4-Trimethylpentane	4.635	57	39733	0.782	ppbv #	90
53) Toluene	6.927	91	79886	2.264	ppbv	100
58) Ethyl Benzene	9.348	91	21503	0.457	ppbv	98
59) m/p-Xylene	9.545	91	13227	0.349	ppbv #	32
60) o-Xylene	9.959	91	25512	0.668	ppbv	97
62) Isopropylbenzene	10.539	105	2498	0.045	ppbv	95
64) n-propylbenzene	10.982	120	1664	0.118	ppbv #	57
65) tert-Butylbenzene	11.532	119	4564	0.089	ppbv #	73
66) Benzyl Chloride	11.532	91	5150	0.909	ppbv #	70
71) 2-Chlorotoluene	10.898	91	2213	0.050	ppbv	92
72) 4-Ethyltoluene	11.121	105	10921	0.234	ppbv #	64
73) 1,3,5-Trimethylbenzene	11.202	105	11199	0.272	ppbv #	84
74) 1,2,4-Trimethylbenzene	11.532	105	41057	0.853	ppbv #	66

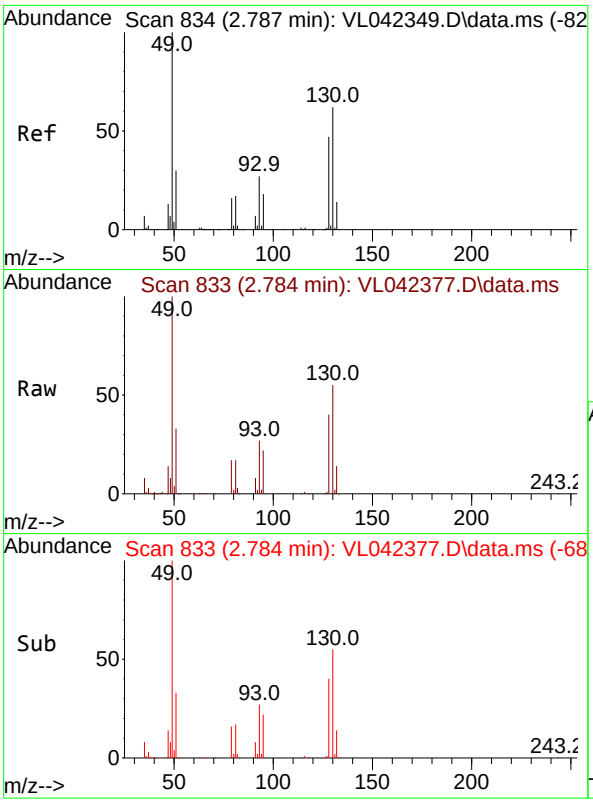
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042377.D
Acq On : 18 Apr 2025 02:01
Operator : SY/MD
Sample : Q1726-02DL 20X
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025DL

Quant Time: Apr 18 04:40:09 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



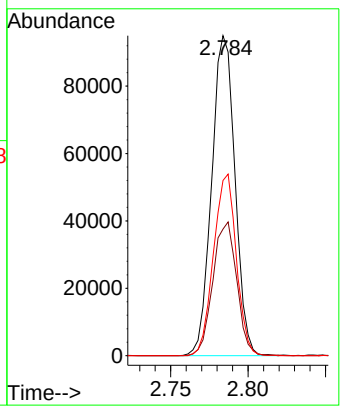


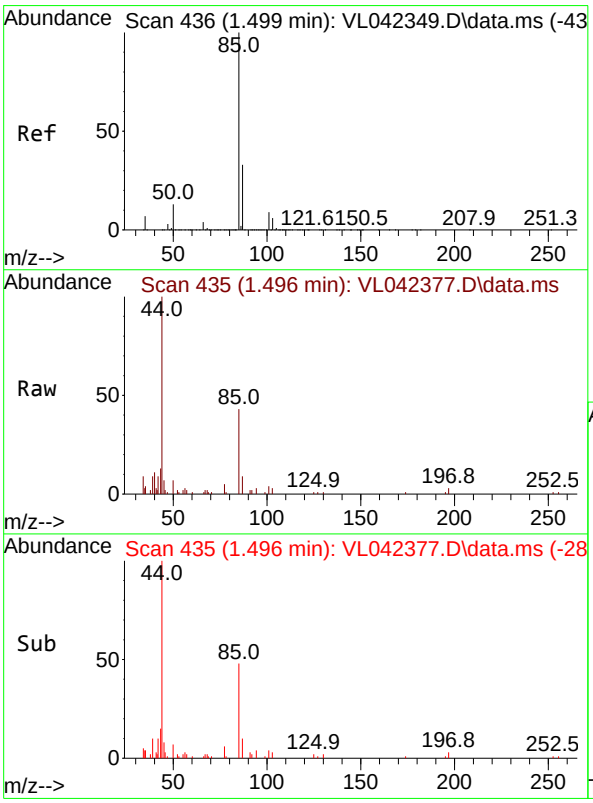
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 8
Delta R.T. -0.003 min
Lab File: VL042377.D
Acq: 18 Apr 2025 02:01

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025DL

Tgt Ion: 49 Resp: 99418

Ion	Ratio	Lower	Upper
49	100		
128	42.9	22.8	68.4
130	55.5	29.3	88.0

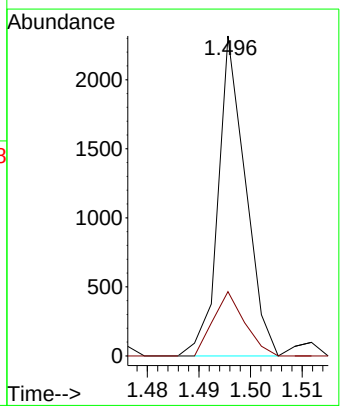


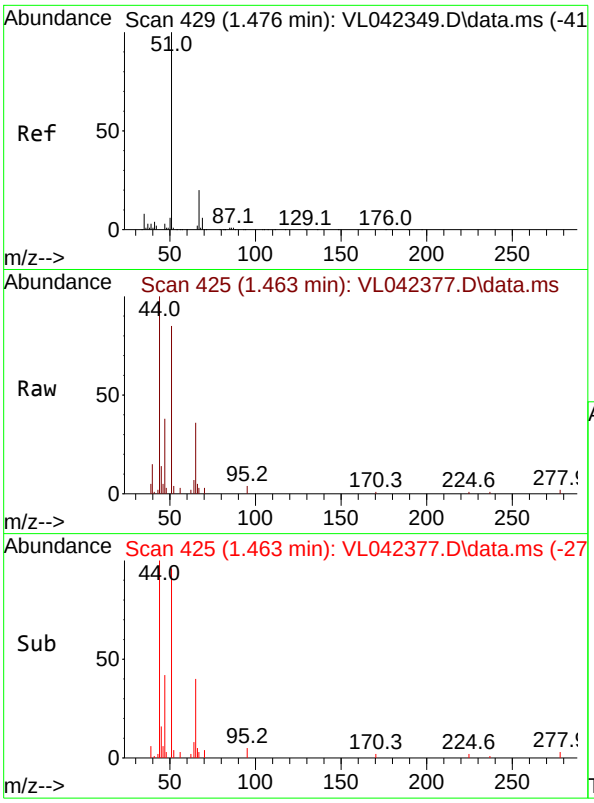


#2
Dichlorodifluoromethane
Concen: 0.049 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.003 min
Lab File: VL042377.D
Acq: 18 Apr 2025 02:01

Tgt Ion: 85 Resp: 855

Ion	Ratio	Lower	Upper
85	100		
87	20.1	26.6	39.8#



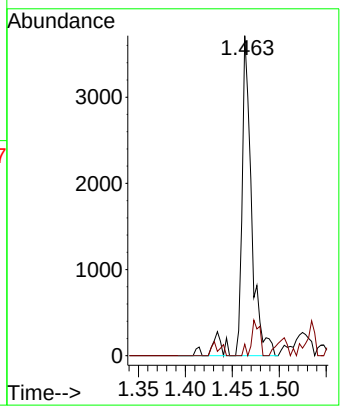


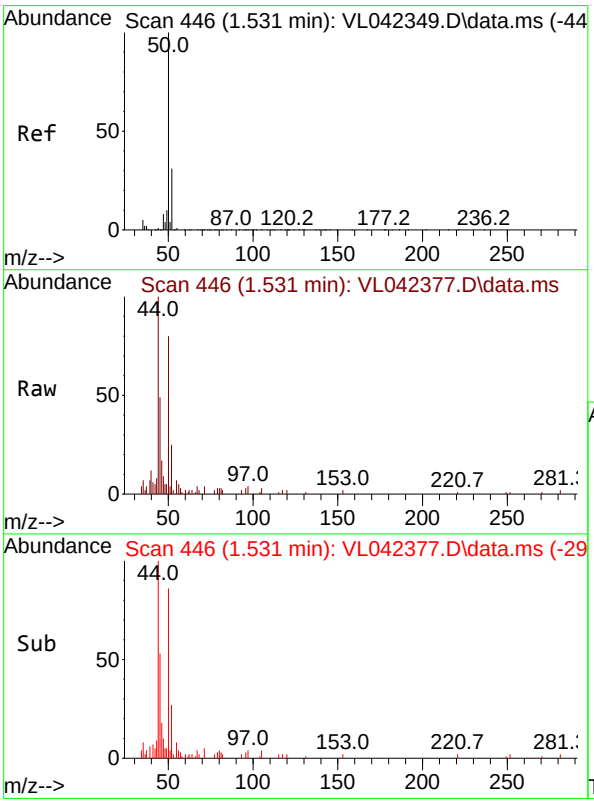
#3
Chlorodifluoromethane
Concen: 0.166 ppbv
RT: 1.463 min Scan# 4
Delta R.T. -0.013 min
Lab File: VL042377.D
Acq: 18 Apr 2025 02:01

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025DL

Tgt Ion: 51 Resp: 2780

Ion	Ratio	Lower	Upper
51	100		
67	15.0	16.2	24.4#

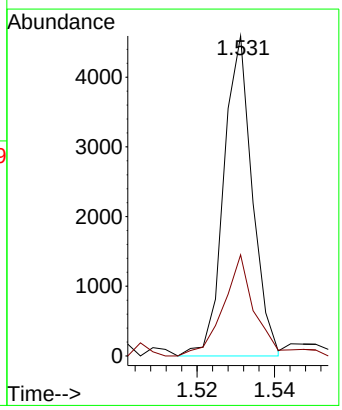


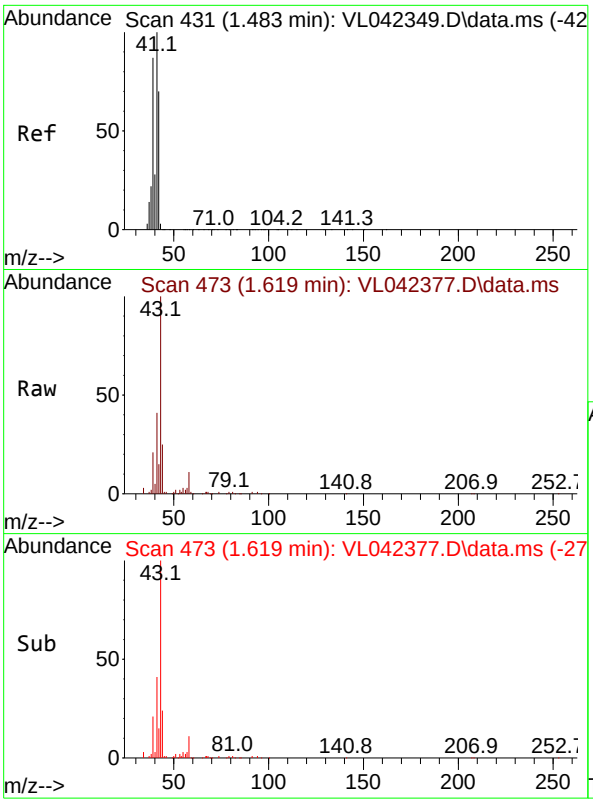


#4
Chloromethane
Concen: 0.337 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL042377.D
Acq: 18 Apr 2025 02:01

Tgt Ion: 50 Resp: 2346

Ion	Ratio	Lower	Upper
50	100		
52	31.6	24.7	37.1



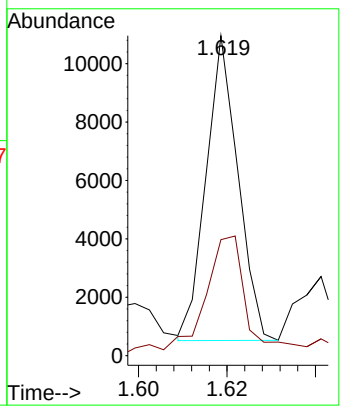


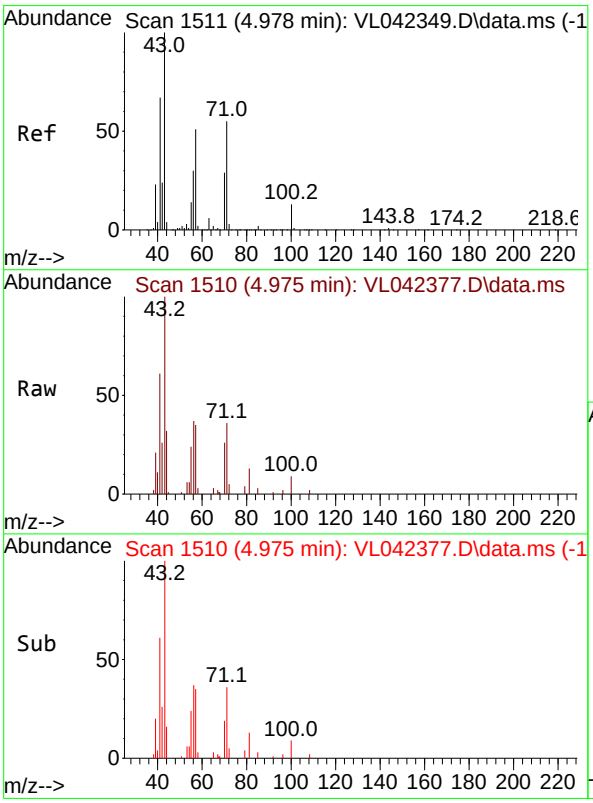
#9
Propene
Concen: 0.686 ppbv
RT: 1.619 min Scan# 4
Delta R.T. 0.136 min
Lab File: VL042377.D
Acq: 18 Apr 2025 02:01

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025DL

Tgt Ion: 41 Resp: 5227

Ion	Ratio	Lower	Upper
41	100		
42	63.9	56.2	84.4

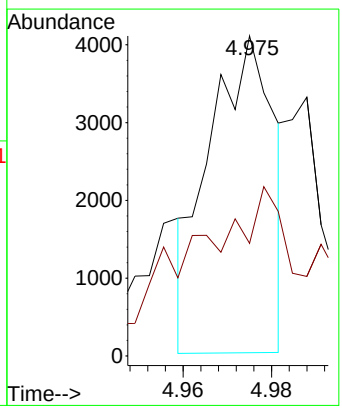


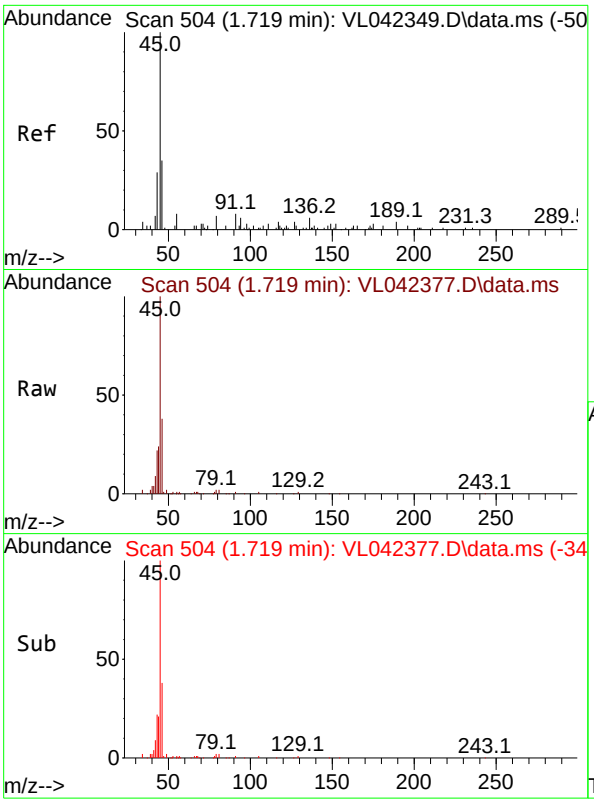


#10
Heptane
Concen: 0.193 ppbv
RT: 4.975 min Scan# 1510
Delta R.T. -0.003 min
Lab File: VL042377.D
Acq: 18 Apr 2025 02:01

Tgt Ion: 43 Resp: 4130

Ion	Ratio	Lower	Upper
43	100		
57	110.7	39.9	59.9#



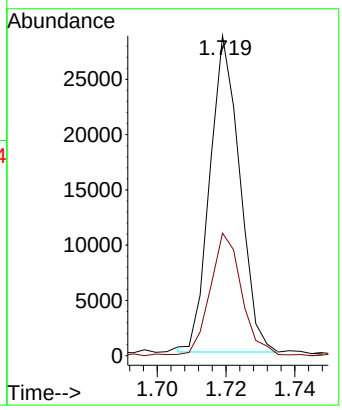


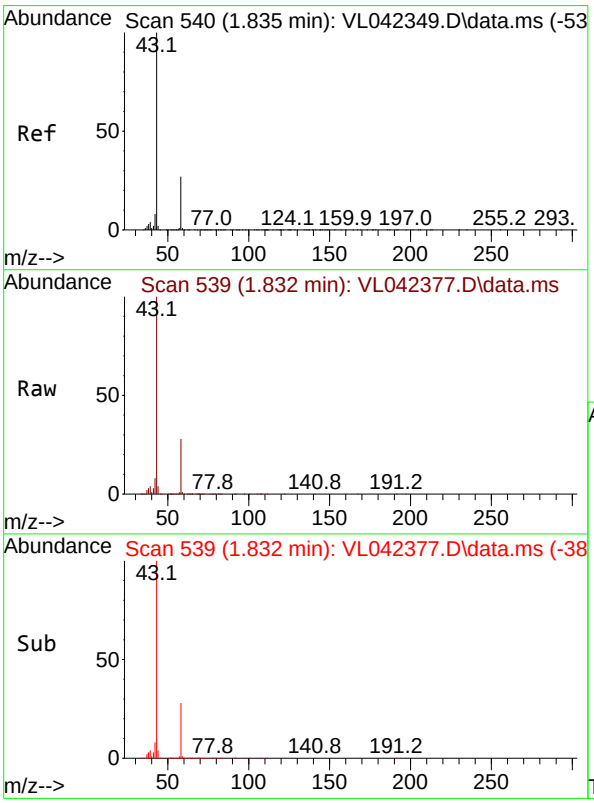
#13
Ethanol
Concen: 14.234 ppbv
RT: 1.719 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL042377.D
Acq: 18 Apr 2025 02:01

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025DL

Tgt Ion: 45 Resp: 17233

Ion	Ratio	Lower	Upper
45	100		
46	43.5	21.9	87.7

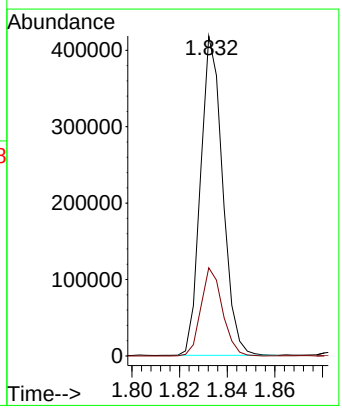


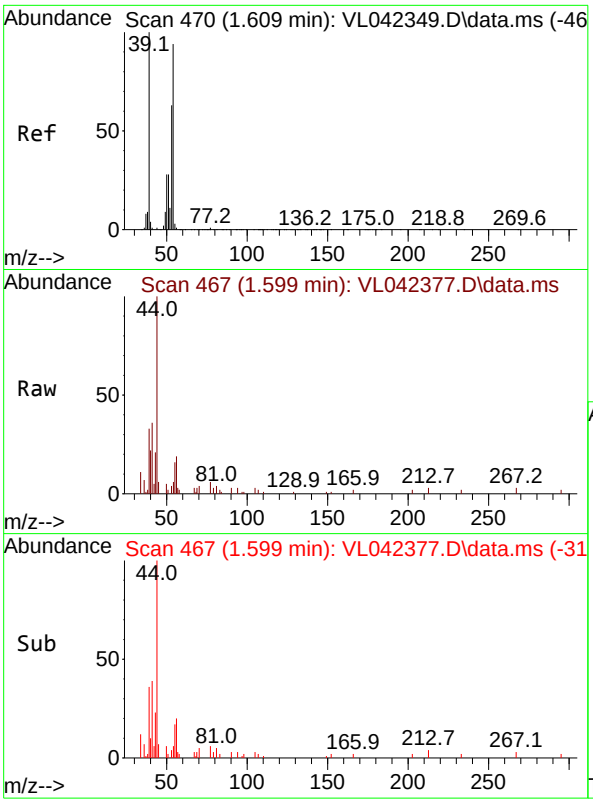


#15
Acetone
Concen: 16.568 ppbv
RT: 1.832 min Scan# 539
Delta R.T. -0.003 min
Lab File: VL042377.D
Acq: 18 Apr 2025 02:01

Tgt Ion: 43 Resp: 269648

Ion	Ratio	Lower	Upper
43	100		
58	27.0	22.4	33.6



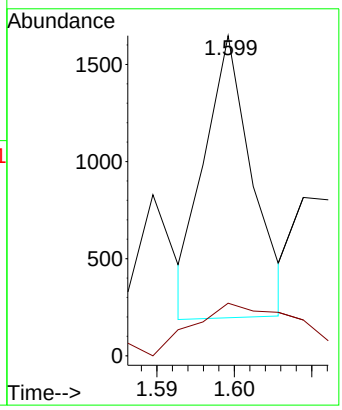


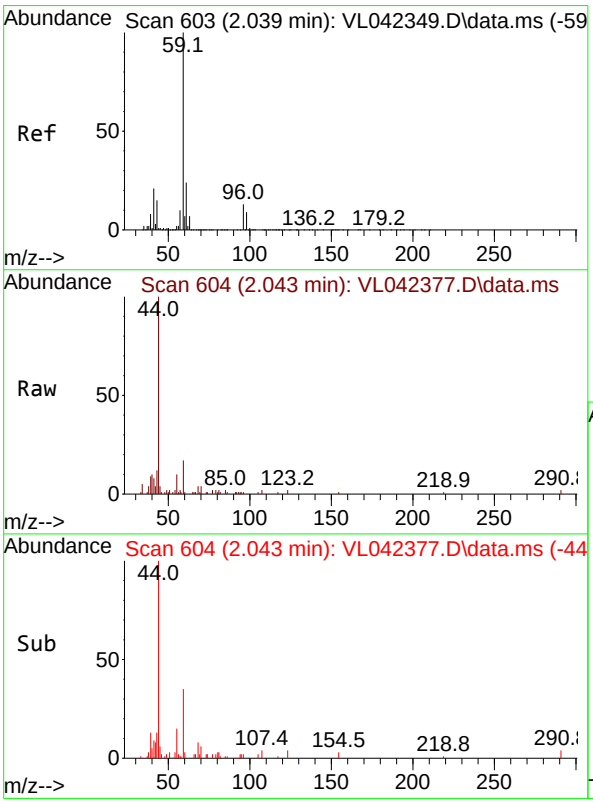
#16
1,3-Butadiene
Concen: 0.080 ppbv
RT: 1.599 min Scan# 4
Delta R.T. -0.010 min
Lab File: VL042377.D
Acq: 18 Apr 2025 02:01

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025DL

Tgt Ion: 39 Resp: 621

Ion	Ratio	Lower	Upper
39	100		
54	58.5	64.9	97.3#

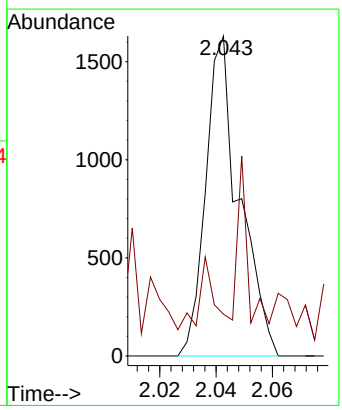


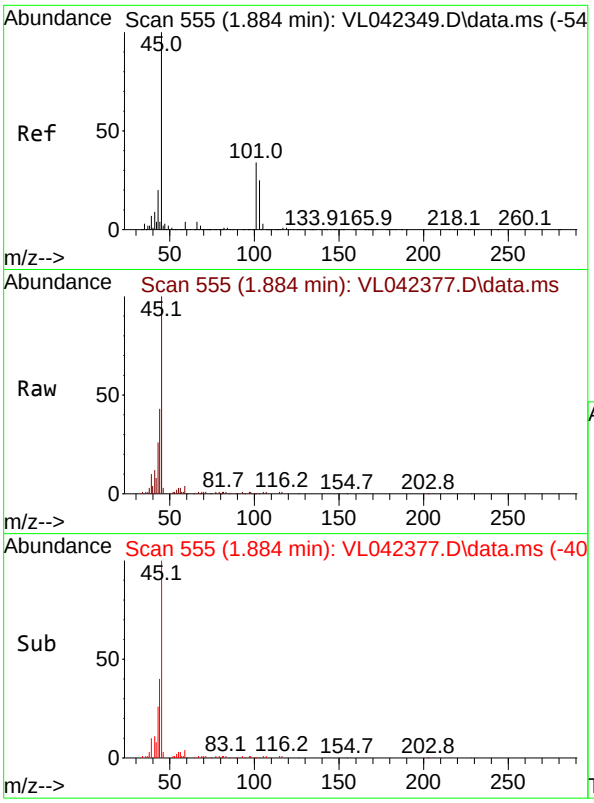


#17
tert-Butyl alcohol
Concen: 0.067 ppbv
RT: 2.043 min Scan# 604
Delta R.T. 0.003 min
Lab File: VL042377.D
Acq: 18 Apr 2025 02:01

Tgt Ion: 59 Resp: 1350

Ion	Ratio	Lower	Upper
59	100		
57	81.9	8.7	13.1#



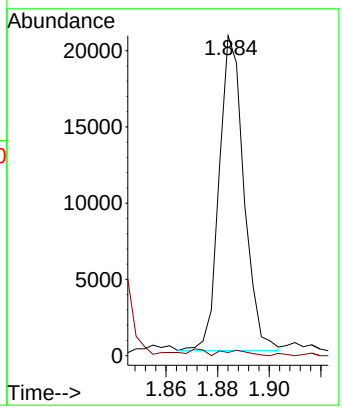


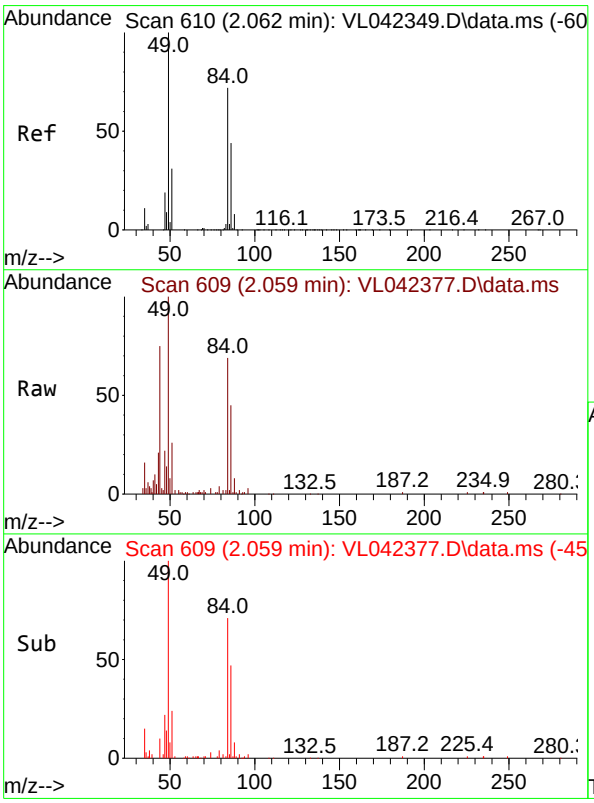
#19
Isopropyl Alcohol
Concen: 1.521 ppbv
RT: 1.884 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL042377.D
Acq: 18 Apr 2025 02:01

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025DL

Tgt Ion: 45 Resp: 13751

Ion	Ratio	Lower	Upper
45	100		
58	530.4	34.5	51.7#

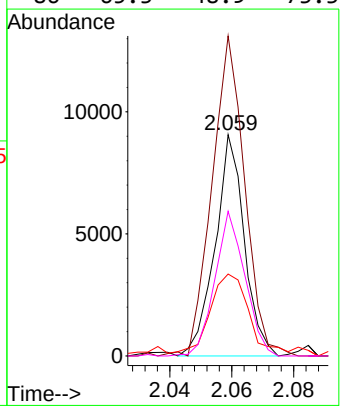


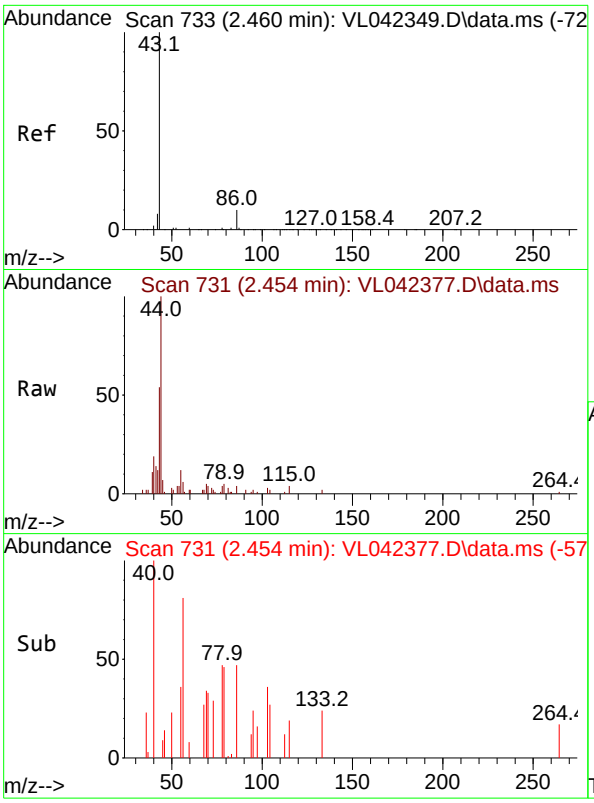


#20
Methylene Chloride
Concen: 0.933 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.003 min
Lab File: VL042377.D
Acq: 18 Apr 2025 02:01

Tgt Ion: 84 Resp: 5948

Ion	Ratio	Lower	Upper
84	100		
49	142.8	111.6	167.4
51	35.1	35.1	52.7#
86	65.3	48.9	73.3



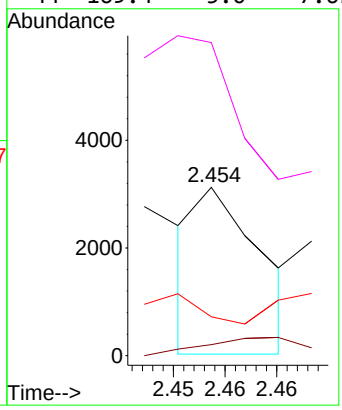


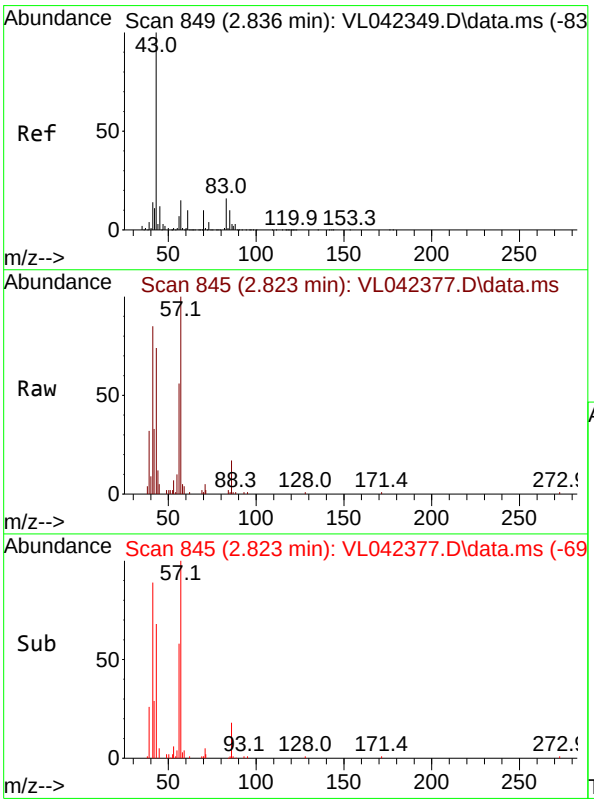
#23
Vinyl Acetate
Concen: 0.203 ppbv
RT: 2.454 min Scan# 7
Delta R.T. -0.006 min
Lab File: VL042377.D
Acq: 18 Apr 2025 02:01

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025DL

Tgt Ion: 43 Resp: 1337

Ion	Ratio	Lower	Upper
43	100		
86	5.5	6.5	9.7#
42	0.0	7.8	11.8#
44	169.4	5.0	7.6#

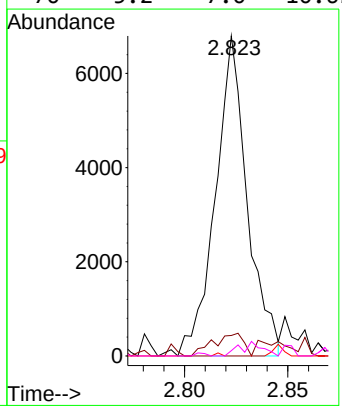


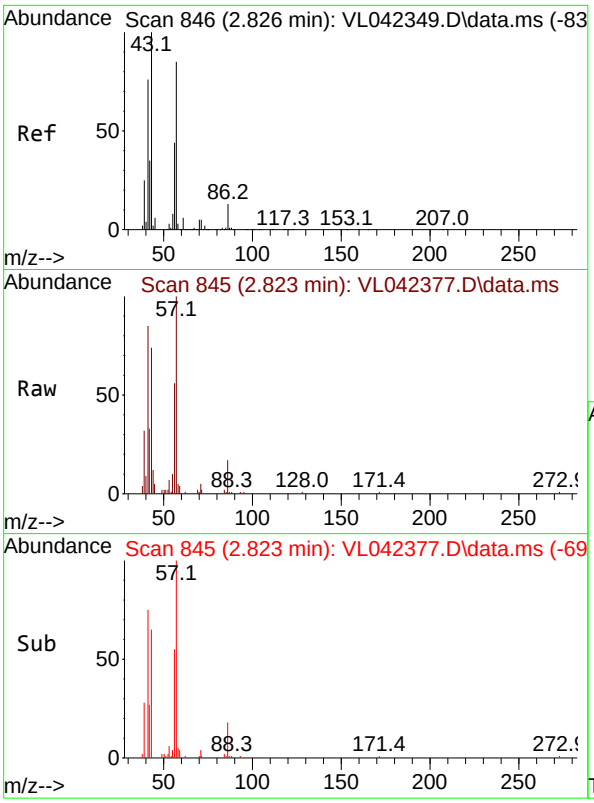


#25
Ethyl Acetate
Concen: 0.181 ppbv
RT: 2.823 min Scan# 845
Delta R.T. -0.013 min
Lab File: VL042377.D
Acq: 18 Apr 2025 02:01

Tgt Ion: 43 Resp: 7282

Ion	Ratio	Lower	Upper
43	100		
45	12.2	8.3	12.5
61	0.0	7.3	10.9#
70	5.2	7.0	10.6#



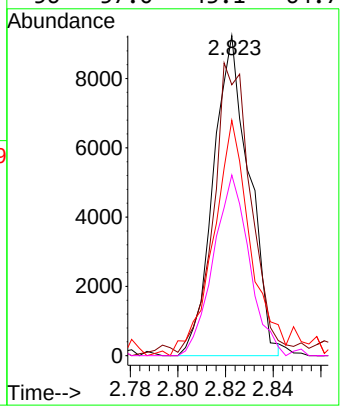


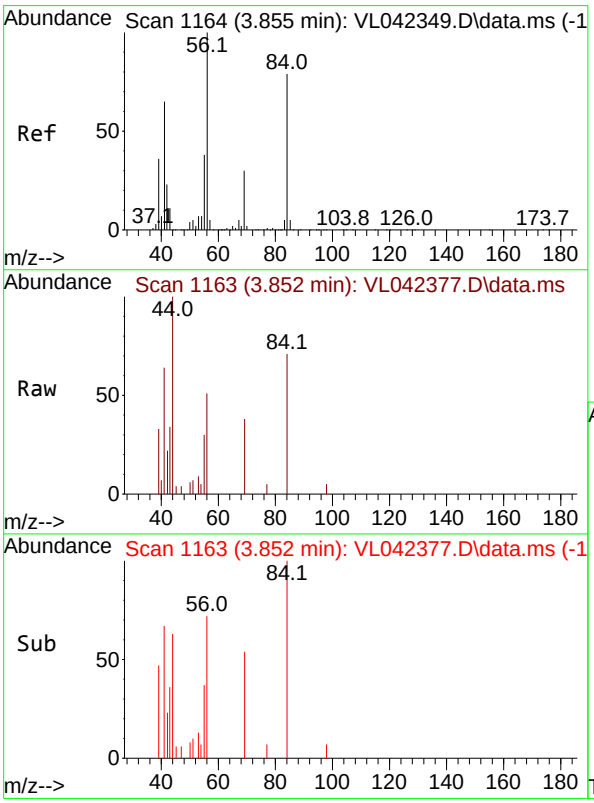
#26
Hexane
Concen: 0.595 ppbv
RT: 2.823 min Scan# 84
Delta R.T. -0.003 min
Lab File: VL042377.D
Acq: 18 Apr 2025 02:01

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025DL

Tgt Ion: 57 Resp: 9658

Ion	Ratio	Lower	Upper
57	100		
41	103.4	77.9	116.9
43	70.9	208.4	312.6#
56	57.0	43.1	64.7

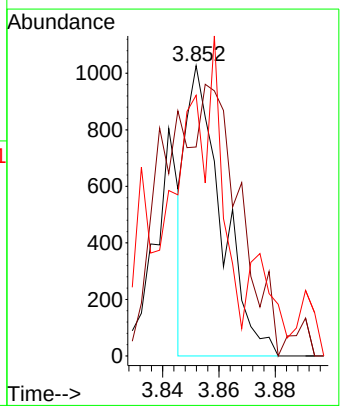


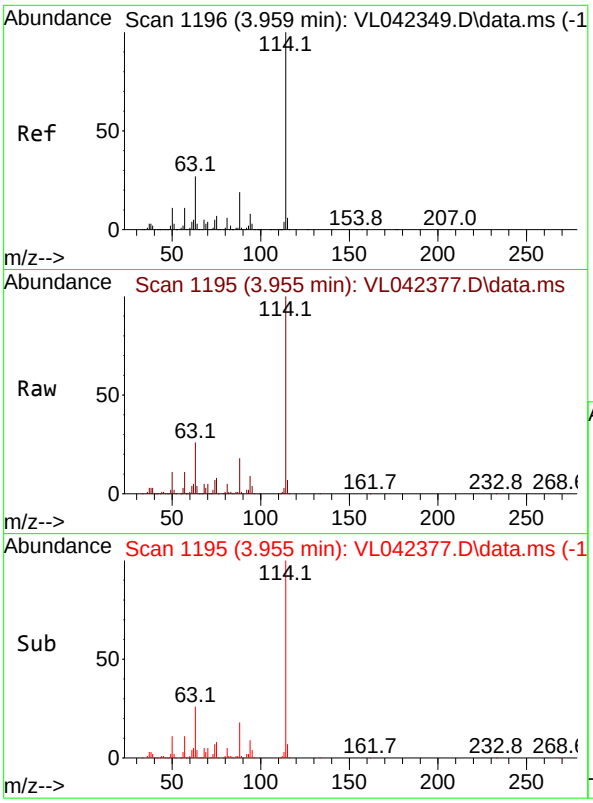


#30
Cyclohexane
Concen: 0.069 ppbv
RT: 3.852 min Scan# 1163
Delta R.T. -0.003 min
Lab File: VL042377.D
Acq: 18 Apr 2025 02:01

Tgt Ion: 84 Resp: 905

Ion	Ratio	Lower	Upper
84	100		
56	205.2	101.0	151.4#
41	184.3	67.4	101.0#



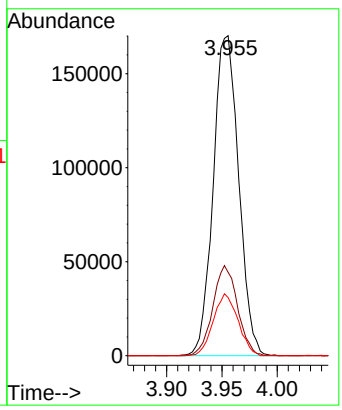


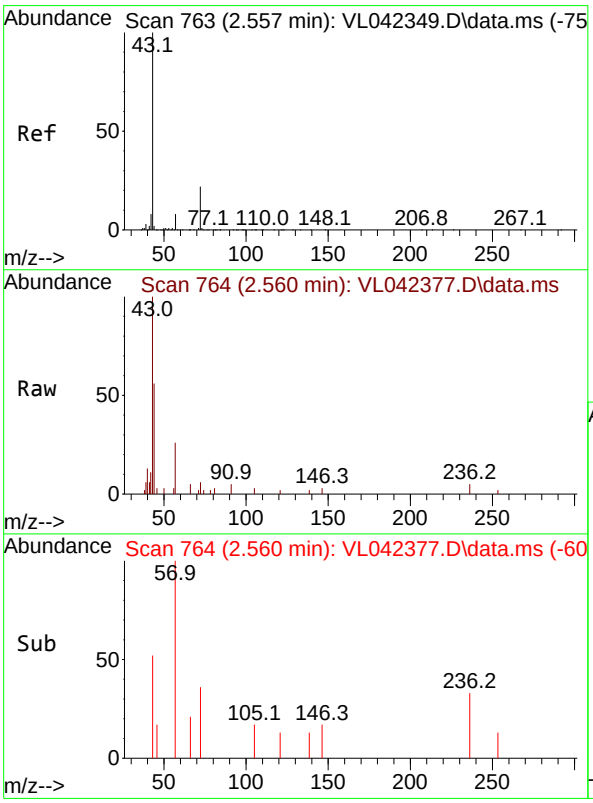
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.955 min Scan# 11
Delta R.T. -0.003 min
Lab File: VL042377.D
Acq: 18 Apr 2025 02:01

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025DL

Tgt Ion:114 Resp: 272592

Ion	Ratio	Lower	Upper
114	100		
63	27.3	21.8	32.6
88	18.8	15.5	23.3

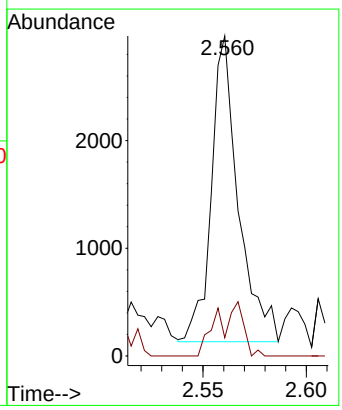


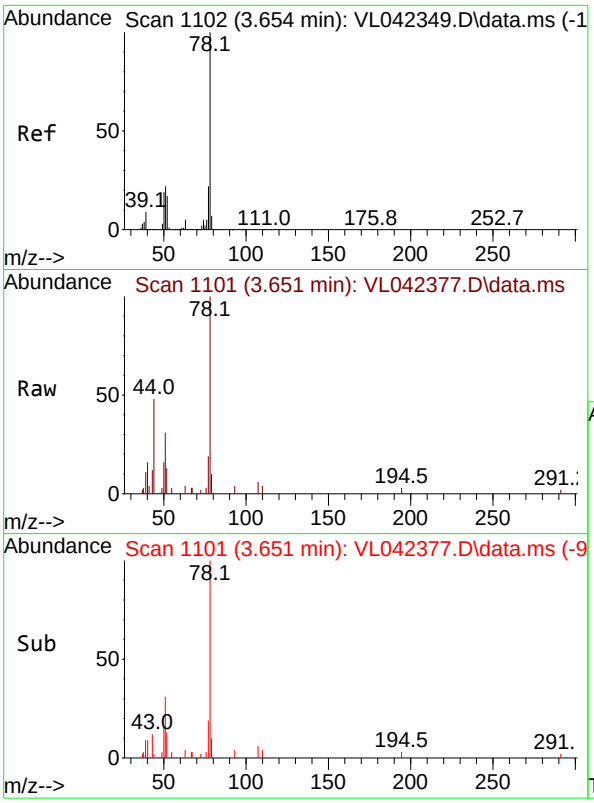


#34
2-Butanone
Concen: 0.120 ppbv
RT: 2.560 min Scan# 764
Delta R.T. 0.003 min
Lab File: VL042377.D
Acq: 18 Apr 2025 02:01

Tgt Ion: 43 Resp: 2582

Ion	Ratio	Lower	Upper
43	100		
72	17.0	18.2	27.2#



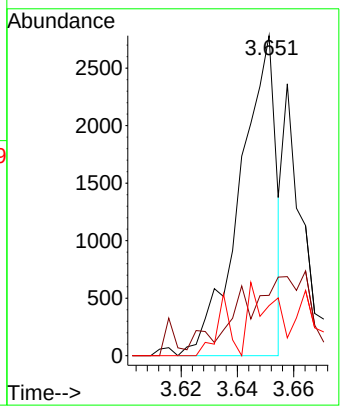


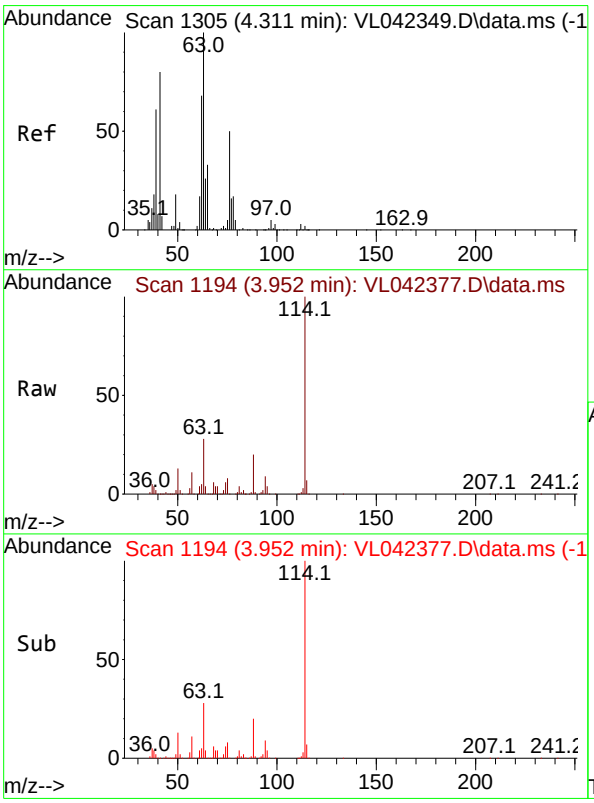
#36
Benzene
Concen: 0.084 ppbv
RT: 3.651 min Scan# 11
Delta R.T. -0.003 min
Lab File: VL042377.D
Acq: 18 Apr 2025 02:01

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025DL

Tgt Ion: 78 Resp: 2479

Ion	Ratio	Lower	Upper
78	100		
77	16.4	17.4	26.0#
50	15.7	15.5	23.3

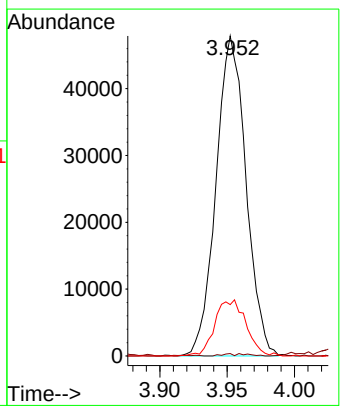


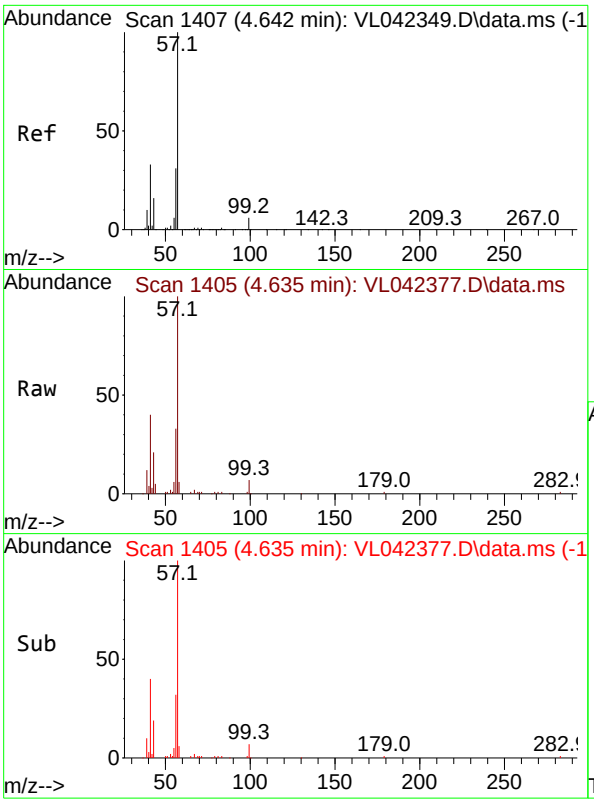


#39
1,2-Dichloropropane
Concen: 6.771 ppbv
RT: 3.952 min Scan# 1194
Delta R.T. -0.359 min
Lab File: VL042377.D
Acq: 18 Apr 2025 02:01

Tgt Ion: 63 Resp: 74190

Ion	Ratio	Lower	Upper
63	100		
41	0.6	64.2	96.2#
62	16.0	54.3	81.5#



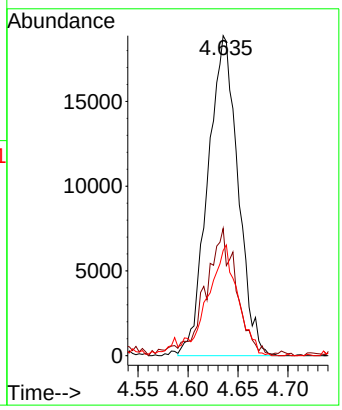


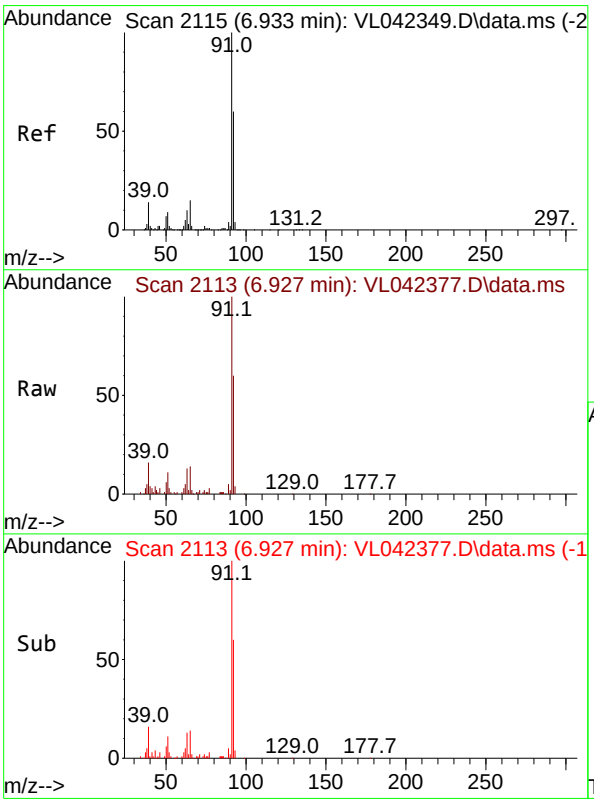
#44
2,2,4-Trimethylpentane
Concen: 0.782 ppbv
RT: 4.635 min Scan# 14
Delta R.T. -0.006 min
Lab File: VL042377.D
Acq: 18 Apr 2025 02:01

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025DL

Tgt Ion: 57 Resp: 39733

Ion	Ratio	Lower	Upper
57	100		
41	41.9	27.2	40.8#
56	36.0	25.7	38.5

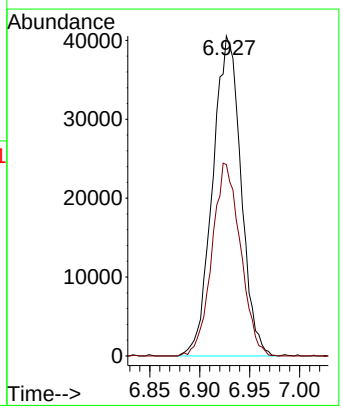


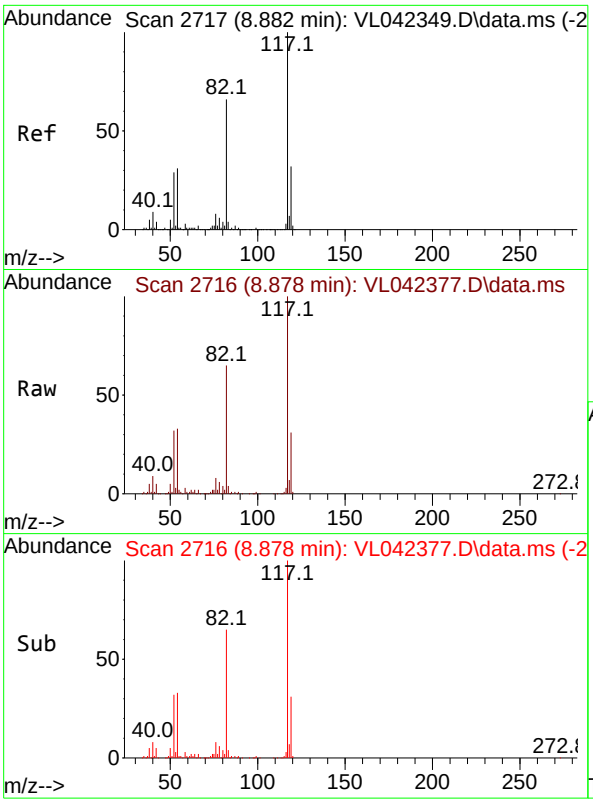


#53
Toluene
Concen: 2.264 ppbv
RT: 6.927 min Scan# 2113
Delta R.T. -0.006 min
Lab File: VL042377.D
Acq: 18 Apr 2025 02:01

Tgt Ion: 91 Resp: 79886

Ion	Ratio	Lower	Upper
91	100		
92	60.5	48.2	72.4



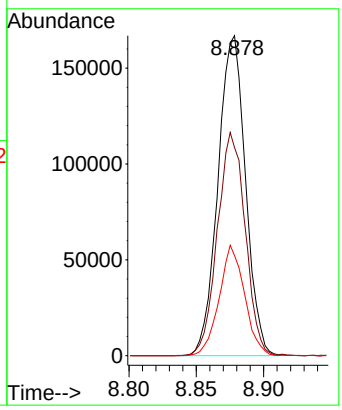


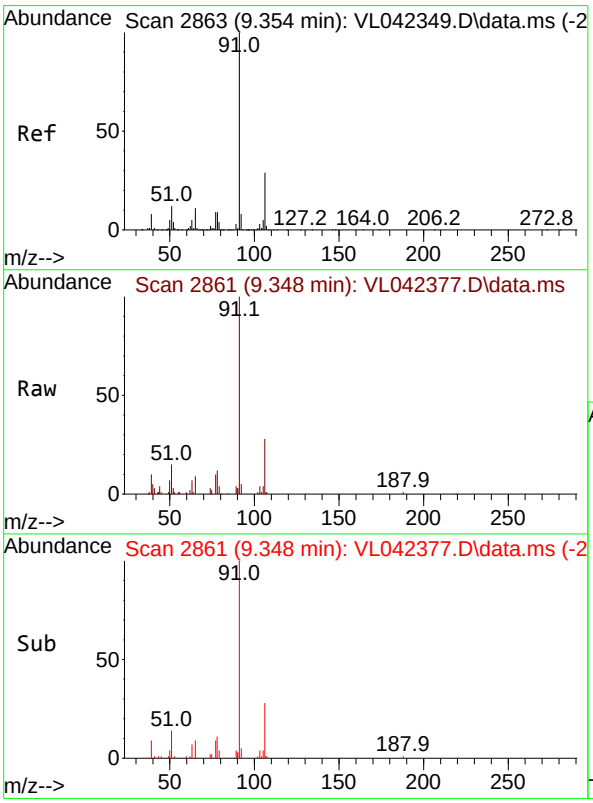
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.878 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL042377.D
Acq: 18 Apr 2025 02:01

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025DL

Tgt Ion:117 Resp: 237645

Ion	Ratio	Lower	Upper
117	100		
82	70.3	57.8	86.6
119	31.9	25.2	37.8

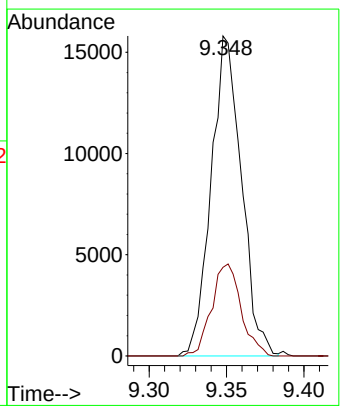


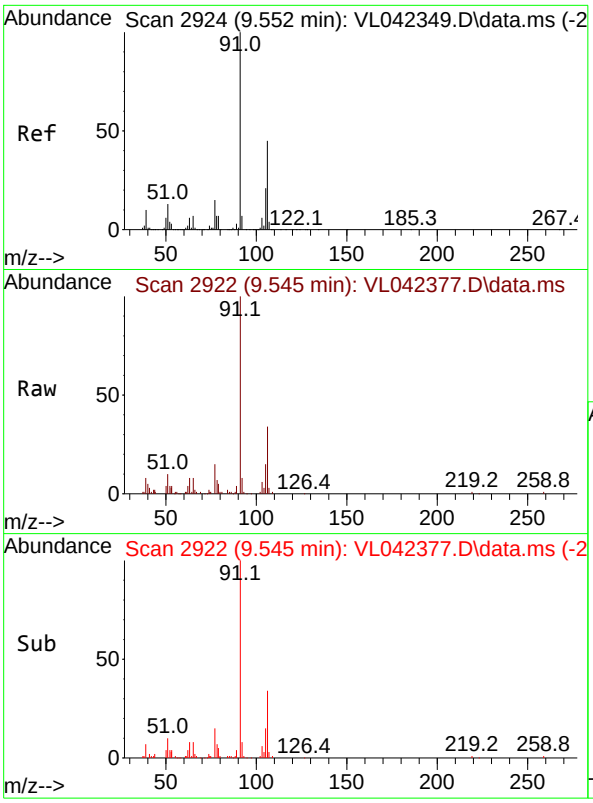


#58
Ethyl Benzene
Concen: 0.457 ppbv
RT: 9.348 min Scan# 2861
Delta R.T. -0.006 min
Lab File: VL042377.D
Acq: 18 Apr 2025 02:01

Tgt Ion: 91 Resp: 21503

Ion	Ratio	Lower	Upper
91	100		
106	27.7	23.0	34.4



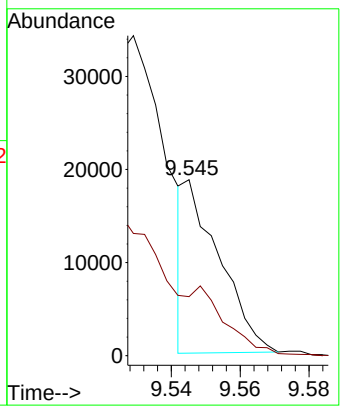


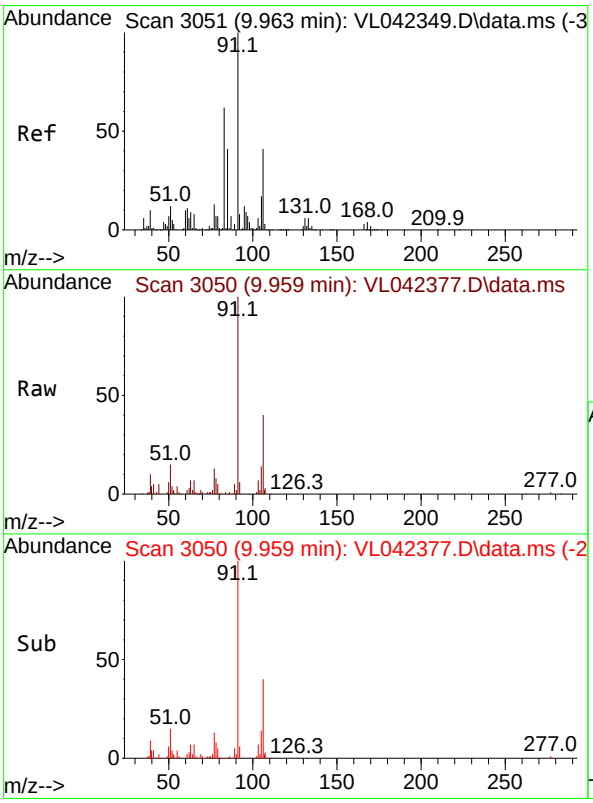
#59
m/p-Xylene
Concen: 0.349 ppbv
RT: 9.545 min Scan# 2
Delta R.T. -0.006 min
Lab File: VL042377.D
Acq: 18 Apr 2025 02:01

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025DL

Tgt Ion: 91 Resp: 13227

Ion	Ratio	Lower	Upper
91	100		
106	0.0	35.4	53.2#

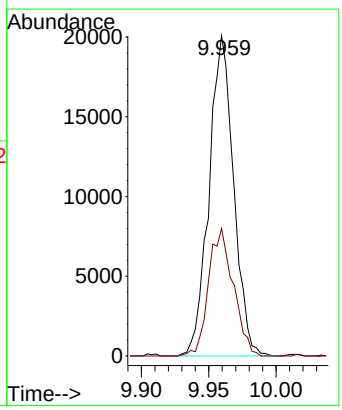


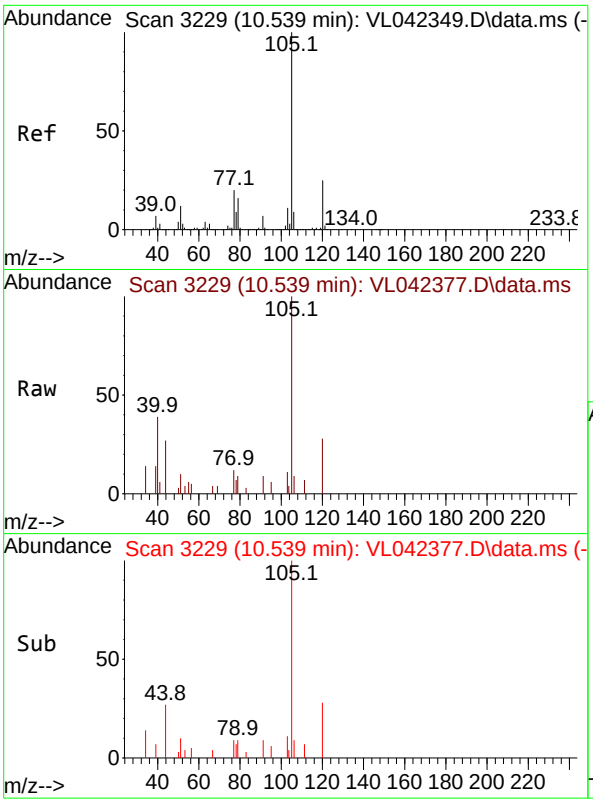


#60
o-Xylene
Concen: 0.668 ppbv
RT: 9.959 min Scan# 3050
Delta R.T. -0.003 min
Lab File: VL042377.D
Acq: 18 Apr 2025 02:01

Tgt Ion: 91 Resp: 25512

Ion	Ratio	Lower	Upper
91	100		
106	40.1	21.1	63.4



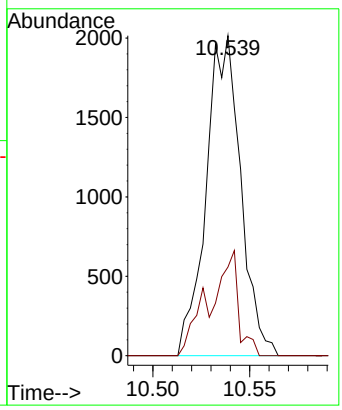


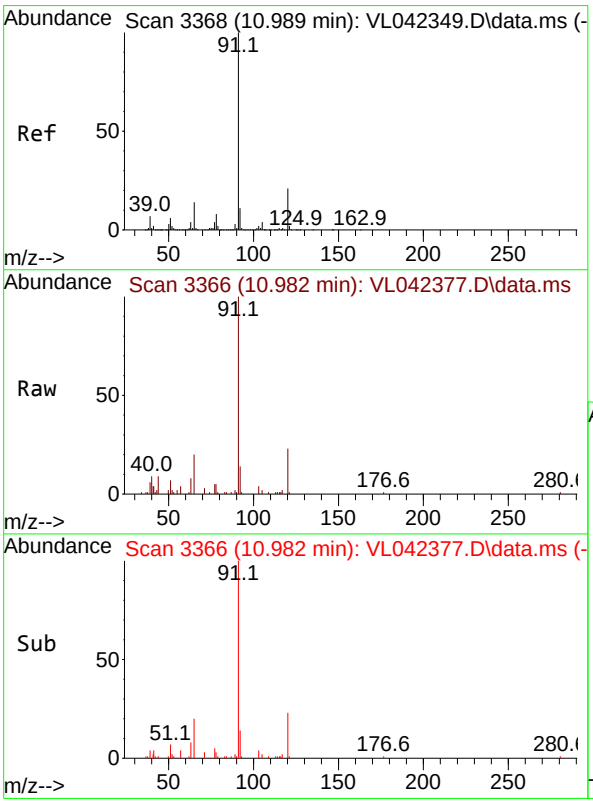
#62
Isopropylbenzene
Concen: 0.045 ppbv
RT: 10.539 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042377.D
Acq: 18 Apr 2025 02:01

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025DL

Tgt Ion:105 Resp: 2498

Ion	Ratio	Lower	Upper
105	100		
120	27.5	19.8	29.8

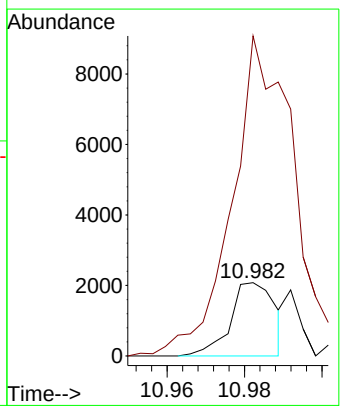


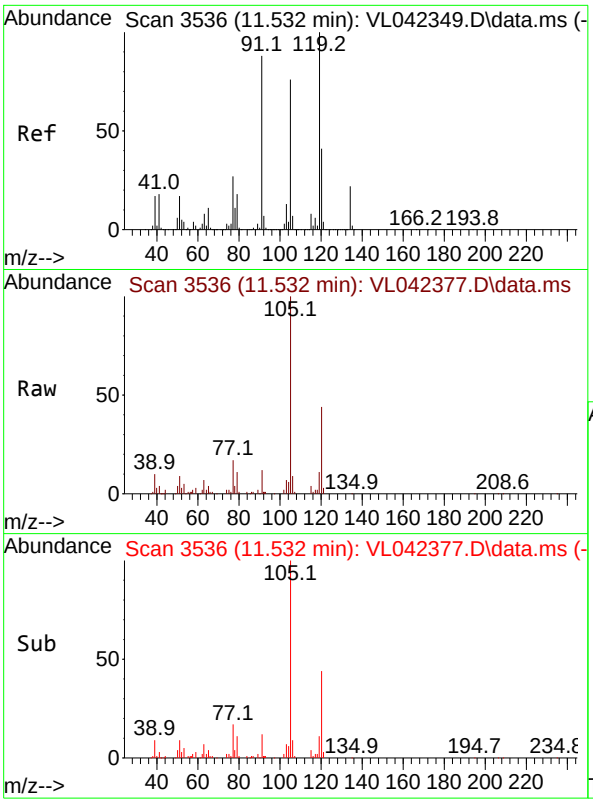


#64
n-propylbenzene
Concen: 0.118 ppbv
RT: 10.982 min Scan# 3366
Delta R.T. -0.006 min
Lab File: VL042377.D
Acq: 18 Apr 2025 02:01

Tgt Ion:120 Resp: 1664

Ion	Ratio	Lower	Upper
120	100		
91	607.5	392.4	588.6#



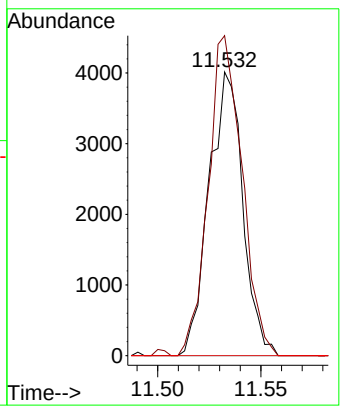


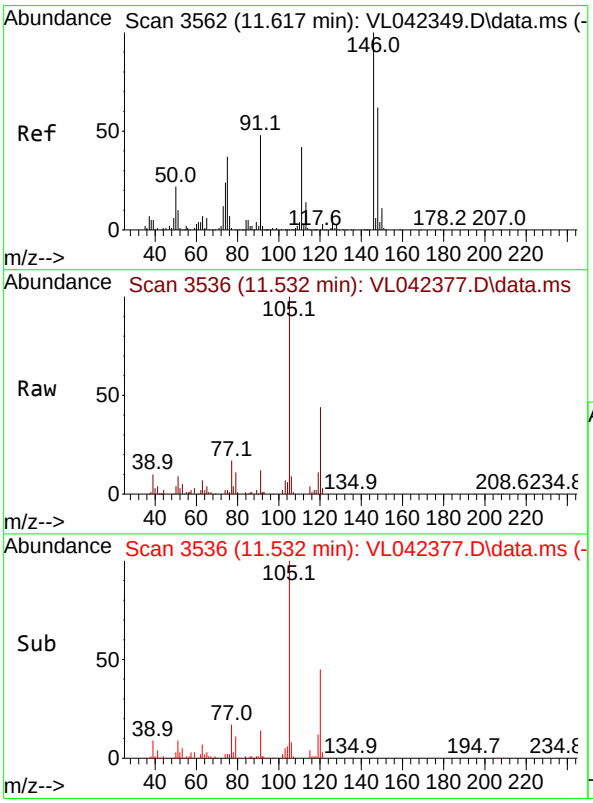
#65
tert-Butylbenzene
Concen: 0.089 ppbv
RT: 11.532 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042377.D
Acq: 18 Apr 2025 02:01

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025DL

Tgt Ion:119 Resp: 4564

Ion	Ratio	Lower	Upper
119	100		
91	113.5	74.6	111.8#
134	0.0	18.8	28.2#

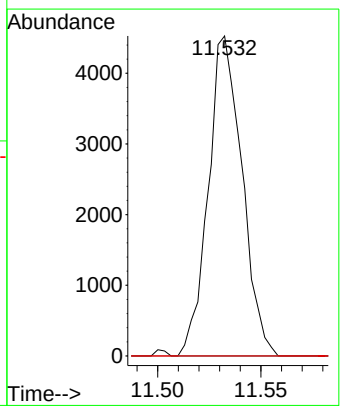


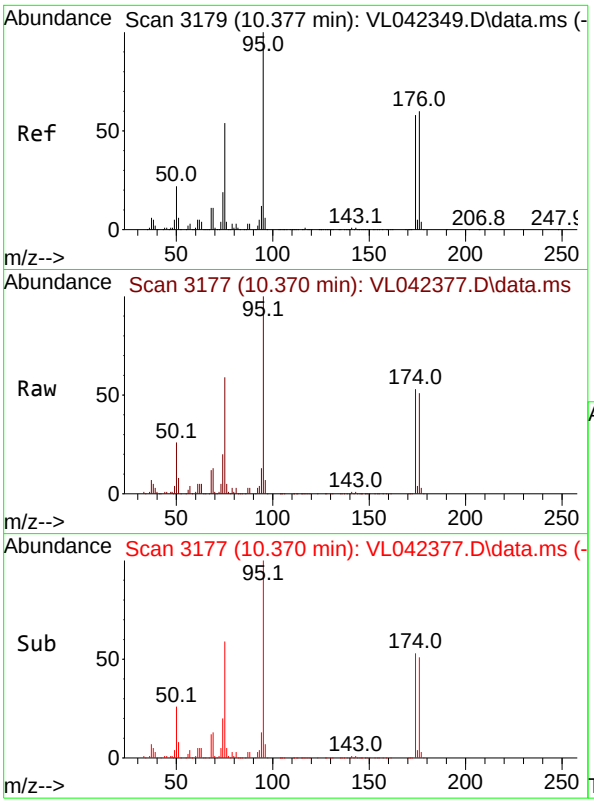


#66
Benzyl Chloride
Concen: 0.909 ppbv
RT: 11.532 min Scan# 3536
Delta R.T. -0.084 min
Lab File: VL042377.D
Acq: 18 Apr 2025 02:01

Tgt Ion: 91 Resp: 5150

Ion	Ratio	Lower	Upper
91	100		
126	0.0	11.8	17.6#
128	0.0	4.5	6.7#



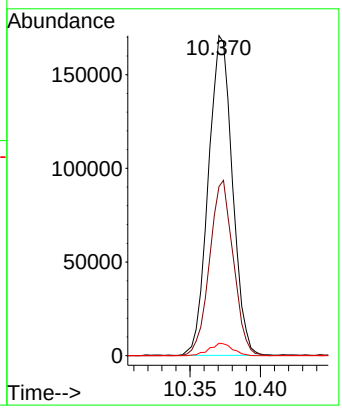


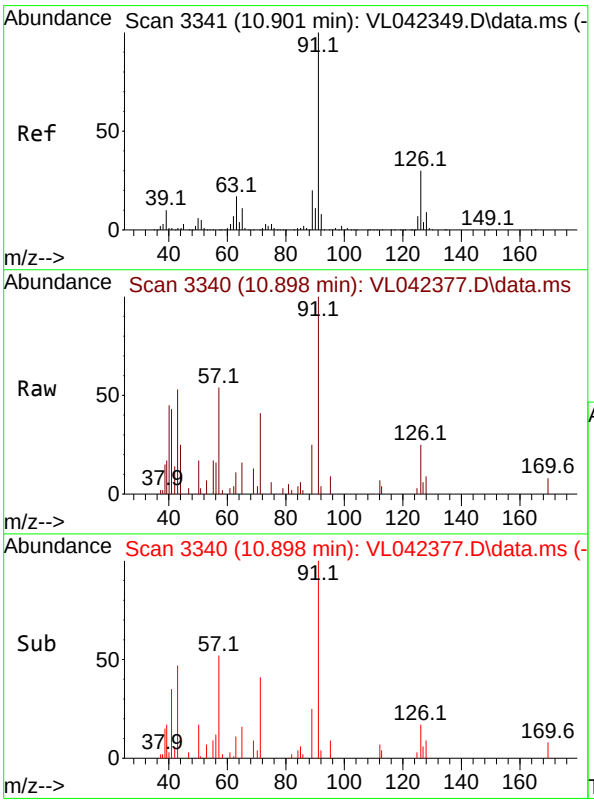
#68
1-Bromo-4-Fluorobenzene
Concen: 10.393 ppbv
RT: 10.370 min Scan# 3
Delta R.T. -0.006 min
Lab File: VL042377.D
Acq: 18 Apr 2025 02:01

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025DL

Tgt Ion: 95 Resp: 202954

Ion	Ratio	Lower	Upper
95	100		
174	54.2	48.5	72.7
175	3.8	3.7	5.5

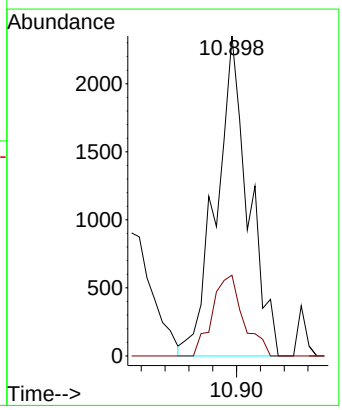


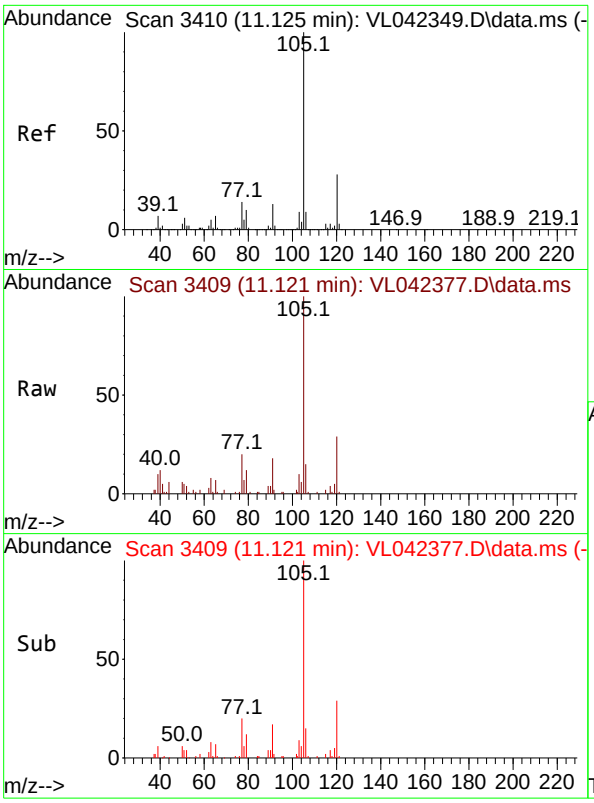


#71
2-Chlorotoluene
Concen: 0.050 ppbv
RT: 10.898 min Scan# 3340
Delta R.T. -0.003 min
Lab File: VL042377.D
Acq: 18 Apr 2025 02:01

Tgt Ion: 91 Resp: 2213

Ion	Ratio	Lower	Upper
91	100		
126	24.1	11.4	45.4



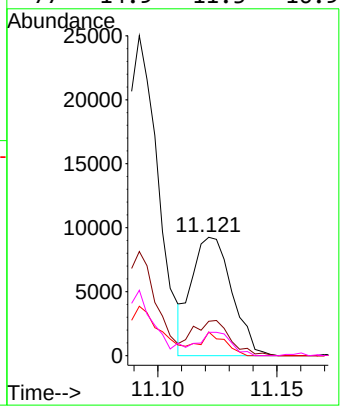


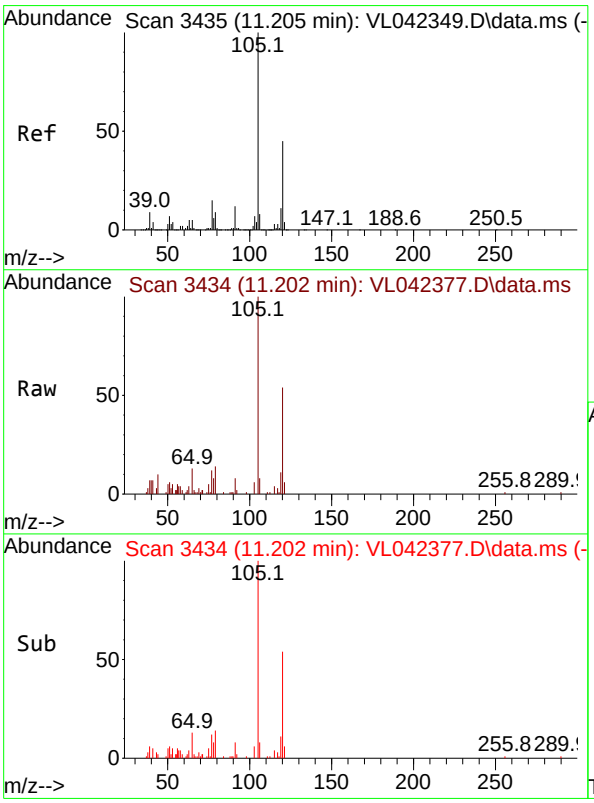
#72
4-Ethyltoluene
Concen: 0.234 ppbv
RT: 11.121 min Scan# 34
Delta R.T. -0.003 min
Lab File: VL042377.D
Acq: 18 Apr 2025 02:01

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025DL

Tgt Ion:105 Resp: 10921

Ion	Ratio	Lower	Upper
105	100		
120	0.0	23.2	34.8#
91	0.0	10.4	15.6#
77	14.9	11.3	16.9

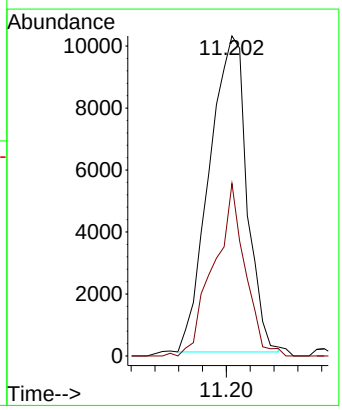


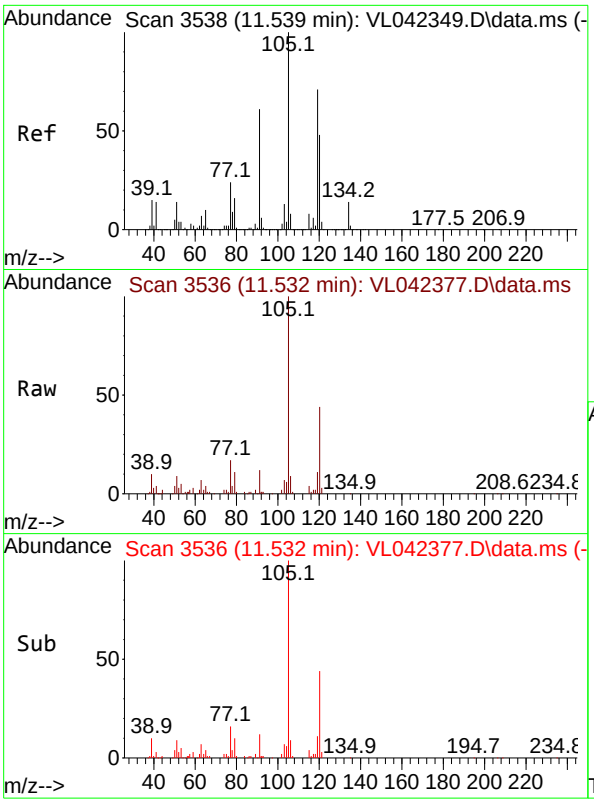


#73
1,3,5-Trimethylbenzene
Concen: 0.272 ppbv
RT: 11.202 min Scan# 3434
Delta R.T. -0.003 min
Lab File: VL042377.D
Acq: 18 Apr 2025 02:01

Tgt Ion:105 Resp: 11199

Ion	Ratio	Lower	Upper
105	100		
120	54.6	35.6	53.4#



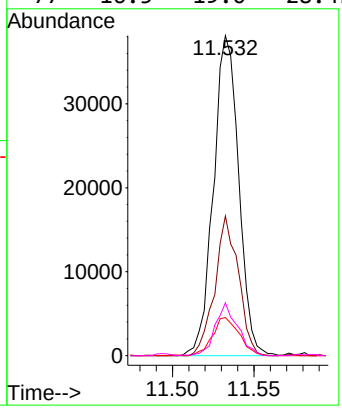


#74
1,2,4-Trimethylbenzene
Concen: 0.853 ppbv
RT: 11.532 min Scan# 3
Delta R.T. -0.006 min
Lab File: VL042377.D
Acq: 18 Apr 2025 02:01

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025DL

Tgt Ion:105 Resp: 41057

Ion	Ratio	Lower	Upper
105	100		
120	43.6	38.1	57.1
91	11.9	48.8	73.2#
77	16.5	19.0	28.4#



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042378.D
Acq On : 18 Apr 2025 02:32
Operator : SY/MD
Sample : Q1726-03DL 20X
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-2-03312025DL

Quant Time: Apr 18 04:40:41 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

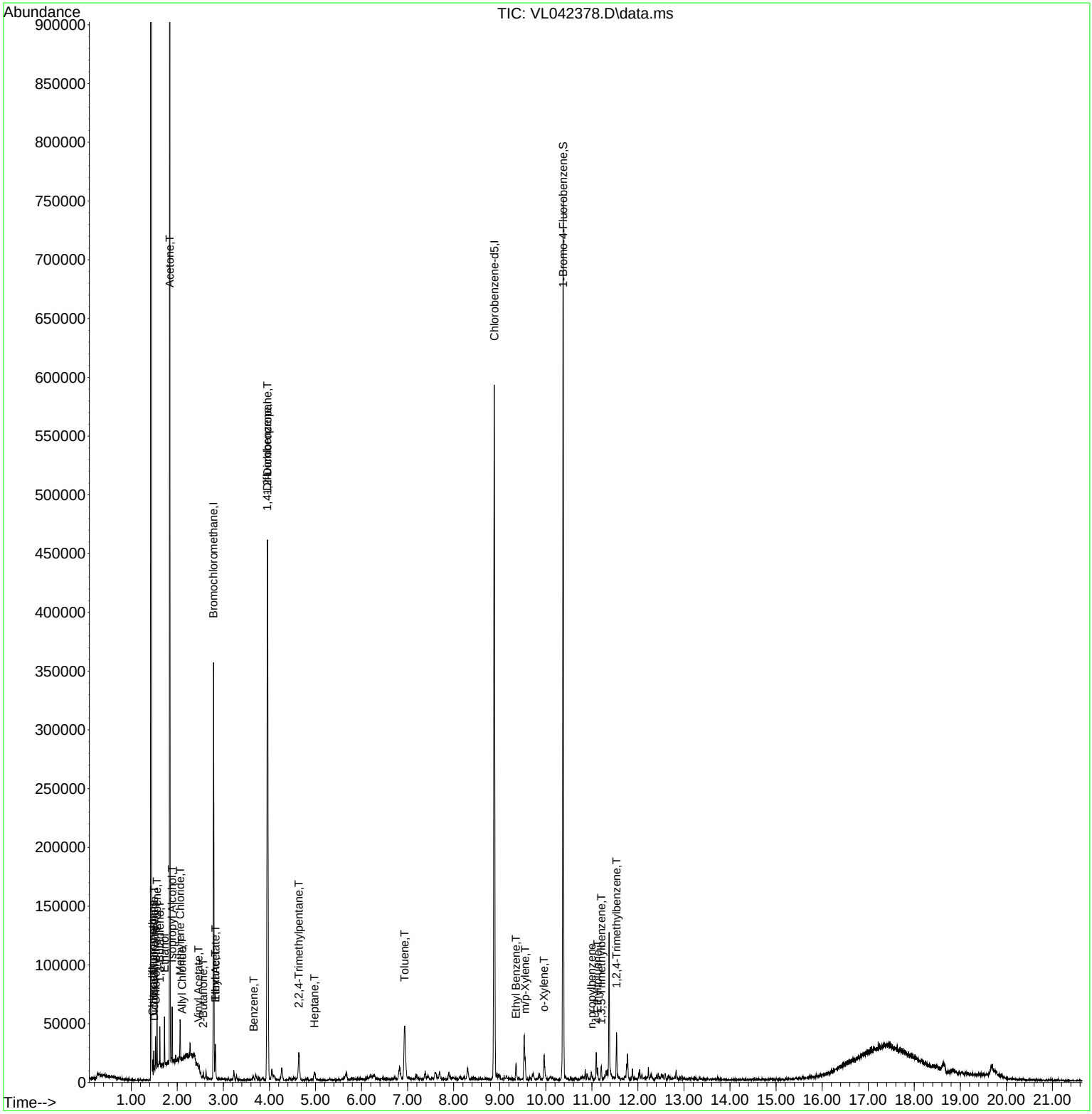
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.787	49	92120	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.955	114	265690	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.882	117	228865	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	194344	10.334	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 103.300%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	1037	0.064	ppbv #	72
3) Chlorodifluoromethane	1.466	51	3381	0.218	ppbv #	70
4) Chloromethane	1.531	50	967	0.150	ppbv #	76
9) Propene	1.560	41	6477	0.918	ppbv	88
10) Heptane	4.978	43	1262	0.064	ppbv #	1
13) Ethanol	1.722	45	14985	13.357	ppbv	75
15) Acetone	1.835	43	643033	42.641	ppbv	99
16) 1,3-Butadiene	1.622	39	1836	0.255	ppbv #	46
19) Isopropyl Alcohol	1.887	45	20625	2.462	ppbv #	1
20) Methylene Chloride	2.062	84	5194	0.879	ppbv #	76
21) Allyl Chloride	2.107	41	493	0.047	ppbv #	33
23) Vinyl Acetate	2.457	43	1310	0.215	ppbv #	42
25) Ethyl Acetate	2.829	43	5491	0.148	ppbv #	83
26) Hexane	2.826	57	7525	0.500	ppbv #	41
34) 2-Butanone	2.564	43	2187	0.104	ppbv	92
36) Benzene	3.658	78	1088	0.038	ppbv #	86
39) 1,2-Dichloropropane	3.959	63	72965	6.833	ppbv #	21
44) 2,2,4-Trimethylpentane	4.638	57	10536	0.213	ppbv #	39
53) Toluene	6.936	91	30658	0.891	ppbv	99
58) Ethyl Benzene	9.354	91	7859	0.173	ppbv	94
59) m/p-Xylene	9.552	91	4044	0.111	ppbv #	32
60) o-Xylene	9.963	91	8584	0.233	ppbv	97
64) n-propylbenzene	10.992	120	615	0.045	ppbv	72
72) 4-Ethyltoluene	11.125	105	4027	0.090	ppbv #	56
73) 1,3,5-Trimethylbenzene	11.209	105	2222	0.056	ppbv #	79
74) 1,2,4-Trimethylbenzene	11.536	105	13380	0.289	ppbv #	60

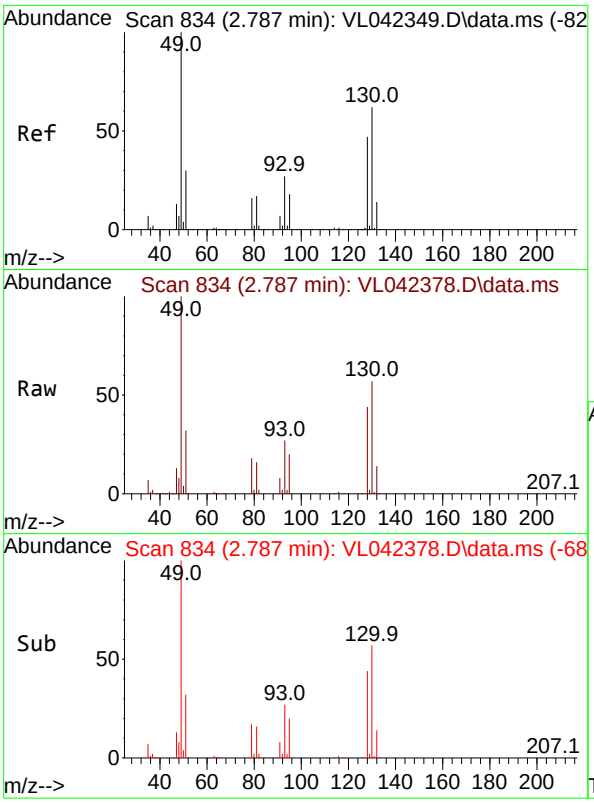
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042378.D
Acq On : 18 Apr 2025 02:32
Operator : SY/MD
Sample : Q1726-03DL 20X
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-2-03312025DL

Quant Time: Apr 18 04:40:41 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



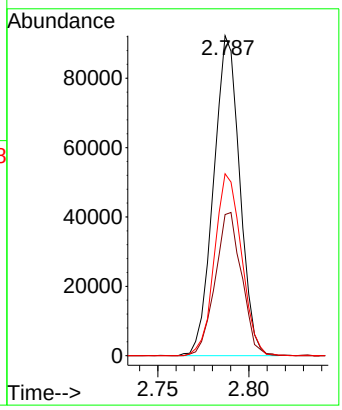


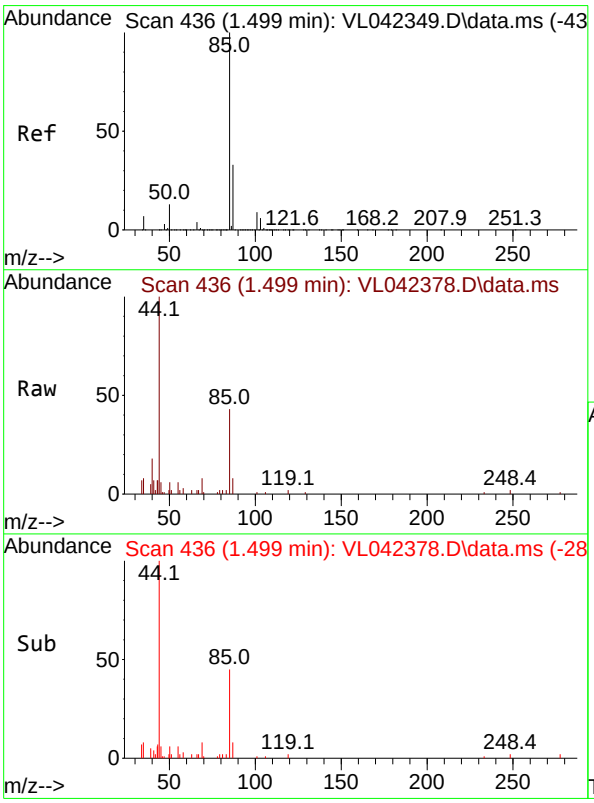
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL042378.D
Acq: 18 Apr 2025 02:32

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-2-03312025DL

Tgt Ion: 49 Resp: 92120

Ion	Ratio	Lower	Upper
49	100		
128	45.5	22.8	68.4
130	58.7	29.3	88.0

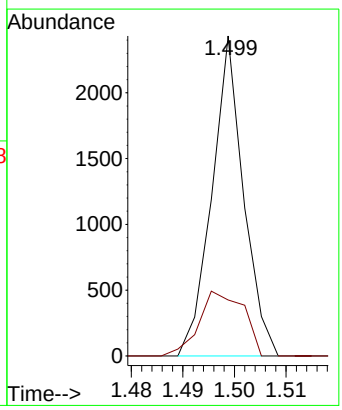


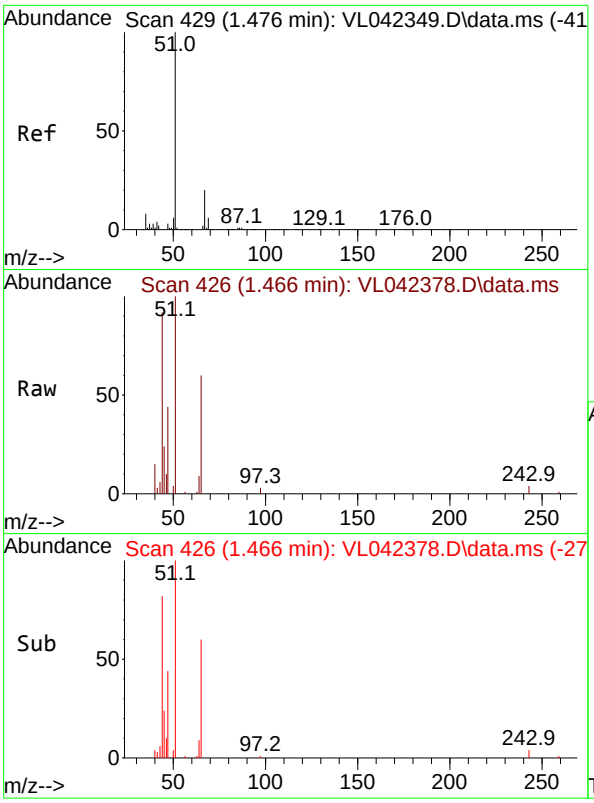


#2
Dichlorodifluoromethane
Concen: 0.064 ppbv
RT: 1.499 min Scan# 436
Delta R.T. -0.000 min
Lab File: VL042378.D
Acq: 18 Apr 2025 02:32

Tgt Ion: 85 Resp: 1037

Ion	Ratio	Lower	Upper
85	100		
87	17.5	26.6	39.8#



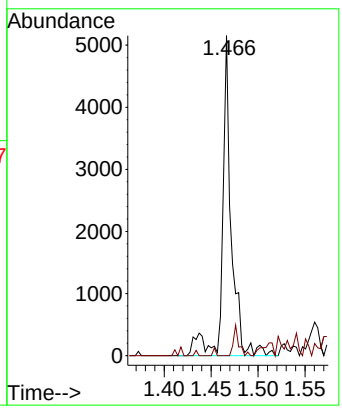


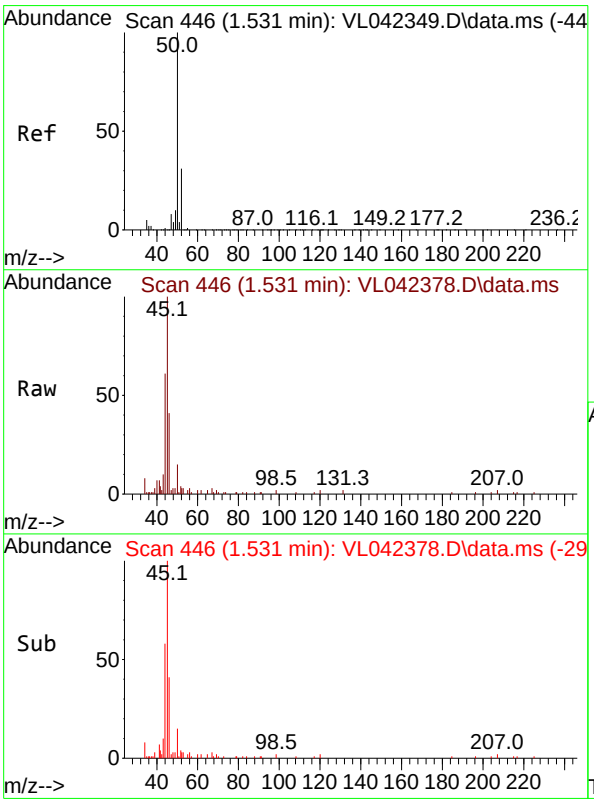
#3
Chlorodifluoromethane
Concen: 0.218 ppbv
RT: 1.466 min Scan# 4
Delta R.T. -0.010 min
Lab File: VL042378.D
Acq: 18 Apr 2025 02:32

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-2-03312025DL

Tgt Ion: 51 Resp: 3381

Ion	Ratio	Lower	Upper
51	100		
67	6.4	16.2	24.4#

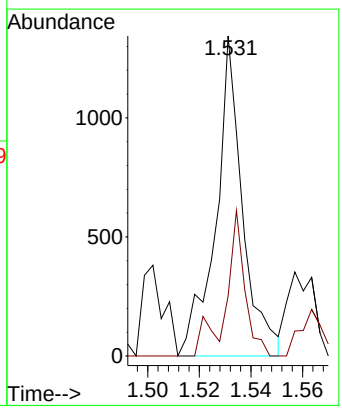


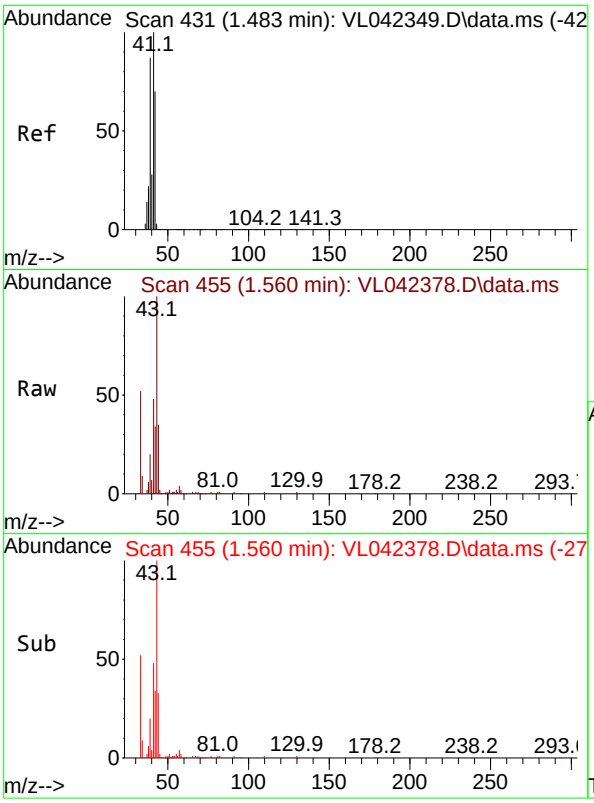


#4
Chloromethane
Concen: 0.150 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042378.D
Acq: 18 Apr 2025 02:32

Tgt Ion: 50 Resp: 967

Ion	Ratio	Lower	Upper
50	100		
52	17.5	24.7	37.1#



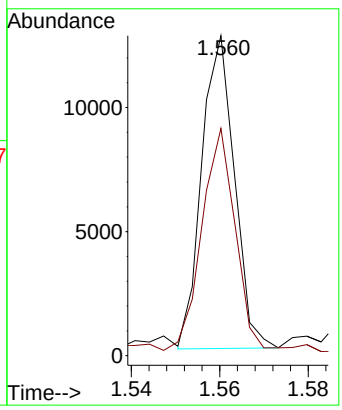


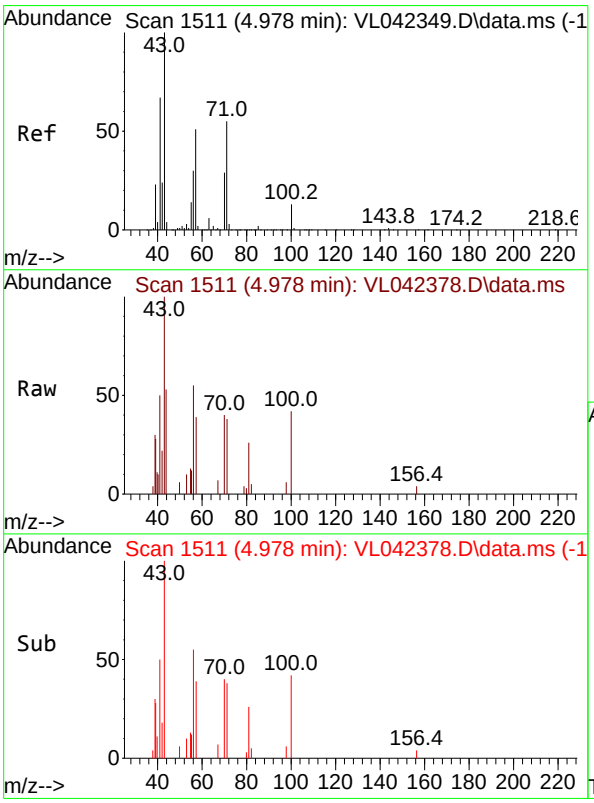
#9
Propene
Concen: 0.918 ppbv
RT: 1.560 min Scan# 4
Delta R.T. 0.078 min
Lab File: VL042378.D
Acq: 18 Apr 2025 02:32

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-2-03312025DL

Tgt Ion: 41 Resp: 6477

Ion	Ratio	Lower	Upper
41	100		
42	79.8	56.2	84.4

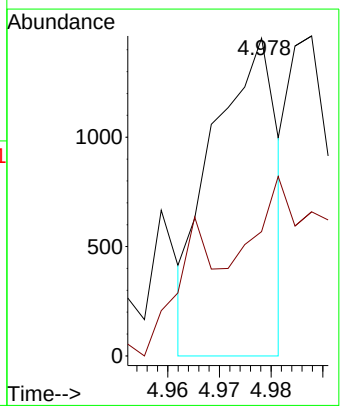


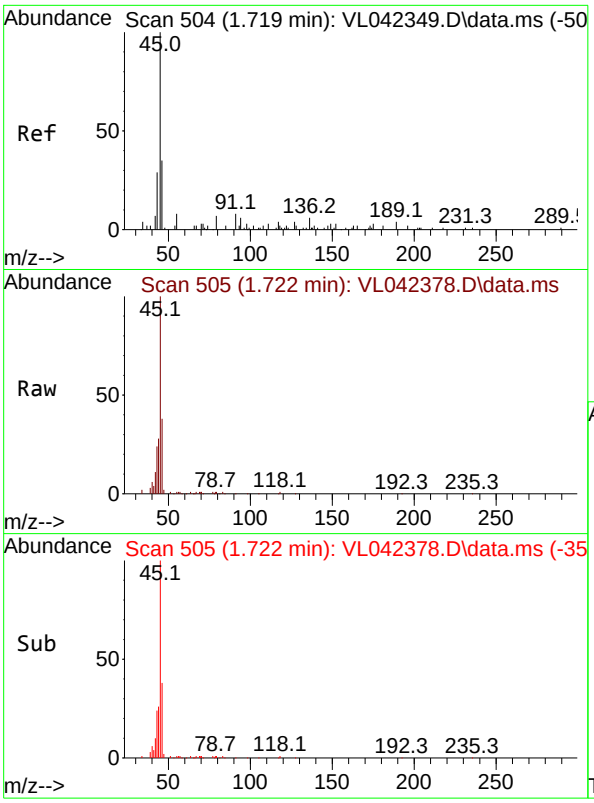


#10
Heptane
Concen: 0.064 ppbv
RT: 4.978 min Scan# 1511
Delta R.T. -0.000 min
Lab File: VL042378.D
Acq: 18 Apr 2025 02:32

Tgt Ion: 43 Resp: 1262

Ion	Ratio	Lower	Upper
43	100		
57	125.8	39.9	59.9#



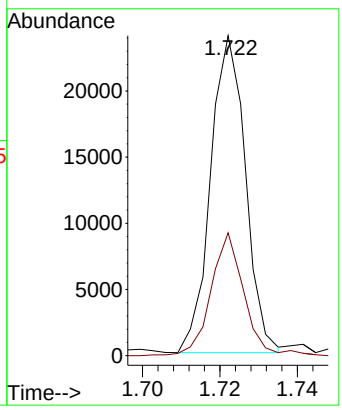


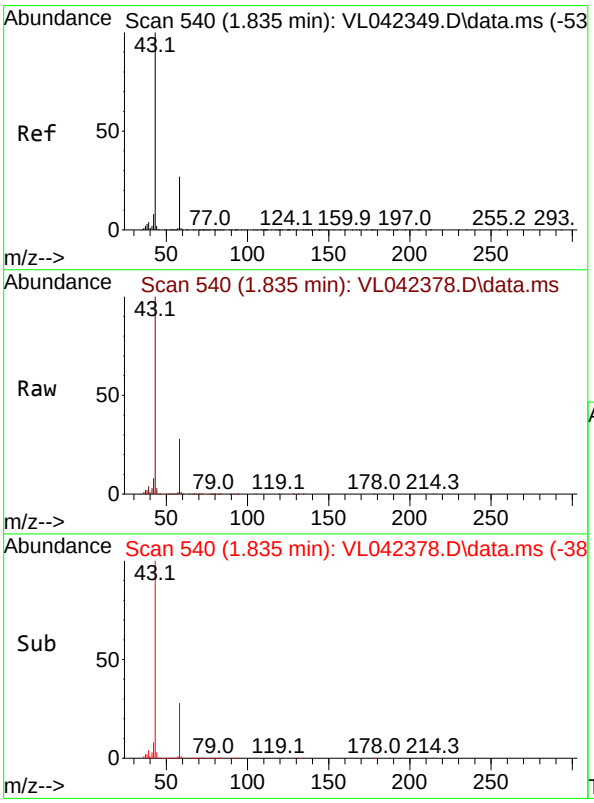
#13
Ethanol
Concen: 13.357 ppbv
RT: 1.722 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042378.D
Acq: 18 Apr 2025 02:32

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-2-03312025DL

Tgt Ion: 45 Resp: 14985

Ion	Ratio	Lower	Upper
45	100		
46	36.7	21.9	87.7

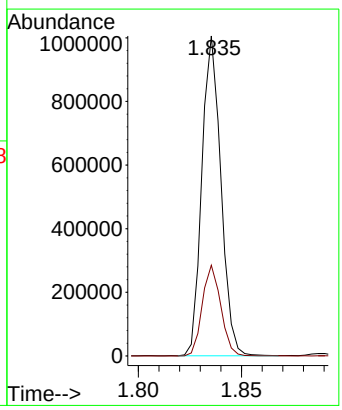


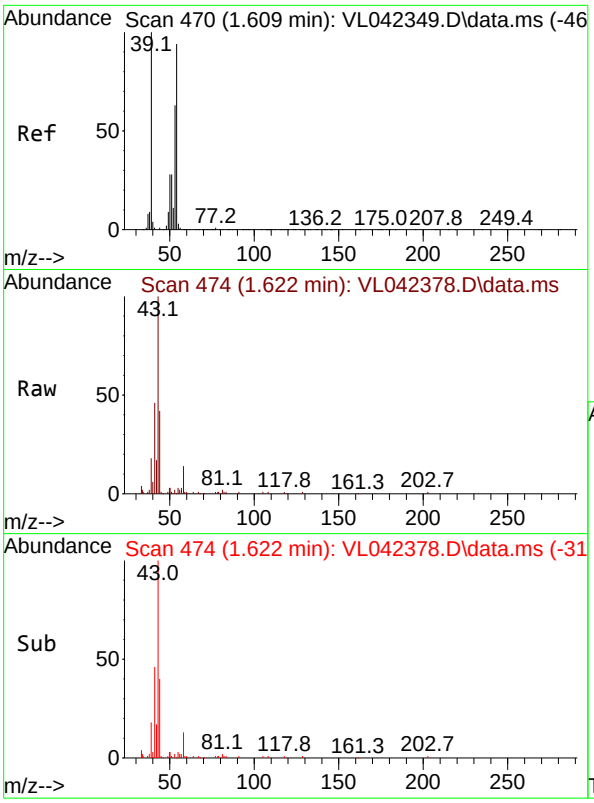


#15
Acetone
Concen: 42.641 ppbv
RT: 1.835 min Scan# 540
Delta R.T. -0.000 min
Lab File: VL042378.D
Acq: 18 Apr 2025 02:32

Tgt Ion: 43 Resp: 643033

Ion	Ratio	Lower	Upper
43	100		
58	27.6	22.4	33.6



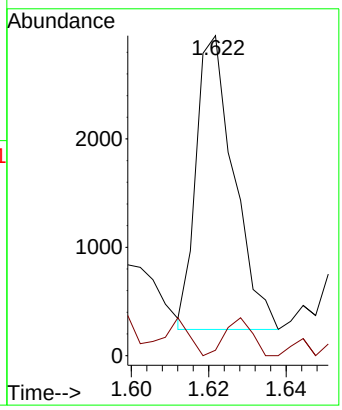


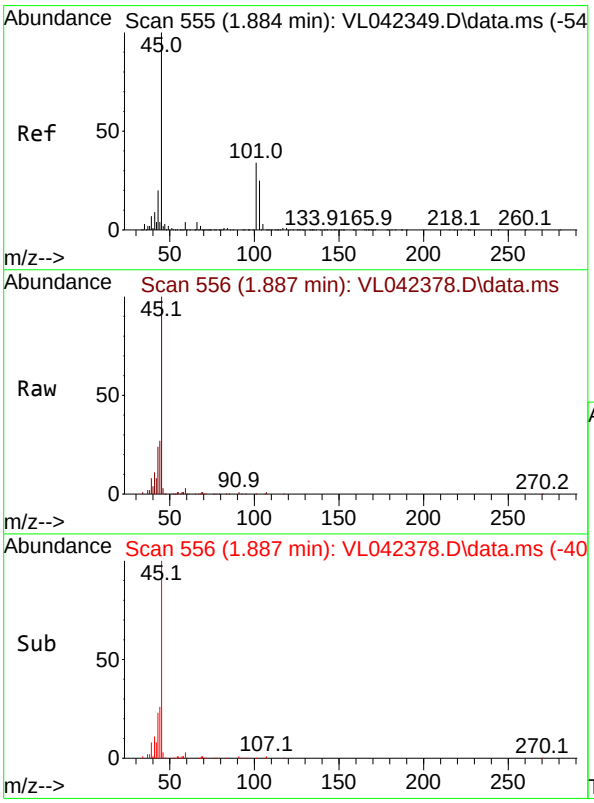
#16
1,3-Butadiene
Concen: 0.255 ppbv
RT: 1.622 min Scan# 4
Delta R.T. 0.013 min
Lab File: VL042378.D
Acq: 18 Apr 2025 02:32

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-2-03312025DL

Tgt Ion: 39 Resp: 1836

Ion	Ratio	Lower	Upper
39	100		
54	32.7	64.9	97.3#

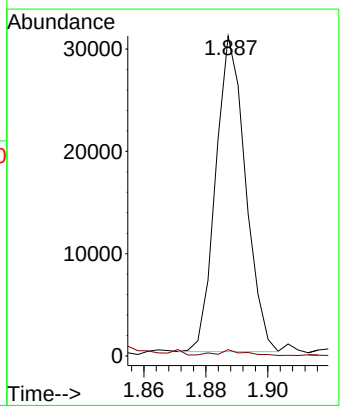


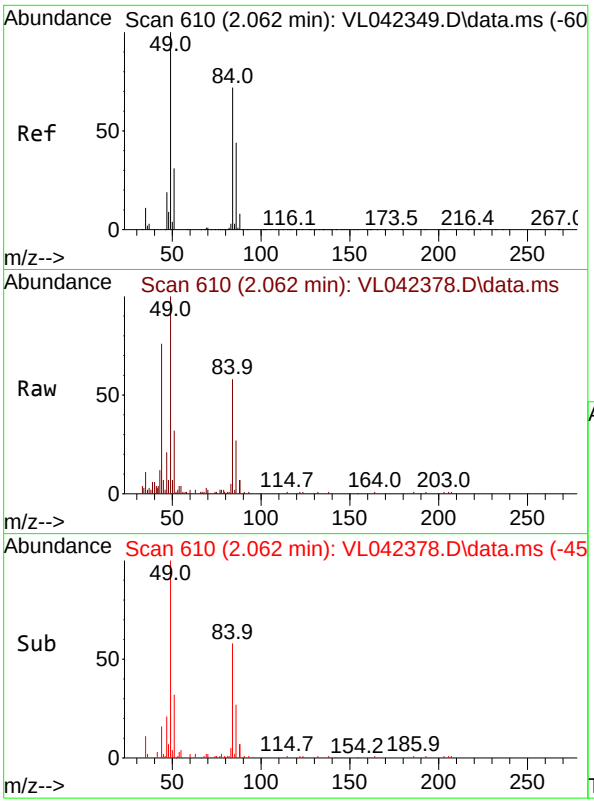


#19
Isopropyl Alcohol
Concen: 2.462 ppbv
RT: 1.887 min Scan# 556
Delta R.T. 0.003 min
Lab File: VL042378.D
Acq: 18 Apr 2025 02:32

Tgt Ion: 45 Resp: 20625

Ion	Ratio	Lower	Upper
45	100		
58	861.8	34.5	51.7#



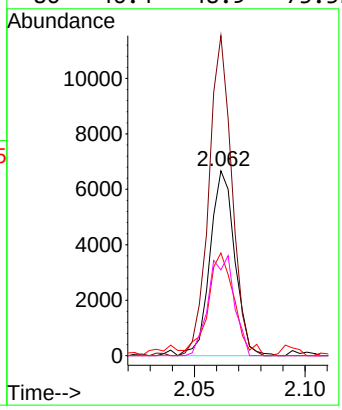


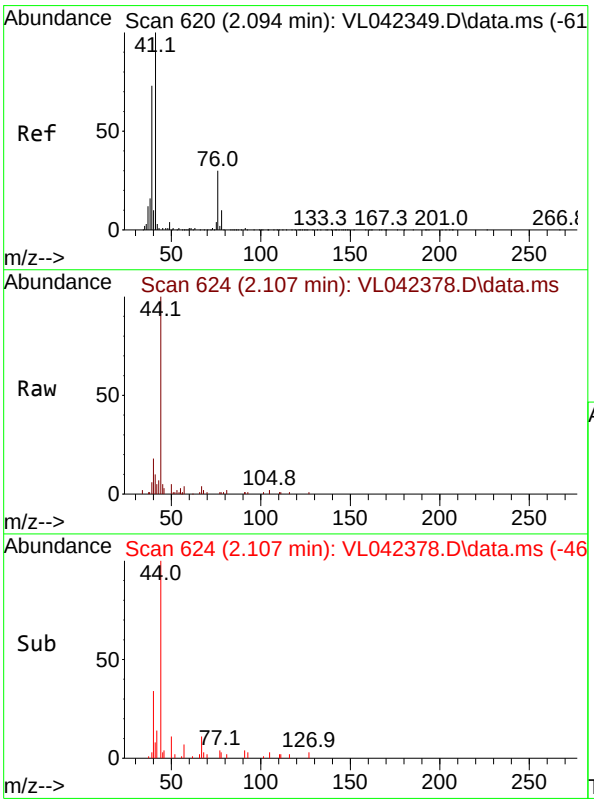
#20
Methylene Chloride
Concen: 0.879 ppbv
RT: 2.062 min Scan# 61
Delta R.T. -0.000 min
Lab File: VL042378.D
Acq: 18 Apr 2025 02:32

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-2-03312025DL

Tgt Ion: 84 Resp: 5194

Ion	Ratio	Lower	Upper
84	100		
49	173.1	111.6	167.4#
51	54.4	35.1	52.7#
86	46.4	48.9	73.3#

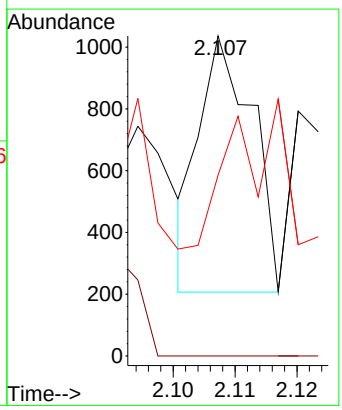


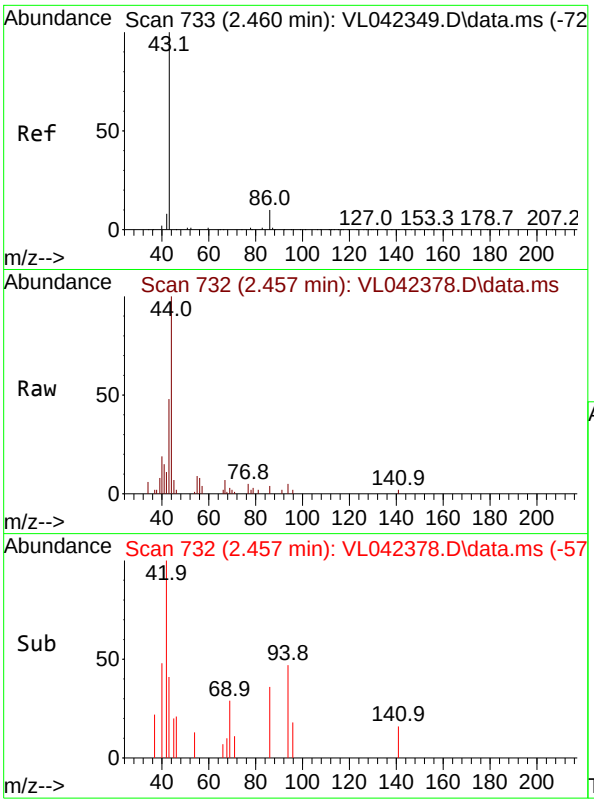


#21
Allyl Chloride
Concen: 0.047 ppbv
RT: 2.107 min Scan# 624
Delta R.T. 0.013 min
Lab File: VL042378.D
Acq: 18 Apr 2025 02:32

Tgt Ion: 41 Resp: 493

Ion	Ratio	Lower	Upper
41	100		
76	22.3	24.8	37.2#
39	0.0	60.6	90.8#



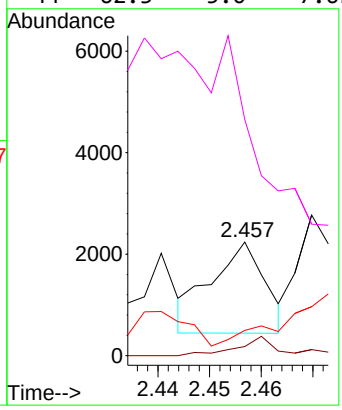


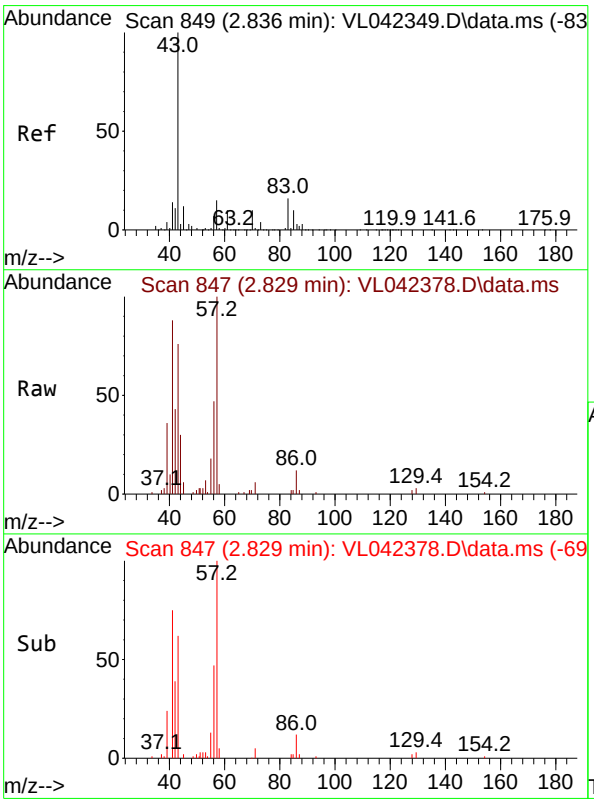
#23
Vinyl Acetate
Concen: 0.215 ppbv
RT: 2.457 min Scan# 7
Delta R.T. -0.003 min
Lab File: VL042378.D
Acq: 18 Apr 2025 02:32

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-2-03312025DL

Tgt Ion: 43 Resp: 1310

Ion	Ratio	Lower	Upper
43	100		
86	14.9	6.5	9.7#
42	2.0	7.8	11.8#
44	62.3	5.0	7.6#

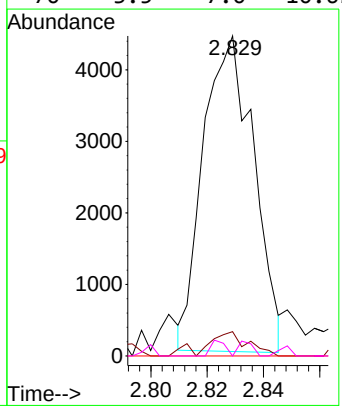


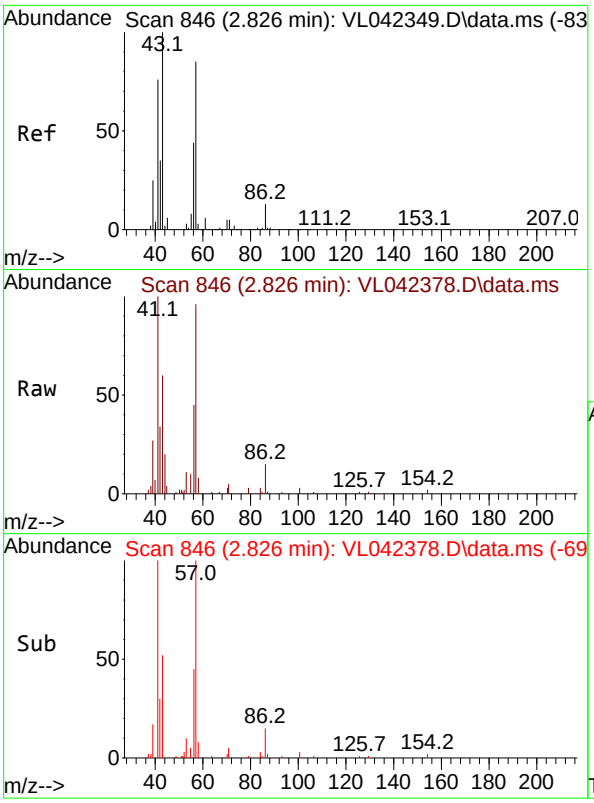


#25
Ethyl Acetate
Concen: 0.148 ppbv
RT: 2.829 min Scan# 847
Delta R.T. -0.006 min
Lab File: VL042378.D
Acq: 18 Apr 2025 02:32

Tgt Ion: 43 Resp: 5491

Ion	Ratio	Lower	Upper
43	100		
45	6.4	8.3	12.5#
61	0.0	7.3	10.9#
70	3.5	7.0	10.6#



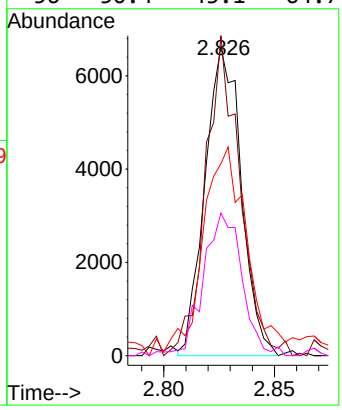


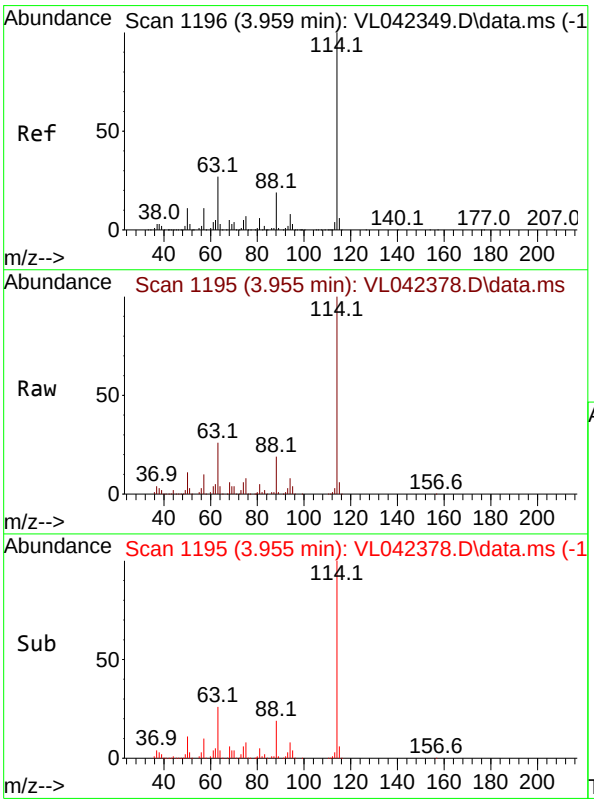
#26
Hexane
Concen: 0.500 ppbv
RT: 2.826 min Scan# 84
Delta R.T. -0.000 min
Lab File: VL042378.D
Acq: 18 Apr 2025 02:32

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-2-03312025DL

Tgt Ion: 57 Resp: 7525

Ion	Ratio	Lower	Upper
57	100		
41	102.4	77.9	116.9
43	97.5	208.4	312.6#
56	50.4	43.1	64.7

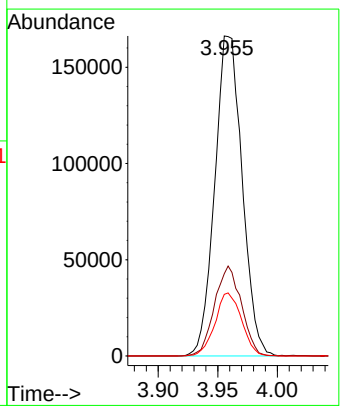


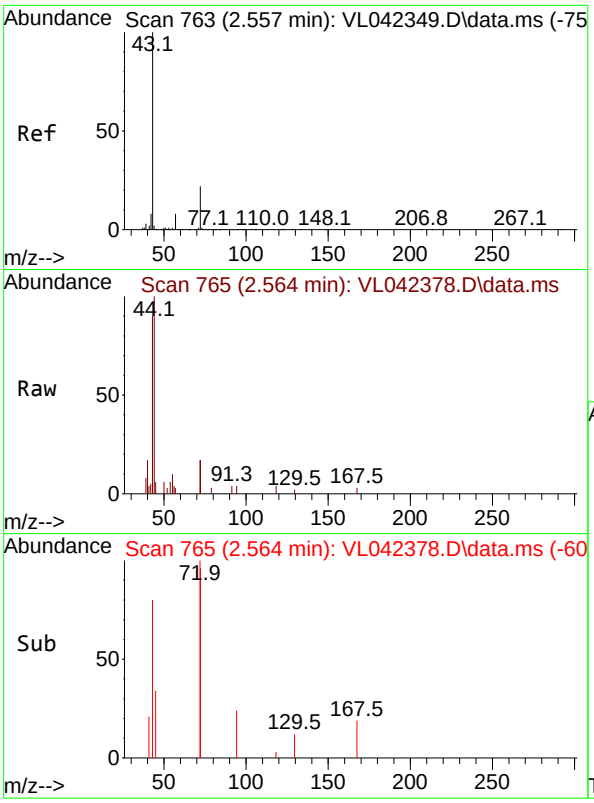


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.955 min Scan# 1195
Delta R.T. -0.003 min
Lab File: VL042378.D
Acq: 18 Apr 2025 02:32

Tgt Ion:114 Resp: 265690

Ion	Ratio	Lower	Upper
114	100		
63	27.5	21.8	32.6
88	19.1	15.5	23.3



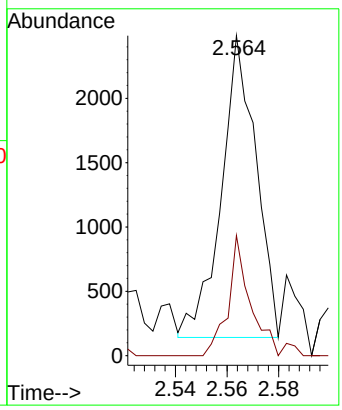


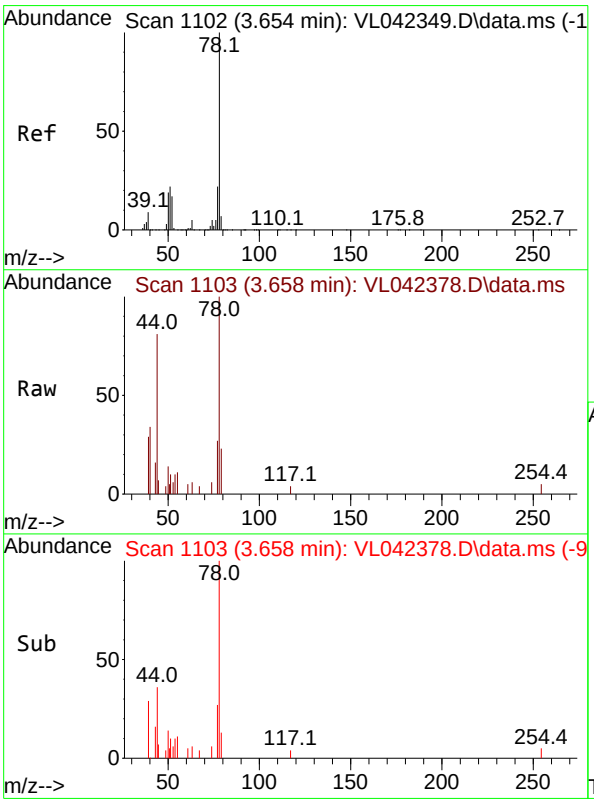
#34
2-Butanone
Concen: 0.104 ppbv
RT: 2.564 min Scan# 7
Delta R.T. 0.006 min
Lab File: VL042378.D
Acq: 18 Apr 2025 02:32

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-2-03312025DL

Tgt Ion: 43 Resp: 2187

Ion	Ratio	Lower	Upper
43	100		
72	26.7	18.2	27.2

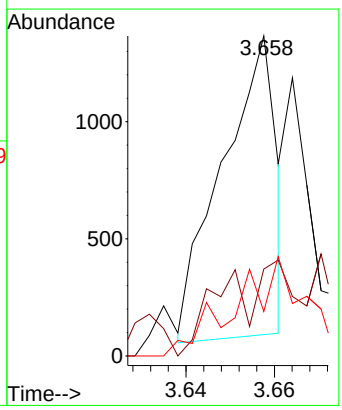


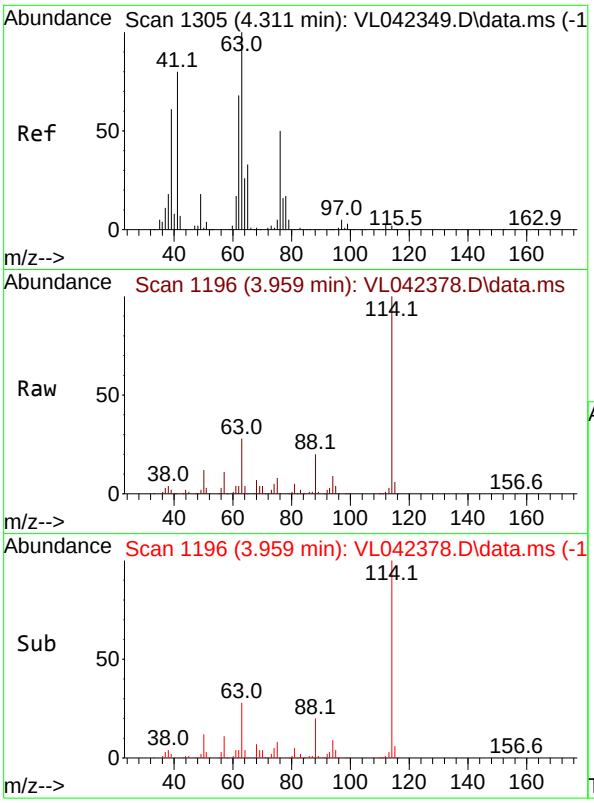


#36
Benzene
Concen: 0.038 ppbv
RT: 3.658 min Scan# 1103
Delta R.T. 0.003 min
Lab File: VL042378.D
Acq: 18 Apr 2025 02:32

Tgt Ion: 78 Resp: 1088

Ion	Ratio	Lower	Upper
78	100		
77	32.1	17.4	26.0#
50	17.2	15.5	23.3



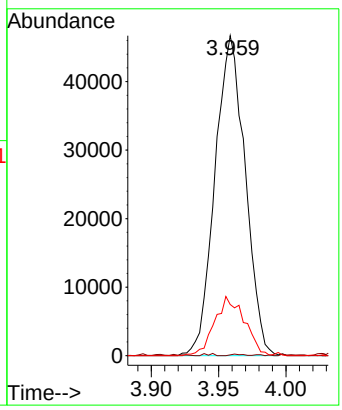


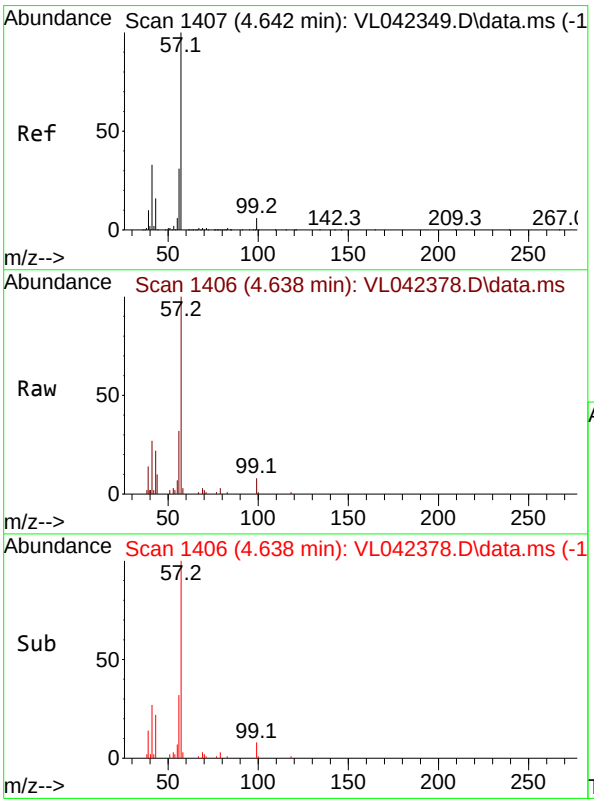
#39
1,2-Dichloropropane
Concen: 6.833 ppbv
RT: 3.959 min Scan# 1
Delta R.T. -0.353 min
Lab File: VL042378.D
Acq: 18 Apr 2025 02:32

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-2-03312025DL

Tgt Ion: 63 Resp: 72965

Ion	Ratio	Lower	Upper
63	100		
41	0.1	64.2	96.2#
62	16.0	54.3	81.5#

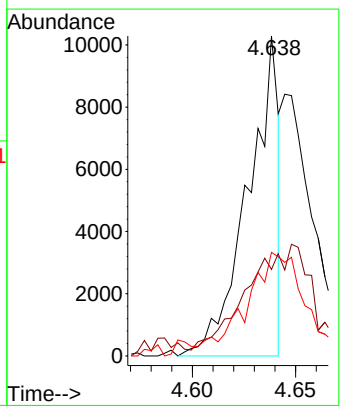


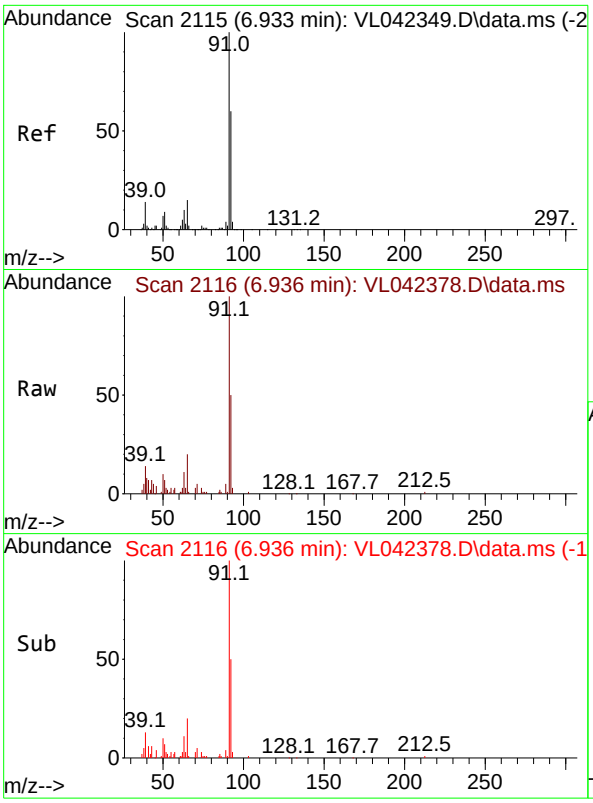


#44
2,2,4-Trimethylpentane
Concen: 0.213 ppbv
RT: 4.638 min Scan# 1406
Delta R.T. -0.003 min
Lab File: VL042378.D
Acq: 18 Apr 2025 02:32

Tgt Ion: 57 Resp: 10536

Ion	Ratio	Lower	Upper
57	100		
41	0.0	27.2	40.8#
56	67.3	25.7	38.5#



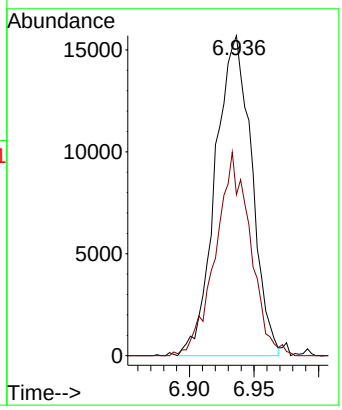


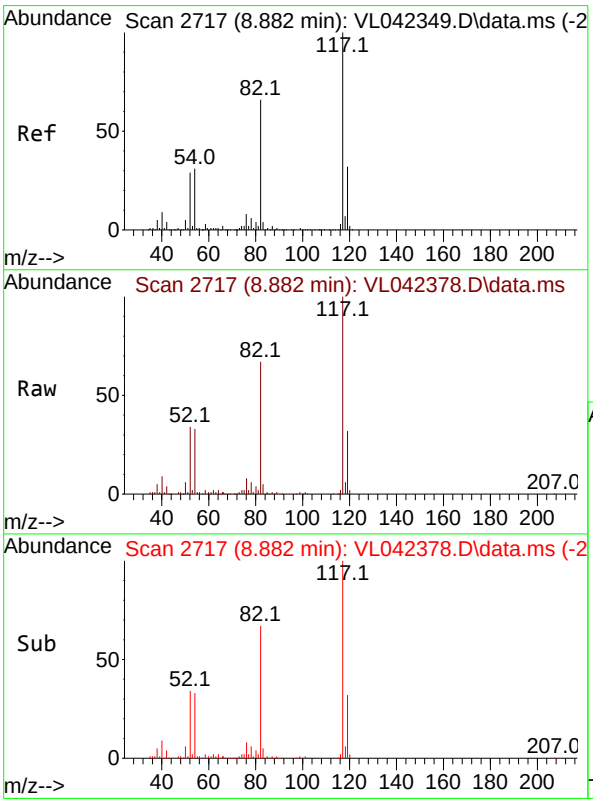
#53
Toluene
Concen: 0.891 ppbv
RT: 6.936 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL042378.D
Acq: 18 Apr 2025 02:32

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-2-03312025DL

Tgt Ion: 91 Resp: 30658

Ion	Ratio	Lower	Upper
91	100		
92	61.1	48.2	72.4

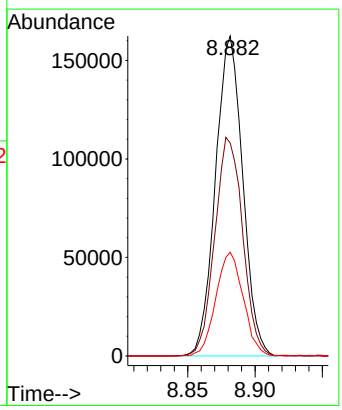


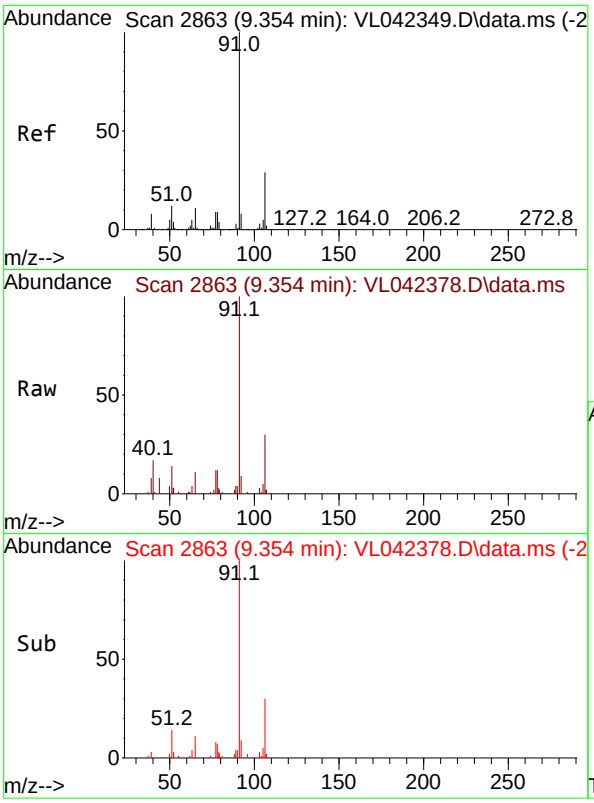


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.882 min Scan# 2717
Delta R.T. -0.000 min
Lab File: VL042378.D
Acq: 18 Apr 2025 02:32

Tgt Ion:117 Resp: 228865

Ion	Ratio	Lower	Upper
117	100		
82	69.8	57.8	86.6
119	32.7	25.2	37.8



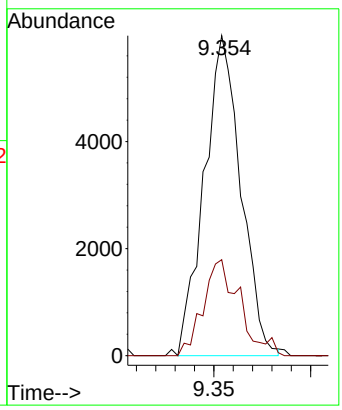


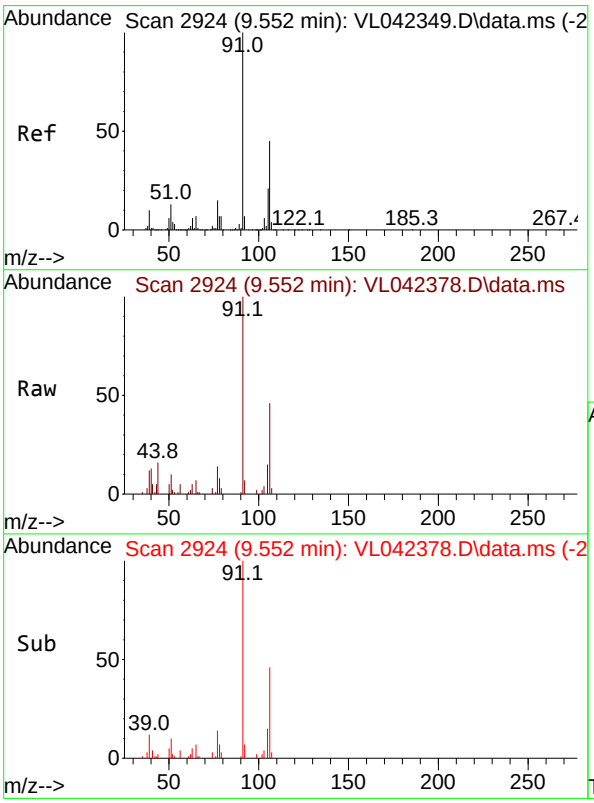
#58
Ethyl Benzene
Concen: 0.173 ppbv
RT: 9.354 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL042378.D
Acq: 18 Apr 2025 02:32

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-2-03312025DL

Tgt Ion: 91 Resp: 7859

Ion	Ratio	Lower	Upper
91	100		
106	31.6	23.0	34.4

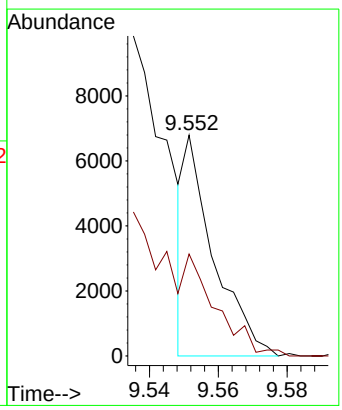


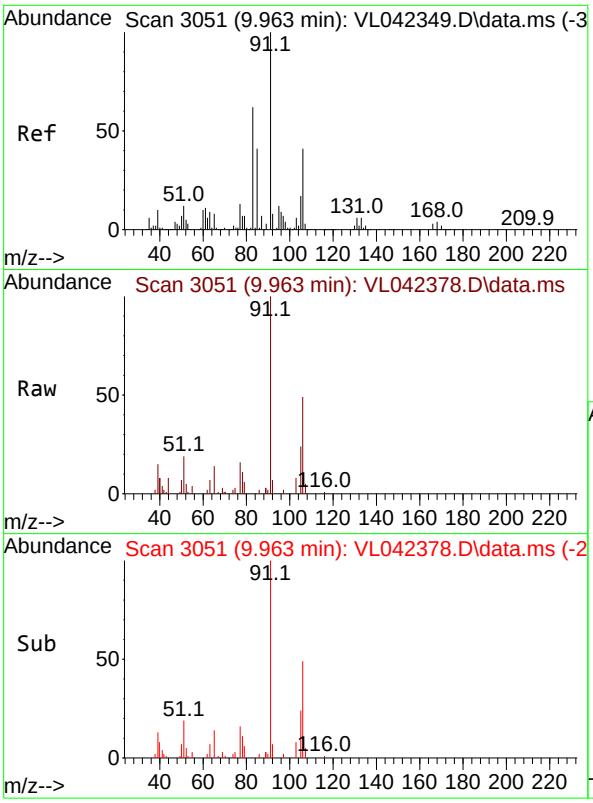


#59
m/p-Xylene
Concen: 0.111 ppbv
RT: 9.552 min Scan# 2924
Delta R.T. -0.000 min
Lab File: VL042378.D
Acq: 18 Apr 2025 02:32

Tgt Ion: 91 Resp: 4044

Ion	Ratio	Lower	Upper
91	100		
106	0.0	35.4	53.2#



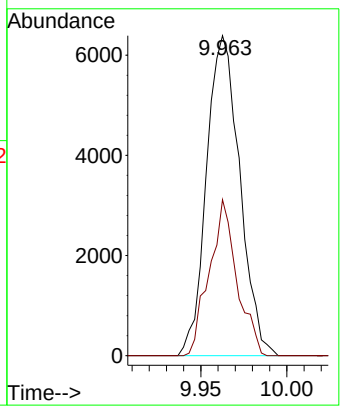


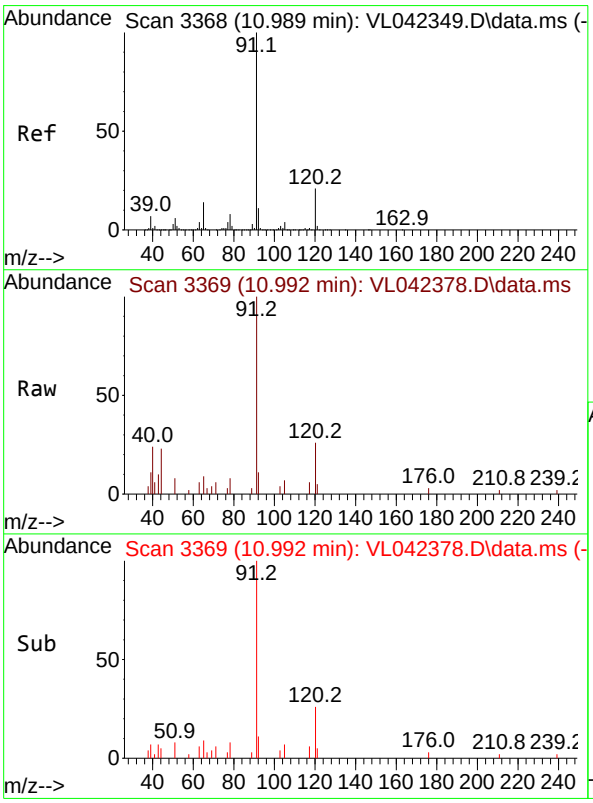
#60
o-Xylene
Concen: 0.233 ppbv
RT: 9.963 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042378.D
Acq: 18 Apr 2025 02:32

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-2-03312025DL

Tgt Ion: 91 Resp: 8584

Ion	Ratio	Lower	Upper
91	100		
106	40.6	21.1	63.4

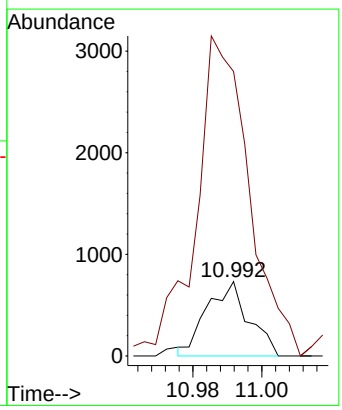


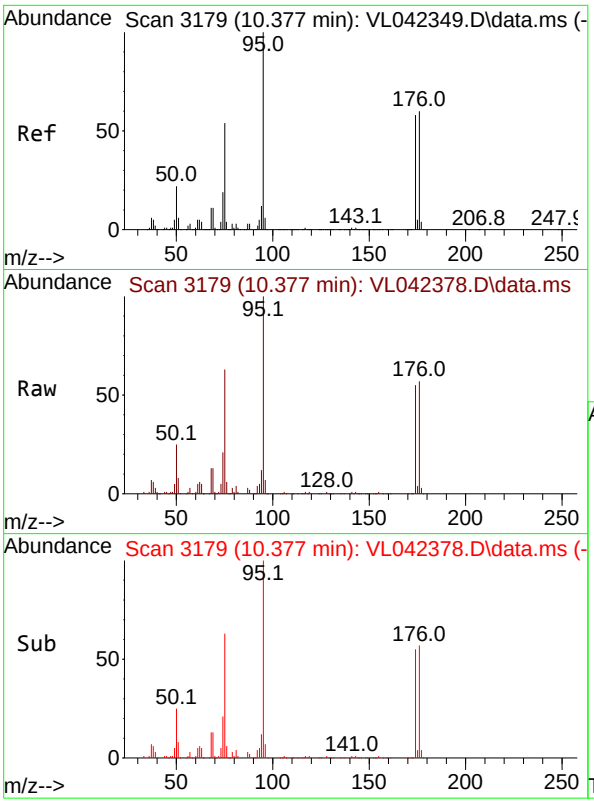


#64
n-propylbenzene
Concen: 0.045 ppbv
RT: 10.992 min Scan# 3369
Delta R.T. 0.003 min
Lab File: VL042378.D
Acq: 18 Apr 2025 02:32

Tgt Ion:120 Resp: 615

Ion	Ratio	Lower	Upper
120	100		
91	566.3	392.4	588.6



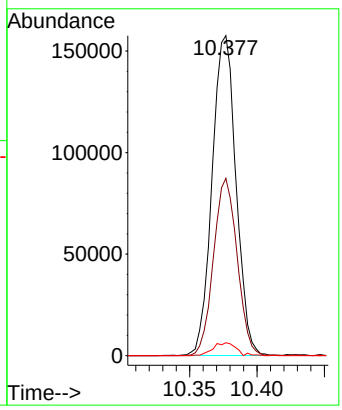


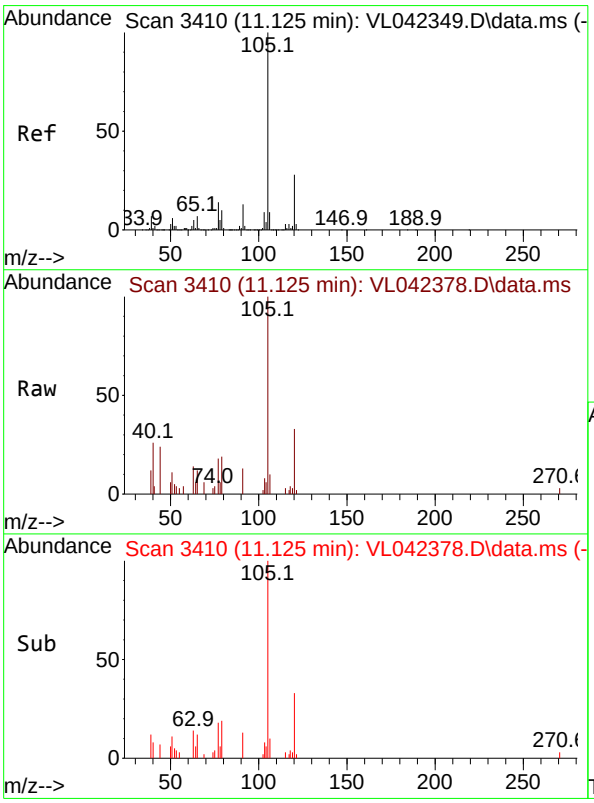
#68
1-Bromo-4-Fluorobenzene
Concen: 10.334 ppbv
RT: 10.377 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042378.D
Acq: 18 Apr 2025 02:32

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-2-03312025DL

Tgt Ion: 95 Resp: 194344

Ion	Ratio	Lower	Upper
95	100		
174	55.0	48.5	72.7
175	4.0	3.7	5.5

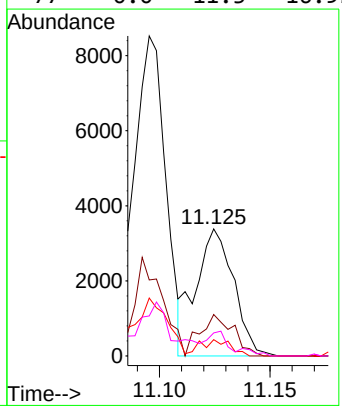


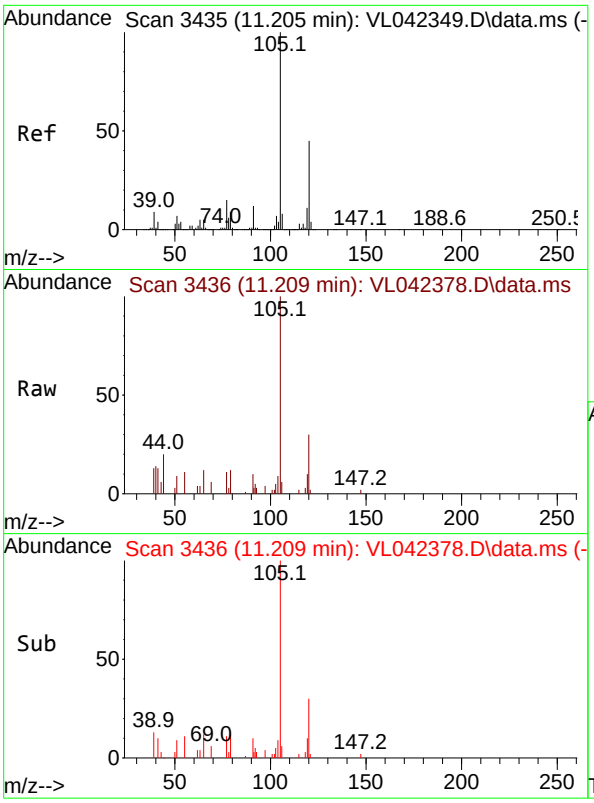


#72
4-Ethyltoluene
Concen: 0.090 ppbv
RT: 11.125 min Scan# 3410
Delta R.T. -0.000 min
Lab File: VL042378.D
Acq: 18 Apr 2025 02:32

Tgt Ion:105 Resp: 4027

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#



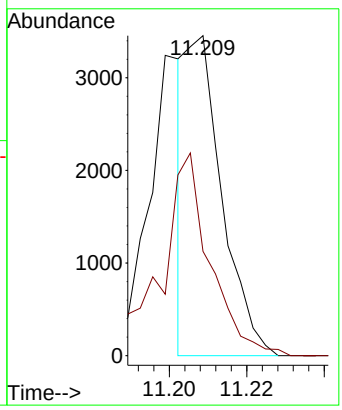


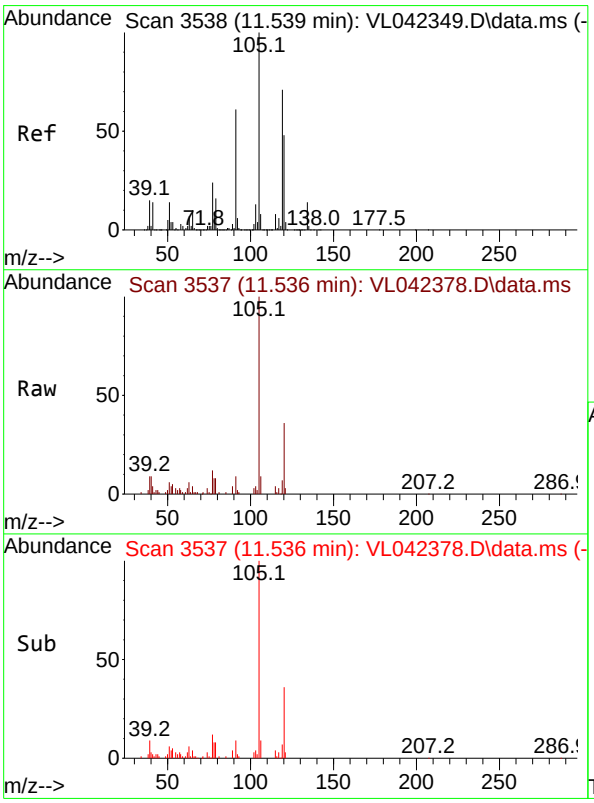
#73
1,3,5-Trimethylbenzene
Concen: 0.056 ppbv
RT: 11.209 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042378.D
Acq: 18 Apr 2025 02:32

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-2-03312025DL

Tgt Ion:105 Resp: 2222

Ion	Ratio	Lower	Upper
105	100		
120	30.7	35.6	53.4#

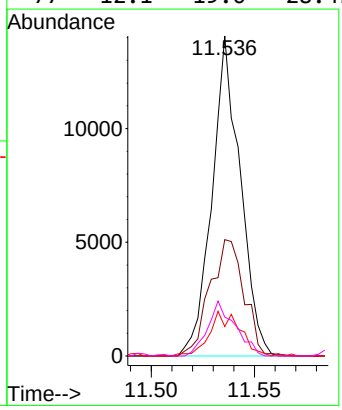




#74
1,2,4-Trimethylbenzene
Concen: 0.289 ppbv
RT: 11.536 min Scan# 3537
Delta R.T. -0.003 min
Lab File: VL042378.D
Acq: 18 Apr 2025 02:32

Tgt Ion:105 Resp: 13380

Ion	Ratio	Lower	Upper
105	100		
120	39.2	38.1	57.1
91	8.5	48.8	73.2#
77	12.1	19.0	28.4#



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042379.D
Acq On : 18 Apr 2025 03:03
Operator : SY/MD
Sample : Q1726-04DL 20X
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025DL

Quant Time: Apr 18 04:41:12 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

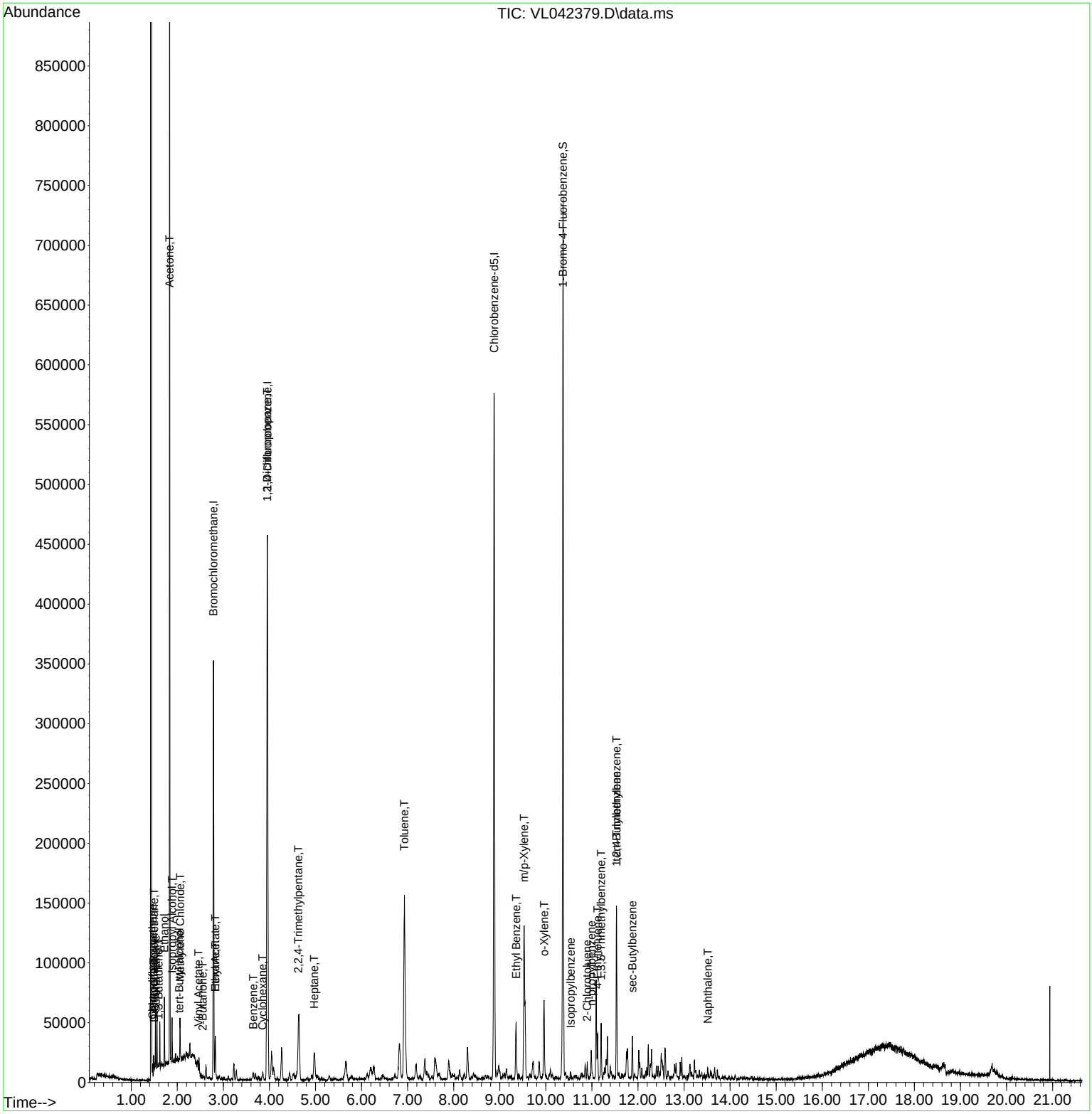
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.784	49	92518	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.956	114	260556	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.878	117	221578	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.371	95	188260	10.339	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 103.400%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.496	85	1002	0.061	ppbv	#	59
3) Chlorodifluoromethane	1.467	51	3102	0.199	ppbv	#	83
4) Chloromethane	1.531	50	420	0.065	ppbv	#	75
9) Propene	1.486	41	1792	0.253	ppbv	#	15
10) Heptane	4.972	43	5266	0.264	ppbv	#	27
13) Ethanol	1.719	45	18982	16.847	ppbv		84
15) Acetone	1.832	43	401815	26.530	ppbv		100
16) 1,3-Butadiene	1.596	39	489	0.068	ppbv	#	9
17) tert-Butyl alcohol	2.046	59	965	0.051	ppbv	#	1
19) Isopropyl Alcohol	1.887	45	15229	1.810	ppbv	#	1
20) Methylene Chloride	2.062	84	4584	0.773	ppbv		94
23) Vinyl Acetate	2.460	43	652	0.106	ppbv	#	1
25) Ethyl Acetate	2.826	43	6315	0.169	ppbv	#	86
26) Hexane	2.826	57	8415	0.557	ppbv	#	35
30) Cyclohexane	3.849	84	1289	0.106	ppbv	#	43
34) 2-Butanone	2.554	43	804	0.039	ppbv	#	53
36) Benzene	3.651	78	3272	0.116	ppbv	#	77
39) 1,2-Dichloropropane	3.952	63	70688	6.750	ppbv	#	24
44) 2,2,4-Trimethylpentane	4.629	57	26285	0.542	ppbv	#	29
53) Toluene	6.930	91	98263	2.914	ppbv		98
58) Ethyl Benzene	9.354	91	27028	0.616	ppbv		93
59) m/p-Xylene	9.526	91	79744	2.255	ppbv		100
60) o-Xylene	9.963	91	29832	0.838	ppbv		96
62) Isopropylbenzene	10.539	105	2709	0.052	ppbv		97
64) n-propylbenzene	10.986	120	1789	0.136	ppbv	#	29
65) tert-Butylbenzene	11.532	119	6043	0.126	ppbv	#	77
67) sec-Butylbenzene	11.879	105	11680	0.175	ppbv	#	65
71) 2-Chlorotoluene	10.895	91	1357	0.033	ppbv		78
72) 4-Ethyltoluene	11.125	105	12986	0.298	ppbv	#	63
73) 1,3,5-Trimethylbenzene	11.202	105	15149	0.394	ppbv		94
74) 1,2,4-Trimethylbenzene	11.536	105	50354	1.122	ppbv	#	62
79) Naphthalene	13.513	128	3721	0.069	ppbv		98

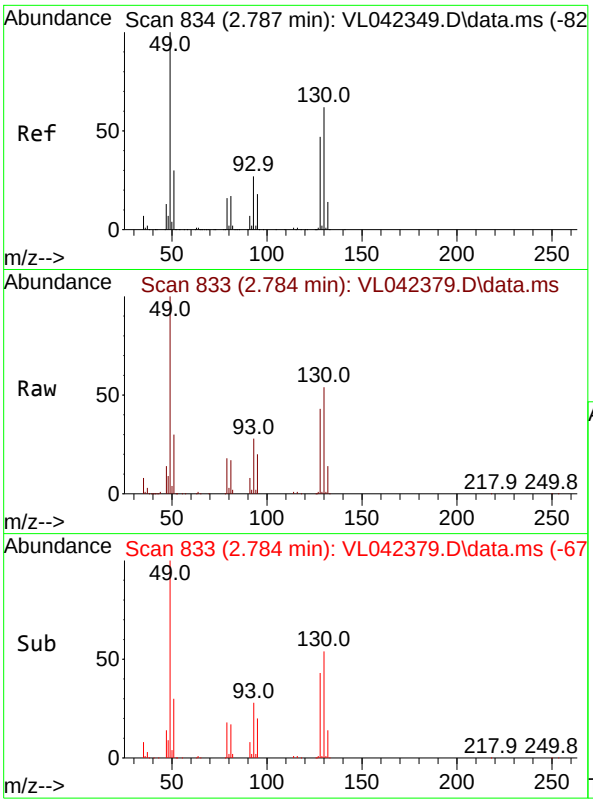
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042379.D
Acq On : 18 Apr 2025 03:03
Operator : SY/MD
Sample : Q1726-04DL 20X
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025DL

Quant Time: Apr 18 04:41:12 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



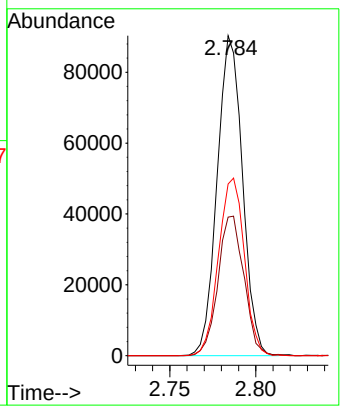


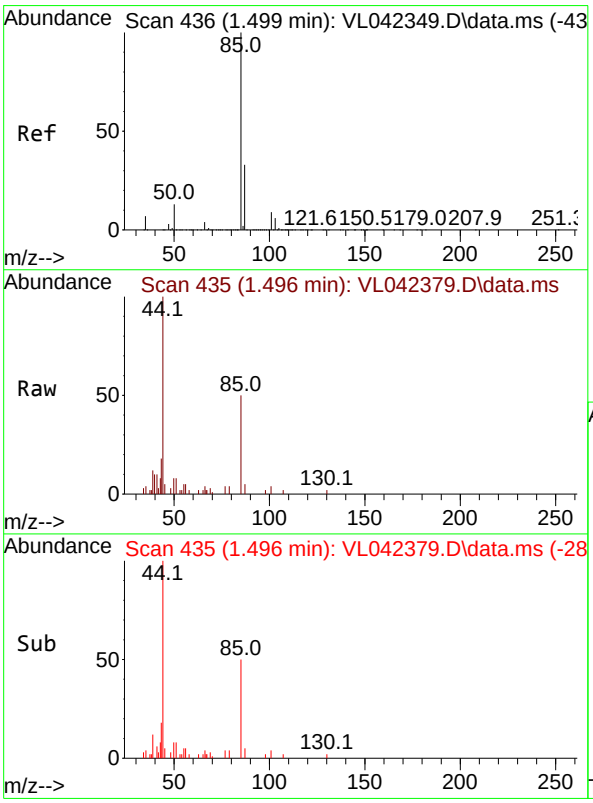
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 8
Delta R.T. -0.003 min
Lab File: VL042379.D
Acq: 18 Apr 2025 03:03

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025DL

Tgt Ion: 49 Resp: 92518

Ion	Ratio	Lower	Upper
49	100		
128	44.8	22.8	68.4
130	56.6	29.3	88.0

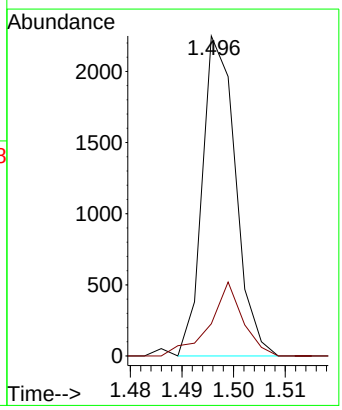


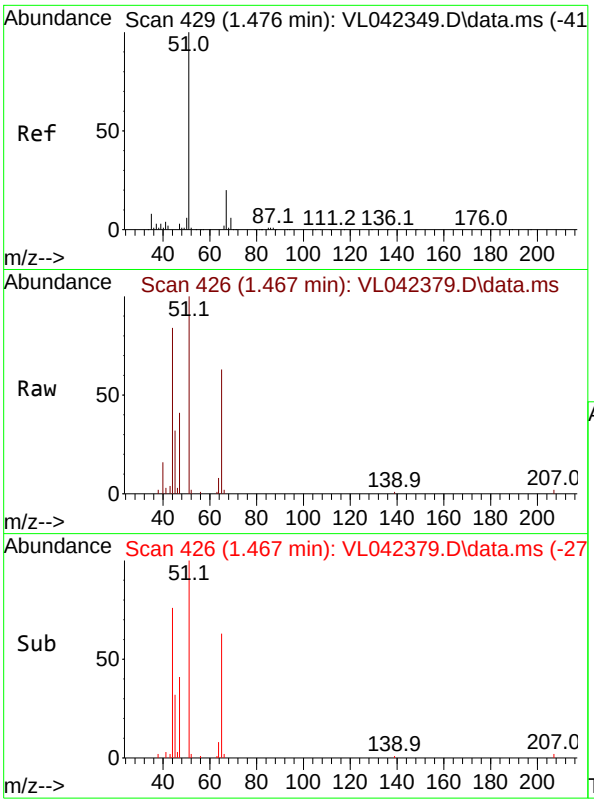


#2
Dichlorodifluoromethane
Concen: 0.061 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.003 min
Lab File: VL042379.D
Acq: 18 Apr 2025 03:03

Tgt Ion: 85 Resp: 1002

Ion	Ratio	Lower	Upper
85	100		
87	10.1	26.6	39.8#



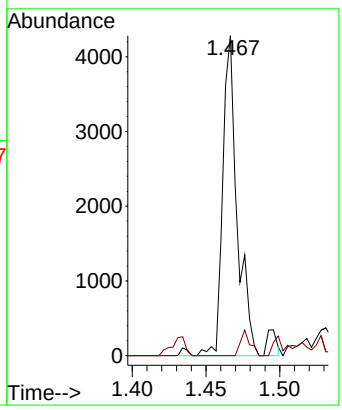


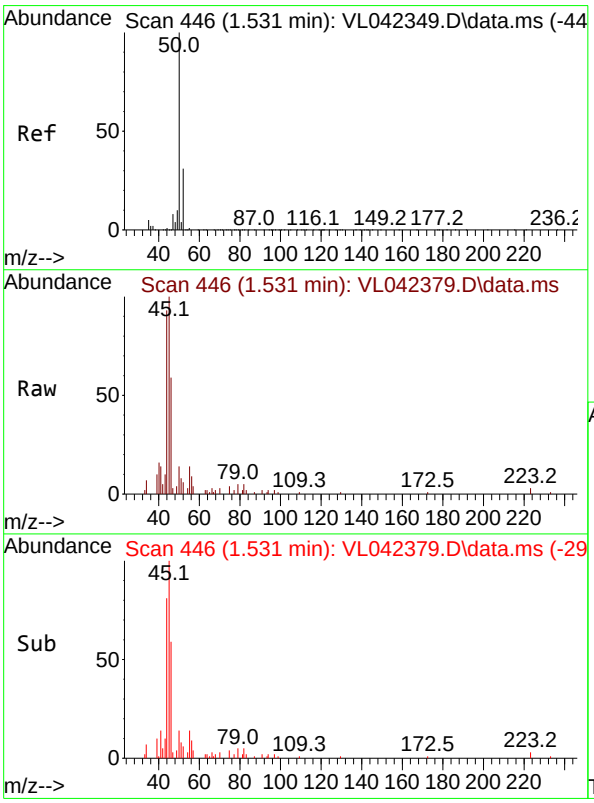
#3
Chlorodifluoromethane
Concen: 0.199 ppbv
RT: 1.467 min Scan# 4
Delta R.T. -0.010 min
Lab File: VL042379.D
Acq: 18 Apr 2025 03:03

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025DL

Tgt Ion: 51 Resp: 3102

Ion	Ratio	Lower	Upper
51	100		
67	12.3	16.2	24.4#

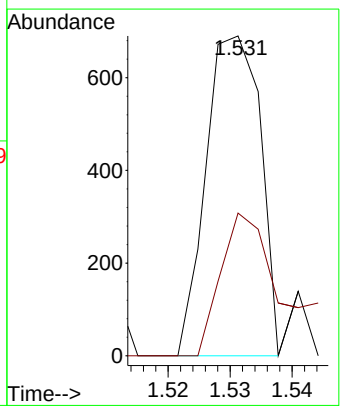


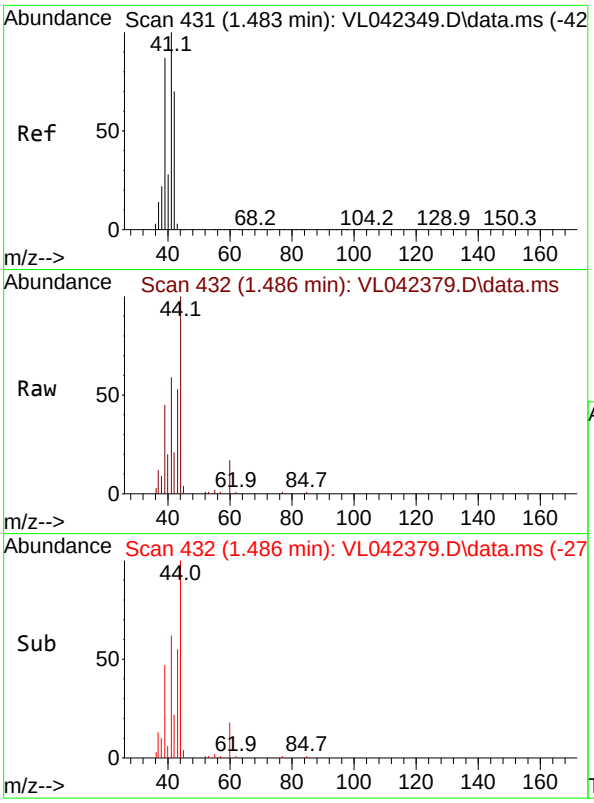


#4
Chloromethane
Concen: 0.065 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL042379.D
Acq: 18 Apr 2025 03:03

Tgt Ion: 50 Resp: 420

Ion	Ratio	Lower	Upper
50	100		
52	44.6	24.7	37.1#



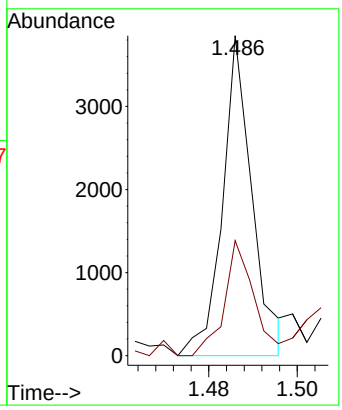


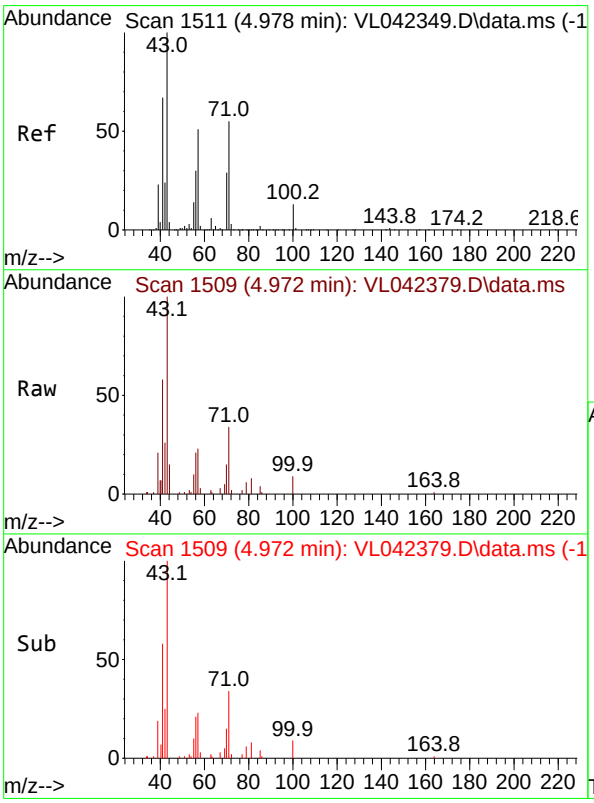
#9
Propene
Concen: 0.253 ppbv
RT: 1.486 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL042379.D
Acq: 18 Apr 2025 03:03

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025DL

Tgt Ion: 41 Resp: 1792

Ion	Ratio	Lower	Upper
41	100		
42	0.0	56.2	84.4#

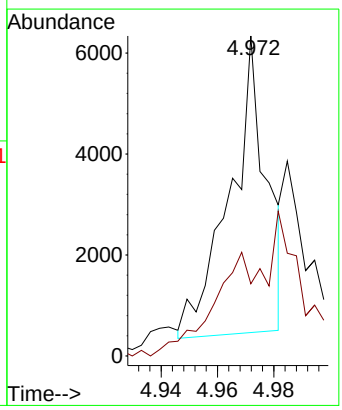


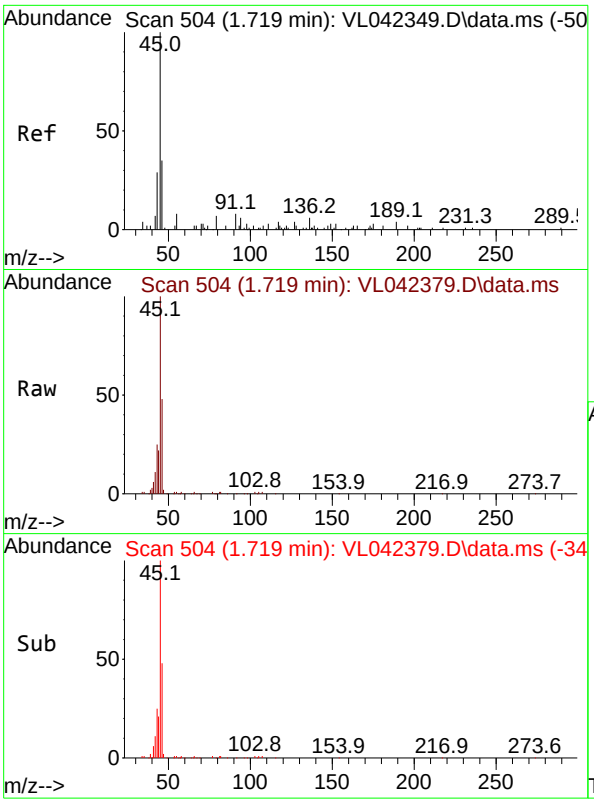


#10
Heptane
Concen: 0.264 ppbv
RT: 4.972 min Scan# 1509
Delta R.T. -0.006 min
Lab File: VL042379.D
Acq: 18 Apr 2025 03:03

Tgt Ion: 43 Resp: 5266

Ion	Ratio	Lower	Upper
43	100		
57	0.0	39.9	59.9#



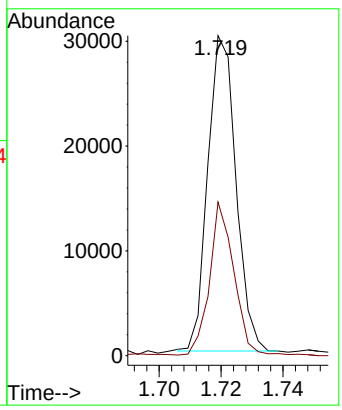


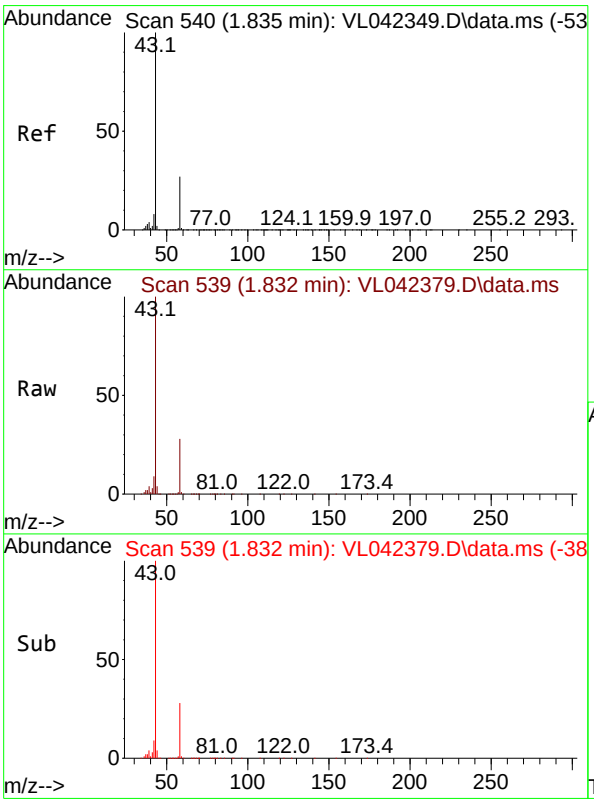
#13
Ethanol
Concen: 16.847 ppbv
RT: 1.719 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL042379.D
Acq: 18 Apr 2025 03:03

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025DL

Tgt Ion: 45 Resp: 18982

Ion	Ratio	Lower	Upper
45	100		
46	43.4	21.9	87.7

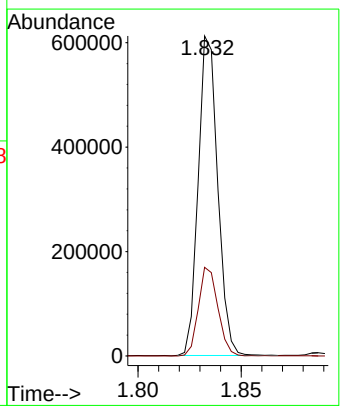


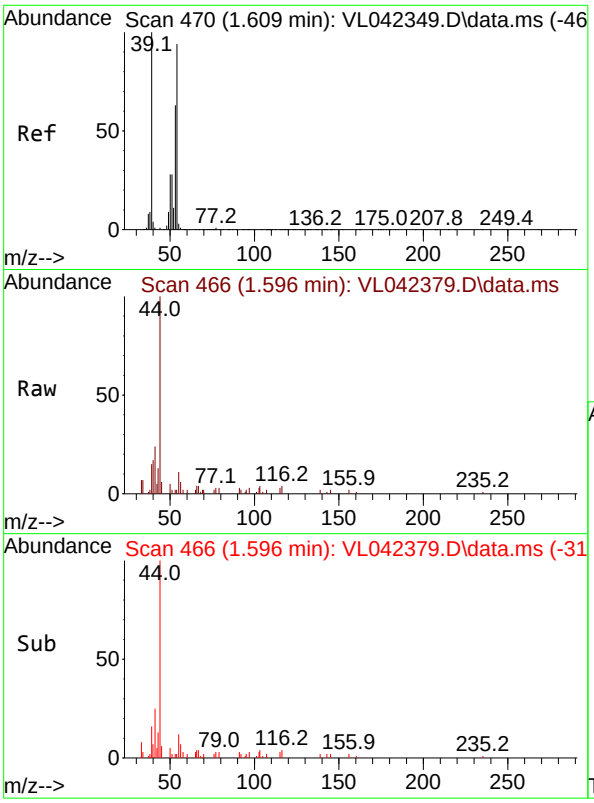


#15
Acetone
Concen: 26.530 ppbv
RT: 1.832 min Scan# 539
Delta R.T. -0.003 min
Lab File: VL042379.D
Acq: 18 Apr 2025 03:03

Tgt Ion: 43 Resp: 401815

Ion	Ratio	Lower	Upper
43	100		
58	27.9	22.4	33.6



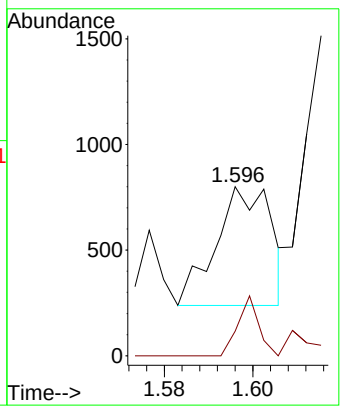


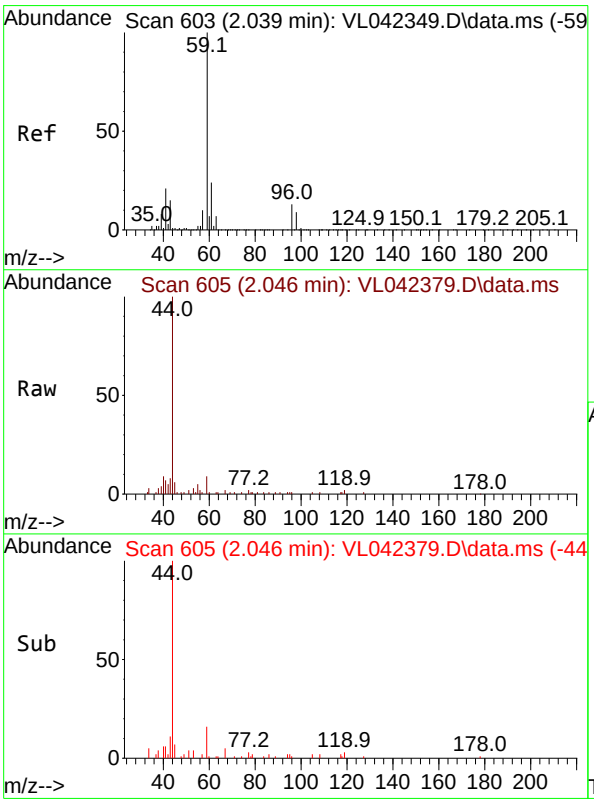
#16
1,3-Butadiene
Concen: 0.068 ppbv
RT: 1.596 min Scan# 4
Delta R.T. -0.013 min
Lab File: VL042379.D
Acq: 18 Apr 2025 03:03

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025DL

Tgt Ion: 39 Resp: 489

Ion	Ratio	Lower	Upper
39	100		
54	0.0	64.9	97.3#

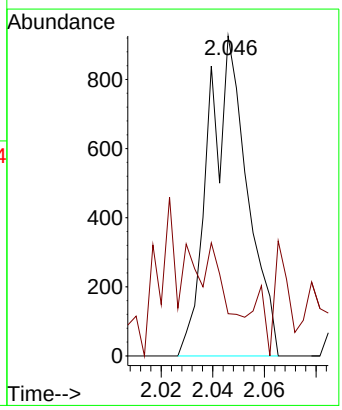


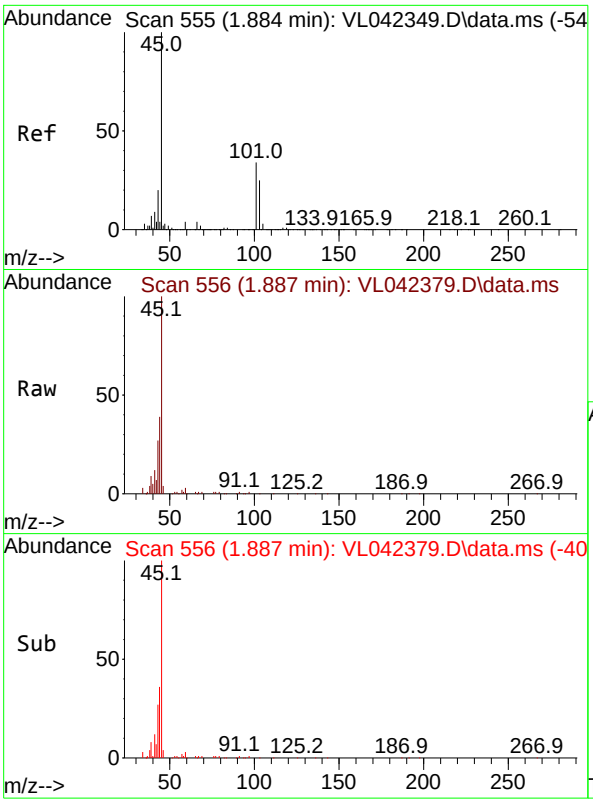


#17
tert-Butyl alcohol
Concen: 0.051 ppbv
RT: 2.046 min Scan# 605
Delta R.T. 0.007 min
Lab File: VL042379.D
Acq: 18 Apr 2025 03:03

Tgt Ion: 59 Resp: 965

Ion	Ratio	Lower	Upper
59	100		
57	62.3	8.7	13.1#



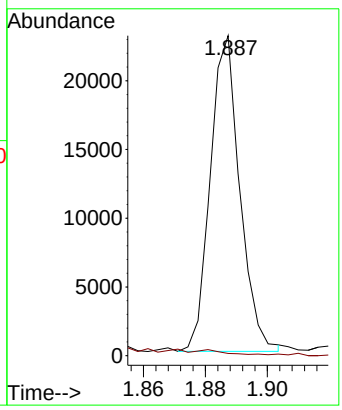


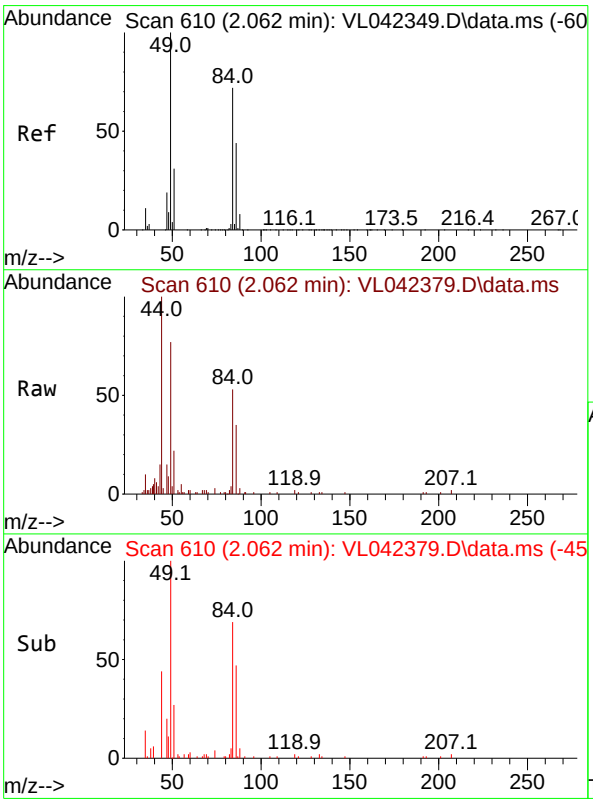
#19
Isopropyl Alcohol
Concen: 1.810 ppbv
RT: 1.887 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042379.D
Acq: 18 Apr 2025 03:03

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025DL

Tgt Ion: 45 Resp: 15229

Ion	Ratio	Lower	Upper
45	100		
58	737.4	34.5	51.7#

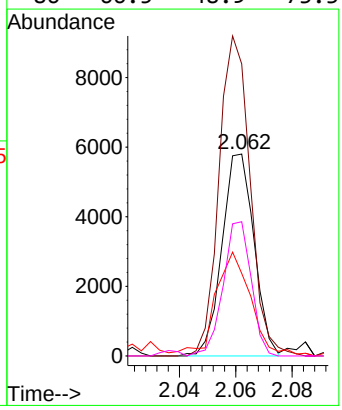


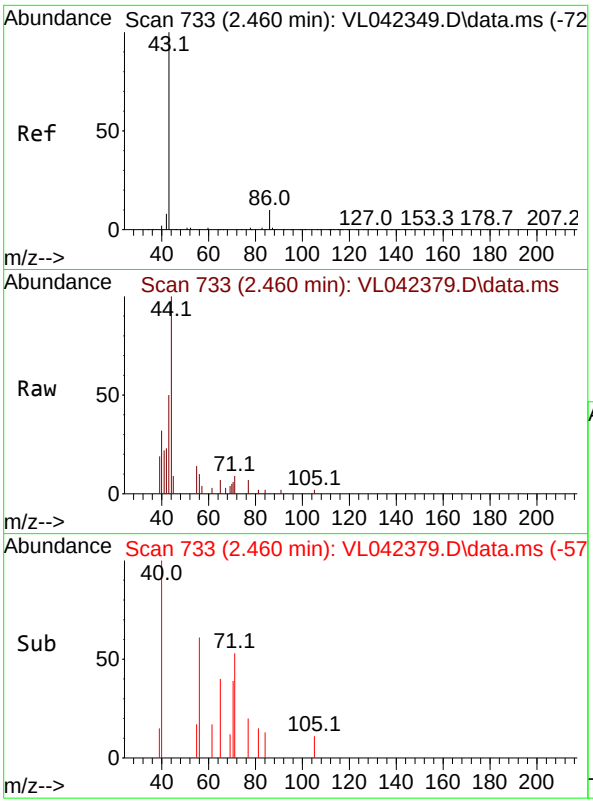


#20
Methylene Chloride
Concen: 0.773 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.000 min
Lab File: VL042379.D
Acq: 18 Apr 2025 03:03

Tgt Ion: 84 Resp: 4584

Ion	Ratio	Lower	Upper
84	100		
49	144.6	111.6	167.4
51	38.7	35.1	52.7
86	66.5	48.9	73.3



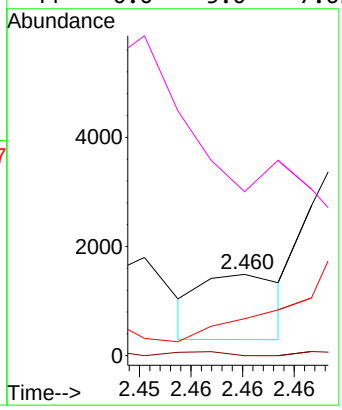


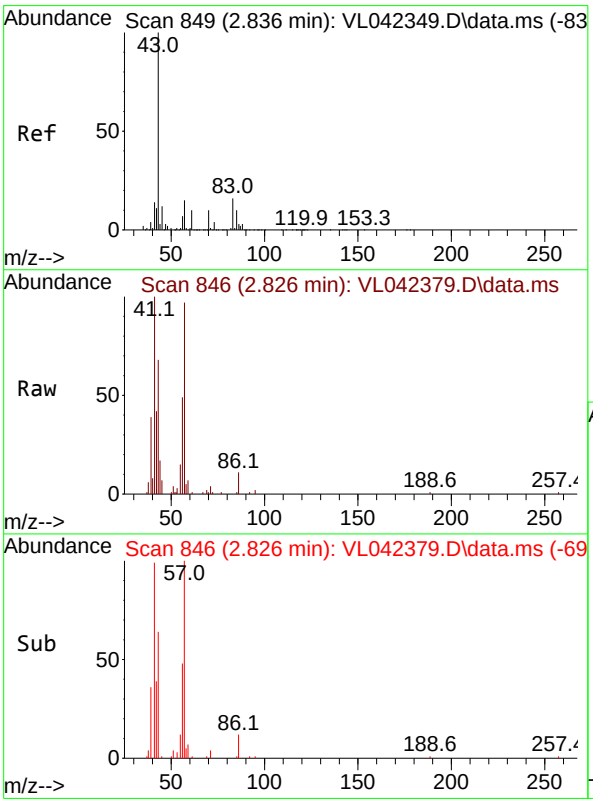
#23
Vinyl Acetate
Concen: 0.106 ppbv
RT: 2.460 min Scan# 7
Delta R.T. 0.000 min
Lab File: VL042379.D
Acq: 18 Apr 2025 03:03

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025DL

Tgt Ion: 43 Resp: 652

Ion	Ratio	Lower	Upper
43	100		
86	0.0	6.5	9.7#
42	94.4	7.8	11.8#
44	0.0	5.0	7.6#

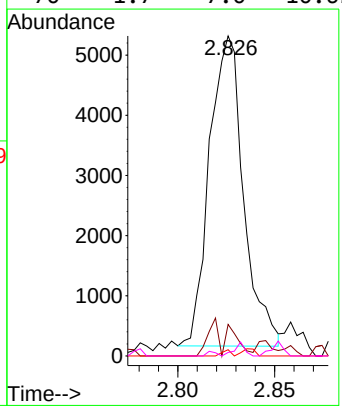


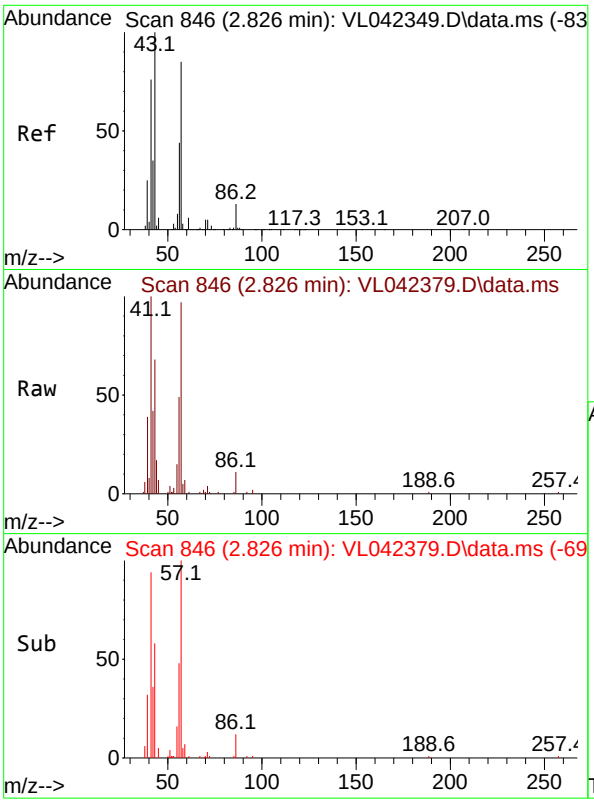


#25
Ethyl Acetate
Concen: 0.169 ppbv
RT: 2.826 min Scan# 846
Delta R.T. -0.010 min
Lab File: VL042379.D
Acq: 18 Apr 2025 03:03

Tgt Ion: 43 Resp: 6315

Ion	Ratio	Lower	Upper
43	100		
45	11.7	8.3	12.5
61	1.4	7.3	10.9#
70	1.7	7.0	10.6#



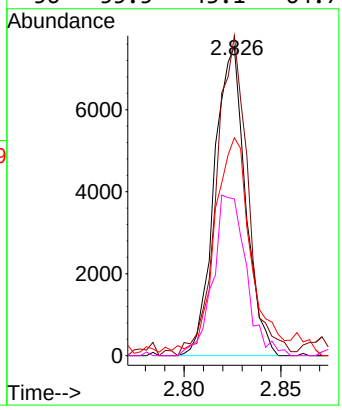


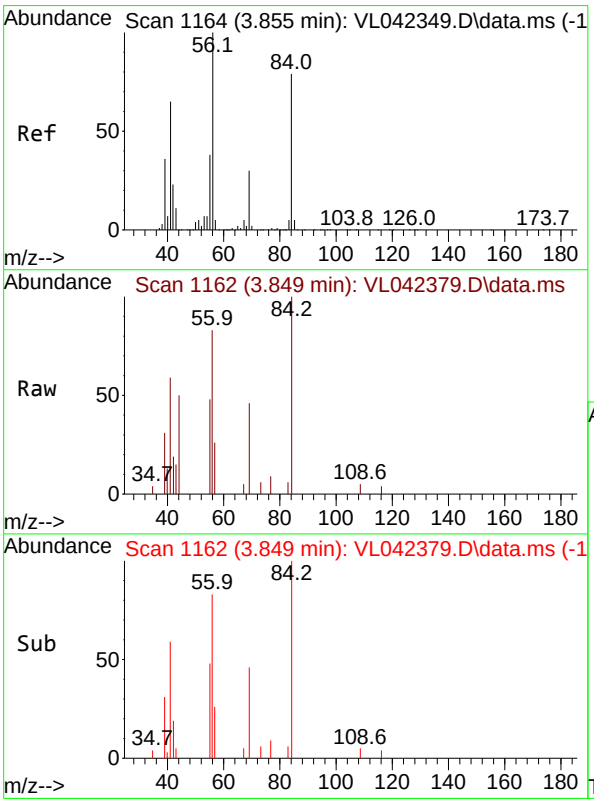
#26
Hexane
Concen: 0.557 ppbv
RT: 2.826 min Scan# 84
Delta R.T. 0.000 min
Lab File: VL042379.D
Acq: 18 Apr 2025 03:03

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025DL

Tgt Ion: 57 Resp: 8415

Ion	Ratio	Lower	Upper
57	100		
41	107.4	77.9	116.9
43	84.9	208.4	312.6#
56	55.5	43.1	64.7

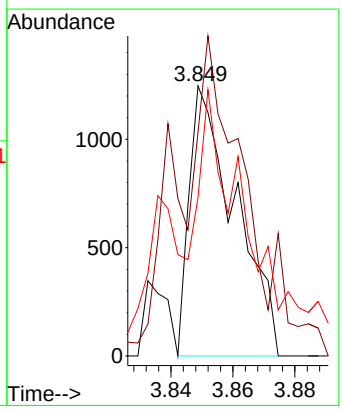


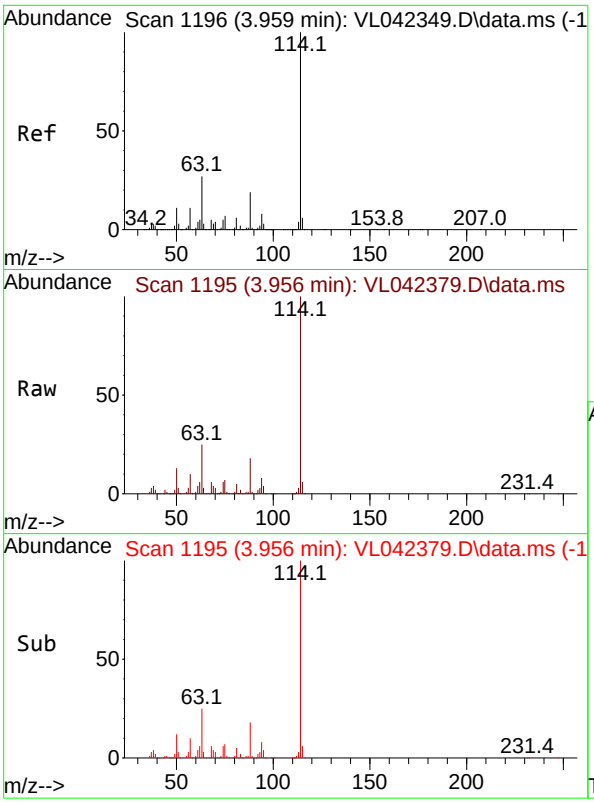


#30
Cyclohexane
Concen: 0.106 ppbv
RT: 3.849 min Scan# 1162
Delta R.T. -0.006 min
Lab File: VL042379.D
Acq: 18 Apr 2025 03:03

Tgt Ion: 84 Resp: 1289

Ion	Ratio	Lower	Upper
84	100		
56	172.8	101.0	151.4#
41	157.4	67.4	101.0#



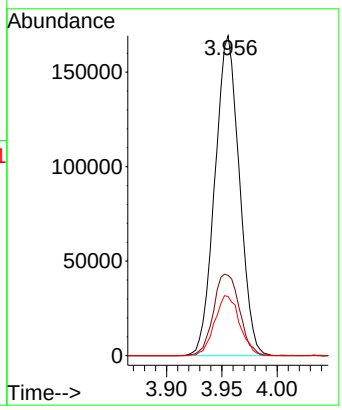


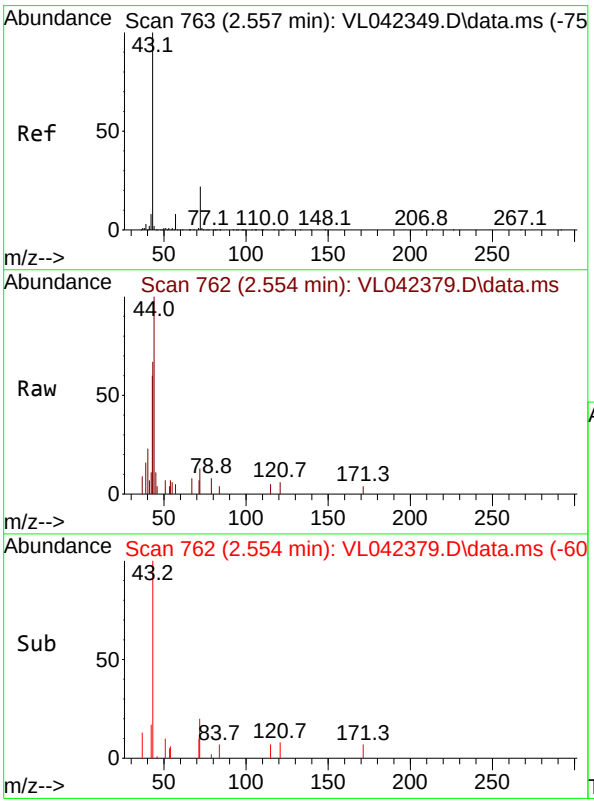
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.956 min Scan# 11
Delta R.T. -0.003 min
Lab File: VL042379.D
Acq: 18 Apr 2025 03:03

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025DL

Tgt Ion:114 Resp: 260556

Ion	Ratio	Lower	Upper
114	100		
63	27.2	21.8	32.6
88	19.2	15.5	23.3

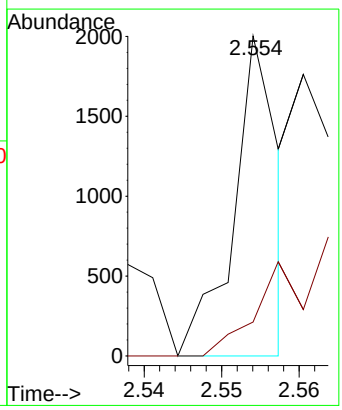


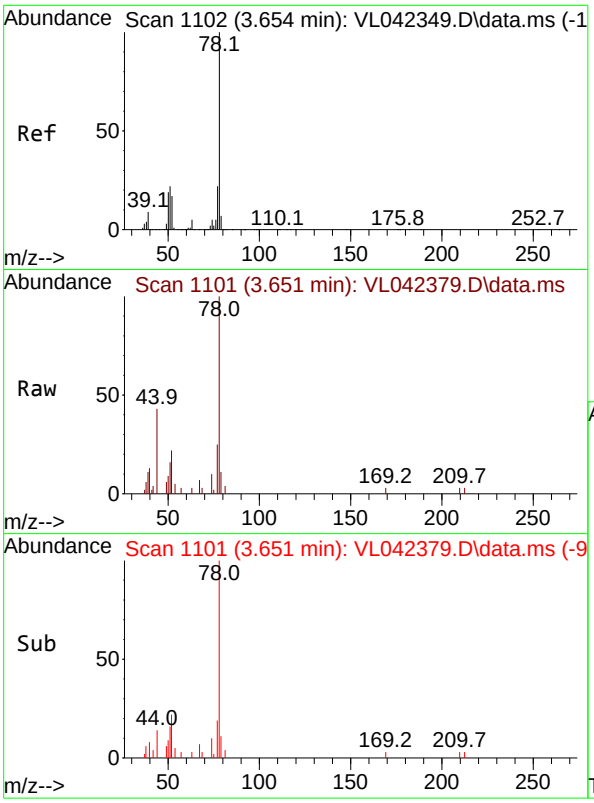


#34
2-Butanone
Concen: 0.039 ppbv
RT: 2.554 min Scan# 762
Delta R.T. -0.003 min
Lab File: VL042379.D
Acq: 18 Apr 2025 03:03

Tgt Ion: 43 Resp: 804

Ion	Ratio	Lower	Upper
43	100		
72	0.0	18.2	27.2#



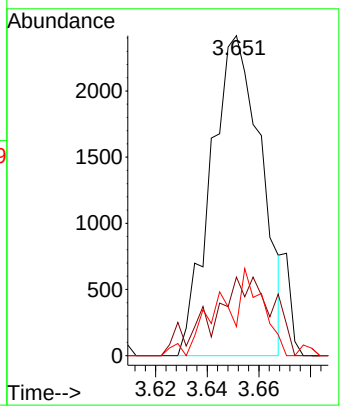


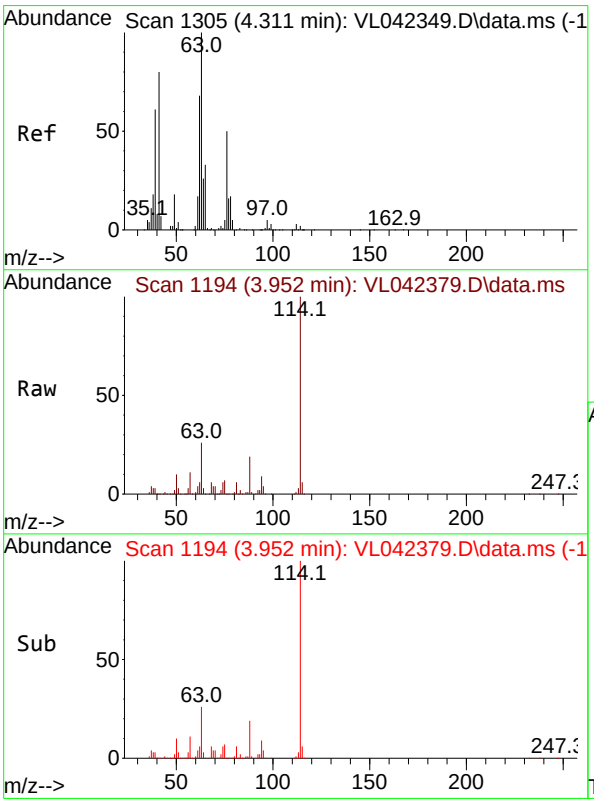
#36
Benzene
Concen: 0.116 ppbv
RT: 3.651 min Scan# 11
Delta R.T. -0.003 min
Lab File: VL042379.D
Acq: 18 Apr 2025 03:03

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025DL

Tgt Ion: 78 Resp: 3272

Ion	Ratio	Lower	Upper
78	100		
77	14.1	17.4	26.0#
50	5.3	15.5	23.3#

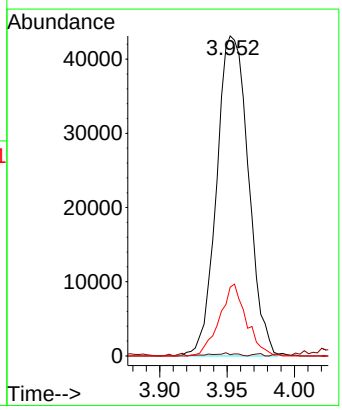


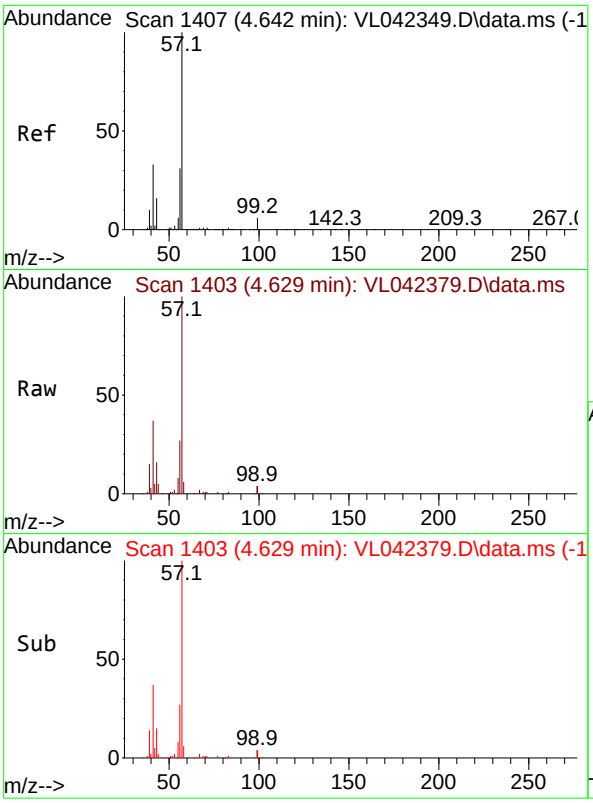


#39
1,2-Dichloropropane
Concen: 6.750 ppbv
RT: 3.952 min Scan# 1194
Delta R.T. -0.359 min
Lab File: VL042379.D
Acq: 18 Apr 2025 03:03

Tgt Ion: 63 Resp: 70688

Ion	Ratio	Lower	Upper
63	100		
41	0.0	64.2	96.2#
62	21.5	54.3	81.5#



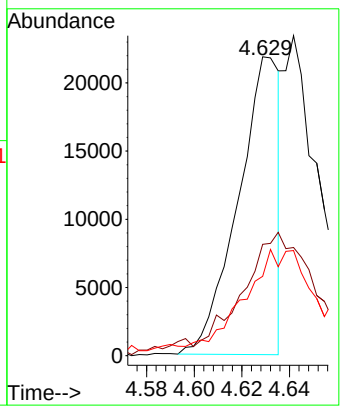


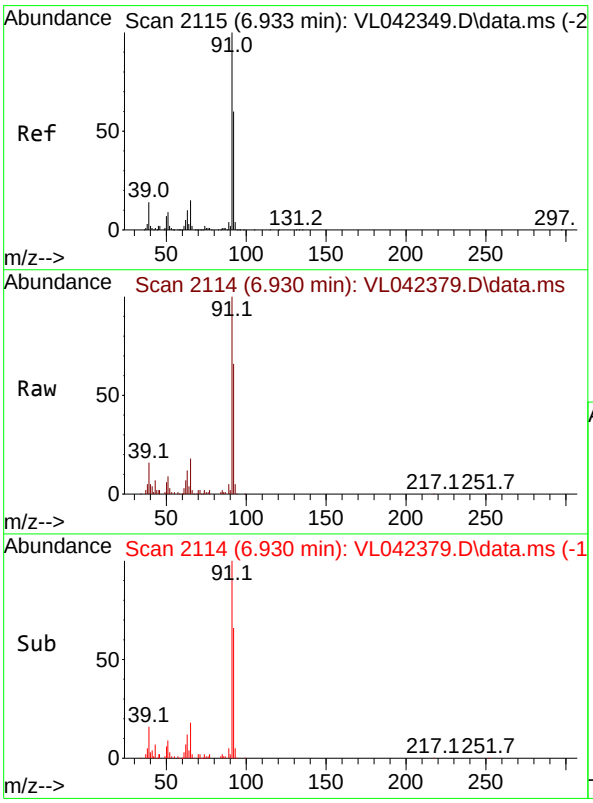
#44
2,2,4-Trimethylpentane
Concen: 0.542 ppbv
RT: 4.629 min Scan# 14
Delta R.T. -0.013 min
Lab File: VL042379.D
Acq: 18 Apr 2025 03:03

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025DL

Tgt Ion: 57 Resp: 26285

Ion	Ratio	Lower	Upper
57	100		
41	78.0	27.2	40.8#
56	68.2	25.7	38.5#

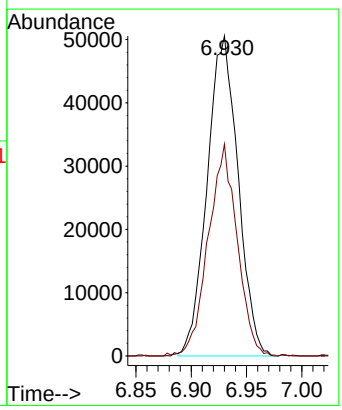


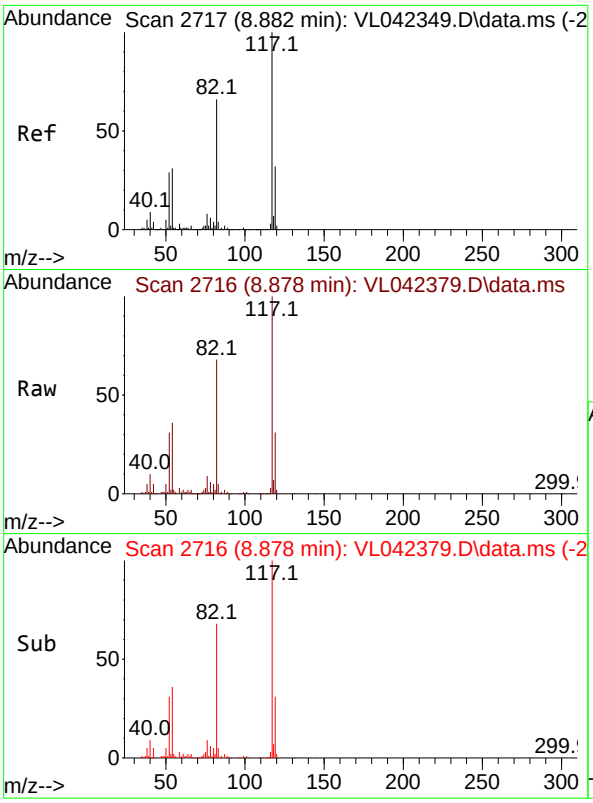


#53
Toluene
Concen: 2.914 ppbv
RT: 6.930 min Scan# 2114
Delta R.T. -0.003 min
Lab File: VL042379.D
Acq: 18 Apr 2025 03:03

Tgt Ion: 91 Resp: 98263

Ion	Ratio	Lower	Upper
91	100		
92	61.9	48.2	72.4



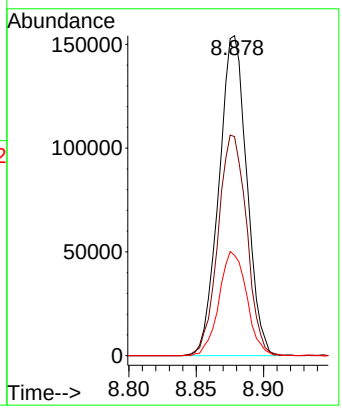


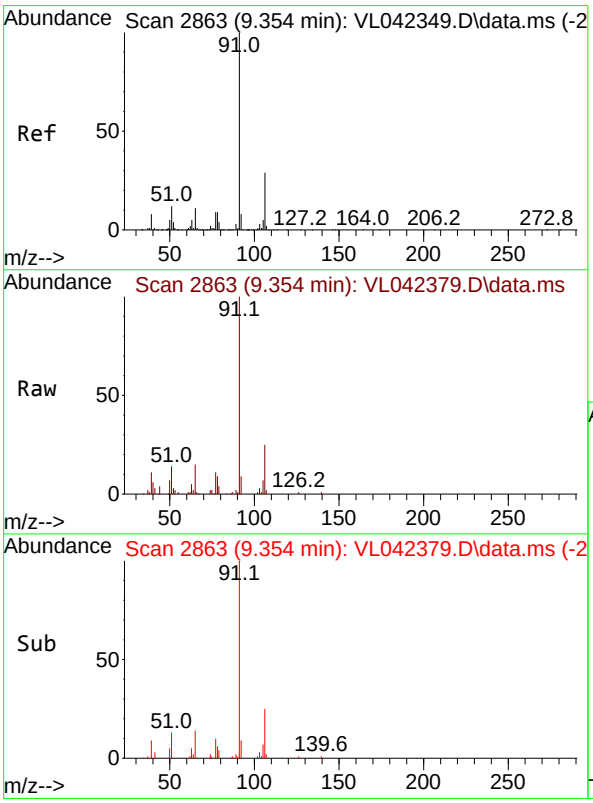
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.878 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL042379.D
Acq: 18 Apr 2025 03:03

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025DL

Tgt Ion:117 Resp: 221578

Ion	Ratio	Lower	Upper
117	100		
82	70.9	57.8	86.6
119	32.4	25.2	37.8

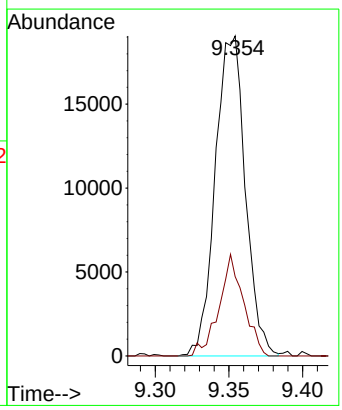


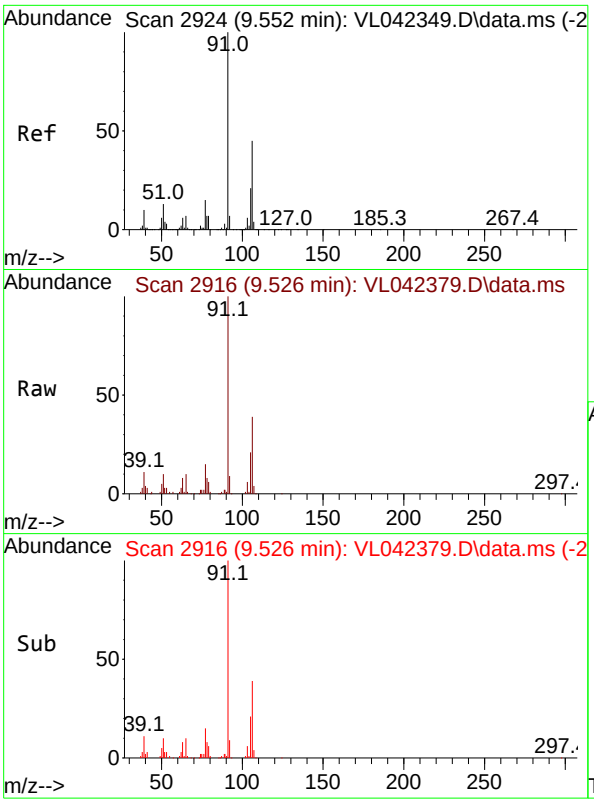


#58
Ethyl Benzene
Concen: 0.616 ppbv
RT: 9.354 min Scan# 2863
Delta R.T. 0.000 min
Lab File: VL042379.D
Acq: 18 Apr 2025 03:03

Tgt Ion: 91 Resp: 27028

Ion	Ratio	Lower	Upper
91	100		
106	24.8	23.0	34.4



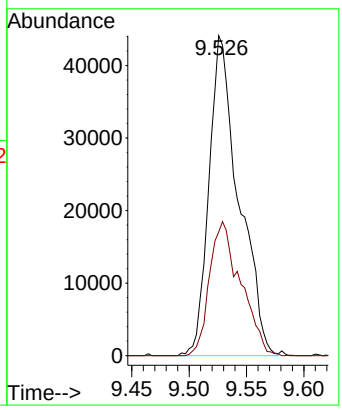


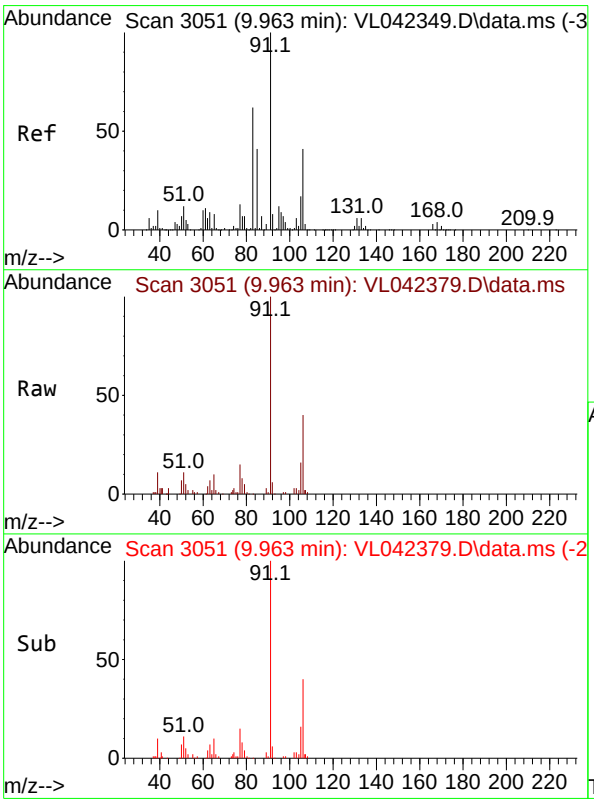
#59
m/p-Xylene
Concen: 2.255 ppbv
RT: 9.526 min Scan# 2
Delta R.T. -0.026 min
Lab File: VL042379.D
Acq: 18 Apr 2025 03:03

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025DL

Tgt Ion: 91 Resp: 79744

Ion	Ratio	Lower	Upper
91	100		
106	44.0	35.4	53.2

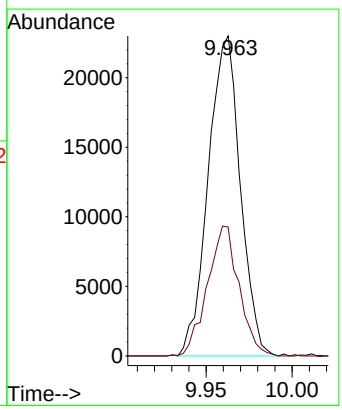


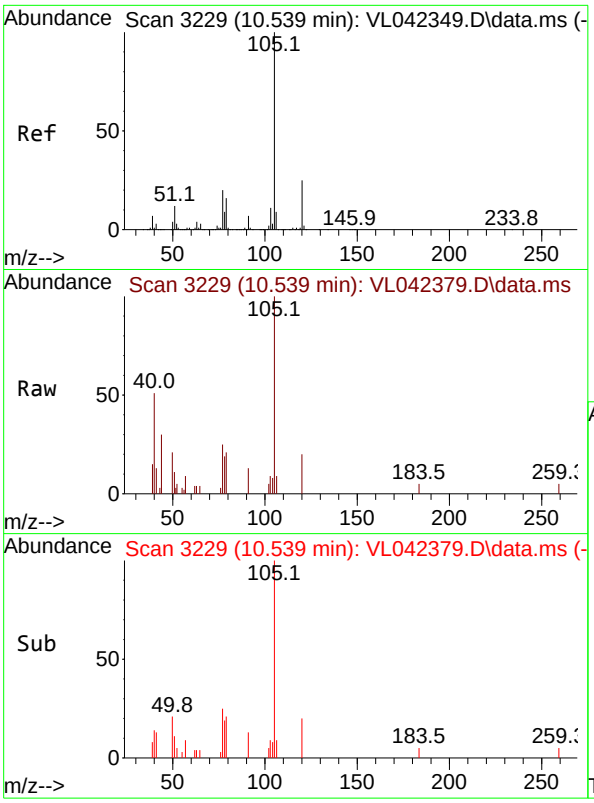


#60
o-Xylene
Concen: 0.838 ppbv
RT: 9.963 min Scan# 3051
Delta R.T. 0.000 min
Lab File: VL042379.D
Acq: 18 Apr 2025 03:03

Tgt Ion: 91 Resp: 29832

Ion	Ratio	Lower	Upper
91	100		
106	40.0	21.1	63.4



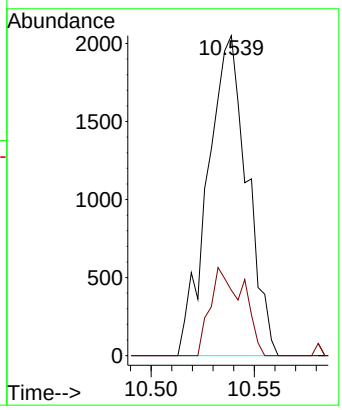


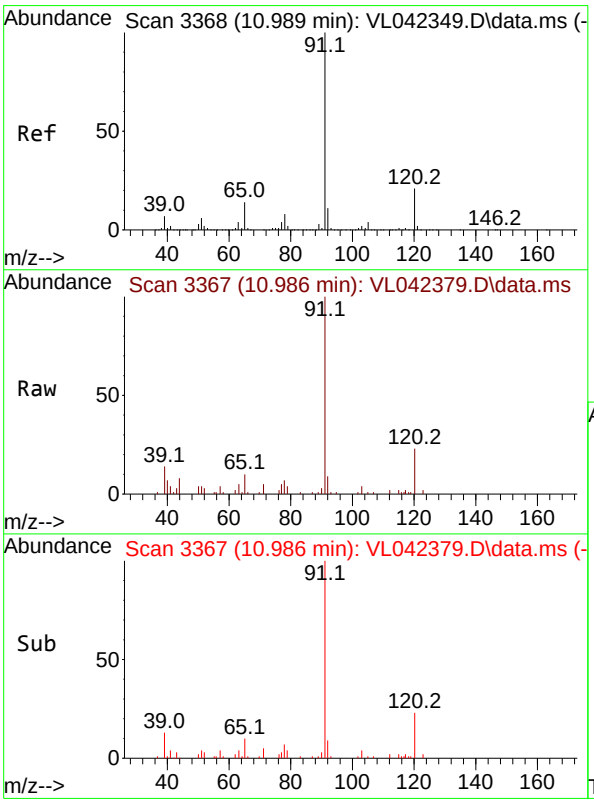
#62
Isopropylbenzene
Concen: 0.052 ppbv
RT: 10.539 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042379.D
Acq: 18 Apr 2025 03:03

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025DL

Tgt Ion:105 Resp: 2709

Ion	Ratio	Lower	Upper
105	100		
120	23.1	19.8	29.8

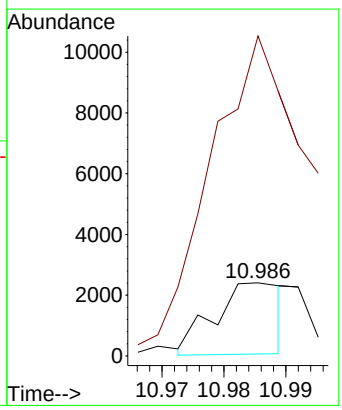


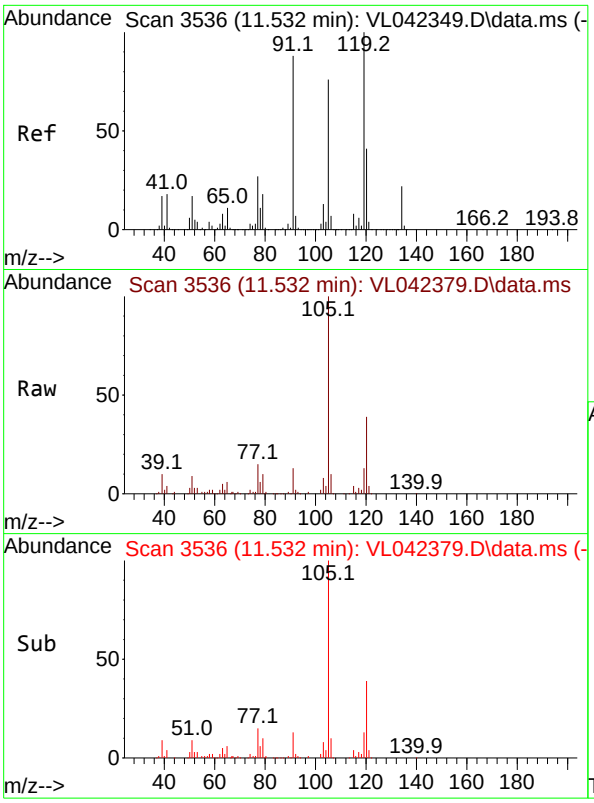


#64
n-propylbenzene
Concen: 0.136 ppbv
RT: 10.986 min Scan# 3367
Delta R.T. -0.003 min
Lab File: VL042379.D
Acq: 18 Apr 2025 03:03

Tgt Ion:120 Resp: 1789

Ion	Ratio	Lower	Upper
120	100		
91	682.3	392.4	588.6#



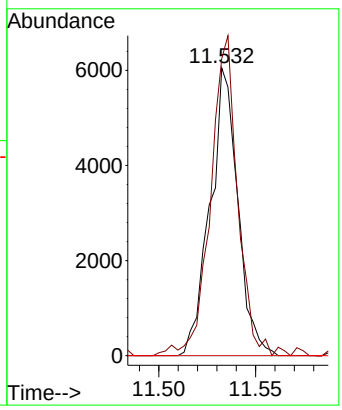


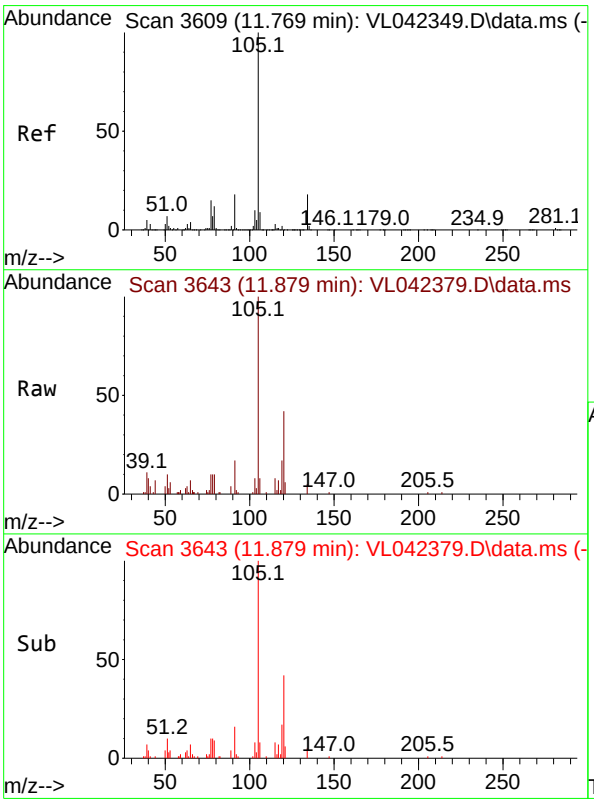
#65
tert-Butylbenzene
Concen: 0.126 ppbv
RT: 11.532 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042379.D
Acq: 18 Apr 2025 03:03

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025DL

Tgt Ion:119 Resp: 6043

Ion	Ratio	Lower	Upper
119	100		
91	109.8	74.6	111.8
134	0.0	18.8	28.2#

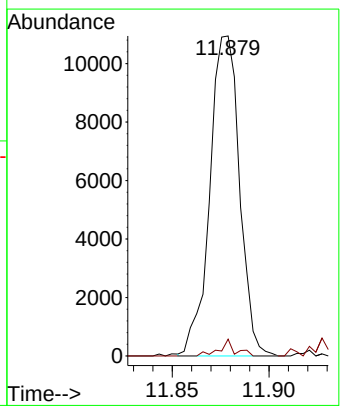


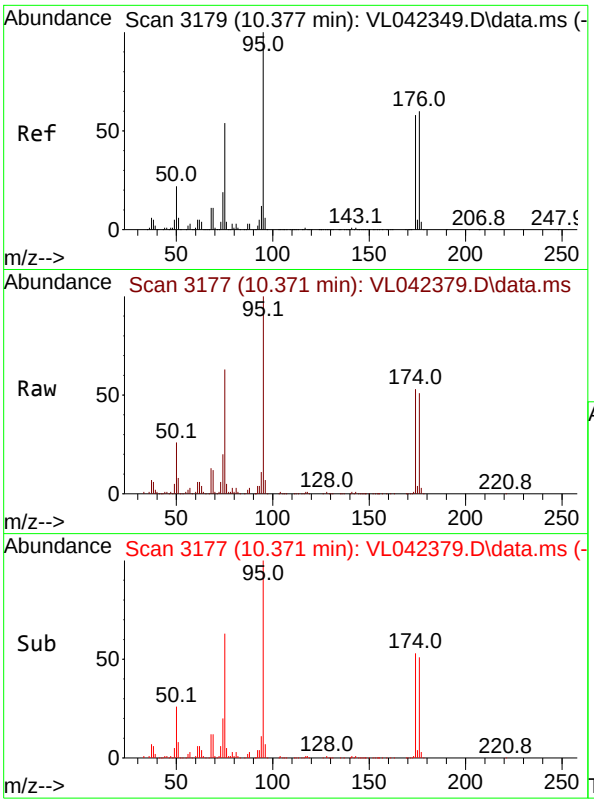


#67
sec-Butylbenzene
Concen: 0.175 ppbv
RT: 11.879 min Scan# 3643
Delta R.T. 0.110 min
Lab File: VL042379.D
Acq: 18 Apr 2025 03:03

Tgt Ion:105 Resp: 11680

Ion	Ratio	Lower	Upper
105	100		
134	2.6	14.6	21.8#



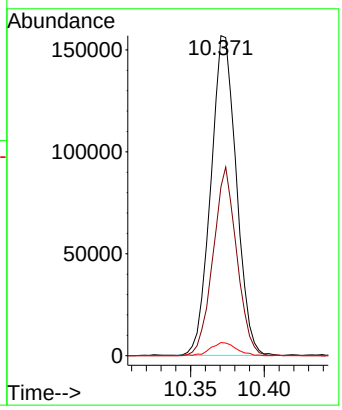


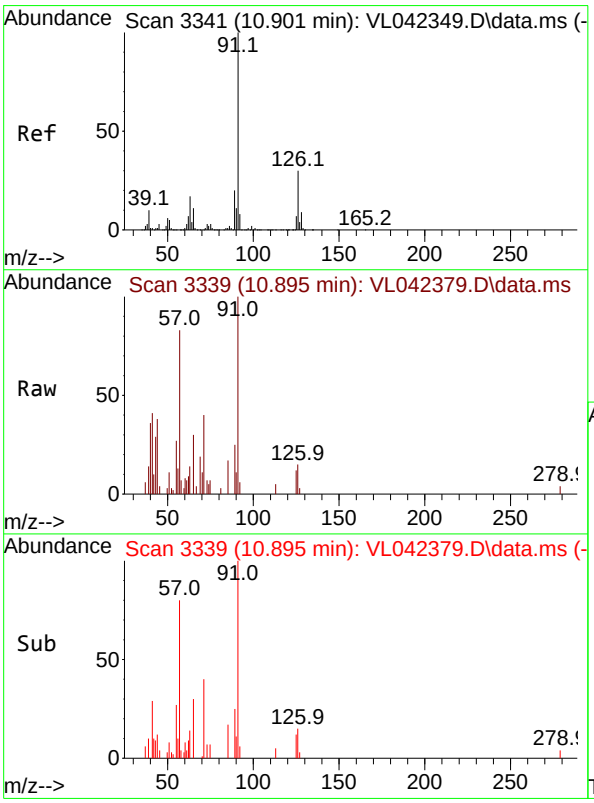
#68
1-Bromo-4-Fluorobenzene
Concen: 10.339 ppbv
RT: 10.371 min Scan# 3
Delta R.T. -0.006 min
Lab File: VL042379.D
Acq: 18 Apr 2025 03:03

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025DL

Tgt Ion: 95 Resp: 188260

Ion	Ratio	Lower	Upper
95	100		
174	54.8	48.5	72.7
175	4.2	3.7	5.5

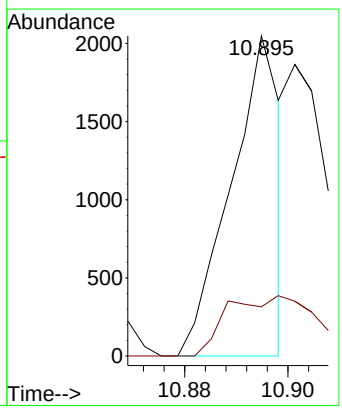


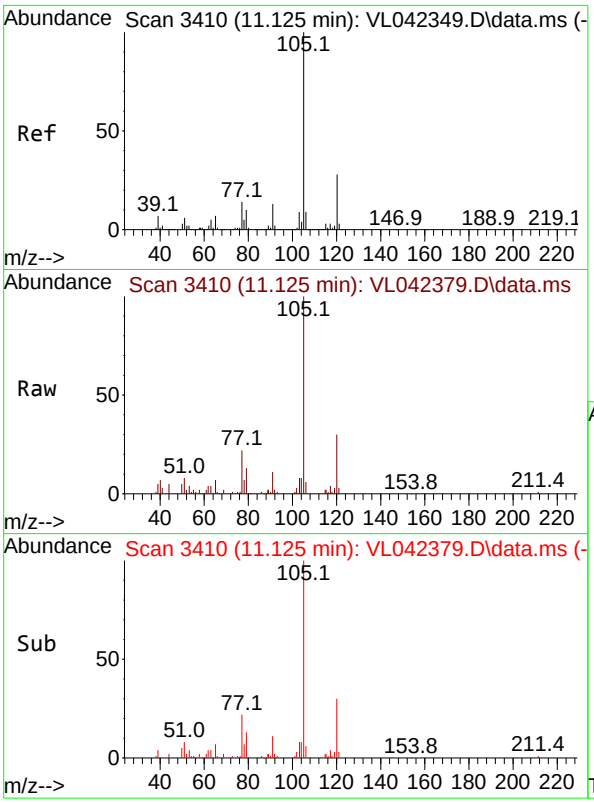


#71
2-Chlorotoluene
Concen: 0.033 ppbv
RT: 10.895 min Scan# 3339
Delta R.T. -0.006 min
Lab File: VL042379.D
Acq: 18 Apr 2025 03:03

Tgt Ion: 91 Resp: 1357

Ion	Ratio	Lower	Upper
91	100		
126	40.2	11.4	45.4



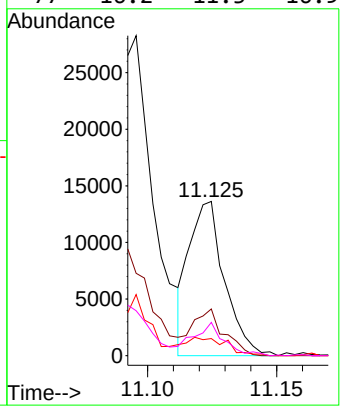


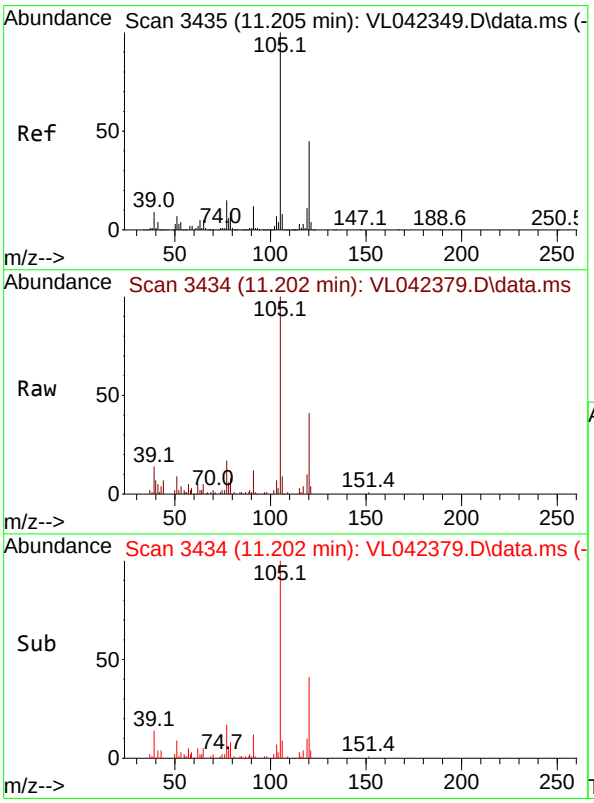
#72
4-Ethyltoluene
Concen: 0.298 ppbv
RT: 11.125 min Scan# 34
Delta R.T. 0.000 min
Lab File: VL042379.D
Acq: 18 Apr 2025 03:03

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025DL

Tgt Ion:105 Resp: 12986

Ion	Ratio	Lower	Upper
105	100		
120	0.0	23.2	34.8#
91	0.0	10.4	15.6#
77	16.2	11.3	16.9

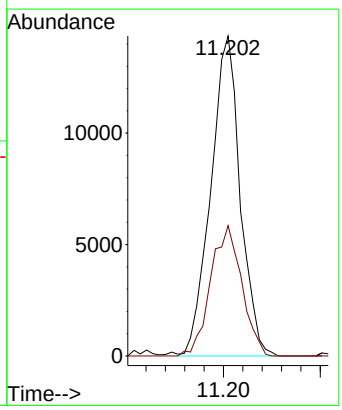


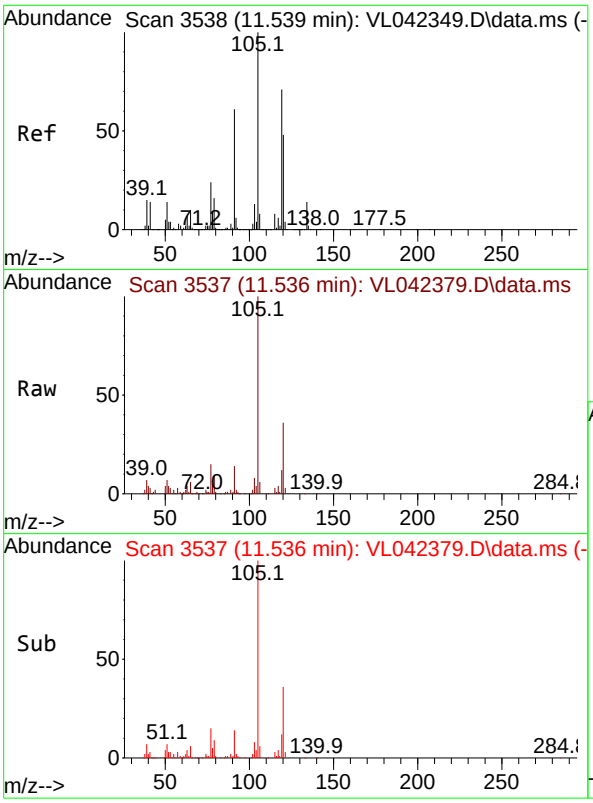


#73
1,3,5-Trimethylbenzene
Concen: 0.394 ppbv
RT: 11.202 min Scan# 3434
Delta R.T. -0.003 min
Lab File: VL042379.D
Acq: 18 Apr 2025 03:03

Tgt Ion:105 Resp: 15149

Ion	Ratio	Lower	Upper
105	100		
120	40.7	35.6	53.4



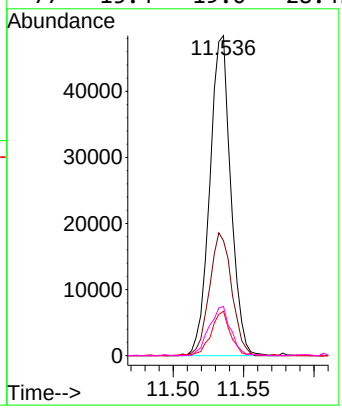


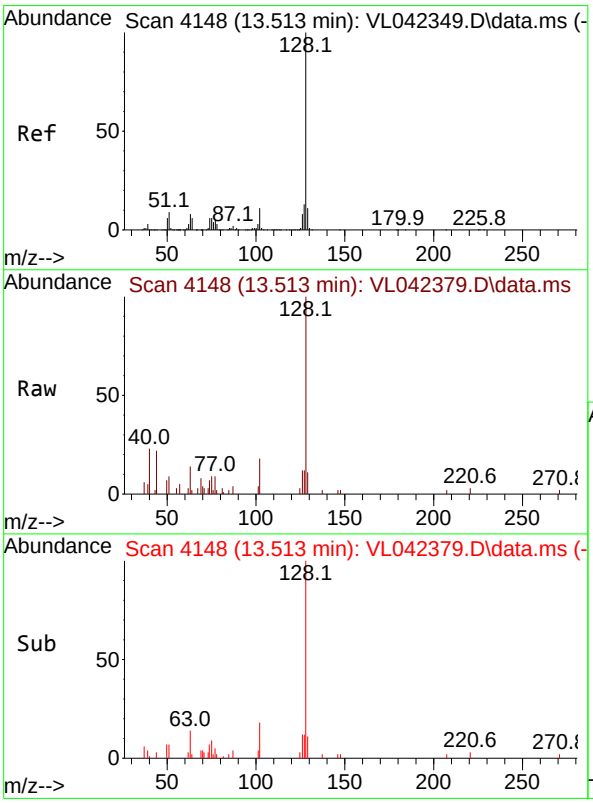
#74
1,2,4-Trimethylbenzene
Concen: 1.122 ppbv
RT: 11.536 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042379.D
Acq: 18 Apr 2025 03:03

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025DL

Tgt Ion:105 Resp: 50354

Ion	Ratio	Lower	Upper
105	100		
120	35.9	38.1	57.1#
91	13.7	48.8	73.2#
77	15.4	19.0	28.4#

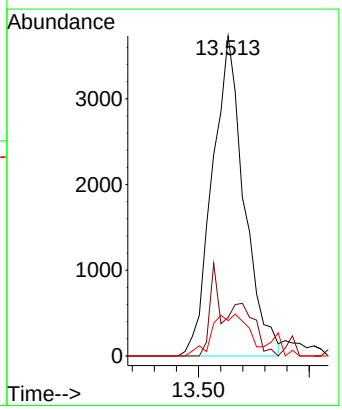




#79
Naphthalene
Concen: 0.069 ppbv
RT: 13.513 min Scan# 4148
Delta R.T. 0.000 min
Lab File: VL042379.D
Acq: 18 Apr 2025 03:03

Tgt Ion:128 Resp: 3721

Ion	Ratio	Lower	Upper
128	100		
127	12.0	10.6	15.8
129	11.1	8.6	12.8



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042380.D
Acq On : 18 Apr 2025 03:34
Operator : SY/MD
Sample : Q1726-05DL 20X
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025DL

Quant Time: Apr 18 04:41:49 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

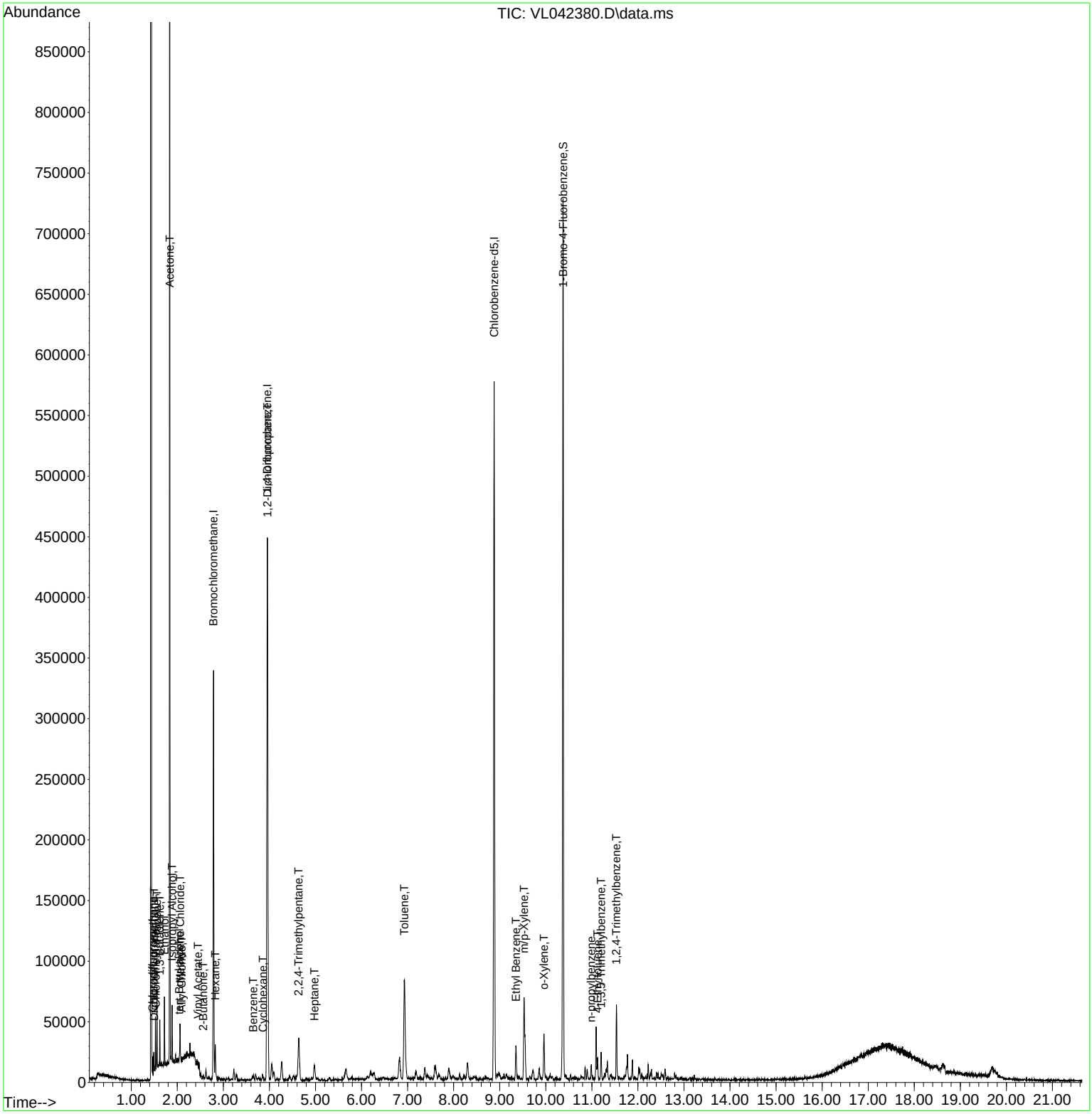
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.787	49	90034	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.955	114	252514	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.878	117	219443	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.374	95	187830	10.416	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 104.200%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.499	85	960	0.060	ppbv	#	76
3) Chlorodifluoromethane	1.466	51	4487	0.296	ppbv	#	61
4) Chloromethane	1.531	50	424	0.067	ppbv	#	57
9) Propene	1.557	41	6843	0.992	ppbv		89
10) Heptane	4.978	43	2751	0.142	ppbv	#	22
13) Ethanol	1.722	45	19984	18.226	ppbv		76
15) Acetone	1.835	43	563713	38.247	ppbv		98
16) 1,3-Butadiene	1.622	39	2227	0.316	ppbv	#	40
17) tert-Butyl alcohol	2.043	59	1182	0.065	ppbv	#	1
19) Isopropyl Alcohol	1.887	45	19270	2.354	ppbv	#	1
20) Methylene Chloride	2.062	84	4260	0.738	ppbv		96
21) Allyl Chloride	2.094	41	364	0.036	ppbv	#	34
23) Vinyl Acetate	2.450	43	1426	0.239	ppbv	#	1
26) Hexane	2.823	57	6487	0.441	ppbv	#	37
30) Cyclohexane	3.858	84	614	0.052	ppbv	#	1
34) 2-Butanone	2.564	43	1119	0.056	ppbv	#	81
36) Benzene	3.651	78	1309	0.048	ppbv	#	87
39) 1,2-Dichloropropane	3.959	63	68357	6.735	ppbv	#	22
44) 2,2,4-Trimethylpentane	4.635	57	29451	0.626	ppbv	#	90
53) Toluene	6.927	91	57048	1.745	ppbv		97
58) Ethyl Benzene	9.351	91	14493	0.333	ppbv		92
59) m/p-Xylene	9.529	91	41899	1.196	ppbv		98
60) o-Xylene	9.959	91	16128	0.457	ppbv		99
64) n-propylbenzene	10.982	120	462	0.035	ppbv		68
72) 4-Ethyltoluene	11.125	105	7252	0.168	ppbv	#	63
73) 1,3,5-Trimethylbenzene	11.202	105	7522	0.198	ppbv		98
74) 1,2,4-Trimethylbenzene	11.532	105	21924	0.493	ppbv	#	63

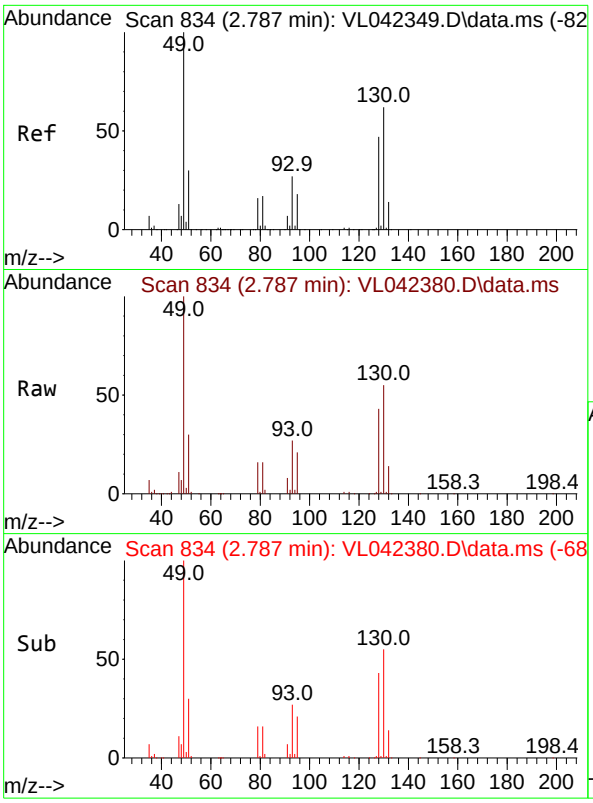
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042380.D
Acq On : 18 Apr 2025 03:34
Operator : SY/MD
Sample : Q1726-05DL 20X
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025DL

Quant Time: Apr 18 04:41:49 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



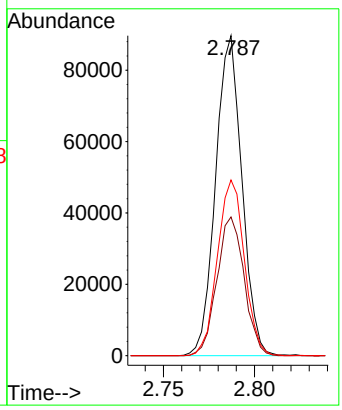


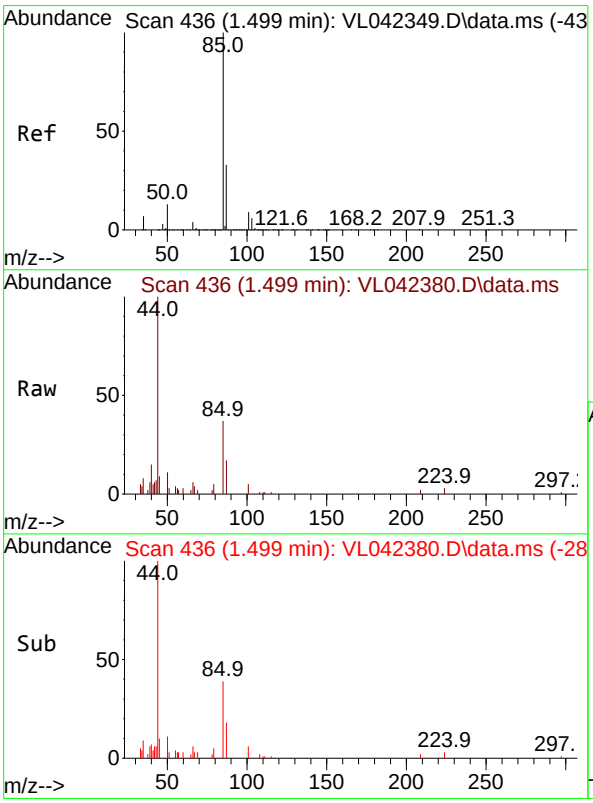
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 8
Delta R.T. 0.000 min
Lab File: VL042380.D
Acq: 18 Apr 2025 03:34

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025DL

Tgt Ion: 49 Resp: 90034

Ion	Ratio	Lower	Upper
49	100		
128	44.9	22.8	68.4
130	56.3	29.3	88.0

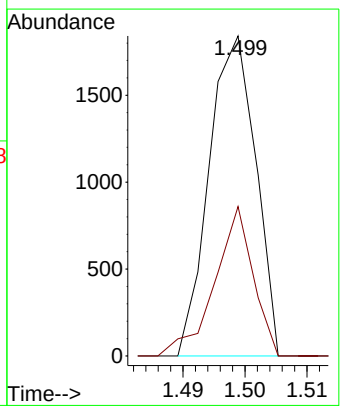


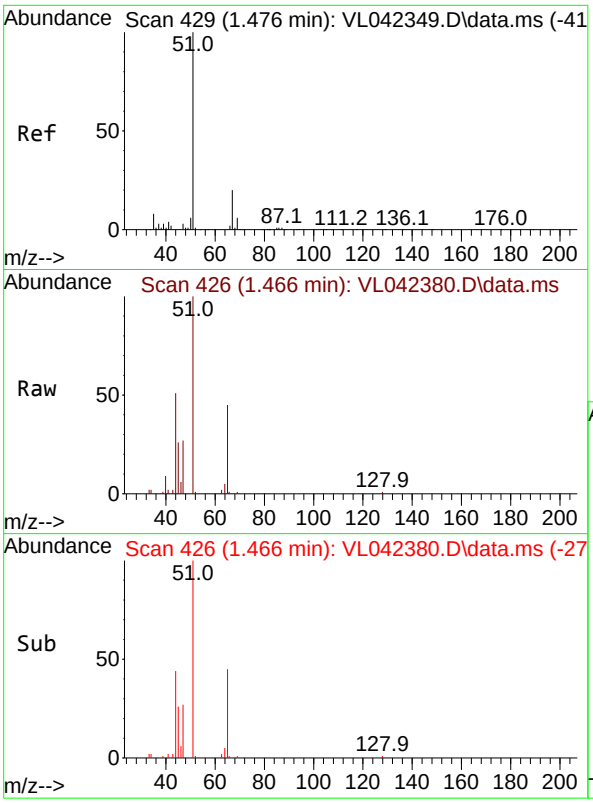


#2
Dichlorodifluoromethane
Concen: 0.060 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.000 min
Lab File: VL042380.D
Acq: 18 Apr 2025 03:34

Tgt Ion: 85 Resp: 960

Ion	Ratio	Lower	Upper
85	100		
87	46.7	26.6	39.8#



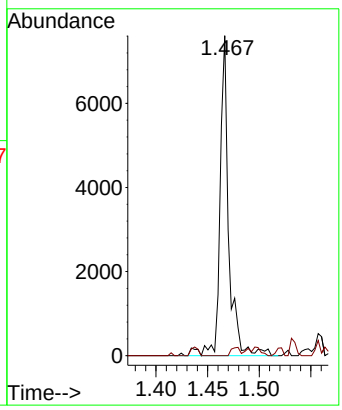


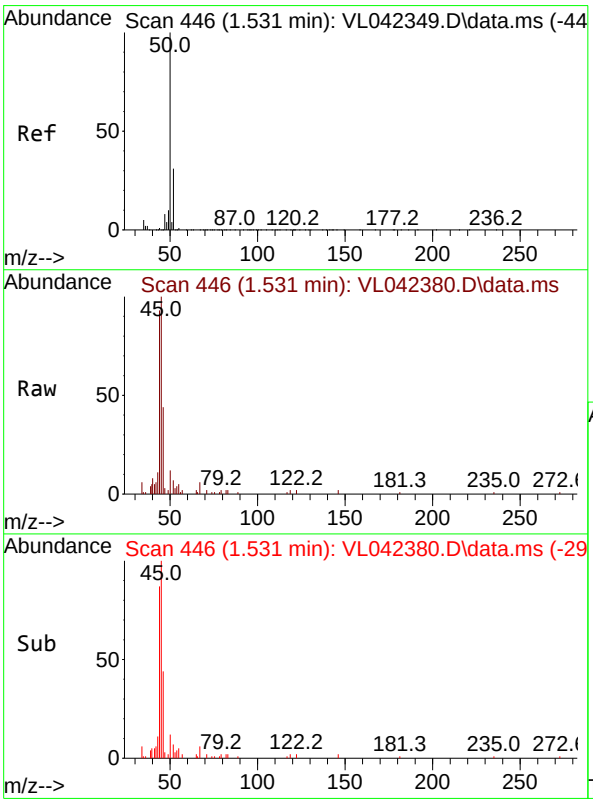
#3
Chlorodifluoromethane
Concen: 0.296 ppbv
RT: 1.466 min Scan# 4
Delta R.T. -0.010 min
Lab File: VL042380.D
Acq: 18 Apr 2025 03:34

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025DL

Tgt Ion: 51 Resp: 4487

Ion	Ratio	Lower	Upper
51	100		
67	2.3	16.2	24.4#

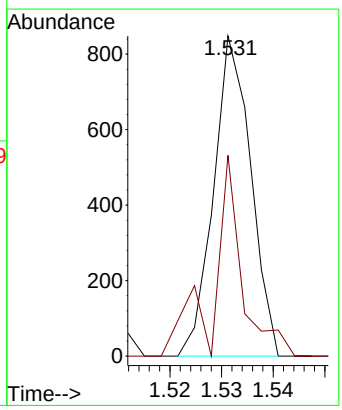


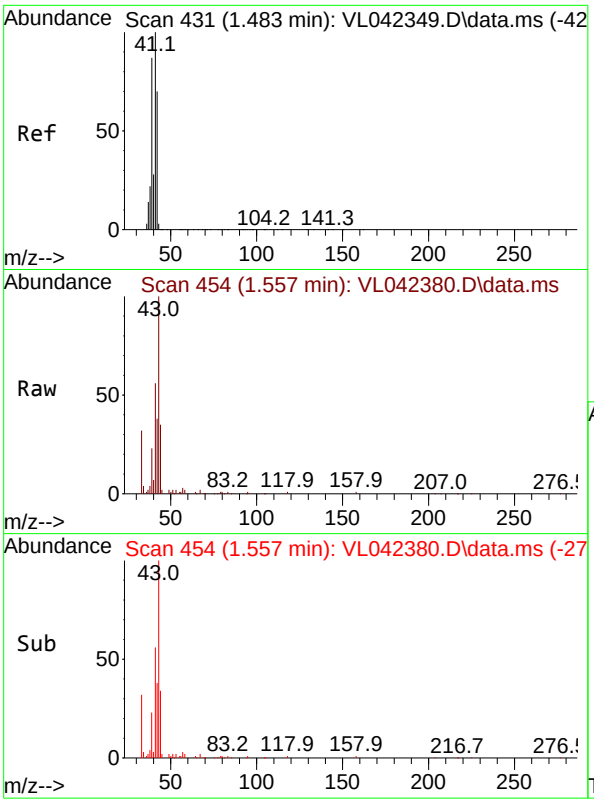


#4
Chloromethane
Concen: 0.067 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL042380.D
Acq: 18 Apr 2025 03:34

Tgt Ion: 50 Resp: 424

Ion	Ratio	Lower	Upper
50	100		
52	54.6	24.7	37.1#



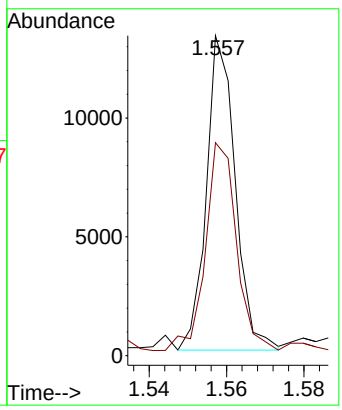


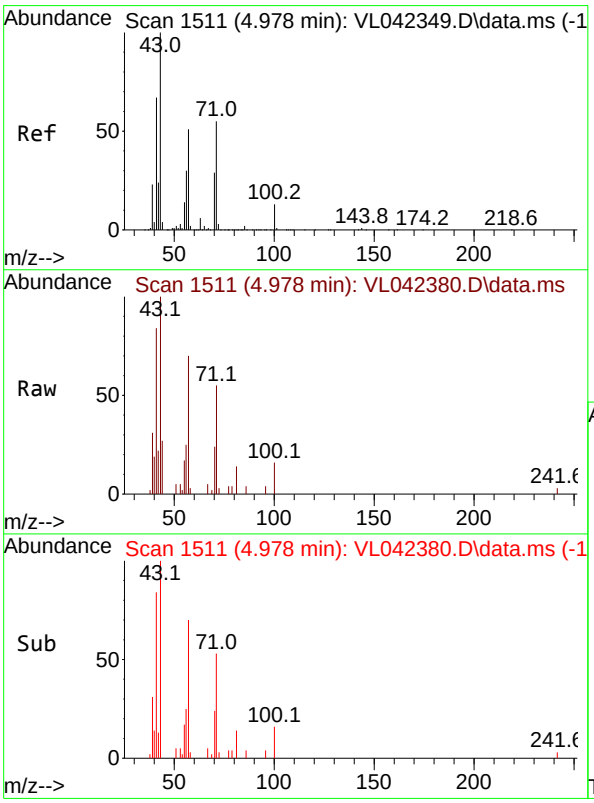
#9
Propene
Concen: 0.992 ppbv
RT: 1.557 min Scan# 4
Delta R.T. 0.075 min
Lab File: VL042380.D
Acq: 18 Apr 2025 03:34

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025DL

Tgt Ion: 41 Resp: 6843

Ion	Ratio	Lower	Upper
41	100		
42	79.1	56.2	84.4

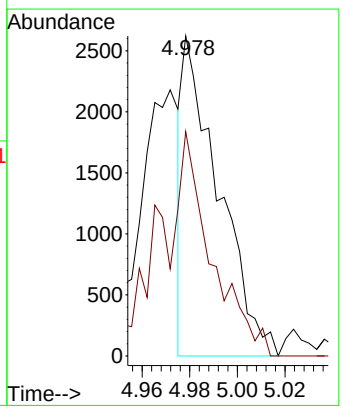


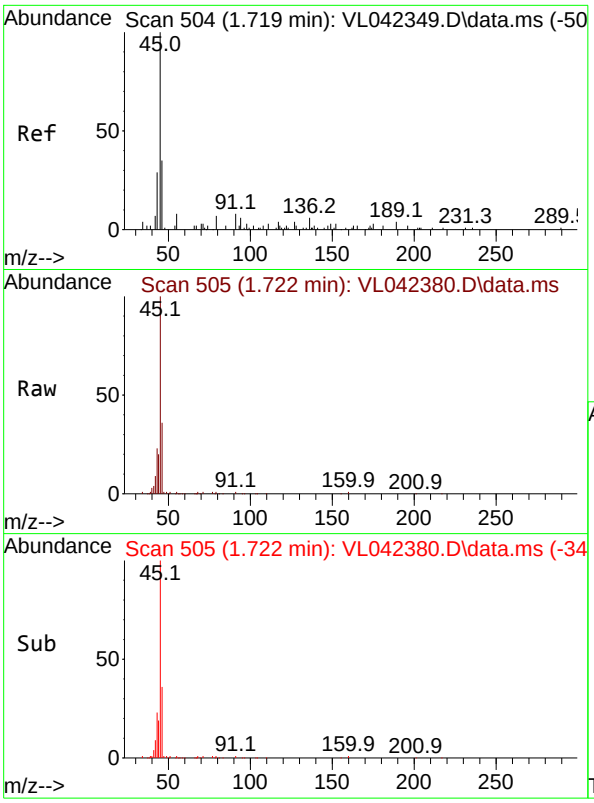


#10
Heptane
Concen: 0.142 ppbv
RT: 4.978 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VL042380.D
Acq: 18 Apr 2025 03:34

Tgt Ion: 43 Resp: 2751

Ion	Ratio	Lower	Upper
43	100		
57	103.3	39.9	59.9#



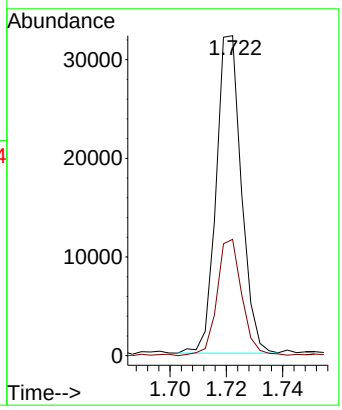


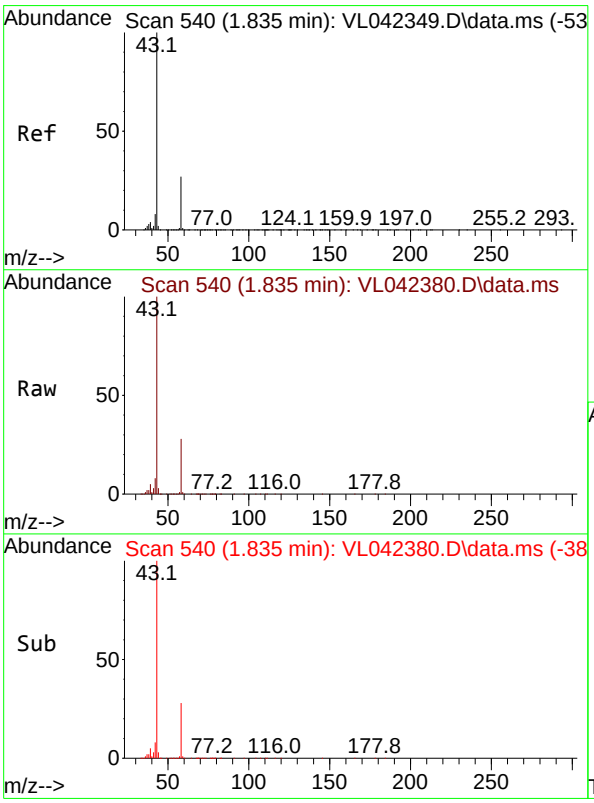
#13
Ethanol
Concen: 18.226 ppbv
RT: 1.722 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042380.D
Acq: 18 Apr 2025 03:34

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025DL

Tgt Ion: 45 Resp: 19984

Ion	Ratio	Lower	Upper
45	100		
46	37.5	21.9	87.7

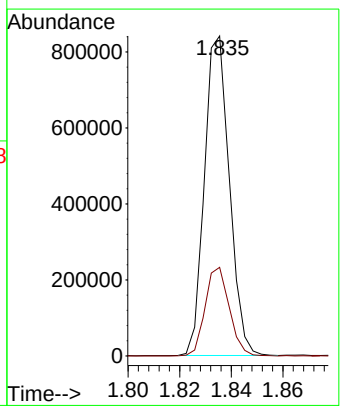


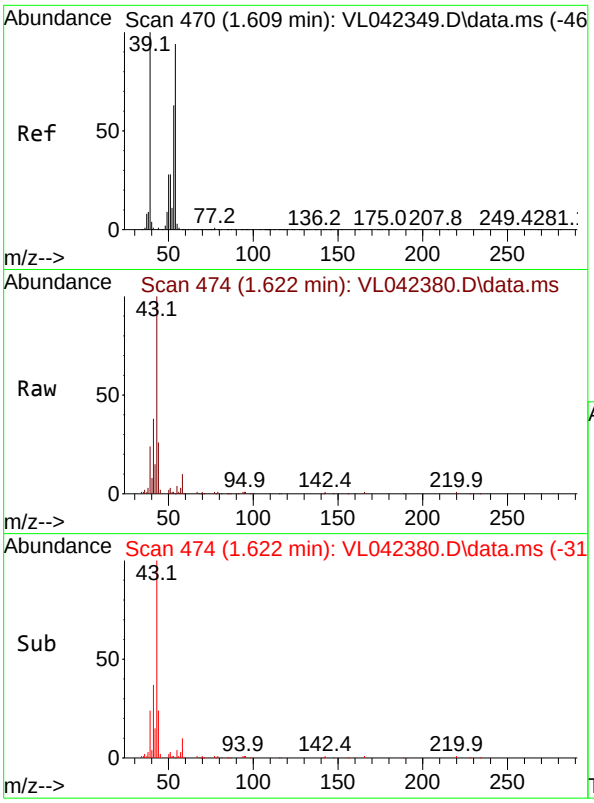


#15
Acetone
Concen: 38.247 ppbv
RT: 1.835 min Scan# 540
Delta R.T. 0.000 min
Lab File: VL042380.D
Acq: 18 Apr 2025 03:34

Tgt Ion: 43 Resp: 563713

Ion	Ratio	Lower	Upper
43	100		
58	27.0	22.4	33.6



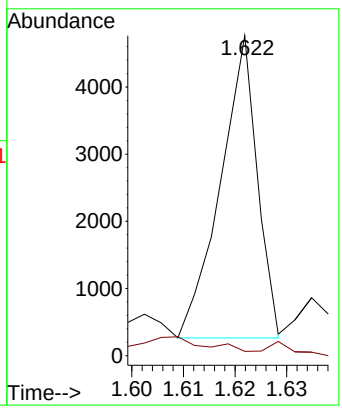


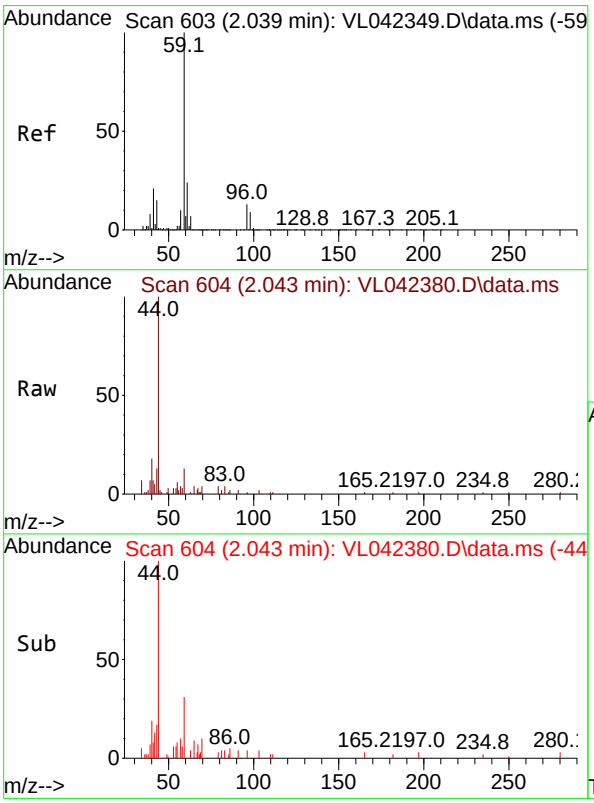
#16
1,3-Butadiene
Concen: 0.316 ppbv
RT: 1.622 min Scan# 4
Delta R.T. 0.013 min
Lab File: VL042380.D
Acq: 18 Apr 2025 03:34

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025DL

Tgt Ion: 39 Resp: 2227

Ion	Ratio	Lower	Upper
39	100		
54	27.4	64.9	97.3#

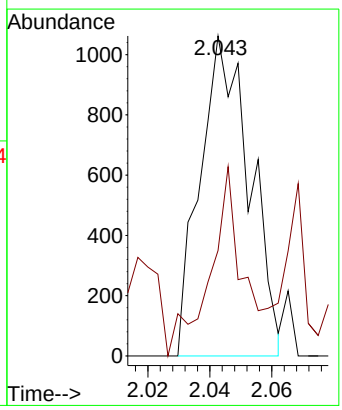


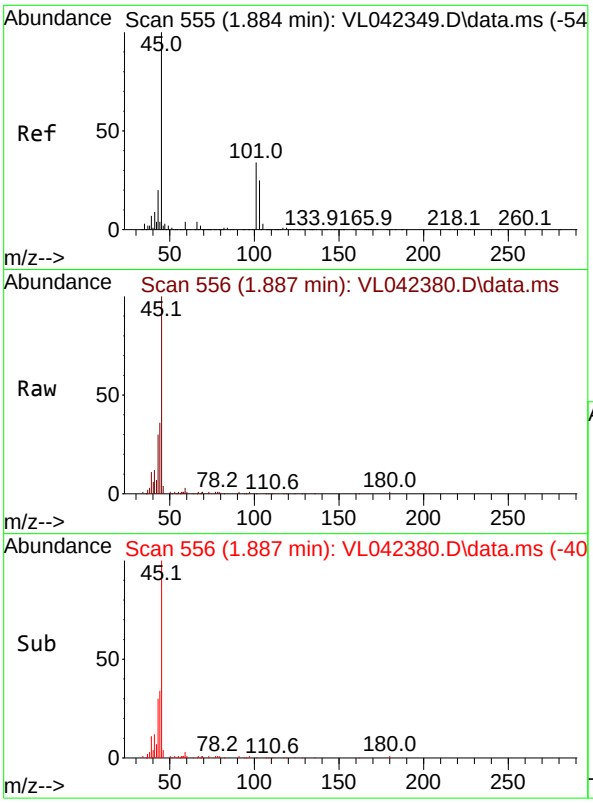


#17
tert-Butyl alcohol
Concen: 0.065 ppbv
RT: 2.043 min Scan# 604
Delta R.T. 0.003 min
Lab File: VL042380.D
Acq: 18 Apr 2025 03:34

Tgt Ion: 59 Resp: 1182

Ion	Ratio	Lower	Upper
59	100		
57	59.3	8.7	13.1#



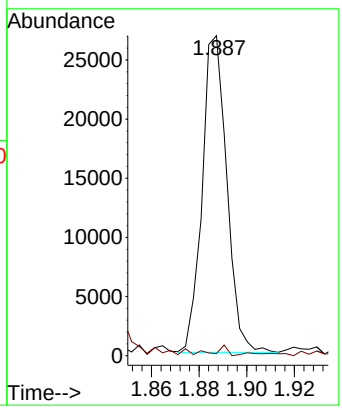


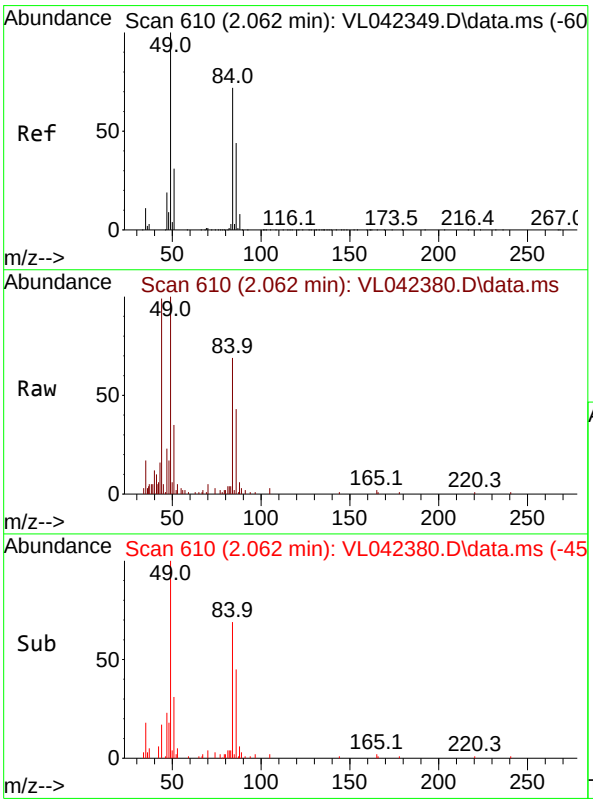
#19
Isopropyl Alcohol
Concen: 2.354 ppbv
RT: 1.887 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042380.D
Acq: 18 Apr 2025 03:34

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025DL

Tgt Ion: 45 Resp: 19270

Ion	Ratio	Lower	Upper
45	100		
58	790.9	34.5	51.7#

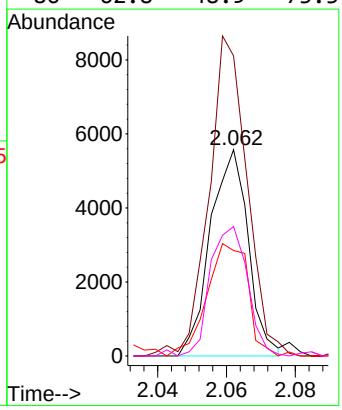


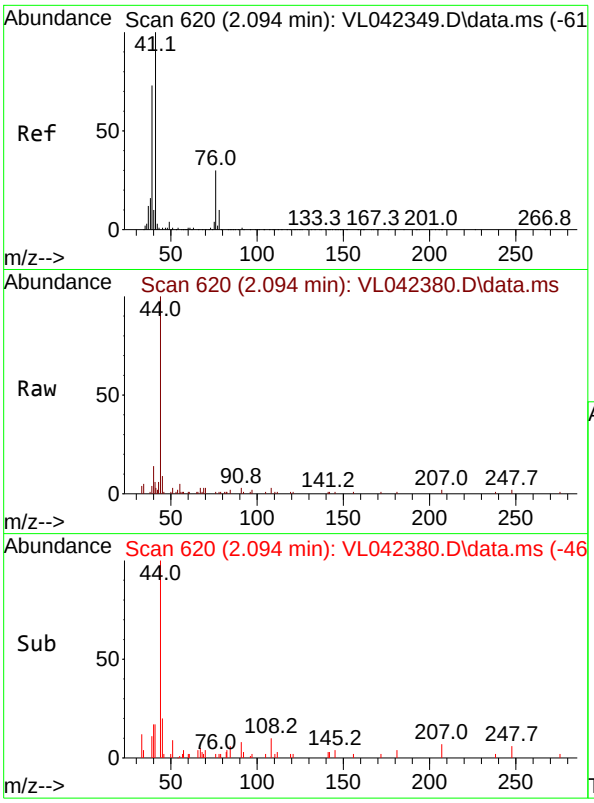


#20
Methylene Chloride
Concen: 0.738 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.000 min
Lab File: VL042380.D
Acq: 18 Apr 2025 03:34

Tgt Ion: 84 Resp: 4260

Ion	Ratio	Lower	Upper
84	100		
49	143.5	111.6	167.4
51	51.2	35.1	52.7
86	62.8	48.9	73.3



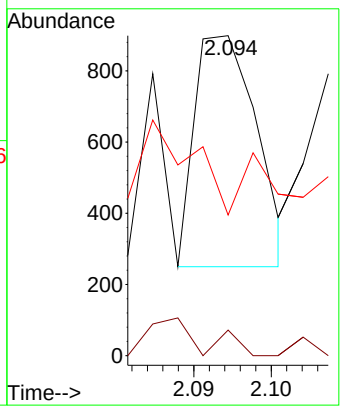


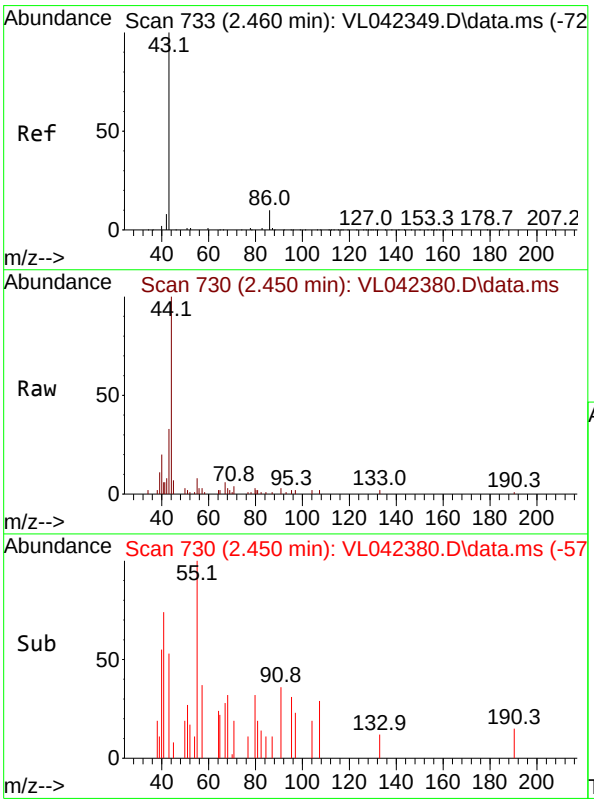
#21
Allyl Chloride
Concen: 0.036 ppbv
RT: 2.094 min Scan# 6
Delta R.T. 0.000 min
Lab File: VL042380.D
Acq: 18 Apr 2025 03:34

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025DL

Tgt Ion: 41 Resp: 364

Ion	Ratio	Lower	Upper
41	100		
76	24.7	24.8	37.2#
39	0.0	60.6	90.8#

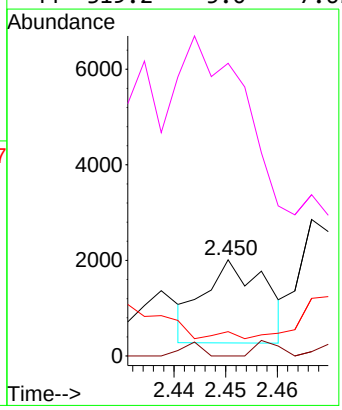


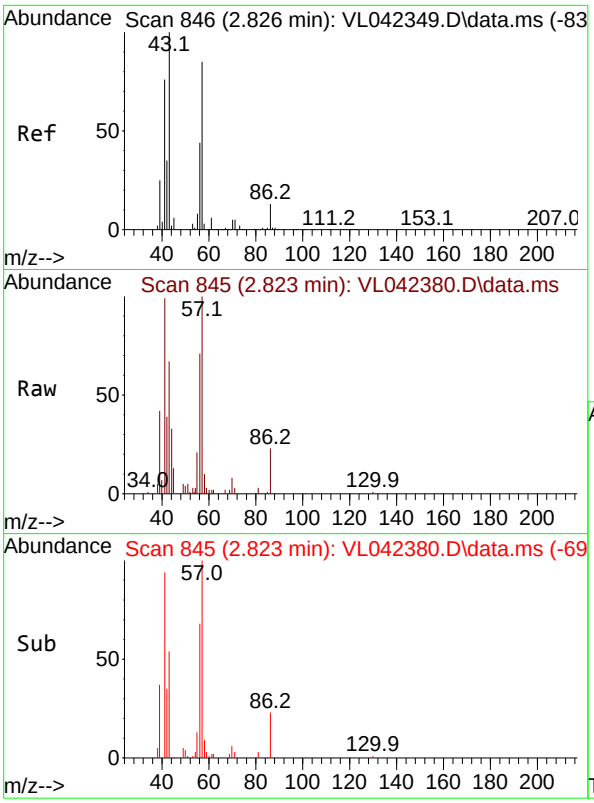


#23
Vinyl Acetate
Concen: 0.239 ppbv
RT: 2.450 min Scan# 730
Delta R.T. -0.010 min
Lab File: VL042380.D
Acq: 18 Apr 2025 03:34

Tgt Ion: 43 Resp: 1426

Ion	Ratio	Lower	Upper
43	100		
86	0.0	6.5	9.7#
42	3.6	7.8	11.8#
44	319.2	5.0	7.6#



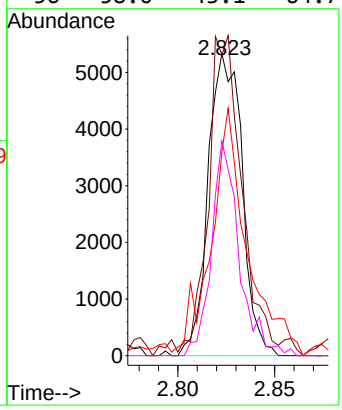


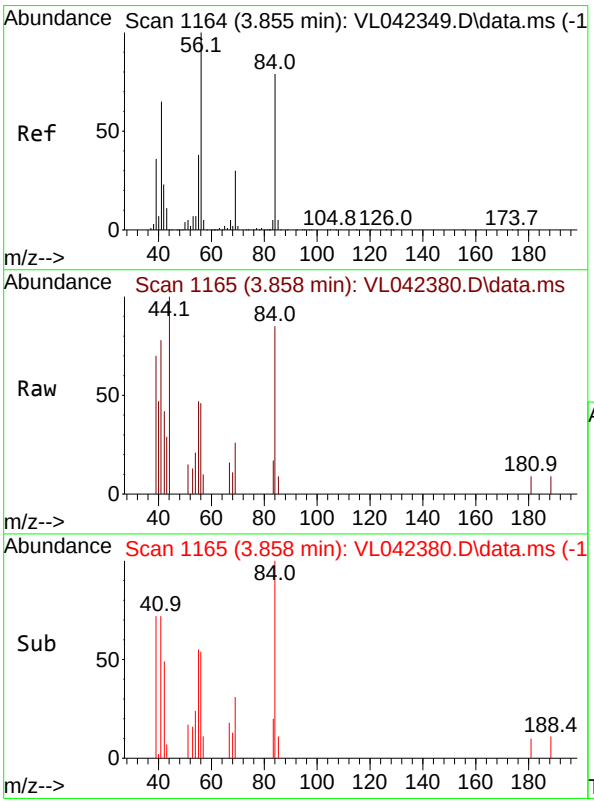
#26
Hexane
Concen: 0.441 ppbv
RT: 2.823 min Scan# 84
Delta R.T. -0.003 min
Lab File: VL042380.D
Acq: 18 Apr 2025 03:34

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025DL

Tgt Ion: 57 Resp: 6487

Ion	Ratio	Lower	Upper
57	100		
41	103.5	77.9	116.9
43	88.6	208.4	312.6#
56	58.0	43.1	64.7

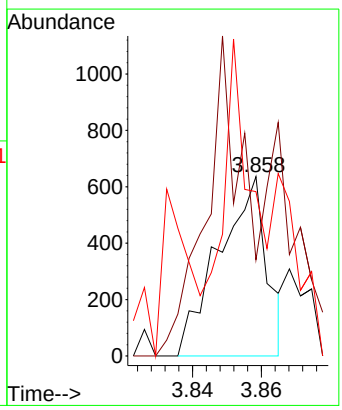


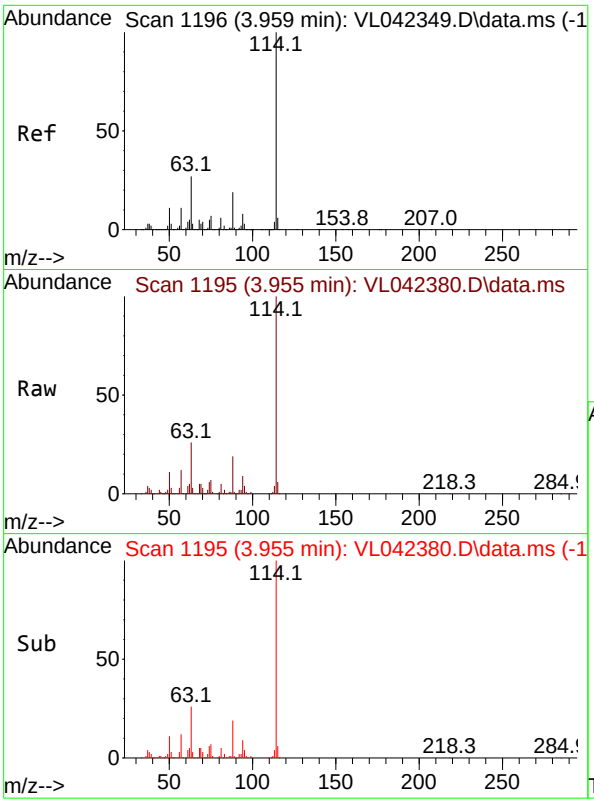


#30
Cyclohexane
Concen: 0.052 ppbv
RT: 3.858 min Scan# 1165
Delta R.T. 0.003 min
Lab File: VL042380.D
Acq: 18 Apr 2025 03:34

Tgt Ion: 84 Resp: 614

Ion	Ratio	Lower	Upper
84	100		
56	230.9	101.0	151.4#
41	232.4	67.4	101.0#



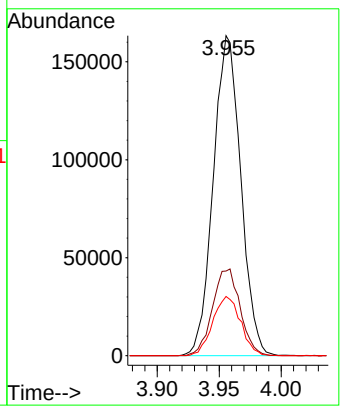


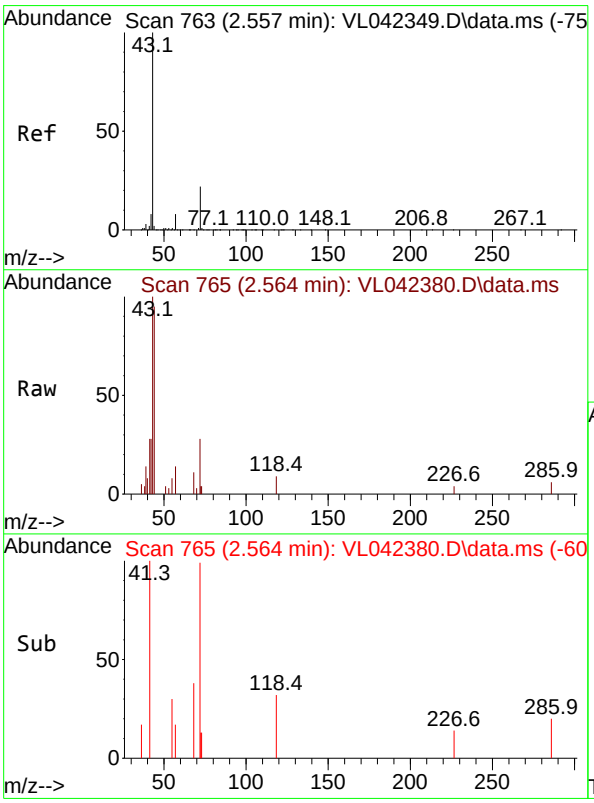
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.955 min Scan# 11
Delta R.T. -0.003 min
Lab File: VL042380.D
Acq: 18 Apr 2025 03:34

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025DL

Tgt Ion:114 Resp: 252514

Ion	Ratio	Lower	Upper
114	100		
63	27.2	21.8	32.6
88	18.8	15.5	23.3

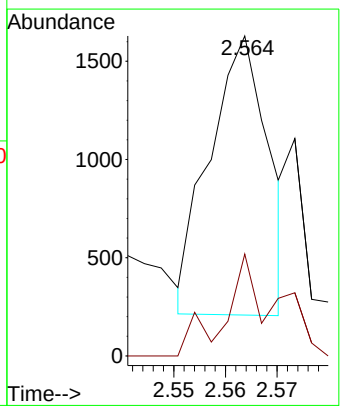


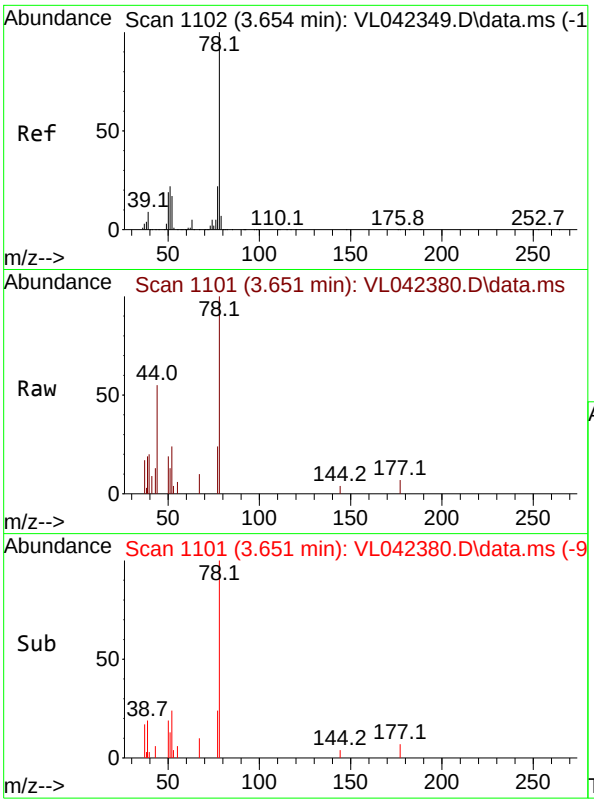


#34
2-Butanone
Concen: 0.056 ppbv
RT: 2.564 min Scan# 765
Delta R.T. 0.007 min
Lab File: VL042380.D
Acq: 18 Apr 2025 03:34

Tgt Ion: 43 Resp: 1119

Ion	Ratio	Lower	Upper
43	100		
72	31.9	18.2	27.2#



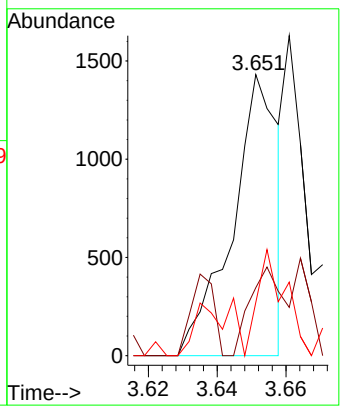


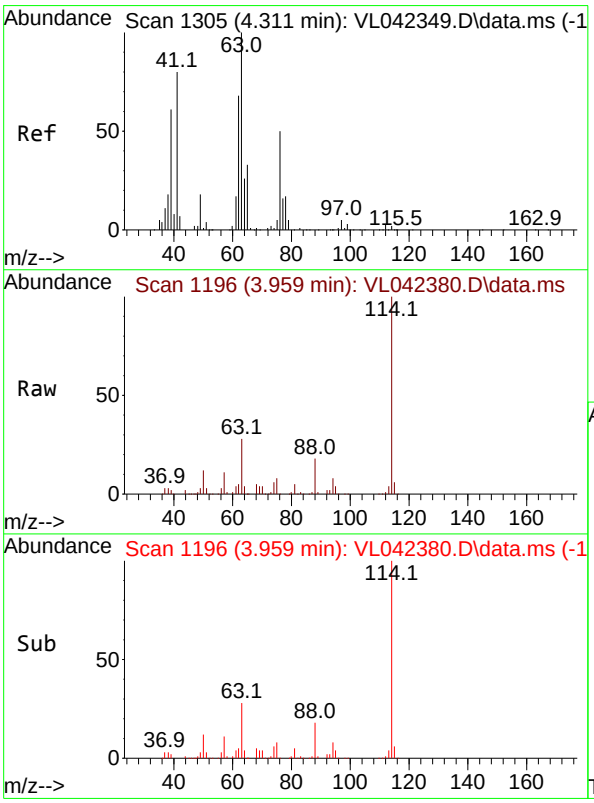
#36
Benzene
Concen: 0.048 ppbv
RT: 3.651 min Scan# 11
Delta R.T. -0.003 min
Lab File: VL042380.D
Acq: 18 Apr 2025 03:34

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025DL

Tgt Ion: 78 Resp: 1309

Ion	Ratio	Lower	Upper
78	100		
77	24.2	17.4	26.0
50	9.5	15.5	23.3#

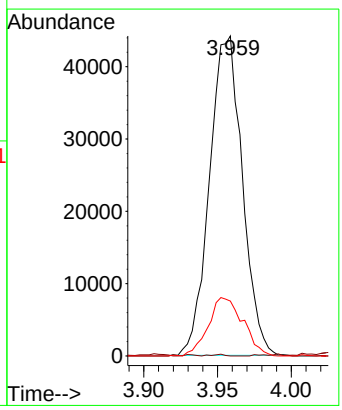


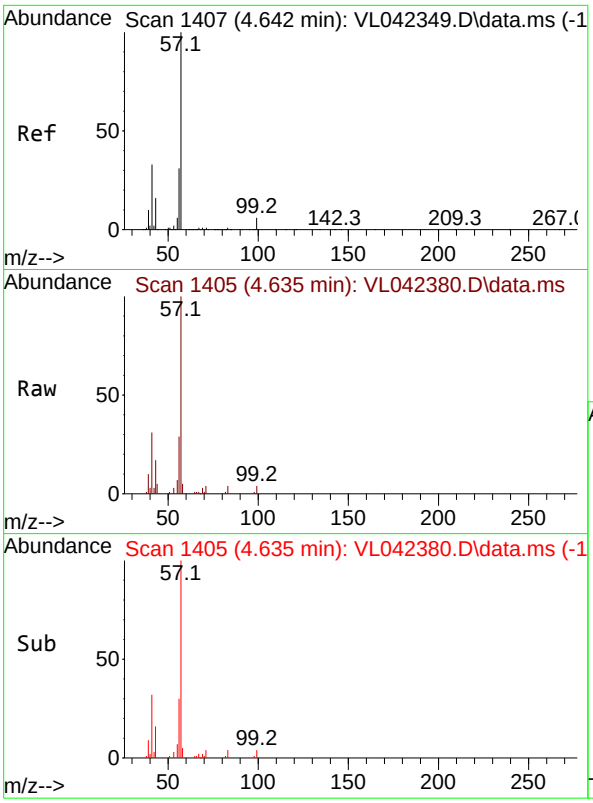


#39
1,2-Dichloropropane
Concen: 6.735 ppbv
RT: 3.959 min Scan# 1196
Delta R.T. -0.353 min
Lab File: VL042380.D
Acq: 18 Apr 2025 03:34

Tgt Ion: 63 Resp: 68357

Ion	Ratio	Lower	Upper
63	100		
41	0.0	64.2	96.2#
62	17.2	54.3	81.5#



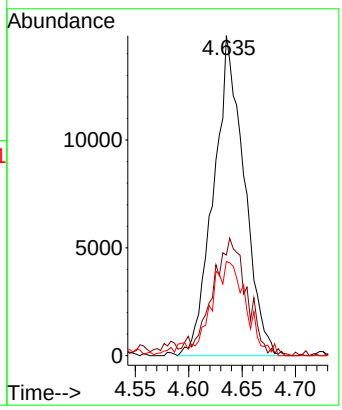


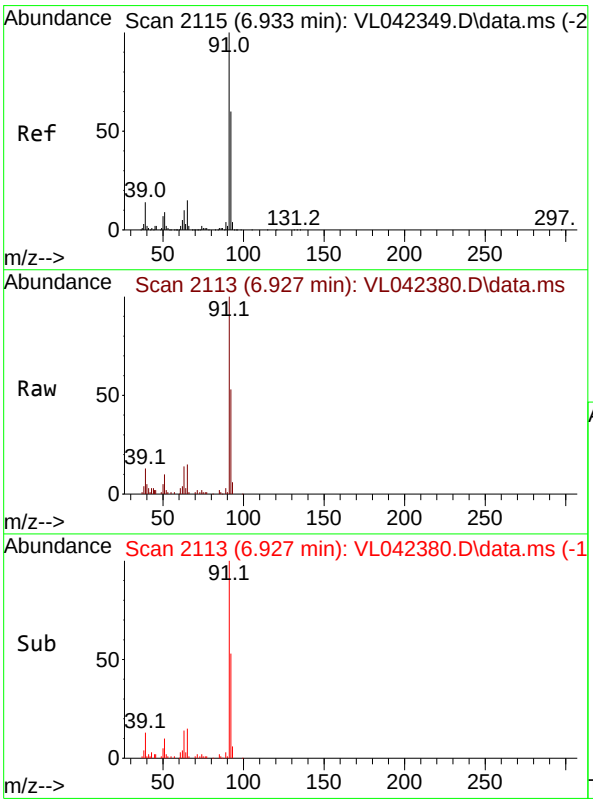
#44
2,2,4-Trimethylpentane
Concen: 0.626 ppbv
RT: 4.635 min Scan# 14
Delta R.T. -0.006 min
Lab File: VL042380.D
Acq: 18 Apr 2025 03:34

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025DL

Tgt Ion: 57 Resp: 29451

Ion	Ratio	Lower	Upper
57	100		
41	42.2	27.2	40.8#
56	35.5	25.7	38.5

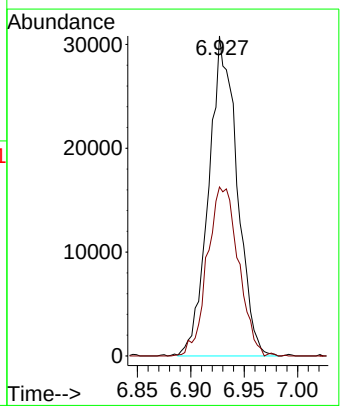


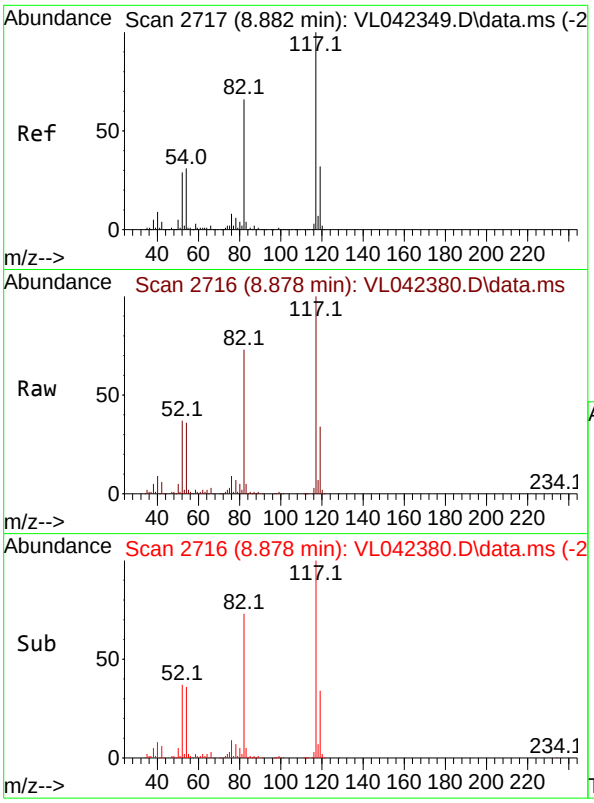


#53
Toluene
Concen: 1.745 ppbv
RT: 6.927 min Scan# 2113
Delta R.T. -0.006 min
Lab File: VL042380.D
Acq: 18 Apr 2025 03:34

Tgt Ion: 91 Resp: 57048

Ion	Ratio	Lower	Upper
91	100		
92	58.1	48.2	72.4



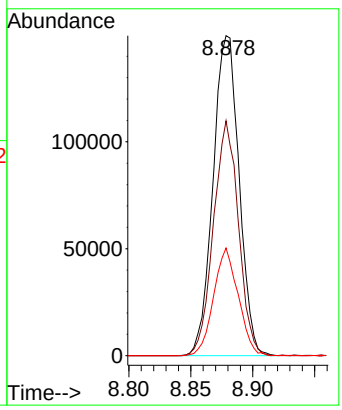


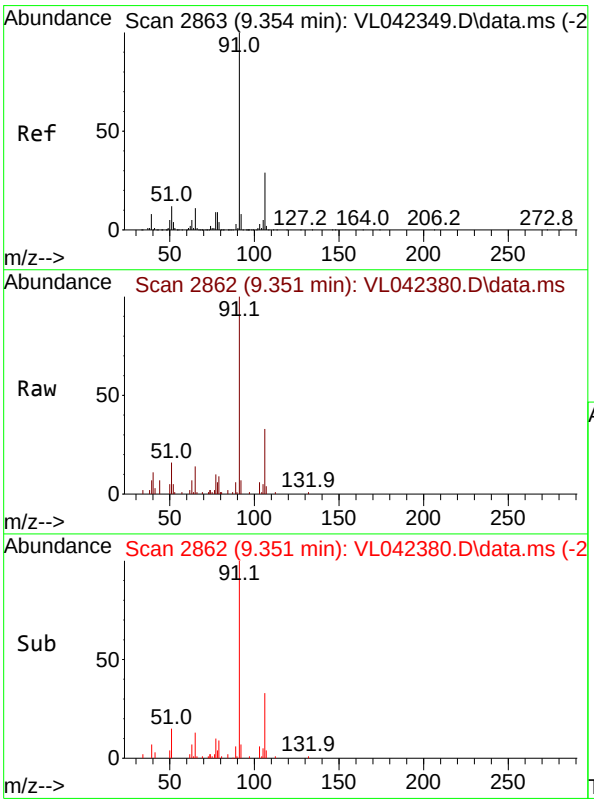
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.878 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL042380.D
Acq: 18 Apr 2025 03:34

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025DL

Tgt Ion:117 Resp: 219443

Ion	Ratio	Lower	Upper
117	100		
82	70.4	57.8	86.6
119	31.8	25.2	37.8

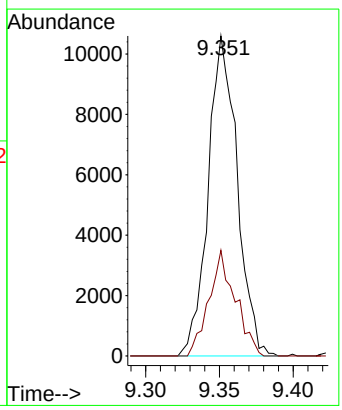


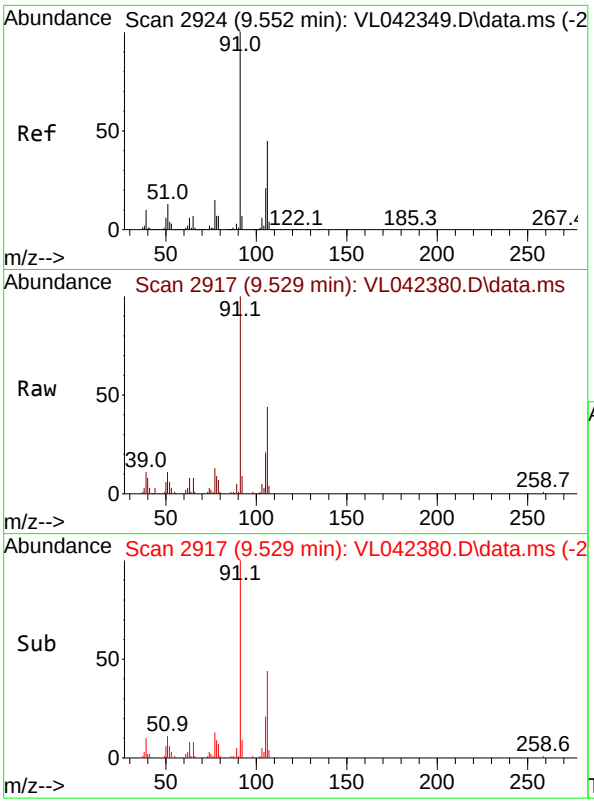


#58
Ethyl Benzene
Concen: 0.333 ppbv
RT: 9.351 min Scan# 2862
Delta R.T. -0.003 min
Lab File: VL042380.D
Acq: 18 Apr 2025 03:34

Tgt Ion: 91 Resp: 14493

Ion	Ratio	Lower	Upper
91	100		
106	33.0	23.0	34.4



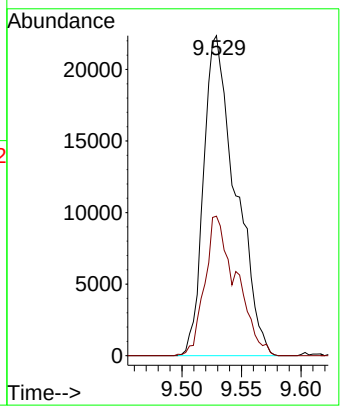


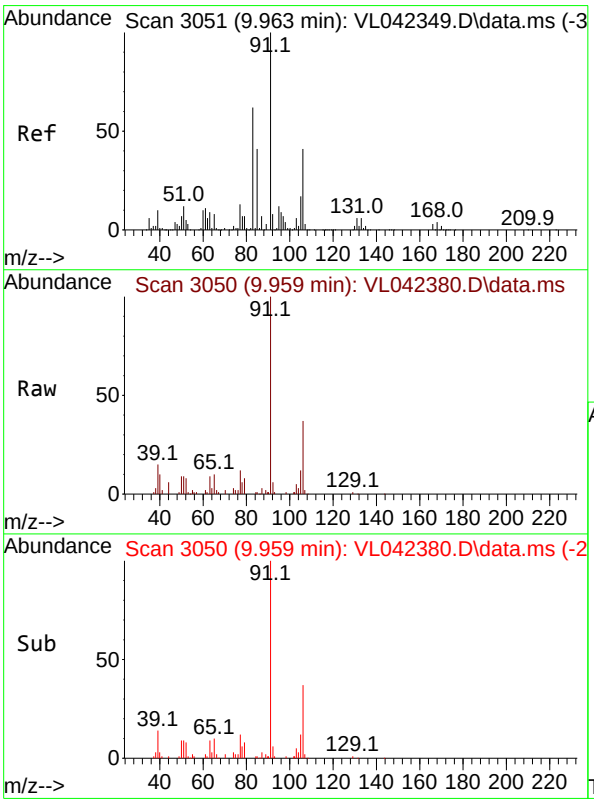
#59
m/p-Xylene
Concen: 1.196 ppbv
RT: 9.529 min Scan# 2
Delta R.T. -0.023 min
Lab File: VL042380.D
Acq: 18 Apr 2025 03:34

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025DL

Tgt Ion: 91 Resp: 41899

Ion	Ratio	Lower	Upper
91	100		
106	43.0	35.4	53.2

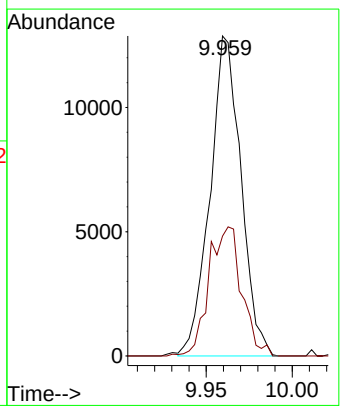


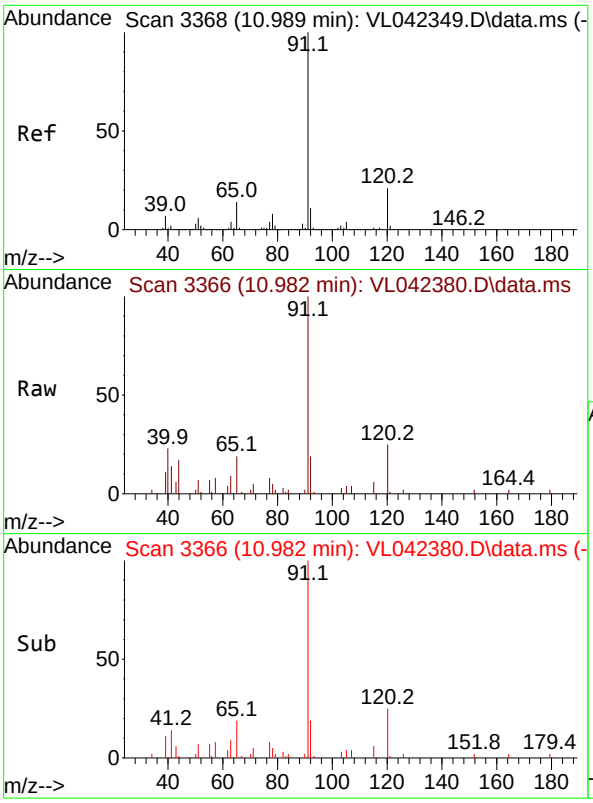


#60
o-Xylene
Concen: 0.457 ppbv
RT: 9.959 min Scan# 3050
Delta R.T. -0.003 min
Lab File: VL042380.D
Acq: 18 Apr 2025 03:34

Tgt Ion: 91 Resp: 16128

Ion	Ratio	Lower	Upper
91	100		
106	42.8	21.1	63.4



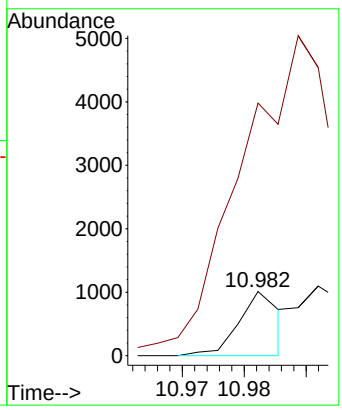


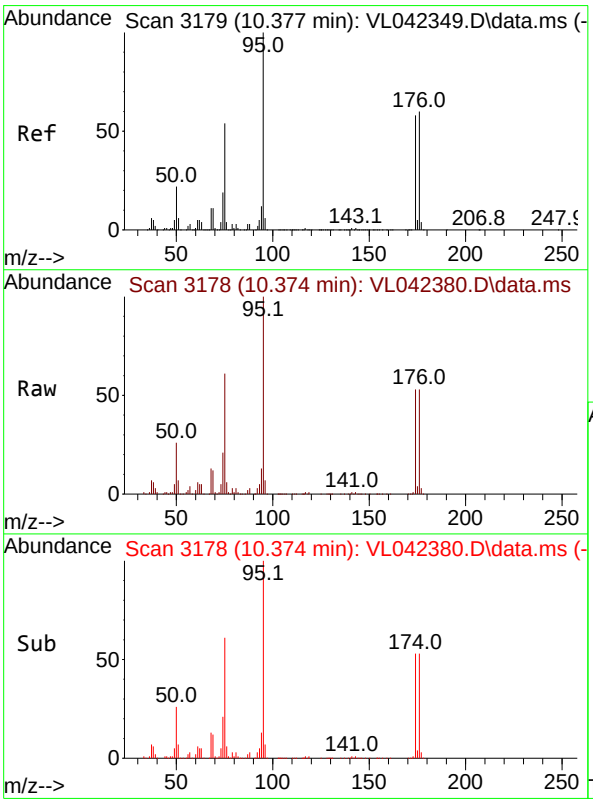
#64
n-propylbenzene
Concen: 0.035 ppbv
RT: 10.982 min Scan# 3
Delta R.T. -0.006 min
Lab File: VL042380.D
Acq: 18 Apr 2025 03:34

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025DL

Tgt Ion:120 Resp: 462

Ion	Ratio	Lower	Upper
120	100		
91	404.5	392.4	588.6

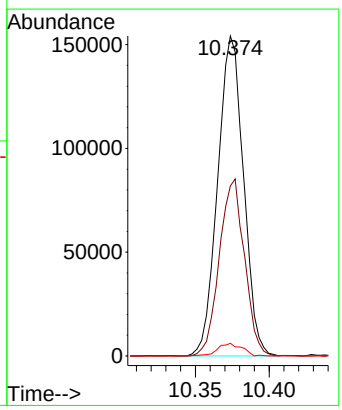


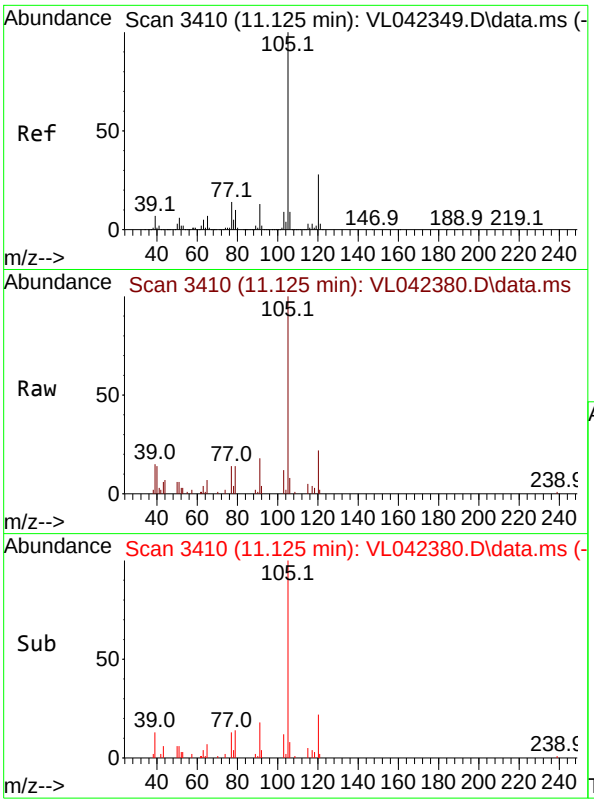


#68
1-Bromo-4-Fluorobenzene
Concen: 10.416 ppbv
RT: 10.374 min Scan# 3178
Delta R.T. -0.003 min
Lab File: VL042380.D
Acq: 18 Apr 2025 03:34

Tgt Ion: 95 Resp: 187830

Ion	Ratio	Lower	Upper
95	100		
174	53.9	48.5	72.7
175	3.8	3.7	5.5



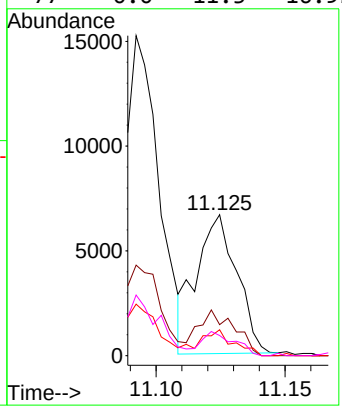


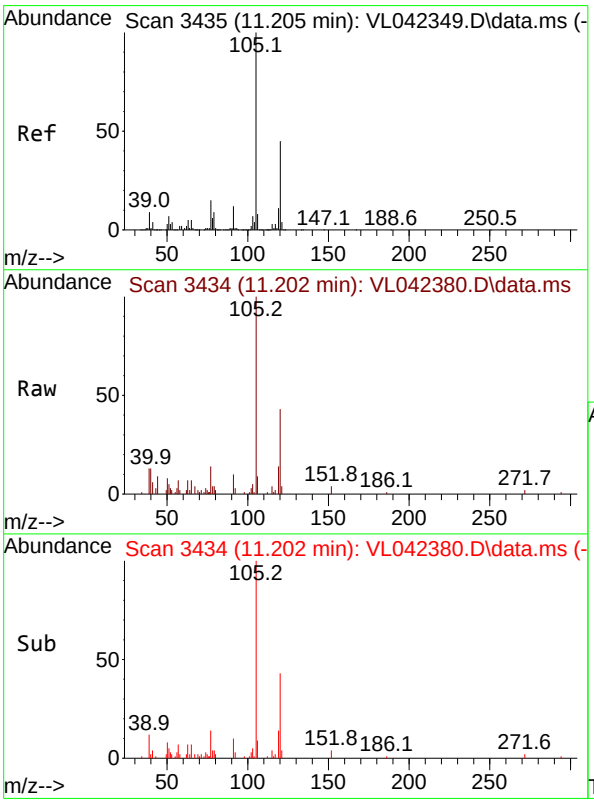
#72
4-Ethyltoluene
Concen: 0.168 ppbv
RT: 11.125 min Scan# 34
Delta R.T. 0.000 min
Lab File: VL042380.D
Acq: 18 Apr 2025 03:34

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025DL

Tgt Ion:105 Resp: 7252

Ion	Ratio	Lower	Upper
105	100		
120	0.0	23.2	34.8#
91	13.8	10.4	15.6
77	0.0	11.3	16.9#

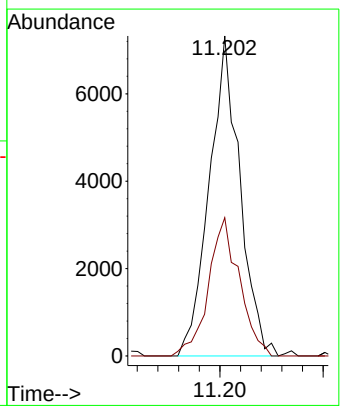


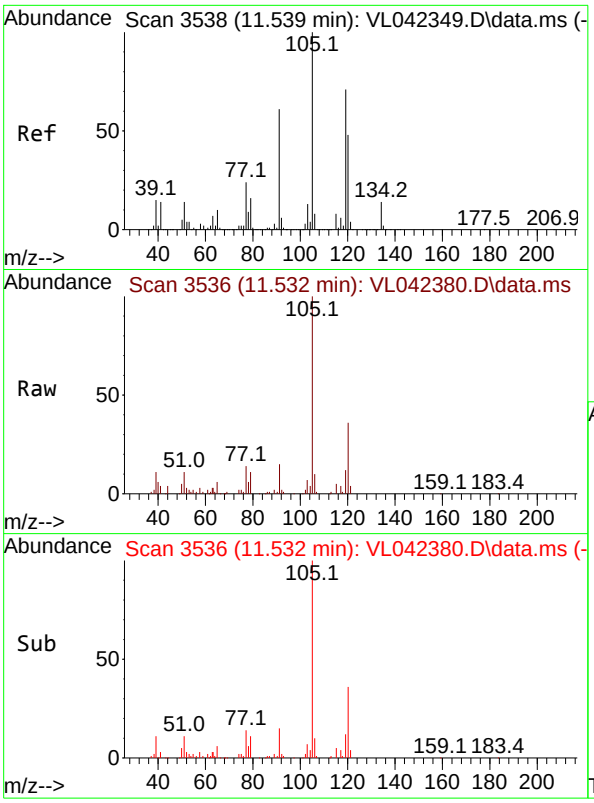


#73
1,3,5-Trimethylbenzene
Concen: 0.198 ppbv
RT: 11.202 min Scan# 3434
Delta R.T. -0.003 min
Lab File: VL042380.D
Acq: 18 Apr 2025 03:34

Tgt Ion:105 Resp: 7522

Ion	Ratio	Lower	Upper
105	100		
120	43.2	35.6	53.4



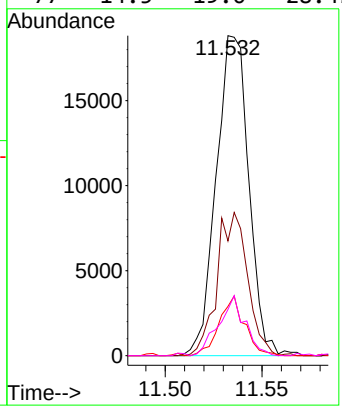


#74
1,2,4-Trimethylbenzene
Concen: 0.493 ppbv
RT: 11.532 min Scan# 3
Delta R.T. -0.006 min
Lab File: VL042380.D
Acq: 18 Apr 2025 03:34

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025DL

Tgt Ion:105 Resp: 21924

Ion	Ratio	Lower	Upper
105	100		
120	35.8	38.1	57.1#
91	15.0	48.8	73.2#
77	14.5	19.0	28.4#



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042381.D
Acq On : 18 Apr 2025 04:05
Operator : SY/MD
Sample : Q1726-06DL 20X
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025DL

Quant Time: Apr 18 04:42:23 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 02:14:00 2025
Response via : Initial Calibration

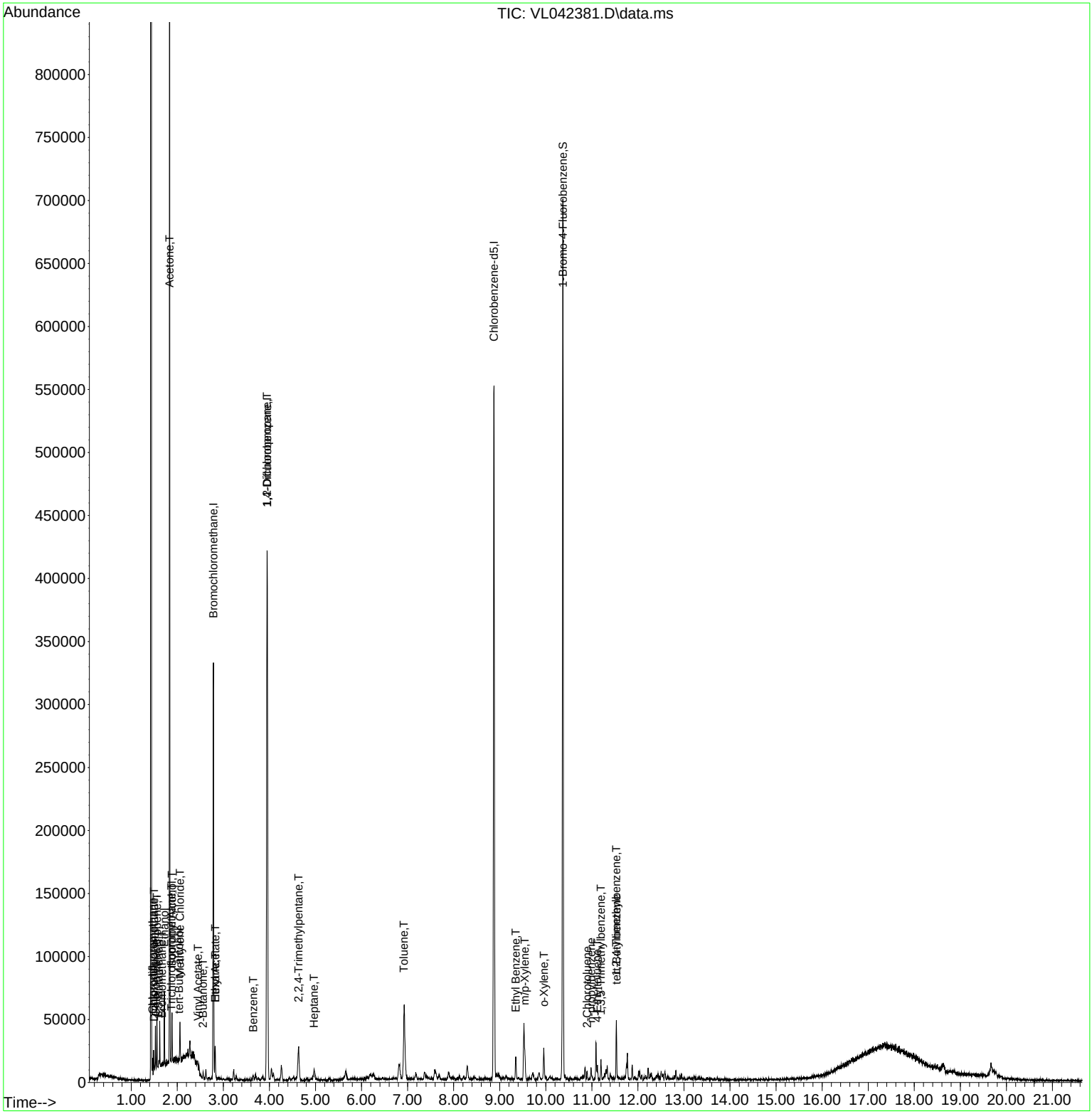
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.784	49	87593	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	246915	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	211054	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.370	95	179405	10.344	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 103.400%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.495	85	894	0.058	ppbv	93
3) Chlorodifluoromethane	1.463	51	3346	0.227	ppbv #	66
4) Chloromethane	1.531	50	759	0.124	ppbv #	44
6) Bromomethane	1.670	94	191	0.067	ppbv #	38
9) Propene	1.557	41	4626	0.689	ppbv	91
10) Heptane	4.965	43	1342	0.071	ppbv #	1
11) Trichlorofluoromethane	1.874	101	451	0.031	ppbv	92
13) Ethanol	1.719	45	19745	18.510	ppbv	80
15) Acetone	1.832	43	477735	33.317	ppbv	98
16) 1,3-Butadiene	1.596	39	417	0.061	ppbv #	9
17) tert-Butyl alcohol	2.039	59	1001	0.056	ppbv #	1
19) Isopropyl Alcohol	1.884	45	17914	2.249	ppbv #	1
20) Methylene Chloride	2.059	84	4126	0.735	ppbv #	82
23) Vinyl Acetate	2.450	43	1889	0.325	ppbv #	1
25) Ethyl Acetate	2.822	43	5205	0.147	ppbv #	89
26) Hexane	2.822	57	5952	0.416	ppbv #	35
34) 2-Butanone	2.557	43	2882	0.148	ppbv #	85
36) Benzene	3.651	78	1608	0.060	ppbv	96
39) 1,2-Dichloropropane	3.949	63	65524	6.602	ppbv #	23
44) 2,2,4-Trimethylpentane	4.635	57	22777	0.495	ppbv	93
53) Toluene	6.917	91	15104	0.473	ppbv #	1
58) Ethyl Benzene	9.348	91	9155	0.219	ppbv	90
59) m/p-Xylene	9.542	91	7000	0.208	ppbv #	32
60) o-Xylene	9.959	91	10141	0.299	ppbv	100
64) n-propylbenzene	10.982	120	805	0.064	ppbv	99
65) tert-Butylbenzene	11.536	119	1537	0.034	ppbv #	52
71) 2-Chlorotoluene	10.898	91	2092	0.054	ppbv	95
72) 4-Ethyltoluene	11.118	105	3845	0.093	ppbv #	56
73) 1,3,5-Trimethylbenzene	11.196	105	4940	0.135	ppbv	87
74) 1,2,4-Trimethylbenzene	11.532	105	16215	0.379	ppbv #	61

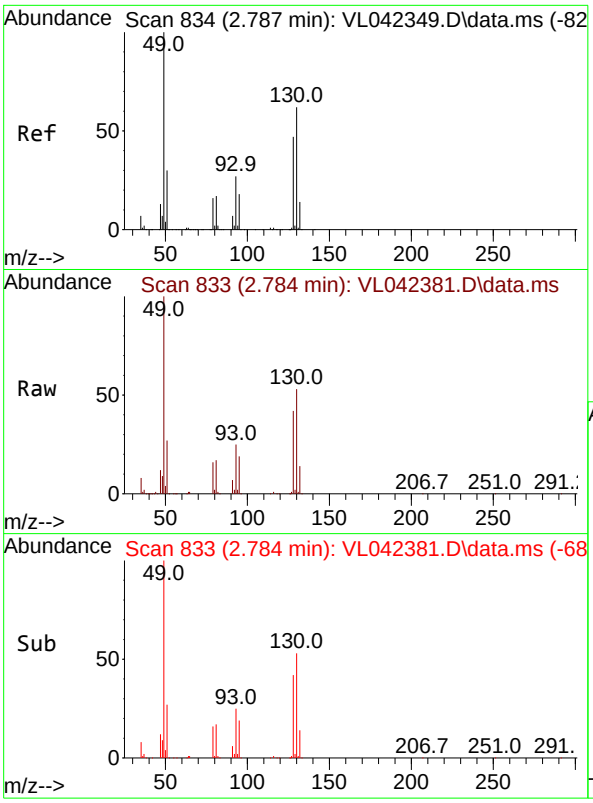
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042381.D
Acq On : 18 Apr 2025 04:05
Operator : SY/MD
Sample : Q1726-06DL 20X
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025DL

Quant Time: Apr 18 04:42:23 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 02:14:00 2025
Response via : Initial Calibration



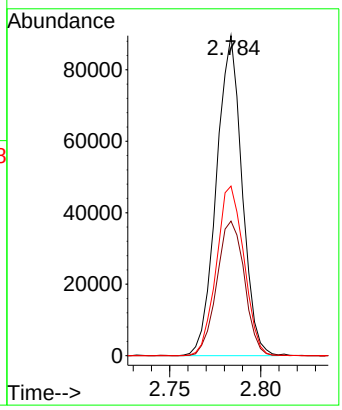


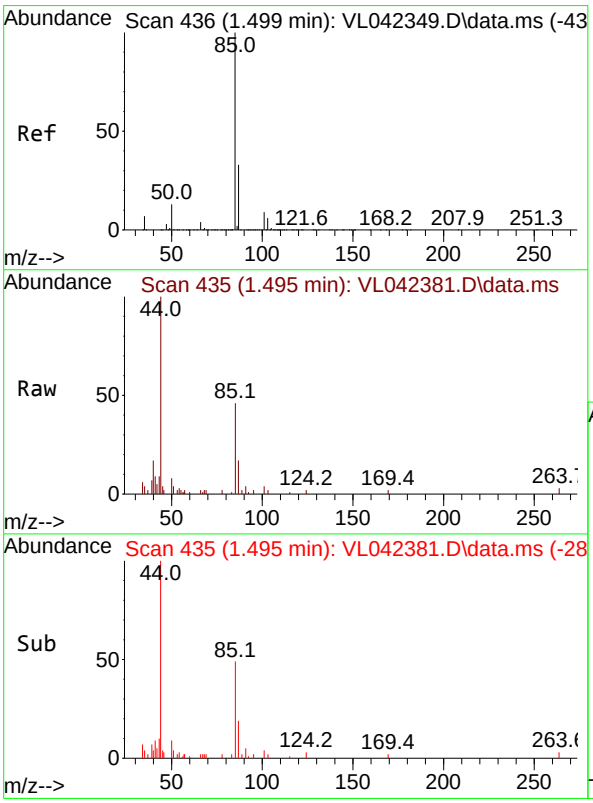
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 8
Delta R.T. -0.003 min
Lab File: VL042381.D
Acq: 18 Apr 2025 04:05

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025DL

Tgt Ion: 49 Resp: 87593

Ion	Ratio	Lower	Upper
49	100		
128	45.3	22.8	68.4
130	56.9	29.3	88.0

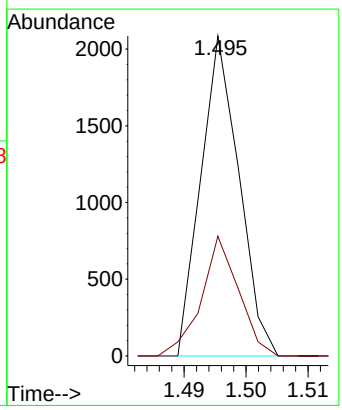


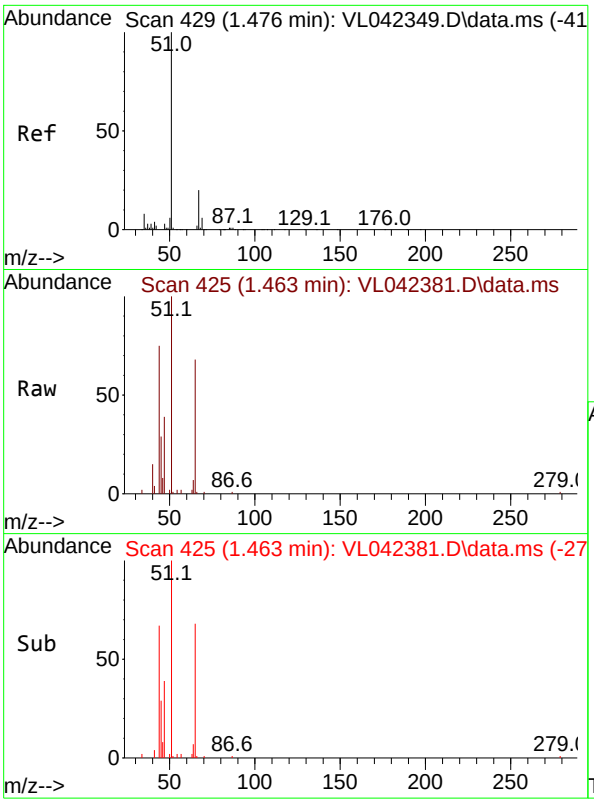


#2
Dichlorodifluoromethane
Concen: 0.058 ppbv
RT: 1.495 min Scan# 435
Delta R.T. -0.003 min
Lab File: VL042381.D
Acq: 18 Apr 2025 04:05

Tgt Ion: 85 Resp: 894

Ion	Ratio	Lower	Upper
85	100		
87	37.4	26.6	39.8



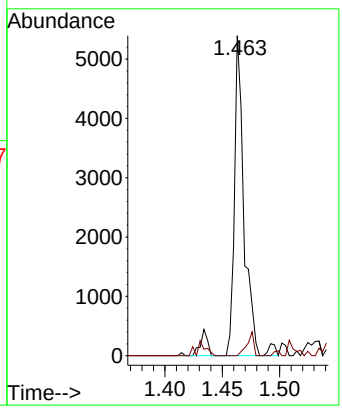


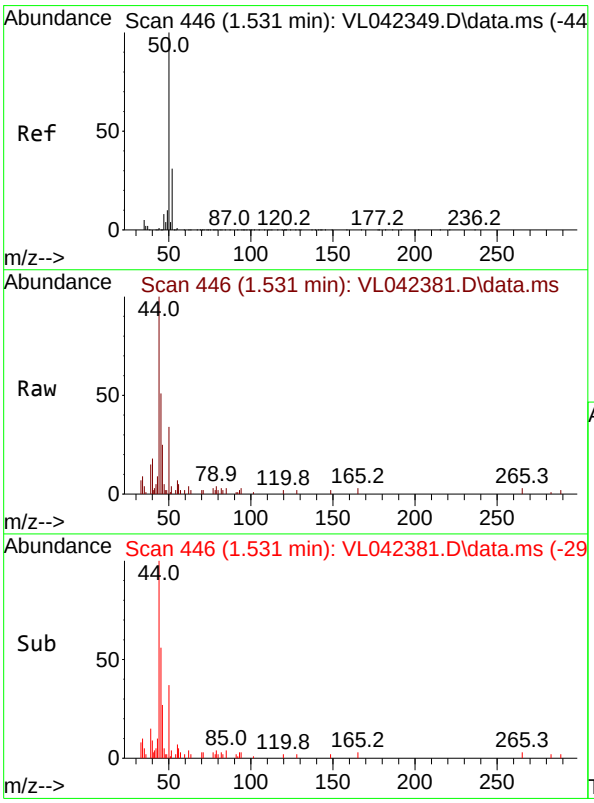
#3
Chlorodifluoromethane
Concen: 0.227 ppbv
RT: 1.463 min Scan# 4
Delta R.T. -0.013 min
Lab File: VL042381.D
Acq: 18 Apr 2025 04:05

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025DL

Tgt Ion: 51 Resp: 3346

Ion	Ratio	Lower	Upper
51	100		
67	4.8	16.2	24.4#

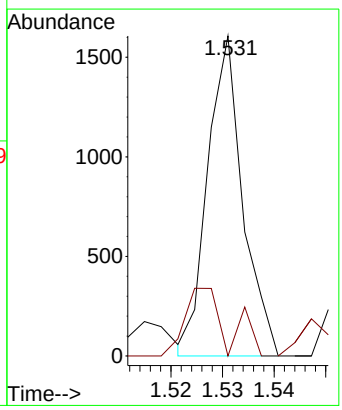


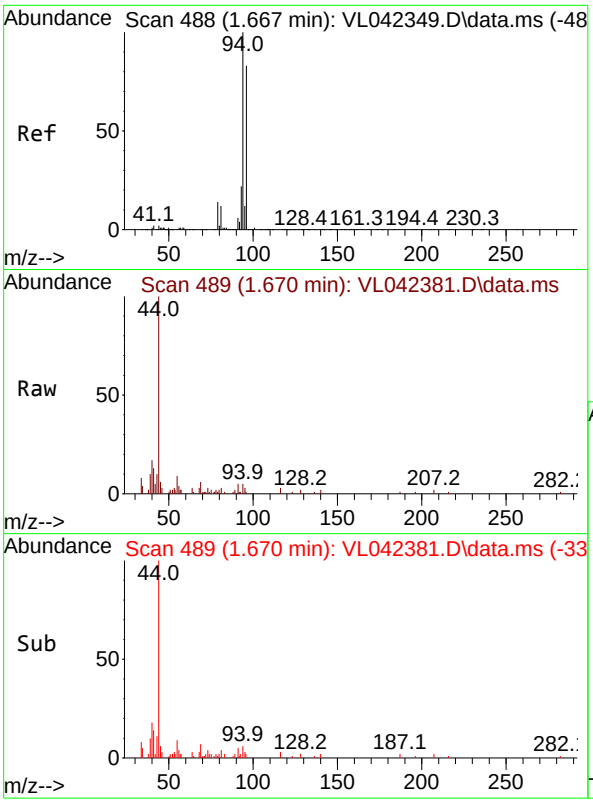


#4
Chloromethane
Concen: 0.124 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042381.D
Acq: 18 Apr 2025 04:05

Tgt Ion: 50 Resp: 759

Ion	Ratio	Lower	Upper
50	100		
52	0.0	24.7	37.1#



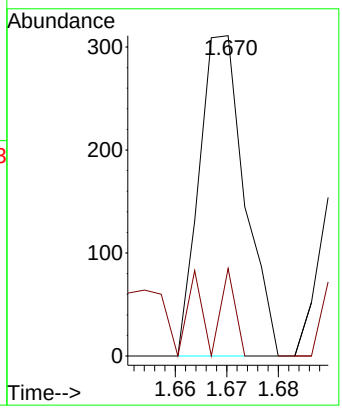


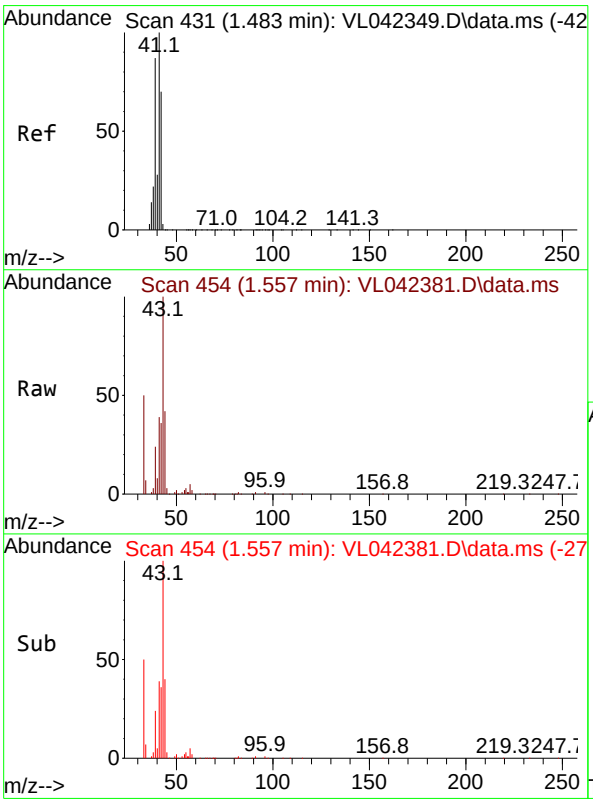
#6
Bromomethane
Concen: 0.067 ppbv
RT: 1.670 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL042381.D
Acq: 18 Apr 2025 04:05

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025DL

Tgt Ion: 94 Resp: 191

Ion	Ratio	Lower	Upper
94	100		
96	27.3	66.2	99.2#

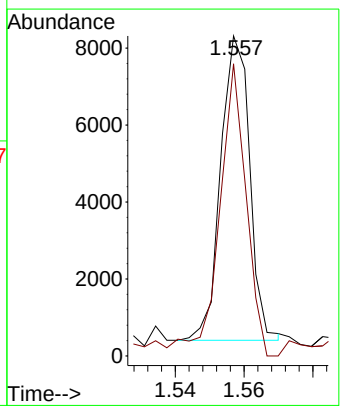


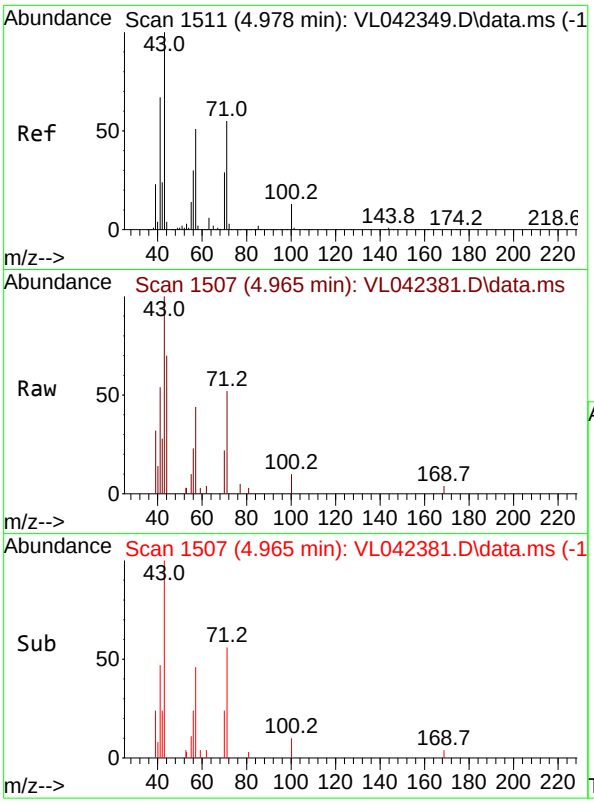


#9
Propene
Concen: 0.689 ppbv
RT: 1.557 min Scan# 454
Delta R.T. 0.074 min
Lab File: VL042381.D
Acq: 18 Apr 2025 04:05

Tgt Ion: 41 Resp: 4626

Ion	Ratio	Lower	Upper
41	100		
42	77.8	56.2	84.4



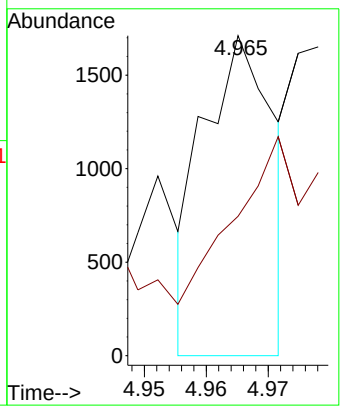


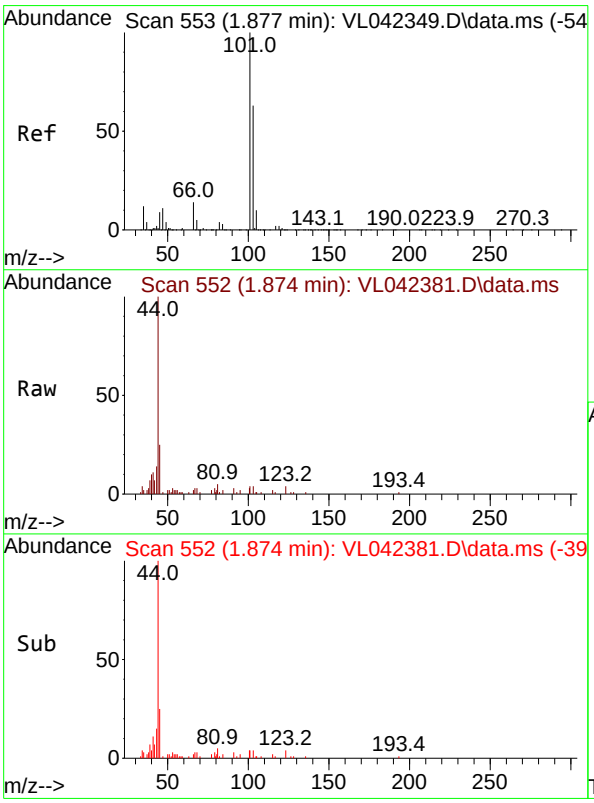
#10
Heptane
Concen: 0.071 ppbv
RT: 4.965 min Scan# 1
Delta R.T. -0.013 min
Lab File: VL042381.D
Acq: 18 Apr 2025 04:05

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025DL

Tgt Ion: 43 Resp: 1342

Ion	Ratio	Lower	Upper
43	100		
57	149.6	39.9	59.9#

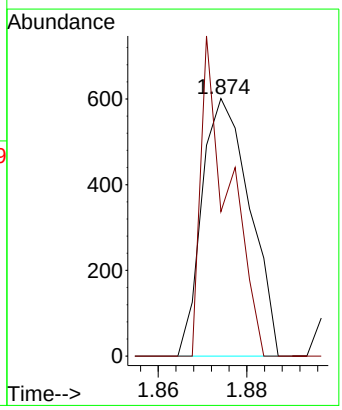


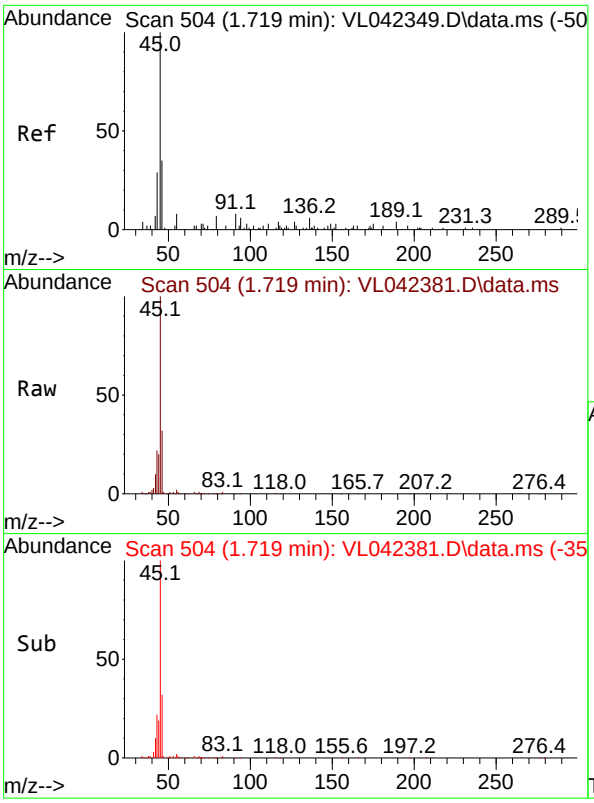


#11
Trichlorofluoromethane
Concen: 0.031 ppbv
RT: 1.874 min Scan# 552
Delta R.T. -0.003 min
Lab File: VL042381.D
Acq: 18 Apr 2025 04:05

Tgt Ion:101 Resp: 451

Ion	Ratio	Lower	Upper
101	100		
103	56.1	50.1	75.1



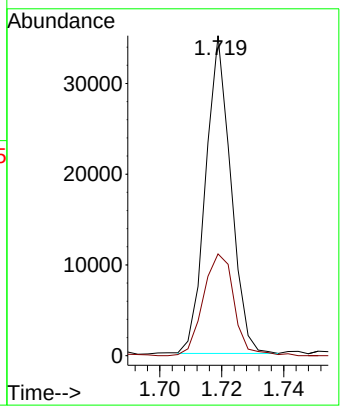


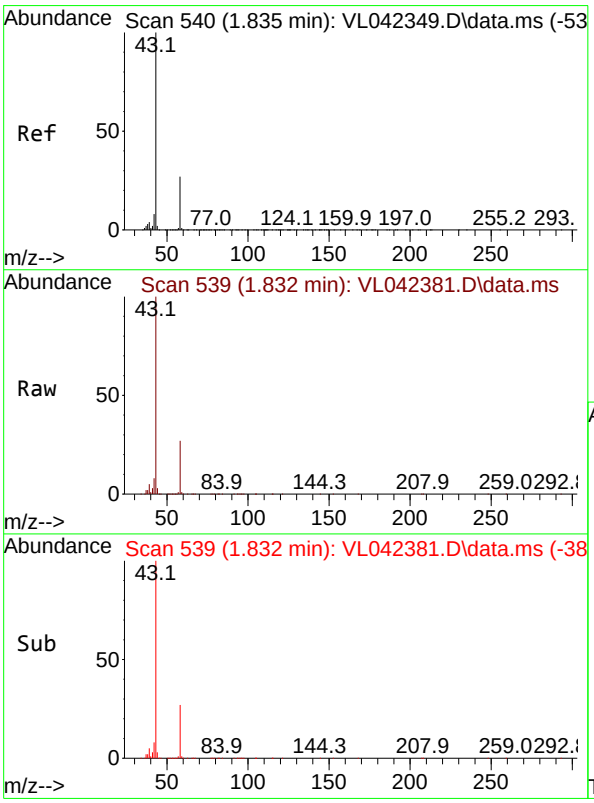
#13
Ethanol
Concen: 18.510 ppbv
RT: 1.719 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL042381.D
Acq: 18 Apr 2025 04:05

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025DL

Tgt Ion: 45 Resp: 19745

Ion	Ratio	Lower	Upper
45	100		
46	40.4	21.9	87.7

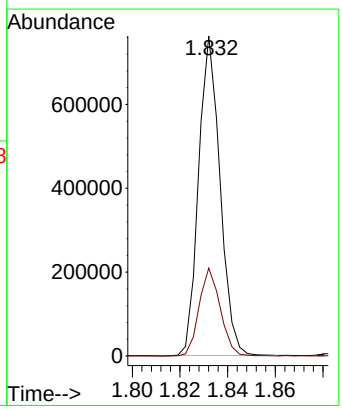


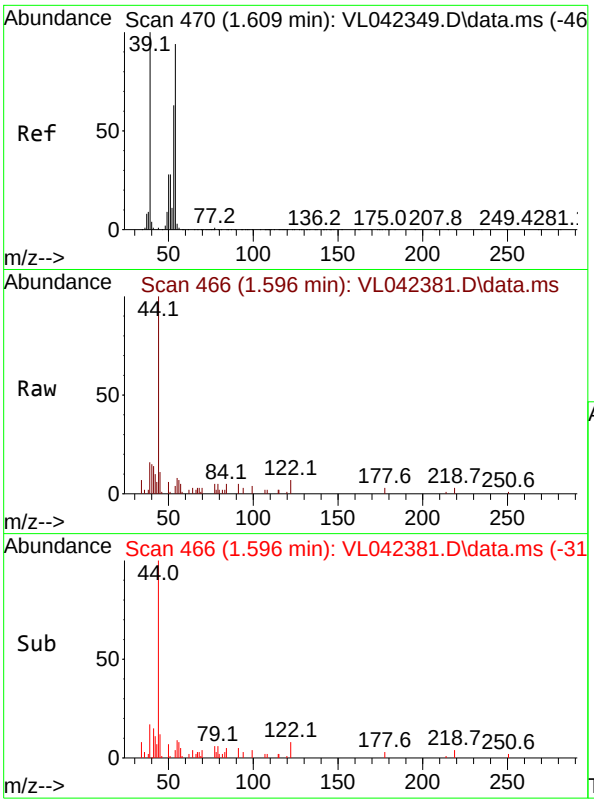


#15
Acetone
Concen: 33.317 ppbv
RT: 1.832 min Scan# 539
Delta R.T. -0.003 min
Lab File: VL042381.D
Acq: 18 Apr 2025 04:05

Tgt Ion: 43 Resp: 477735

Ion	Ratio	Lower	Upper
43	100		
58	27.2	22.4	33.6



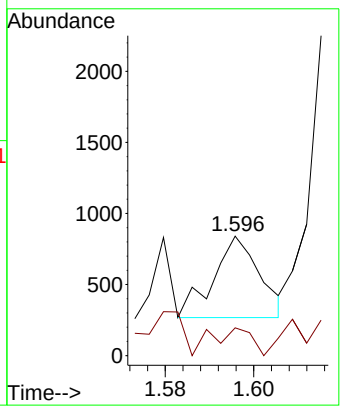


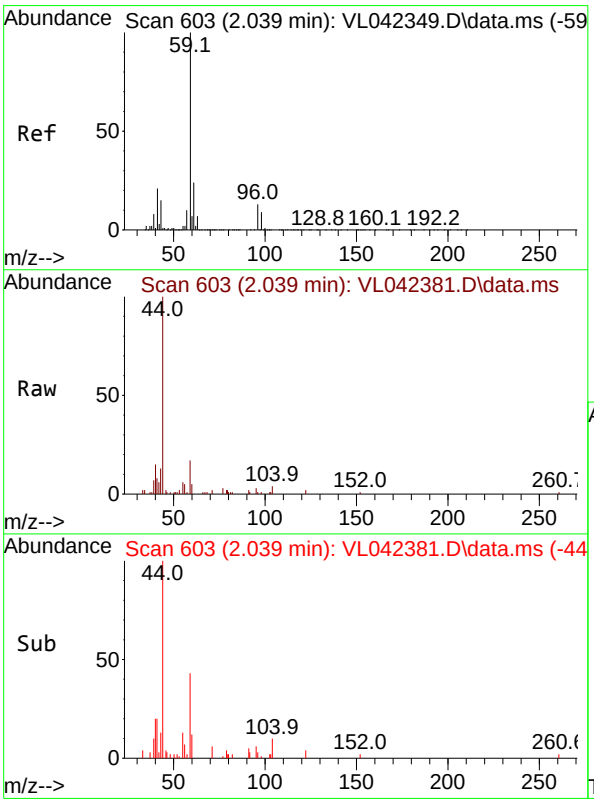
#16
1,3-Butadiene
Concen: 0.061 ppbv
RT: 1.596 min Scan# 4
Delta R.T. -0.013 min
Lab File: VL042381.D
Acq: 18 Apr 2025 04:05

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025DL

Tgt Ion: 39 Resp: 417

Ion	Ratio	Lower	Upper
39	100		
54	0.0	64.9	97.3#

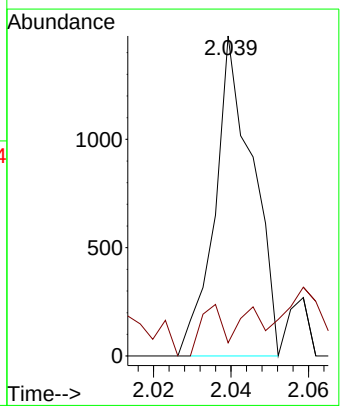


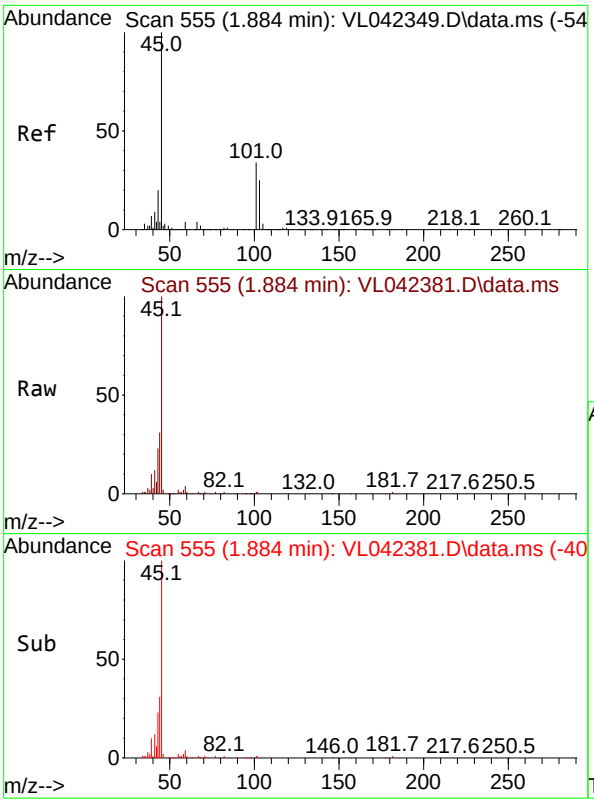


#17
tert-Butyl alcohol
Concen: 0.056 ppbv
RT: 2.039 min Scan# 603
Delta R.T. -0.000 min
Lab File: VL042381.D
Acq: 18 Apr 2025 04:05

Tgt Ion: 59 Resp: 1001

Ion	Ratio	Lower	Upper
59	100		
57	62.3	8.7	13.1#



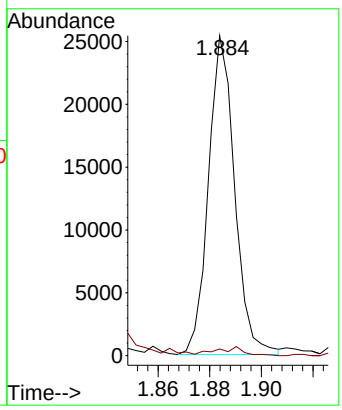


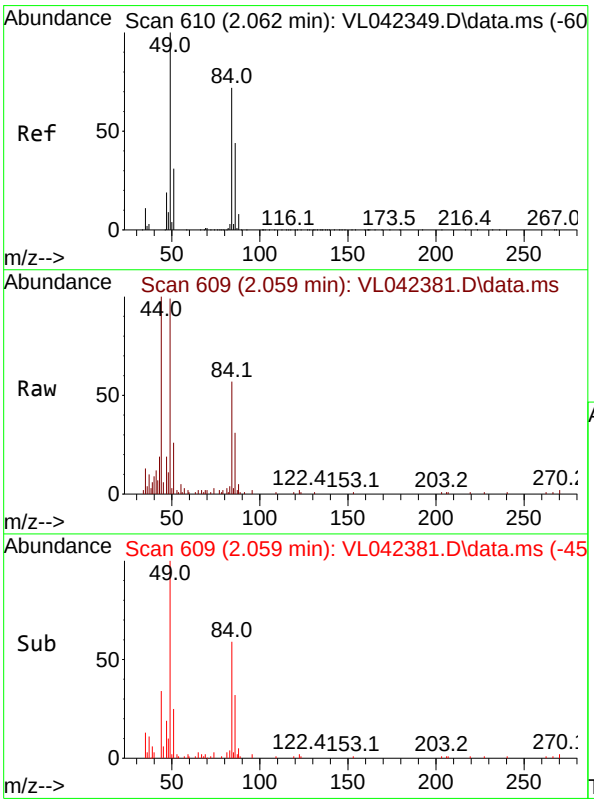
#19
Isopropyl Alcohol
Concen: 2.249 ppbv
RT: 1.884 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL042381.D
Acq: 18 Apr 2025 04:05

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025DL

Tgt Ion: 45 Resp: 17914

Ion	Ratio	Lower	Upper
45	100		
58	724.8	34.5	51.7#

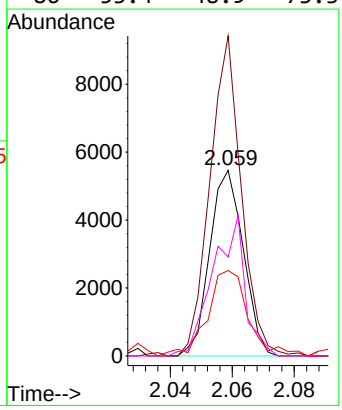


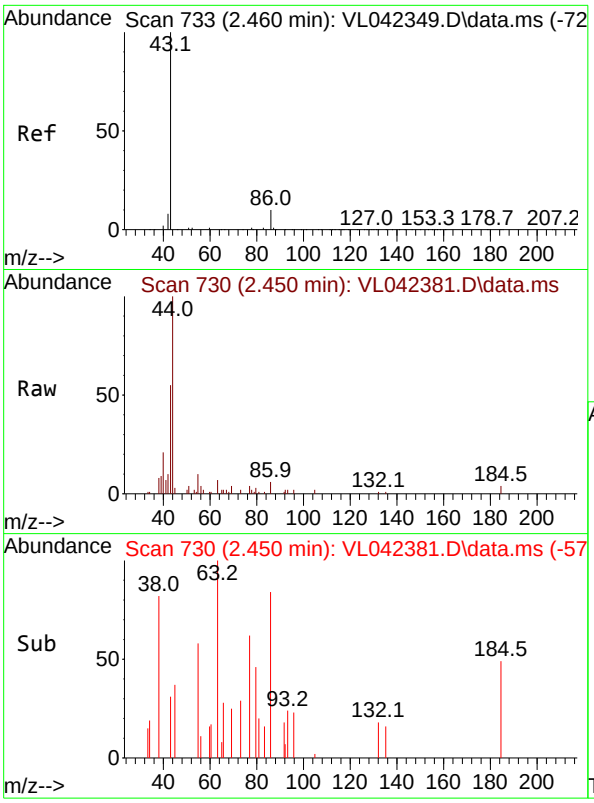


#20
Methylene Chloride
Concen: 0.735 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.003 min
Lab File: VL042381.D
Acq: 18 Apr 2025 04:05

Tgt Ion: 84 Resp: 4126

Ion	Ratio	Lower	Upper
84	100		
49	172.4	111.6	167.4#
51	42.3	35.1	52.7
86	53.4	48.9	73.3



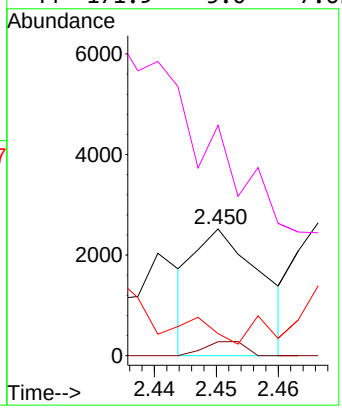


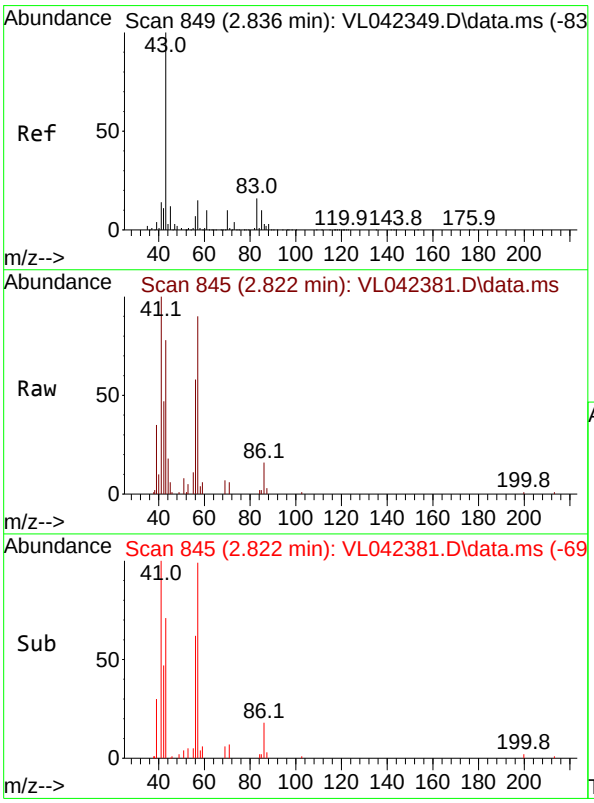
#23
Vinyl Acetate
Concen: 0.325 ppbv
RT: 2.450 min Scan# 7
Delta R.T. -0.010 min
Lab File: VL042381.D
Acq: 18 Apr 2025 04:05

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025DL

Tgt Ion: 43 Resp: 1889

Ion	Ratio	Lower	Upper
43	100		
86	24.4	6.5	9.7#
42	8.3	7.8	11.8
44	171.9	5.0	7.6#

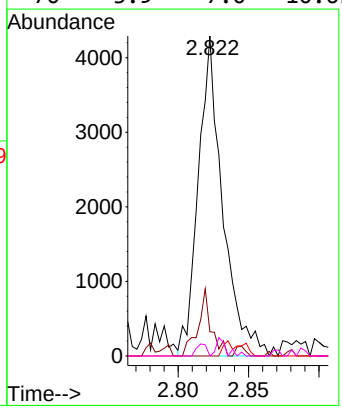


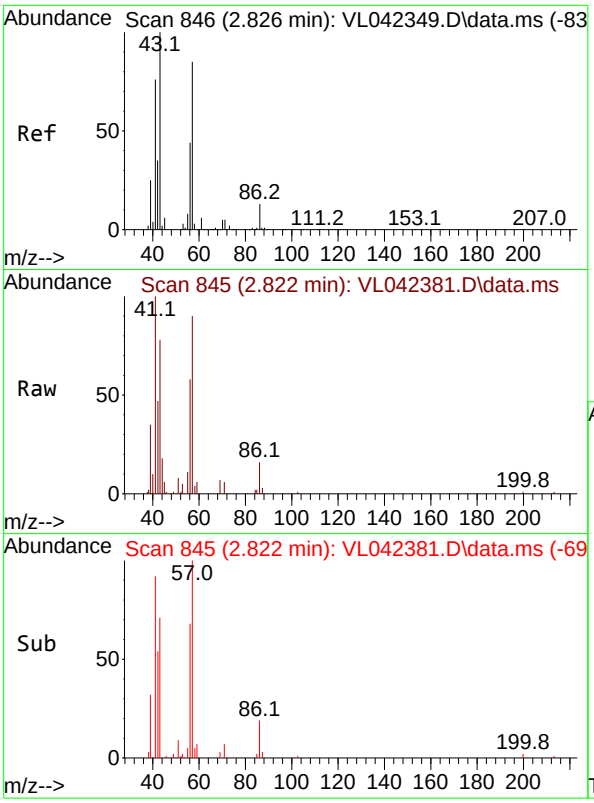


#25
Ethyl Acetate
Concen: 0.147 ppbv
RT: 2.822 min Scan# 845
Delta R.T. -0.013 min
Lab File: VL042381.D
Acq: 18 Apr 2025 04:05

Tgt Ion: 43 Resp: 5205

Ion	Ratio	Lower	Upper
43	100		
45	12.6	8.3	12.5#
61	3.4	7.3	10.9#
70	3.9	7.0	10.6#



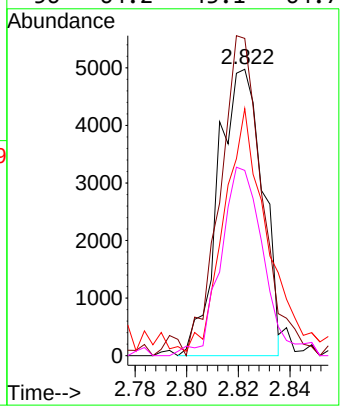


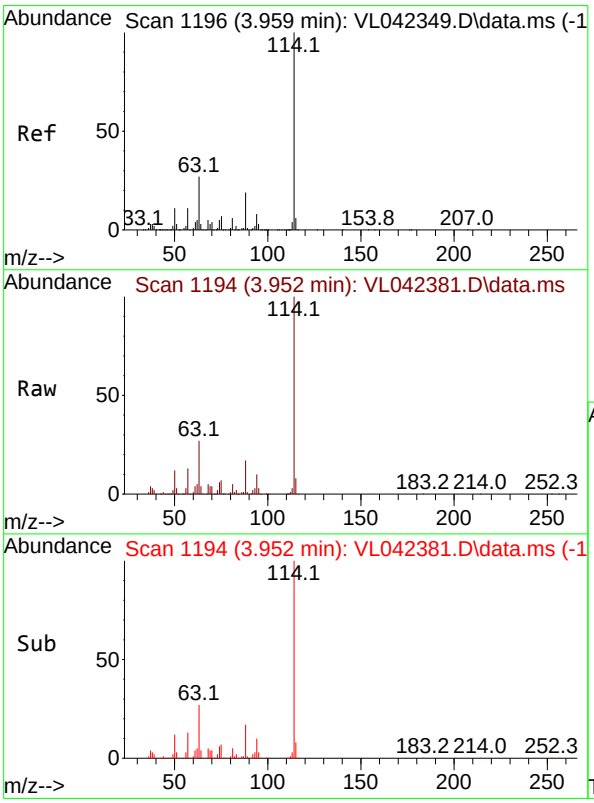
#26
Hexane
Concen: 0.416 ppbv
RT: 2.822 min Scan# 84
Delta R.T. -0.003 min
Lab File: VL042381.D
Acq: 18 Apr 2025 04:05

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025DL

Tgt Ion: 57 Resp: 5952

Ion	Ratio	Lower	Upper
57	100		
41	102.6	77.9	116.9
43	84.8	208.4	312.6#
56	64.2	43.1	64.7

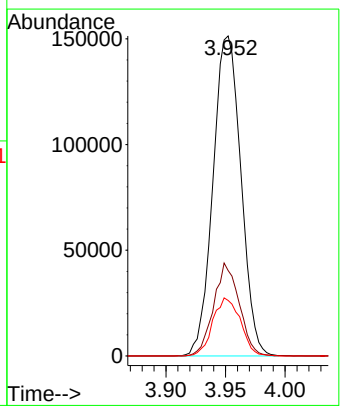


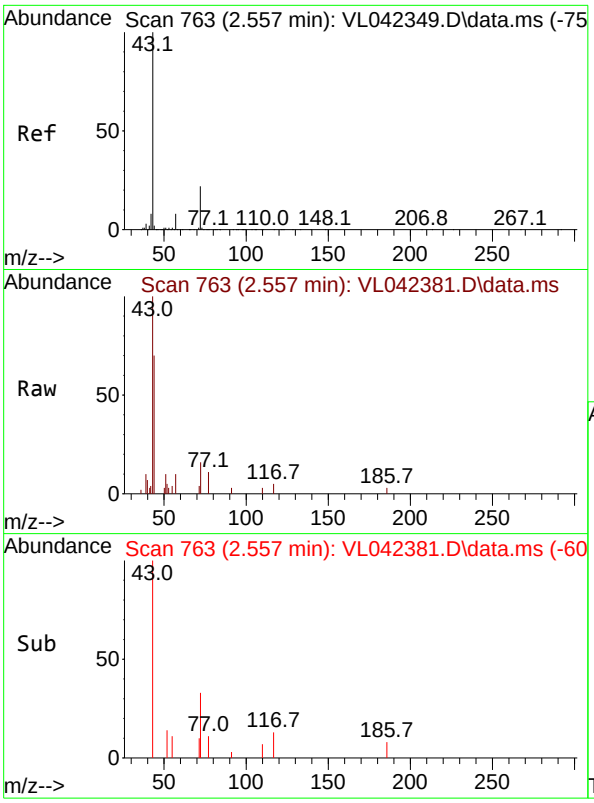


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.952 min Scan# 1194
Delta R.T. -0.007 min
Lab File: VL042381.D
Acq: 18 Apr 2025 04:05

Tgt Ion:114 Resp: 246915

Ion	Ratio	Lower	Upper
114	100		
63	26.6	21.8	32.6
88	17.9	15.5	23.3



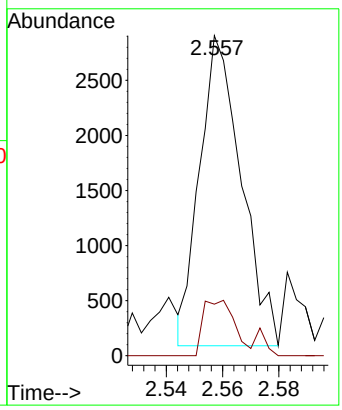


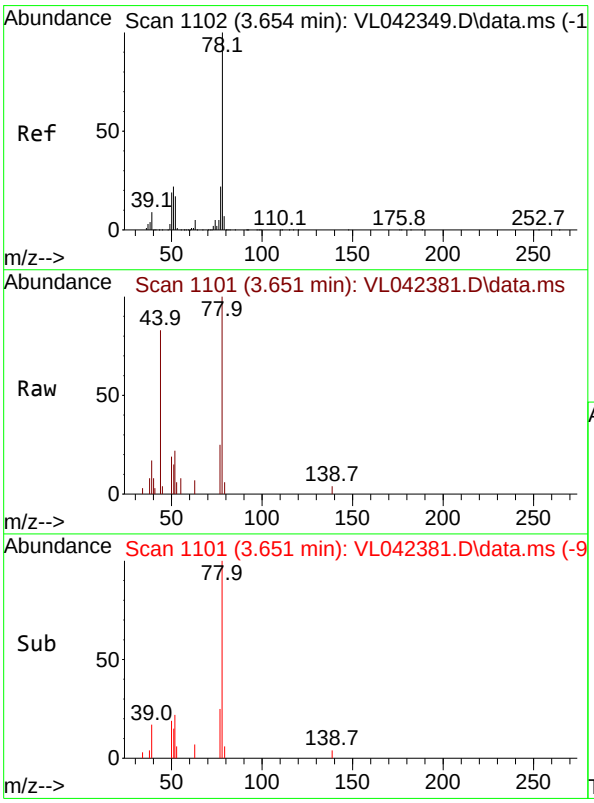
#34
2-Butanone
Concen: 0.148 ppbv
RT: 2.557 min Scan# 7
Delta R.T. -0.000 min
Lab File: VL042381.D
Acq: 18 Apr 2025 04:05

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025DL

Tgt Ion: 43 Resp: 2882

Ion	Ratio	Lower	Upper
43	100		
72	15.7	18.2	27.2#

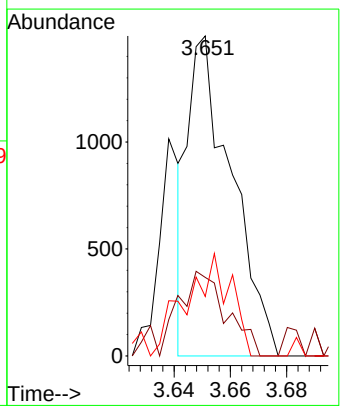


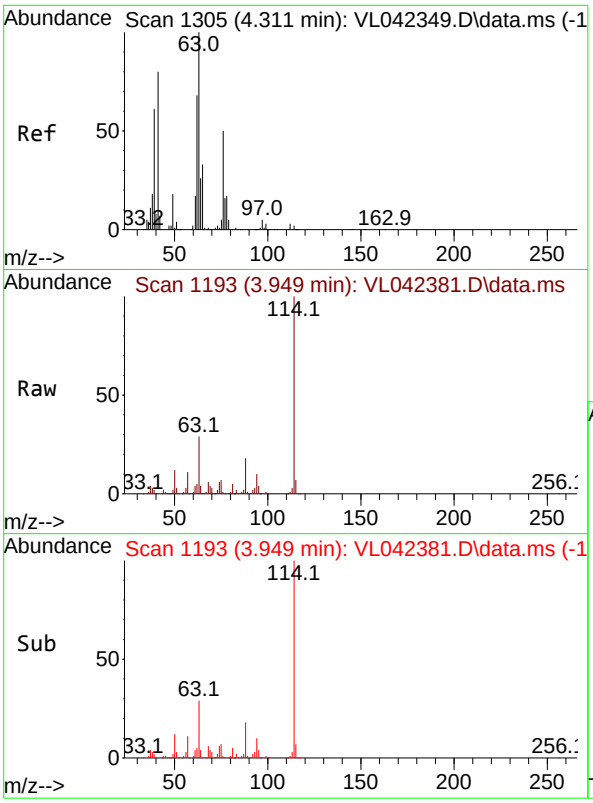


#36
Benzene
Concen: 0.060 ppbv
RT: 3.651 min Scan# 1101
Delta R.T. -0.003 min
Lab File: VL042381.D
Acq: 18 Apr 2025 04:05

Tgt Ion: 78 Resp: 1608

Ion	Ratio	Lower	Upper
78	100		
77	24.5	17.4	26.0
50	18.6	15.5	23.3



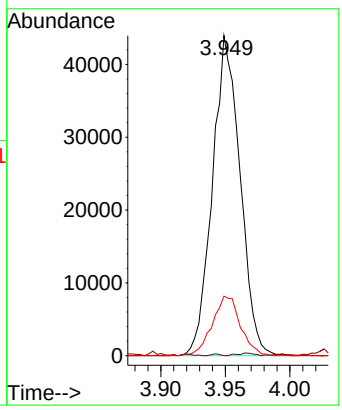


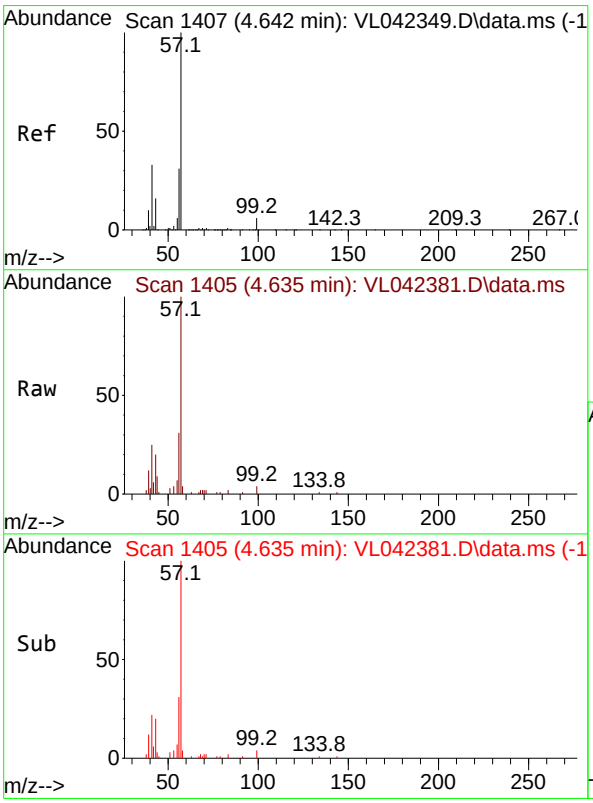
#39
1,2-Dichloropropane
Concen: 6.602 ppbv
RT: 3.949 min Scan# 11
Delta R.T. -0.363 min
Lab File: VL042381.D
Acq: 18 Apr 2025 04:05

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025DL

Tgt Ion: 63 Resp: 65524

Ion	Ratio	Lower	Upper
63	100		
41	0.0	64.2	96.2#
62	18.6	54.3	81.5#

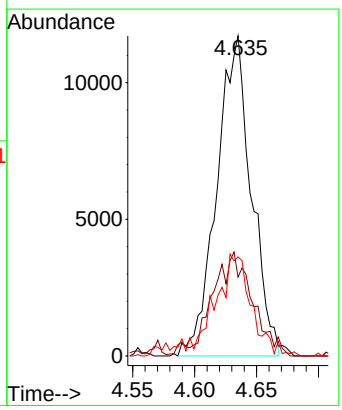


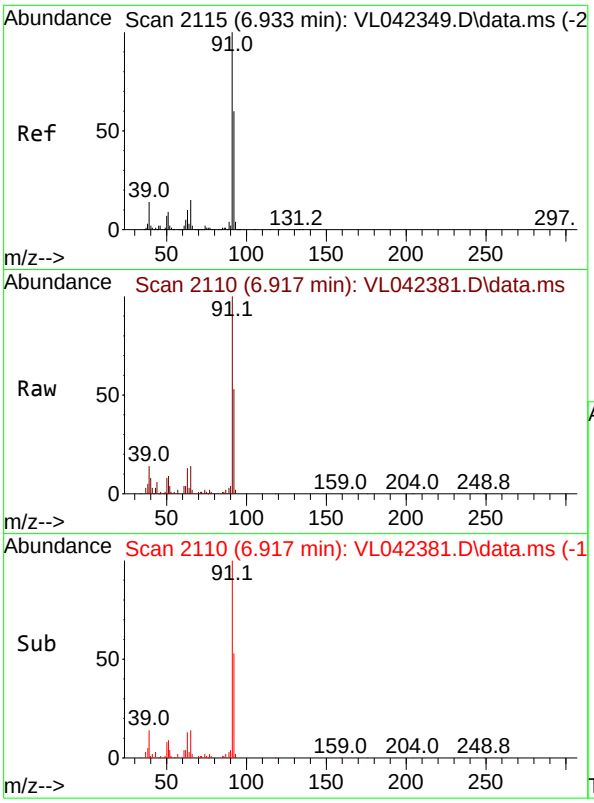


#44
2,2,4-Trimethylpentane
Concen: 0.495 ppbv
RT: 4.635 min Scan# 1405
Delta R.T. -0.007 min
Lab File: VL042381.D
Acq: 18 Apr 2025 04:05

Tgt Ion: 57 Resp: 22777

Ion	Ratio	Lower	Upper
57	100		
41	38.3	27.2	40.8
56	35.7	25.7	38.5



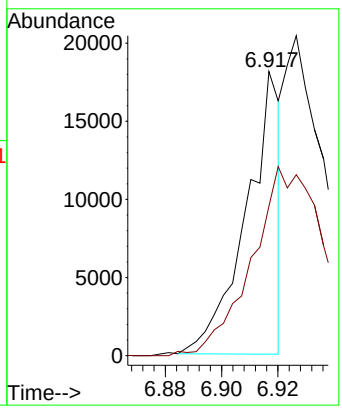


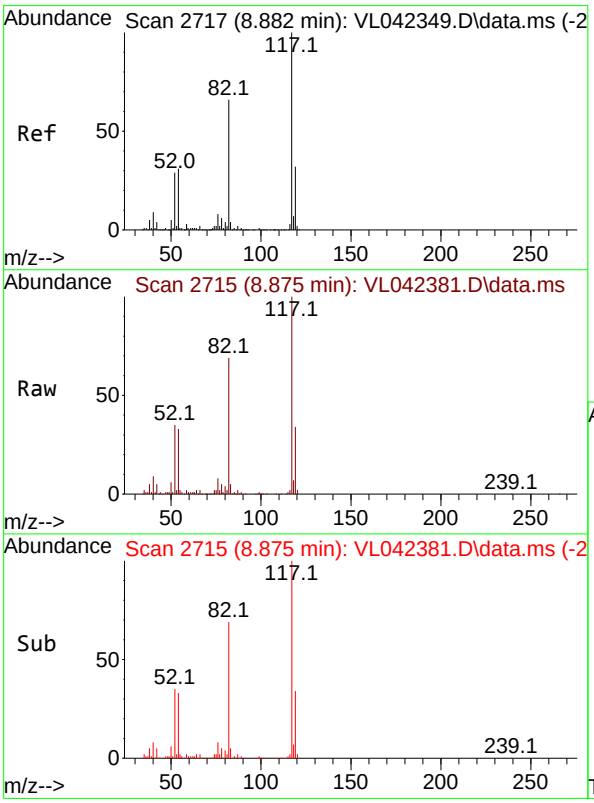
#53
Toluene
Concen: 0.473 ppbv
RT: 6.917 min Scan# 21
Delta R.T. -0.016 min
Lab File: VL042381.D
Acq: 18 Apr 2025 04:05

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025DL

Tgt Ion: 91 Resp: 15104

Ion	Ratio	Lower	Upper
91	100		
92	147.7	48.2	72.4#

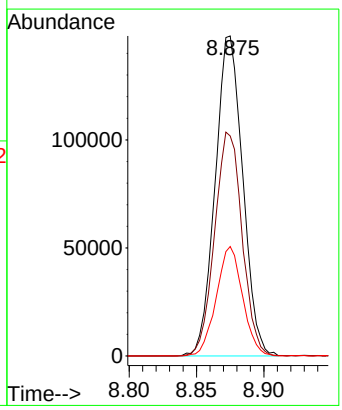


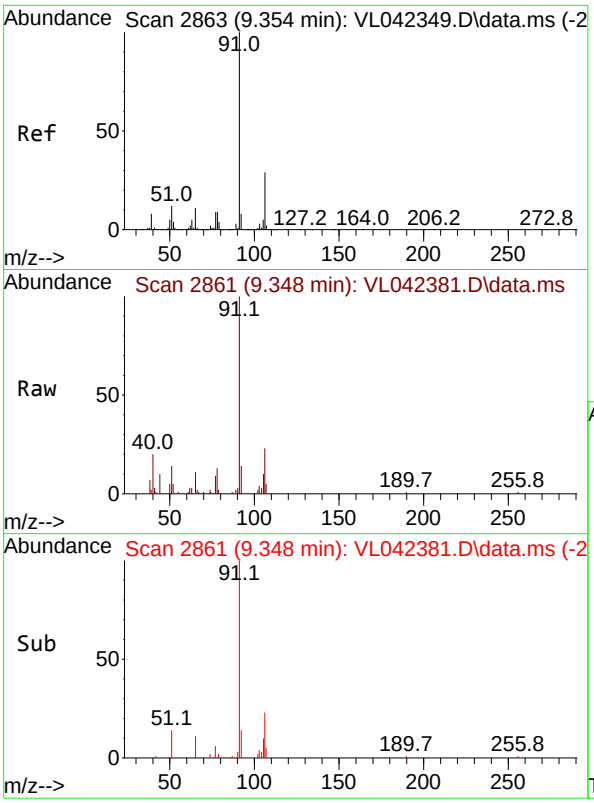


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 2715
Delta R.T. -0.007 min
Lab File: VL042381.D
Acq: 18 Apr 2025 04:05

Tgt Ion:117 Resp: 211054

Ion	Ratio	Lower	Upper
117	100		
82	69.8	57.8	86.6
119	32.7	25.2	37.8



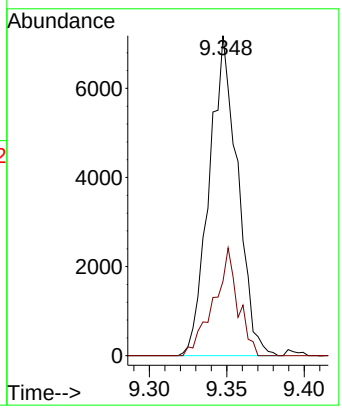


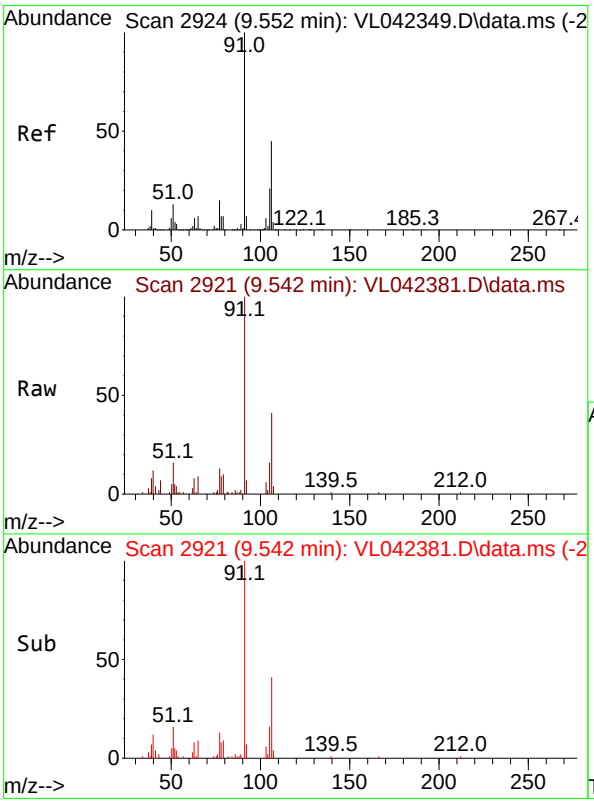
#58
Ethyl Benzene
Concen: 0.219 ppbv
RT: 9.348 min Scan# 2
Delta R.T. -0.007 min
Lab File: VL042381.D
Acq: 18 Apr 2025 04:05

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025DL

Tgt Ion: 91 Resp: 9155

Ion	Ratio	Lower	Upper
91	100		
106	23.3	23.0	34.4

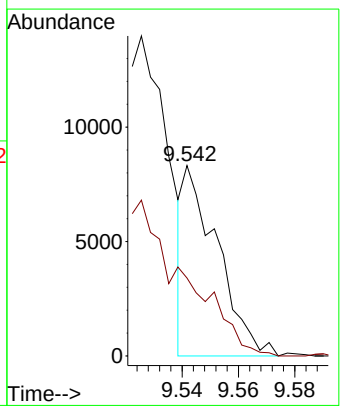


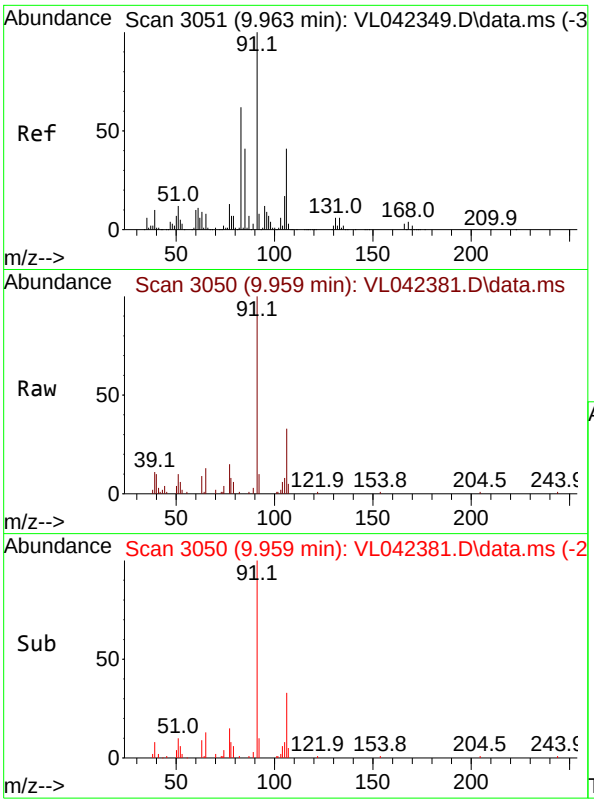


#59
m/p-Xylene
Concen: 0.208 ppbv
RT: 9.542 min Scan# 2921
Delta R.T. -0.010 min
Lab File: VL042381.D
Acq: 18 Apr 2025 04:05

Tgt Ion: 91 Resp: 7000

Ion	Ratio	Lower	Upper
91	100		
106	0.0	35.4	53.2#



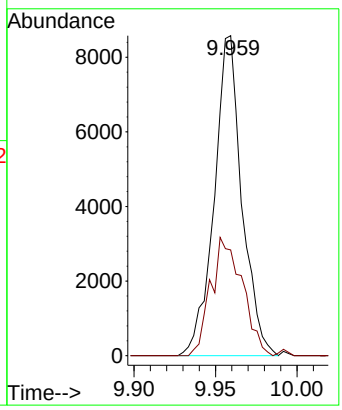


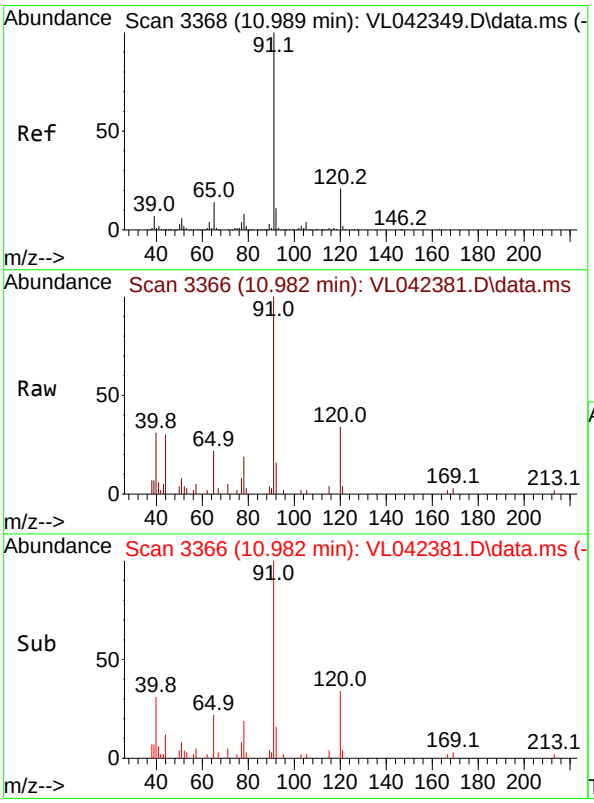
#60
o-Xylene
Concen: 0.299 ppbv
RT: 9.959 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042381.D
Acq: 18 Apr 2025 04:05

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025DL

Tgt Ion: 91 Resp: 10141

Ion	Ratio	Lower	Upper
91	100		
106	42.6	21.1	63.4

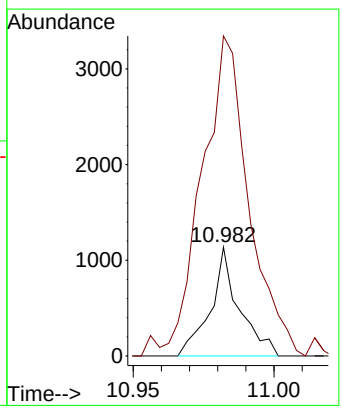


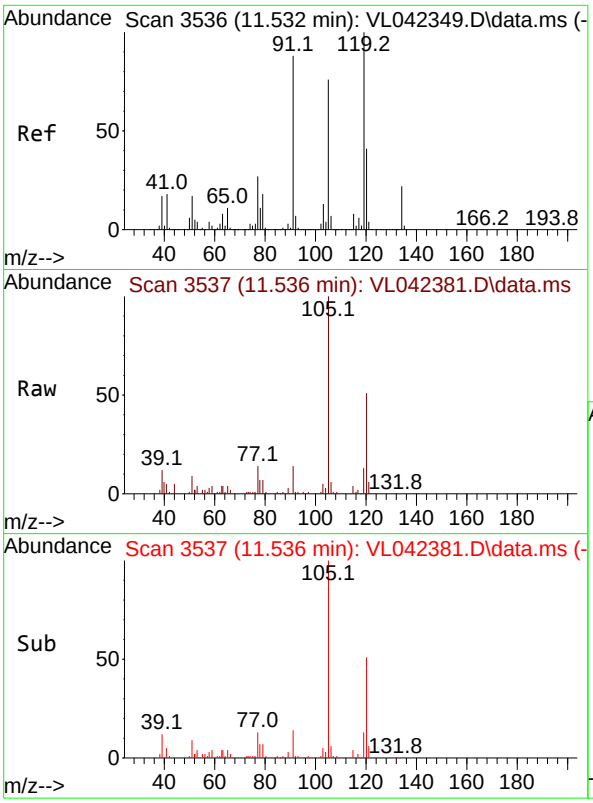


#64
n-propylbenzene
Concen: 0.064 ppbv
RT: 10.982 min Scan# 3366
Delta R.T. -0.007 min
Lab File: VL042381.D
Acq: 18 Apr 2025 04:05

Tgt Ion:120 Resp: 805

Ion	Ratio	Lower	Upper
120	100		
91	492.0	392.4	588.6



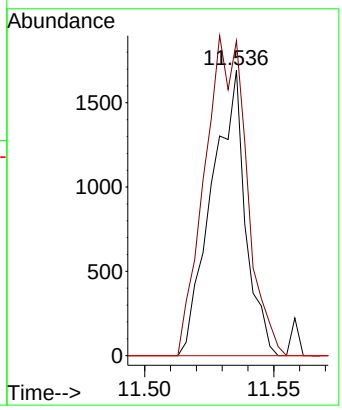


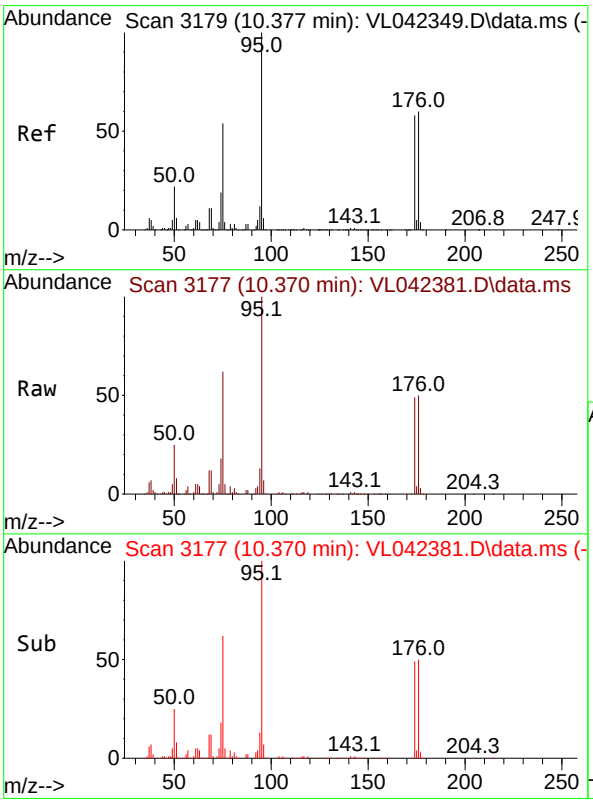
#65
tert-Butylbenzene
Concen: 0.034 ppbv
RT: 11.536 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042381.D
Acq: 18 Apr 2025 04:05

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025DL

Tgt Ion:119 Resp: 1537

Ion	Ratio	Lower	Upper
119	100		
91	139.7	74.6	111.8#
134	0.0	18.8	28.2#

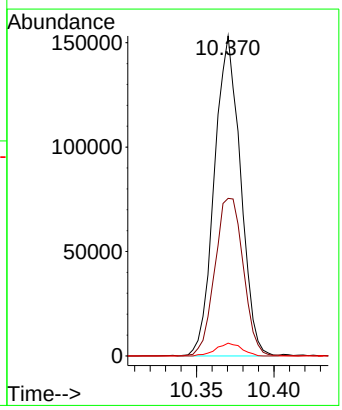


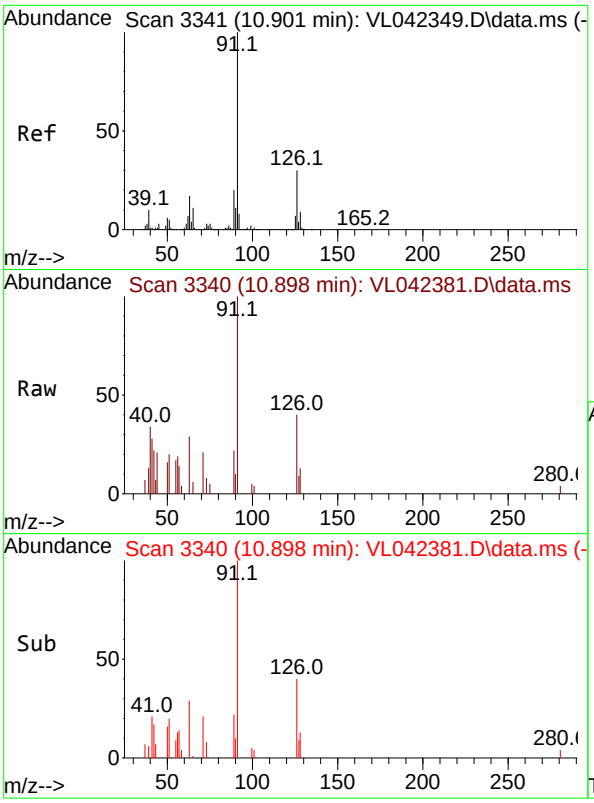


#68
1-Bromo-4-Fluorobenzene
Concen: 10.344 ppbv
RT: 10.370 min Scan# 3177
Delta R.T. -0.007 min
Lab File: VL042381.D
Acq: 18 Apr 2025 04:05

Tgt Ion: 95 Resp: 179405

Ion	Ratio	Lower	Upper
95	100		
174	53.8	48.5	72.7
175	4.0	3.7	5.5



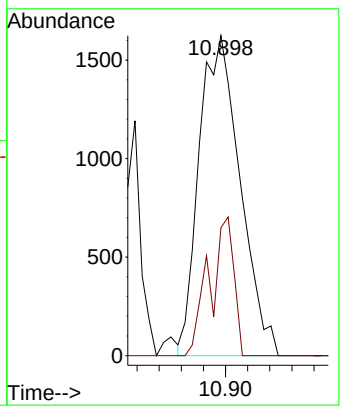


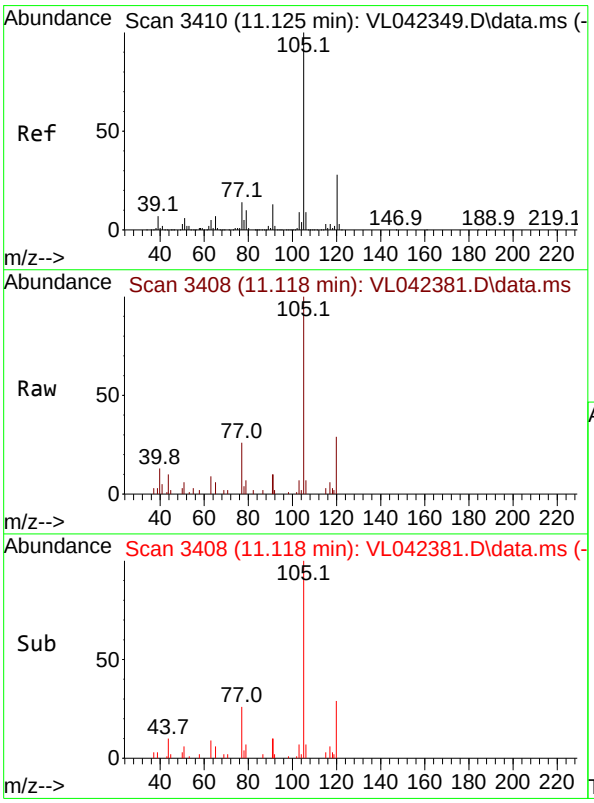
#71
2-Chlorotoluene
Concen: 0.054 ppbv
RT: 10.898 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042381.D
Acq: 18 Apr 2025 04:05

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025DL

Tgt Ion: 91 Resp: 2092

Ion	Ratio	Lower	Upper
91	100		
126	25.6	11.4	45.4

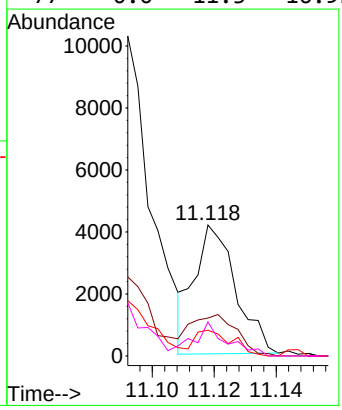


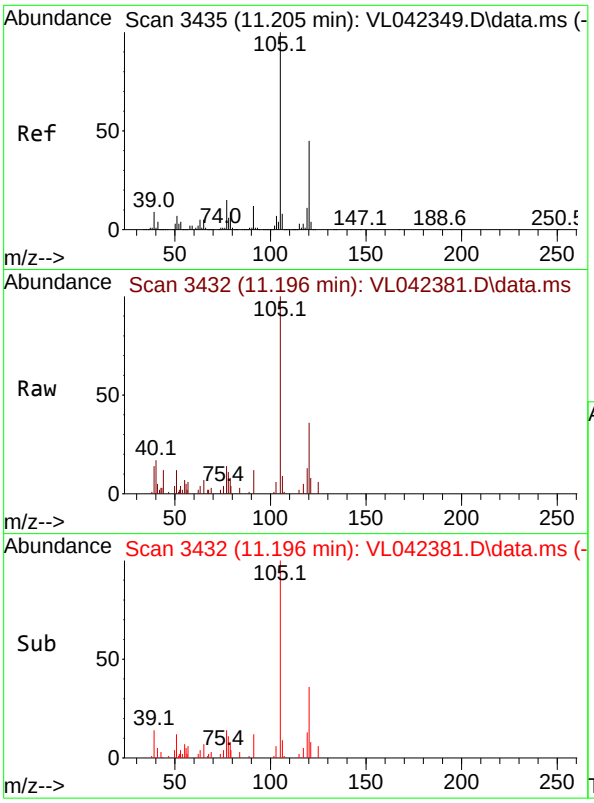


#72
4-Ethyltoluene
Concen: 0.093 ppbv
RT: 11.118 min Scan# 3408
Delta R.T. -0.007 min
Lab File: VL042381.D
Acq: 18 Apr 2025 04:05

Tgt Ion:105 Resp: 3845

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#



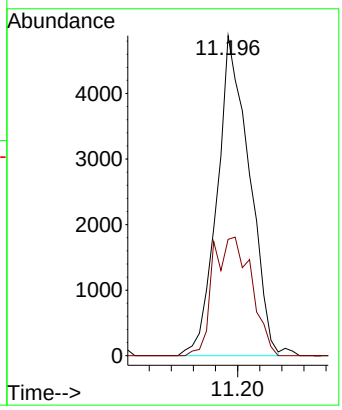


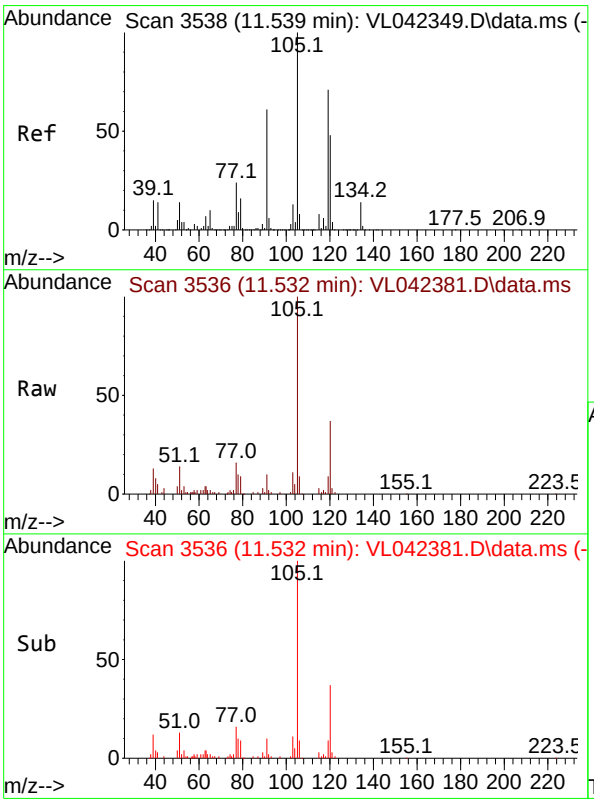
#73
1,3,5-Trimethylbenzene
Concen: 0.135 ppbv
RT: 11.196 min Scan# 34
Delta R.T. -0.010 min
Lab File: VL042381.D
Acq: 18 Apr 2025 04:05

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025DL

Tgt Ion:105 Resp: 4940

Ion	Ratio	Lower	Upper
105	100		
120	36.4	35.6	53.4

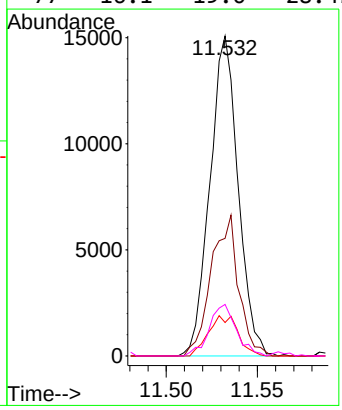




#74
1,2,4-Trimethylbenzene
Concen: 0.379 ppbv
RT: 11.532 min Scan# 3536
Delta R.T. -0.007 min
Lab File: VL042381.D
Acq: 18 Apr 2025 04:05

Tgt Ion:105 Resp: 16215

Ion	Ratio	Lower	Upper
105	100		
120	36.7	38.1	57.1#
91	10.5	48.8	73.2#
77	16.1	19.0	28.4#



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041825\
Data File : VL042383.D
Acq On : 18 Apr 2025 10:23
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Quant Time: Apr 18 22:55:20 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	2.784	49	135964	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.949	114	427541	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	379215	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.370	95	309235	9.924	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 99.200%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.496	85	227548	9.472	ppbv	95
3) Chlorodifluoromethane	1.473	51	195422	8.543	ppbv	96
4) Chloromethane	1.531	50	84884	8.929	ppbv	96
5) Vinyl Chloride	1.576	62	82816	8.003	ppbv	97
6) Bromomethane	1.664	94	39633	8.916	ppbv	90
7) Chloroethane	1.703	64	33067	8.836	ppbv	96
8) Dichlorotetrafluoroethane	1.551	85	193310	9.373	ppbv	98
9) Propene	1.483	41	79602	7.641	ppbv	98
10) Heptane	4.968	43	211969	7.242	ppbv	97
11) Trichlorofluoromethane	1.874	101	220733	9.663	ppbv	94
12) 1,1,2-Trichlorotrifluo...	2.136	101	171052	9.158	ppbv	96
13) Ethanol	1.719	45	4291	2.592	ppbv	96
14) Bromoethene	1.777	108	66481	9.442	ppbv	99
15) Acetone	1.832	43	172096	7.732	ppbv	100
16) 1,3-Butadiene	1.606	39	84576	7.945	ppbv	96
17) tert-Butyl alcohol	2.036	59	230418	8.353	ppbv	100
18) 1,1-Dichloroethene	2.030	96	79587	9.121	ppbv	96
19) Isopropyl Alcohol	1.884	45	101483	8.208	ppbv	93
20) Methylene Chloride	2.059	84	65868	7.556	ppbv	96
21) Allyl Chloride	2.091	41	126980	8.263	ppbv	98
22) trans-1,2-Dichloroethene	2.337	96	88798	8.938	ppbv	98
23) Vinyl Acetate	2.457	43	64135	7.119	ppbv #	98
24) 1,1-Dichloroethane	2.405	63	173462	9.191	ppbv	99
25) Ethyl Acetate	2.832	43	441499	8.045	ppbv	100
26) Hexane	2.819	57	177427	7.989	ppbv	95
27) Carbon Disulfide	2.146	76	209681	8.818	ppbv	98
28) Methyl tert-Butyl Ether	2.437	73	122464	8.416	ppbv	92
29) Chloroform	2.842	83	296747	9.453	ppbv	96
30) Cyclohexane	3.849	84	155716	8.673	ppbv	94
31) cis-1,2-Dichloroethene	2.716	61	190037	9.000	ppbv	98
32) 1,1,1-Trichloroethane	3.363	97	321462	9.097	ppbv	99
34) 2-Butanone	2.554	43	249113	7.367	ppbv	98
35) Carbon Tetrachloride	3.755	117	336452	8.695	ppbv	97
36) Benzene	3.648	78	361650	7.842	ppbv	97
37) 1,2-Dichloroethane	3.214	62	239079	8.638	ppbv	98
38) Trichloroethene	4.541	130	160521	7.964	ppbv	96
39) 1,2-Dichloropropane	4.305	63	128161	7.458	ppbv	95
40) 1,4-Dioxane	4.574	88	65746	6.962	ppbv #	92
41) Tetrahydrofuran	3.049	42	137694	6.984	ppbv	97
42) Bromodichloromethane	4.483	83	332490	8.632	ppbv	99
43) Methyl Methacrylate	4.871	69	147517	7.098	ppbv	99
44) 2,2,4-Trimethylpentane	4.629	57	587274	7.374	ppbv	98
45) t-1,3-Dichloropropene	6.402	75	164658	7.756	ppbv	95

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041825\
Data File : VL042383.D
Acq On : 18 Apr 2025 10:23
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Quant Time: Apr 18 22:55:20 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

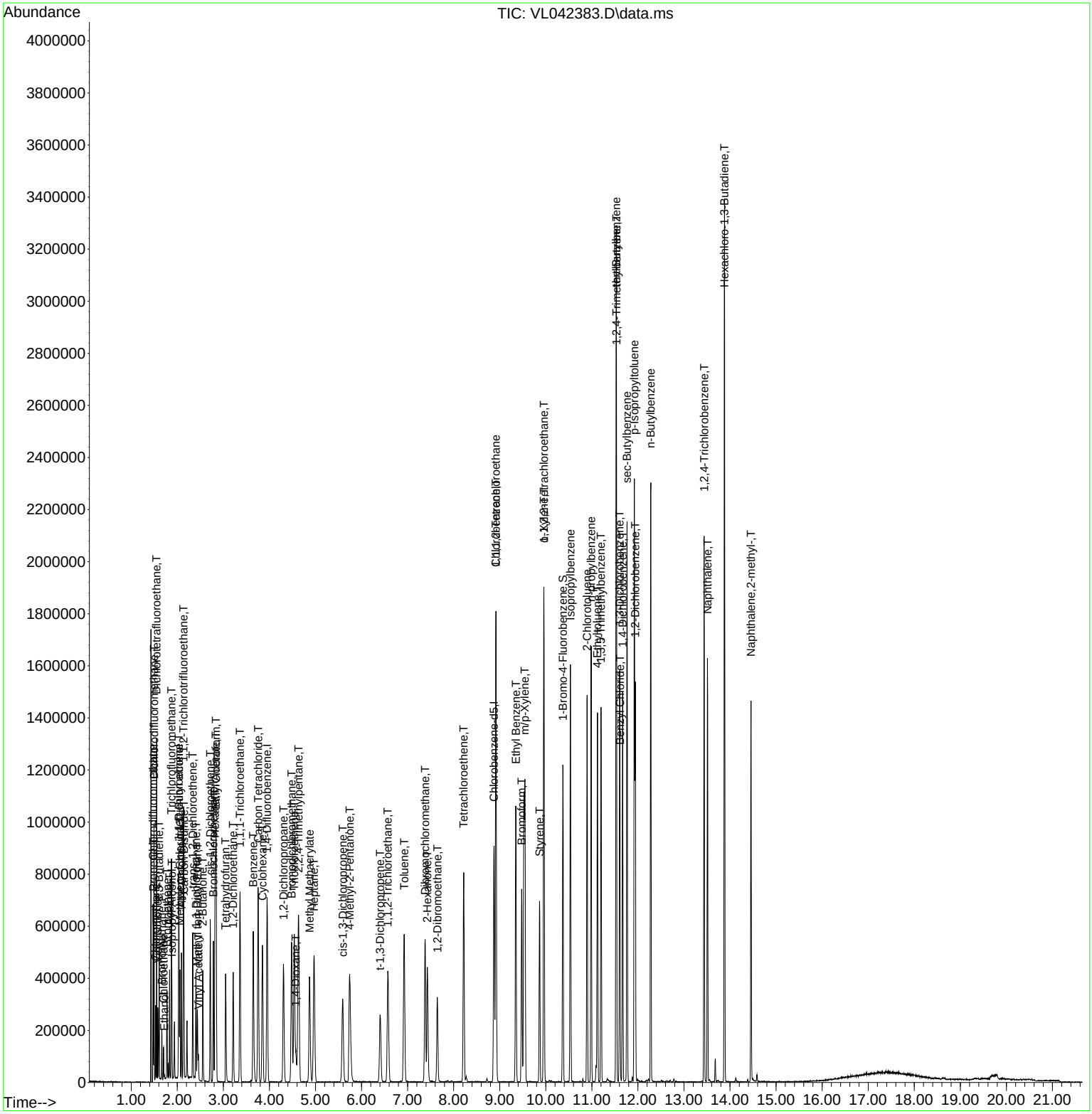
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) cis-1,3-Dichloropropene	5.593	75	200823	7.729	ppbv		92
47) 1,1,2-Trichloroethane	6.571	97	143547	8.199	ppbv		94
48) Dibromochloromethane	7.380	129	276258	8.931	ppbv		99
49) Bromoform	9.477	173	245731	9.086	ppbv		98
50) 4-Methyl-2-Pentanone	5.742	43	365292	6.501	ppbv		99
51) 2-Hexanone	7.428	43	296019	5.874	ppbv	#	98
52) Tetrachloroethene	8.218	164	138295	7.759	ppbv		96
53) Toluene	6.927	91	436388	7.886	ppbv		99
54) 1,2-Dibromoethane	7.645	107	209152	8.347	ppbv		90
56) 1,1,1,2-Tetrachloroethane	8.917	131	207437	9.038	ppbv		99
57) Chlorobenzene	8.917	112	339932	8.619	ppbv		95
58) Ethyl Benzene	9.351	91	620425	8.258	ppbv		99
59) m/p-Xylene	9.545	91	492303	8.134	ppbv	#	29
60) o-Xylene	9.959	91	505258	8.290	ppbv		100
61) Styrene	9.865	104	240108	8.253	ppbv		99
62) Isopropylbenzene	10.535	105	753628	8.422	ppbv		100
63) 1,1,2,2-Tetrachloroethane	9.959	83	297020	7.520	ppbv		98
64) n-propylbenzene	10.985	120	191951	8.534	ppbv		91
65) tert-Butylbenzene	11.529	119	688133	8.367	ppbv		93
66) Benzyl Chloride	11.610	91	60227	6.664	ppbv		96
67) sec-Butylbenzene	11.762	105	948966	8.295	ppbv		98
69) p-Isopropyltoluene	11.924	119	826443	8.315	ppbv		100
70) n-Butylbenzene	12.277	91	832220	8.039	ppbv		99
71) 2-Chlorotoluene	10.898	91	582951	8.306	ppbv		100
72) 4-Ethyltoluene	11.121	105	615202	8.256	ppbv		99
73) 1,3,5-Trimethylbenzene	11.199	105	540783	8.220	ppbv		98
74) 1,2,4-Trimethylbenzene	11.536	105	598825	7.794	ppbv		98
75) 1,3-Dichlorobenzene	11.604	146	345226	8.644	ppbv		99
76) 1,4-Dichlorobenzene	11.668	146	340293	8.477	ppbv		99
77) 1,2-Dichlorobenzene	11.943	146	339821	8.751	ppbv		99
78) Hexachloro-1,3-Butadiene	13.879	225	355324	9.061	ppbv		99
79) Naphthalene	13.510	128	724361	7.884	ppbv		99
80) Naphthalene,2-methyl-	14.455	142	396207	7.566	ppbv		98
81) 1,2,4-Trichlorobenzene	13.439	180	344709	8.737	ppbv		100

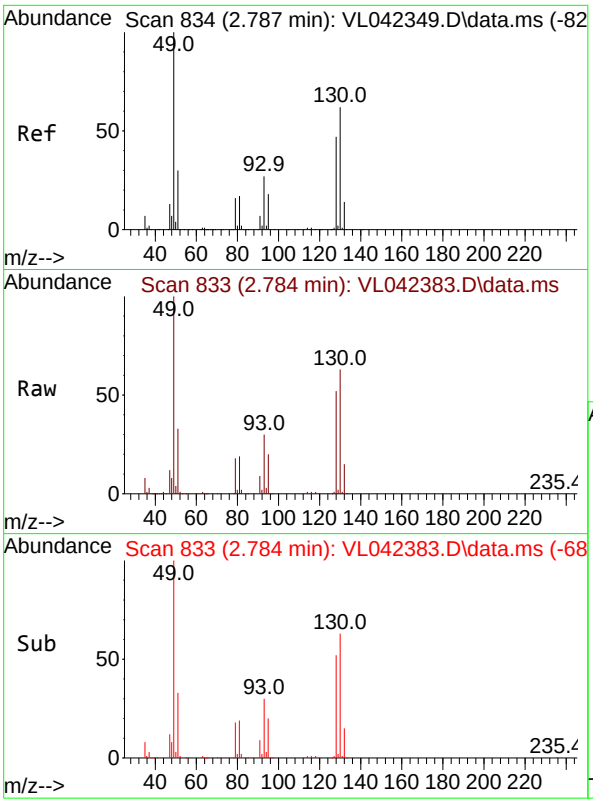
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041825\
Data File : VL042383.D
Acq On : 18 Apr 2025 10:23
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Quant Time: Apr 18 22:55:20 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



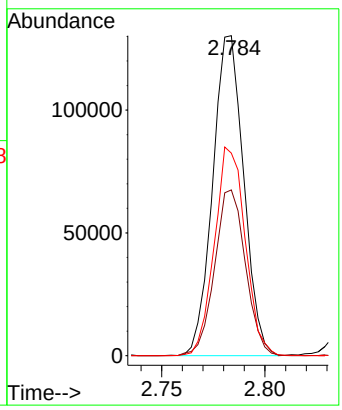


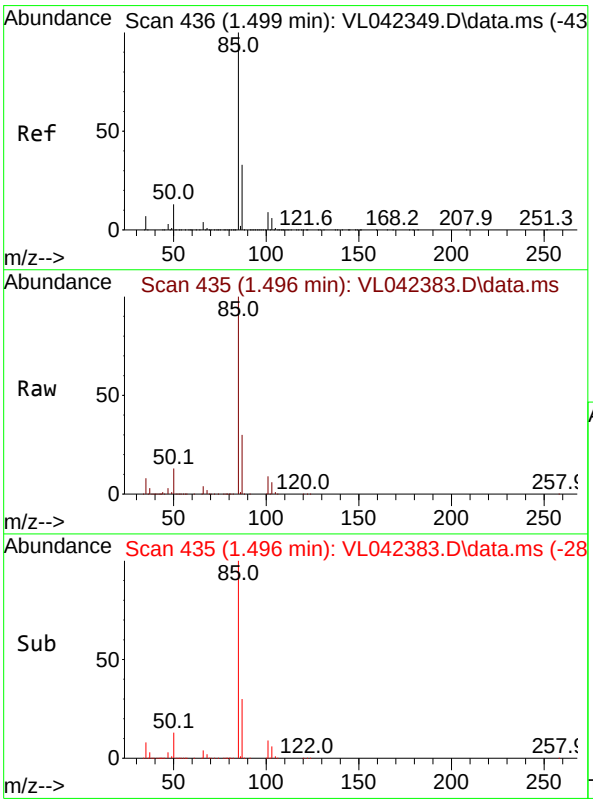
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 8
Delta R.T. -0.003 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 49 Resp: 135964

Ion	Ratio	Lower	Upper
49	100		
128	51.7	22.8	68.4
130	64.8	29.3	88.0

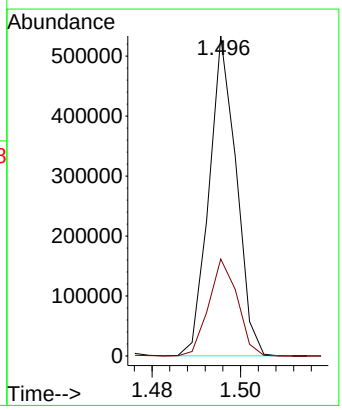


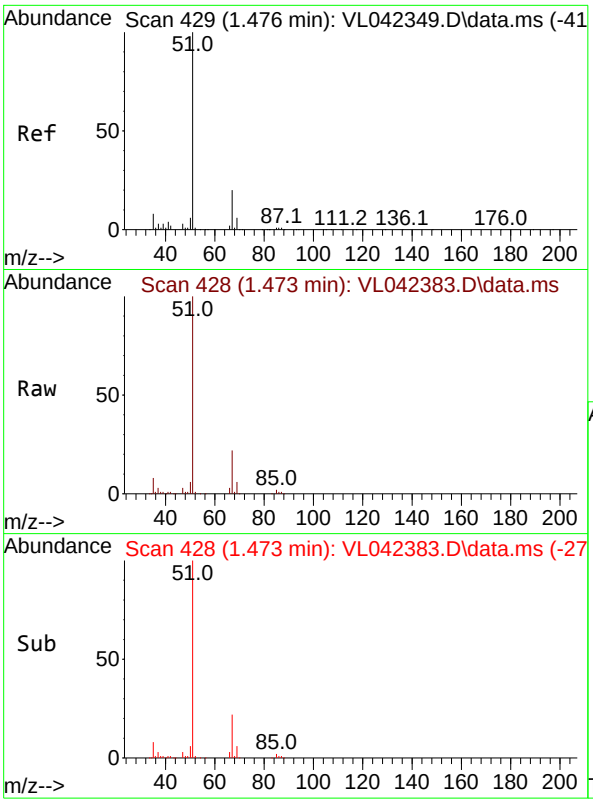


#2
Dichlorodifluoromethane
Concen: 9.472 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.003 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Tgt Ion: 85 Resp: 227548

Ion	Ratio	Lower	Upper
85	100		
87	30.3	26.6	39.8



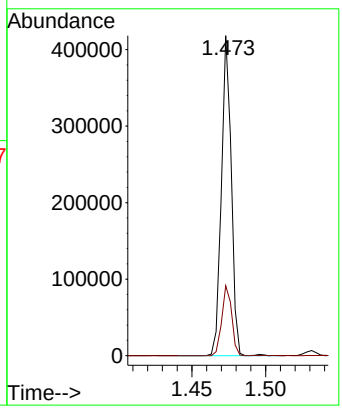


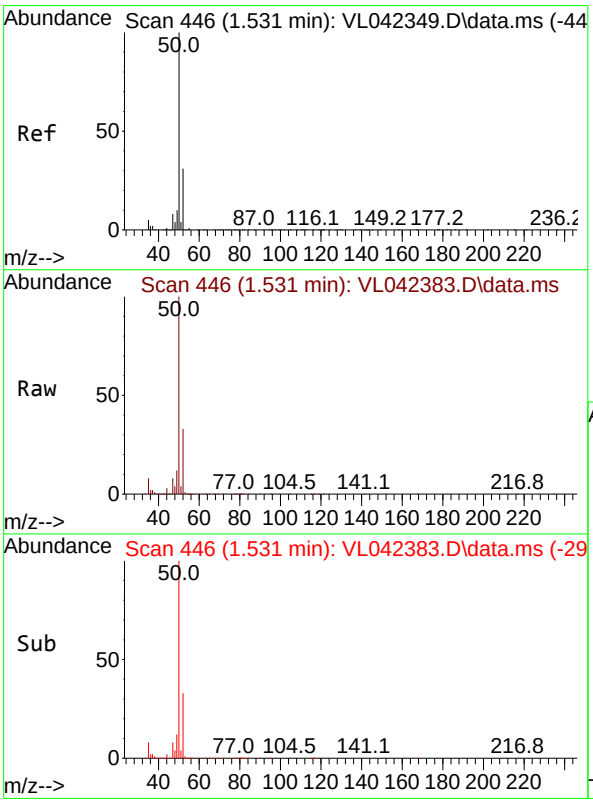
#3
Chlorodifluoromethane
Concen: 8.543 ppbv
RT: 1.473 min Scan# 4
Delta R.T. -0.003 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 51 Resp: 195422

Ion	Ratio	Lower	Upper
51	100		
67	22.1	16.2	24.4

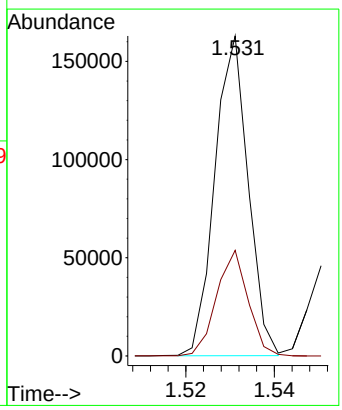


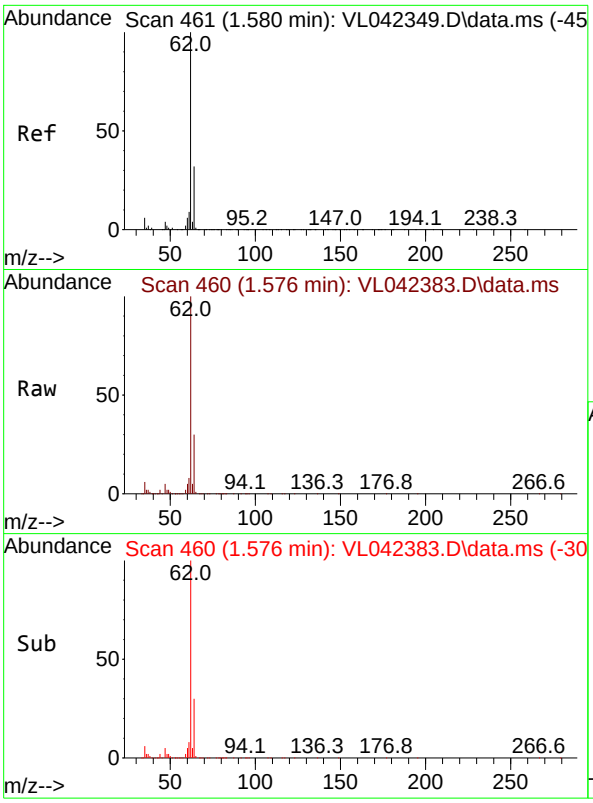


#4
Chloromethane
Concen: 8.929 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Tgt Ion: 50 Resp: 84884

Ion	Ratio	Lower	Upper
50	100		
52	33.0	24.7	37.1



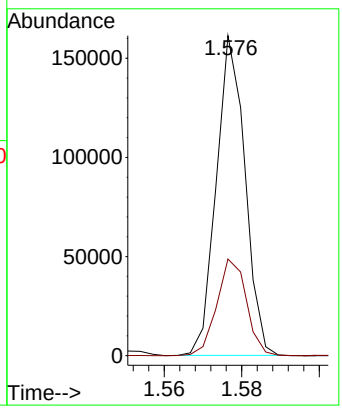


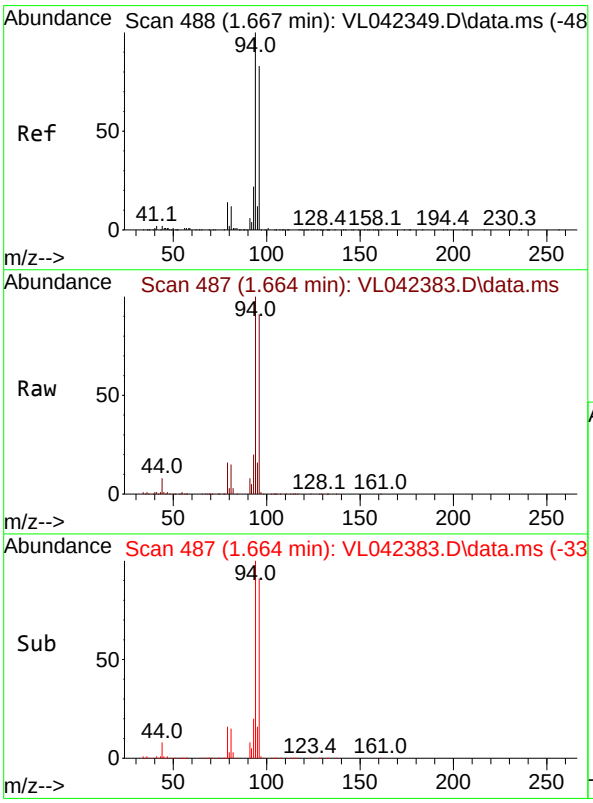
#5
Vinyl Chloride
Concen: 8.003 ppbv
RT: 1.576 min Scan# 4
Delta R.T. -0.003 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 62 Resp: 82816

Ion	Ratio	Lower	Upper
62	100		
64	30.2	25.4	38.0

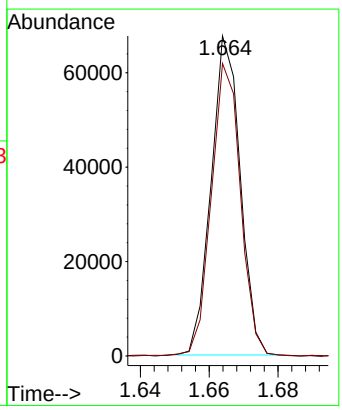


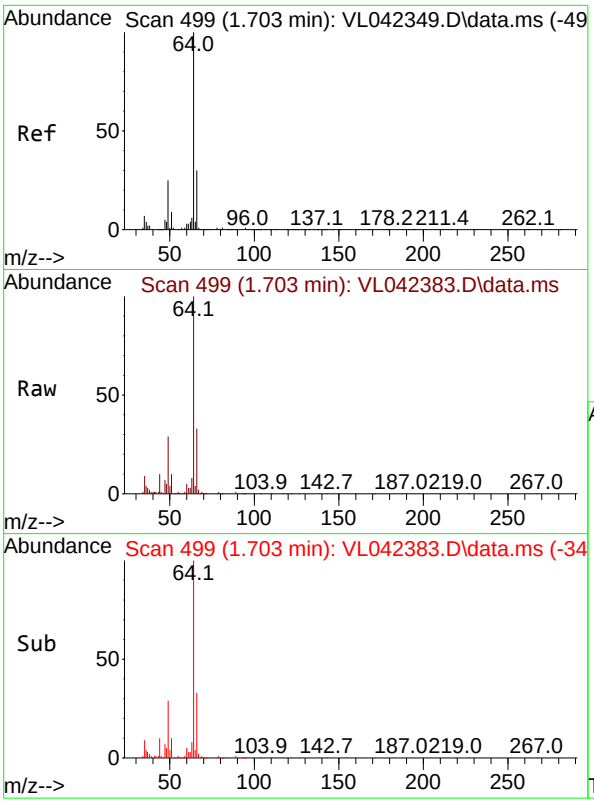


#6
Bromomethane
Concen: 8.916 ppbv
RT: 1.664 min Scan# 487
Delta R.T. -0.003 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Tgt Ion: 94 Resp: 39633

Ion	Ratio	Lower	Upper
94	100		
96	91.3	66.2	99.2



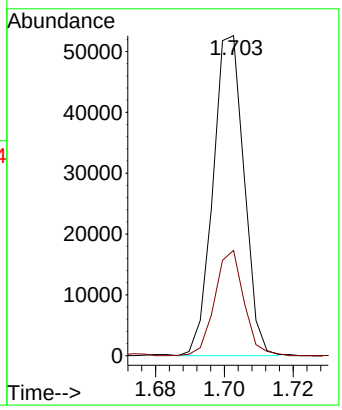


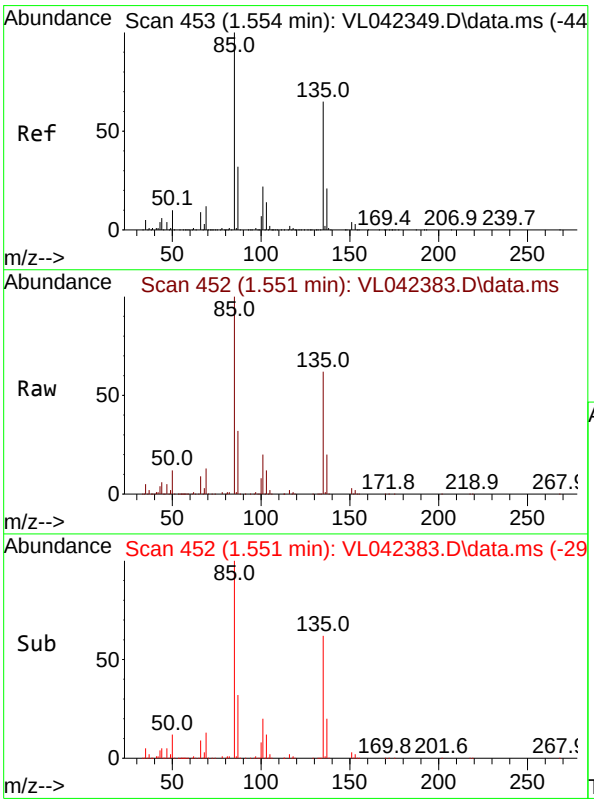
#7
Chloroethane
Concen: 8.836 ppbv
RT: 1.703 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 64 Resp: 33067

Ion	Ratio	Lower	Upper
64	100		
66	32.9	24.6	37.0

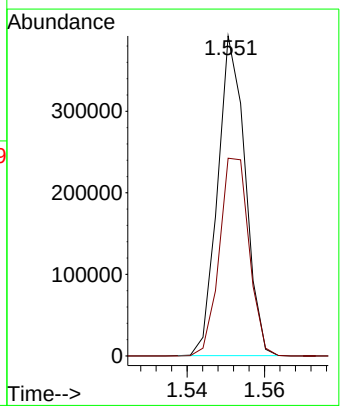


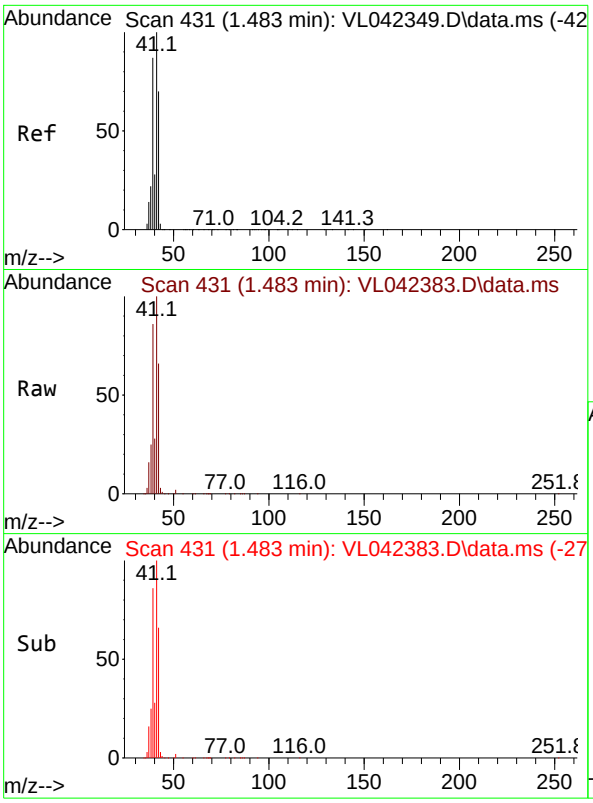


#8
Dichlorotetrafluoroethane
Concen: 9.373 ppbv
RT: 1.551 min Scan# 452
Delta R.T. -0.003 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Tgt Ion: 85 Resp: 193310

Ion	Ratio	Lower	Upper
85	100		
135	67.2	52.2	78.2



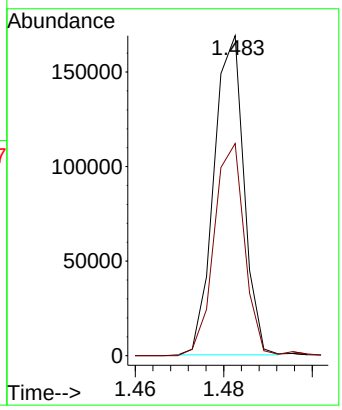


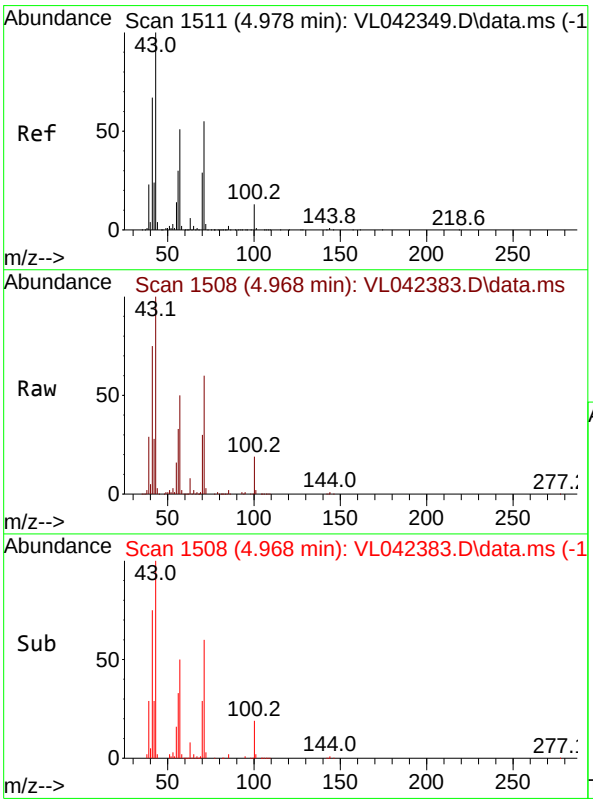
#9
Propene
Concen: 7.641 ppbv
RT: 1.483 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 41 Resp: 79602

Ion	Ratio	Lower	Upper
41	100		
42	68.6	56.2	84.4

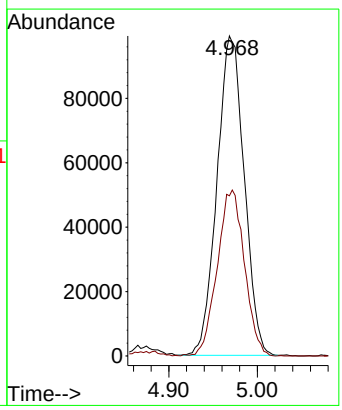


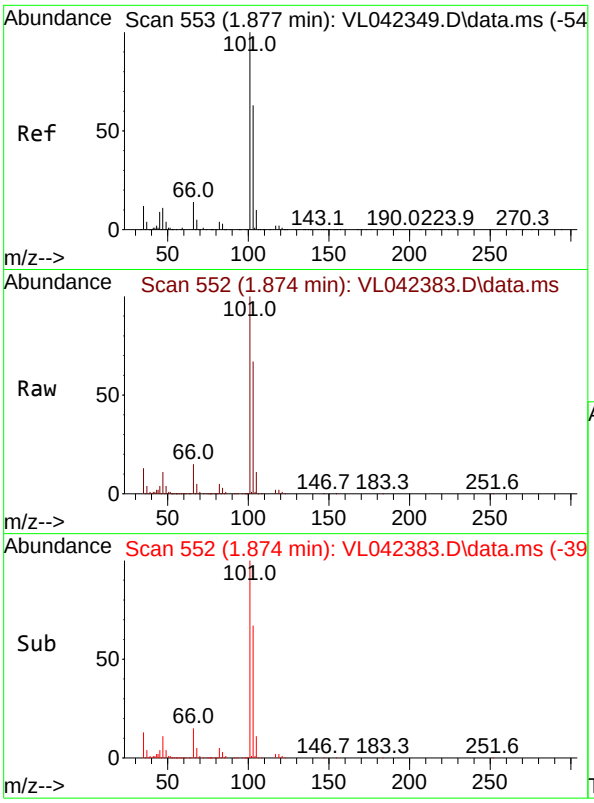


#10
Heptane
Concen: 7.242 ppbv
RT: 4.968 min Scan# 1508
Delta R.T. -0.010 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Tgt Ion: 43 Resp: 211969

Ion	Ratio	Lower	Upper
43	100		
57	52.0	39.9	59.9



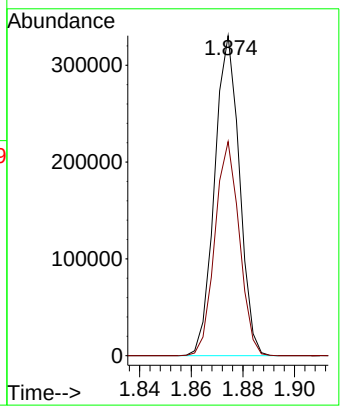


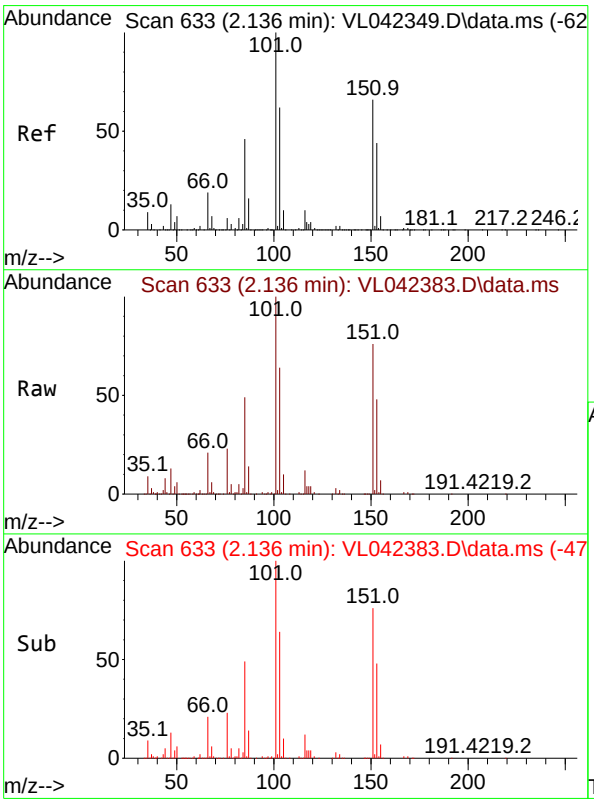
#11
Trichlorofluoromethane
Concen: 9.663 ppbv
RT: 1.874 min Scan# 5
Delta R.T. -0.003 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion:101 Resp: 220733

Ion	Ratio	Lower	Upper
101	100		
103	66.9	50.1	75.1

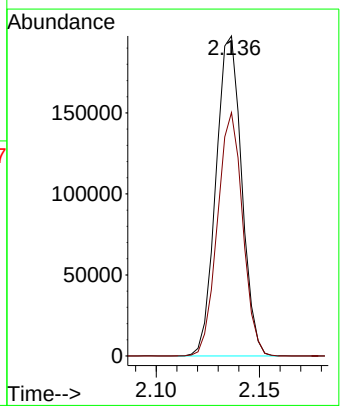


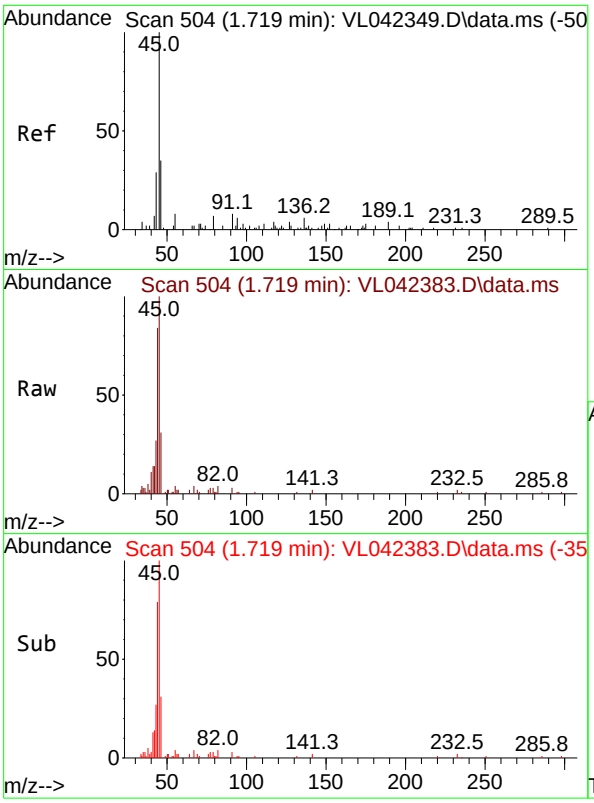


#12
1,1,2-Trichlorotrifluoroethane
Concen: 9.158 ppbv
RT: 2.136 min Scan# 633
Delta R.T. 0.000 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Tgt Ion:101 Resp: 171052

Ion	Ratio	Lower	Upper
101	100		
151	74.6	57.0	85.6



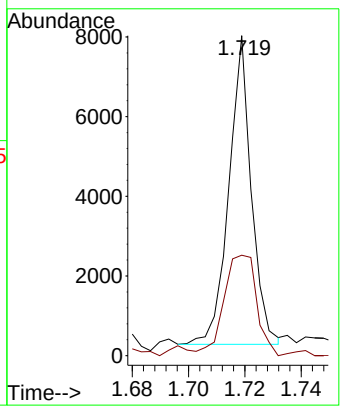


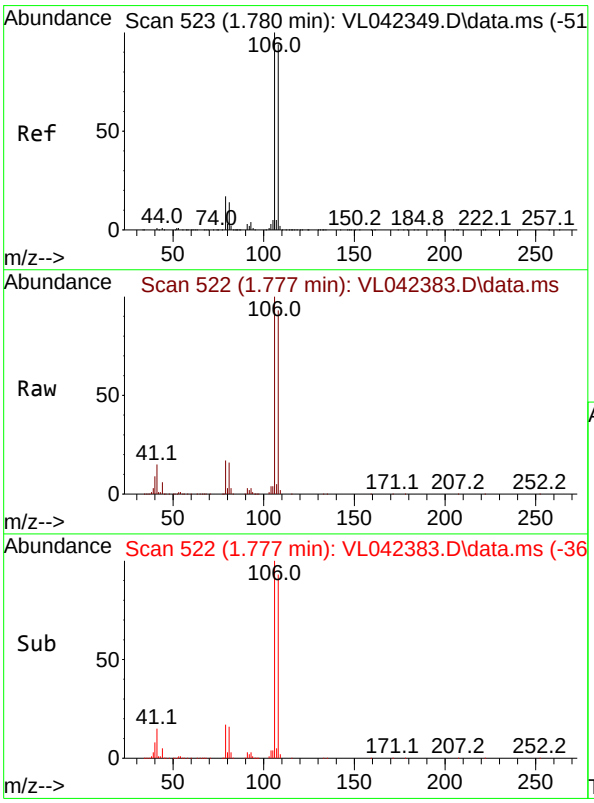
#13
Ethanol
Concen: 2.592 ppbv
RT: 1.719 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 45 Resp: 4291

Ion	Ratio	Lower	Upper
45	100		
46	51.9	21.9	87.7

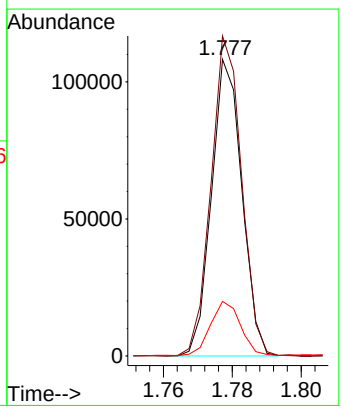


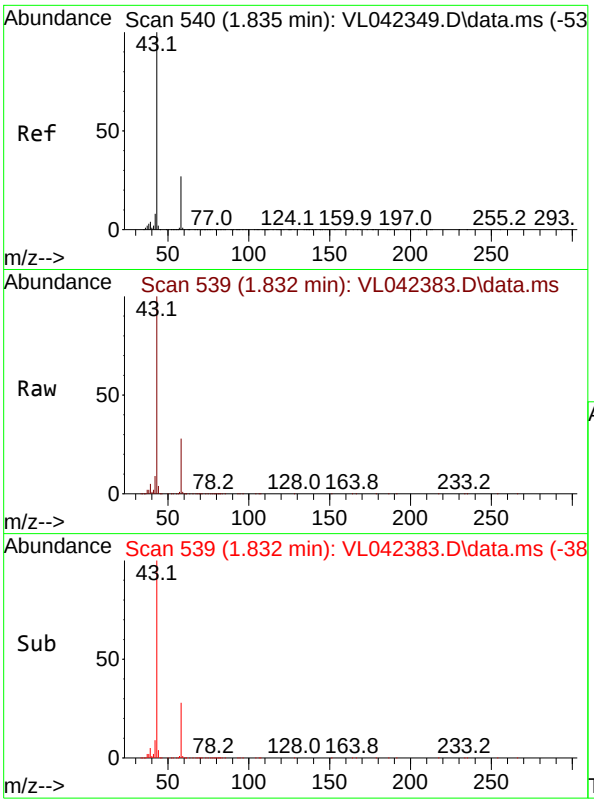


#14
Bromoethene
Concen: 9.442 ppbv
RT: 1.777 min Scan# 522
Delta R.T. -0.003 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Tgt Ion:108 Resp: 66481

Ion	Ratio	Lower	Upper
108	100		
106	108.2	85.9	128.9
79	19.6	13.9	20.9



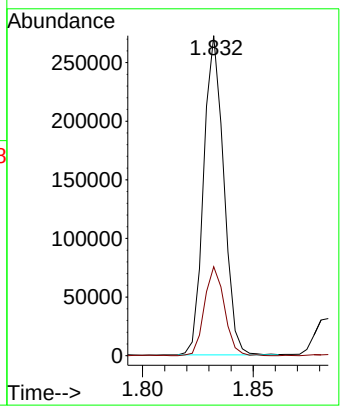


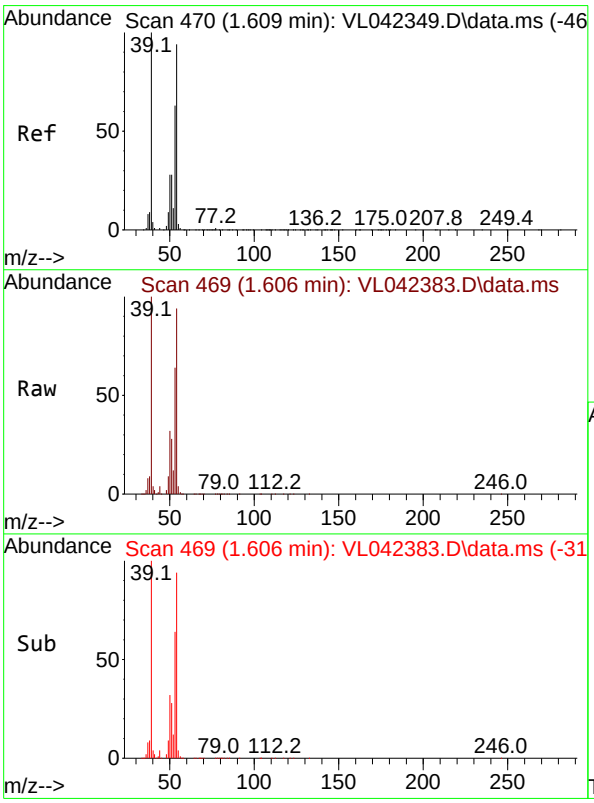
#15
Acetone
Concen: 7.732 ppbv
RT: 1.832 min Scan# 5
Delta R.T. -0.003 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 43 Resp: 172096

Ion	Ratio	Lower	Upper
43	100		
58	28.0	22.4	33.6

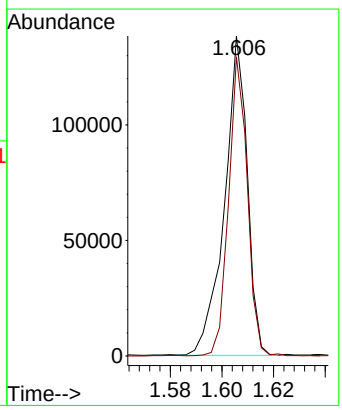


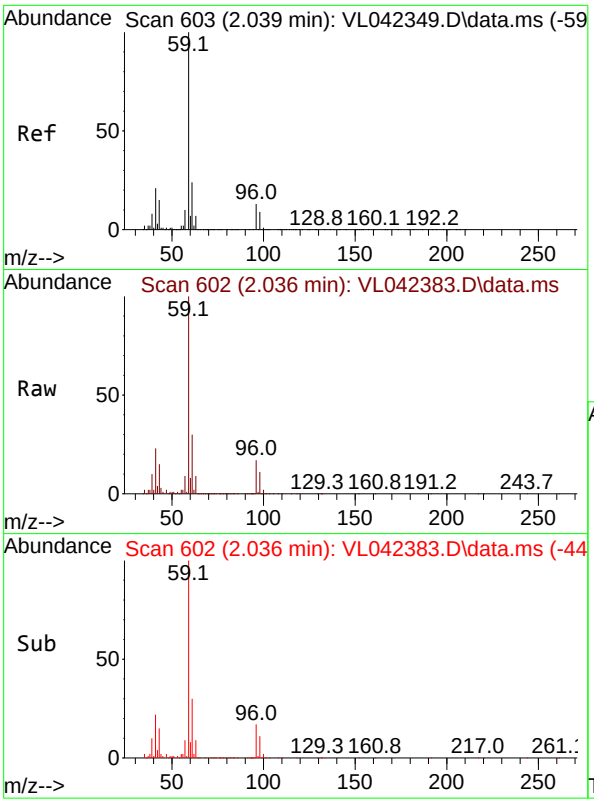


#16
1,3-Butadiene
Concen: 7.945 ppbv
RT: 1.606 min Scan# 469
Delta R.T. -0.003 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Tgt Ion: 39 Resp: 84576

Ion	Ratio	Lower	Upper
39	100		
54	77.5	64.9	97.3



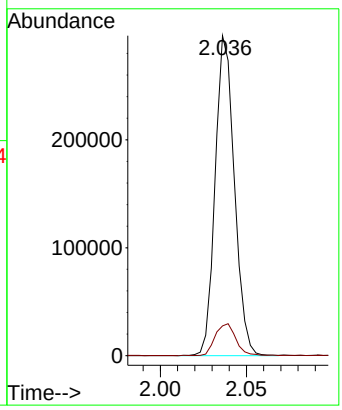


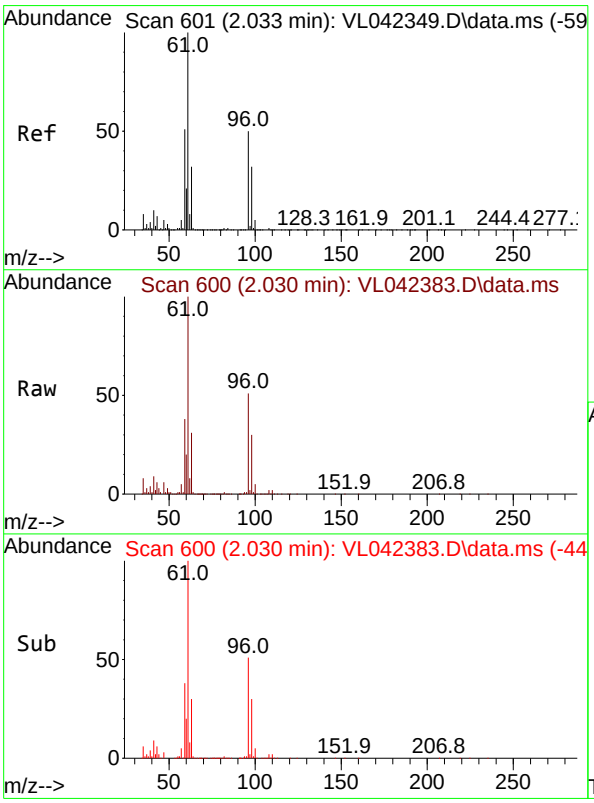
#17
tert-Butyl alcohol
Concen: 8.353 ppbv
RT: 2.036 min Scan# 6
Delta R.T. -0.003 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 59 Resp: 230418

Ion	Ratio	Lower	Upper
59	100		
57	11.0	8.7	13.1

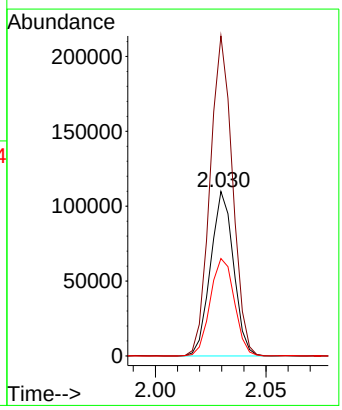


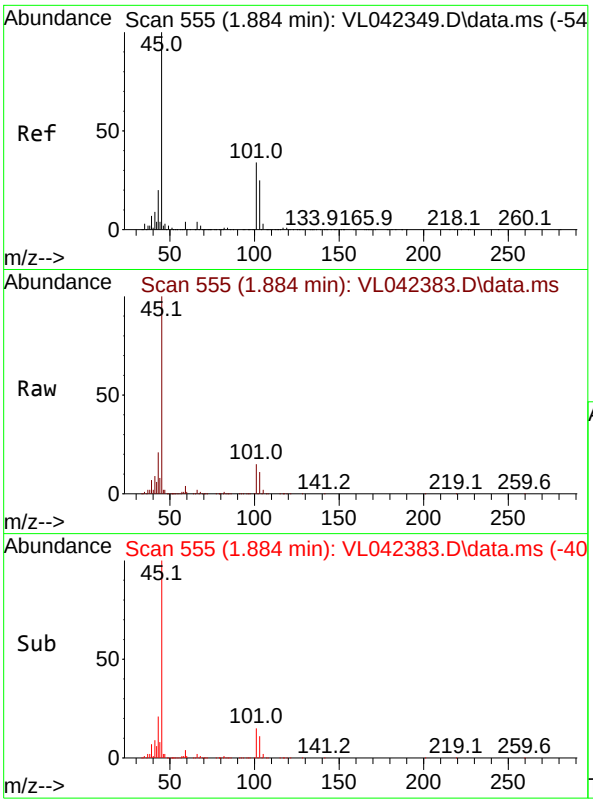


#18
1,1-Dichloroethene
Concen: 9.121 ppbv
RT: 2.030 min Scan# 600
Delta R.T. -0.003 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Tgt Ion: 96 Resp: 79587

Ion	Ratio	Lower	Upper
96	100		
61	194.6	160.2	240.2
98	59.2	51.0	76.4



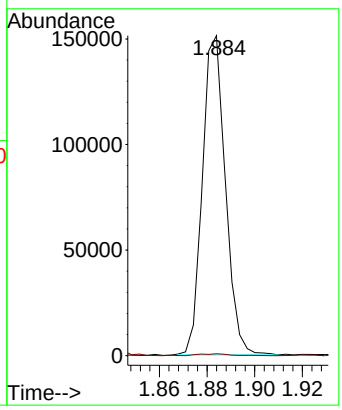


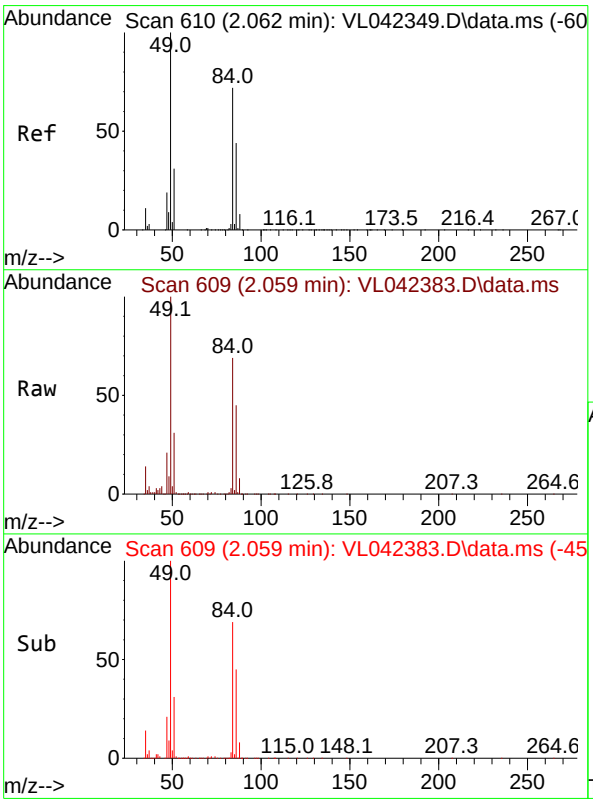
#19
Isopropyl Alcohol
Concen: 8.208 ppbv
RT: 1.884 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 45 Resp: 101483

Ion	Ratio	Lower	Upper
45	100		
58	47.5	34.5	51.7

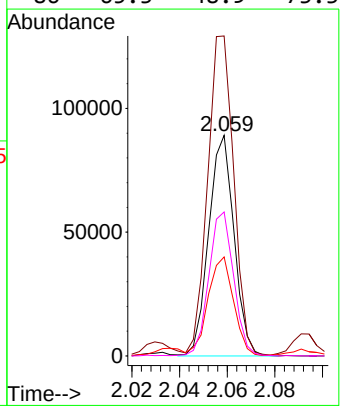


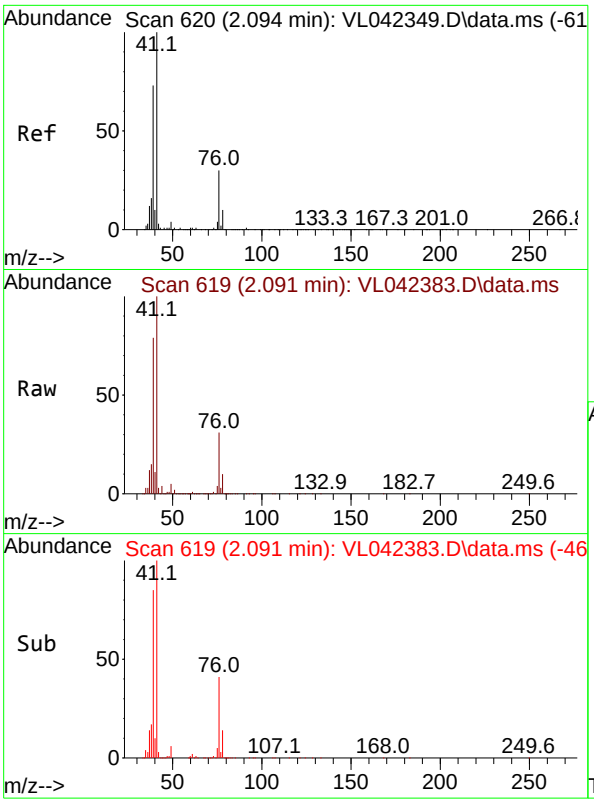


#20
Methylene Chloride
Concen: 7.556 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.003 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Tgt Ion: 84 Resp: 65868

Ion	Ratio	Lower	Upper
84	100		
49	143.9	111.6	167.4
51	44.2	35.1	52.7
86	65.3	48.9	73.3



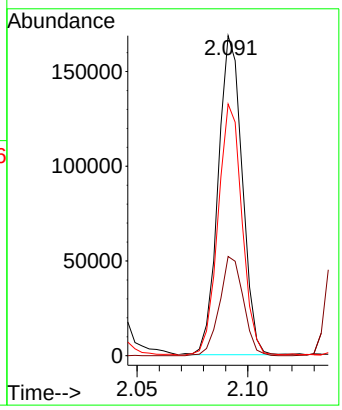


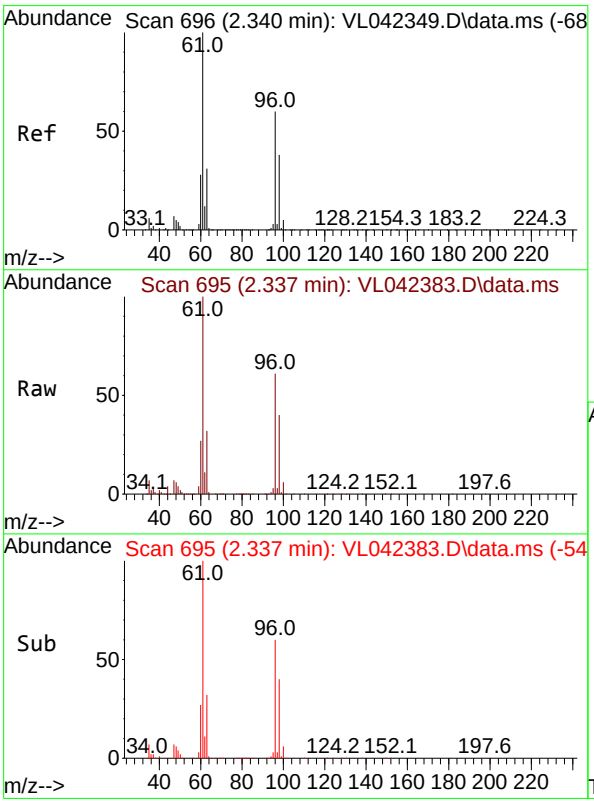
#21
Allyl Chloride
Concen: 8.263 ppbv
RT: 2.091 min Scan# 61
Delta R.T. -0.003 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 41 Resp: 126980

Ion	Ratio	Lower	Upper
41	100		
76	30.8	24.8	37.2
39	78.2	60.6	90.8

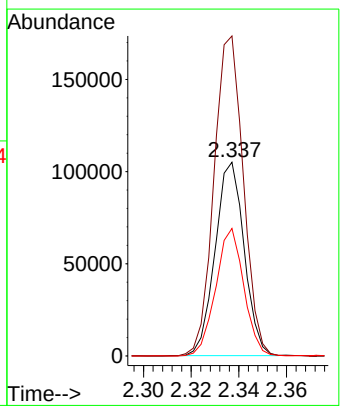


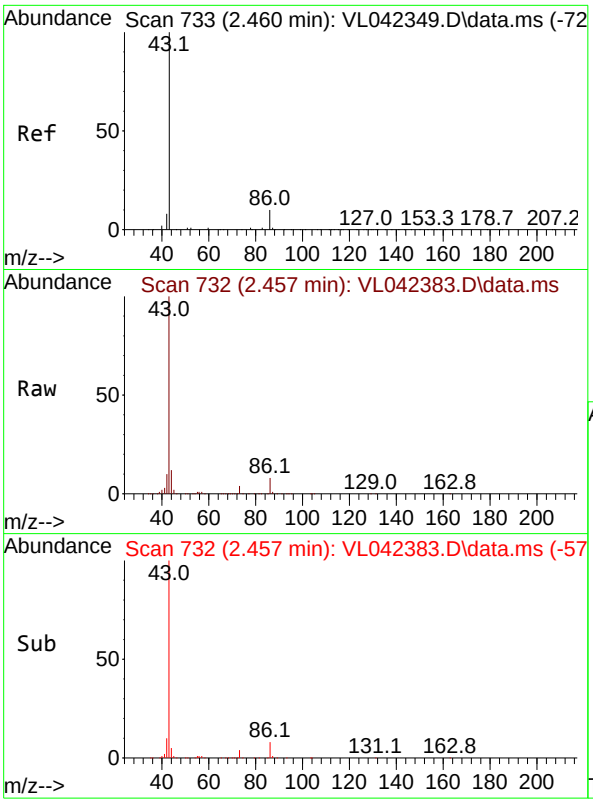


#22
trans-1,2-Dichloroethene
Concen: 8.938 ppbv
RT: 2.337 min Scan# 695
Delta R.T. -0.003 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Tgt Ion: 96 Resp: 88798

Ion	Ratio	Lower	Upper
96	100		
61	165.4	133.7	200.5
98	65.9	50.3	75.5



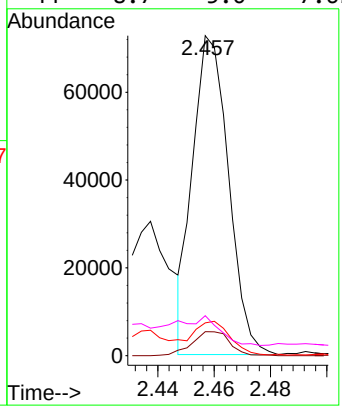


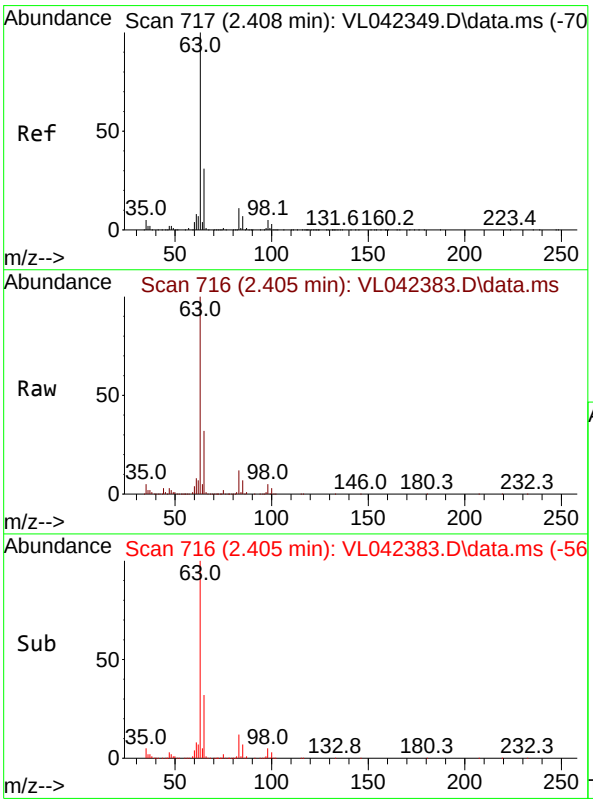
#23
Vinyl Acetate
Concen: 7.119 ppbv
RT: 2.457 min Scan# 7
Delta R.T. -0.003 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 43 Resp: 64135

Ion	Ratio	Lower	Upper
43	100		
86	7.5	6.5	9.7
42	9.8	7.8	11.8
44	8.7	5.0	7.6#

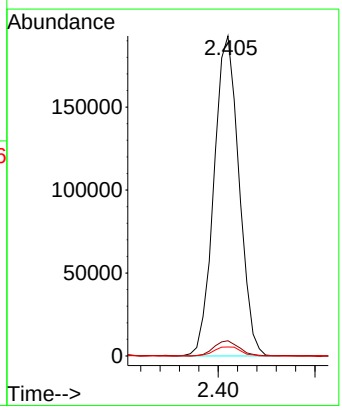


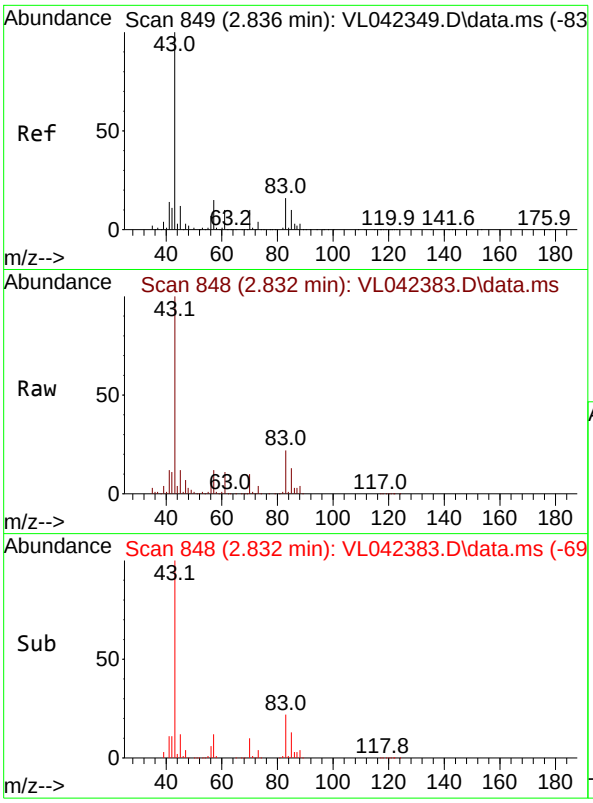


#24
1,1-Dichloroethane
Concen: 9.191 ppbv
RT: 2.405 min Scan# 716
Delta R.T. -0.003 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Tgt Ion: 63 Resp: 173462

Ion	Ratio	Lower	Upper
63	100		
98	4.7	2.3	6.8
100	2.8	1.6	4.8



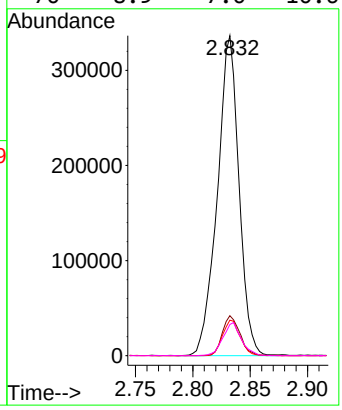


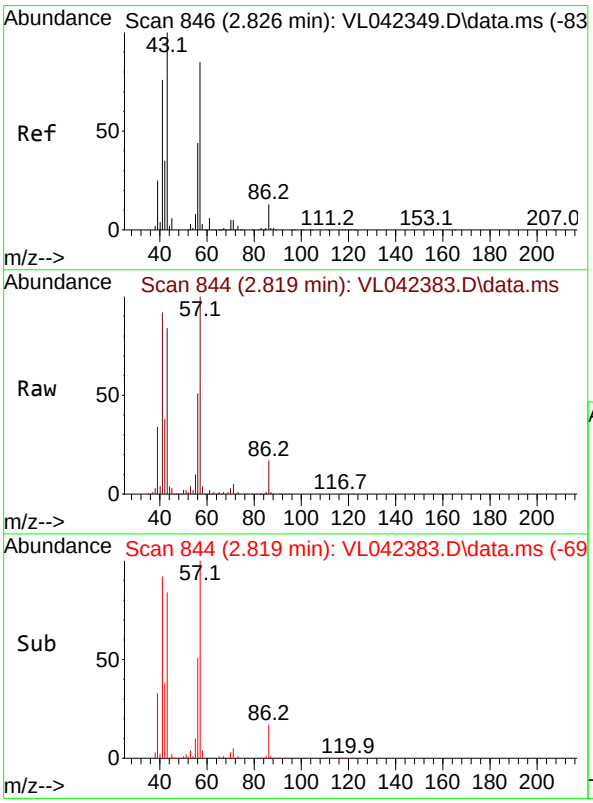
#25
Ethyl Acetate
Concen: 8.045 ppbv
RT: 2.832 min Scan# 84
Delta R.T. -0.003 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 43 Resp: 441499

Ion	Ratio	Lower	Upper
43	100		
45	10.2	8.3	12.5
61	9.0	7.3	10.9
70	8.9	7.0	10.6

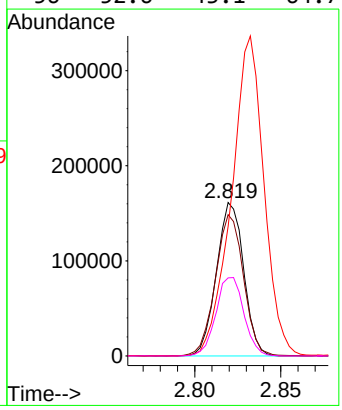


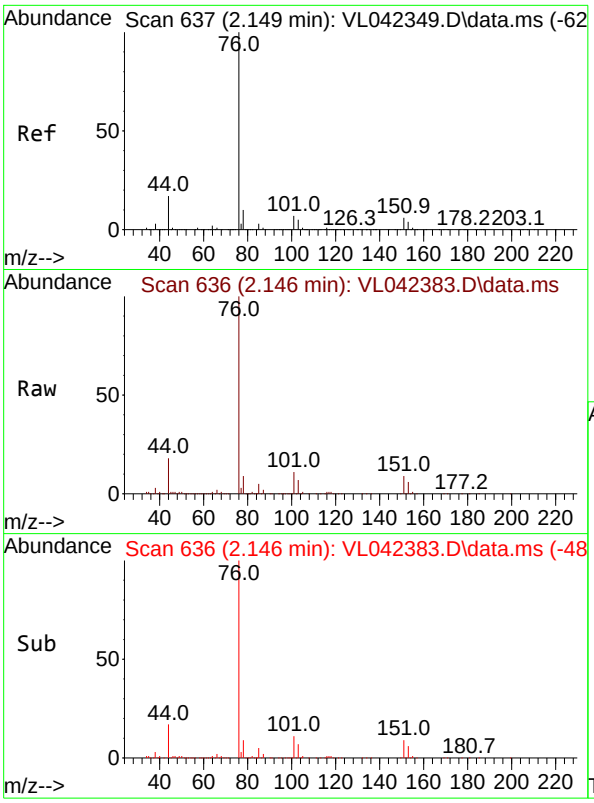


#26
Hexane
Concen: 7.989 ppbv
RT: 2.819 min Scan# 844
Delta R.T. -0.006 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Tgt Ion: 57 Resp: 177427

Ion	Ratio	Lower	Upper
57	100		
41	95.1	77.9	116.9
43	249.3	208.4	312.6
56	52.6	43.1	64.7



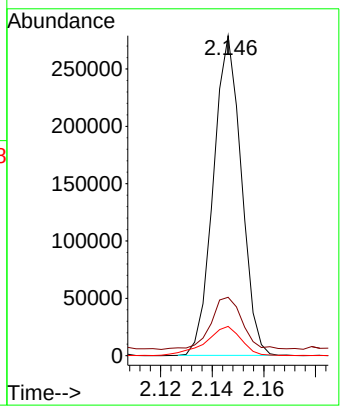


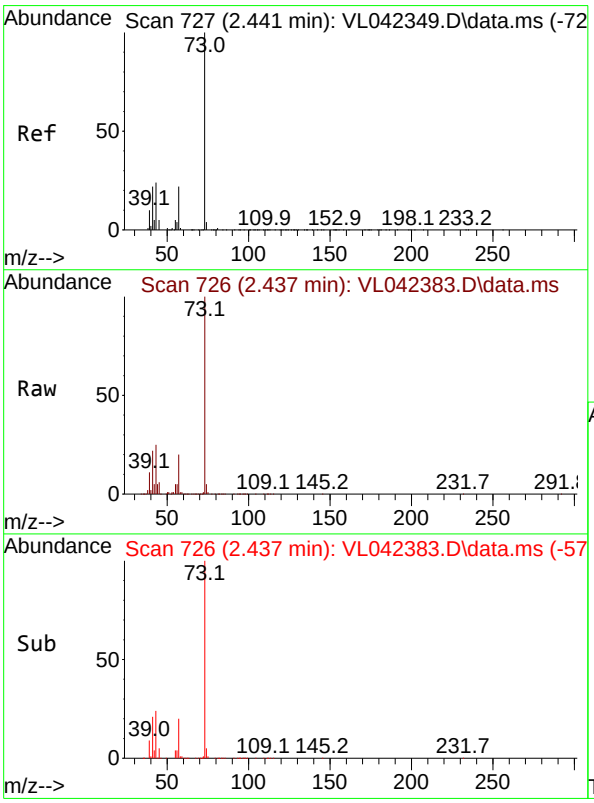
#27
Carbon Disulfide
Concen: 8.818 ppbv
RT: 2.146 min Scan# 6
Delta R.T. -0.003 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 76 Resp: 209681

Ion	Ratio	Lower	Upper
76	100		
44	17.8	15.5	23.3
78	11.8	9.3	13.9

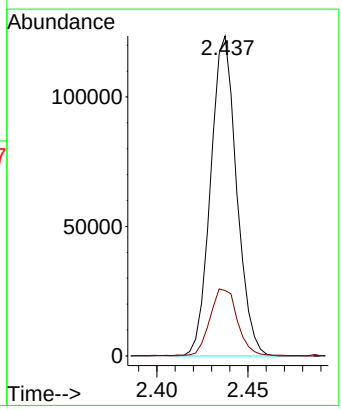


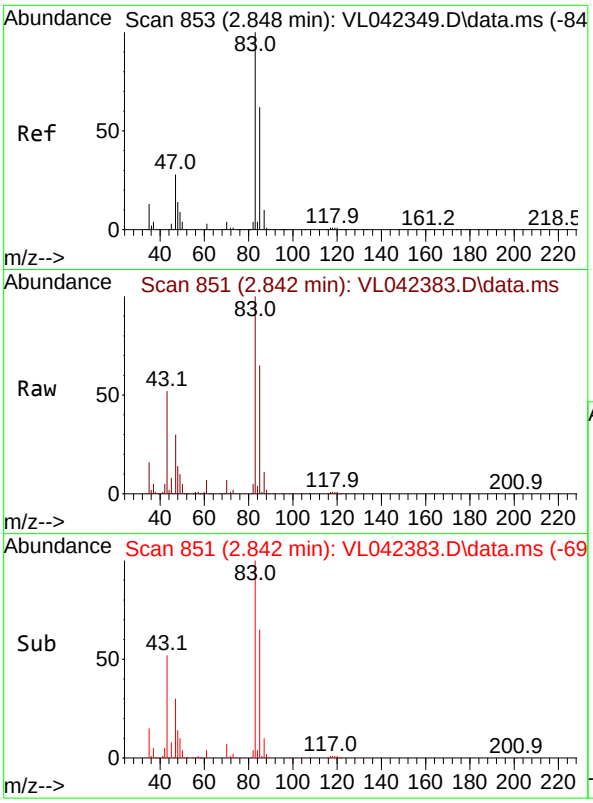


#28
Methyl tert-Butyl Ether
Concen: 8.416 ppbv
RT: 2.437 min Scan# 726
Delta R.T. -0.003 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Tgt Ion: 73 Resp: 122464

Ion	Ratio	Lower	Upper
73	100		
57	22.3	21.3	31.9



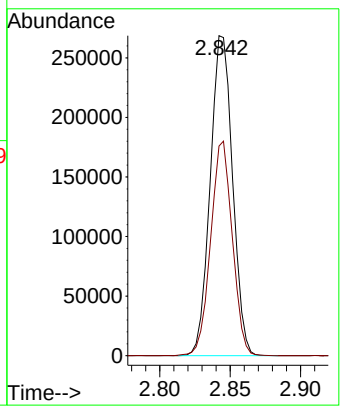


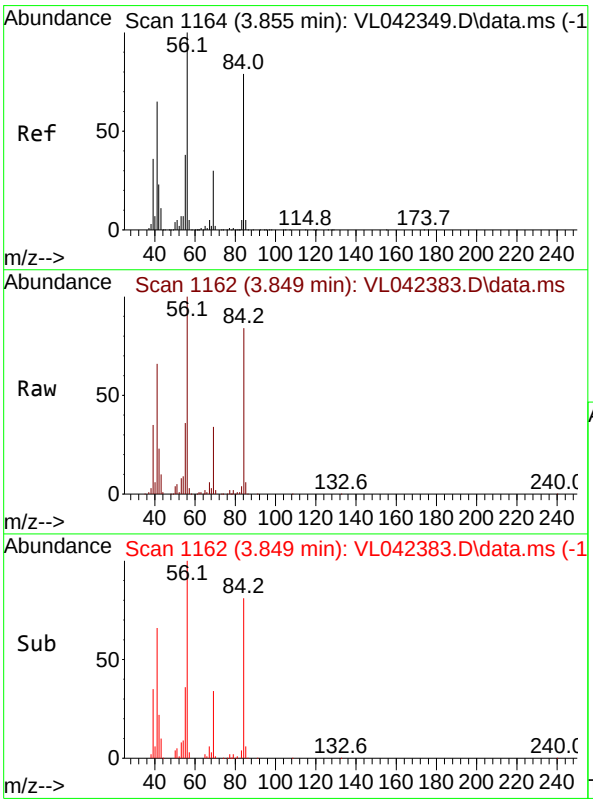
#29
Chloroform
Concen: 9.453 ppbv
RT: 2.842 min Scan# 8
Delta R.T. -0.006 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 83 Resp: 296747

Ion	Ratio	Lower	Upper
83	100		
85	65.5	50.0	75.0

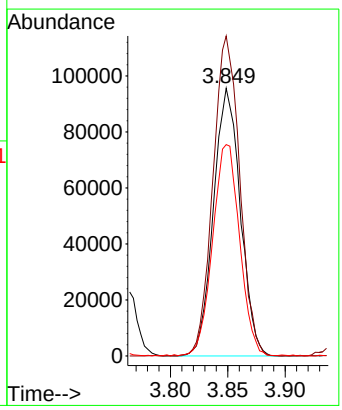


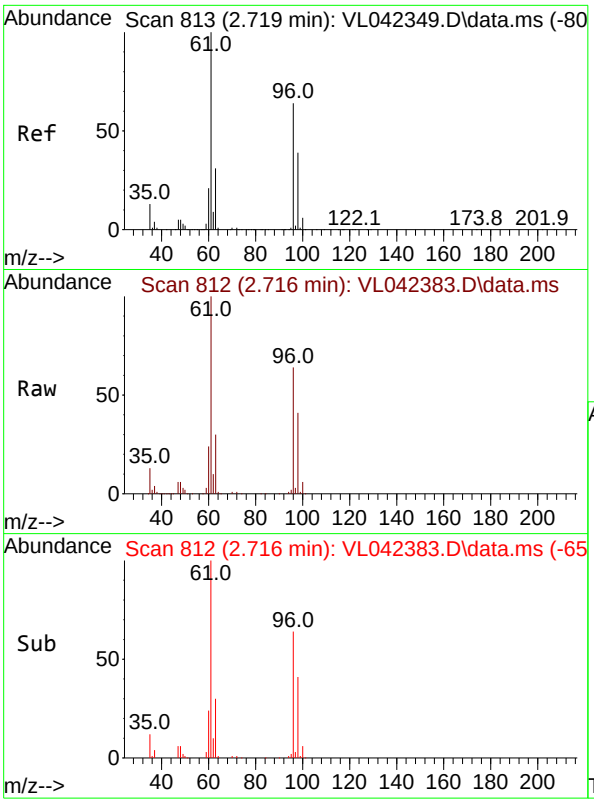


#30
Cyclohexane
Concen: 8.673 ppbv
RT: 3.849 min Scan# 1162
Delta R.T. -0.006 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Tgt Ion: 84 Resp: 155716

Ion	Ratio	Lower	Upper
84	100		
56	118.9	101.0	151.4
41	79.9	67.4	101.0



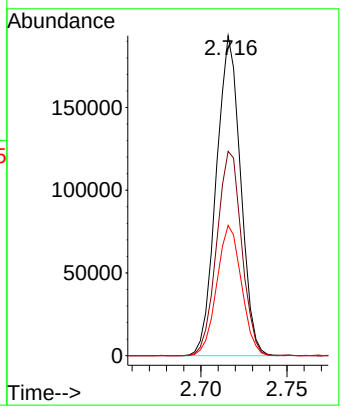


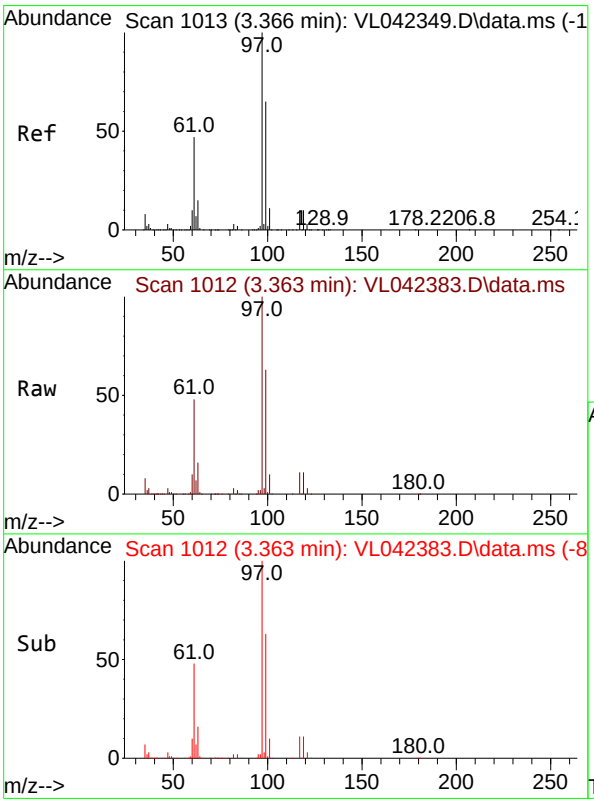
#31
cis-1,2-Dichloroethene
Concen: 9.000 ppbv
RT: 2.716 min Scan# 8
Delta R.T. -0.003 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 61 Resp: 190037

Ion	Ratio	Lower	Upper
61	100		
96	63.8	50.8	76.2
98	40.7	30.9	46.3

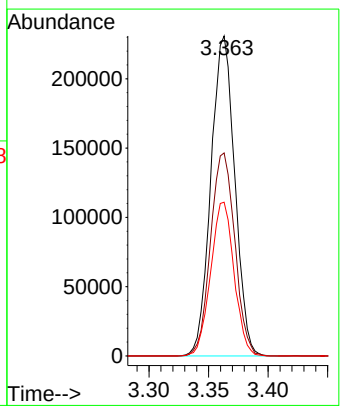


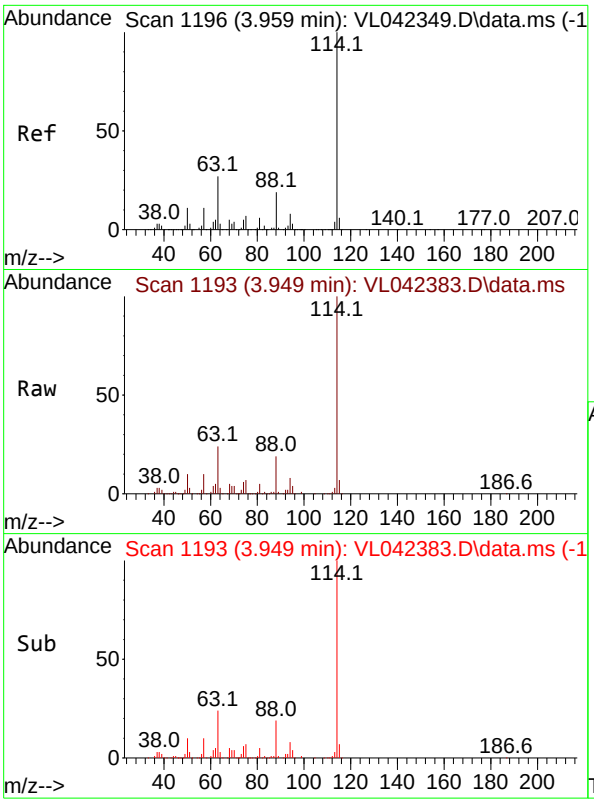


#32
1,1,1-Trichloroethane
Concen: 9.097 ppbv
RT: 3.363 min Scan# 1012
Delta R.T. -0.003 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Tgt Ion: 97 Resp: 321462

Ion	Ratio	Lower	Upper
97	100		
99	64.5	51.0	76.4
61	47.1	38.8	58.2



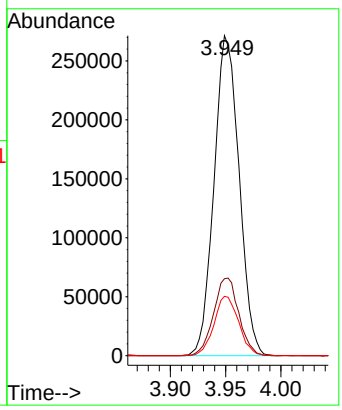


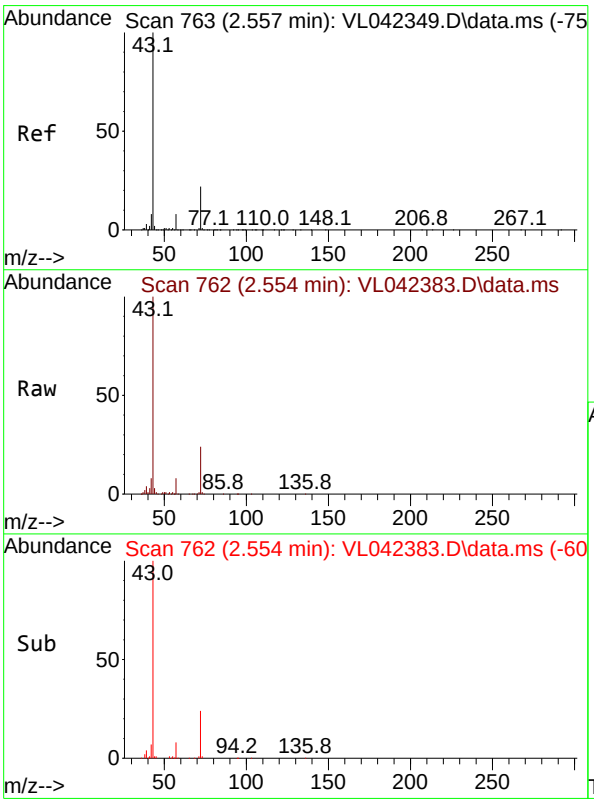
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.949 min Scan# 11
Delta R.T. -0.010 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion:114 Resp: 427541

Ion	Ratio	Lower	Upper
114	100		
63	24.4	21.8	32.6
88	18.3	15.5	23.3

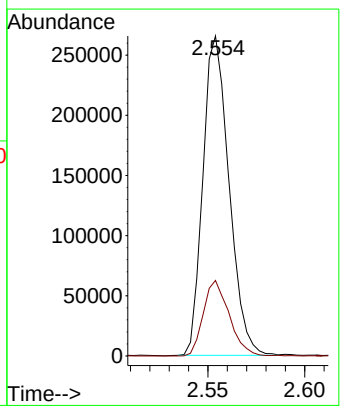


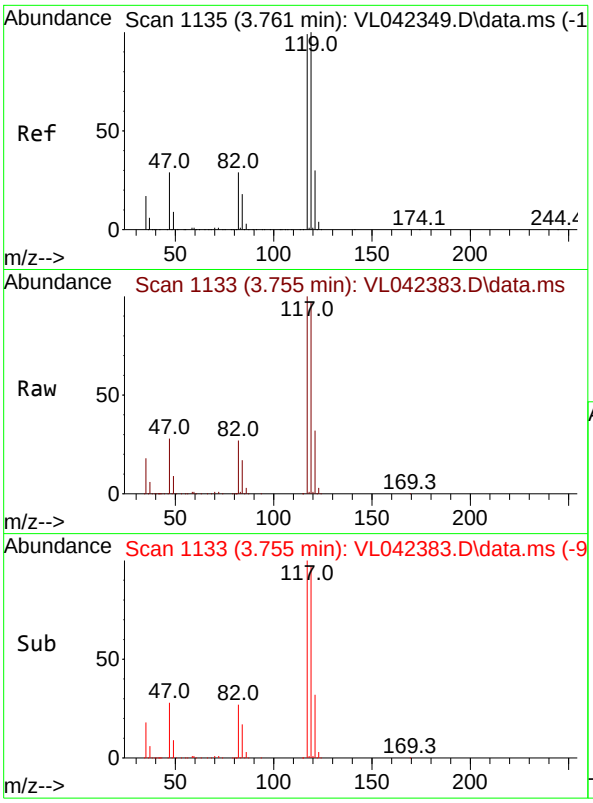


#34
2-Butanone
Concen: 7.367 ppbv
RT: 2.554 min Scan# 762
Delta R.T. -0.003 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Tgt Ion: 43 Resp: 249113

Ion	Ratio	Lower	Upper
43	100		
72	23.5	18.2	27.2



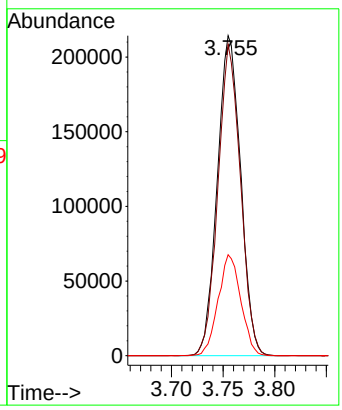


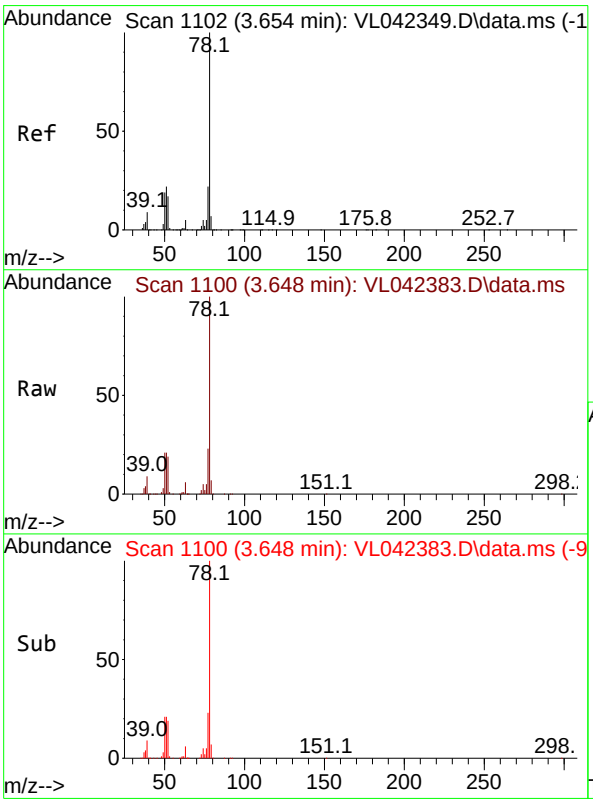
#35
Carbon Tetrachloride
Concen: 8.695 ppbv
RT: 3.755 min Scan# 1
Delta R.T. -0.006 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion:117 Resp: 336452

Ion	Ratio	Lower	Upper
117	100		
119	97.3	80.5	120.7
121	31.5	24.2	36.2

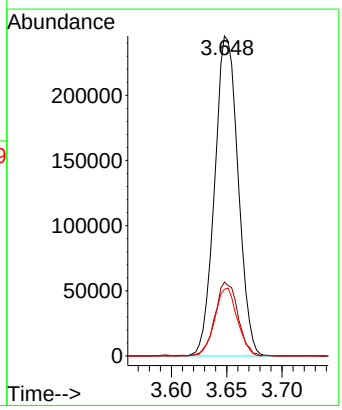


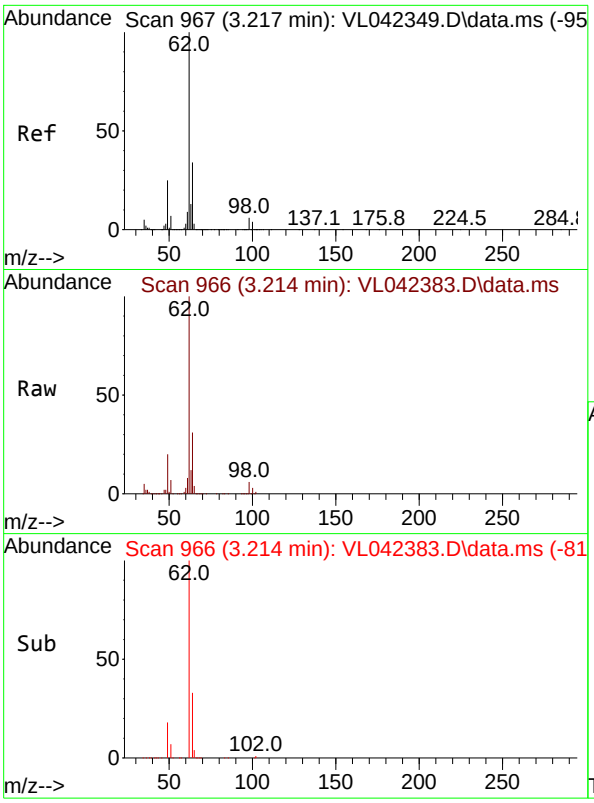


#36
Benzene
Concen: 7.842 ppbv
RT: 3.648 min Scan# 1100
Delta R.T. -0.006 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Tgt Ion: 78 Resp: 361650

Ion	Ratio	Lower	Upper
78	100		
77	23.0	17.4	26.0
50	20.9	15.5	23.3



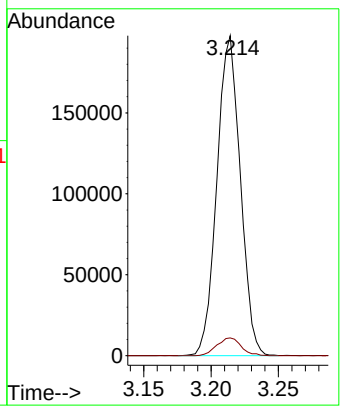


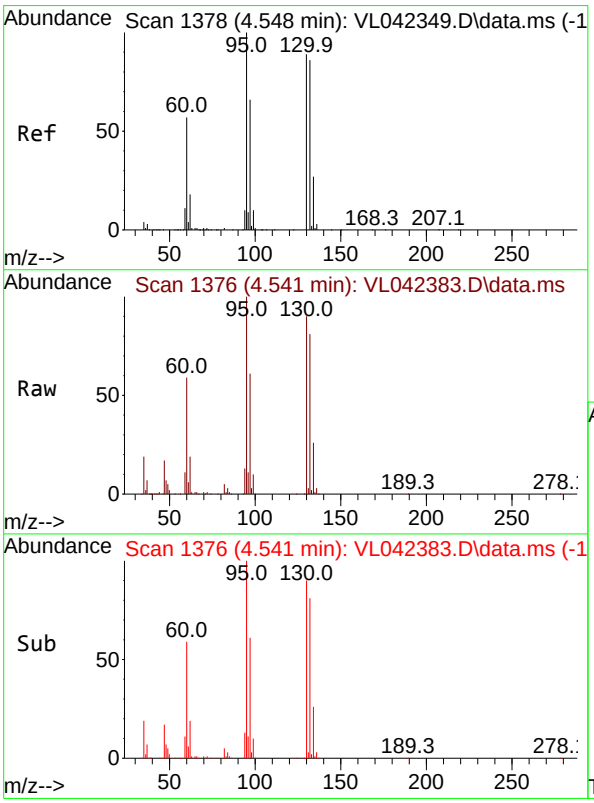
#37
1,2-Dichloroethane
Concen: 8.638 ppbv
RT: 3.214 min Scan# 9
Delta R.T. -0.003 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 62 Resp: 239079

Ion	Ratio	Lower	Upper
62	100		
98	5.8	5.1	7.7

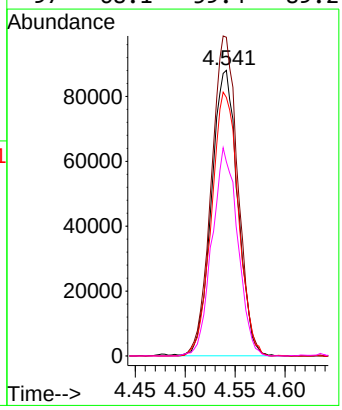


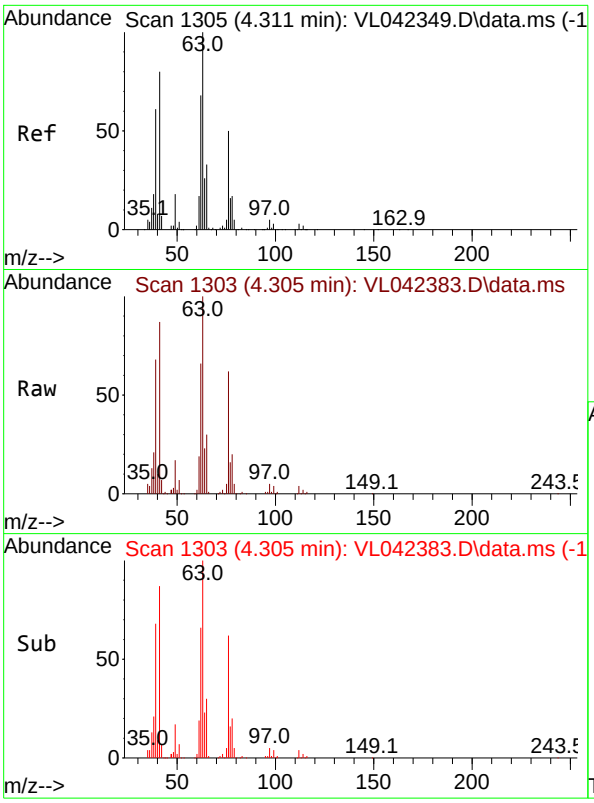


#38
Trichloroethene
Concen: 7.964 ppbv
RT: 4.541 min Scan# 1376
Delta R.T. -0.006 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Tgt Ion:130 Resp: 160521

Ion	Ratio	Lower	Upper
130	100		
95	111.6	89.8	134.6
132	90.5	77.7	116.5
97	68.1	59.4	89.2



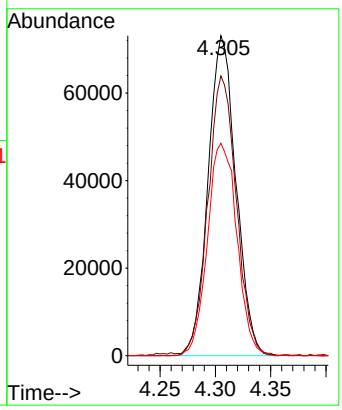


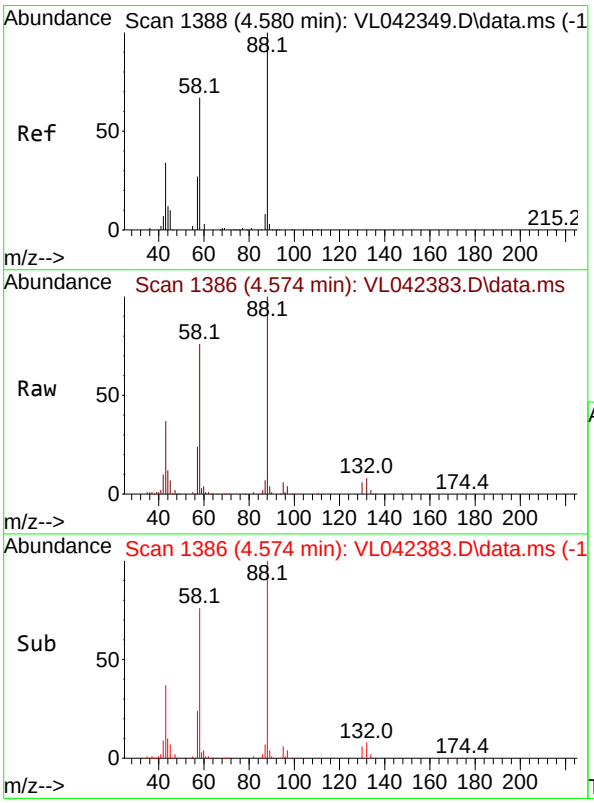
#39
1,2-Dichloropropane
Concen: 7.458 ppbv
RT: 4.305 min Scan# 1
Delta R.T. -0.006 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 63 Resp: 128161

Ion	Ratio	Lower	Upper
63	100		
41	87.2	64.2	96.2
62	66.4	54.3	81.5

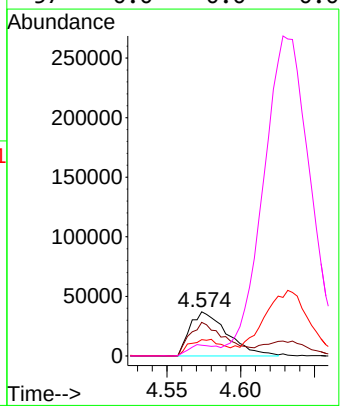


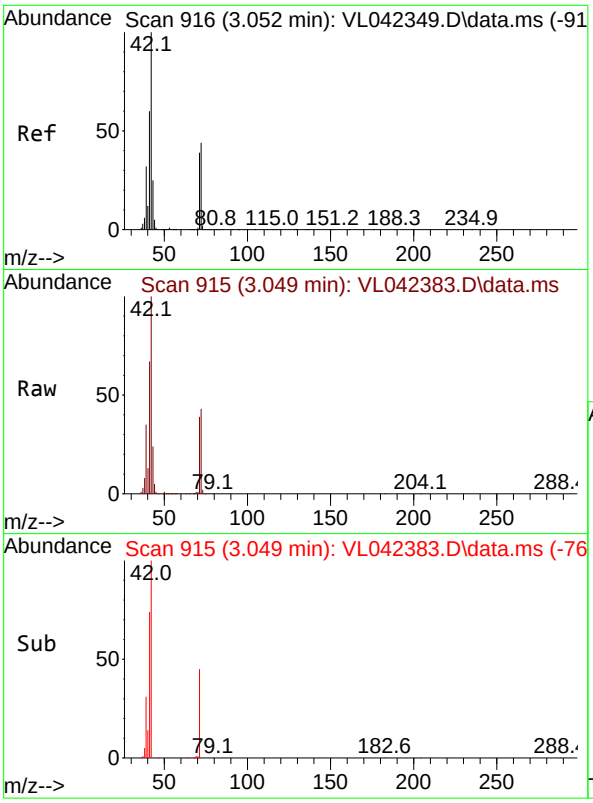


#40
1,4-Dioxane
Concen: 6.962 ppbv
RT: 4.574 min Scan# 1386
Delta R.T. -0.006 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Tgt Ion: 88 Resp: 65746

Ion	Ratio	Lower	Upper
88	100		
58	69.9	61.4	92.0
43	32.8	23.2	34.8
57	0.0	0.0	0.0



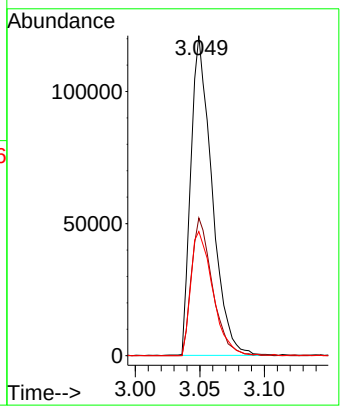


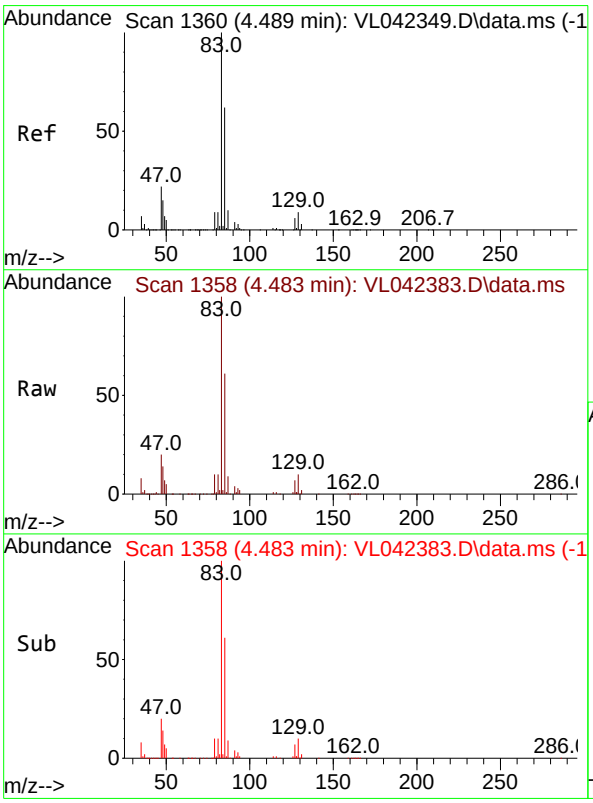
#41
Tetrahydrofuran
Concen: 6.984 ppbv
RT: 3.049 min Scan# 91
Delta R.T. -0.003 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 42 Resp: 137694

Ion	Ratio	Lower	Upper
42	100		
72	42.8	32.3	48.5
71	40.9	31.4	47.2

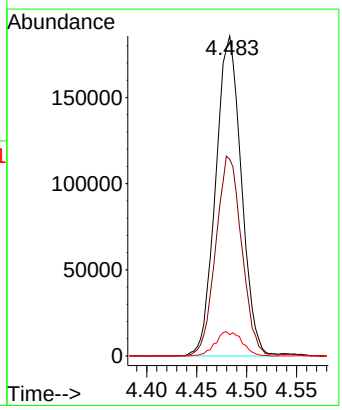


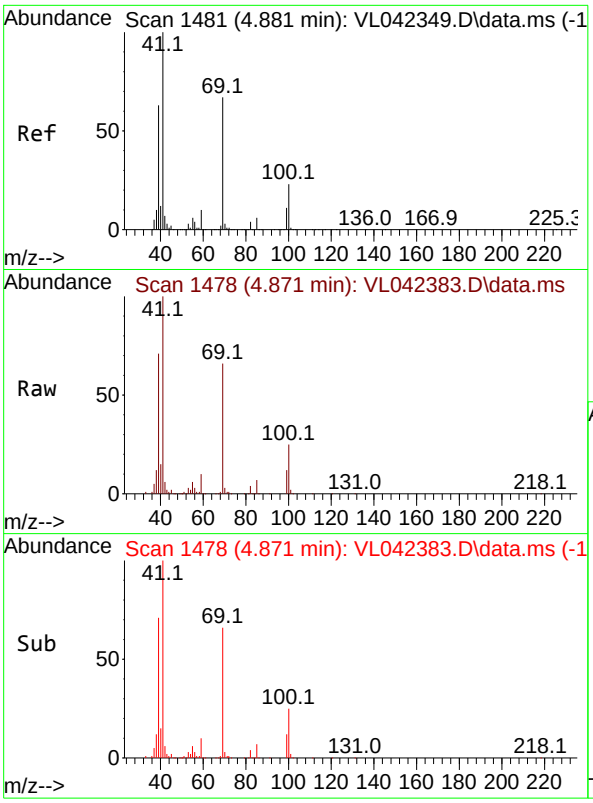


#42
Bromodichloromethane
Concen: 8.632 ppbv
RT: 4.483 min Scan# 1358
Delta R.T. -0.006 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Tgt Ion: 83 Resp: 332490

Ion	Ratio	Lower	Upper
83	100		
85	61.4	49.7	74.5
127	6.6	5.1	7.7



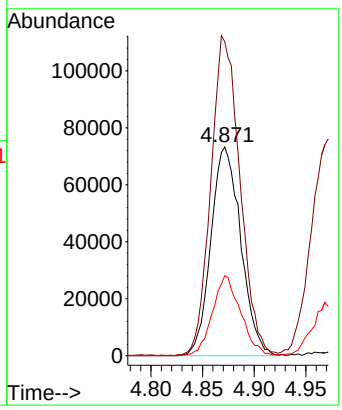


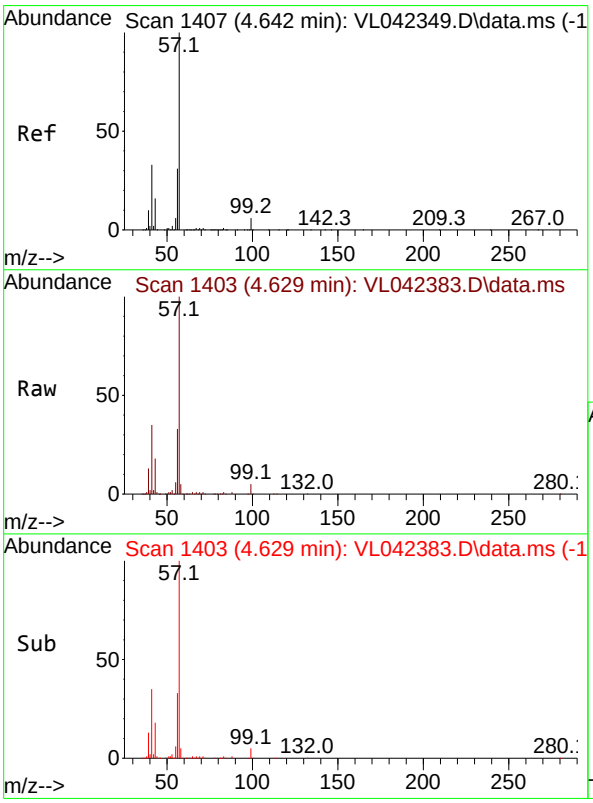
#43
Methyl Methacrylate
Concen: 7.098 ppbv
RT: 4.871 min Scan# 14
Delta R.T. -0.010 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 69 Resp: 147517

Ion	Ratio	Lower	Upper
69	100		
41	149.5	118.6	177.8
100	36.1	28.2	42.2

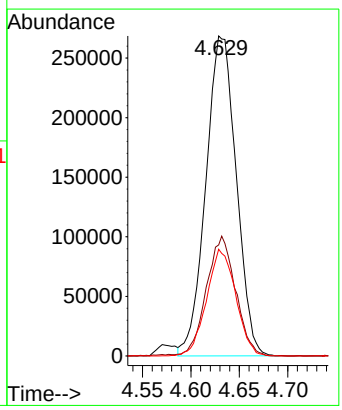


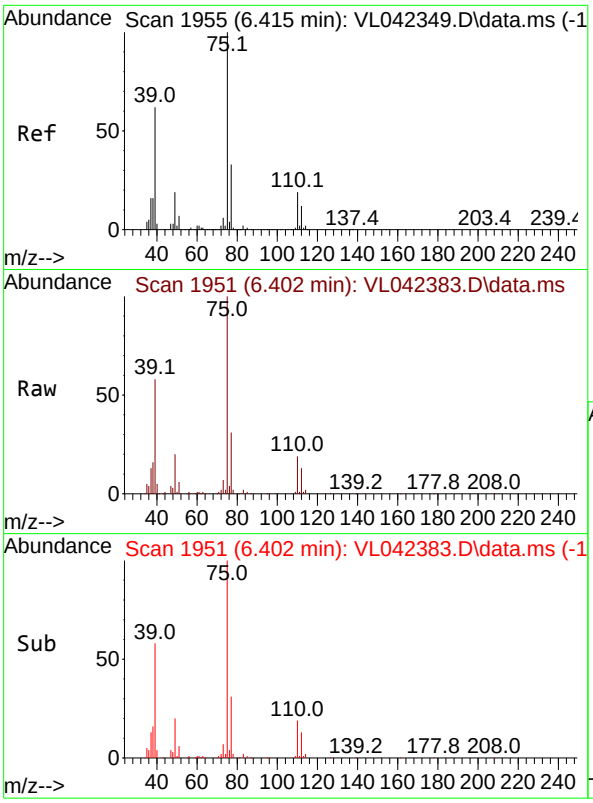


#44
2,2,4-Trimethylpentane
Concen: 7.374 ppbv
RT: 4.629 min Scan# 1403
Delta R.T. -0.013 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Tgt Ion: 57 Resp: 587274

Ion	Ratio	Lower	Upper
57	100		
41	36.2	27.2	40.8
56	32.0	25.7	38.5



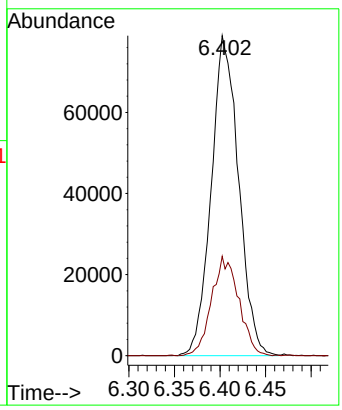


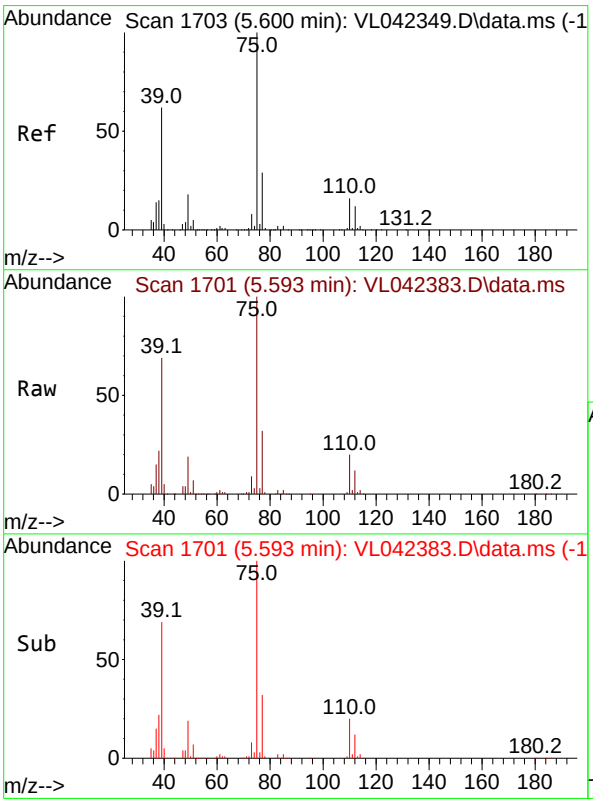
#45
t-1,3-Dichloropropene
Concen: 7.756 ppbv
RT: 6.402 min Scan# 1
Delta R.T. -0.013 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 75 Resp: 164658

Ion	Ratio	Lower	Upper
75	100		
77	31.1	27.0	40.6

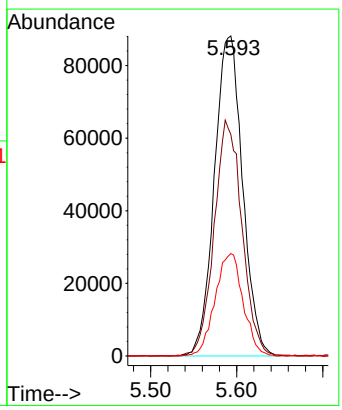


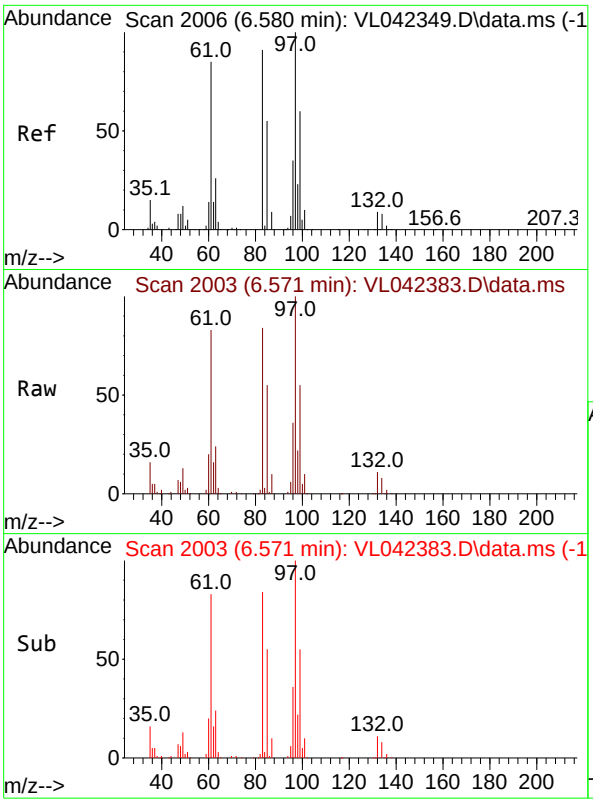


#46
cis-1,3-Dichloropropene
Concen: 7.729 ppbv
RT: 5.593 min Scan# 1701
Delta R.T. -0.006 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Tgt Ion: 75 Resp: 200823

Ion	Ratio	Lower	Upper
75	100		
39	69.0	50.0	75.0
77	32.0	23.0	34.6



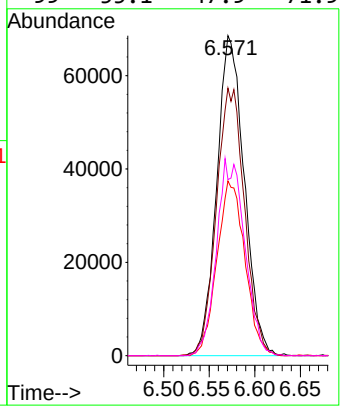


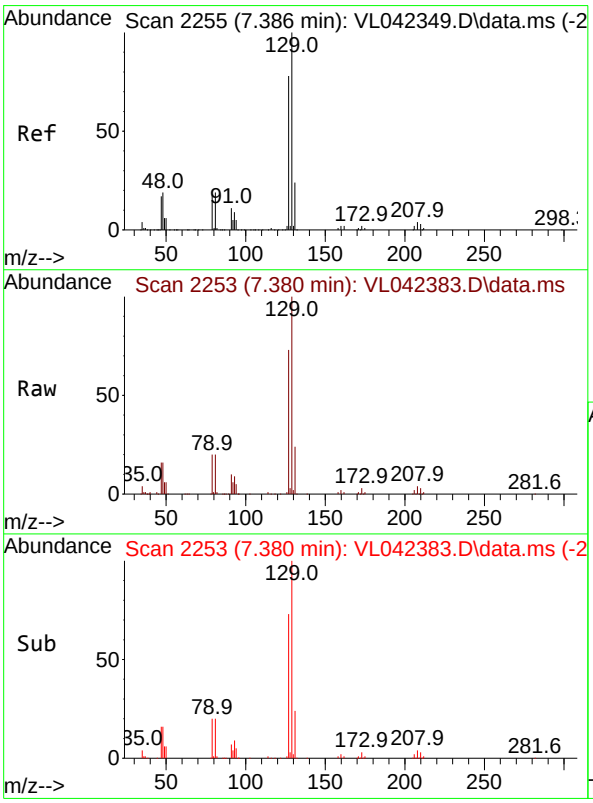
#47
1,1,2-Trichloroethane
Concen: 8.199 ppbv
RT: 6.571 min Scan# 2
Delta R.T. -0.010 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 97 Resp: 143547

Ion	Ratio	Lower	Upper
97	100		
83	83.6	72.8	109.2
85	54.6	44.2	66.4
99	55.1	47.9	71.9

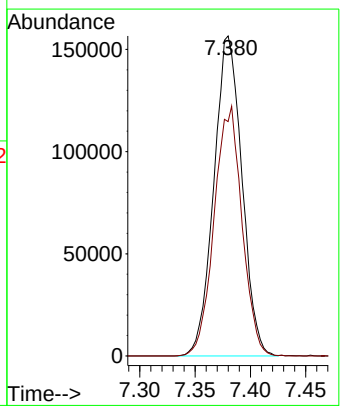


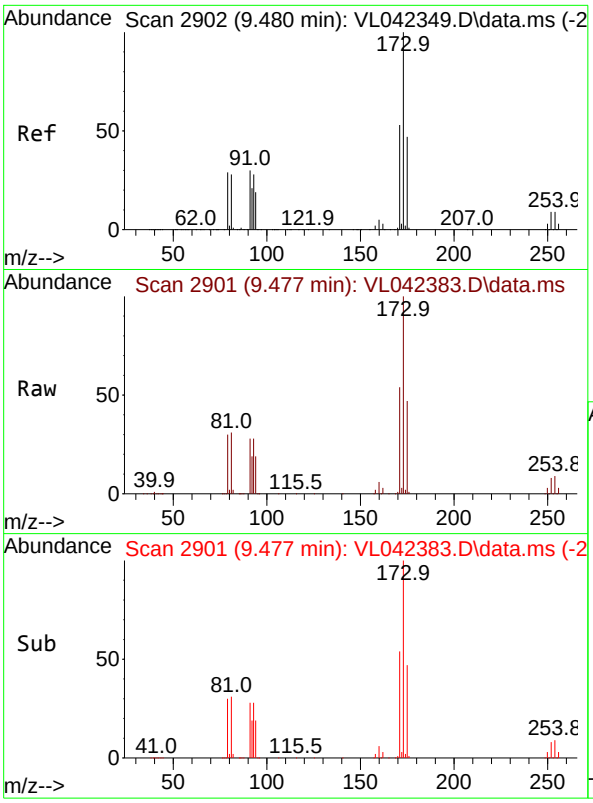


#48
Dibromochloromethane
Concen: 8.931 ppbv
RT: 7.380 min Scan# 2253
Delta R.T. -0.006 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Tgt Ion:129 Resp: 276258

Ion	Ratio	Lower	Upper
129	100		
127	77.3	39.1	117.3



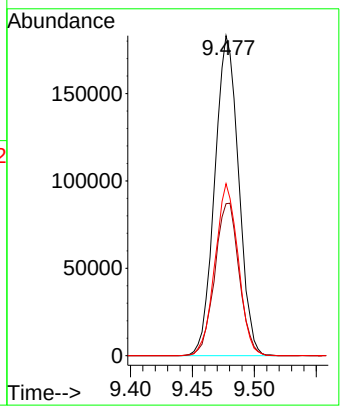


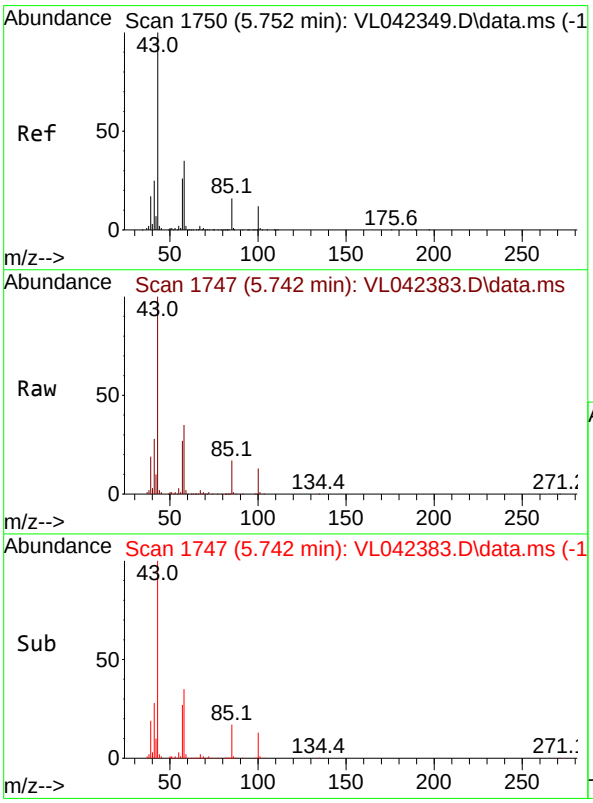
#49
Bromoform
Concen: 9.086 ppbv
RT: 9.477 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion:173 Resp: 245731

Ion	Ratio	Lower	Upper
173	100		
175	48.8	38.2	57.2
171	52.2	40.9	61.3

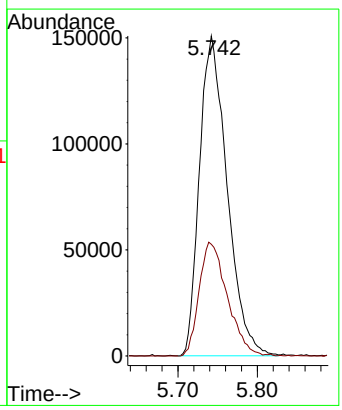


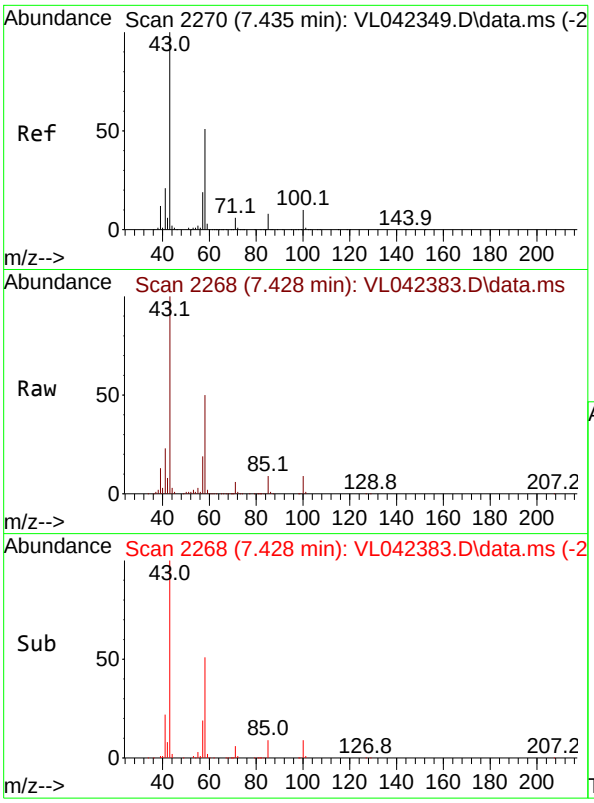


#50
4-Methyl-2-Pentanone
Concen: 6.501 ppbv
RT: 5.742 min Scan# 1747
Delta R.T. -0.010 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Tgt Ion: 43 Resp: 365292

Ion	Ratio	Lower	Upper
43	100		
58	36.3	28.6	43.0



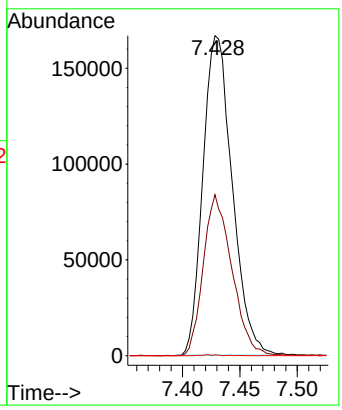


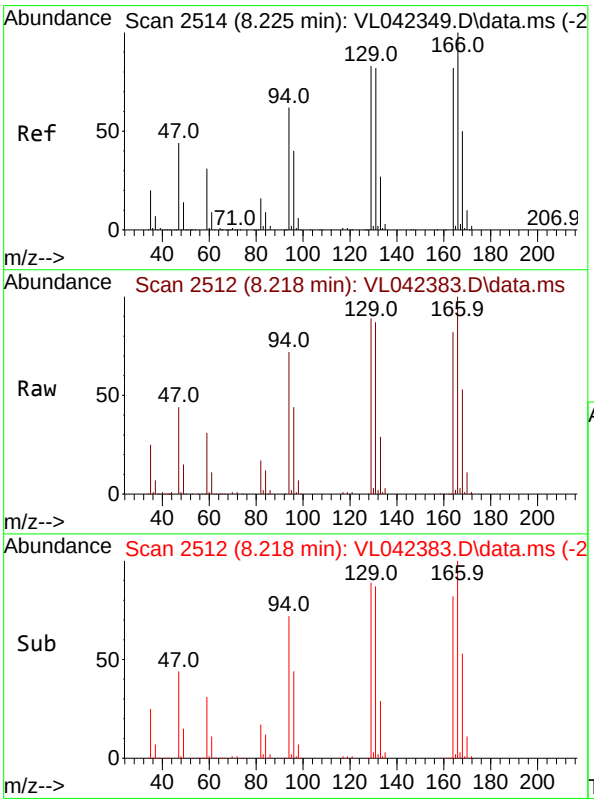
#51
2-Hexanone
Concen: 5.874 ppbv
RT: 7.428 min Scan# 2
Delta R.T. -0.006 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 43 Resp: 296019

Ion	Ratio	Lower	Upper
43	100		
58	49.2	40.2	60.4
98	0.2	0.1	0.1#

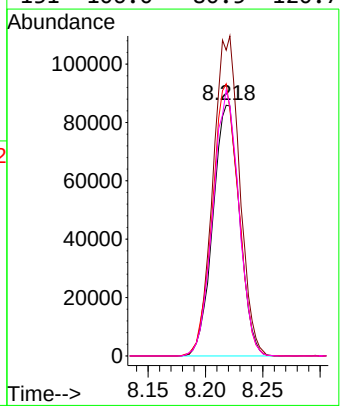


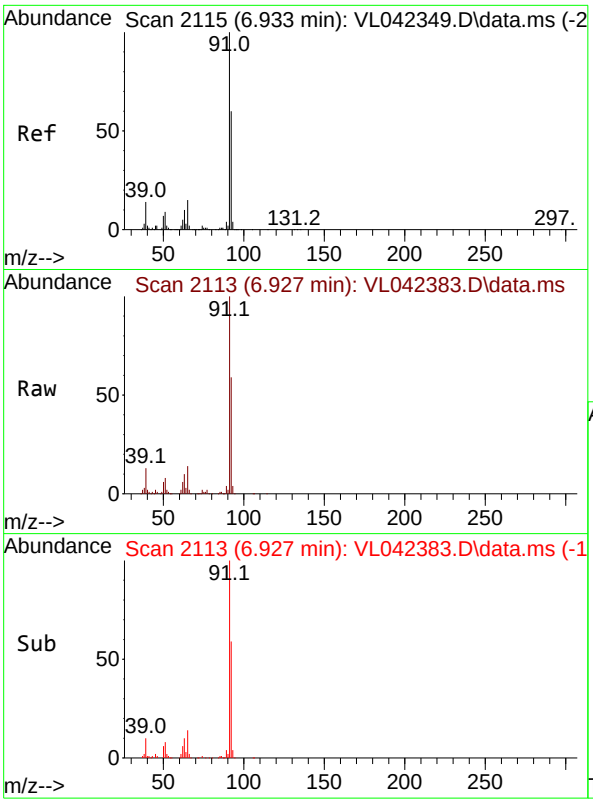


#52
Tetrachloroethene
Concen: 7.759 ppbv
RT: 8.218 min Scan# 2512
Delta R.T. -0.006 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Tgt Ion:164 Resp: 138295

Ion	Ratio	Lower	Upper
164	100		
166	121.9	98.2	147.2
129	108.5	81.8	122.8
131	106.0	80.5	120.7



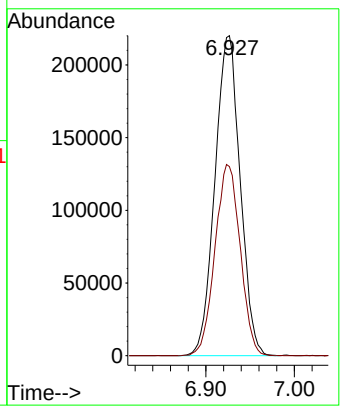


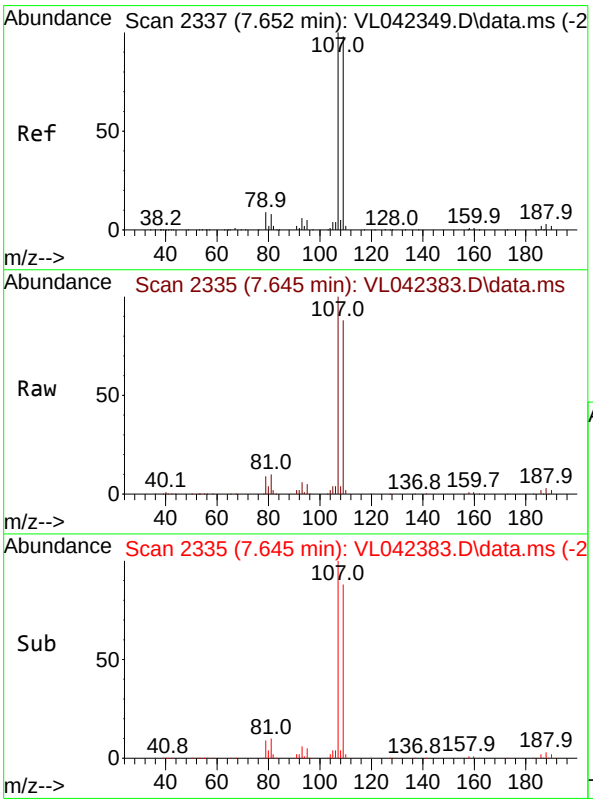
#53
Toluene
Concen: 7.886 ppbv
RT: 6.927 min Scan# 21
Delta R.T. -0.006 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 91 Resp: 436388

Ion	Ratio	Lower	Upper
91	100		
92	59.7	48.2	72.4

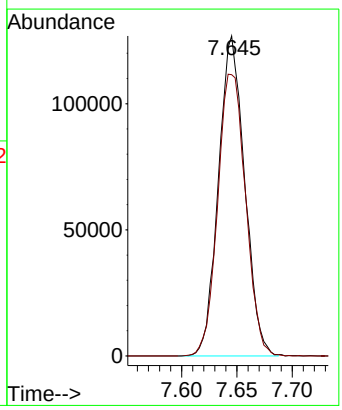


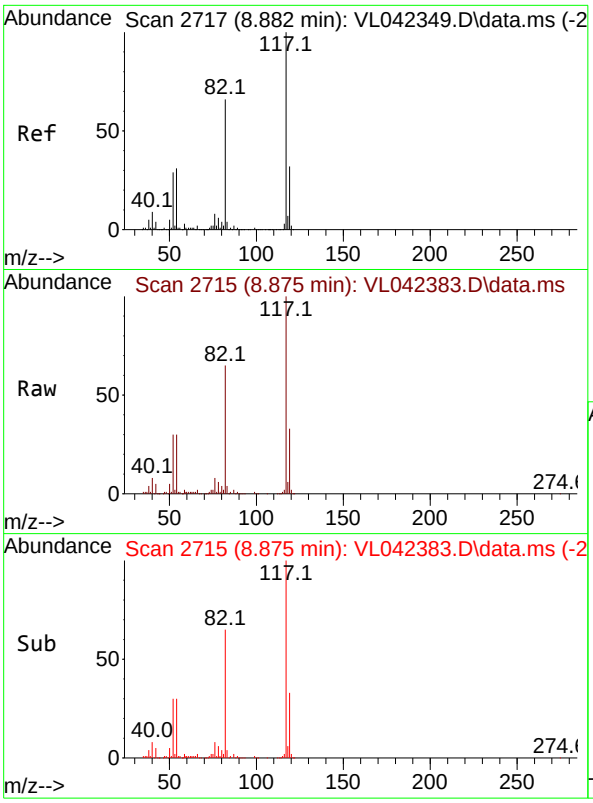


#54
1,2-Dibromoethane
Concen: 8.347 ppbv
RT: 7.645 min Scan# 2335
Delta R.T. -0.006 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Tgt Ion:107 Resp: 209152

Ion	Ratio	Lower	Upper
107	100		
109	87.9	78.2	117.4



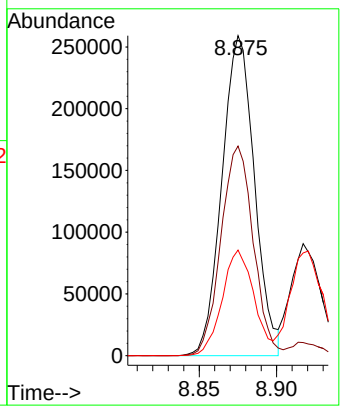


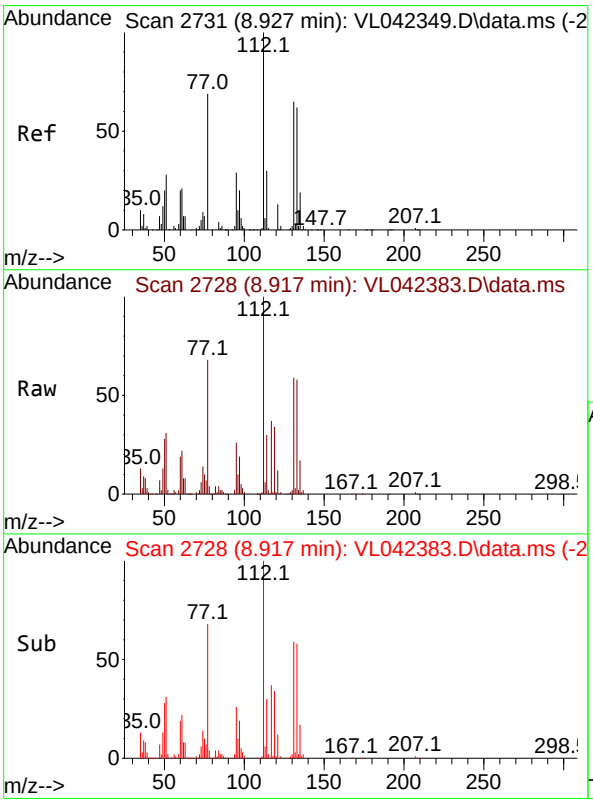
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 2
Delta R.T. -0.006 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion:117 Resp: 379215

Ion	Ratio	Lower	Upper
117	100		
82	69.1	57.8	86.6
119	31.8	25.2	37.8

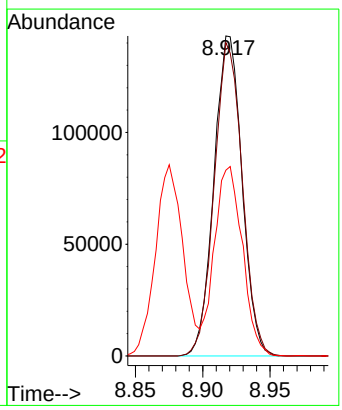


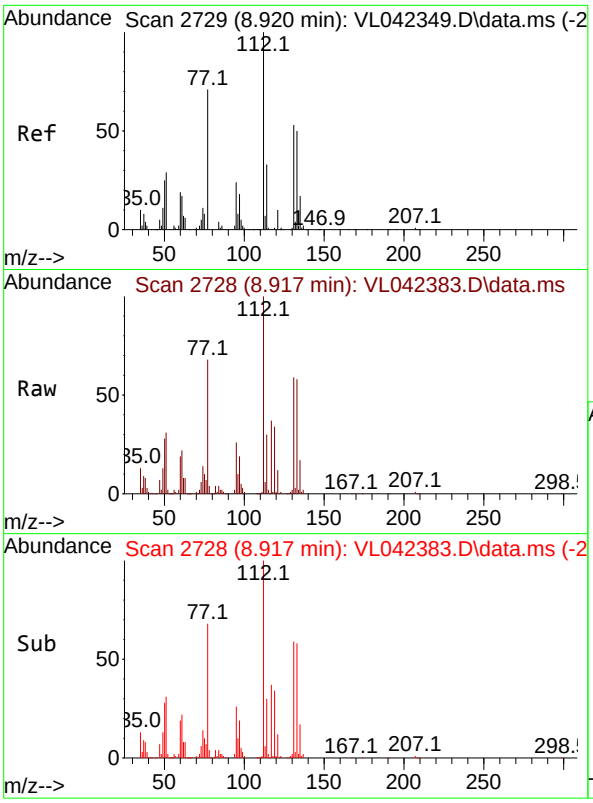


#56
1,1,1,2-Tetrachloroethane
Concen: 9.038 ppbv
RT: 8.917 min Scan# 2728
Delta R.T. -0.010 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Tgt Ion:131 Resp: 207437

Ion	Ratio	Lower	Upper
131	100		
133	98.0	78.3	117.5
119	59.4	48.7	73.1



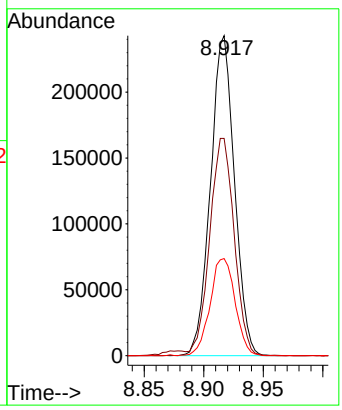


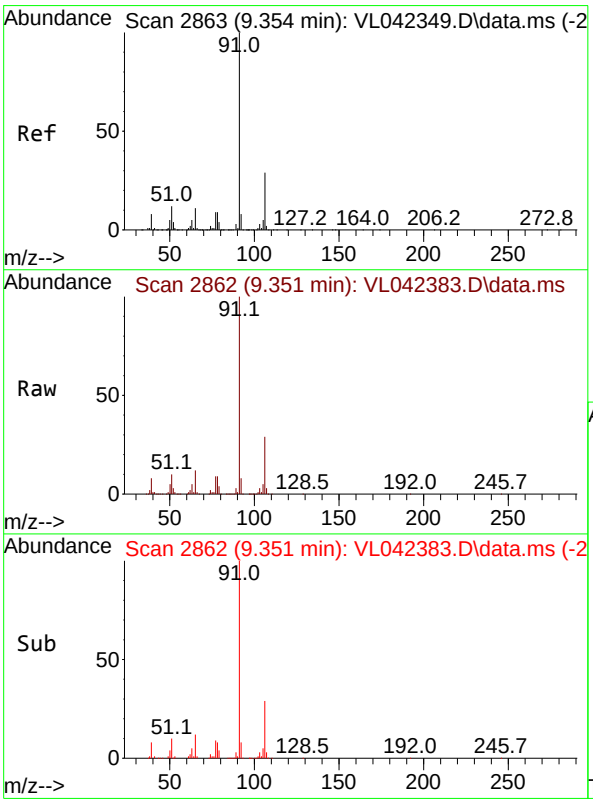
#57
Chlorobenzene
Concen: 8.619 ppbv
RT: 8.917 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion:112 Resp: 339932

Ion	Ratio	Lower	Upper
112	100		
77	67.8	57.8	86.6
114	30.3	29.3	35.9

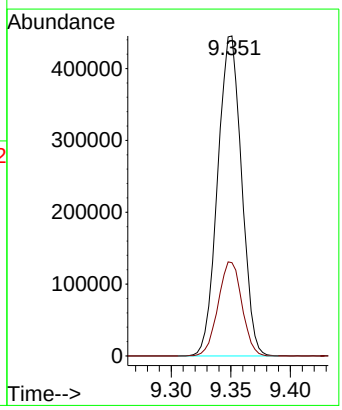


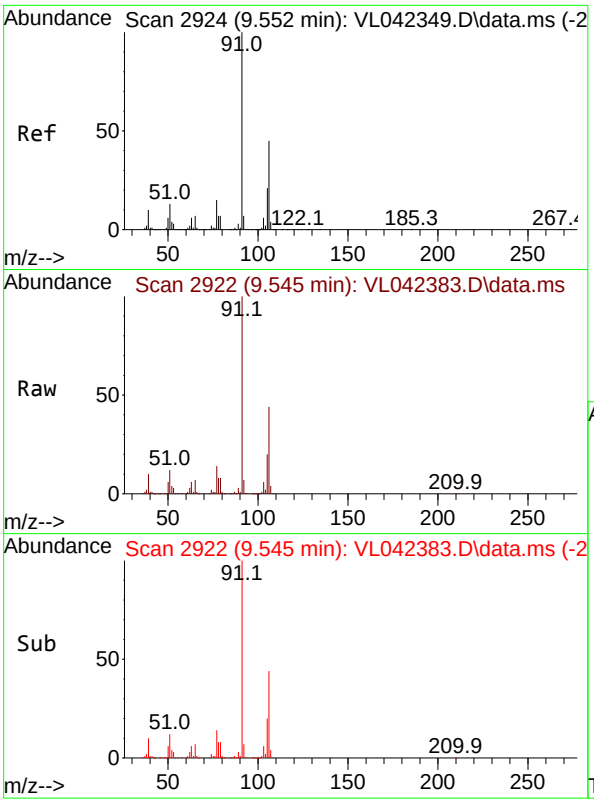


#58
Ethyl Benzene
Concen: 8.258 ppbv
RT: 9.351 min Scan# 2862
Delta R.T. -0.003 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Tgt Ion: 91 Resp: 620425

Ion	Ratio	Lower	Upper
91	100		
106	29.2	23.0	34.4



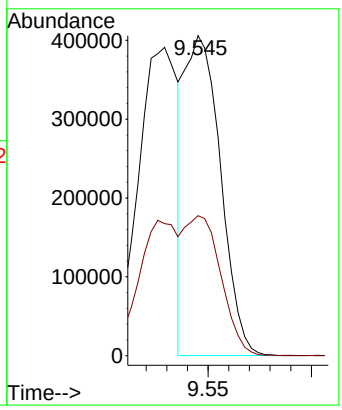


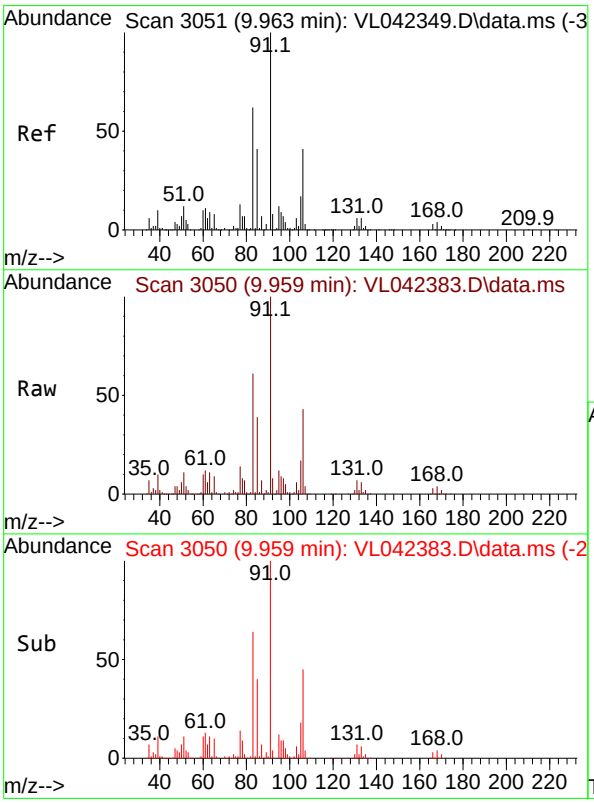
#59
m/p-Xylene
Concen: 8.134 ppbv
RT: 9.545 min Scan# 2
Delta R.T. -0.006 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 91 Resp: 492303

Ion	Ratio	Lower	Upper
91	100		
106	90.5	35.4	53.2#

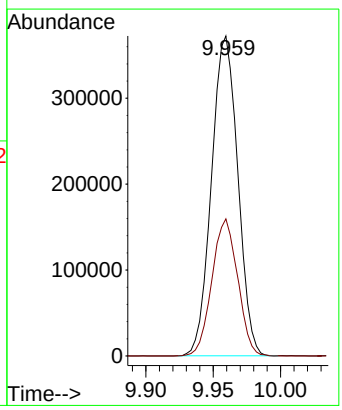


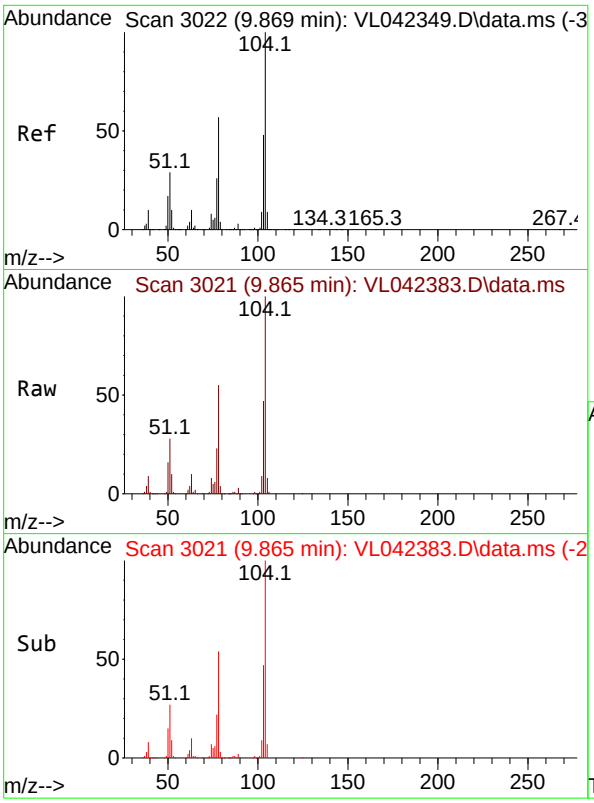


#60
o-Xylene
Concen: 8.290 ppbv
RT: 9.959 min Scan# 3050
Delta R.T. -0.003 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Tgt Ion: 91 Resp: 505258

Ion	Ratio	Lower	Upper
91	100		
106	42.0	21.1	63.4



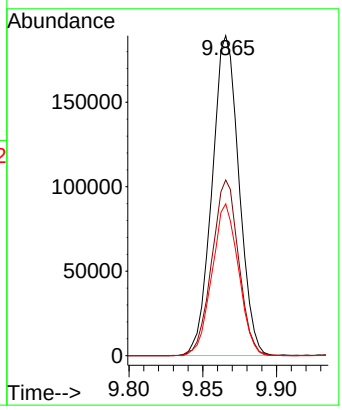


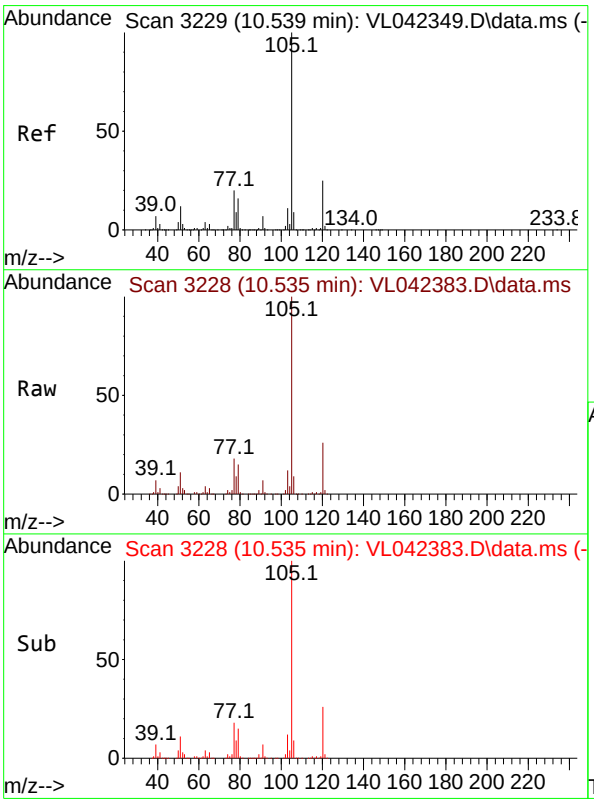
#61
Styrene
Concen: 8.253 ppbv
RT: 9.865 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion:104 Resp: 240108

Ion	Ratio	Lower	Upper
104	100		
78	54.7	44.6	66.8
103	46.9	37.4	56.0

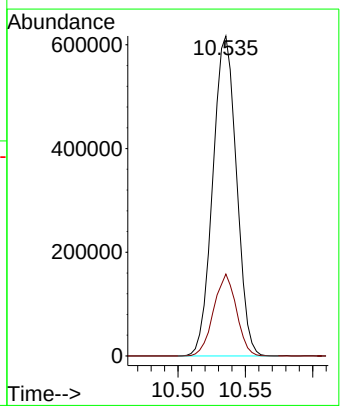


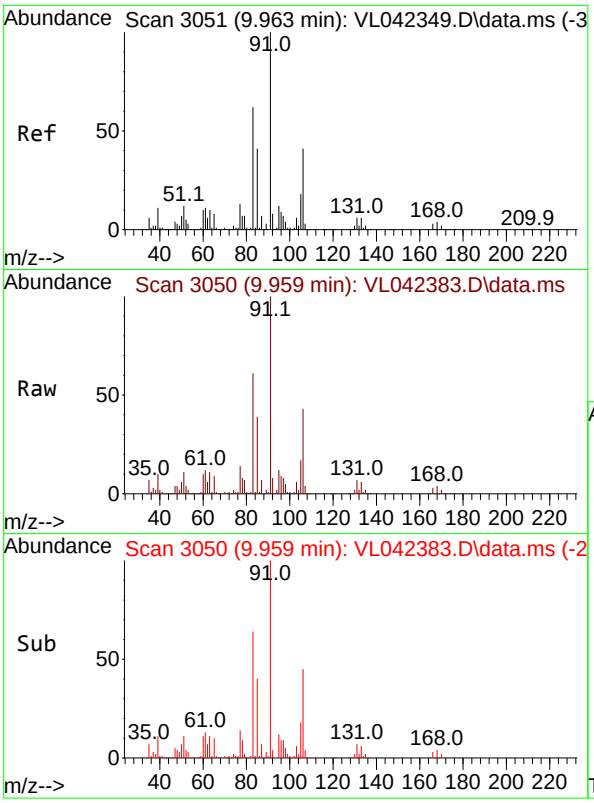


#62
Isopropylbenzene
Concen: 8.422 ppbv
RT: 10.535 min Scan# 3228
Delta R.T. -0.003 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Tgt Ion:105 Resp: 753628

Ion	Ratio	Lower	Upper
105	100		
120	24.6	19.8	29.8



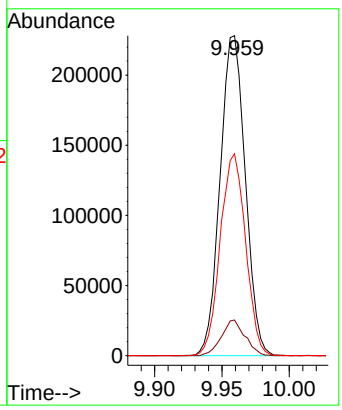


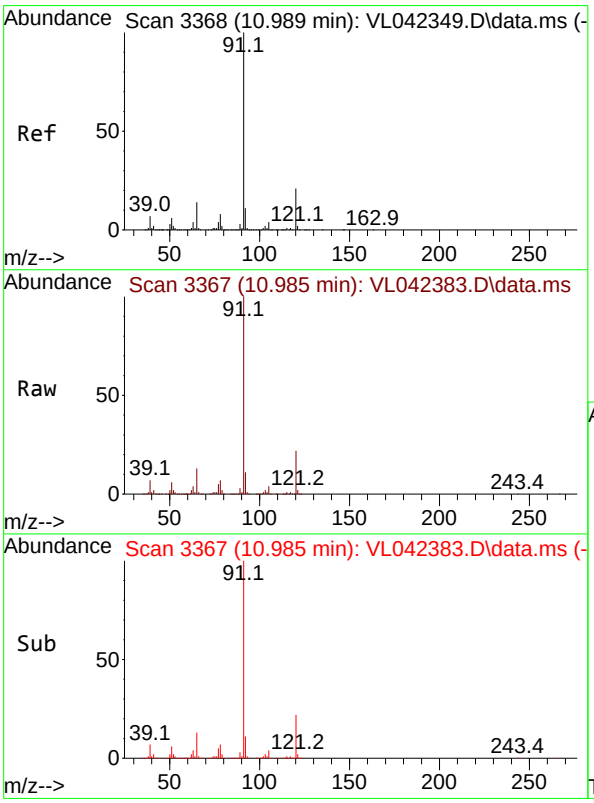
#63
1,1,2,2-Tetrachloroethane
Concen: 7.520 ppbv
RT: 9.959 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 83 Resp: 297020

Ion	Ratio	Lower	Upper
83	100		
131	10.5	4.5	13.7
85	63.5	32.4	97.0

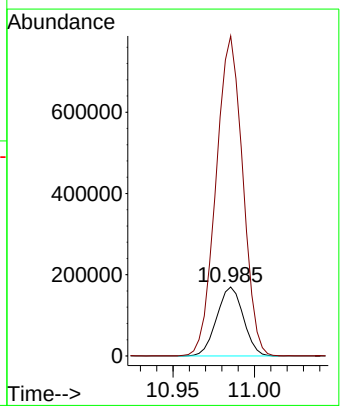


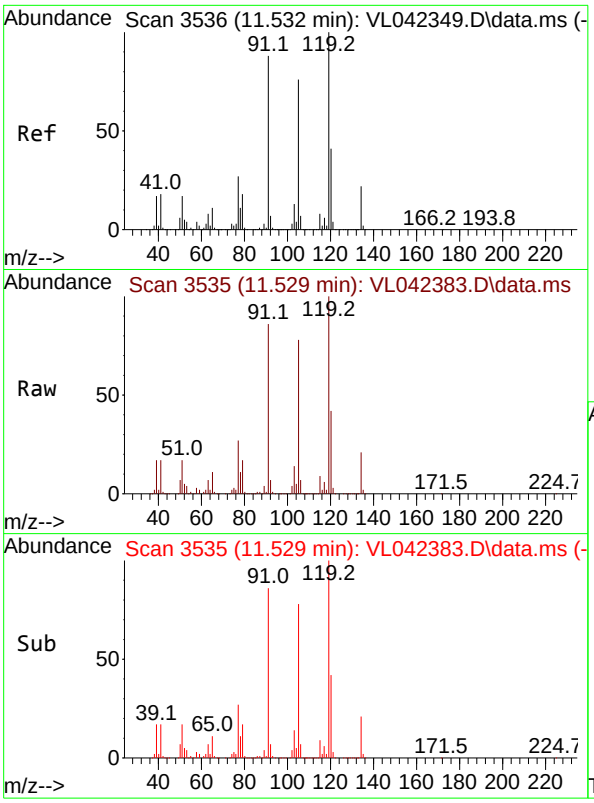


#64
n-propylbenzene
Concen: 8.534 ppbv
RT: 10.985 min Scan# 3367
Delta R.T. -0.003 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Tgt Ion:120 Resp: 191951

Ion	Ratio	Lower	Upper
120	100		
91	467.4	392.4	588.6



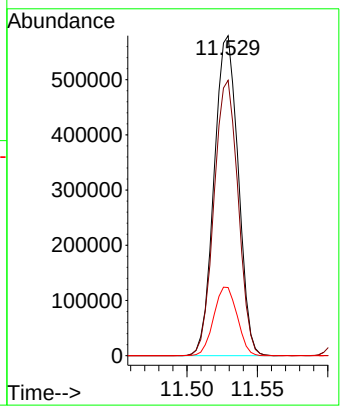


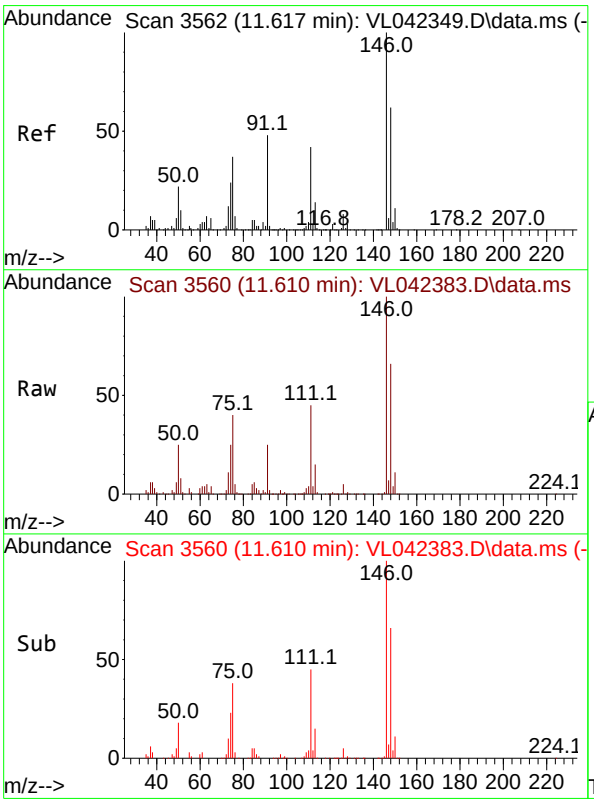
#65
tert-Butylbenzene
Concen: 8.367 ppbv
RT: 11.529 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion:119 Resp: 688133

Ion	Ratio	Lower	Upper
119	100		
91	86.4	74.6	111.8
134	21.0	18.8	28.2

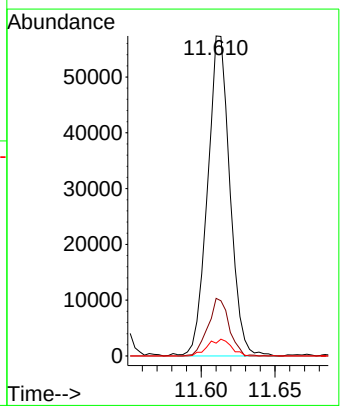


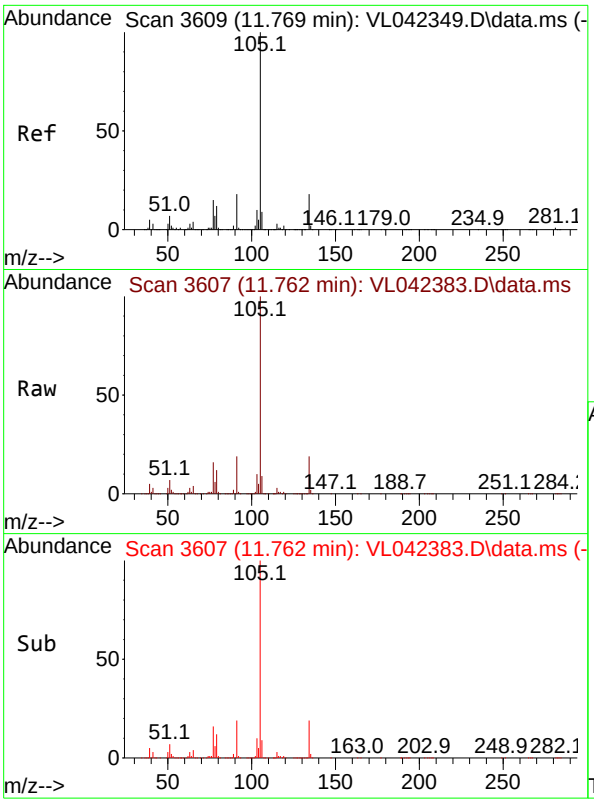


#66
Benzyl Chloride
Concen: 6.664 ppbv
RT: 11.610 min Scan# 3560
Delta R.T. -0.006 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Tgt Ion: 91 Resp: 60227

Ion	Ratio	Lower	Upper
91	100		
126	16.9	11.8	17.6
128	5.5	4.5	6.7



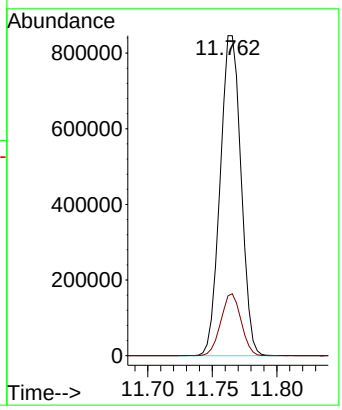


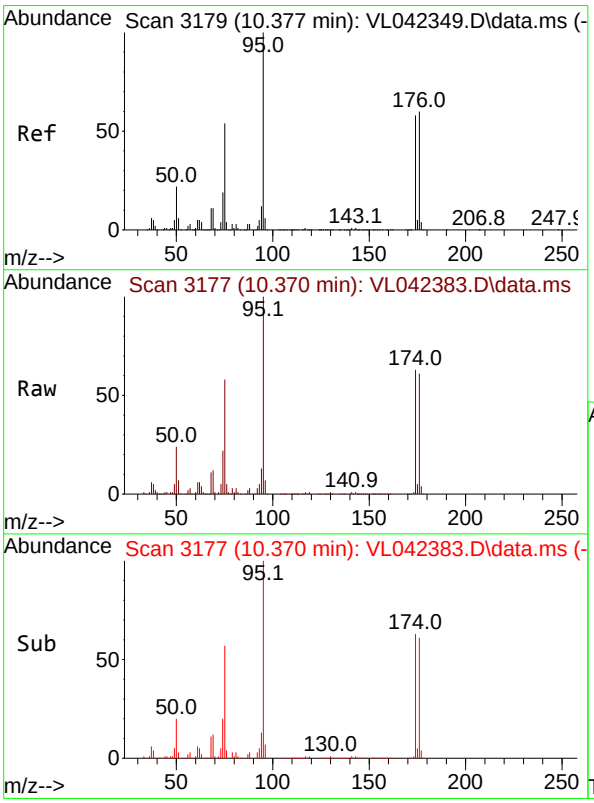
#67
sec-Butylbenzene
Concen: 8.295 ppbv
RT: 11.762 min Scan# 3
Delta R.T. -0.006 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion:105 Resp: 948966

Ion	Ratio	Lower	Upper
105	100		
134	18.9	14.6	21.8

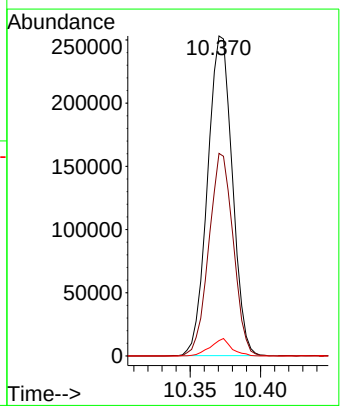


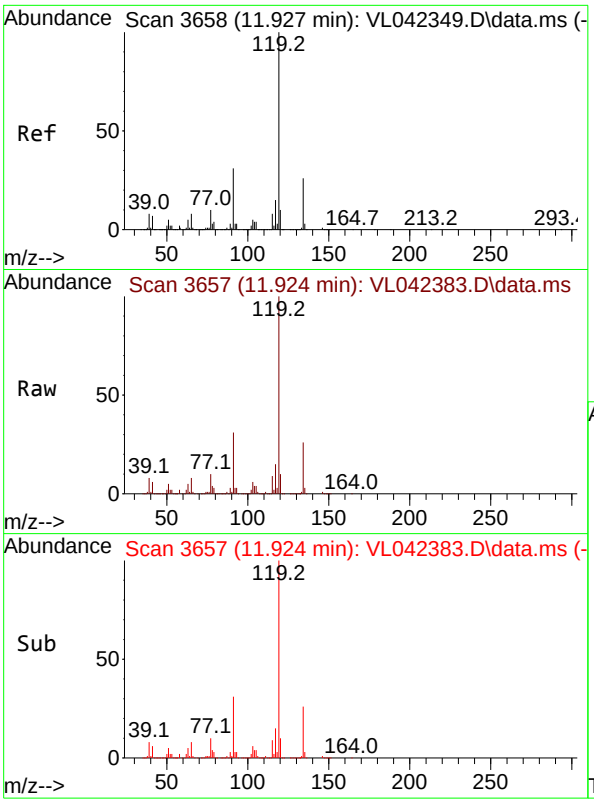


#68
1-Bromo-4-Fluorobenzene
Concen: 9.924 ppbv
RT: 10.370 min Scan# 3177
Delta R.T. -0.006 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Tgt Ion: 95 Resp: 309235

Ion	Ratio	Lower	Upper
95	100		
174	62.5	48.5	72.7
175	4.6	3.7	5.5



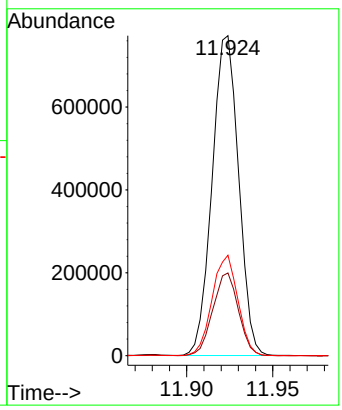


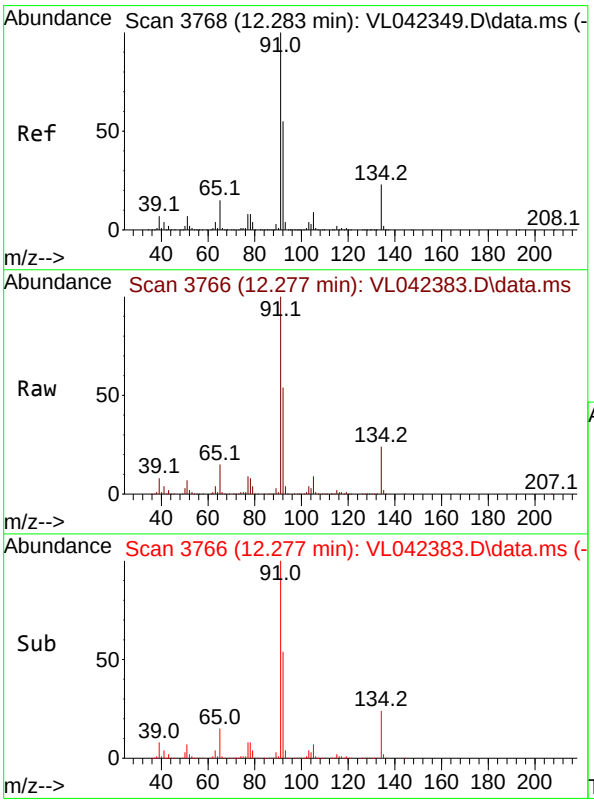
#69
p-Isopropyltoluene
Concen: 8.315 ppbv
RT: 11.924 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion:119 Resp: 826443

Ion	Ratio	Lower	Upper
119	100		
134	25.1	20.0	30.0
91	30.8	24.4	36.6

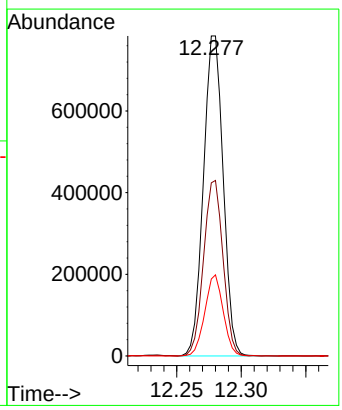


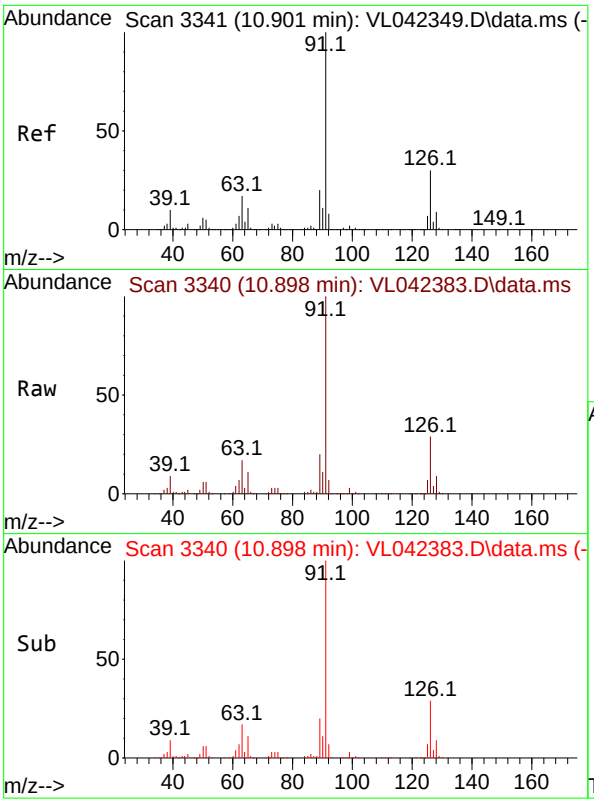


#70
n-Butylbenzene
Concen: 8.039 ppbv
RT: 12.277 min Scan# 3766
Delta R.T. -0.006 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Tgt Ion: 91 Resp: 832220

Ion	Ratio	Lower	Upper
91	100		
92	54.3	44.2	66.4
134	23.6	18.2	27.4



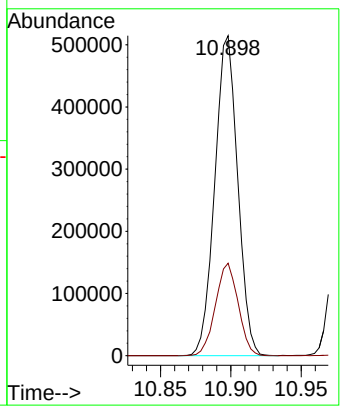


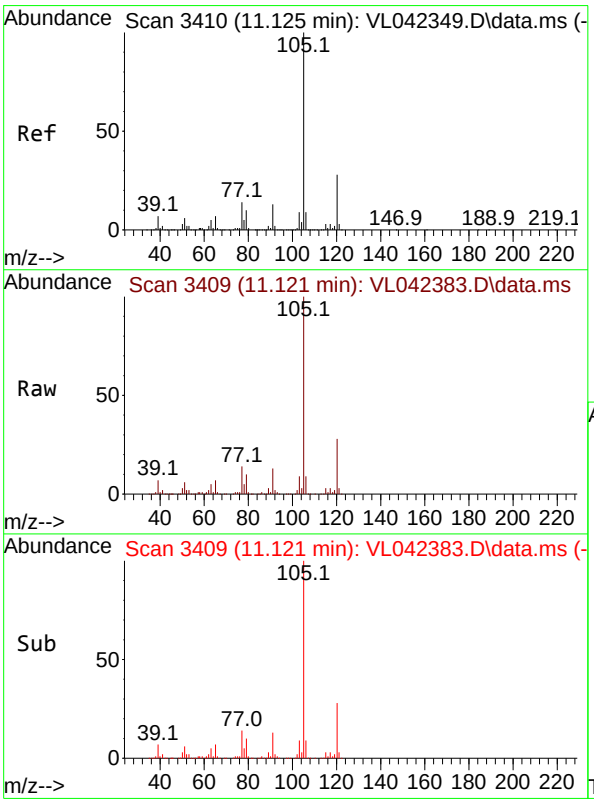
#71
2-Chlorotoluene
Concen: 8.306 ppbv
RT: 10.898 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 91 Resp: 582951

Ion	Ratio	Lower	Upper
91	100		
126	28.6	11.4	45.4

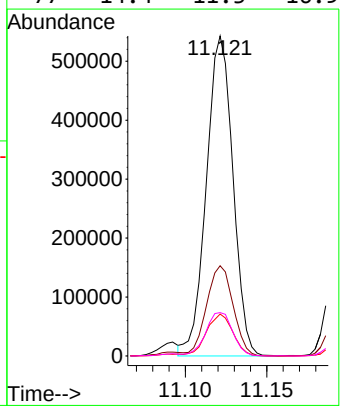


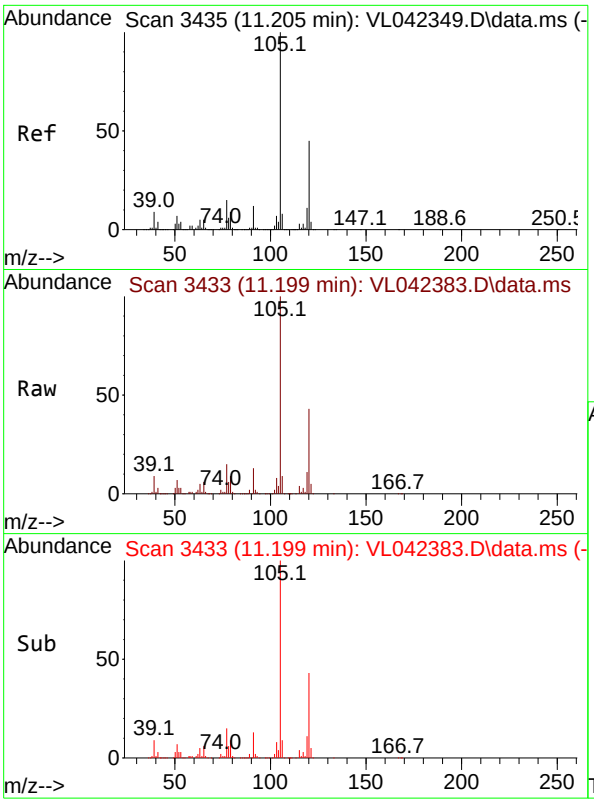


#72
4-Ethyltoluene
Concen: 8.256 ppbv
RT: 11.121 min Scan# 3409
Delta R.T. -0.003 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Tgt Ion:105 Resp: 615202

Ion	Ratio	Lower	Upper
105	100		
120	29.3	23.2	34.8
91	13.6	10.4	15.6
77	14.4	11.3	16.9



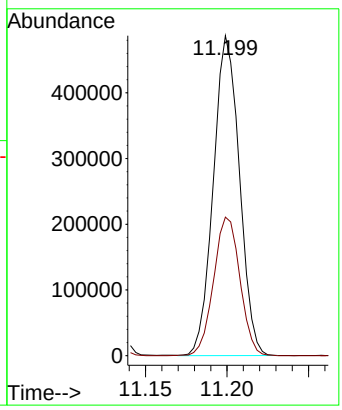


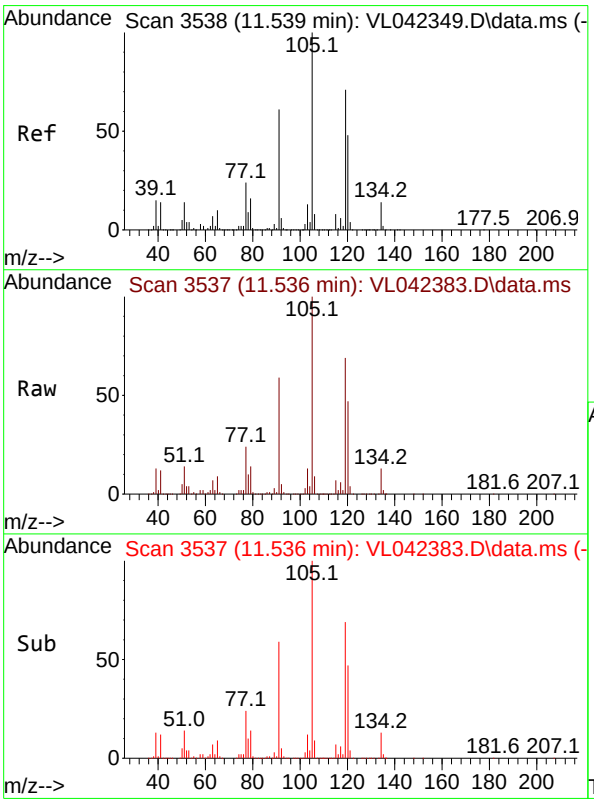
#73
1,3,5-Trimethylbenzene
Concen: 8.220 ppbv
RT: 11.199 min Scan# 34
Delta R.T. -0.006 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion:105 Resp: 540783

Ion	Ratio	Lower	Upper
105	100		
120	43.3	35.6	53.4

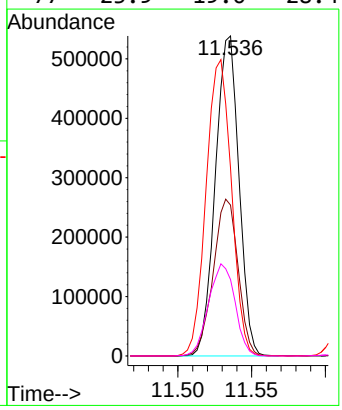


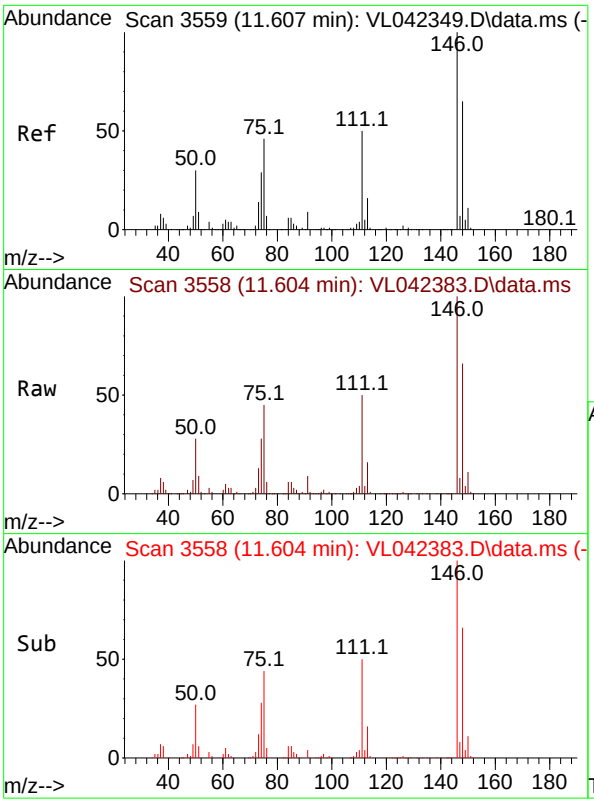


#74
1,2,4-Trimethylbenzene
Concen: 7.794 ppbv
RT: 11.536 min Scan# 3537
Delta R.T. -0.003 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Tgt Ion:105 Resp: 598825

Ion	Ratio	Lower	Upper
105	100		
120	47.1	38.1	57.1
91	58.6	48.8	73.2
77	23.9	19.0	28.4



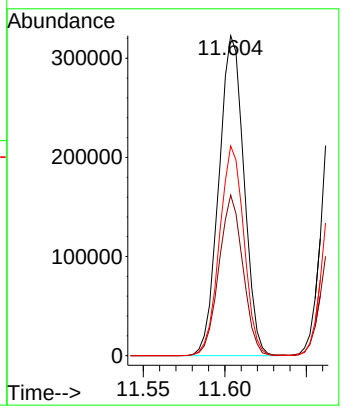


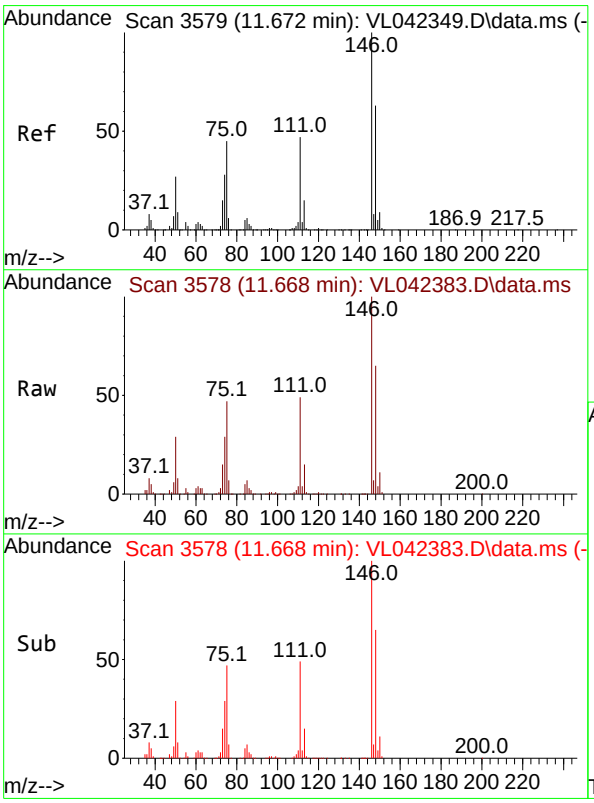
#75
1,3-Dichlorobenzene
Concen: 8.644 ppbv
RT: 11.604 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion:146 Resp: 345226

Ion	Ratio	Lower	Upper
146	100		
111	48.0	24.3	72.8
148	63.9	31.6	94.8

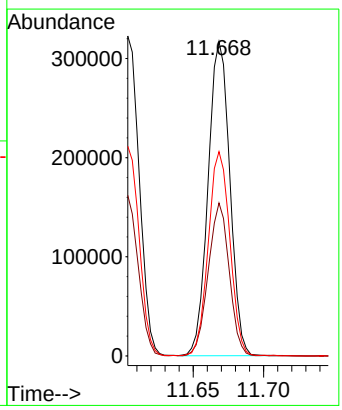


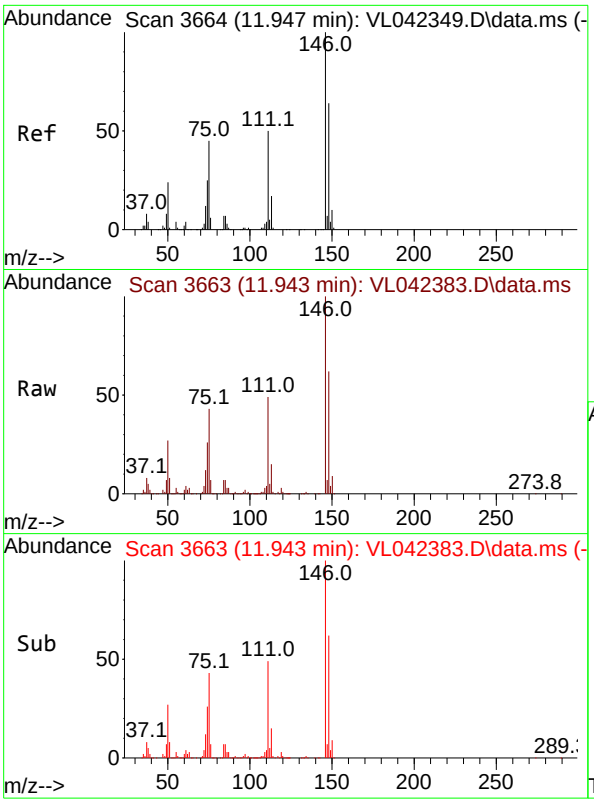


#76
1,4-Dichlorobenzene
Concen: 8.477 ppbv
RT: 11.668 min Scan# 3578
Delta R.T. -0.003 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Tgt Ion:146 Resp: 340293

Ion	Ratio	Lower	Upper
146	100		
111	47.1	24.2	72.6
148	64.7	32.1	96.5



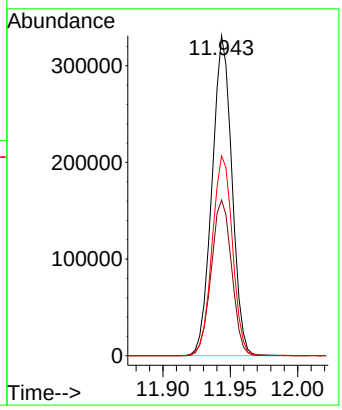


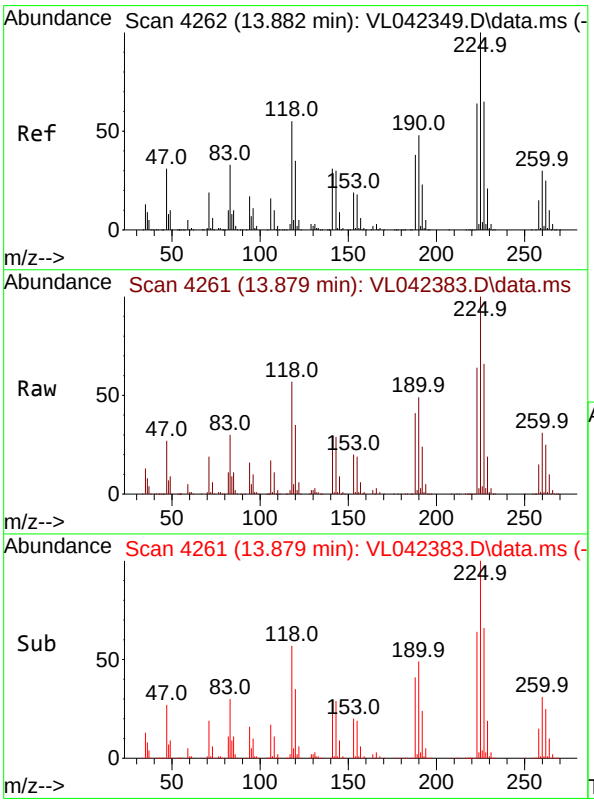
#77
1,2-Dichlorobenzene
Concen: 8.751 ppbv
RT: 11.943 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion:146 Resp: 339821

Ion	Ratio	Lower	Upper
146	100		
111	50.0	25.3	75.9
148	63.7	31.5	94.5

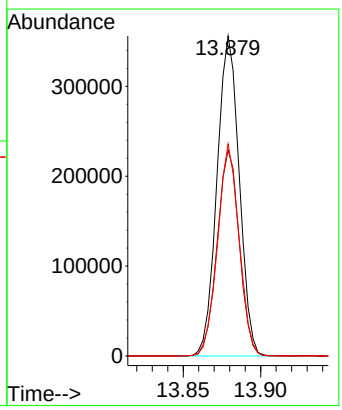


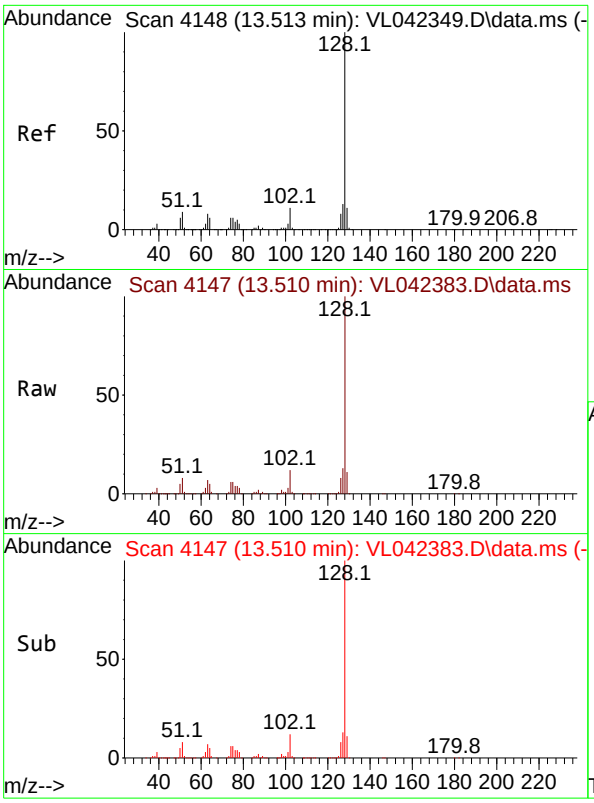


#78
Hexachloro-1,3-Butadiene
Concen: 9.061 ppbv
RT: 13.879 min Scan# 4261
Delta R.T. -0.003 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Tgt Ion:225 Resp: 355324

Ion	Ratio	Lower	Upper
225	100		
223	63.8	50.3	75.5
227	63.9	51.5	77.3



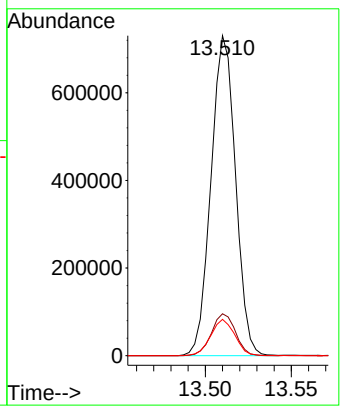


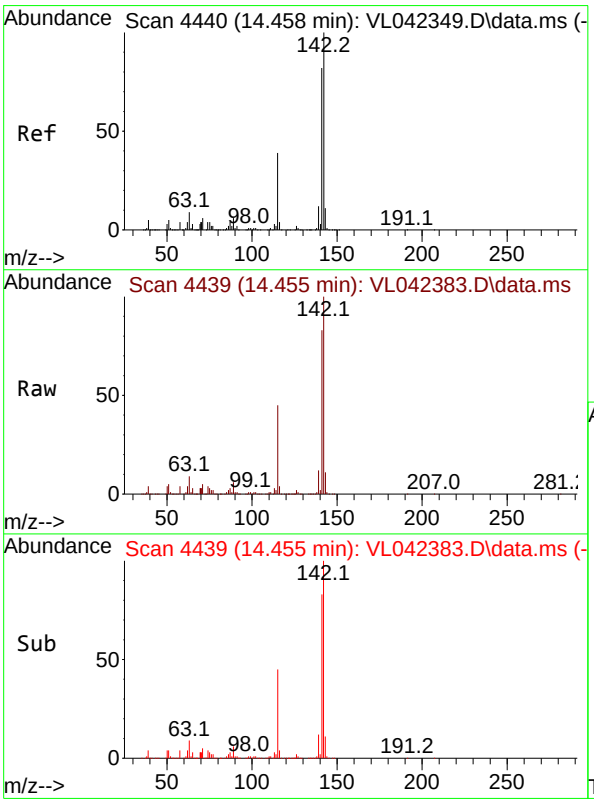
#79
Naphthalene
Concen: 7.884 ppbv
RT: 13.510 min Scan# 4
Delta R.T. -0.003 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion:128 Resp: 724361

Ion	Ratio	Lower	Upper
128	100		
127	13.1	10.6	15.8
129	11.3	8.6	12.8

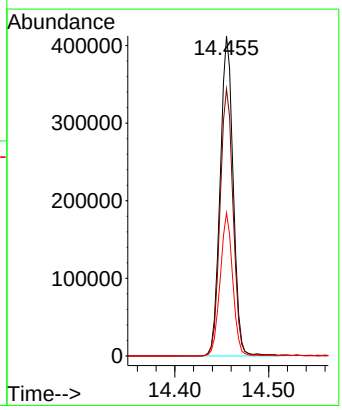


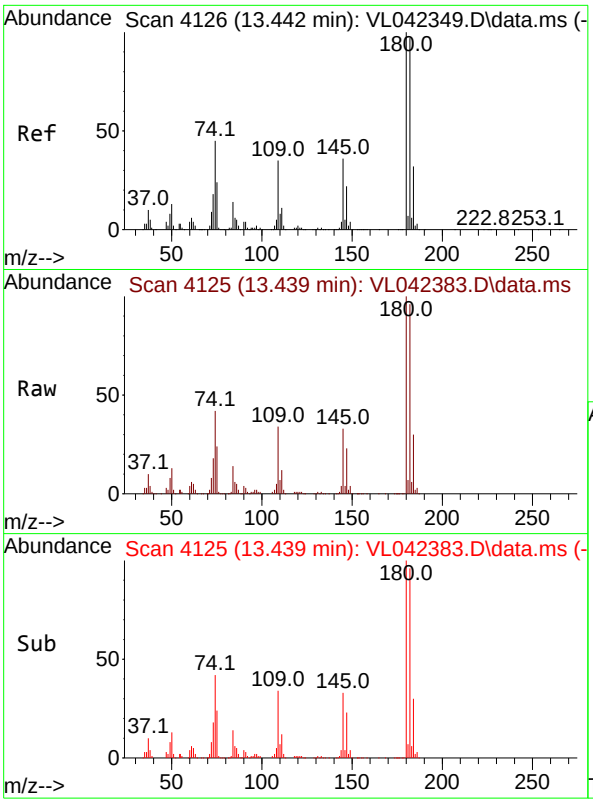


#80
Naphthalene,2-methyl-
Concen: 7.566 ppbv
RT: 14.455 min Scan# 4439
Delta R.T. -0.003 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Tgt Ion:142 Resp: 396207

Ion	Ratio	Lower	Upper
142	100		
141	84.8	66.8	100.2
115	43.4	33.4	50.2



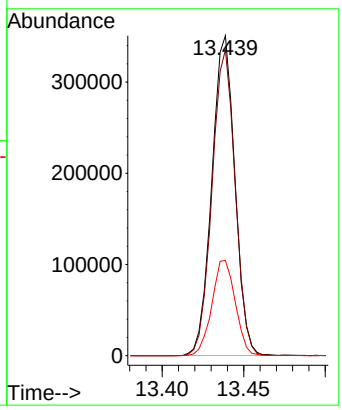


#81
1,2,4-Trichlorobenzene
Concen: 8.737 ppbv
RT: 13.439 min Scan# 4
Delta R.T. -0.003 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion:180 Resp: 344709

Ion	Ratio	Lower	Upper
180	100		
182	95.8	76.8	115.2
184	30.4	24.6	36.8



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041825\
Data File : VL042385.D
Acq On : 18 Apr 2025 11:38
Operator : SY/MD
Sample : VL0418ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0418ABS01

Quant Time: Apr 18 22:56:38 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	2.781	49	137596	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	421834	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	371546	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.371	95	306062	10.024	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 100.200%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.496	85	226018	9.297	ppbv	97
3) Chlorodifluoromethane	1.473	51	188655	8.149	ppbv	97
4) Chloromethane	1.531	50	83080	8.636	ppbv	98
5) Vinyl Chloride	1.577	62	79548	7.596	ppbv	97
6) Bromomethane	1.664	94	38033	8.454	ppbv	90
7) Chloroethane	1.703	64	31293	8.263	ppbv	90
8) Dichlorotetrafluoroethane	1.551	85	190713	9.137	ppbv	98
9) Propene	1.483	41	72956	6.920	ppbv	99
10) Heptane	4.972	43	201993	6.820	ppbv	98
11) Trichlorofluoromethane	1.874	101	219477	9.494	ppbv	100
12) 1,1,2-Trichlorotrifluo...	2.137	101	167879	8.881	ppbv	97
13) Ethanol	1.719	45	3800	2.268	ppbv	96
14) Bromoethene	1.777	108	65024	9.126	ppbv	99
15) Acetone	1.832	43	164938	7.322	ppbv	98
16) 1,3-Butadiene	1.606	39	81350	7.551	ppbv	94
17) tert-Butyl alcohol	2.036	59	228926	8.201	ppbv	99
18) 1,1-Dichloroethene	2.030	96	76914	8.710	ppbv	98
19) Isopropyl Alcohol	1.884	45	103131	8.242	ppbv	99
20) Methylene Chloride	2.059	84	64925	7.360	ppbv	93
21) Allyl Chloride	2.091	41	123726	7.955	ppbv	98
22) trans-1,2-Dichloroethene	2.337	96	87708	8.723	ppbv	92
23) Vinyl Acetate	2.457	43	60750	6.663	ppbv #	96
24) 1,1-Dichloroethane	2.405	63	169635	8.882	ppbv	98
25) Ethyl Acetate	2.832	43	426071	7.672	ppbv	100
26) Hexane	2.823	57	170131	7.570	ppbv	97
27) Carbon Disulfide	2.146	76	208766	8.676	ppbv	98
28) Methyl tert-Butyl Ether	2.434	73	122891	8.345	ppbv	93
29) Chloroform	2.845	83	290070	9.131	ppbv	99
30) Cyclohexane	3.849	84	147689	8.129	ppbv	96
31) cis-1,2-Dichloroethene	2.716	61	184087	8.615	ppbv	97
32) 1,1,1-Trichloroethane	3.363	97	317651	8.882	ppbv	99
34) 2-Butanone	2.554	43	240467	7.208	ppbv	98
35) Carbon Tetrachloride	3.755	117	326652	8.556	ppbv	95
36) Benzene	3.651	78	349571	7.683	ppbv	96
37) 1,2-Dichloroethane	3.214	62	236222	8.650	ppbv	97
38) Trichloroethene	4.538	130	150355	7.561	ppbv	97
39) 1,2-Dichloropropane	4.305	63	122577	7.229	ppbv	94
40) 1,4-Dioxane	4.577	88	63539	6.819	ppbv #	91
41) Tetrahydrofuran	3.049	42	133932	6.885	ppbv	100
42) Bromodichloromethane	4.480	83	324378	8.535	ppbv	98
43) Methyl Methacrylate	4.875	69	142005	6.925	ppbv	97
44) 2,2,4-Trimethylpentane	4.635	57	567587	7.223	ppbv	97
45) t-1,3-Dichloropropene	6.406	75	159210	7.601	ppbv	93

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041825\
Data File : VL042385.D
Acq On : 18 Apr 2025 11:38
Operator : SY/MD
Sample : VL0418ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0418ABS01

Quant Time: Apr 18 22:56:38 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	5.590	75	192875	7.523	ppbv		90
47) 1,1,2-Trichloroethane	6.574	97	141009	8.163	ppbv		97
48) Dibromochloromethane	7.380	129	267219	8.756	ppbv		99
49) Bromoform	9.477	173	235451	8.823	ppbv		99
50) 4-Methyl-2-Pentanone	5.742	43	357049	6.440	ppbv		100
51) 2-Hexanone	7.432	43	284839	5.729	ppbv		98
52) Tetrachloroethene	8.218	164	134768	7.663	ppbv		97
53) Toluene	6.924	91	416429	7.627	ppbv		100
54) 1,2-Dibromoethane	7.645	107	202809	8.204	ppbv		95
56) 1,1,1,2-Tetrachloroethane	8.917	131	204475	9.093	ppbv		97
57) Chlorobenzene	8.917	112	326071	8.438	ppbv		98
58) Ethyl Benzene	9.351	91	597552	8.117	ppbv		97
59) m/p-Xylene	9.545	91	477953	8.060	ppbv	#	29
60) o-Xylene	9.960	91	489890	8.203	ppbv		98
61) Styrene	9.866	104	232960	8.173	ppbv		99
62) Isopropylbenzene	10.536	105	734342	8.376	ppbv		99
63) 1,1,2,2-Tetrachloroethane	9.960	83	282429	7.298	ppbv		99
64) n-propylbenzene	10.986	120	184746	8.383	ppbv		96
65) tert-Butylbenzene	11.529	119	665320	8.256	ppbv		92
66) Benzyl Chloride	11.610	91	55103	6.223	ppbv		94
67) sec-Butylbenzene	11.766	105	911164	8.129	ppbv		98
69) p-Isopropyltoluene	11.921	119	799331	8.209	ppbv		99
70) n-Butylbenzene	12.277	91	817538	8.061	ppbv		99
71) 2-Chlorotoluene	10.895	91	562487	8.180	ppbv		98
72) 4-Ethyltoluene	11.121	105	602711	8.256	ppbv		99
73) 1,3,5-Trimethylbenzene	11.199	105	524369	8.135	ppbv		100
74) 1,2,4-Trimethylbenzene	11.533	105	583351	7.749	ppbv	#	91
75) 1,3-Dichlorobenzene	11.604	146	335533	8.575	ppbv		99
76) 1,4-Dichlorobenzene	11.668	146	335101	8.520	ppbv		99
77) 1,2-Dichlorobenzene	11.944	146	319466	8.396	ppbv		99
78) Hexachloro-1,3-Butadiene	13.879	225	329813	8.584	ppbv		99
79) Naphthalene	13.510	128	691058	7.676	ppbv		99
80) Naphthalene,2-methyl-	14.455	142	380016	7.407	ppbv		99
81) 1,2,4-Trichlorobenzene	13.436	180	325017	8.408	ppbv		100

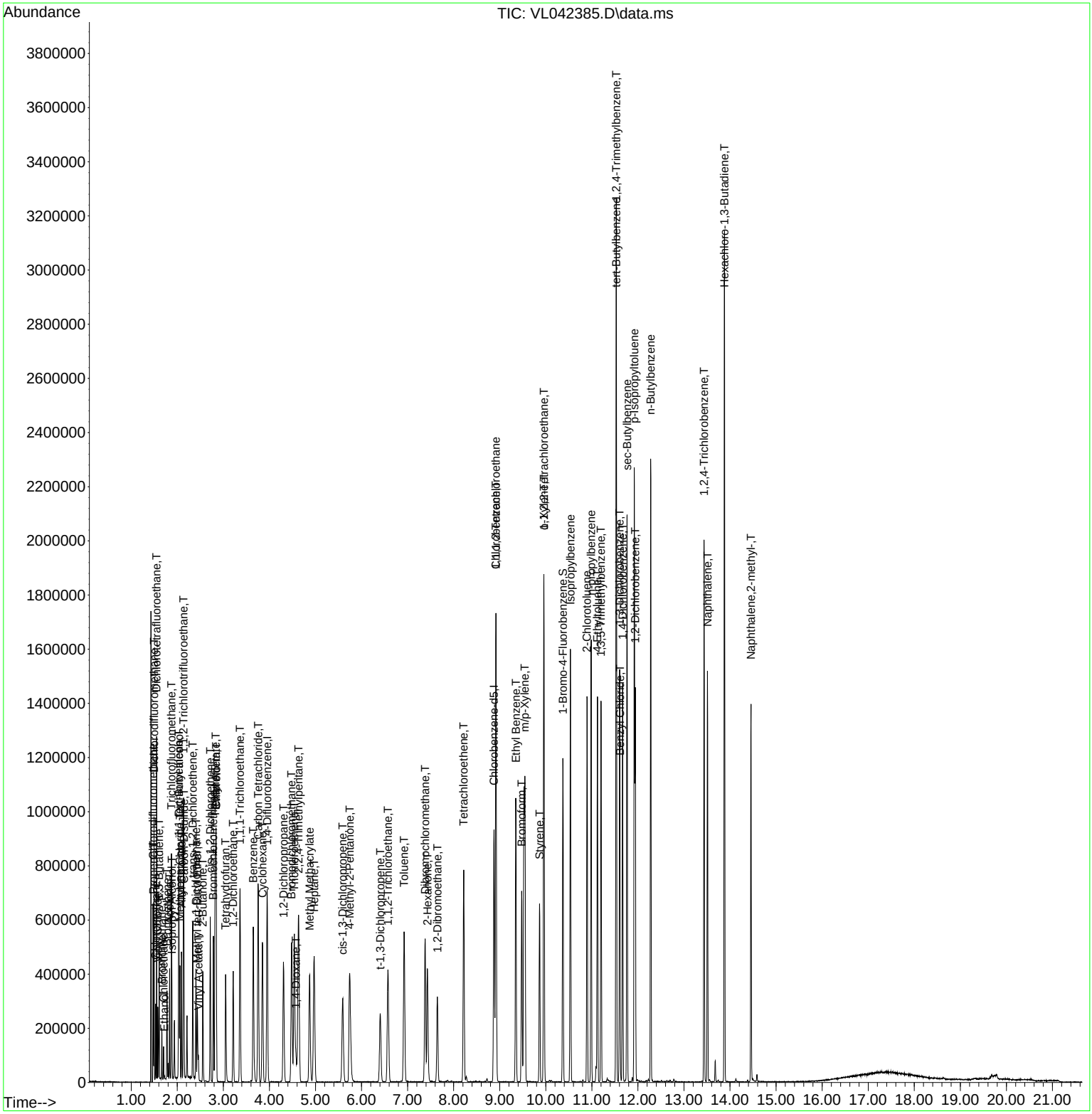
(#) = qualifier out of range (m) = manual integration (+) = signals summed

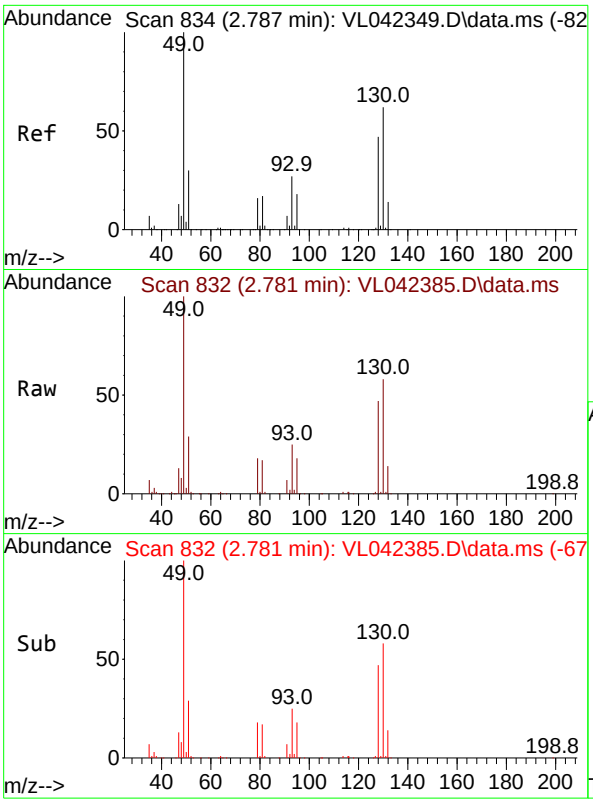
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041825\
Data File : VL042385.D
Acq On : 18 Apr 2025 11:38
Operator : SY/MD
Sample : VL0418ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0418ABS01

Quant Time: Apr 18 22:56:38 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



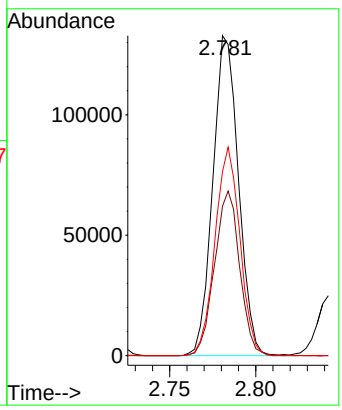


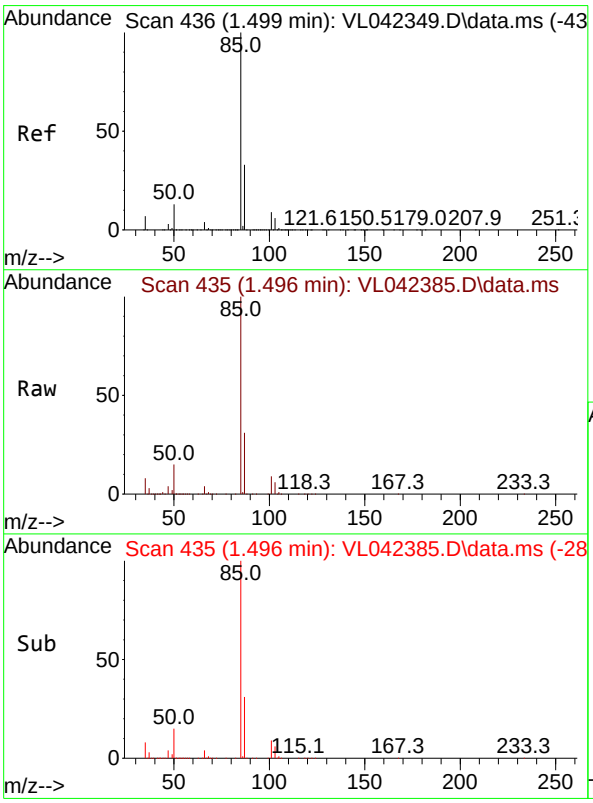
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.781 min Scan# 8
Delta R.T. -0.006 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Instrument :
MSVOA_L
ClientSampleId :
VL0418ABS01

Tgt Ion: 49 Resp: 137596

Ion	Ratio	Lower	Upper
49	100		
128	50.6	22.8	68.4
130	63.3	29.3	88.0

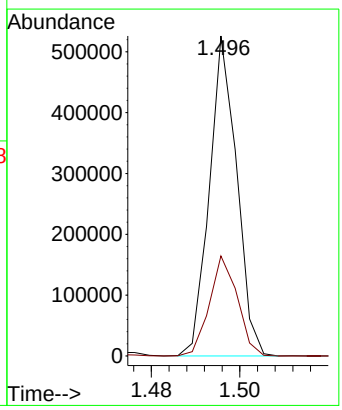


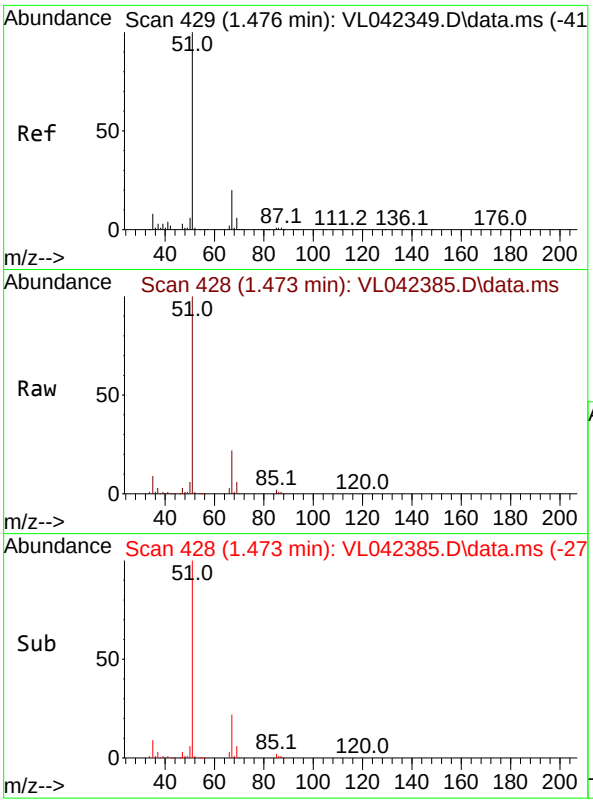


#2
Dichlorodifluoromethane
Concen: 9.297 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.003 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Tgt Ion: 85 Resp: 226018

Ion	Ratio	Lower	Upper
85	100		
87	31.3	26.6	39.8



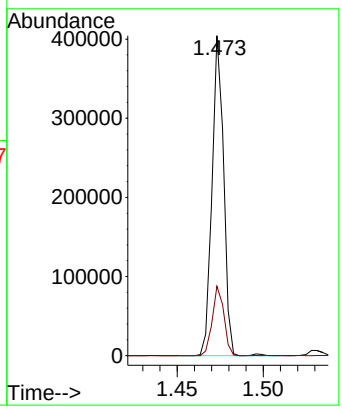


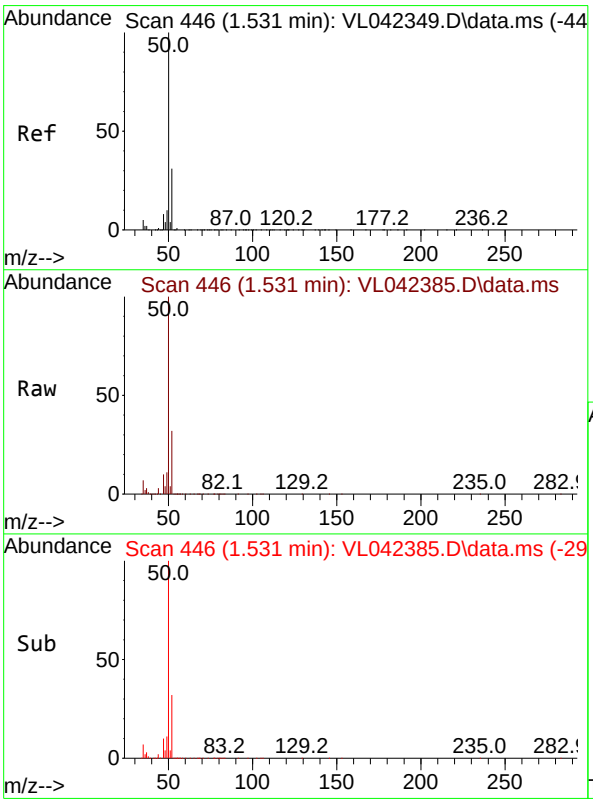
#3
Chlorodifluoromethane
Concen: 8.149 ppbv
RT: 1.473 min Scan# 4
Delta R.T. -0.003 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Instrument :
MSVOA_L
ClientSampleId :
VL0418ABS01

Tgt Ion: 51 Resp: 188655

Ion	Ratio	Lower	Upper
51	100		
67	21.8	16.2	24.4

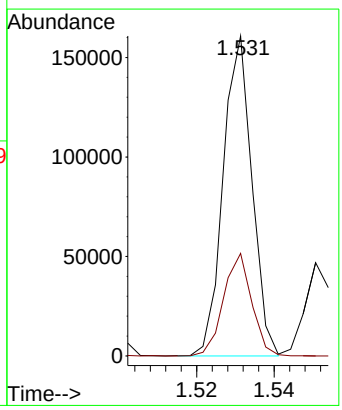


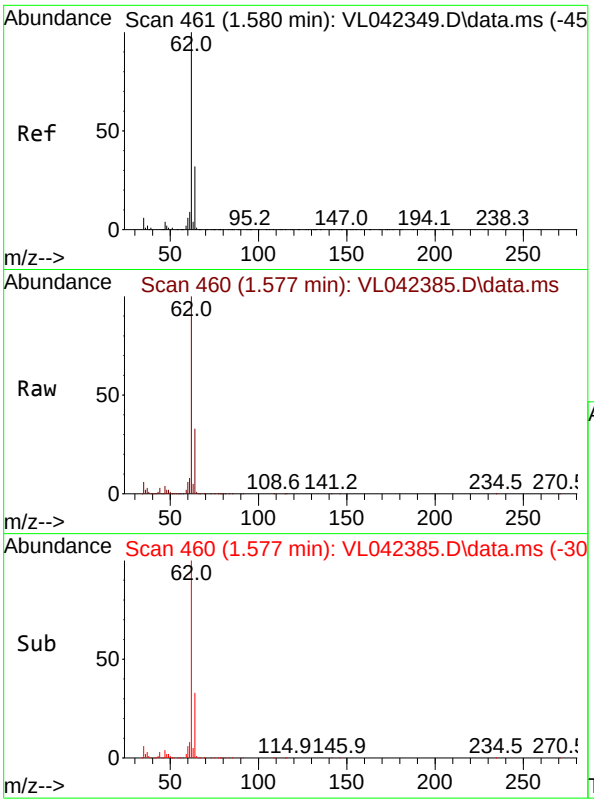


#4
Chloromethane
Concen: 8.636 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Tgt Ion: 50 Resp: 83080

Ion	Ratio	Lower	Upper
50	100		
52	32.1	24.7	37.1



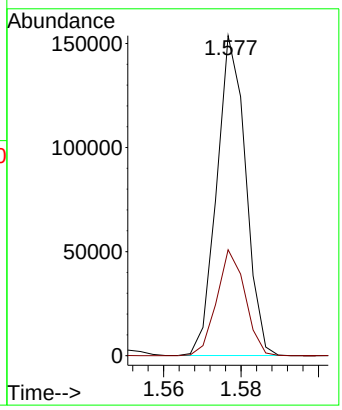


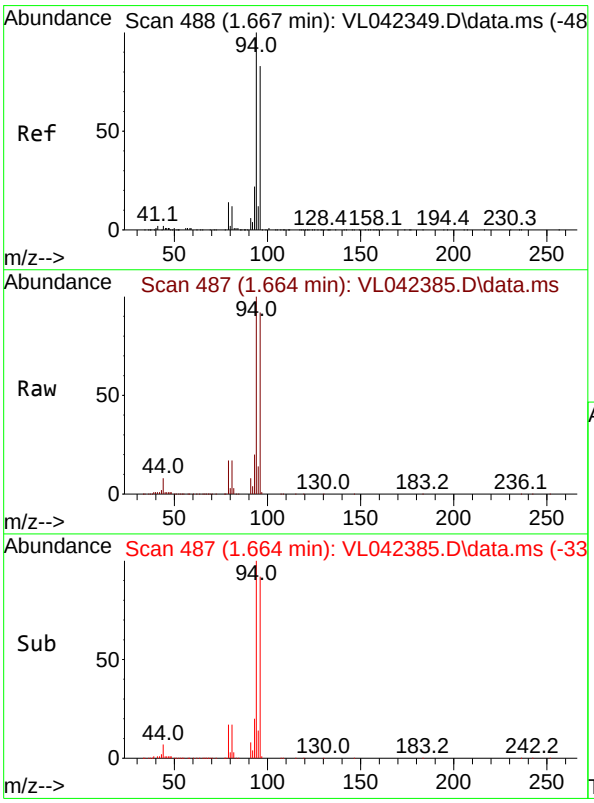
#5
Vinyl Chloride
Concen: 7.596 ppbv
RT: 1.577 min Scan# 4
Delta R.T. -0.003 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Instrument :
MSVOA_L
ClientSampleId :
VL0418ABS01

Tgt Ion: 62 Resp: 79548

Ion	Ratio	Lower	Upper
62	100		
64	33.1	25.4	38.0

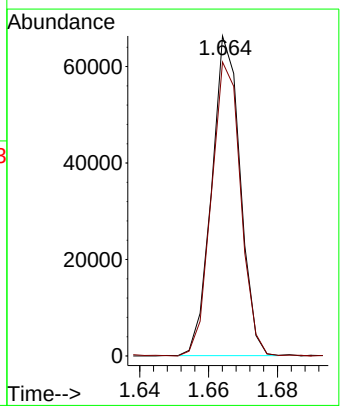


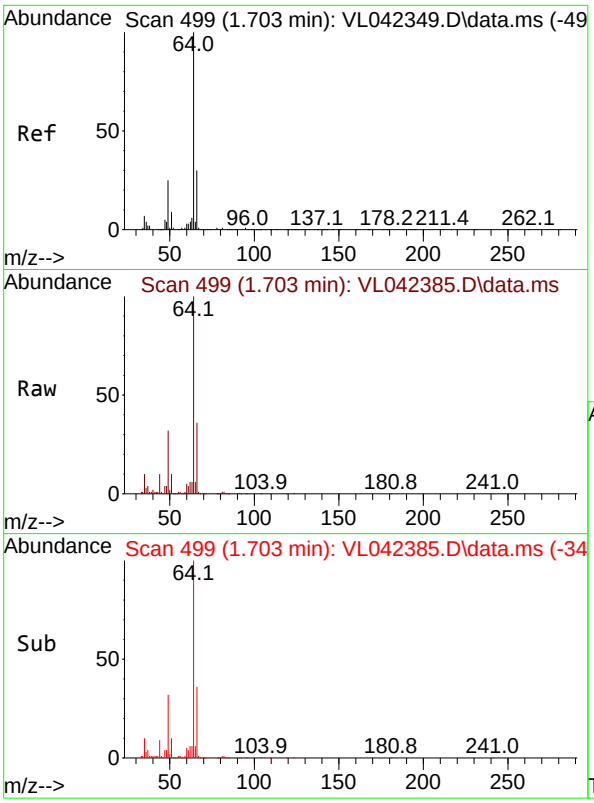


#6
Bromomethane
Concen: 8.454 ppbv
RT: 1.664 min Scan# 487
Delta R.T. -0.003 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Tgt Ion: 94 Resp: 38033

Ion	Ratio	Lower	Upper
94	100		
96	91.9	66.2	99.2



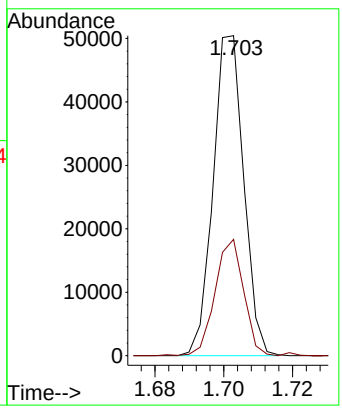


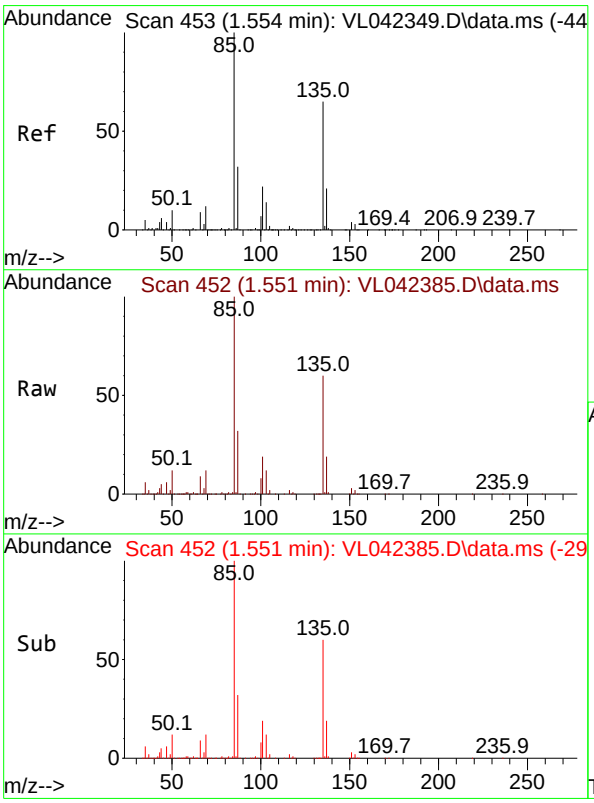
#7
Chloroethane
Concen: 8.263 ppbv
RT: 1.703 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Instrument :
MSVOA_L
ClientSampleId :
VL0418ABS01

Tgt Ion: 64 Resp: 31293

Ion	Ratio	Lower	Upper
64	100		
66	36.4	24.6	37.0

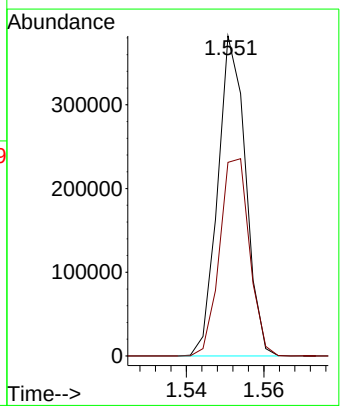


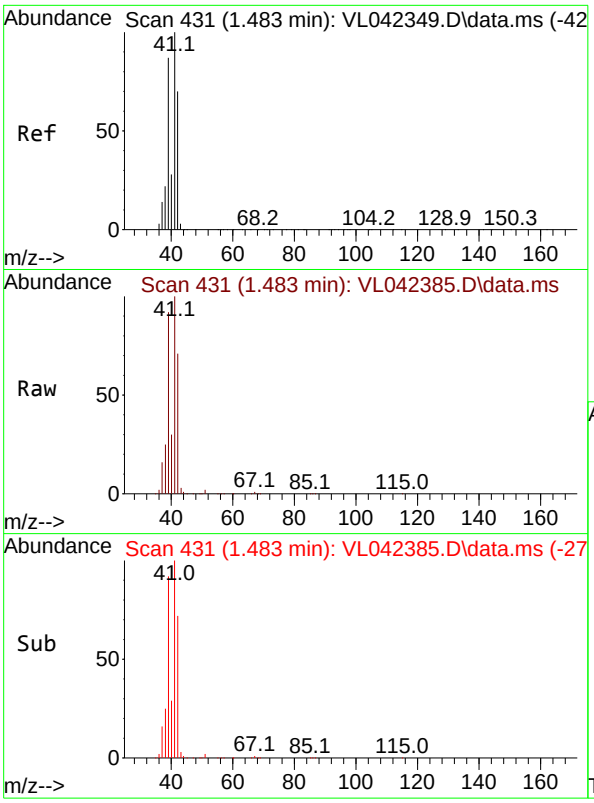


#8
Dichlorotetrafluoroethane
Concen: 9.137 ppbv
RT: 1.551 min Scan# 452
Delta R.T. -0.003 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Tgt Ion: 85 Resp: 190713

Ion	Ratio	Lower	Upper
85	100		
135	66.5	52.2	78.2



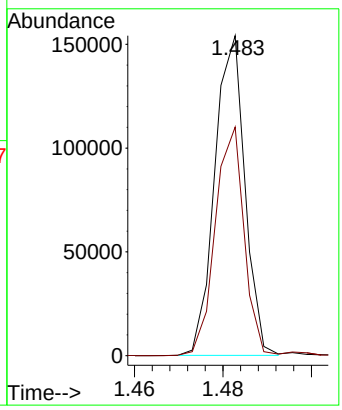


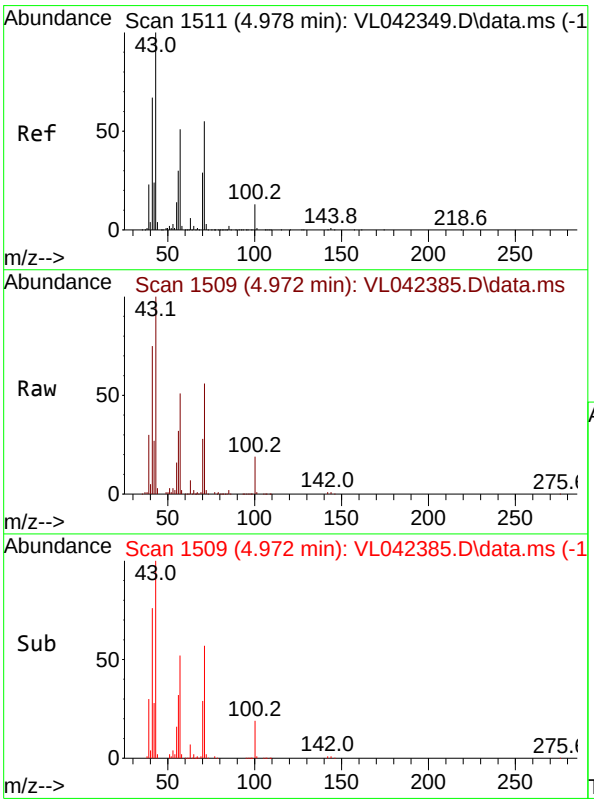
#9
Propene
Concen: 6.920 ppbv
RT: 1.483 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Instrument :
MSVOA_L
ClientSampleId :
VL0418ABS01

Tgt Ion: 41 Resp: 72956

Ion	Ratio	Lower	Upper
41	100		
42	69.5	56.2	84.4

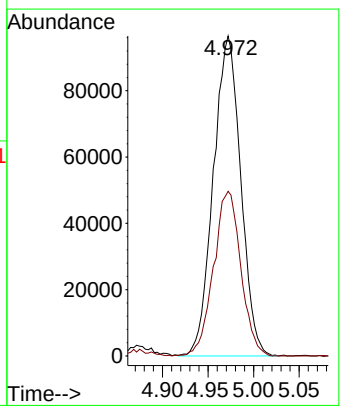


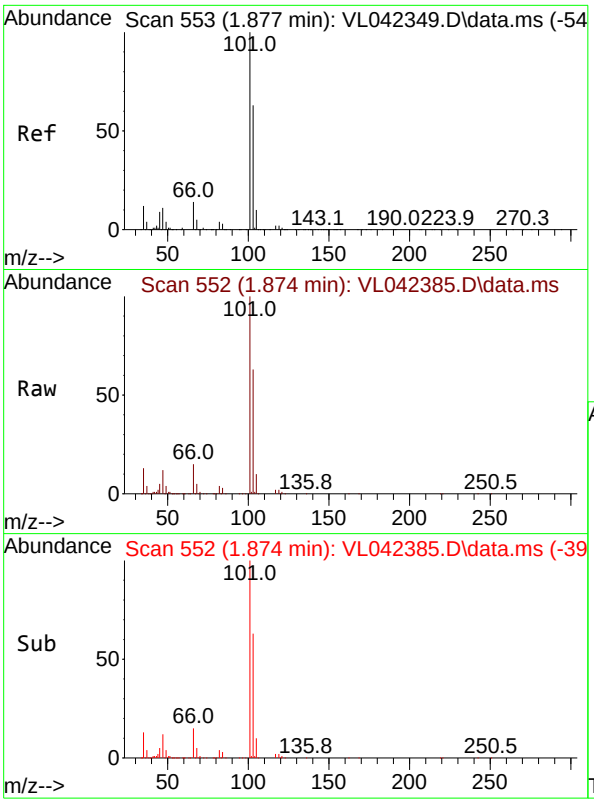


#10
Heptane
Concen: 6.820 ppbv
RT: 4.972 min Scan# 1509
Delta R.T. -0.006 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Tgt Ion: 43 Resp: 201993

Ion	Ratio	Lower	Upper
43	100		
57	51.3	39.9	59.9



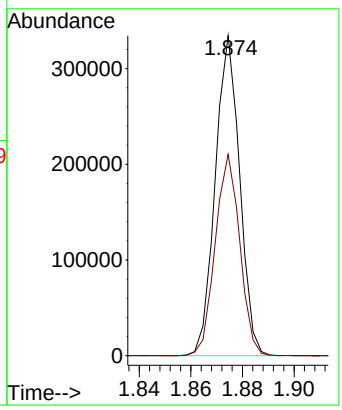


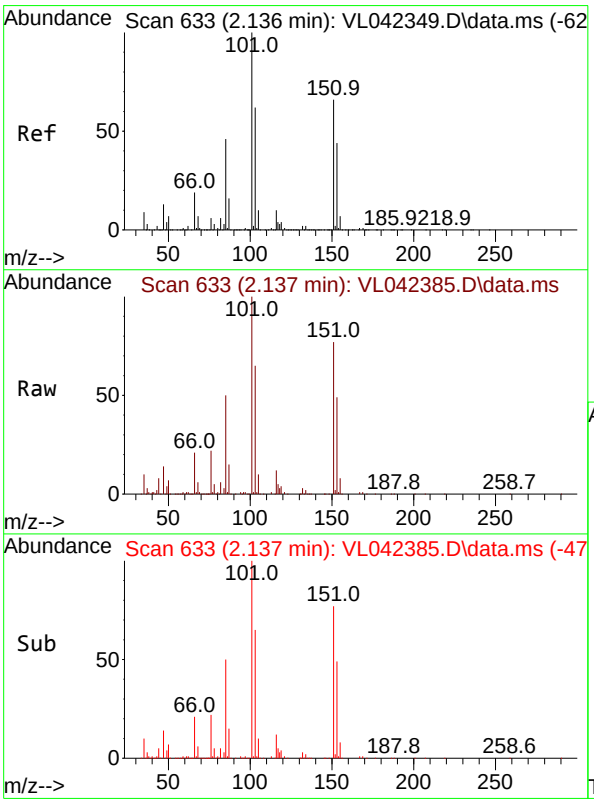
#11
Trichlorofluoromethane
Concen: 9.494 ppbv
RT: 1.874 min Scan# 5
Delta R.T. -0.003 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Instrument :
MSVOA_L
ClientSampleId :
VL0418ABS01

Tgt Ion:101 Resp: 219477

Ion	Ratio	Lower	Upper
101	100		
103	62.9	50.1	75.1

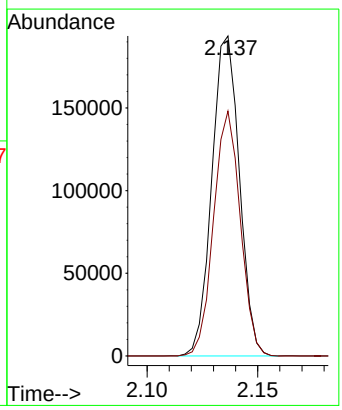


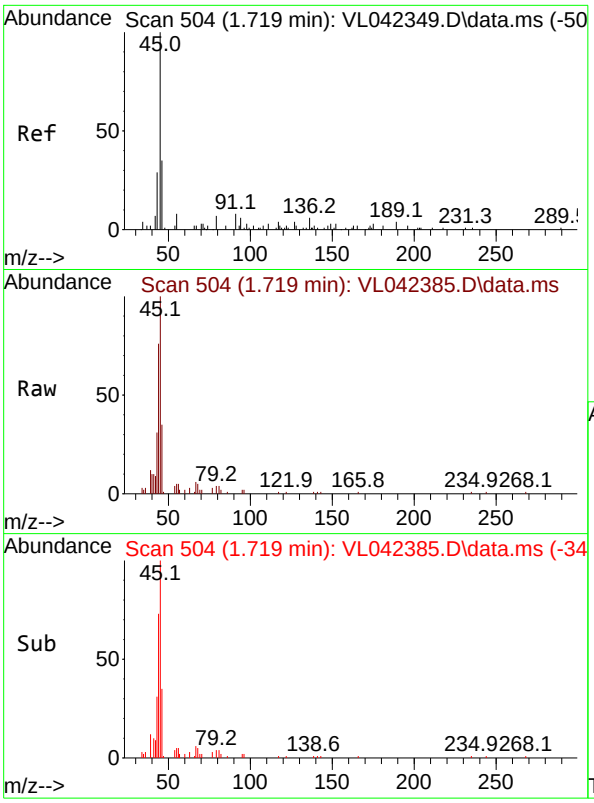


#12
1,1,2-Trichlorotrifluoroethane
Concen: 8.881 ppbv
RT: 2.137 min Scan# 633
Delta R.T. 0.000 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Tgt Ion:101 Resp: 167879

Ion	Ratio	Lower	Upper
101	100		
151	74.0	57.0	85.6



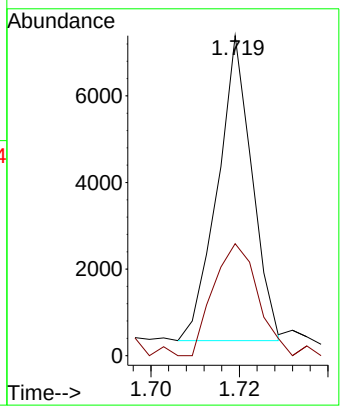


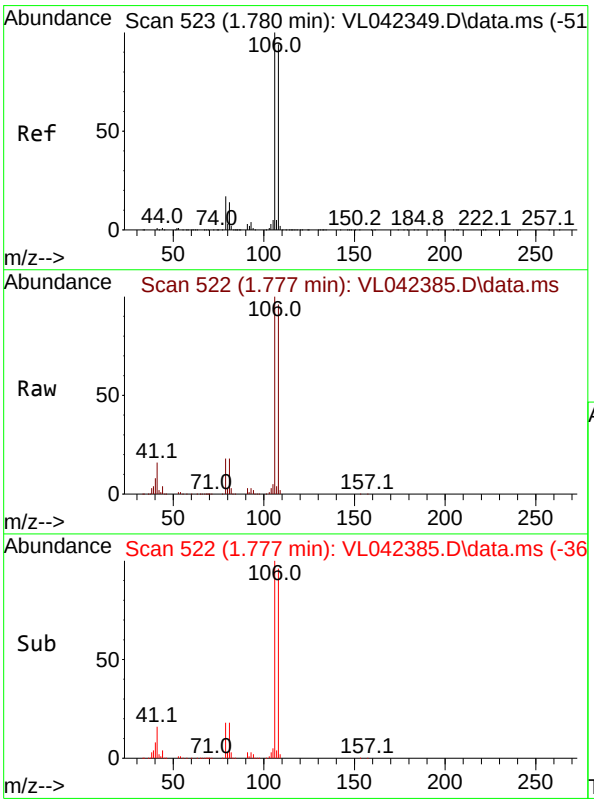
#13
Ethanol
Concen: 2.268 ppbv
RT: 1.719 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Instrument :
MSVOA_L
ClientSampleId :
VL0418ABS01

Tgt Ion: 45 Resp: 3800

Ion	Ratio	Lower	Upper
45	100		
46	51.6	21.9	87.7

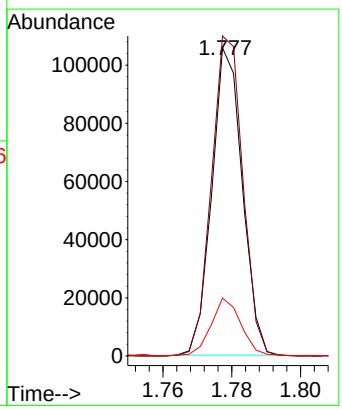


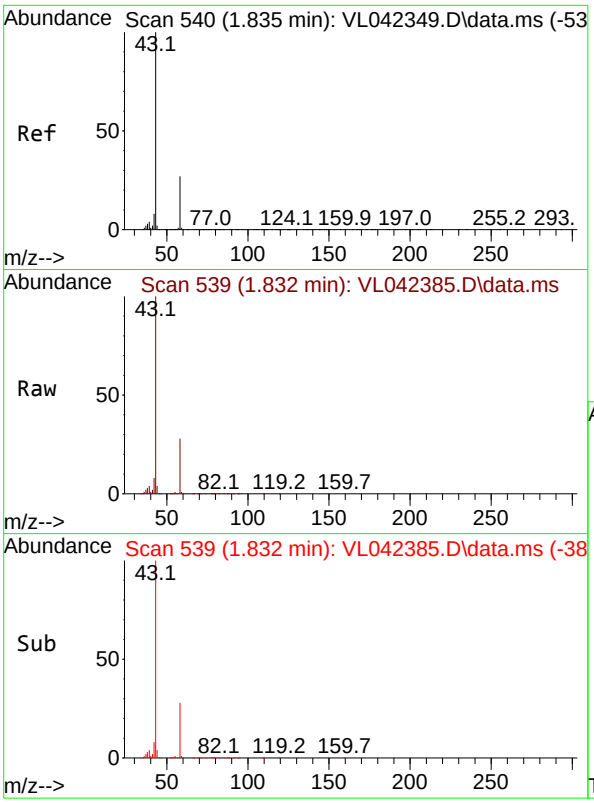


#14
Bromoethene
Concen: 9.126 ppbv
RT: 1.777 min Scan# 522
Delta R.T. -0.003 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Tgt Ion:108 Resp: 65024

Ion	Ratio	Lower	Upper
108	100		
106	107.2	85.9	128.9
79	19.1	13.9	20.9



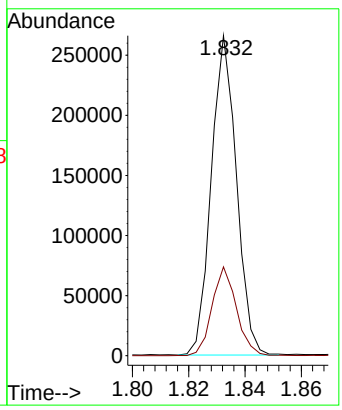


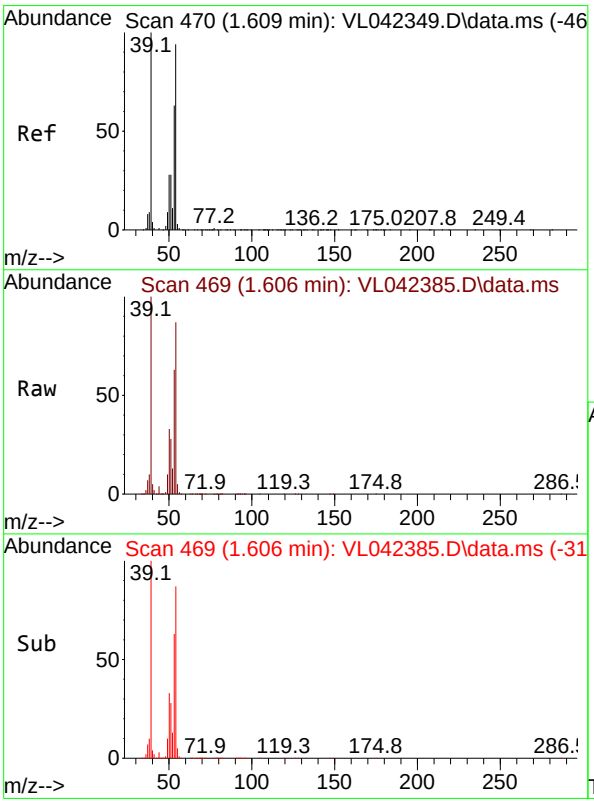
#15
Acetone
Concen: 7.322 ppbv
RT: 1.832 min Scan# 5
Delta R.T. -0.003 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Instrument :
MSVOA_L
ClientSampleId :
VL0418ABS01

Tgt Ion: 43 Resp: 164938

Ion	Ratio	Lower	Upper
43	100		
58	27.0	22.4	33.6

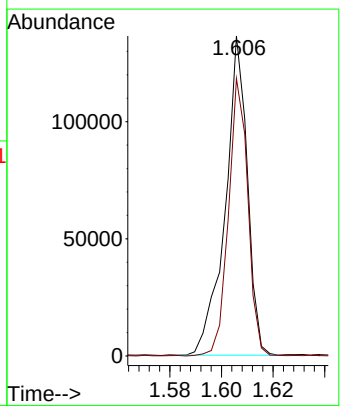


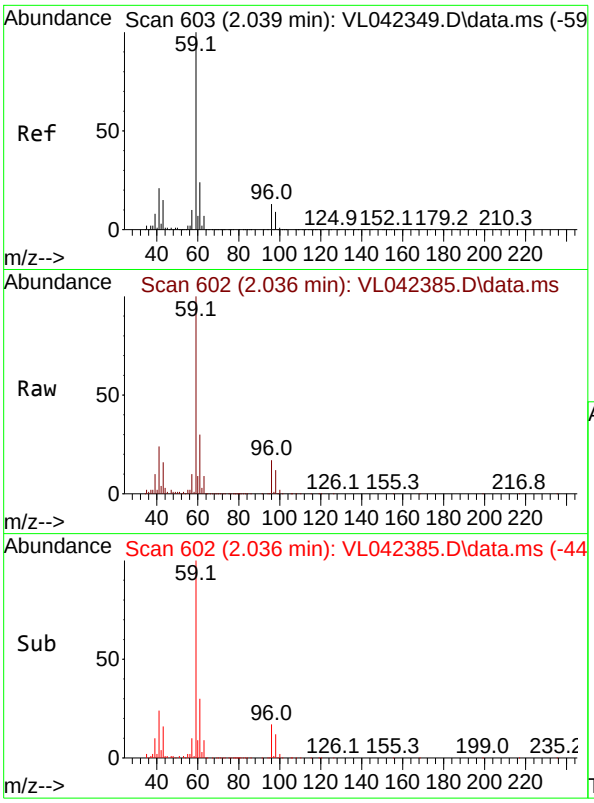


#16
1,3-Butadiene
Concen: 7.551 ppbv
RT: 1.606 min Scan# 469
Delta R.T. -0.003 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Tgt Ion: 39 Resp: 81350

Ion	Ratio	Lower	Upper
39	100		
54	75.9	64.9	97.3



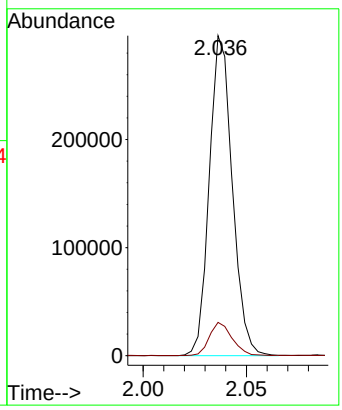


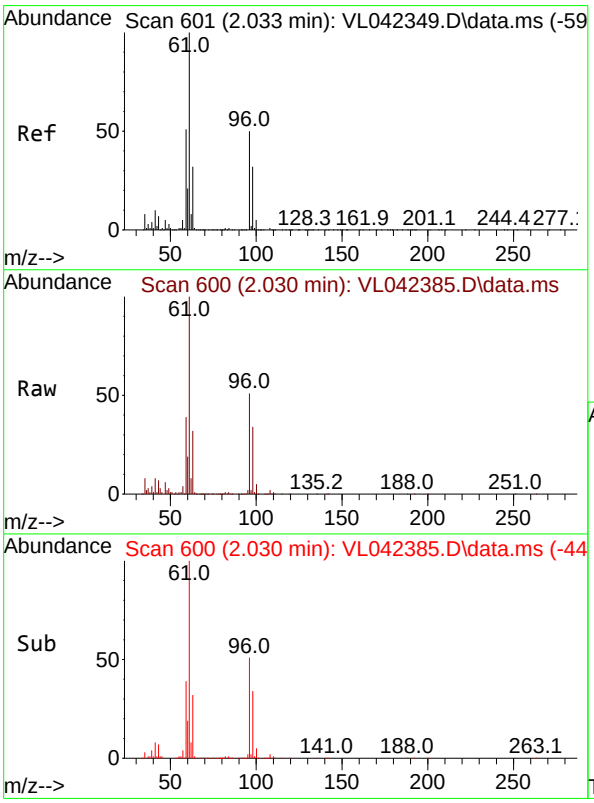
#17
tert-Butyl alcohol
Concen: 8.201 ppbv
RT: 2.036 min Scan# 6
Delta R.T. -0.003 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Instrument :
MSVOA_L
ClientSampleId :
VL0418ABS01

Tgt Ion: 59 Resp: 228926

Ion	Ratio	Lower	Upper
59	100		
57	10.7	8.7	13.1

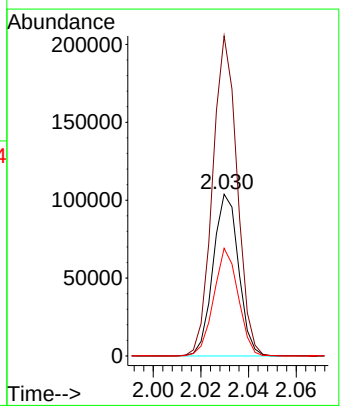


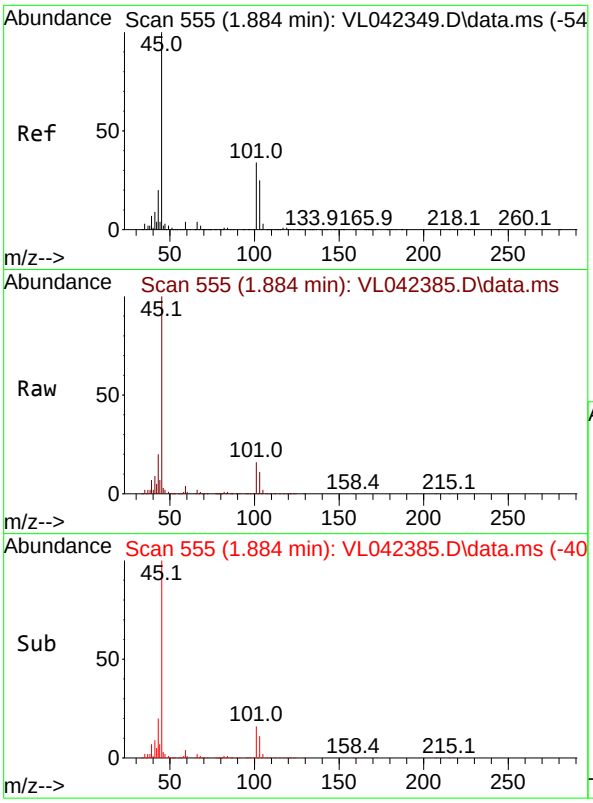


#18
1,1-Dichloroethene
Concen: 8.710 ppbv
RT: 2.030 min Scan# 600
Delta R.T. -0.003 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Tgt Ion: 96 Resp: 76914

Ion	Ratio	Lower	Upper
96	100		
61	197.8	160.2	240.2
98	66.6	51.0	76.4



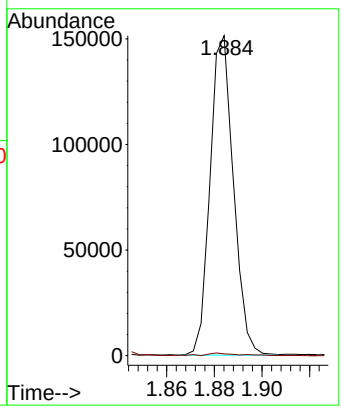


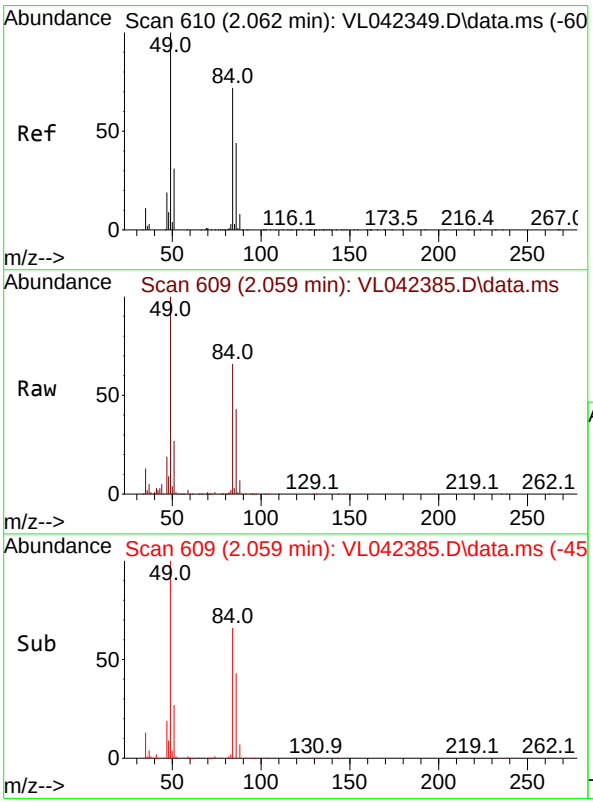
#19
Isopropyl Alcohol
Concen: 8.242 ppbv
RT: 1.884 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Instrument :
MSVOA_L
ClientSampleId :
VL0418ABS01

Tgt Ion: 45 Resp: 103131

Ion	Ratio	Lower	Upper
45	100		
58	43.5	34.5	51.7

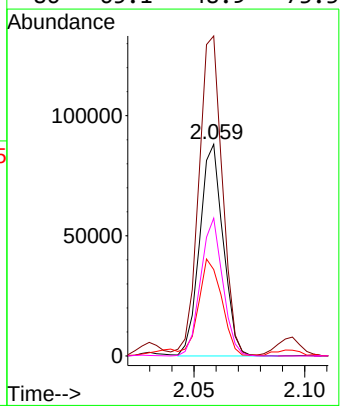


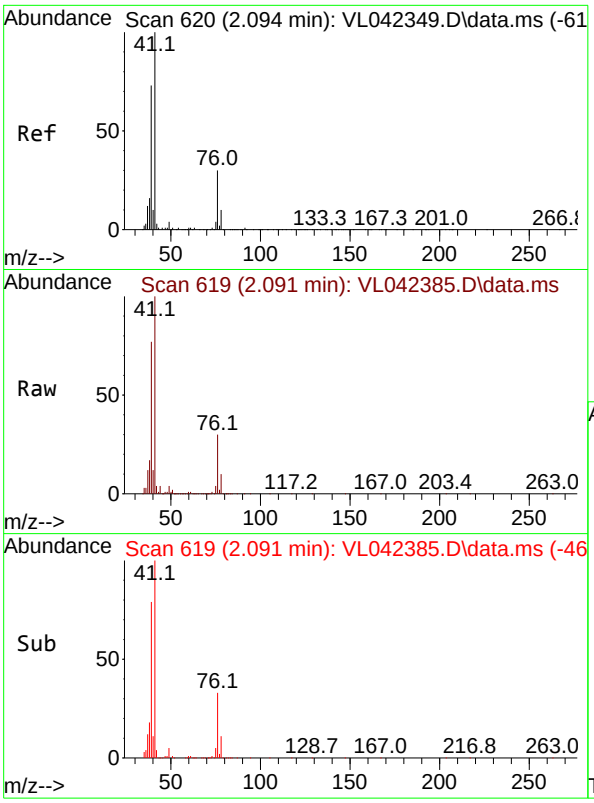


#20
Methylene Chloride
Concen: 7.360 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.003 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Tgt Ion: 84 Resp: 64925

Ion	Ratio	Lower	Upper
84	100		
49	148.0	111.6	167.4
51	39.0	35.1	52.7
86	65.1	48.9	73.3



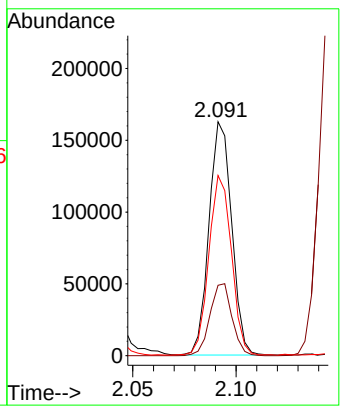


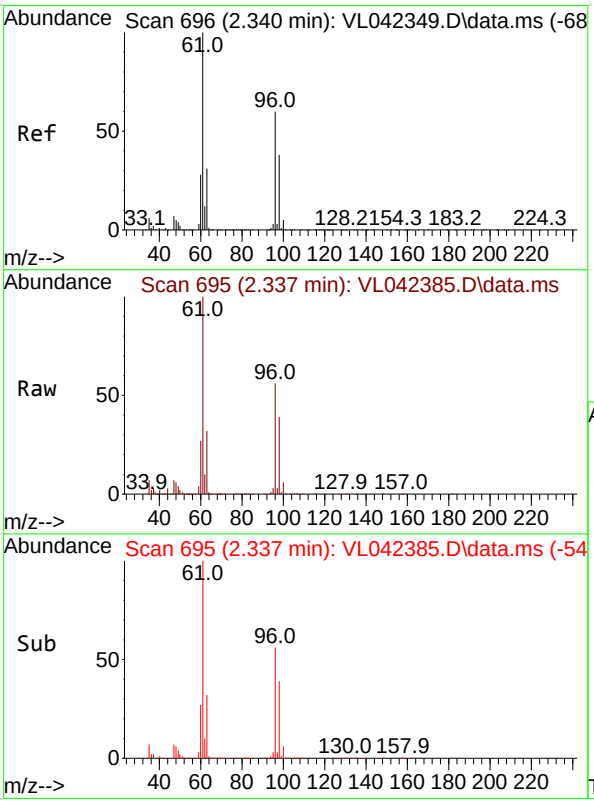
#21
Allyl Chloride
Concen: 7.955 ppbv
RT: 2.091 min Scan# 61
Delta R.T. -0.003 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Instrument :
MSVOA_L
ClientSampleId :
VL0418ABS01

Tgt Ion: 41 Resp: 123726

Ion	Ratio	Lower	Upper
41	100		
76	30.0	24.8	37.2
39	76.9	60.6	90.8

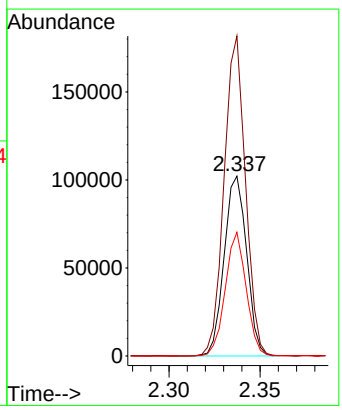


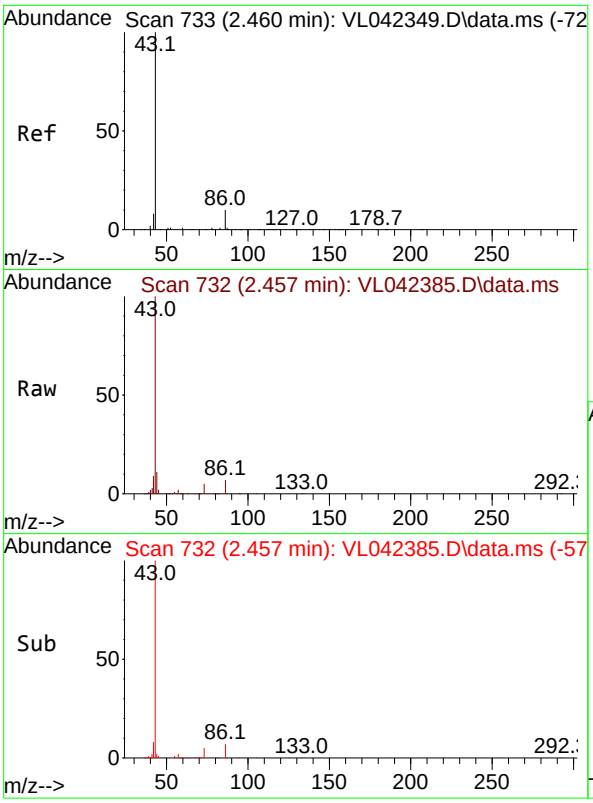


#22
trans-1,2-Dichloroethene
Concen: 8.723 ppbv
RT: 2.337 min Scan# 695
Delta R.T. -0.003 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Tgt Ion: 96 Resp: 87708

Ion	Ratio	Lower	Upper
96	100		
61	177.9	133.7	200.5
98	68.8	50.3	75.5



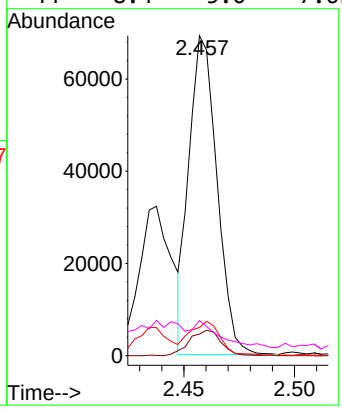


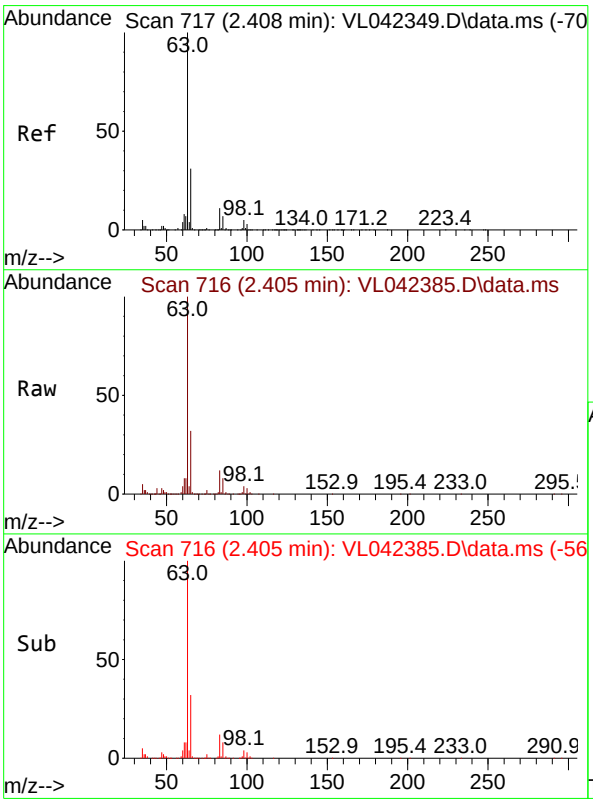
#23
Vinyl Acetate
Concen: 6.663 ppbv
RT: 2.457 min Scan# 7
Delta R.T. -0.003 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Instrument :
MSVOA_L
ClientSampleId :
VL0418ABS01

Tgt Ion: 43 Resp: 60750

Ion	Ratio	Lower	Upper
43	100		
86	6.8	6.5	9.7
42	8.8	7.8	11.8
44	8.4	5.0	7.6#

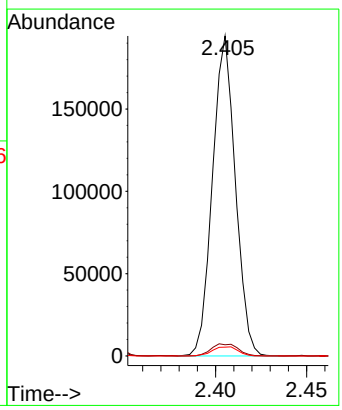


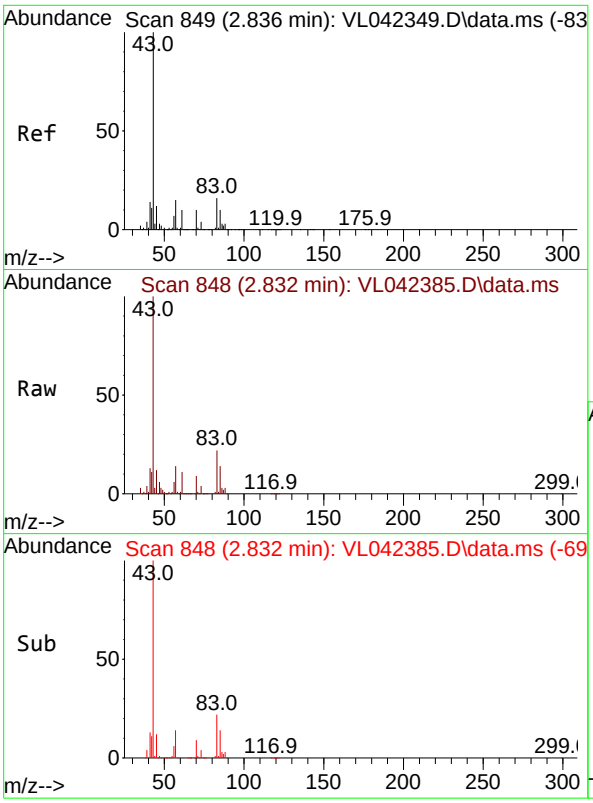


#24
1,1-Dichloroethane
Concen: 8.882 ppbv
RT: 2.405 min Scan# 716
Delta R.T. -0.003 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Tgt Ion: 63 Resp: 169635

Ion	Ratio	Lower	Upper
63	100		
98	3.5	2.3	6.8
100	2.8	1.6	4.8



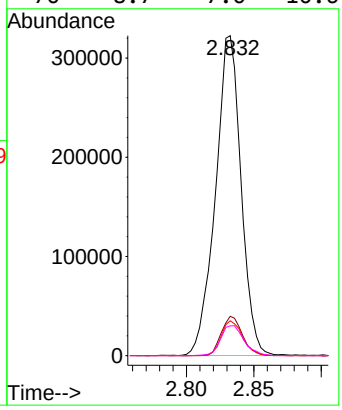


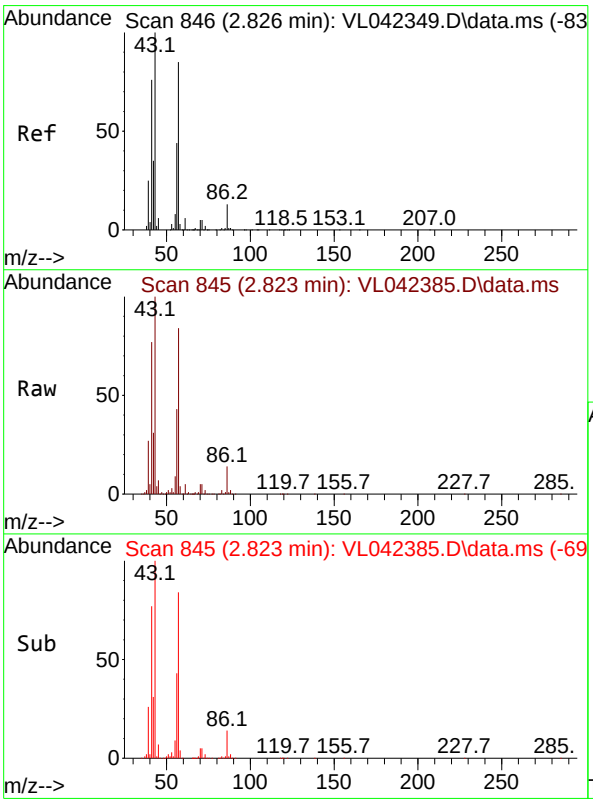
#25
Ethyl Acetate
Concen: 7.672 ppbv
RT: 2.832 min Scan# 84
Delta R.T. -0.003 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Instrument :
MSVOA_L
ClientSampleId :
VL0418ABS01

Tgt Ion: 43 Resp: 426071

Ion	Ratio	Lower	Upper
43	100		
45	10.2	8.3	12.5
61	9.1	7.3	10.9
70	8.7	7.0	10.6

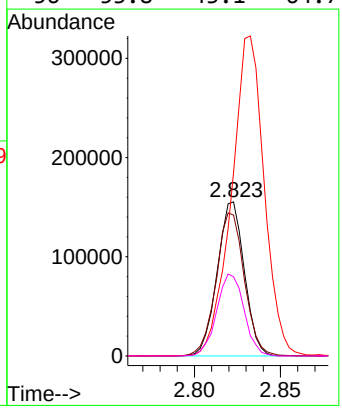


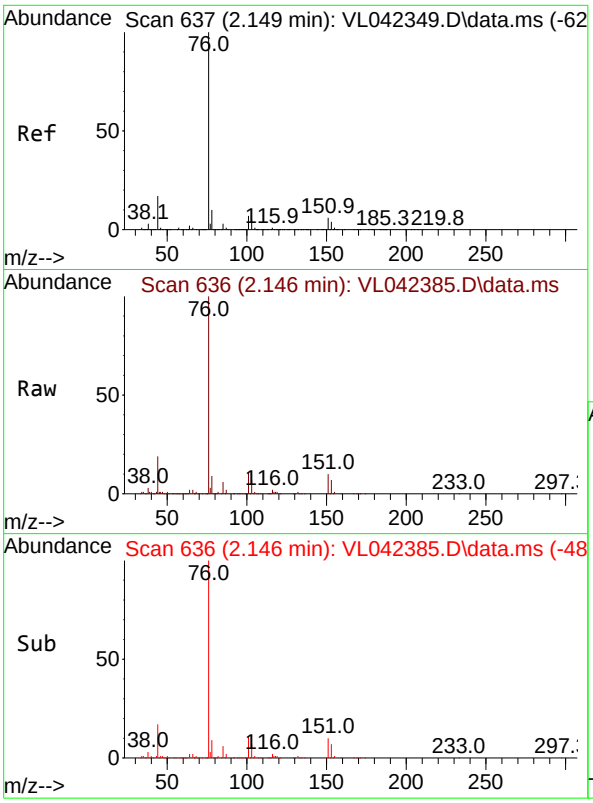


#26
Hexane
Concen: 7.570 ppbv
RT: 2.823 min Scan# 845
Delta R.T. -0.003 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Tgt Ion: 57 Resp: 170131

Ion	Ratio	Lower	Upper
57	100		
41	97.1	77.9	116.9
43	251.0	208.4	312.6
56	53.8	43.1	64.7



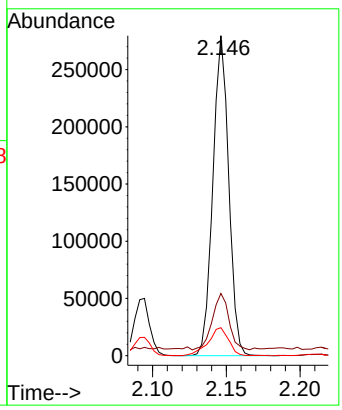


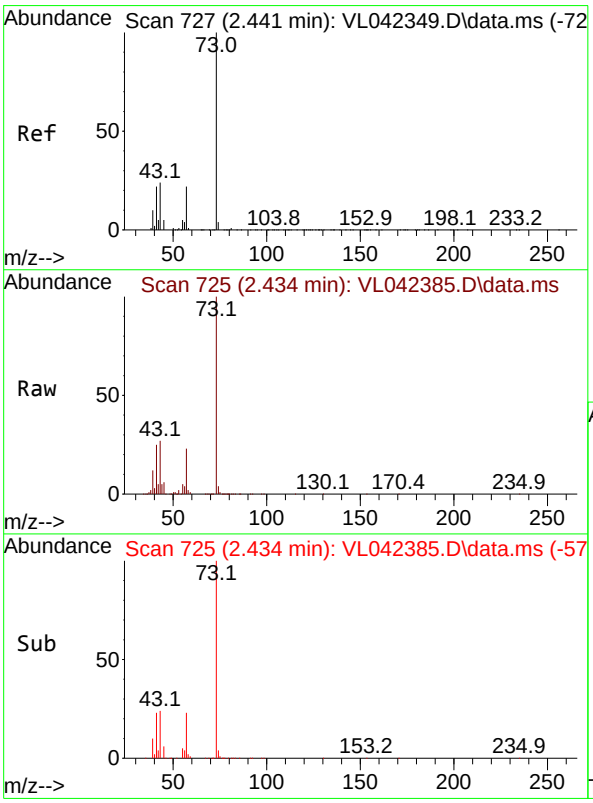
#27
Carbon Disulfide
Concen: 8.676 ppbv
RT: 2.146 min Scan# 6
Delta R.T. -0.003 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Instrument :
MSVOA_L
ClientSampleId :
VL0418ABS01

Tgt Ion: 76 Resp: 208766

Ion	Ratio	Lower	Upper
76	100		
44	17.8	15.5	23.3
78	11.3	9.3	13.9

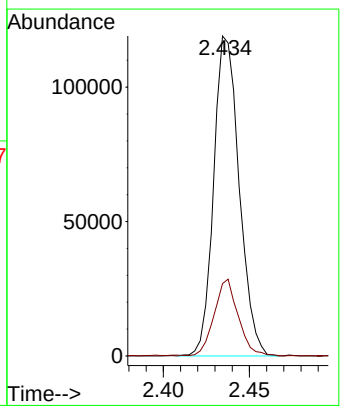


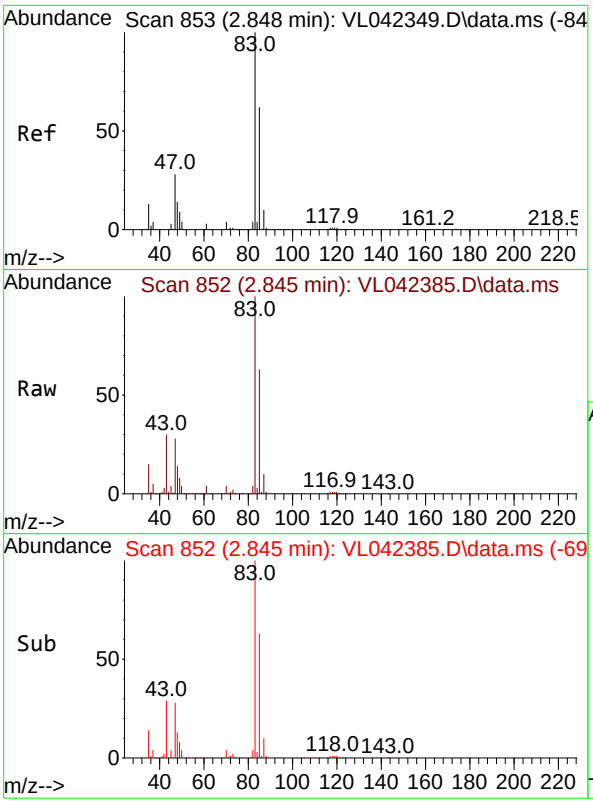


#28
Methyl tert-Butyl Ether
Concen: 8.345 ppbv
RT: 2.434 min Scan# 725
Delta R.T. -0.006 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Tgt Ion: 73 Resp: 122891

Ion	Ratio	Lower	Upper
73	100		
57	22.9	21.3	31.9



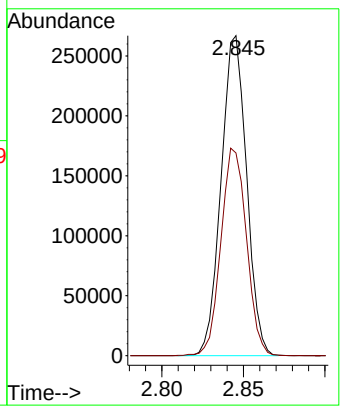


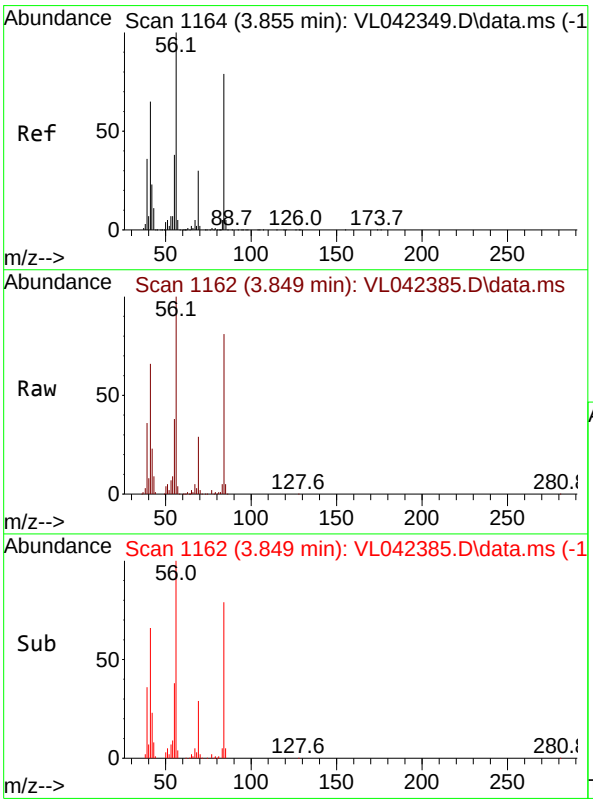
#29
Chloroform
Concen: 9.131 ppbv
RT: 2.845 min Scan# 8
Delta R.T. -0.003 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Instrument :
MSVOA_L
ClientSampleId :
VL0418ABS01

Tgt Ion: 83 Resp: 290070

Ion	Ratio	Lower	Upper
83	100		
85	63.2	50.0	75.0

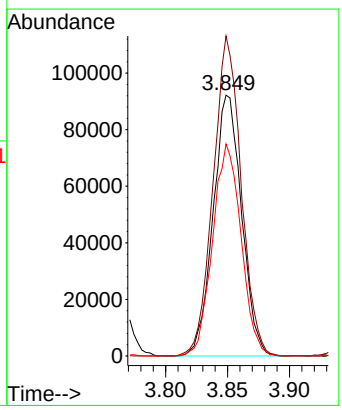


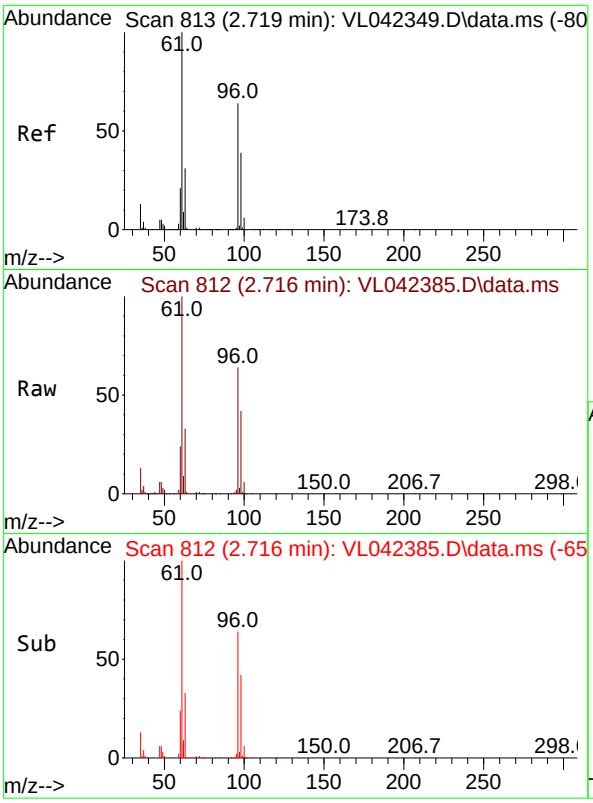


#30
Cyclohexane
Concen: 8.129 ppbv
RT: 3.849 min Scan# 1162
Delta R.T. -0.006 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Tgt Ion: 84 Resp: 147689

Ion	Ratio	Lower	Upper
84	100		
56	120.4	101.0	151.4
41	81.3	67.4	101.0



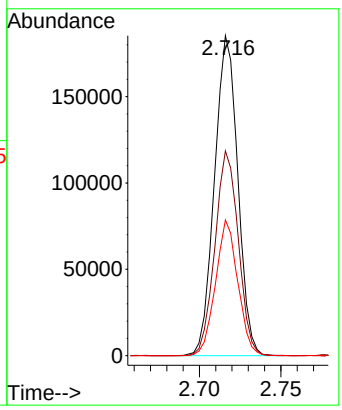


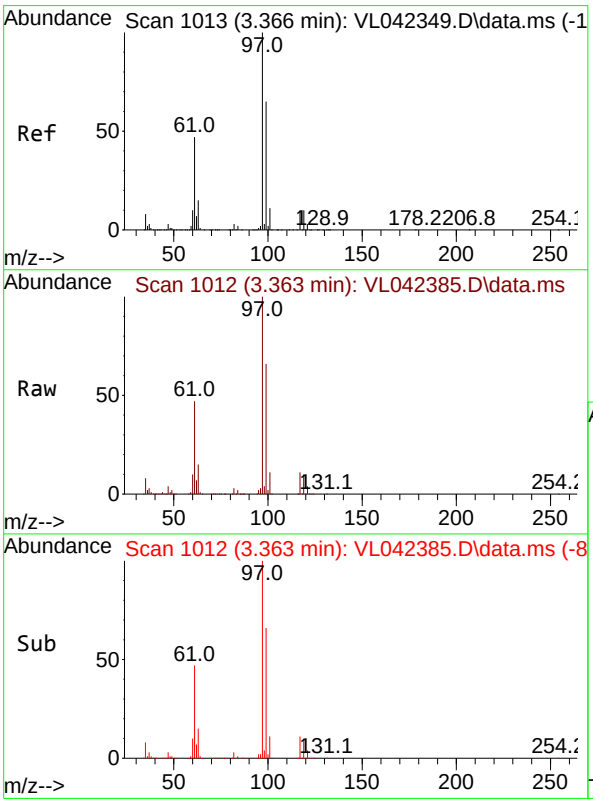
#31
cis-1,2-Dichloroethene
Concen: 8.615 ppbv
RT: 2.716 min Scan# 8
Delta R.T. -0.003 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Instrument :
MSVOA_L
ClientSampleId :
VL0418ABS01

Tgt Ion: 61 Resp: 184087

Ion	Ratio	Lower	Upper
61	100		
96	64.0	50.8	76.2
98	42.4	30.9	46.3

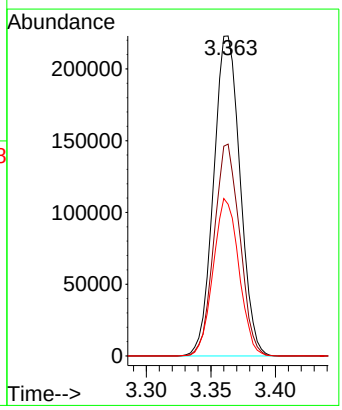


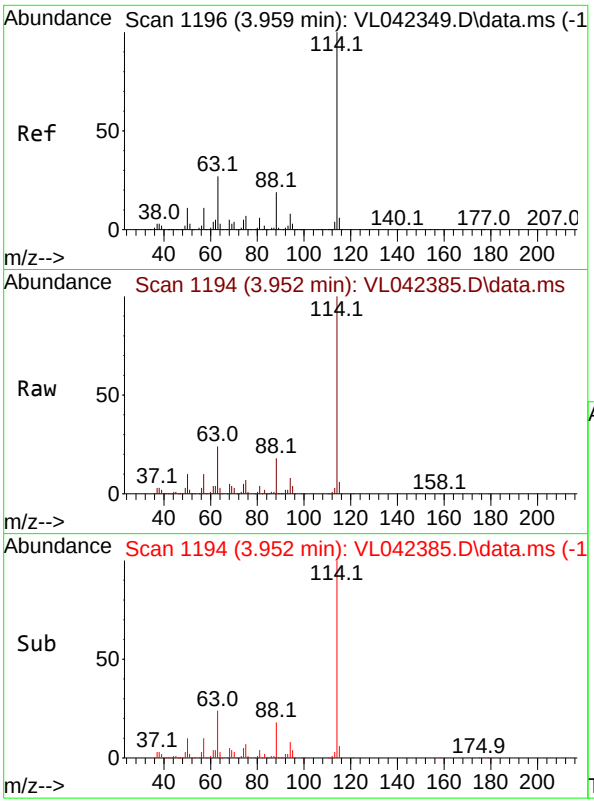


#32
1,1,1-Trichloroethane
Concen: 8.882 ppbv
RT: 3.363 min Scan# 1012
Delta R.T. -0.003 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Tgt Ion: 97 Resp: 317651

Ion	Ratio	Lower	Upper
97	100		
99	64.2	51.0	76.4
61	48.0	38.8	58.2



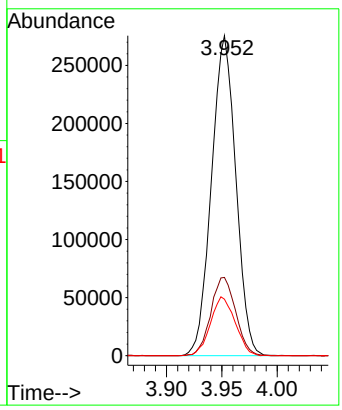


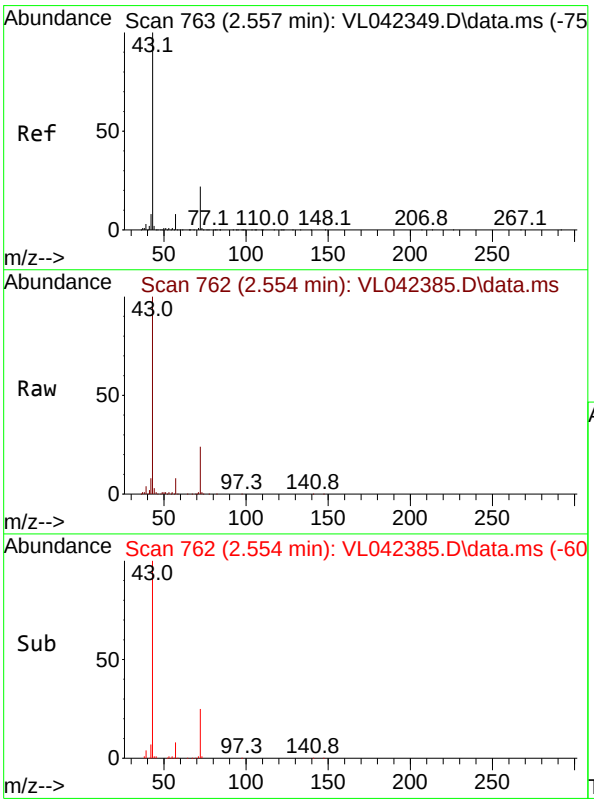
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.952 min Scan# 11
Delta R.T. -0.006 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Instrument :
MSVOA_L
ClientSampleId :
VL0418ABS01

Tgt Ion:114 Resp: 421834

Ion	Ratio	Lower	Upper
114	100		
63	25.0	21.8	32.6
88	18.7	15.5	23.3

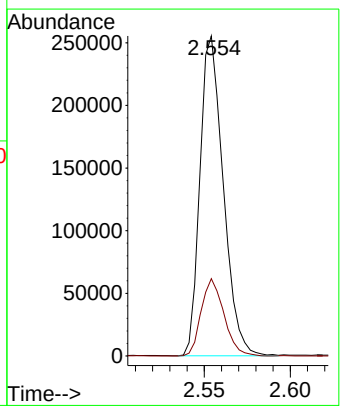


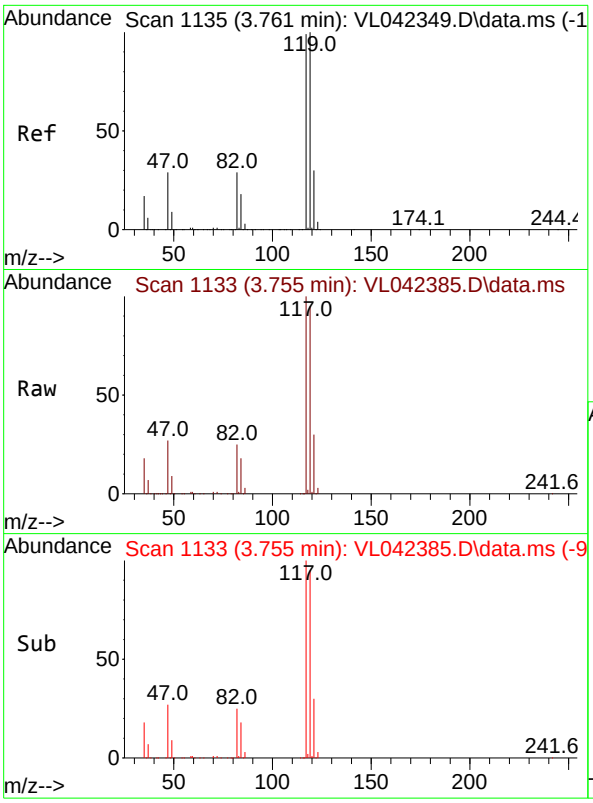


#34
2-Butanone
Concen: 7.208 ppbv
RT: 2.554 min Scan# 762
Delta R.T. -0.003 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Tgt Ion: 43 Resp: 240467

Ion	Ratio	Lower	Upper
43	100		
72	23.6	18.2	27.2



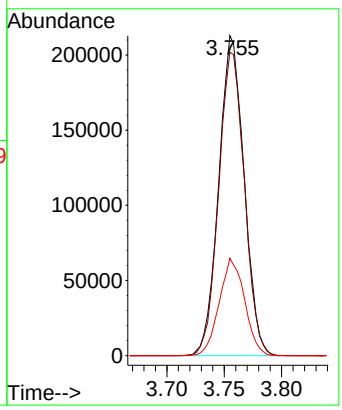


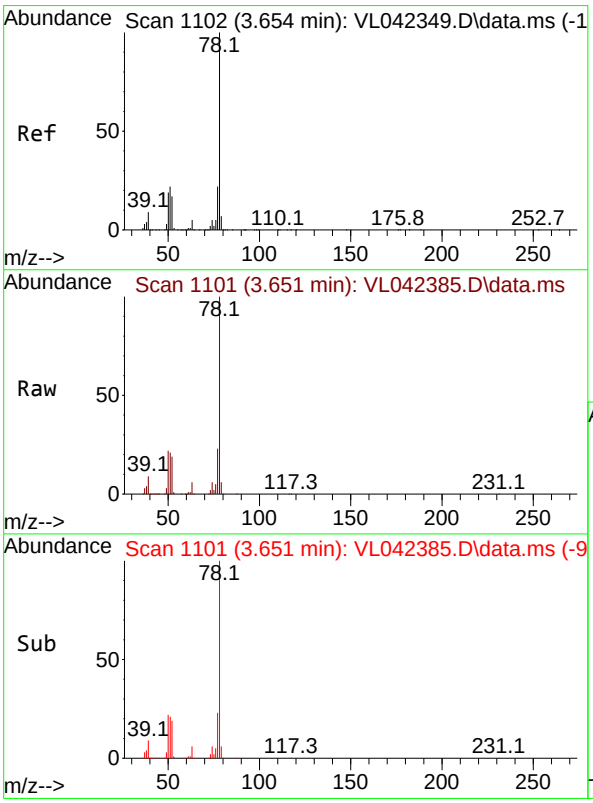
#35
Carbon Tetrachloride
Concen: 8.556 ppbv
RT: 3.755 min Scan# 11
Delta R.T. -0.006 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Instrument :
MSVOA_L
ClientSampleId :
VL0418ABS01

Tgt Ion:117 Resp: 326652

Ion	Ratio	Lower	Upper
117	100		
119	94.8	80.5	120.7
121	30.4	24.2	36.2

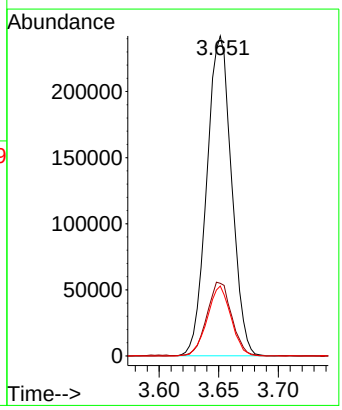


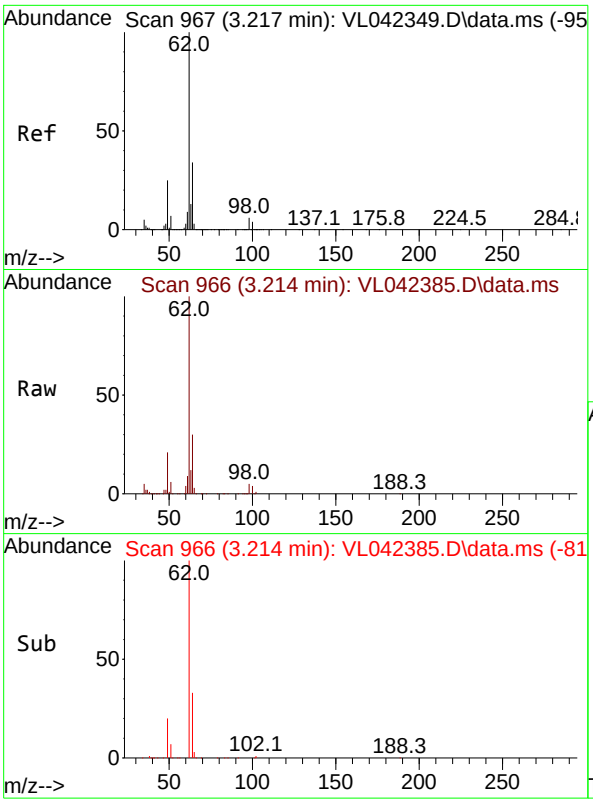


#36
Benzene
Concen: 7.683 ppbv
RT: 3.651 min Scan# 1101
Delta R.T. -0.003 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Tgt Ion: 78 Resp: 349571

Ion	Ratio	Lower	Upper
78	100		
77	22.7	17.4	26.0
50	21.8	15.5	23.3



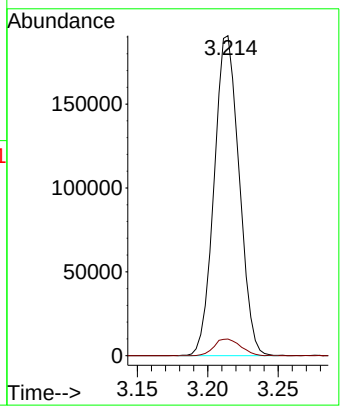


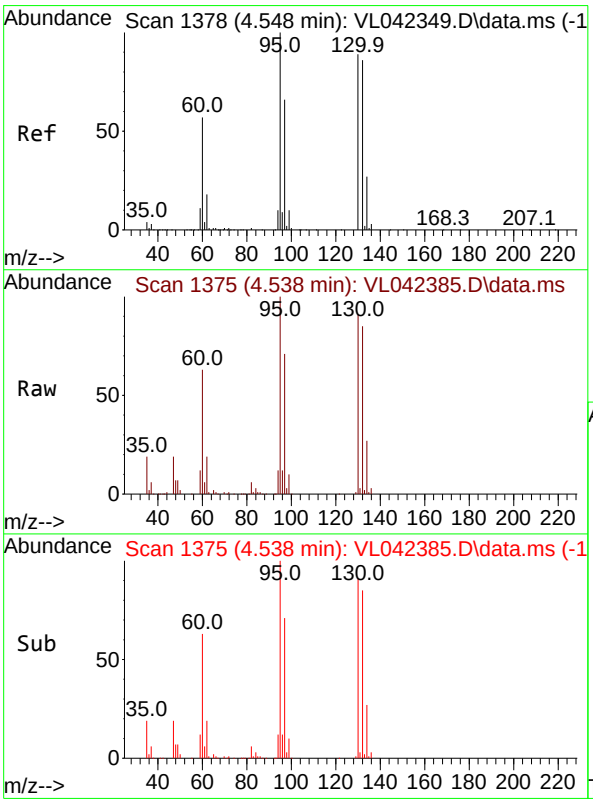
#37
1,2-Dichloroethane
Concen: 8.650 ppbv
RT: 3.214 min Scan# 9
Delta R.T. -0.003 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Instrument :
MSVOA_L
ClientSampleId :
VL0418ABS01

Tgt Ion: 62 Resp: 236222

Ion	Ratio	Lower	Upper
62	100		
98	5.5	5.1	7.7

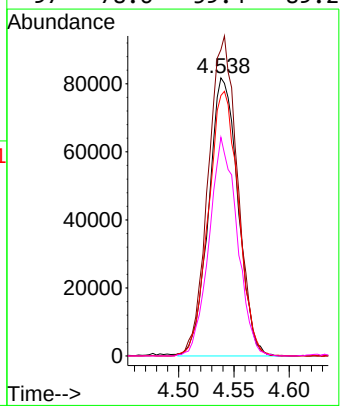


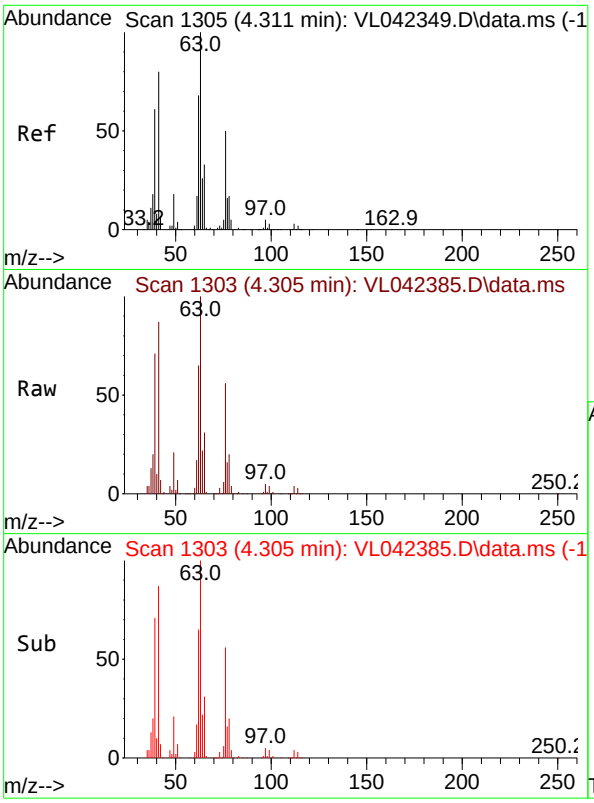


#38
Trichloroethene
Concen: 7.561 ppbv
RT: 4.538 min Scan# 1375
Delta R.T. -0.010 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Tgt Ion:130 Resp: 150355

Ion	Ratio	Lower	Upper
130	100		
95	110.0	89.8	134.6
132	93.4	77.7	116.5
97	78.6	59.4	89.2



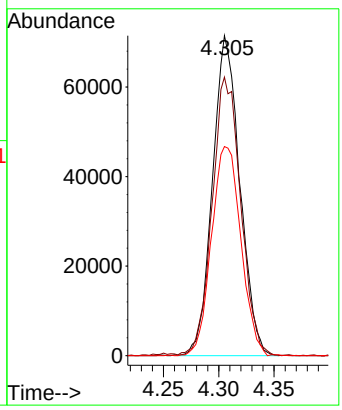


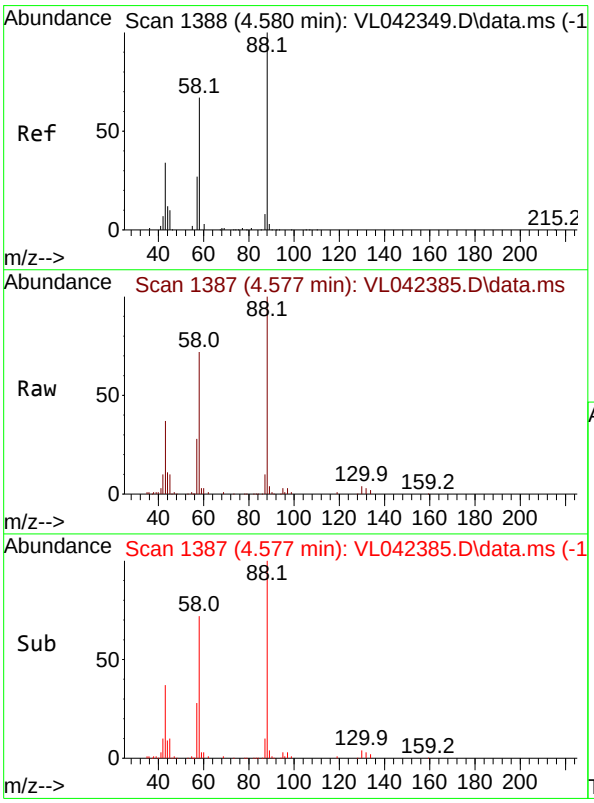
#39
1,2-Dichloropropane
Concen: 7.229 ppbv
RT: 4.305 min Scan# 1
Delta R.T. -0.006 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Instrument :
MSVOA_L
ClientSampleId :
VL0418ABS01

Tgt Ion: 63 Resp: 122577

Ion	Ratio	Lower	Upper
63	100		
41	86.9	64.2	96.2
62	65.3	54.3	81.5

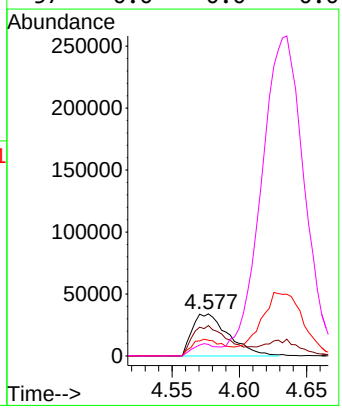


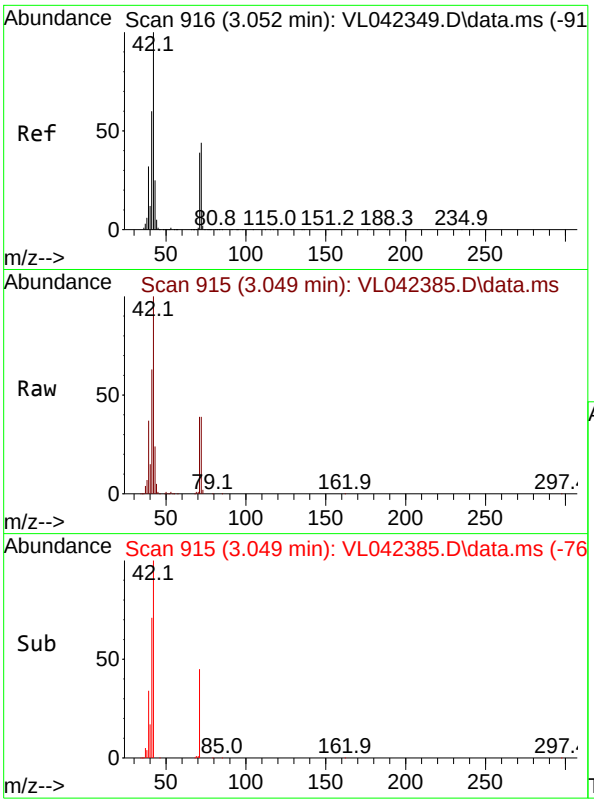


#40
1,4-Dioxane
Concen: 6.819 ppbv
RT: 4.577 min Scan# 1387
Delta R.T. -0.003 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Tgt Ion: 88 Resp: 63539

Ion	Ratio	Lower	Upper
88	100		
58	70.2	61.4	92.0
43	36.0	23.2	34.8#
57	0.0	0.0	0.0



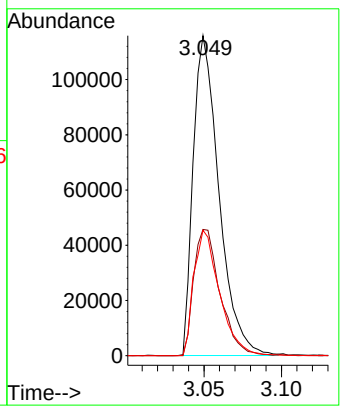


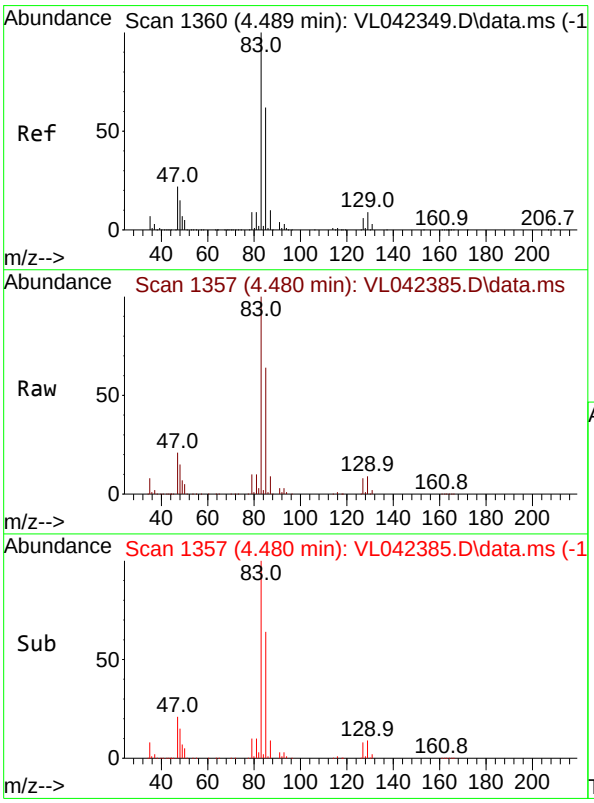
#41
Tetrahydrofuran
Concen: 6.885 ppbv
RT: 3.049 min Scan# 91
Delta R.T. -0.003 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Instrument :
MSVOA_L
ClientSampleId :
VL0418ABS01

Tgt Ion: 42 Resp: 133932

Ion	Ratio	Lower	Upper
42	100		
72	40.5	32.3	48.5
71	39.3	31.4	47.2

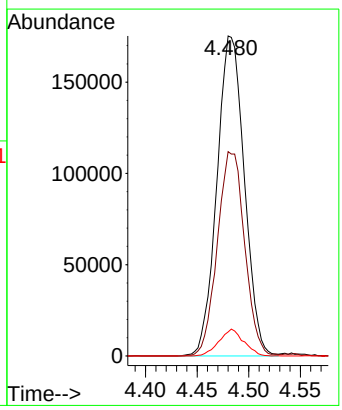


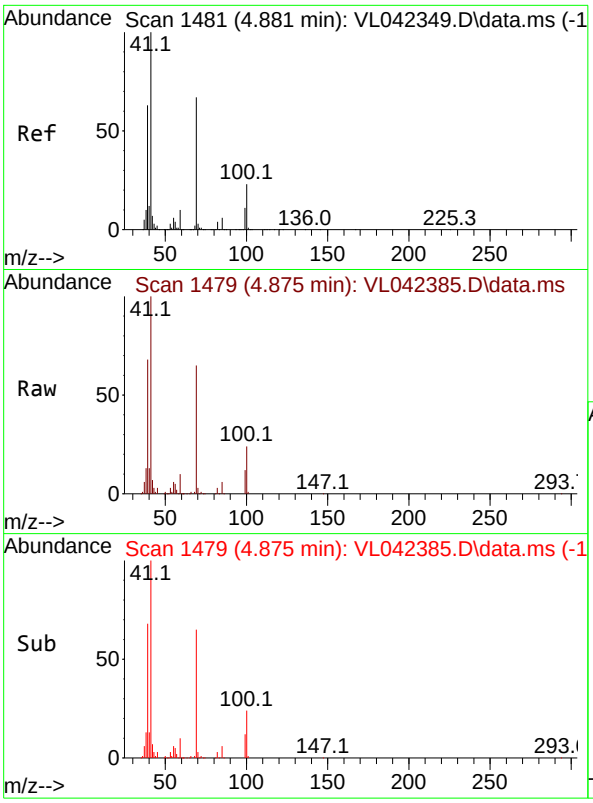


#42
Bromodichloromethane
Concen: 8.535 ppbv
RT: 4.480 min Scan# 1357
Delta R.T. -0.010 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Tgt Ion: 83 Resp: 324378

Ion	Ratio	Lower	Upper
83	100		
85	63.9	49.7	74.5
127	7.5	5.1	7.7



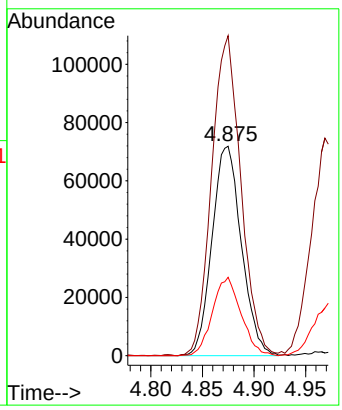


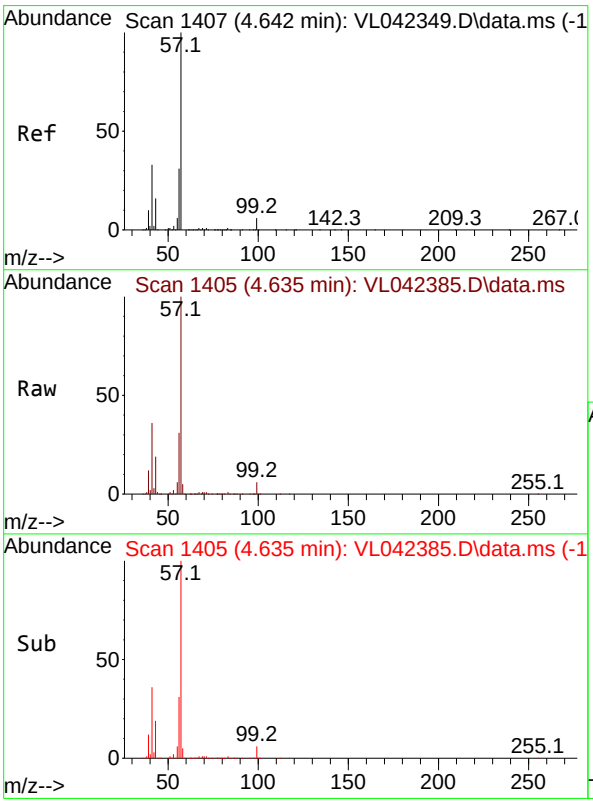
#43
Methyl Methacrylate
Concen: 6.925 ppbv
RT: 4.875 min Scan# 14
Delta R.T. -0.006 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Instrument :
MSVOA_L
ClientSampleId :
VL0418ABS01

Tgt Ion: 69 Resp: 142005

Ion	Ratio	Lower	Upper
69	100		
41	152.1	118.6	177.8
100	36.5	28.2	42.2

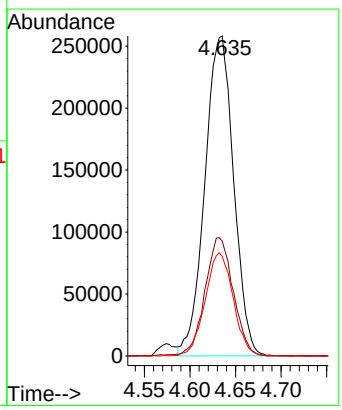


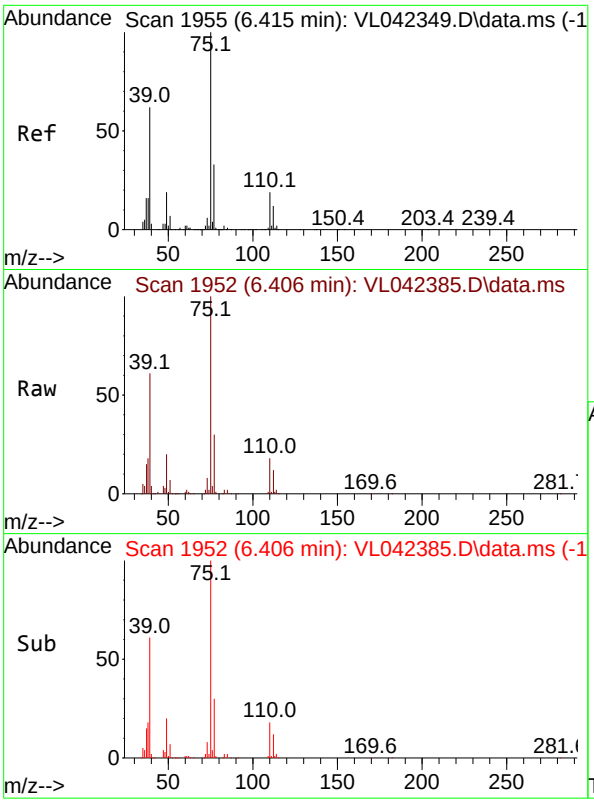


#44
2,2,4-Trimethylpentane
Concen: 7.223 ppbv
RT: 4.635 min Scan# 1405
Delta R.T. -0.006 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Tgt Ion: 57 Resp: 567587

Ion	Ratio	Lower	Upper
57	100		
41	36.5	27.2	40.8
56	31.4	25.7	38.5



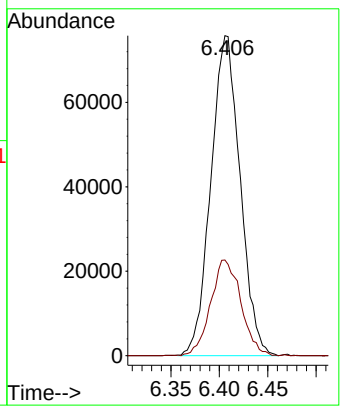


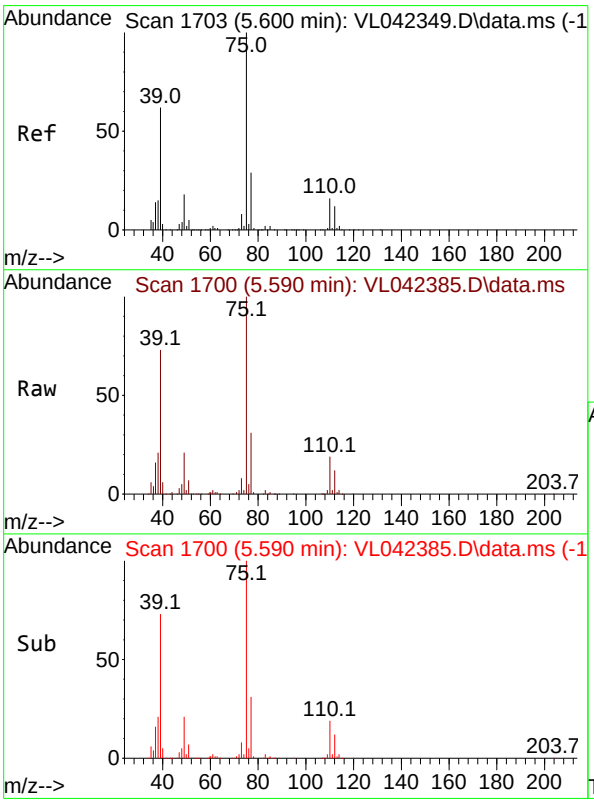
#45
t-1,3-Dichloropropene
Concen: 7.601 ppbv
RT: 6.406 min Scan# 1
Delta R.T. -0.010 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Instrument :
MSVOA_L
ClientSampleId :
VL0418ABS01

Tgt Ion: 75 Resp: 159210

Ion	Ratio	Lower	Upper
75	100		
77	29.9	27.0	40.6

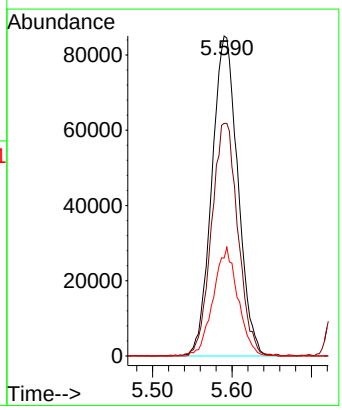


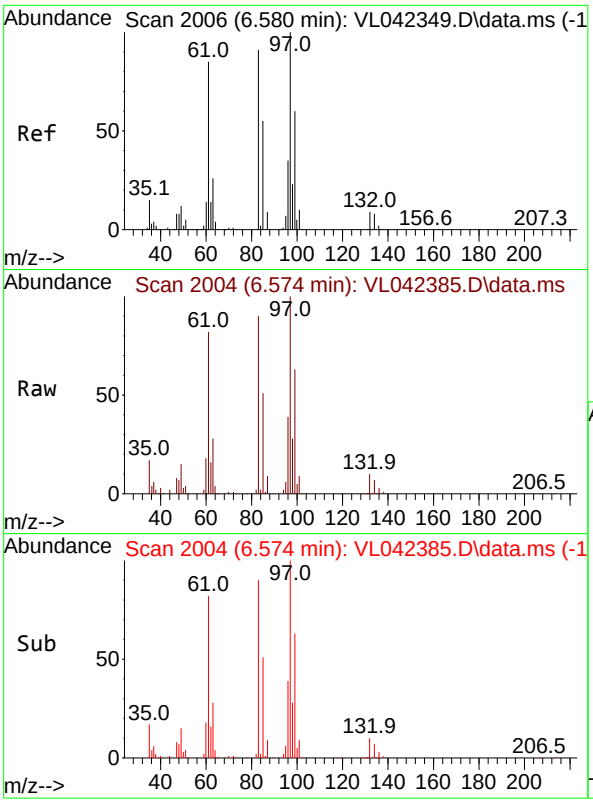


#46
cis-1,3-Dichloropropene
Concen: 7.523 ppbv
RT: 5.590 min Scan# 1700
Delta R.T. -0.010 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Tgt Ion: 75 Resp: 192875

Ion	Ratio	Lower	Upper
75	100		
39	72.6	50.0	75.0
77	30.6	23.0	34.6



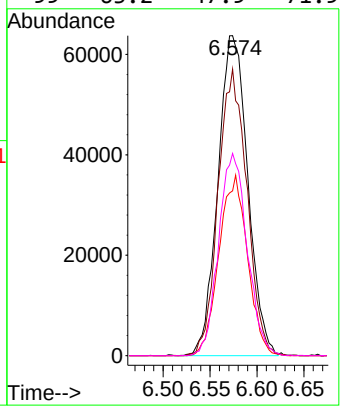


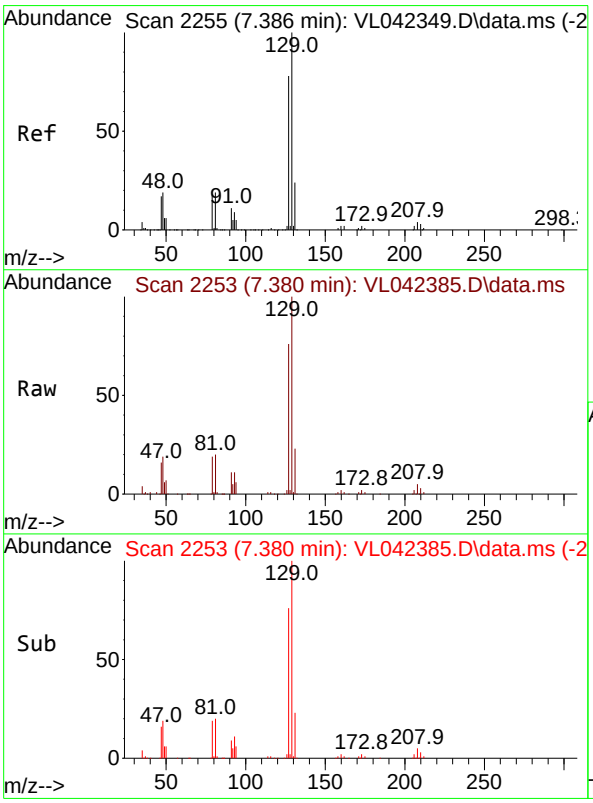
#47
1,1,2-Trichloroethane
Concen: 8.163 ppbv
RT: 6.574 min Scan# 2
Delta R.T. -0.006 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Instrument :
MSVOA_L
ClientSampleId :
VL0418ABS01

Tgt Ion: 97 Resp: 141009

Ion	Ratio	Lower	Upper
97	100		
83	89.5	72.8	109.2
85	51.5	44.2	66.4
99	63.2	47.9	71.9

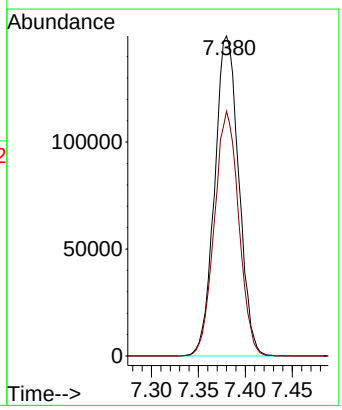


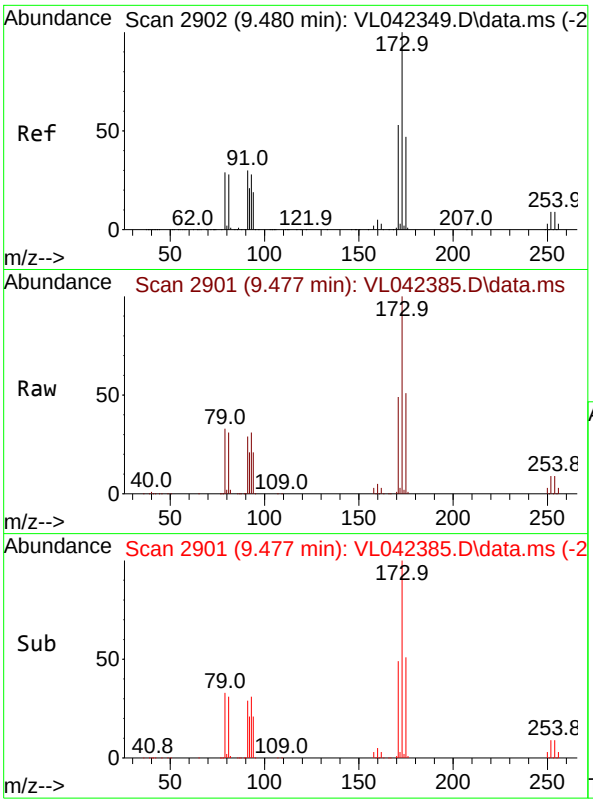


#48
Dibromochloromethane
Concen: 8.756 ppbv
RT: 7.380 min Scan# 2253
Delta R.T. -0.006 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Tgt Ion:129 Resp: 267219

Ion	Ratio	Lower	Upper
129	100		
127	77.3	39.1	117.3



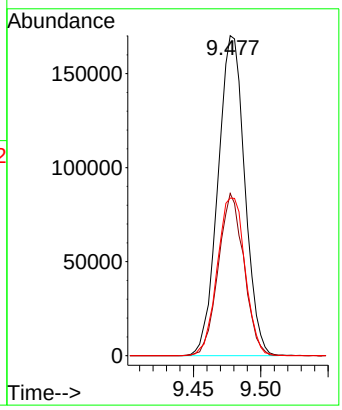


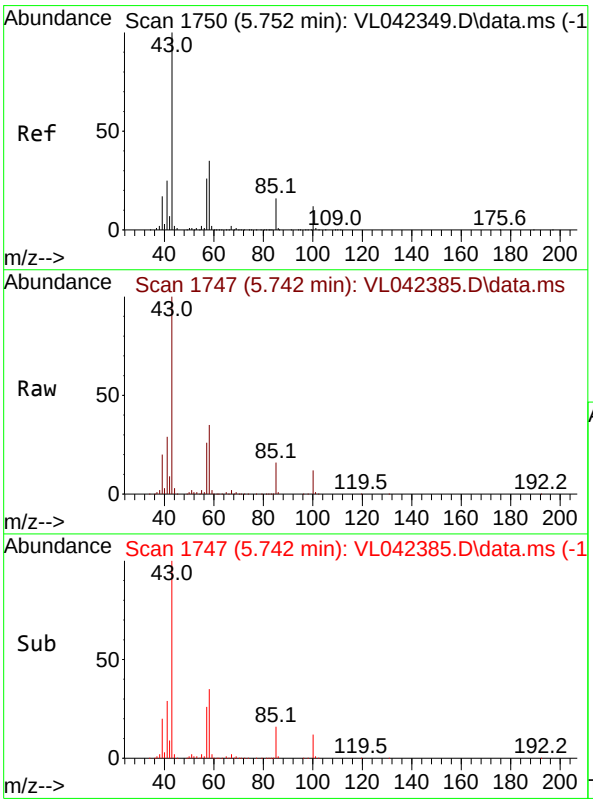
#49
Bromoform
Concen: 8.823 ppbv
RT: 9.477 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Instrument :
MSVOA_L
ClientSampleId :
VL0418ABS01

Tgt Ion:173 Resp: 235451

Ion	Ratio	Lower	Upper
173	100		
175	48.4	38.2	57.2
171	51.3	40.9	61.3

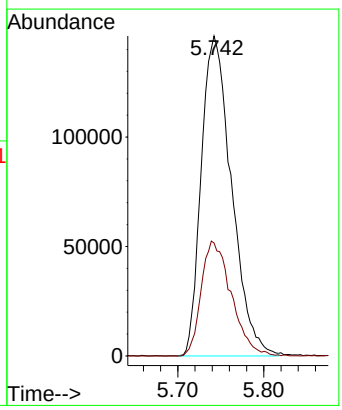


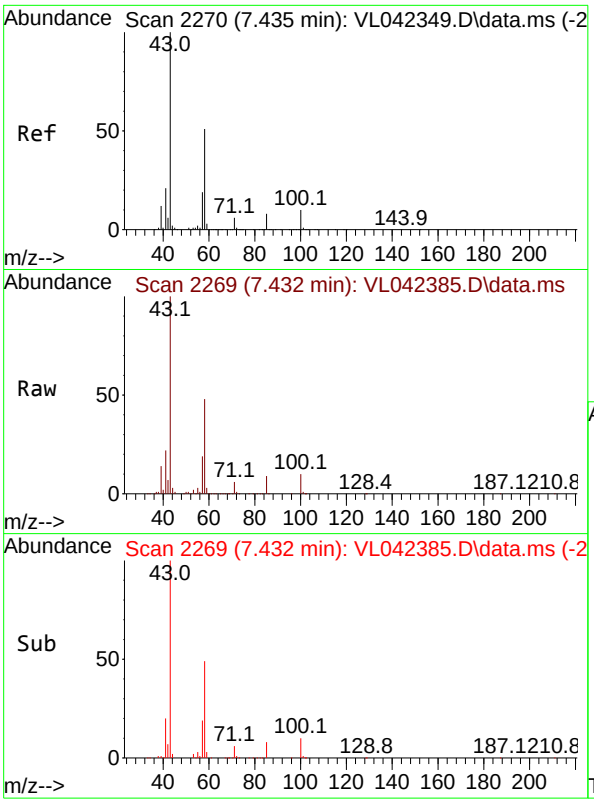


#50
4-Methyl-2-Pentanone
Concen: 6.440 ppbv
RT: 5.742 min Scan# 1747
Delta R.T. -0.010 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Tgt Ion: 43 Resp: 357049

Ion	Ratio	Lower	Upper
43	100		
58	35.8	28.6	43.0



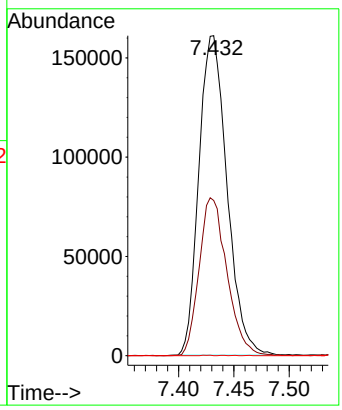


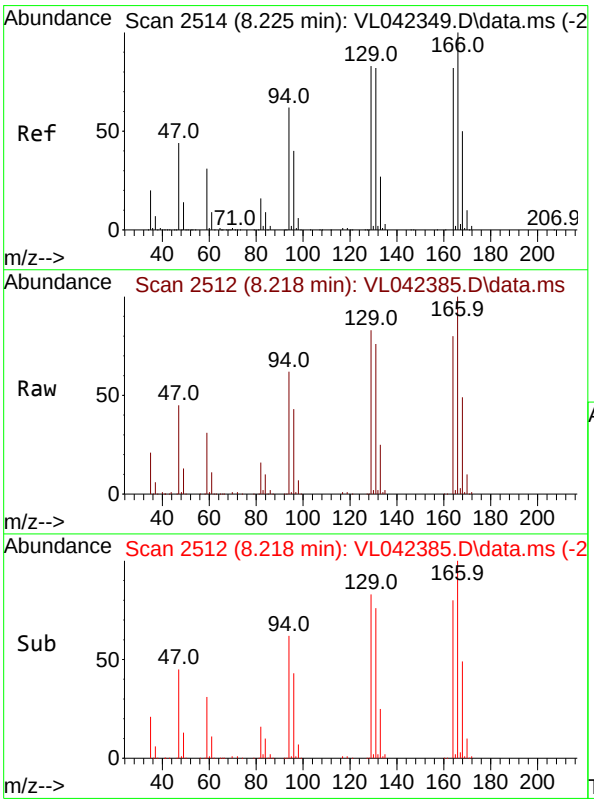
#51
2-Hexanone
Concen: 5.729 ppbv
RT: 7.432 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Instrument :
MSVOA_L
ClientSampleId :
VL0418ABS01

Tgt Ion: 43 Resp: 284839

Ion	Ratio	Lower	Upper
43	100		
58	48.9	40.2	60.4
98	0.1	0.1	0.1

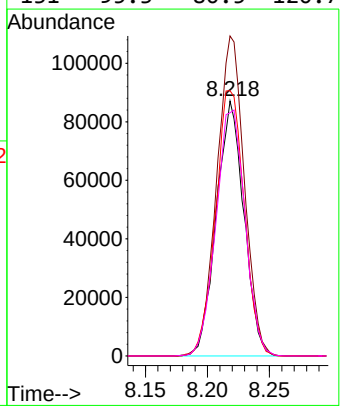


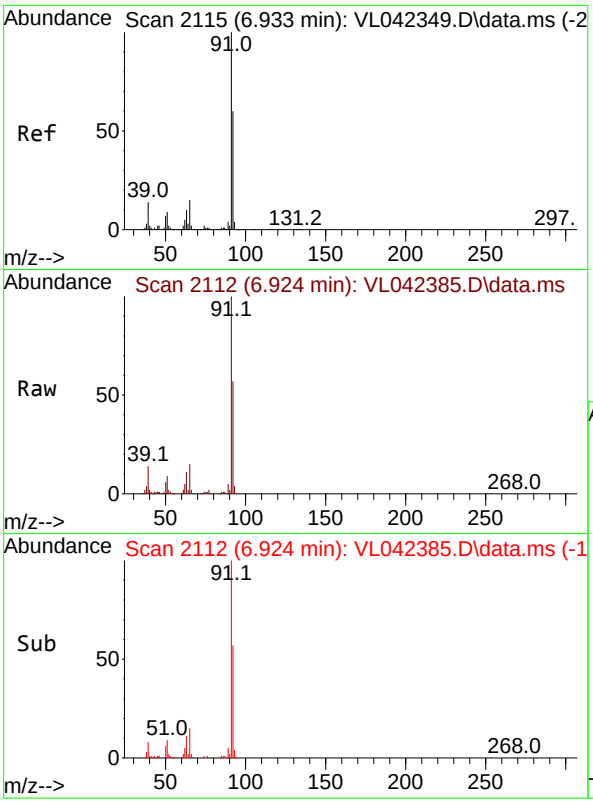


#52
Tetrachloroethene
Concen: 7.663 ppbv
RT: 8.218 min Scan# 2512
Delta R.T. -0.006 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Tgt Ion:164 Resp: 134768

Ion	Ratio	Lower	Upper
164	100		
166	125.6	98.2	147.2
129	104.1	81.8	122.8
131	95.3	80.5	120.7



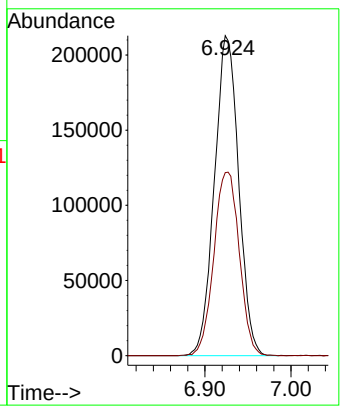


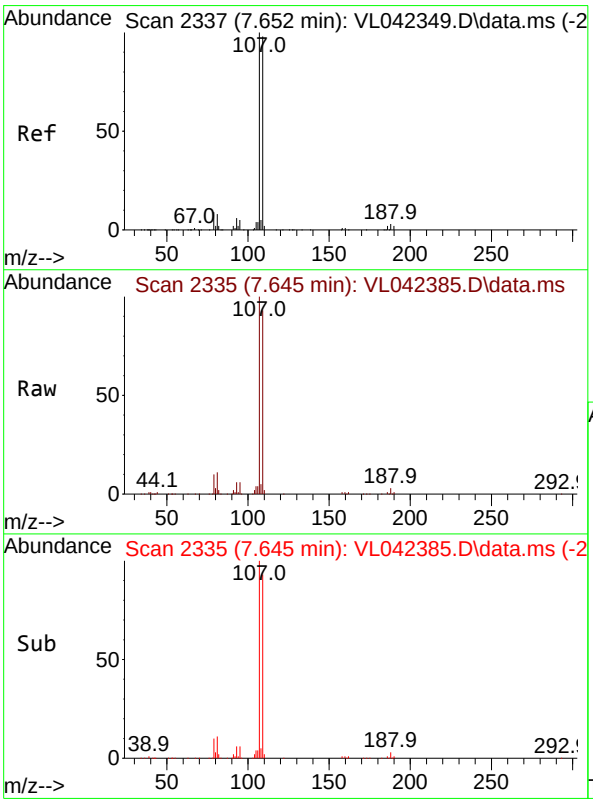
#53
Toluene
Concen: 7.627 ppbv
RT: 6.924 min Scan# 21
Delta R.T. -0.010 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Instrument :
MSVOA_L
ClientSampleId :
VL0418ABS01

Tgt Ion: 91 Resp: 416429

Ion	Ratio	Lower	Upper
91	100		
92	60.2	48.2	72.4

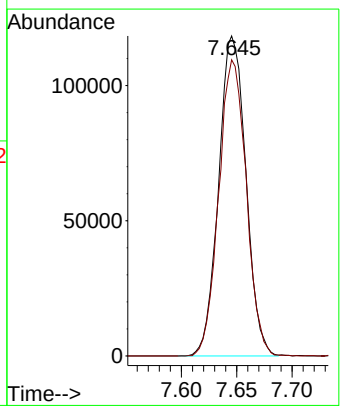


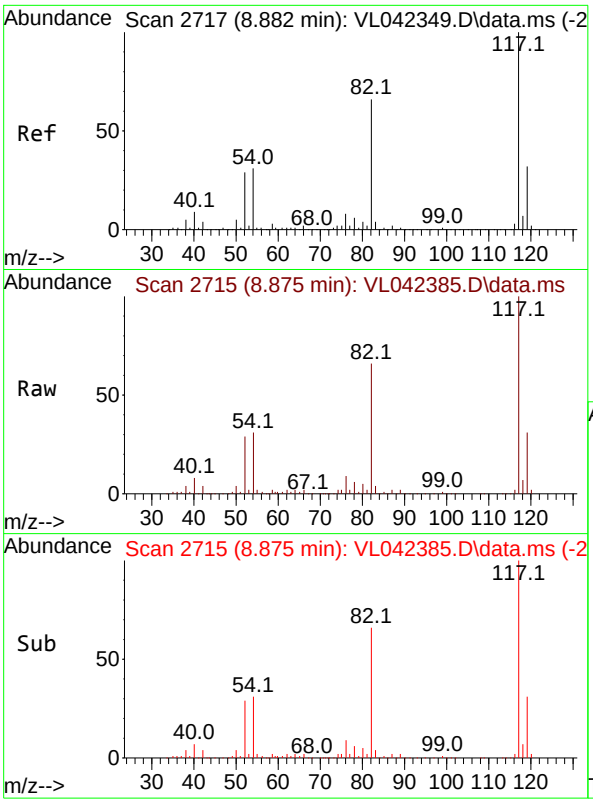


#54
1,2-Dibromoethane
Concen: 8.204 ppbv
RT: 7.645 min Scan# 2335
Delta R.T. -0.006 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Tgt Ion:107 Resp: 202809

Ion	Ratio	Lower	Upper
107	100		
109	92.5	78.2	117.4



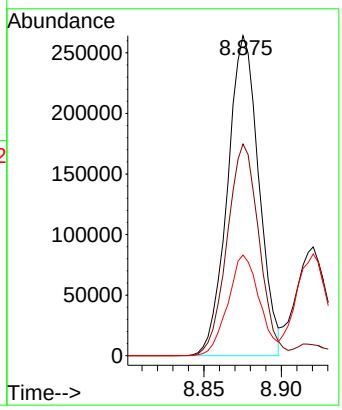


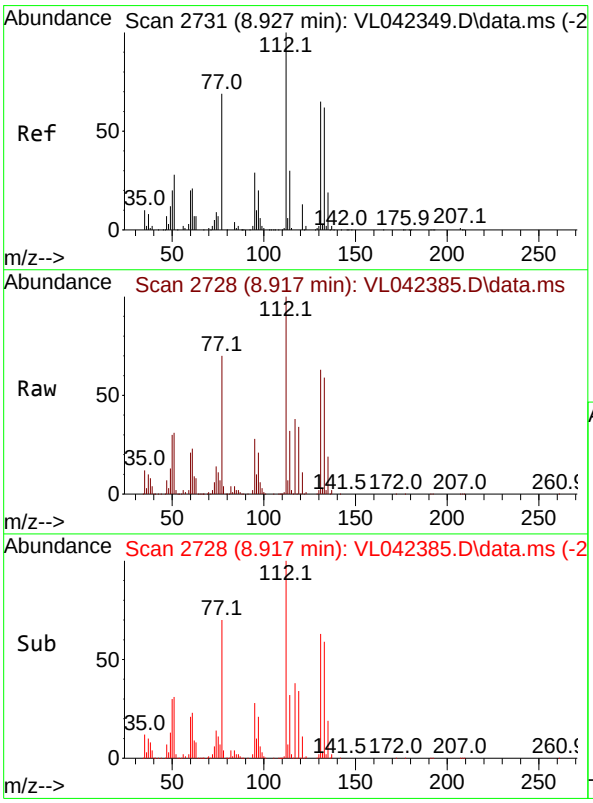
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 2
Delta R.T. -0.006 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Instrument :
MSVOA_L
ClientSampleId :
VL0418ABS01

Tgt Ion:117 Resp: 371546

Ion	Ratio	Lower	Upper
117	100		
82	71.0	57.8	86.6
119	32.7	25.2	37.8

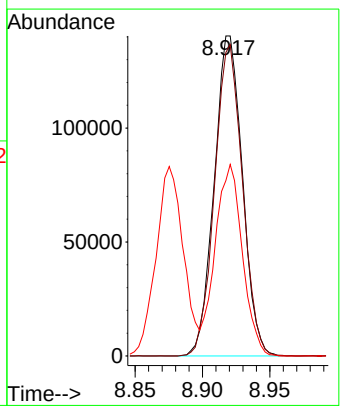


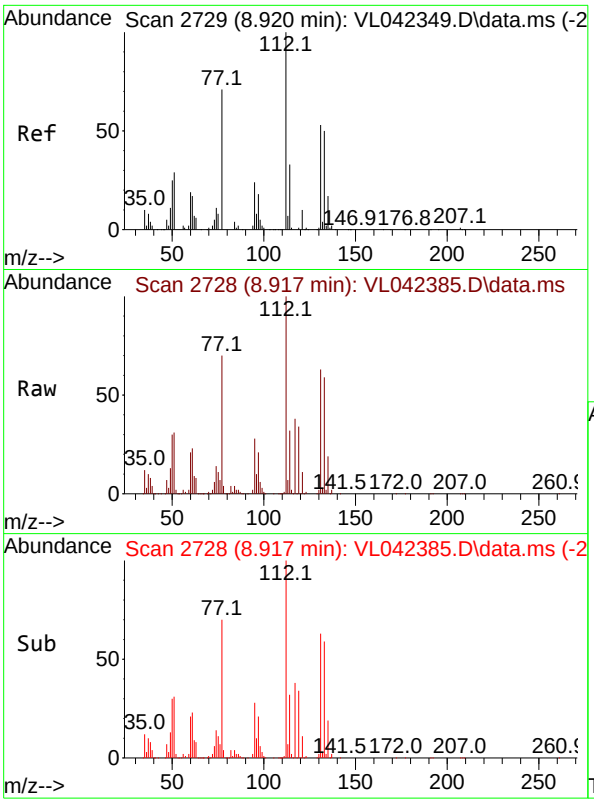


#56
1,1,1,2-Tetrachloroethane
Concen: 9.093 ppbv
RT: 8.917 min Scan# 2728
Delta R.T. -0.010 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Tgt Ion:131 Resp: 204475

Ion	Ratio	Lower	Upper
131	100		
133	96.1	78.3	117.5
119	57.8	48.7	73.1



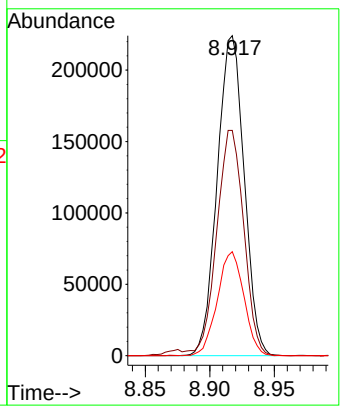


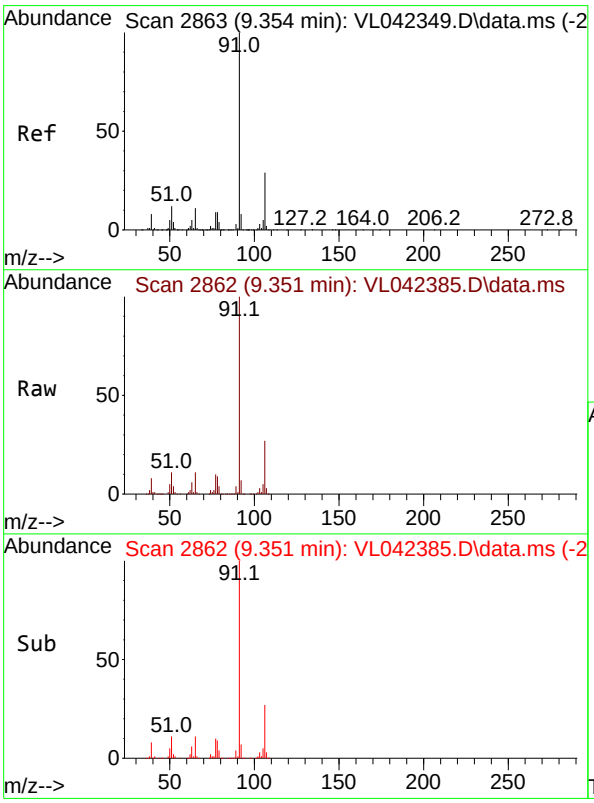
#57
Chlorobenzene
Concen: 8.438 ppbv
RT: 8.917 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Instrument :
MSVOA_L
ClientSampleId :
VL0418ABS01

Tgt Ion:112 Resp: 326071

Ion	Ratio	Lower	Upper
112	100		
77	70.2	57.8	86.6
114	32.5	29.3	35.9

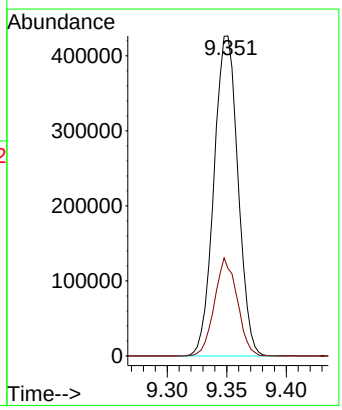


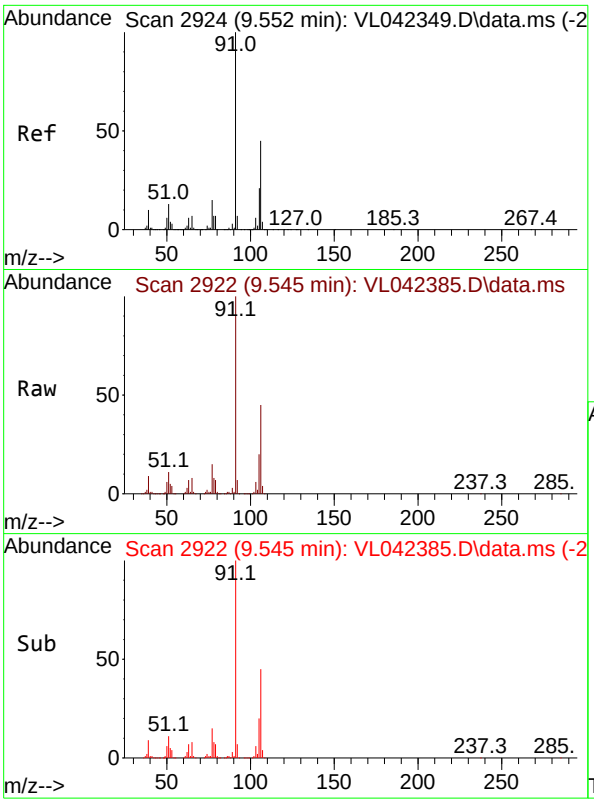


#58
Ethyl Benzene
Concen: 8.117 ppbv
RT: 9.351 min Scan# 2862
Delta R.T. -0.003 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Tgt Ion: 91 Resp: 597552

Ion	Ratio	Lower	Upper
91	100		
106	27.3	23.0	34.4



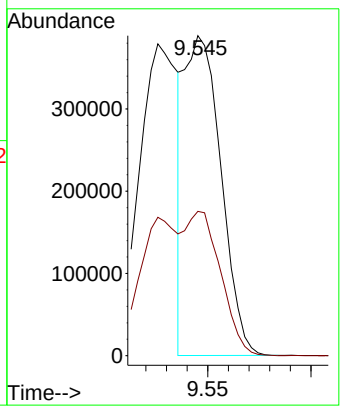


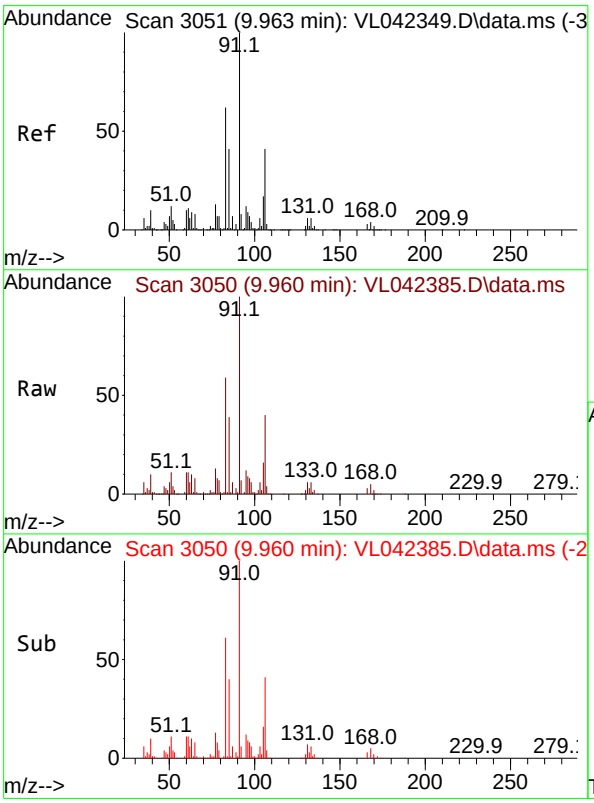
#59
m/p-Xylene
Concen: 8.060 ppbv
RT: 9.545 min Scan# 2
Delta R.T. -0.006 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Instrument :
MSVOA_L
ClientSampleId :
VL0418ABS01

Tgt Ion: 91 Resp: 477953

Ion	Ratio	Lower	Upper
91	100		
106	90.1	35.4	53.2#

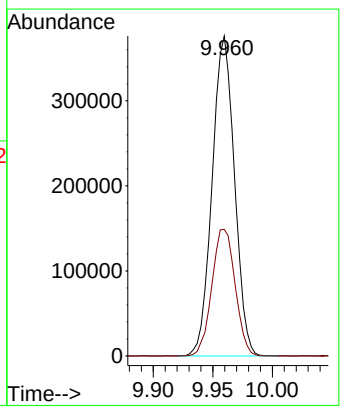


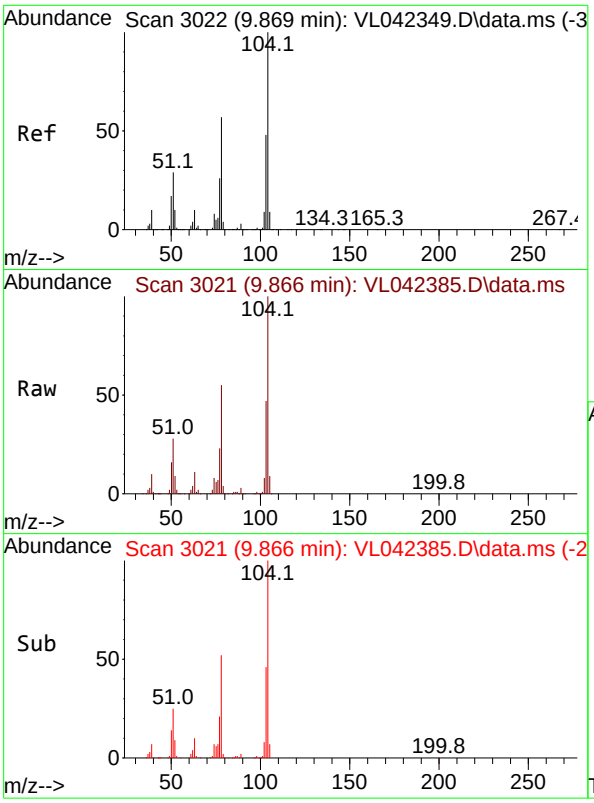


#60
o-Xylene
Concen: 8.203 ppbv
RT: 9.960 min Scan# 3050
Delta R.T. -0.003 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Tgt Ion: 91 Resp: 489890

Ion	Ratio	Lower	Upper
91	100		
106	41.3	21.1	63.4



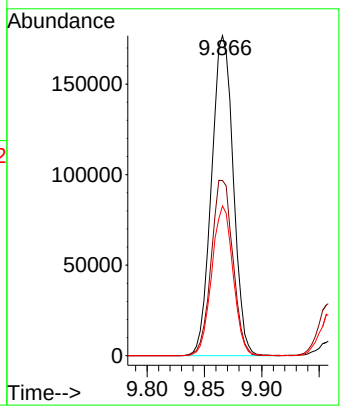


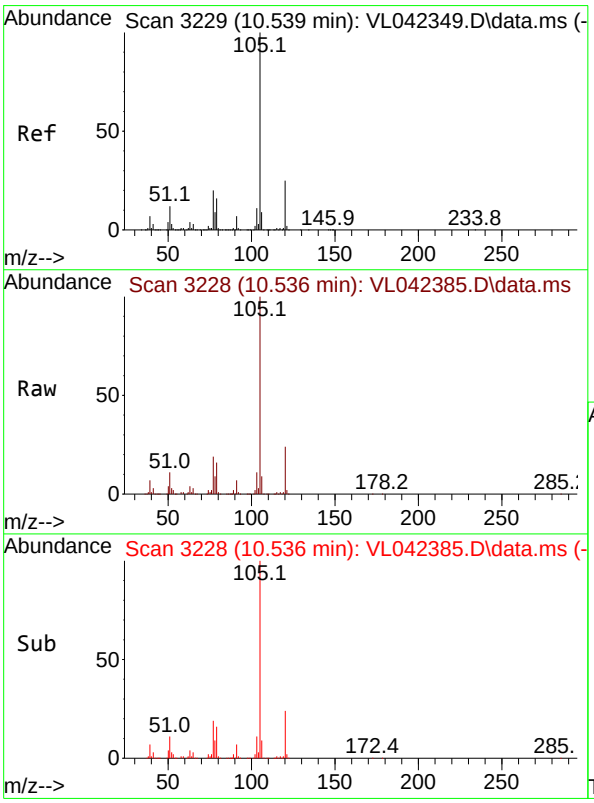
#61
Styrene
Concen: 8.173 ppbv
RT: 9.866 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Instrument :
MSVOA_L
ClientSampleId :
VL0418ABS01

Tgt Ion:104 Resp: 232960

Ion	Ratio	Lower	Upper
104	100		
78	54.7	44.6	66.8
103	45.8	37.4	56.0

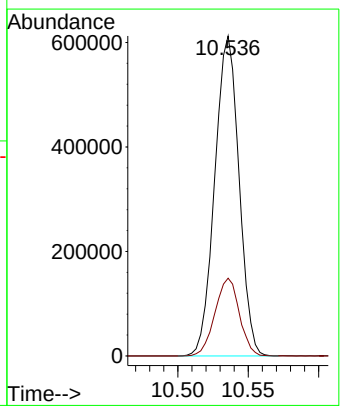


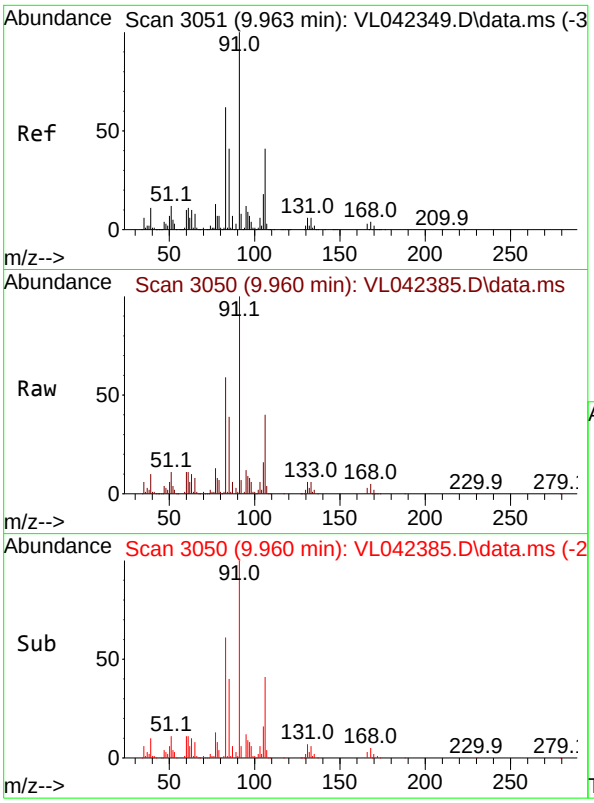


#62
Isopropylbenzene
Concen: 8.376 ppbv
RT: 10.536 min Scan# 3228
Delta R.T. -0.003 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Tgt Ion:105 Resp: 734342

Ion	Ratio	Lower	Upper
105	100		
120	24.4	19.8	29.8



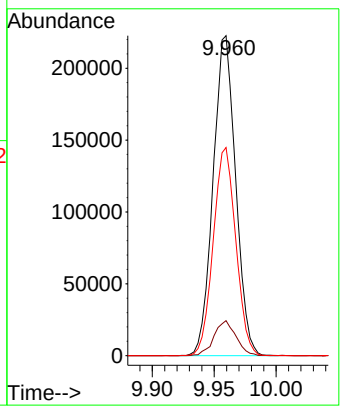


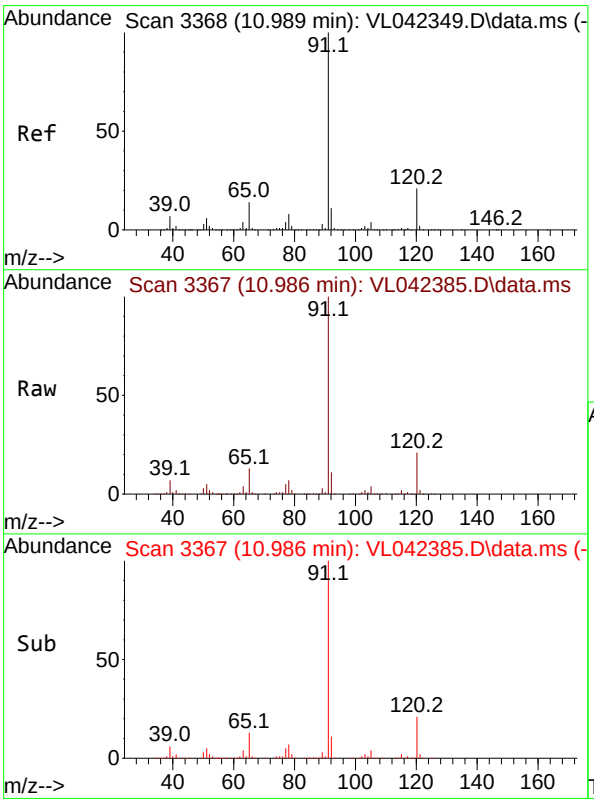
#63
1,1,2,2-Tetrachloroethane
Concen: 7.298 ppbv
RT: 9.960 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Instrument :
MSVOA_L
ClientSampleId :
VL0418ABS01

Tgt Ion: 83 Resp: 282429

Ion	Ratio	Lower	Upper
83	100		
131	10.7	4.5	13.7
85	65.1	32.4	97.0

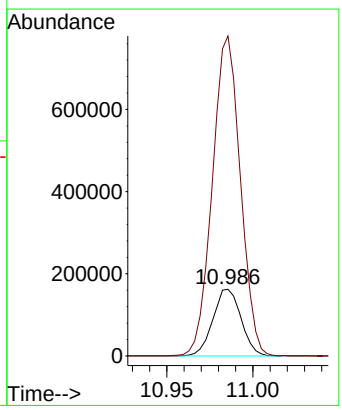


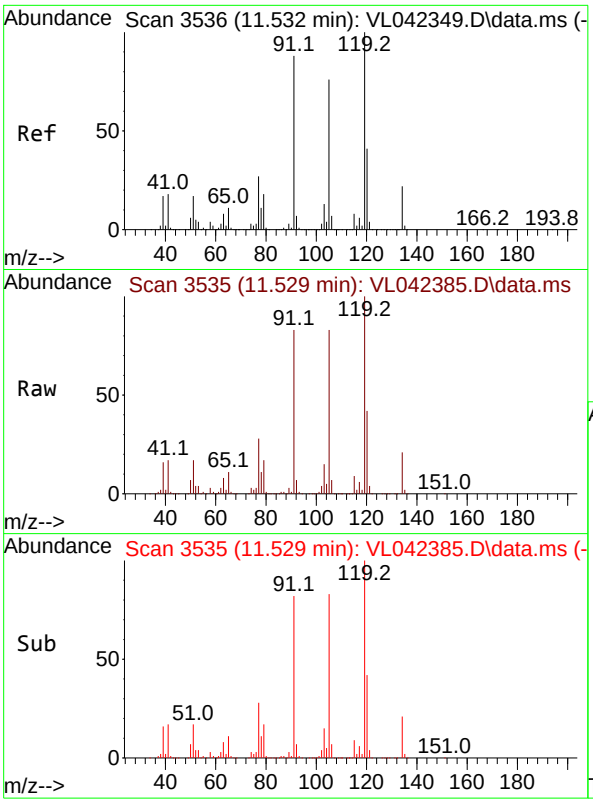


#64
n-propylbenzene
Concen: 8.383 ppbv
RT: 10.986 min Scan# 3367
Delta R.T. -0.003 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Tgt Ion:120 Resp: 184746

Ion	Ratio	Lower	Upper
120	100		
91	478.4	392.4	588.6



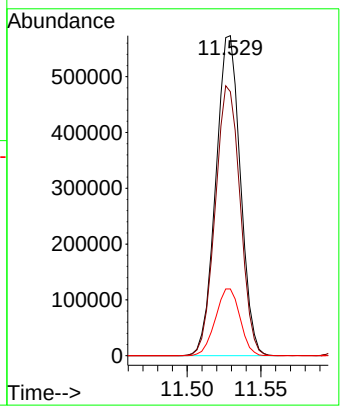


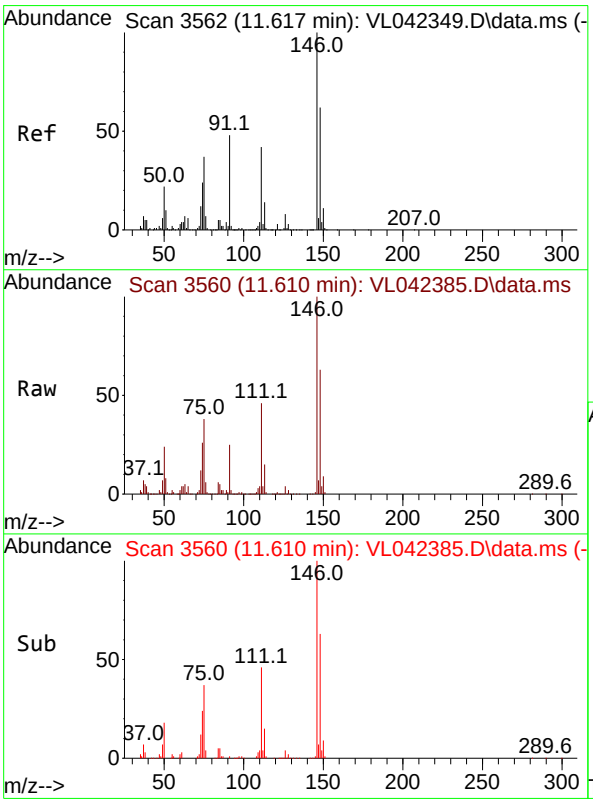
#65
tert-Butylbenzene
Concen: 8.256 ppbv
RT: 11.529 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Instrument :
MSVOA_L
ClientSampleId :
VL0418ABS01

Tgt Ion:119 Resp: 665320

Ion	Ratio	Lower	Upper
119	100		
91	85.3	74.6	111.8
134	20.9	18.8	28.2

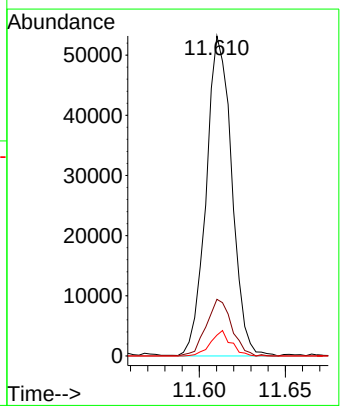


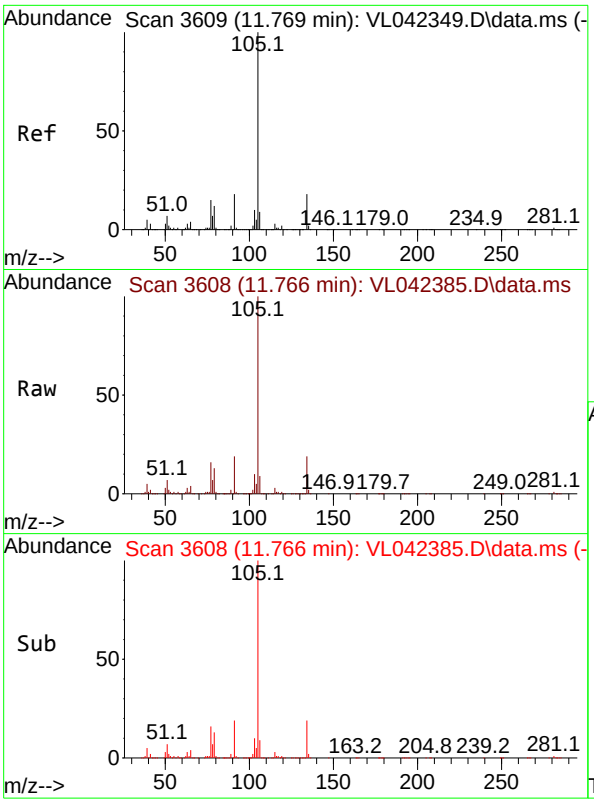


#66
Benzyl Chloride
Concen: 6.223 ppbv
RT: 11.610 min Scan# 3560
Delta R.T. -0.006 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Tgt Ion: 91 Resp: 55103

Ion	Ratio	Lower	Upper
91	100		
126	17.5	11.8	17.6
128	6.3	4.5	6.7



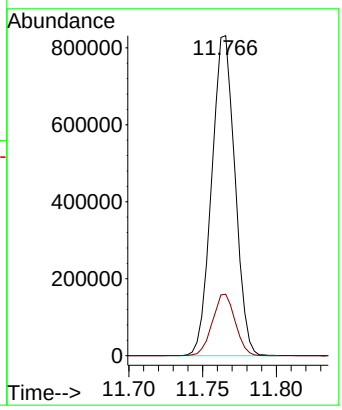


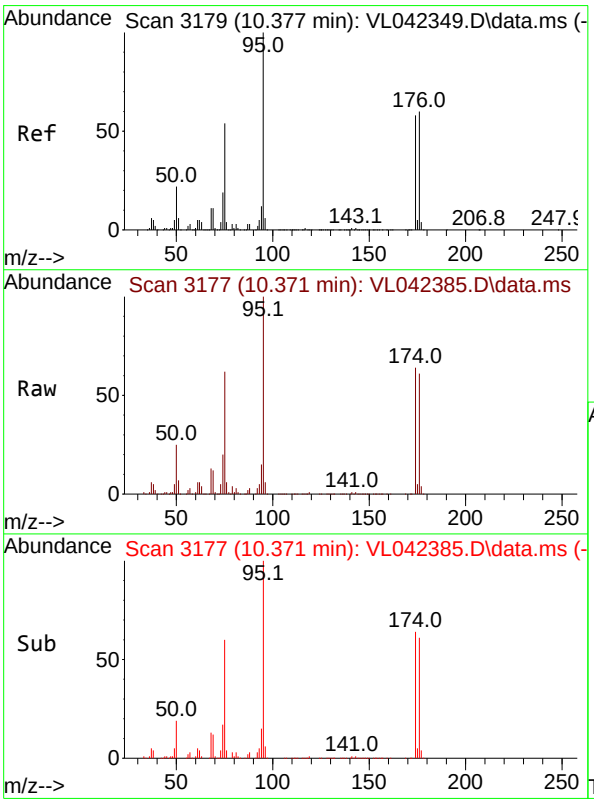
#67
sec-Butylbenzene
Concen: 8.129 ppbv
RT: 11.766 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Instrument :
MSVOA_L
ClientSampleId :
VL0418ABS01

Tgt Ion:105 Resp: 911164

Ion	Ratio	Lower	Upper
105	100		
134	18.9	14.6	21.8

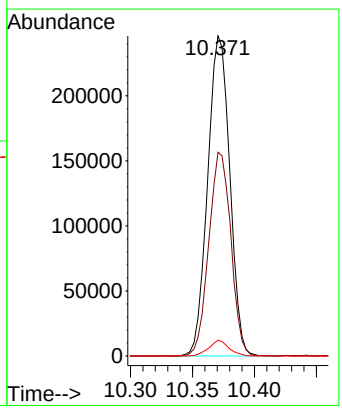


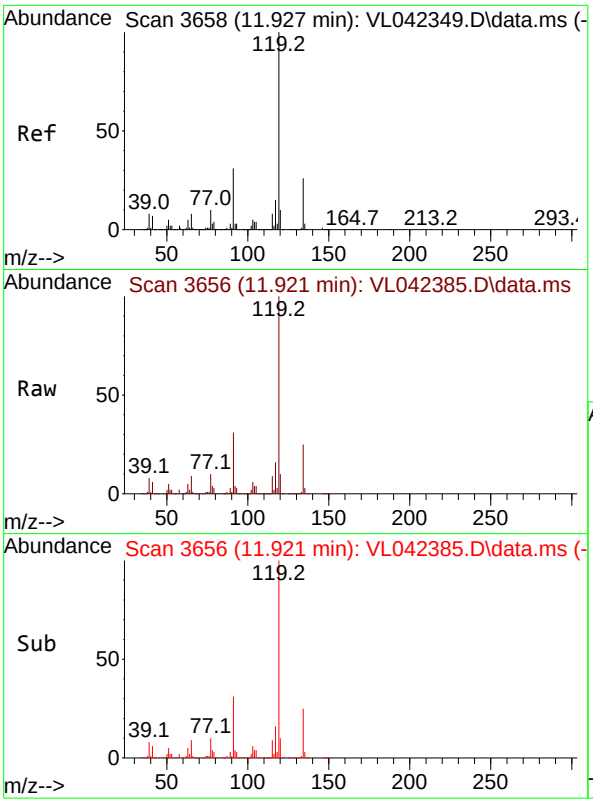


#68
1-Bromo-4-Fluorobenzene
Concen: 10.024 ppbv
RT: 10.371 min Scan# 3177
Delta R.T. -0.006 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Tgt Ion: 95 Resp: 306062

Ion	Ratio	Lower	Upper
95	100		
174	63.5	48.5	72.7
175	4.4	3.7	5.5



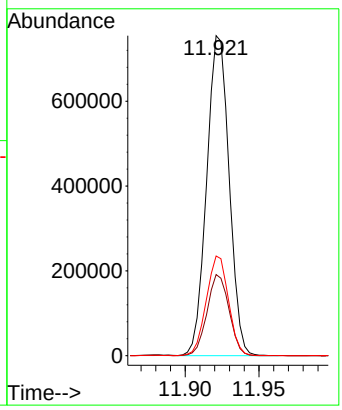


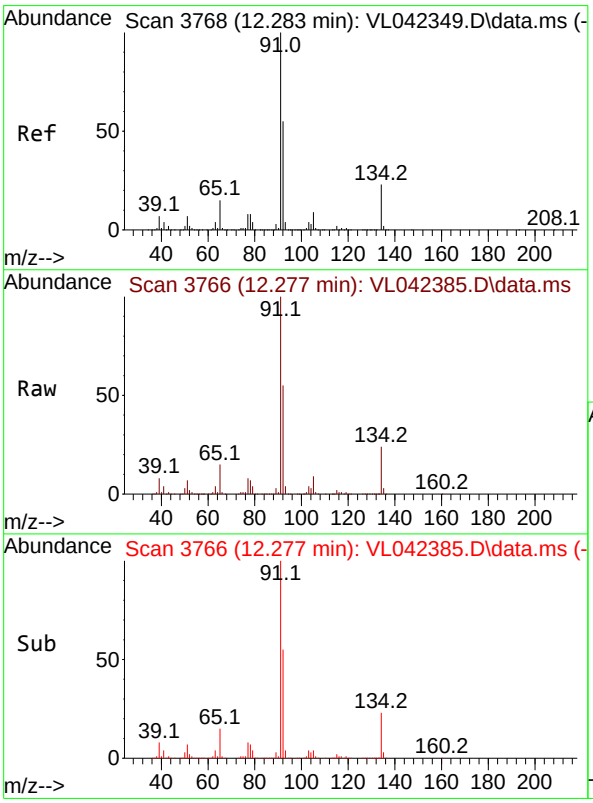
#69
p-Isopropyltoluene
Concen: 8.209 ppbv
RT: 11.921 min Scan# 3
Delta R.T. -0.006 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Instrument :
MSVOA_L
ClientSampleId :
VL0418ABS01

Tgt Ion:119 Resp: 799331

Ion	Ratio	Lower	Upper
119	100		
134	24.9	20.0	30.0
91	30.9	24.4	36.6

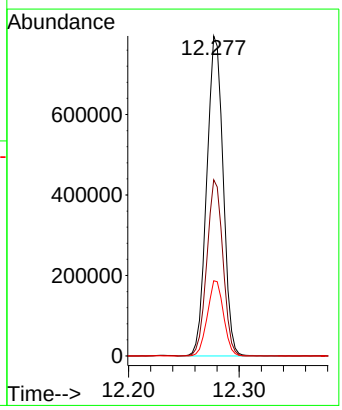


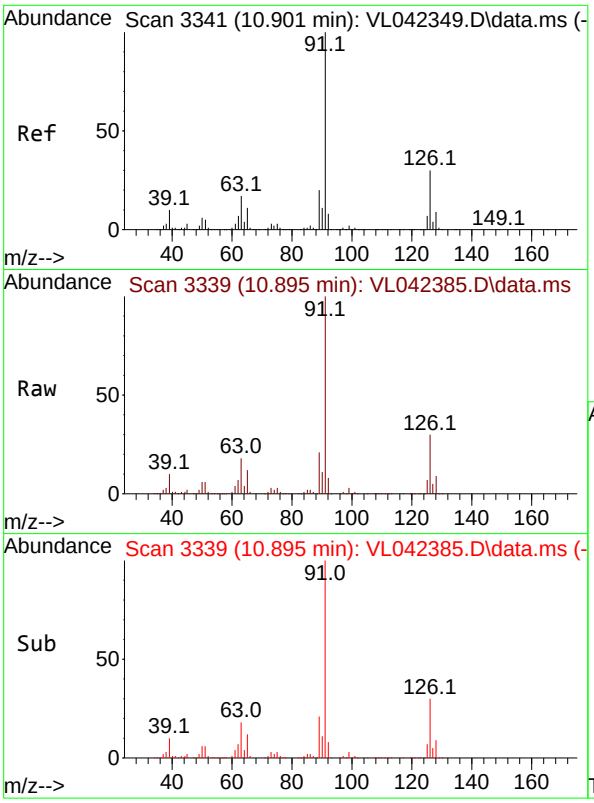


#70
n-Butylbenzene
Concen: 8.061 ppbv
RT: 12.277 min Scan# 3766
Delta R.T. -0.006 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Tgt Ion: 91 Resp: 817538

Ion	Ratio	Lower	Upper
91	100		
92	54.4	44.2	66.4
134	23.2	18.2	27.4



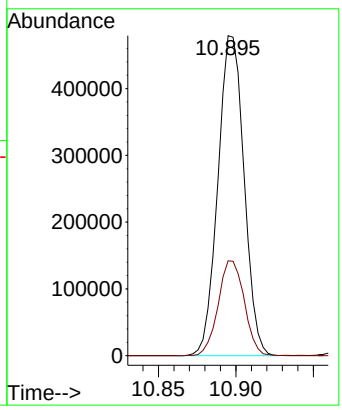


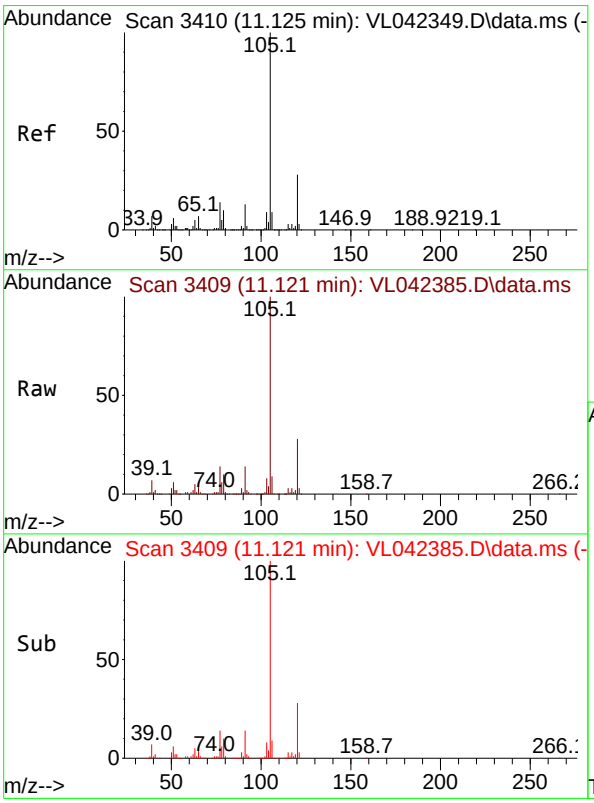
#71
2-Chlorotoluene
Concen: 8.180 ppbv
RT: 10.895 min Scan# 3
Delta R.T. -0.006 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Instrument :
MSVOA_L
ClientSampleId :
VL0418ABS01

Tgt Ion: 91 Resp: 562487

Ion	Ratio	Lower	Upper
91	100		
126	29.6	11.4	45.4

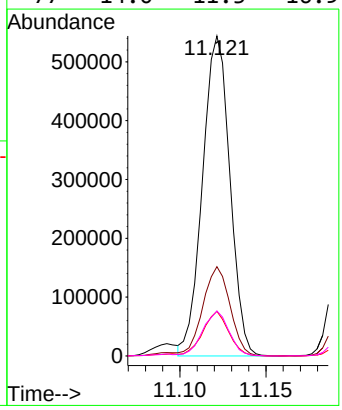


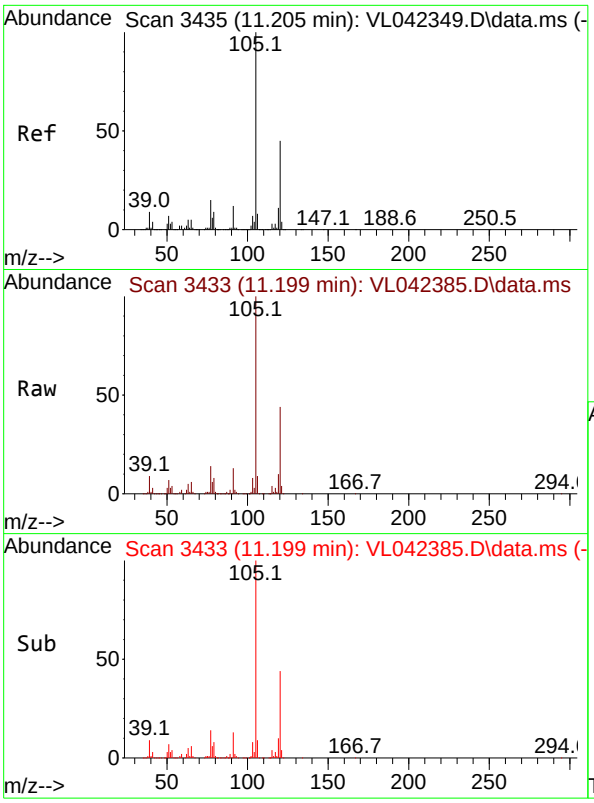


#72
4-Ethyltoluene
Concen: 8.256 ppbv
RT: 11.121 min Scan# 3409
Delta R.T. -0.003 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Tgt Ion:105 Resp: 602711

Ion	Ratio	Lower	Upper
105	100		
120	28.7	23.2	34.8
91	13.8	10.4	15.6
77	14.0	11.3	16.9



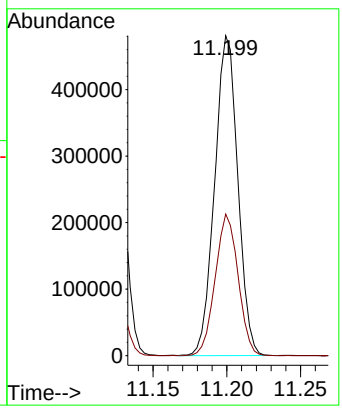


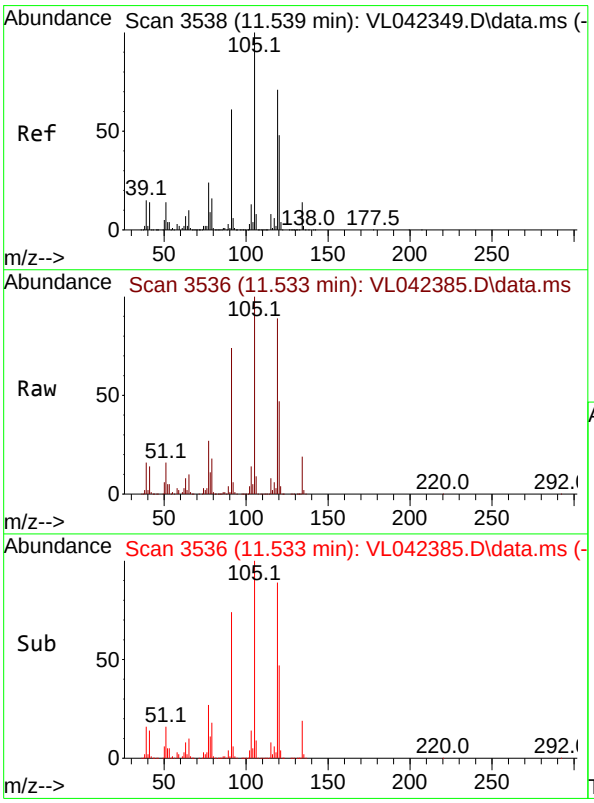
#73
1,3,5-Trimethylbenzene
Concen: 8.135 ppbv
RT: 11.199 min Scan# 34
Delta R.T. -0.006 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Instrument :
MSVOA_L
ClientSampleId :
VL0418ABS01

Tgt Ion:105 Resp: 524369

Ion	Ratio	Lower	Upper
105	100		
120	44.3	35.6	53.4

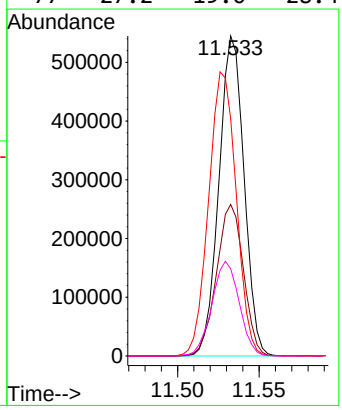


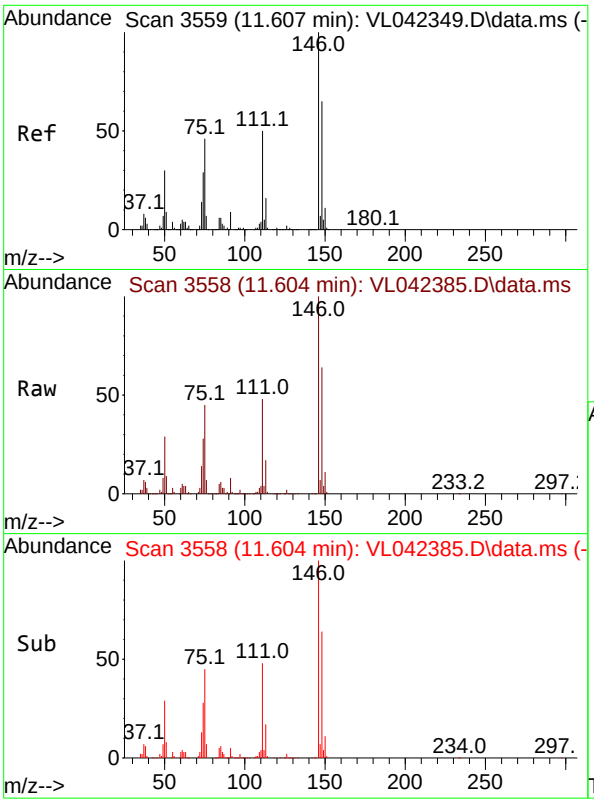


#74
1,2,4-Trimethylbenzene
Concen: 7.749 ppbv
RT: 11.533 min Scan# 3536
Delta R.T. -0.006 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Tgt Ion:105 Resp: 583351

Ion	Ratio	Lower	Upper
105	100		
120	47.3	38.1	57.1
91	74.1	48.8	73.2#
77	27.2	19.0	28.4



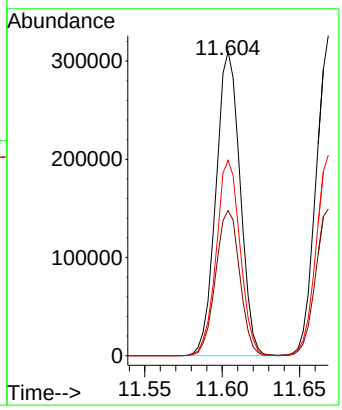


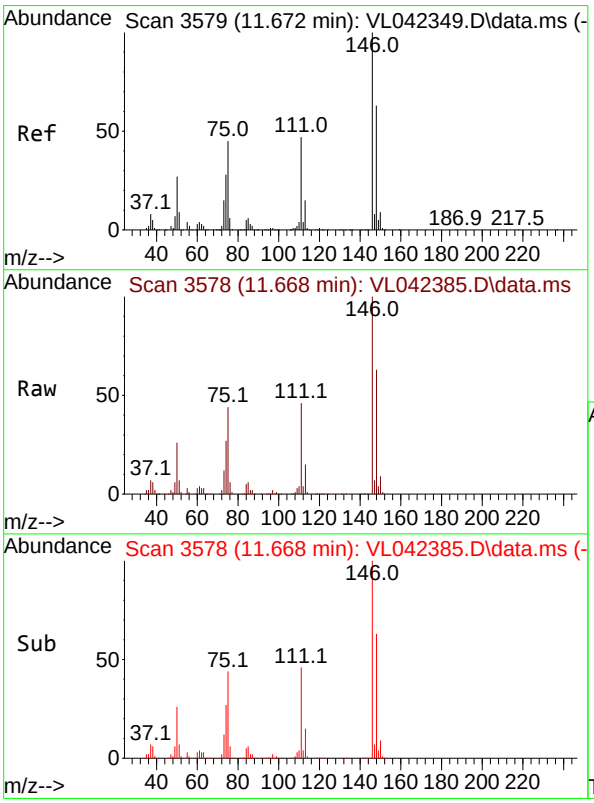
#75
1,3-Dichlorobenzene
Concen: 8.575 ppbv
RT: 11.604 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Instrument :
MSVOA_L
ClientSampleId :
VL0418ABS01

Tgt Ion:146 Resp: 335533

Ion	Ratio	Lower	Upper
146	100		
111	47.8	24.3	72.8
148	63.5	31.6	94.8

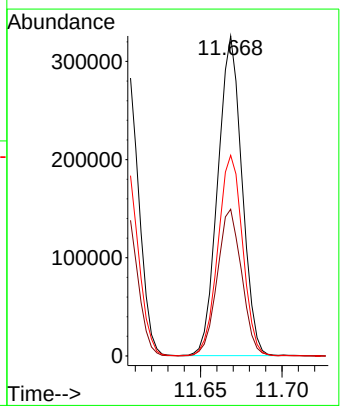


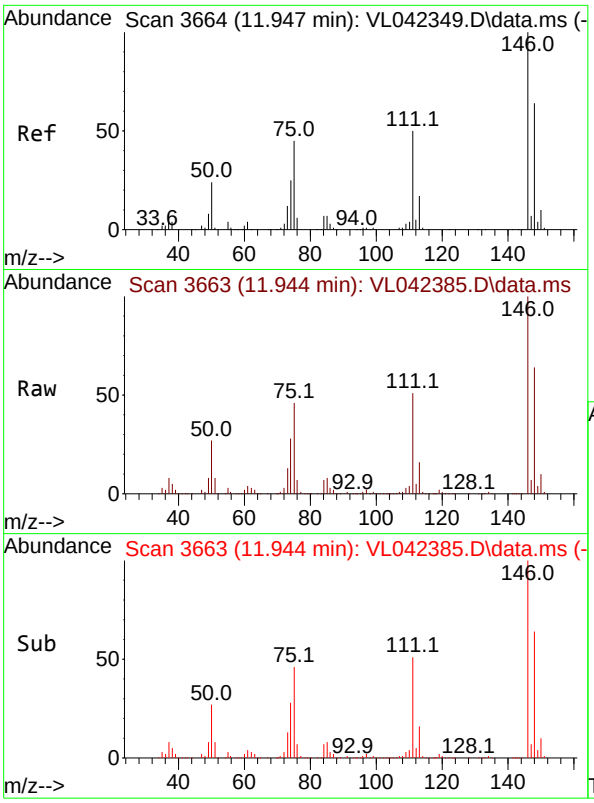


#76
1,4-Dichlorobenzene
Concen: 8.520 ppbv
RT: 11.668 min Scan# 3578
Delta R.T. -0.003 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Tgt Ion:146 Resp: 335101

Ion	Ratio	Lower	Upper
146	100		
111	46.5	24.2	72.6
148	64.2	32.1	96.5



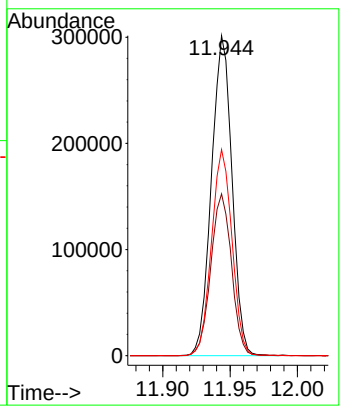


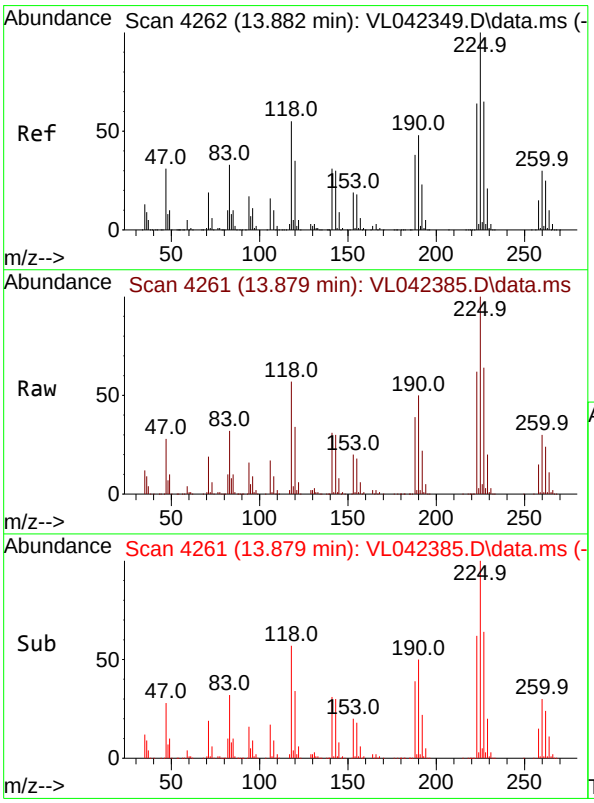
#77
1,2-Dichlorobenzene
Concen: 8.396 ppbv
RT: 11.944 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Instrument :
MSVOA_L
ClientSampleId :
VL0418ABS01

Tgt Ion:146 Resp: 319466

Ion	Ratio	Lower	Upper
146	100		
111	51.0	25.3	75.9
148	64.3	31.5	94.5

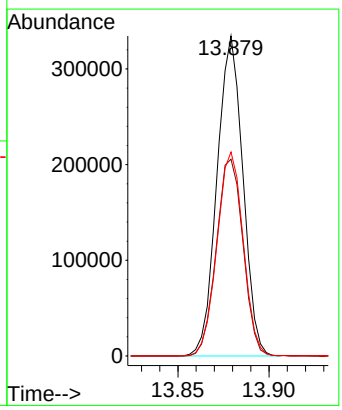


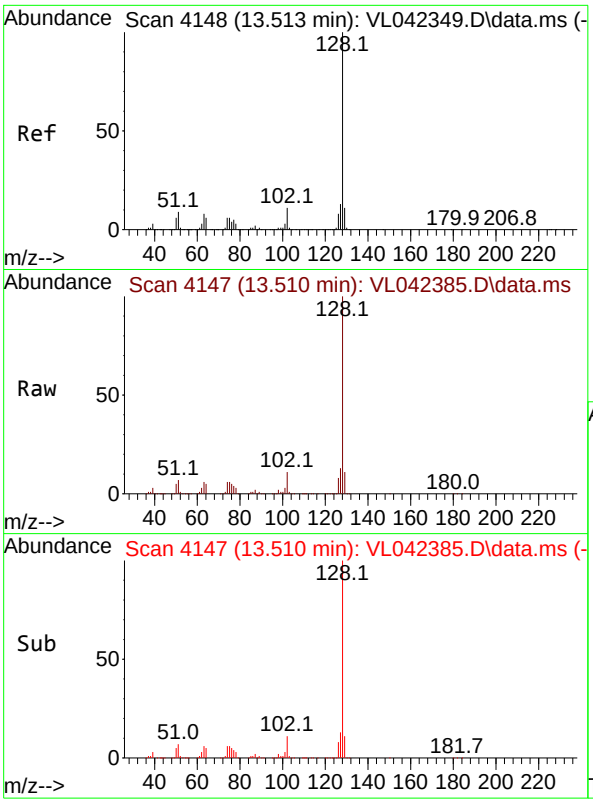


#78
Hexachloro-1,3-Butadiene
Concen: 8.584 ppbv
RT: 13.879 min Scan# 4261
Delta R.T. -0.003 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Tgt Ion:225 Resp: 329813

Ion	Ratio	Lower	Upper
225	100		
223	63.6	50.3	75.5
227	64.6	51.5	77.3



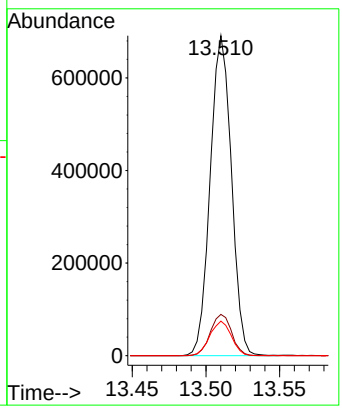


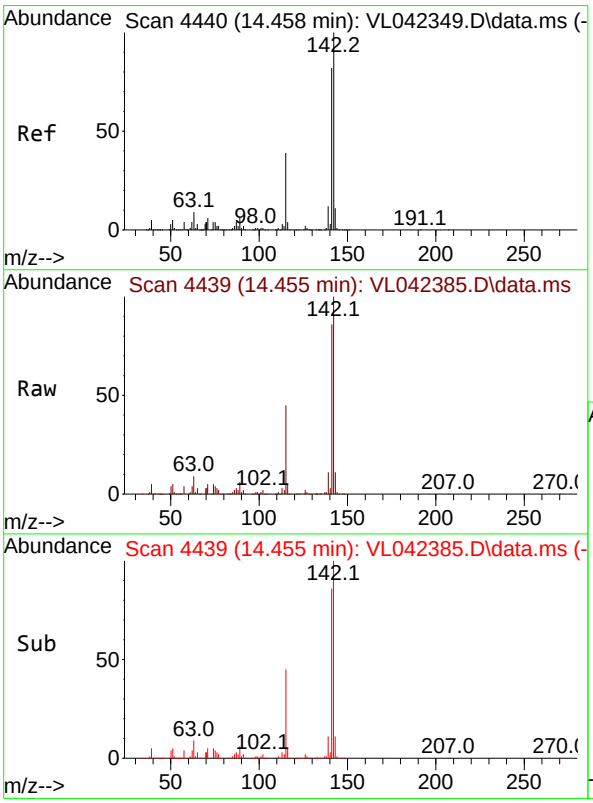
#79
Naphthalene
Concen: 7.676 ppbv
RT: 13.510 min Scan# 41
Delta R.T. -0.003 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Instrument :
MSVOA_L
ClientSampleId :
VL0418ABS01

Tgt Ion:128 Resp: 691058

Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.6	15.8
129	10.8	8.6	12.8

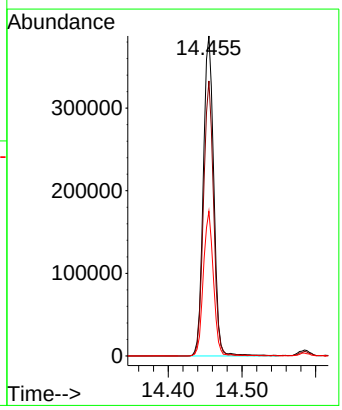


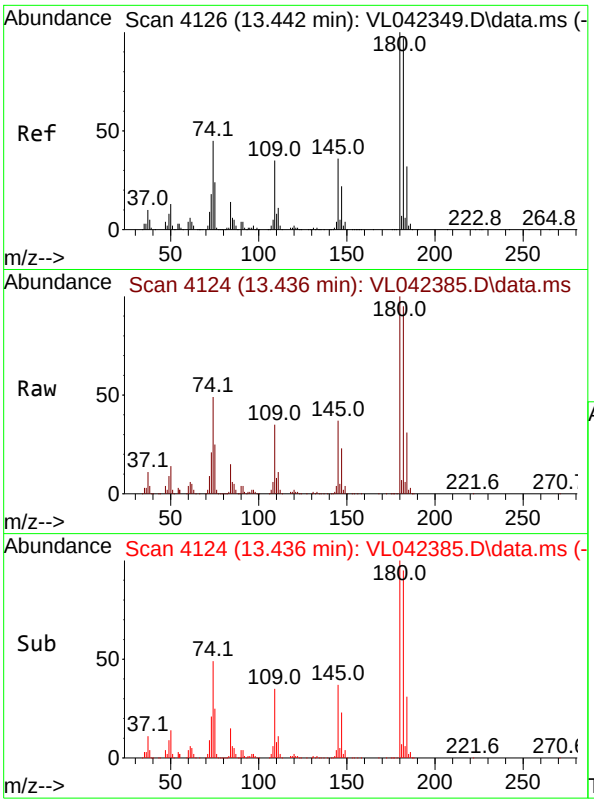


#80
Naphthalene,2-methyl-
Concen: 7.407 ppbv
RT: 14.455 min Scan# 4439
Delta R.T. -0.003 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Tgt Ion:142 Resp: 380016

Ion	Ratio	Lower	Upper
142	100		
141	83.9	66.8	100.2
115	43.9	33.4	50.2



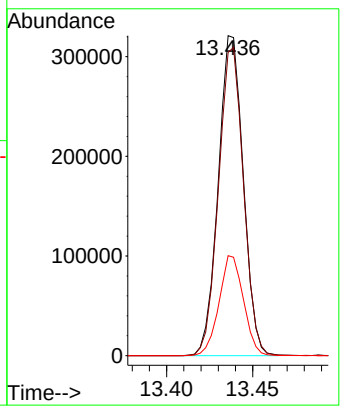


#81
1,2,4-Trichlorobenzene
Concen: 8.408 ppbv
RT: 13.436 min Scan# 4
Delta R.T. -0.006 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Instrument :
MSVOA_L
ClientSampleId :
VL0418ABS01

Tgt Ion:180 Resp: 325017

Ion	Ratio	Lower	Upper
180	100		
182	96.1	76.8	115.2
184	30.5	24.6	36.8



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041825\
Data File : VL042386.D
Acq On : 18 Apr 2025 12:09
Operator : SY/MD
Sample : Q1726-07DL2 40X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025DL2

Quant Time: Apr 18 22:57:29 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

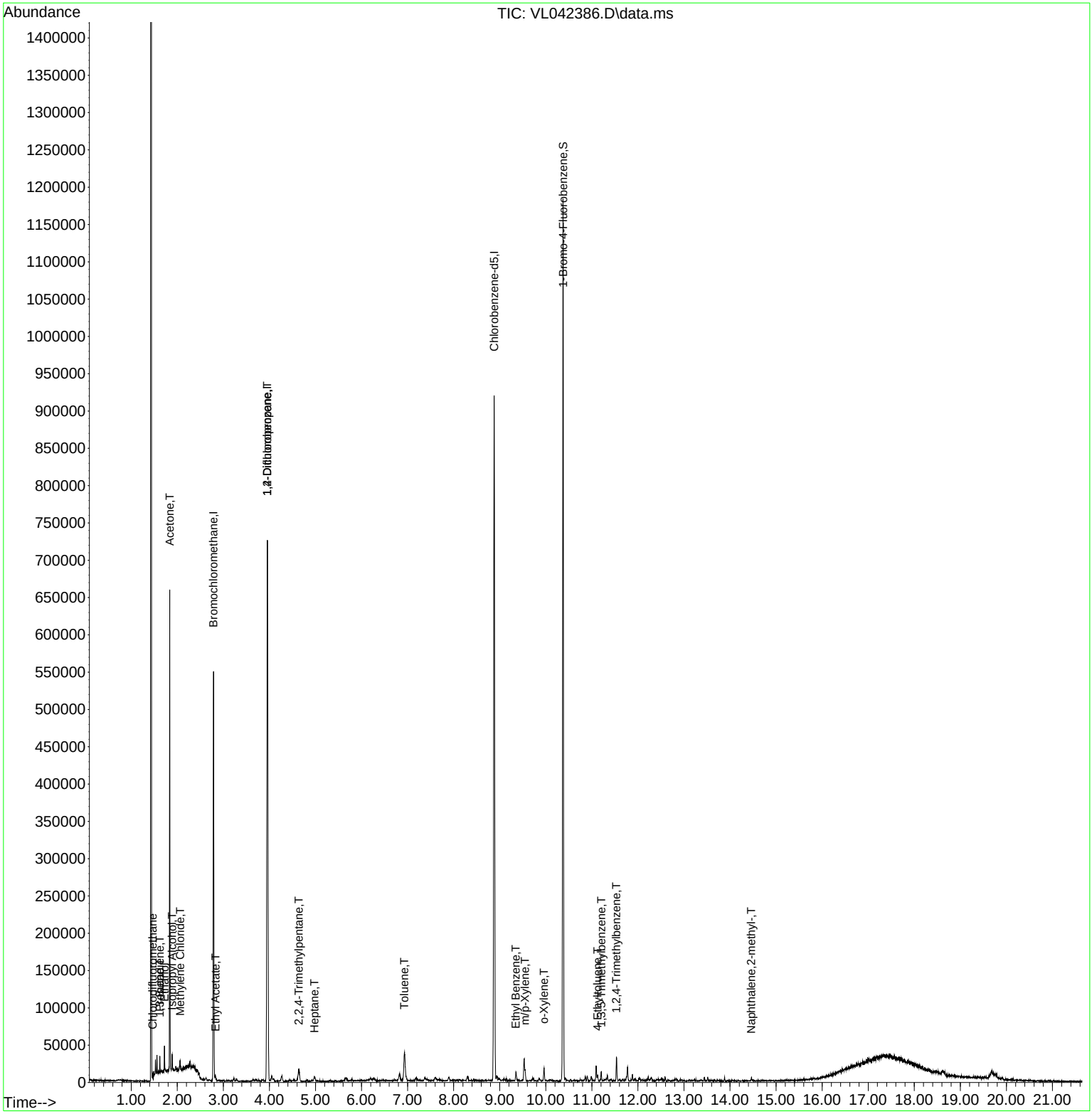
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.787	49	137576	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.955	114	424572	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.878	117	368674	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	298684	9.859	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 98.600%			
Target Compounds						Qvalue
3) Chlorodifluoromethane	1.466	51	1868	0.081	ppbv #	80
9) Propene	1.622	41	2578	0.245	ppbv	99
10) Heptane	4.975	43	1295	0.044	ppbv #	50
13) Ethanol	1.722	45	11275	6.730	ppbv	79
15) Acetone	1.835	43	264945	11.764	ppbv	100
16) 1,3-Butadiene	1.619	39	1405	0.130	ppbv #	9
19) Isopropyl Alcohol	1.887	45	9262	0.740	ppbv #	1
20) Methylene Chloride	2.062	84	1558	0.177	ppbv #	68
25) Ethyl Acetate	2.829	43	1871	0.034	ppbv #	70
39) 1,2-Dichloropropane	3.955	63	107583	6.304	ppbv #	23
44) 2,2,4-Trimethylpentane	4.638	57	14250	0.180	ppbv #	88
53) Toluene	6.930	91	17493	0.318	ppbv #	59
58) Ethyl Benzene	9.348	91	4601	0.063	ppbv	99
59) m/p-Xylene	9.548	91	3739	0.064	ppbv #	32
60) o-Xylene	9.963	91	6838	0.115	ppbv	94
72) 4-Ethyltoluene	11.125	105	3430	0.047	ppbv #	63
73) 1,3,5-Trimethylbenzene	11.206	105	4008	0.063	ppbv #	73
74) 1,2,4-Trimethylbenzene	11.532	105	11571	0.155	ppbv #	61
80) Naphthalene,2-methyl-	14.462	142	1553	0.031	ppbv #	71

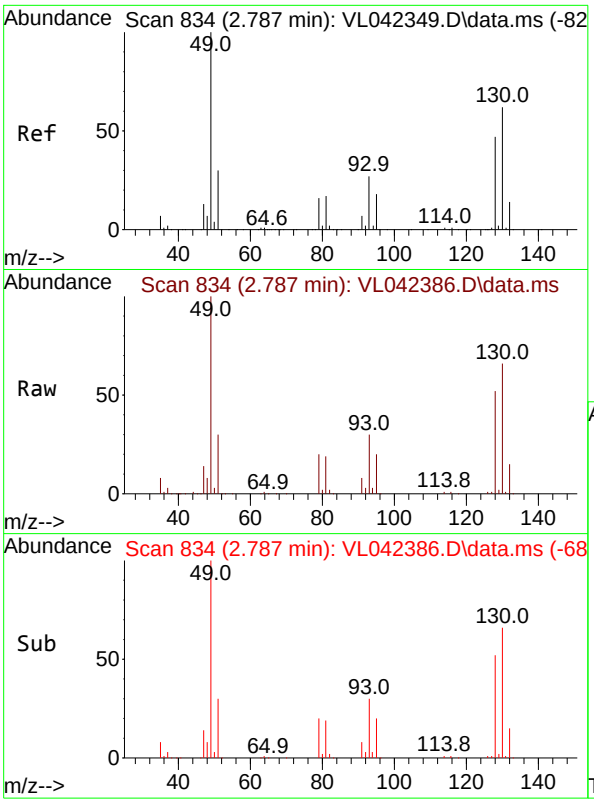
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041825\
Data File : VL042386.D
Acq On : 18 Apr 2025 12:09
Operator : SY/MD
Sample : Q1726-07DL2 40X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025DL2

Quant Time: Apr 18 22:57:29 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



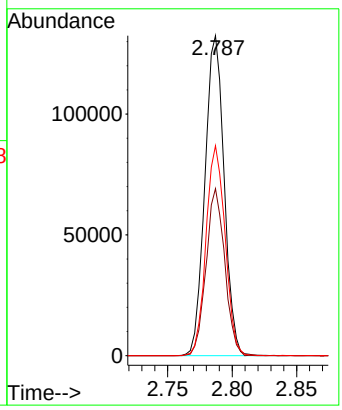


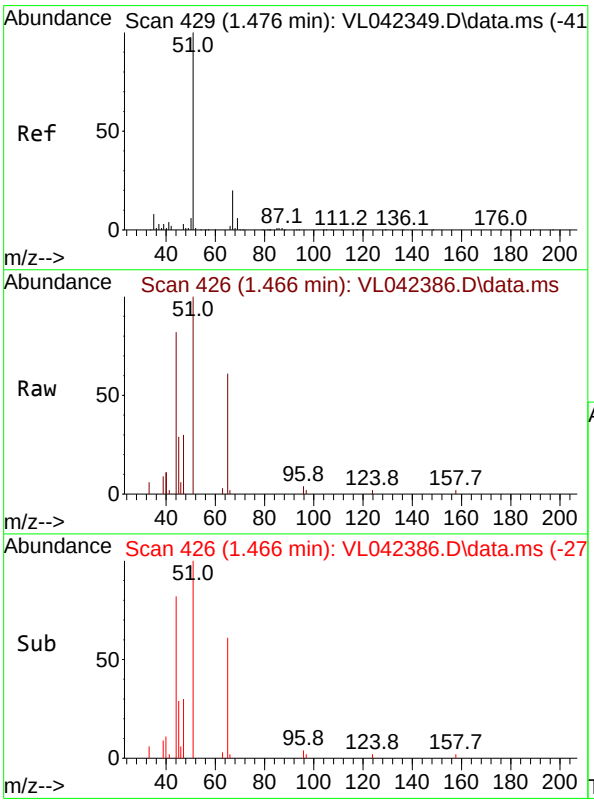
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 8
Delta R.T. 0.000 min
Lab File: VL042386.D
Acq: 18 Apr 2025 12:09

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025DL2

Tgt Ion: 49 Resp: 137576

Ion	Ratio	Lower	Upper
49	100		
128	50.8	22.8	68.4
130	65.1	29.3	88.0

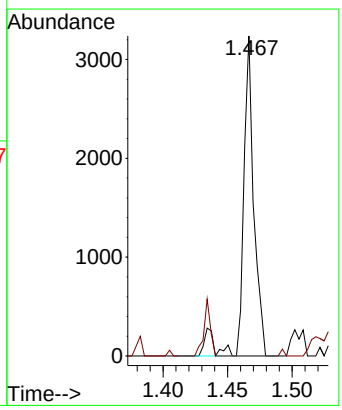


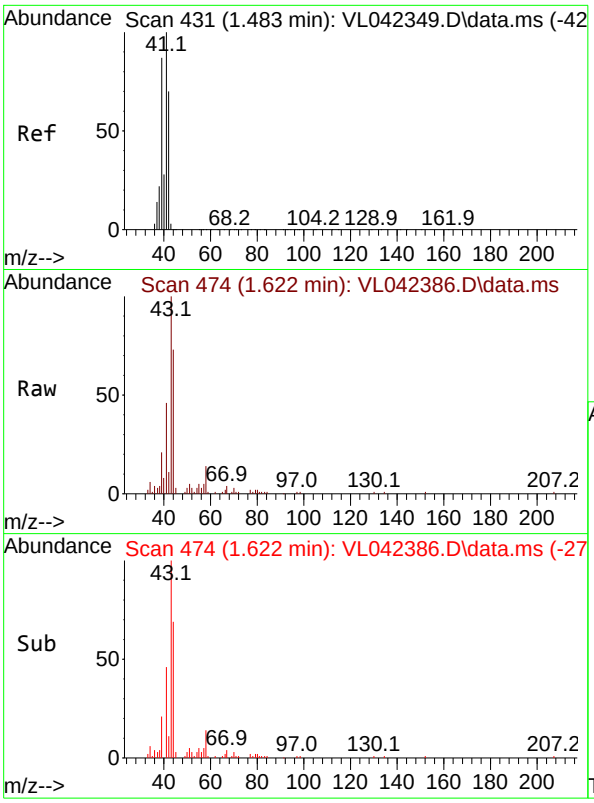


#3
Chlorodifluoromethane
Concen: 0.081 ppbv
RT: 1.466 min Scan# 426
Delta R.T. -0.010 min
Lab File: VL042386.D
Acq: 18 Apr 2025 12:09

Tgt Ion: 51 Resp: 1868

Ion	Ratio	Lower	Upper
51	100		
67	11.0	16.2	24.4#



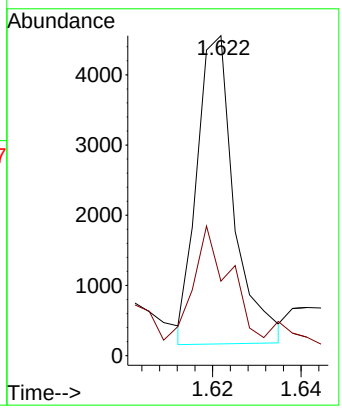


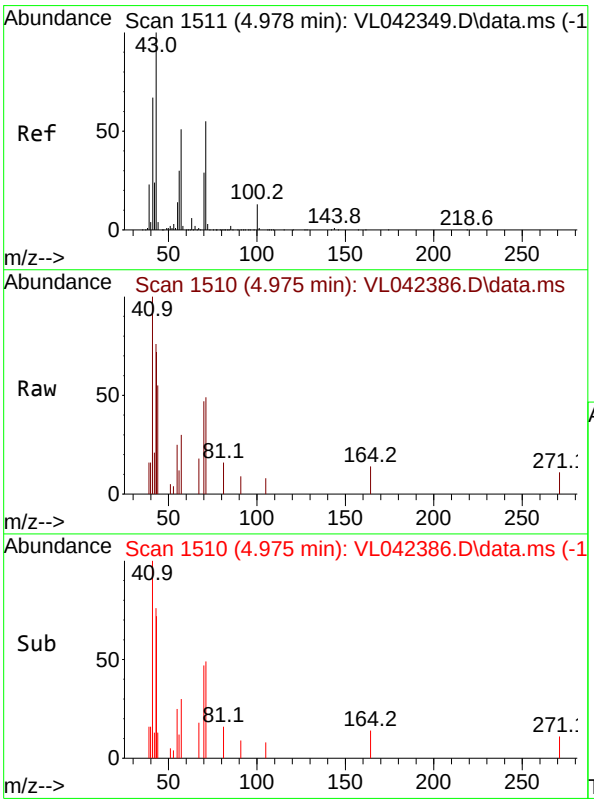
#9
Propene
Concen: 0.245 ppbv
RT: 1.622 min Scan# 4
Delta R.T. 0.139 min
Lab File: VL042386.D
Acq: 18 Apr 2025 12:09

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025DL2

Tgt Ion: 41 Resp: 2578

Ion	Ratio	Lower	Upper
41	100		
42	71.3	56.2	84.4

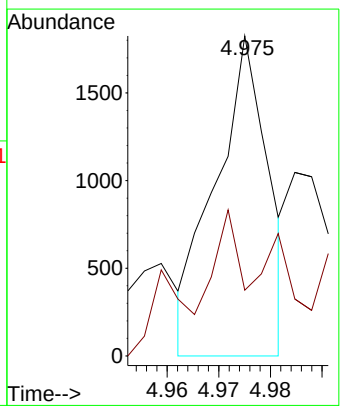


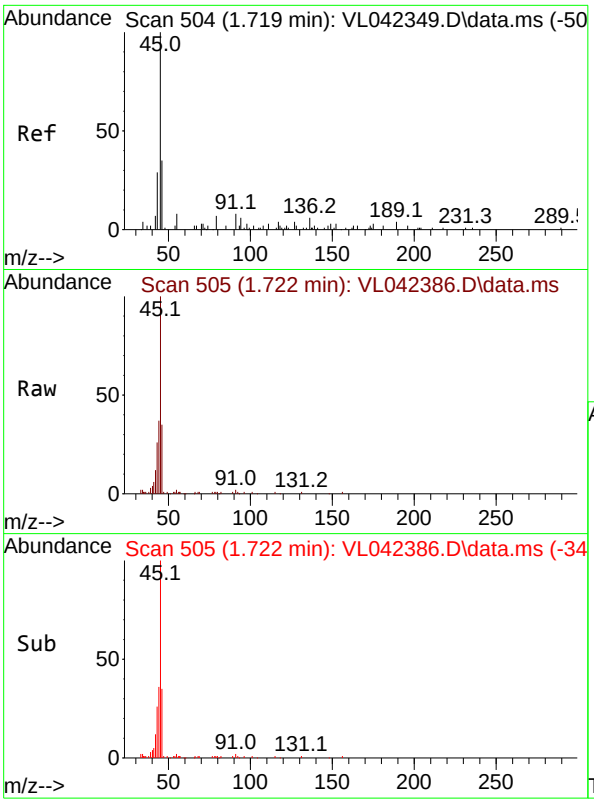


#10
Heptane
Concen: 0.044 ppbv
RT: 4.975 min Scan# 1510
Delta R.T. -0.003 min
Lab File: VL042386.D
Acq: 18 Apr 2025 12:09

Tgt Ion: 43 Resp: 1295

Ion	Ratio	Lower	Upper
43	100		
57	84.1	39.9	59.9#



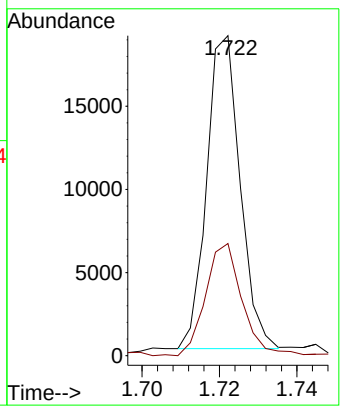


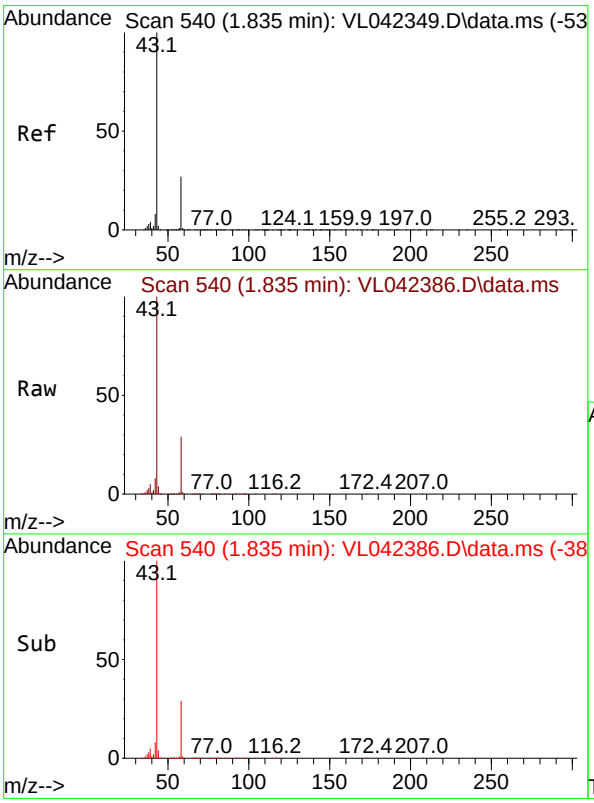
#13
Ethanol
Concen: 6.730 ppbv
RT: 1.722 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042386.D
Acq: 18 Apr 2025 12:09

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025DL2

Tgt Ion: 45 Resp: 11275

Ion	Ratio	Lower	Upper
45	100		
46	39.6	21.9	87.7

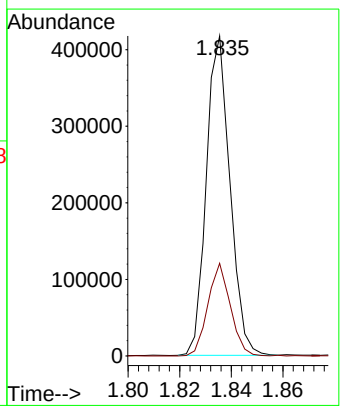


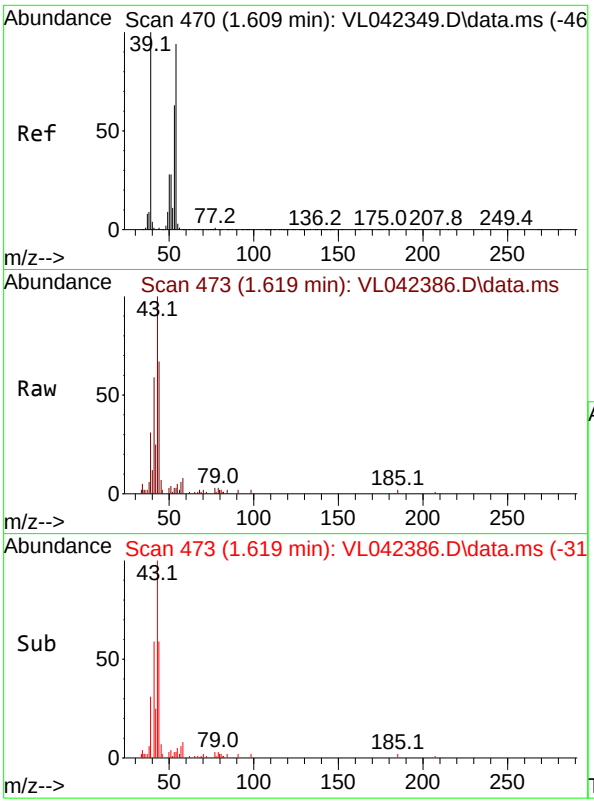


#15
Acetone
Concen: 11.764 ppbv
RT: 1.835 min Scan# 540
Delta R.T. 0.000 min
Lab File: VL042386.D
Acq: 18 Apr 2025 12:09

Tgt Ion: 43 Resp: 264945

Ion	Ratio	Lower	Upper
43	100		
58	27.9	22.4	33.6



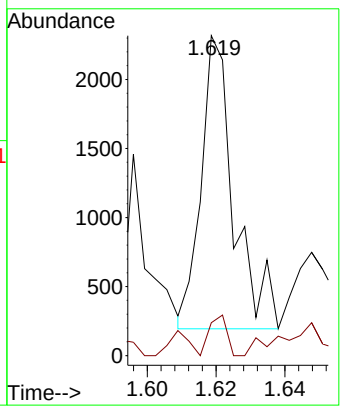


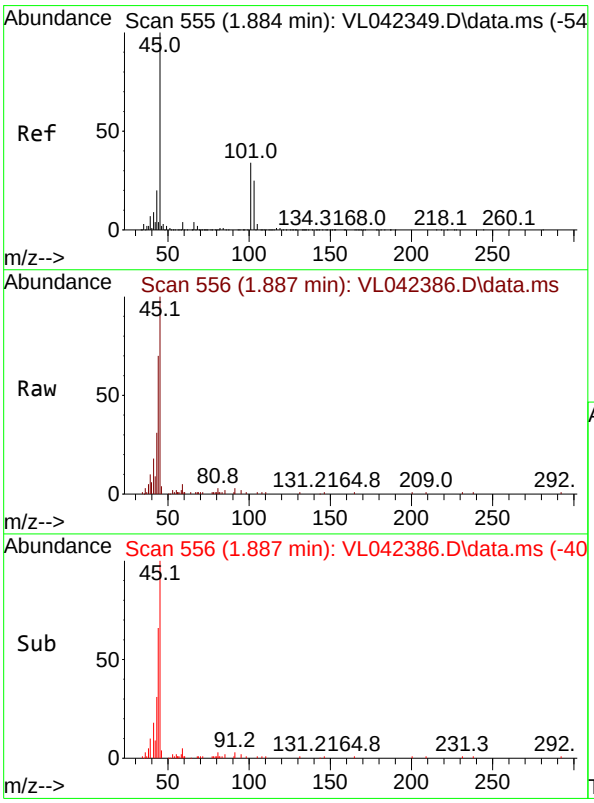
#16
1,3-Butadiene
Concen: 0.130 ppbv
RT: 1.619 min Scan# 4
Delta R.T. 0.010 min
Lab File: VL042386.D
Acq: 18 Apr 2025 12:09

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025DL2

Tgt Ion: 39 Resp: 1405

Ion	Ratio	Lower	Upper
39	100		
54	0.0	64.9	97.3#

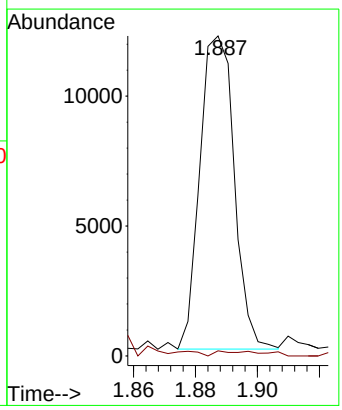


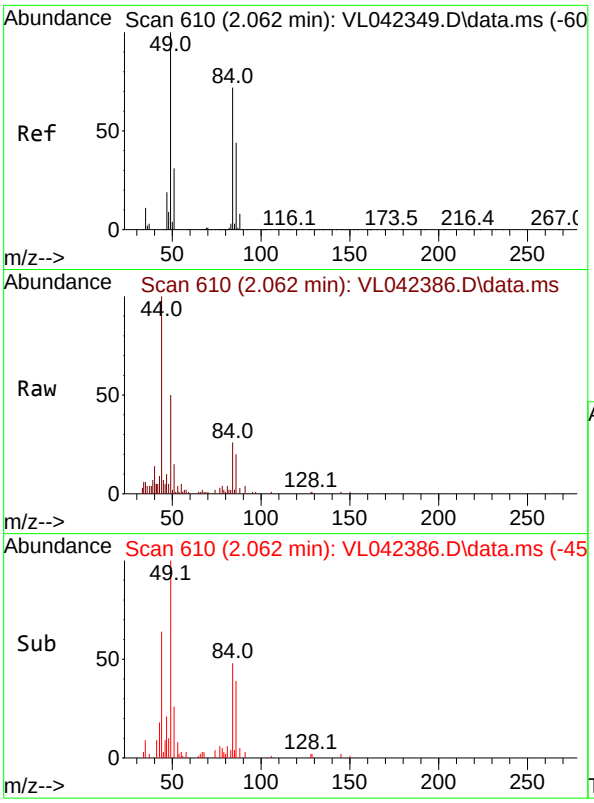


#19
Isopropyl Alcohol
Concen: 0.740 ppbv
RT: 1.887 min Scan# 556
Delta R.T. 0.003 min
Lab File: VL042386.D
Acq: 18 Apr 2025 12:09

Tgt Ion: 45 Resp: 9262

Ion	Ratio	Lower	Upper
45	100		
58	797.3	34.5	51.7#



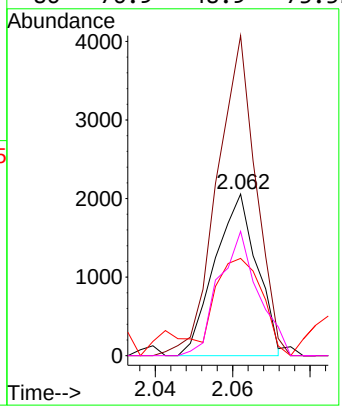


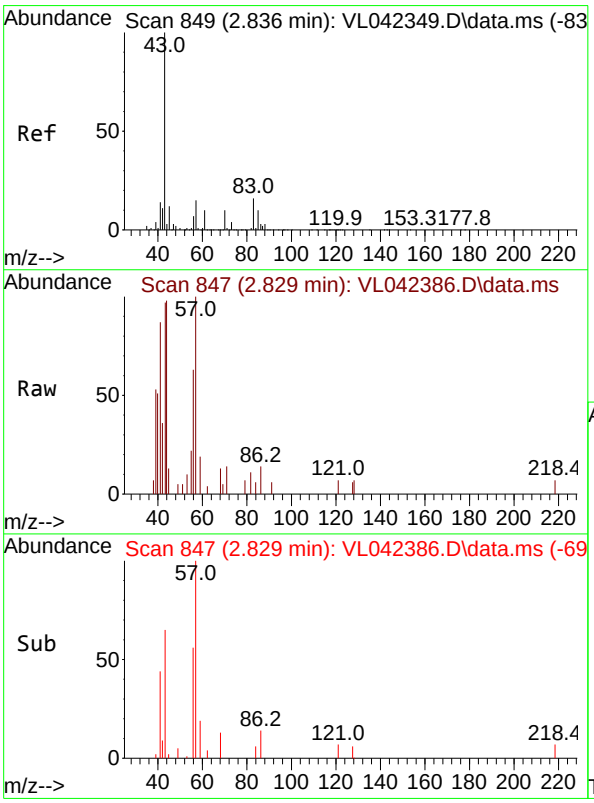
#20
Methylene Chloride
Concen: 0.177 ppbv
RT: 2.062 min Scan# 61
Delta R.T. 0.000 min
Lab File: VL042386.D
Acq: 18 Apr 2025 12:09

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025DL2

Tgt Ion: 84 Resp: 1558

Ion	Ratio	Lower	Upper
84	100		
49	191.6	111.6	167.4#
51	54.1	35.1	52.7#
86	76.9	48.9	73.3#

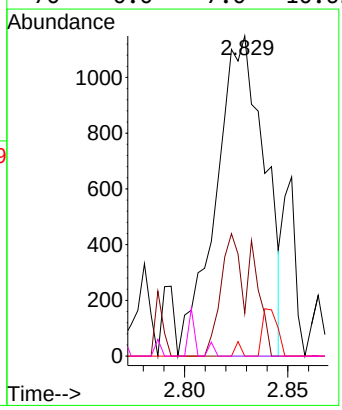


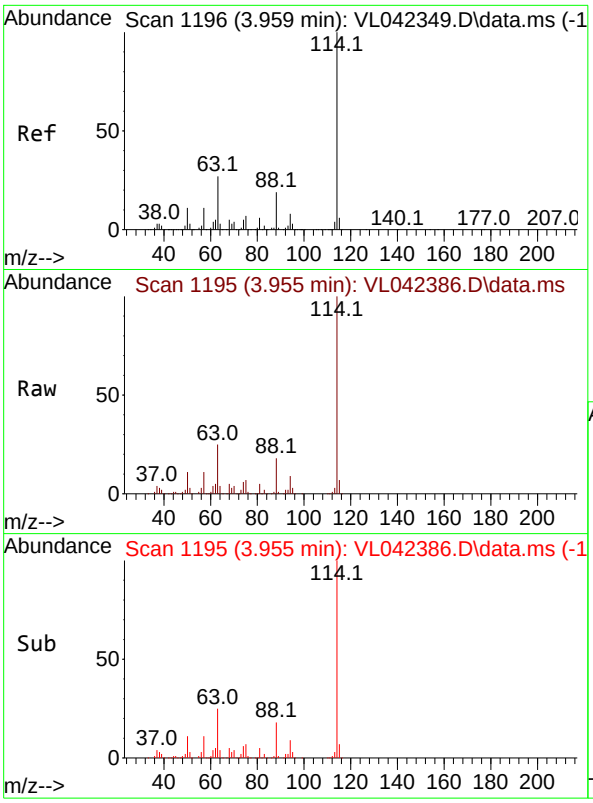


#25
Ethyl Acetate
Concen: 0.034 ppbv
RT: 2.829 min Scan# 847
Delta R.T. -0.006 min
Lab File: VL042386.D
Acq: 18 Apr 2025 12:09

Tgt Ion: 43 Resp: 1871

Ion	Ratio	Lower	Upper
43	100		
45	24.5	8.3	12.5#
61	0.0	7.3	10.9#
70	0.0	7.0	10.6#



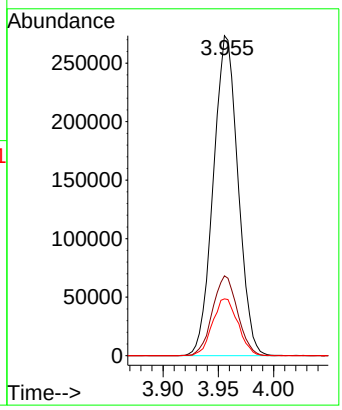


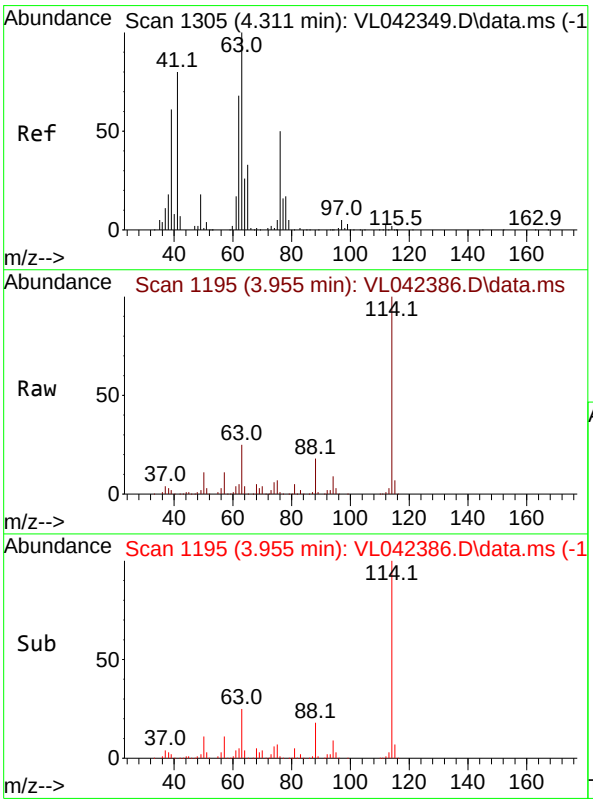
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.955 min Scan# 11
Delta R.T. -0.003 min
Lab File: VL042386.D
Acq: 18 Apr 2025 12:09

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025DL2

Tgt Ion:114 Resp: 424572

Ion	Ratio	Lower	Upper
114	100		
63	25.4	21.8	32.6
88	18.4	15.5	23.3

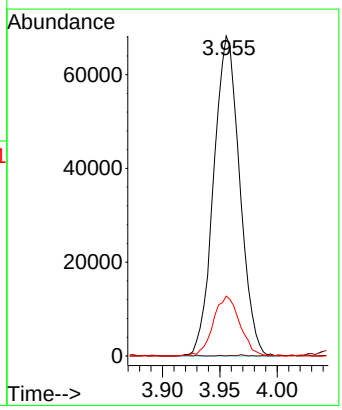


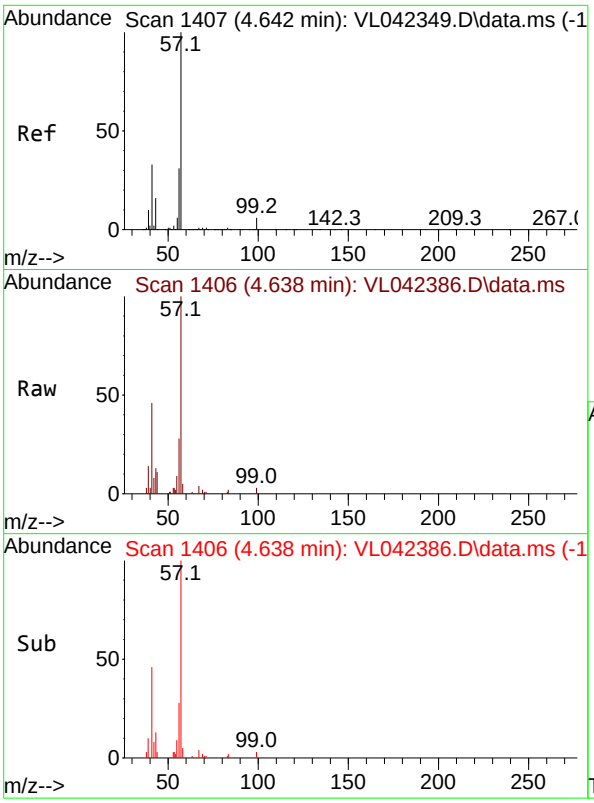


#39
1,2-Dichloropropane
Concen: 6.304 ppbv
RT: 3.955 min Scan# 1195
Delta R.T. -0.356 min
Lab File: VL042386.D
Acq: 18 Apr 2025 12:09

Tgt Ion: 63 Resp: 107583

Ion	Ratio	Lower	Upper
63	100		
41	0.0	64.2	96.2#
62	18.7	54.3	81.5#



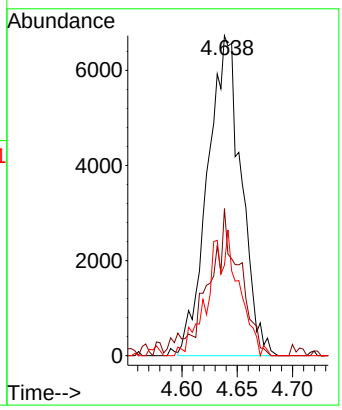


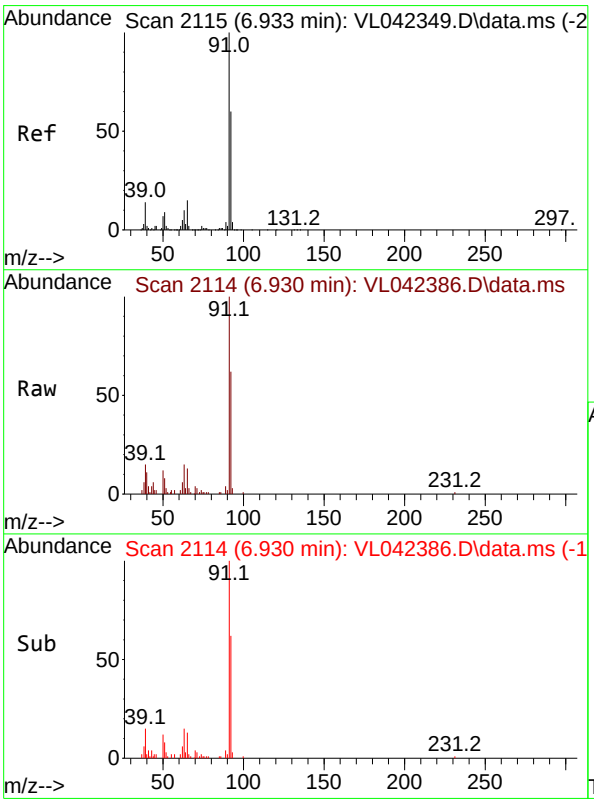
#44
2,2,4-Trimethylpentane
Concen: 0.180 ppbv
RT: 4.638 min Scan# 14
Delta R.T. -0.003 min
Lab File: VL042386.D
Acq: 18 Apr 2025 12:09

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025DL2

Tgt Ion: 57 Resp: 14250

Ion	Ratio	Lower	Upper
57	100		
41	43.5	27.2	40.8#
56	36.0	25.7	38.5

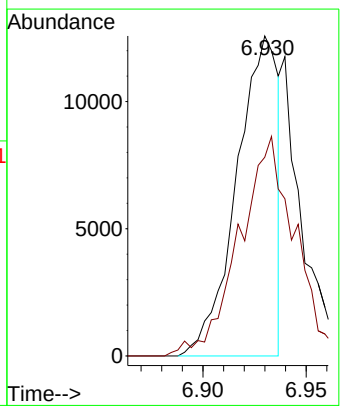


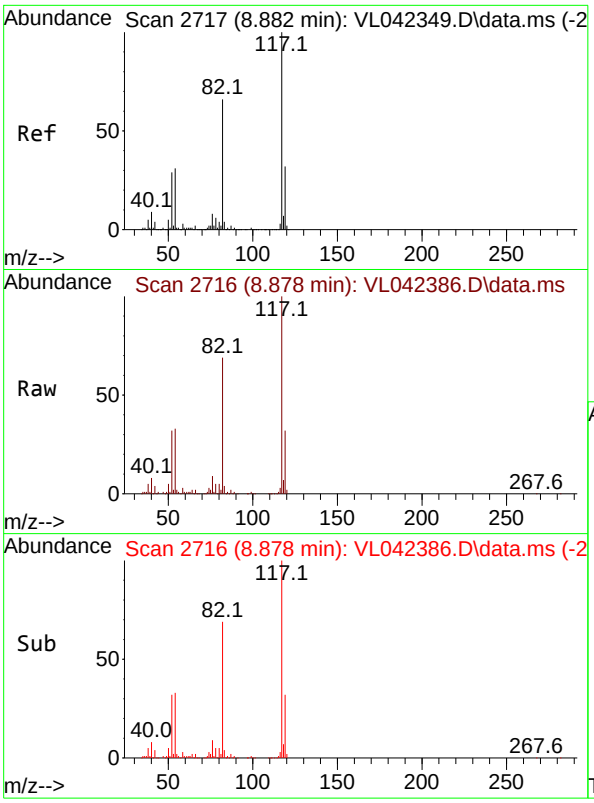


#53
Toluene
Concen: 0.318 ppbv
RT: 6.930 min Scan# 2114
Delta R.T. -0.003 min
Lab File: VL042386.D
Acq: 18 Apr 2025 12:09

Tgt Ion: 91 Resp: 17493

Ion	Ratio	Lower	Upper
91	100		
92	91.6	48.2	72.4#



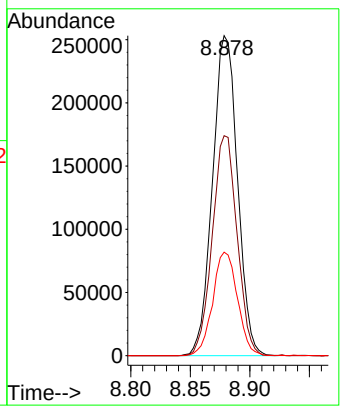


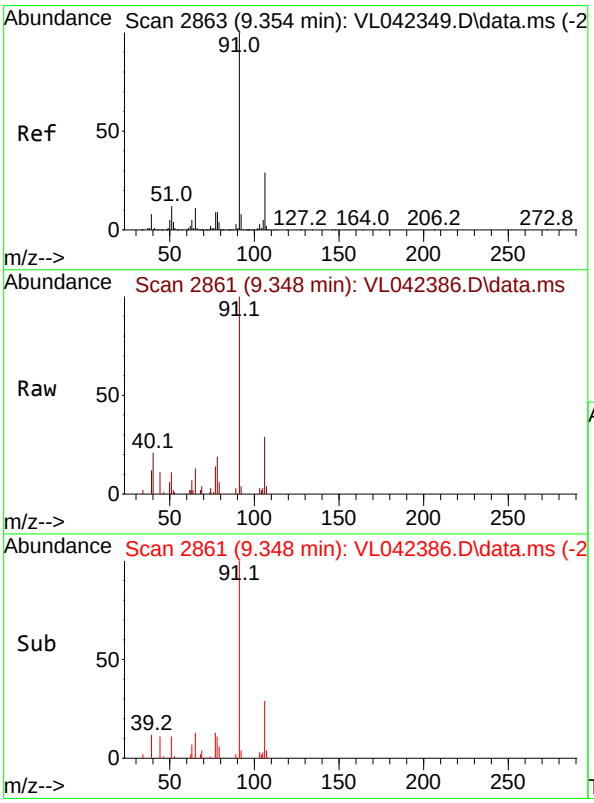
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.878 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL042386.D
Acq: 18 Apr 2025 12:09

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025DL2

Tgt Ion:117 Resp: 368674

Ion	Ratio	Lower	Upper
117	100		
82	68.2	57.8	86.6
119	32.1	25.2	37.8

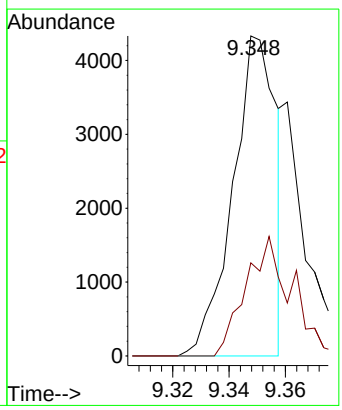


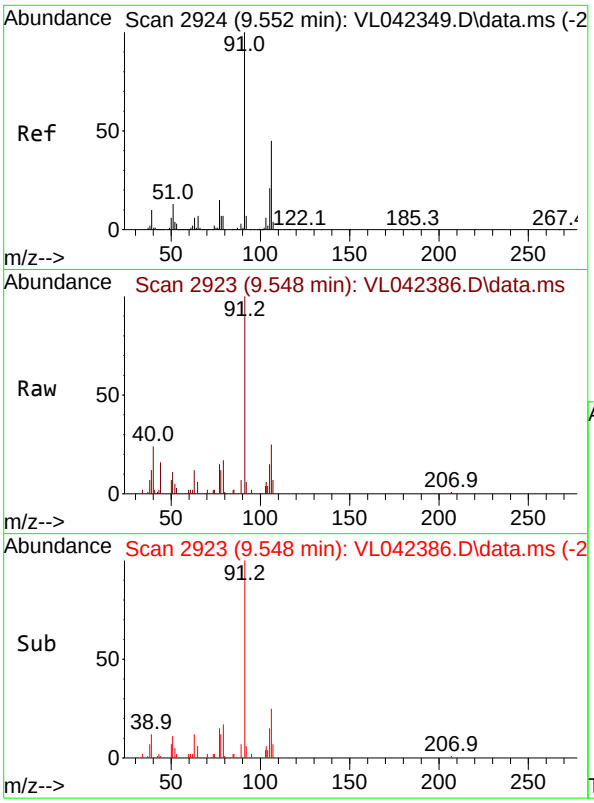


#58
Ethyl Benzene
Concen: 0.063 ppbv
RT: 9.348 min Scan# 2861
Delta R.T. -0.006 min
Lab File: VL042386.D
Acq: 18 Apr 2025 12:09

Tgt Ion: 91 Resp: 4601

Ion	Ratio	Lower	Upper
91	100		
106	29.1	23.0	34.4



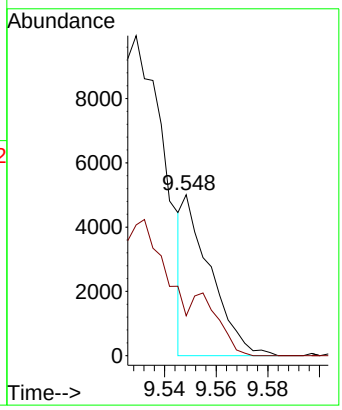


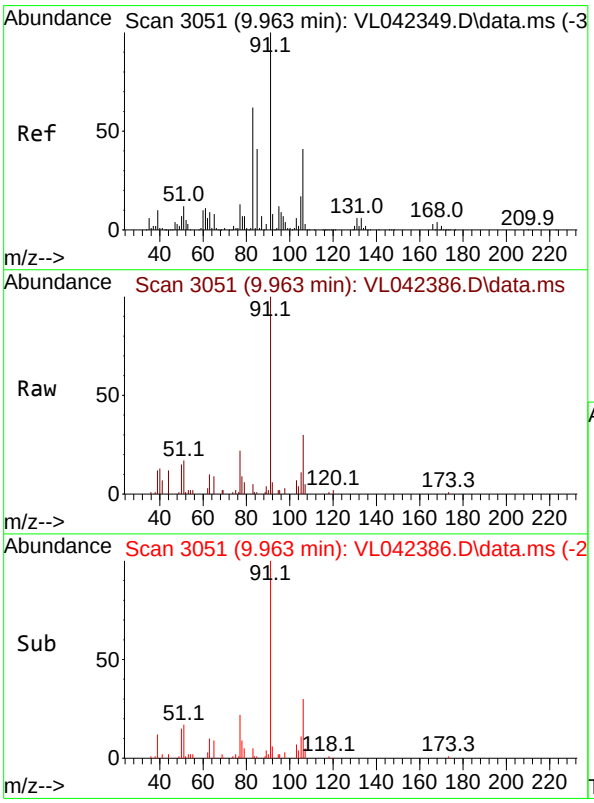
#59
m/p-Xylene
Concen: 0.064 ppbv
RT: 9.548 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL042386.D
Acq: 18 Apr 2025 12:09

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025DL2

Tgt Ion: 91 Resp: 3739

Ion	Ratio	Lower	Upper
91	100		
106	0.0	35.4	53.2#

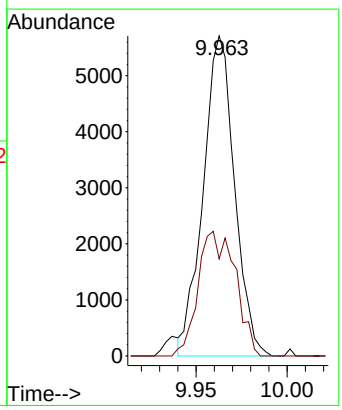


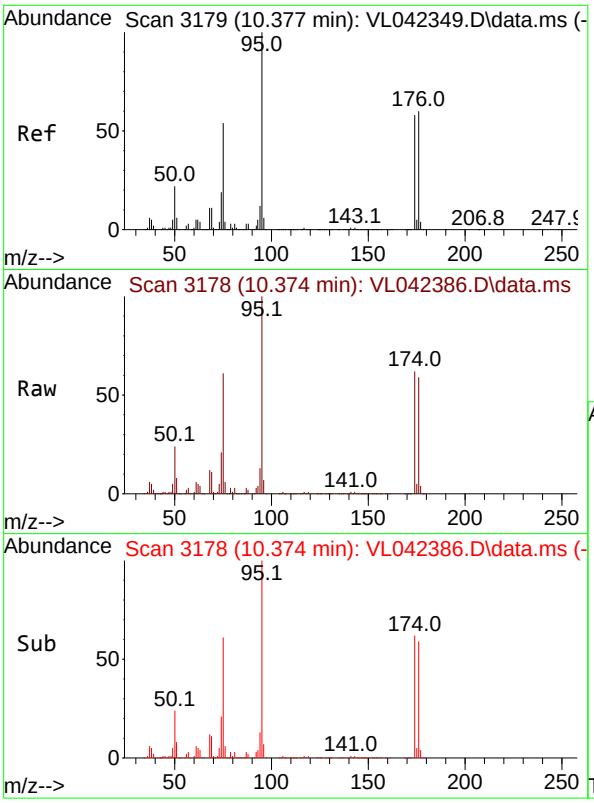


#60
o-Xylene
Concen: 0.115 ppbv
RT: 9.963 min Scan# 3051
Delta R.T. 0.000 min
Lab File: VL042386.D
Acq: 18 Apr 2025 12:09

Tgt Ion: 91 Resp: 6838

Ion	Ratio	Lower	Upper
91	100		
106	46.2	21.1	63.4



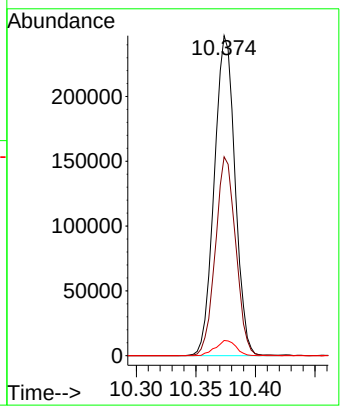


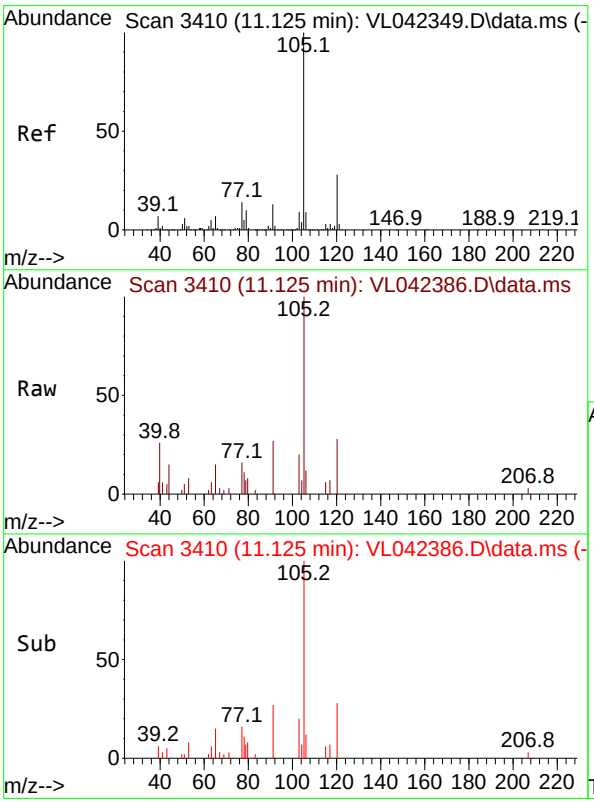
#68
1-Bromo-4-Fluorobenzene
Concen: 9.859 ppbv
RT: 10.374 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042386.D
Acq: 18 Apr 2025 12:09

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025DL2

Tgt Ion: 95 Resp: 298684

Ion	Ratio	Lower	Upper
95	100		
174	61.0	48.5	72.7
175	4.7	3.7	5.5

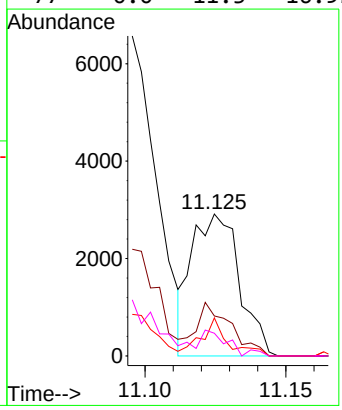


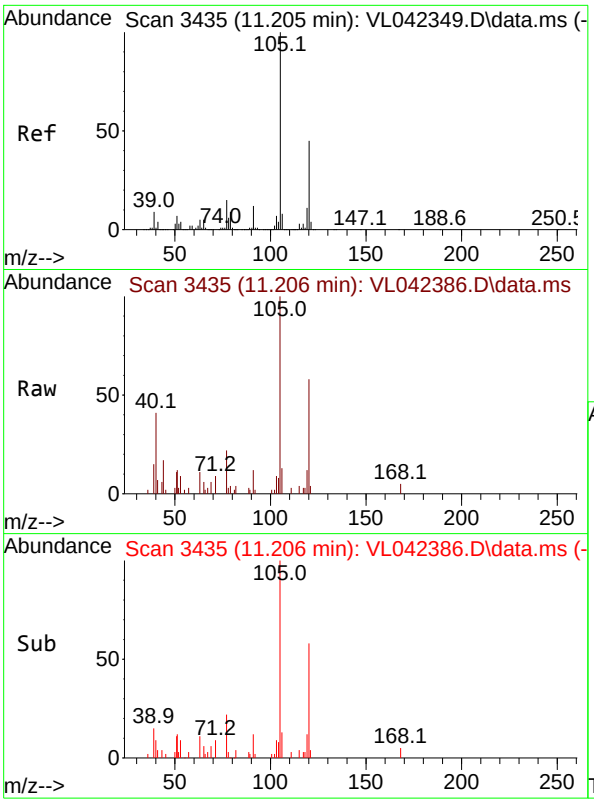


#72
4-Ethyltoluene
Concen: 0.047 ppbv
RT: 11.125 min Scan# 3410
Delta R.T. 0.000 min
Lab File: VL042386.D
Acq: 18 Apr 2025 12:09

Tgt Ion:105 Resp: 3430

Ion	Ratio	Lower	Upper
105	100		
120	0.0	23.2	34.8#
91	13.9	10.4	15.6
77	0.0	11.3	16.9#



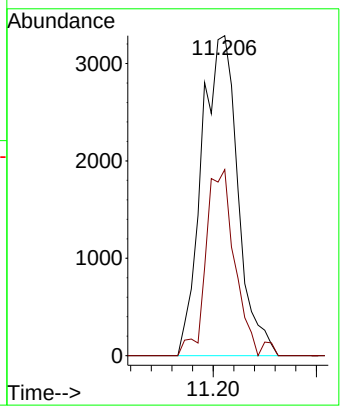


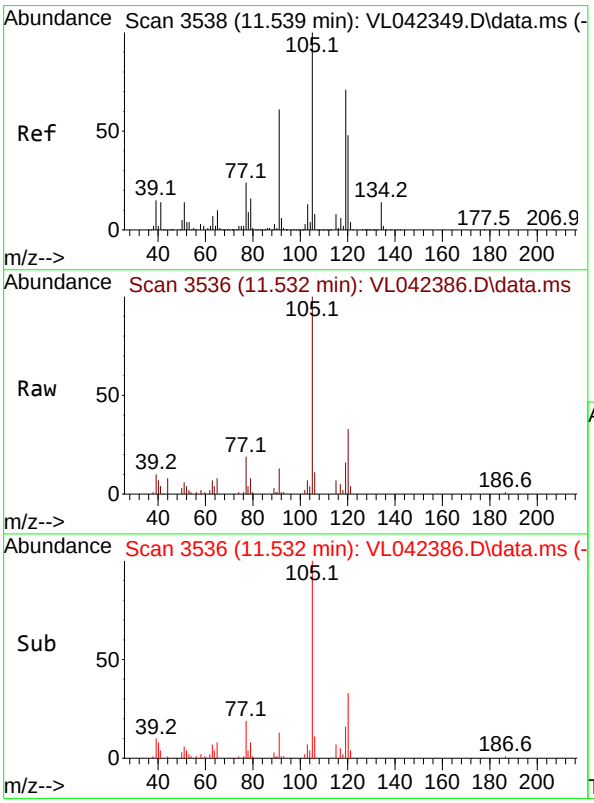
#73
1,3,5-Trimethylbenzene
Concen: 0.063 ppbv
RT: 11.206 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042386.D
Acq: 18 Apr 2025 12:09

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025DL2

Tgt Ion:105 Resp: 4008

Ion	Ratio	Lower	Upper
105	100		
120	62.1	35.6	53.4#

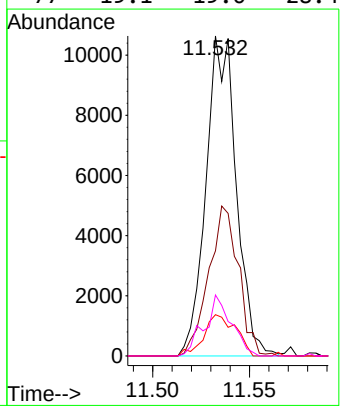


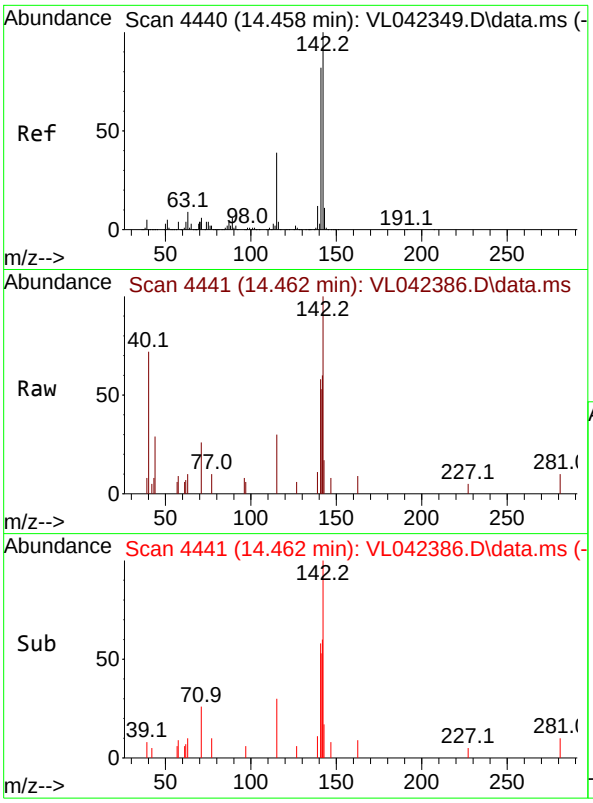


#74
1,2,4-Trimethylbenzene
Concen: 0.155 ppbv
RT: 11.532 min Scan# 3536
Delta R.T. -0.006 min
Lab File: VL042386.D
Acq: 18 Apr 2025 12:09

Tgt Ion:105 Resp: 11571

Ion	Ratio	Lower	Upper
105	100		
120	32.9	38.1	57.1#
91	12.9	48.8	73.2#
77	19.1	19.0	28.4



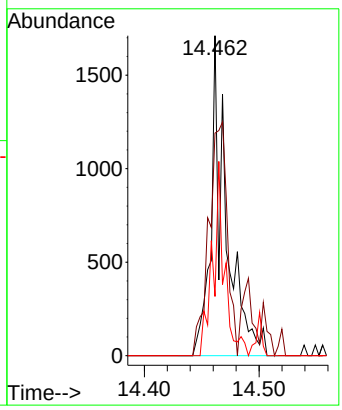


#80
Naphthalene,2-methyl-
Concen: 0.031 ppbv
RT: 14.462 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL042386.D
Acq: 18 Apr 2025 12:09

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025DL2

Tgt Ion:142 Resp: 1553

Ion	Ratio	Lower	Upper
142	100		
141	115.5	66.8	100.2#
115	51.8	33.4	50.2#



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041825\
Data File : VL042387.D
Acq On : 18 Apr 2025 12:41
Operator : SY/MD
Sample : Q1726-01DL2 40X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025DL2

Quant Time: Apr 18 22:57:54 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

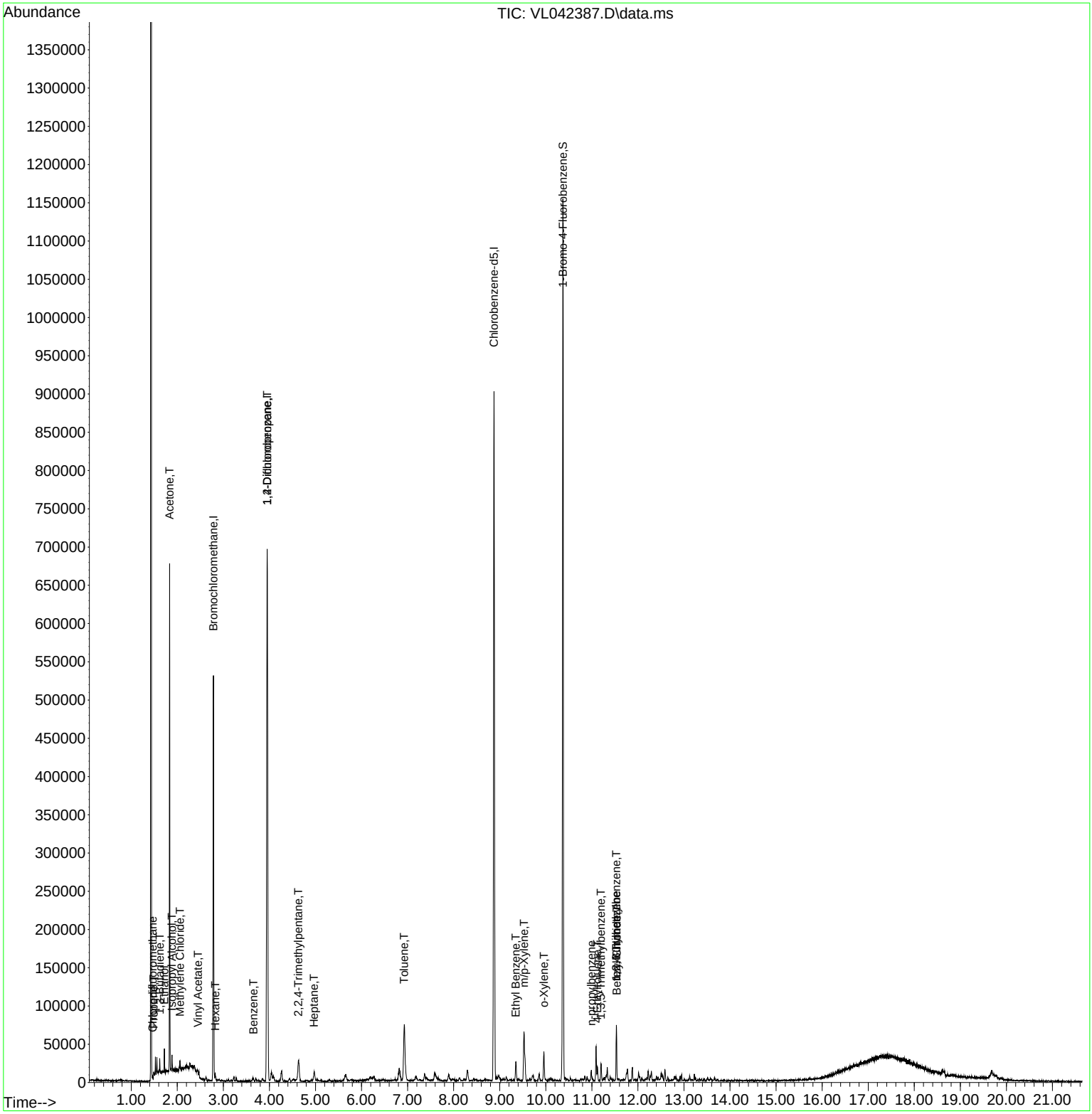
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.784	49	133179	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	411086	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	357783	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.370	95	291643	9.920	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 99.200%			
Target Compounds						Qvalue
3) Chlorodifluoromethane	1.466	51	1391	0.062	ppbv #	84
9) Propene	1.486	41	737	0.072	ppbv #	15
10) Heptane	4.968	43	2621	0.091	ppbv #	37
13) Ethanol	1.719	45	9034	5.570	ppbv	89
15) Acetone	1.832	43	267863	12.286	ppbv	99
16) 1,3-Butadiene	1.619	39	1037	0.099	ppbv #	46
19) Isopropyl Alcohol	1.884	45	8878	0.733	ppbv #	1
20) Methylene Chloride	2.059	84	1927	0.226	ppbv	88
23) Vinyl Acetate	2.450	43	665	0.075	ppbv #	44
26) Hexane	2.826	57	2086	0.096	ppbv #	40
36) Benzene	3.654	78	1745	0.039	ppbv #	61
39) 1,2-Dichloropropane	3.952	63	106017	6.416	ppbv #	22
44) 2,2,4-Trimethylpentane	4.629	57	24464	0.319	ppbv #	86
53) Toluene	6.923	91	50250	0.944	ppbv	99
58) Ethyl Benzene	9.348	91	9917	0.140	ppbv	100
59) m/p-Xylene	9.526	91	40839	0.715	ppbv	99
60) o-Xylene	9.959	91	16348	0.284	ppbv	94
64) n-propylbenzene	10.989	120	1431	0.067	ppbv	79
65) tert-Butylbenzene	11.532	119	3021	0.039	ppbv #	75
66) Benzyl Chloride	11.539	91	1010	0.118	ppbv #	70
72) 4-Ethyltoluene	11.121	105	7156	0.102	ppbv #	56
73) 1,3,5-Trimethylbenzene	11.199	105	5458	0.088	ppbv #	73
74) 1,2,4-Trimethylbenzene	11.532	105	26096	0.360	ppbv #	64

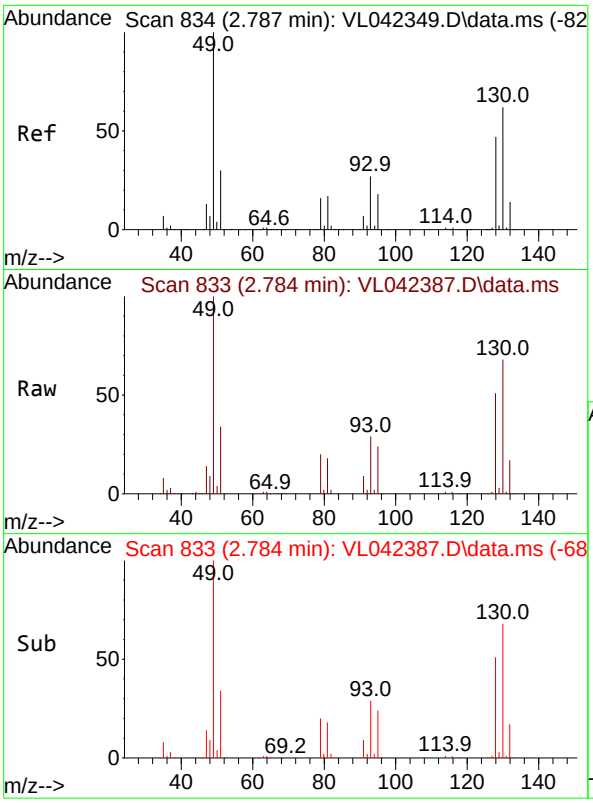
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041825\
Data File : VL042387.D
Acq On : 18 Apr 2025 12:41
Operator : SY/MD
Sample : Q1726-01DL2 40X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025DL2

Quant Time: Apr 18 22:57:54 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



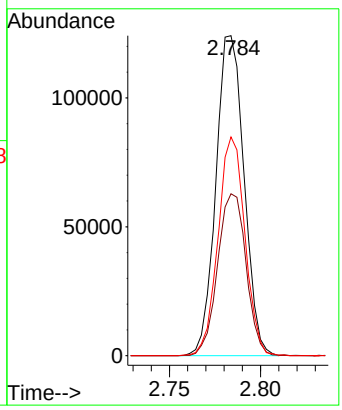


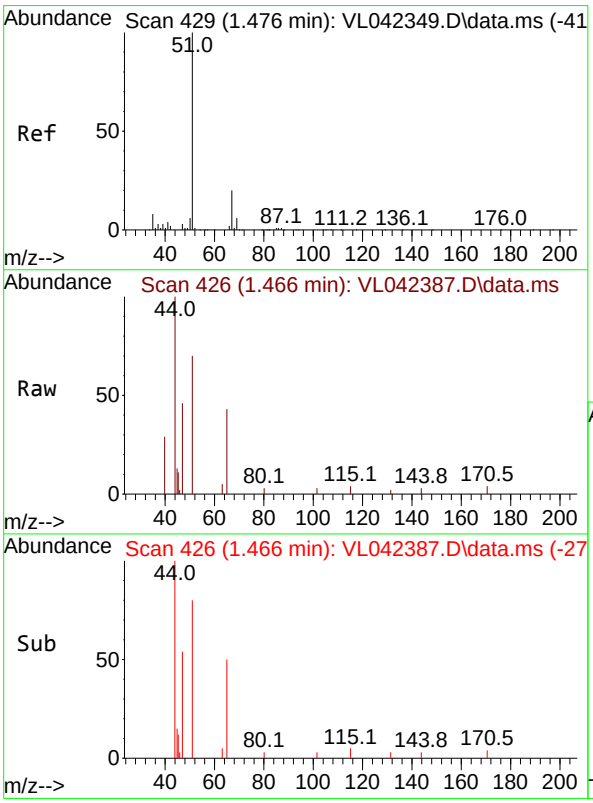
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 8
Delta R.T. -0.003 min
Lab File: VL042387.D
Acq: 18 Apr 2025 12:41

Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025DL2

Tgt Ion: 49 Resp: 133179

Ion	Ratio	Lower	Upper
49	100		
128	51.2	22.8	68.4
130	65.3	29.3	88.0

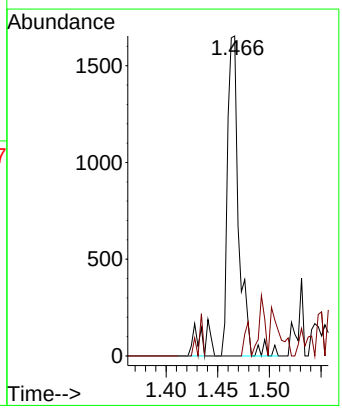


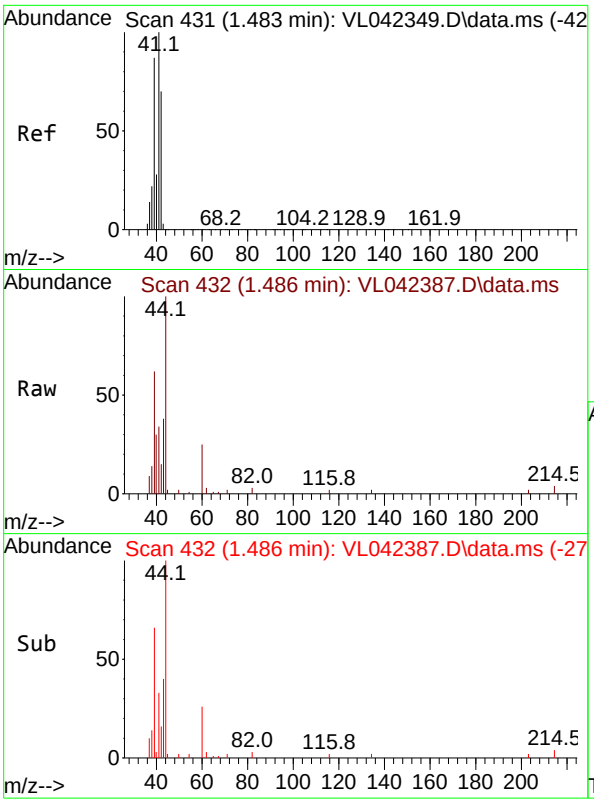


#3
Chlorodifluoromethane
Concen: 0.062 ppbv
RT: 1.466 min Scan# 426
Delta R.T. -0.010 min
Lab File: VL042387.D
Acq: 18 Apr 2025 12:41

Tgt Ion: 51 Resp: 1391

Ion	Ratio	Lower	Upper
51	100		
67	12.9	16.2	24.4#



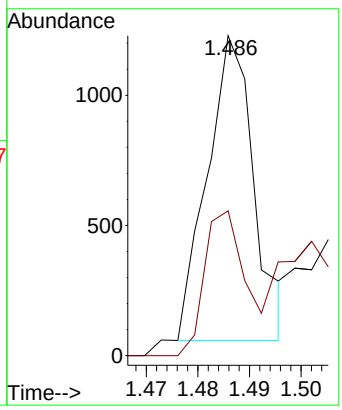


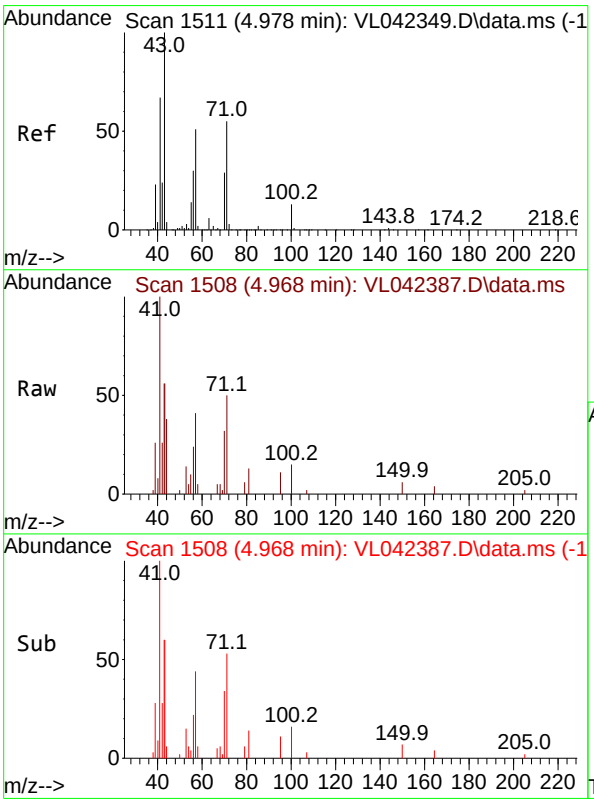
#9
Propene
Concen: 0.072 ppbv
RT: 1.486 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL042387.D
Acq: 18 Apr 2025 12:41

Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025DL2

Tgt Ion: 41 Resp: 737

Ion	Ratio	Lower	Upper
41	100		
42	0.0	56.2	84.4#

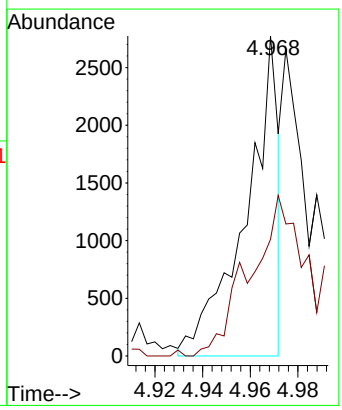


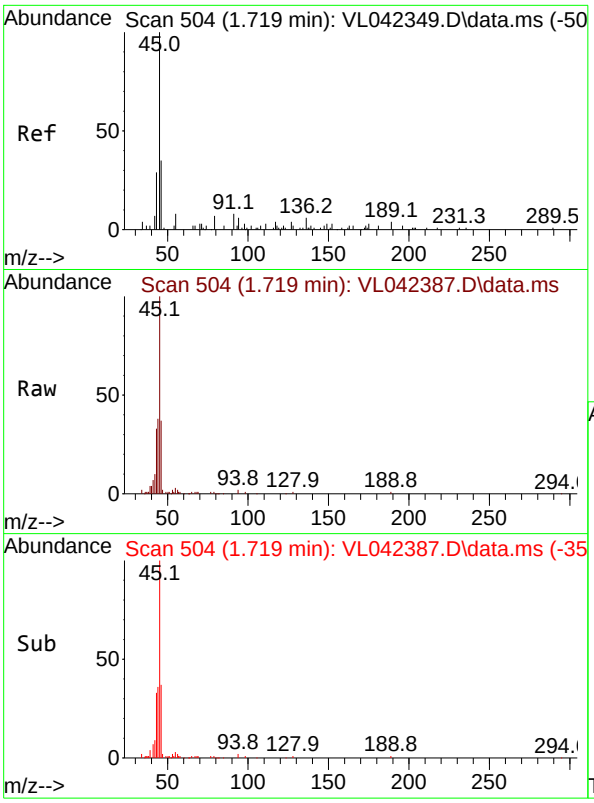


#10
Heptane
Concen: 0.091 ppbv
RT: 4.968 min Scan# 1508
Delta R.T. -0.010 min
Lab File: VL042387.D
Acq: 18 Apr 2025 12:41

Tgt Ion: 43 Resp: 2621

Ion	Ratio	Lower	Upper
43	100		
57	93.2	39.9	59.9#



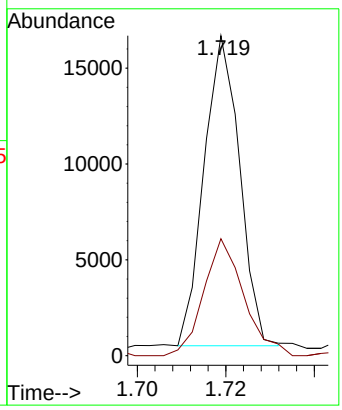


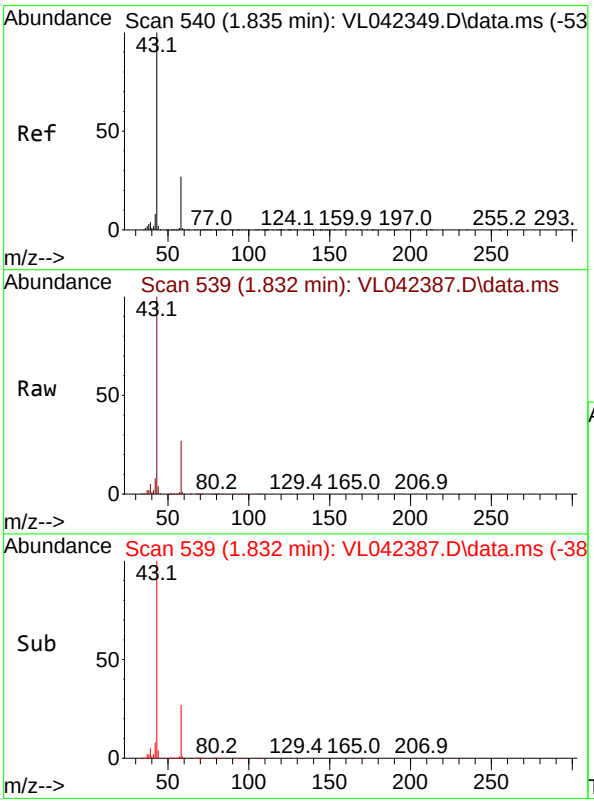
#13
Ethanol
Concen: 5.570 ppbv
RT: 1.719 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL042387.D
Acq: 18 Apr 2025 12:41

Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025DL2

Tgt Ion: 45 Resp: 9034

Ion	Ratio	Lower	Upper
45	100		
46	46.7	21.9	87.7

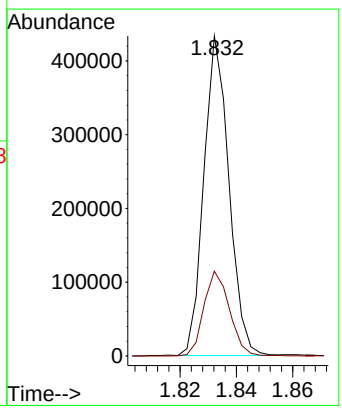


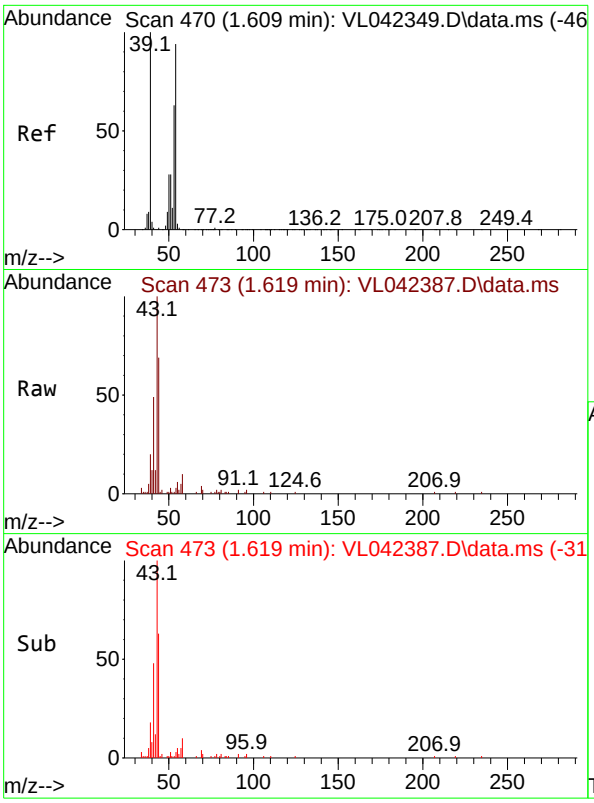


#15
Acetone
Concen: 12.286 ppbv
RT: 1.832 min Scan# 539
Delta R.T. -0.003 min
Lab File: VL042387.D
Acq: 18 Apr 2025 12:41

Tgt Ion: 43 Resp: 267863

Ion	Ratio	Lower	Upper
43	100		
58	27.3	22.4	33.6



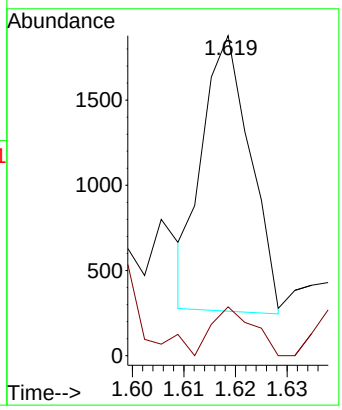


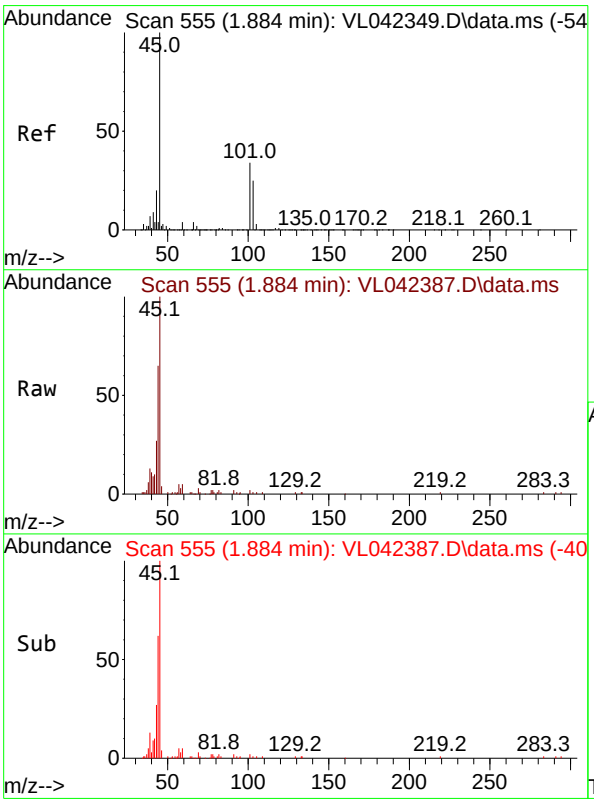
#16
1,3-Butadiene
Concen: 0.099 ppbv
RT: 1.619 min Scan# 4
Delta R.T. 0.010 min
Lab File: VL042387.D
Acq: 18 Apr 2025 12:41

Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025DL2

Tgt Ion: 39 Resp: 1037

Ion	Ratio	Lower	Upper
39	100		
54	32.7	64.9	97.3#

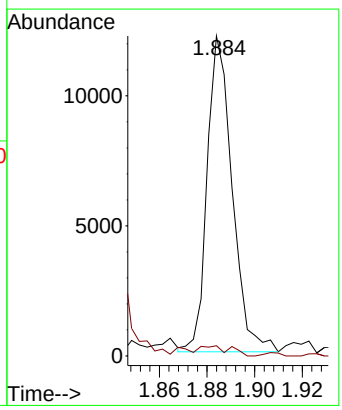


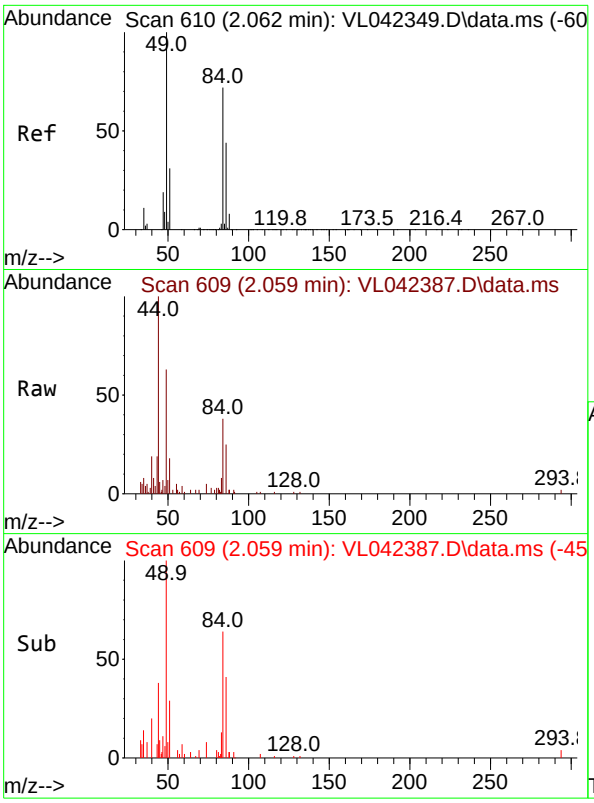


#19
Isopropyl Alcohol
Concen: 0.733 ppbv
RT: 1.884 min Scan# 555
Delta R.T. 0.000 min
Lab File: VL042387.D
Acq: 18 Apr 2025 12:41

Tgt Ion: 45 Resp: 8878

Ion	Ratio	Lower	Upper
45	100		
58	823.5	34.5	51.7#



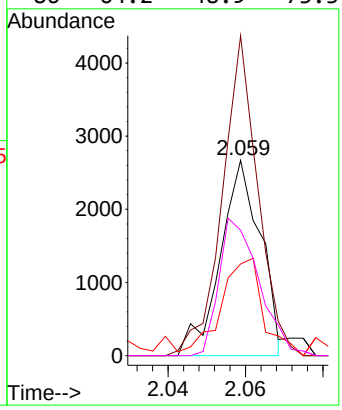


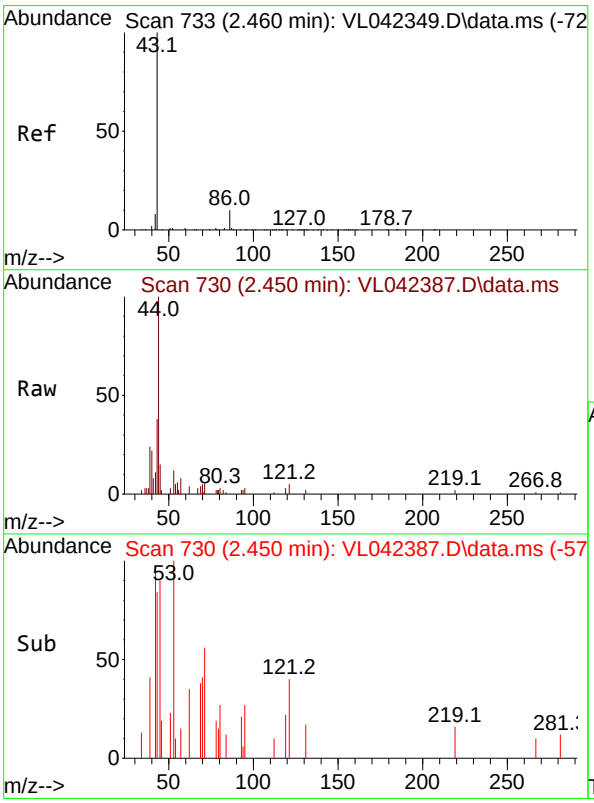
#20
Methylene Chloride
Concen: 0.226 ppbv
RT: 2.059 min Scan# 6
Delta R.T. -0.003 min
Lab File: VL042387.D
Acq: 18 Apr 2025 12:41

Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025DL2

Tgt Ion: 84 Resp: 1927

Ion	Ratio	Lower	Upper
84	100		
49	161.2	111.6	167.4
51	45.0	35.1	52.7
86	64.2	48.9	73.3

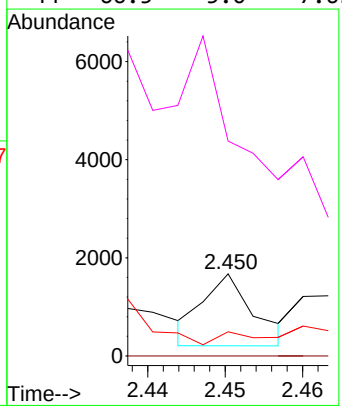


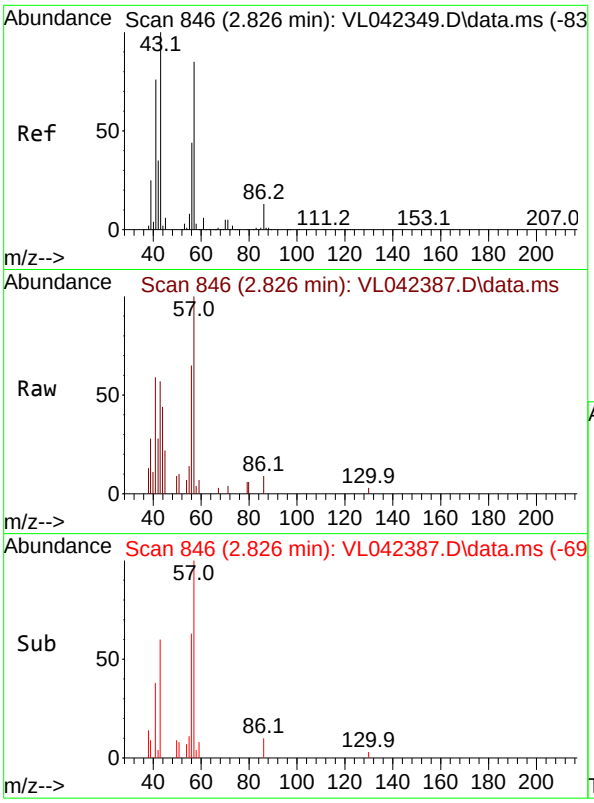


#23
Vinyl Acetate
Concen: 0.075 ppbv
RT: 2.450 min Scan# 730
Delta R.T. -0.010 min
Lab File: VL042387.D
Acq: 18 Apr 2025 12:41

Tgt Ion: 43 Resp: 665

Ion	Ratio	Lower	Upper
43	100		
86	0.0	6.5	9.7#
42	11.4	7.8	11.8
44	66.5	5.0	7.6#



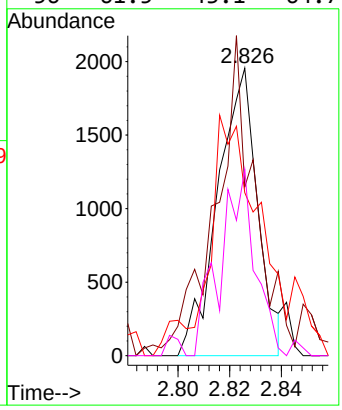


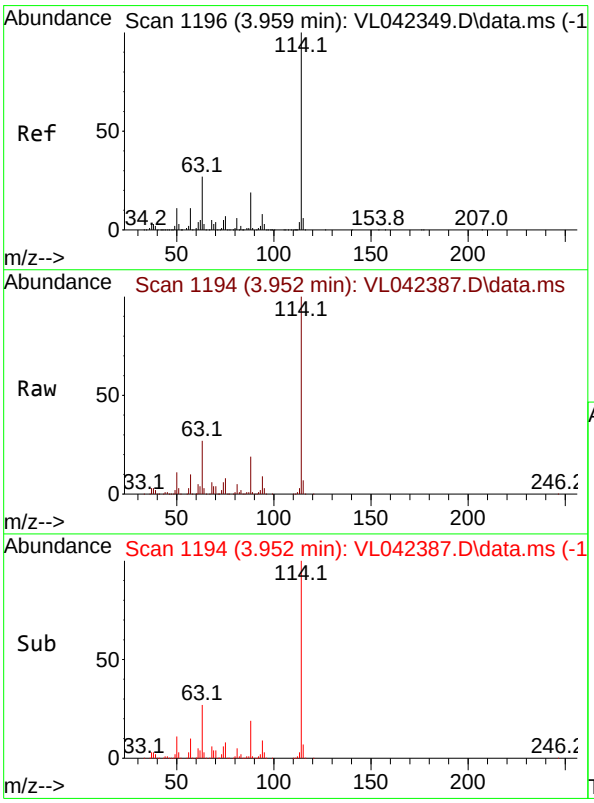
#26
Hexane
Concen: 0.096 ppbv
RT: 2.826 min Scan# 84
Delta R.T. 0.000 min
Lab File: VL042387.D
Acq: 18 Apr 2025 12:41

Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025DL2

Tgt Ion: 57 Resp: 2086

Ion	Ratio	Lower	Upper
57	100		
41	139.7	77.9	116.9#
43	122.0	208.4	312.6#
56	61.5	43.1	64.7

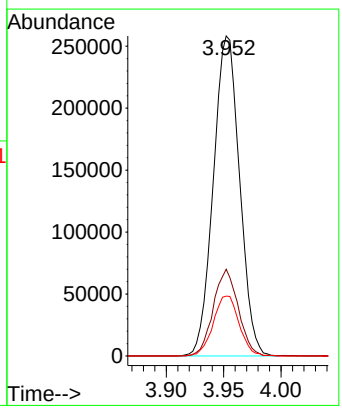


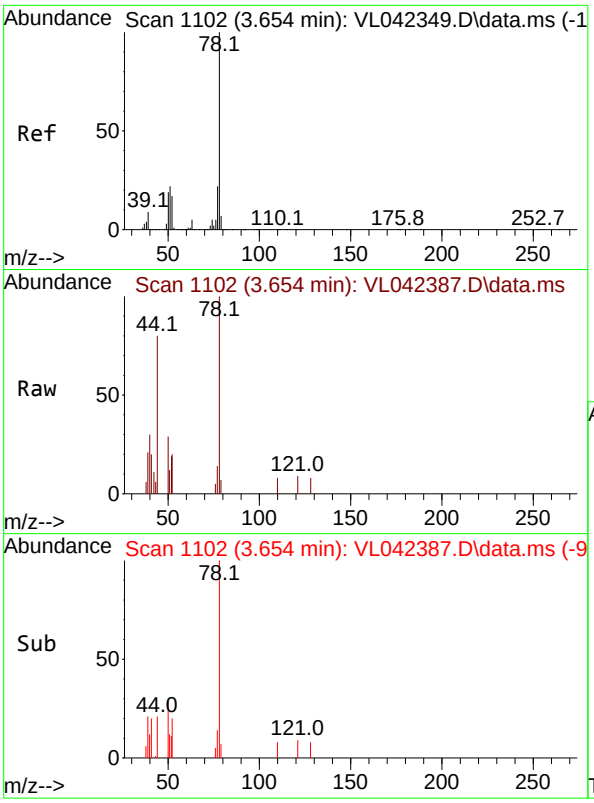


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.952 min Scan# 1194
Delta R.T. -0.006 min
Lab File: VL042387.D
Acq: 18 Apr 2025 12:41

Tgt Ion:114 Resp: 411086

Ion	Ratio	Lower	Upper
114	100		
63	25.9	21.8	32.6
88	18.5	15.5	23.3



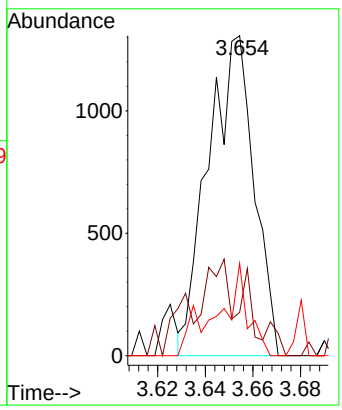


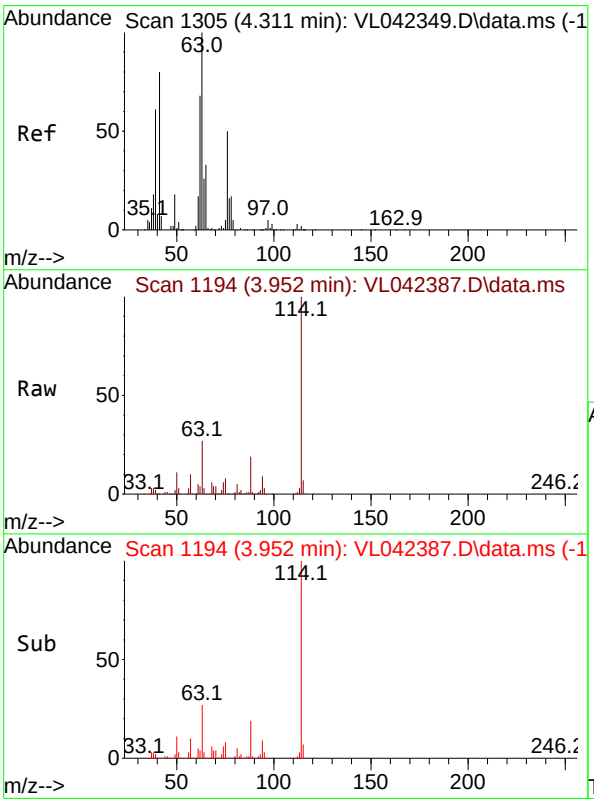
#36
Benzene
Concen: 0.039 ppbv
RT: 3.654 min Scan# 11
Delta R.T. 0.000 min
Lab File: VL042387.D
Acq: 18 Apr 2025 12:41

Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025DL2

Tgt Ion: 78 Resp: 1745

Ion	Ratio	Lower	Upper
78	100		
77	6.6	17.4	26.0#
50	40.8	15.5	23.3#

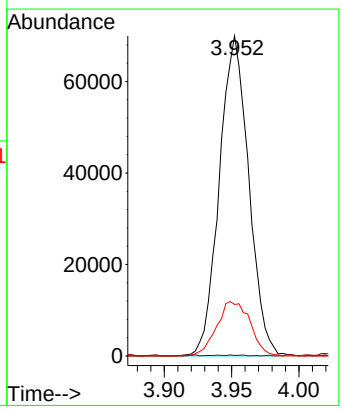


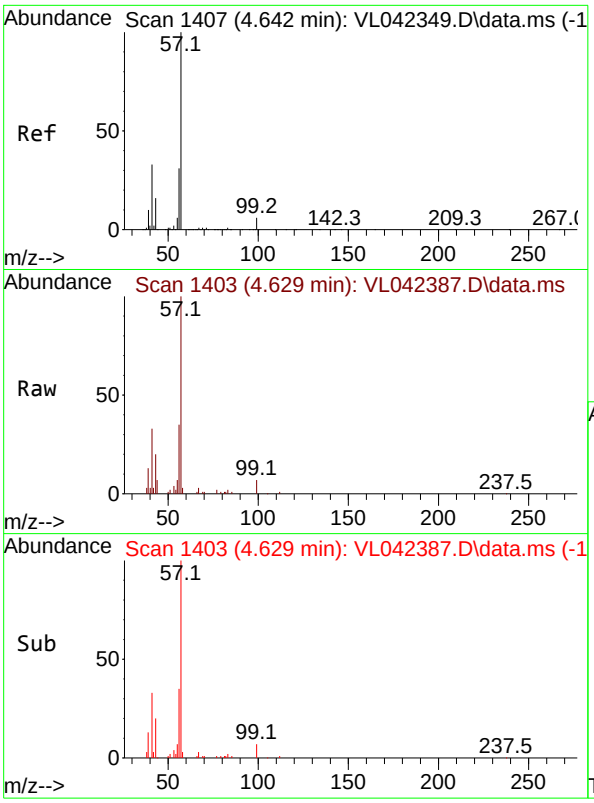


#39
1,2-Dichloropropane
Concen: 6.416 ppbv
RT: 3.952 min Scan# 1194
Delta R.T. -0.359 min
Lab File: VL042387.D
Acq: 18 Apr 2025 12:41

Tgt Ion: 63 Resp: 106017

Ion	Ratio	Lower	Upper
63	100		
41	0.2	64.2	96.2#
62	16.1	54.3	81.5#



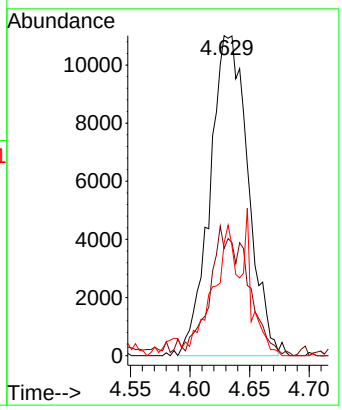


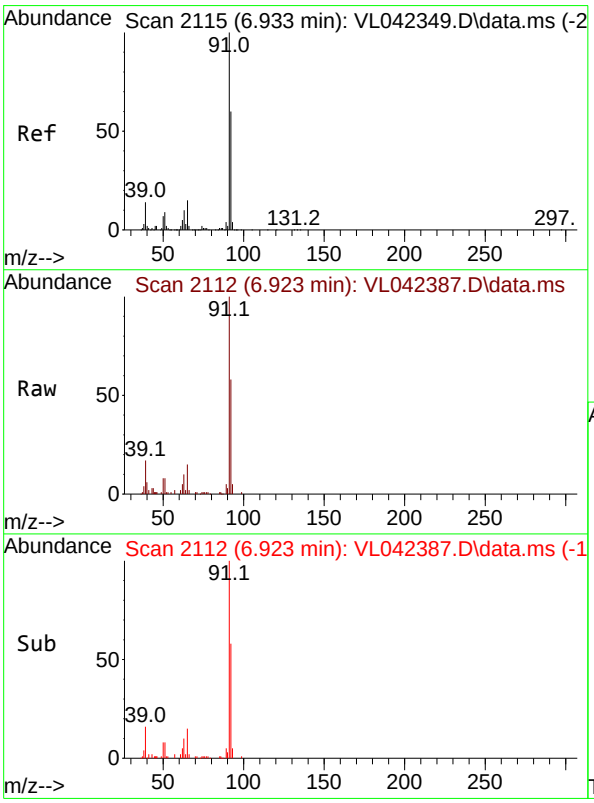
#44
2,2,4-Trimethylpentane
Concen: 0.319 ppbv
RT: 4.629 min Scan# 14
Delta R.T. -0.013 min
Lab File: VL042387.D
Acq: 18 Apr 2025 12:41

Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025DL2

Tgt Ion: 57 Resp: 24464

Ion	Ratio	Lower	Upper
57	100		
41	42.3	27.2	40.8#
56	40.0	25.7	38.5#

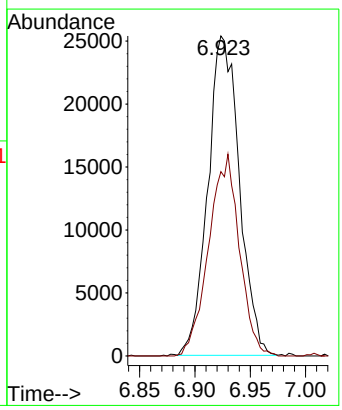


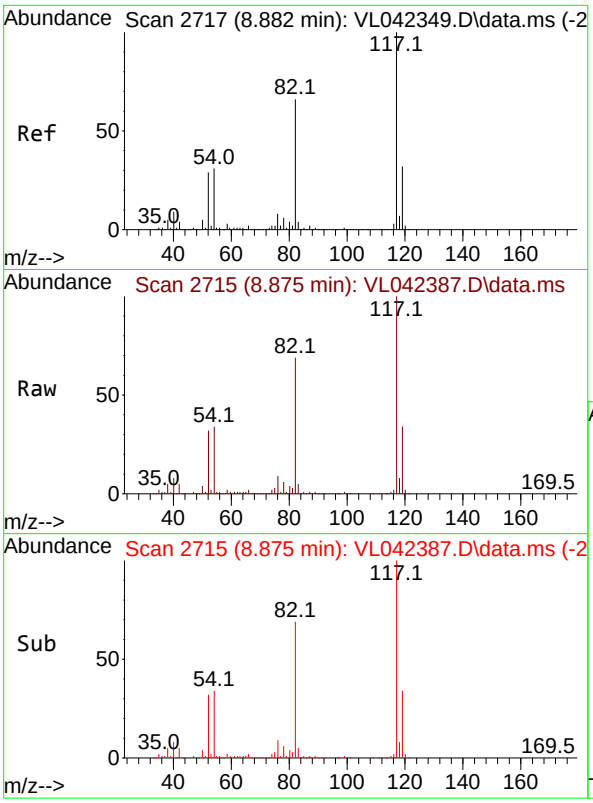


#53
Toluene
Concen: 0.944 ppbv
RT: 6.923 min Scan# 2112
Delta R.T. -0.010 min
Lab File: VL042387.D
Acq: 18 Apr 2025 12:41

Tgt Ion: 91 Resp: 50250

Ion	Ratio	Lower	Upper
91	100		
92	61.3	48.2	72.4



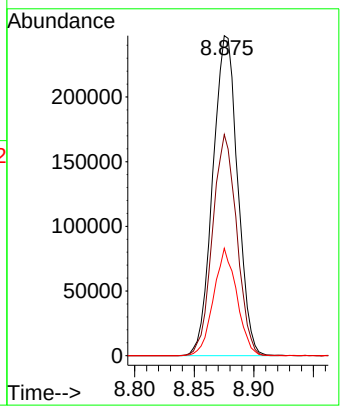


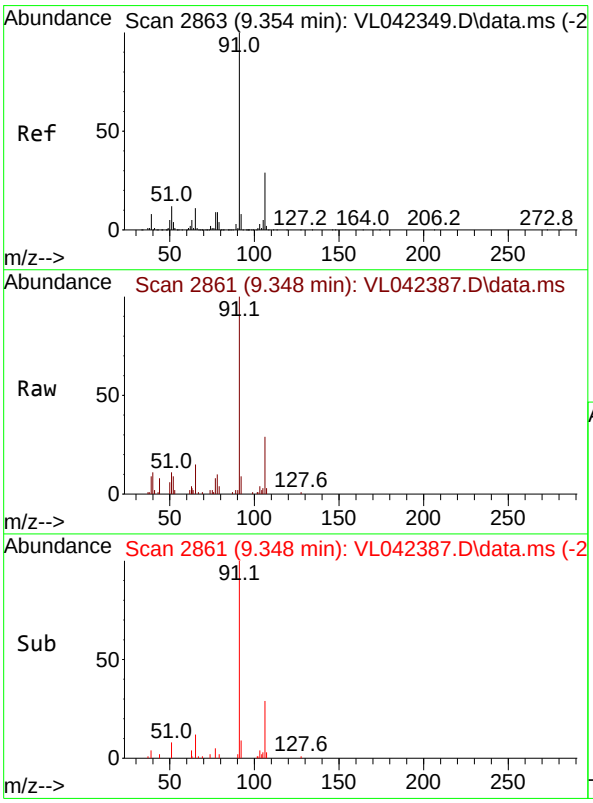
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 2
Delta R.T. -0.006 min
Lab File: VL042387.D
Acq: 18 Apr 2025 12:41

Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025DL2

Tgt Ion:117 Resp: 357783

Ion	Ratio	Lower	Upper
117	100		
82	67.6	57.8	86.6
119	31.5	25.2	37.8

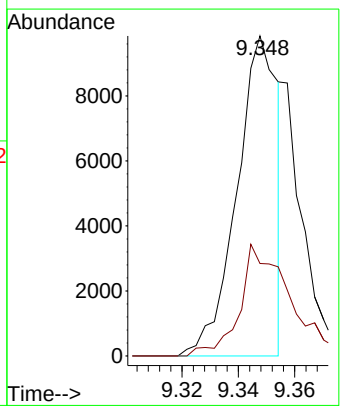


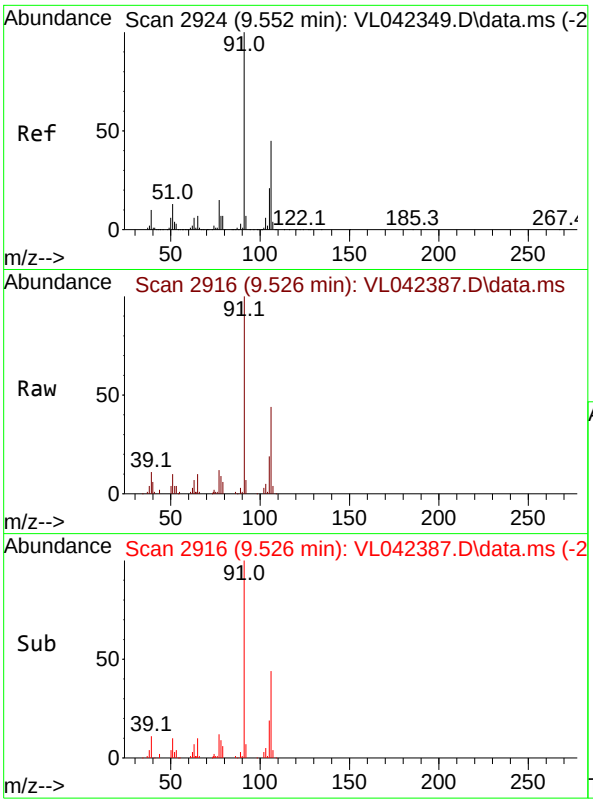


#58
Ethyl Benzene
Concen: 0.140 ppbv
RT: 9.348 min Scan# 2861
Delta R.T. -0.006 min
Lab File: VL042387.D
Acq: 18 Apr 2025 12:41

Tgt Ion: 91 Resp: 9917

Ion	Ratio	Lower	Upper
91	100		
106	28.9	23.0	34.4



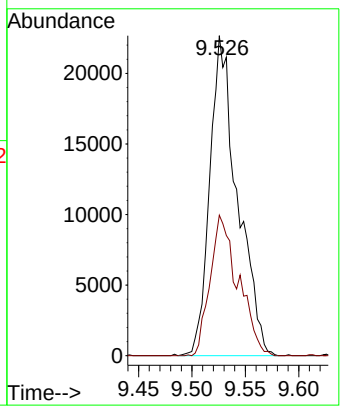


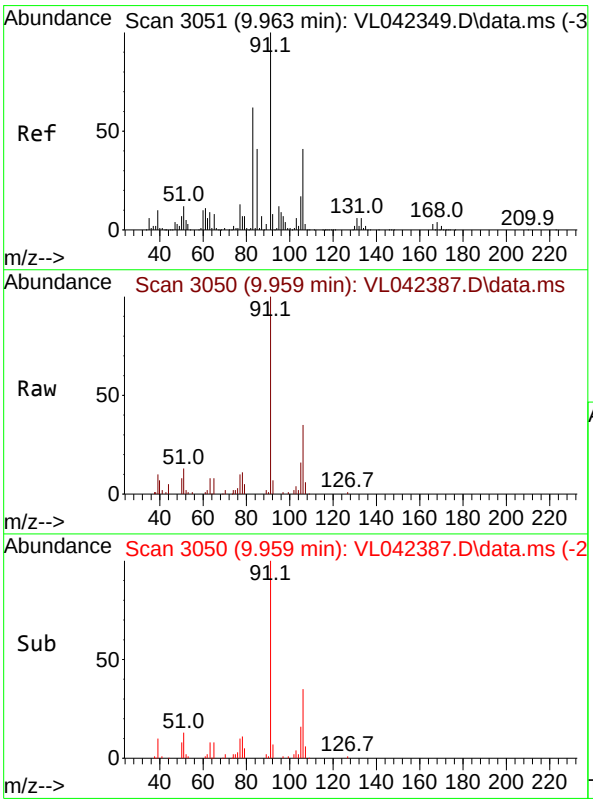
#59
m/p-Xylene
Concen: 0.715 ppbv
RT: 9.526 min Scan# 2
Delta R.T. -0.026 min
Lab File: VL042387.D
Acq: 18 Apr 2025 12:41

Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025DL2

Tgt Ion: 91 Resp: 40839

Ion	Ratio	Lower	Upper
91	100		
106	44.7	35.4	53.2

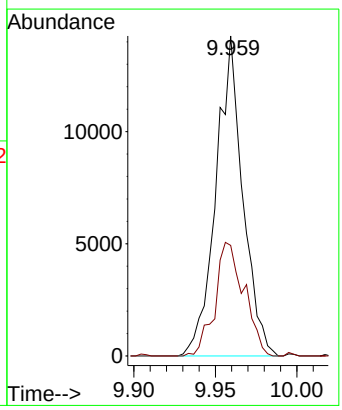


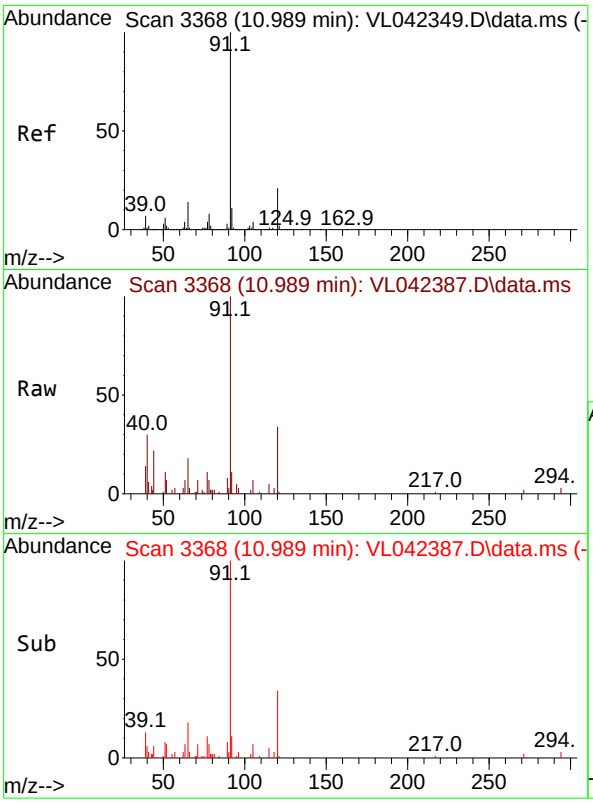


#60
o-Xylene
Concen: 0.284 ppbv
RT: 9.959 min Scan# 3050
Delta R.T. -0.003 min
Lab File: VL042387.D
Acq: 18 Apr 2025 12:41

Tgt Ion: 91 Resp: 16348

Ion	Ratio	Lower	Upper
91	100		
106	38.7	21.1	63.4



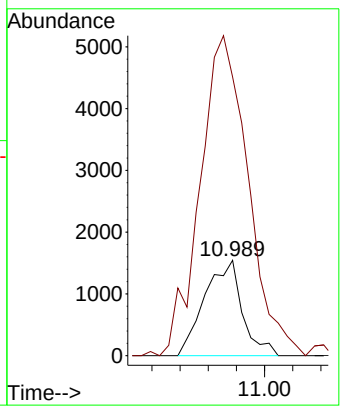


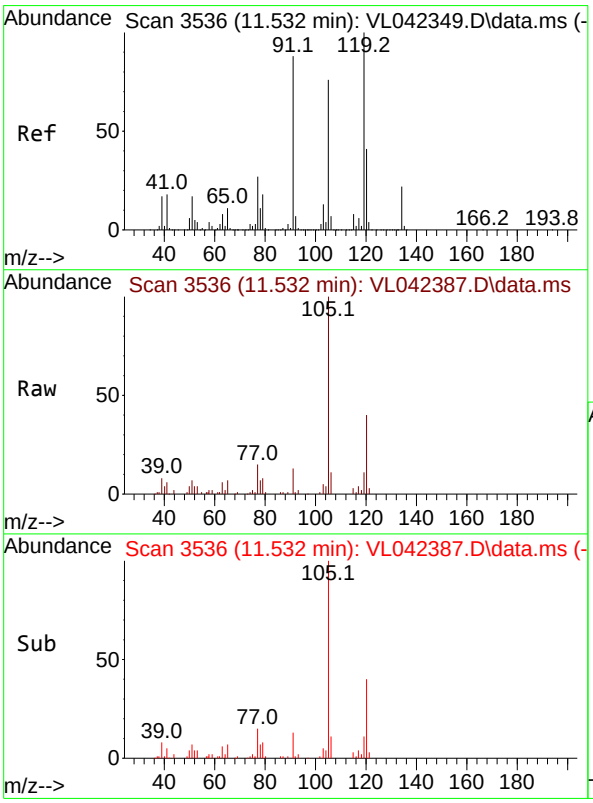
#64
n-propylbenzene
Concen: 0.067 ppbv
RT: 10.989 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042387.D
Acq: 18 Apr 2025 12:41

Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025DL2

Tgt Ion:120 Resp: 1431

Ion	Ratio	Lower	Upper
120	100		
91	434.2	392.4	588.6

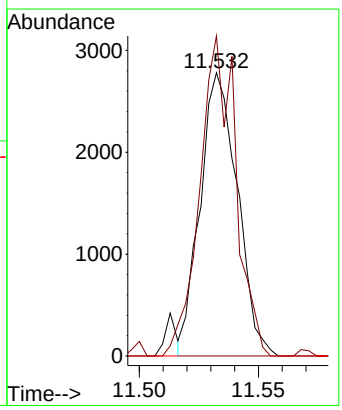


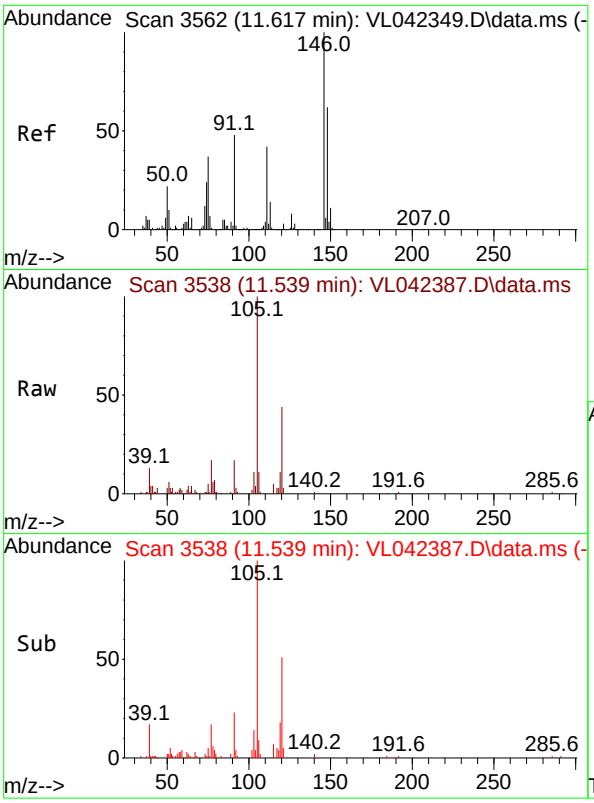


#65
tert-Butylbenzene
Concen: 0.039 ppbv
RT: 11.532 min Scan# 3536
Delta R.T. 0.000 min
Lab File: VL042387.D
Acq: 18 Apr 2025 12:41

Tgt Ion:119 Resp: 3021

Ion	Ratio	Lower	Upper
119	100		
91	111.1	74.6	111.8
134	0.0	18.8	28.2#



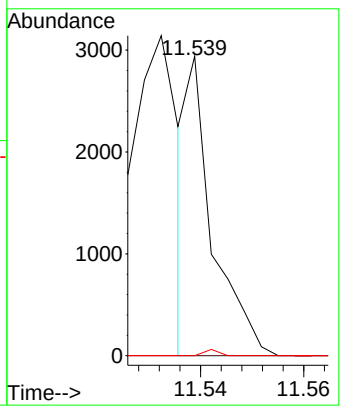


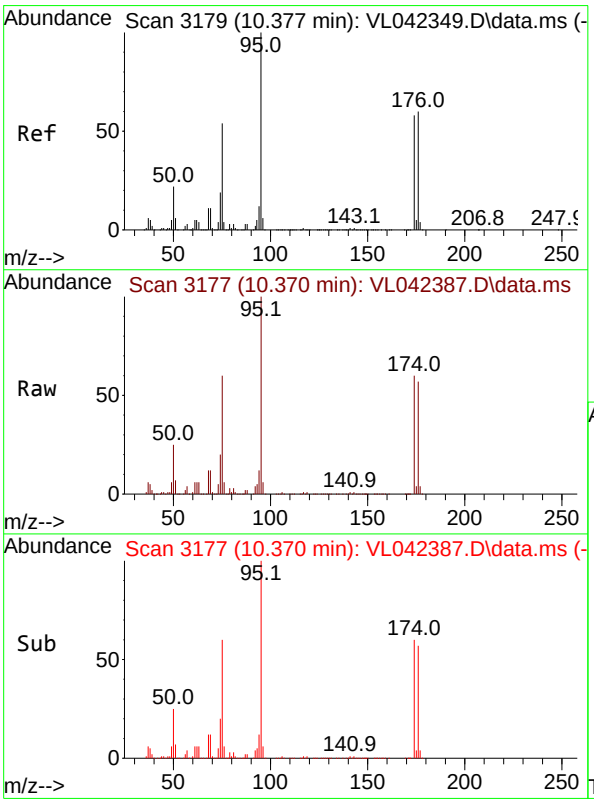
#66
Benzyl Chloride
Concen: 0.118 ppbv
RT: 11.539 min Scan# 3
Delta R.T. -0.078 min
Lab File: VL042387.D
Acq: 18 Apr 2025 12:41

Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025DL2

Tgt Ion: 91 Resp: 1010

Ion	Ratio	Lower	Upper
91	100		
126	0.0	11.8	17.6#
128	0.0	4.5	6.7#

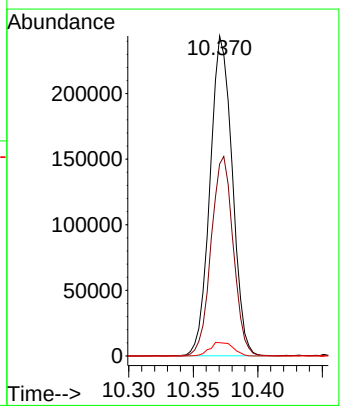


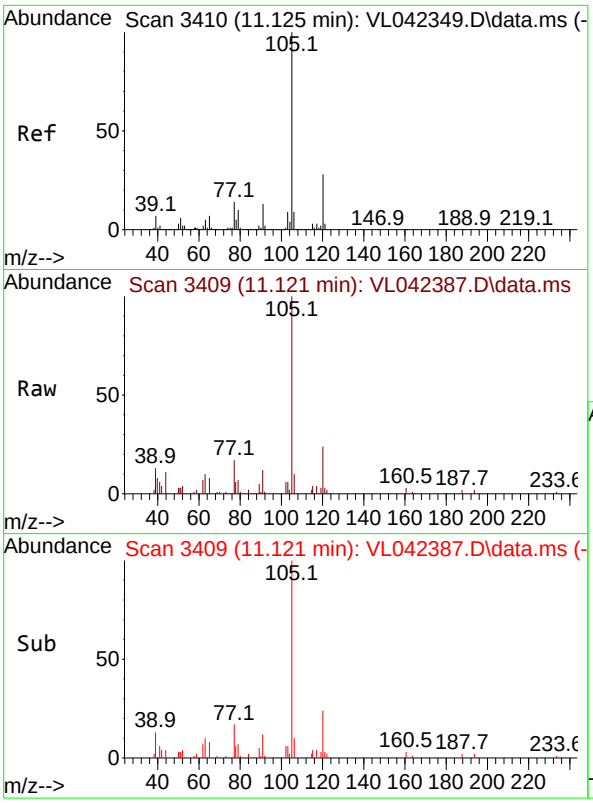


#68
1-Bromo-4-Fluorobenzene
Concen: 9.920 ppbv
RT: 10.370 min Scan# 3177
Delta R.T. -0.006 min
Lab File: VL042387.D
Acq: 18 Apr 2025 12:41

Tgt Ion: 95 Resp: 291643

Ion	Ratio	Lower	Upper
95	100		
174	62.1	48.5	72.7
175	4.5	3.7	5.5



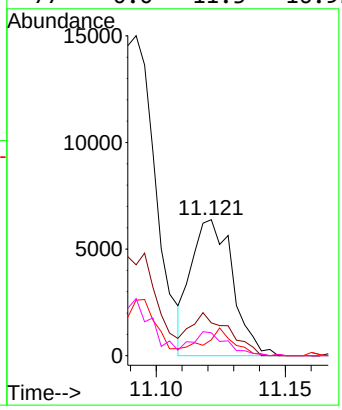


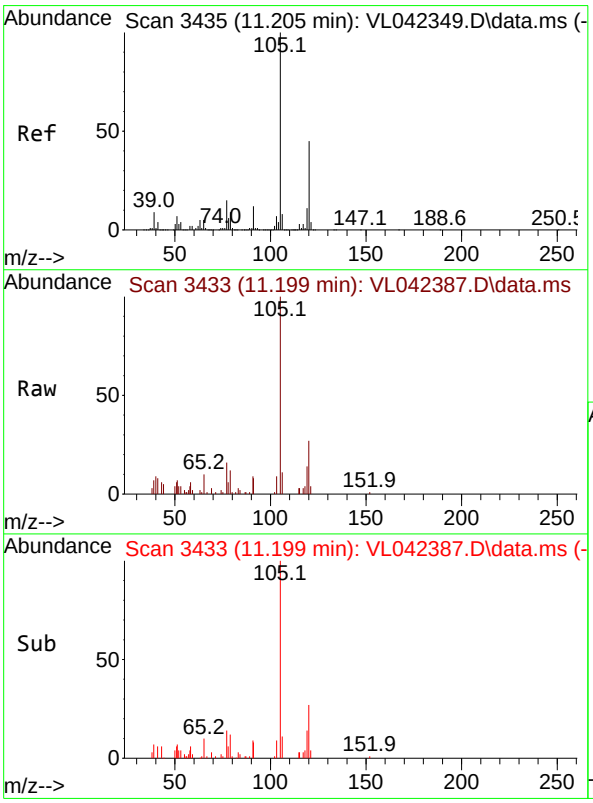
#72
4-Ethyltoluene
Concen: 0.102 ppbv
RT: 11.121 min Scan# 34
Delta R.T. -0.003 min
Lab File: VL042387.D
Acq: 18 Apr 2025 12:41

Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025DL2

Tgt Ion:105 Resp: 7156

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#

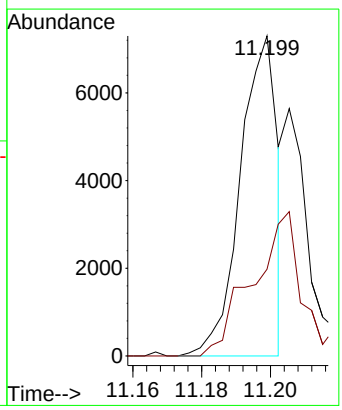


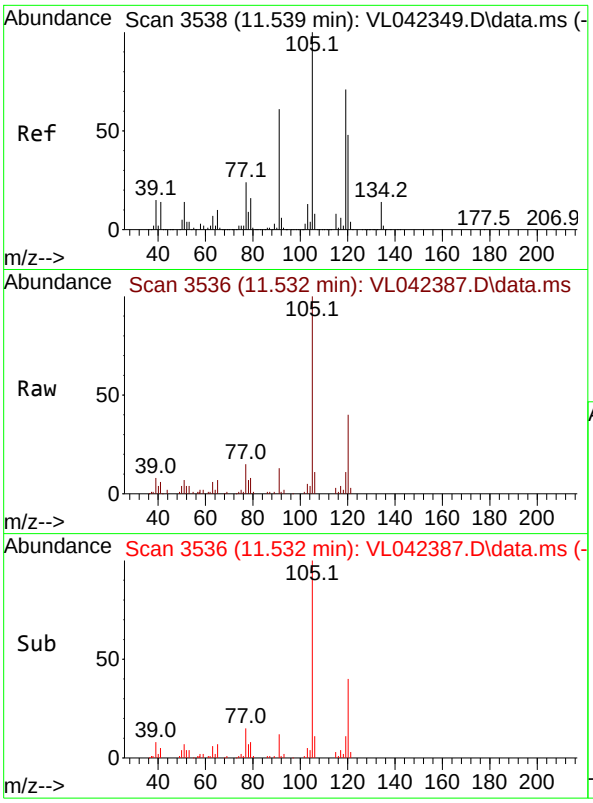


#73
1,3,5-Trimethylbenzene
Concen: 0.088 ppbv
RT: 11.199 min Scan# 3433
Delta R.T. -0.006 min
Lab File: VL042387.D
Acq: 18 Apr 2025 12:41

Tgt Ion:105 Resp: 5458

Ion	Ratio	Lower	Upper
105	100		
120	27.1	35.6	53.4#



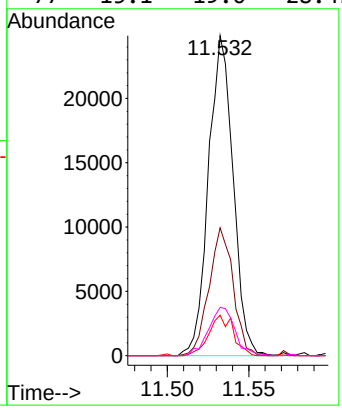


#74
1,2,4-Trimethylbenzene
Concen: 0.360 ppbv
RT: 11.532 min Scan# 3
Delta R.T. -0.006 min
Lab File: VL042387.D
Acq: 18 Apr 2025 12:41

Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025DL2

Tgt Ion:105 Resp: 26096

Ion	Ratio	Lower	Upper
105	100		
120	40.0	38.1	57.1
91	12.6	48.8	73.2#
77	15.1	19.0	28.4#



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041825\
Data File : VL042388.D
Acq On : 18 Apr 2025 13:12
Operator : SY/MD
Sample : Q1726-02DL2 40X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025DL2

Quant Time: Apr 18 22:58:20 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

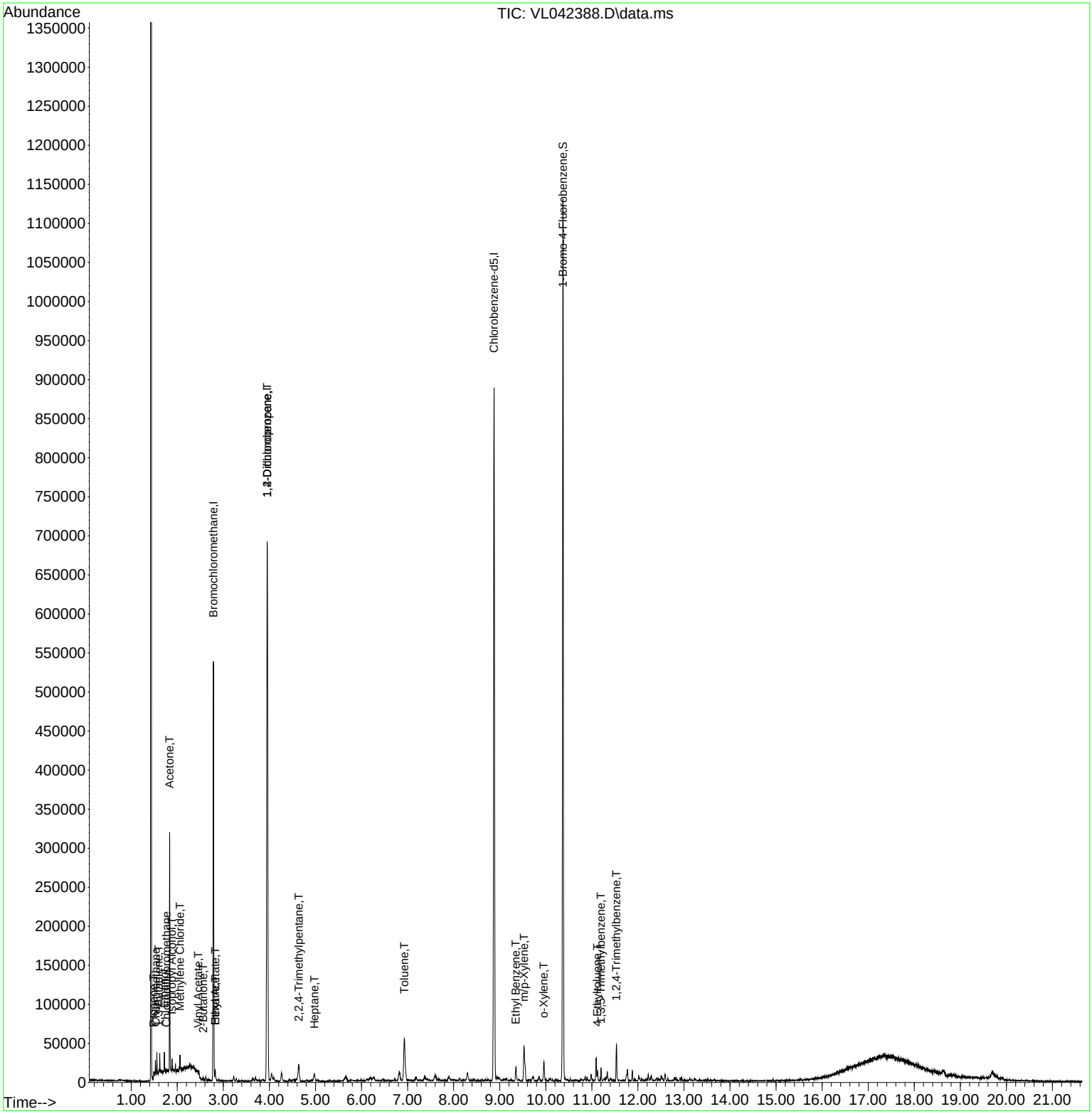
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.784	49	132986	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	409322	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	354583	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.370	95	288297	9.894	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 98.900%			
Target Compounds						Qvalue
3) Chlorodifluoromethane	1.764	51	819	0.037	ppbv	99
4) Chloromethane	1.531	50	1157	0.124	ppbv #	76
9) Propene	1.489	41	1101	0.108	ppbv #	80
10) Heptane	4.975	43	1622	0.057	ppbv #	22
13) Ethanol	1.719	45	8476	5.234	ppbv	85
15) Acetone	1.832	43	132763	6.098	ppbv	98
16) 1,3-Butadiene	1.596	39	936	0.090	ppbv #	9
19) Isopropyl Alcohol	1.884	45	7402	0.612	ppbv #	1
20) Methylene Chloride	2.059	84	2832	0.332	ppbv	88
23) Vinyl Acetate	2.454	43	996	0.113	ppbv #	78
25) Ethyl Acetate	2.823	43	2191	0.041	ppbv #	82
26) Hexane	2.823	57	3262	0.150	ppbv #	37
34) 2-Butanone	2.560	43	1698	0.052	ppbv #	80
39) 1,2-Dichloropropane	3.952	63	105929	6.439	ppbv #	23
44) 2,2,4-Trimethylpentane	4.638	57	16039	0.210	ppbv #	83
53) Toluene	6.930	91	36363	0.686	ppbv	100
58) Ethyl Benzene	9.348	91	6095	0.087	ppbv #	88
59) m/p-Xylene	9.526	91	27952	0.494	ppbv	96
60) o-Xylene	9.956	91	9433	0.166	ppbv	80
72) 4-Ethyltoluene	11.121	105	5468	0.078	ppbv #	80
73) 1,3,5-Trimethylbenzene	11.199	105	5228	0.085	ppbv #	86
74) 1,2,4-Trimethylbenzene	11.532	105	17448	0.243	ppbv #	63

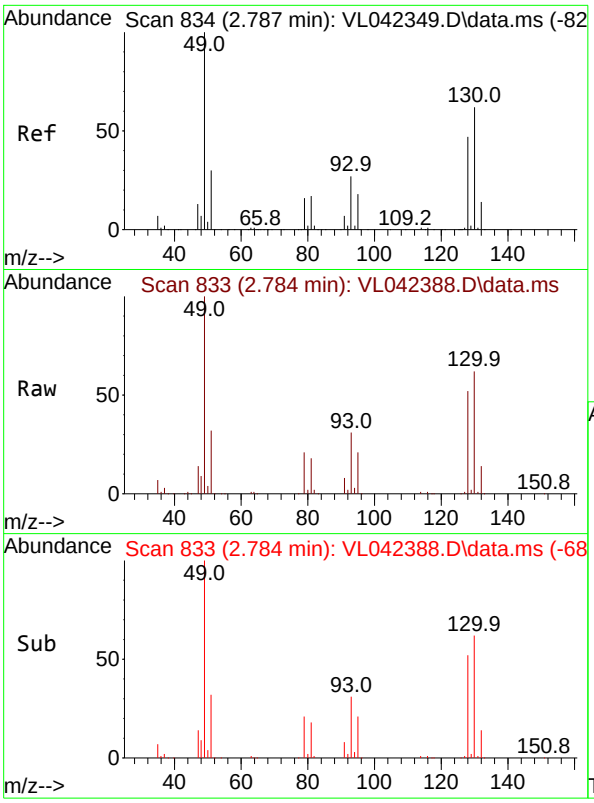
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041825\
Data File : VL042388.D
Acq On : 18 Apr 2025 13:12
Operator : SY/MD
Sample : Q1726-02DL2 40X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025DL2

Quant Time: Apr 18 22:58:20 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



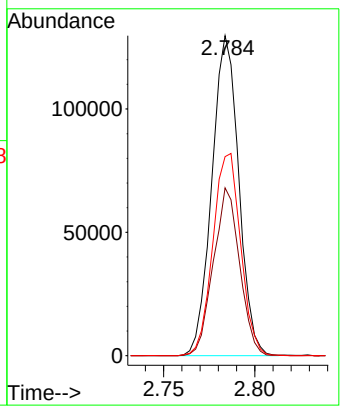


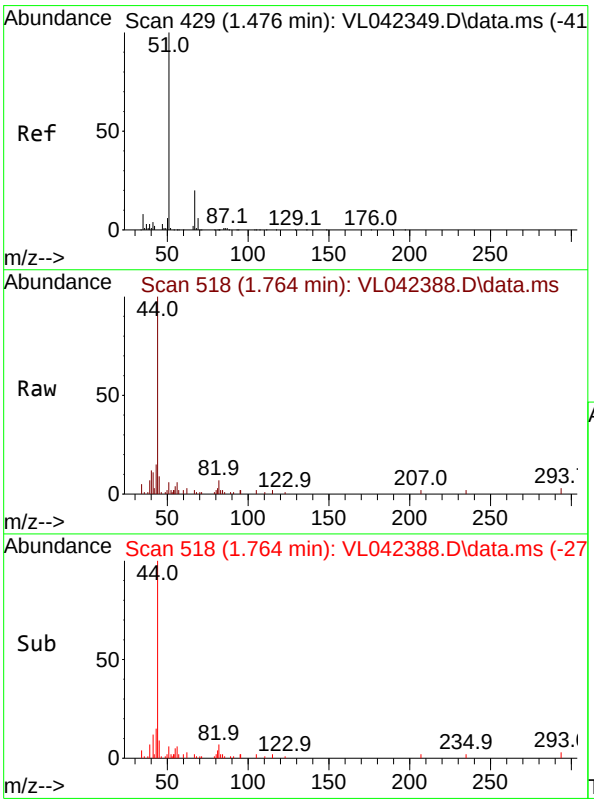
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 8
Delta R.T. -0.003 min
Lab File: VL042388.D
Acq: 18 Apr 2025 13:12

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025DL2

Tgt Ion: 49 Resp: 132986

Ion	Ratio	Lower	Upper
49	100		
128	51.2	22.8	68.4
130	65.3	29.3	88.0

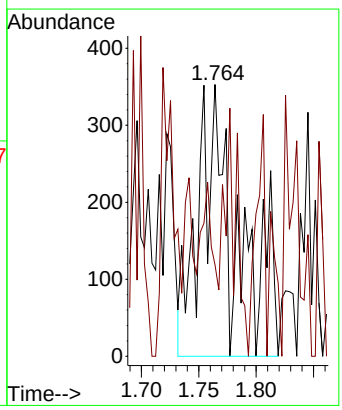


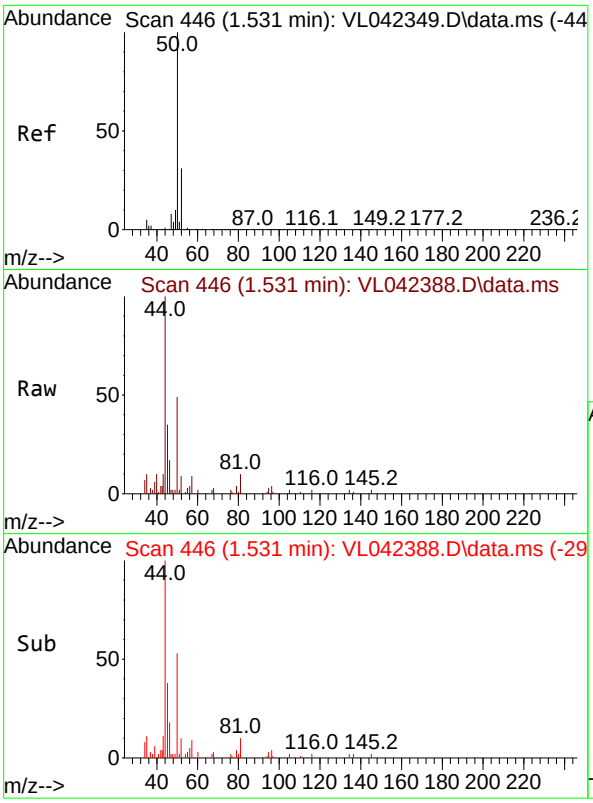


#3
Chlorodifluoromethane
Concen: 0.037 ppbv
RT: 1.764 min Scan# 518
Delta R.T. 0.288 min
Lab File: VL042388.D
Acq: 18 Apr 2025 13:12

Tgt Ion: 51 Resp: 819

Ion	Ratio	Lower	Upper
51	100		
67	19.7	16.2	24.4



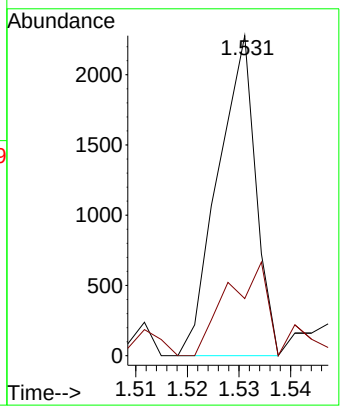


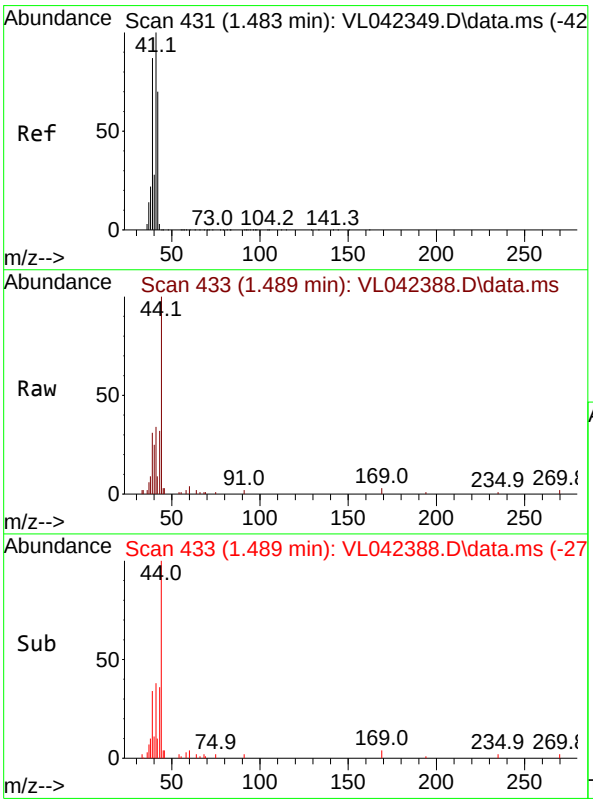
#4
Chloromethane
Concen: 0.124 ppbv
RT: 1.531 min Scan# 44
Delta R.T. -0.000 min
Lab File: VL042388.D
Acq: 18 Apr 2025 13:12

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025DL2

Tgt Ion: 50 Resp: 1157

Ion	Ratio	Lower	Upper
50	100		
52	17.9	24.7	37.1#

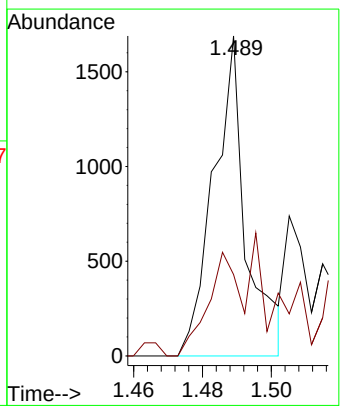


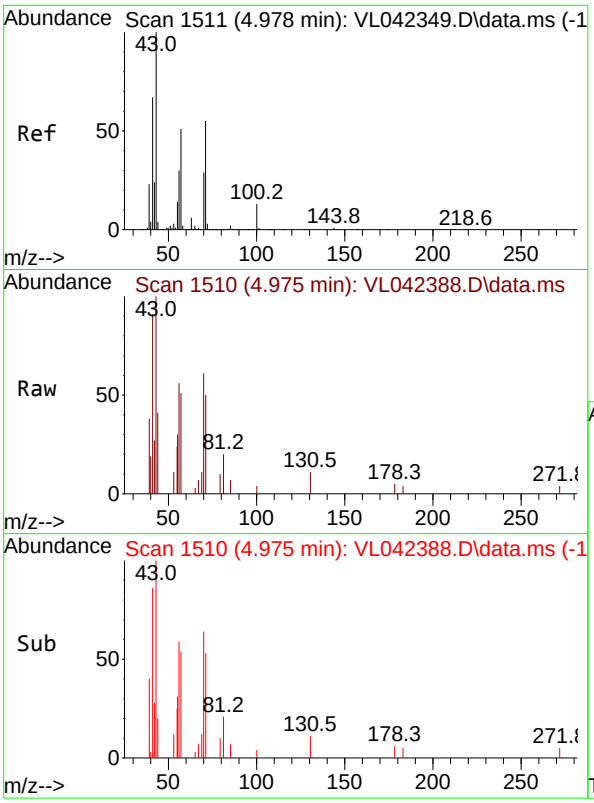


#9
Propene
Concen: 0.108 ppbv
RT: 1.489 min Scan# 433
Delta R.T. 0.006 min
Lab File: VL042388.D
Acq: 18 Apr 2025 13:12

Tgt Ion: 41 Resp: 1101

Ion	Ratio	Lower	Upper
41	100		
42	86.9	56.2	84.4#



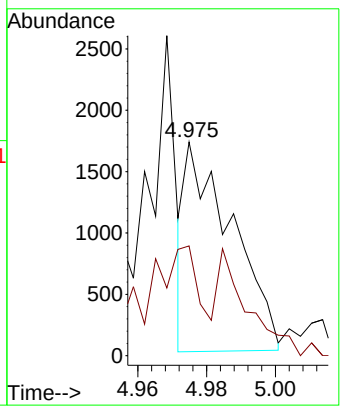


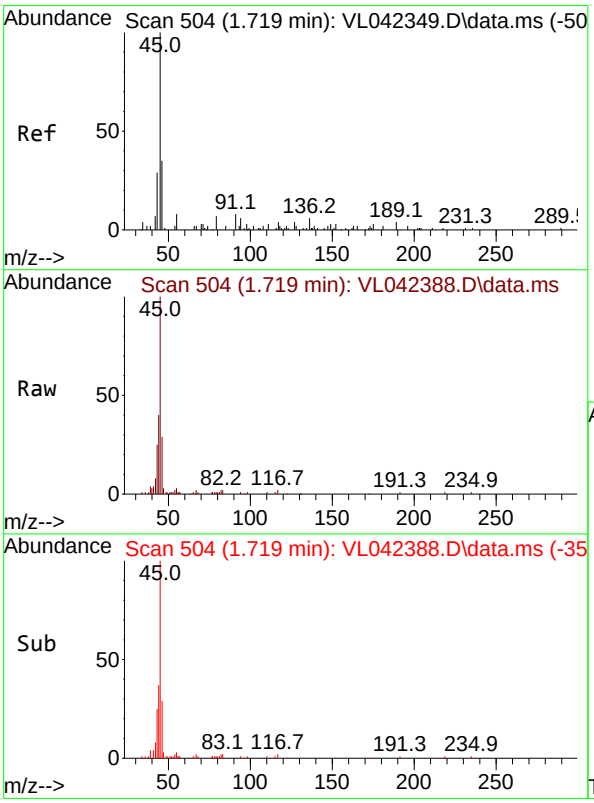
#10
Heptane
Concen: 0.057 ppbv
RT: 4.975 min Scan# 1
Delta R.T. -0.003 min
Lab File: VL042388.D
Acq: 18 Apr 2025 13:12

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025DL2

Tgt Ion: 43 Resp: 1622

Ion	Ratio	Lower	Upper
43	100		
57	103.4	39.9	59.9#

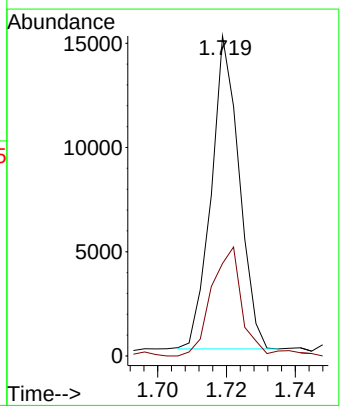


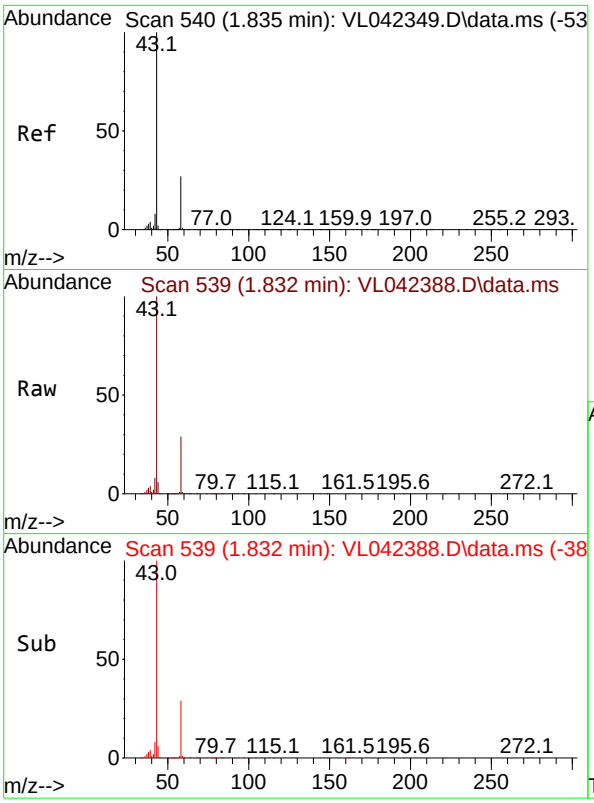


#13
Ethanol
Concen: 5.234 ppbv
RT: 1.719 min Scan# 504
Delta R.T. -0.000 min
Lab File: VL042388.D
Acq: 18 Apr 2025 13:12

Tgt Ion: 45 Resp: 8476

Ion	Ratio	Lower	Upper
45	100		
46	44.0	21.9	87.7



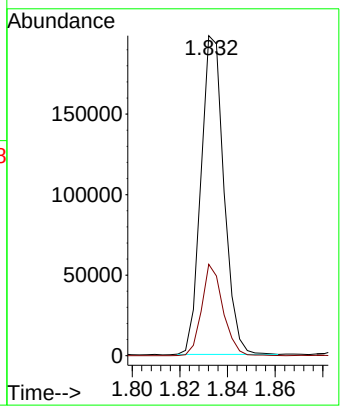


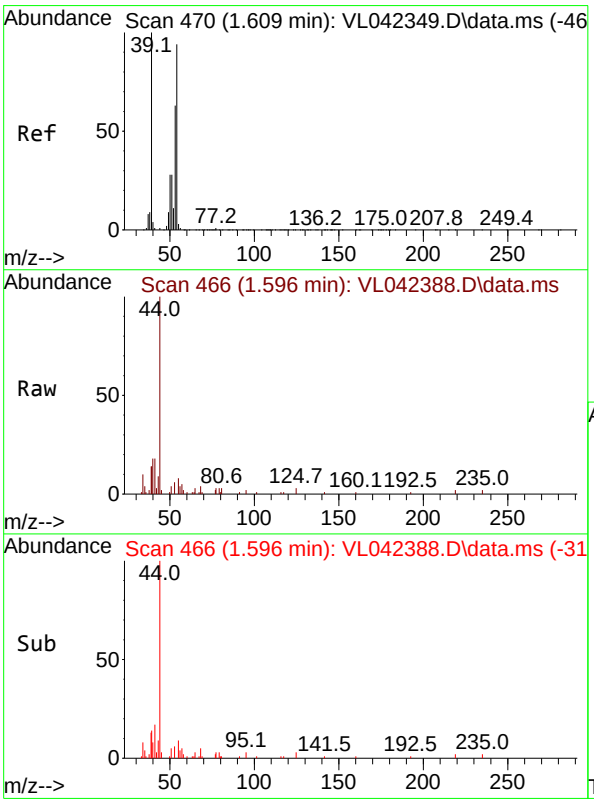
#15
Acetone
Concen: 6.098 ppbv
RT: 1.832 min Scan# 5
Delta R.T. -0.003 min
Lab File: VL042388.D
Acq: 18 Apr 2025 13:12

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025DL2

Tgt Ion: 43 Resp: 132763

Ion	Ratio	Lower	Upper
43	100		
58	26.9	22.4	33.6

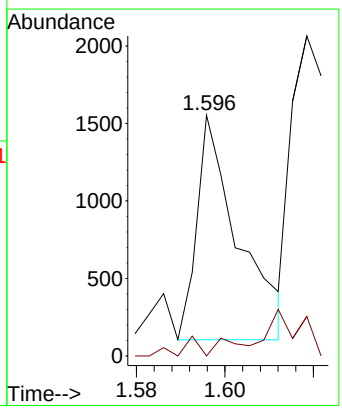


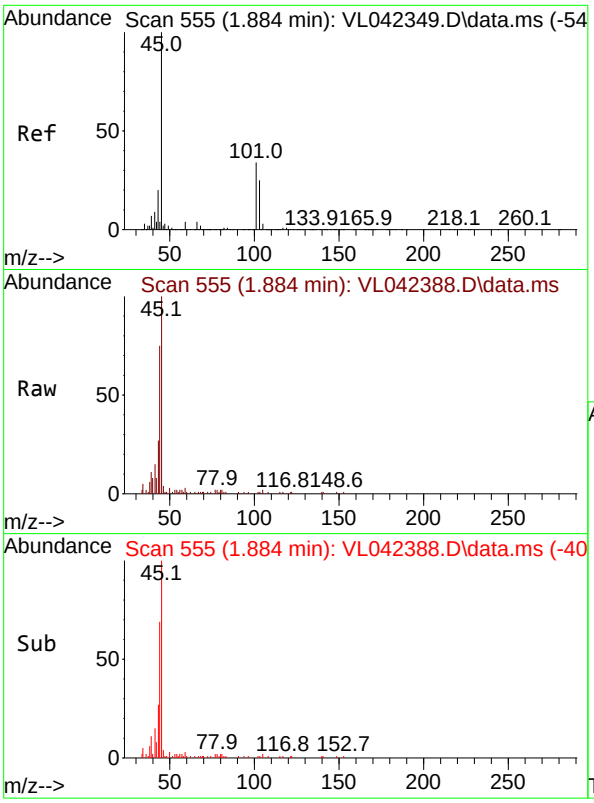


#16
1,3-Butadiene
Concen: 0.090 ppbv
RT: 1.596 min Scan# 466
Delta R.T. -0.013 min
Lab File: VL042388.D
Acq: 18 Apr 2025 13:12

Tgt Ion: 39 Resp: 936

Ion	Ratio	Lower	Upper
39	100		
54	0.0	64.9	97.3#



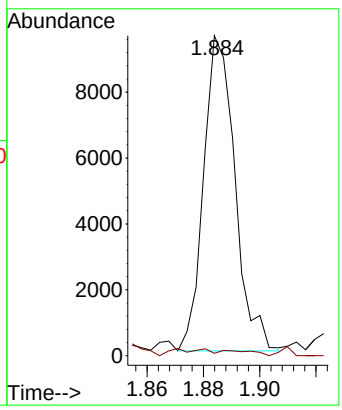


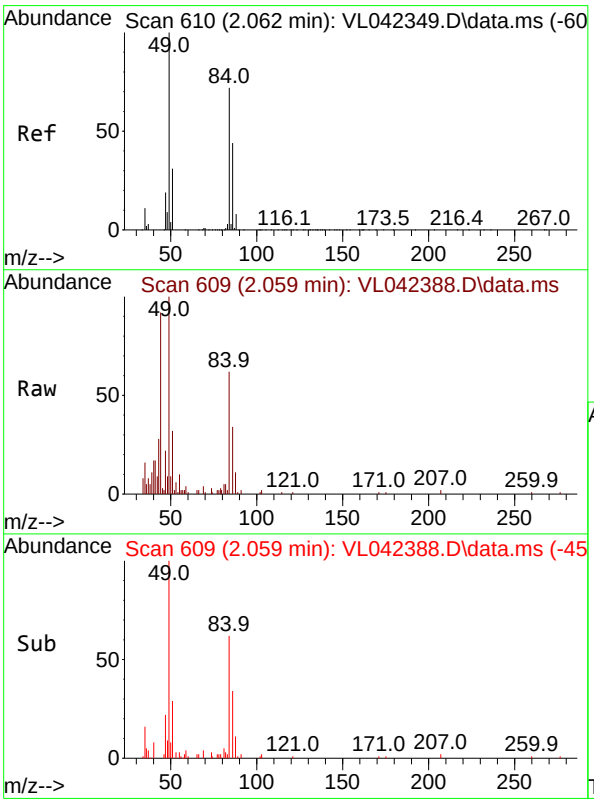
#19
Isopropyl Alcohol
Concen: 0.612 ppbv
RT: 1.884 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL042388.D
Acq: 18 Apr 2025 13:12

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025DL2

Tgt Ion: 45 Resp: 7402

Ion	Ratio	Lower	Upper
45	100		
58	482.1	34.5	51.7#

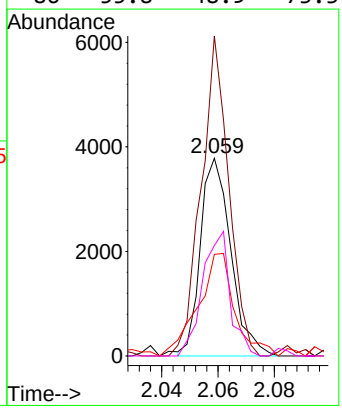


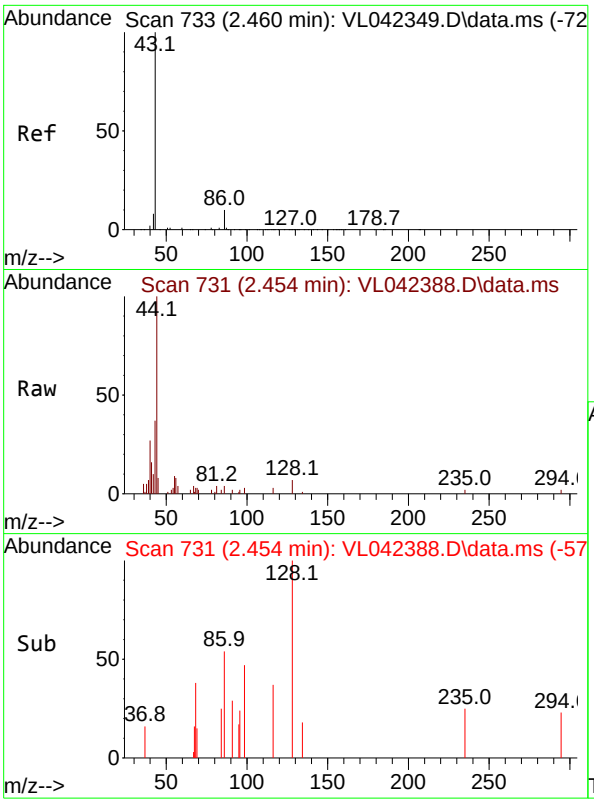


#20
Methylene Chloride
Concen: 0.332 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.003 min
Lab File: VL042388.D
Acq: 18 Apr 2025 13:12

Tgt Ion: 84 Resp: 2832

Ion	Ratio	Lower	Upper
84	100		
49	159.8	111.6	167.4
51	47.1	35.1	52.7
86	55.8	48.9	73.3



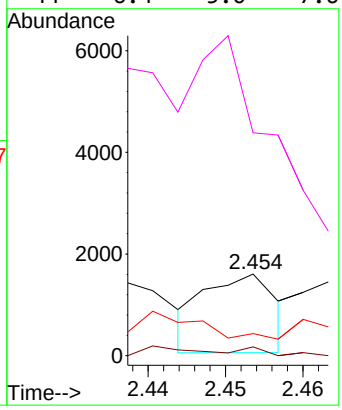


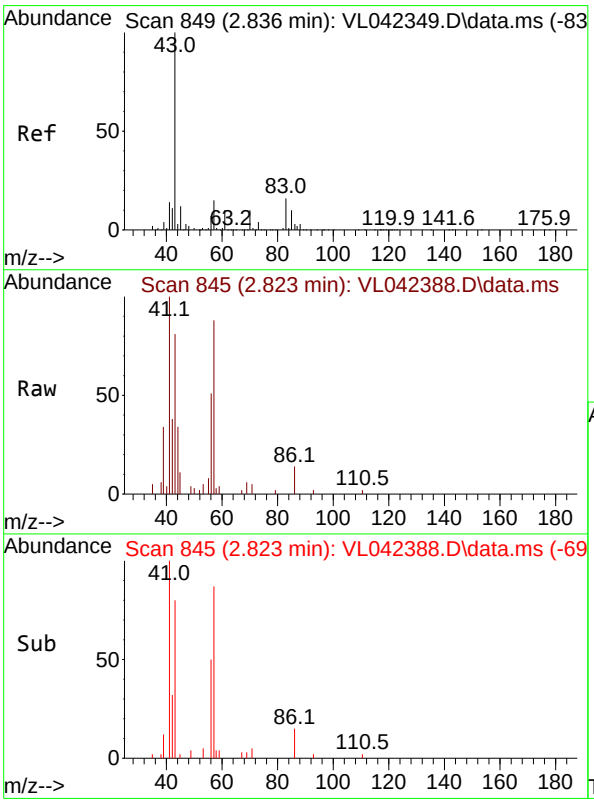
#23
Vinyl Acetate
Concen: 0.113 ppbv
RT: 2.454 min Scan# 7
Delta R.T. -0.006 min
Lab File: VL042388.D
Acq: 18 Apr 2025 13:12

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025DL2

Tgt Ion: 43 Resp: 996

Ion	Ratio	Lower	Upper
43	100		
86	24.6	6.5	9.7#
42	15.9	7.8	11.8#
44	6.4	5.0	7.6

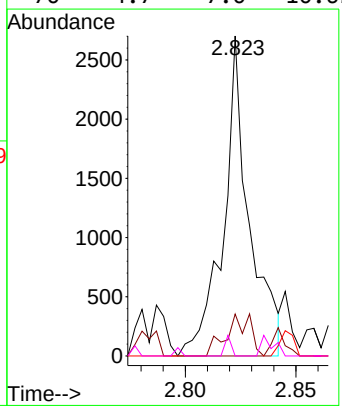


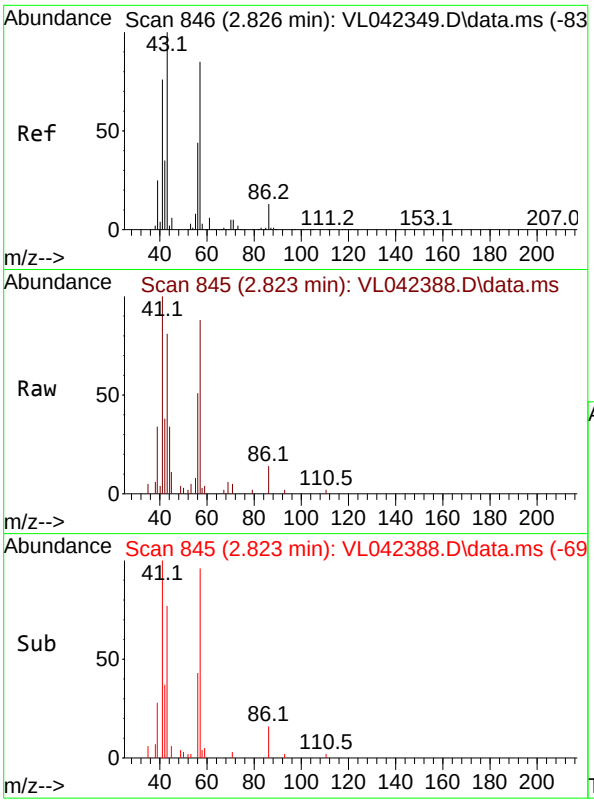


#25
Ethyl Acetate
Concen: 0.041 ppbv
RT: 2.823 min Scan# 845
Delta R.T. -0.013 min
Lab File: VL042388.D
Acq: 18 Apr 2025 13:12

Tgt Ion: 43 Resp: 2191

Ion	Ratio	Lower	Upper
43	100		
45	16.5	8.3	12.5#
61	0.0	7.3	10.9#
70	4.7	7.0	10.6#



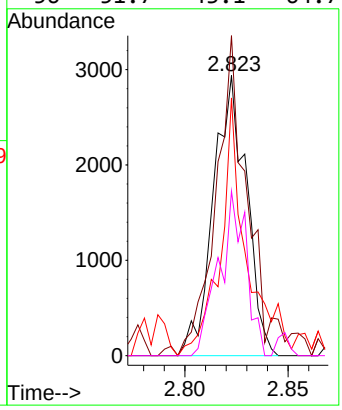


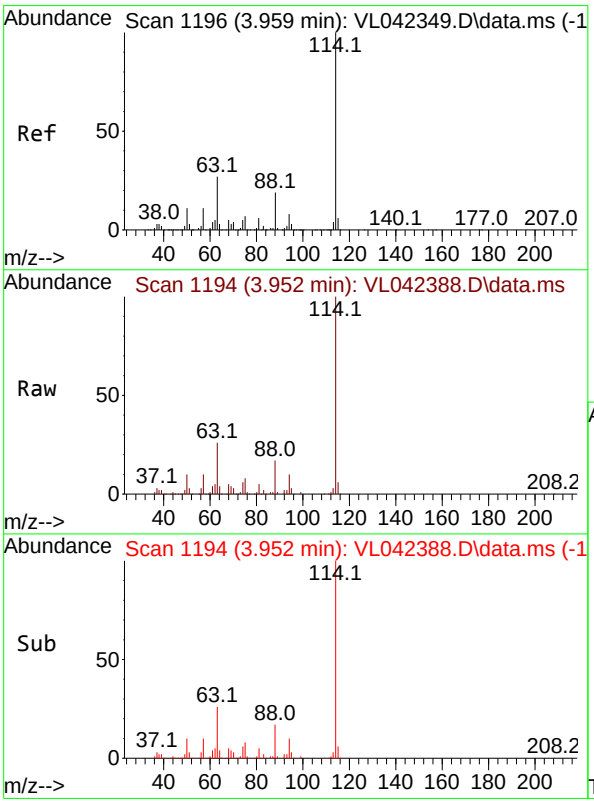
#26
Hexane
Concen: 0.150 ppbv
RT: 2.823 min Scan# 84
Delta R.T. -0.003 min
Lab File: VL042388.D
Acq: 18 Apr 2025 13:12

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025DL2

Tgt Ion: 57 Resp: 3262

Ion	Ratio	Lower	Upper
57	100		
41	117.7	77.9	116.9#
43	95.9	208.4	312.6#
56	51.7	43.1	64.7

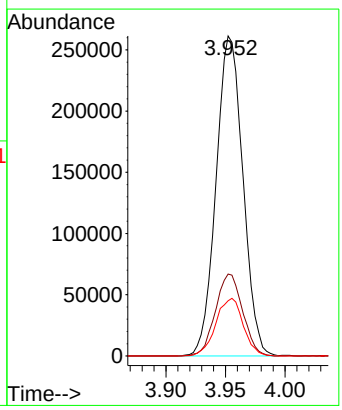


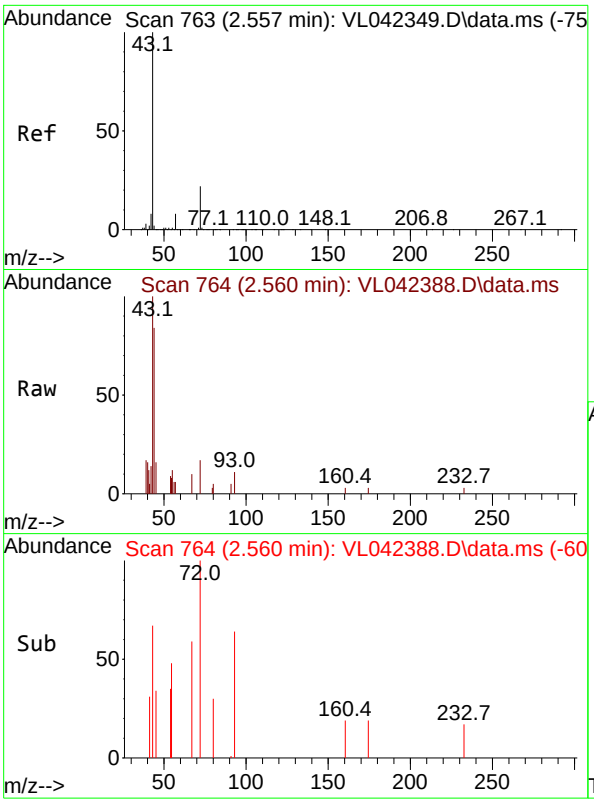


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.952 min Scan# 1194
Delta R.T. -0.006 min
Lab File: VL042388.D
Acq: 18 Apr 2025 13:12

Tgt Ion:114 Resp: 409322

Ion	Ratio	Lower	Upper
114	100		
63	25.9	21.8	32.6
88	18.4	15.5	23.3



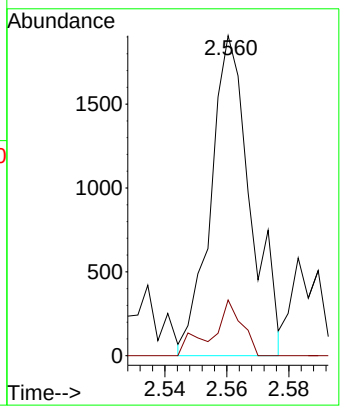


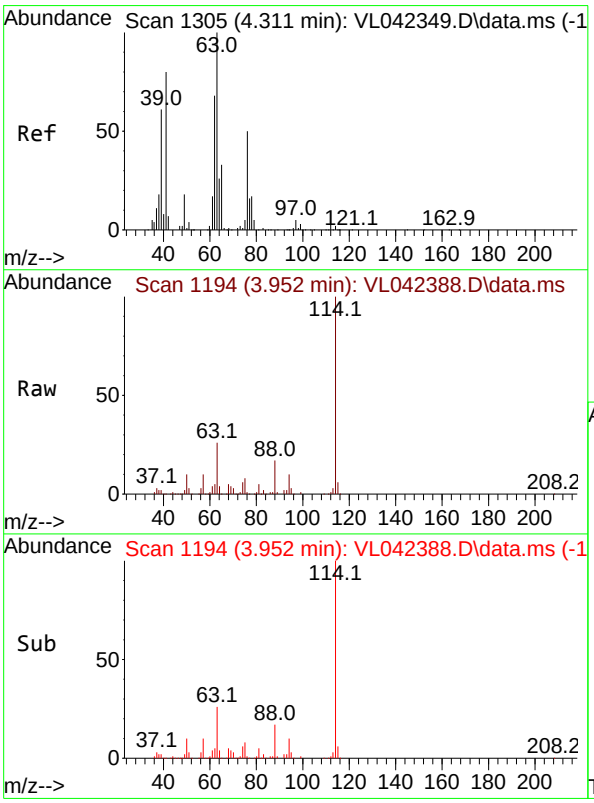
#34
2-Butanone
Concen: 0.052 ppbv
RT: 2.560 min Scan# 7
Delta R.T. 0.003 min
Lab File: VL042388.D
Acq: 18 Apr 2025 13:12

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025DL2

Tgt Ion: 43 Resp: 1698

Ion	Ratio	Lower	Upper
43	100		
72	13.2	18.2	27.2#

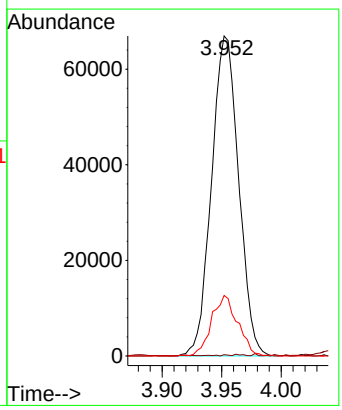


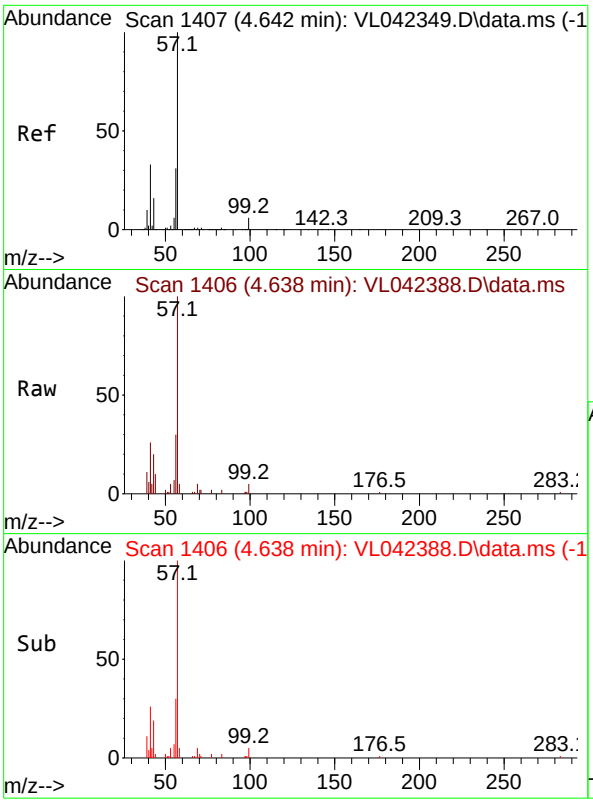


#39
1,2-Dichloropropane
Concen: 6.439 ppbv
RT: 3.952 min Scan# 1194
Delta R.T. -0.359 min
Lab File: VL042388.D
Acq: 18 Apr 2025 13:12

Tgt Ion: 63 Resp: 105929

Ion	Ratio	Lower	Upper
63	100		
41	0.2	64.2	96.2#
62	18.9	54.3	81.5#



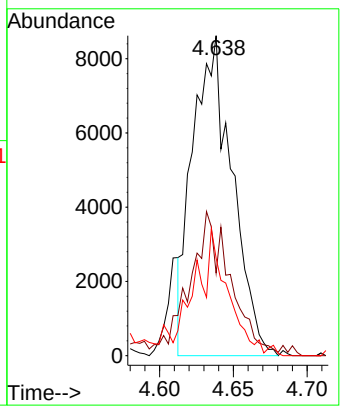


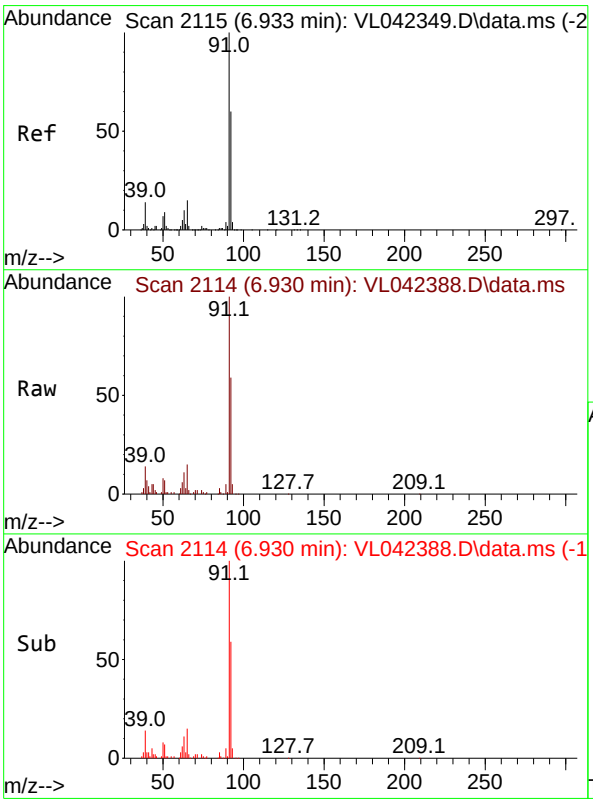
#44
2,2,4-Trimethylpentane
Concen: 0.210 ppbv
RT: 4.638 min Scan# 14
Delta R.T. -0.003 min
Lab File: VL042388.D
Acq: 18 Apr 2025 13:12

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025DL2

Tgt Ion: 57 Resp: 16039

Ion	Ratio	Lower	Upper
57	100		
41	50.5	27.2	40.8#
56	35.1	25.7	38.5

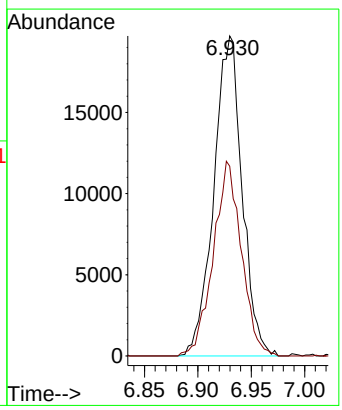


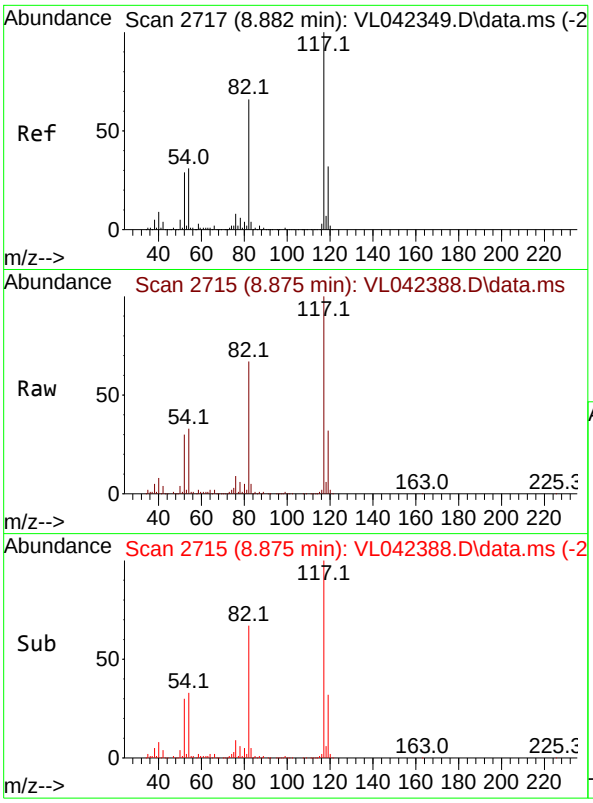


#53
Toluene
Concen: 0.686 ppbv
RT: 6.930 min Scan# 2114
Delta R.T. -0.003 min
Lab File: VL042388.D
Acq: 18 Apr 2025 13:12

Tgt Ion: 91 Resp: 36363

Ion	Ratio	Lower	Upper
91	100		
92	60.4	48.2	72.4



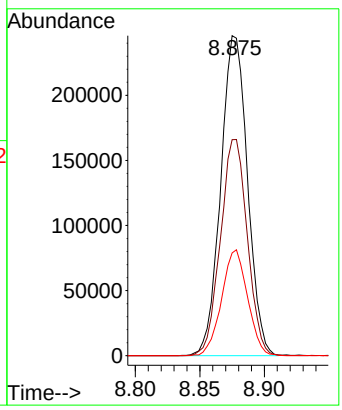


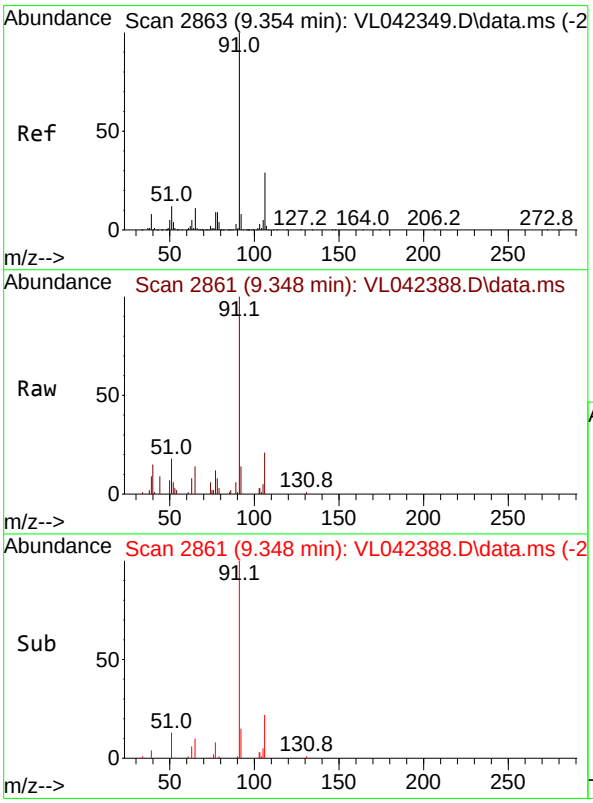
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 2
Delta R.T. -0.007 min
Lab File: VL042388.D
Acq: 18 Apr 2025 13:12

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025DL2

Tgt Ion:117 Resp: 354583

Ion	Ratio	Lower	Upper
117	100		
82	67.7	57.8	86.6
119	32.1	25.2	37.8

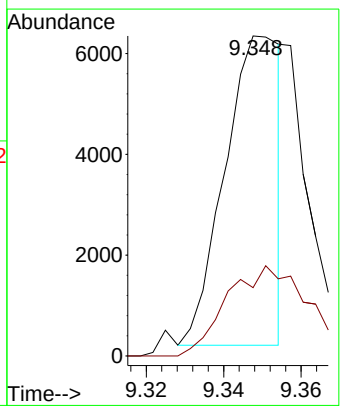


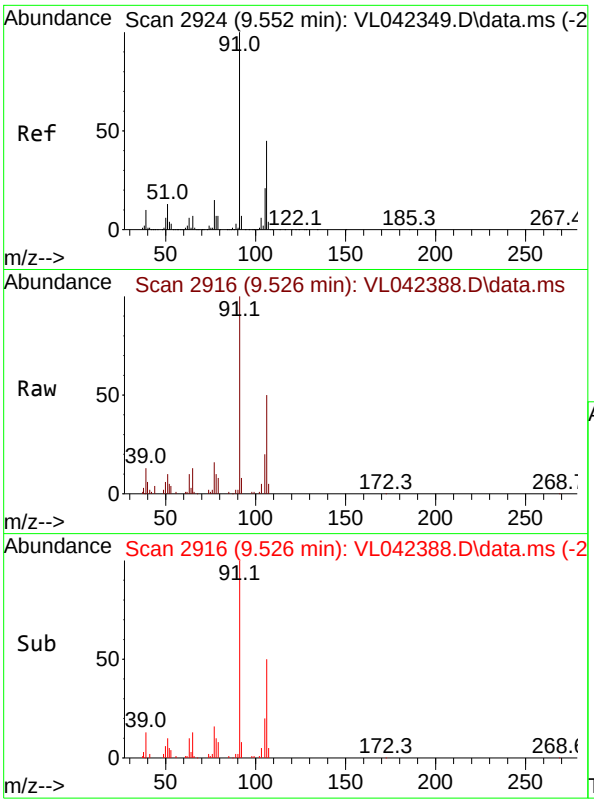


#58
Ethyl Benzene
Concen: 0.087 ppbv
RT: 9.348 min Scan# 2861
Delta R.T. -0.007 min
Lab File: VL042388.D
Acq: 18 Apr 2025 13:12

Tgt Ion: 91 Resp: 6095

Ion	Ratio	Lower	Upper
91	100		
106	22.1	23.0	34.4#



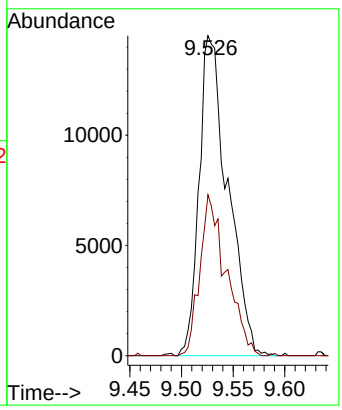


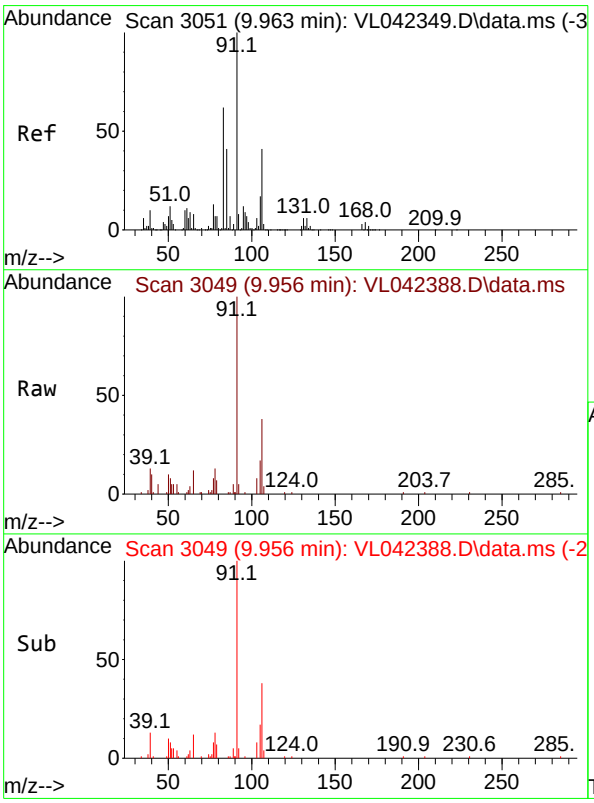
#59
m/p-Xylene
Concen: 0.494 ppbv
RT: 9.526 min Scan# 2
Delta R.T. -0.026 min
Lab File: VL042388.D
Acq: 18 Apr 2025 13:12

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025DL2

Tgt Ion: 91 Resp: 27952

Ion	Ratio	Lower	Upper
91	100		
106	46.6	35.4	53.2

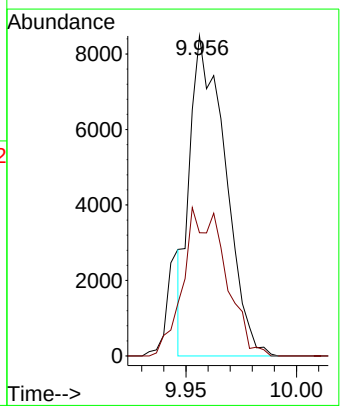


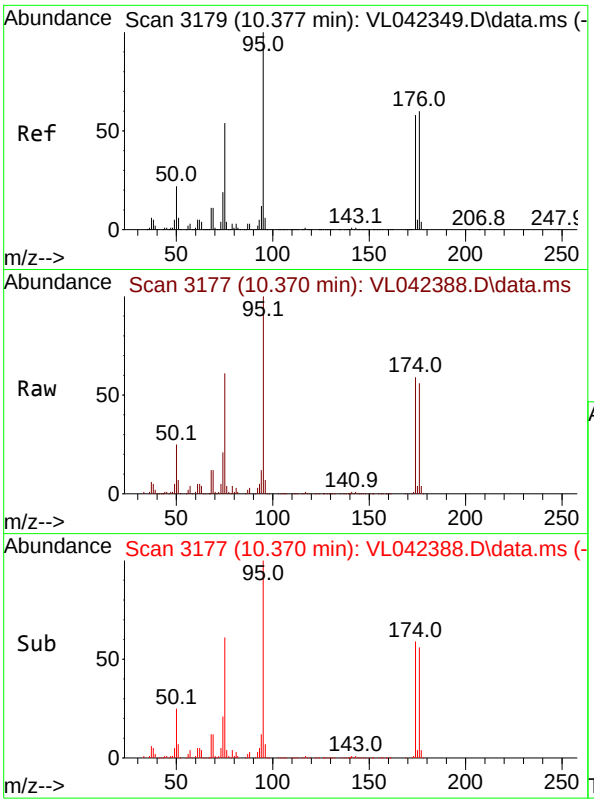


#60
o-Xylene
Concen: 0.166 ppbv
RT: 9.956 min Scan# 3049
Delta R.T. -0.006 min
Lab File: VL042388.D
Acq: 18 Apr 2025 13:12

Tgt Ion: 91 Resp: 9433

Ion	Ratio	Lower	Upper
91	100		
106	55.1	21.1	63.4



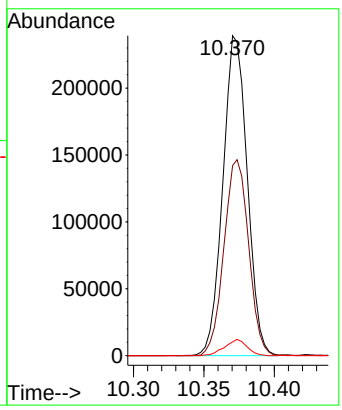


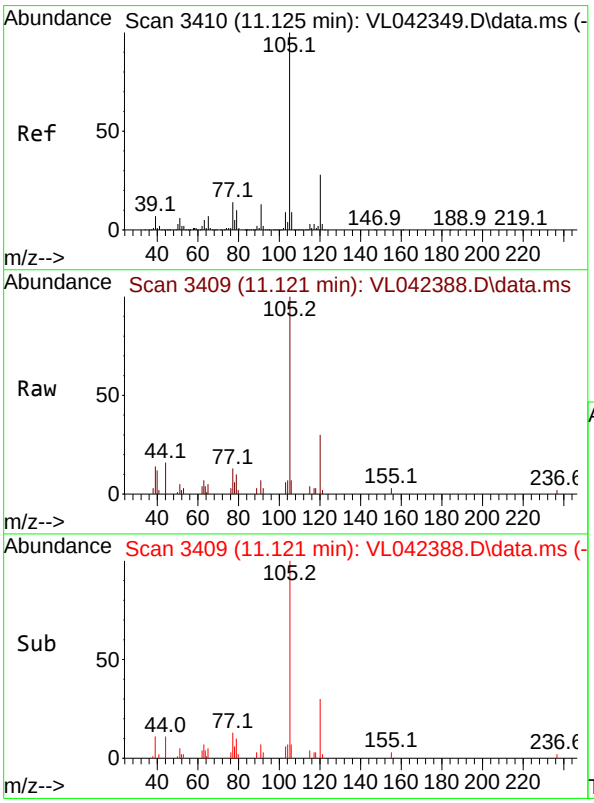
#68
1-Bromo-4-Fluorobenzene
Concen: 9.894 ppbv
RT: 10.370 min Scan# 3
Delta R.T. -0.006 min
Lab File: VL042388.D
Acq: 18 Apr 2025 13:12

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025DL2

Tgt Ion: 95 Resp: 288297

Ion	Ratio	Lower	Upper
95	100		
174	62.2	48.5	72.7
175	4.7	3.7	5.5

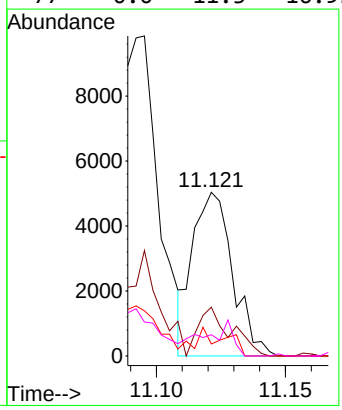


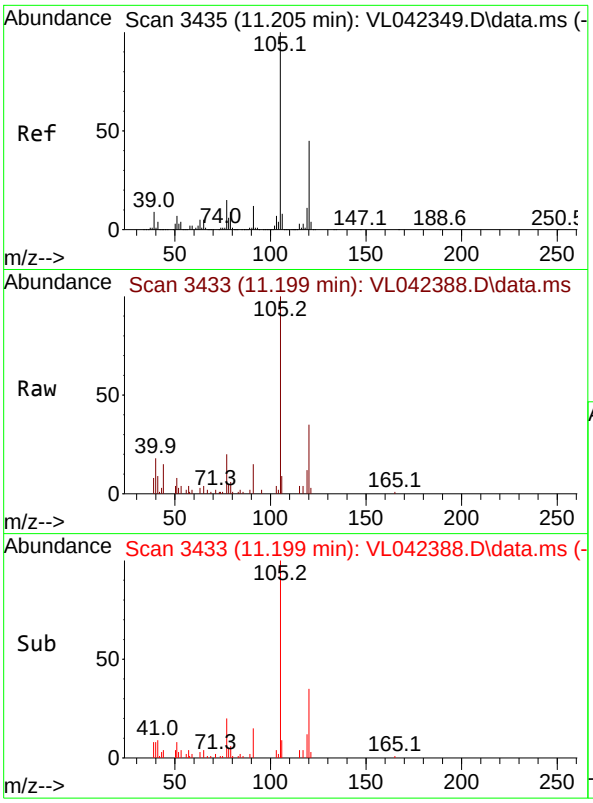


#72
4-Ethyltoluene
Concen: 0.078 ppbv
RT: 11.121 min Scan# 3409
Delta R.T. -0.003 min
Lab File: VL042388.D
Acq: 18 Apr 2025 13:12

Tgt Ion:105 Resp: 5468

Ion	Ratio	Lower	Upper
105	100		
120	24.8	23.2	34.8
91	0.0	10.4	15.6#
77	0.0	11.3	16.9#



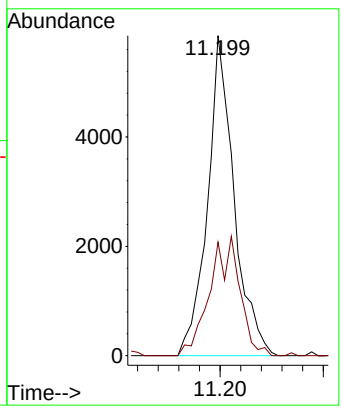


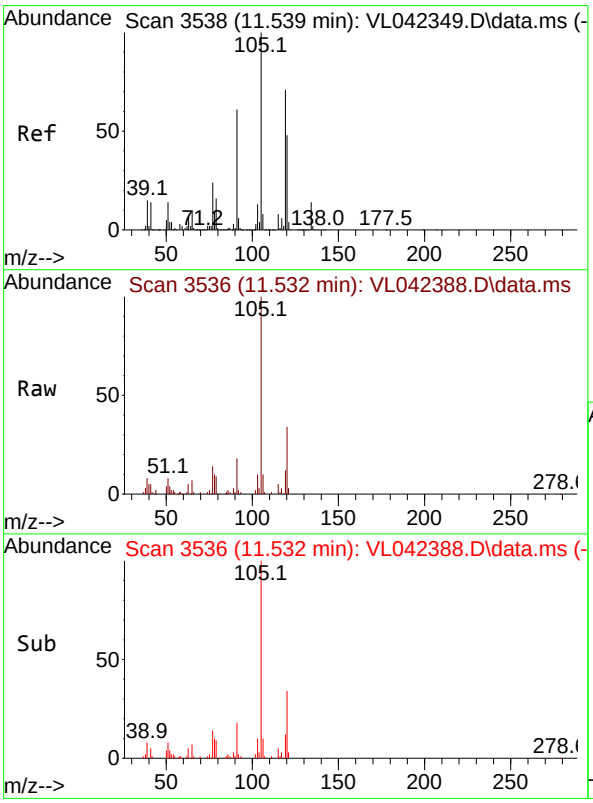
#73
1,3,5-Trimethylbenzene
Concen: 0.085 ppbv
RT: 11.199 min Scan# 3
Delta R.T. -0.007 min
Lab File: VL042388.D
Acq: 18 Apr 2025 13:12

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025DL2

Tgt Ion:105 Resp: 5228

Ion	Ratio	Lower	Upper
105	100		
120	35.4	35.6	53.4#

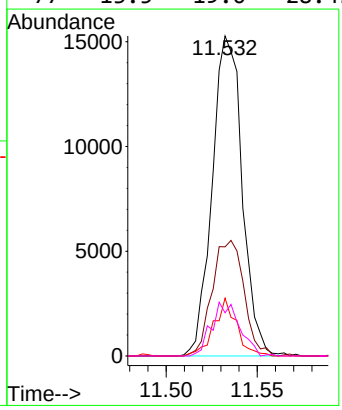




#74
1,2,4-Trimethylbenzene
Concen: 0.243 ppbv
RT: 11.532 min Scan# 3536
Delta R.T. -0.007 min
Lab File: VL042388.D
Acq: 18 Apr 2025 13:12

Tgt Ion:105 Resp: 17448

Ion	Ratio	Lower	Upper
105	100		
120	34.1	38.1	57.1#
91	18.1	48.8	73.2#
77	13.5	19.0	28.4#



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041825\
Data File : VL042389.D
Acq On : 18 Apr 2025 13:43
Operator : SY/MD
Sample : Q1726-04DL2 40X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025DL2

Quant Time: Apr 18 22:58:55 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

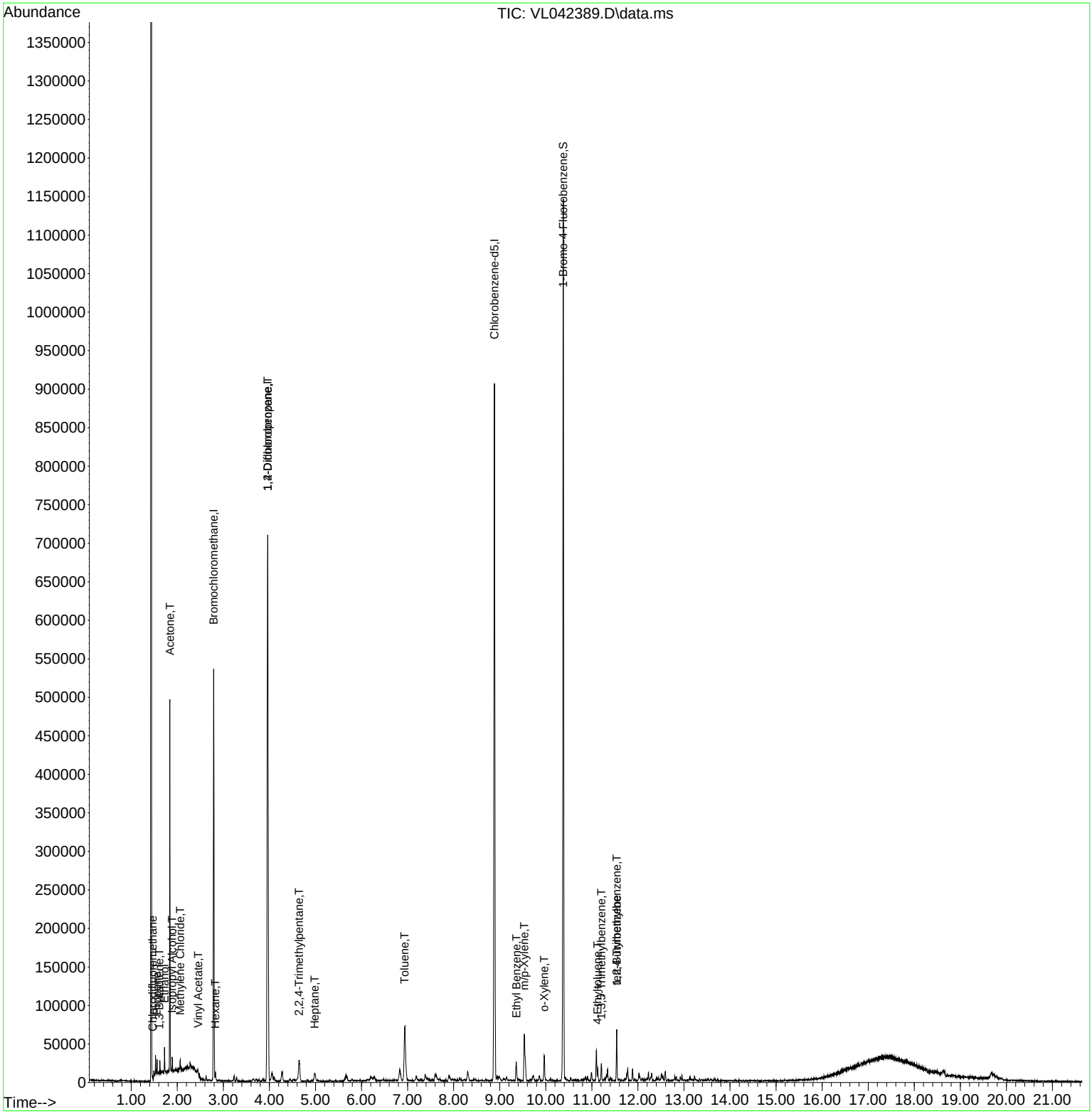
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.790	49	134501	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	412843	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	353048	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.380	95	286509	9.876	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 98.800%			
Target Compounds						Qvalue
3) Chlorodifluoromethane	1.466	51	1191	0.053	ppbv #	79
9) Propene	1.560	41	2630	0.255	ppbv	95
10) Heptane	4.981	43	2546	0.088	ppbv #	43
13) Ethanol	1.722	45	9628	5.878	ppbv #	24
15) Acetone	1.839	43	207223	9.411	ppbv	100
16) 1,3-Butadiene	1.612	39	352	0.033	ppbv #	9
19) Isopropyl Alcohol	1.887	45	7883	0.644	ppbv #	1
20) Methylene Chloride	2.065	84	1895	0.220	ppbv #	80
23) Vinyl Acetate	2.454	43	1099	0.123	ppbv #	1
26) Hexane	2.826	57	2480	0.113	ppbv #	35
39) 1,2-Dichloropropane	3.962	63	103884	6.260	ppbv #	23
44) 2,2,4-Trimethylpentane	4.641	57	12138	0.158	ppbv #	24
53) Toluene	6.936	91	47465	0.888	ppbv	99
58) Ethyl Benzene	9.361	91	12734	0.182	ppbv #	85
59) m/p-Xylene	9.532	91	37128	0.659	ppbv	98
60) o-Xylene	9.966	91	14405	0.254	ppbv	99
65) tert-Butylbenzene	11.539	119	2639	0.034	ppbv #	55
72) 4-Ethyltoluene	11.124	105	6239	0.090	ppbv #	56
73) 1,3,5-Trimethylbenzene	11.205	105	7150	0.117	ppbv	97
74) 1,2,4-Trimethylbenzene	11.539	105	24212	0.338	ppbv #	59

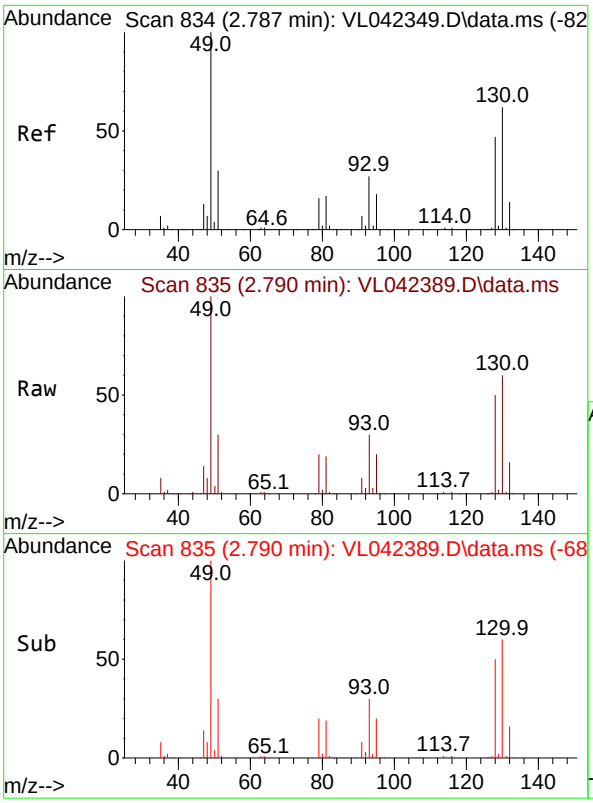
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041825\
Data File : VL042389.D
Acq On : 18 Apr 2025 13:43
Operator : SY/MD
Sample : Q1726-04DL2 40X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025DL2

Quant Time: Apr 18 22:58:55 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



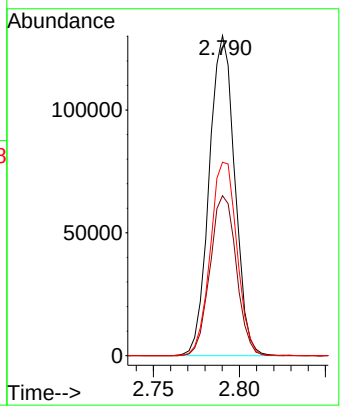


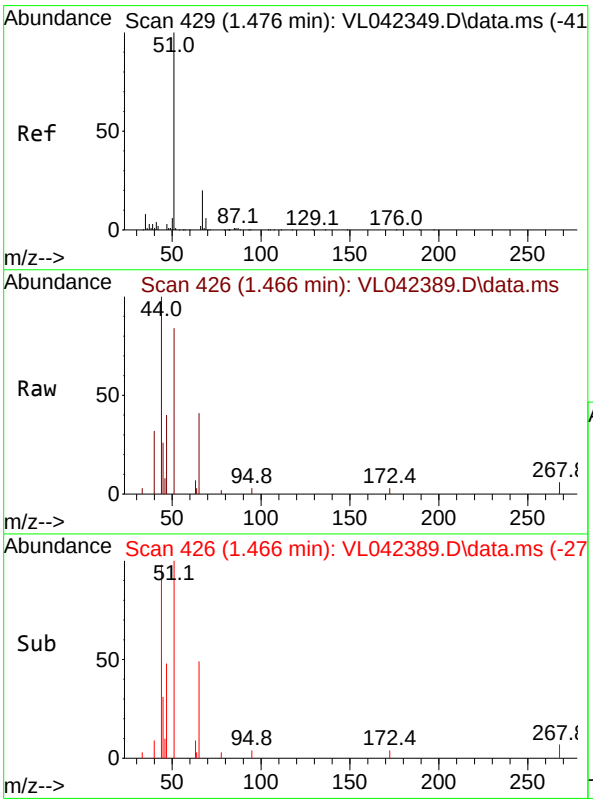
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042389.D
Acq: 18 Apr 2025 13:43

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025DL2

Tgt Ion: 49 Resp: 134501

Ion	Ratio	Lower	Upper
49	100		
128	51.5	22.8	68.4
130	63.0	29.3	88.0

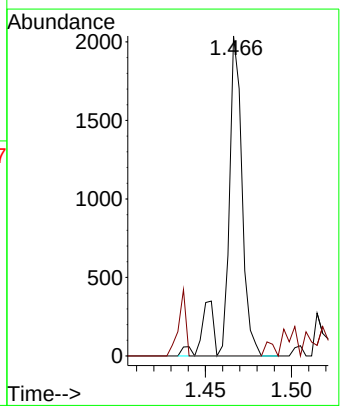


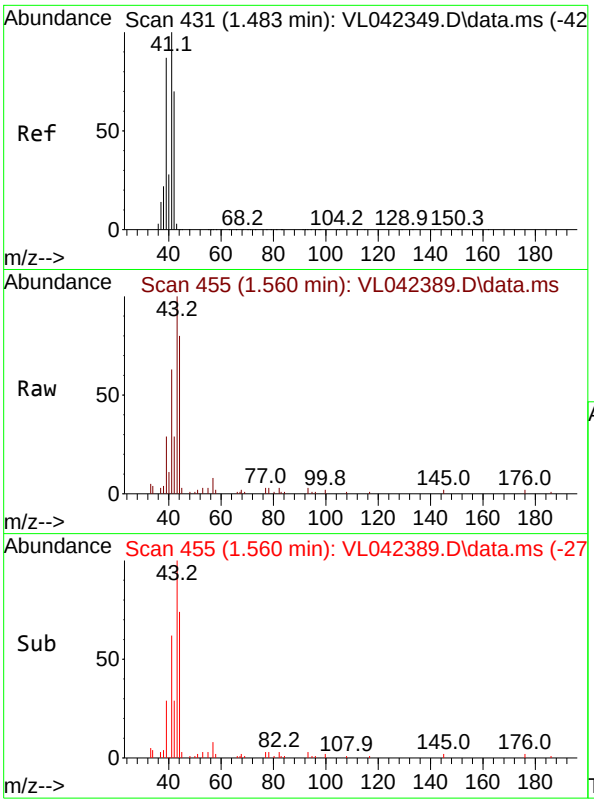


#3
Chlorodifluoromethane
Concen: 0.053 ppbv
RT: 1.466 min Scan# 426
Delta R.T. -0.010 min
Lab File: VL042389.D
Acq: 18 Apr 2025 13:43

Tgt Ion: 51 Resp: 1191

Ion	Ratio	Lower	Upper
51	100		
67	10.5	16.2	24.4#



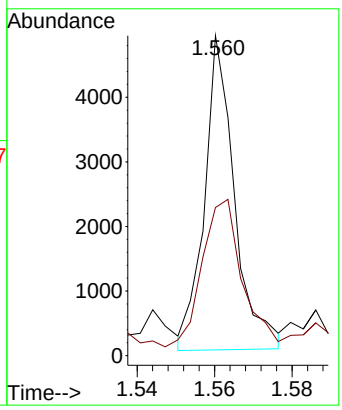


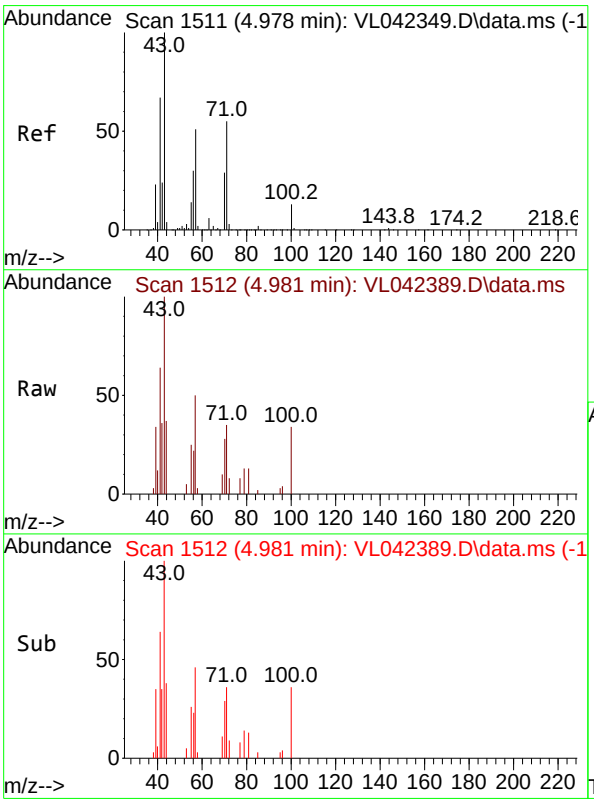
#9
Propene
Concen: 0.255 ppbv
RT: 1.560 min Scan# 4
Delta R.T. 0.078 min
Lab File: VL042389.D
Acq: 18 Apr 2025 13:43

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025DL2

Tgt Ion: 41 Resp: 2630

Ion	Ratio	Lower	Upper
41	100		
42	66.3	56.2	84.4

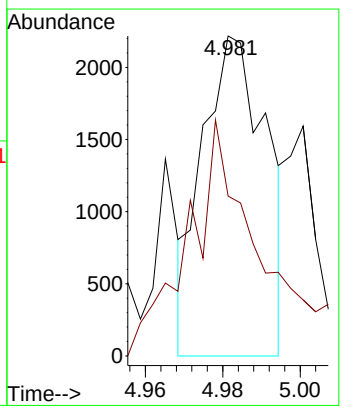


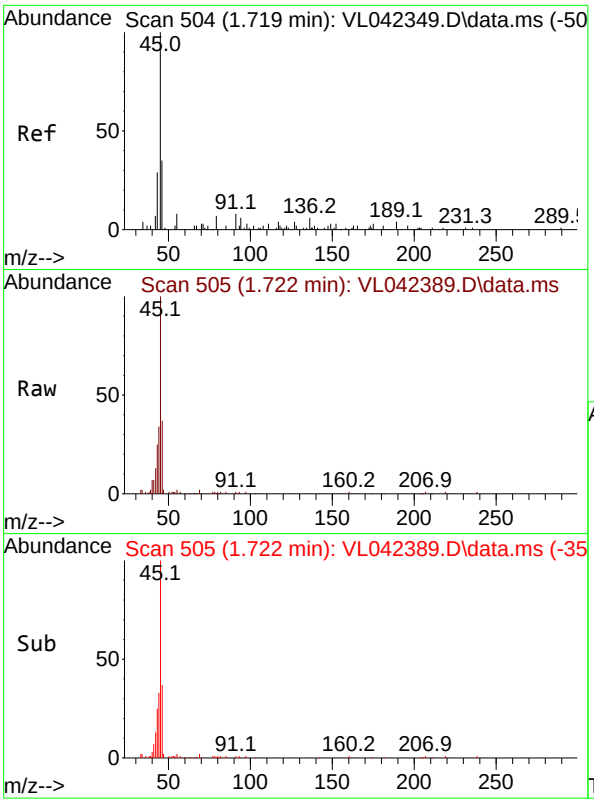


#10
Heptane
Concen: 0.088 ppbv
RT: 4.981 min Scan# 1512
Delta R.T. 0.003 min
Lab File: VL042389.D
Acq: 18 Apr 2025 13:43

Tgt Ion: 43 Resp: 2546

Ion	Ratio	Lower	Upper
43	100		
57	89.2	39.9	59.9#



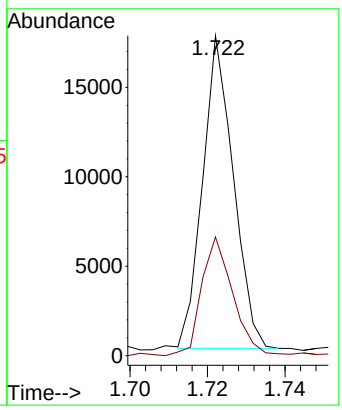


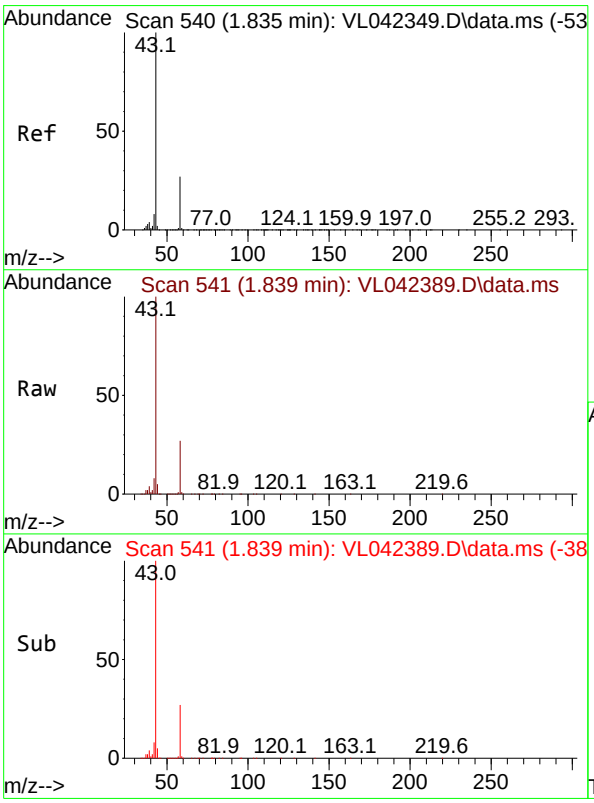
#13
Ethanol
Concen: 5.878 ppbv
RT: 1.722 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042389.D
Acq: 18 Apr 2025 13:43

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025DL2

Tgt Ion: 45 Resp: 9628

Ion	Ratio	Lower	Upper
45	100		
46	0.0	21.9	87.7#

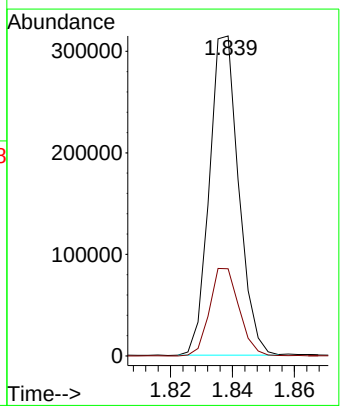


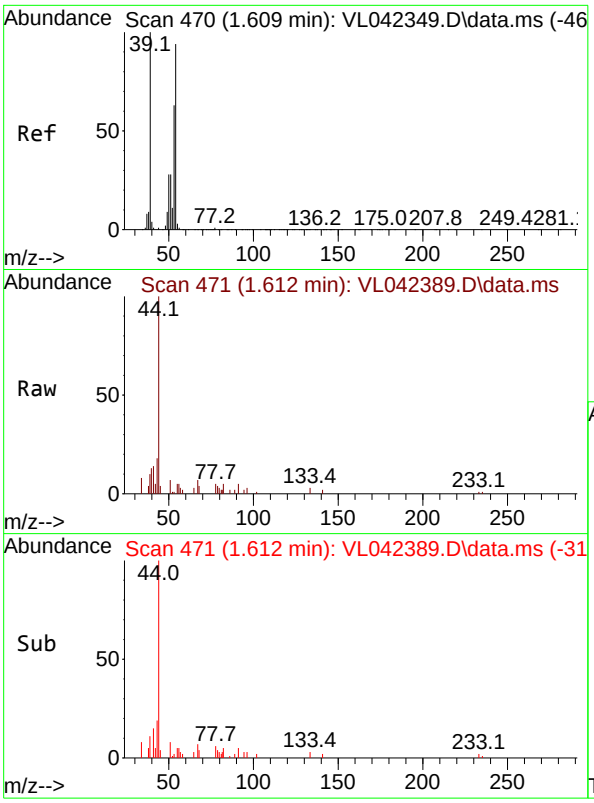


#15
Acetone
Concen: 9.411 ppbv
RT: 1.839 min Scan# 541
Delta R.T. 0.003 min
Lab File: VL042389.D
Acq: 18 Apr 2025 13:43

Tgt Ion: 43 Resp: 207223

Ion	Ratio	Lower	Upper
43	100		
58	27.9	22.4	33.6



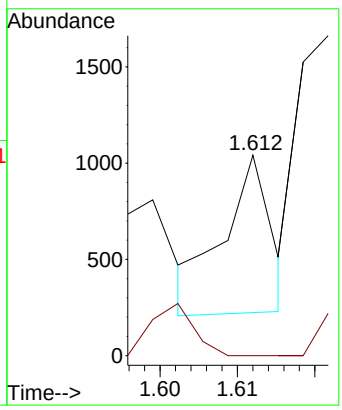


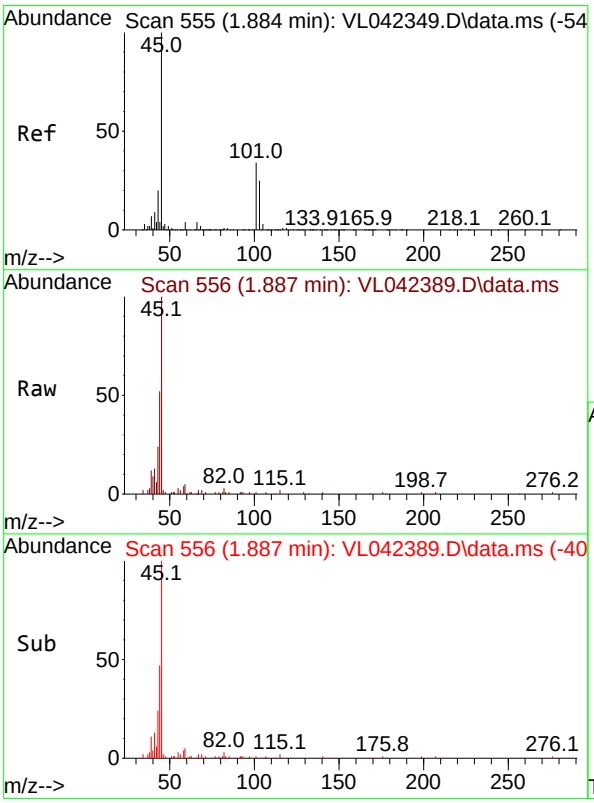
#16
1,3-Butadiene
Concen: 0.033 ppbv
RT: 1.612 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL042389.D
Acq: 18 Apr 2025 13:43

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025DL2

Tgt Ion: 39 Resp: 352

Ion	Ratio	Lower	Upper
39	100		
54	0.0	64.9	97.3#

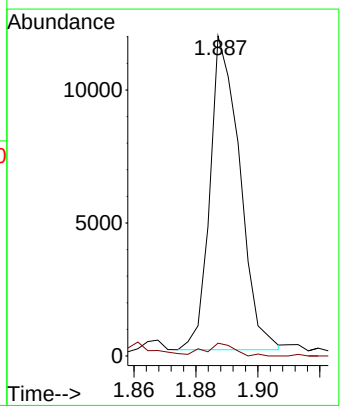


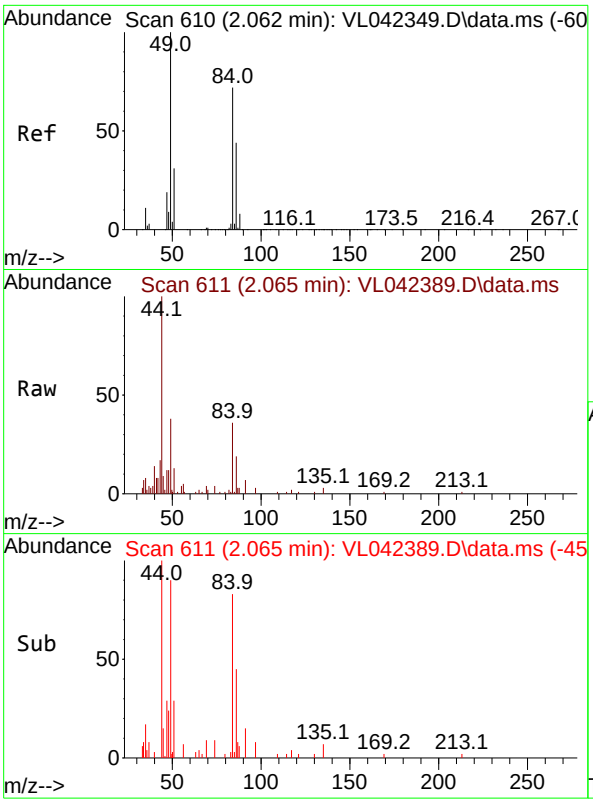


#19
Isopropyl Alcohol
Concen: 0.644 ppbv
RT: 1.887 min Scan# 556
Delta R.T. 0.003 min
Lab File: VL042389.D
Acq: 18 Apr 2025 13:43

Tgt Ion: 45 Resp: 7883

Ion	Ratio	Lower	Upper
45	100		
58	733.5	34.5	51.7#



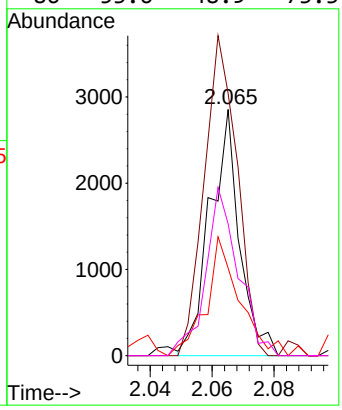


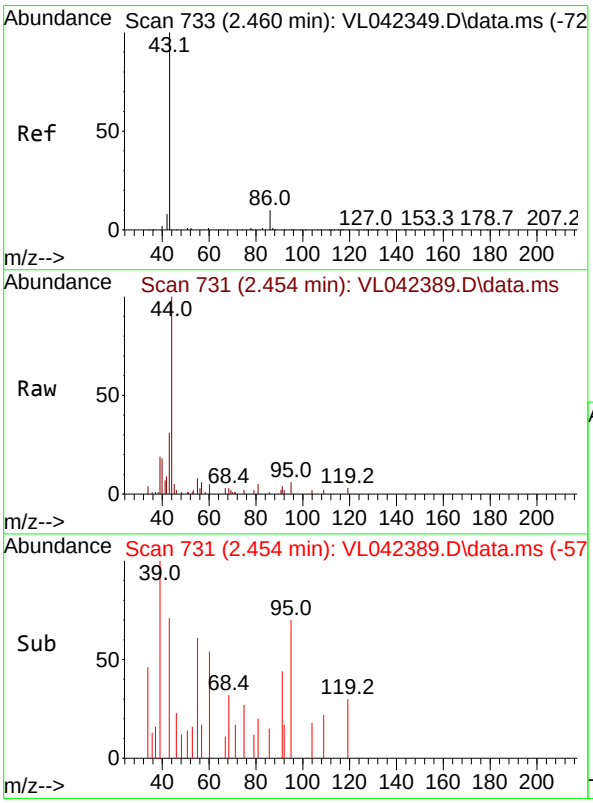
#20
Methylene Chloride
Concen: 0.220 ppbv
RT: 2.065 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL042389.D
Acq: 18 Apr 2025 13:43

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025DL2

Tgt Ion: 84 Resp: 1895

Ion	Ratio	Lower	Upper
84	100		
49	110.8	111.6	167.4#
51	29.6	35.1	52.7#
86	53.6	48.9	73.3

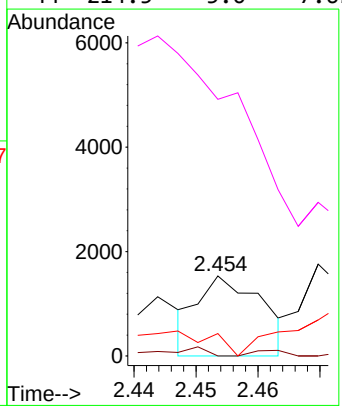


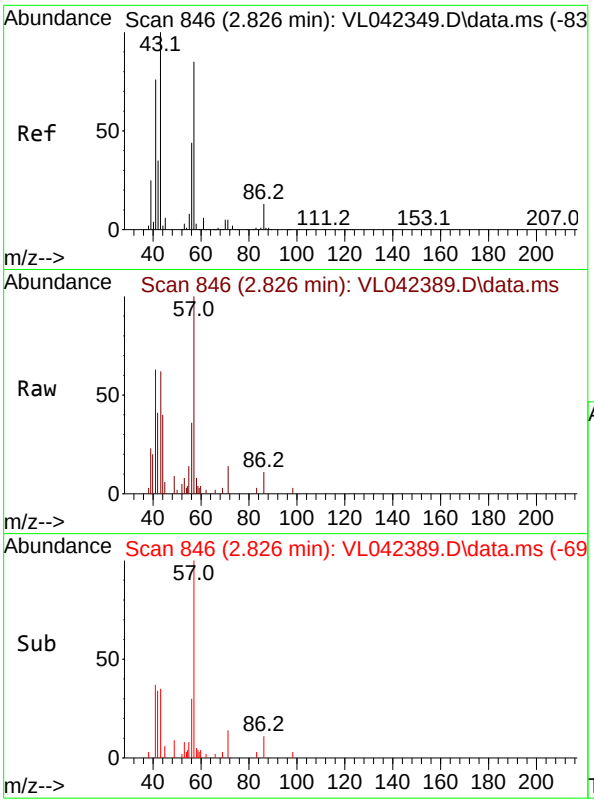


#23
Vinyl Acetate
Concen: 0.123 ppbv
RT: 2.454 min Scan# 731
Delta R.T. -0.007 min
Lab File: VL042389.D
Acq: 18 Apr 2025 13:43

Tgt Ion: 43 Resp: 1099

Ion	Ratio	Lower	Upper
43	100		
86	0.0	6.5	9.7#
42	0.0	7.8	11.8#
44	214.5	5.0	7.6#



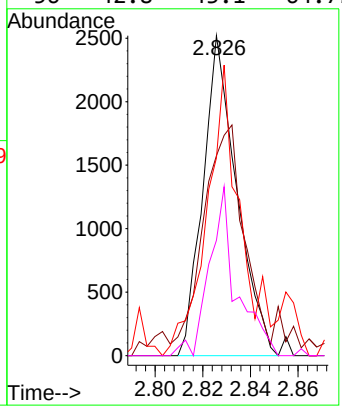


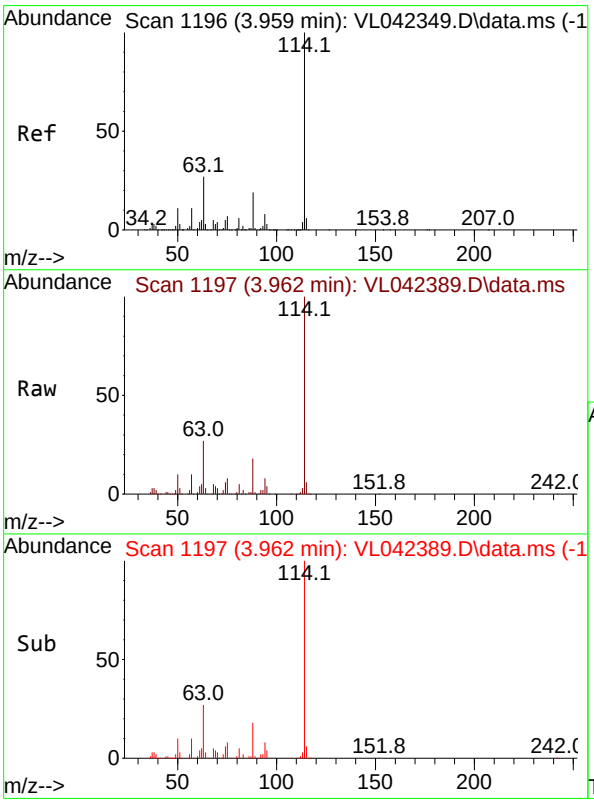
#26
Hexane
Concen: 0.113 ppbv
RT: 2.826 min Scan# 84
Delta R.T. -0.000 min
Lab File: VL042389.D
Acq: 18 Apr 2025 13:43

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025DL2

Tgt Ion: 57 Resp: 2480

Ion	Ratio	Lower	Upper
57	100		
41	107.0	77.9	116.9
43	88.2	208.4	312.6#
56	42.8	43.1	64.7#

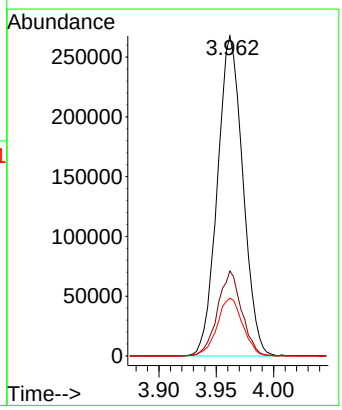


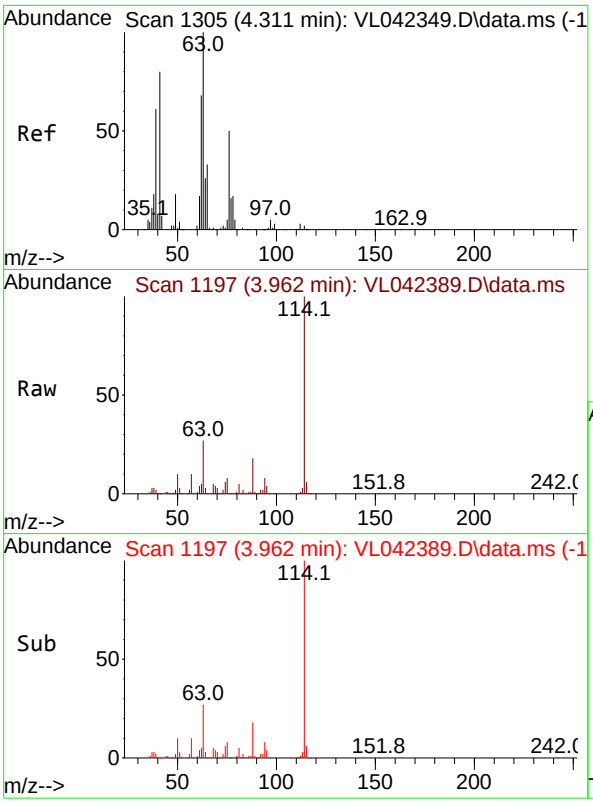


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.962 min Scan# 1197
Delta R.T. 0.003 min
Lab File: VL042389.D
Acq: 18 Apr 2025 13:43

Tgt Ion:114 Resp: 412843

Ion	Ratio	Lower	Upper
114	100		
63	25.2	21.8	32.6
88	18.1	15.5	23.3



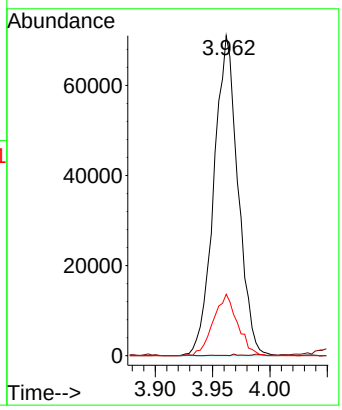


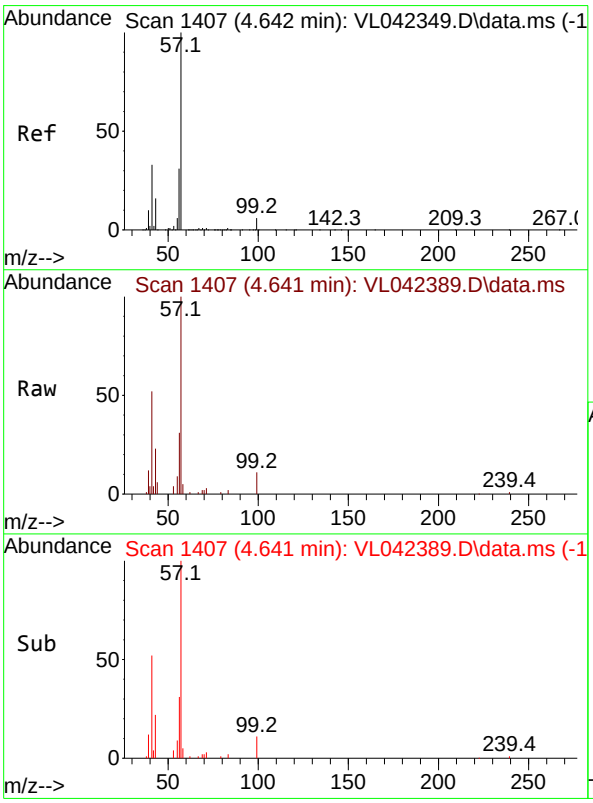
#39
1,2-Dichloropropane
Concen: 6.260 ppbv
RT: 3.962 min Scan# 1
Delta R.T. -0.350 min
Lab File: VL042389.D
Acq: 18 Apr 2025 13:43

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025DL2

Tgt Ion: 63 Resp: 103884

Ion	Ratio	Lower	Upper
63	100		
41	0.1	64.2	96.2#
62	19.2	54.3	81.5#

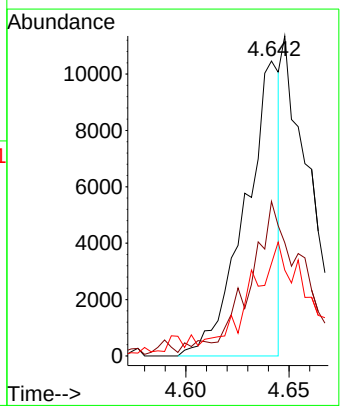


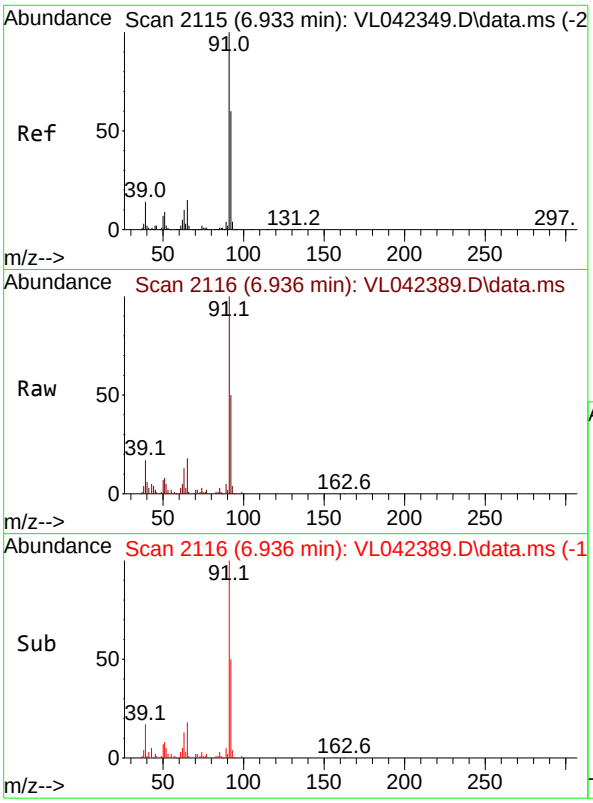


#44
2,2,4-Trimethylpentane
Concen: 0.158 ppbv
RT: 4.641 min Scan# 1407
Delta R.T. -0.000 min
Lab File: VL042389.D
Acq: 18 Apr 2025 13:43

Tgt Ion: 57 Resp: 12138

Ion	Ratio	Lower	Upper
57	100		
41	87.4	27.2	40.8#
56	0.0	25.7	38.5#



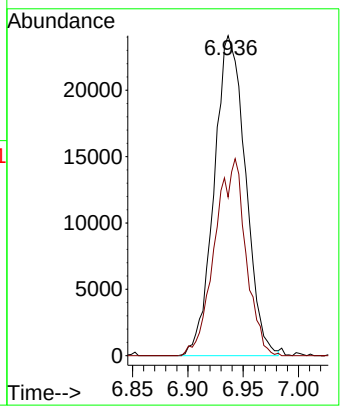


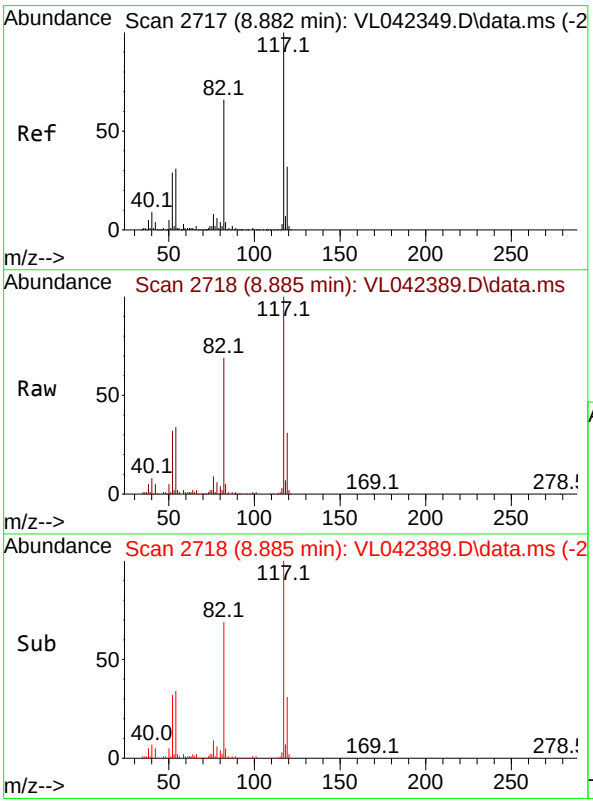
#53
Toluene
Concen: 0.888 ppbv
RT: 6.936 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL042389.D
Acq: 18 Apr 2025 13:43

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025DL2

Tgt Ion: 91 Resp: 47465

Ion	Ratio	Lower	Upper
91	100		
92	61.0	48.2	72.4

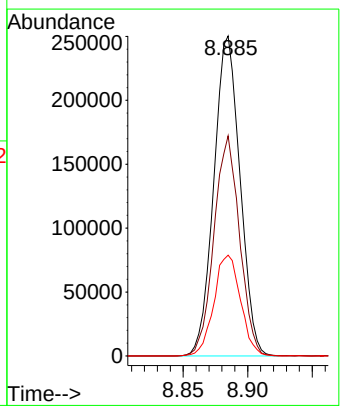


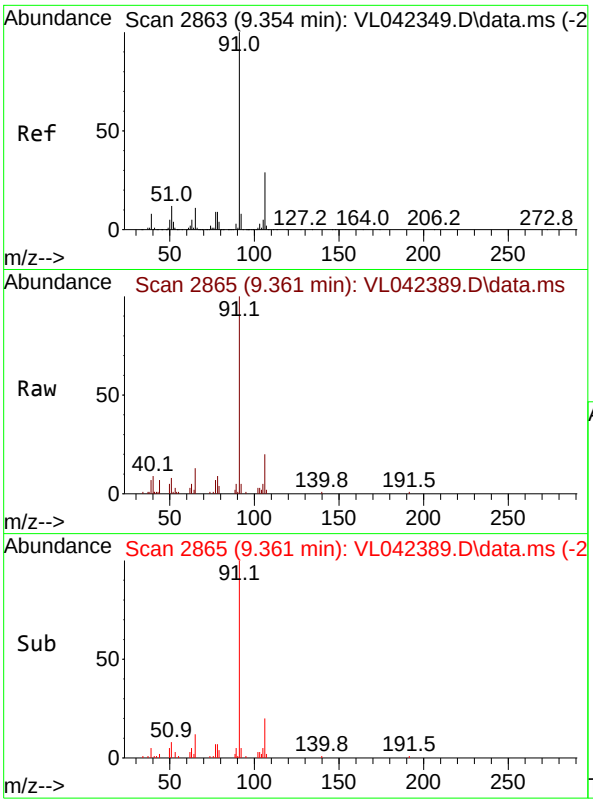


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.885 min Scan# 2718
Delta R.T. 0.003 min
Lab File: VL042389.D
Acq: 18 Apr 2025 13:43

Tgt Ion:117 Resp: 353048

Ion	Ratio	Lower	Upper
117	100		
82	67.1	57.8	86.6
119	32.1	25.2	37.8



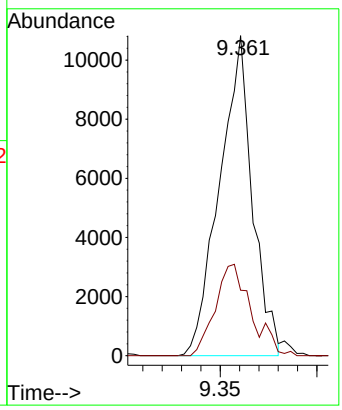


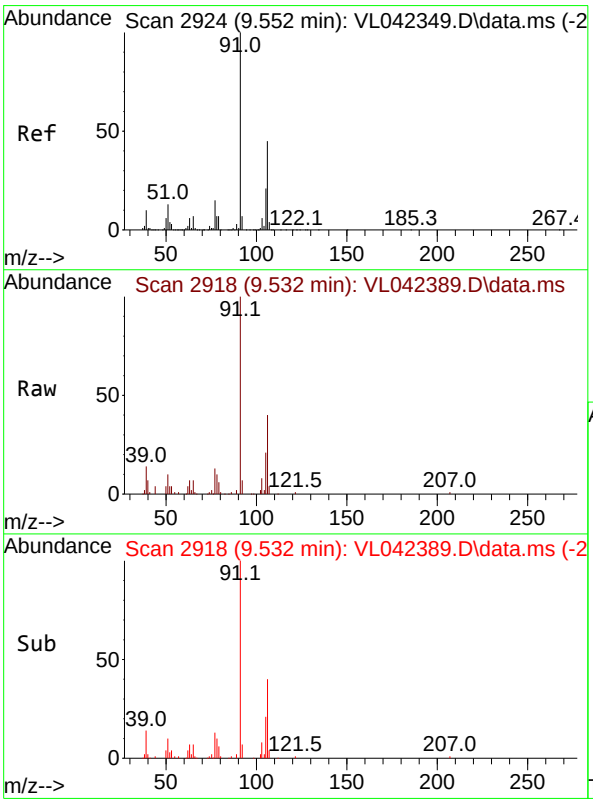
#58
Ethyl Benzene
Concen: 0.182 ppbv
RT: 9.361 min Scan# 2
Delta R.T. 0.006 min
Lab File: VL042389.D
Acq: 18 Apr 2025 13:43

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025DL2

Tgt Ion: 91 Resp: 12734

Ion	Ratio	Lower	Upper
91	100		
106	20.5	23.0	34.4#

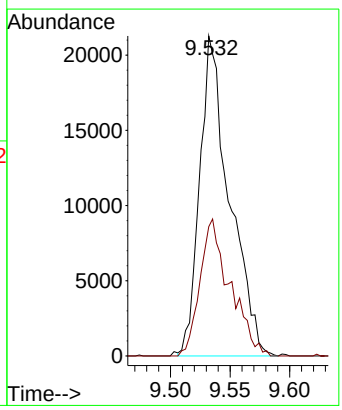


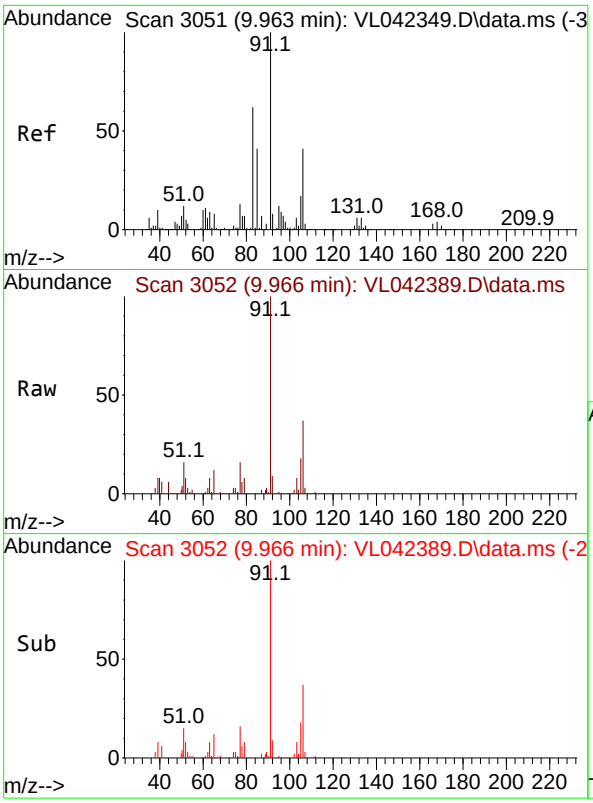


#59
m/p-Xylene
Concen: 0.659 ppbv
RT: 9.532 min Scan# 2918
Delta R.T. -0.019 min
Lab File: VL042389.D
Acq: 18 Apr 2025 13:43

Tgt Ion: 91 Resp: 37128

Ion	Ratio	Lower	Upper
91	100		
106	43.2	35.4	53.2



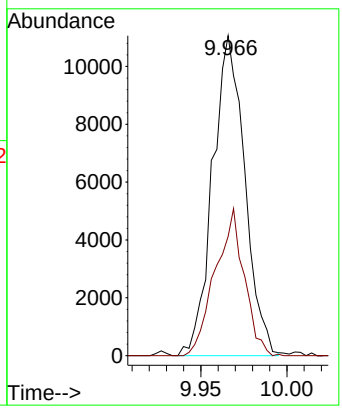


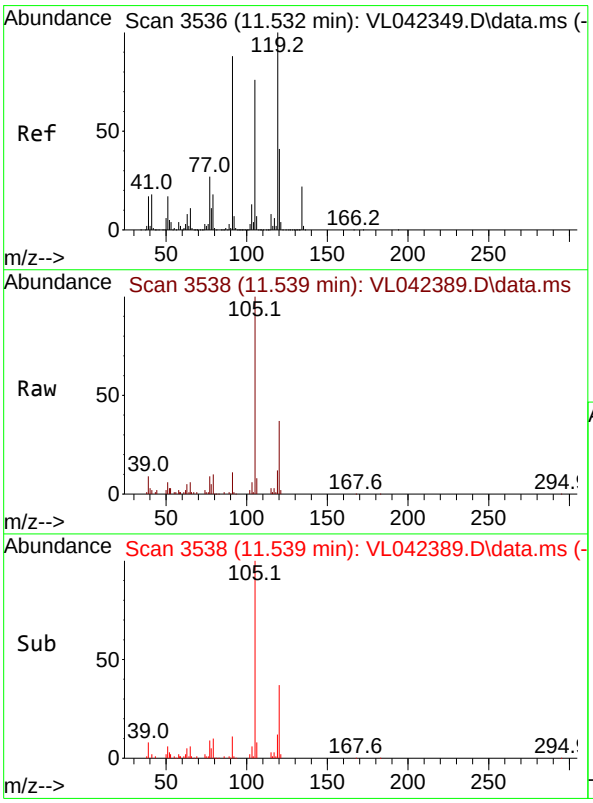
#60
o-Xylene
Concen: 0.254 ppbv
RT: 9.966 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042389.D
Acq: 18 Apr 2025 13:43

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025DL2

Tgt Ion: 91 Resp: 14405

Ion	Ratio	Lower	Upper
91	100		
106	41.4	21.1	63.4

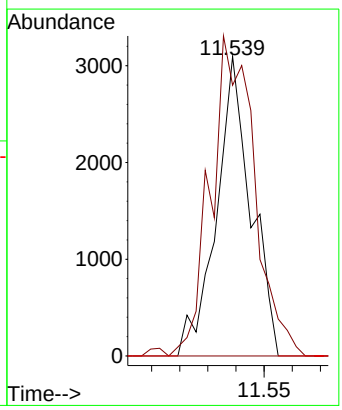


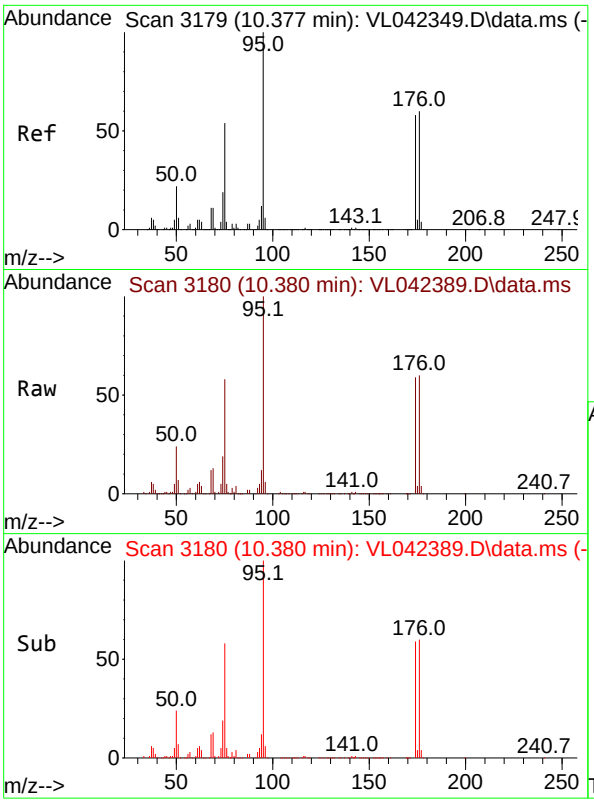


#65
tert-Butylbenzene
Concen: 0.034 ppbv
RT: 11.539 min Scan# 3538
Delta R.T. 0.006 min
Lab File: VL042389.D
Acq: 18 Apr 2025 13:43

Tgt Ion:119 Resp: 2639

Ion	Ratio	Lower	Upper
119	100		
91	135.2	74.6	111.8#
134	0.0	18.8	28.2#



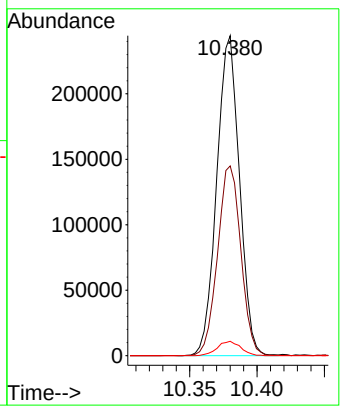


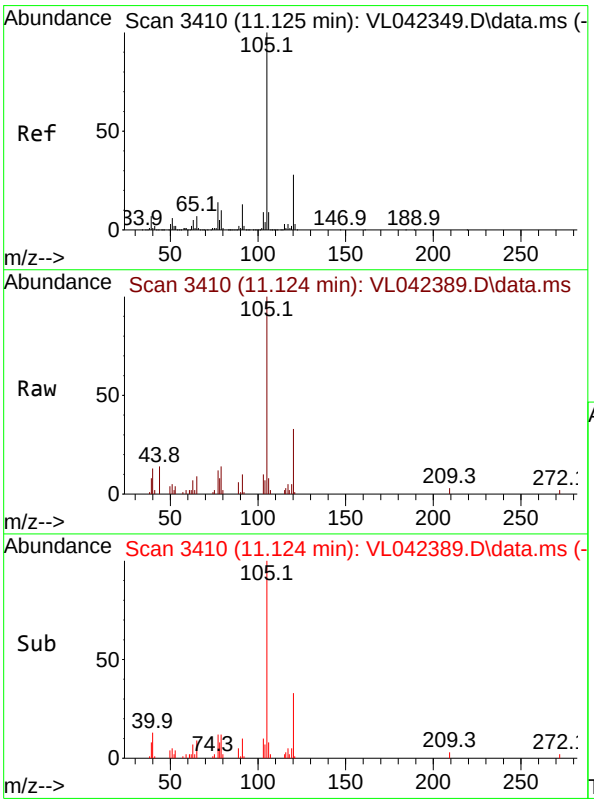
#68
1-Bromo-4-Fluorobenzene
Concen: 9.876 ppbv
RT: 10.380 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042389.D
Acq: 18 Apr 2025 13:43

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025DL2

Tgt Ion: 95 Resp: 286509

Ion	Ratio	Lower	Upper
95	100		
174	60.9	48.5	72.7
175	4.6	3.7	5.5

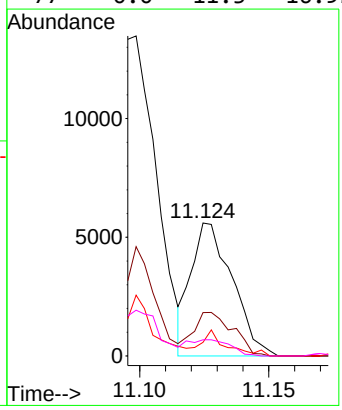


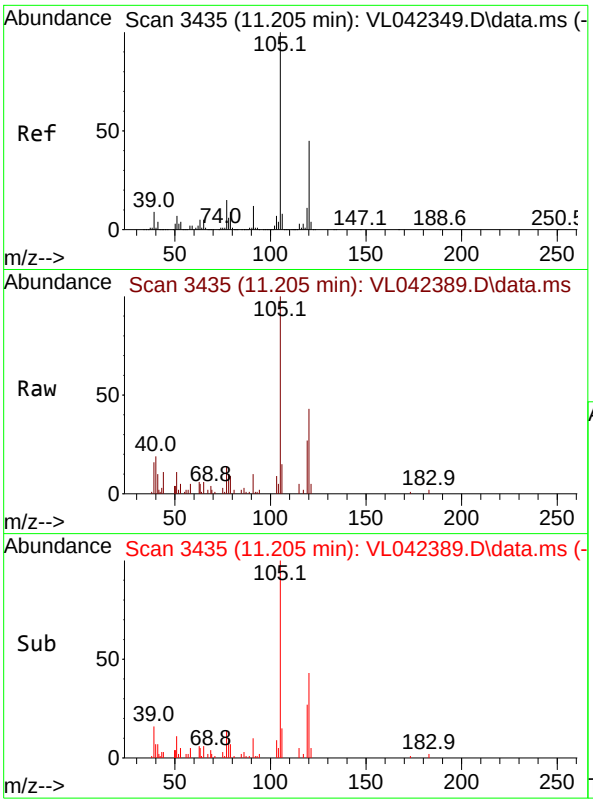


#72
4-Ethyltoluene
Concen: 0.090 ppbv
RT: 11.124 min Scan# 3410
Delta R.T. -0.000 min
Lab File: VL042389.D
Acq: 18 Apr 2025 13:43

Tgt Ion:105 Resp: 6239

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#



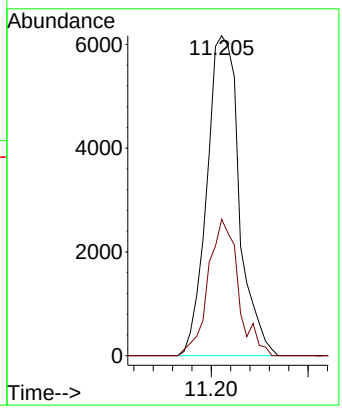


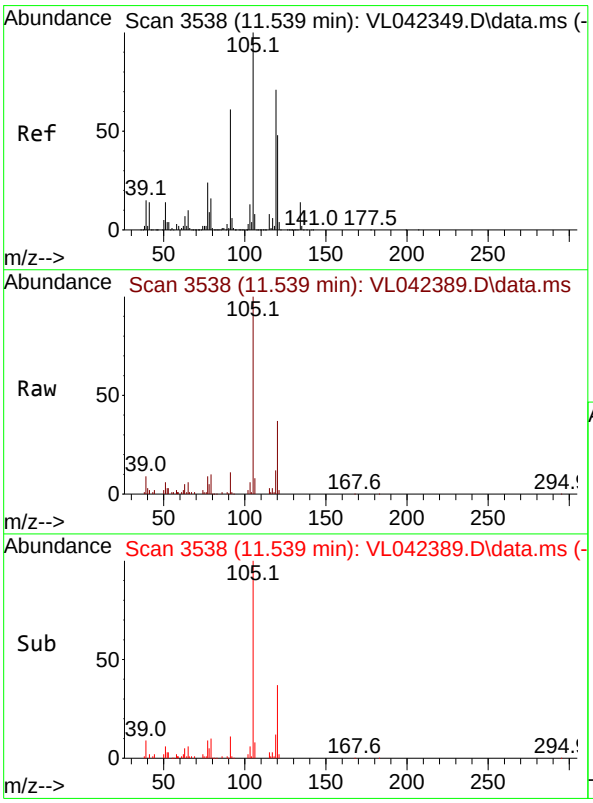
#73
1,3,5-Trimethylbenzene
Concen: 0.117 ppbv
RT: 11.205 min Scan# 34
Delta R.T. -0.000 min
Lab File: VL042389.D
Acq: 18 Apr 2025 13:43

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025DL2

Tgt Ion:105 Resp: 7150

Ion	Ratio	Lower	Upper
105	100		
120	42.6	35.6	53.4

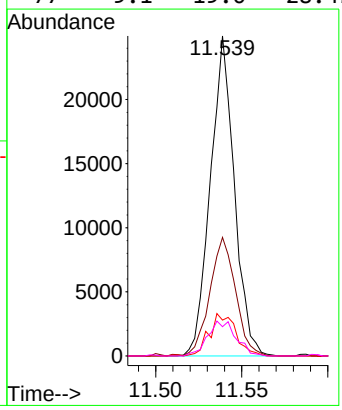




#74
1,2,4-Trimethylbenzene
Concen: 0.338 ppbv
RT: 11.539 min Scan# 3538
Delta R.T. -0.000 min
Lab File: VL042389.D
Acq: 18 Apr 2025 13:43

Tgt Ion:105 Resp: 24212

Ion	Ratio	Lower	Upper
105	100		
120	37.1	38.1	57.1#
91	11.2	48.8	73.2#
77	9.1	19.0	28.4#



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041825\
Data File : VL042390.D
Acq On : 18 Apr 2025 14:14
Operator : SY/MD
Sample : Q1726-03DL2 100X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-2-03312025DL2

Quant Time: Apr 18 22:59:21 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

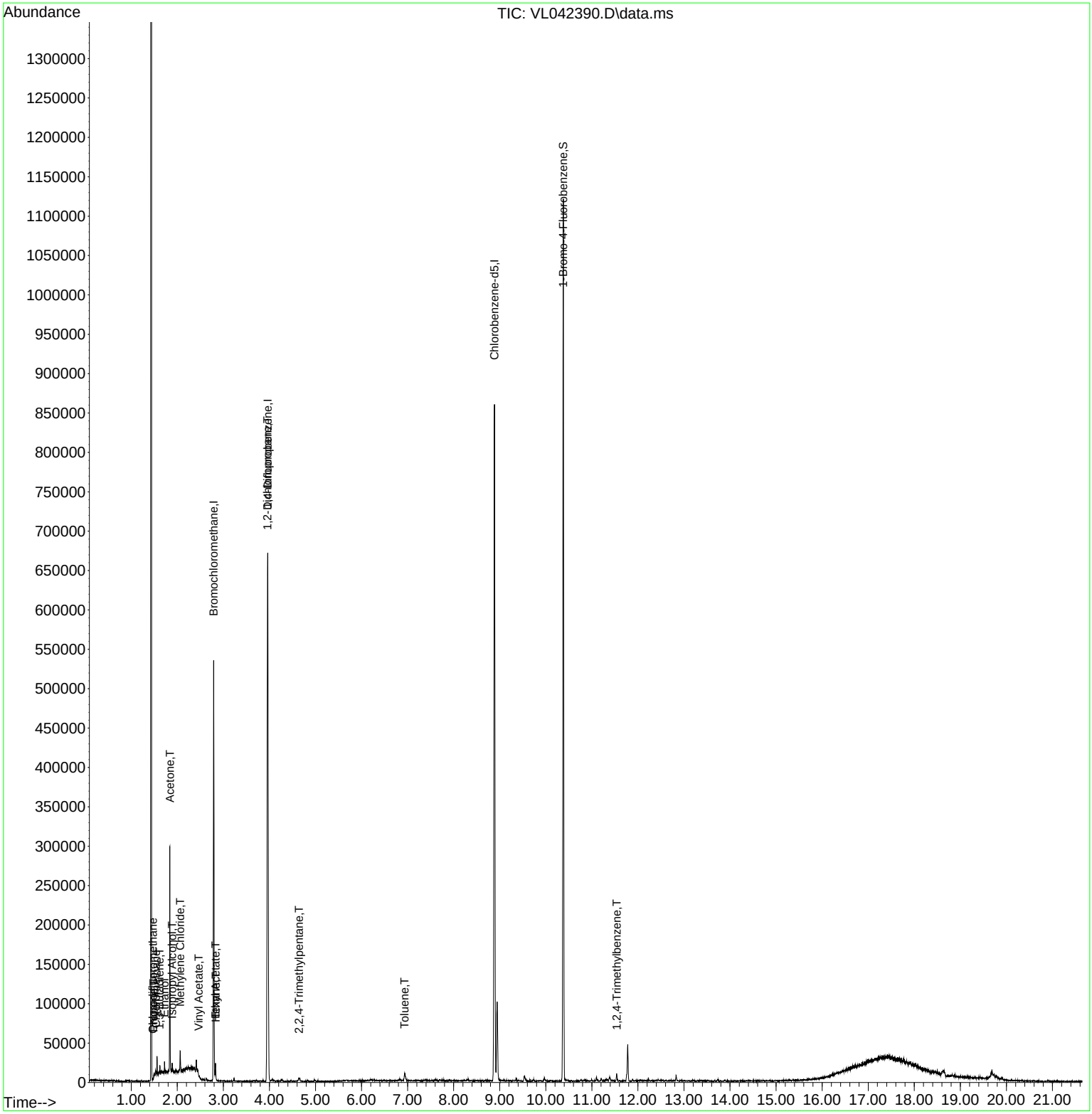
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.790	49	127324	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	395389	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	342875	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	281379	9.987	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 99.900%			
Target Compounds						Qvalue
3) Chlorodifluoromethane	1.470	51	787	0.037	ppbv #	74
4) Chloromethane	1.534	50	328	0.037	ppbv	97
9) Propene	1.486	41	703	0.072	ppbv #	49
13) Ethanol	1.722	45	3867	2.494	ppbv #	24
15) Acetone	1.839	43	126935	6.090	ppbv	97
16) 1,3-Butadiene	1.615	39	316	0.032	ppbv #	9
19) Isopropyl Alcohol	1.887	45	4184	0.361	ppbv #	1
20) Methylene Chloride	2.065	84	4377	0.536	ppbv #	83
23) Vinyl Acetate	2.463	43	455	0.054	ppbv #	75
25) Ethyl Acetate	2.829	43	3091	0.060	ppbv #	74
26) Hexane	2.832	57	4666	0.224	ppbv #	31
39) 1,2-Dichloropropane	3.959	63	102018	6.419	ppbv #	22
44) 2,2,4-Trimethylpentane	4.645	57	2268	0.031	ppbv #	11
53) Toluene	6.936	91	4094	0.080	ppbv #	43
74) 1,2,4-Trimethylbenzene	11.542	105	3706	0.053	ppbv #	56

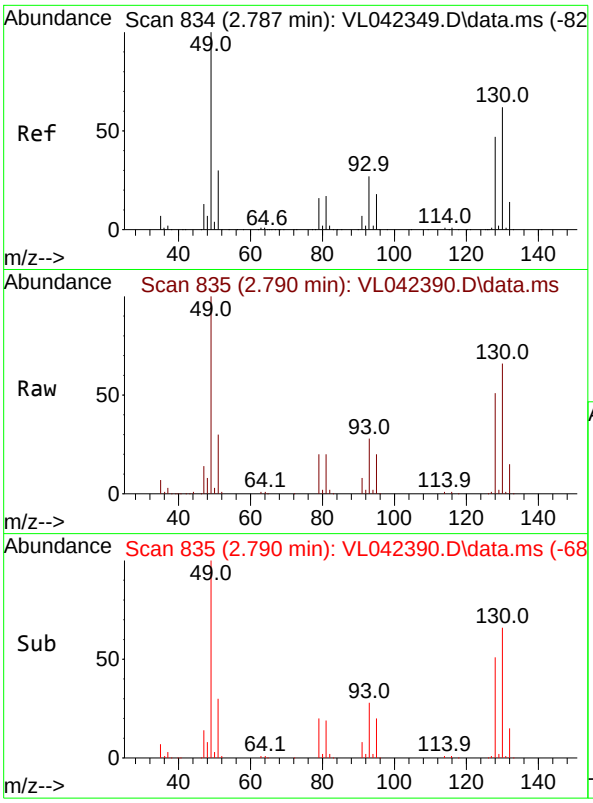
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041825\
Data File : VL042390.D
Acq On : 18 Apr 2025 14:14
Operator : SY/MD
Sample : Q1726-03DL2 100X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-2-03312025DL2

Quant Time: Apr 18 22:59:21 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



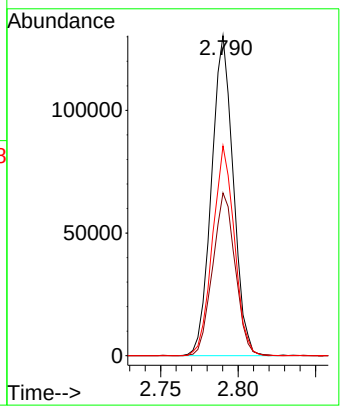


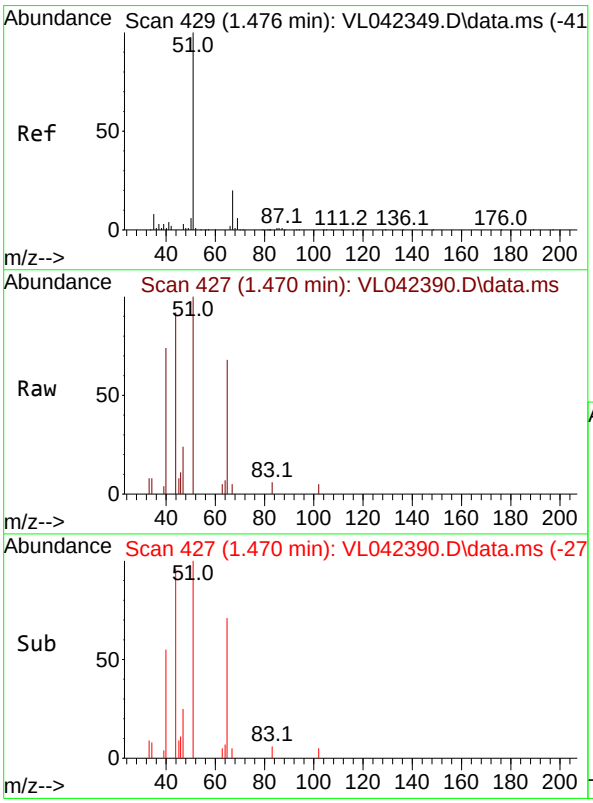
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042390.D
Acq: 18 Apr 2025 14:14

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-2-03312025DL2

Tgt Ion: 49 Resp: 127324

Ion	Ratio	Lower	Upper
49	100		
128	52.6	22.8	68.4
130	65.9	29.3	88.0

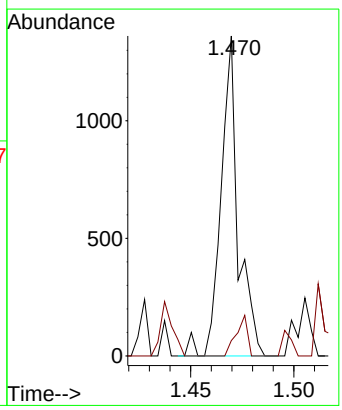


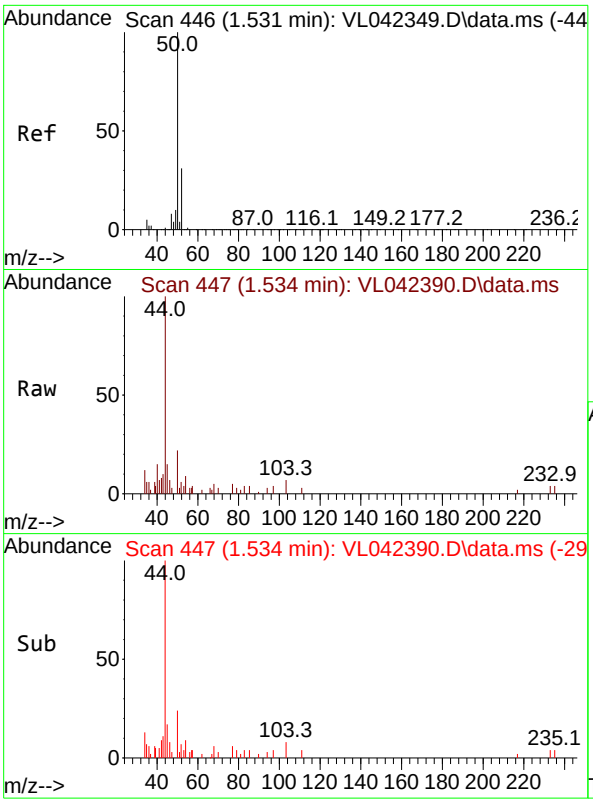


#3
Chlorodifluoromethane
Concen: 0.037 ppbv
RT: 1.470 min Scan# 427
Delta R.T. -0.006 min
Lab File: VL042390.D
Acq: 18 Apr 2025 14:14

Tgt Ion: 51 Resp: 787

Ion	Ratio	Lower	Upper
51	100		
67	8.3	16.2	24.4#



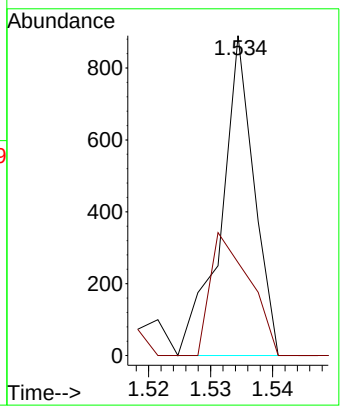


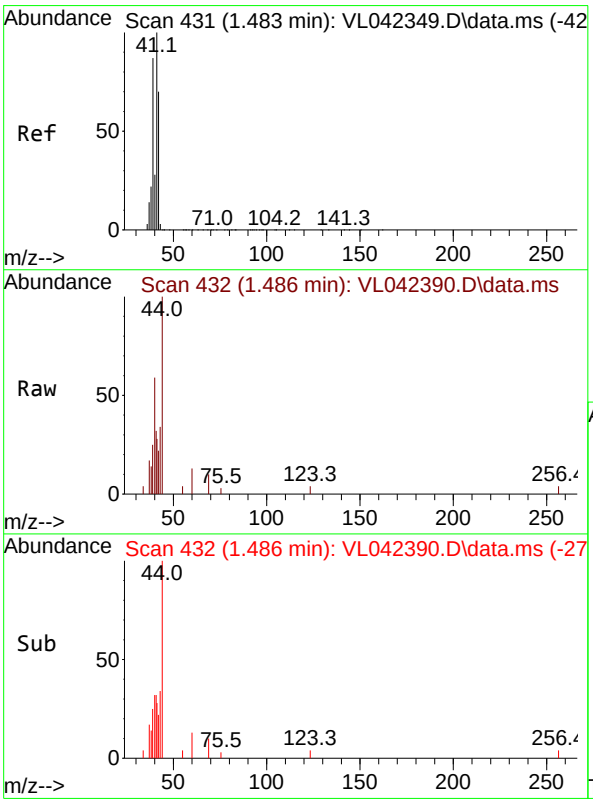
#4
Chloromethane
Concen: 0.037 ppbv
RT: 1.534 min Scan# 44
Delta R.T. 0.003 min
Lab File: VL042390.D
Acq: 18 Apr 2025 14:14

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-2-03312025DL2

Tgt Ion: 50 Resp: 328

Ion	Ratio	Lower	Upper
50	100		
52	29.1	24.7	37.1

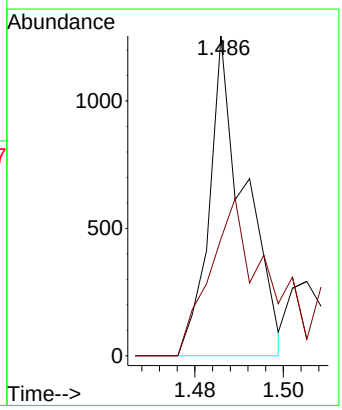


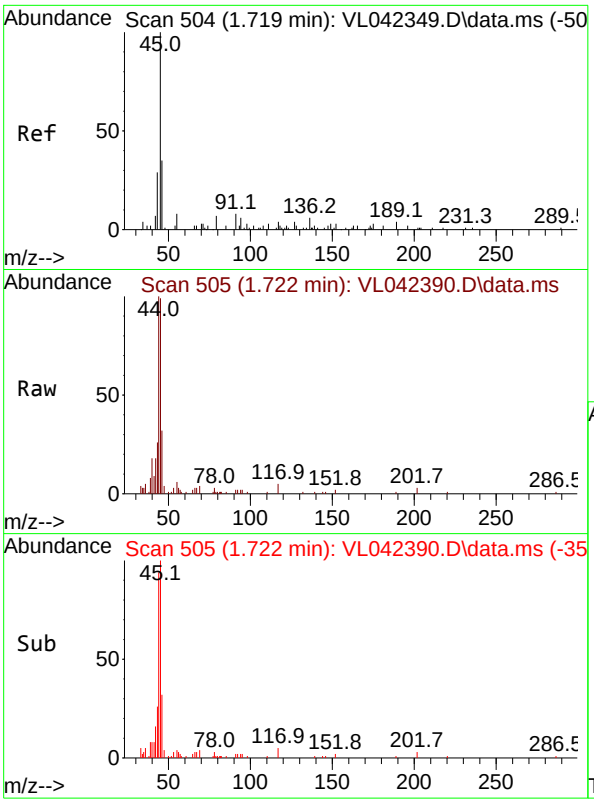


#9
Propene
Concen: 0.072 ppbv
RT: 1.486 min Scan# 432
Delta R.T. 0.003 min
Lab File: VL042390.D
Acq: 18 Apr 2025 14:14

Tgt Ion: 41 Resp: 703

Ion	Ratio	Lower	Upper
41	100		
42	112.1	56.2	84.4#



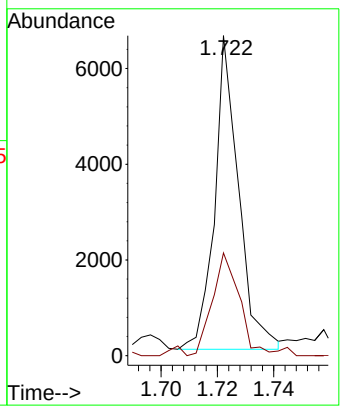


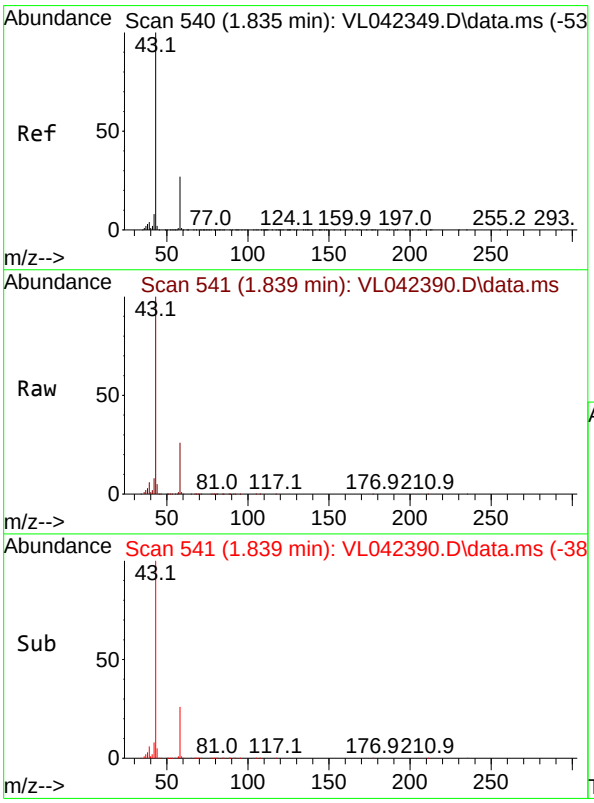
#13
Ethanol
Concen: 2.494 ppbv
RT: 1.722 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042390.D
Acq: 18 Apr 2025 14:14

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-2-03312025DL2

Tgt Ion: 45 Resp: 3867

Ion	Ratio	Lower	Upper
45	100		
46	0.0	21.9	87.7#

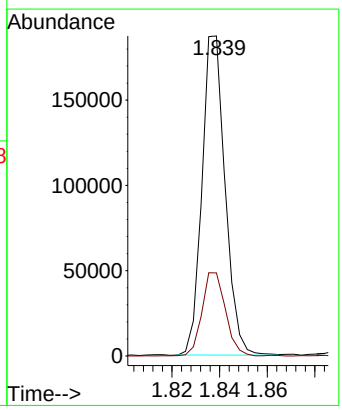


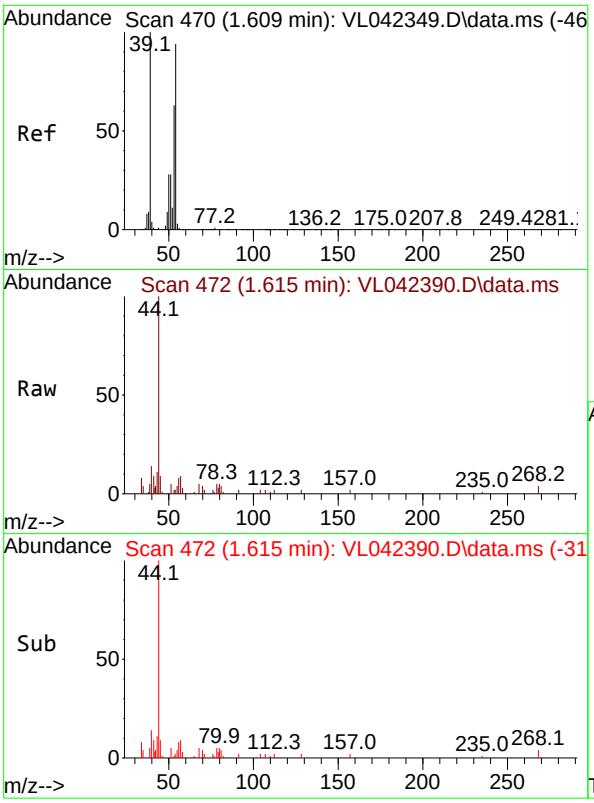


#15
Acetone
Concen: 6.090 ppbv
RT: 1.839 min Scan# 541
Delta R.T. 0.003 min
Lab File: VL042390.D
Acq: 18 Apr 2025 14:14

Tgt Ion: 43 Resp: 126935

Ion	Ratio	Lower	Upper
43	100		
58	26.7	22.4	33.6



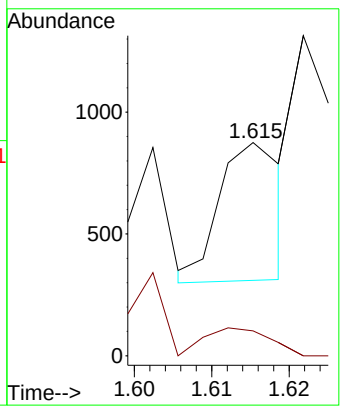


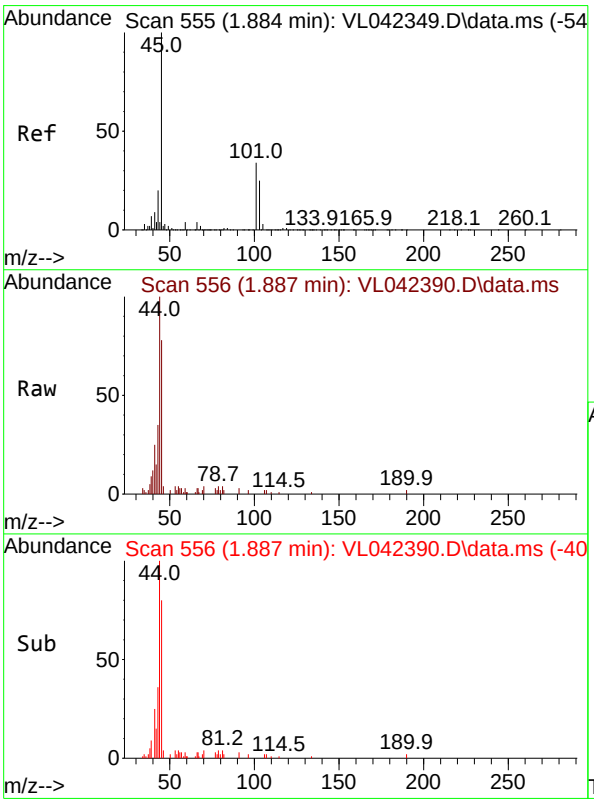
#16
1,3-Butadiene
Concen: 0.032 ppbv
RT: 1.615 min Scan# 4
Delta R.T. 0.007 min
Lab File: VL042390.D
Acq: 18 Apr 2025 14:14

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-2-03312025DL2

Tgt Ion: 39 Resp: 316

Ion	Ratio	Lower	Upper
39	100		
54	0.0	64.9	97.3#

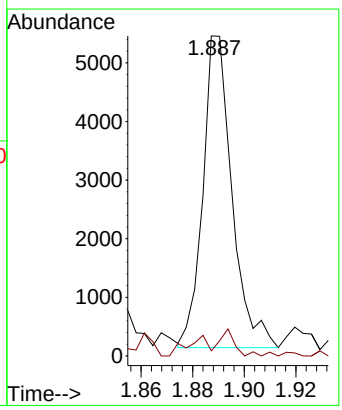


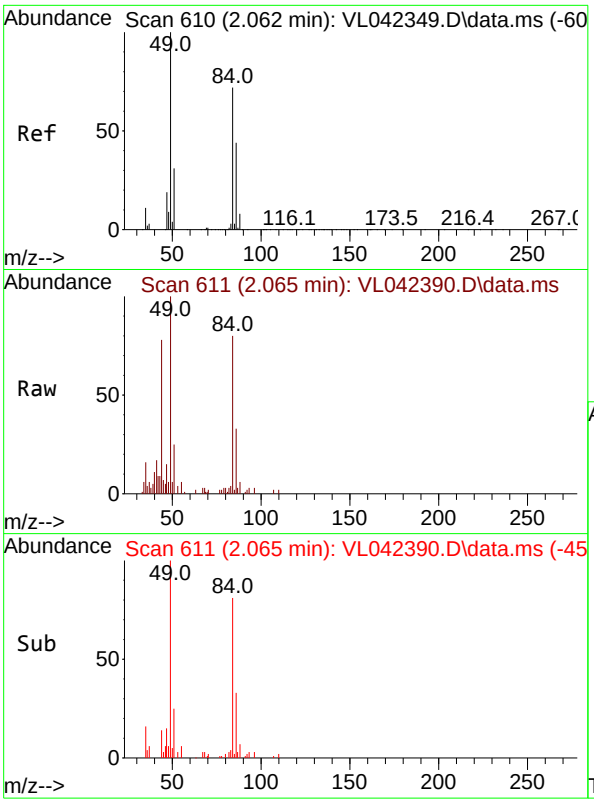


#19
Isopropyl Alcohol
Concen: 0.361 ppbv
RT: 1.887 min Scan# 556
Delta R.T. 0.003 min
Lab File: VL042390.D
Acq: 18 Apr 2025 14:14

Tgt Ion: 45 Resp: 4184

Ion	Ratio	Lower	Upper
45	100		
58	808.7	34.5	51.7#



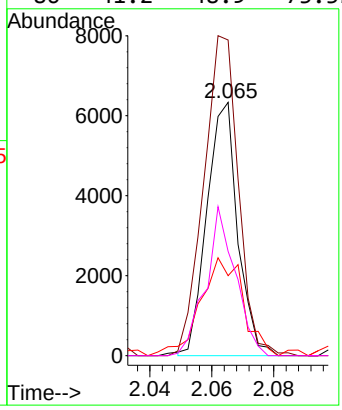


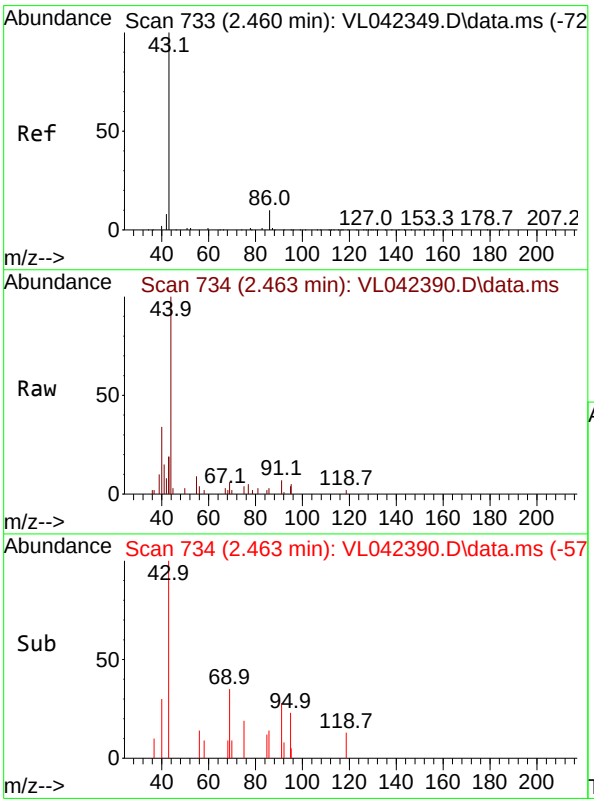
#20
Methylene Chloride
Concen: 0.536 ppbv
RT: 2.065 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL042390.D
Acq: 18 Apr 2025 14:14

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-2-03312025DL2

Tgt Ion: 84 Resp: 4377

Ion	Ratio	Lower	Upper
84	100		
49	123.6	111.6	167.4
51	31.6	35.1	52.7#
86	41.2	48.9	73.3#

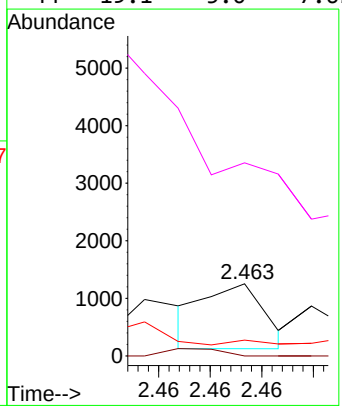


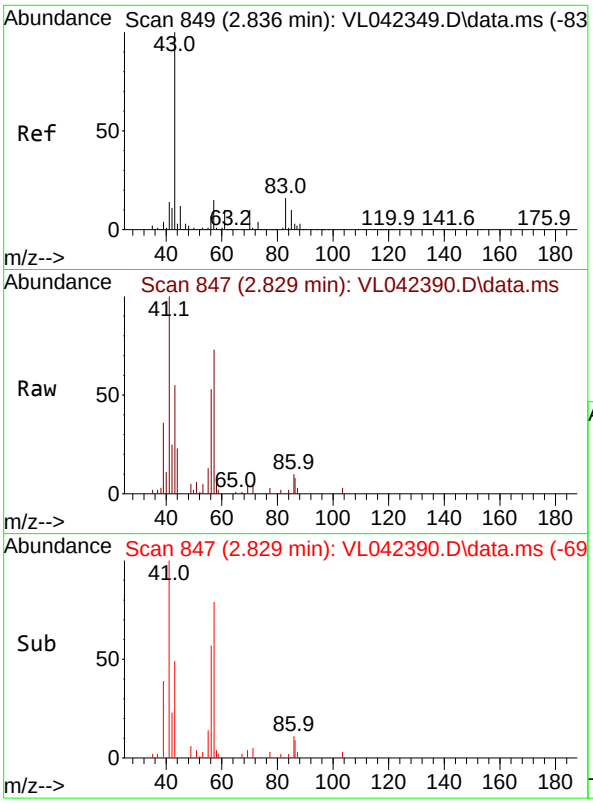


#23
Vinyl Acetate
Concen: 0.054 ppbv
RT: 2.463 min Scan# 734
Delta R.T. 0.003 min
Lab File: VL042390.D
Acq: 18 Apr 2025 14:14

Tgt Ion: 43 Resp: 455

Ion	Ratio	Lower	Upper
43	100		
86	0.0	6.5	9.7#
42	2.6	7.8	11.8#
44	19.1	5.0	7.6#



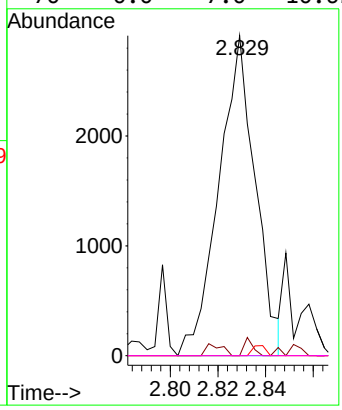


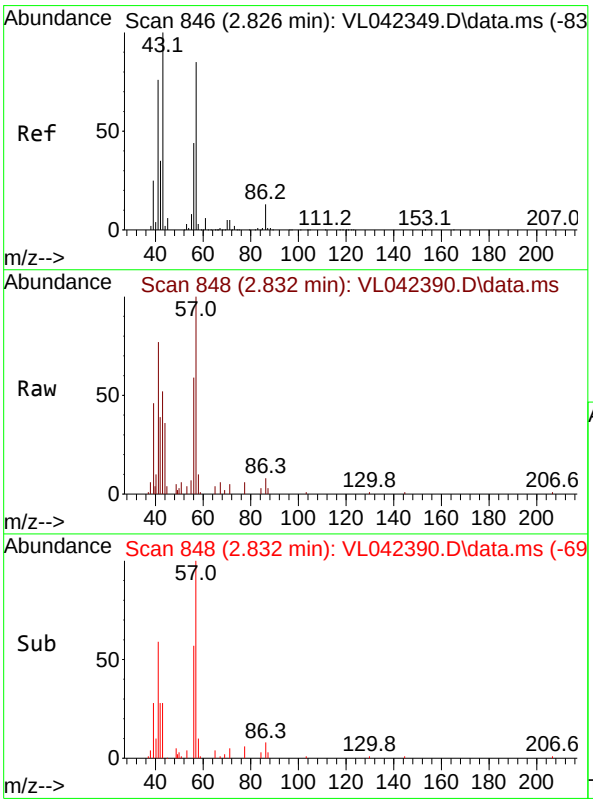
#25
Ethyl Acetate
Concen: 0.060 ppbv
RT: 2.829 min Scan# 84
Delta R.T. -0.006 min
Lab File: VL042390.D
Acq: 18 Apr 2025 14:14

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-2-03312025DL2

Tgt Ion: 43 Resp: 3091

Ion	Ratio	Lower	Upper
43	100		
45	0.0	8.3	12.5#
61	0.0	7.3	10.9#
70	0.0	7.0	10.6#

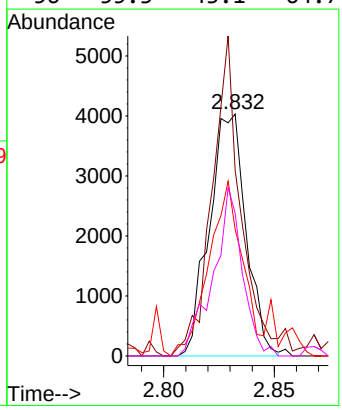


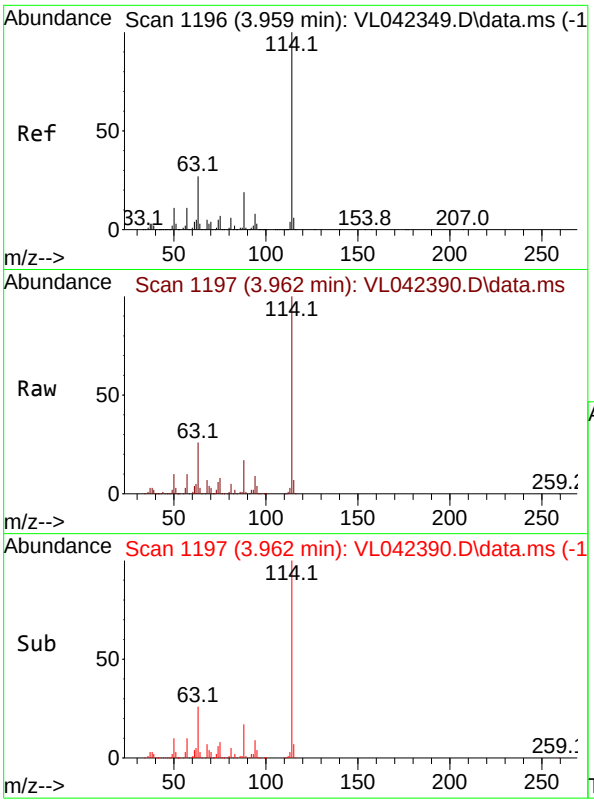


#26
Hexane
Concen: 0.224 ppbv
RT: 2.832 min Scan# 848
Delta R.T. 0.007 min
Lab File: VL042390.D
Acq: 18 Apr 2025 14:14

Tgt Ion: 57 Resp: 4666

Ion	Ratio	Lower	Upper
57	100		
41	114.9	77.9	116.9
43	78.0	208.4	312.6#
56	55.3	43.1	64.7



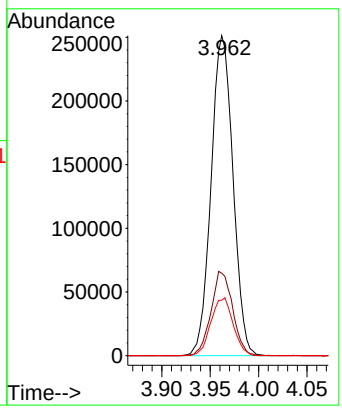


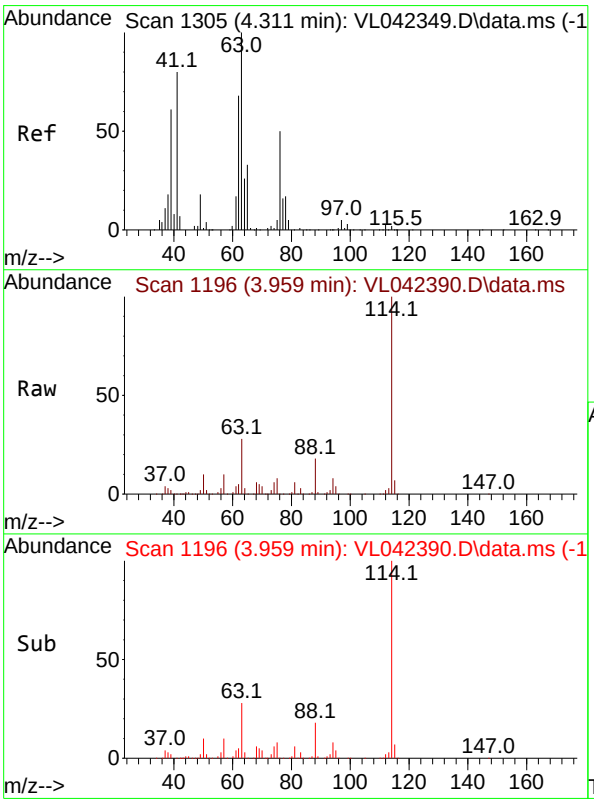
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.962 min Scan# 11
Delta R.T. 0.003 min
Lab File: VL042390.D
Acq: 18 Apr 2025 14:14

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-2-03312025DL2

Tgt Ion:114 Resp: 395389

Ion	Ratio	Lower	Upper
114	100		
63	26.0	21.8	32.6
88	18.4	15.5	23.3

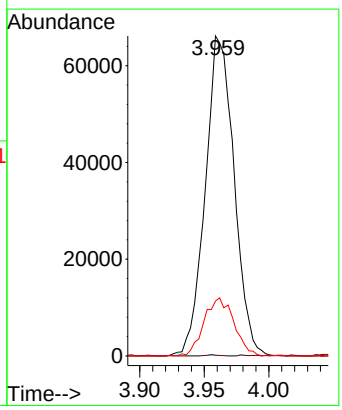


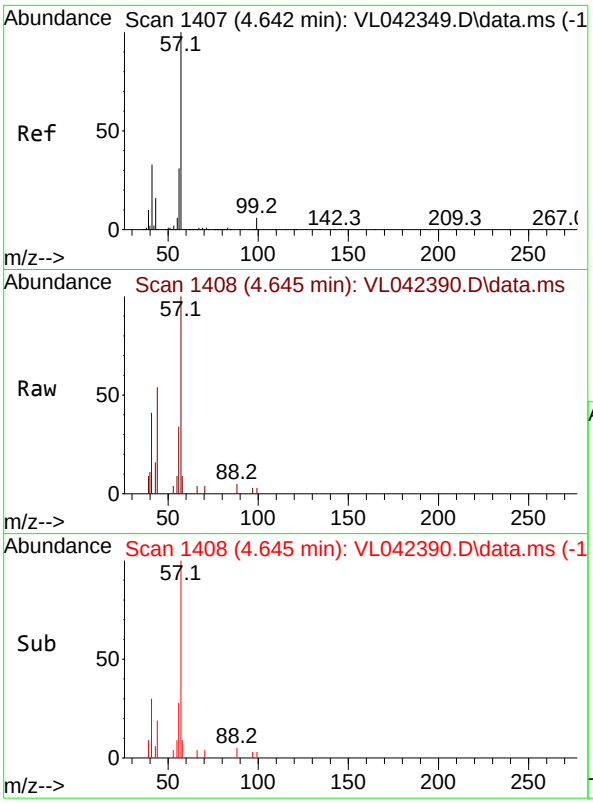


#39
1,2-Dichloropropane
Concen: 6.419 ppbv
RT: 3.959 min Scan# 1196
Delta R.T. -0.353 min
Lab File: VL042390.D
Acq: 18 Apr 2025 14:14

Tgt Ion: 63 Resp: 102018

Ion	Ratio	Lower	Upper
63	100		
41	0.3	64.2	96.2#
62	17.0	54.3	81.5#



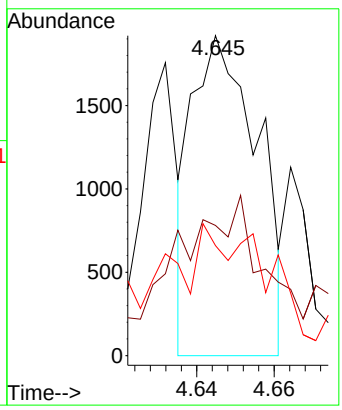


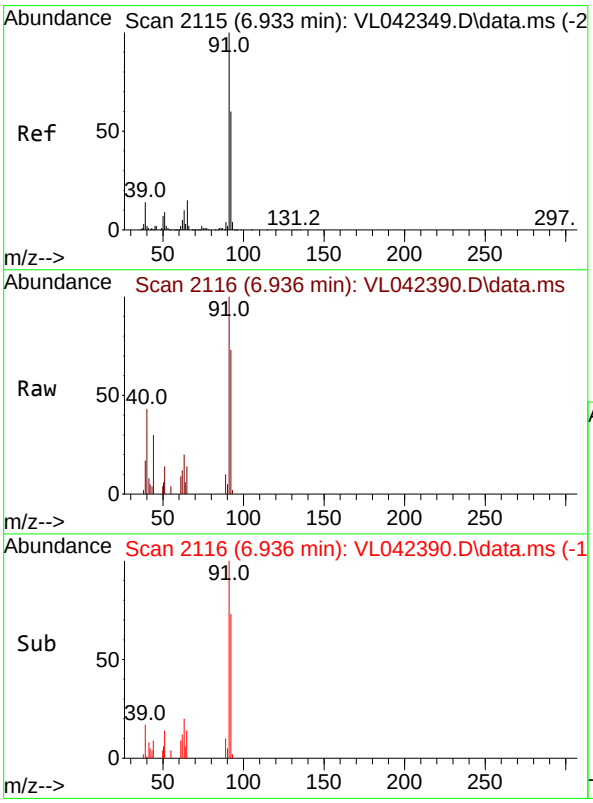
#44
2,2,4-Trimethylpentane
Concen: 0.031 ppbv
RT: 4.645 min Scan# 14
Delta R.T. 0.003 min
Lab File: VL042390.D
Acq: 18 Apr 2025 14:14

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-2-03312025DL2

Tgt Ion: 57 Resp: 2268

Ion	Ratio	Lower	Upper
57	100		
41	83.2	27.2	40.8#
56	83.0	25.7	38.5#

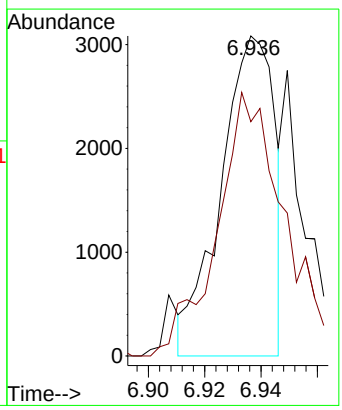


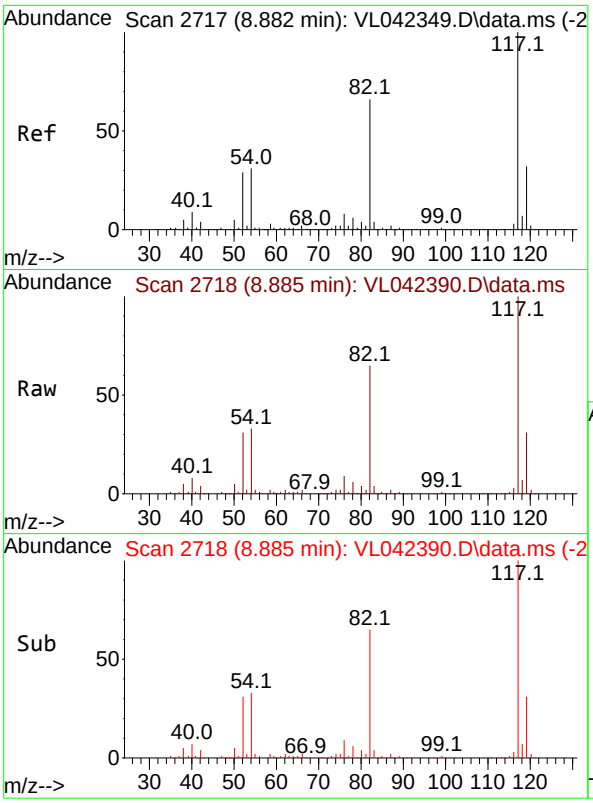


#53
Toluene
Concen: 0.080 ppbv
RT: 6.936 min Scan# 2116
Delta R.T. 0.003 min
Lab File: VL042390.D
Acq: 18 Apr 2025 14:14

Tgt Ion: 91 Resp: 4094

Ion	Ratio	Lower	Upper
91	100		
92	103.5	48.2	72.4#



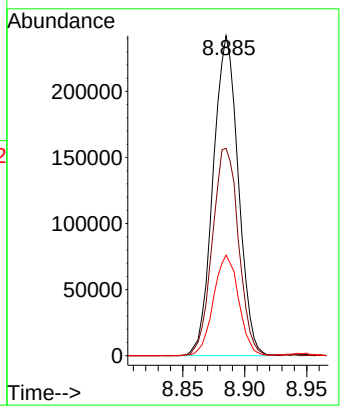


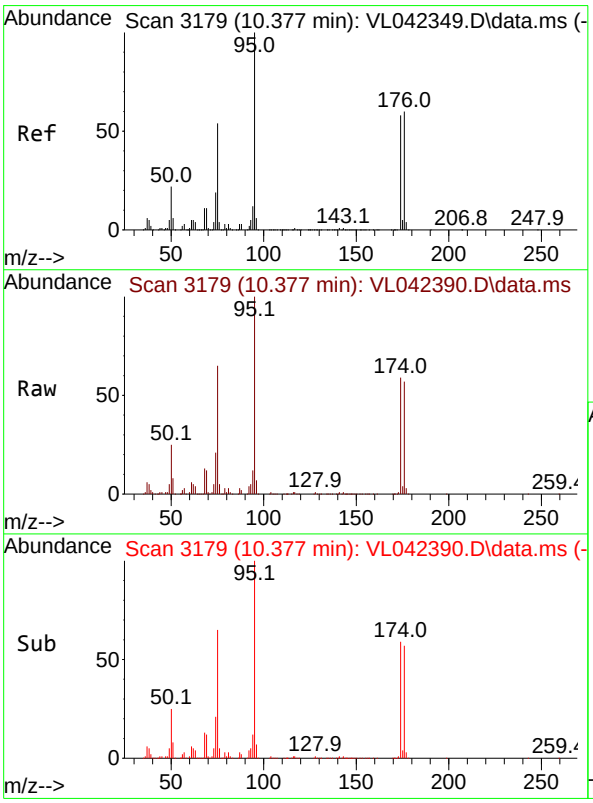
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.885 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042390.D
Acq: 18 Apr 2025 14:14

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-2-03312025DL2

Tgt Ion:117 Resp: 342875

Ion	Ratio	Lower	Upper
117	100		
82	67.7	57.8	86.6
119	31.6	25.2	37.8

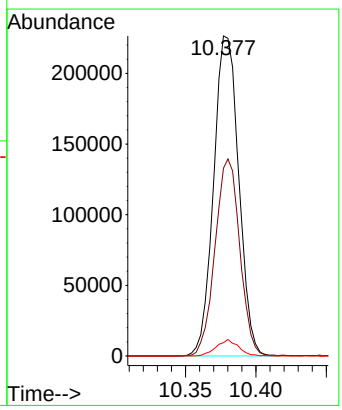


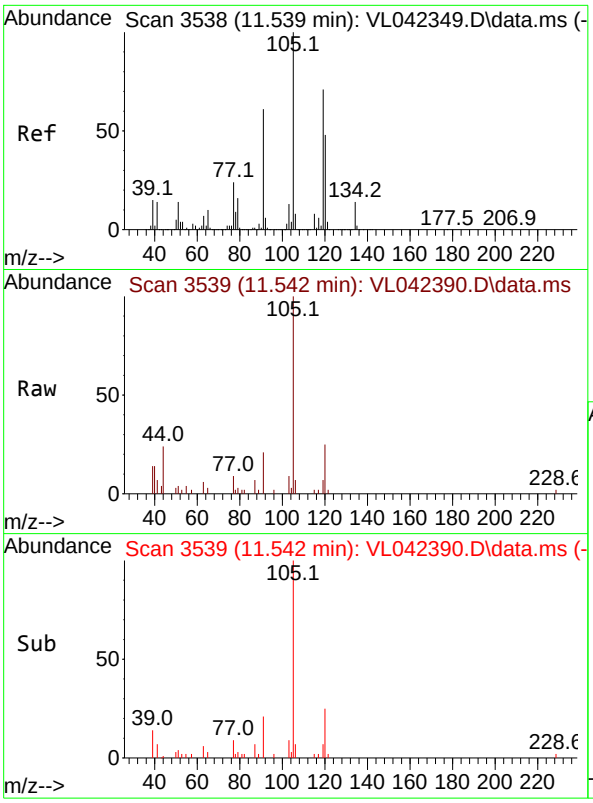


#68
1-Bromo-4-Fluorobenzene
Concen: 9.987 ppbv
RT: 10.377 min Scan# 3179
Delta R.T. 0.000 min
Lab File: VL042390.D
Acq: 18 Apr 2025 14:14

Tgt Ion: 95 Resp: 281379

Ion	Ratio	Lower	Upper
95	100		
174	60.5	48.5	72.7
175	4.5	3.7	5.5



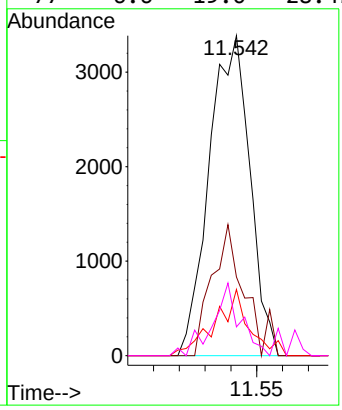


#74
1,2,4-Trimethylbenzene
Concen: 0.053 ppbv
RT: 11.542 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042390.D
Acq: 18 Apr 2025 14:14

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-2-03312025DL2

Tgt Ion:105 Resp: 3706

Ion	Ratio	Lower	Upper
105	100		
120	24.6	38.1	57.1#
91	18.9	48.8	73.2#
77	6.6	19.0	28.4#



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041825\
Data File : VL042391.D
Acq On : 18 Apr 2025 14:45
Operator : SY/MD
Sample : Q1726-05DL2 100X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025DL2

Quant Time: Apr 18 22:59:44 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

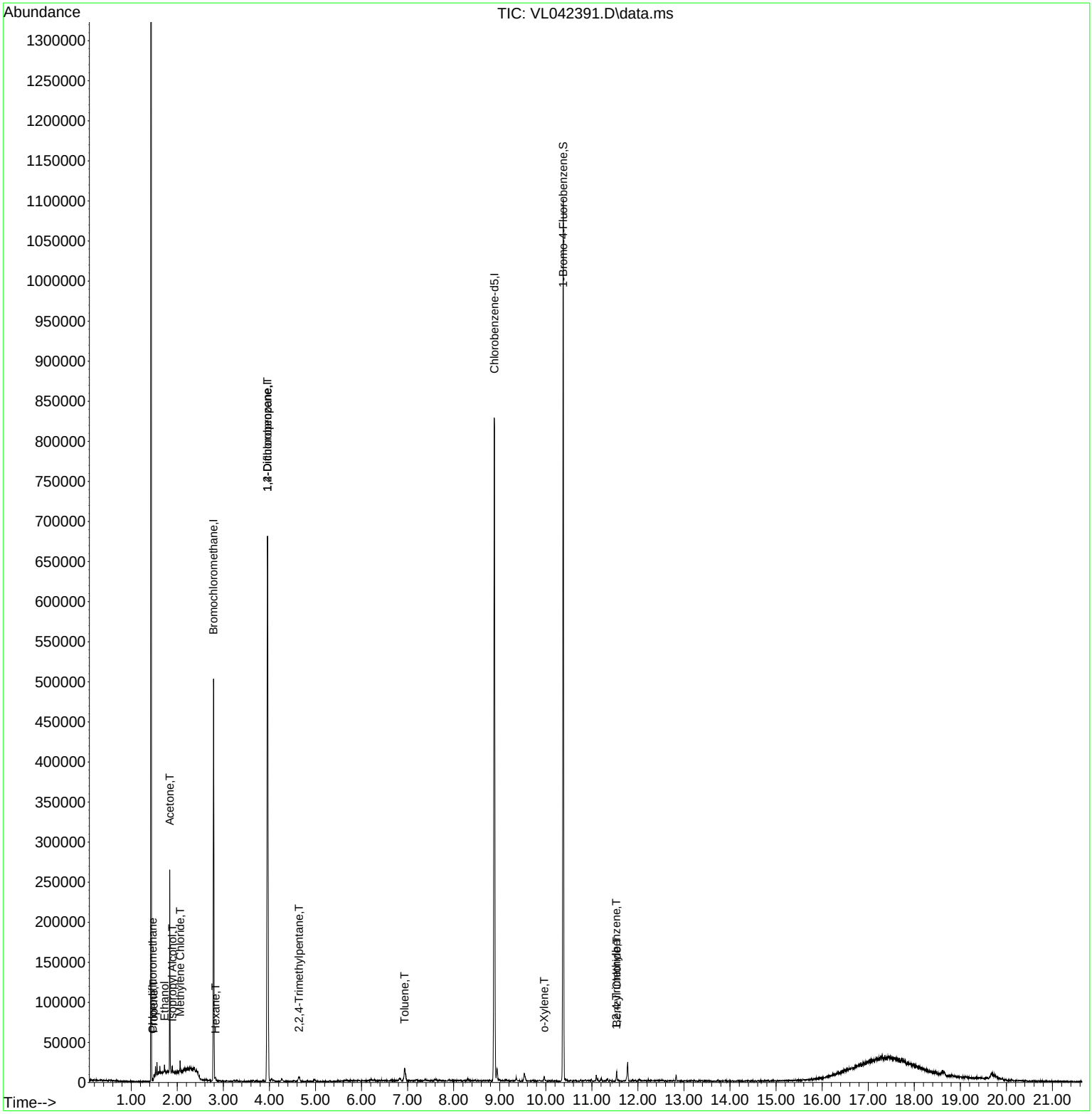
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.787	49	125703	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	390416	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.882	117	327579	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	273896	10.175	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 101.700%			
Target Compounds						Qvalue
3) Chlorodifluoromethane	1.466	51	721	0.034	ppbv #	90
9) Propene	1.486	41	476	0.049	ppbv #	15
13) Ethanol	1.722	45	3027	1.977	ppbv #	24
15) Acetone	1.835	43	104075	5.058	ppbv	99
19) Isopropyl Alcohol	1.890	45	3377	0.295	ppbv #	1
20) Methylene Chloride	2.062	84	1951	0.242	ppbv	93
26) Hexane	2.829	57	781	0.038	ppbv #	68
39) 1,2-Dichloropropane	3.959	63	101075	6.441	ppbv #	22
44) 2,2,4-Trimethylpentane	4.645	57	5432	0.075	ppbv #	79
53) Toluene	6.936	91	8344	0.165	ppbv #	84
60) o-Xylene	9.966	91	2871	0.055	ppbv	97
66) Benzyl Chloride	11.539	91	491	0.063	ppbv #	78
74) 1,2,4-Trimethylbenzene	11.532	105	2488	0.037	ppbv #	62

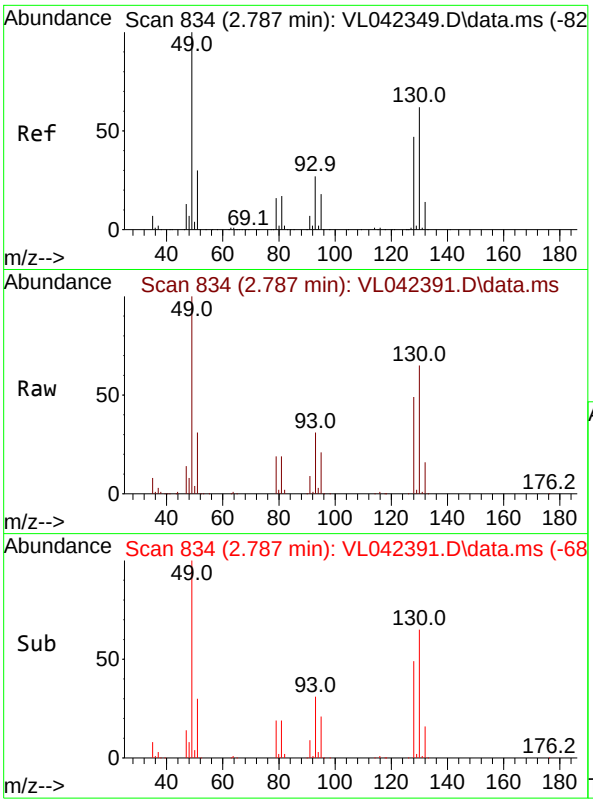
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041825\
Data File : VL042391.D
Acq On : 18 Apr 2025 14:45
Operator : SY/MD
Sample : Q1726-05DL2 100X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025DL2

Quant Time: Apr 18 22:59:44 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



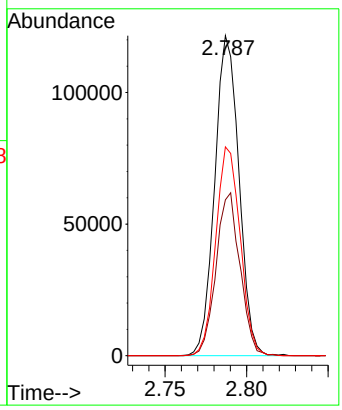


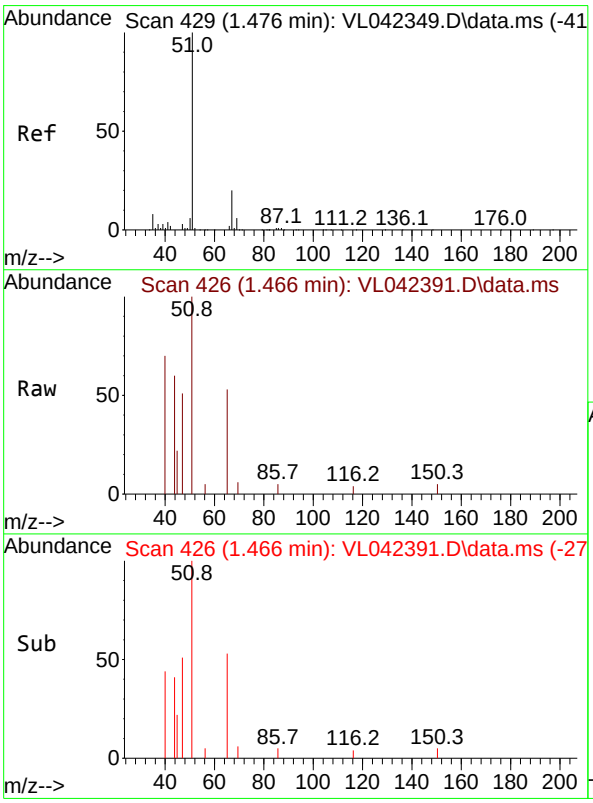
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL042391.D
Acq: 18 Apr 2025 14:45

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025DL2

Tgt Ion: 49 Resp: 125703

Ion	Ratio	Lower	Upper
49	100		
128	50.5	22.8	68.4
130	65.7	29.3	88.0

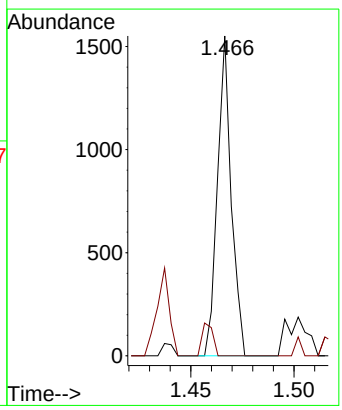


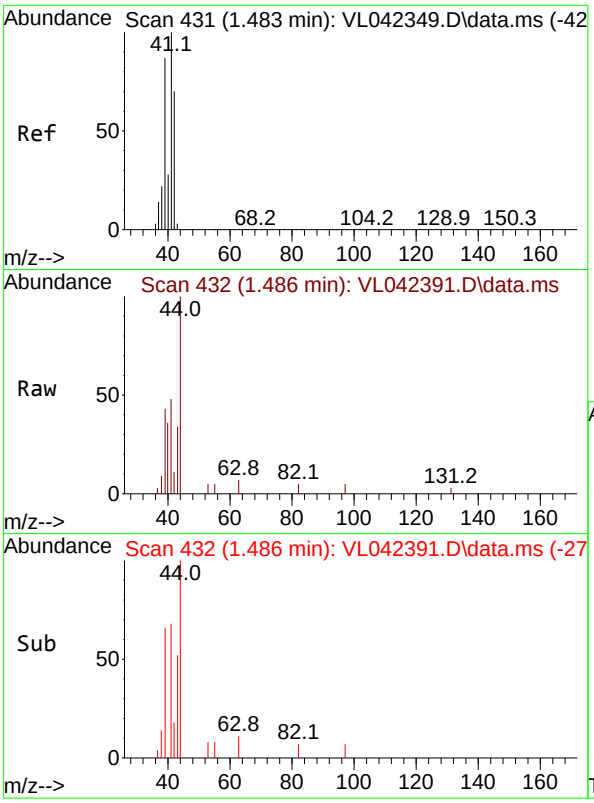


#3
Chlorodifluoromethane
Concen: 0.034 ppbv
RT: 1.466 min Scan# 426
Delta R.T. -0.010 min
Lab File: VL042391.D
Acq: 18 Apr 2025 14:45

Tgt Ion: 51 Resp: 721

Ion	Ratio	Lower	Upper
51	100		
67	25.1	16.2	24.4#



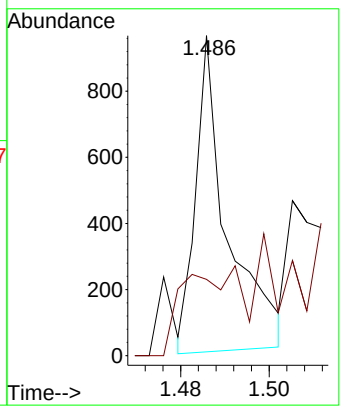


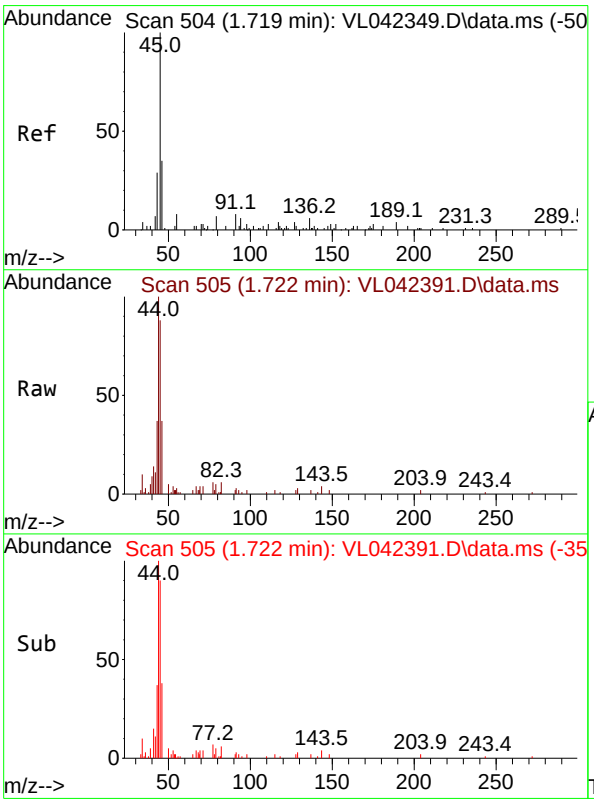
#9
Propene
Concen: 0.049 ppbv
RT: 1.486 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL042391.D
Acq: 18 Apr 2025 14:45

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025DL2

Tgt Ion: 41 Resp: 476

Ion	Ratio	Lower	Upper
41	100		
42	0.0	56.2	84.4#

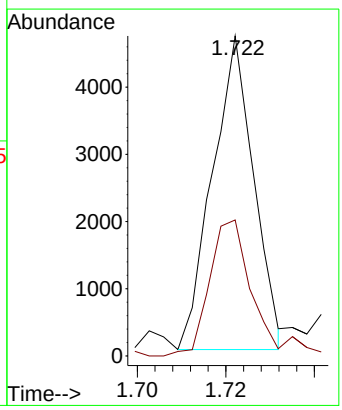


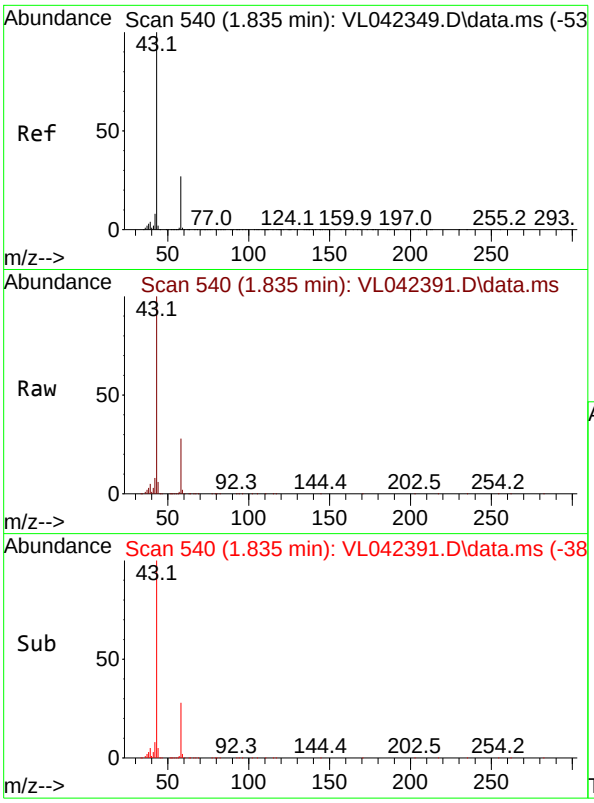


#13
Ethanol
Concen: 1.977 ppbv
RT: 1.722 min Scan# 505
Delta R.T. 0.003 min
Lab File: VL042391.D
Acq: 18 Apr 2025 14:45

Tgt Ion: 45 Resp: 3027

Ion	Ratio	Lower	Upper
45	100		
46	0.0	21.9	87.7#



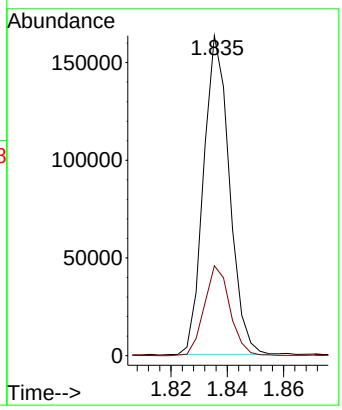


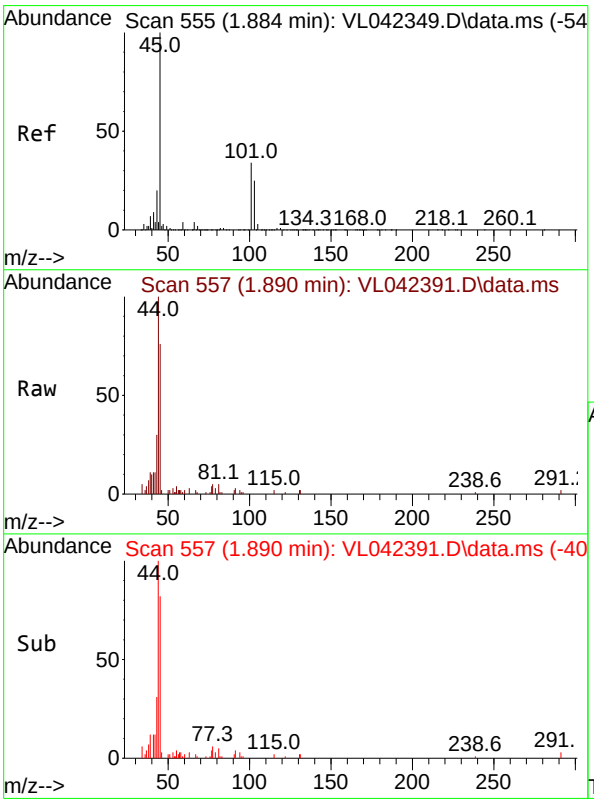
#15
Acetone
Concen: 5.058 ppbv
RT: 1.835 min Scan# 54
Delta R.T. 0.000 min
Lab File: VL042391.D
Acq: 18 Apr 2025 14:45

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025DL2

Tgt Ion: 43 Resp: 104075

Ion	Ratio	Lower	Upper
43	100		
58	28.5	22.4	33.6

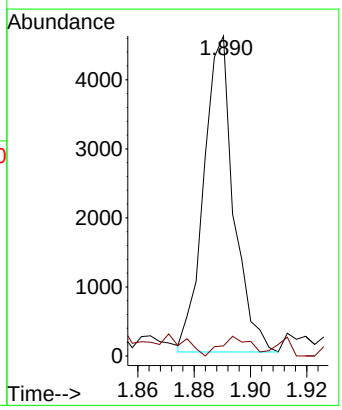


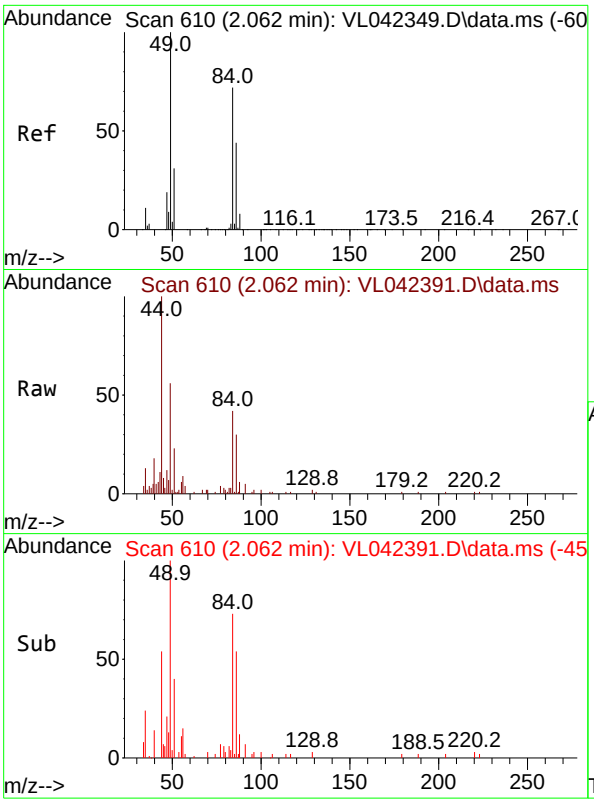


#19
Isopropyl Alcohol
Concen: 0.295 ppbv
RT: 1.890 min Scan# 557
Delta R.T. 0.006 min
Lab File: VL042391.D
Acq: 18 Apr 2025 14:45

Tgt Ion: 45 Resp: 3377

Ion	Ratio	Lower	Upper
45	100		
58	879.1	34.5	51.7#



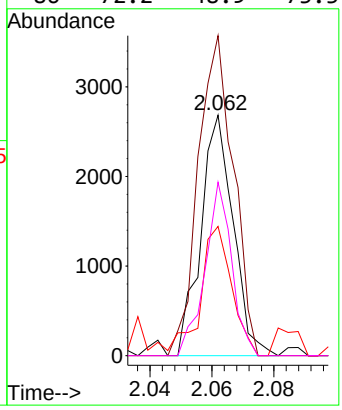


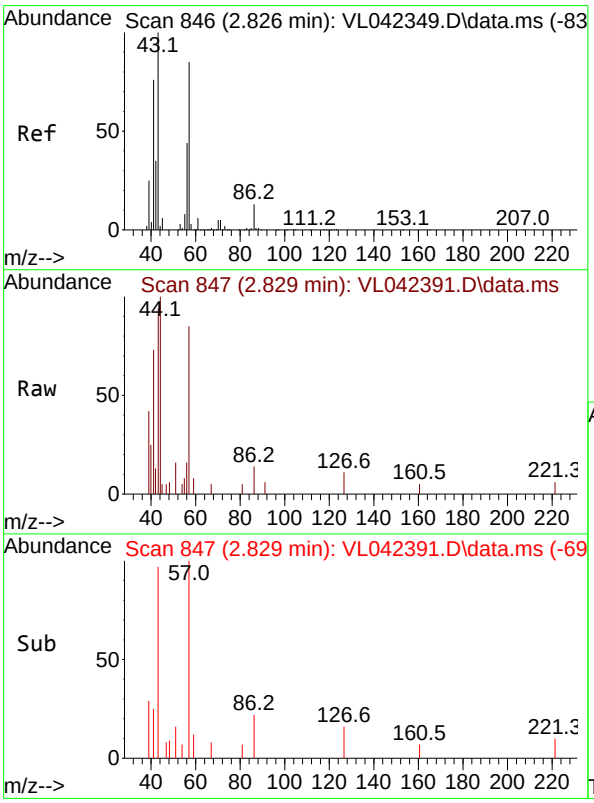
#20
Methylene Chloride
Concen: 0.242 ppbv
RT: 2.062 min Scan# 6
Delta R.T. 0.000 min
Lab File: VL042391.D
Acq: 18 Apr 2025 14:45

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025DL2

Tgt Ion: 84 Resp: 1951

Ion	Ratio	Lower	Upper
84	100		
49	133.1	111.6	167.4
51	44.2	35.1	52.7
86	72.2	48.9	73.3

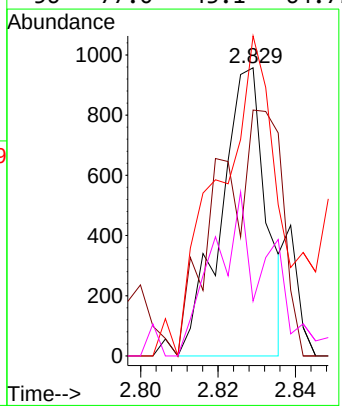


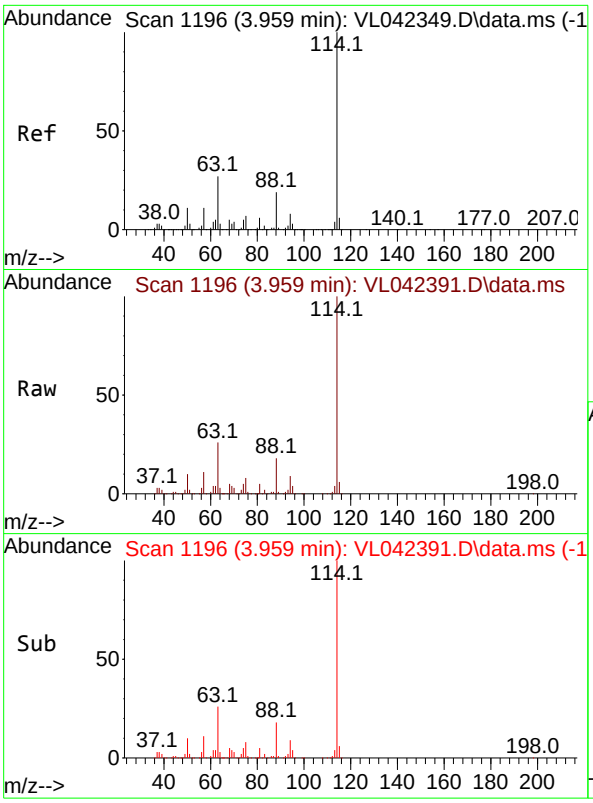


#26
Hexane
Concen: 0.038 ppbv
RT: 2.829 min Scan# 847
Delta R.T. 0.003 min
Lab File: VL042391.D
Acq: 18 Apr 2025 14:45

Tgt Ion: 57 Resp: 781

Ion	Ratio	Lower	Upper
57	100		
41	135.7	77.9	116.9#
43	208.5	208.4	312.6
56	77.0	43.1	64.7#



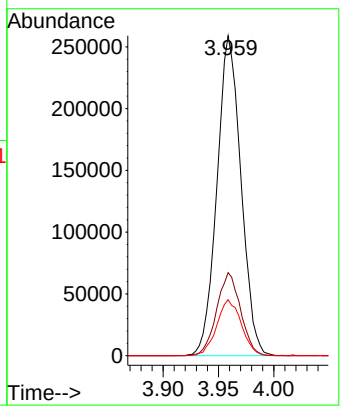


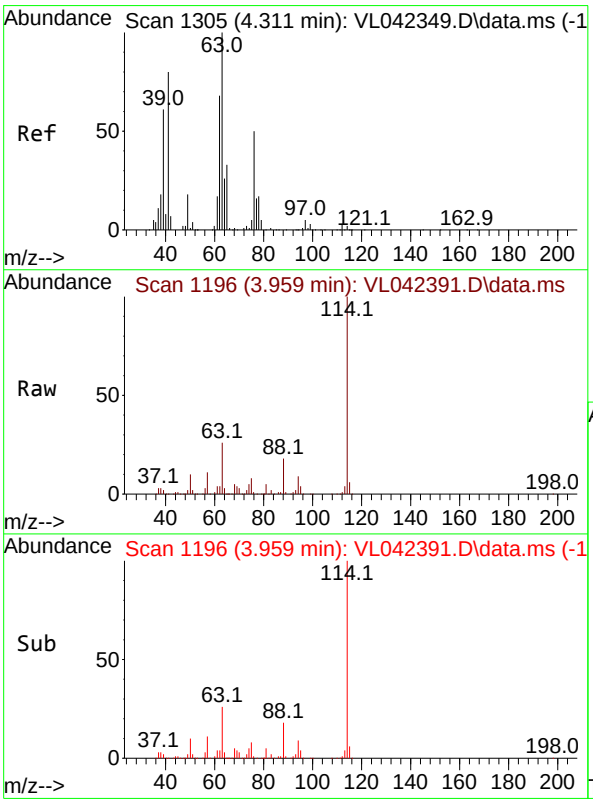
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.959 min Scan# 11
Delta R.T. 0.000 min
Lab File: VL042391.D
Acq: 18 Apr 2025 14:45

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025DL2

Tgt Ion:114 Resp: 390416

Ion	Ratio	Lower	Upper
114	100		
63	25.9	21.8	32.6
88	17.9	15.5	23.3

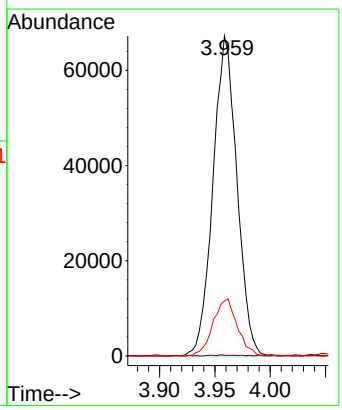


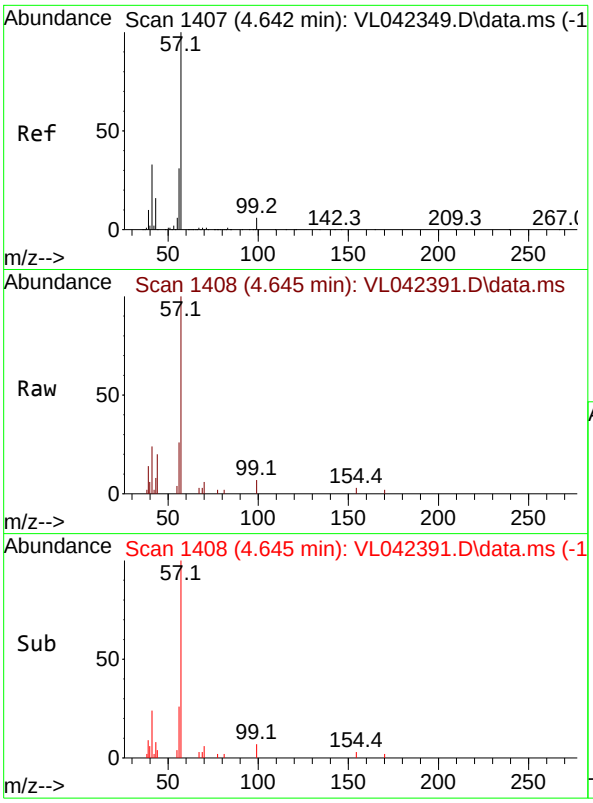


#39
1,2-Dichloropropane
Concen: 6.441 ppbv
RT: 3.959 min Scan# 1196
Delta R.T. -0.353 min
Lab File: VL042391.D
Acq: 18 Apr 2025 14:45

Tgt Ion: 63 Resp: 101075

Ion	Ratio	Lower	Upper
63	100		
41	0.0	64.2	96.2#
62	17.2	54.3	81.5#



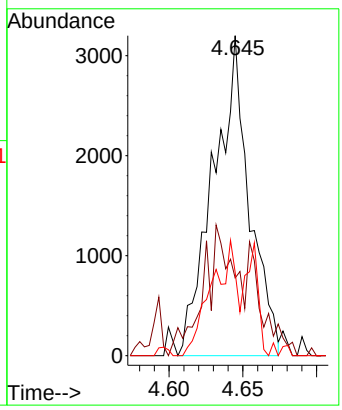


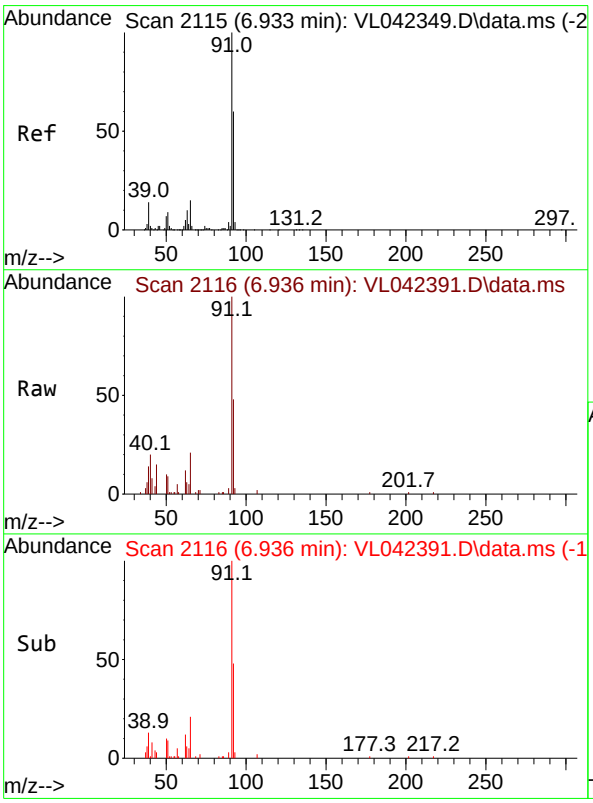
#44
2,2,4-Trimethylpentane
Concen: 0.075 ppbv
RT: 4.645 min Scan# 14
Delta R.T. 0.003 min
Lab File: VL042391.D
Acq: 18 Apr 2025 14:45

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025DL2

Tgt Ion: 57 Resp: 5432

Ion	Ratio	Lower	Upper
57	100		
41	51.0	27.2	40.8#
56	39.2	25.7	38.5#

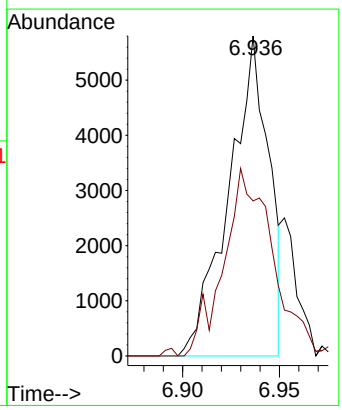


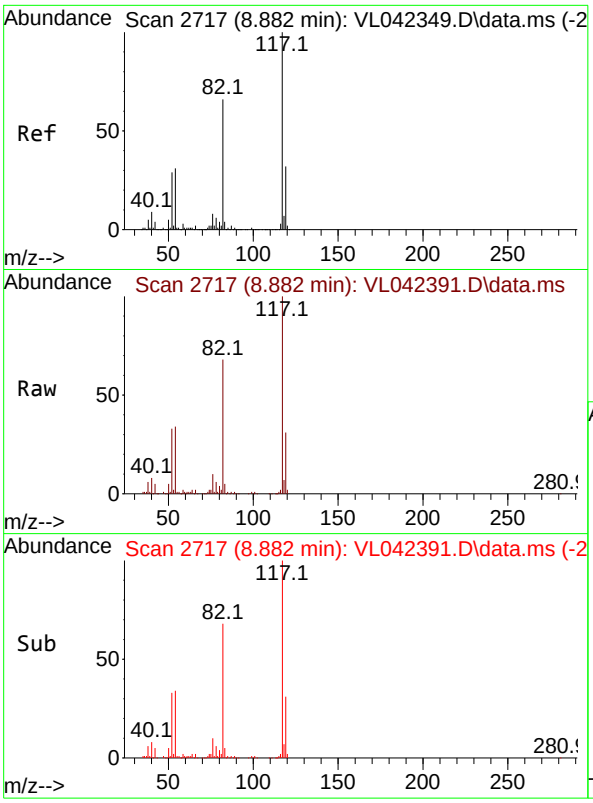


#53
Toluene
Concen: 0.165 ppbv
RT: 6.936 min Scan# 2116
Delta R.T. 0.003 min
Lab File: VL042391.D
Acq: 18 Apr 2025 14:45

Tgt Ion: 91 Resp: 8344

Ion	Ratio	Lower	Upper
91	100		
92	72.7	48.2	72.4#



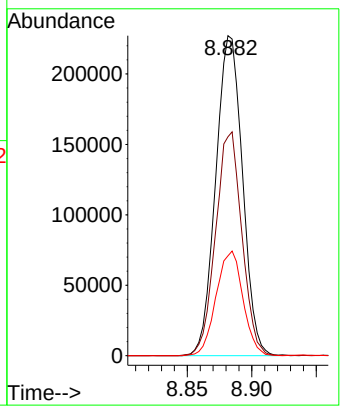


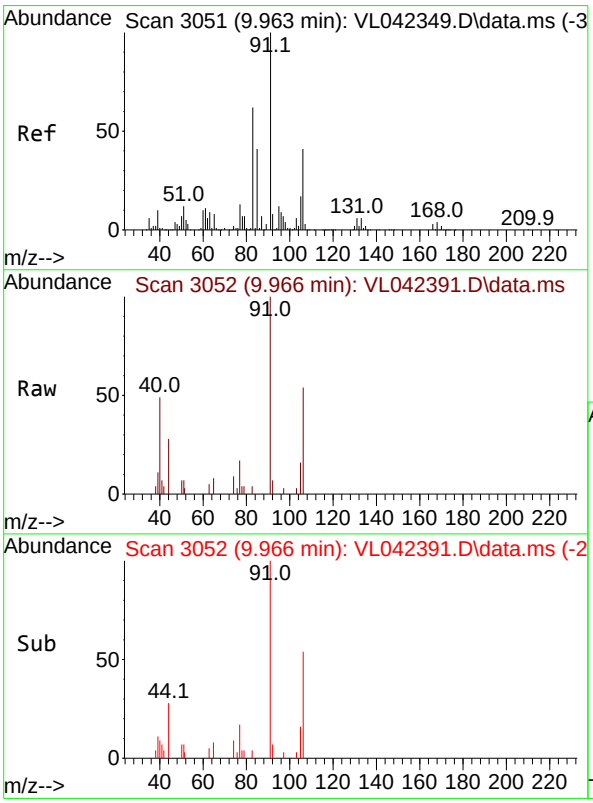
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.882 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042391.D
Acq: 18 Apr 2025 14:45

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025DL2

Tgt Ion:117 Resp: 327579

Ion	Ratio	Lower	Upper
117	100		
82	68.9	57.8	86.6
119	32.8	25.2	37.8

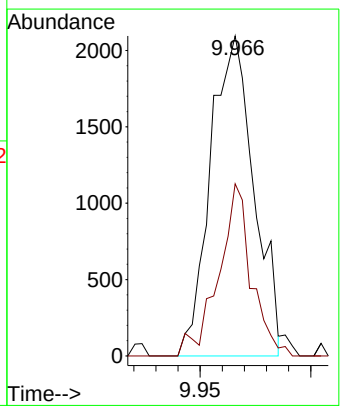


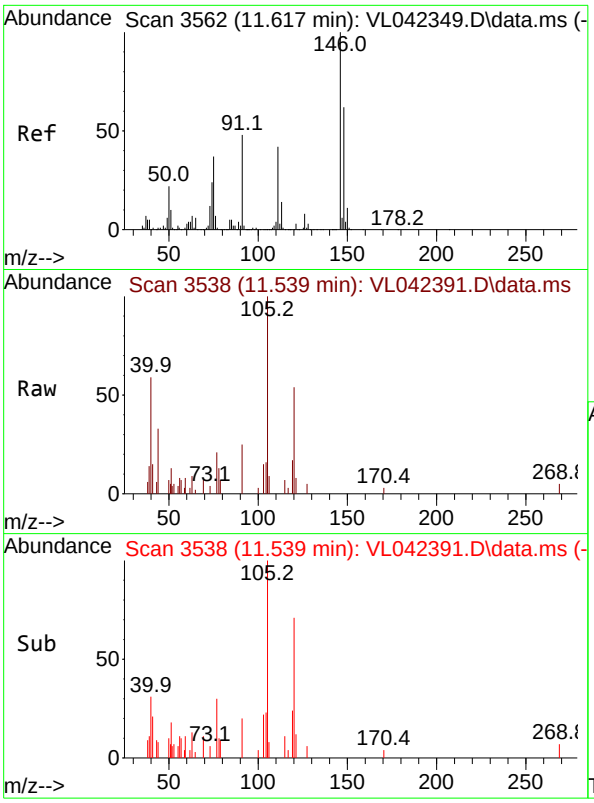


#60
o-Xylene
Concen: 0.055 ppbv
RT: 9.966 min Scan# 3052
Delta R.T. 0.003 min
Lab File: VL042391.D
Acq: 18 Apr 2025 14:45

Tgt Ion: 91 Resp: 2871

Ion	Ratio	Lower	Upper
91	100		
106	40.3	21.1	63.4



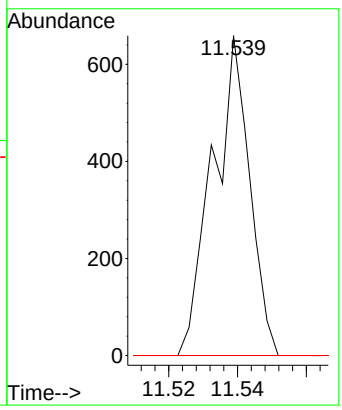


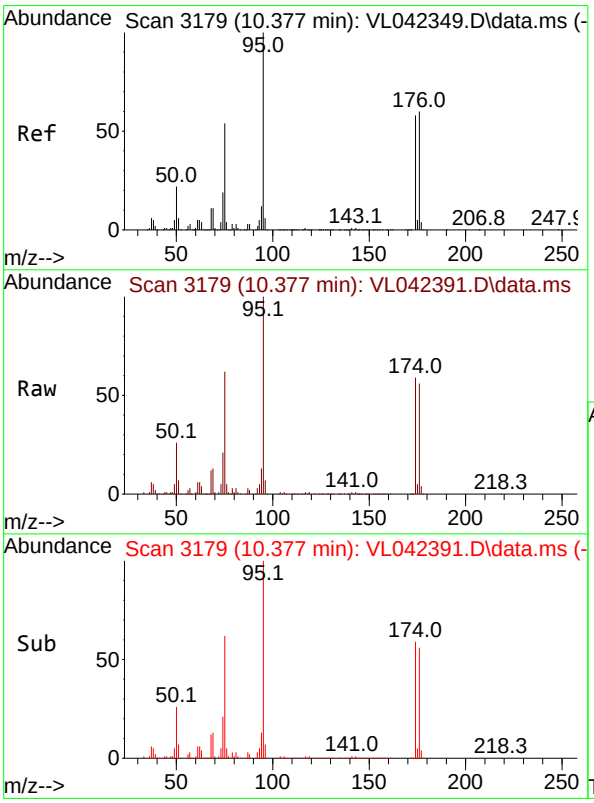
#66
Benzyl Chloride
Concen: 0.063 ppbv
RT: 11.539 min Scan# 3
Delta R.T. -0.078 min
Lab File: VL042391.D
Acq: 18 Apr 2025 14:45

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025DL2

Tgt Ion: 91 Resp: 491

Ion	Ratio	Lower	Upper
91	100		
126	4.7	11.8	17.6#
128	0.0	4.5	6.7#

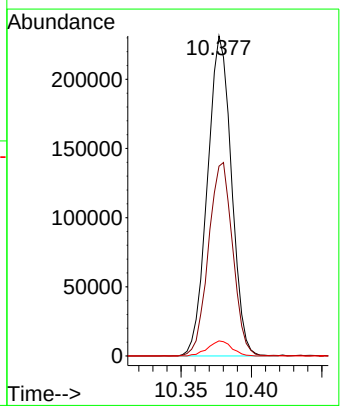


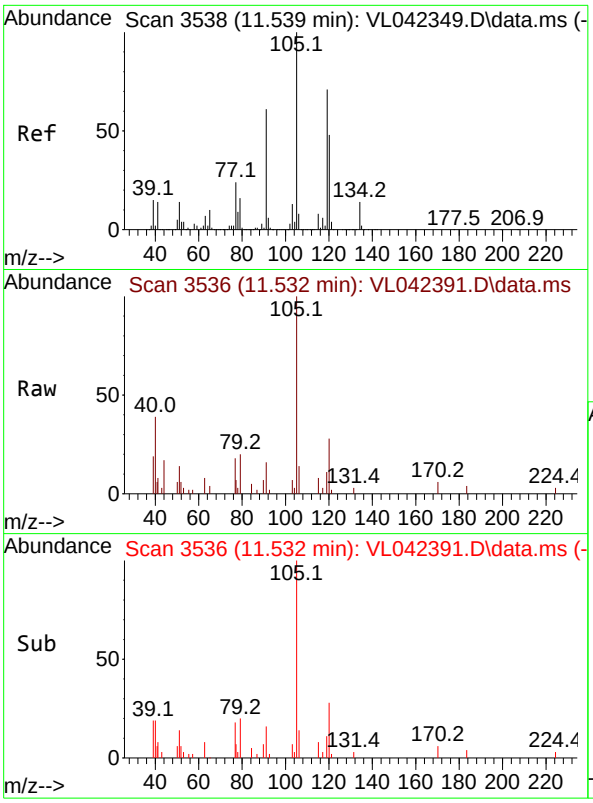


#68
1-Bromo-4-Fluorobenzene
Concen: 10.175 ppbv
RT: 10.377 min Scan# 3179
Delta R.T. 0.000 min
Lab File: VL042391.D
Acq: 18 Apr 2025 14:45

Tgt Ion: 95 Resp: 273896

Ion	Ratio	Lower	Upper
95	100		
174	61.3	48.5	72.7
175	4.7	3.7	5.5



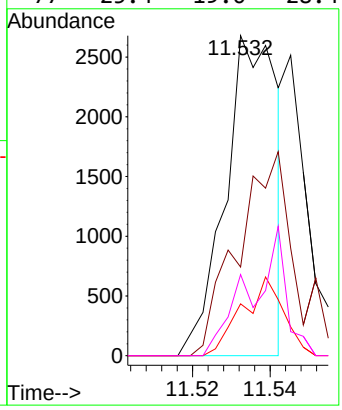


#74
1,2,4-Trimethylbenzene
Concen: 0.037 ppbv
RT: 11.532 min Scan# 3
Delta R.T. -0.006 min
Lab File: VL042391.D
Acq: 18 Apr 2025 14:45

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025DL2

Tgt Ion:105 Resp: 2488

Ion	Ratio	Lower	Upper
105	100		
120	27.7	38.1	57.1#
91	16.2	48.8	73.2#
77	25.4	19.0	28.4



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041825\
Data File : VL042392.D
Acq On : 18 Apr 2025 15:16
Operator : SY/MD
Sample : Q1726-06DL2 100X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025DL2

Quant Time: Apr 18 23:00:07 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

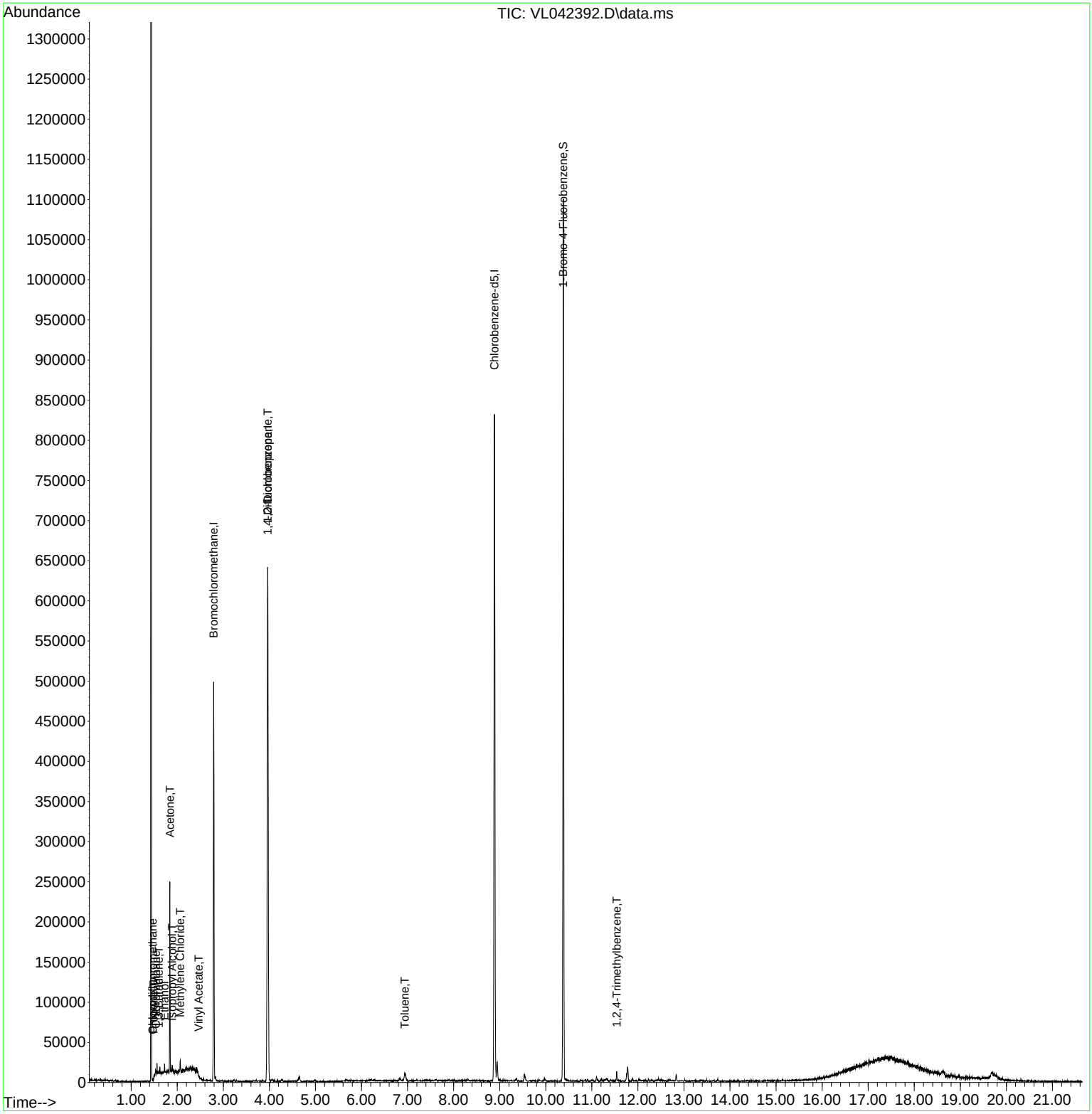
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.791	49	121646	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.966	114	379829	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	325040	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.381	95	267080	9.999	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 100.000%			
Target Compounds						Qvalue
3) Chlorodifluoromethane	1.467	51	950	0.046	ppbv #	76
4) Chloromethane	1.535	50	307	0.036	ppbv #	52
9) Propene	1.486	41	348	0.037	ppbv #	15
13) Ethanol	1.723	45	4246	2.866	ppbv #	24
15) Acetone	1.839	43	102862	5.165	ppbv	98
16) 1,3-Butadiene	1.603	39	411	0.043	ppbv #	9
19) Isopropyl Alcohol	1.888	45	3881	0.351	ppbv #	1
20) Methylene Chloride	2.062	84	2263	0.290	ppbv #	84
23) Vinyl Acetate	2.464	43	503	0.062	ppbv #	1
39) 1,2-Dichloropropane	3.962	63	96830	6.343	ppbv #	22
53) Toluene	6.940	91	1886	0.038	ppbv #	1
74) 1,2,4-Trimethylbenzene	11.539	105	3442	0.052	ppbv #	71

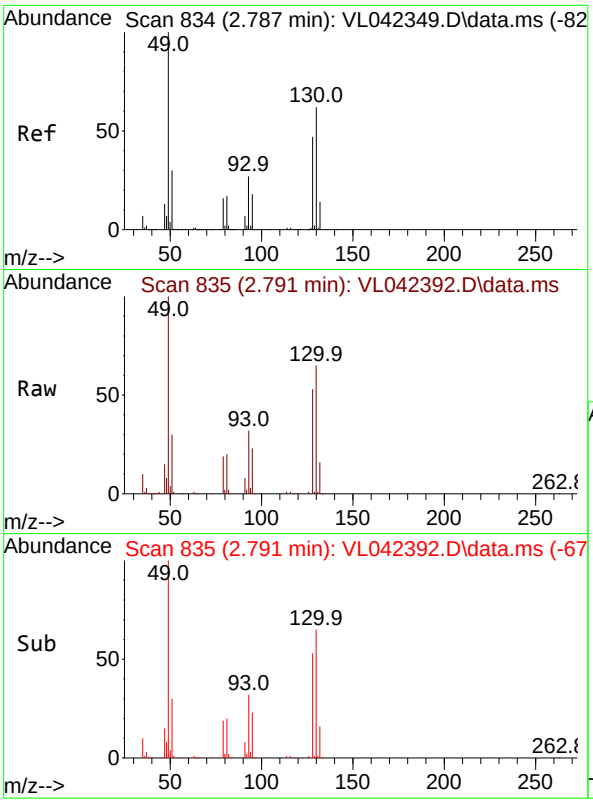
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041825\
Data File : VL042392.D
Acq On : 18 Apr 2025 15:16
Operator : SY/MD
Sample : Q1726-06DL2 100X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025DL2

Quant Time: Apr 18 23:00:07 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



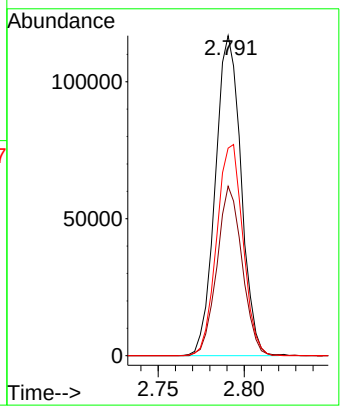


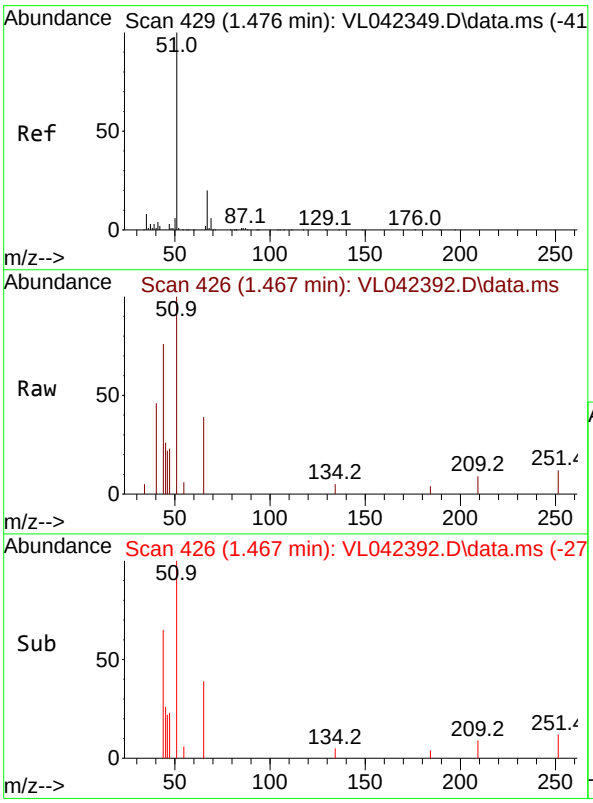
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.791 min Scan# 8
Delta R.T. 0.004 min
Lab File: VL042392.D
Acq: 18 Apr 2025 15:16

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025DL2

Tgt Ion: 49 Resp: 121646

Ion	Ratio	Lower	Upper
49	100		
128	51.9	22.8	68.4
130	67.3	29.3	88.0

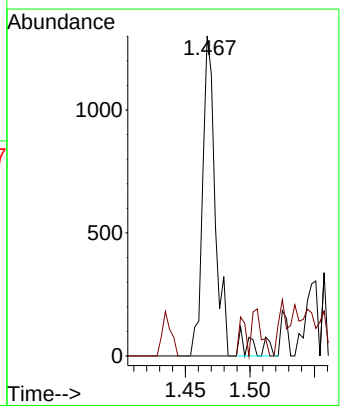


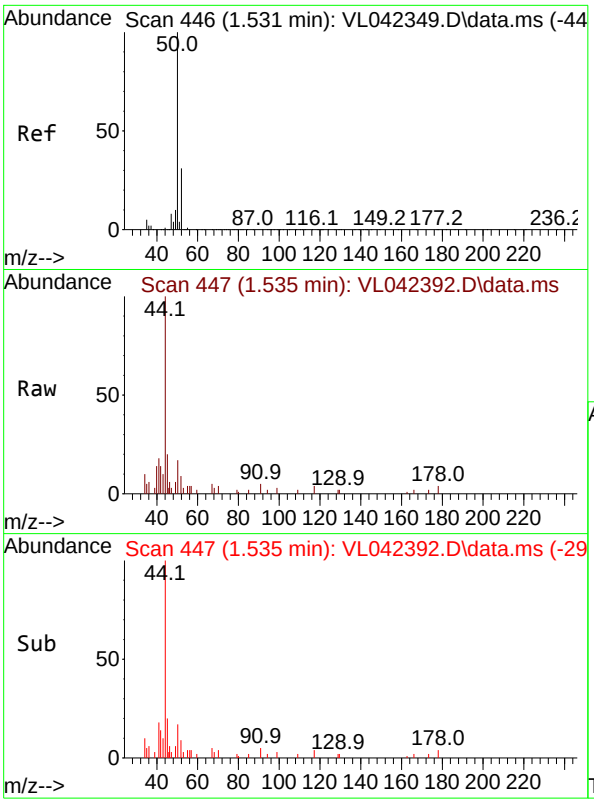


#3
Chlorodifluoromethane
Concen: 0.046 ppbv
RT: 1.467 min Scan# 426
Delta R.T. -0.009 min
Lab File: VL042392.D
Acq: 18 Apr 2025 15:16

Tgt Ion: 51 Resp: 950

Ion	Ratio	Lower	Upper
51	100		
67	9.1	16.2	24.4#



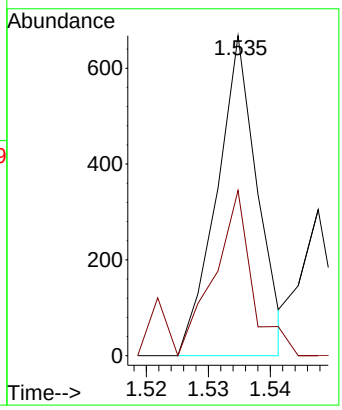


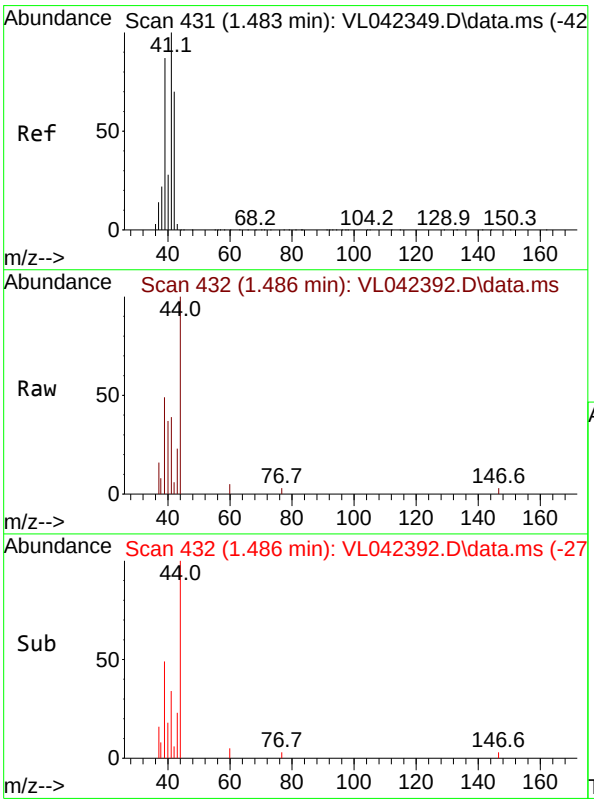
#4
Chloromethane
Concen: 0.036 ppbv
RT: 1.535 min Scan# 44
Delta R.T. 0.004 min
Lab File: VL042392.D
Acq: 18 Apr 2025 15:16

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025DL2

Tgt Ion: 50 Resp: 307

Ion	Ratio	Lower	Upper
50	100		
52	57.2	24.7	37.1#

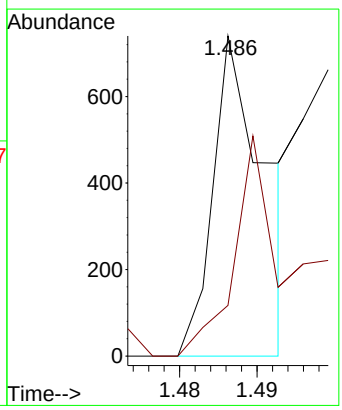


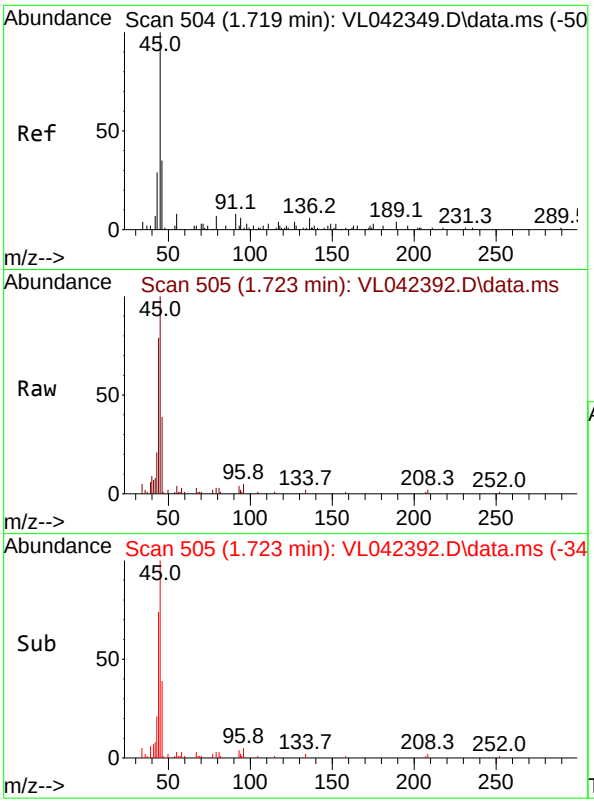


#9
Propene
Concen: 0.037 ppbv
RT: 1.486 min Scan# 432
Delta R.T. 0.004 min
Lab File: VL042392.D
Acq: 18 Apr 2025 15:16

Tgt Ion: 41 Resp: 348

Ion	Ratio	Lower	Upper
41	100		
42	0.0	56.2	84.4#



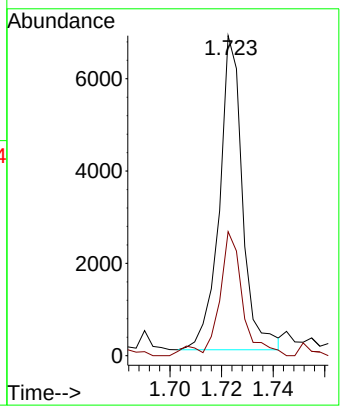


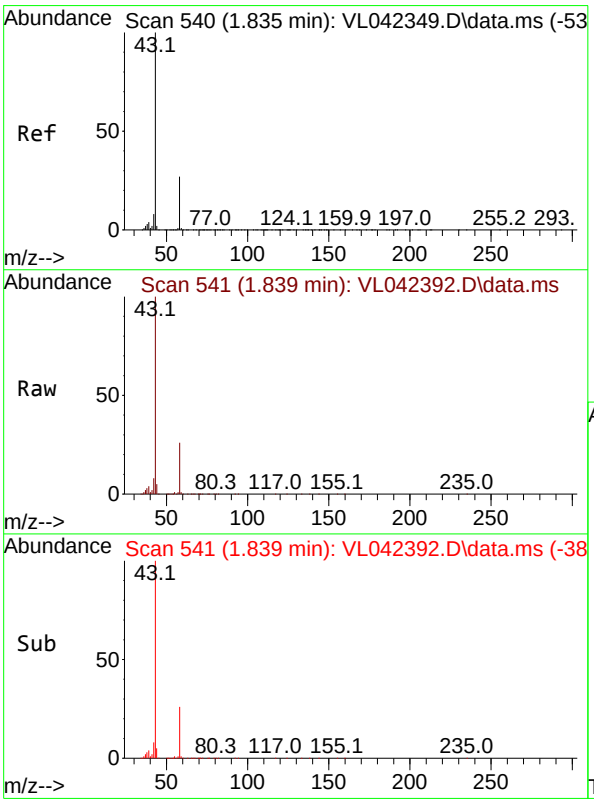
#13
Ethanol
Concen: 2.866 ppbv
RT: 1.723 min Scan# 5
Delta R.T. 0.004 min
Lab File: VL042392.D
Acq: 18 Apr 2025 15:16

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025DL2

Tgt Ion: 45 Resp: 4246

Ion	Ratio	Lower	Upper
45	100		
46	0.0	21.9	87.7#

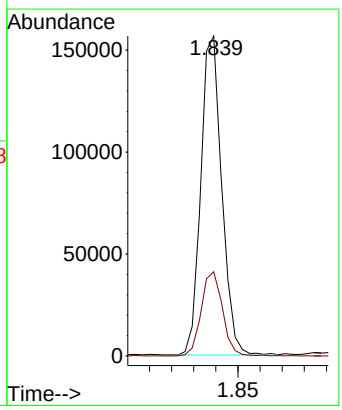


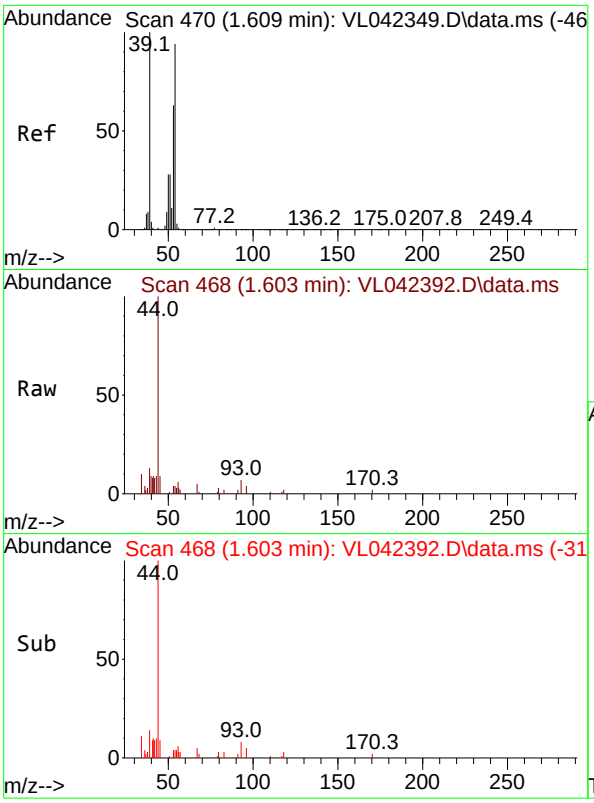


#15
Acetone
Concen: 5.165 ppbv
RT: 1.839 min Scan# 541
Delta R.T. 0.004 min
Lab File: VL042392.D
Acq: 18 Apr 2025 15:16

Tgt Ion: 43 Resp: 102862

Ion	Ratio	Lower	Upper
43	100		
58	27.1	22.4	33.6



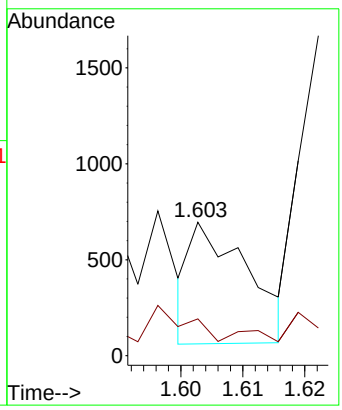


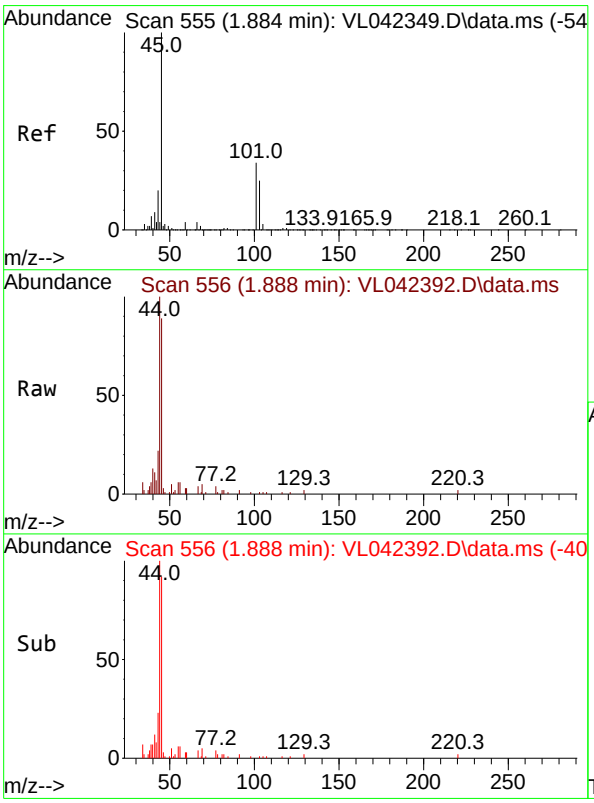
#16
1,3-Butadiene
Concen: 0.043 ppbv
RT: 1.603 min Scan# 4
Delta R.T. -0.006 min
Lab File: VL042392.D
Acq: 18 Apr 2025 15:16

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025DL2

Tgt Ion: 39 Resp: 411

Ion	Ratio	Lower	Upper
39	100		
54	0.0	64.9	97.3#

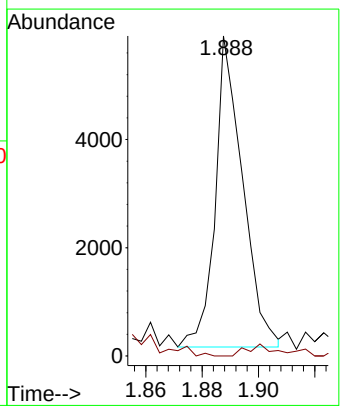


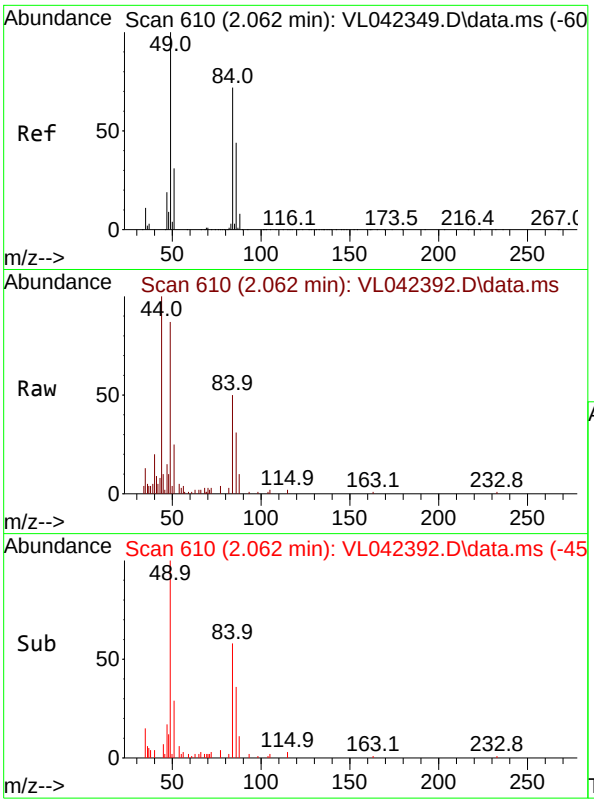


#19
Isopropyl Alcohol
Concen: 0.351 ppbv
RT: 1.888 min Scan# 556
Delta R.T. 0.004 min
Lab File: VL042392.D
Acq: 18 Apr 2025 15:16

Tgt Ion: 45 Resp: 3881

Ion	Ratio	Lower	Upper
45	100		
58	717.0	34.5	51.7#



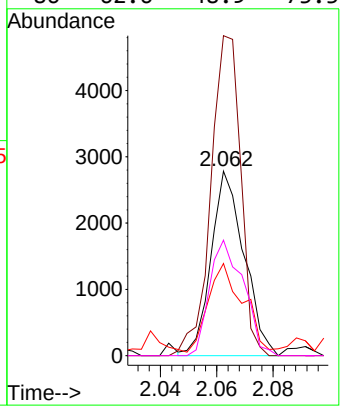


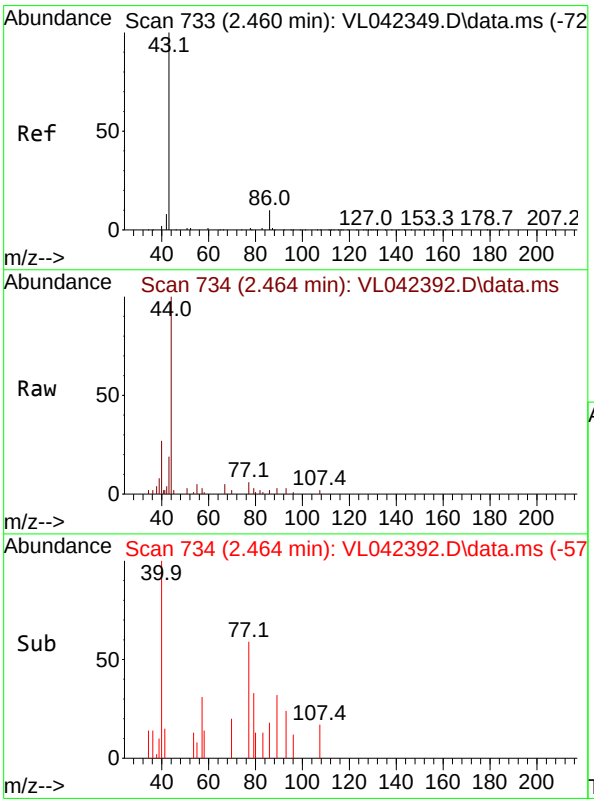
#20
Methylene Chloride
Concen: 0.290 ppbv
RT: 2.062 min Scan# 61
Delta R.T. 0.000 min
Lab File: VL042392.D
Acq: 18 Apr 2025 15:16

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025DL2

Tgt Ion: 84 Resp: 2263

Ion	Ratio	Lower	Upper
84	100		
49	170.8	111.6	167.4#
51	46.6	35.1	52.7
86	62.6	48.9	73.3

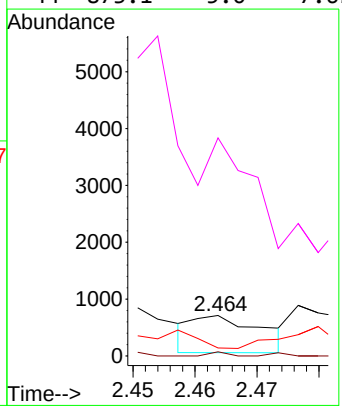


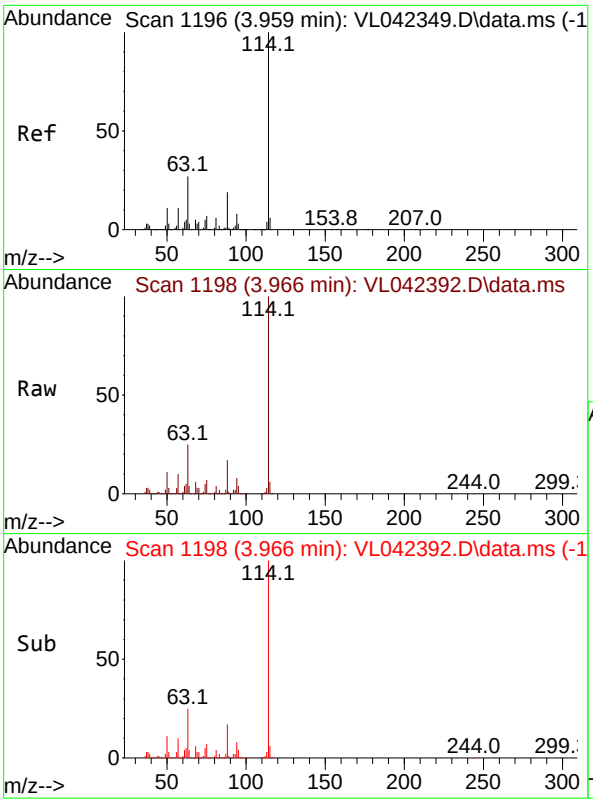


#23
Vinyl Acetate
Concen: 0.062 ppbv
RT: 2.464 min Scan# 734
Delta R.T. 0.004 min
Lab File: VL042392.D
Acq: 18 Apr 2025 15:16

Tgt Ion: 43 Resp: 503

Ion	Ratio	Lower	Upper
43	100		
86	32.7	6.5	9.7#
42	0.0	7.8	11.8#
44	873.1	5.0	7.6#



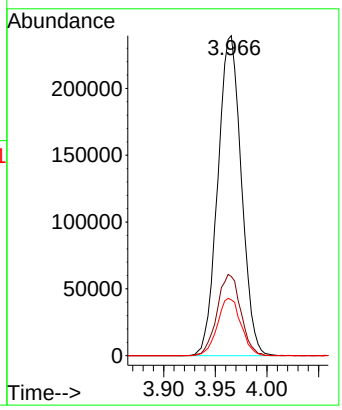


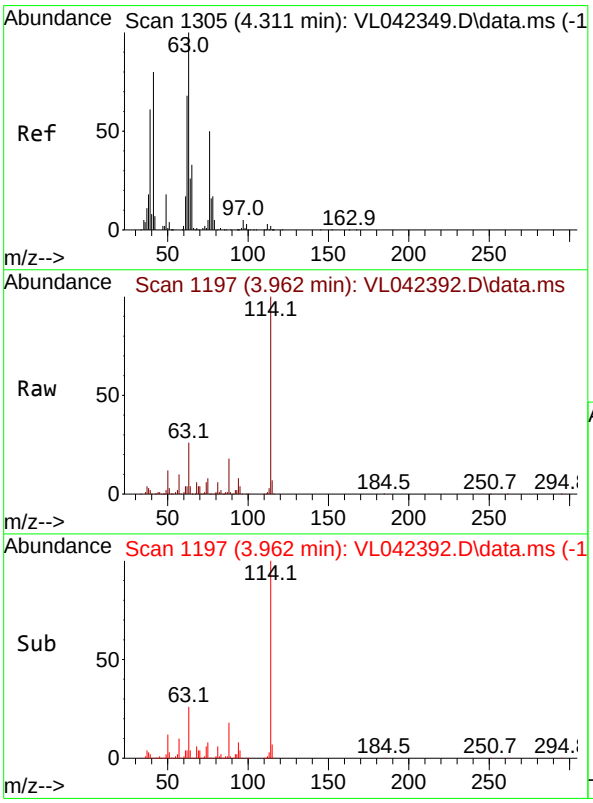
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.966 min Scan# 11
Delta R.T. 0.007 min
Lab File: VL042392.D
Acq: 18 Apr 2025 15:16

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025DL2

Tgt Ion:114 Resp: 379829

Ion	Ratio	Lower	Upper
114	100		
63	25.5	21.8	32.6
88	17.9	15.5	23.3

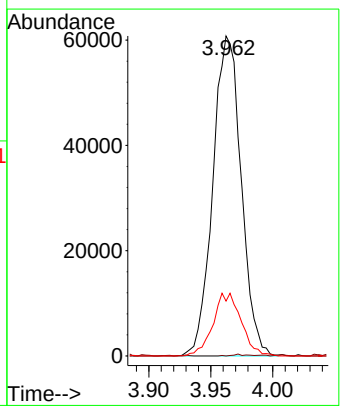


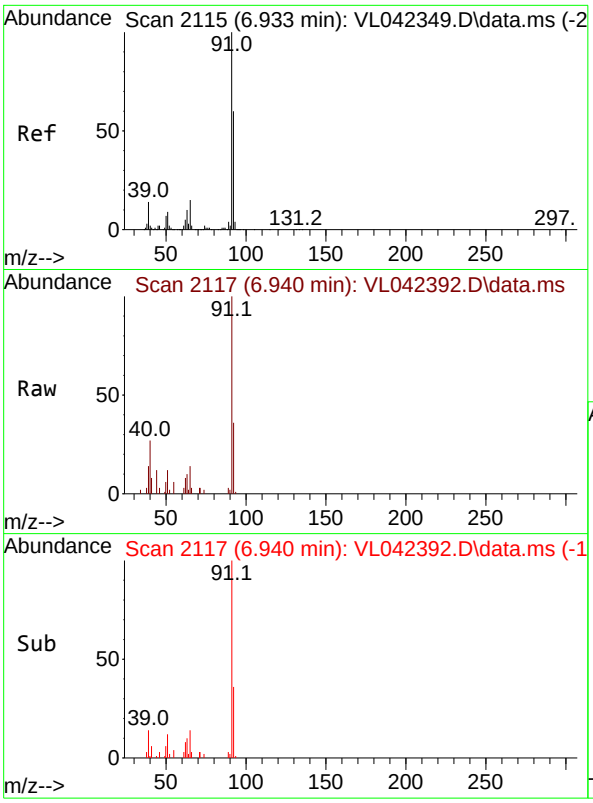


#39
1,2-Dichloropropane
Concen: 6.343 ppbv
RT: 3.962 min Scan# 1197
Delta R.T. -0.349 min
Lab File: VL042392.D
Acq: 18 Apr 2025 15:16

Tgt Ion: 63 Resp: 96830

Ion	Ratio	Lower	Upper
63	100		
41	0.0	64.2	96.2#
62	17.2	54.3	81.5#



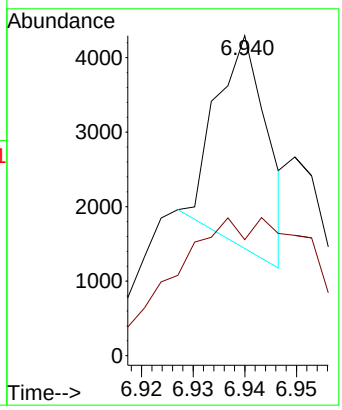


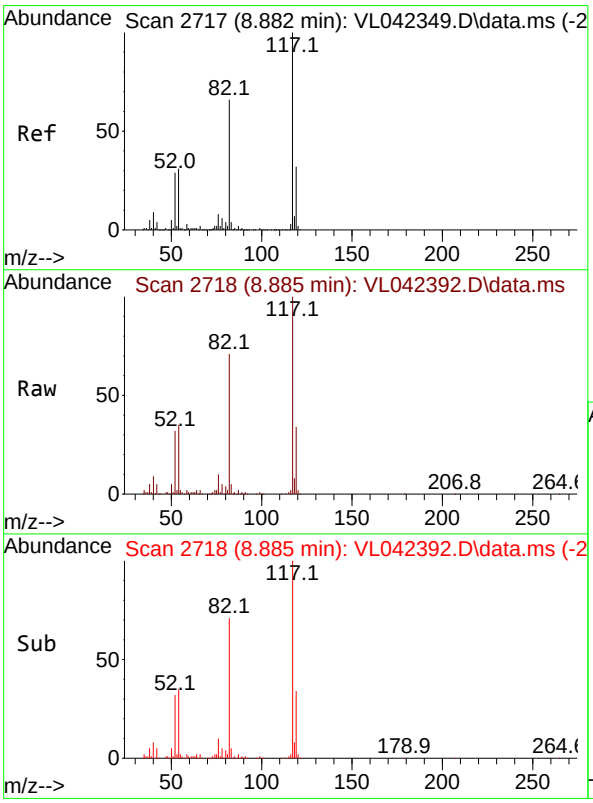
#53
Toluene
Concen: 0.038 ppbv
RT: 6.940 min Scan# 21
Delta R.T. 0.007 min
Lab File: VL042392.D
Acq: 18 Apr 2025 15:16

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025DL2

Tgt Ion: 91 Resp: 1886

Ion	Ratio	Lower	Upper
91	100		
92	211.8	48.2	72.4#

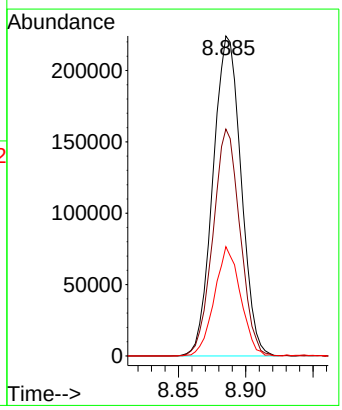


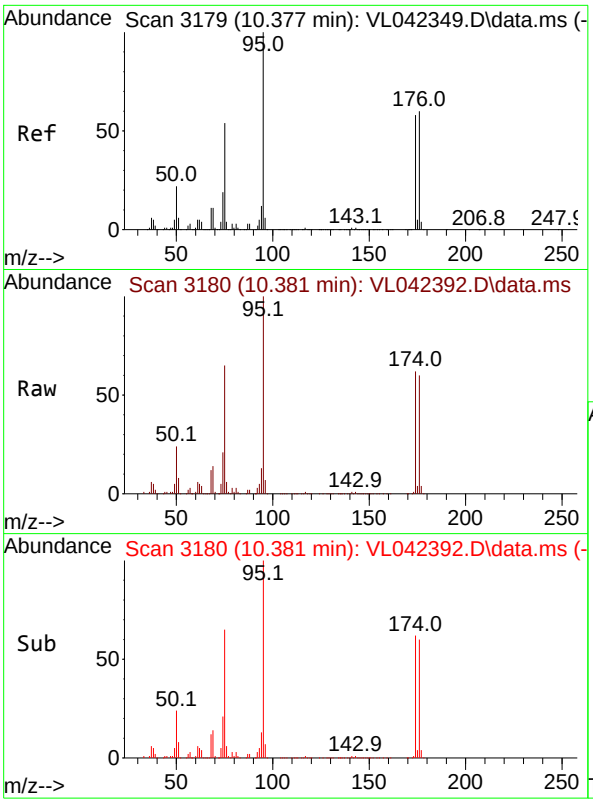


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.885 min Scan# 2718
Delta R.T. 0.004 min
Lab File: VL042392.D
Acq: 18 Apr 2025 15:16

Tgt Ion:117 Resp: 325040

Ion	Ratio	Lower	Upper
117	100		
82	68.5	57.8	86.6
119	32.0	25.2	37.8



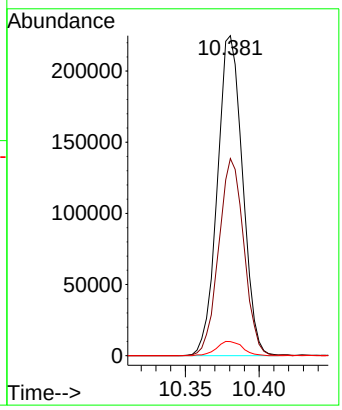


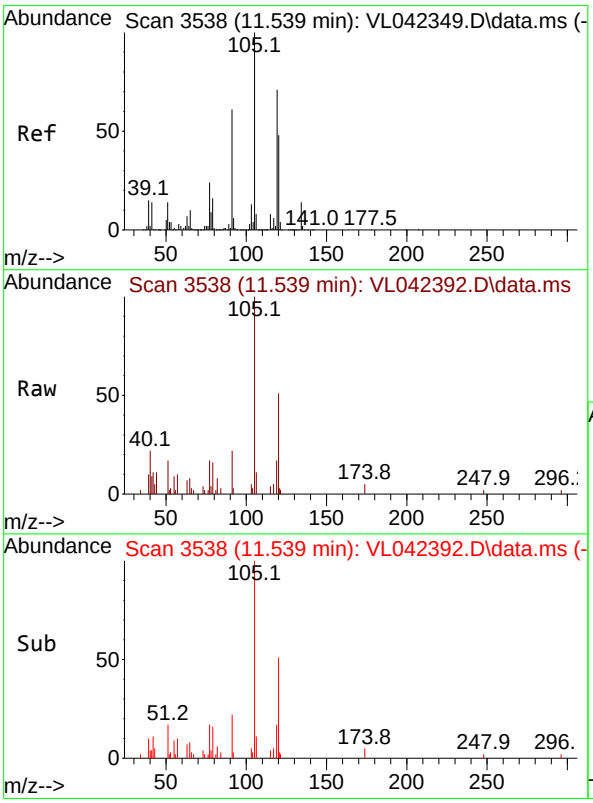
#68
1-Bromo-4-Fluorobenzene
Concen: 9.999 ppbv
RT: 10.381 min Scan# 3
Delta R.T. 0.004 min
Lab File: VL042392.D
Acq: 18 Apr 2025 15:16

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025DL2

Tgt Ion: 95 Resp: 267080

Ion	Ratio	Lower	Upper
95	100		
174	61.9	48.5	72.7
175	4.6	3.7	5.5

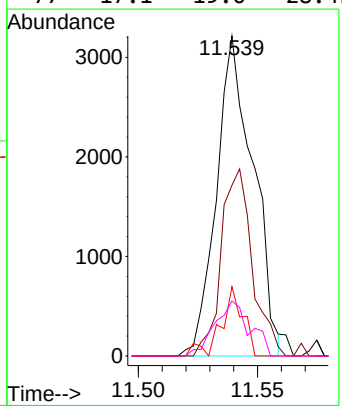




#74
1,2,4-Trimethylbenzene
Concen: 0.052 ppbv
RT: 11.539 min Scan# 3538
Delta R.T. 0.000 min
Lab File: VL042392.D
Acq: 18 Apr 2025 15:16

Tgt Ion:105 Resp: 3442

Ion	Ratio	Lower	Upper
105	100		
120	53.3	38.1	57.1
91	21.6	48.8	73.2#
77	17.1	19.0	28.4#



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041825\
Data File : VL042393.D
Acq On : 18 Apr 2025 15:47
Operator : SY/MD
Sample : Q1726-06DL2DUP 100X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025DL2DUP

Quant Time: Apr 18 23:00:28 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

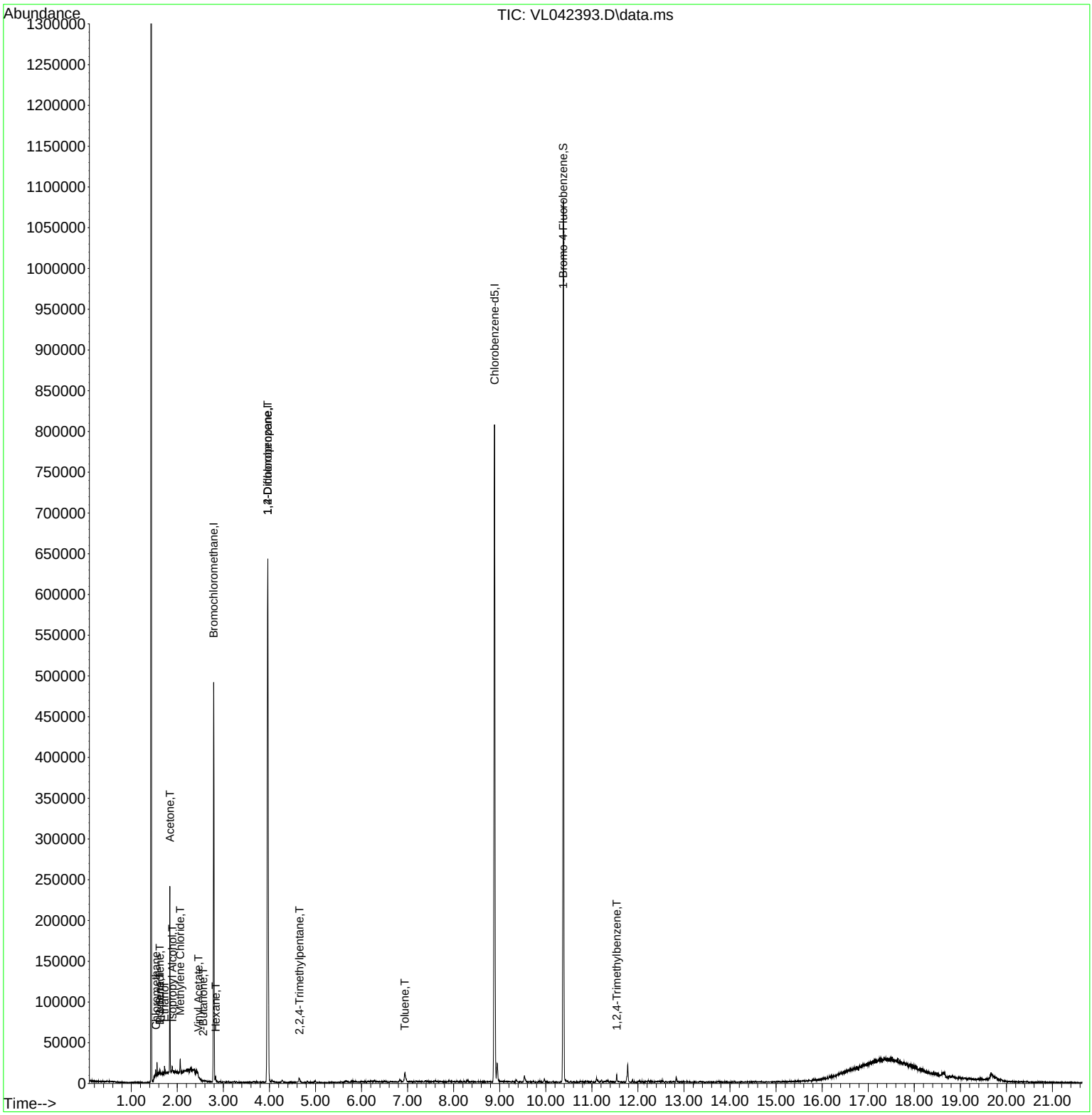
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.790	49	123948	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	373006	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.888	117	318921	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.380	95	266367	10.164	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 101.600%			
Target Compounds						Qvalue
4) Chloromethane	1.538	50	353	0.041	ppbv #	61
9) Propene	1.622	41	1182	0.124	ppbv	99
13) Ethanol	1.722	45	3385	2.243	ppbv #	24
15) Acetone	1.839	43	96169	4.740	ppbv	100
16) 1,3-Butadiene	1.622	39	969	0.100	ppbv #	9
19) Isopropyl Alcohol	1.891	45	3389	0.301	ppbv #	1
20) Methylene Chloride	2.062	84	2513	0.316	ppbv #	79
23) Vinyl Acetate	2.457	43	1031	0.126	ppbv #	1
26) Hexane	2.833	57	1405	0.069	ppbv #	24
34) 2-Butanone	2.561	43	1152	0.039	ppbv #	72
39) 1,2-Dichloropropane	3.965	63	96794	6.456	ppbv #	22
44) 2,2,4-Trimethylpentane	4.652	57	3098	0.045	ppbv #	34
53) Toluene	6.940	91	6073	0.126	ppbv	90
74) 1,2,4-Trimethylbenzene	11.539	105	3019	0.047	ppbv #	65

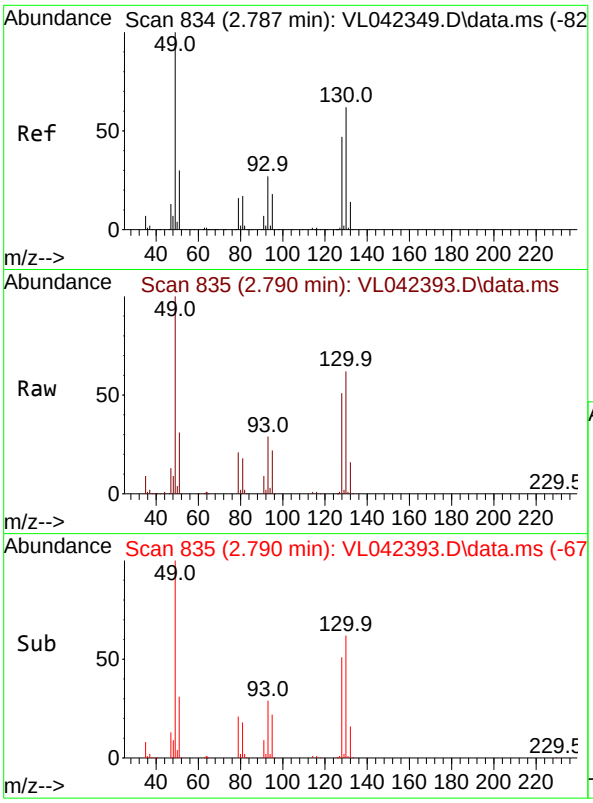
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041825\
Data File : VL042393.D
Acq On : 18 Apr 2025 15:47
Operator : SY/MD
Sample : Q1726-06DL2DUP 100X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025DL2DUP

Quant Time: Apr 18 23:00:28 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



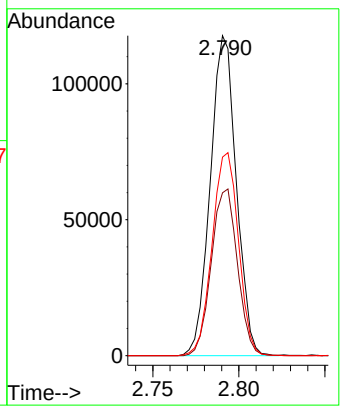


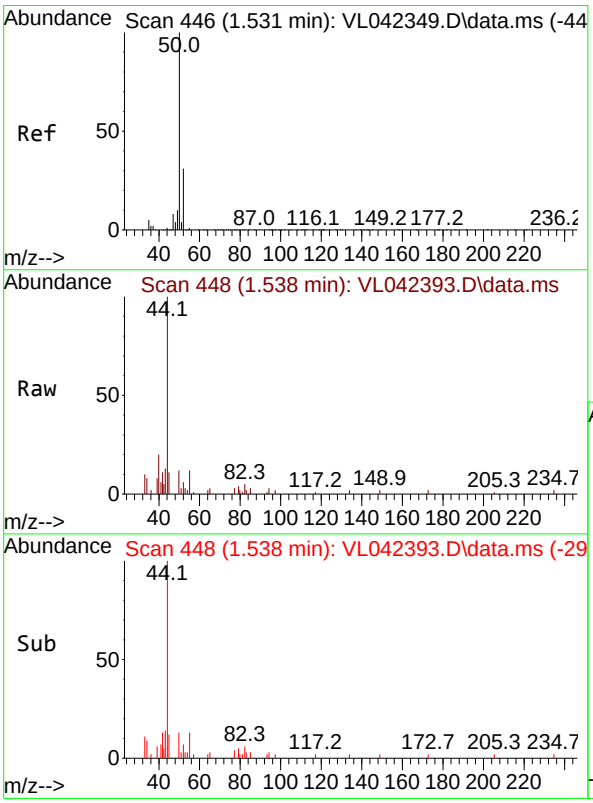
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042393.D
Acq: 18 Apr 2025 15:47

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025DL2DUP

Tgt Ion: 49 Resp: 123948

Ion	Ratio	Lower	Upper
49	100		
128	52.3	22.8	68.4
130	64.1	29.3	88.0

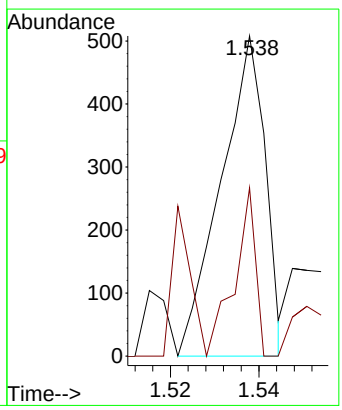


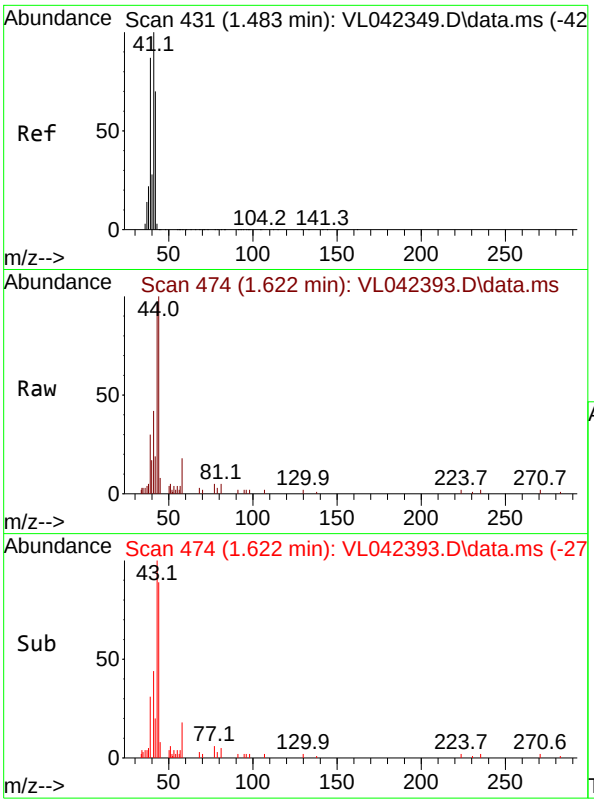


#4
Chloromethane
Concen: 0.041 ppbv
RT: 1.538 min Scan# 448
Delta R.T. 0.007 min
Lab File: VL042393.D
Acq: 18 Apr 2025 15:47

Tgt Ion: 50 Resp: 353

Ion	Ratio	Lower	Upper
50	100		
52	52.6	24.7	37.1#



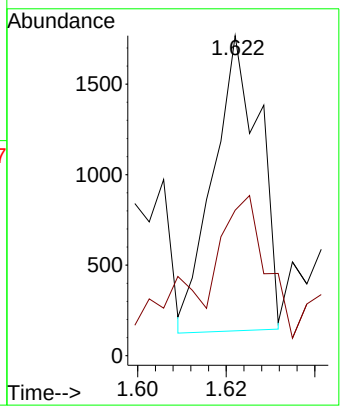


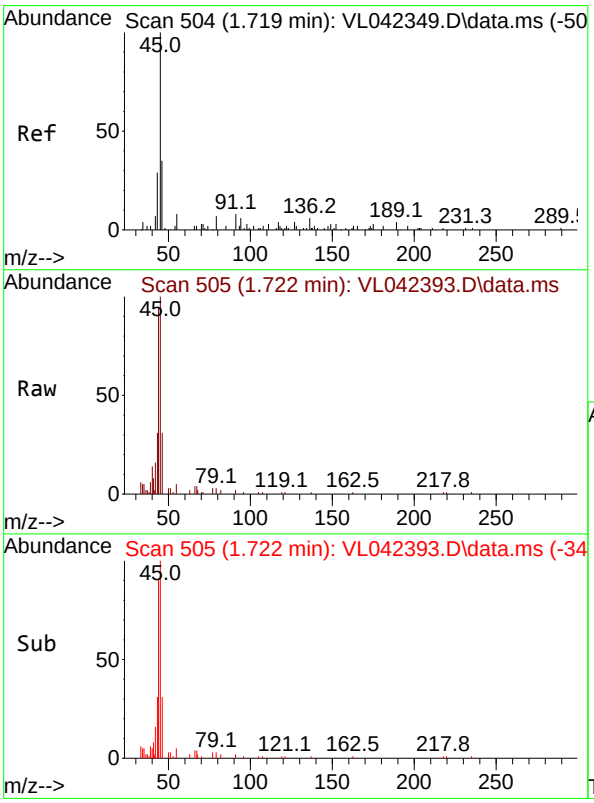
#9
Propene
Concen: 0.124 ppbv
RT: 1.622 min Scan# 4
Delta R.T. 0.139 min
Lab File: VL042393.D
Acq: 18 Apr 2025 15:47

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025DL2DUP

Tgt Ion: 41 Resp: 1182

Ion	Ratio	Lower	Upper
41	100		
42	71.3	56.2	84.4

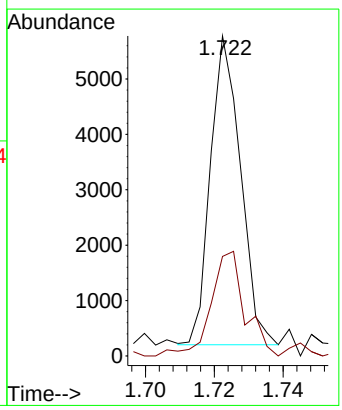


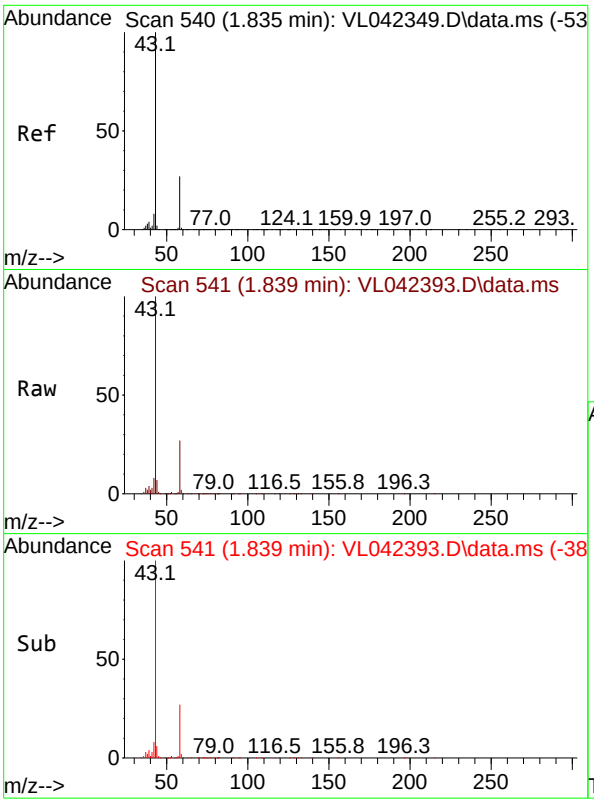


#13
Ethanol
Concen: 2.243 ppbv
RT: 1.722 min Scan# 505
Delta R.T. 0.003 min
Lab File: VL042393.D
Acq: 18 Apr 2025 15:47

Tgt Ion: 45 Resp: 3385

Ion	Ratio	Lower	Upper
45	100		
46	0.0	21.9	87.7#



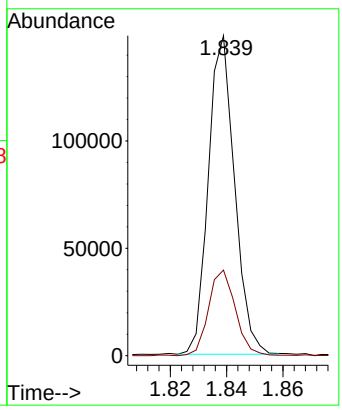


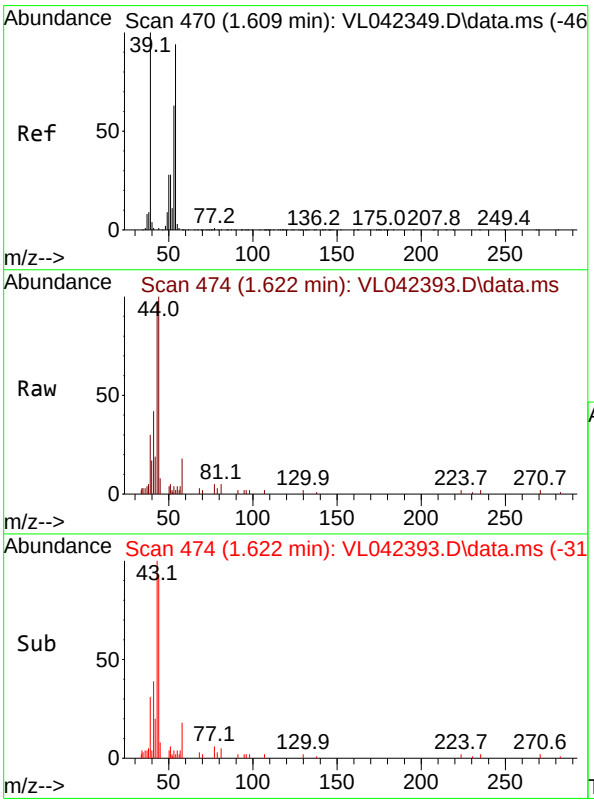
#15
Acetone
Concen: 4.740 ppbv
RT: 1.839 min Scan# 54
Delta R.T. 0.004 min
Lab File: VL042393.D
Acq: 18 Apr 2025 15:47

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025DL2DUP

Tgt Ion: 43 Resp: 96169

Ion	Ratio	Lower	Upper
43	100		
58	27.9	22.4	33.6

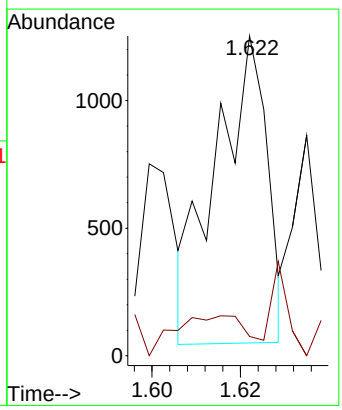


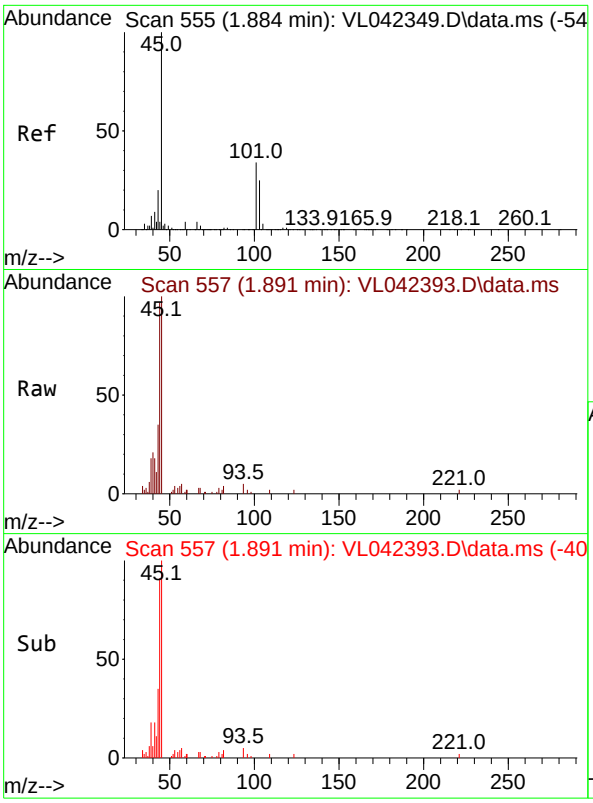


#16
1,3-Butadiene
Concen: 0.100 ppbv
RT: 1.622 min Scan# 474
Delta R.T. 0.013 min
Lab File: VL042393.D
Acq: 18 Apr 2025 15:47

Tgt Ion: 39 Resp: 969

Ion	Ratio	Lower	Upper
39	100		
54	0.0	64.9	97.3#



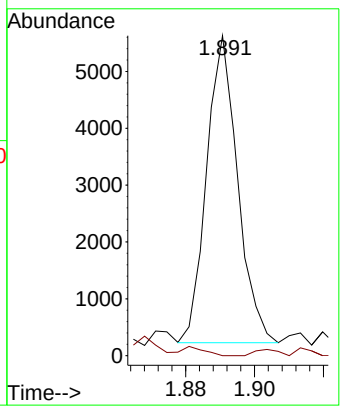


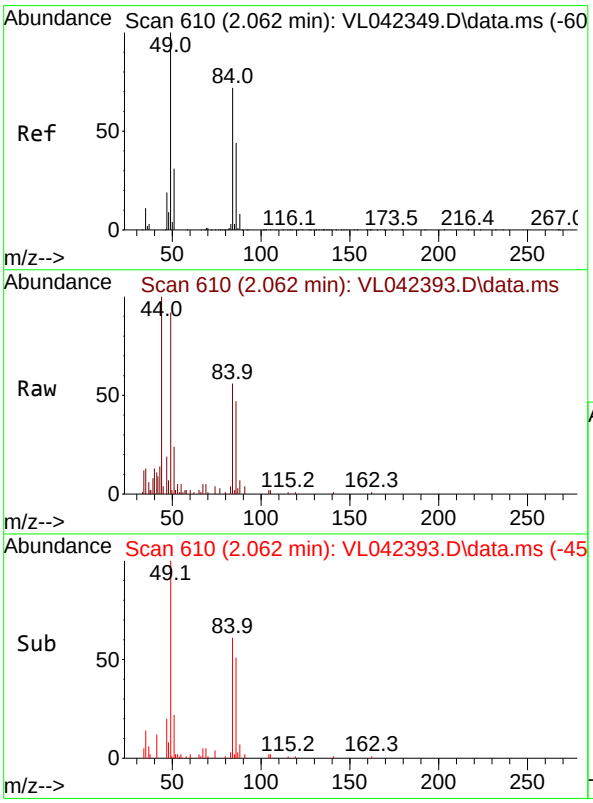
#19
Isopropyl Alcohol
Concen: 0.301 ppbv
RT: 1.891 min Scan# 5
Delta R.T. 0.007 min
Lab File: VL042393.D
Acq: 18 Apr 2025 15:47

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025DL2DUP

Tgt Ion: 45 Resp: 3389

Ion	Ratio	Lower	Upper
45	100		
58	791.4	34.5	51.7#

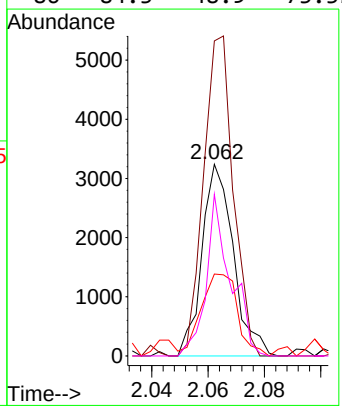


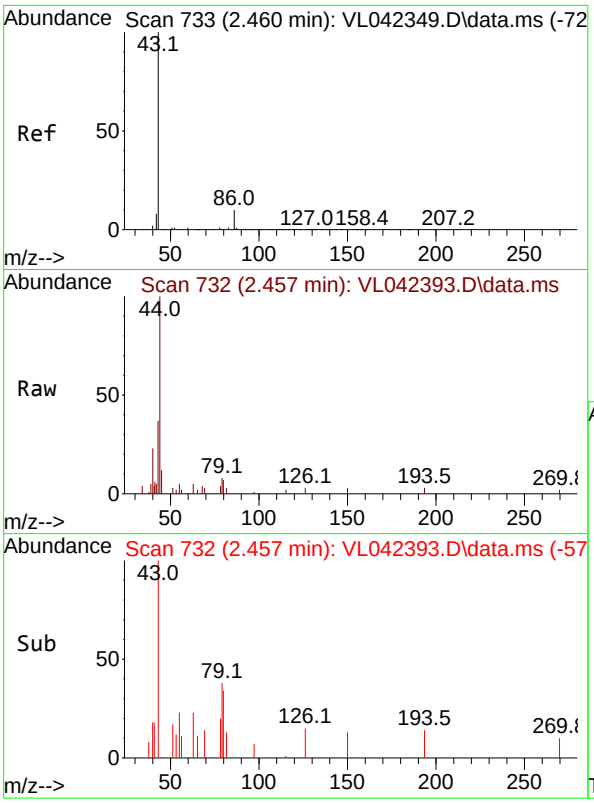


#20
Methylene Chloride
Concen: 0.316 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.000 min
Lab File: VL042393.D
Acq: 18 Apr 2025 15:47

Tgt Ion: 84 Resp: 2513

Ion	Ratio	Lower	Upper
84	100		
49	168.3	111.6	167.4#
51	43.7	35.1	52.7
86	84.3	48.9	73.3#



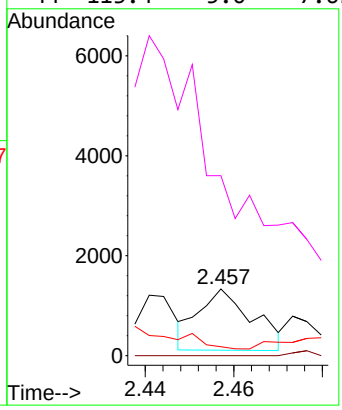


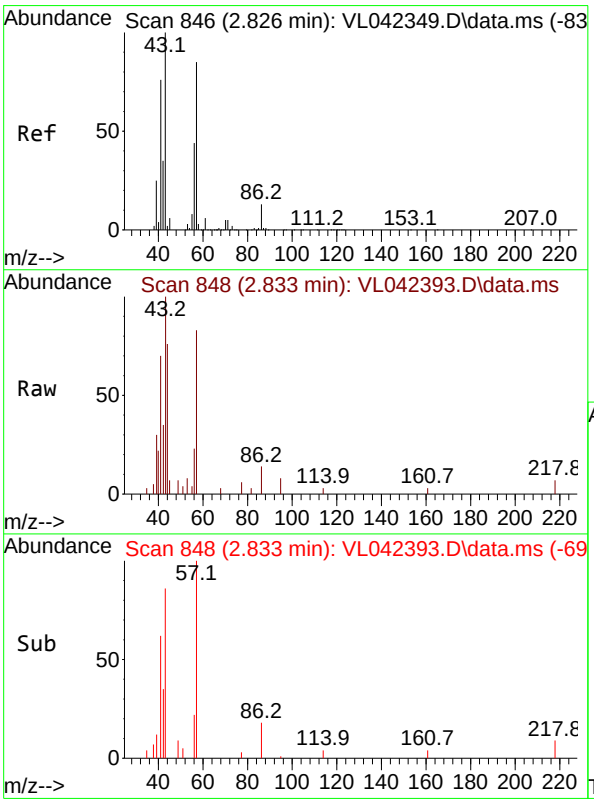
#23
Vinyl Acetate
Concen: 0.126 ppbv
RT: 2.457 min Scan# 7
Delta R.T. -0.003 min
Lab File: VL042393.D
Acq: 18 Apr 2025 15:47

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025DL2DUP

Tgt Ion: 43 Resp: 1031

Ion	Ratio	Lower	Upper
43	100		
86	0.0	6.5	9.7#
42	0.0	7.8	11.8#
44	113.4	5.0	7.6#

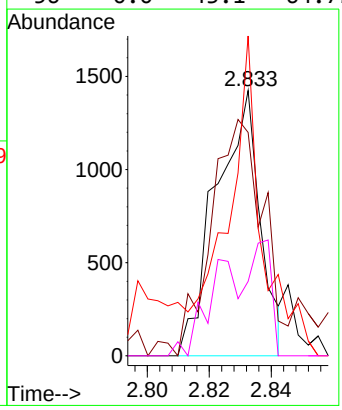


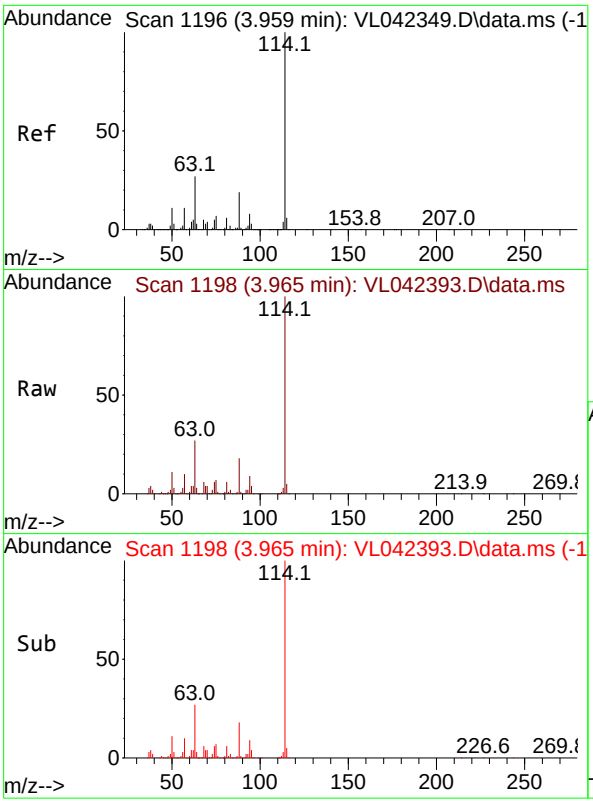


#26
Hexane
Concen: 0.069 ppbv
RT: 2.833 min Scan# 848
Delta R.T. 0.007 min
Lab File: VL042393.D
Acq: 18 Apr 2025 15:47

Tgt Ion: 57 Resp: 1405

Ion	Ratio	Lower	Upper
57	100		
41	136.4	77.9	116.9#
43	99.9	208.4	312.6#
56	0.0	43.1	64.7#



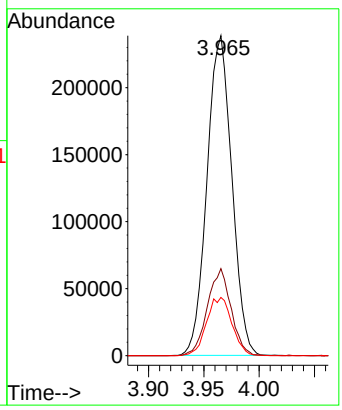


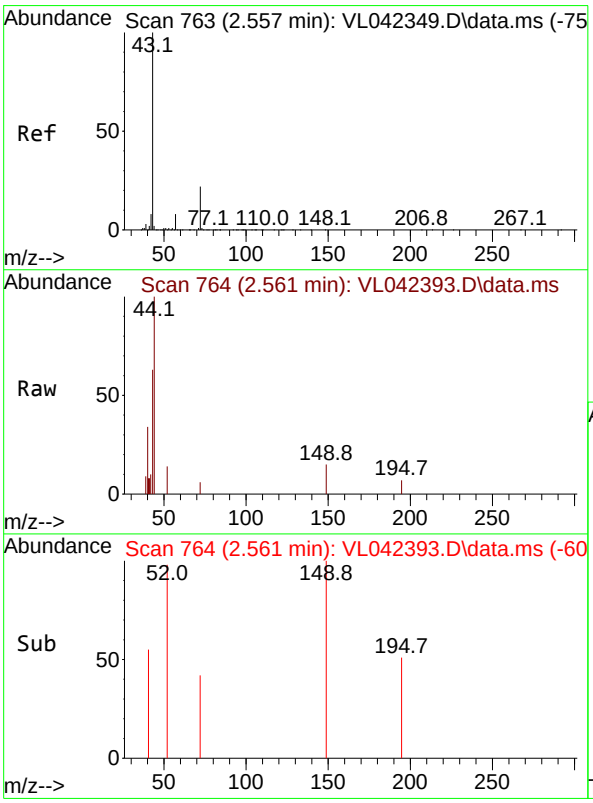
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.965 min Scan# 1
Delta R.T. 0.007 min
Lab File: VL042393.D
Acq: 18 Apr 2025 15:47

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025DL2DUP

Tgt Ion:114 Resp: 373006

Ion	Ratio	Lower	Upper
114	100		
63	26.0	21.8	32.6
88	18.7	15.5	23.3

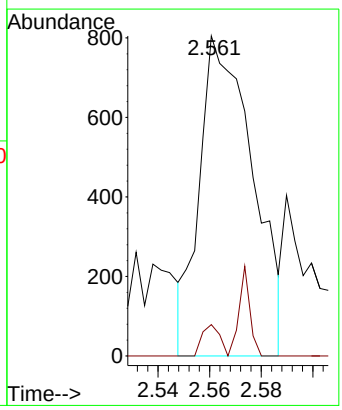


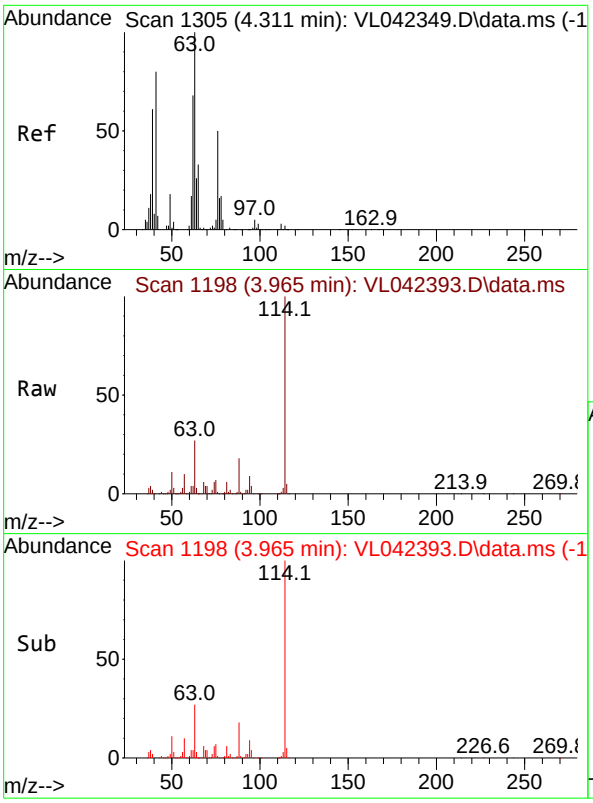


#34
2-Butanone
Concen: 0.039 ppbv
RT: 2.561 min Scan# 764
Delta R.T. 0.003 min
Lab File: VL042393.D
Acq: 18 Apr 2025 15:47

Tgt Ion: 43 Resp: 1152

Ion	Ratio	Lower	Upper
43	100		
72	9.0	18.2	27.2#



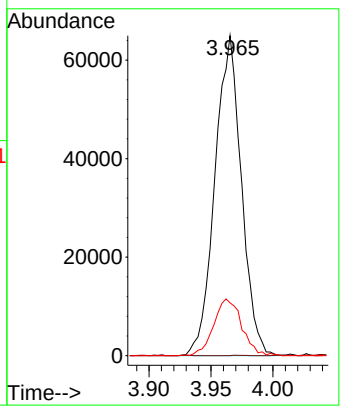


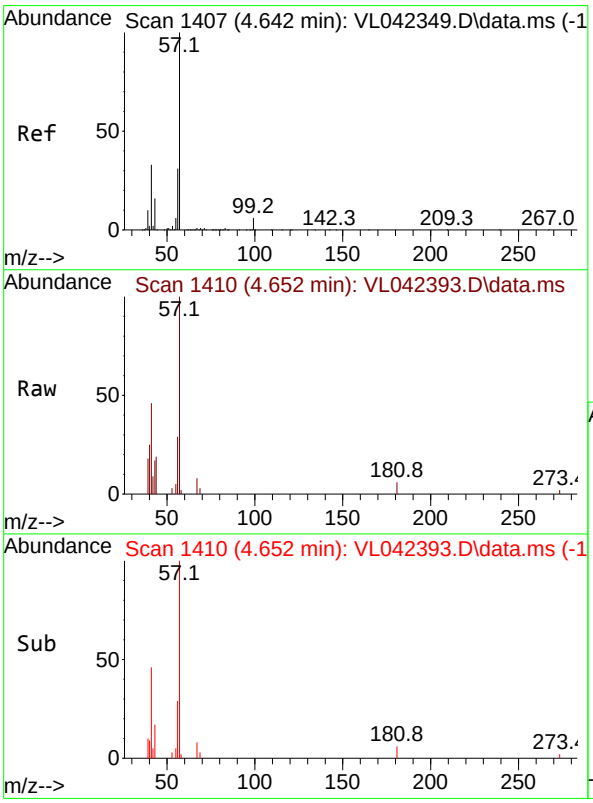
#39
1,2-Dichloropropane
Concen: 6.456 ppbv
RT: 3.965 min Scan# 11
Delta R.T. -0.346 min
Lab File: VL042393.D
Acq: 18 Apr 2025 15:47

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025DL2DUP

Tgt Ion: 63 Resp: 96794

Ion	Ratio	Lower	Upper
63	100		
41	0.0	64.2	96.2#
62	16.5	54.3	81.5#

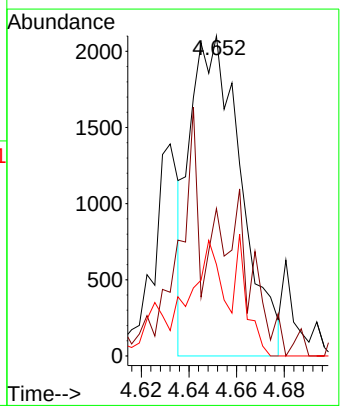


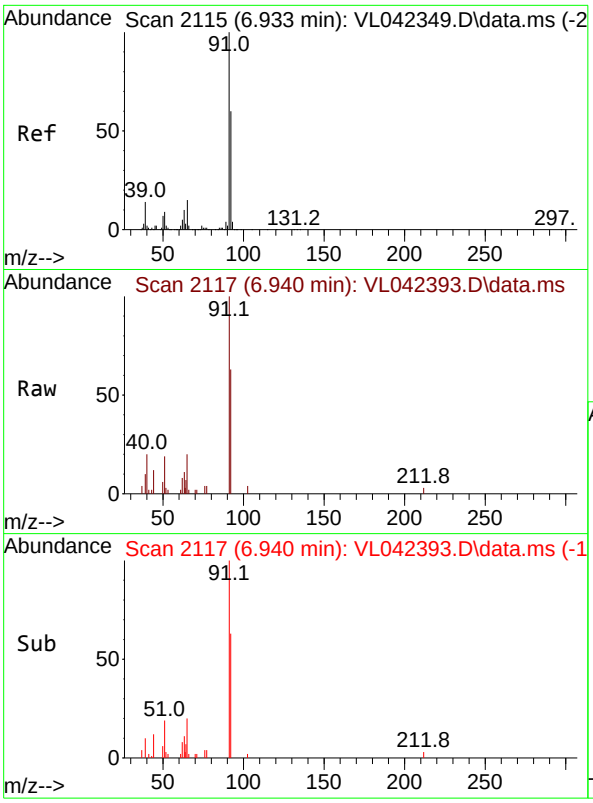


#44
2,2,4-Trimethylpentane
Concen: 0.045 ppbv
RT: 4.652 min Scan# 1410
Delta R.T. 0.010 min
Lab File: VL042393.D
Acq: 18 Apr 2025 15:47

Tgt Ion: 57 Resp: 3098

Ion	Ratio	Lower	Upper
57	100		
41	76.8	27.2	40.8#
56	0.0	25.7	38.5#



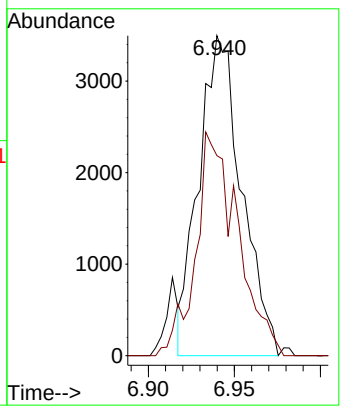


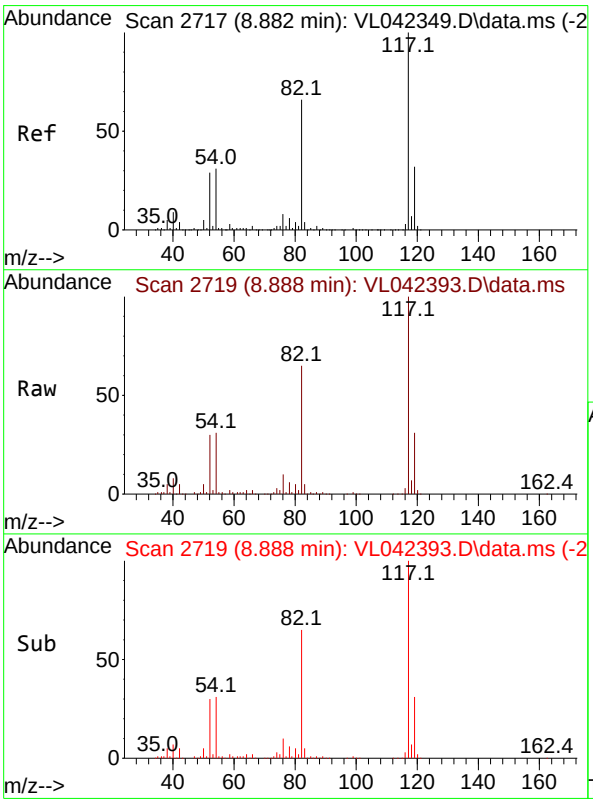
#53
Toluene
Concen: 0.126 ppbv
RT: 6.940 min Scan# 21
Delta R.T. 0.007 min
Lab File: VL042393.D
Acq: 18 Apr 2025 15:47

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025DL2DUP

Tgt Ion: 91 Resp: 6073

Ion	Ratio	Lower	Upper
91	100		
92	67.8	48.2	72.4

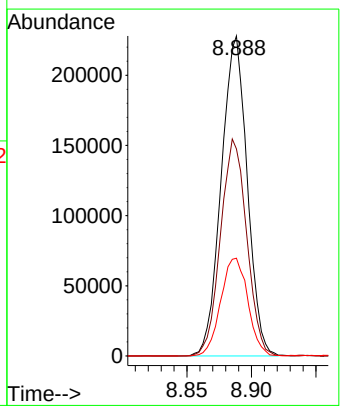


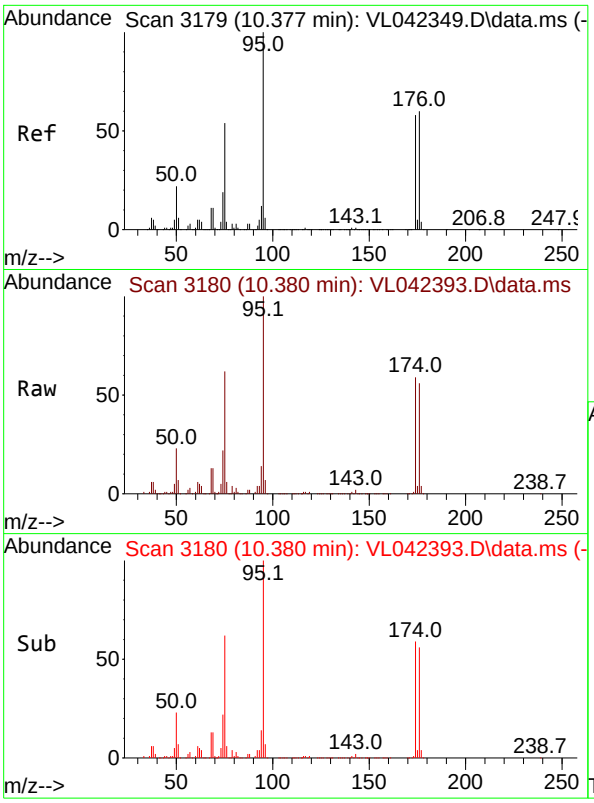


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.888 min Scan# 2719
Delta R.T. 0.007 min
Lab File: VL042393.D
Acq: 18 Apr 2025 15:47

Tgt Ion:117 Resp: 318921

Ion	Ratio	Lower	Upper
117	100		
82	68.4	57.8	86.6
119	32.1	25.2	37.8



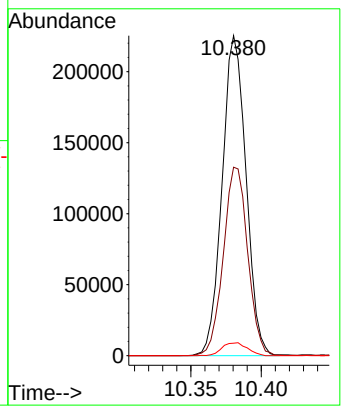


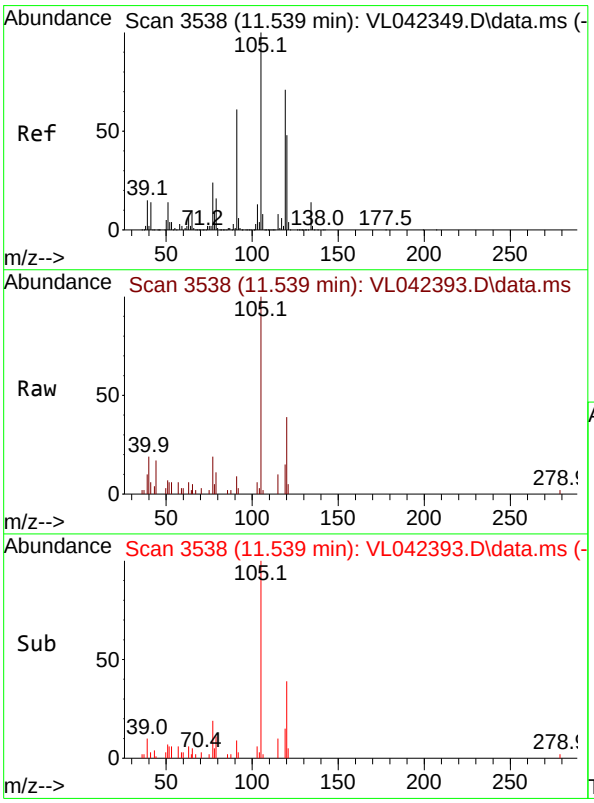
#68
1-Bromo-4-Fluorobenzene
Concen: 10.164 ppbv
RT: 10.380 min Scan# 3
Delta R.T. 0.004 min
Lab File: VL042393.D
Acq: 18 Apr 2025 15:47

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025DL2DUP

Tgt Ion: 95 Resp: 266367

Ion	Ratio	Lower	Upper
95	100		
174	60.1	48.5	72.7
175	4.3	3.7	5.5





#74
1,2,4-Trimethylbenzene
Concen: 0.047 ppbv
RT: 11.539 min Scan# 3538
Delta R.T. 0.000 min
Lab File: VL042393.D
Acq: 18 Apr 2025 15:47

Tgt Ion:105 Resp: 3019

Ion	Ratio	Lower	Upper
105	100		
120	44.0	38.1	57.1
91	8.5	48.8	73.2#
77	19.0	19.0	28.4

