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

DATA PACKAGE

VOLATILE ORGANICS

PROJECT NAME : R36900

TETRA TECH, EMI

240 Continental Drive, Suite 200

Newark, DE - 19713

Phone No: 302-738-7551

ORDER ID : Q1927

ATTENTION : Ava Heiss

Laboratory Certification ID # 20012

Table Of Contents for Q1927

1) VOLATILES DATA 2

2) Signature Page 4

3) Shipping Document 5

3.1) Chain Of Custody 6

3.2) Lab Certificate 14

3.3) Internal COC 15

3.4) Air sample Pressure And Dilution Log Book 16

3.5) Storage Location 17

4) Case Narrative 19

5) Qualifier Page 29

6) QA Checklist 30

7) Chronicle 31

8) Hit Summary 32

9) Air Conversion Table 35

9.1) MDL 49

10) QC Data Summary For TO-15 57

10.1) Deuterated Monitoring Compound Summary 58

10.2) LCS/LCSD Summary 59

10.3) Duplicate Sample Summary 61

10.4) Method Blank Summary 63

10.5) GS/MS Tune Summary 64

10.6) Internal Standard Area and RT Summary 66

11) Sample Data 67

11.1) EBR-P06-SC-IA01-20250428 68

11.2) EBR-P03-SC-IA01-20250428 84

11.3) EBR-P04-SC-SS01-20250428 100

11.4) EBR-P03-SC-SS01-20250428 115

11.5) EBR-P03-SC-SS01-20250428DL 132

11.6) EBR-P07-SC-IA01-20250428 142

11.7) EBR-P04-SC-IA01-20250428 157

12) Calibration Data Summary 171

12.1) Initial Calibration Data 3

12.2) 12.1.1) VL050125 172

12.3) Continued Calibration Data 455

12.3.1) VL042469.D 455

13) QC Sample Data 503
13.1) Tune Raw Data 504
13.2) Method Blank Data 506
13.3) LCS Data 513
14) Manual Integration 560
15) Analytical Runlogs 571
16) Standard Prep Logs 576
17) Canister Data 588
18) Not Reviewed Data 637

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

Cover Page

Order ID : Q1927

Project ID : R36900

Client : Tetra Tech, EMI

Lab Sample Number	Client Sample Number
Q1927-01	EBR-P06-SC-IA01-20250428
Q1927-02	EBR-P03-SC-IA01-20250428
Q1927-03	EBR-P04-SC-SS01-20250428
Q1927-04	EBR-P03-SC-SS01-20250428
Q1927-05	EBR-P07-SC-IA01-20250428
Q1927-06	EBR-P04-SC-IA01-20250428

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 : _____

Date: 5/8/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

SHIPPING DOCUMENTS

Admin building Basement

Alliance TECHNICAL GROUP

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

Alliance Project No. : Q1927

Client Contact Information	Bottle Order ID : **B2504018**	Courier :	____ of ____ COCs
Client ID : **TETR16**	Project ID : ~~R36724~~ SB R36900	Sampler Name(s) : S. Belding	Analysis / Matrix
Customer Name : **Tetra Tech, EMI**	Project Manager : **AVA HEISS**	AIR ANALYSIS CHAIN-OF-CUSTODY	
Address : **240 Continental Drive, Suite 200**	Phone Number : **302-738-7551**		
	Fax Number : **302-454-5980**	Individual Certified	
	Site Details: See comments for sample ID		
City : **Newark**			
State : **DE**	Analysis Turnaround Time		
Zip Code : **19713**	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		
Sr Comm	4/28/25 4/29/25	1433	1430	-30	-10			-30	-7.8	10478	10197	6 L	4.16	VL042309.D	X				X			

Temperature (Fahrenheit)	Ambient	Maximum	Minimum	
Start				
Stop				

GC/MS Analyst Signature (TO-15)

Pressure (Inches of Hg)	Ambient	Maximum	Minimum	
Start				
Stop				

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

Please follow the instructions on the back of this COC.

Special Instructions/QC Requirements & Comments : EB2-P06-5L-IA01-20250429

Suspected Contamination: High Medium Low PID Readings:

Sampling site (State):

Quick Connector required : NO

Canisters Shiped by: Sam	Date/Time: 04/25/25	Canisters Received by: CP	Date/Time: 4/30/25 1255	B2504018 - 3
Samples Relinquished by: S. Belding	Date/Time: 4/29/25	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

Wilm Lions club Bakeron

Alliance Project No. : Q1927

Client Contact Information	Bottle Order ID : **B2504018**	Courier :	____ of ____ COCs
Client ID : **TETR16** Project ID : ~~R36724~~ SS R36900		Sampler Name(s) : S. Belding	Analysis / Matrix
Customer Name : **Tetra Tech, EMI**	Project Manager : **AVA HEISS**	AIR ANALYSIS CHAIN-OF-CUSTODY	
Address : **240 Continental Drive, Suite 200**	Phone Number : **302-738-7551**		
	Fax Number : **302-454-5980**		
	Site Details: See comments for Sample ID	Batch Certified	
City : **Newark**			
State : **DE**	Analysis Turnaround Time		
Zip Code : **19713**	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		
See note	~~7/28/25~~ 4/29/25	1007	1039	-30	-12			-30	-5.5	10520	10267	6 L	4.16	VL042308.D	X				X			

Temperature (Fahrenheit)	Ambient	Maximum	Minimum	
Start				
Stop				

GC/MS Analyst Signature (TO-15)

Pressure (Inches of Hg)	Ambient	Maximum	Minimum	
Start				
Stop				

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

Please follow the instructions on the back of this COC.

Special Instructions/QC Requirements & Comments : EBR-P3-SC-IA01-20250428

Suspected Contamination: High Medium Low PID Readings:

Sampling site (State):

Quick Connector required : NO

Canisters Shiped by: Sam	Date/Time: 04/15/25	Canisters Received by: CR	Date/Time: 4/30/25 1255	**B2504018 - 4**	
Samples Relinquished by: Sam Belding	Date/Time: 4/29/25	Received by:	Date/Time:		
Relinquished by:	Date/Time:	Received by:	Date/Time:		

Library basement

Alliance TECHNICAL GROUP

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

Alliance Project No. : Q1927

Client Contact Information	Bottle Order ID : **B2504018**	Courier :	____ of ____ COCs
Client ID : **TETR16** Project ID : ~~R36724~~ SS R36903		Sampler Name(s) : Sam Belding	Analysis / Matrix
Customer Name : **Tetra Tech, EMI**	Project Manager : **AVA HEISS**	AIR ANALYSIS CHAIN-OF-CUSTODY	
Address : **240 Continental Drive, Suite 200**	Phone Number : **302-738-7551**		
	Fax Number : **302-454-5980**		
	Site Details: See comments for Sample ID	Batch Certified	
City : **Newark**			
State : **DE**	Analysis Turnaround Time		
Zip Code : **19713**	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		
Jellicourt	4/28/25 4/29/25	1310	1227	29	-7			-30	-6.7	10240	10283	6 L	4.16	VL042308.D	X					X	

Temperature (Fahrenheit)	Ambient	Maximum	Minimum	
Start				
Stop				

GC/MS Analyst Signature (TO-15)

Pressure (Inches of Hg)	Ambient	Maximum	Minimum	
Start				
Stop				

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

Please follow the instructions on the back of this COC.

Special Instructions/QC Requirements & Comments : EBL-P04-SC-5501-20250428

Suspected Contamination: High Medium Low PID Readings:

Sampling site (State):

Quick Connector required : No

Canisters Shiped by: Sam	Date/Time: 04/15/25	Canisters Received by: CP	Date/Time: 4/30/25 1250		
Samples Relinquished by: Sam Belding	Date/Time: 4/29/25	Received by:	Date/Time:	**B2504018 - 7**	
Relinquished by:	Date/Time:	Received by:	Date/Time:		

Lions club banquet room

Alliance TECHNICAL GROUP

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

Alliance Project No. : Q1927

Client Contact Information	Bottle Order ID : **B2504018**	Courier :	____ of ____ COCs
Client ID : **TETR16** Project ID : ~~R36724~~ R5690		Sampler Name(s) : S. Belding	Analysis / Matrix
Customer Name : **Tetra Tech, EMI**	Project Manager : **AVA HEISS**	AIR ANALYSIS CHAIN-OF-CUSTODY	
Address : **240 Continental Drive, Suite 200**	Phone Number : **302-738-7551**		
	Fax Number : **302-454-5980**		
	Site Details: See comments for Sample ID	Batch Certified	
City : **Newark**			
State : **DE**	Analysis Turnaround Time		
Zip Code : **19713**	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		
See COC	4/28/25 4/29/25	900	1030	-30	-7			-30	-5.9	10626 ~~10478~~	10320	6 L	4.16	VL042308.D	X					X		

Temperature (Fahrenheit)	Ambient	Maximum	Minimum	
Start				
Stop				

GC/MS Analyst Signature (TO-15)

Pressure (Inches of Hg)	Ambient	Maximum	Minimum	
Start				
Stop				

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

Please follow the instructions on the back of this COC.

Special Instructions/QC Requirements & Comments : EBR-B03-SC-5501-20250428

Suspected Contamination: High Medium Low PID Readings:

Sampling site (State):

Quick Connector required : NO

Canisters Shiped by: Sam	Date/Time: 04/15/25	Canisters Received by: CR	Date/Time: 4/30/25 1250	**B2504018 - 10**
Samples Relinquished by: Sam Belding	Date/Time: 4/29/25	Received by:	Date/Time:	
Relinquished by:	Date/Time:	Received by:	Date/Time:	

Student Center Closet

Alliance TECHNICAL GROUP

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

Alliance Project No. : Q1927

Client Contact Information	Bottle Order ID : **B2504018**	Courier :	____ of ____ COCs
Client ID : **TETR16** Project ID : ~~R36724~~ SR R36900		Sampler Name(s) :	Analysis / Matrix
Customer Name : **Tetra Tech, EMI**	Project Manager : **AVA HEISS**	AIR ANALYSIS CHAIN-OF-CUSTODY	
Address : **240 Continental Drive, Suite 200**	Phone Number : **302-738-7551**		
	Fax Number : **302-454-5980**	Individual Certified	
	Site Details: See comments for Sample ID		
City : **Newark**			
State : **DE**	Analysis Turnaround Time		
Zip Code : **19713**	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
See Lower	4/28/25 4/29/25	1345	1240	-28	-5			-30	-7.5	10515	10445	6 L	4.16	VL042308.D	X	X	

Temperature (Fahrenheit)	Ambient	Maximum	Minimum	
Start				
Stop				

GC/MS Analyst Signature (TO-15)

Pressure (Inches of Hg)	Ambient	Maximum	Minimum	
Start				
Stop				

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

Please follow the instructions on the back of this COC.

Special Instructions/QC Requirements & Comments : FSE- P07-SC-I401-20250428

Suspected Contamination: High Medium Low PID Readings:

Sampling site (State):

Quick Connector required : NO

Canisters Shiped by: Sam	Date/Time: 04/28/25	Canisters Received by:	Date/Time:	
Samples Relinquished by: Sin Belony	Date/Time: 4/29/25	Received by: CR	Date/Time: 4/30/25 1255	B2504018 - 12
Relinquished by:	Date/Time:	Received by:	Date/Time:	

Library Basement

Alliance TECHNICAL GROUP

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

Alliance Project No. : Q1927

Client Contact Information	Bottle Order ID : **B2504018**	Courier :	____ of ____ COCs
Client ID : **TETR16** Project ID : ~~B36724~~ SB R36900		Sampler Name(s) : S. Belding	Analysis / Matrix
Customer Name : **Tetra Tech, EMI**	Project Manager : **AVA HEISS**	AIR ANALYSIS CHAIN-OF-CUSTODY	
Address : **240 Continental Drive, Suite 200**	Phone Number : **302-738-7551**		
	Fax Number : **302-454-5980**		
	Site Details: See comments for sample ID	Individual Certified	
City : **Newark**			
State : **DE**	Analysis Turnaround Time		
Zip Code : **19713**	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		
See comments	4/28/25 4/29/25	1318	1045	-30	-3			-30	-2.2	10482	10607	6 L	4.16	VL042310.D	X				X		

Temperature (Fahrenheit)				
	Ambient	Maximum	Minimum	
Start				
Stop				

GC/MS Analyst Signature (TO-15)

Pressure (Inches of Hg)				
	Ambient	Maximum	Minimum	
Start				
Stop				

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

Please follow the instructions on the back of this COC.

Special Instructions/QC Requirements & Comments : EBR-P04-SC-IA01-20250428

Suspected Contamination: High Medium Low PID Readings:

Sampling site (State):

Quick Connector required : NO

Canisters Shiped by: Sam	Date/Time: 04/[illegible]/25	Canisters Received by: CB	Date/Time: 4/30/25 1255		
Samples Relinquished by: Sam Belding	Date/Time: 4/29/25	Received by:	Date/Time:	**B2504018 - 15**	
Relinquished by:	Date/Time:	Received by:	Date/Time:		

USEPA CLP COC (Lab Copy)
DateShipped: 4/29/2025
CarrierName: Hand Delivered
DAS #: R36900

CHAIN OF CUSTODY RECORD
Site #: A36K
Contact Name: Sam Belding
Contact Phone: 215-789-8418

No: 3-042925-151434-0002
Cooler #:
Lab: Alliance Technical Group
Lab Phone: 908-728-3147

Lab #	Sample #	Location	Analyses	TAT	TAT Units	Matrix	Numb Cont	Container	Pump #	OrificeID	Start Pressure	Stop Pressure	Start_Date	Start_Time	Stop_Date	Stop_Time
	EBR-P03-SC-IA01-20250428	Property 3	Toxic Organics (TO-15)	21	Days	Indoor Air	1	6-L Summa Cannisters	10267	10520	-30	-12	4/28/2025	10:07:00 AM	4/29/2025	10:30:00 AM
	EBR-P03-SC-SS01-20250428	Property 3	Toxic Organics (TO-15)	21	Days	Sub Slab	1	6-L Summa Cannisters	10320	10626	-30	-7	4/28/2025	10:00:00 AM	4/29/2025	10:30:00 AM
	EBR-P04-SC-IA01-20250428	Property 4	Toxic Organics (TO-15)	21	Days	Indoor Air	1	6-L Summa Cannisters	10607	10482	-30	-3	4/28/2025	1:18:00 PM	4/29/2025	10:45:00 AM
	EBR-P04-SC-SS01-20250428	Property 4	Toxic Organics (TO-15)	21	Days	Sub Slab	1	6-L Summa Cannisters	10283	10240	-29	-7	4/28/2025	1:10:00 PM	4/29/2025	12:27:00 PM

Special Instructions:

SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
Sample Drop off	START	4/30/25 12:50		1255 4/29/25	

USEPA CLP COC (Lab Copy)
DateShipped: 4/29/2025
CarrierName: Hand Delivered
DAS #: R36900

CHAIN OF CUSTODY RECORD
Site #: A36K
Contact Name: Sam Belding
Contact Phone: 215-789-8418

No: 3-042925-151434-0002
Cooler #:
Lab: Alliance Technical Group
Lab Phone: 908-728-3147

Lab #	Sample #	Location	Analyses	TAT	TAT Units	Matrix	Numb Cont	Container	Pump #	Orificel D	Start Pressure	Stop Pressure	Start_ Date	Start_Time	Stop_Date	Stop_Time
	EBR-P06-SC-IA01-20250428	Property 6	Toxic Organics (TO-15)	21	Days	Indoor Air	1	6-L Summa Canisters	10197	10478	-30	-10	4/28/2025	2:33:00 PM	4/29/2025	2:20:00 PM
	EBR-P07-SC-IA01-20250428	Property 7	Toxic Organics (TO-15)	21	Days	Indoor Air	1	6-L Summa Canisters	10445	10515	-28	-5	4/28/2025	1:45:00 PM	4/29/2025	12:40:00 PM

Special Instructions:

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
Sample drop off	START	4/30/25 12:50		12:55 4/30/25	

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
~~NA66~~:	Title: Sample Custodian
Field Sample Seal No.: Q1927	Date Broken: 4/29/2025 Military Time Seal Broken: 12:55:00
Case No.: R36900	Analytical Parameter/Fraction: TO-15

Sample No.	Aliquot/Extract No.	Sample No.	Aliquot/Extract No.
Q1927-01	EBR-P06-SC-IA01-202504		
Q1927-02	EBR-P03-SC-IA01-202504		
Q1927-03	EBR-P04-SC-SS01-20250[illegible]		
Q1927-04	EBR-P03-SC-SS01-20250[illegible]		
Q1927-05	EBR-P07-SC-IA01-202504		
Q1927-06	EBR-P04-SC-IA01-202504		

Date	Time	Relinquished By	Received By	Purpose of Change of Custody
4/30/25	14:30	Signature [signature]	Signature [signature]	AIR LAB
		Printed Name [illegible]	Printed Name J CHILONE	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	

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

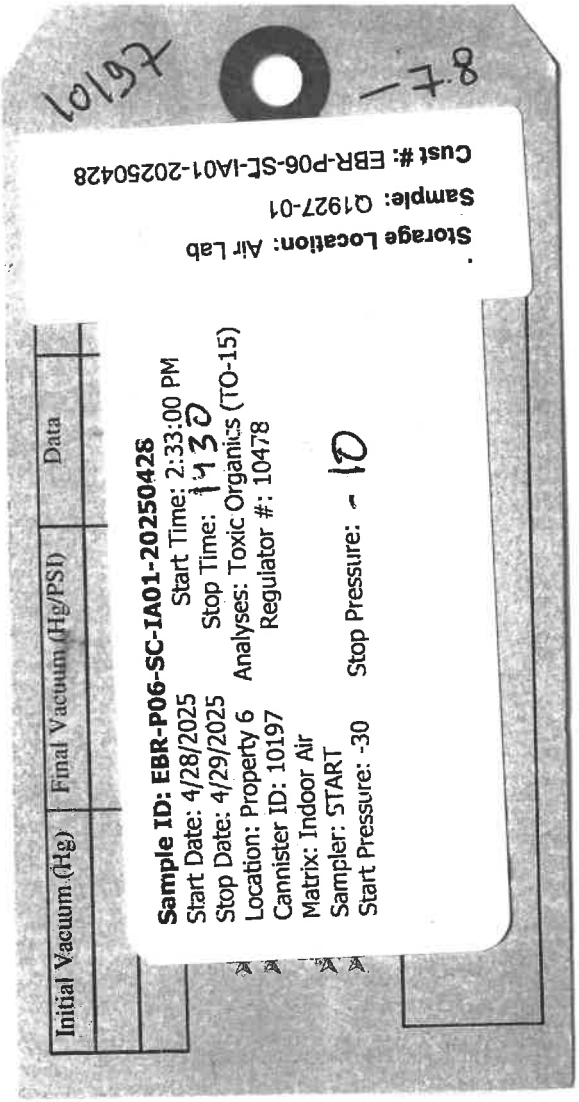
AIR SAMPLE PRESSURE & DILUTION LOGBOOK

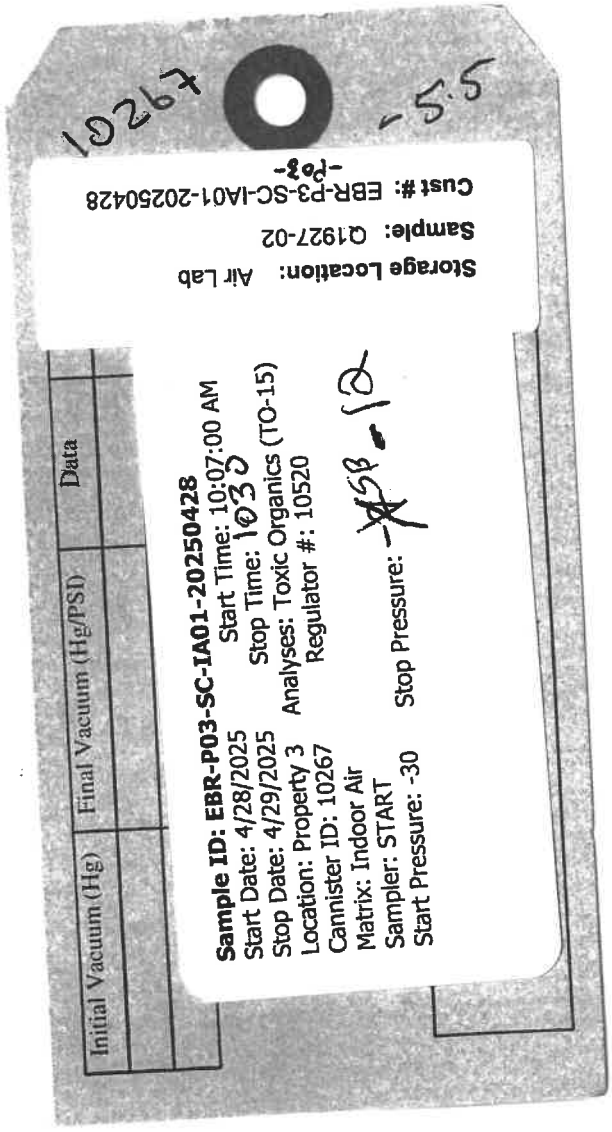
Analyst Signature: _____ Supervisor Signature: _____

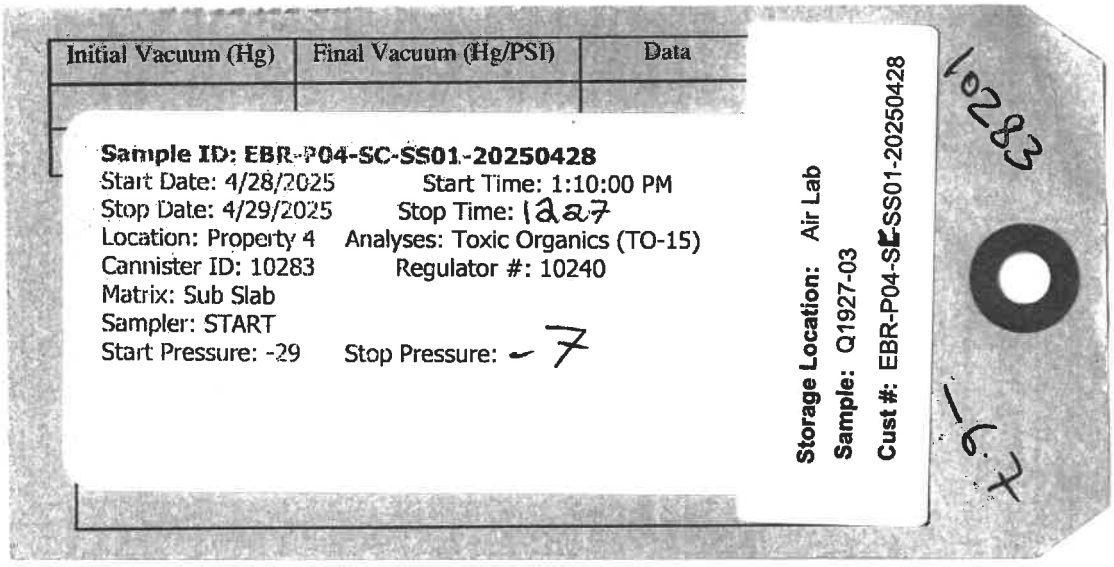
METHOD: TO-15 Pressure Gauge ID: A7559711

Date	Sample Number	Canister #	Initial Pressure psia	Initial Pressure Hg	Final Pressure psia	Final Pressure Hg	Dilution Factor	Comment
04/30/15	Q1927-01	10197	10.9	-7.8				SY
↓	Q1927-02	10267	12.0	-5.5				SY
	Q1927-03	10283	11.4	-6.7				↓
	Q1927-04	10320	11.8	-5.9				
	Q1927-05	10445	11.0	-7.5				
↓	Q1927-06	10607	13.6	-2.2				

Initial Vacuum (Hg)
Final Vacuum (Hg/PSI)
Data
By:
10320
-5.9
Sample ID: EBR-P03-SC-SS01-20250428
Start Date: 4/28/2025
Stop Date: 4/29/2025
Location: Property 3
Canister ID: 10320
Matrix: Sub Slab
Sampler: START
Start Pressure: -30
Start Time: 10:00:00 AM
Stop Time: 1020
Analyses: Toxic Organics (TO-15)
Regulator #: 10626
Stop Pressure: -10
Storage Location: Air Lab
Sample: Q1927-04
Cust #: EBR-P03-SC-SS01-20250428
Initial Vacuum (Hg)
Final Vacuum (Hg/PSI)
Data
By:
10445
-7.5
Sample ID: EBR-P07-SC-IA01-20250428
Start Date: 4/28/2025
Stop Date: 4/29/2025
Location: Property 7
Canister ID: 10445
Matrix: Indoor Air
Sampler: START
Start Pressure: -28
Start Time: 1:45:00 PM
Stop Time: 1240
Analyses: Toxic Organics (TO-15)
Regulator #: 10515
Stop Pressure: -5
Storage Location: Air Lab
Sample: Q1927-05
Cust #: EBR-P07-SC-IA01-20250428
Initial Vacuum (Hg)
Final Vacuum (Hg/PSI)
10607
-2.2
ABEL HERE
Sample ID: EBR-P04-SC-IA01-20250428
Start Date: 4/28/2025
Stop Date: 4/29/2025
Location: Property 4
Canister ID: 10607
Matrix: Indoor Air
Sampler: START
Start Pressure: -30
Start Time: 1:18:00 PM
Stop Time: 1045
Analyses: Toxic Organics (TO-15)
Regulator #: 10482
Stop Pressure: -3
Storage Location: Air Lab
Sample: Q1927-06
Cust #: EBR-P04-SC-IA01-20250428


10197
-78
Cust #: EBR-P06-SC-IA01-20250428
Sample: Q1927-01
Storage Location: Air Lab
Sample ID: EBR-P06-SC-IA01-20250428
Start Date: 4/28/2025
Stop Date: 4/29/2025
Location: Property 6
Cannister ID: 10197
Matrix: Indoor Air
Sampler: START
Start Pressure: -30
Start Time: 2:33:00 PM
Stop Time: 1430
Analyses: Toxic Organics (TO-15)
Regulator #: 10478
Stop Pressure: -10
Initial Vacuum (Hg)
Final Vacuum (Hg/PSI)
Data


10267
-55
-P03-
Cust #: EBR-P03-SC-IA01-20250428
Sample: Q1927-02
Storage Location: Air Lab
Sample ID: EBR-P03-SC-IA01-20250428
Start Date: 4/28/2025
Stop Date: 4/29/2025
Location: Property 3
Cannister ID: 10267
Matrix: Indoor Air
Sampler: START
Start Pressure: -30
Start Time: 10:07:00 AM
Stop Time: 1035
Analyses: Toxic Organics (TO-15)
Regulator #: 10520
Stop Pressure: -68
Initial Vacuum (Hg)
Final Vacuum (Hg/PSI)
Data


10283
-27
Storage Location: Air Lab
Sample: Q1927-03
Cust #: EBR-P04-SC-SS01-20250428
Sample ID: EBR-P04-SC-SS01-20250428
Start Date: 4/28/2025
Stop Date: 4/29/2025
Location: Property 4
Cannister ID: 10283
Matrix: Sub Slab
Sampler: START
Start Pressure: -29
Start Time: 1:10:00 PM
Stop Time: 1227
Analyses: Toxic Organics (TO-15)
Regulator #: 10240
Stop Pressure: -7
Initial Vacuum (Hg)
Final Vacuum (Hg/PSI)
Data

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

CASE NARRATIVE

Tetra Tech, EMI
Project Name: R36900
Project # N/A
Order ID # Q1927
Test Name: TO-15

A. Number of Samples and Date of Receipt:
6 Air samples were received on 04/30/2025.

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

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

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

The RPD for {Q1927-01DUP} with File ID: VL042477.D met criteria except for Chloromethane[26.9%], Methylene Chloride[26.7%] due to difference in results of original and DUP.

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

The Initial Calibration met the requirements except for Naphthalene have more than 30% RSD in the Initial Calibration with dated 05/01/2025 with L Instrument but as per method two compounds as allowed to be fail.
The Continuous Calibration met the requirements.
The Tuning criteria met requirements.

Sample EBR-P03-SC-SS01-20250428 was diluted due to high concentration.

E. Additional Comments:

The not QT review data is reported in the Miscellaneous.

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

The Sample # EBR-P03-SC-IA01-20250428, EBR-P04-SC-SS01-20250428, EBR-P03-SC-SS01-20250428DL and EBR-P07-SC-IA01-20250428 have the concentration of target compound below Method detection limits, therefore it is not reported as Hit in Form1.

The Form 6 is not included in the data package because the Initial Calibration was performed using 7 points.

The Manual Integrations are performed for the followings.

Manual Integration Report			
Sequence	VL050125	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICCC010	VL042458.D	1,4-Dioxane	SAM	5/2/2025 7:56:35 AM	MMDadoda	5/5/2025 2:55:42 PM	Peak Integrated by Software incorrectly
VSTDICCC010	VL042458.D	m/p-Xylene	SAM	5/2/2025 7:56:35 AM	MMDadoda	5/5/2025 2:55:42 PM	Peak Integrated by Software incorrectly
VSTDICC002	VL042459.D	1,1,2-Trichloroethane	SAM	5/2/2025 7:56:42 AM	MMDadoda	5/5/2025 2:55:44 PM	Peak Integrated by Software incorrectly
VSTDICC002	VL042459.D	1,4-Dioxane	SAM	5/2/2025 7:56:42 AM	MMDadoda	5/5/2025 2:55:44 PM	Peak Integrated by Software incorrectly
VSTDICC002	VL042459.D	Heptane	SAM	5/2/2025 7:56:42 AM	MMDadoda	5/5/2025 2:55:44 PM	Peak Integrated by Software incorrectly
VSTDICC002	VL042459.D	m/p-Xylene	SAM	5/2/2025 7:56:42 AM	MMDadoda	5/5/2025 2:55:44 PM	Peak Integrated by Software incorrectly
VSTDICC002	VL042459.D	Methyl Methacrylate	SAM	5/2/2025 7:56:42 AM	MMDadoda	5/5/2025 2:55:44 PM	Peak Integrated by

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

							Software incorrectly
VSTDICC002	VL042459.D	t-1,3-Dichloropropene	SAM	5/2/2025 7:56:42 AM	MMDadoda	5/5/2025 2:55:44 PM	Peak Integrated by Software incorrectly
VSTDICC002	VL042459.D	Tetrahydrofuran	SAM	5/2/2025 7:56:42 AM	MMDadoda	5/5/2025 2:55:44 PM	Peak Integrated by Software incorrectly
VSTDICC002	VL042459.D	Trichloroethene	SAM	5/2/2025 7:56:42 AM	MMDadoda	5/5/2025 2:55:44 PM	Peak Integrated by Software incorrectly
VSTDICC001	VL042460.D	1,1,2-Trichloroethane	SAM	5/2/2025 7:58:04 AM	MMDadoda	5/5/2025 2:55:47 PM	Peak Integrated by Software incorrectly
VSTDICC001	VL042460.D	Trichloroethene	SAM	5/2/2025 7:58:04 AM	MMDadoda	5/5/2025 2:55:47 PM	Peak Integrated by Software incorrectly
VSTDICC001	VL042460.D	Trichlorofluoromethane	SAM	5/2/2025 7:58:04 AM	MMDadoda	5/5/2025 2:55:47 PM	Peak Integrated by Software incorrectly
VSTDICC0.5	VL042461.D	1,1,1-Trichloroethane	SAM	5/2/2025 7:56:59 AM	MMDadoda	5/5/2025 2:55:50 PM	Peak Integrated by Software incorrectly
VSTDICC0.5	VL042461.D	1,1,2-Trichloroethane	SAM	5/2/2025 7:56:59 AM	MMDadoda	5/5/2025 2:55:50 PM	Peak Integrated by Software incorrectly
VSTDICC0.5	VL042461.D	1,2-Dichloropropane	SAM	5/2/2025 7:56:59 AM	MMDadoda	5/5/2025 2:55:50 PM	Peak Integrated by Software incorrectly
VSTDICC0.5	VL042461.D	1,4-Dioxane	SAM	5/2/2025 7:56:59 AM	MMDadoda	5/5/2025 2:55:50 PM	Peak Integrated by Software incorrectly
VSTDICC0.5	VL042461.D	2,2,4-Trimethylpentane	SAM	5/2/2025 7:56:59 AM	MMDadoda	5/5/2025 2:55:50 PM	Peak Integrated by

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

							Software incorrectly
VSTDICC0.5	VL042461.D	2-Hexanone	SAM	5/2/2025 7:56:59 AM	MMDadoda	5/5/2025 2:55:50 PM	Peak Integrated by Software incorrectly
VSTDICC0.5	VL042461.D	4-Methyl-2-Pentanone	SAM	5/2/2025 7:56:59 AM	MMDadoda	5/5/2025 2:55:50 PM	Peak Integrated by Software incorrectly
VSTDICC0.5	VL042461.D	Benzyl Chloride	SAM	5/2/2025 7:56:59 AM	MMDadoda	5/5/2025 2:55:50 PM	Peak Integrated by Software incorrectly
VSTDICC0.5	VL042461.D	cis-1,2-Dichloroethene	SAM	5/2/2025 7:56:59 AM	MMDadoda	5/5/2025 2:55:50 PM	Peak Integrated by Software incorrectly
VSTDICC0.5	VL042461.D	cis-1,3-Dichloropropene	SAM	5/2/2025 7:56:59 AM	MMDadoda	5/5/2025 2:55:50 PM	Peak Integrated by Software incorrectly
VSTDICC0.5	VL042461.D	Tetrahydrofuran	SAM	5/2/2025 7:56:59 AM	MMDadoda	5/5/2025 2:55:50 PM	Peak Integrated by Software incorrectly
VSTDICC0.5	VL042461.D	Toluene	SAM	5/2/2025 7:56:59 AM	MMDadoda	5/5/2025 2:55:50 PM	Peak Integrated by Software incorrectly
VSTDICC0.5	VL042461.D	Trichloroethene	SAM	5/2/2025 7:56:59 AM	MMDadoda	5/5/2025 2:55:50 PM	Peak Integrated by Software incorrectly
VSTDICC0.1	VL042462.D	1,1,1-Trichloroethane	SAM	5/2/2025 7:58:46 AM	MMDadoda	5/5/2025 2:55:52 PM	Peak Integrated by Software incorrectly
VSTDICC0.1	VL042462.D	1,2-Dibromoethane	SAM	5/2/2025 7:58:46 AM	MMDadoda	5/5/2025 2:55:52 PM	Peak Integrated by Software incorrectly
VSTDICC0.1	VL042462.D	Naphthalene	SAM	5/2/2025 7:58:46 AM	MMDadoda	5/5/2025 2:55:52 PM	Peak Integrated by

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

							Software incorrectly
VSTDICC0.1	VL042462.D	Tetrachloroethene	SAM	5/2/2025 7:58:46 AM	MMDadoda	5/5/2025 2:55:52 PM	Peak Integrated by Software incorrectly
VSTDICC0.1	VL042462.D	Trichloroethene	SAM	5/2/2025 7:58:46 AM	MMDadoda	5/5/2025 2:55:52 PM	Peak Integrated by Software incorrectly
VSTDICC015	VL042465.D	cis-1,3-Dichloropropene	SAM	5/2/2025 7:58:52 AM	MMDadoda	5/5/2025 2:56:22 PM	Peak Integrated by Software incorrectly
VSTDICC015	VL042465.D	m/p-Xylene	SAM	5/2/2025 7:58:52 AM	MMDadoda	5/5/2025 2:56:22 PM	Peak Integrated by Software incorrectly
VSTDICC0.03	VL042466.D	1,1,1-Trichloroethane	SAM	5/2/2025 7:58:22 AM	MMDadoda	5/5/2025 2:56:24 PM	Peak Integrated by Software incorrectly
VSTDICC0.03	VL042466.D	1,1,2,2-Tetrachloroethane	SAM	5/2/2025 7:58:22 AM	MMDadoda	5/5/2025 2:56:24 PM	Peak Integrated by Software incorrectly
VSTDICC0.03	VL042466.D	Carbon Tetrachloride	SAM	5/2/2025 7:58:22 AM	MMDadoda	5/5/2025 2:56:24 PM	Peak Integrated by Software incorrectly
VSTDICC0.03	VL042466.D	Tetrachloroethene	SAM	5/2/2025 7:58:22 AM	MMDadoda	5/5/2025 2:56:24 PM	Peak Integrated by Software incorrectly
VSTDICV010	VL042467.D	1,4-Dioxane	SAM	5/2/2025 7:56:48 AM	MMDadoda	5/5/2025 2:56:26 PM	Peak Integrated by Software incorrectly
VSTDICV010	VL042467.D	m/p-Xylene	SAM	5/2/2025 7:56:48 AM	MMDadoda	5/5/2025 2:56:26 PM	Peak Integrated by Software incorrectly
VSTDICV010	VL042467.D	t-1,3-Dichloropropene	SAM	5/2/2025 7:56:48 AM	MMDadoda	5/5/2025 2:56:26 PM	Peak Integrated by

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

							Software incorrectly
Sequence	VL050525	Instrument				MSVOA_I	

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC010	VL042469.D	m/p-Xylene	SAM	5/6/2025 10:20:33 AM	MMDadoda	5/6/2025 12:41:48 PM	Peak Integrated by Software incorrectly
VL0505ABS01	VL042471.D	Heptane	SAM	5/6/2025 10:20:39 AM	MMDadoda	5/6/2025 12:41:46 PM	Peak Integrated by Software incorrectly
VL0505ABS01	VL042471.D	m/p-Xylene	SAM	5/6/2025 10:20:39 AM	MMDadoda	5/6/2025 12:41:46 PM	Peak Integrated by Software incorrectly
VL0505ABS01	VL042471.D	Trichloroethene	SAM	5/6/2025 10:20:39 AM	MMDadoda	5/6/2025 12:41:46 PM	Peak Integrated by Software incorrectly
Q1927-04DL	VL042473.D	Heptane	SAM	5/6/2025 10:20:43 AM	MMDadoda	5/6/2025 12:41:44 PM	Peak Integrated by Software incorrectly
Q1927-04DL	VL042473.D	m/p-Xylene	SAM	5/6/2025 10:20:43 AM	MMDadoda	5/6/2025 12:41:44 PM	Peak Integrated by Software incorrectly
Q1927-04DL	VL042473.D	Propene	SAM	5/6/2025 10:20:43 AM	MMDadoda	5/6/2025 12:41:44 PM	Peak Integrated by Software incorrectly
Q1927-03	VL042474.D	1,1,1-Trichloroethane	SAM	5/6/2025 10:21:15 AM	MMDadoda	5/6/2025 12:41:42 PM	Peak Integrated by Software incorrectly
Q1927-03	VL042474.D	Benzene	SAM	5/6/2025 10:21:15 AM	MMDadoda	5/6/2025 12:41:42 PM	Peak Integrated by Software incorrectly
Q1927-03	VL042474.D	Carbon Tetrachloride	SAM	5/6/2025 10:21:15 AM	MMDadoda	5/6/2025 12:41:42 PM	Peak Integrated by Software incorrectly
Q1927-03	VL042474.D	Chlorodifluoromethane	SAM	5/6/2025 10:21:15 AM	MMDadoda	5/6/2025 12:41:42 PM	Peak Integrated by Software incorrectly
Q1927-03	VL042474.D	Hexane	SAM	5/6/2025 10:21:15 AM	MMDadoda	5/6/2025 12:41:42 PM	Peak Integrated by Software incorrectly

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

Q1927-03	VL042474.D	m/p-Xylene	SAM	5/6/2025 10:21:15 AM	MMDadoda	5/6/2025 12:41:42 PM	Peak Integrated by Software incorrectly
Q1927-03	VL042474.D	Toluene	SAM	5/6/2025 10:21:15 AM	MMDadoda	5/6/2025 12:41:42 PM	Peak Integrated by Software incorrectly
Q1927-04	VL042475.D	Carbon Tetrachloride	SAM	5/6/2025 10:20:48 AM	MMDadoda	5/6/2025 12:42:07 PM	Peak Integrated by Software incorrectly
Q1927-04	VL042475.D	Chlorodifluoromethane	SAM	5/6/2025 10:20:48 AM	MMDadoda	5/6/2025 12:42:07 PM	Peak Integrated by Software incorrectly
Q1927-04	VL042475.D	Chloroform	SAM	5/6/2025 10:20:48 AM	MMDadoda	5/6/2025 12:42:07 PM	Peak Integrated by Software incorrectly
Q1927-04	VL042475.D	Toluene	SAM	5/6/2025 10:20:48 AM	MMDadoda	5/6/2025 12:42:07 PM	Peak Integrated by Software incorrectly
Q1927-01	VL042476.D	Carbon Tetrachloride	SAM	5/6/2025 10:21:10 AM	MMDadoda	5/6/2025 12:42:09 PM	Peak Integrated by Software incorrectly
Q1927-01	VL042476.D	Chlorodifluoromethane	SAM	5/6/2025 10:21:10 AM	MMDadoda	5/6/2025 12:42:09 PM	Peak Integrated by Software incorrectly
Q1927-01	VL042476.D	Ethyl Benzene	SAM	5/6/2025 10:21:10 AM	MMDadoda	5/6/2025 12:42:09 PM	Peak Integrated by Software incorrectly
Q1927-01	VL042476.D	Hexane	SAM	5/6/2025 10:21:10 AM	MMDadoda	5/6/2025 12:42:09 PM	Peak Integrated by Software incorrectly
Q1927-01	VL042476.D	m/p-Xylene	SAM	5/6/2025 10:21:10 AM	MMDadoda	5/6/2025 12:42:09 PM	Peak Integrated by Software incorrectly
Q1927-01	VL042476.D	o-Xylene	SAM	5/6/2025 10:21:10 AM	MMDadoda	5/6/2025 12:42:09 PM	Peak Integrated by Software incorrectly
Q1927-01	VL042476.D	Propene	SAM	5/6/2025 10:21:10 AM	MMDadoda	5/6/2025 12:42:09 PM	Peak Integrated by Software incorrectly
Q1927-01	VL042476.D	Styrene	SAM	5/6/2025 10:21:10	MMDadoda	5/6/2025 12:42:09 PM	Peak Integrated by

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

				AM			Software incorrectly
Q1927-01	VL042476.D	Tetrachloroethene	SAM	5/6/2025 10:21:10 AM	MMDadoda	5/6/2025 12:42:09 PM	Peak Integrated by Software incorrectly
Q1927-01	VL042476.D	Toluene	SAM	5/6/2025 10:21:10 AM	MMDadoda	5/6/2025 12:42:09 PM	Peak Integrated by Software incorrectly
Q1927-01DUP	VL042477.D	Chlorodifluoromethane	SAM	5/6/2025 10:22:09 AM	MMDadoda	5/6/2025 12:42:10 PM	Peak Integrated by Software incorrectly
Q1927-01DUP	VL042477.D	Ethyl Benzene	SAM	5/6/2025 10:22:09 AM	MMDadoda	5/6/2025 12:42:10 PM	Peak Integrated by Software incorrectly
Q1927-01DUP	VL042477.D	m/p-Xylene	SAM	5/6/2025 10:22:09 AM	MMDadoda	5/6/2025 12:42:10 PM	Peak Integrated by Software incorrectly
Q1927-01DUP	VL042477.D	o-Xylene	SAM	5/6/2025 10:22:09 AM	MMDadoda	5/6/2025 12:42:10 PM	Peak Integrated by Software incorrectly
Q1927-01DUP	VL042477.D	Propene	SAM	5/6/2025 10:22:09 AM	MMDadoda	5/6/2025 12:42:10 PM	Peak Integrated by Software incorrectly
Q1927-01DUP	VL042477.D	Tetrachloroethene	SAM	5/6/2025 10:22:09 AM	MMDadoda	5/6/2025 12:42:10 PM	Peak Integrated by Software incorrectly
Q1927-01DUP	VL042477.D	Toluene	SAM	5/6/2025 10:22:09 AM	MMDadoda	5/6/2025 12:42:10 PM	Peak Integrated by Software incorrectly
Q1927-01DUP	VL042477.D	Trichlorofluoromethane	SAM	5/6/2025 10:22:09 AM	MMDadoda	5/6/2025 12:42:10 PM	Peak Integrated by Software incorrectly
Q1927-02	VL042479.D	Benzene	SAM	5/6/2025 10:21:44 AM	MMDadoda	5/6/2025 12:42:14 PM	Peak Integrated by Software incorrectly
Q1927-02	VL042479.D	Carbon Tetrachloride	SAM	5/6/2025 10:21:44 AM	MMDadoda	5/6/2025 12:42:14 PM	Peak Integrated by Software incorrectly
Q1927-02	VL042479.D	Chlorodifluoromethane	SAM	5/6/2025 10:21:44 AM	MMDadoda	5/6/2025 12:42:14 PM	Peak Integrated by Software incorrectly

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

Q1927-02	VL042479.D	Ethyl Benzene	SAM	5/6/2025 10:21:44 AM	MMDadoda	5/6/2025 12:42:14 PM	Peak Integrated by Software incorrectly
Q1927-02	VL042479.D	Hexane	SAM	5/6/2025 10:21:44 AM	MMDadoda	5/6/2025 12:42:14 PM	Peak Integrated by Software incorrectly
Q1927-02	VL042479.D	Isopropyl Alcohol	SAM	5/6/2025 10:21:44 AM	MMDadoda	5/6/2025 12:42:14 PM	Peak Integrated by Software incorrectly
Q1927-02	VL042479.D	m/p-Xylene	SAM	5/6/2025 10:21:44 AM	MMDadoda	5/6/2025 12:42:14 PM	Peak Integrated by Software incorrectly
Q1927-02	VL042479.D	o-Xylene	SAM	5/6/2025 10:21:44 AM	MMDadoda	5/6/2025 12:42:14 PM	Peak Integrated by Software incorrectly
Q1927-02	VL042479.D	Propene	SAM	5/6/2025 10:21:44 AM	MMDadoda	5/6/2025 12:42:14 PM	Peak Integrated by Software incorrectly
Q1927-02	VL042479.D	Toluene	SAM	5/6/2025 10:21:44 AM	MMDadoda	5/6/2025 12:42:14 PM	Peak Integrated by Software incorrectly
Q1927-05	VL042481.D	Benzene	SAM	5/6/2025 10:21:49 AM	MMDadoda	5/6/2025 12:42:17 PM	Peak Integrated by Software incorrectly
Q1927-05	VL042481.D	Carbon Tetrachloride	SAM	5/6/2025 10:21:49 AM	MMDadoda	5/6/2025 12:42:17 PM	Peak Integrated by Software incorrectly
Q1927-05	VL042481.D	Chlorodifluoromethane	SAM	5/6/2025 10:21:49 AM	MMDadoda	5/6/2025 12:42:17 PM	Peak Integrated by Software incorrectly
Q1927-05	VL042481.D	Hexane	SAM	5/6/2025 10:21:49 AM	MMDadoda	5/6/2025 12:42:17 PM	Peak Integrated by Software incorrectly
Q1927-05	VL042481.D	m/p-Xylene	SAM	5/6/2025 10:21:49 AM	MMDadoda	5/6/2025 12:42:17 PM	Peak Integrated by Software incorrectly
Q1927-05	VL042481.D	Propene	SAM	5/6/2025 10:21:49 AM	MMDadoda	5/6/2025 12:42:17 PM	Peak Integrated by Software incorrectly
Q1927-05	VL042481.D	Tetrahydrofuran	SAM	5/6/2025 10:21:49	MMDadoda	5/6/2025 12:42:17 PM	Peak Integrated by

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

				AM			Software incorrectly
Q1927-05	VL042481.D	Toluene	SAM	5/6/2025 10:21:49 AM	MMDadoda	5/6/2025 12:42:17 PM	Peak Integrated by Software incorrectly
Q1927-06	VL042483.D	Benzene	SAM	5/6/2025 10:21:20 AM	MMDadoda	5/6/2025 12:42:21 PM	Peak Integrated by Software incorrectly
Q1927-06	VL042483.D	Carbon Tetrachloride	SAM	5/6/2025 10:21:20 AM	MMDadoda	5/6/2025 12:42:21 PM	Peak Integrated by Software incorrectly
Q1927-06	VL042483.D	Chlorodifluoromethane	SAM	5/6/2025 10:21:20 AM	MMDadoda	5/6/2025 12:42:21 PM	Peak Integrated by Software incorrectly
Q1927-06	VL042483.D	Propene	SAM	5/6/2025 10:21:20 AM	MMDadoda	5/6/2025 12:42:21 PM	Peak Integrated by Software incorrectly
Q1927-06	VL042483.D	Toluene	SAM	5/6/2025 10:21:20 AM	MMDadoda	5/6/2025 12:42:21 PM	Peak Integrated by Software incorrectly

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

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

Signature_____

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 #: Q1927

	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: MAHESH PATEL **Date:** 05/08/2025

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

LAB CHRONICLE

OrderID:	Q1927	**OrderDate:**	4/30/2025 2:09:00 PM
Client:	Tetra Tech, EMI	**Project:**	R36900
Contact:	Ava Heiss	**Location:**	Air Lab

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1927-01	**EBR-P06-SC-IA01-20250428**	**Air**			**04/29/25**			**04/30/25**
			TO-15	TO-15			05/05/25	
Q1927-02	**EBR-P03-SC-IA01-20250428**	**Air**			**04/29/25**			**04/30/25**
			TO-15	TO-15			05/05/25	
Q1927-03	**EBR-P04-SC-SS01-20250428**	**Air**			**04/29/25**			**04/30/25**
			TO-15	TO-15			05/05/25	
Q1927-04	**EBR-P03-SC-SS01-20250428**	**Air**			**04/29/25**			**04/30/25**
			TO-15	TO-15			05/05/25	
Q1927-04DL	**EBR-P03-SC-SS01-20250428DL**	**Air**			**04/29/25**			**04/30/25**
			TO-15	TO-15			05/05/25	
Q1927-05	**EBR-P07-SC-IA01-20250428**	**Air**			**04/29/25**			**04/30/25**
			TO-15	TO-15			05/05/25	
Q1927-06	**EBR-P04-SC-IA01-20250428**	**Air**			**04/29/25**			**04/30/25**
			TO-15	TO-15			05/05/25	

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

Hit Summary Sheet
SW-846

SDG No.: Q1927

Client: Tetra Tech, EMI

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID:	**EBR-P06-SC-IA01-20250428**							
Q1927-01	EBR-P06-SC-IA01-	Air	Dichlorodifluoromethane	2.32	J	1.04	2.47	ug/m3
Q1927-01	EBR-P06-SC-IA01-	Air	Chloromethane	1.22		0.21	1.03	ug/m3
Q1927-01	EBR-P06-SC-IA01-	Air	Trichlorofluoromethane	1.40	J	0.90	2.81	ug/m3
Q1927-01	EBR-P06-SC-IA01-	Air	Acetone	30.4		0.57	1.19	ug/m3
Q1927-01	EBR-P06-SC-IA01-	Air	Methylene Chloride	4.52		0.66	1.74	ug/m3
Q1927-01	EBR-P06-SC-IA01-	Air	2-Butanone	1.80		0.35	1.47	ug/m3
Q1927-01	EBR-P06-SC-IA01-	Air	Carbon Tetrachloride	0.50		0.060	0.19	ug/m3
Q1927-01	EBR-P06-SC-IA01-	Air	Toluene	1.36	J	0.41	1.88	ug/m3
Q1927-01	EBR-P06-SC-IA01-	Air	Tetrachloroethene	0.47		0.14	0.20	ug/m3
Q1927-01	EBR-P06-SC-IA01-	Air	Ethyl Benzene	0.61	J	0.52	2.17	ug/m3
Q1927-01	EBR-P06-SC-IA01-	Air	m/p-Xylene	1.82	J	0.91	4.34	ug/m3
Q1927-01	EBR-P06-SC-IA01-	Air	o-Xylene	0.69	J	0.52	2.17	ug/m3
Q1927-01	EBR-P06-SC-IA01-	Air	Styrene	0.64	J	0.47	2.13	ug/m3
Q1927-01	EBR-P06-SC-IA01-	Air	Hexane	0.85	J	0.39	1.76	ug/m3
			Total Voc :	48.6				
			Total Concentration:	48.6				
Client ID:	**EBR-P03-SC-IA01-20250428**							
Q1927-02	EBR-P03-SC-IA01-	Air	Dichlorodifluoromethane	2.67		1.04	2.47	ug/m3
Q1927-02	EBR-P03-SC-IA01-	Air	Chloromethane	1.20		0.21	1.03	ug/m3
Q1927-02	EBR-P03-SC-IA01-	Air	Trichlorofluoromethane	1.97	J	0.90	2.81	ug/m3
Q1927-02	EBR-P03-SC-IA01-	Air	Acetone	15.9		0.57	1.19	ug/m3
Q1927-02	EBR-P03-SC-IA01-	Air	Methylene Chloride	2.12		0.66	1.74	ug/m3
Q1927-02	EBR-P03-SC-IA01-	Air	2-Butanone	1.74		0.35	1.47	ug/m3
Q1927-02	EBR-P03-SC-IA01-	Air	Carbon Tetrachloride	0.50		0.060	0.19	ug/m3
Q1927-02	EBR-P03-SC-IA01-	Air	Benzene	0.35	J	0.29	1.60	ug/m3
Q1927-02	EBR-P03-SC-IA01-	Air	Toluene	3.01		0.41	1.88	ug/m3
Q1927-02	EBR-P03-SC-IA01-	Air	m/p-Xylene	1.48	J	0.91	4.34	ug/m3
Q1927-02	EBR-P03-SC-IA01-	Air	Hexane	0.60	J	0.39	1.76	ug/m3
			Total Voc :	31.6				
			Total Concentration:	31.6				
Client ID:	**EBR-P04-SC-SS01-20250428**							
Q1927-03	EBR-P04-SC-SS01-	Air	Dichlorodifluoromethane	2.77		1.04	2.47	ug/m3
Q1927-03	EBR-P04-SC-SS01-	Air	Trichlorofluoromethane	1.57	J	0.90	2.81	ug/m3
Q1927-03	EBR-P04-SC-SS01-	Air	tert-Butyl alcohol	12.7		0.58	1.52	ug/m3
Q1927-03	EBR-P04-SC-SS01-	Air	Acetone	20.2		0.57	1.19	ug/m3
Q1927-03	EBR-P04-SC-SS01-	Air	Carbon Disulfide	2.09		0.50	1.56	ug/m3

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

Hit Summary Sheet
SW-846

SDG No.: Q1927

Client: Tetra Tech, EMI

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q1927-03	EBR-P04-SC-SS01-	Air	Methylene Chloride	2.08		0.66	1.74	ug/m3
Q1927-03	EBR-P04-SC-SS01-	Air	2-Butanone	1.50		0.35	1.47	ug/m3
Q1927-03	EBR-P04-SC-SS01-	Air	Carbon Tetrachloride	0.50		0.060	0.19	ug/m3
Q1927-03	EBR-P04-SC-SS01-	Air	Benzene	0.42	J	0.29	1.60	ug/m3
Q1927-03	EBR-P04-SC-SS01-	Air	Toluene	0.60	J	0.41	1.88	ug/m3
Q1927-03	EBR-P04-SC-SS01-	Air	Hexane	0.63	J	0.39	1.76	ug/m3
			Total Voc :	45.1				
			Total Concentration:	45.1				
Client ID:	**EBR-P03-SC-SS01-20250428**							
Q1927-04	EBR-P03-SC-SS01-	Air	Dichlorodifluoromethane	2.77		1.04	2.47	ug/m3
Q1927-04	EBR-P03-SC-SS01-	Air	Chloromethane	1.38		0.21	1.03	ug/m3
Q1927-04	EBR-P03-SC-SS01-	Air	tert-Butyl alcohol	15.5		0.58	1.52	ug/m3
Q1927-04	EBR-P03-SC-SS01-	Air	Heptane	21.3		0.45	2.05	ug/m3
Q1927-04	EBR-P03-SC-SS01-	Air	Acetone	96.4	E	0.57	1.19	ug/m3
Q1927-04	EBR-P03-SC-SS01-	Air	Carbon Disulfide	4.36		0.50	1.56	ug/m3
Q1927-04	EBR-P03-SC-SS01-	Air	Methylene Chloride	3.82		0.66	1.74	ug/m3
Q1927-04	EBR-P03-SC-SS01-	Air	2-Butanone	6.19		0.35	1.47	ug/m3
Q1927-04	EBR-P03-SC-SS01-	Air	Carbon Tetrachloride	0.38		0.060	0.19	ug/m3
Q1927-04	EBR-P03-SC-SS01-	Air	Chloroform	0.98	J	0.39	2.44	ug/m3
Q1927-04	EBR-P03-SC-SS01-	Air	Benzene	1.79		0.29	1.60	ug/m3
Q1927-04	EBR-P03-SC-SS01-	Air	Toluene	2.75		0.41	1.88	ug/m3
Q1927-04	EBR-P03-SC-SS01-	Air	Ethyl Benzene	1.69	J	0.52	2.17	ug/m3
Q1927-04	EBR-P03-SC-SS01-	Air	m/p-Xylene	6.52		0.91	4.34	ug/m3
Q1927-04	EBR-P03-SC-SS01-	Air	o-Xylene	3.00		0.52	2.17	ug/m3
Q1927-04	EBR-P03-SC-SS01-	Air	Hexane	56.4	E	0.39	1.76	ug/m3
			Total Voc :	225				
			Total Concentration:	225				
Client ID:	**EBR-P03-SC-SS01-20250428DL**							
Q1927-04DL	EBR-P03-SC-SS01-	Air	Heptane	18.9	JD	4.51	20.5	ug/m3
Q1927-04DL	EBR-P03-SC-SS01-	Air	Acetone	100	D	5.70	11.9	ug/m3
Q1927-04DL	EBR-P03-SC-SS01-	Air	Hexane	47.9	D	3.88	17.6	ug/m3
			Total Voc :	167				
			Total Concentration:	167				
Client ID:	**EBR-P07-SC-IA01-20250428**							
Q1927-05	EBR-P07-SC-IA01-	Air	Dichlorodifluoromethane	4.20		1.04	2.47	ug/m3
Q1927-05	EBR-P07-SC-IA01-	Air	Chloromethane	1.30		0.21	1.03	ug/m3
Q1927-05	EBR-P07-SC-IA01-	Air	Tetrahydrofuran	0.68	J	0.38	1.47	ug/m3
Q1927-05	EBR-P07-SC-IA01-	Air	Trichlorofluoromethane	5.62		0.90	2.81	ug/m3

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

Hit Summary Sheet
SW-846

SDG No.: Q1927

Client: Tetra Tech, EMI

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q1927-05	EBR-P07-SC-IA01-	Air	Acetone	10.2		0.57	1.19	ug/m3
Q1927-05	EBR-P07-SC-IA01-	Air	Methylene Chloride	5.56		0.66	1.74	ug/m3
Q1927-05	EBR-P07-SC-IA01-	Air	2-Butanone	1.03	J	0.35	1.47	ug/m3
Q1927-05	EBR-P07-SC-IA01-	Air	Carbon Tetrachloride	0.44		0.060	0.19	ug/m3
Q1927-05	EBR-P07-SC-IA01-	Air	Benzene	0.32	J	0.29	1.60	ug/m3
Q1927-05	EBR-P07-SC-IA01-	Air	Toluene	0.60	J	0.41	1.88	ug/m3
Q1927-05	EBR-P07-SC-IA01-	Air	Hexane	0.88	J	0.39	1.76	ug/m3
			Total Voc :	30.8				
			Total Concentration:	30.8				
Client ID:	**EBR-P04-SC-IA01-20250428**							
Q1927-06	EBR-P04-SC-IA01-	Air	Dichlorodifluoromethane	2.77		1.04	2.47	ug/m3
Q1927-06	EBR-P04-SC-IA01-	Air	Chloromethane	1.20		0.21	1.03	ug/m3
Q1927-06	EBR-P04-SC-IA01-	Air	Trichlorofluoromethane	1.40	J	0.90	2.81	ug/m3
Q1927-06	EBR-P04-SC-IA01-	Air	Acetone	8.08		0.57	1.19	ug/m3
Q1927-06	EBR-P04-SC-IA01-	Air	Methylene Chloride	1.46	J	0.66	1.74	ug/m3
Q1927-06	EBR-P04-SC-IA01-	Air	2-Butanone	0.80	J	0.35	1.47	ug/m3
Q1927-06	EBR-P04-SC-IA01-	Air	Carbon Tetrachloride	0.57		0.060	0.19	ug/m3
Q1927-06	EBR-P04-SC-IA01-	Air	Benzene	0.35	J	0.29	1.60	ug/m3
Q1927-06	EBR-P04-SC-IA01-	Air	Toluene	0.64	J	0.41	1.88	ug/m3
			Total Voc :	17.3				
			Total Concentration:	17.3				

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

Project : R36900 **Sampling Date :** 04/29/25

Field Id Number : EBR-P06-SC-IA01-20250 **Analysis Date :** 05/05/25

Laboratory Id Number : Q1927-01 **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	0.47	J	2.32		
Chloromethane	74-87-3	50.49	0.59		1.22		
Vinyl Chloride	75-01-4	62.5	0.03	U	0.08		
Bromomethane	74-83-9	94.94	0.5	U	1.94		
Chloroethane	75-00-3	64.52	0.5	U	1.32		
Tetrahydrofuran	109-99-9	72.11	0.5	U	1.47		
Trichlorofluoromethane	75-69-4	137.4	0.25	J	1.4		
Dichlorotetrafluoroethane	76-14-2	170.9	0.5	U	3.49		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	0.5	U	3.83		
tert-Butyl alcohol	75-65-0	74.12	0.5	U	1.52		
Heptane	142-82-5	100.2	0.5	U	2.05		
1,1-Dichloroethene	75-35-4	96.94	0.5	U	1.98		
Acetone	67-64-1	58.08	12.8		30.4		
Carbon Disulfide	75-15-0	76.14	0.5	U	1.56		
Methyl tert-Butyl Ether	1634-04-4	88.15	0.5	U	1.8		
Methylene Chloride	75-09-2	84.94	1.3		4.52		
trans-1,2-Dichloroethene	156-60-5	96.94	0.5	U	1.98		
1,1-Dichloroethane	75-34-3	98.96	0.5	U	2.02		
Cyclohexane	110-82-7	84.16	0.5	U	1.72		
2-Butanone	78-93-3	72.11	0.61		1.8		
Carbon Tetrachloride	56-23-5	153.8	0.08		0.5		
cis-1,2-Dichloroethene	156-59-2	96.94	0.5	U	1.98		
Chloroform	67-66-3	119.4	0.5	U	2.44		
1,1,1-Trichloroethane	71-55-6	133.4	0.03	U	0.16		
2,2,4-Trimethylpentane	540-84-1	114.2	0.5	U	2.34		
Benzene	71-43-2	78.11	0.5	U	1.6		
1,2-Dichloroethane	107-06-2	98.96	0.5	U	2.02		
Trichloroethene	79-01-6	131.4	0.03	U	0.16		
1,2-Dichloropropane	78-87-5	113	0.5	U	2.31		
Bromodichloromethane	75-27-4	163.8	0.5	U	3.35		
4-Methyl-2-Pentanone	108-10-1	100.2	0.5	U	2.05		
Toluene	108-88-3	92.14	0.36	J	1.36		
t-1,3-Dichloropropene	10061-02-6	111	0.5	U	2.27		
cis-1,3-Dichloropropene	10061-01-5	111	0.5	U	2.27		
1,1,2-Trichloroethane	79-00-5	133.4	0.5	U	2.73		

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

Project : R36900 **Sampling Date :** 04/29/25

Field Id Number : EBR-P06-SC-IA01-2025(**Analysis Date :** 05/05/25

Laboratory Id Number : Q1927-01 **Target Analyts :** Air Results

Dibromochloromethane	124-48-1	208.3	0.5	U	4.26		
1,2-Dibromoethane	106-93-4	187.9	0.1	U	0.77		
Tetrachloroethene	127-18-4	165.8	0.07		0.47		
Chlorobenzene	108-90-7	112.6	0.5	U	2.3		
Ethyl Benzene	100-41-4	106.2	0.14	J	0.61		
m/p-Xylene	179601-23-1	106.2	0.42	J	1.82		
o-Xylene	95-47-6	106.2	0.16	J	0.69		
Styrene	100-42-5	104.1	0.15	J	0.64		
Bromoform	75-25-2	252.8	0.5	U	5.17		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	0.03	U	0.21		
2-Chlorotoluene	95-49-8	126.6	0.5	U	2.59		
1,3,5-Trimethylbenzene	108-67-8	120.2	0.5	U	2.46		
1,2,4-Trimethylbenzene	95-63-6	120.2	0.5	U	2.46		
1,3-Dichlorobenzene	541-73-1	147	0.5	U	3.01		
1,4-Dichlorobenzene	106-46-7	147	0.5	U	3.01		
1,2-Dichlorobenzene	95-50-1	147	0.5	U	3.01		
1,2,4-Trichlorobenzene	120-82-1	181.5	0.5	U	3.71		
Hexachloro-1,3-Butadiene	87-68-3	260.8	0.5	U	5.33		
Naphthalene	91-20-3	128.17	0.1	U	0.52		
1,3-Butadiene	106-99-0	54.09	0.5	U	1.11		
4-Ethyltoluene	622-96-8	120.2	0.5	U	2.46		
Hexane	110-54-3	86.17	0.24	J	0.85		
Allyl Chloride	107-05-1	76.53	0.5	U	1.57		
1,4-Dioxane	123-91-1	88.12	0.5	U	1.8		
Methyl Methacrylate	80-62-6	100.117	0.5	U	2.05		

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

Project : R36900 **Sampling Date :** 04/29/25

Field Id Number : EBR-P03-SC-IA01-20250 **Analysis Date :** 05/05/25

Laboratory Id Number : Q1927-02 **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	0.54		2.67		
Chloromethane	74-87-3	50.49	0.58		1.2		
Vinyl Chloride	75-01-4	62.5	0.03	U	0.08		
Bromomethane	74-83-9	94.94	0.5	U	1.94		
Chloroethane	75-00-3	64.52	0.5	U	1.32		
Tetrahydrofuran	109-99-9	72.11	0.5	U	1.47		
Trichlorofluoromethane	75-69-4	137.4	0.35	J	1.97		
Dichlorotetrafluoroethane	76-14-2	170.9	0.5	U	3.49		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	0.5	U	3.83		
tert-Butyl alcohol	75-65-0	74.12	0.5	U	1.52		
Heptane	142-82-5	100.2	0.5	U	2.05		
1,1-Dichloroethene	75-35-4	96.94	0.5	U	1.98		
Acetone	67-64-1	58.08	6.7		15.9		
Carbon Disulfide	75-15-0	76.14	0.5	U	1.56		
Methyl tert-Butyl Ether	1634-04-4	88.15	0.5	U	1.8		
Methylene Chloride	75-09-2	84.94	0.61		2.12		
trans-1,2-Dichloroethene	156-60-5	96.94	0.5	U	1.98		
1,1-Dichloroethane	75-34-3	98.96	0.5	U	2.02		
Cyclohexane	110-82-7	84.16	0.5	U	1.72		
2-Butanone	78-93-3	72.11	0.59		1.74		
Carbon Tetrachloride	56-23-5	153.8	0.08		0.5		
cis-1,2-Dichloroethene	156-59-2	96.94	0.5	U	1.98		
Chloroform	67-66-3	119.4	0.5	U	2.44		
1,1,1-Trichloroethane	71-55-6	133.4	0.03	U	0.16		
2,2,4-Trimethylpentane	540-84-1	114.2	0.5	U	2.34		
Benzene	71-43-2	78.11	0.11	J	0.35		
1,2-Dichloroethane	107-06-2	98.96	0.5	U	2.02		
Trichloroethene	79-01-6	131.4	0.03	U	0.16		
1,2-Dichloropropane	78-87-5	113	0.5	U	2.31		
Bromodichloromethane	75-27-4	163.8	0.5	U	3.35		
4-Methyl-2-Pentanone	108-10-1	100.2	0.5	U	2.05		
Toluene	108-88-3	92.14	0.8		3.01		
t-1,3-Dichloropropene	10061-02-6	111	0.5	U	2.27		
cis-1,3-Dichloropropene	10061-01-5	111	0.5	U	2.27		
1,1,2-Trichloroethane	79-00-5	133.4	0.5	U	2.73		

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

Project : R36900 **Sampling Date :** 04/29/25

Field Id Number : EBR-P03-SC-IA01-2025(**Analysis Date :** 05/05/25

Laboratory Id Number : Q1927-02 **Target Analyts :** Air Results

Dibromochloromethane	124-48-1	208.3	0.5	U	4.26		
1,2-Dibromoethane	106-93-4	187.9	0.1	U	0.77		
Tetrachloroethene	127-18-4	165.8	0.03	U	0.2		
Chlorobenzene	108-90-7	112.6	0.5	U	2.3		
Ethyl Benzene	100-41-4	106.2	0.5	U	2.17		
m/p-Xylene	179601-23-1	106.2	0.34	J	1.48		
o-Xylene	95-47-6	106.2	0.5	U	2.17		
Styrene	100-42-5	104.1	0.5	U	2.13		
Bromoform	75-25-2	252.8	0.5	U	5.17		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	0.03	U	0.21		
2-Chlorotoluene	95-49-8	126.6	0.5	U	2.59		
1,3,5-Trimethylbenzene	108-67-8	120.2	0.5	U	2.46		
1,2,4-Trimethylbenzene	95-63-6	120.2	0.5	U	2.46		
1,3-Dichlorobenzene	541-73-1	147	0.5	U	3.01		
1,4-Dichlorobenzene	106-46-7	147	0.5	U	3.01		
1,2-Dichlorobenzene	95-50-1	147	0.5	U	3.01		
1,2,4-Trichlorobenzene	120-82-1	181.5	0.5	U	3.71		
Hexachloro-1,3-Butadiene	87-68-3	260.8	0.5	U	5.33		
Naphthalene	91-20-3	128.17	0.1	U	0.52		
1,3-Butadiene	106-99-0	54.09	0.5	U	1.11		
4-Ethyltoluene	622-96-8	120.2	0.5	U	2.46		
Hexane	110-54-3	86.17	0.17	J	0.6		
Allyl Chloride	107-05-1	76.53	0.5	U	1.57		
1,4-Dioxane	123-91-1	88.12	0.5	U	1.8		
Methyl Methacrylate	80-62-6	100.117	0.5	U	2.05		

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

Project : R36900 **Sampling Date :** 04/29/25

Field Id Number : EBR-P04-SC-SS01-2025 **Analysis Date :** 05/05/25

Laboratory Id Number : Q1927-03 **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	0.56		2.77		
Chloromethane	74-87-3	50.49	0.5	U	1.03		
Vinyl Chloride	75-01-4	62.5	0.03	U	0.08		
Bromomethane	74-83-9	94.94	0.5	U	1.94		
Chloroethane	75-00-3	64.52	0.5	U	1.32		
Tetrahydrofuran	109-99-9	72.11	0.5	U	1.47		
Trichlorofluoromethane	75-69-4	137.4	0.28	J	1.57		
Dichlorotetrafluoroethane	76-14-2	170.9	0.5	U	3.49		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	0.5	U	3.83		
tert-Butyl alcohol	75-65-0	74.12	4.2		12.7		
Heptane	142-82-5	100.2	0.5	U	2.05		
1,1-Dichloroethene	75-35-4	96.94	0.5	U	1.98		
Acetone	67-64-1	58.08	8.5		20.2		
Carbon Disulfide	75-15-0	76.14	0.67		2.09		
Methyl tert-Butyl Ether	1634-04-4	88.15	0.5	U	1.8		
Methylene Chloride	75-09-2	84.94	0.6		2.08		
trans-1,2-Dichloroethene	156-60-5	96.94	0.5	U	1.98		
1,1-Dichloroethane	75-34-3	98.96	0.5	U	2.02		
Cyclohexane	110-82-7	84.16	0.5	U	1.72		
2-Butanone	78-93-3	72.11	0.51		1.5		
Carbon Tetrachloride	56-23-5	153.8	0.08		0.5		
cis-1,2-Dichloroethene	156-59-2	96.94	0.5	U	1.98		
Chloroform	67-66-3	119.4	0.5	U	2.44		
1,1,1-Trichloroethane	71-55-6	133.4	0.03	U	0.16		
2,2,4-Trimethylpentane	540-84-1	114.2	0.5	U	2.34		
Benzene	71-43-2	78.11	0.13	J	0.42		
1,2-Dichloroethane	107-06-2	98.96	0.5	U	2.02		
Trichloroethene	79-01-6	131.4	0.03	U	0.16		
1,2-Dichloropropane	78-87-5	113	0.5	U	2.31		
Bromodichloromethane	75-27-4	163.8	0.5	U	3.35		
4-Methyl-2-Pentanone	108-10-1	100.2	0.5	U	2.05		
Toluene	108-88-3	92.14	0.16	J	0.6		
t-1,3-Dichloropropene	10061-02-6	111	0.5	U	2.27		
cis-1,3-Dichloropropene	10061-01-5	111	0.5	U	2.27		
1,1,2-Trichloroethane	79-00-5	133.4	0.5	U	2.73		

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

Project : R36900 **Sampling Date :** 04/29/25

Field Id Number : EBR-P04-SC-SS01-2025 **Analysis Date :** 05/05/25

Laboratory Id Number : Q1927-03 **Target Analyts :** Air Results

Dibromochloromethane	124-48-1	208.3	0.5	U	4.26		
1,2-Dibromoethane	106-93-4	187.9	0.1	U	0.77		
Tetrachloroethene	127-18-4	165.8	0.03	U	0.2		
Chlorobenzene	108-90-7	112.6	0.5	U	2.3		
Ethyl Benzene	100-41-4	106.2	0.5	U	2.17		
m/p-Xylene	179601-23-1	106.2	1	U	4.34		
o-Xylene	95-47-6	106.2	0.5	U	2.17		
Styrene	100-42-5	104.1	0.5	U	2.13		
Bromoform	75-25-2	252.8	0.5	U	5.17		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	0.03	U	0.21		
2-Chlorotoluene	95-49-8	126.6	0.5	U	2.59		
1,3,5-Trimethylbenzene	108-67-8	120.2	0.5	U	2.46		
1,2,4-Trimethylbenzene	95-63-6	120.2	0.5	U	2.46		
1,3-Dichlorobenzene	541-73-1	147	0.5	U	3.01		
1,4-Dichlorobenzene	106-46-7	147	0.5	U	3.01		
1,2-Dichlorobenzene	95-50-1	147	0.5	U	3.01		
1,2,4-Trichlorobenzene	120-82-1	181.5	0.5	U	3.71		
Hexachloro-1,3-Butadiene	87-68-3	260.8	0.5	U	5.33		
Naphthalene	91-20-3	128.17	0.1	U	0.52		
1,3-Butadiene	106-99-0	54.09	0.5	U	1.11		
4-Ethyltoluene	622-96-8	120.2	0.5	U	2.46		
Hexane	110-54-3	86.17	0.18	J	0.63		
Allyl Chloride	107-05-1	76.53	0.5	U	1.57		
1,4-Dioxane	123-91-1	88.12	0.5	U	1.8		
Methyl Methacrylate	80-62-6	100.117	0.5	U	2.05		

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

Project : R36900 **Sampling Date :** 04/29/25

Field Id Number : EBR-P03-SC-SS01-2025 **Analysis Date :** 05/05/25

Laboratory Id Number : Q1927-04 **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	0.56		2.77		
Chloromethane	74-87-3	50.49	0.67		1.38		
Vinyl Chloride	75-01-4	62.5	0.03	U	0.08		
Bromomethane	74-83-9	94.94	0.5	U	1.94		
Chloroethane	75-00-3	64.52	0.5	U	1.32		
Tetrahydrofuran	109-99-9	72.11	0.5	U	1.47		
Trichlorofluoromethane	75-69-4	137.4	0.5	U	2.81		
Dichlorotetrafluoroethane	76-14-2	170.9	0.5	U	3.49		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	0.5	U	3.83		
tert-Butyl alcohol	75-65-0	74.12	5.1		15.5		
Heptane	142-82-5	100.2	5.2		21.3		
1,1-Dichloroethene	75-35-4	96.94	0.5	U	1.98		
Acetone	67-64-1	58.08	40.6	E	96.4		
Carbon Disulfide	75-15-0	76.14	1.4		4.36		
Methyl tert-Butyl Ether	1634-04-4	88.15	0.5	U	1.8		
Methylene Chloride	75-09-2	84.94	1.1		3.82		
trans-1,2-Dichloroethene	156-60-5	96.94	0.5	U	1.98		
1,1-Dichloroethane	75-34-3	98.96	0.5	U	2.02		
Cyclohexane	110-82-7	84.16	0.5	U	1.72		
2-Butanone	78-93-3	72.11	2.1		6.19		
Carbon Tetrachloride	56-23-5	153.8	0.06		0.38		
cis-1,2-Dichloroethene	156-59-2	96.94	0.5	U	1.98		
Chloroform	67-66-3	119.4	0.2	J	0.98		
1,1,1-Trichloroethane	71-55-6	133.4	0.03	U	0.16		
2,2,4-Trimethylpentane	540-84-1	114.2	0.5	U	2.34		
Benzene	71-43-2	78.11	0.56		1.79		
1,2-Dichloroethane	107-06-2	98.96	0.5	U	2.02		
Trichloroethene	79-01-6	131.4	0.03	U	0.16		
1,2-Dichloropropane	78-87-5	113	0.5	U	2.31		
Bromodichloromethane	75-27-4	163.8	0.5	U	3.35		
4-Methyl-2-Pentanone	108-10-1	100.2	0.5	U	2.05		
Toluene	108-88-3	92.14	0.73		2.75		
t-1,3-Dichloropropene	10061-02-6	111	0.5	U	2.27		
cis-1,3-Dichloropropene	10061-01-5	111	0.5	U	2.27		
1,1,2-Trichloroethane	79-00-5	133.4	0.5	U	2.73		

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

Project : R36900 **Sampling Date :** 04/29/25

Field Id Number : EBR-P03-SC-SS01-2025 **Analysis Date :** 05/05/25

Laboratory Id Number : Q1927-04 **Target Analyts :** Air Results

Dibromochloromethane	124-48-1	208.3	0.5	U	4.26		
1,2-Dibromoethane	106-93-4	187.9	0.1	U	0.77		
Tetrachloroethene	127-18-4	165.8	0.03	U	0.2		
Chlorobenzene	108-90-7	112.6	0.5	U	2.3		
Ethyl Benzene	100-41-4	106.2	0.39	J	1.69		
m/p-Xylene	179601-23-1	106.2	1.5		6.52		
o-Xylene	95-47-6	106.2	0.69		3		
Styrene	100-42-5	104.1	0.5	U	2.13		
Bromoform	75-25-2	252.8	0.5	U	5.17		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	0.03	U	0.21		
2-Chlorotoluene	95-49-8	126.6	0.5	U	2.59		
1,3,5-Trimethylbenzene	108-67-8	120.2	0.5	U	2.46		
1,2,4-Trimethylbenzene	95-63-6	120.2	0.5	U	2.46		
1,3-Dichlorobenzene	541-73-1	147	0.5	U	3.01		
1,4-Dichlorobenzene	106-46-7	147	0.5	U	3.01		
1,2-Dichlorobenzene	95-50-1	147	0.5	U	3.01		
1,2,4-Trichlorobenzene	120-82-1	181.5	0.5	U	3.71		
Hexachloro-1,3-Butadiene	87-68-3	260.8	0.5	U	5.33		
Naphthalene	91-20-3	128.17	0.1	U	0.52		
1,3-Butadiene	106-99-0	54.09	0.5	U	1.11		
4-Ethyltoluene	622-96-8	120.2	0.5	U	2.46		
Hexane	110-54-3	86.17	16	E	56.4		
Allyl Chloride	107-05-1	76.53	0.5	U	1.57		
1,4-Dioxane	123-91-1	88.12	0.5	U	1.8		
Methyl Methacrylate	80-62-6	100.117	0.5	U	2.05		

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

Project : R36900 **Sampling Date :** 04/29/25

Field Id Number : EBR-P03-SC-SS01-2025 **Analysis Date :** 05/05/25

Laboratory Id Number : Q1927-04DL **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	5	UD	24.7		
Chloromethane	74-87-3	50.49	5	UD	10.3		
Vinyl Chloride	75-01-4	62.5	0.3	UD	0.77		
Bromomethane	74-83-9	94.94	5	UD	19.4		
Chloroethane	75-00-3	64.52	5	UD	13.2		
Tetrahydrofuran	109-99-9	72.11	5	UD	14.8		
Trichlorofluoromethane	75-69-4	137.4	5	UD	28.1		
Dichlorotetrafluoroethane	76-14-2	170.9	5	UD	35.0		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	5	UD	38.3		
tert-Butyl alcohol	75-65-0	74.12	5	UD	15.2		
Heptane	142-82-5	100.2	4.6	JD	18.8		
1,1-Dichloroethene	75-35-4	96.94	5	UD	19.8		
Acetone	67-64-1	58.08	42.3	D	100		
Carbon Disulfide	75-15-0	76.14	5	UD	15.6		
Methyl tert-Butyl Ether	1634-04-4	88.15	5	UD	18.0		
Methylene Chloride	75-09-2	84.94	5	UD	17.4		
trans-1,2-Dichloroethene	156-60-5	96.94	5	UD	19.8		
1,1-Dichloroethane	75-34-3	98.96	5	UD	20.2		
Cyclohexane	110-82-7	84.16	5	UD	17.2		
2-Butanone	78-93-3	72.11	5	UD	14.8		
Carbon Tetrachloride	56-23-5	153.8	0.3	UD	1.89		
cis-1,2-Dichloroethene	156-59-2	96.94	5	UD	19.8		
Chloroform	67-66-3	119.4	5	UD	24.4		
1,1,1-Trichloroethane	71-55-6	133.4	0.3	UD	1.64		
2,2,4-Trimethylpentane	540-84-1	114.2	5	UD	23.4		
Benzene	71-43-2	78.11	5	UD	16.0		
1,2-Dichloroethane	107-06-2	98.96	5	UD	20.2		
Trichloroethene	79-01-6	131.4	0.3	UD	1.61		
1,2-Dichloropropane	78-87-5	113	5	UD	23.1		
Bromodichloromethane	75-27-4	163.8	5	UD	33.5		
4-Methyl-2-Pentanone	108-10-1	100.2	5	UD	20.5		
Toluene	108-88-3	92.14	5	UD	18.8		
t-1,3-Dichloropropene	10061-02-6	111	5	UD	22.7		
cis-1,3-Dichloropropene	10061-01-5	111	5	UD	22.7		
1,1,2-Trichloroethane	79-00-5	133.4	5	UD	27.3		

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

Project : R36900 **Sampling Date :** 04/29/25

Field Id Number : EBR-P03-SC-SS01-2025 **Analysis Date :** 05/05/25

Laboratory Id Number : Q1927-04DL **Target Analyts :** Air Results

Dibromochloromethane	124-48-1	208.3	5	UD	42.6		
1,2-Dibromoethane	106-93-4	187.9	1	UD	7.69		
Tetrachloroethene	127-18-4	165.8	0.3	UD	2.03		
Chlorobenzene	108-90-7	112.6	5	UD	23.0		
Ethyl Benzene	100-41-4	106.2	5	UD	21.7		
m/p-Xylene	179601-23-1	106.2	10	UD	43.4		
o-Xylene	95-47-6	106.2	5	UD	21.7		
Styrene	100-42-5	104.1	5	UD	21.3		
Bromoform	75-25-2	252.8	5	UD	51.7		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	0.3	UD	2.06		
2-Chlorotoluene	95-49-8	126.6	5	UD	25.9		
1,3,5-Trimethylbenzene	108-67-8	120.2	5	UD	24.6		
1,2,4-Trimethylbenzene	95-63-6	120.2	5	UD	24.6		
1,3-Dichlorobenzene	541-73-1	147	5	UD	30.1		
1,4-Dichlorobenzene	106-46-7	147	5	UD	30.1		
1,2-Dichlorobenzene	95-50-1	147	5	UD	30.1		
1,2,4-Trichlorobenzene	120-82-1	181.5	5	UD	37.1		
Hexachloro-1,3-Butadiene	87-68-3	260.8	5	UD	53.3		
Naphthalene	91-20-3	128.17	1	UD	5.24		
1,3-Butadiene	106-99-0	54.09	5	UD	11.1		
4-Ethyltoluene	622-96-8	120.2	5	UD	24.6		
Hexane	110-54-3	86.17	13.6	D	47.9		
Allyl Chloride	107-05-1	76.53	5	UD	15.6		
1,4-Dioxane	123-91-1	88.12	5	UD	18.0		
Methyl Methacrylate	80-62-6	100.117	5	UD	20.5		

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

Project : R36900 **Sampling Date :** 04/29/25

Field Id Number : EBR-P07-SC-IA01-20250 **Analysis Date :** 05/05/25

Laboratory Id Number : Q1927-05 **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	0.85		4.2		
Chloromethane	74-87-3	50.49	0.63		1.3		
Vinyl Chloride	75-01-4	62.5	0.03	U	0.08		
Bromomethane	74-83-9	94.94	0.5	U	1.94		
Chloroethane	75-00-3	64.52	0.5	U	1.32		
Tetrahydrofuran	109-99-9	72.11	0.23	J	0.68		
Trichlorofluoromethane	75-69-4	137.4	1		5.62		
Dichlorotetrafluoroethane	76-14-2	170.9	0.5	U	3.49		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	0.5	U	3.83		
tert-Butyl alcohol	75-65-0	74.12	0.5	U	1.52		
Heptane	142-82-5	100.2	0.5	U	2.05		
1,1-Dichloroethene	75-35-4	96.94	0.5	U	1.98		
Acetone	67-64-1	58.08	4.3		10.2		
Carbon Disulfide	75-15-0	76.14	0.5	U	1.56		
Methyl tert-Butyl Ether	1634-04-4	88.15	0.5	U	1.8		
Methylene Chloride	75-09-2	84.94	1.6		5.56		
trans-1,2-Dichloroethene	156-60-5	96.94	0.5	U	1.98		
1,1-Dichloroethane	75-34-3	98.96	0.5	U	2.02		
Cyclohexane	110-82-7	84.16	0.5	U	1.72		
2-Butanone	78-93-3	72.11	0.35	J	1.03		
Carbon Tetrachloride	56-23-5	153.8	0.07		0.44		
cis-1,2-Dichloroethene	156-59-2	96.94	0.5	U	1.98		
Chloroform	67-66-3	119.4	0.5	U	2.44		
1,1,1-Trichloroethane	71-55-6	133.4	0.03	U	0.16		
2,2,4-Trimethylpentane	540-84-1	114.2	0.5	U	2.34		
Benzene	71-43-2	78.11	0.1	J	0.32		
1,2-Dichloroethane	107-06-2	98.96	0.5	U	2.02		
Trichloroethene	79-01-6	131.4	0.03	U	0.16		
1,2-Dichloropropane	78-87-5	113	0.5	U	2.31		
Bromodichloromethane	75-27-4	163.8	0.5	U	3.35		
4-Methyl-2-Pentanone	108-10-1	100.2	0.5	U	2.05		
Toluene	108-88-3	92.14	0.16	J	0.6		
t-1,3-Dichloropropene	10061-02-6	111	0.5	U	2.27		
cis-1,3-Dichloropropene	10061-01-5	111	0.5	U	2.27		
1,1,2-Trichloroethane	79-00-5	133.4	0.5	U	2.73		

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

Project : R36900 **Sampling Date :** 04/29/25

Field Id Number : EBR-P07-SC-IA01-2025(**Analysis Date :** 05/05/25

Laboratory Id Number : Q1927-05 **Target Analyts :** Air Results

Dibromochloromethane	124-48-1	208.3	0.5	U	4.26		
1,2-Dibromoethane	106-93-4	187.9	0.1	U	0.77		
Tetrachloroethene	127-18-4	165.8	0.03	U	0.2		
Chlorobenzene	108-90-7	112.6	0.5	U	2.3		
Ethyl Benzene	100-41-4	106.2	0.5	U	2.17		
m/p-Xylene	179601-23-1	106.2	1	U	4.34		
o-Xylene	95-47-6	106.2	0.5	U	2.17		
Styrene	100-42-5	104.1	0.5	U	2.13		
Bromoform	75-25-2	252.8	0.5	U	5.17		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	0.03	U	0.21		
2-Chlorotoluene	95-49-8	126.6	0.5	U	2.59		
1,3,5-Trimethylbenzene	108-67-8	120.2	0.5	U	2.46		
1,2,4-Trimethylbenzene	95-63-6	120.2	0.5	U	2.46		
1,3-Dichlorobenzene	541-73-1	147	0.5	U	3.01		
1,4-Dichlorobenzene	106-46-7	147	0.5	U	3.01		
1,2-Dichlorobenzene	95-50-1	147	0.5	U	3.01		
1,2,4-Trichlorobenzene	120-82-1	181.5	0.5	U	3.71		
Hexachloro-1,3-Butadiene	87-68-3	260.8	0.5	U	5.33		
Naphthalene	91-20-3	128.17	0.1	U	0.52		
1,3-Butadiene	106-99-0	54.09	0.5	U	1.11		
4-Ethyltoluene	622-96-8	120.2	0.5	U	2.46		
Hexane	110-54-3	86.17	0.25	J	0.88		
Allyl Chloride	107-05-1	76.53	0.5	U	1.57		
1,4-Dioxane	123-91-1	88.12	0.5	U	1.8		
Methyl Methacrylate	80-62-6	100.117	0.5	U	2.05		

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

Project : R36900 **Sampling Date :** 04/29/25

Field Id Number : EBR-P04-SC-IA01-20250 **Analysis Date :** 05/05/25

Laboratory Id Number : Q1927-06 **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	0.56		2.77		
Chloromethane	74-87-3	50.49	0.58		1.2		
Vinyl Chloride	75-01-4	62.5	0.03	U	0.08		
Bromomethane	74-83-9	94.94	0.5	U	1.94		
Chloroethane	75-00-3	64.52	0.5	U	1.32		
Tetrahydrofuran	109-99-9	72.11	0.5	U	1.47		
Trichlorofluoromethane	75-69-4	137.4	0.25	J	1.4		
Dichlorotetrafluoroethane	76-14-2	170.9	0.5	U	3.49		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	0.5	U	3.83		
tert-Butyl alcohol	75-65-0	74.12	0.5	U	1.52		
Heptane	142-82-5	100.2	0.5	U	2.05		
1,1-Dichloroethene	75-35-4	96.94	0.5	U	1.98		
Acetone	67-64-1	58.08	3.4		8.08		
Carbon Disulfide	75-15-0	76.14	0.5	U	1.56		
Methyl tert-Butyl Ether	1634-04-4	88.15	0.5	U	1.8		
Methylene Chloride	75-09-2	84.94	0.42	J	1.46		
trans-1,2-Dichloroethene	156-60-5	96.94	0.5	U	1.98		
1,1-Dichloroethane	75-34-3	98.96	0.5	U	2.02		
Cyclohexane	110-82-7	84.16	0.5	U	1.72		
2-Butanone	78-93-3	72.11	0.27	J	0.8		
Carbon Tetrachloride	56-23-5	153.8	0.09		0.57		
cis-1,2-Dichloroethene	156-59-2	96.94	0.5	U	1.98		
Chloroform	67-66-3	119.4	0.5	U	2.44		
1,1,1-Trichloroethane	71-55-6	133.4	0.03	U	0.16		
2,2,4-Trimethylpentane	540-84-1	114.2	0.5	U	2.34		
Benzene	71-43-2	78.11	0.11	J	0.35		
1,2-Dichloroethane	107-06-2	98.96	0.5	U	2.02		
Trichloroethene	79-01-6	131.4	0.03	U	0.16		
1,2-Dichloropropane	78-87-5	113	0.5	U	2.31		
Bromodichloromethane	75-27-4	163.8	0.5	U	3.35		
4-Methyl-2-Pentanone	108-10-1	100.2	0.5	U	2.05		
Toluene	108-88-3	92.14	0.17	J	0.64		
t-1,3-Dichloropropene	10061-02-6	111	0.5	U	2.27		
cis-1,3-Dichloropropene	10061-01-5	111	0.5	U	2.27		
1,1,2-Trichloroethane	79-00-5	133.4	0.5	U	2.73		

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

Project : R36900 **Sampling Date :** 04/29/25

Field Id Number : EBR-P04-SC-IA01-20250 **Analysis Date :** 05/05/25

Laboratory Id Number : Q1927-06 **Target Analyts :** Air Results

Dibromochloromethane	124-48-1	208.3	0.5	U	4.26		
1,2-Dibromoethane	106-93-4	187.9	0.1	U	0.77		
Tetrachloroethene	127-18-4	165.8	0.03	U	0.2		
Chlorobenzene	108-90-7	112.6	0.5	U	2.3		
Ethyl Benzene	100-41-4	106.2	0.5	U	2.17		
m/p-Xylene	179601-23-1	106.2	1	U	4.34		
o-Xylene	95-47-6	106.2	0.5	U	2.17		
Styrene	100-42-5	104.1	0.5	U	2.13		
Bromoform	75-25-2	252.8	0.5	U	5.17		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	0.03	U	0.21		
2-Chlorotoluene	95-49-8	126.6	0.5	U	2.59		
1,3,5-Trimethylbenzene	108-67-8	120.2	0.5	U	2.46		
1,2,4-Trimethylbenzene	95-63-6	120.2	0.5	U	2.46		
1,3-Dichlorobenzene	541-73-1	147	0.5	U	3.01		
1,4-Dichlorobenzene	106-46-7	147	0.5	U	3.01		
1,2-Dichlorobenzene	95-50-1	147	0.5	U	3.01		
1,2,4-Trichlorobenzene	120-82-1	181.5	0.5	U	3.71		
Hexachloro-1,3-Butadiene	87-68-3	260.8	0.5	U	5.33		
1,3-Butadiene	106-99-0	54.09	0.5	U	1.11		
Naphthalene	91-20-3	128.17	0.1	U	0.52		
4-Ethyltoluene	622-96-8	120.2	0.5	U	2.46		
Hexane	110-54-3	86.17	0.5	U	1.76		
Allyl Chloride	107-05-1	76.53	0.5	U	1.57		
1,4-Dioxane	123-91-1	88.12	0.5	U	1.8		
Methyl Methacrylate	80-62-6	100.117	0.5	U	2.05		

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
03232023T13:12:00	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.: Q1927

Client: Tetra Tech, EMI

Analytical Method: SWTO-15

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits Low	Limits High
Q1927-01	EBR-P06-SC-IA01-20250428	1-Bromo-4-Fluorobenzene	10	10.1	101	65	135
Q1927-01DUP	EBR-P06-SC-IA01-20250428DUP	1-Bromo-4-Fluorobenzene	10	9.90	99	65	135
Q1927-02	EBR-P03-SC-IA01-20250428	1-Bromo-4-Fluorobenzene	10	10.4	104	65	135
Q1927-03	EBR-P04-SC-SS01-20250428	1-Bromo-4-Fluorobenzene	10	9.71	97	65	135
Q1927-04	EBR-P03-SC-SS01-20250428	1-Bromo-4-Fluorobenzene	10	10.1	101	65	135
Q1927-04DL	EBR-P03-SC-SS01-20250428DL	1-Bromo-4-Fluorobenzene	10	9.81	98	65	135
Q1927-05	EBR-P07-SC-IA01-20250428	1-Bromo-4-Fluorobenzene	10	9.90	99	65	135
Q1927-06	EBR-P04-SC-IA01-20250428	1-Bromo-4-Fluorobenzene	10	10.1	101	65	135
VL0505ABL01	VL0505ABL01	1-Bromo-4-Fluorobenzene	10	9.77	98	65	135
VL0505ABS01	VL0505ABS01	1-Bromo-4-Fluorobenzene	10	10.3	103	65	135

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.: Q1927

Client: Tetra Tech, EMI

Analytical Method: SWTO-15 **Datafile :** VL042471.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VL0505ABS01	Dichlorodifluoromethane	10	10.3	ppbv	103			70	130	
	Chloromethane	10	9.60	ppbv	96			70	130	
	Vinyl Chloride	10	9.50	ppbv	95			70	130	
	Bromomethane	10	10.0	ppbv	100			70	130	
	Chloroethane	10	10.1	ppbv	101			70	130	
	Tetrahydrofuran	10	9.40	ppbv	94			70	130	
	Trichlorofluoromethane	10	10.4	ppbv	104			70	130	
	1,1,2-Trichlorotrifluoroethane	10	10.2	ppbv	102			70	130	
	Dichlorotetrafluoethane	10	10.3	ppbv	103			70	130	
	tert-Butyl Alcohol	10	10.0	ppbv	100			70	130	
	Heptane	10	9.70	ppbv	97			70	130	
	1,1-Dichloroethene	10	9.90	ppbv	99			70	130	
	Acetone	10	8.00	ppbv	80			70	130	
	Carbon disulfide	10	10.6	ppbv	106			70	130	
	Methyl tert-butyl Ether	10	10.4	ppbv	104			70	130	
	Methylene Chloride	10	8.90	ppbv	89			70	130	
	trans-1,2-Dichloroethene	10	9.50	ppbv	95			70	130	
	1,1-Dichloroethane	10	10.0	ppbv	100			70	130	
	Cyclohexane	10	10.1	ppbv	101			70	130	
	2-Butanone	10	9.00	ppbv	90			70	130	
	Carbon Tetrachloride	10	10.1	ppbv	101			70	130	
	cis-1,2-Dichloroethene	10	9.60	ppbv	96			70	130	
	Chloroform	10	9.70	ppbv	97			70	130	
	1,1,1-Trichloroethane	10	9.60	ppbv	96			70	130	
	2,2,4-Trimethylpentane	10	9.70	ppbv	97			70	130	
	Benzene	10	9.70	ppbv	97			70	130	
	1,2-Dichloroethane	10	9.70	ppbv	97			70	130	
	Trichloroethene	10	10.0	ppbv	100			70	130	
	1,2-Dichloropropane	10	9.20	ppbv	92			70	130	
	Bromodichloromethane	10	10.3	ppbv	103			70	130	
	4-Methyl-2-Pentanone	10	9.40	ppbv	94			70	130	
	Toluene	10	10.4	ppbv	104			70	130	
	t-1,3-Dichloropropene	10	10.8	ppbv	108			70	130	
	cis-1,3-Dichloropropene	10	10.3	ppbv	103			70	130	
	1,1,2-Trichloroethane	10	9.60	ppbv	96			70	130	
	Dibromochloromethane	10	10.3	ppbv	103			70	130	
	1,2-Dibromoethane	10	9.60	ppbv	96			70	130	
	Tetrachloroethene	10	9.10	ppbv	91			70	130	
	Chlorobenzene	10	9.50	ppbv	95			70	130	
	Ethyl Benzene	10	10.6	ppbv	106			70	130	
	m/p-Xylene	20	21.5	ppbv	108			70	130	
	o-Xylene	10	10.8	ppbv	108			70	130	
	Styrene	10	11.1	ppbv	111			70	130	
	Bromoform	10	10.1	ppbv	101			70	130	
	1,1,2,2-Tetrachloroethane	10	9.10	ppbv	91			70	130	
	2-Chlorotoluene	10	10.7	ppbv	107			70	130	
	1,3,5-Trimethylbenzene	10	10.9	ppbv	109			70	130	
	1,2,4-Trimethylbenzene	10	10.1	ppbv	101			70	130	

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.: Q1927

Client: Tetra Tech, EMI

Analytical Method: SWTO-15 **Datafile :** VL042471.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VL0505ABS01	1,3-Dichlorobenzene	10	10.0	ppbv	100			70	130	
	1,4-Dichlorobenzene	10	10.7	ppbv	107			70	130	
	1,2-Dichlorobenzene	10	9.80	ppbv	98			70	130	
	1,2,4-Trichlorobenzene	10	10.5	ppbv	105			70	130	
	Hexachloro-1,3-butadiene	10	9.00	ppbv	90			70	130	
	Naphthalene	10	10.9	ppbv	109			70	130	
	1,3-Butadiene	10	9.70	ppbv	97			70	130	
	4-Ethyltoluene	10	11.2	ppbv	112			70	130	
	Hexane	10	9.70	ppbv	97			70	130	
	Allyl Chloride	10	9.90	ppbv	99			70	130	
	1,4-Dioxane	10	9.20	ppbv	92			70	130	
	Methyl methacrylate	10	10.3	ppbv	103			70	130	

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

Duplicate Sample Summary

Lab Sample Id :	Q1927-01DUP		Q1927-01	
Client Id :	EBR-P06-SC-IA01-202504		EBR-P06-SC-IA01-2025(	
DF :	1		1	
Datafile :	VL042477.D		VL042476.D	
Anal Date & Time :	05/05/2025	15:53	05/05/2025	15:18

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	0.59	0.61	3.3
2-Chlorotoluene	0	0	0
4-Ethyltoluene	0	0	0
4-Methyl-2-Pentanone	0	0	0
Acetone	12.7	12.8	0.78
Allyl Chloride	0	0	0
Benzene	0	0	0
Bromodichloromethane	0	0	0
Bromoform	0	0	0
Bromomethane	0	0	0
Carbon Disulfide	0	0	0
Carbon Tetrachloride	0.07	0.08	13.3

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

Duplicate Sample Summary

Lab Sample Id :	Q1927-01DUP		Q1927-01	
Client Id :	EBR-P06-SC-IA01-202504		EBR-P06-SC-IA01-2025(	
DF :	1		1	
Datafile :	VL042477.D		VL042476.D	
Anal Date & Time :	05/05/2025	15:53	05/05/2025	15:18

Parameter	Result	Result	RPD
Chlorobenzene	0	0	0
Chloroethane	0	0	0
Chloroform	0	0	0
Chloromethane	0.45	0.59	26.9 *
cis-1,2-Dichloroethene	0	0	0
cis-1,3-Dichloropropene	0	0	0
Cyclohexane	0	0	0
Dibromochloromethane	0	0	0
Dichlorodifluoromethane	0.47	0.47	0
Dichlorotetrafluoroethane	0	0	0
Ethyl Benzene	0.14	0.14	0
Heptane	0	0	0
Hexachloro-1,3-Butadiene	0	0	0
Hexane	0.25	0.24	4.1
m/p-Xylene	0.42	0.42	0
Methyl Methacrylate	0	0	0
Methyl tert-Butyl Ether	0	0	0
Methylene Chloride	1.7	1.3	26.7 *
Naphthalene	0	0	0
o-Xylene	0.16	0.16	0
Styrene	0.14	0.15	6.9
t-1,3-Dichloropropene	0	0	0
tert-Butyl alcohol	0	0	0
Tetrachloroethene	0.08	0.07	13.3
Tetrahydrofuran	0	0	0
Toluene	0.4	0.36	10.5
trans-1,2-Dichloroethene	0	0	0
Trichloroethene	0	0	0
Trichlorofluoromethane	0.27	0.25	7.7
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.

VL0505ABL01

Lab Name: CHEMTECH Contract: TETR16

Lab Code: CHEM Case No.: Q1927 SAS No.: Q1927 SDG NO.: Q1927

Lab File ID: VL042470.D Lab Sample ID: VL0505ABL01

Date Analyzed: 05/05/2025 Time Analyzed: 09:19

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
VL0505ABS01	VL0505ABS01	VL042471.D	05/05/2025
EBR-P03-SC-SS01-20250428DL	Q1927-04DL	VL042473.D	05/05/2025
EBR-P04-SC-SS01-20250428	Q1927-03	VL042474.D	05/05/2025
EBR-P03-SC-SS01-20250428	Q1927-04	VL042475.D	05/05/2025
EBR-P06-SC-IA01-20250428	Q1927-01	VL042476.D	05/05/2025
EBR-P06-SC-IA01-20250428DUP	Q1927-01DUP	VL042477.D	05/05/2025
EBR-P03-SC-IA01-20250428	Q1927-02	VL042479.D	05/05/2025
EBR-P07-SC-IA01-20250428	Q1927-05	VL042481.D	05/05/2025
EBR-P04-SC-IA01-20250428	Q1927-06	VL042483.D	05/05/2025

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: TETR16

Lab Code: CHEM Case No.: Q1927 SAS No.: Q1927 SDG NO.: Q1927

Lab File ID: VL042457.D BFB Injection Date: 05/01/2025

Instrument ID: MSVOA_L BFB Injection Time: 08:19

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	25.5
75	30.0 - 66.0% of mass 95	62.8
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	0.4 (0.6) 1
174	50.0 - 120.0% of mass 95	57.4
175	4.0 - 9.0% of mass 174	4.3 (7.5) 1
176	93.0 - 101.0% of mass 174	56.2 (97.9) 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	VL042458.D	05/01/2025	09:03
VSTDICC002	VSTDICC002	VL042459.D	05/01/2025	09:37
VSTDICC001	VSTDICC001	VL042460.D	05/01/2025	10:08
VSTDICC0.5	VSTDICC0.5	VL042461.D	05/01/2025	10:40
VSTDICC0.1	VSTDICC0.1	VL042462.D	05/01/2025	11:12
VSTDICC015	VSTDICC015	VL042465.D	05/01/2025	12:49
VSTDICC0.03	VSTDICC0.03	VL042466.D	05/01/2025	14:10

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: TETR16

Lab Code: CHEM Case No.: Q1927 SAS No.: Q1927 SDG NO.: Q1927

Lab File ID: VL042468.D BFB Injection Date: 05/05/2025

Instrument ID: MSVOA_L BFB Injection Time: 07:45

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	26
75	30.0 - 66.0% of mass 95	62.7
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.3
173	Less than 2.0% of mass 174	0.7 (1.3) 1
174	50.0 - 120.0% of mass 95	55
175	4.0 - 9.0% of mass 174	4.3 (7.8) 1
176	93.0 - 101.0% of mass 174	53.4 (97) 1
177	5.0 - 9.0% of mass 176	3.1 (5.8) 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	VL042469.D	05/05/2025	08:29
VL0505ABL01	VL0505ABL01	VL042470.D	05/05/2025	09:19
VL0505ABS01	VL0505ABS01	VL042471.D	05/05/2025	10:07
EBR-P03-SC-SS01-20250428DL	Q1927-04DL	VL042473.D	05/05/2025	11:22
EBR-P04-SC-SS01-20250428	Q1927-03	VL042474.D	05/05/2025	13:11
EBR-P03-SC-SS01-20250428	Q1927-04	VL042475.D	05/05/2025	14:44
EBR-P06-SC-IA01-20250428	Q1927-01	VL042476.D	05/05/2025	15:18
EBR-P06-SC-IA01-20250428DUP	Q1927-01DUP	VL042477.D	05/05/2025	15:53
EBR-P03-SC-IA01-20250428	Q1927-02	VL042479.D	05/05/2025	16:59
EBR-P07-SC-IA01-20250428	Q1927-05	VL042481.D	05/05/2025	18:06
EBR-P04-SC-IA01-20250428	Q1927-06	VL042483.D	05/05/2025	19:15

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: TETR16

Lab Code: CHEM Case No.: Q1927 SAS No.: Q1927 SDG NO.: Q1927

Lab File ID: VL042469.D Date Analyzed: 05/05/2025

Instrument ID: MSVOA_L Time Analyzed: 08:29

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	74861	2.79	207859	3.96	180939	8.89
UPPER LIMIT	104805	3.12	291003	4.29	253315	9.22
LOWER LIMIT	44916.6	2.46	124715	3.63	108563	8.56
EPA SAMPLE NO.						
EBR-P06-SC-IA01-20250428	74533	2.79	204912	3.96	170942	8.88
EBR-P06-SC-IA01-20250428DUP	73750	2.79	201304	3.97	172499	8.89
EBR-P03-SC-IA01-20250428	68950	2.79	192895	3.96	161884	8.89
EBR-P04-SC-SS01-20250428	71873	2.79	203294	3.96	175917	8.89
EBR-P03-SC-SS01-20250428	76909	2.79	213607	3.97	190161	8.89
EBR-P03-SC-SS01-20250428DL	80347	2.79	224542	3.97	185866	8.89
EBR-P07-SC-IA01-20250428	68224	2.79	186800	3.96	160233	8.89
EBR-P04-SC-IA01-20250428	69784	2.79	186712	3.96	154199	8.88
VL0505ABL01	74757	2.79	208518	3.96	177829	8.88
VL0505ABS01	73094	2.79	206118	3.96	177063	8.89

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

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

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

SAMPLE DATA

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

Report of Analysis

Client:	Tetra Tech, EMI	Date Collected:	04/29/25
Project:	R36900	Date Received:	04/30/25
Client Sample ID:	EBR-P06-SC-IA01-20250428	SDG No.:	Q1927
Lab Sample ID:	Q1927-01	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
VL042476.D	1		05/05/25 15:18	VL050525

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
74-87-3	Chloromethane	0.59	1.22		0.21	1.03	ug/m3
75-01-4	Vinyl Chloride	0.030	0.080	U	0.030	0.080	ug/m3
74-83-9	Bromomethane	0.50	1.94	U	0.54	1.94	ug/m3
75-00-3	Chloroethane	0.50	1.32	U	0.45	1.32	ug/m3
109-99-9	Tetrahydrofuran	0.50	1.47	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	0.50	3.83	U	1.23	3.83	ug/m3
76-14-2	Dichlorotetrafluoroethane	0.50	3.49	U	0.63	3.49	ug/m3
75-65-0	tert-Butyl alcohol	0.50	1.52	U	0.58	1.52	ug/m3
142-82-5	Heptane	0.50	2.05	U	0.45	2.05	ug/m3
75-35-4	1,1-Dichloroethene	0.50	1.98	U	0.56	1.98	ug/m3
67-64-1	Acetone	12.8	30.4		0.57	1.19	ug/m3
75-15-0	Carbon Disulfide	0.50	1.56	U	0.50	1.56	ug/m3
1634-04-4	Methyl tert-Butyl Ether	0.50	1.80	U	0.43	1.80	ug/m3
75-09-2	Methylene Chloride	1.30	4.52		0.66	1.74	ug/m3
156-60-5	trans-1,2-Dichloroethene	0.50	1.98	U	0.75	1.98	ug/m3
75-34-3	1,1-Dichloroethane	0.50	2.02	U	0.53	2.02	ug/m3
110-82-7	Cyclohexane	0.50	1.72	U	0.76	1.72	ug/m3
78-93-3	2-Butanone	0.61	1.80		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	0.50	1.98	U	0.36	1.98	ug/m3
67-66-3	Chloroform	0.50	2.44	U	0.39	2.44	ug/m3
71-55-6	1,1,1-Trichloroethane	0.030	0.16	U	0.050	0.16	ug/m3
540-84-1	2,2,4-Trimethylpentane	0.50	2.34	U	0.47	2.34	ug/m3
71-43-2	Benzene	0.50	1.60	U	0.29	1.60	ug/m3
107-06-2	1,2-Dichloroethane	0.50	2.02	U	0.36	2.02	ug/m3
79-01-6	Trichloroethene	0.030	0.16	U	0.11	0.16	ug/m3
78-87-5	1,2-Dichloropropane	0.50	2.31	U	0.51	2.31	ug/m3
75-27-4	Bromodichloromethane	0.50	3.35	U	0.54	3.35	ug/m3
108-10-1	4-Methyl-2-Pentanone	0.50	2.05	U	0.37	2.05	ug/m3
108-88-3	Toluene	0.36	1.36	J	0.41	1.88	ug/m3
10061-02-6	t-1,3-Dichloropropene	0.50	2.27	U	0.27	2.27	ug/m3
10061-01-5	cis-1,3-Dichloropropene	0.50	2.27	U	0.27	2.27	ug/m3
79-00-5	1,1,2-Trichloroethane	0.50	2.73	U	0.38	2.73	ug/m3

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

Report of Analysis

Client:	Tetra Tech, EMI	Date Collected:	04/29/25
Project:	R36900	Date Received:	04/30/25
Client Sample ID:	EBR-P06-SC-IA01-20250428	SDG No.:	Q1927
Lab Sample ID:	Q1927-01	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
VL042476.D	1		05/05/25 15:18	VL050525

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	0.50	4.26	U	0.60	4.26	ug/m3
106-93-4	1,2-Dibromoethane	0.10	0.77	U	0.54	0.77	ug/m3
127-18-4	Tetrachloroethene	0.070	0.47		0.14	0.20	ug/m3
108-90-7	Chlorobenzene	0.50	2.30	U	0.37	2.30	ug/m3
100-41-4	Ethyl Benzene	0.14	0.61	J	0.52	2.17	ug/m3
179601-23-1	m/p-Xylene	0.42	1.82	J	0.91	4.34	ug/m3
95-47-6	o-Xylene	0.16	0.69	J	0.52	2.17	ug/m3
100-42-5	Styrene	0.15	0.64	J	0.47	2.13	ug/m3
75-25-2	Bromoform	0.50	5.17	U	0.62	5.17	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	0.030	0.21	U	0.070	0.21	ug/m3
95-49-8	2-Chlorotoluene	0.50	2.59	U	0.57	2.59	ug/m3
108-67-8	1,3,5-Trimethylbenzene	0.50	2.46	U	0.54	2.46	ug/m3
95-63-6	1,2,4-Trimethylbenzene	0.50	2.46	U	0.39	2.46	ug/m3
541-73-1	1,3-Dichlorobenzene	0.50	3.01	U	0.48	3.01	ug/m3
106-46-7	1,4-Dichlorobenzene	0.50	3.01	U	0.30	3.01	ug/m3
95-50-1	1,2-Dichlorobenzene	0.50	3.01	U	0.48	3.01	ug/m3
120-82-1	1,2,4-Trichlorobenzene	0.50	3.71	U	0.67	3.71	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	0.50	5.33	U	0.96	5.33	ug/m3
106-99-0	1,3-Butadiene	0.50	1.11	U	0.29	1.11	ug/m3
91-20-3	Naphthalene	0.10	0.52	U	0.42	0.52	ug/m3
622-96-8	4-Ethyltoluene	0.50	2.46	U	0.59	2.46	ug/m3
110-54-3	Hexane	0.24	0.85	J	0.39	1.76	ug/m3
107-05-1	Allyl Chloride	0.50	1.57	U	0.47	1.57	ug/m3
123-91-1	1,4-Dioxane	0.50	1.80	U	0.76	1.80	ug/m3
80-62-6	Methyl Methacrylate	0.50	2.05	U	0.37	2.05	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	10.1			65 - 135	101%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	74500		2.787			
540-36-3	1,4-Difluorobenzene	205000		3.962			
3114-55-4	Chlorobenzene-d5	171000		8.881			

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

Report of Analysis

Client:	Tetra Tech, EMI	Date Collected:	04/29/25
Project:	R36900	Date Received:	04/30/25
Client Sample ID:	EBR-P06-SC-IA01-20250428	SDG No.:	Q1927
Lab Sample ID:	Q1927-01	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
VL042476.D	1		05/05/25 15:18	VL050525

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\VL050525\
Data File : VL042476.D
Acq On : 05 May 2025 15:18
Operator : SY/MD
Sample : Q1927-01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 06 03:55:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri May 02 03:16:31 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
EBR-P06-SC-IA01-20250428

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.787	49	74533	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.962	114	204912	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.881	117	170942	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.377	95	159284	10.050	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 100.500%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.499	85	5767	0.468	ppbv		96
3) Chlorodifluoromethane	1.476	51	2908m	0.223	ppbv		
4) Chloromethane	1.534	50	3033	0.588	ppbv		99
9) Propene	1.486	41	5733m	1.344	ppbv		
11) Trichlorofluoromethane	1.877	101	2879	0.253	ppbv	#	81
13) Ethanol	1.722	45	15590	18.011	ppbv	#	37
15) Acetone	1.835	43	173519	12.753	ppbv		99
19) Isopropyl Alcohol	1.887	45	9588	1.273	ppbv	#	1
20) Methylene Chloride	2.062	84	5214	1.275	ppbv		95
26) Hexane	2.822	57	2264m	0.239	ppbv		
34) 2-Butanone	2.564	43	9066	0.612	ppbv	#	88
35) Carbon Tetrachloride	3.764	117	1432m	0.077	ppbv		
52) Tetrachloroethene	8.224	164	544m	0.074	ppbv		
53) Toluene	6.936	91	7400m	0.362	ppbv		
58) Ethyl Benzene	9.360	91	3994m	0.140	ppbv		
59) m/p-Xylene	9.532	91	10146m	0.424	ppbv		
60) o-Xylene	9.962	91	3875m	0.162	ppbv		
61) Styrene	9.865	104	1304m	0.146	ppbv		

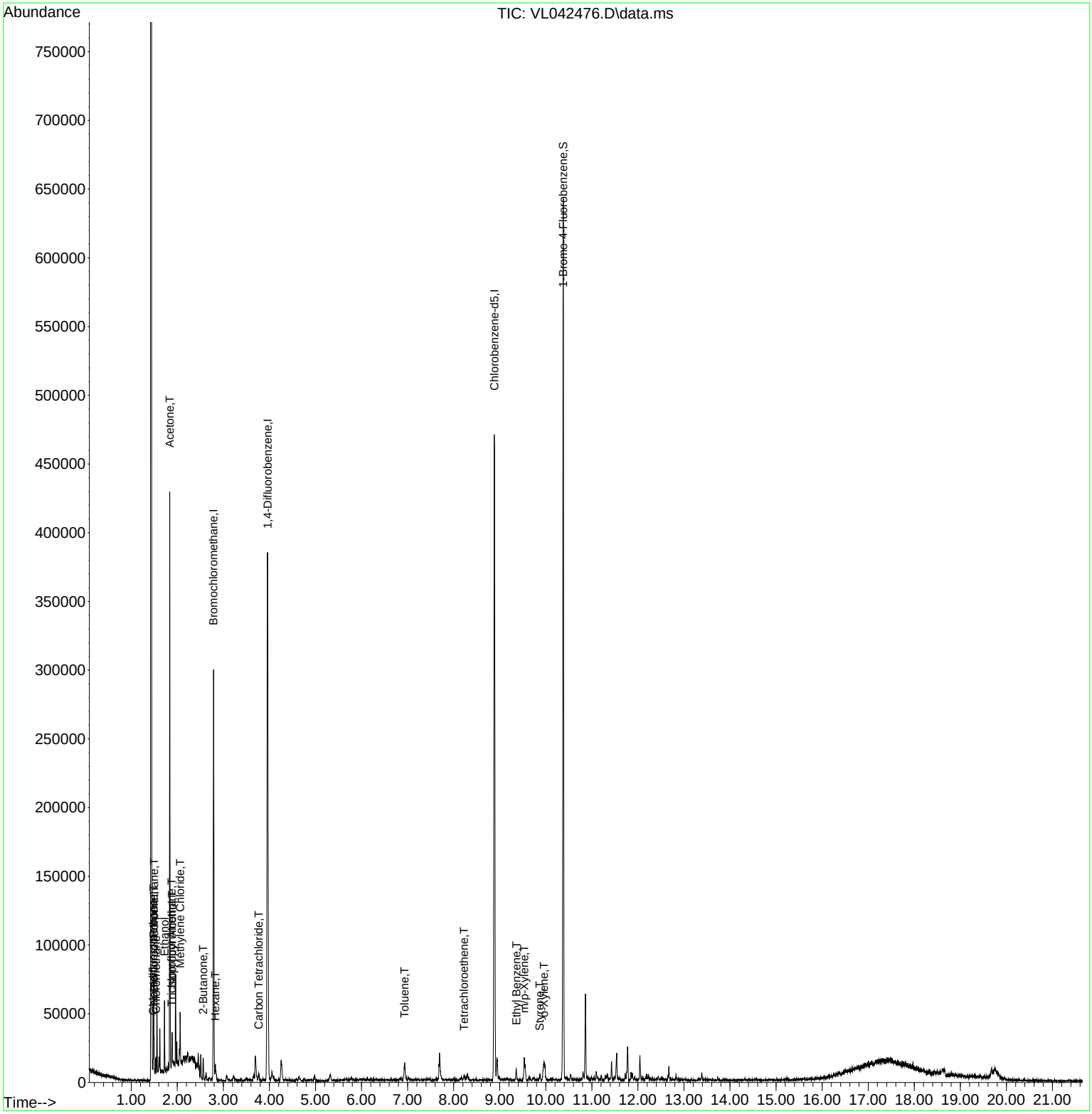
(#) = qualifier out of range (m) = manual integration (+) = signals summed

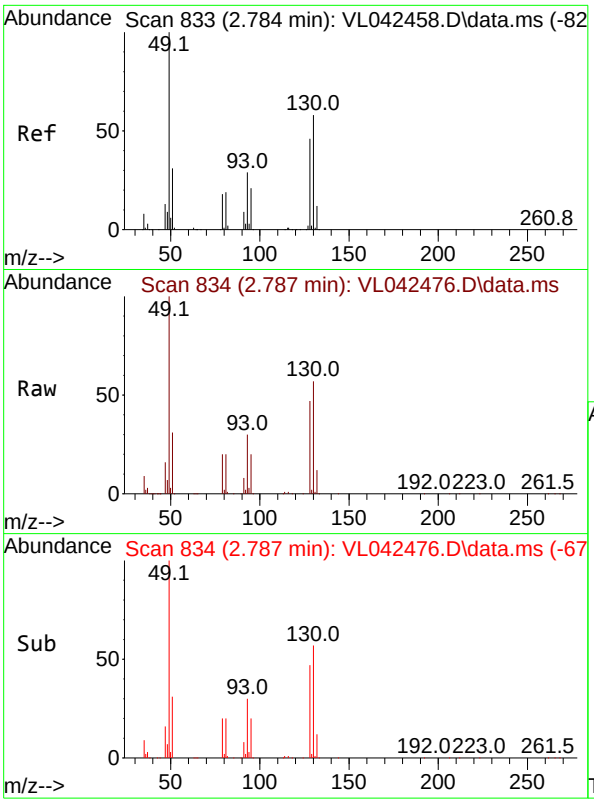
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050525\
Data File : VL042476.D
Acq On : 05 May 2025 15:18
Operator : SY/MD
Sample : Q1927-01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 06 03:55:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri May 02 03:16:31 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
EBR-P06-SC-IA01-20250428

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042476.D
Acq: 05 May 2025 15:18

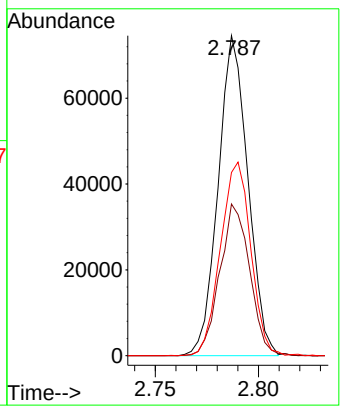
Tgt Ion: 49 Resp: 7453

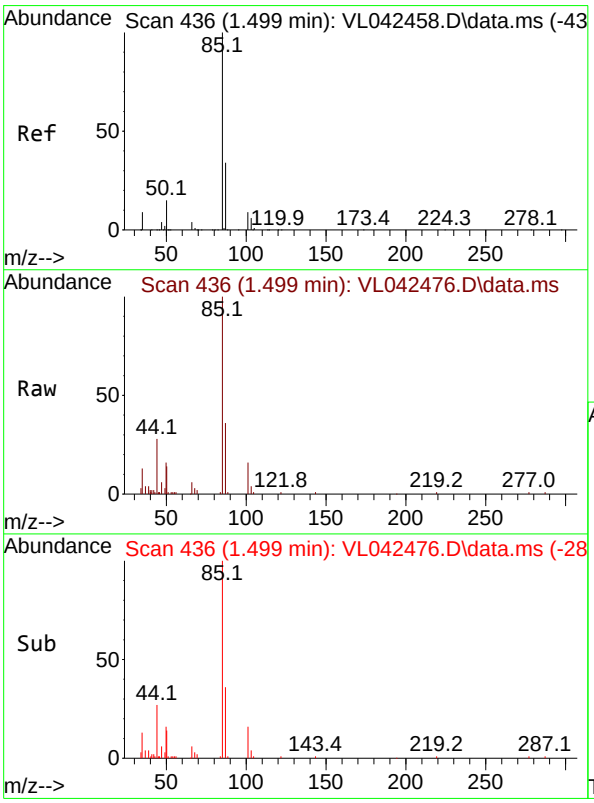
Ion	Ratio	Lower	Upper
49	100		
128	47.7	23.3	69.9
130	62.0	29.5	88.6

Instrument :
MSVOA_L
ClientSampleId :
EBR-P06-SC-IA01-20250428

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

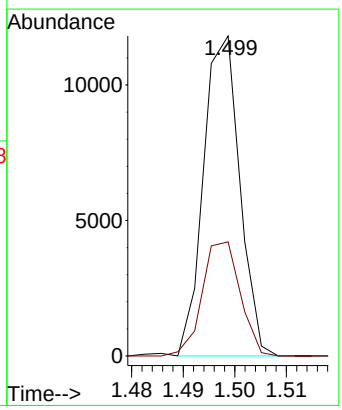


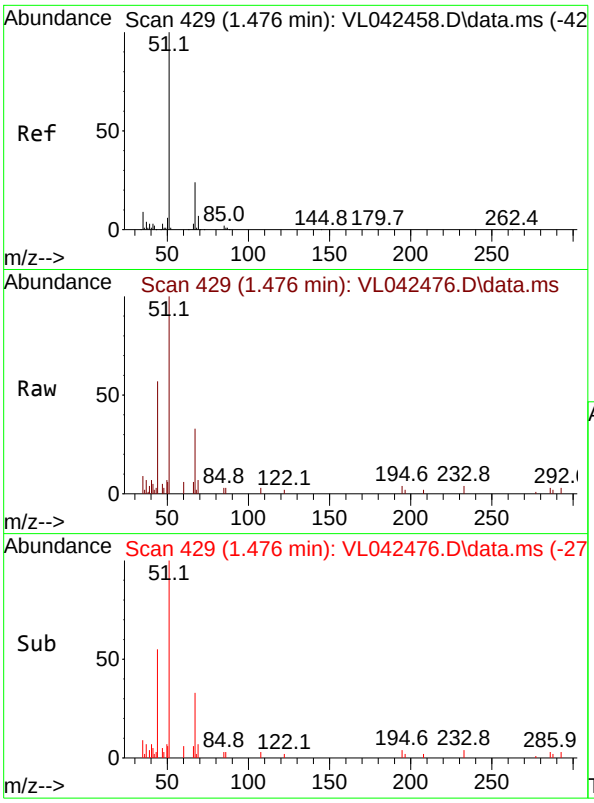


#2
Dichlorodifluoromethane
Concen: 0.468 ppbv
RT: 1.499 min Scan# 436
Delta R.T. -0.000 min
Lab File: VL042476.D
Acq: 05 May 2025 15:18

Tgt Ion: 85 Resp: 5767

Ion	Ratio	Lower	Upper
85	100		
87	35.6	26.9	40.3





#3
Chlorodifluoromethane
Concen: 0.223 ppbv m
RT: 1.476 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042476.D
Acq: 05 May 2025 15:18

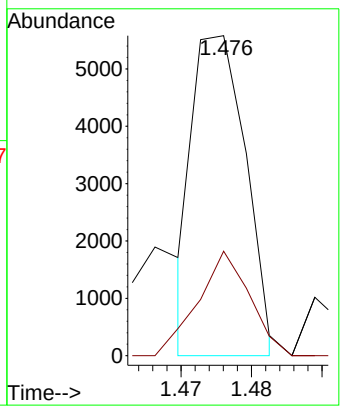
Tgt Ion: 51 Resp: 290

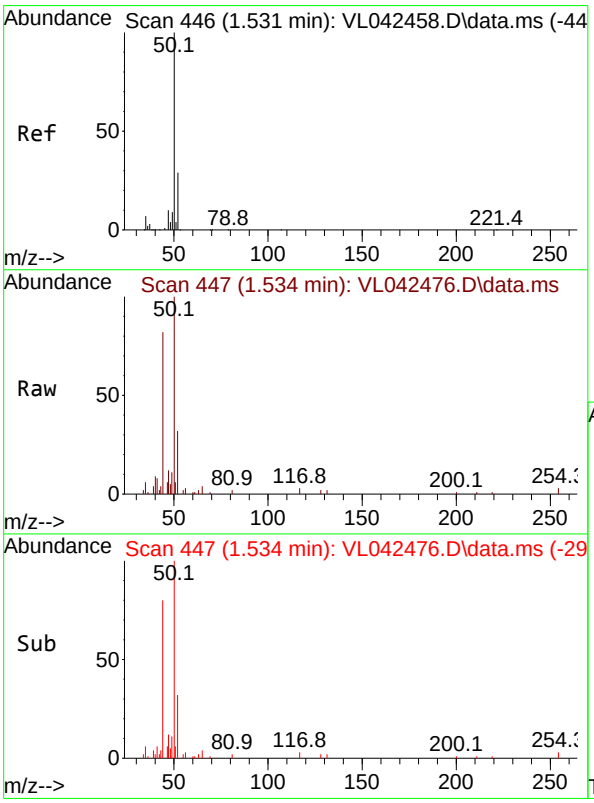
Ion	Ratio	Lower	Upper
51	100		
67	32.0	18.4	27.6

Instrument :
MSVOA_L
ClientSampleId :
EBR-P06-SC-IA01-20250428

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

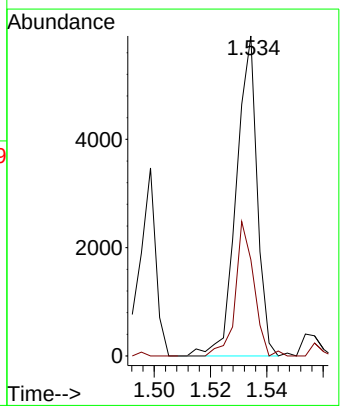


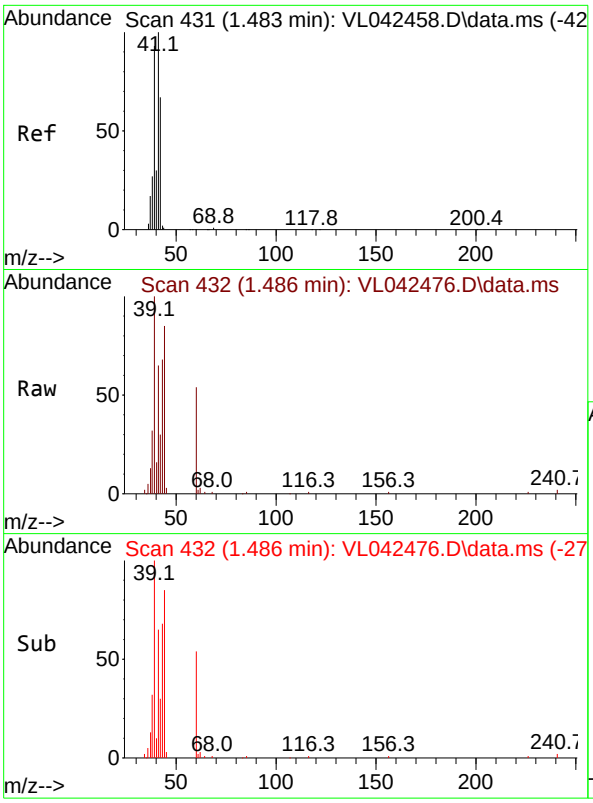


#4
Chloromethane
Concen: 0.588 ppbv
RT: 1.534 min Scan# 447
Delta R.T. 0.003 min
Lab File: VL042476.D
Acq: 05 May 2025 15:18

Tgt Ion: 50 Resp: 3033

Ion	Ratio	Lower	Upper
50	100		
52	30.1	23.5	35.3

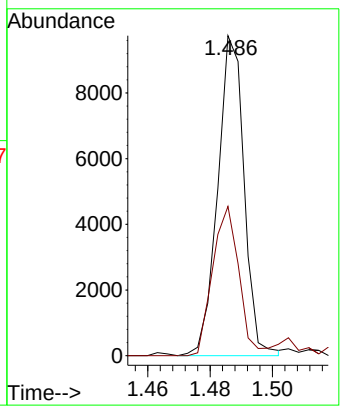




#9
Propene
Concen: 1.344 ppbv m
RT: 1.486 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL042476.D
Acq: 05 May 2025 15:18

Tgt Ion: 41 Resp: 573

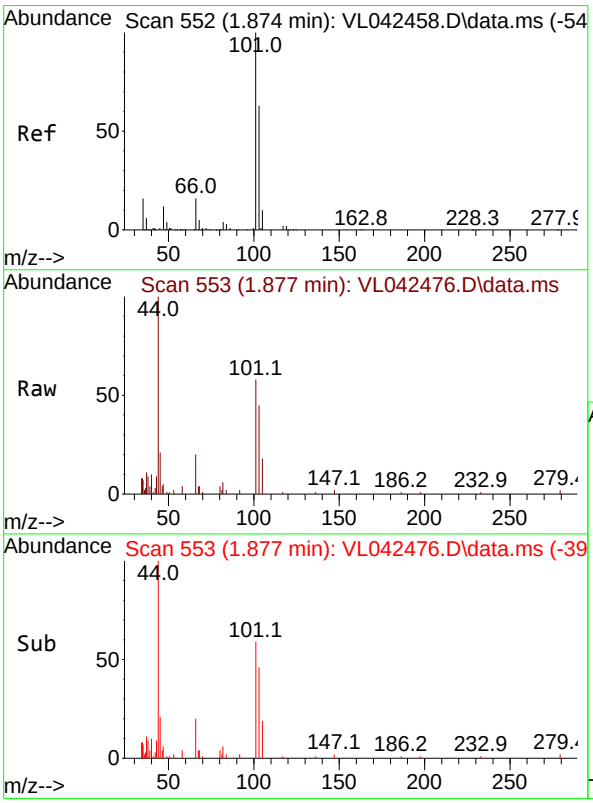
Ion	Ratio	Lower	Upper
41	100		
42	36.2	54.3	81.5#



Instrument :
MSVOA_L
ClientSampleId :
EBR-P06-SC-IA01-20250428

Manual Integrations
APPROVED

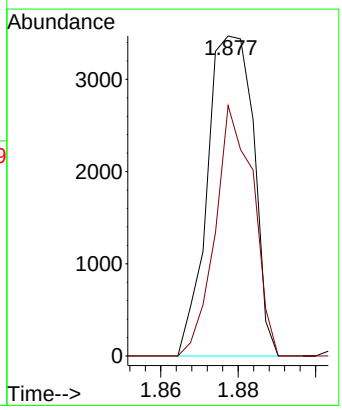
Reviewed By :Semsettin Yesilyurt 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

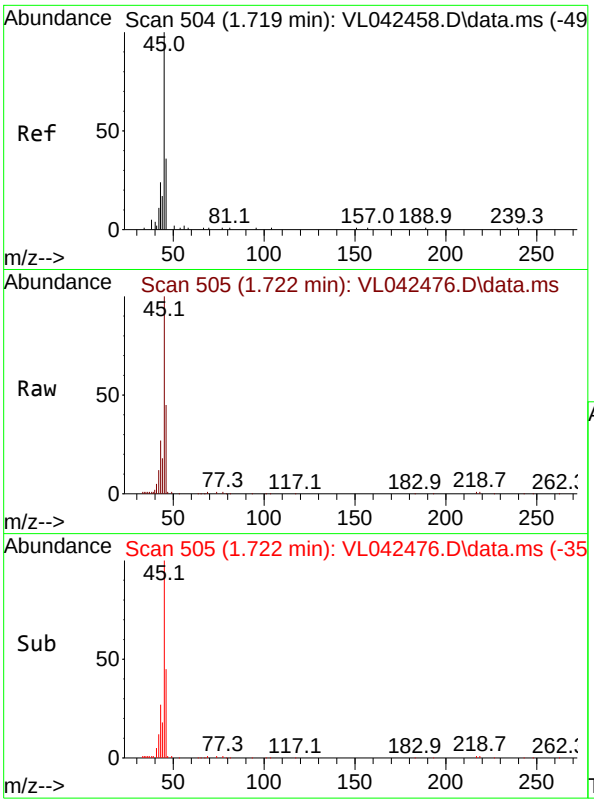


#11
Trichlorofluoromethane
Concen: 0.253 ppbv
RT: 1.877 min Scan# 553
Delta R.T. 0.003 min
Lab File: VL042476.D
Acq: 05 May 2025 15:18

Tgt Ion:101 Resp: 2879

Ion	Ratio	Lower	Upper
101	100		
103	78.3	50.6	76.0#





#13
Ethanol
Concen: 18.011 ppbv
RT: 1.722 min Scan# 5(
Delta R.T. 0.003 min
Lab File: VL042476.D
Acq: 05 May 2025 15:18

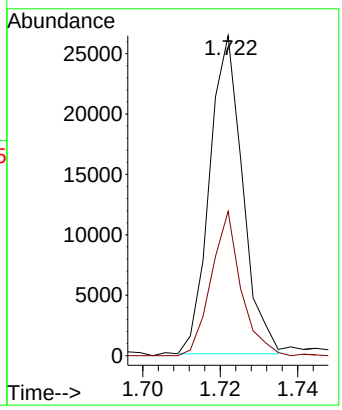
Tgt Ion: 45 Resp: 1559(

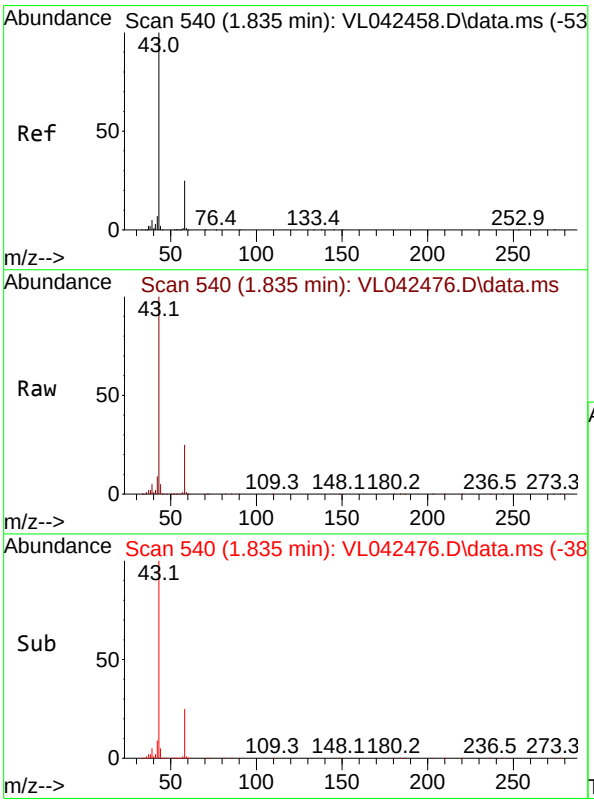
Ion	Ratio	Lower	Upper
45	100		
46	0.0	15.3	61.1#

Instrument :
MSVOA_L
ClientSampleId :
EBR-P06-SC-IA01-20250428

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

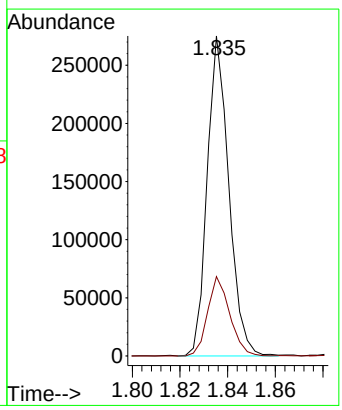


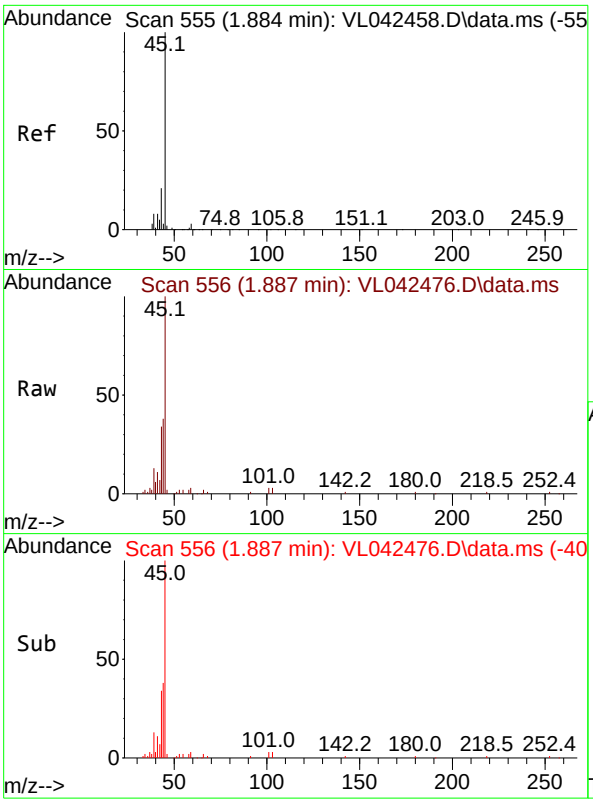


#15
Acetone
Concen: 12.753 ppbv
RT: 1.835 min Scan# 540
Delta R.T. -0.000 min
Lab File: VL042476.D
Acq: 05 May 2025 15:18

Tgt Ion: 43 Resp: 173519

Ion	Ratio	Lower	Upper
43	100		
58	25.5	19.8	29.8

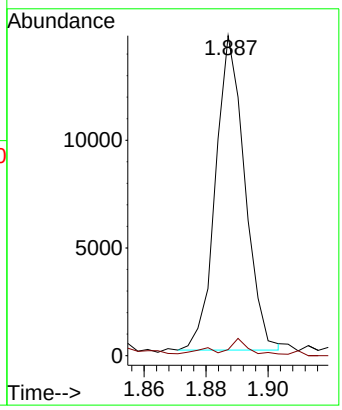




#19
Isopropyl Alcohol
Concen: 1.273 ppbv
RT: 1.887 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042476.D
Acq: 05 May 2025 15:18

Tgt Ion: 45 Resp: 958

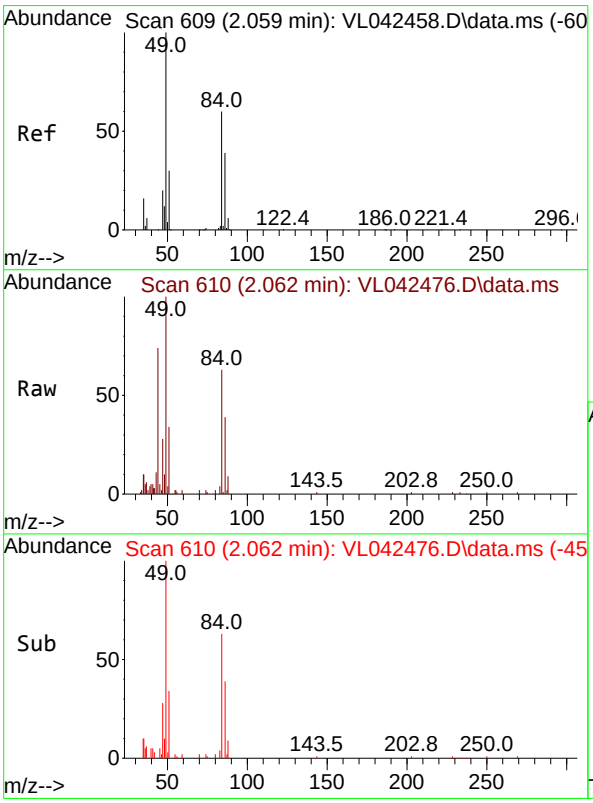
Ion	Ratio	Lower	Upper
45	100		
58	460.8	1.6	2.4



Instrument :
MSVOA_L
ClientSampleId :
EBR-P06-SC-IA01-20250428

Manual Integrations
APPROVED

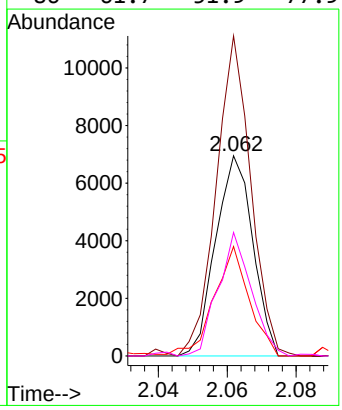
Reviewed By :Semsettin Yesilyurt 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

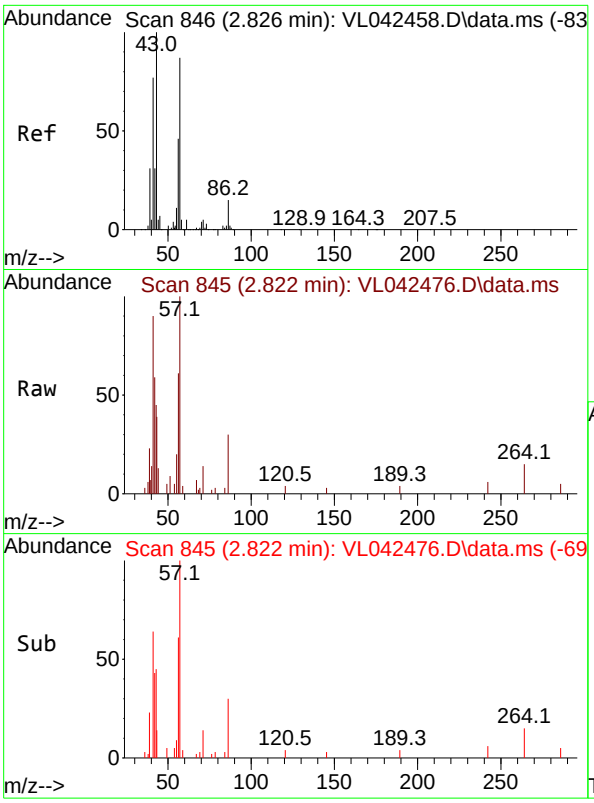


#20
Methylene Chloride
Concen: 1.275 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.003 min
Lab File: VL042476.D
Acq: 05 May 2025 15:18

Tgt Ion: 84 Resp: 5214

Ion	Ratio	Lower	Upper
84	100		
49	159.9	133.9	200.9
51	54.7	41.0	61.6
86	61.7	51.9	77.9

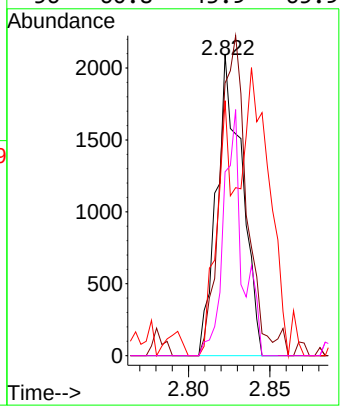




#26
Hexane
Concen: 0.239 ppbv m
RT: 2.822 min Scan# 84
Delta R.T. -0.003 min
Lab File: VL042476.D
Acq: 05 May 2025 15:18

Tgt Ion: 57 Resp: 226

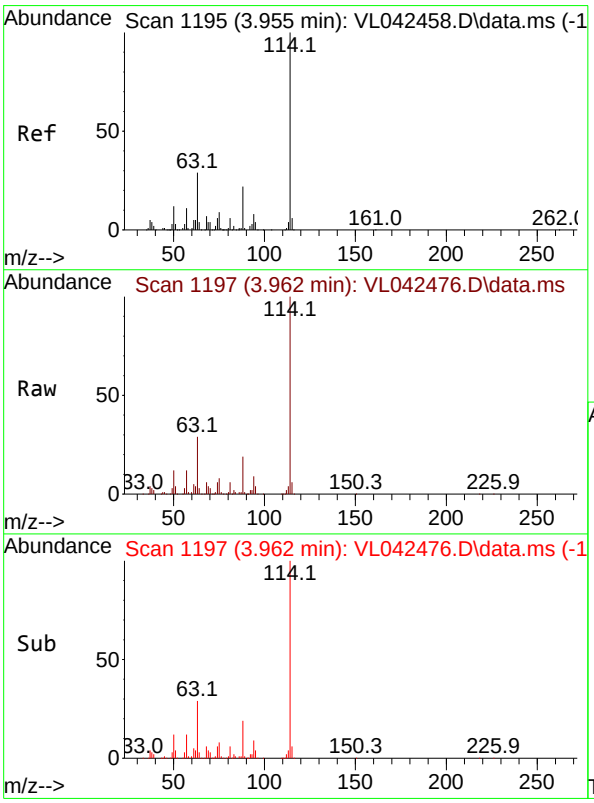
Ion	Ratio	Lower	Upper
57	100		
41	117.1	77.8	116.8#
43	162.4	187.0	280.6#
56	60.8	43.9	65.9



Instrument :
MSVOA_L
ClientSampleId :
EBR-P06-SC-IA01-20250428

Manual Integrations
APPROVED

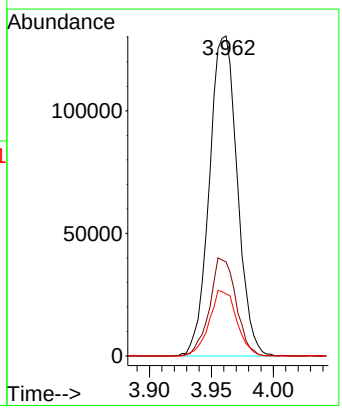
Reviewed By :Semsettin Yesilyurt 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

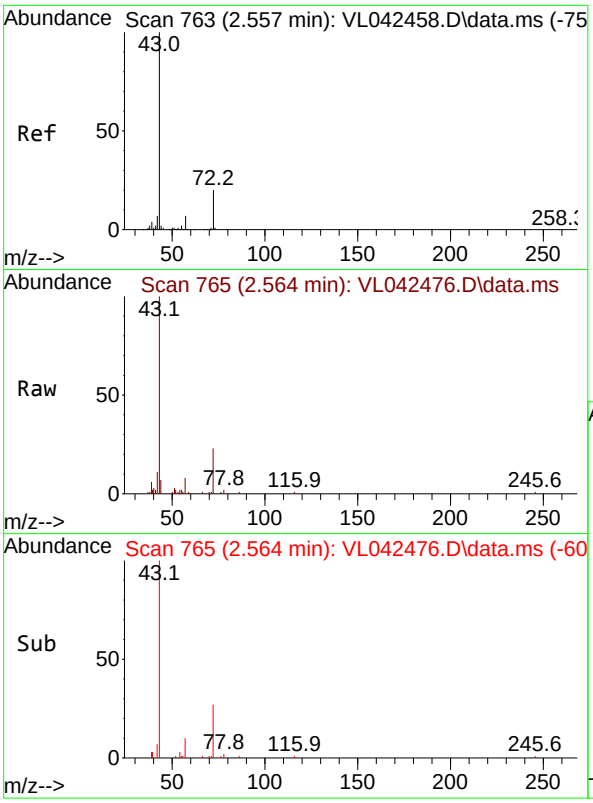


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.962 min Scan# 1197
Delta R.T. 0.006 min
Lab File: VL042476.D
Acq: 05 May 2025 15:18

Tgt Ion:114 Resp: 204912

Ion	Ratio	Lower	Upper
114	100		
63	29.1	23.1	34.7
88	20.1	16.1	24.1

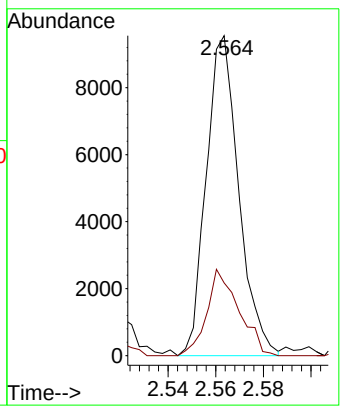




#34
2-Butanone
Concen: 0.612 ppbv
RT: 2.564 min Scan# 7
Delta R.T. 0.006 min
Lab File: VL042476.D
Acq: 05 May 2025 15:18

Tgt Ion: 43 Resp: 906

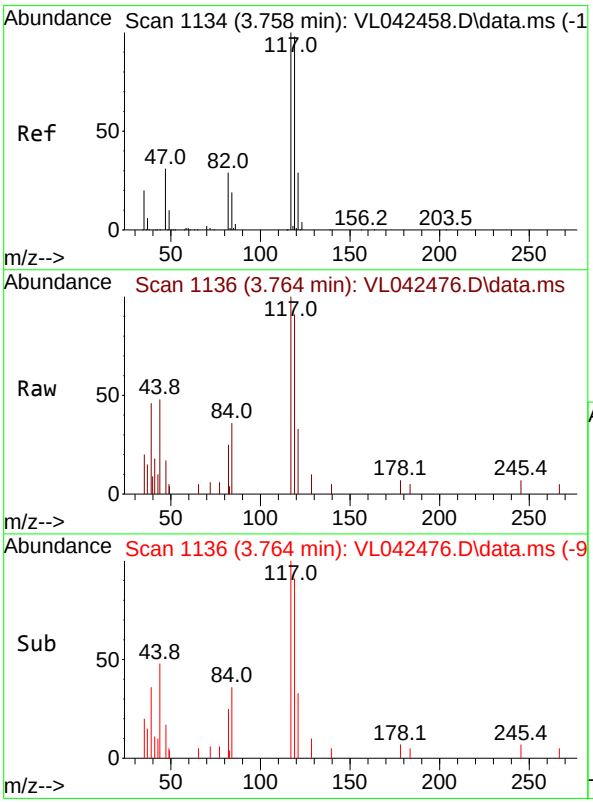
Ion	Ratio	Lower	Upper
43	100		
72	26.7	16.7	25.1



Instrument :
MSVOA_L
ClientSampleId :
EBR-P06-SC-IA01-20250428

Manual Integrations
APPROVED

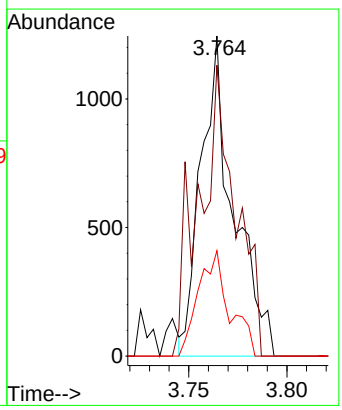
Reviewed By :Semsettin Yesilyurt 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

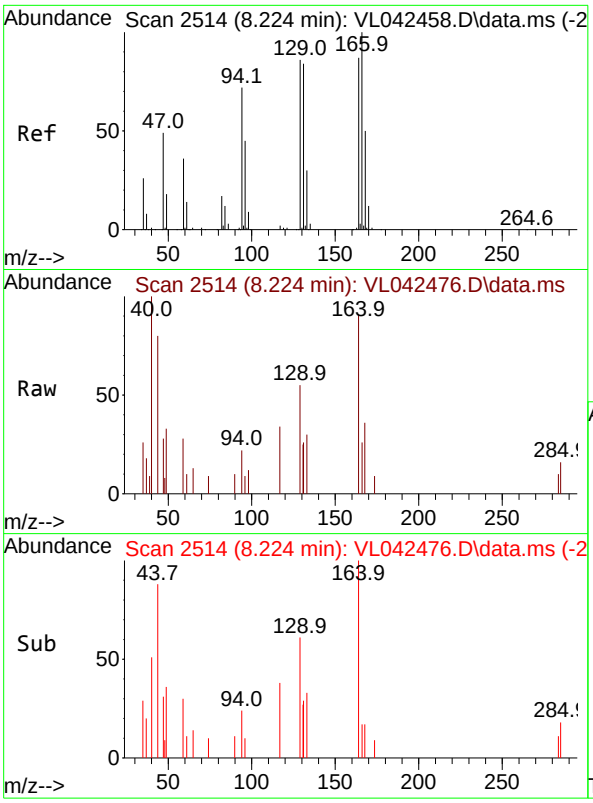


#35
Carbon Tetrachloride
Concen: 0.077 ppbv m
RT: 3.764 min Scan# 1136
Delta R.T. 0.006 min
Lab File: VL042476.D
Acq: 05 May 2025 15:18

Tgt Ion:117 Resp: 1432

Ion	Ratio	Lower	Upper
117	100		
119	90.8	78.1	117.1
121	32.9	23.0	34.6

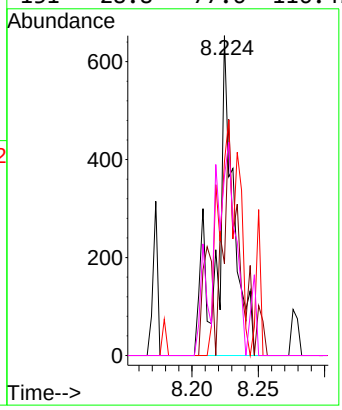




#52
Tetrachloroethene
Concen: 0.074 ppbv m
RT: 8.224 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL042476.D
Acq: 05 May 2025 15:18

Tgt Ion:164 Resp: 54

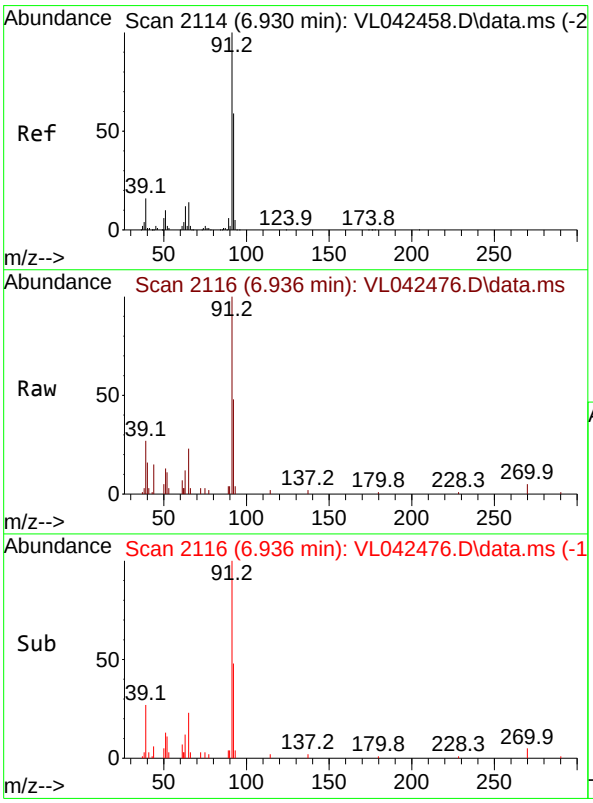
Ion	Ratio	Lower	Upper
164	100		
166	28.6	91.6	137.4#
129	60.6	79.0	118.4#
131	28.8	77.6	116.4#



Instrument :
MSVOA_L
ClientSampleId :
EBR-P06-SC-IA01-20250428

Manual Integrations
APPROVED

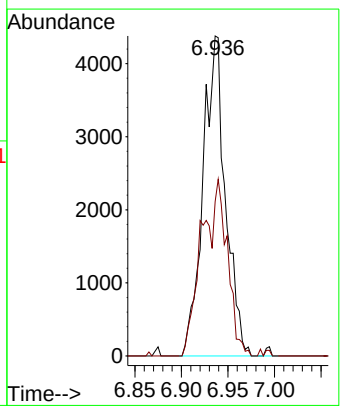
Reviewed By :Semsettin Yesilyurt 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

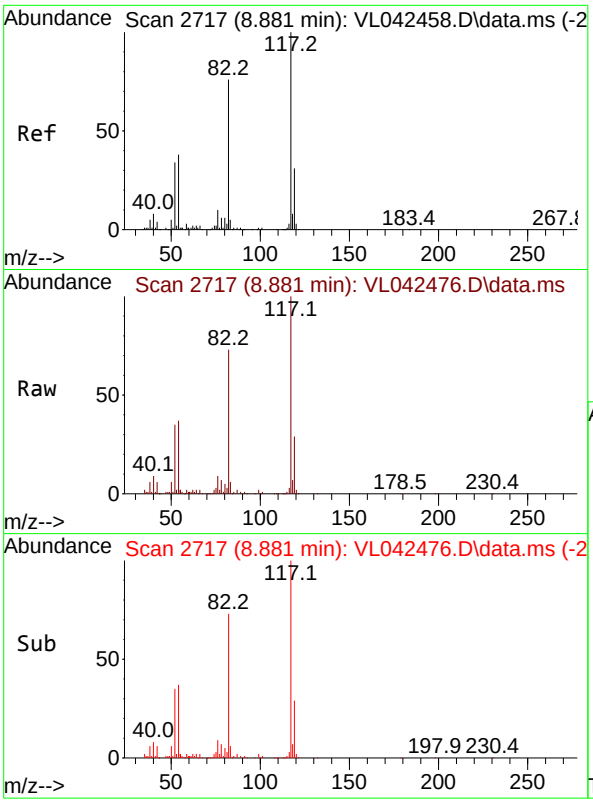


#53
Toluene
Concen: 0.362 ppbv m
RT: 6.936 min Scan# 2116
Delta R.T. 0.006 min
Lab File: VL042476.D
Acq: 05 May 2025 15:18

Tgt Ion: 91 Resp: 7400

Ion	Ratio	Lower	Upper
91	100		
92	63.9	47.9	71.9

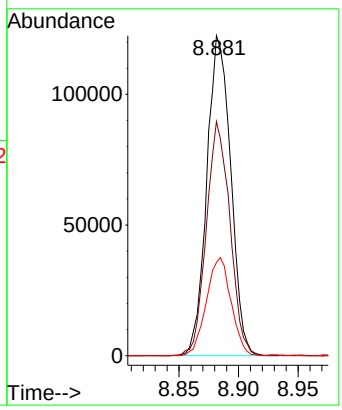




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.881 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL042476.D
Acq: 05 May 2025 15:18

Tgt Ion:117 Resp: 17094

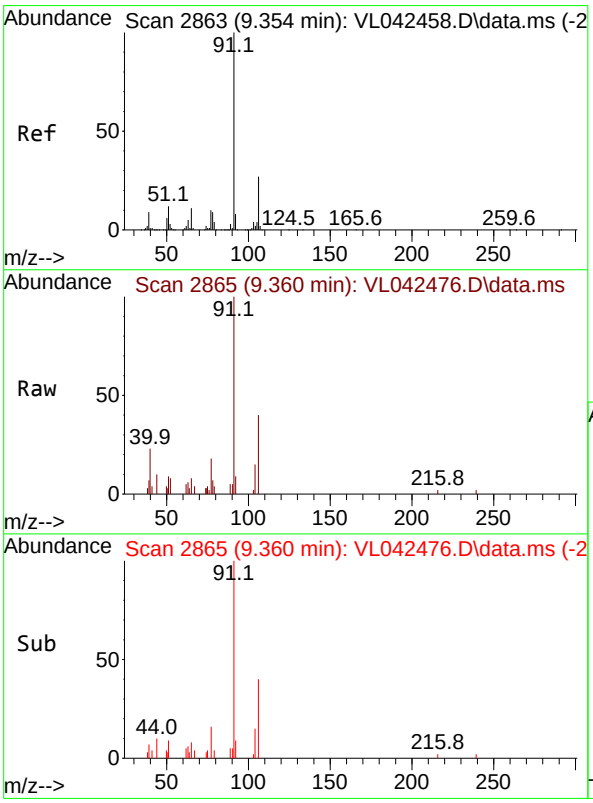
Ion	Ratio	Lower	Upper
117	100		
82	72.1	63.5	95.3
119	31.6	25.8	38.8



Instrument :
MSVOA_L
ClientSampleId :
EBR-P06-SC-IA01-20250428

Manual Integrations
APPROVED

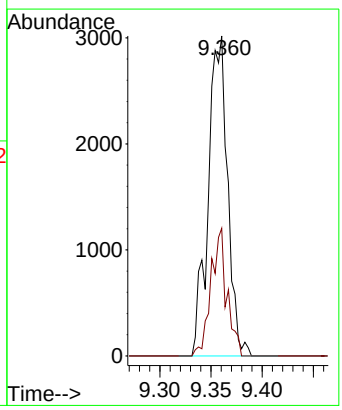
Reviewed By :Semsettin Yesilyurt 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

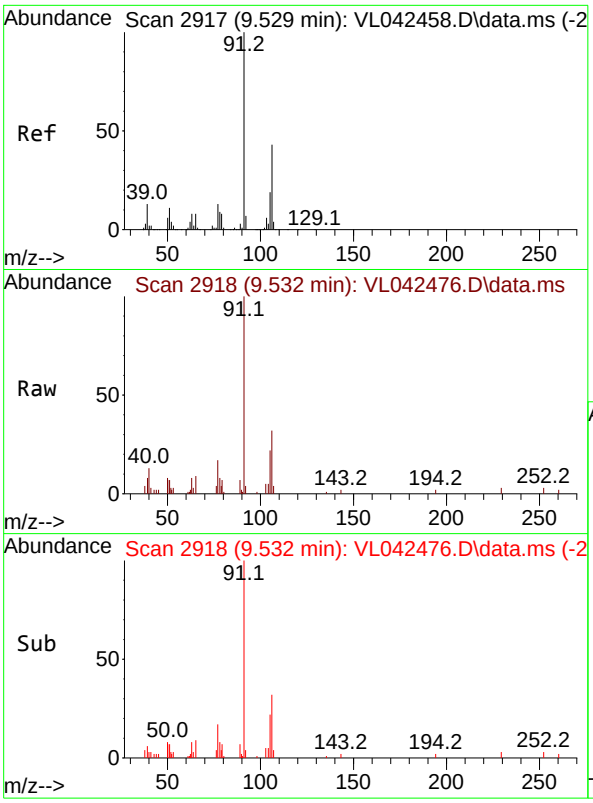


#58
Ethyl Benzene
Concen: 0.140 ppbv m
RT: 9.360 min Scan# 2865
Delta R.T. 0.006 min
Lab File: VL042476.D
Acq: 05 May 2025 15:18

Tgt Ion: 91 Resp: 3994

Ion	Ratio	Lower	Upper
91	100		
106	39.9	21.9	32.9#





#59
m/p-Xylene
Concen: 0.424 ppbv m
RT: 9.532 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042476.D
Acq: 05 May 2025 15:18

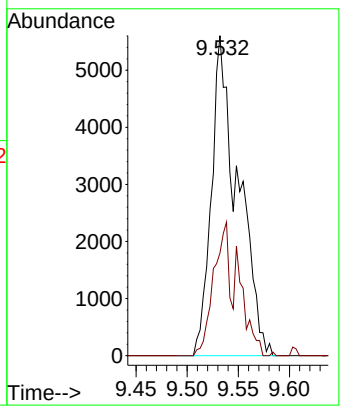
Tgt Ion: 91 Resp: 1014

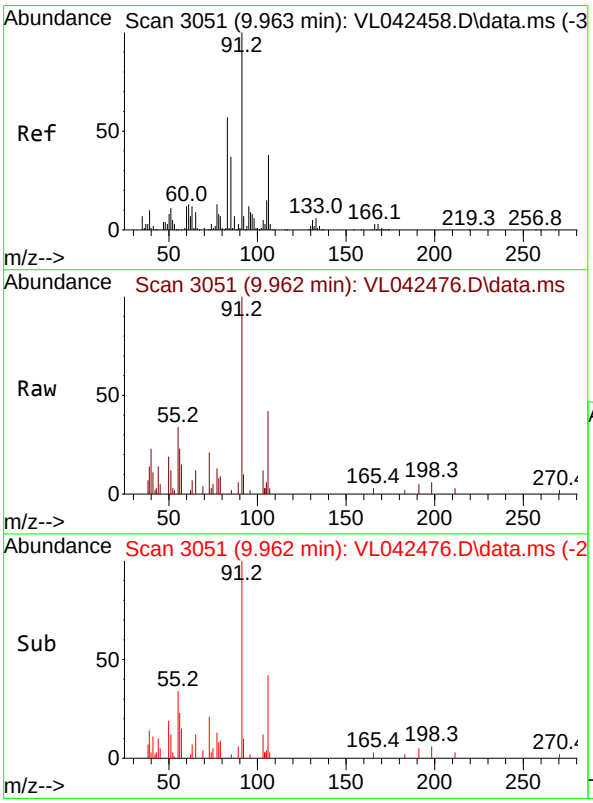
Ion	Ratio	Lower	Upper
91	100		
106	37.6	34.2	51.2

Instrument :
MSVOA_L
ClientSampleId :
EBR-P06-SC-IA01-20250428

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

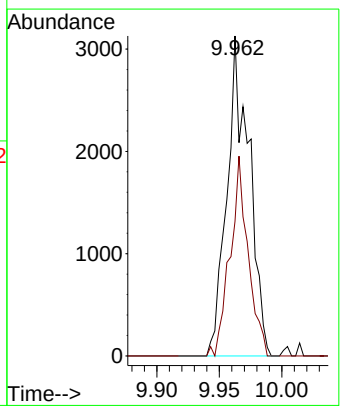


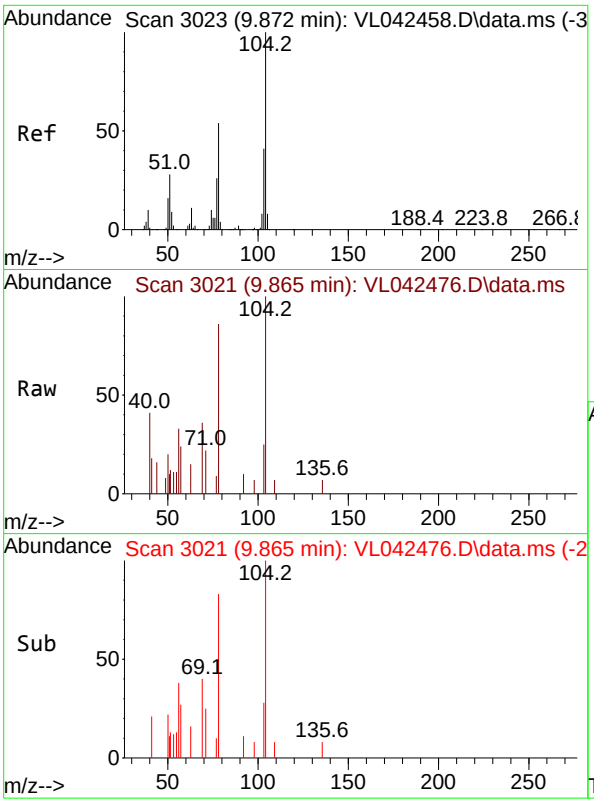


#60
o-Xylene
Concen: 0.162 ppbv m
RT: 9.962 min Scan# 3051
Delta R.T. -0.000 min
Lab File: VL042476.D
Acq: 05 May 2025 15:18

Tgt Ion: 91 Resp: 3875

Ion	Ratio	Lower	Upper
91	100		
106	98.5	20.1	60.2#





#61
Styrene
Concen: 0.146 ppbv m
RT: 9.865 min Scan# 3
Delta R.T. -0.006 min
Lab File: VL042476.D
Acq: 05 May 2025 15:18

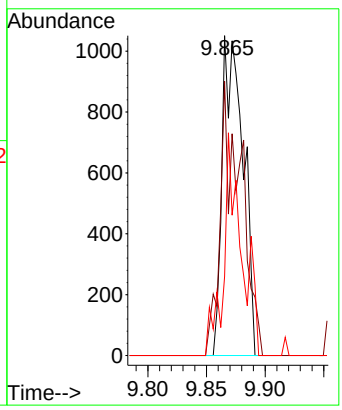
Tgt Ion:104 Resp: 130

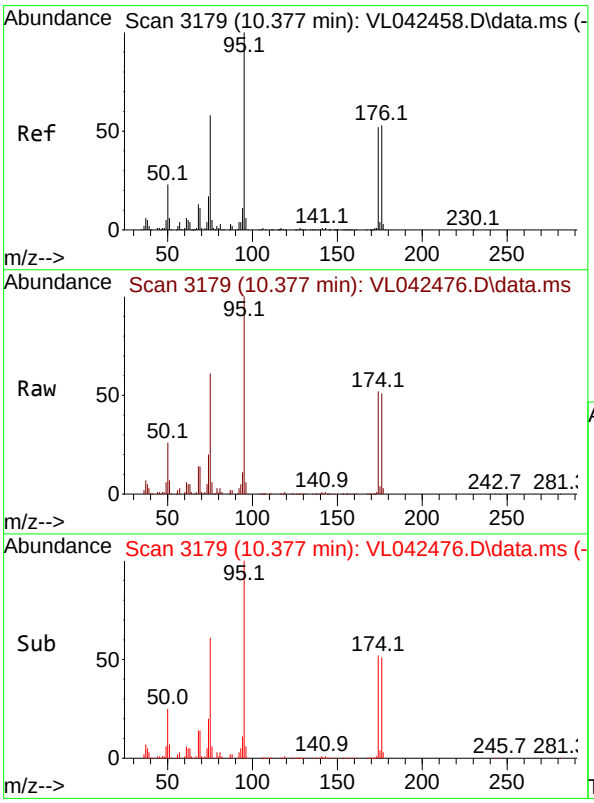
Ion	Ratio	Lower	Upper
104	100		
78	0.0	46.9	70.3#
103	59.3	36.6	55.0#

Instrument :
MSVOA_L
ClientSampleId :
EBR-P06-SC-IA01-20250428

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

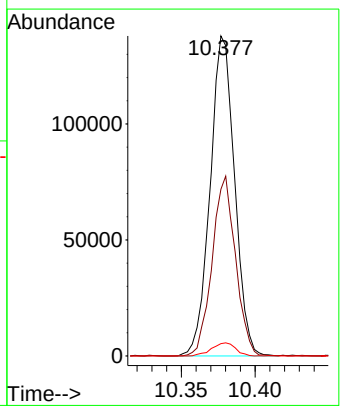




#68
1-Bromo-4-Fluorobenzene
Concen: 10.050 ppbv
RT: 10.377 min Scan# 3179
Delta R.T. -0.000 min
Lab File: VL042476.D
Acq: 05 May 2025 15:18

Tgt Ion: 95 Resp: 159284

Ion	Ratio	Lower	Upper
95	100		
174	53.7	42.7	64.1
175	4.1	3.6	5.4



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

Report of Analysis

Client:	Tetra Tech, EMI	Date Collected:	04/29/25
Project:	R36900	Date Received:	04/30/25
Client Sample ID:	EBR-P03-SC-IA01-20250428	SDG No.:	Q1927
Lab Sample ID:	Q1927-02	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
VL042479.D	1		05/05/25 16:59	VL050525

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.54	2.67		1.04	2.47	ug/m3
74-87-3	Chloromethane	0.58	1.20		0.21	1.03	ug/m3
75-01-4	Vinyl Chloride	0.030	0.080	U	0.030	0.080	ug/m3
74-83-9	Bromomethane	0.50	1.94	U	0.54	1.94	ug/m3
75-00-3	Chloroethane	0.50	1.32	U	0.45	1.32	ug/m3
109-99-9	Tetrahydrofuran	0.50	1.47	U	0.38	1.47	ug/m3
75-69-4	Trichlorofluoromethane	0.35	1.97	J	0.90	2.81	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	0.50	3.83	U	1.23	3.83	ug/m3
76-14-2	Dichlorotetrafluoroethane	0.50	3.49	U	0.63	3.49	ug/m3
75-65-0	tert-Butyl alcohol	0.50	1.52	U	0.58	1.52	ug/m3
142-82-5	Heptane	0.50	2.05	U	0.45	2.05	ug/m3
75-35-4	1,1-Dichloroethene	0.50	1.98	U	0.56	1.98	ug/m3
67-64-1	Acetone	6.70	15.9		0.57	1.19	ug/m3
75-15-0	Carbon Disulfide	0.50	1.56	U	0.50	1.56	ug/m3
1634-04-4	Methyl tert-Butyl Ether	0.50	1.80	U	0.43	1.80	ug/m3
75-09-2	Methylene Chloride	0.61	2.12		0.66	1.74	ug/m3
156-60-5	trans-1,2-Dichloroethene	0.50	1.98	U	0.75	1.98	ug/m3
75-34-3	1,1-Dichloroethane	0.50	2.02	U	0.53	2.02	ug/m3
110-82-7	Cyclohexane	0.50	1.72	U	0.76	1.72	ug/m3
78-93-3	2-Butanone	0.59	1.74		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	0.50	1.98	U	0.36	1.98	ug/m3
67-66-3	Chloroform	0.50	2.44	U	0.39	2.44	ug/m3
71-55-6	1,1,1-Trichloroethane	0.030	0.16	U	0.050	0.16	ug/m3
540-84-1	2,2,4-Trimethylpentane	0.50	2.34	U	0.47	2.34	ug/m3
71-43-2	Benzene	0.11	0.35	J	0.29	1.60	ug/m3
107-06-2	1,2-Dichloroethane	0.50	2.02	U	0.36	2.02	ug/m3
79-01-6	Trichloroethene	0.030	0.16	U	0.11	0.16	ug/m3
78-87-5	1,2-Dichloropropane	0.50	2.31	U	0.51	2.31	ug/m3
75-27-4	Bromodichloromethane	0.50	3.35	U	0.54	3.35	ug/m3
108-10-1	4-Methyl-2-Pentanone	0.50	2.05	U	0.37	2.05	ug/m3
108-88-3	Toluene	0.80	3.01		0.41	1.88	ug/m3
10061-02-6	t-1,3-Dichloropropene	0.50	2.27	U	0.27	2.27	ug/m3
10061-01-5	cis-1,3-Dichloropropene	0.50	2.27	U	0.27	2.27	ug/m3
79-00-5	1,1,2-Trichloroethane	0.50	2.73	U	0.38	2.73	ug/m3

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

Report of Analysis

Client:	Tetra Tech, EMI	Date Collected:	04/29/25
Project:	R36900	Date Received:	04/30/25
Client Sample ID:	EBR-P03-SC-IA01-20250428	SDG No.:	Q1927
Lab Sample ID:	Q1927-02	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
VL042479.D	1		05/05/25 16:59	VL050525

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	0.50	4.26	U	0.60	4.26	ug/m3
106-93-4	1,2-Dibromoethane	0.10	0.77	U	0.54	0.77	ug/m3
127-18-4	Tetrachloroethene	0.030	0.20	U	0.14	0.20	ug/m3
108-90-7	Chlorobenzene	0.50	2.30	U	0.37	2.30	ug/m3
100-41-4	Ethyl Benzene	0.50	2.17	U	0.52	2.17	ug/m3
179601-23-1	m/p-Xylene	0.34	1.48	J	0.91	4.34	ug/m3
95-47-6	o-Xylene	0.50	2.17	U	0.52	2.17	ug/m3
100-42-5	Styrene	0.50	2.13	U	0.47	2.13	ug/m3
75-25-2	Bromoform	0.50	5.17	U	0.62	5.17	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	0.030	0.21	U	0.070	0.21	ug/m3
95-49-8	2-Chlorotoluene	0.50	2.59	U	0.57	2.59	ug/m3
108-67-8	1,3,5-Trimethylbenzene	0.50	2.46	U	0.54	2.46	ug/m3
95-63-6	1,2,4-Trimethylbenzene	0.50	2.46	U	0.39	2.46	ug/m3
541-73-1	1,3-Dichlorobenzene	0.50	3.01	U	0.48	3.01	ug/m3
106-46-7	1,4-Dichlorobenzene	0.50	3.01	U	0.30	3.01	ug/m3
95-50-1	1,2-Dichlorobenzene	0.50	3.01	U	0.48	3.01	ug/m3
120-82-1	1,2,4-Trichlorobenzene	0.50	3.71	U	0.67	3.71	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	0.50	5.33	U	0.96	5.33	ug/m3
106-99-0	1,3-Butadiene	0.50	1.11	U	0.29	1.11	ug/m3
91-20-3	Naphthalene	0.10	0.52	U	0.42	0.52	ug/m3
622-96-8	4-Ethyltoluene	0.50	2.46	U	0.59	2.46	ug/m3
110-54-3	Hexane	0.17	0.60	J	0.39	1.76	ug/m3
107-05-1	Allyl Chloride	0.50	1.57	U	0.47	1.57	ug/m3
123-91-1	1,4-Dioxane	0.50	1.80	U	0.76	1.80	ug/m3
80-62-6	Methyl Methacrylate	0.50	2.05	U	0.37	2.05	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	10.4			65 - 135	104%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	69000		2.787			
540-36-3	1,4-Difluorobenzene	193000		3.959			
3114-55-4	Chlorobenzene-d5	162000		8.885			

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

Report of Analysis

Client:	Tetra Tech, EMI	Date Collected:	04/29/25
Project:	R36900	Date Received:	04/30/25
Client Sample ID:	EBR-P03-SC-IA01-20250428	SDG No.:	Q1927
Lab Sample ID:	Q1927-02	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
VL042479.D	1		05/05/25 16:59	VL050525

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\VL050525\
Data File : VL042479.D
Acq On : 05 May 2025 16:59
Operator : SY/MD
Sample : Q1927-02
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 06 01:43:44 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri May 02 03:16:31 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
EBR-P03-SC-IA01-20250428

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.787	49	68950	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.959	114	192895	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.885	117	161884	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.377	95	156074	10.399	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 104.000%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.499	85	6203	0.544	ppbv		99
3) Chlorodifluoromethane	1.476	51	6267m	0.519	ppbv		
4) Chloromethane	1.531	50	2764	0.580	ppbv	#	81
9) Propene	1.489	41	15749m	3.991	ppbv		
11) Trichlorofluoromethane	1.877	101	3702	0.352	ppbv		85
13) Ethanol	1.722	45	69923	87.324	ppbv		98
15) Acetone	1.835	43	83945	6.669	ppbv		94
19) Isopropyl Alcohol	1.887	45	37731m	5.416	ppbv		
20) Methylene Chloride	2.062	84	2323	0.614	ppbv		91
26) Hexane	2.829	57	1523m	0.173	ppbv		
34) 2-Butanone	2.564	43	8223	0.589	ppbv		92
35) Carbon Tetrachloride	3.768	117	1479m	0.084	ppbv		
36) Benzene	3.654	78	1907m	0.105	ppbv		
53) Toluene	6.936	91	15497m	0.804	ppbv		
58) Ethyl Benzene	9.354	91	2768m	0.102	ppbv		
59) m/p-Xylene	9.535	91	7750m	0.342	ppbv		
60) o-Xylene	9.963	91	2307m	0.102	ppbv		

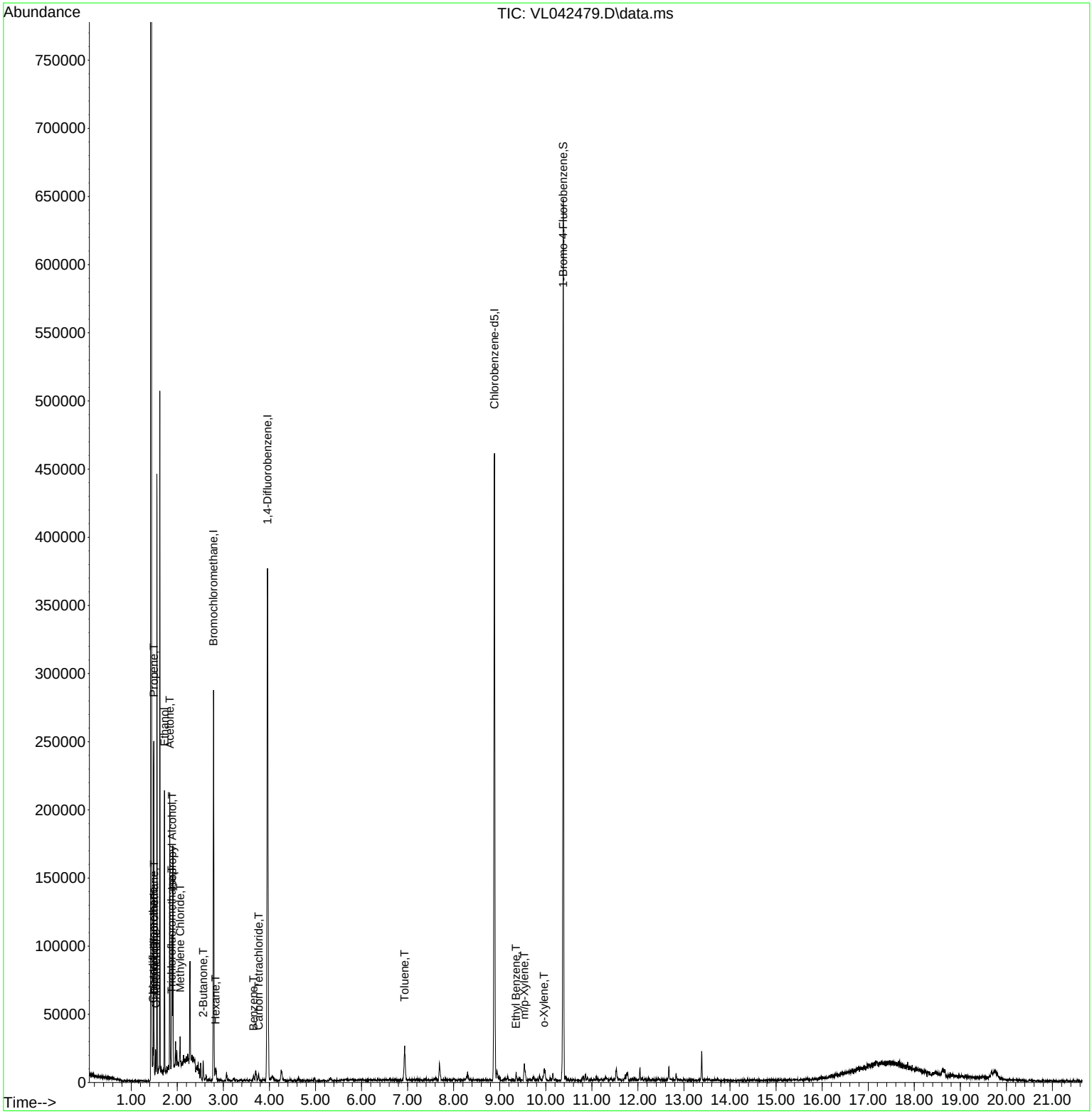
(#) = qualifier out of range (m) = manual integration (+) = signals summed

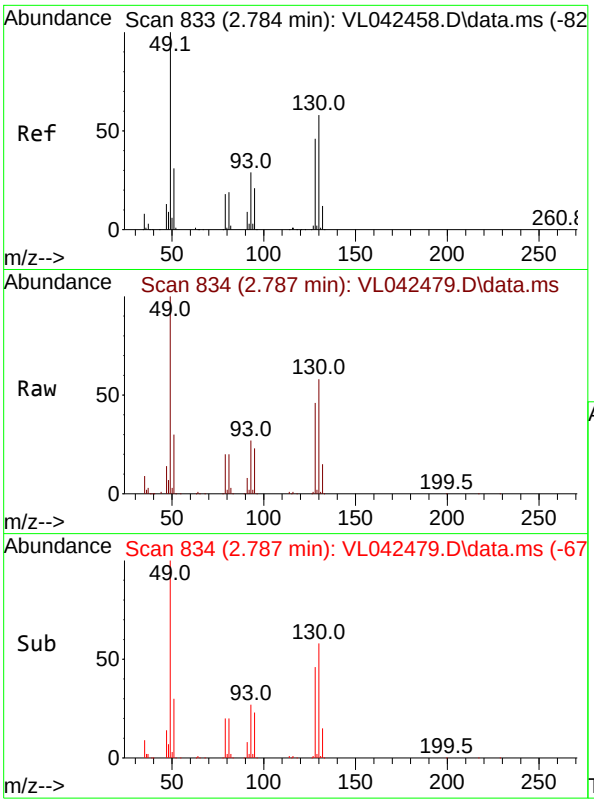
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050525\
Data File : VL042479.D
Acq On : 05 May 2025 16:59
Operator : SY/MD
Sample : Q1927-02
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 06 01:43:44 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri May 02 03:16:31 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
EBR-P03-SC-IA01-20250428

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

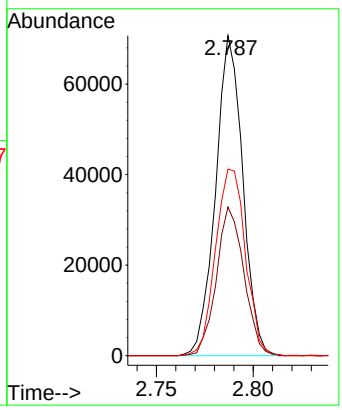




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042479.D
Acq: 05 May 2025 16:59

Tgt Ion: 49 Resp: 6895

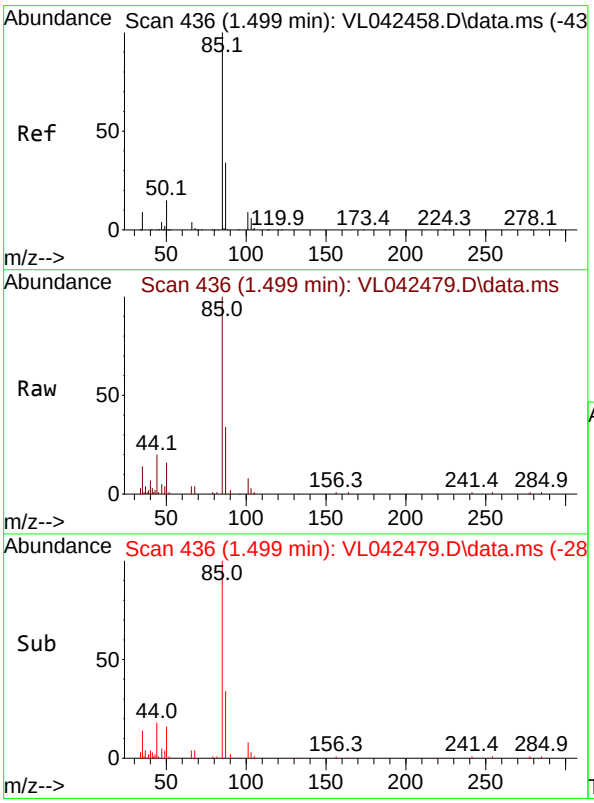
Ion	Ratio	Lower	Upper
49	100		
128	47.1	23.3	69.9
130	64.3	29.5	88.6



Instrument :
MSVOA_L
ClientSampleId :
EBR-P03-SC-IA01-20250428

Manual Integrations APPROVED

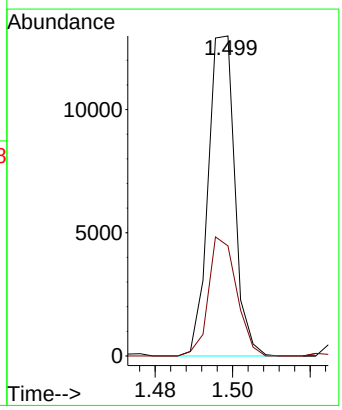
Reviewed By :Semsettin Yesilyurt 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

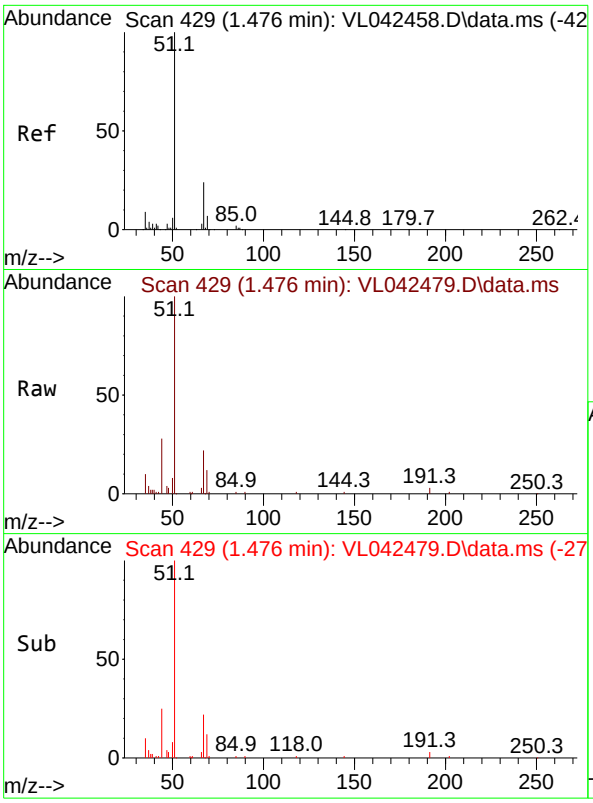


#2
Dichlorodifluoromethane
Concen: 0.544 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.000 min
Lab File: VL042479.D
Acq: 05 May 2025 16:59

Tgt Ion: 85 Resp: 6203

Ion	Ratio	Lower	Upper
85	100		
87	34.4	26.9	40.3

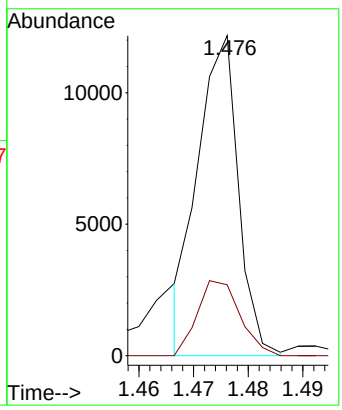




#3
Chlorodifluoromethane
Concen: 0.519 ppbv m
RT: 1.476 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042479.D
Acq: 05 May 2025 16:59

Tgt Ion: 51 Resp: 626

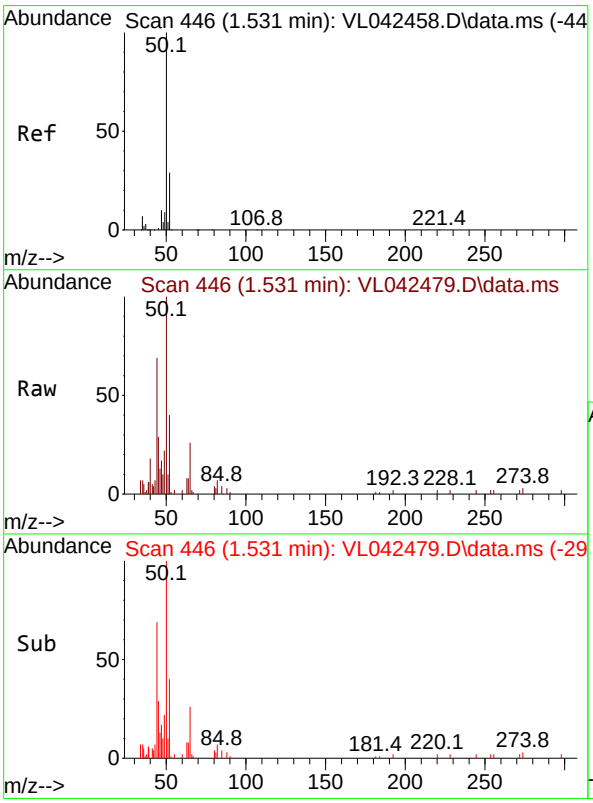
Ion	Ratio	Lower	Upper
51	100		
67	24.9	18.4	27.6



Instrument :
MSVOA_L
ClientSampleId :
EBR-P03-SC-IA01-20250428

Manual Integrations
APPROVED

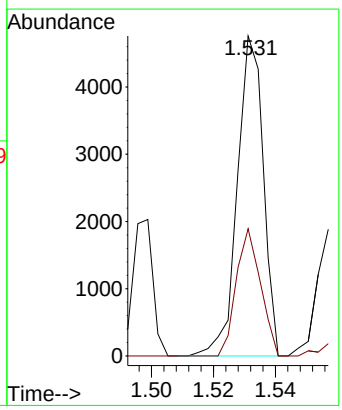
Reviewed By :Semsettin Yesilyurt 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

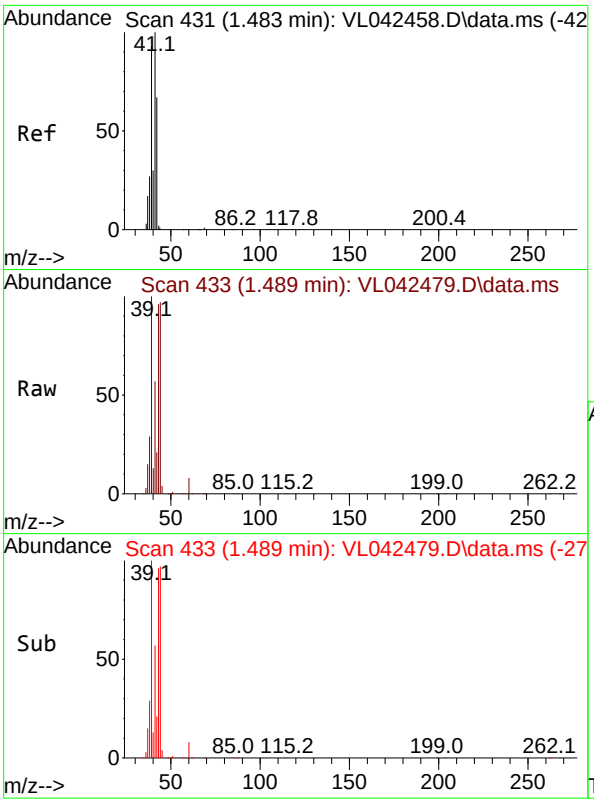


#4
Chloromethane
Concen: 0.580 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL042479.D
Acq: 05 May 2025 16:59

Tgt Ion: 50 Resp: 2764

Ion	Ratio	Lower	Upper
50	100		
52	39.7	23.5	35.3#

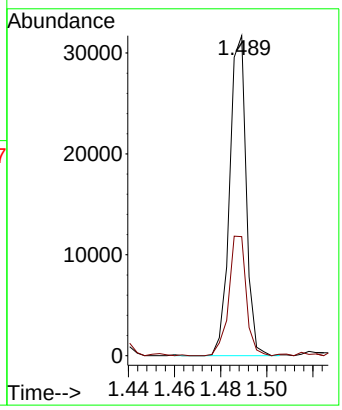




#9
Propene
Concen: 3.991 ppbv m
RT: 1.489 min Scan# 4
Delta R.T. 0.007 min
Lab File: VL042479.D
Acq: 05 May 2025 16:59

Tgt Ion: 41 Resp: 1574

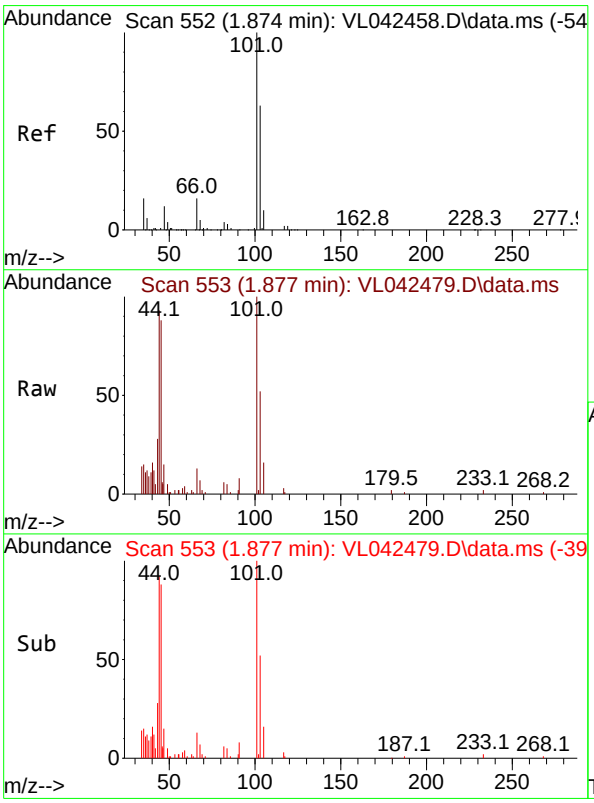
Ion	Ratio	Lower	Upper
41	100		
42	211.9	54.3	81.5



Instrument :
MSVOA_L
ClientSampleId :
EBR-P03-SC-IA01-20250428

Manual Integrations
APPROVED

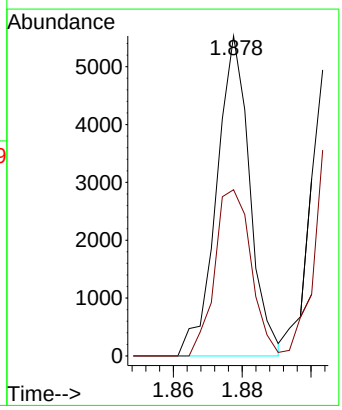
Reviewed By :Semsettin Yesilyurt 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

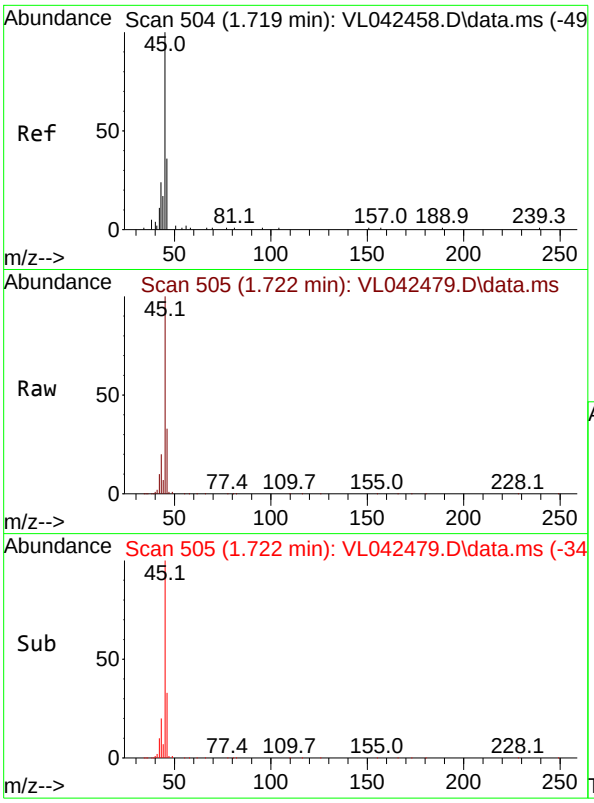


#11
Trichlorofluoromethane
Concen: 0.352 ppbv
RT: 1.877 min Scan# 553
Delta R.T. 0.003 min
Lab File: VL042479.D
Acq: 05 May 2025 16:59

Tgt Ion:101 Resp: 3702

Ion	Ratio	Lower	Upper
101	100		
103	52.0	50.6	76.0

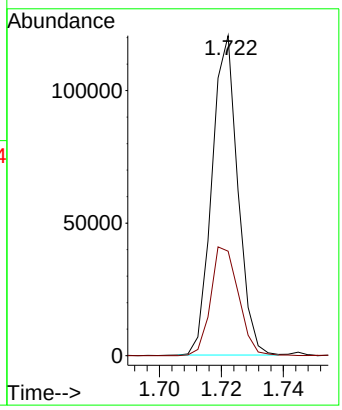




#13
Ethanol
Concen: 87.324 ppbv
RT: 1.722 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042479.D
Acq: 05 May 2025 16:59

Tgt Ion: 45 Resp: 6992

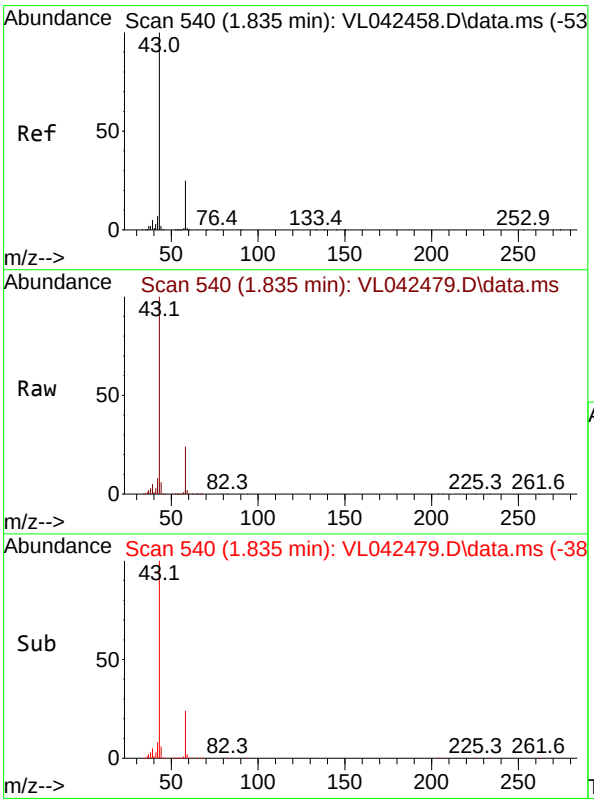
Ion	Ratio	Lower	Upper
45	100		
46	36.8	15.3	61.1



Instrument :
MSVOA_L
ClientSampleId :
EBR-P03-SC-IA01-20250428

Manual Integrations
APPROVED

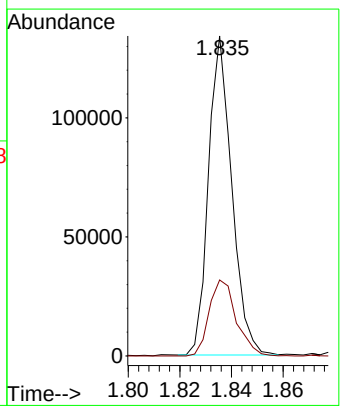
Reviewed By :Semsettin Yesilyurt 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

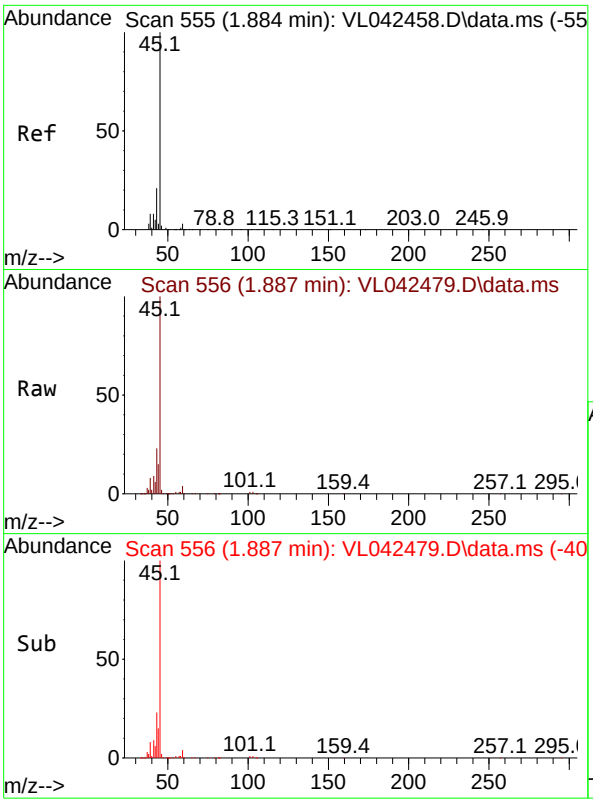


#15
Acetone
Concen: 6.669 ppbv
RT: 1.835 min Scan# 540
Delta R.T. 0.000 min
Lab File: VL042479.D
Acq: 05 May 2025 16:59

Tgt Ion: 43 Resp: 83945

Ion	Ratio	Lower	Upper
43	100		
58	27.7	19.8	29.8

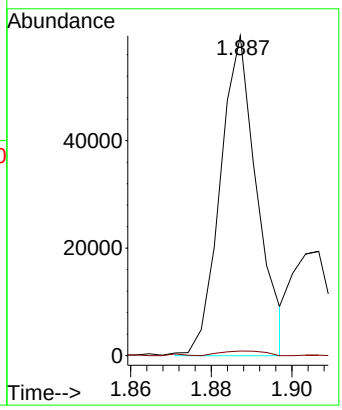




#19
Isopropyl Alcohol
Concen: 5.416 ppbv m
RT: 1.887 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042479.D
Acq: 05 May 2025 16:59

Tgt Ion: 45 Resp: 3773

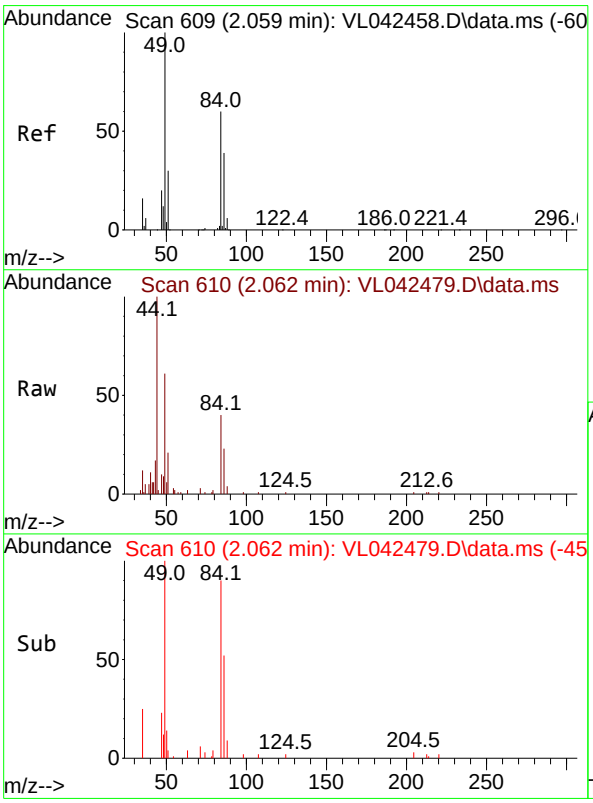
Ion	Ratio	Lower	Upper
45	100		
58	0.0	1.6	2.4



Instrument :
MSVOA_L
ClientSampleId :
EBR-P03-SC-IA01-20250428

Manual Integrations
APPROVED

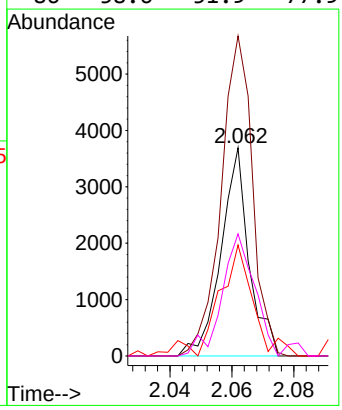
Reviewed By :Semsettin Yesilyurt 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

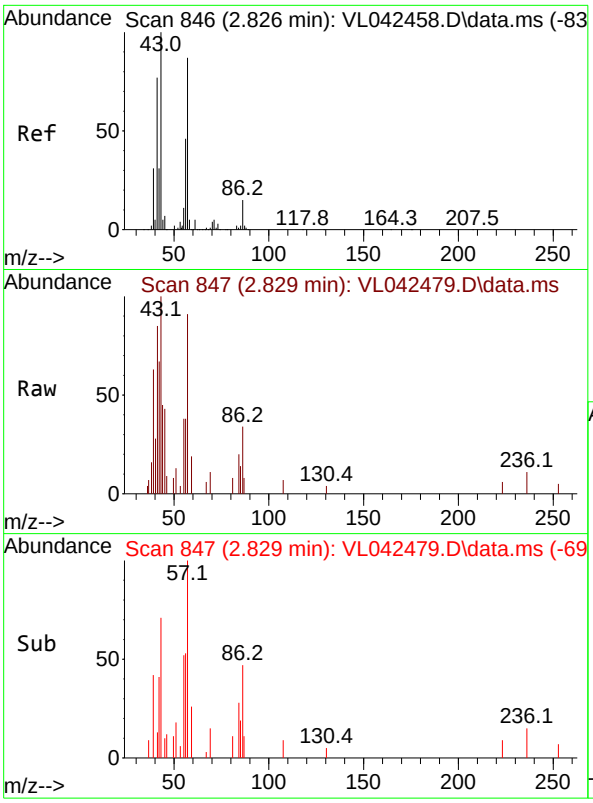


#20
Methylene Chloride
Concen: 0.614 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.003 min
Lab File: VL042479.D
Acq: 05 May 2025 16:59

Tgt Ion: 84 Resp: 2323

Ion	Ratio	Lower	Upper
84	100		
49	153.7	133.9	200.9
51	45.9	41.0	61.6
86	58.6	51.9	77.9

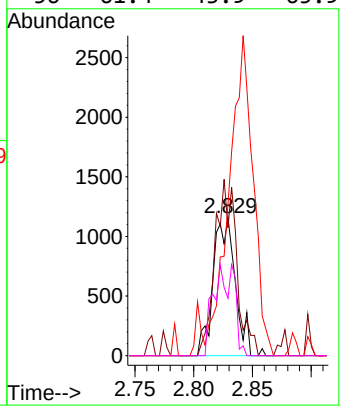




#26
Hexane
Concen: 0.173 ppbv m
RT: 2.829 min Scan# 84
Delta R.T. 0.003 min
Lab File: VL042479.D
Acq: 05 May 2025 16:59

Tgt Ion: 57 Resp: 152

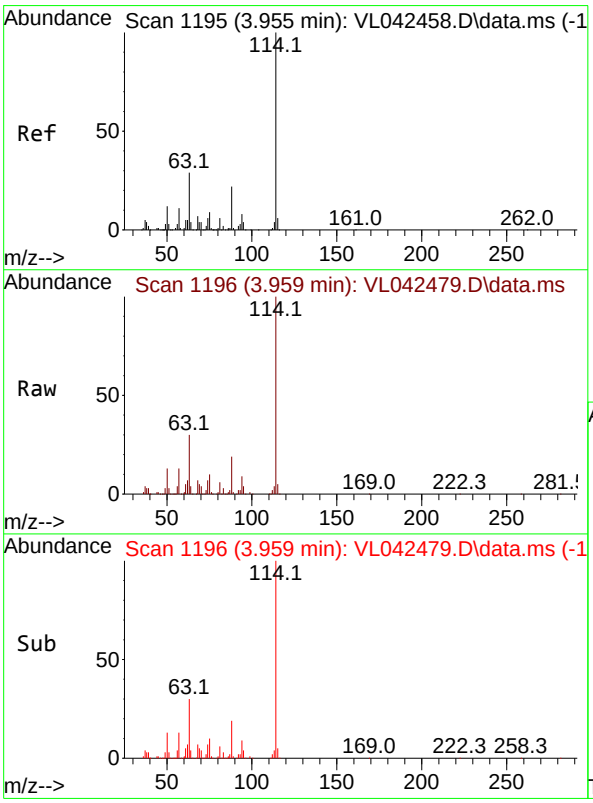
Ion	Ratio	Lower	Upper
57	100		
41	129.2	77.8	116.8#
43	0.0	187.0	280.6#
56	61.4	43.9	65.9



Instrument :
MSVOA_L
ClientSampleId :
EBR-P03-SC-IA01-20250428

Manual Integrations
APPROVED

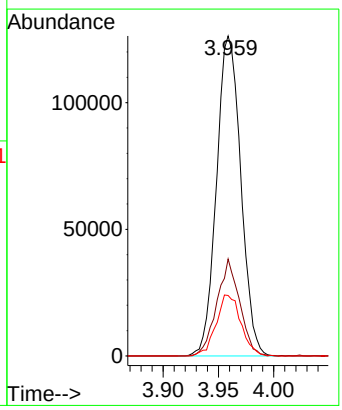
Reviewed By :Semsettin Yesilyurt 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

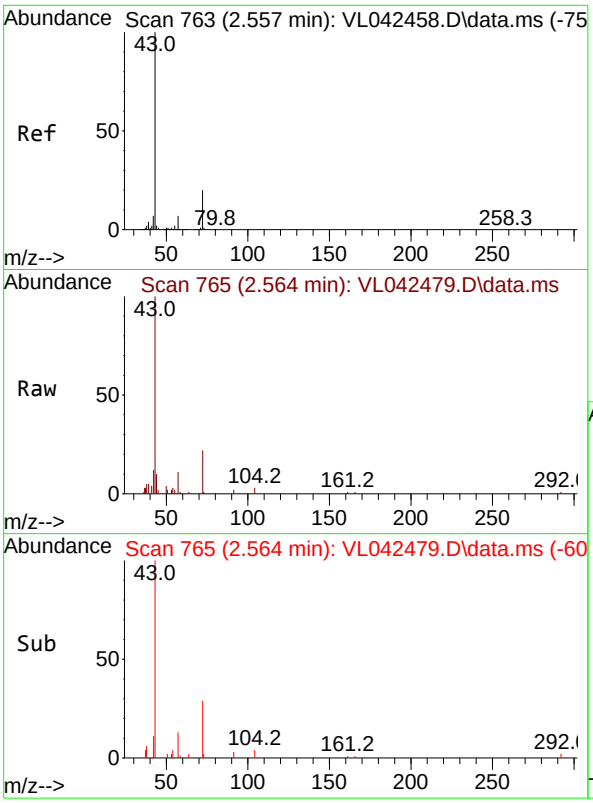


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.959 min Scan# 1196
Delta R.T. 0.003 min
Lab File: VL042479.D
Acq: 05 May 2025 16:59

Tgt Ion:114 Resp: 192895

Ion	Ratio	Lower	Upper
114	100		
63	28.5	23.1	34.7
88	19.5	16.1	24.1





#34
2-Butanone
Concen: 0.589 ppbv
RT: 2.564 min Scan# 7
Delta R.T. 0.007 min
Lab File: VL042479.D
Acq: 05 May 2025 16:59

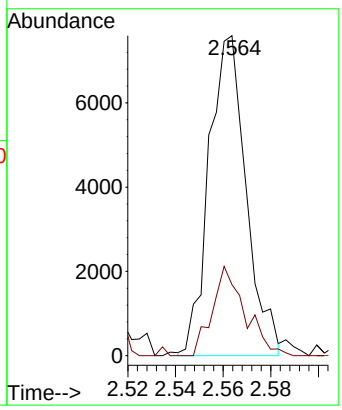
Tgt Ion: 43 Resp: 822

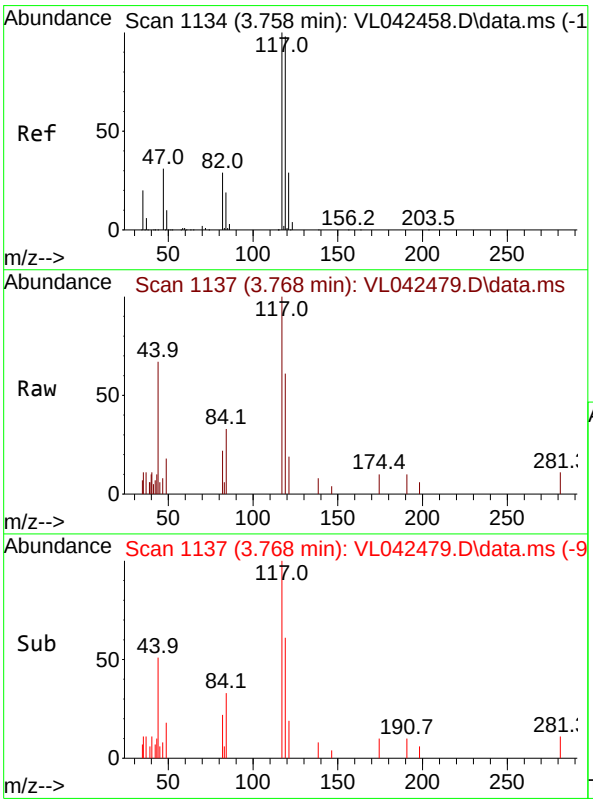
Ion	Ratio	Lower	Upper
43	100		
72	24.7	16.7	25.1

Instrument :
MSVOA_L
ClientSampleId :
EBR-P03-SC-IA01-20250428

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

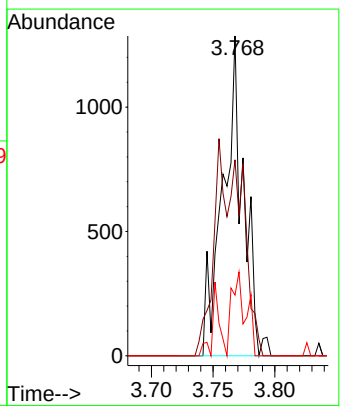


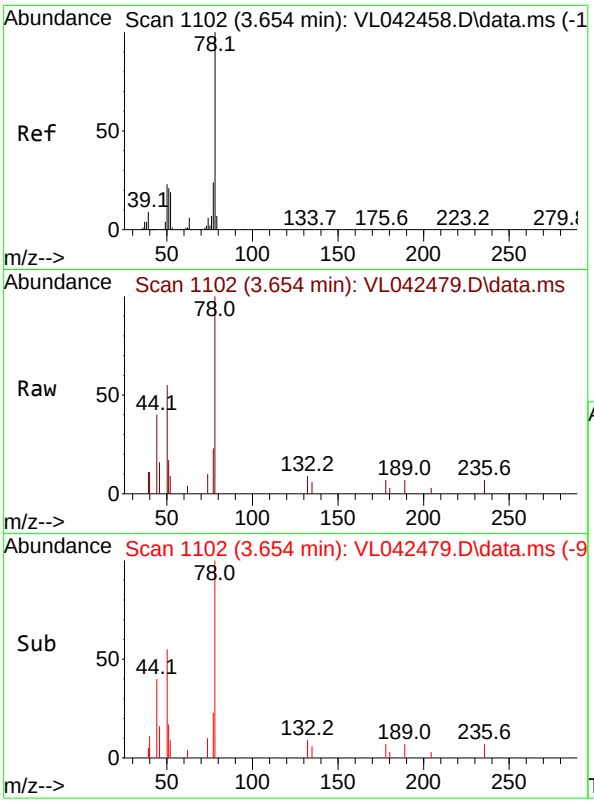


#35
Carbon Tetrachloride
Concen: 0.084 ppbv m
RT: 3.768 min Scan# 1137
Delta R.T. 0.010 min
Lab File: VL042479.D
Acq: 05 May 2025 16:59

Tgt Ion:117 Resp: 1479

Ion	Ratio	Lower	Upper
117	100		
119	61.3	78.1	117.1#
121	19.0	23.0	34.6#

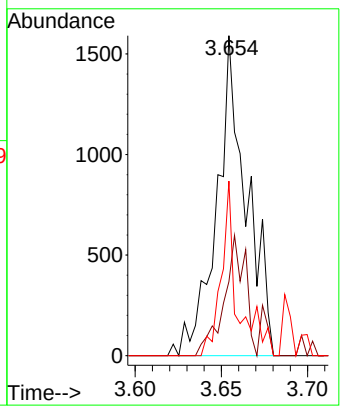




#36
Benzene
Concen: 0.105 ppbv m
RT: 3.654 min Scan# 1
Delta R.T. 0.000 min
Lab File: VL042479.D
Acq: 05 May 2025 16:59

Tgt Ion: 78 Resp: 190

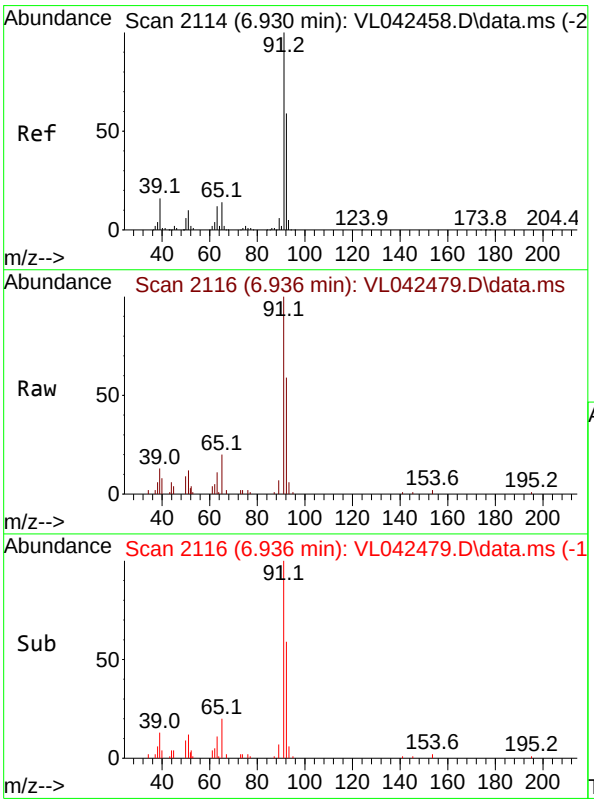
Ion	Ratio	Lower	Upper
78	100		
77	23.1	18.9	28.3
50	54.6	18.4	27.6



Instrument :
MSVOA_L
ClientSampleId :
EBR-P03-SC-IA01-20250428

Manual Integrations
APPROVED

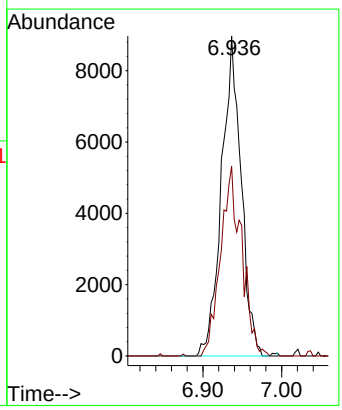
Reviewed By :Semsettin Yesilyurt 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

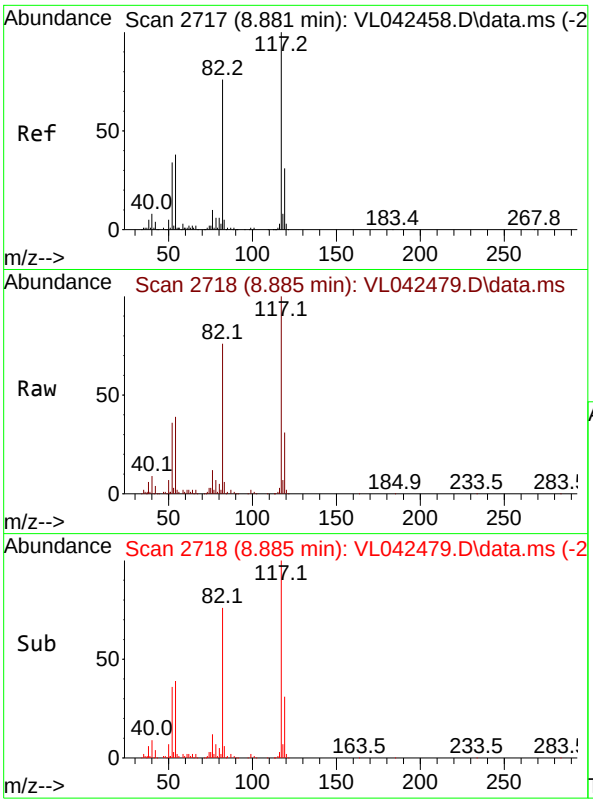


#53
Toluene
Concen: 0.804 ppbv m
RT: 6.936 min Scan# 2116
Delta R.T. 0.007 min
Lab File: VL042479.D
Acq: 05 May 2025 16:59

Tgt Ion: 91 Resp: 15497

Ion	Ratio	Lower	Upper
91	100		
92	64.1	47.9	71.9

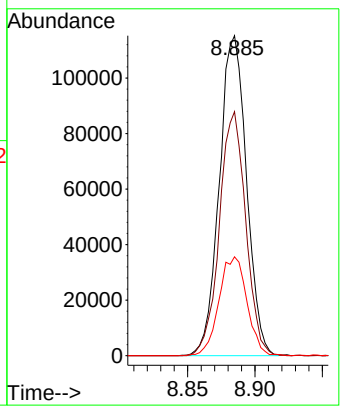




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.885 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042479.D
Acq: 05 May 2025 16:59

Tgt Ion:117 Resp: 16188

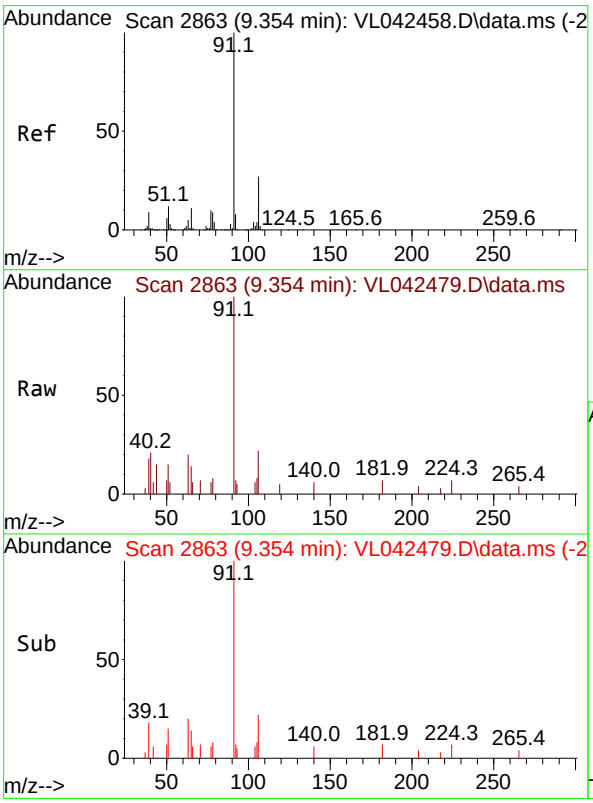
Ion	Ratio	Lower	Upper
117	100		
82	73.8	63.5	95.3
119	31.9	25.8	38.8



Instrument :
MSVOA_L
ClientSampleId :
EBR-P03-SC-IA01-20250428

Manual Integrations APPROVED

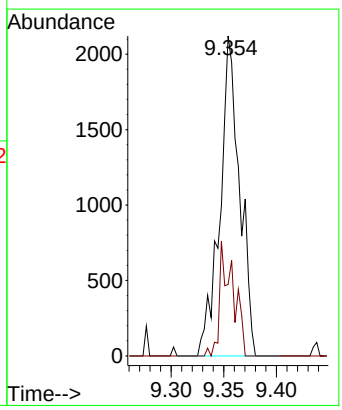
Reviewed By :Semsettin Yesilyurt 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

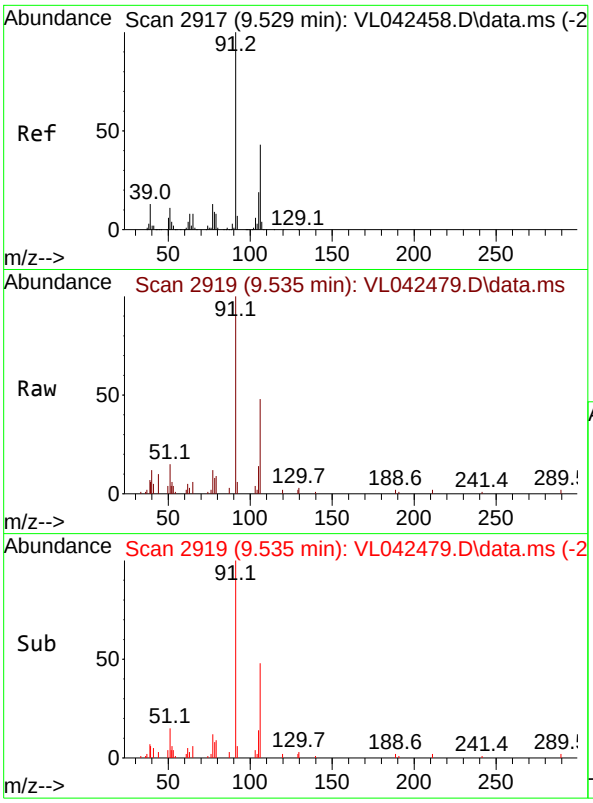


#58
Ethyl Benzene
Concen: 0.102 ppbv m
RT: 9.354 min Scan# 2863
Delta R.T. 0.000 min
Lab File: VL042479.D
Acq: 05 May 2025 16:59

Tgt Ion: 91 Resp: 2768

Ion	Ratio	Lower	Upper
91	100		
106	22.3	21.9	32.9

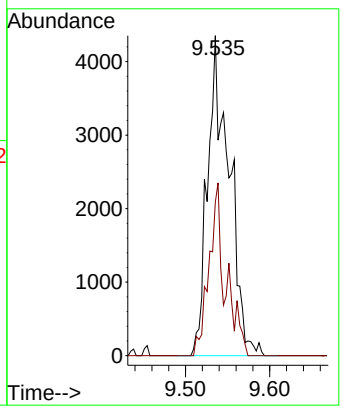




#59
m/p-Xylene
Concen: 0.342 ppbv m
RT: 9.535 min Scan# 2
Delta R.T. 0.007 min
Lab File: VL042479.D
Acq: 05 May 2025 16:59

Tgt Ion: 91 Resp: 775

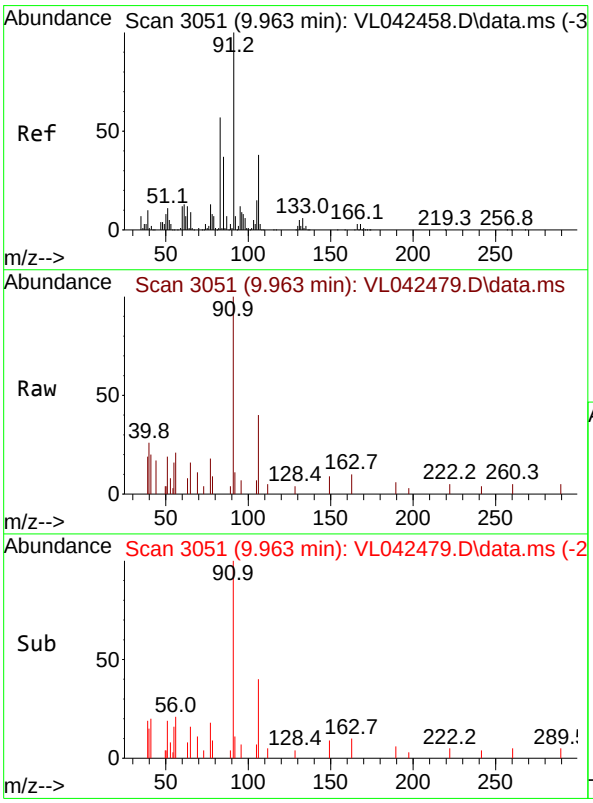
Ion	Ratio	Lower	Upper
91	100		
106	41.3	34.2	51.2



Instrument :
MSVOA_L
ClientSampleId :
EBR-P03-SC-IA01-20250428

Manual Integrations
APPROVED

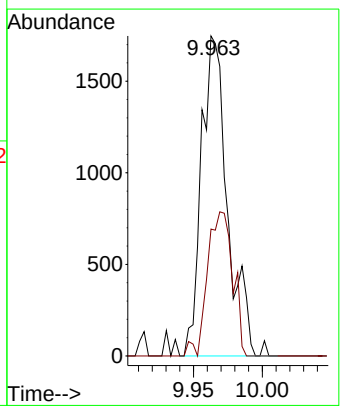
Reviewed By :Semsettin Yesilyurt 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

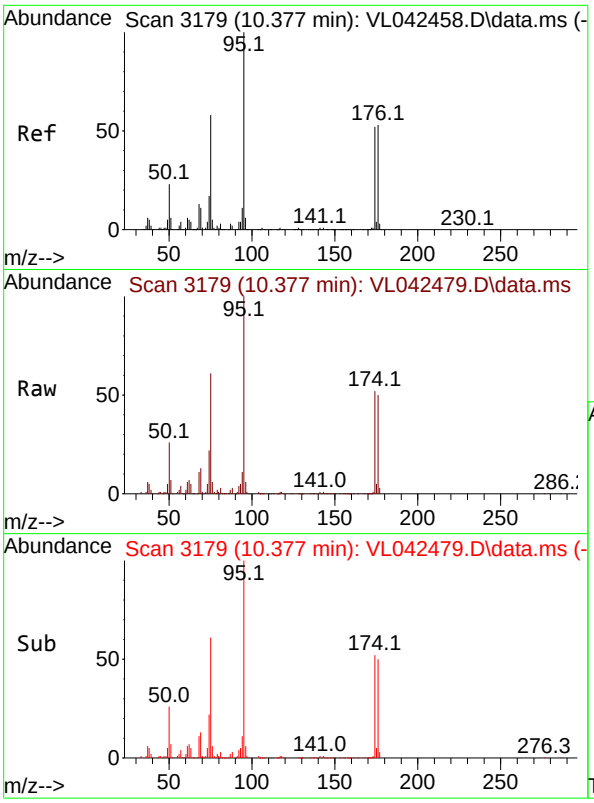


#60
o-Xylene
Concen: 0.102 ppbv m
RT: 9.963 min Scan# 3051
Delta R.T. 0.000 min
Lab File: VL042479.D
Acq: 05 May 2025 16:59

Tgt Ion: 91 Resp: 2307

Ion	Ratio	Lower	Upper
91	100		
106	43.9	20.1	60.2

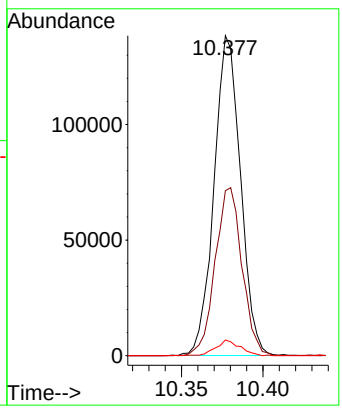




#68
1-Bromo-4-Fluorobenzene
Concen: 10.399 ppbv
RT: 10.377 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042479.D
Acq: 05 May 2025 16:59

Tgt Ion: 95 Resp: 15607

Ion	Ratio	Lower	Upper
95	100		
174	53.4	42.7	64.1
175	4.5	3.6	5.4



Instrument :
MSVOA_L
ClientSampleId :
EBR-P03-SC-IA01-20250428

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

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

Report of Analysis

Client:	Tetra Tech, EMI	Date Collected:	04/29/25
Project:	R36900	Date Received:	04/30/25
Client Sample ID:	EBR-P04-SC-SS01-20250428	SDG No.:	Q1927
Lab Sample ID:	Q1927-03	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
VL042474.D	1		05/05/25 13:11	VL050525

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.56	2.77		1.04	2.47	ug/m3
74-87-3	Chloromethane	0.50	1.03	U	0.21	1.03	ug/m3
75-01-4	Vinyl Chloride	0.030	0.080	U	0.030	0.080	ug/m3
74-83-9	Bromomethane	0.50	1.94	U	0.54	1.94	ug/m3
75-00-3	Chloroethane	0.50	1.32	U	0.45	1.32	ug/m3
109-99-9	Tetrahydrofuran	0.50	1.47	U	0.38	1.47	ug/m3
75-69-4	Trichlorofluoromethane	0.28	1.57	J	0.90	2.81	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	0.50	3.83	U	1.23	3.83	ug/m3
76-14-2	Dichlorotetrafluoroethane	0.50	3.49	U	0.63	3.49	ug/m3
75-65-0	tert-Butyl alcohol	4.20	12.7		0.58	1.52	ug/m3
142-82-5	Heptane	0.50	2.05	U	0.45	2.05	ug/m3
75-35-4	1,1-Dichloroethene	0.50	1.98	U	0.56	1.98	ug/m3
67-64-1	Acetone	8.50	20.2		0.57	1.19	ug/m3
75-15-0	Carbon Disulfide	0.67	2.09		0.50	1.56	ug/m3
1634-04-4	Methyl tert-Butyl Ether	0.50	1.80	U	0.43	1.80	ug/m3
75-09-2	Methylene Chloride	0.60	2.08		0.66	1.74	ug/m3
156-60-5	trans-1,2-Dichloroethene	0.50	1.98	U	0.75	1.98	ug/m3
75-34-3	1,1-Dichloroethane	0.50	2.02	U	0.53	2.02	ug/m3
110-82-7	Cyclohexane	0.50	1.72	U	0.76	1.72	ug/m3
78-93-3	2-Butanone	0.51	1.50		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	0.50	1.98	U	0.36	1.98	ug/m3
67-66-3	Chloroform	0.50	2.44	U	0.39	2.44	ug/m3
71-55-6	1,1,1-Trichloroethane	0.030	0.16	U	0.050	0.16	ug/m3
540-84-1	2,2,4-Trimethylpentane	0.50	2.34	U	0.47	2.34	ug/m3
71-43-2	Benzene	0.13	0.42	J	0.29	1.60	ug/m3
107-06-2	1,2-Dichloroethane	0.50	2.02	U	0.36	2.02	ug/m3
79-01-6	Trichloroethene	0.030	0.16	U	0.11	0.16	ug/m3
78-87-5	1,2-Dichloropropane	0.50	2.31	U	0.51	2.31	ug/m3
75-27-4	Bromodichloromethane	0.50	3.35	U	0.54	3.35	ug/m3
108-10-1	4-Methyl-2-Pentanone	0.50	2.05	U	0.37	2.05	ug/m3
108-88-3	Toluene	0.16	0.60	J	0.41	1.88	ug/m3
10061-02-6	t-1,3-Dichloropropene	0.50	2.27	U	0.27	2.27	ug/m3
10061-01-5	cis-1,3-Dichloropropene	0.50	2.27	U	0.27	2.27	ug/m3
79-00-5	1,1,2-Trichloroethane	0.50	2.73	U	0.38	2.73	ug/m3

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

Report of Analysis

Client:	Tetra Tech, EMI	Date Collected:	04/29/25
Project:	R36900	Date Received:	04/30/25
Client Sample ID:	EBR-P04-SC-SS01-20250428	SDG No.:	Q1927
Lab Sample ID:	Q1927-03	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
VL042474.D	1		05/05/25 13:11	VL050525

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	0.50	4.26	U	0.60	4.26	ug/m3
106-93-4	1,2-Dibromoethane	0.10	0.77	U	0.54	0.77	ug/m3
127-18-4	Tetrachloroethene	0.030	0.20	U	0.14	0.20	ug/m3
108-90-7	Chlorobenzene	0.50	2.30	U	0.37	2.30	ug/m3
100-41-4	Ethyl Benzene	0.50	2.17	U	0.52	2.17	ug/m3
179601-23-1	m/p-Xylene	1.00	4.34	U	0.91	4.34	ug/m3
95-47-6	o-Xylene	0.50	2.17	U	0.52	2.17	ug/m3
100-42-5	Styrene	0.50	2.13	U	0.47	2.13	ug/m3
75-25-2	Bromoform	0.50	5.17	U	0.62	5.17	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	0.030	0.21	U	0.070	0.21	ug/m3
95-49-8	2-Chlorotoluene	0.50	2.59	U	0.57	2.59	ug/m3
108-67-8	1,3,5-Trimethylbenzene	0.50	2.46	U	0.54	2.46	ug/m3
95-63-6	1,2,4-Trimethylbenzene	0.50	2.46	U	0.39	2.46	ug/m3
541-73-1	1,3-Dichlorobenzene	0.50	3.01	U	0.48	3.01	ug/m3
106-46-7	1,4-Dichlorobenzene	0.50	3.01	U	0.30	3.01	ug/m3
95-50-1	1,2-Dichlorobenzene	0.50	3.01	U	0.48	3.01	ug/m3
120-82-1	1,2,4-Trichlorobenzene	0.50	3.71	U	0.67	3.71	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	0.50	5.33	U	0.96	5.33	ug/m3
106-99-0	1,3-Butadiene	0.50	1.11	U	0.29	1.11	ug/m3
91-20-3	Naphthalene	0.10	0.52	U	0.42	0.52	ug/m3
622-96-8	4-Ethyltoluene	0.50	2.46	U	0.59	2.46	ug/m3
110-54-3	Hexane	0.18	0.63	J	0.39	1.76	ug/m3
107-05-1	Allyl Chloride	0.50	1.57	U	0.47	1.57	ug/m3
123-91-1	1,4-Dioxane	0.50	1.80	U	0.76	1.80	ug/m3
80-62-6	Methyl Methacrylate	0.50	2.05	U	0.37	2.05	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	9.70			65 - 135	97%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	71900		2.79			
540-36-3	1,4-Difluorobenzene	203000		3.962			
3114-55-4	Chlorobenzene-d5	176000		8.885			

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

Report of Analysis

Client:	Tetra Tech, EMI	Date Collected:	04/29/25
Project:	R36900	Date Received:	04/30/25
Client Sample ID:	EBR-P04-SC-SS01-20250428	SDG No.:	Q1927
Lab Sample ID:	Q1927-03	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
VL042474.D	1		05/05/25 13:11	VL050525

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\VL050525\
Data File : VL042474.D
Acq On : 05 May 2025 13:11
Operator : SY/MD
Sample : Q1927-03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
EBR-P04-SC-SS01-20250428

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

Quant Time: May 06 01:41:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri May 02 03:16:31 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.790	49	71873	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.962	114	203294	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.885	117	175917	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.380	95	158342	9.708	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 97.100%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.499	85	6716	0.565	ppbv		97
3) Chlorodifluoromethane	1.476	51	5375m	0.427	ppbv		
9) Propene	1.486	41	995	0.242	ppbv	#	68
11) Trichlorofluoromethane	1.878	101	3131	0.285	ppbv	#	73
13) Ethanol	1.722	45	61821	74.066	ppbv		99
15) Acetone	1.836	43	111511	8.499	ppbv		100
17) tert-Butyl alcohol	2.043	59	48508	4.196	ppbv		97
19) Isopropyl Alcohol	1.887	45	18121	2.495	ppbv	#	1
20) Methylene Chloride	2.062	84	2382	0.604	ppbv	#	86
26) Hexane	2.826	57	1687m	0.184	ppbv		
27) Carbon Disulfide	2.153	76	7142	0.669	ppbv	#	1
34) 2-Butanone	2.567	43	7445	0.506	ppbv		97
35) Carbon Tetrachloride	3.768	117	1540m	0.083	ppbv		
36) Benzene	3.658	78	2476m	0.129	ppbv		
53) Toluene	6.936	91	3301m	0.163	ppbv		
59) m/p-Xylene	9.542	91	4224m	0.171	ppbv		

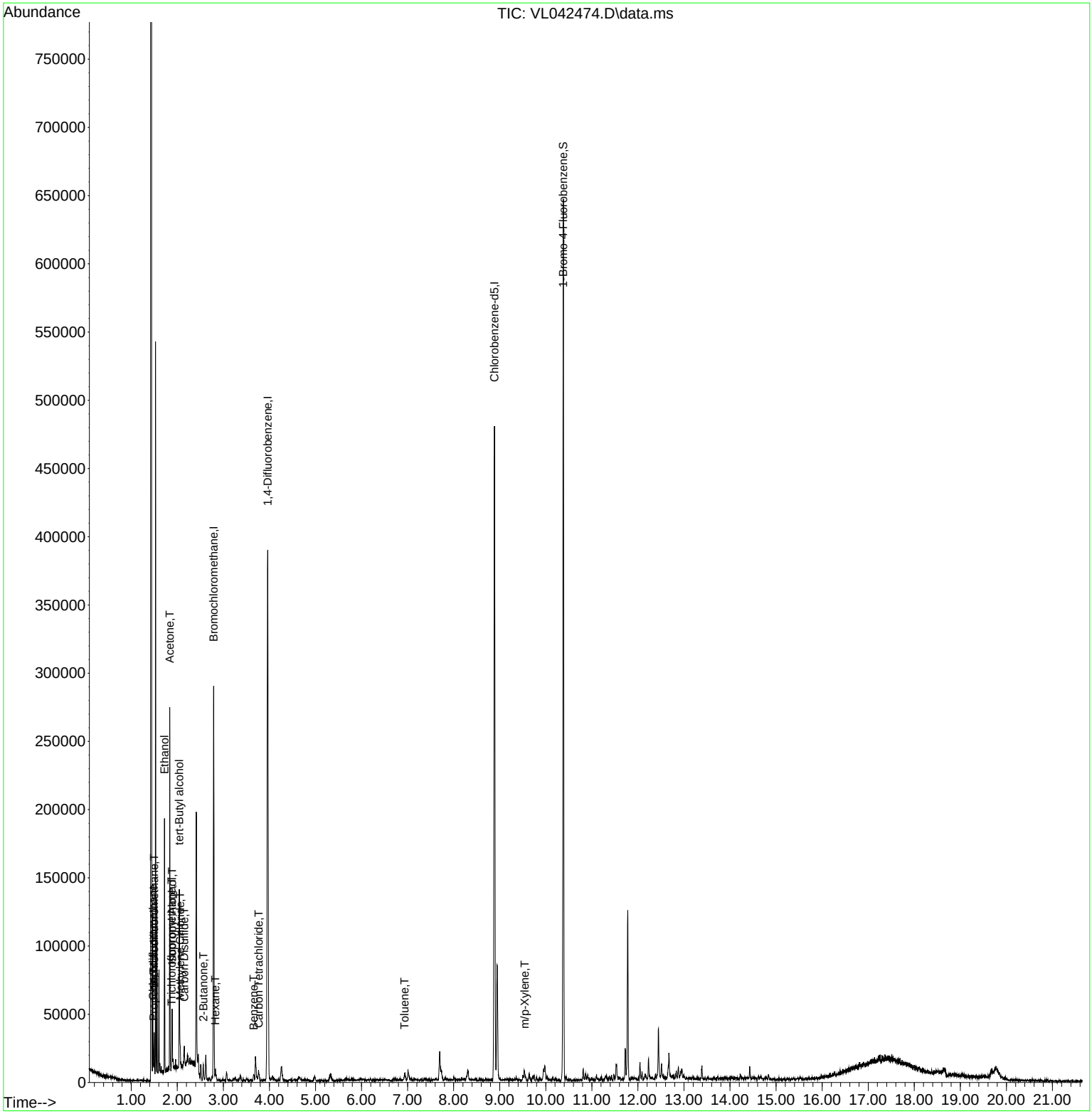
(#) = qualifier out of range (m) = manual integration (+) = signals summed

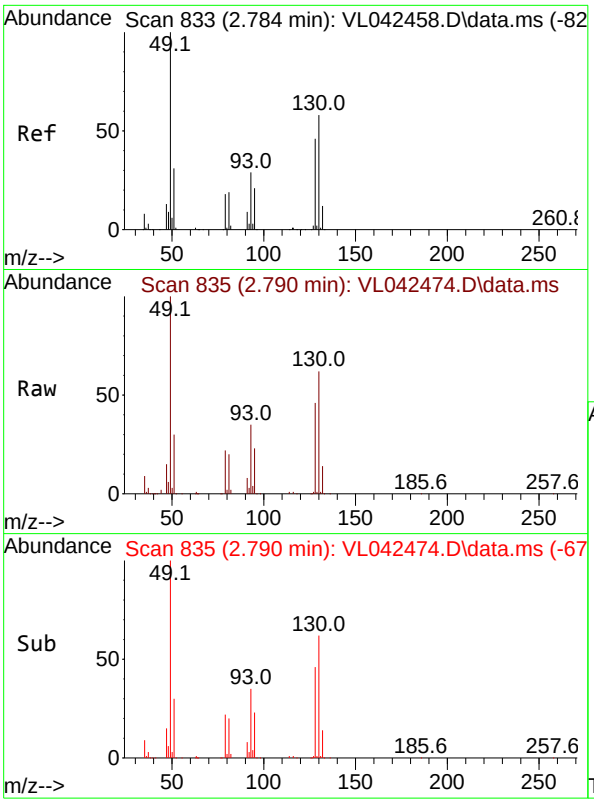
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050525\
Data File : VL042474.D
Acq On : 05 May 2025 13:11
Operator : SY/MD
Sample : Q1927-03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 06 01:41:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri May 02 03:16:31 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
EBR-P04-SC-SS01-20250428

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

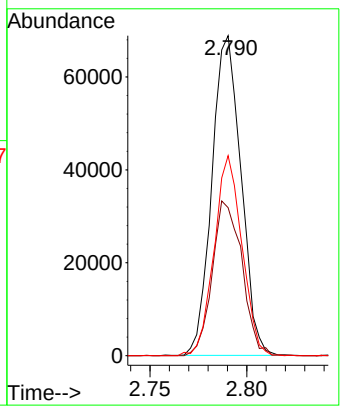




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 8
Delta R.T. 0.006 min
Lab File: VL042474.D
Acq: 05 May 2025 13:11

Tgt Ion: 49 Resp: 7187

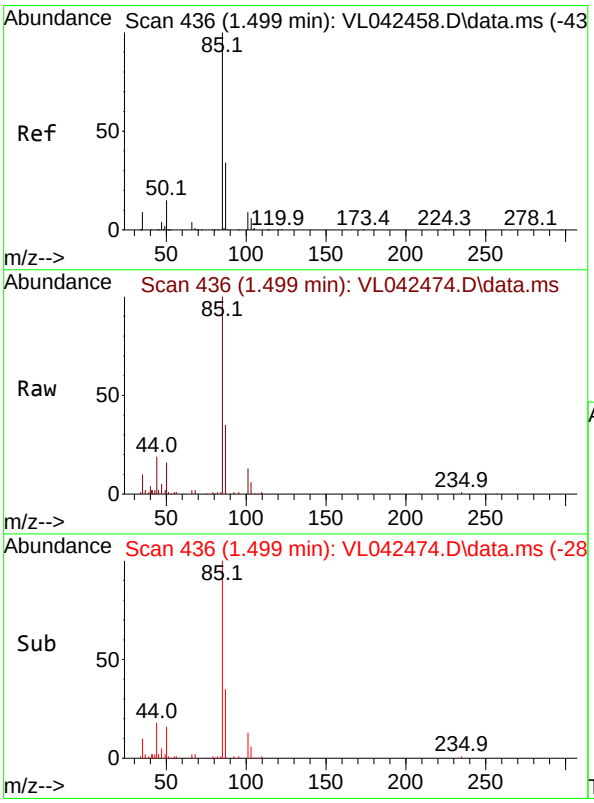
Ion	Ratio	Lower	Upper
49	100		
128	49.4	23.3	69.9
130	59.8	29.5	88.6



Instrument :
MSVOA_L
ClientSampleId :
EBR-P04-SC-SS01-20250428

Manual Integrations
APPROVED

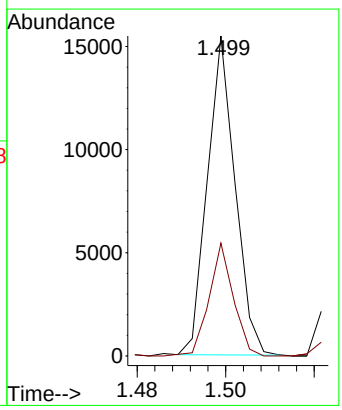
Reviewed By :Semsettin Yesilyurt 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

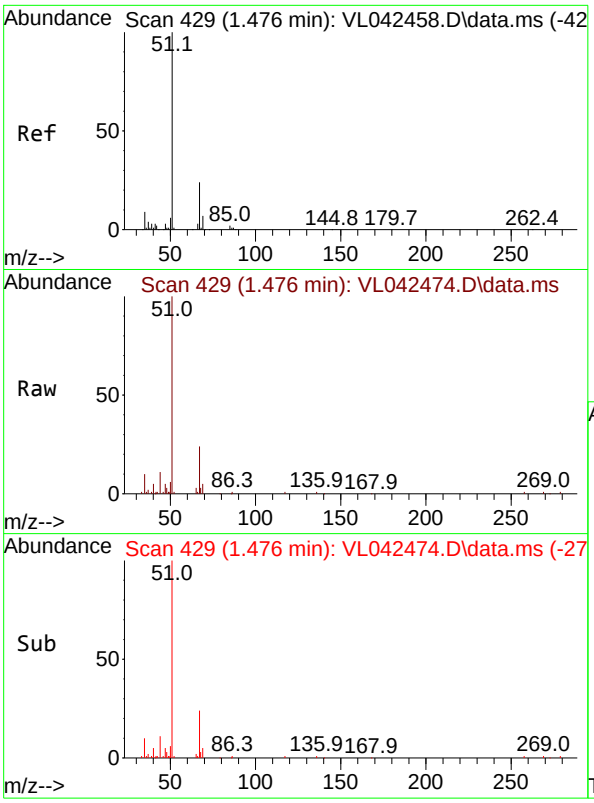


#2
Dichlorodifluoromethane
Concen: 0.565 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.000 min
Lab File: VL042474.D
Acq: 05 May 2025 13:11

Tgt Ion: 85 Resp: 6716

Ion	Ratio	Lower	Upper
85	100		
87	35.4	26.9	40.3





#3
Chlorodifluoromethane
Concen: 0.427 ppbv m
RT: 1.476 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042474.D
Acq: 05 May 2025 13:11

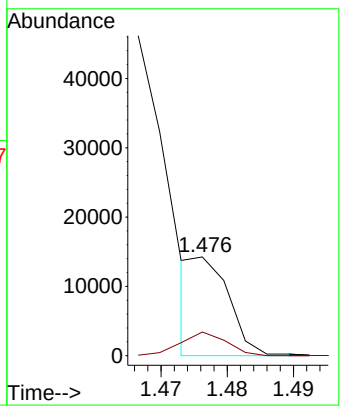
Tgt Ion: 51 Resp: 537

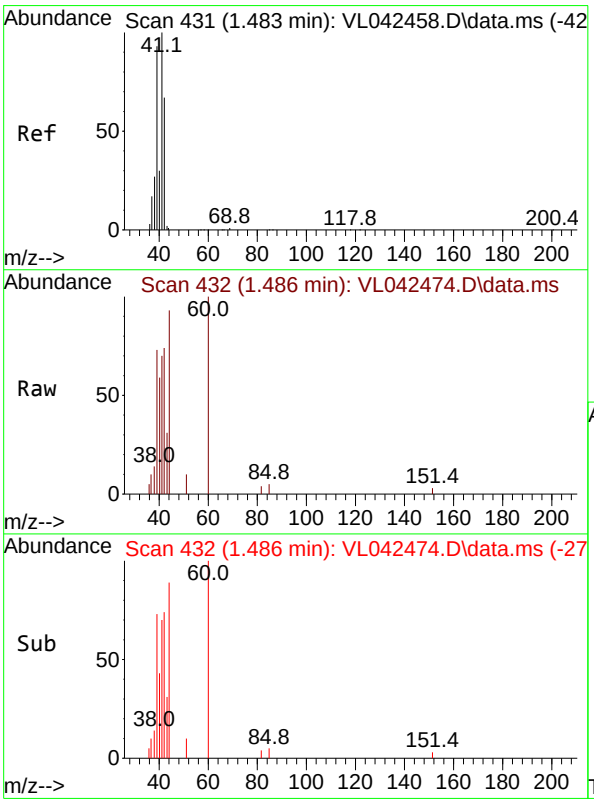
Ion	Ratio	Lower	Upper
51	100		
67	31.4	18.4	27.6#

Instrument :
MSVOA_L
ClientSampleId :
EBR-P04-SC-SS01-20250428

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

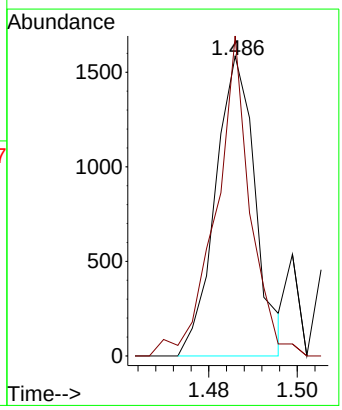


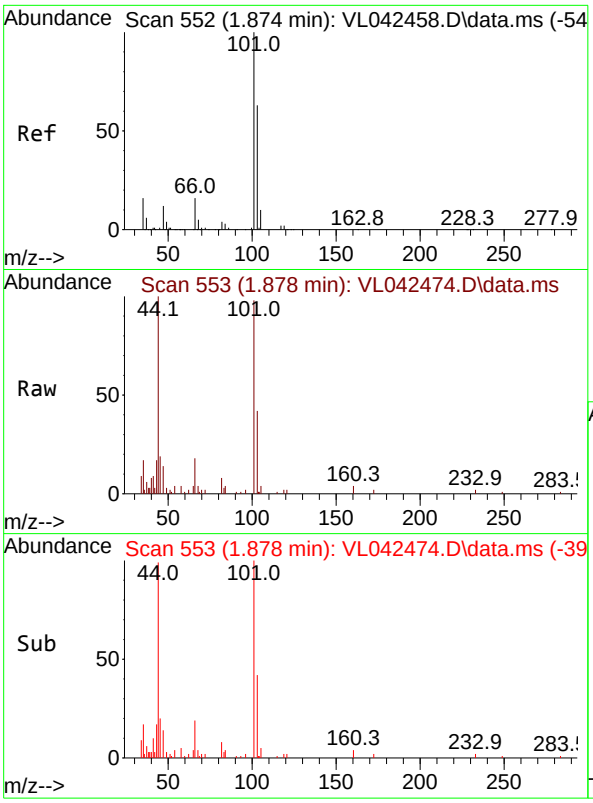


#9
Propene
Concen: 0.242 ppbv
RT: 1.486 min Scan# 432
Delta R.T. 0.003 min
Lab File: VL042474.D
Acq: 05 May 2025 13:11

Tgt Ion: 41 Resp: 995

Ion	Ratio	Lower	Upper
41	100		
42	94.0	54.3	81.5#

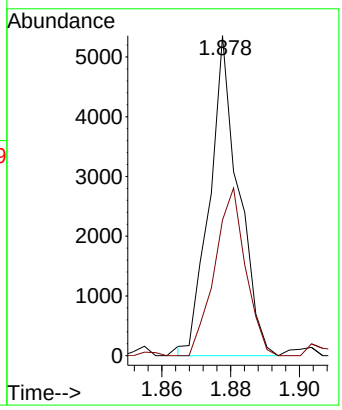




#11
Trichlorofluoromethane
Concen: 0.285 ppbv
RT: 1.878 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042474.D
Acq: 05 May 2025 13:11

Tgt Ion:101 Resp: 313

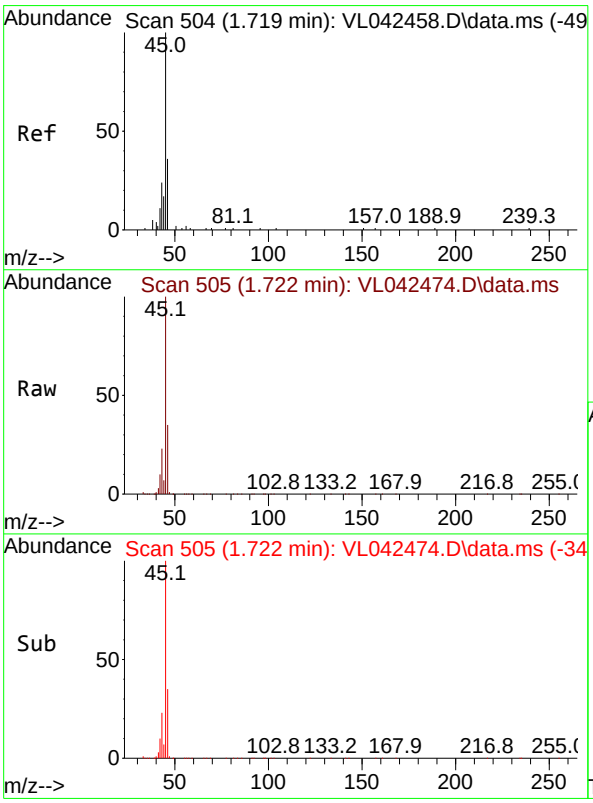
Ion	Ratio	Lower	Upper
101	100		
103	42.4	50.6	76.0



Instrument :
MSVOA_L
ClientSampleId :
EBR-P04-SC-SS01-20250428

Manual Integrations
APPROVED

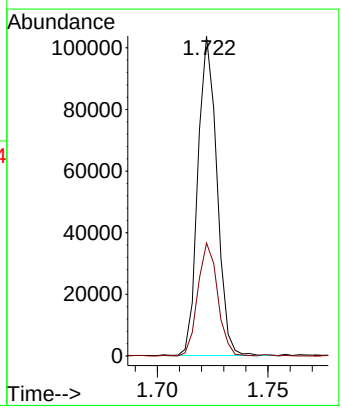
Reviewed By :Semsettin Yesilyurt 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

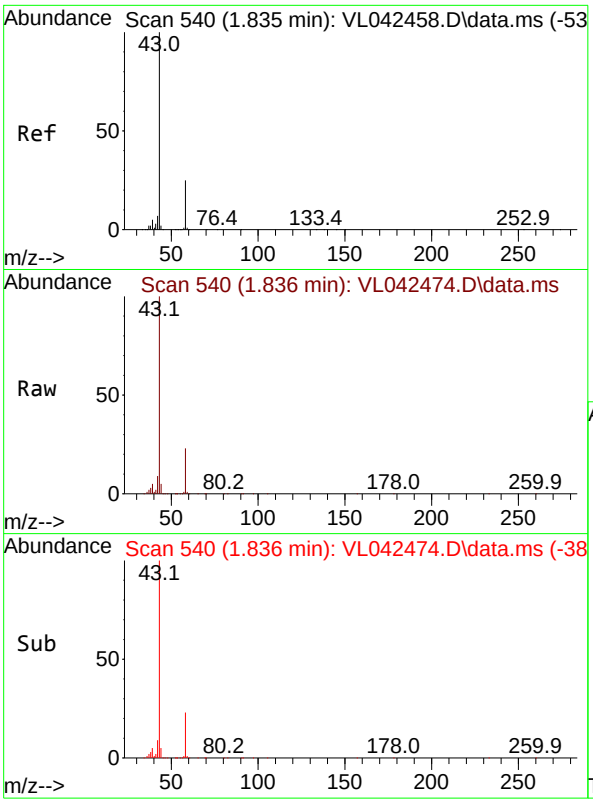


#13
Ethanol
Concen: 74.066 ppbv
RT: 1.722 min Scan# 505
Delta R.T. 0.003 min
Lab File: VL042474.D
Acq: 05 May 2025 13:11

Tgt Ion: 45 Resp: 61821

Ion	Ratio	Lower	Upper
45	100		
46	37.3	15.3	61.1





#15
Acetone
Concen: 8.499 ppbv
RT: 1.836 min Scan# 54
Delta R.T. 0.000 min
Lab File: VL042474.D
Acq: 05 May 2025 13:11

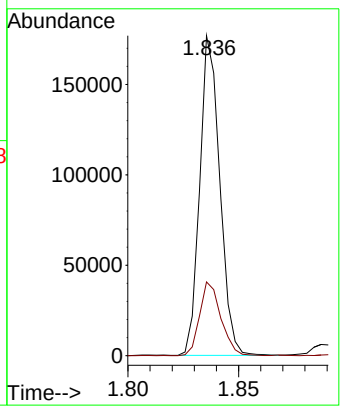
Tgt Ion: 43 Resp: 11151

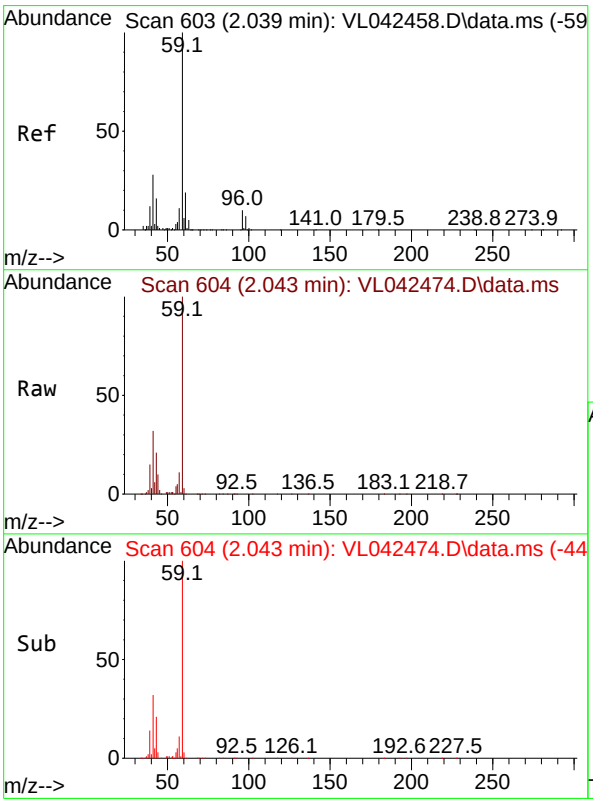
Ion	Ratio	Lower	Upper
43	100		
58	24.6	19.8	29.8

Instrument :
MSVOA_L
ClientSampleId :
EBR-P04-SC-SS01-20250428

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

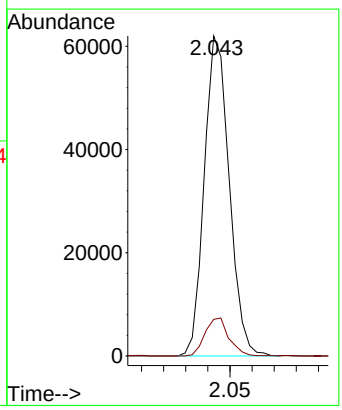


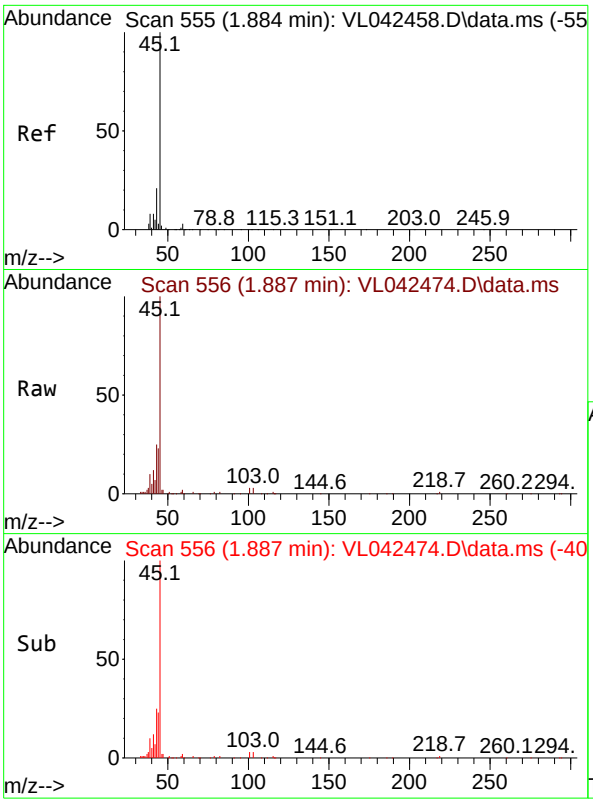


#17
tert-Butyl alcohol
Concen: 4.196 ppbv
RT: 2.043 min Scan# 604
Delta R.T. 0.003 min
Lab File: VL042474.D
Acq: 05 May 2025 13:11

Tgt Ion: 59 Resp: 48508

Ion	Ratio	Lower	Upper
59	100		
57	11.6	8.3	12.5





#19
Isopropyl Alcohol
Concen: 2.495 ppbv
RT: 1.887 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042474.D
Acq: 05 May 2025 13:11

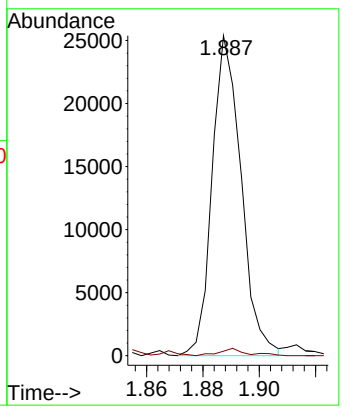
Tgt Ion: 45 Resp: 1812

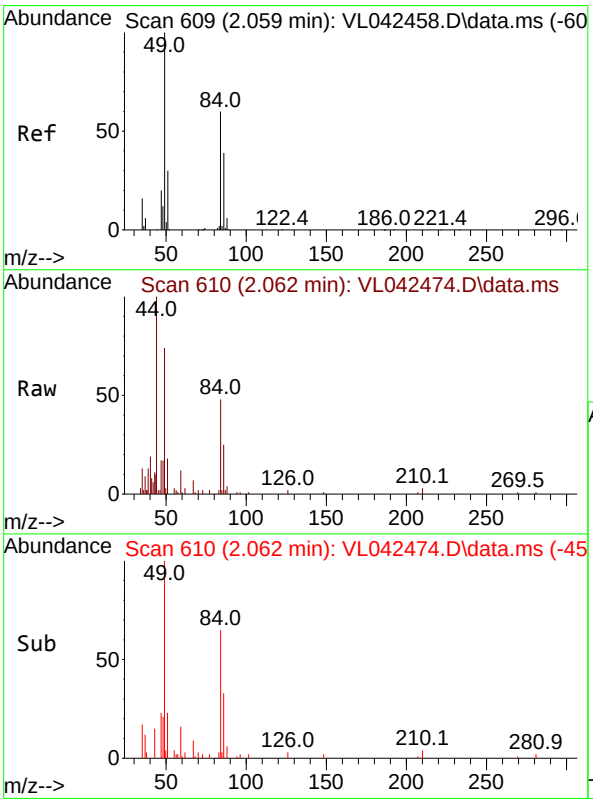
Ion	Ratio	Lower	Upper
45	100		
58	151.4	1.6	2.4#

Instrument :
MSVOA_L
ClientSampleId :
EBR-P04-SC-SS01-20250428

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

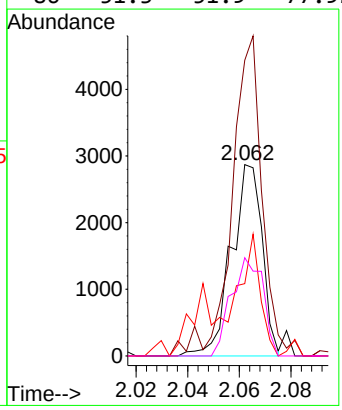


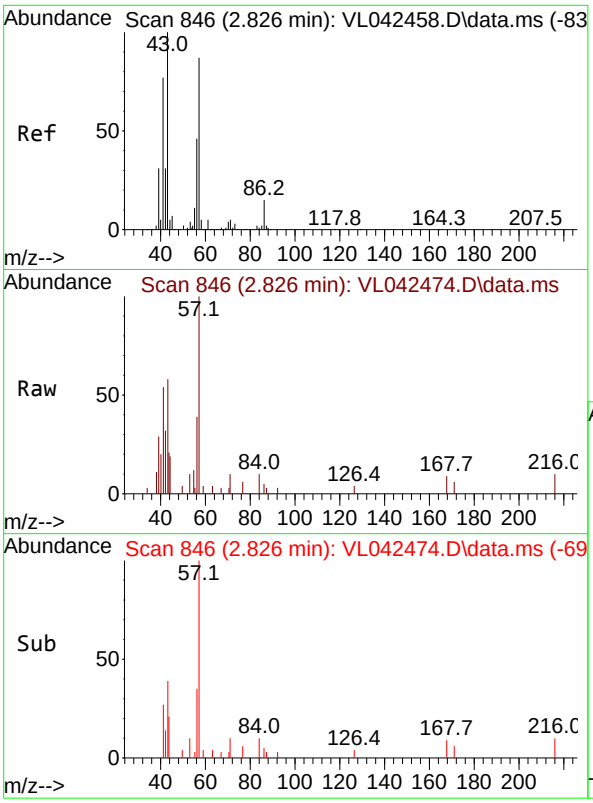


#20
Methylene Chloride
Concen: 0.604 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.003 min
Lab File: VL042474.D
Acq: 05 May 2025 13:11

Tgt Ion: 84 Resp: 2382

Ion	Ratio	Lower	Upper
84	100		
49	152.9	133.9	200.9
51	37.7	41.0	61.6#
86	51.3	51.9	77.9#

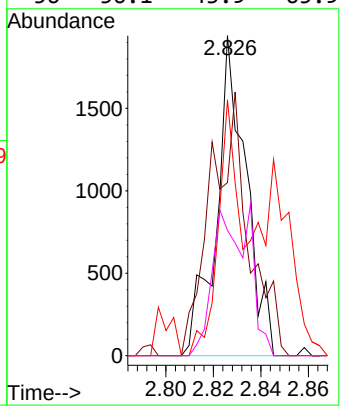




#26
Hexane
Concen: 0.184 ppbv m
RT: 2.826 min Scan# 84
Delta R.T. 0.000 min
Lab File: VL042474.D
Acq: 05 May 2025 13:11

Tgt Ion: 57 Resp: 168

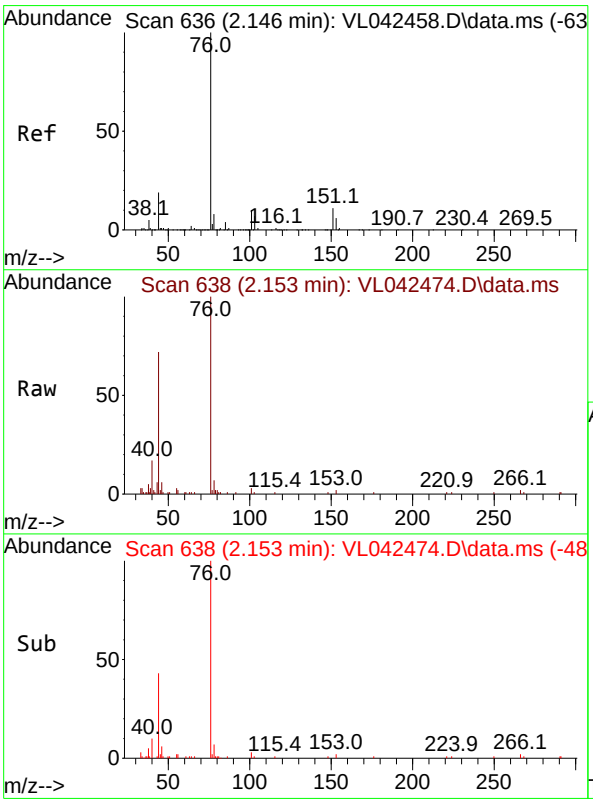
Ion	Ratio	Lower	Upper
57	100		
41	104.7	77.8	116.8
43	129.6	187.0	280.6#
56	56.1	43.9	65.9



Instrument :
MSVOA_L
ClientSampleId :
EBR-P04-SC-SS01-20250428

Manual Integrations
APPROVED

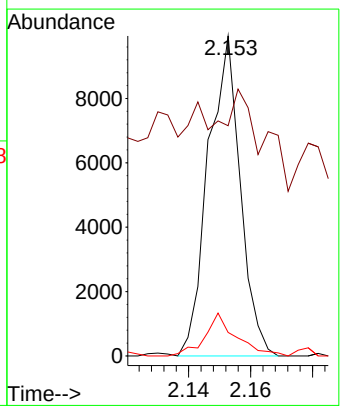
Reviewed By :Semsettin Yesilyurt 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

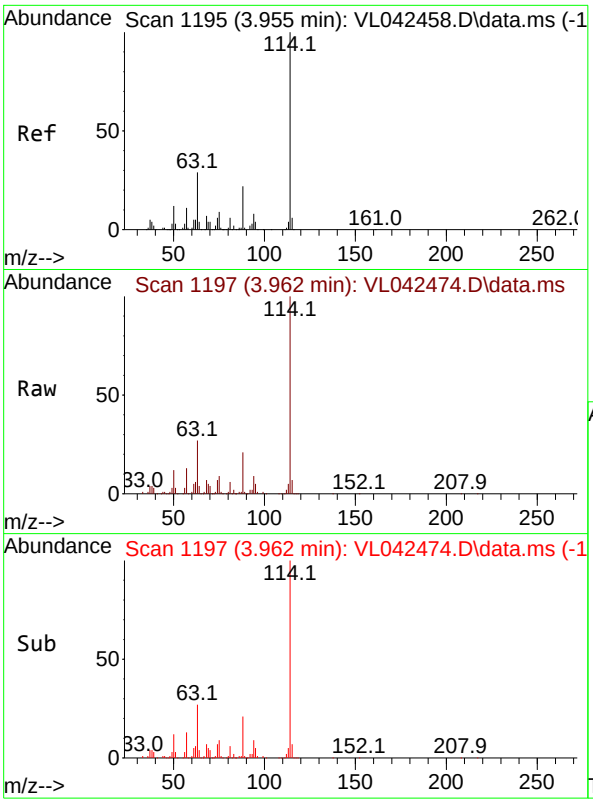


#27
Carbon Disulfide
Concen: 0.669 ppbv
RT: 2.153 min Scan# 638
Delta R.T. 0.007 min
Lab File: VL042474.D
Acq: 05 May 2025 13:11

Tgt Ion: 76 Resp: 7142

Ion	Ratio	Lower	Upper
76	100		
44	296.2	21.0	31.6#
78	14.2	8.6	13.0#

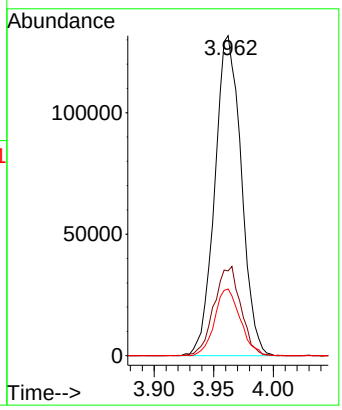




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.962 min Scan# 1
Delta R.T. 0.007 min
Lab File: VL042474.D
Acq: 05 May 2025 13:11

Tgt Ion:114 Resp: 20329

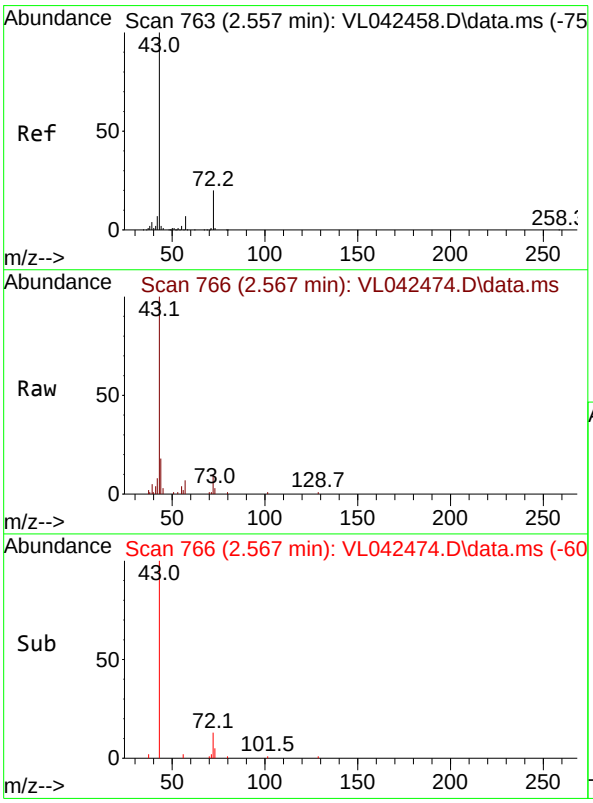
Ion	Ratio	Lower	Upper
114	100		
63	28.2	23.1	34.7
88	20.3	16.1	24.1



Instrument :
MSVOA_L
ClientSampleId :
EBR-P04-SC-SS01-20250428

Manual Integrations
APPROVED

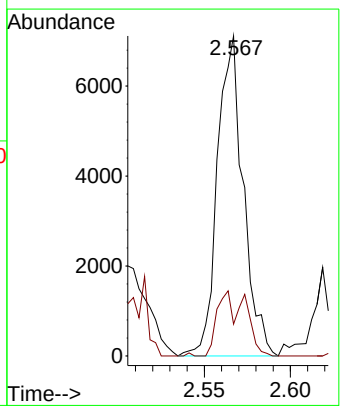
Reviewed By :Semsettin Yesilyurt 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

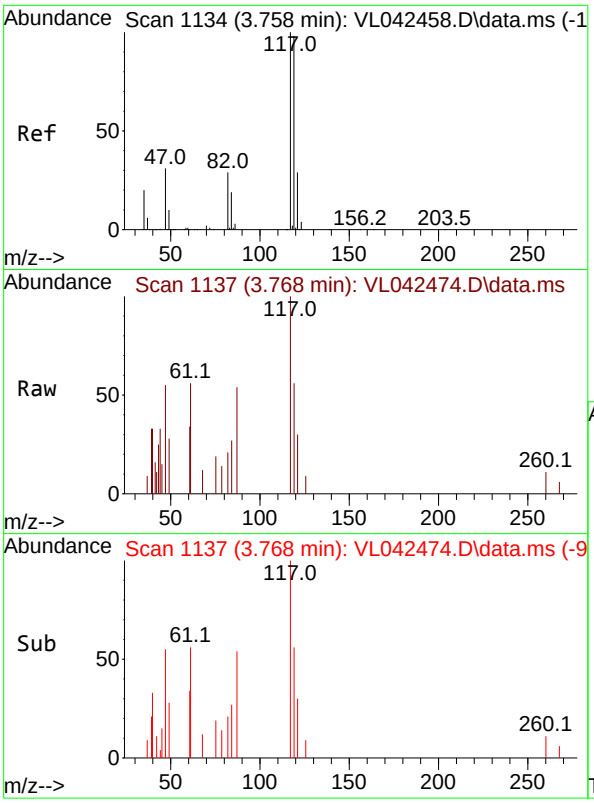


#34
2-Butanone
Concen: 0.506 ppbv
RT: 2.567 min Scan# 766
Delta R.T. 0.010 min
Lab File: VL042474.D
Acq: 05 May 2025 13:11

Tgt Ion: 43 Resp: 7445

Ion	Ratio	Lower	Upper
43	100		
72	22.1	16.7	25.1

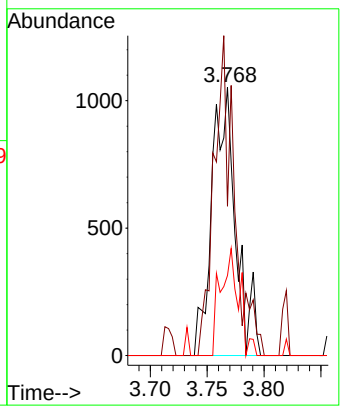




#35
Carbon Tetrachloride
Concen: 0.083 ppbv m
RT: 3.768 min Scan# 1
Delta R.T. 0.010 min
Lab File: VL042474.D
Acq: 05 May 2025 13:11

Tgt Ion:117 Resp: 154

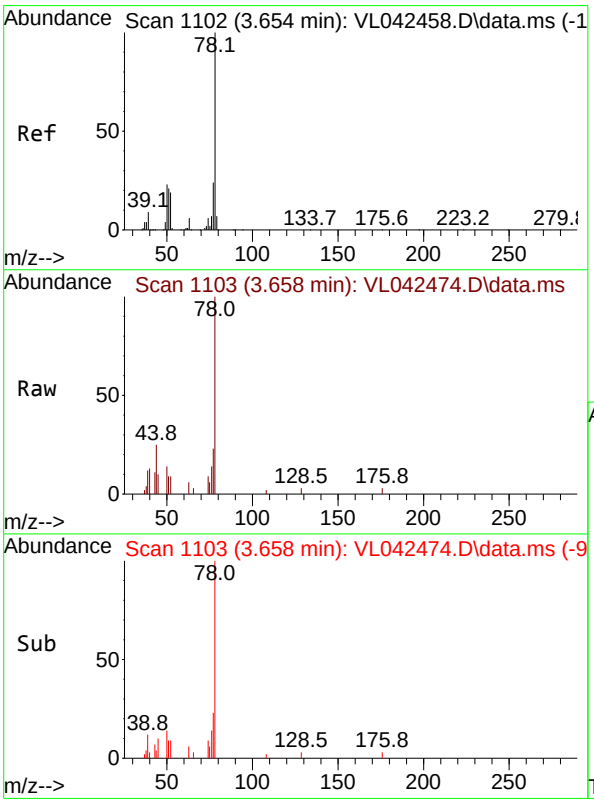
Ion	Ratio	Lower	Upper
117	100		
119	55.7	78.1	117.1#
121	29.8	23.0	34.6



Instrument :
MSVOA_L
ClientSampleId :
EBR-P04-SC-SS01-20250428

Manual Integrations
APPROVED

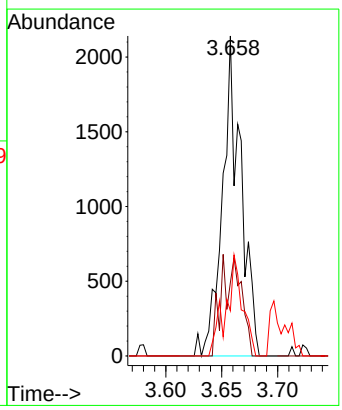
Reviewed By :Semsettin Yesilyurt 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

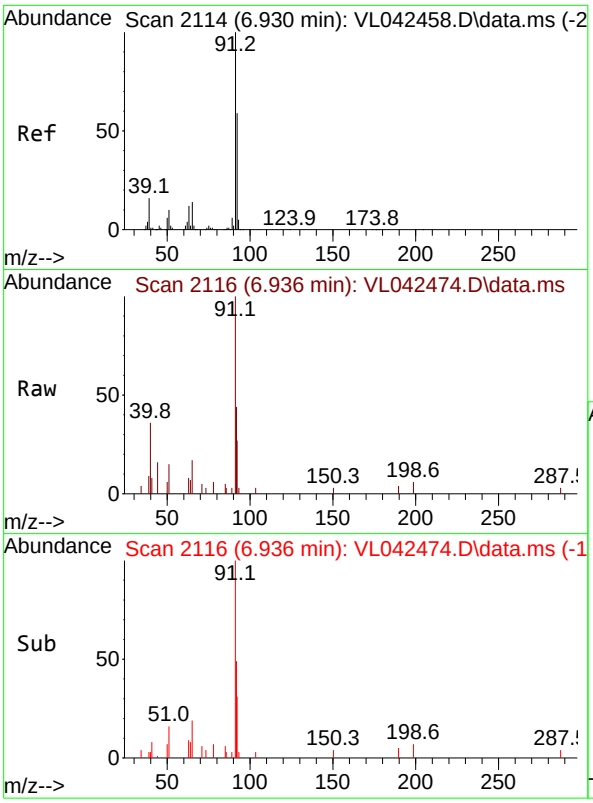


#36
Benzene
Concen: 0.129 ppbv m
RT: 3.658 min Scan# 1103
Delta R.T. 0.003 min
Lab File: VL042474.D
Acq: 05 May 2025 13:11

Tgt Ion: 78 Resp: 2476

Ion	Ratio	Lower	Upper
78	100		
77	22.9	18.9	28.3
50	14.2	18.4	27.6#





#53
Toluene
Concen: 0.163 ppbv m
RT: 6.936 min Scan# 21
Delta R.T. 0.007 min
Lab File: VL042474.D
Acq: 05 May 2025 13:11

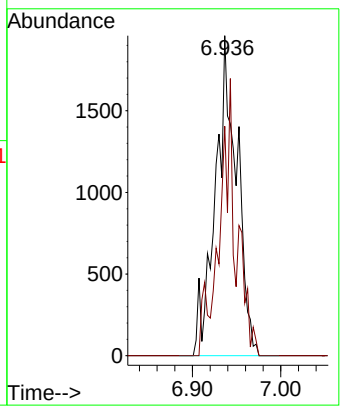
Tgt Ion: 91 Resp: 330

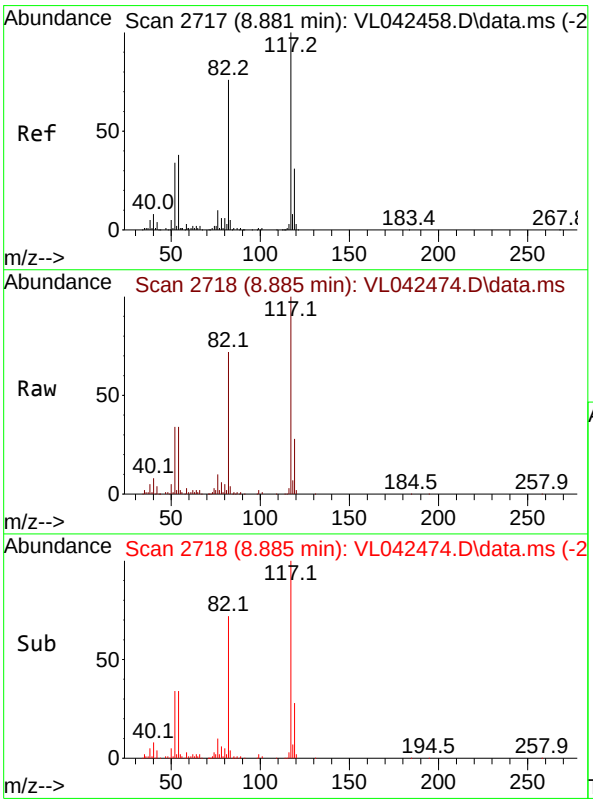
Ion	Ratio	Lower	Upper
91	100		
92	67.5	47.9	71.9

Instrument :
MSVOA_L
ClientSampleId :
EBR-P04-SC-SS01-20250428

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

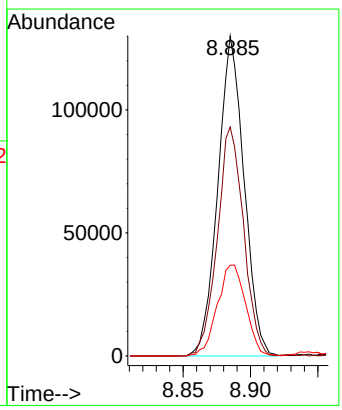


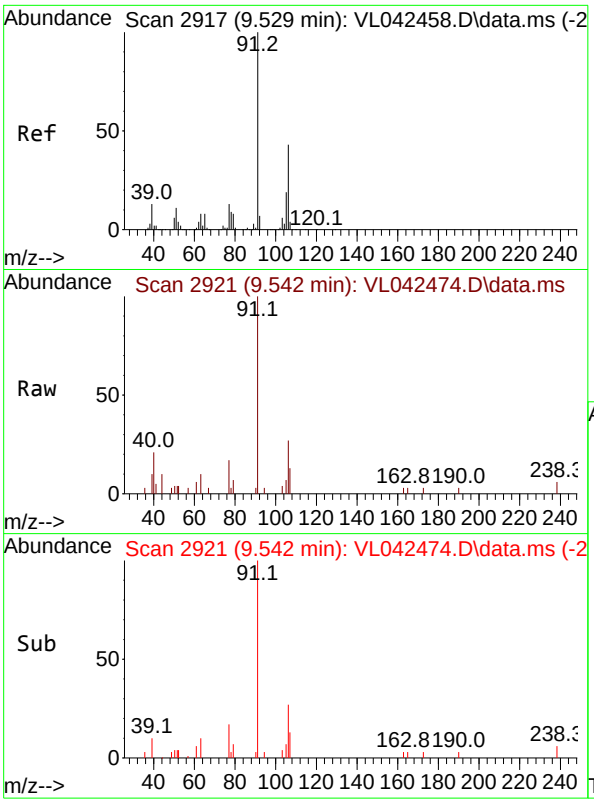


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.885 min Scan# 2718
Delta R.T. 0.003 min
Lab File: VL042474.D
Acq: 05 May 2025 13:11

Tgt Ion:117 Resp: 175917

Ion	Ratio	Lower	Upper
117	100		
82	72.0	63.5	95.3
119	30.7	25.8	38.8

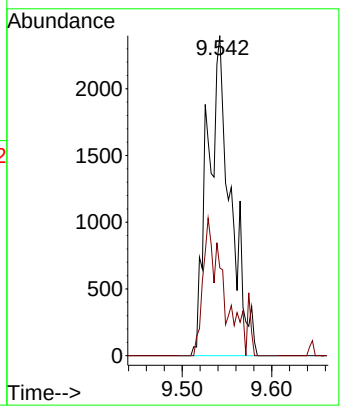




#59
m/p-Xylene
Concen: 0.171 ppbv m
RT: 9.542 min Scan# 2
Delta R.T. 0.013 min
Lab File: VL042474.D
Acq: 05 May 2025 13:11

Tgt Ion: 91 Resp: 422

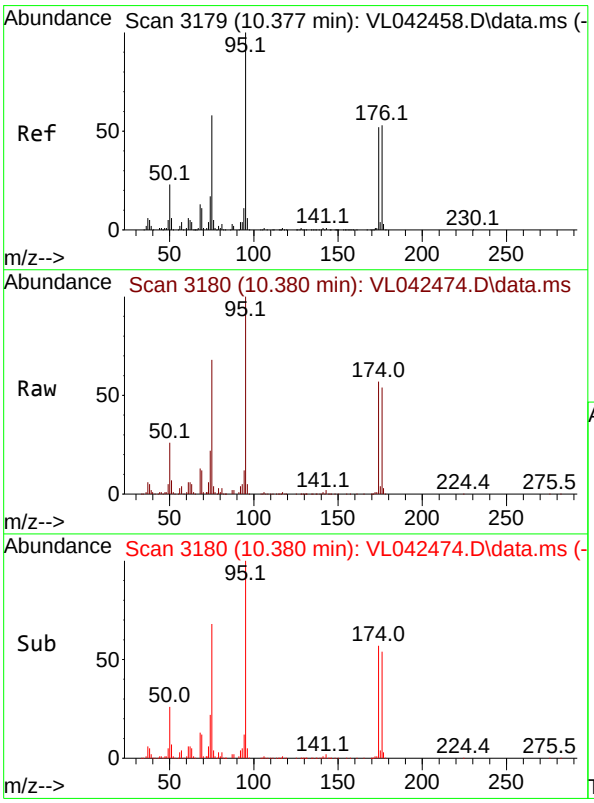
Ion	Ratio	Lower	Upper
91	100		
106	41.1	34.2	51.2



Instrument :
MSVOA_L
ClientSampleId :
EBR-P04-SC-SS01-20250428

Manual Integrations
APPROVED

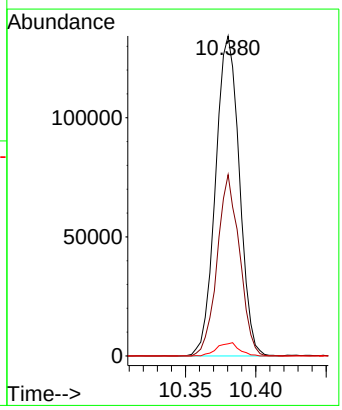
Reviewed By :Semsettin Yesilyurt 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025



#68
1-Bromo-4-Fluorobenzene
Concen: 9.708 ppbv
RT: 10.380 min Scan# 3180
Delta R.T. 0.003 min
Lab File: VL042474.D
Acq: 05 May 2025 13:11

Tgt Ion: 95 Resp: 158342

Ion	Ratio	Lower	Upper
95	100		
174	53.3	42.7	64.1
175	3.9	3.6	5.4



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

Report of Analysis

Client:	Tetra Tech, EMI	Date Collected:	04/29/25
Project:	R36900	Date Received:	04/30/25
Client Sample ID:	EBR-P03-SC-SS01-20250428	SDG No.:	Q1927
Lab Sample ID:	Q1927-04	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
VL042475.D	1		05/05/25 14:44	VL050525

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.56	2.77		1.04	2.47	ug/m3
74-87-3	Chloromethane	0.67	1.38		0.21	1.03	ug/m3
75-01-4	Vinyl Chloride	0.030	0.080	U	0.030	0.080	ug/m3
74-83-9	Bromomethane	0.50	1.94	U	0.54	1.94	ug/m3
75-00-3	Chloroethane	0.50	1.32	U	0.45	1.32	ug/m3
109-99-9	Tetrahydrofuran	0.50	1.47	U	0.38	1.47	ug/m3
75-69-4	Trichlorofluoromethane	0.50	2.81	U	0.90	2.81	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	0.50	3.83	U	1.23	3.83	ug/m3
76-14-2	Dichlorotetrafluoroethane	0.50	3.49	U	0.63	3.49	ug/m3
75-65-0	tert-Butyl alcohol	5.10	15.5		0.58	1.52	ug/m3
142-82-5	Heptane	5.20	21.3		0.45	2.05	ug/m3
75-35-4	1,1-Dichloroethene	0.50	1.98	U	0.56	1.98	ug/m3
67-64-1	Acetone	40.6	96.4	E	0.57	1.19	ug/m3
75-15-0	Carbon Disulfide	1.40	4.36		0.50	1.56	ug/m3
1634-04-4	Methyl tert-Butyl Ether	0.50	1.80	U	0.43	1.80	ug/m3
75-09-2	Methylene Chloride	1.10	3.82		0.66	1.74	ug/m3
156-60-5	trans-1,2-Dichloroethene	0.50	1.98	U	0.75	1.98	ug/m3
75-34-3	1,1-Dichloroethane	0.50	2.02	U	0.53	2.02	ug/m3
110-82-7	Cyclohexane	0.50	1.72	U	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	0.060	0.38		0.060	0.19	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.50	1.98	U	0.36	1.98	ug/m3
67-66-3	Chloroform	0.20	0.98	J	0.39	2.44	ug/m3
71-55-6	1,1,1-Trichloroethane	0.030	0.16	U	0.050	0.16	ug/m3
540-84-1	2,2,4-Trimethylpentane	0.50	2.34	U	0.47	2.34	ug/m3
71-43-2	Benzene	0.56	1.79		0.29	1.60	ug/m3
107-06-2	1,2-Dichloroethane	0.50	2.02	U	0.36	2.02	ug/m3
79-01-6	Trichloroethene	0.030	0.16	U	0.11	0.16	ug/m3
78-87-5	1,2-Dichloropropane	0.50	2.31	U	0.51	2.31	ug/m3
75-27-4	Bromodichloromethane	0.50	3.35	U	0.54	3.35	ug/m3
108-10-1	4-Methyl-2-Pentanone	0.50	2.05	U	0.37	2.05	ug/m3
108-88-3	Toluene	0.73	2.75		0.41	1.88	ug/m3
10061-02-6	t-1,3-Dichloropropene	0.50	2.27	U	0.27	2.27	ug/m3
10061-01-5	cis-1,3-Dichloropropene	0.50	2.27	U	0.27	2.27	ug/m3
79-00-5	1,1,2-Trichloroethane	0.50	2.73	U	0.38	2.73	ug/m3

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

Report of Analysis

Client:	Tetra Tech, EMI	Date Collected:	04/29/25
Project:	R36900	Date Received:	04/30/25
Client Sample ID:	EBR-P03-SC-SS01-20250428	SDG No.:	Q1927
Lab Sample ID:	Q1927-04	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
VL042475.D	1		05/05/25 14:44	VL050525

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	0.50	4.26	U	0.60	4.26	ug/m3
106-93-4	1,2-Dibromoethane	0.10	0.77	U	0.54	0.77	ug/m3
127-18-4	Tetrachloroethene	0.030	0.20	U	0.14	0.20	ug/m3
108-90-7	Chlorobenzene	0.50	2.30	U	0.37	2.30	ug/m3
100-41-4	Ethyl Benzene	0.39	1.69	J	0.52	2.17	ug/m3
179601-23-1	m/p-Xylene	1.50	6.52		0.91	4.34	ug/m3
95-47-6	o-Xylene	0.69	3.00		0.52	2.17	ug/m3
100-42-5	Styrene	0.50	2.13	U	0.47	2.13	ug/m3
75-25-2	Bromoform	0.50	5.17	U	0.62	5.17	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	0.030	0.21	U	0.070	0.21	ug/m3
95-49-8	2-Chlorotoluene	0.50	2.59	U	0.57	2.59	ug/m3
108-67-8	1,3,5-Trimethylbenzene	0.50	2.46	U	0.54	2.46	ug/m3
95-63-6	1,2,4-Trimethylbenzene	0.50	2.46	U	0.39	2.46	ug/m3
541-73-1	1,3-Dichlorobenzene	0.50	3.01	U	0.48	3.01	ug/m3
106-46-7	1,4-Dichlorobenzene	0.50	3.01	U	0.30	3.01	ug/m3
95-50-1	1,2-Dichlorobenzene	0.50	3.01	U	0.48	3.01	ug/m3
120-82-1	1,2,4-Trichlorobenzene	0.50	3.71	U	0.67	3.71	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	0.50	5.33	U	0.96	5.33	ug/m3
106-99-0	1,3-Butadiene	0.50	1.11	U	0.29	1.11	ug/m3
91-20-3	Naphthalene	0.10	0.52	U	0.42	0.52	ug/m3
622-96-8	4-Ethyltoluene	0.50	2.46	U	0.59	2.46	ug/m3
110-54-3	Hexane	16.0	56.4	E	0.39	1.76	ug/m3
107-05-1	Allyl Chloride	0.50	1.57	U	0.47	1.57	ug/m3
123-91-1	1,4-Dioxane	0.50	1.80	U	0.76	1.80	ug/m3
80-62-6	Methyl Methacrylate	0.50	2.05	U	0.37	2.05	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	10.1			65 - 135	101%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	76900		2.794			
540-36-3	1,4-Difluorobenzene	214000		3.968			
3114-55-4	Chlorobenzene-d5	190000		8.891			

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

Report of Analysis

Client:	Tetra Tech, EMI	Date Collected:	04/29/25
Project:	R36900	Date Received:	04/30/25
Client Sample ID:	EBR-P03-SC-SS01-20250428	SDG No.:	Q1927
Lab Sample ID:	Q1927-04	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
VL042475.D	1		05/05/25 14:44	VL050525

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\VL050525\
Data File : VL042475.D
Acq On : 05 May 2025 14:44
Operator : SY/MD
Sample : Q1927-04
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 06 01:41:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri May 02 03:16:31 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
EBR-P03-SC-SS01-20250428

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.794	49	76909	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.968	114	213607	10.000	ppbv		0.01
55) Chlorobenzene-d5	8.891	117	190161	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.383	95	177304	10.057	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 100.600%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.499	85	7173	0.564	ppbv		98
4) Chloromethane	1.531	50	3569	0.671	ppbv	#	78
9) Propene	1.483	41	48486	11.016	ppbv		87
10) Heptane	4.991	43	59816	5.239	ppbv		91
13) Ethanol	1.725	45	73185	81.939	ppbv		96
15) Acetone	1.839	43	569403	40.557	ppbv		100
17) tert-Butyl alcohol	2.046	59	63678	5.148	ppbv		96
19) Isopropyl Alcohol	1.891	45	24033	3.093	ppbv	#	1
20) Methylene Chloride	2.065	84	4735	1.122	ppbv		91
26) Hexane	2.832	57	156355	15.965	ppbv	#	37
27) Carbon Disulfide	2.156	76	16500	1.444	ppbv	#	1
29) Chloroform	2.855	83	3718m	0.203	ppbv		
34) 2-Butanone	2.564	43	32498	2.103	ppbv	#	91
35) Carbon Tetrachloride	3.765	117	1131m	0.058	ppbv		
36) Benzene	3.664	78	11366	0.564	ppbv	#	88
53) Toluene	6.946	91	15576m	0.730	ppbv		
58) Ethyl Benzene	9.361	91	12254	0.386	ppbv		97
59) m/p-Xylene	9.539	91	40302	1.513	ppbv		98
60) o-Xylene	9.972	91	18356	0.688	ppbv		99

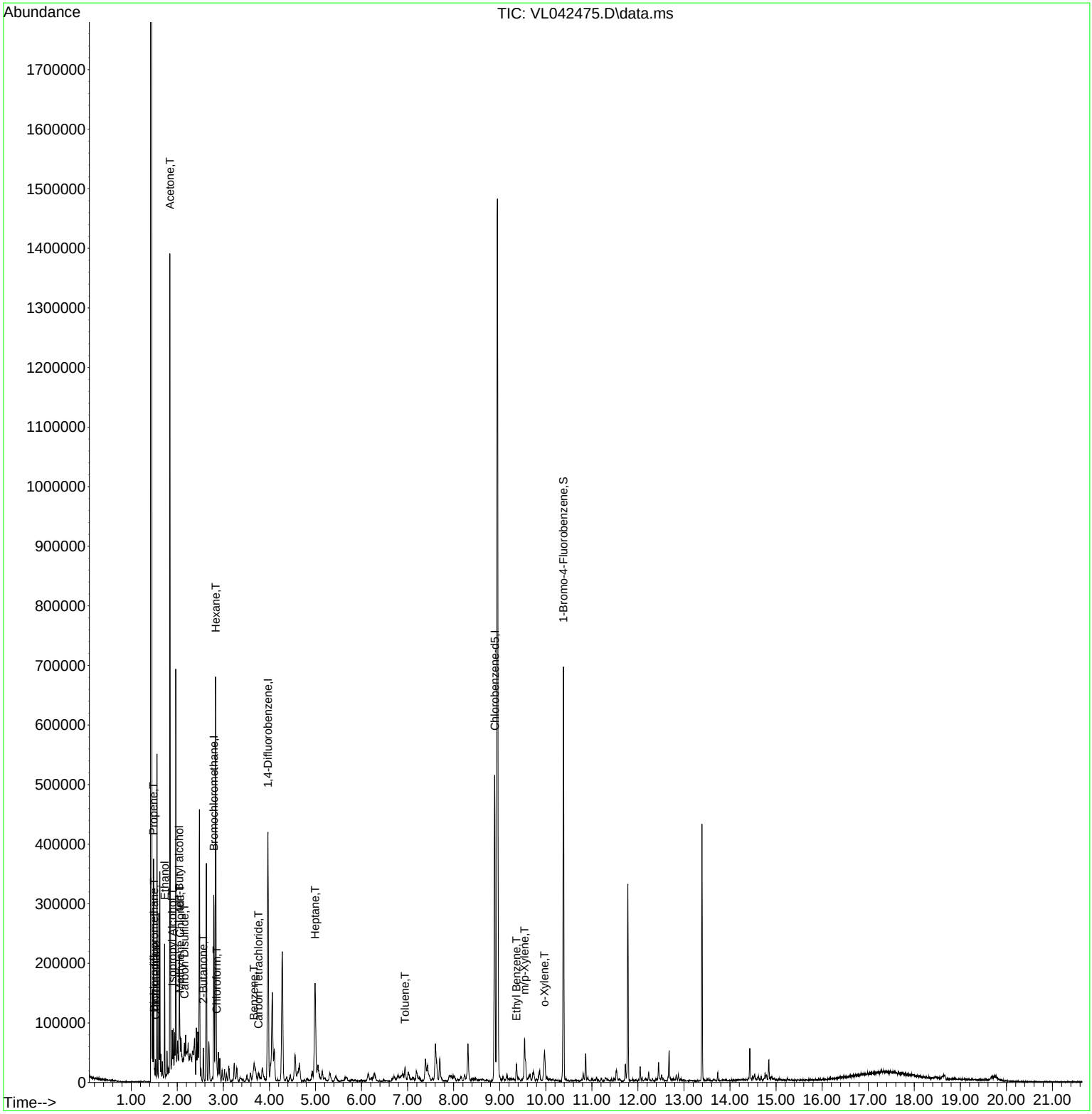
(#) = qualifier out of range (m) = manual integration (+) = signals summed

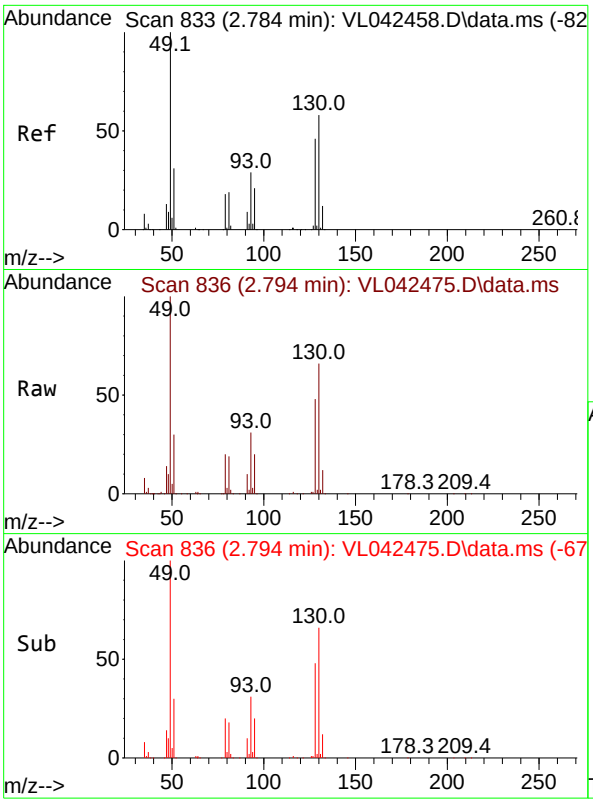
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050525\
Data File : VL042475.D
Acq On : 05 May 2025 14:44
Operator : SY/MD
Sample : Q1927-04
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 06 01:41:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri May 02 03:16:31 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
EBR-P03-SC-SS01-20250428

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

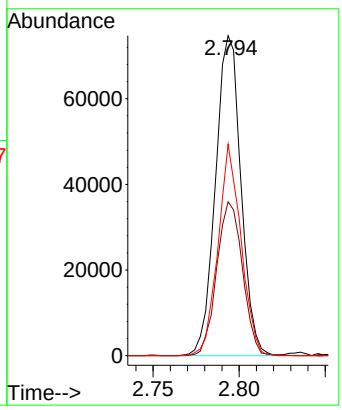




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.794 min Scan# 8
Delta R.T. 0.010 min
Lab File: VL042475.D
Acq: 05 May 2025 14:44

Tgt Ion: 49 Resp: 7690

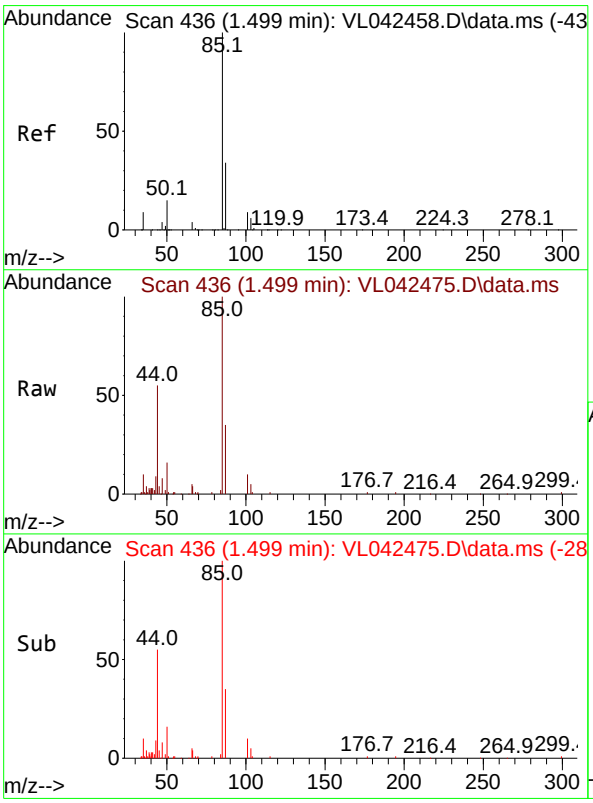
Ion	Ratio	Lower	Upper
49	100		
128	48.7	23.3	69.9
130	59.6	29.5	88.6



Instrument :
MSVOA_L
ClientSampleId :
EBR-P03-SC-SS01-20250428

Manual Integrations
APPROVED

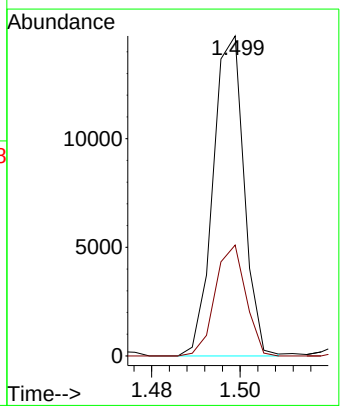
Reviewed By :Semsettin Yesilyurt 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

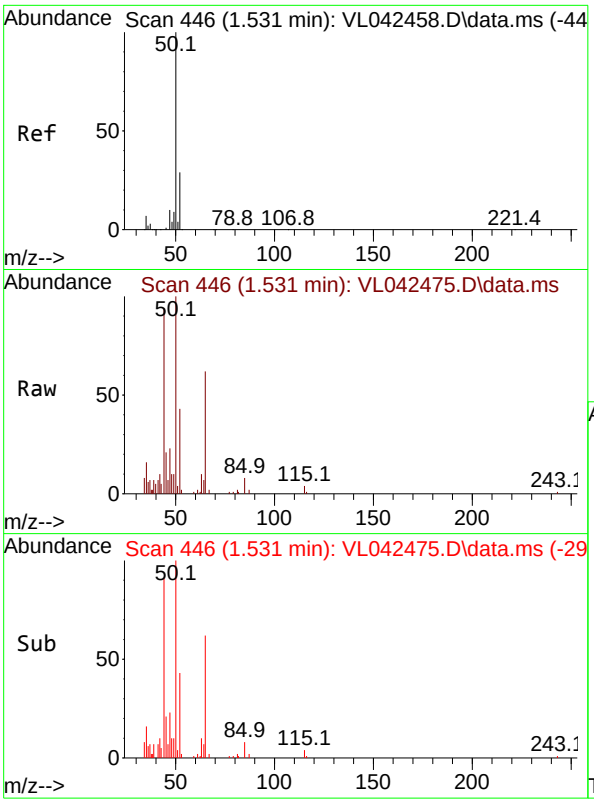


#2
Dichlorodifluoromethane
Concen: 0.564 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.000 min
Lab File: VL042475.D
Acq: 05 May 2025 14:44

Tgt Ion: 85 Resp: 7173

Ion	Ratio	Lower	Upper
85	100		
87	34.7	26.9	40.3

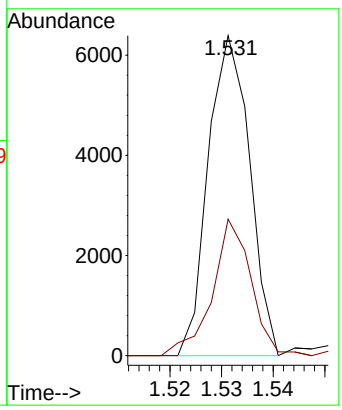




#4
Chloromethane
Concen: 0.671 ppbv
RT: 1.531 min Scan# 44
Delta R.T. 0.000 min
Lab File: VL042475.D
Acq: 05 May 2025 14:44

Tgt Ion: 50 Resp: 356

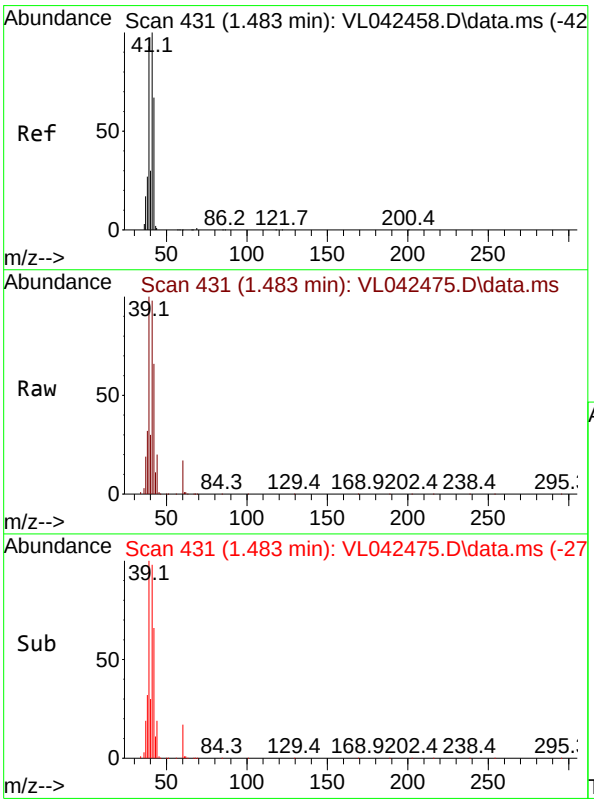
Ion	Ratio	Lower	Upper
50	100		
52	41.5	23.5	35.3



Instrument :
MSVOA_L
ClientSampleId :
EBR-P03-SC-SS01-20250428

Manual Integrations
APPROVED

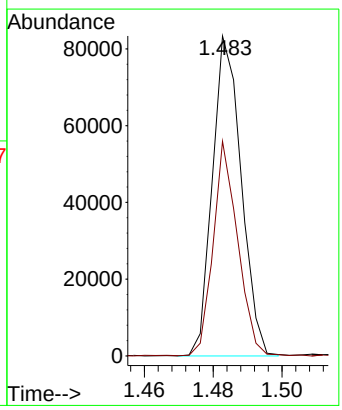
Reviewed By :Semsettin Yesilyurt 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

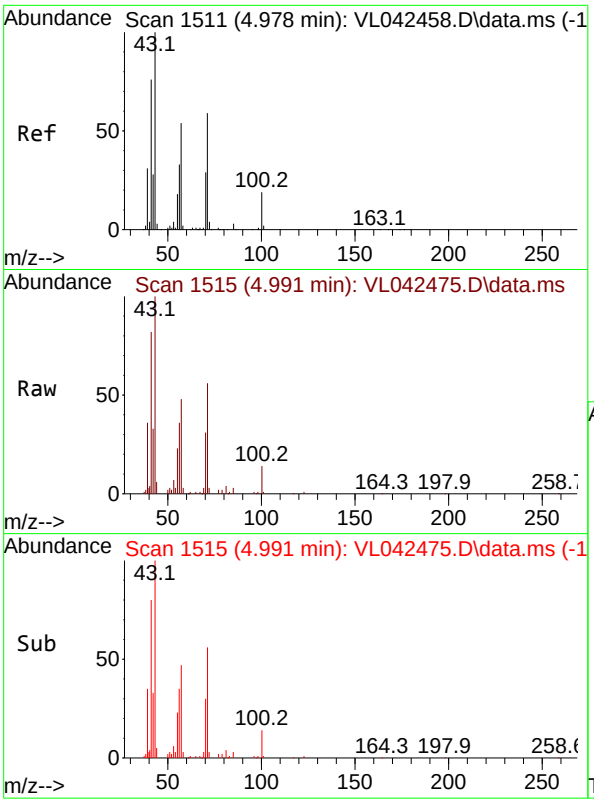


#9
Propene
Concen: 11.016 ppbv
RT: 1.483 min Scan# 431
Delta R.T. 0.000 min
Lab File: VL042475.D
Acq: 05 May 2025 14:44

Tgt Ion: 41 Resp: 48486

Ion	Ratio	Lower	Upper
41	100		
42	57.5	54.3	81.5

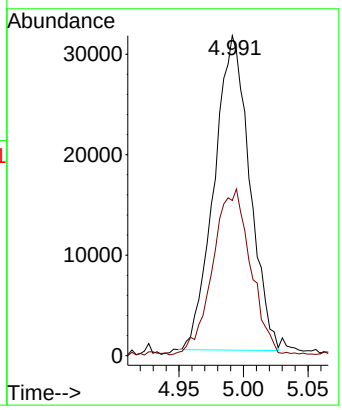




#10
Heptane
Concen: 5.239 ppbv
RT: 4.991 min Scan# 1
Delta R.T. 0.013 min
Lab File: VL042475.D
Acq: 05 May 2025 14:44

Tgt Ion: 43 Resp: 5981

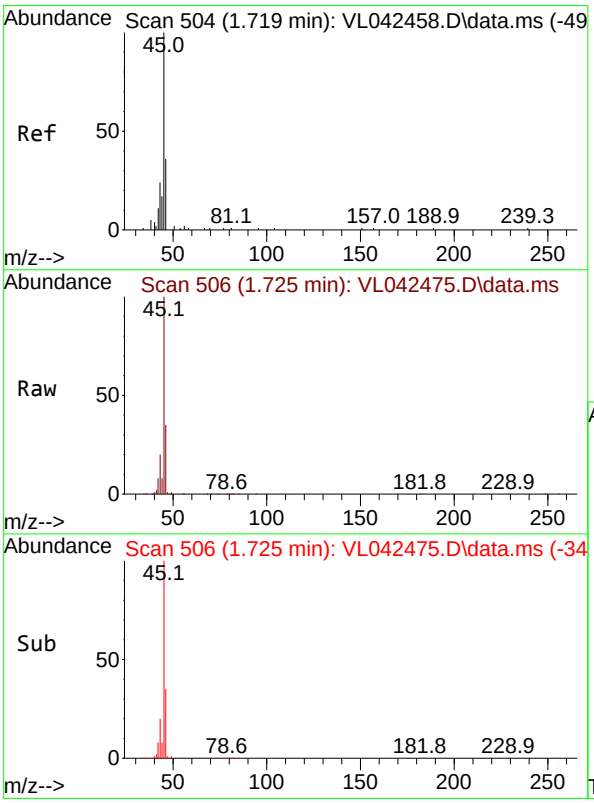
Ion	Ratio	Lower	Upper
43	100		
57	58.6	41.8	62.8



Instrument :
MSVOA_L
ClientSampleId :
EBR-P03-SC-SS01-20250428

Manual Integrations
APPROVED

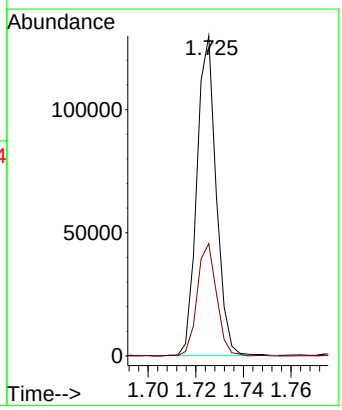
Reviewed By :Semsettin Yesilyurt 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

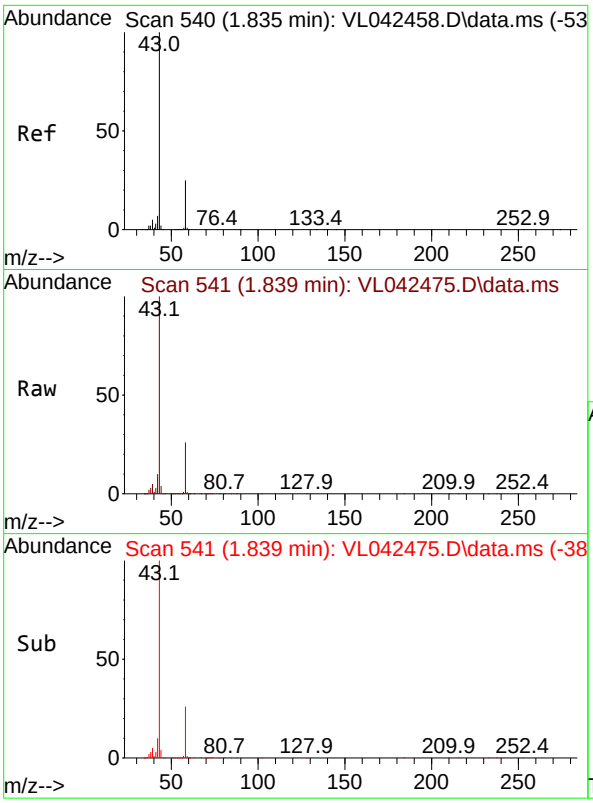


#13
Ethanol
Concen: 81.939 ppbv
RT: 1.725 min Scan# 506
Delta R.T. 0.007 min
Lab File: VL042475.D
Acq: 05 May 2025 14:44

Tgt Ion: 45 Resp: 73185

Ion	Ratio	Lower	Upper
45	100		
46	35.7	15.3	61.1

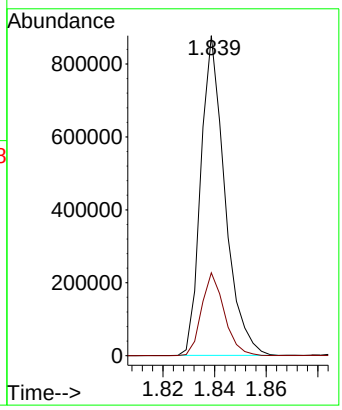




#15
Acetone
Concen: 40.557 ppbv
RT: 1.839 min Scan# 54
Delta R.T. 0.003 min
Lab File: VL042475.D
Acq: 05 May 2025 14:44

Tgt Ion: 43 Resp: 56940

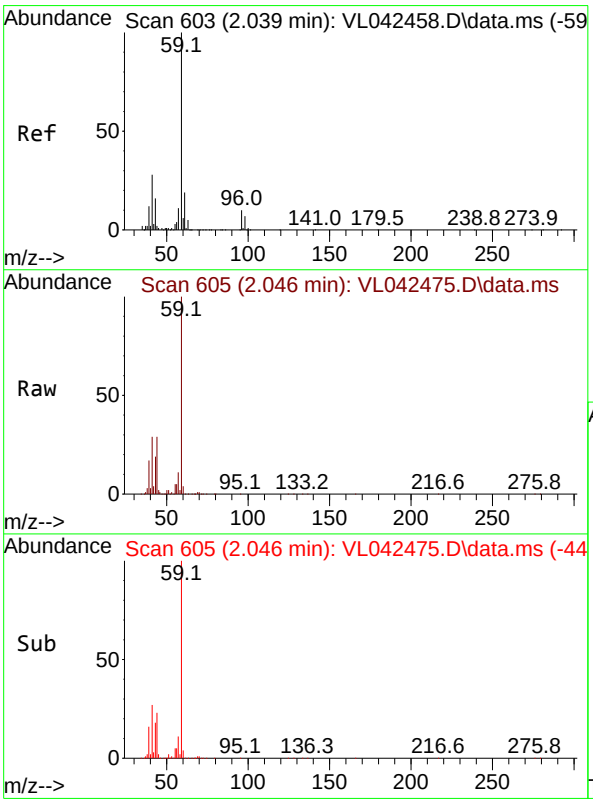
Ion	Ratio	Lower	Upper
43	100		
58	24.6	19.8	29.8



Instrument :
MSVOA_L
ClientSampleId :
EBR-P03-SC-SS01-20250428

Manual Integrations
APPROVED

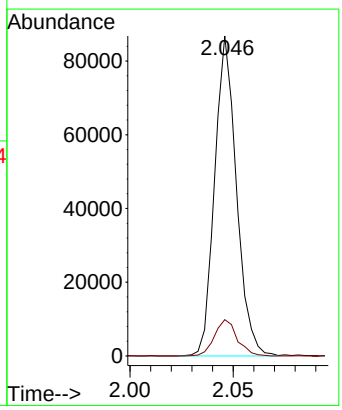
Reviewed By :Semsettin Yesilyurt 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

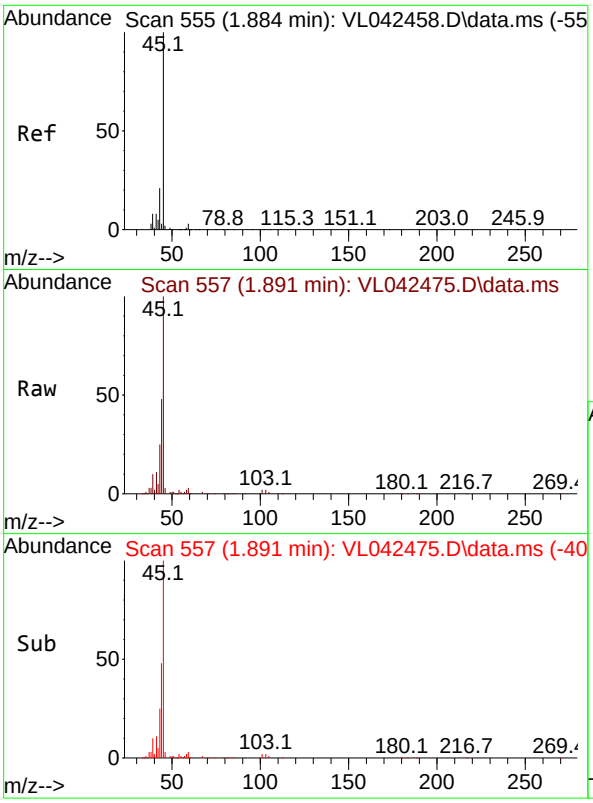


#17
tert-Butyl alcohol
Concen: 5.148 ppbv
RT: 2.046 min Scan# 605
Delta R.T. 0.007 min
Lab File: VL042475.D
Acq: 05 May 2025 14:44

Tgt Ion: 59 Resp: 63678

Ion	Ratio	Lower	Upper
59	100		
57	11.8	8.3	12.5

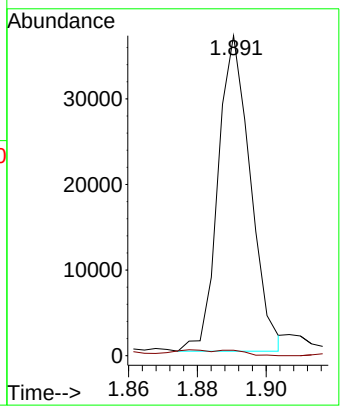




#19
Isopropyl Alcohol
Concen: 3.093 ppbv
RT: 1.891 min Scan# 5
Delta R.T. 0.007 min
Lab File: VL042475.D
Acq: 05 May 2025 14:44

Tgt Ion: 45 Resp: 2403

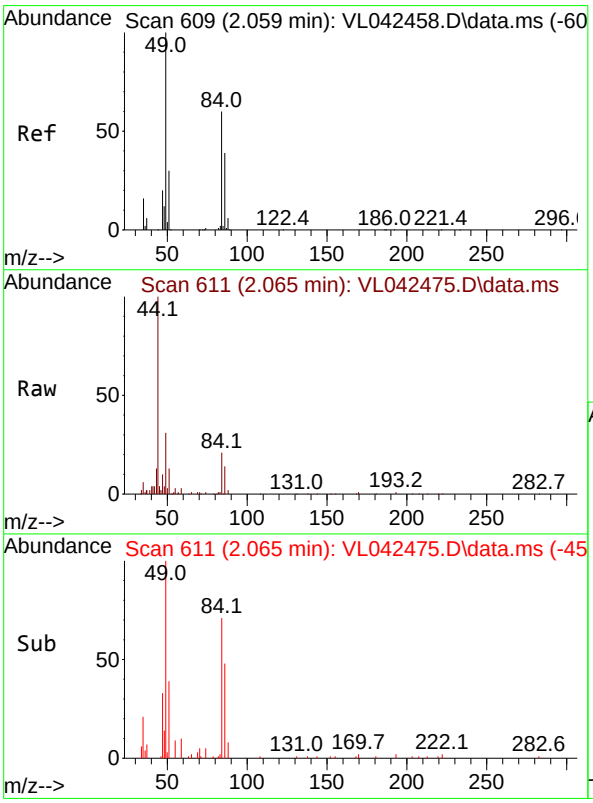
Ion	Ratio	Lower	Upper
45	100		
58	583.6	1.6	2.4



Instrument :
MSVOA_L
ClientSampleId :
EBR-P03-SC-SS01-20250428

Manual Integrations
APPROVED

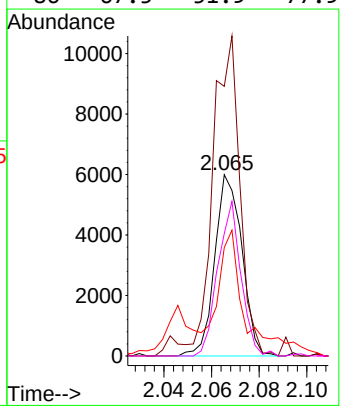
Reviewed By :Semsettin Yesilyurt 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

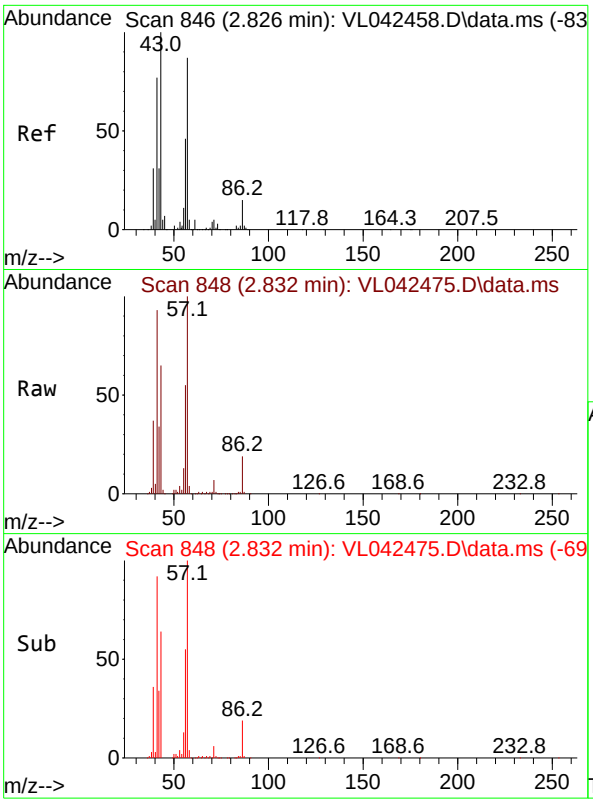


#20
Methylene Chloride
Concen: 1.122 ppbv
RT: 2.065 min Scan# 611
Delta R.T. 0.007 min
Lab File: VL042475.D
Acq: 05 May 2025 14:44

Tgt Ion: 84 Resp: 4735

Ion	Ratio	Lower	Upper
84	100		
49	148.7	133.9	200.9
51	49.8	41.0	61.6
86	67.5	51.9	77.9

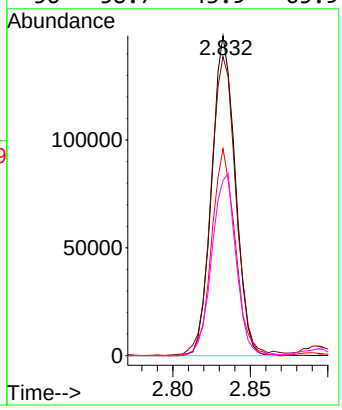




#26
Hexane
Concen: 15.965 ppbv
RT: 2.832 min Scan# 84
Delta R.T. 0.007 min
Lab File: VL042475.D
Acq: 05 May 2025 14:44

Tgt Ion: 57 Resp: 15635

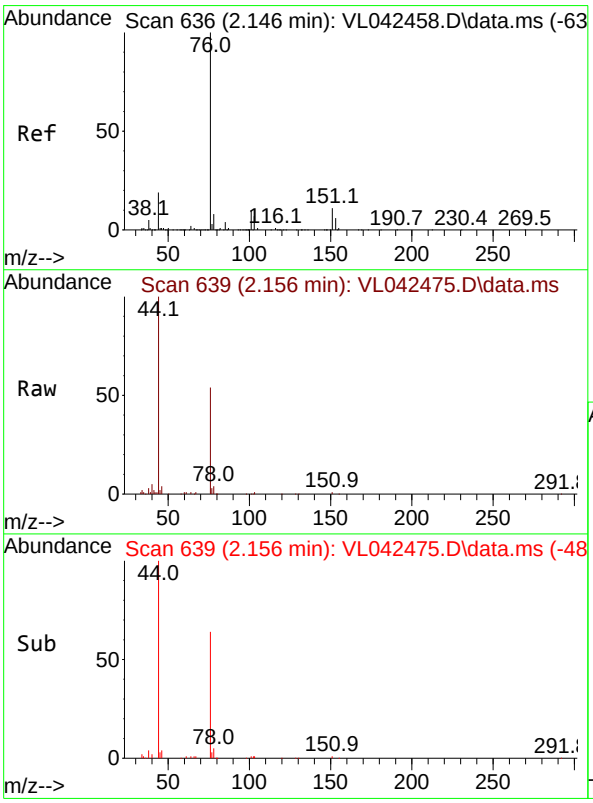
Ion	Ratio	Lower	Upper
57	100		
41	100.1	77.8	116.8
43	65.0	187.0	280.6#
56	58.7	43.9	65.9



Instrument :
MSVOA_L
ClientSampleId :
EBR-P03-SC-SS01-20250428

Manual Integrations
APPROVED

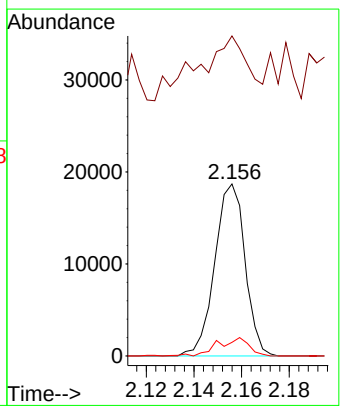
Reviewed By :Semsettin Yesilyurt 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

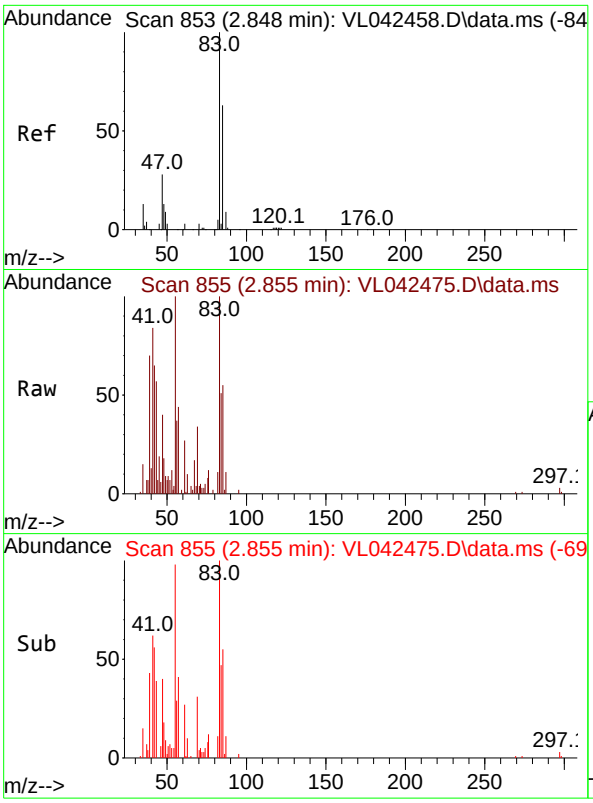


#27
Carbon Disulfide
Concen: 1.444 ppbv
RT: 2.156 min Scan# 639
Delta R.T. 0.010 min
Lab File: VL042475.D
Acq: 05 May 2025 14:44

Tgt Ion: 76 Resp: 16500

Ion	Ratio	Lower	Upper
76	100		
44	824.5	21.0	31.6#
78	11.2	8.6	13.0

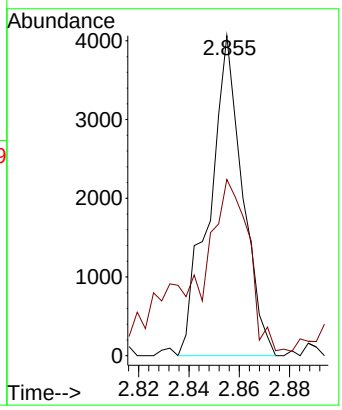




#29
Chloroform
Concen: 0.203 ppbv m
RT: 2.855 min Scan# 8
Delta R.T. 0.007 min
Lab File: VL042475.D
Acq: 05 May 2025 14:44

Tgt Ion: 83 Resp: 371

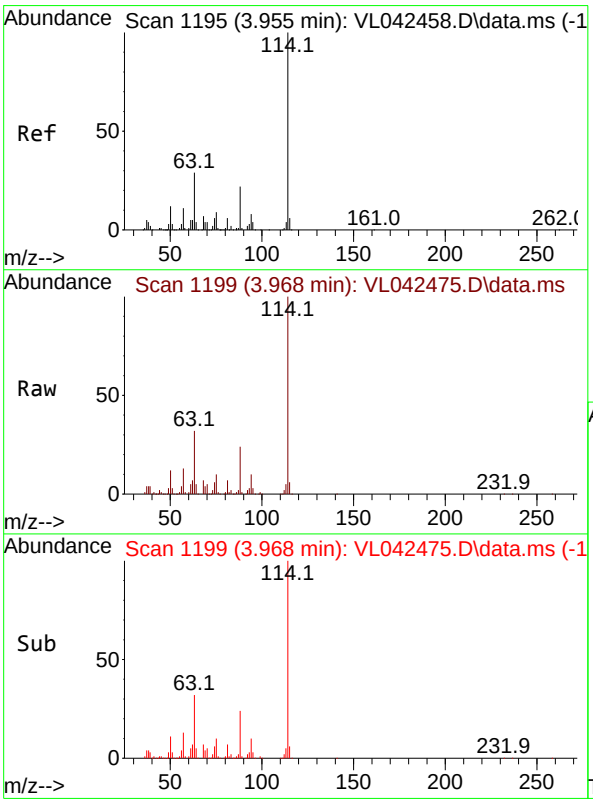
Ion	Ratio	Lower	Upper
83	100		
85	55.0	50.4	75.6



Instrument :
MSVOA_L
ClientSampleId :
EBR-P03-SC-SS01-20250428

Manual Integrations
APPROVED

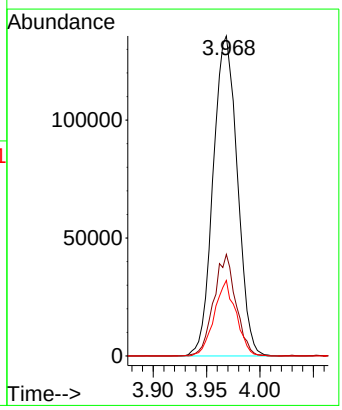
Reviewed By :Semsettin Yesilyurt 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

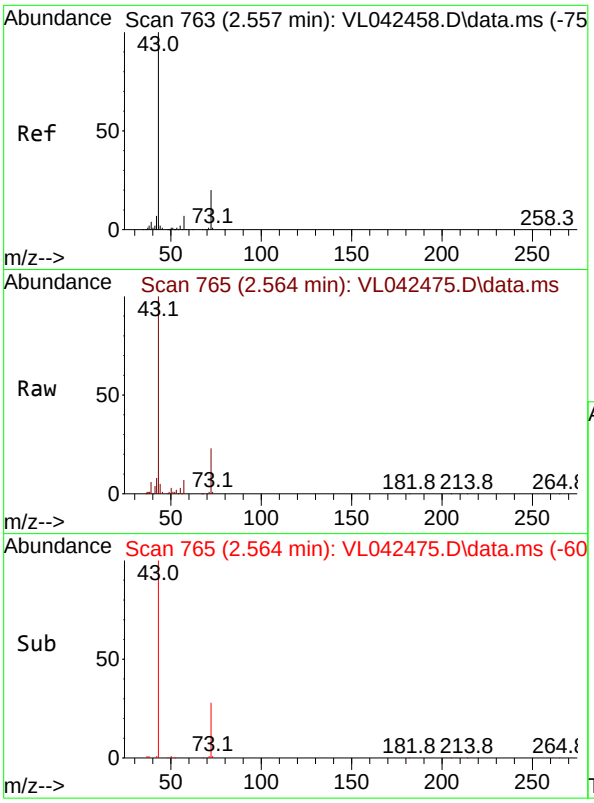


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.968 min Scan# 1199
Delta R.T. 0.013 min
Lab File: VL042475.D
Acq: 05 May 2025 14:44

Tgt Ion:114 Resp: 213607

Ion	Ratio	Lower	Upper
114	100		
63	29.2	23.1	34.7
88	21.4	16.1	24.1

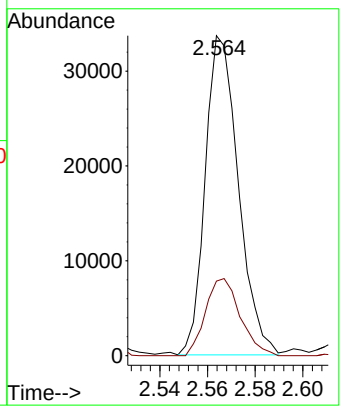




#34
2-Butanone
Concen: 2.103 ppbv
RT: 2.564 min Scan# 7
Delta R.T. 0.007 min
Lab File: VL042475.D
Acq: 05 May 2025 14:44

Tgt Ion: 43 Resp: 3249

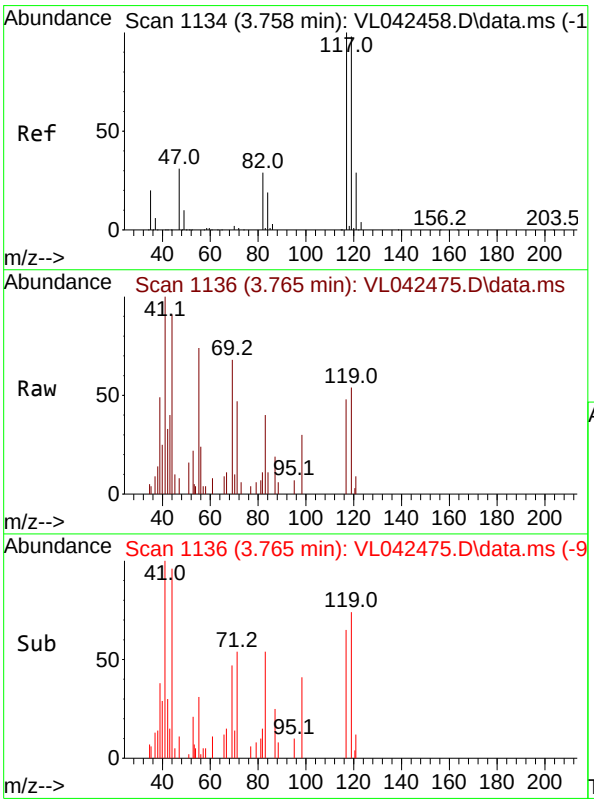
Ion	Ratio	Lower	Upper
43	100		
72	25.3	16.7	25.1#



Instrument :
MSVOA_L
ClientSampleId :
EBR-P03-SC-SS01-20250428

Manual Integrations
APPROVED

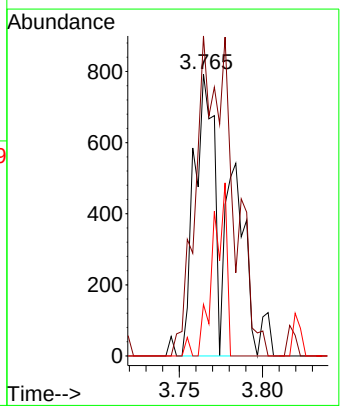
Reviewed By :Semsettin Yesilyurt 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

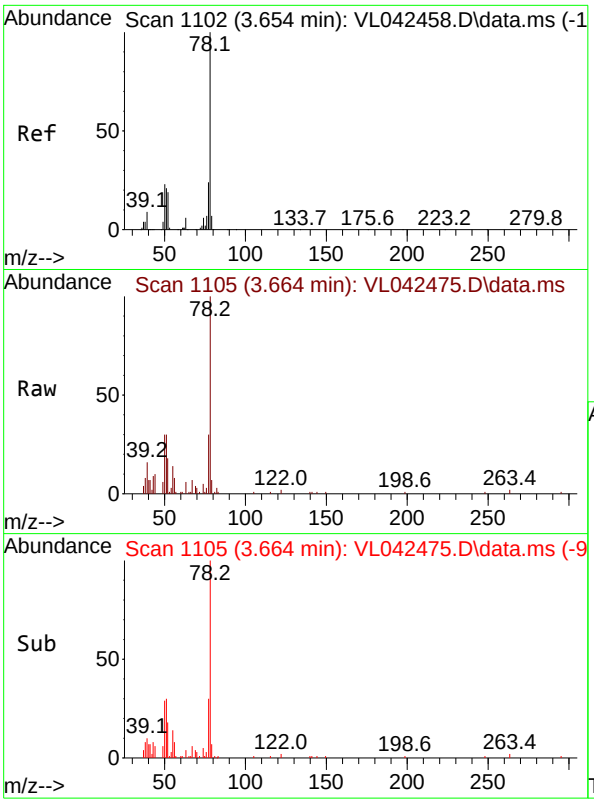


#35
Carbon Tetrachloride
Concen: 0.058 ppbv m
RT: 3.765 min Scan# 1136
Delta R.T. 0.007 min
Lab File: VL042475.D
Acq: 05 May 2025 14:44

Tgt Ion:117 Resp: 1131

Ion	Ratio	Lower	Upper
117	100		
119	113.5	78.1	117.1
121	18.3	23.0	34.6#

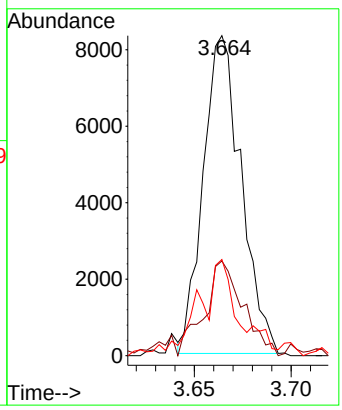




#36
Benzene
Concen: 0.564 ppbv
RT: 3.664 min Scan# 1
Delta R.T. 0.010 min
Lab File: VL042475.D
Acq: 05 May 2025 14:44

Tgt Ion: 78 Resp: 1136

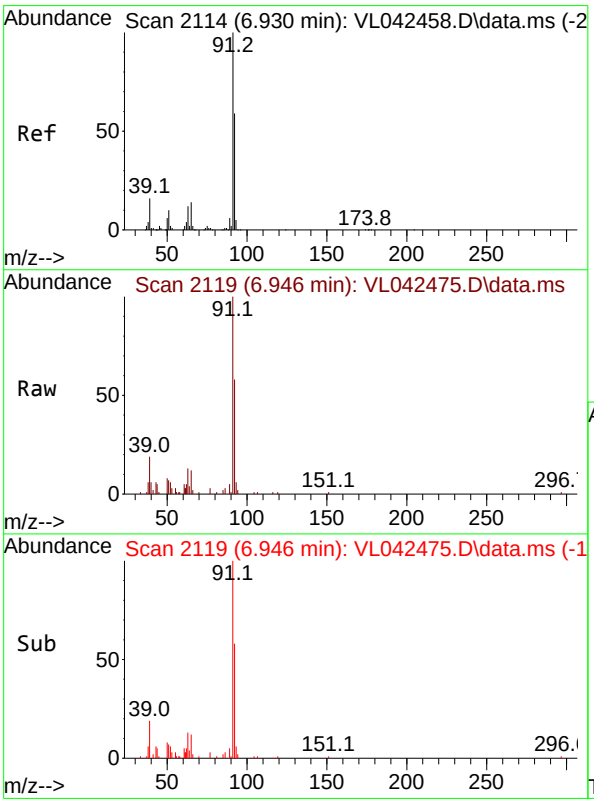
Ion	Ratio	Lower	Upper
78	100		
77	29.8	18.9	28.3#
50	28.4	18.4	27.6#



Instrument :
MSVOA_L
ClientSampleId :
EBR-P03-SC-SS01-20250428

Manual Integrations
APPROVED

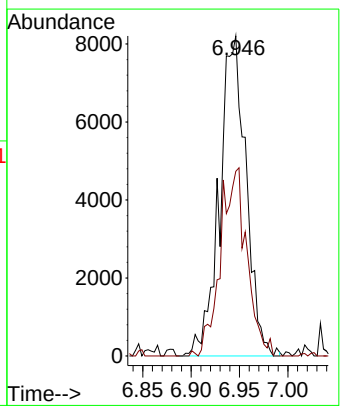
Reviewed By :Semsettin Yesilyurt 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

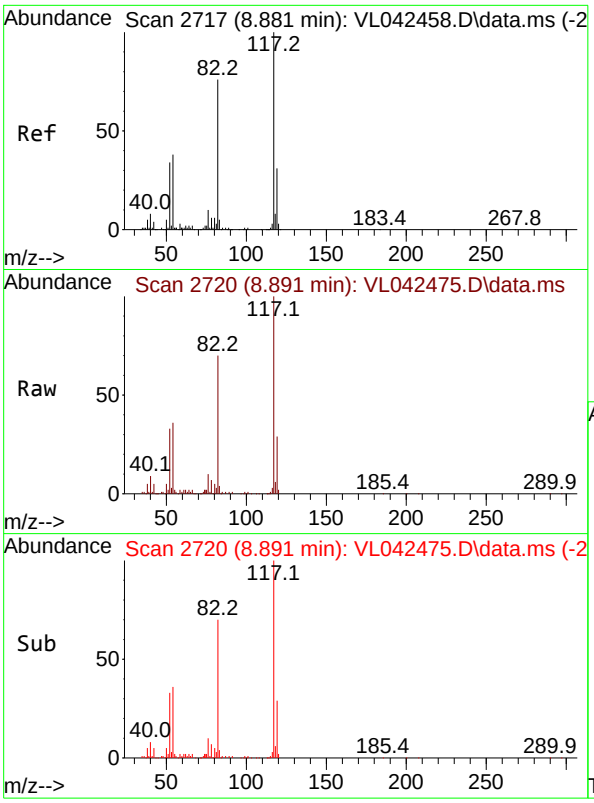


#53
Toluene
Concen: 0.730 ppbv m
RT: 6.946 min Scan# 2119
Delta R.T. 0.016 min
Lab File: VL042475.D
Acq: 05 May 2025 14:44

Tgt Ion: 91 Resp: 15576

Ion	Ratio	Lower	Upper
91	100		
92	58.7	47.9	71.9

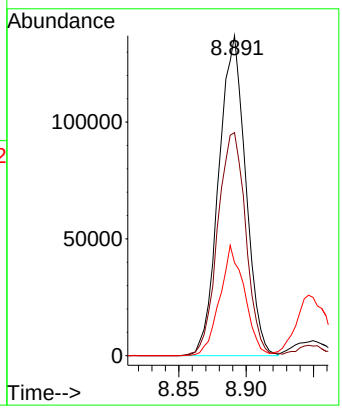




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.891 min Scan# 2
Delta R.T. 0.010 min
Lab File: VL042475.D
Acq: 05 May 2025 14:44

Tgt Ion:117 Resp: 19016

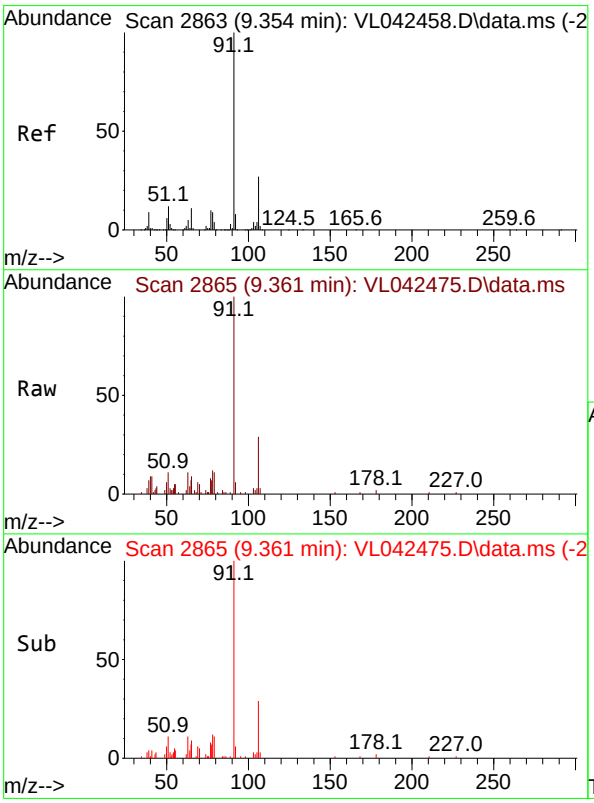
Ion	Ratio	Lower	Upper
117	100		
82	72.8	63.5	95.3
119	32.1	25.8	38.8



Instrument :
MSVOA_L
ClientSampleId :
EBR-P03-SC-SS01-20250428

Manual Integrations
APPROVED

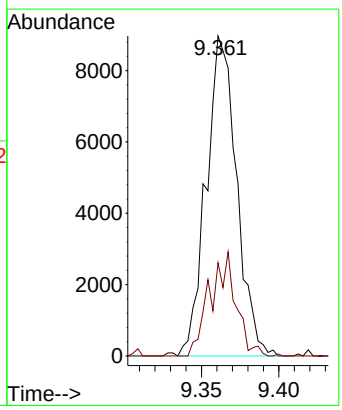
Reviewed By :Semsettin Yesilyurt 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

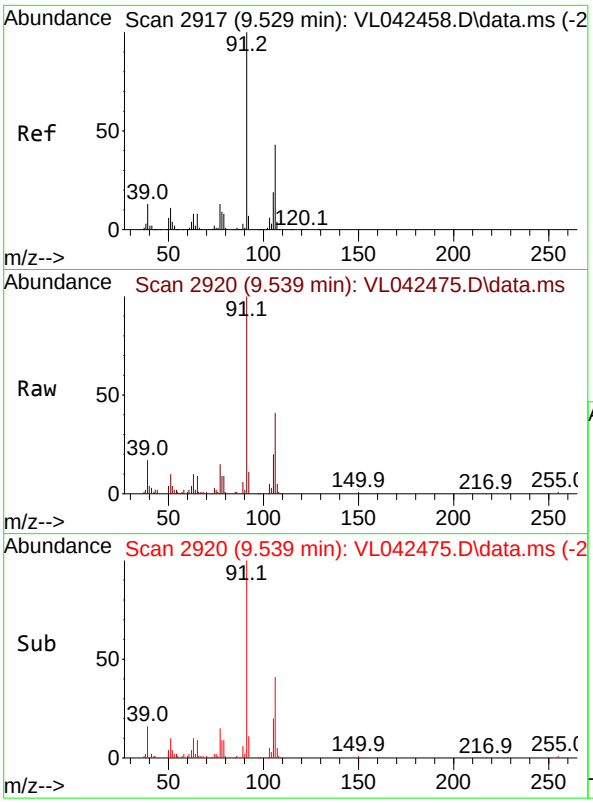


#58
Ethyl Benzene
Concen: 0.386 ppbv
RT: 9.361 min Scan# 2865
Delta R.T. 0.007 min
Lab File: VL042475.D
Acq: 05 May 2025 14:44

Tgt Ion: 91 Resp: 12254

Ion	Ratio	Lower	Upper
91	100		
106	29.1	21.9	32.9





#59
m/p-Xylene
Concen: 1.513 ppbv
RT: 9.539 min Scan# 2
Delta R.T. 0.010 min
Lab File: VL042475.D
Acq: 05 May 2025 14:44

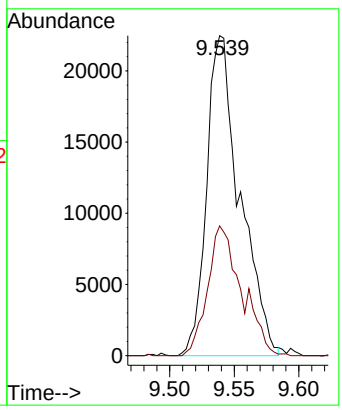
Tgt Ion: 91 Resp: 4030

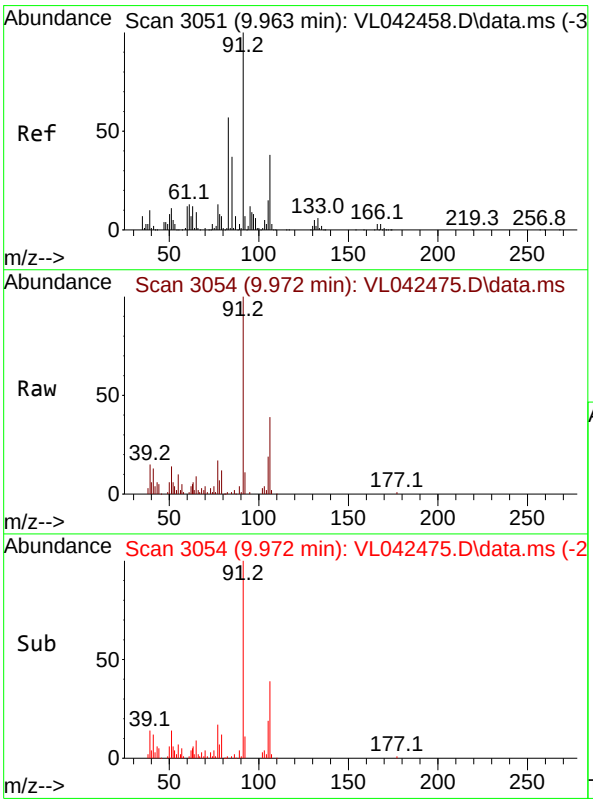
Ion	Ratio	Lower	Upper
91	100		
106	41.4	34.2	51.2

Instrument :
MSVOA_L
ClientSampleId :
EBR-P03-SC-SS01-20250428

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

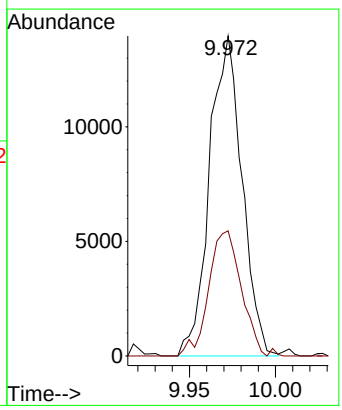


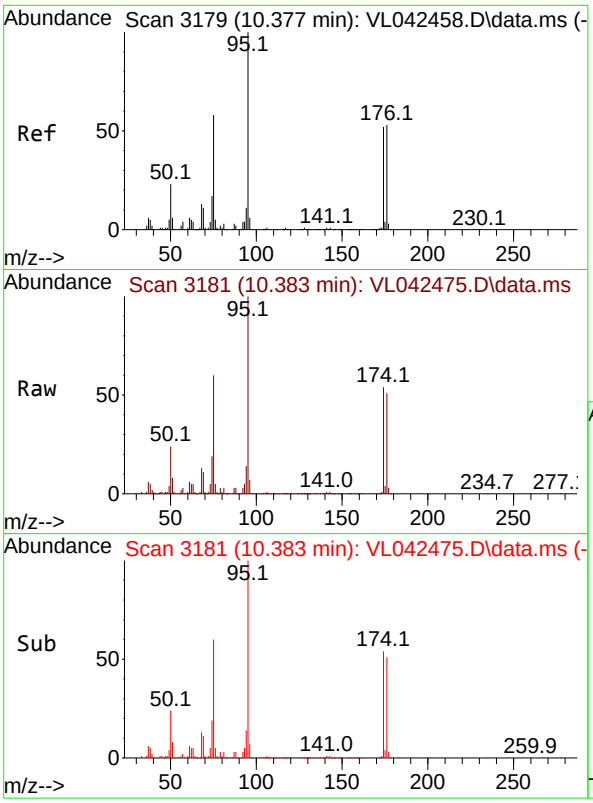


#60
o-Xylene
Concen: 0.688 ppbv
RT: 9.972 min Scan# 3054
Delta R.T. 0.010 min
Lab File: VL042475.D
Acq: 05 May 2025 14:44

Tgt Ion: 91 Resp: 18356

Ion	Ratio	Lower	Upper
91	100		
106	39.5	20.1	60.2

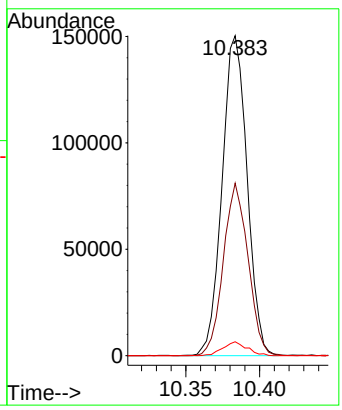




#68
1-Bromo-4-Fluorobenzene
Concen: 10.057 ppbv
RT: 10.383 min Scan# 3
Delta R.T. 0.007 min
Lab File: VL042475.D
Acq: 05 May 2025 14:44

Tgt Ion: 95 Resp: 17730

Ion	Ratio	Lower	Upper
95	100		
174	53.3	42.7	64.1
175	4.2	3.6	5.4



Instrument :
MSVOA_L
ClientSampleId :
EBR-P03-SC-SS01-20250428

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

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

Report of Analysis

Client:	Tetra Tech, EMI	Date Collected:	04/29/25
Project:	R36900	Date Received:	04/30/25
Client Sample ID:	EBR-P03-SC-SS01-20250428DL	SDG No.:	Q1927
Lab Sample ID:	Q1927-04DL	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
VL042473.D	10		05/05/25 11:22	VL050525

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	5.00	24.7	UD	10.4	24.7	ug/m3
74-87-3	Chloromethane	5.00	10.3	UD	2.02	10.3	ug/m3
75-01-4	Vinyl Chloride	0.30	0.77	UD	0.36	0.77	ug/m3
74-83-9	Bromomethane	5.00	19.4	UD	5.44	19.4	ug/m3
75-00-3	Chloroethane	5.00	13.2	UD	4.49	13.2	ug/m3
109-99-9	Tetrahydrofuran	5.00	14.8	UD	3.83	14.8	ug/m3
75-69-4	Trichlorofluoromethane	5.00	28.1	UD	8.99	28.1	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	5.00	38.3	UD	12.3	38.3	ug/m3
76-14-2	Dichlorotetrafluoroethane	5.00	35.0	UD	6.15	35.0	ug/m3
75-65-0	tert-Butyl alcohol	5.00	15.2	UD	5.76	15.2	ug/m3
142-82-5	Heptane	4.60	18.9	JD	4.51	20.5	ug/m3
75-35-4	1,1-Dichloroethene	5.00	19.8	UD	5.55	19.8	ug/m3
67-64-1	Acetone	42.3	100	D	5.70	11.9	ug/m3
75-15-0	Carbon Disulfide	5.00	15.6	UD	4.98	15.6	ug/m3
1634-04-4	Methyl tert-Butyl Ether	5.00	18.0	UD	4.33	18.0	ug/m3
75-09-2	Methylene Chloride	5.00	17.4	UD	6.60	17.4	ug/m3
156-60-5	trans-1,2-Dichloroethene	5.00	19.8	UD	7.53	19.8	ug/m3
75-34-3	1,1-Dichloroethane	5.00	20.2	UD	5.26	20.2	ug/m3
110-82-7	Cyclohexane	5.00	17.2	UD	7.57	17.2	ug/m3
78-93-3	2-Butanone	5.00	14.8	UD	3.54	14.8	ug/m3
56-23-5	Carbon Tetrachloride	0.30	1.89	UD	0.69	1.89	ug/m3
156-59-2	cis-1,2-Dichloroethene	5.00	19.8	UD	3.53	19.8	ug/m3
67-66-3	Chloroform	5.00	24.4	UD	4.05	24.4	ug/m3
71-55-6	1,1,1-Trichloroethane	0.30	1.64	UD	0.55	1.64	ug/m3
540-84-1	2,2,4-Trimethylpentane	5.00	23.4	UD	4.67	23.4	ug/m3
71-43-2	Benzene	5.00	16.0	UD	2.78	16.0	ug/m3
107-06-2	1,2-Dichloroethane	5.00	20.2	UD	3.68	20.2	ug/m3
79-01-6	Trichloroethene	0.30	1.61	UD	0.91	1.61	ug/m3
78-87-5	1,2-Dichloropropane	5.00	23.1	UD	5.08	23.1	ug/m3
75-27-4	Bromodichloromethane	5.00	33.5	UD	5.16	33.5	ug/m3
108-10-1	4-Methyl-2-Pentanone	5.00	20.5	UD	3.81	20.5	ug/m3
108-88-3	Toluene	5.00	18.8	UD	4.15	18.8	ug/m3
10061-02-6	t-1,3-Dichloropropene	5.00	22.7	UD	2.72	22.7	ug/m3
10061-01-5	cis-1,3-Dichloropropene	5.00	22.7	UD	2.91	22.7	ug/m3
79-00-5	1,1,2-Trichloroethane	5.00	27.3	UD	3.87	27.3	ug/m3

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

Report of Analysis

Client:	Tetra Tech, EMI	Date Collected:	04/29/25
Project:	R36900	Date Received:	04/30/25
Client Sample ID:	EBR-P03-SC-SS01-20250428DL	SDG No.:	Q1927
Lab Sample ID:	Q1927-04DL	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
VL042473.D	10		05/05/25 11:22	VL050525

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	5.00	42.6	UD	5.62	42.6	ug/m3
106-93-4	1,2-Dibromoethane	1.00	7.69	UD	5.53	7.69	ug/m3
127-18-4	Tetrachloroethene	0.30	2.03	UD	1.02	2.03	ug/m3
108-90-7	Chlorobenzene	5.00	23.0	UD	3.50	23.0	ug/m3
100-41-4	Ethyl Benzene	5.00	21.7	UD	5.21	21.7	ug/m3
179601-23-1	m/p-Xylene	10.0	43.4	UD	9.12	43.4	ug/m3
95-47-6	o-Xylene	5.00	21.7	UD	5.21	21.7	ug/m3
100-42-5	Styrene	5.00	21.3	UD	4.68	21.3	ug/m3
75-25-2	Bromoform	5.00	51.7	UD	5.89	51.7	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	0.30	2.06	UD	0.76	2.06	ug/m3
95-49-8	2-Chlorotoluene	5.00	25.9	UD	5.70	25.9	ug/m3
108-67-8	1,3,5-Trimethylbenzene	5.00	24.6	UD	5.41	24.6	ug/m3
95-63-6	1,2,4-Trimethylbenzene	5.00	24.6	UD	3.83	24.6	ug/m3
541-73-1	1,3-Dichlorobenzene	5.00	30.1	UD	4.81	30.1	ug/m3
106-46-7	1,4-Dichlorobenzene	5.00	30.1	UD	3.19	30.1	ug/m3
95-50-1	1,2-Dichlorobenzene	5.00	30.1	UD	4.51	30.1	ug/m3
120-82-1	1,2,4-Trichlorobenzene	5.00	37.1	UD	6.31	37.1	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	5.00	53.3	UD	9.07	53.3	ug/m3
106-99-0	1,3-Butadiene	5.00	11.1	UD	2.88	11.1	ug/m3
91-20-3	Naphthalene	1.00	5.24	UD	3.93	5.24	ug/m3
622-96-8	4-Ethyltoluene	5.00	24.6	UD	5.90	24.6	ug/m3
110-54-3	Hexane	13.6	47.9	D	3.88	17.6	ug/m3
107-05-1	Allyl Chloride	5.00	15.7	UD	4.70	15.7	ug/m3
123-91-1	1,4-Dioxane	5.00	18.0	UD	7.57	18.0	ug/m3
80-62-6	Methyl Methacrylate	5.00	20.5	UD	3.52	20.5	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	9.80			65 - 135	98%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	80300		2.79			
540-36-3	1,4-Difluorobenzene	225000		3.965			
3114-55-4	Chlorobenzene-d5	186000		8.885			

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

Report of Analysis

Client:	Tetra Tech, EMI	Date Collected:	04/29/25
Project:	R36900	Date Received:	04/30/25
Client Sample ID:	EBR-P03-SC-SS01-20250428DL	SDG No.:	Q1927
Lab Sample ID:	Q1927-04DL	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
VL042473.D	10		05/05/25 11:22	VL050525

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\VL050525\
Data File : VL042473.D
Acq On : 05 May 2025 11:22
Operator : SY/MD
Sample : Q1927-04DL 10X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 06 01:40:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Fri May 02 03:16:31 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
EBR-P03-SC-SS01-20250428DL

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.790	49	80347	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	224542	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	185866	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	169008	9.808	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 98.100%			
Target Compounds						Qvalue
9) Propene	1.479	41	5215m	1.134	ppbv	
10) Heptane	4.994	43	5436m	0.456	ppbv	
13) Ethanol	1.722	45	8323	8.920	ppbv	# 37
15) Acetone	1.839	43	61972	4.225	ppbv	98
26) Hexane	2.832	57	13946	1.363	ppbv	# 34
59) m/p-Xylene	9.532	91	3492m	0.134	ppbv	

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

Quantitation Report (QT Reviewed)

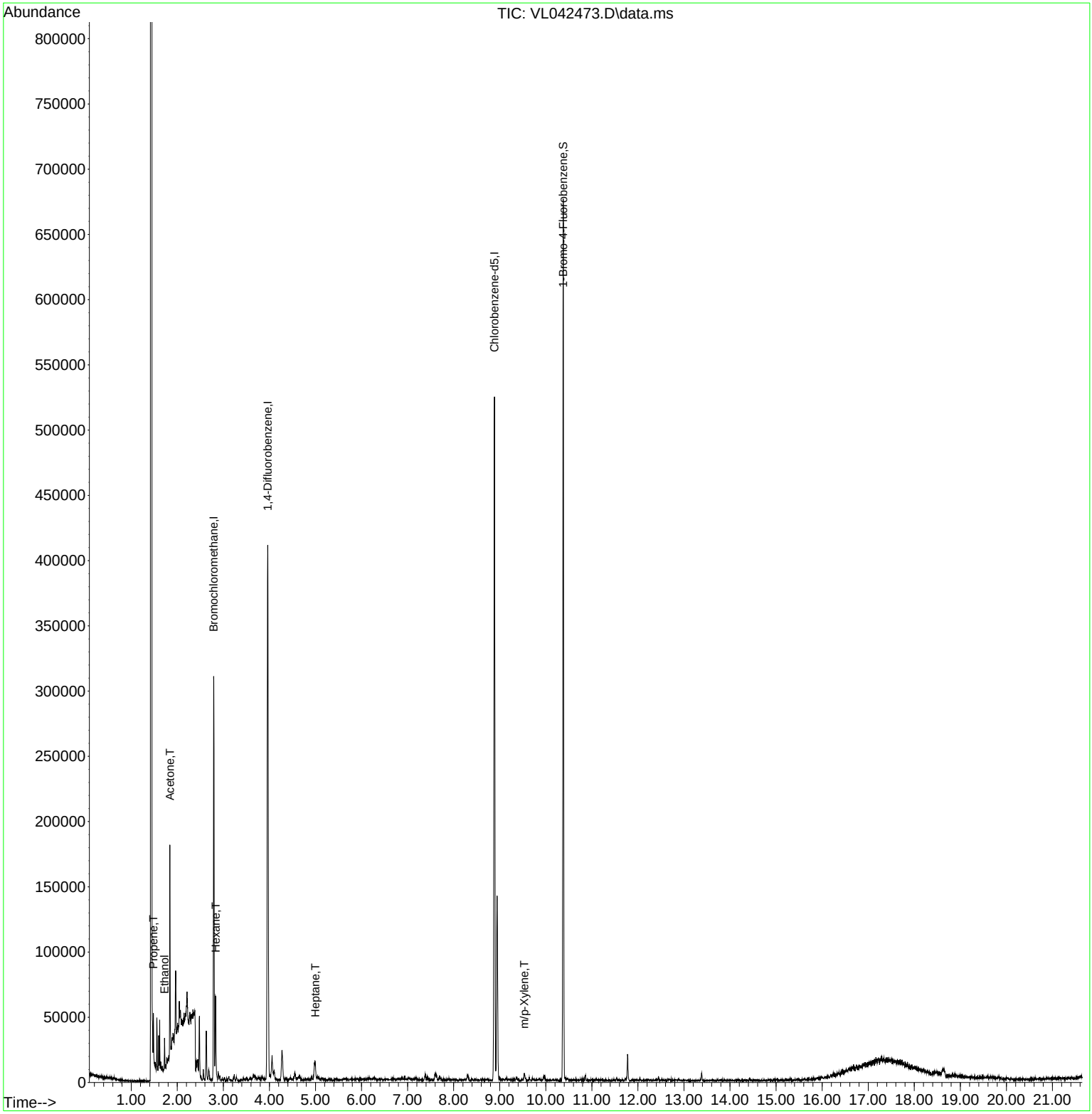
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050525\
Data File : VL042473.D
Acq On : 05 May 2025 11:22
Operator : SY/MD
Sample : Q1927-04DL 10X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

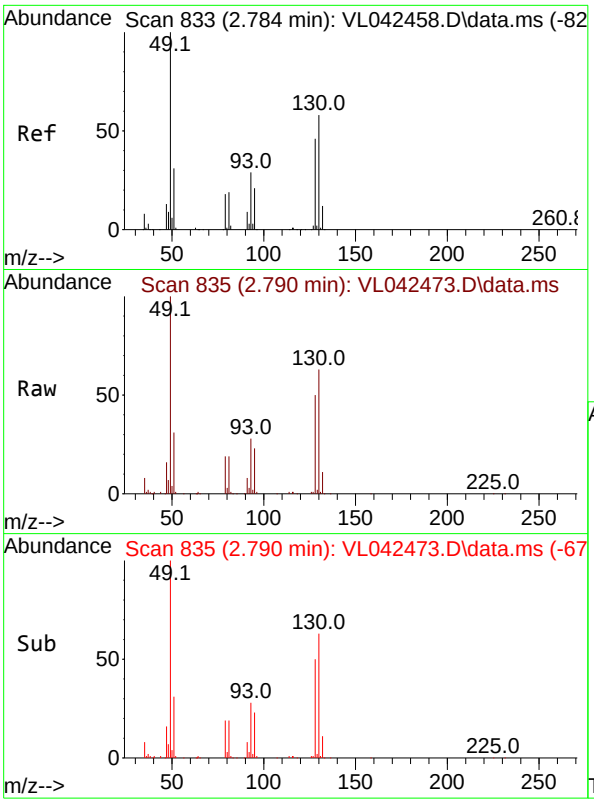
Quant Time: May 06 01:40:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri May 02 03:16:31 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
EBR-P03-SC-SS01-20250428DL

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

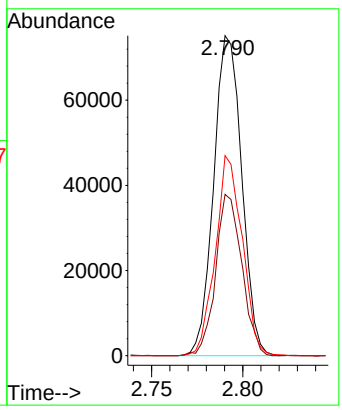




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 8
Delta R.T. 0.006 min
Lab File: VL042473.D
Acq: 05 May 2025 11:22

Tgt Ion: 49 Resp: 8034

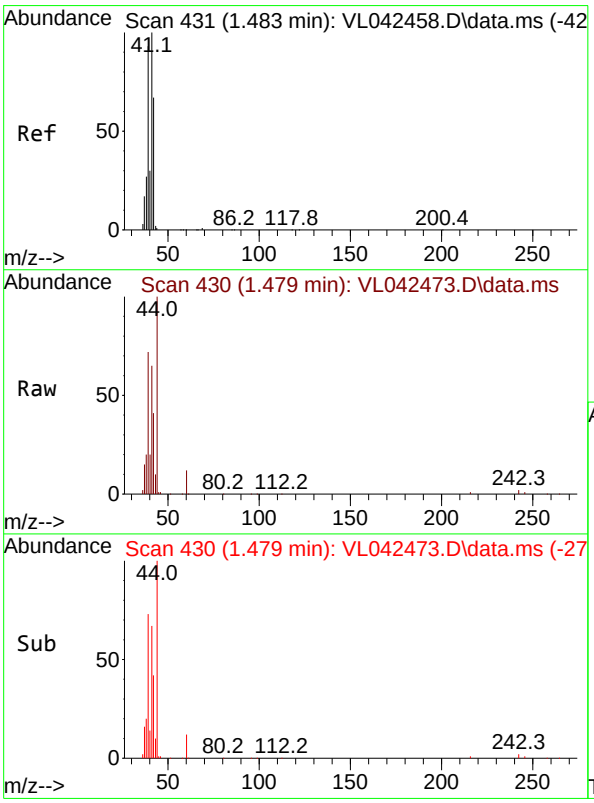
Ion	Ratio	Lower	Upper
49	100		
128	47.1	23.3	69.9
130	60.1	29.5	88.6



Instrument :
MSVOA_L
ClientSampleId :
EBR-P03-SC-SS01-20250428DL

Manual Integrations
APPROVED

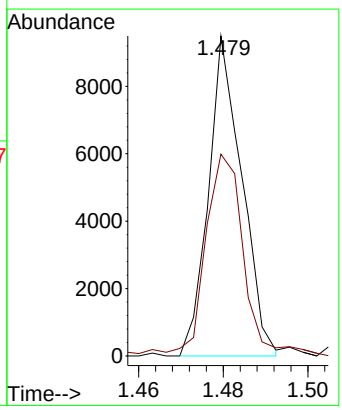
Reviewed By :Semsettin Yesilyurt 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

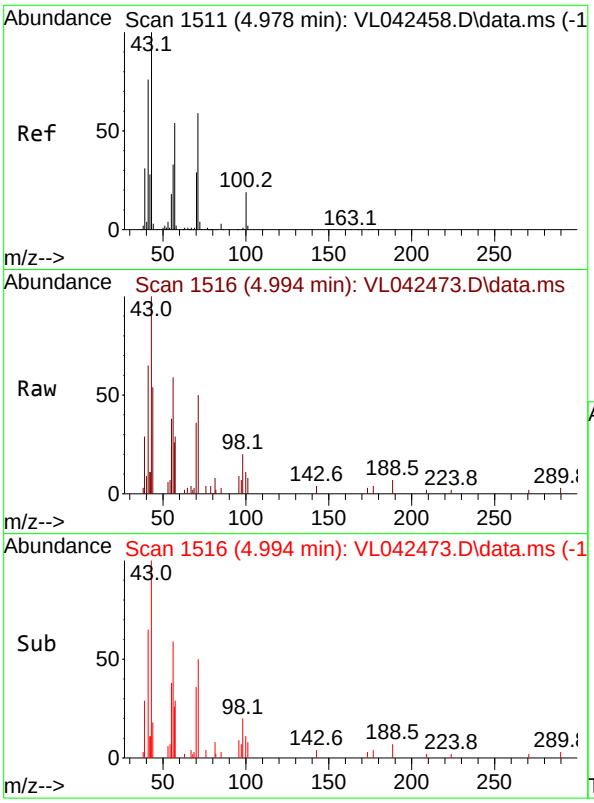


#9
Propene
Concen: 1.134 ppbv m
RT: 1.479 min Scan# 430
Delta R.T. -0.003 min
Lab File: VL042473.D
Acq: 05 May 2025 11:22

Tgt Ion: 41 Resp: 5215

Ion	Ratio	Lower	Upper
41	100		
42	46.5	54.3	81.5#





#10
Heptane
Concen: 0.456 ppbv m
RT: 4.994 min Scan# 1
Delta R.T. 0.016 min
Lab File: VL042473.D
Acq: 05 May 2025 11:22

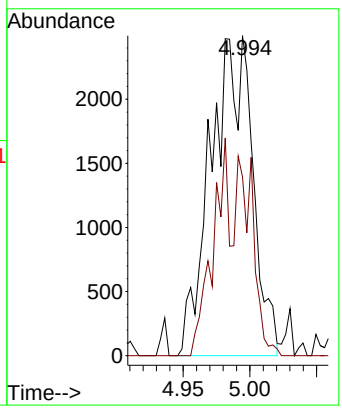
Tgt Ion: 43 Resp: 543

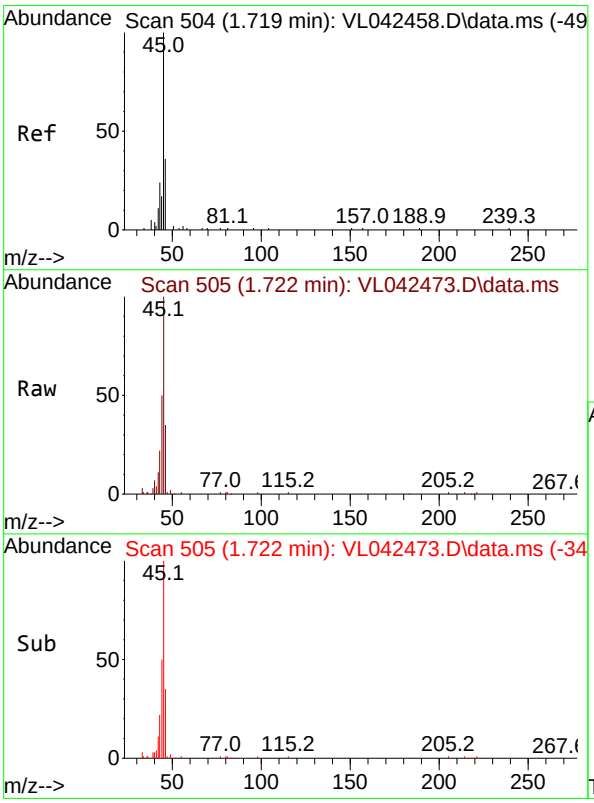
Ion	Ratio	Lower	Upper
43	100		
57	0.0	41.8	62.8#

Instrument :
MSVOA_L
ClientSampleId :
EBR-P03-SC-SS01-20250428DL

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

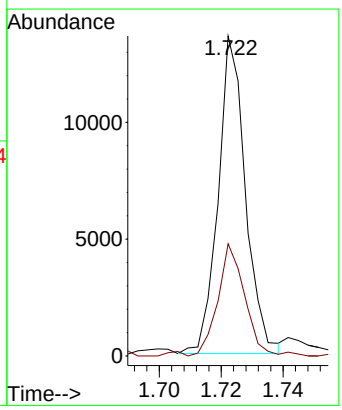


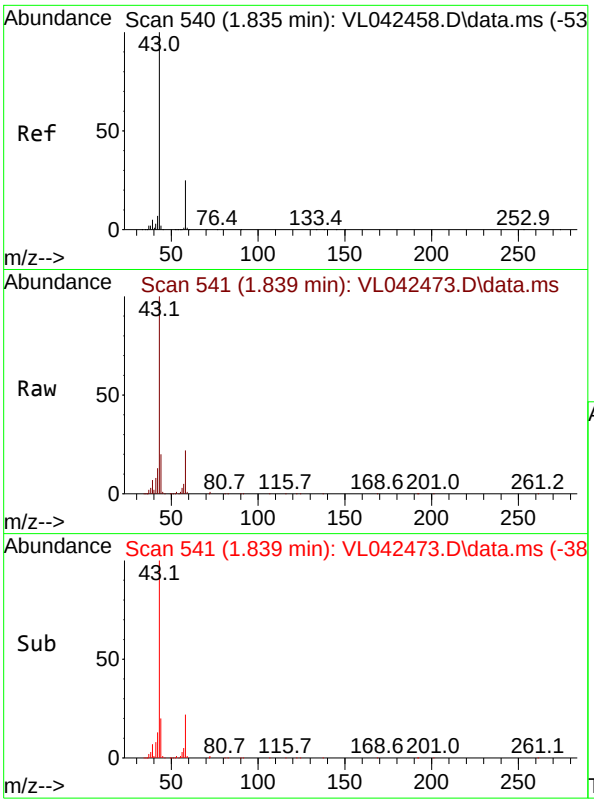


#13
Ethanol
Concen: 8.920 ppbv
RT: 1.722 min Scan# 505
Delta R.T. 0.003 min
Lab File: VL042473.D
Acq: 05 May 2025 11:22

Tgt Ion: 45 Resp: 8323

Ion	Ratio	Lower	Upper
45	100		
46	0.0	15.3	61.1#





#15
Acetone
Concen: 4.225 ppbv
RT: 1.839 min Scan# 54
Delta R.T. 0.003 min
Lab File: VL042473.D
Acq: 05 May 2025 11:22

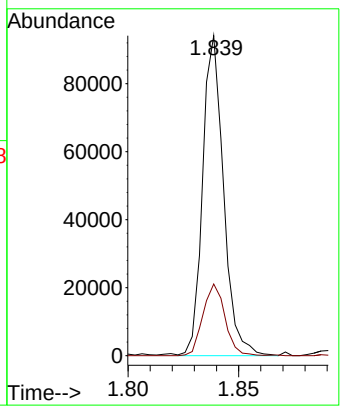
Tgt Ion: 43 Resp: 6197

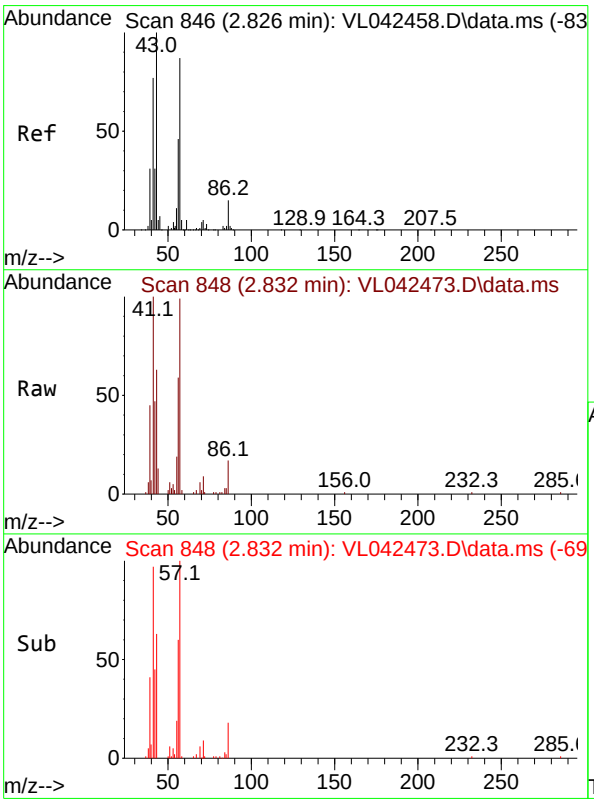
Ion	Ratio	Lower	Upper
43	100		
58	23.7	19.8	29.8

Instrument :
MSVOA_L
ClientSampleId :
EBR-P03-SC-SS01-20250428DL

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

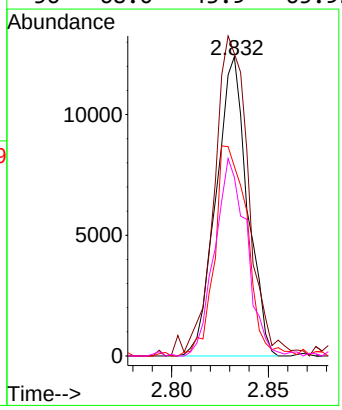


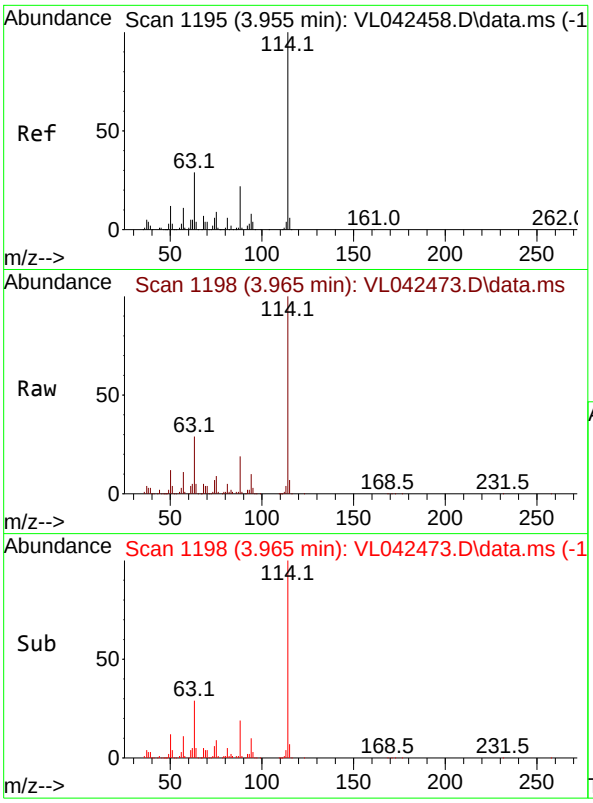


#26
Hexane
Concen: 1.363 ppbv
RT: 2.832 min Scan# 848
Delta R.T. 0.007 min
Lab File: VL042473.D
Acq: 05 May 2025 11:22

Tgt Ion: 57 Resp: 13946

Ion	Ratio	Lower	Upper
57	100		
41	118.3	77.8	116.8#
43	73.6	187.0	280.6#
56	68.0	43.9	65.9#





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.965 min Scan# 1
Delta R.T. 0.010 min
Lab File: VL042473.D
Acq: 05 May 2025 11:22

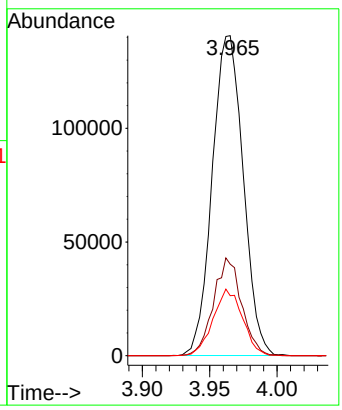
Tgt Ion:114 Resp: 22454

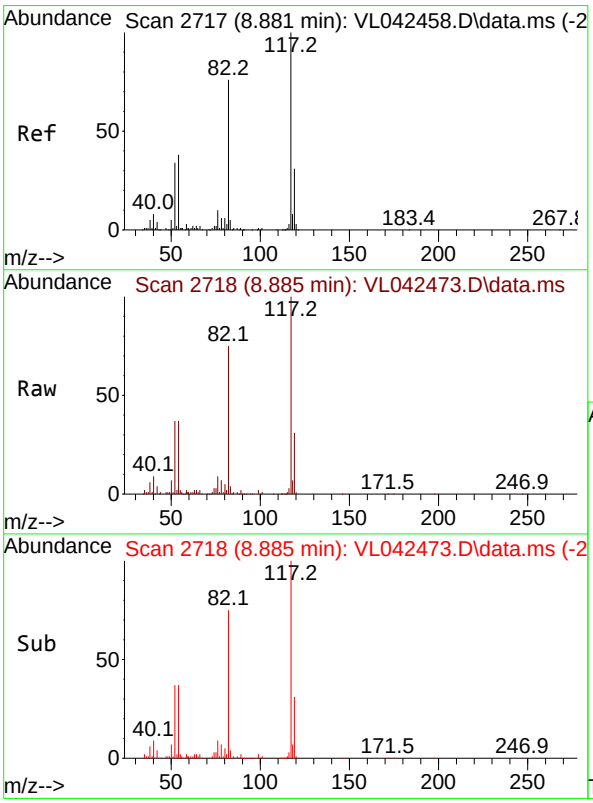
Ion	Ratio	Lower	Upper
114	100		
63	27.8	23.1	34.7
88	19.8	16.1	24.1

Instrument :
MSVOA_L
ClientSampleId :
EBR-P03-SC-SS01-20250428DL

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

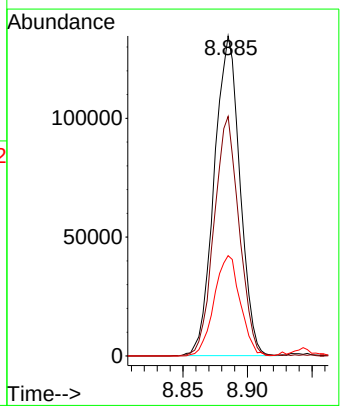


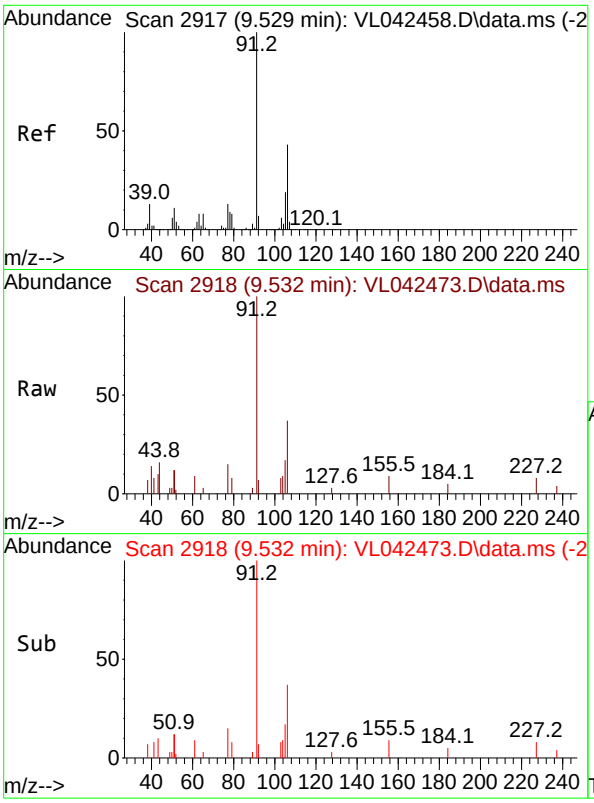


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.885 min Scan# 2718
Delta R.T. 0.003 min
Lab File: VL042473.D
Acq: 05 May 2025 11:22

Tgt Ion:117 Resp: 185866

Ion	Ratio	Lower	Upper
117	100		
82	73.4	63.5	95.3
119	31.9	25.8	38.8





#59
m/p-Xylene
Concen: 0.134 ppbv m
RT: 9.532 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042473.D
Acq: 05 May 2025 11:22

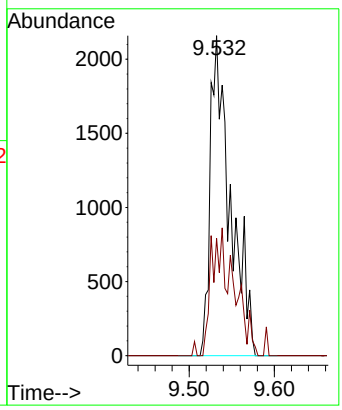
Tgt Ion: 91 Resp: 349

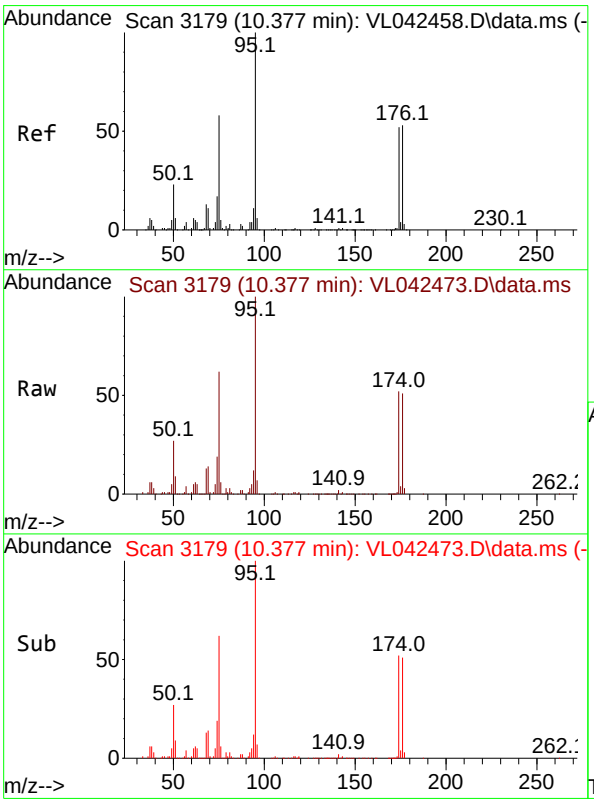
Ion	Ratio	Lower	Upper
91	100		
106	0.0	34.2	51.2#

Instrument :
MSVOA_L
ClientSampleId :
EBR-P03-SC-SS01-20250428DL

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

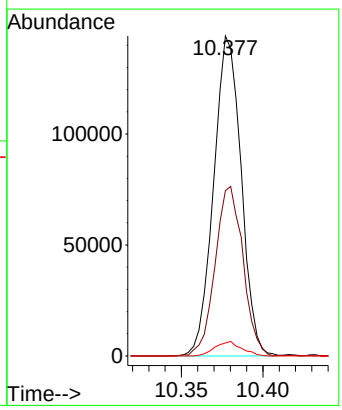




#68
1-Bromo-4-Fluorobenzene
Concen: 9.808 ppbv
RT: 10.377 min Scan# 3179
Delta R.T. 0.000 min
Lab File: VL042473.D
Acq: 05 May 2025 11:22

Tgt Ion: 95 Resp: 169008

Ion	Ratio	Lower	Upper
95	100		
174	53.8	42.7	64.1
175	4.4	3.6	5.4



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

Report of Analysis

Client:	Tetra Tech, EMI	Date Collected:	04/29/25
Project:	R36900	Date Received:	04/30/25
Client Sample ID:	EBR-P07-SC-IA01-20250428	SDG No.:	Q1927
Lab Sample ID:	Q1927-05	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
VL042481.D	1		05/05/25 18:06	VL050525

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.85	4.20		1.04	2.47	ug/m3
74-87-3	Chloromethane	0.63	1.30		0.21	1.03	ug/m3
75-01-4	Vinyl Chloride	0.030	0.080	U	0.030	0.080	ug/m3
74-83-9	Bromomethane	0.50	1.94	U	0.54	1.94	ug/m3
75-00-3	Chloroethane	0.50	1.32	U	0.45	1.32	ug/m3
109-99-9	Tetrahydrofuran	0.23	0.68	J	0.38	1.47	ug/m3
75-69-4	Trichlorofluoromethane	1.00	5.62		0.90	2.81	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	0.50	3.83	U	1.23	3.83	ug/m3
76-14-2	Dichlorotetrafluoroethane	0.50	3.49	U	0.63	3.49	ug/m3
75-65-0	tert-Butyl alcohol	0.50	1.52	U	0.58	1.52	ug/m3
142-82-5	Heptane	0.50	2.05	U	0.45	2.05	ug/m3
75-35-4	1,1-Dichloroethene	0.50	1.98	U	0.56	1.98	ug/m3
67-64-1	Acetone	4.30	10.2		0.57	1.19	ug/m3
75-15-0	Carbon Disulfide	0.50	1.56	U	0.50	1.56	ug/m3
1634-04-4	Methyl tert-Butyl Ether	0.50	1.80	U	0.43	1.80	ug/m3
75-09-2	Methylene Chloride	1.60	5.56		0.66	1.74	ug/m3
156-60-5	trans-1,2-Dichloroethene	0.50	1.98	U	0.75	1.98	ug/m3
75-34-3	1,1-Dichloroethane	0.50	2.02	U	0.53	2.02	ug/m3
110-82-7	Cyclohexane	0.50	1.72	U	0.76	1.72	ug/m3
78-93-3	2-Butanone	0.35	1.03	J	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	0.50	1.98	U	0.36	1.98	ug/m3
67-66-3	Chloroform	0.50	2.44	U	0.39	2.44	ug/m3
71-55-6	1,1,1-Trichloroethane	0.030	0.16	U	0.050	0.16	ug/m3
540-84-1	2,2,4-Trimethylpentane	0.50	2.34	U	0.47	2.34	ug/m3
71-43-2	Benzene	0.10	0.32	J	0.29	1.60	ug/m3
107-06-2	1,2-Dichloroethane	0.50	2.02	U	0.36	2.02	ug/m3
79-01-6	Trichloroethene	0.030	0.16	U	0.11	0.16	ug/m3
78-87-5	1,2-Dichloropropane	0.50	2.31	U	0.51	2.31	ug/m3
75-27-4	Bromodichloromethane	0.50	3.35	U	0.54	3.35	ug/m3
108-10-1	4-Methyl-2-Pentanone	0.50	2.05	U	0.37	2.05	ug/m3
108-88-3	Toluene	0.16	0.60	J	0.41	1.88	ug/m3
10061-02-6	t-1,3-Dichloropropene	0.50	2.27	U	0.27	2.27	ug/m3
10061-01-5	cis-1,3-Dichloropropene	0.50	2.27	U	0.27	2.27	ug/m3
79-00-5	1,1,2-Trichloroethane	0.50	2.73	U	0.38	2.73	ug/m3

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

Report of Analysis

Client:	Tetra Tech, EMI	Date Collected:	04/29/25
Project:	R36900	Date Received:	04/30/25
Client Sample ID:	EBR-P07-SC-IA01-20250428	SDG No.:	Q1927
Lab Sample ID:	Q1927-05	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
VL042481.D	1		05/05/25 18:06	VL050525

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	0.50	4.26	U	0.60	4.26	ug/m3
106-93-4	1,2-Dibromoethane	0.10	0.77	U	0.54	0.77	ug/m3
127-18-4	Tetrachloroethene	0.030	0.20	U	0.14	0.20	ug/m3
108-90-7	Chlorobenzene	0.50	2.30	U	0.37	2.30	ug/m3
100-41-4	Ethyl Benzene	0.50	2.17	U	0.52	2.17	ug/m3
179601-23-1	m/p-Xylene	1.00	4.34	U	0.91	4.34	ug/m3
95-47-6	o-Xylene	0.50	2.17	U	0.52	2.17	ug/m3
100-42-5	Styrene	0.50	2.13	U	0.47	2.13	ug/m3
75-25-2	Bromoform	0.50	5.17	U	0.62	5.17	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	0.030	0.21	U	0.070	0.21	ug/m3
95-49-8	2-Chlorotoluene	0.50	2.59	U	0.57	2.59	ug/m3
108-67-8	1,3,5-Trimethylbenzene	0.50	2.46	U	0.54	2.46	ug/m3
95-63-6	1,2,4-Trimethylbenzene	0.50	2.46	U	0.39	2.46	ug/m3
541-73-1	1,3-Dichlorobenzene	0.50	3.01	U	0.48	3.01	ug/m3
106-46-7	1,4-Dichlorobenzene	0.50	3.01	U	0.30	3.01	ug/m3
95-50-1	1,2-Dichlorobenzene	0.50	3.01	U	0.48	3.01	ug/m3
120-82-1	1,2,4-Trichlorobenzene	0.50	3.71	U	0.67	3.71	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	0.50	5.33	U	0.96	5.33	ug/m3
106-99-0	1,3-Butadiene	0.50	1.11	U	0.29	1.11	ug/m3
91-20-3	Naphthalene	0.10	0.52	U	0.42	0.52	ug/m3
622-96-8	4-Ethyltoluene	0.50	2.46	U	0.59	2.46	ug/m3
110-54-3	Hexane	0.25	0.88	J	0.39	1.76	ug/m3
107-05-1	Allyl Chloride	0.50	1.57	U	0.47	1.57	ug/m3
123-91-1	1,4-Dioxane	0.50	1.80	U	0.76	1.80	ug/m3
80-62-6	Methyl Methacrylate	0.50	2.05	U	0.37	2.05	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	9.90			65 - 135	99%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	68200		2.79			
540-36-3	1,4-Difluorobenzene	187000		3.962			
3114-55-4	Chlorobenzene-d5	160000		8.888			

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

Report of Analysis

Client:	Tetra Tech, EMI	Date Collected:	04/29/25
Project:	R36900	Date Received:	04/30/25
Client Sample ID:	EBR-P07-SC-IA01-20250428	SDG No.:	Q1927
Lab Sample ID:	Q1927-05	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
VL042481.D	1		05/05/25 18:06	VL050525

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\VL050525\
Data File : VL042481.D
Acq On : 05 May 2025 18:06
Operator : SY/MD
Sample : Q1927-05
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
EBR-P07-SC-IA01-20250428

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

Quant Time: May 06 01:44:38 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri May 02 03:16:31 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.790	49	68224	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	186800	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.888	117	160233	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.380	95	147117	9.903	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 99.000%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	9574	0.848	ppbv	93
3) Chlorodifluoromethane	1.476	51	2620m	0.219	ppbv	
4) Chloromethane	1.531	50	2964	0.628	ppbv	96
9) Propene	1.489	41	2999m	0.768	ppbv	
11) Trichlorofluoromethane	1.881	101	10543	1.012	ppbv	92
13) Ethanol	1.722	45	95194	120.149	ppbv	98
15) Acetone	1.839	43	53121	4.265	ppbv	93
19) Isopropyl Alcohol	1.887	45	69736	10.117	ppbv	100
20) Methylene Chloride	2.065	84	6011	1.605	ppbv	96
26) Hexane	2.829	57	2162m	0.249	ppbv	
34) 2-Butanone	2.567	43	4742	0.351	ppbv	92
35) Carbon Tetrachloride	3.768	117	1264m	0.074	ppbv	
36) Benzene	3.661	78	1777m	0.101	ppbv	
41) Tetrahydrofuran	3.068	42	1504m	0.234	ppbv	
53) Toluene	6.946	91	3015m	0.162	ppbv	
59) m/p-Xylene	9.545	91	2458m	0.109	ppbv	

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

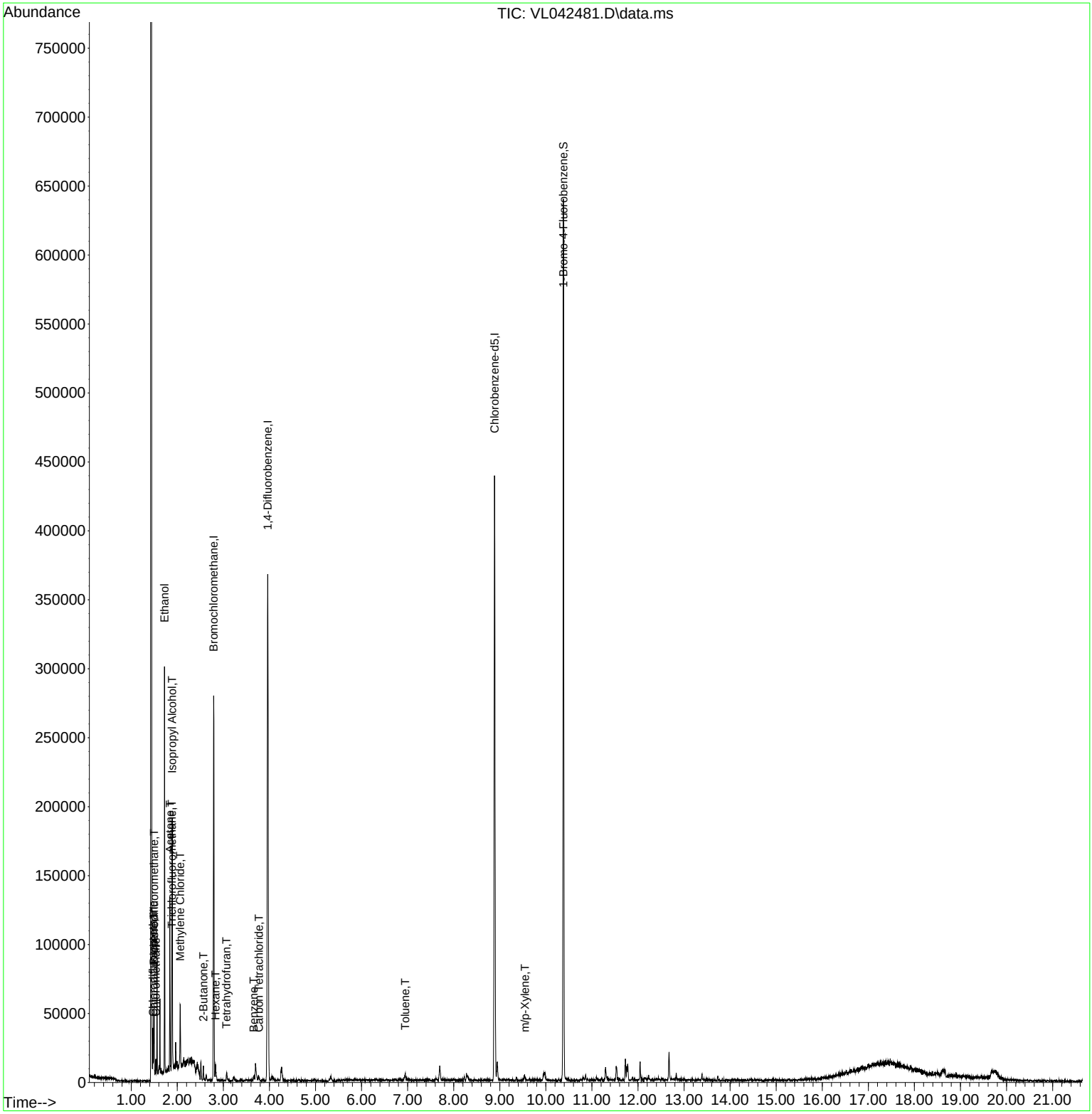
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050525\
Data File : VL042481.D
Acq On : 05 May 2025 18:06
Operator : SY/MD
Sample : Q1927-05
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

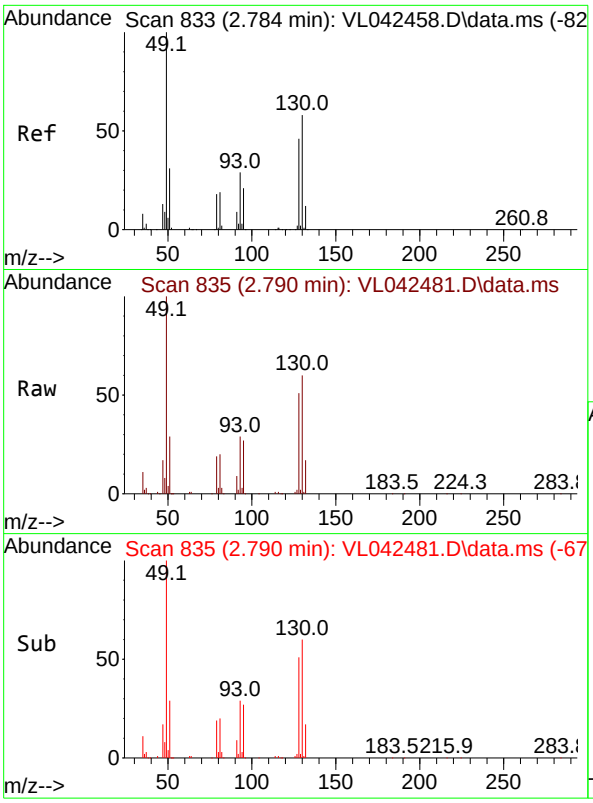
Quant Time: May 06 01:44:38 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri May 02 03:16:31 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
EBR-P07-SC-IA01-20250428

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

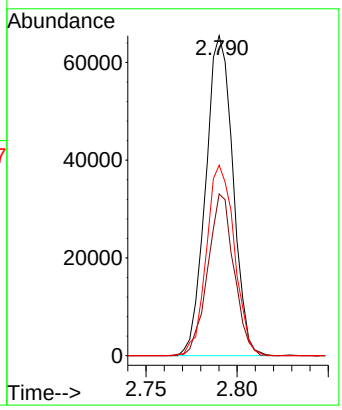




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 8
Delta R.T. 0.006 min
Lab File: VL042481.D
Acq: 05 May 2025 18:06

Tgt Ion: 49 Resp: 6822

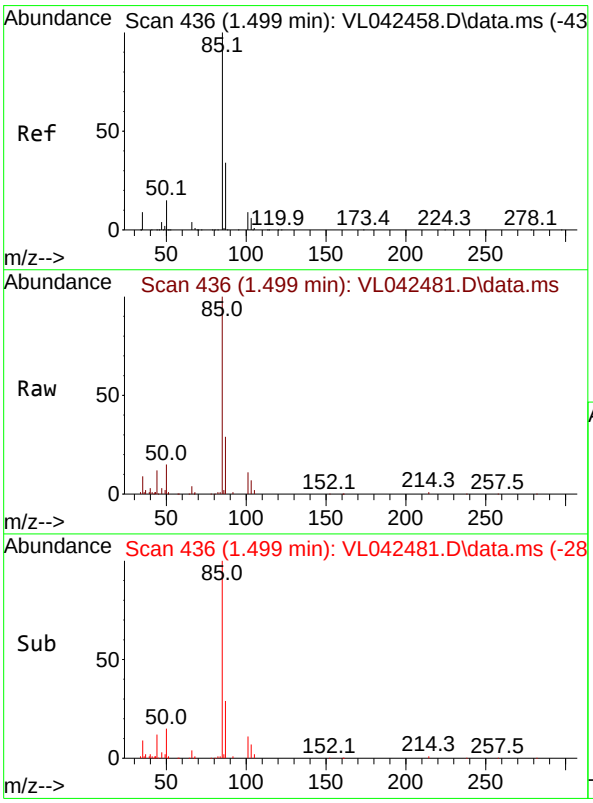
Ion	Ratio	Lower	Upper
49	100		
128	48.6	23.3	69.9
130	61.0	29.5	88.6



Instrument :
MSVOA_L
ClientSampleId :
EBR-P07-SC-IA01-20250428

Manual Integrations
APPROVED

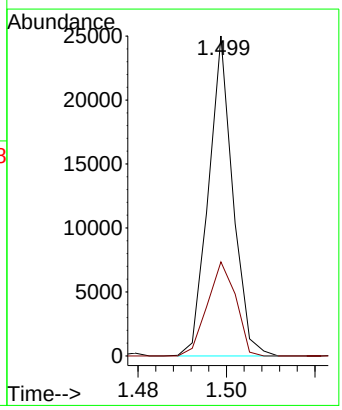
Reviewed By :Semsettin Yesilyurt 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

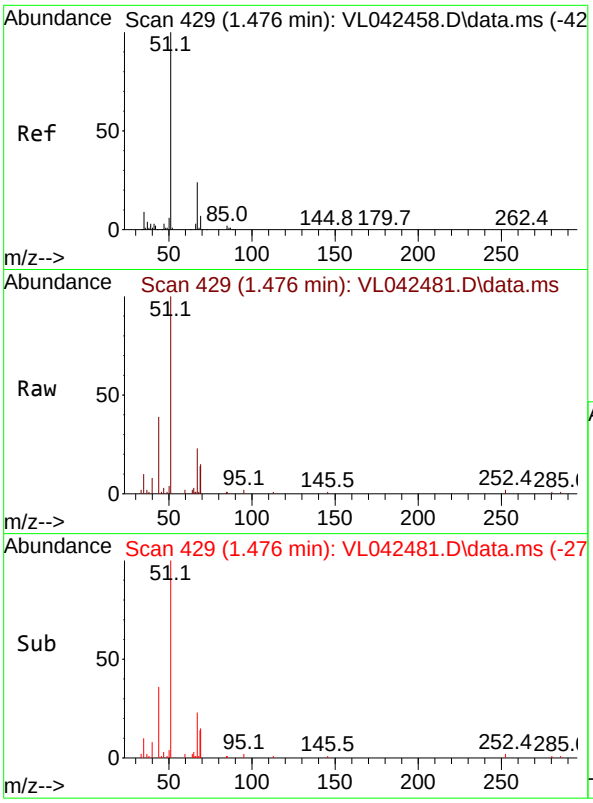


#2
Dichlorodifluoromethane
Concen: 0.848 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.000 min
Lab File: VL042481.D
Acq: 05 May 2025 18:06

Tgt Ion: 85 Resp: 9574

Ion	Ratio	Lower	Upper
85	100		
87	29.4	26.9	40.3

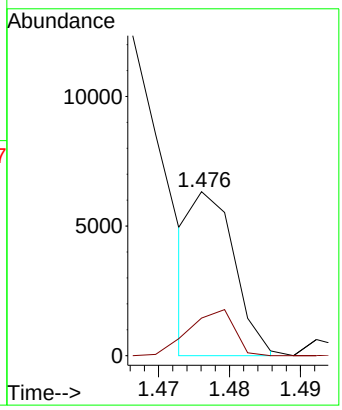




#3
Chlorodifluoromethane
Concen: 0.219 ppbv m
RT: 1.476 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042481.D
Acq: 05 May 2025 18:06

Tgt Ion: 51 Resp: 262

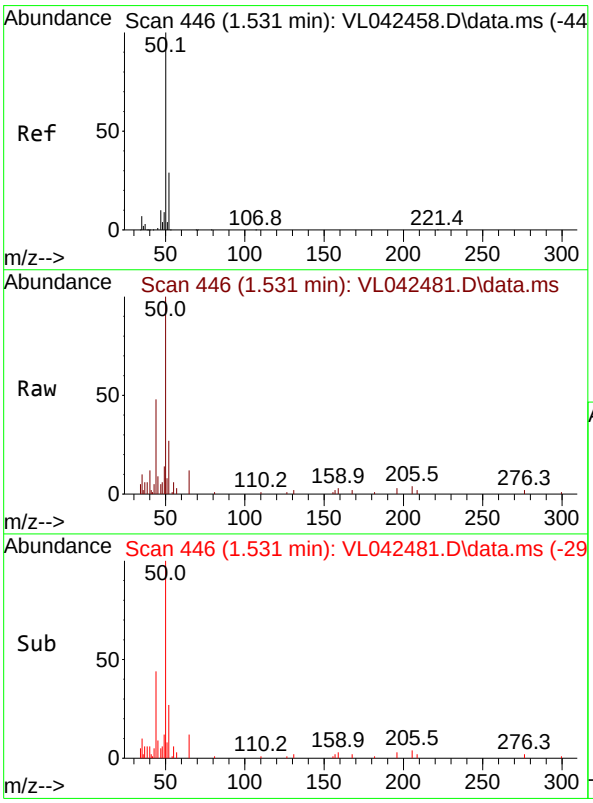
Ion	Ratio	Lower	Upper
51	100		
67	31.1	18.4	27.6



Instrument :
MSVOA_L
ClientSampleId :
EBR-P07-SC-IA01-20250428

Manual Integrations
APPROVED

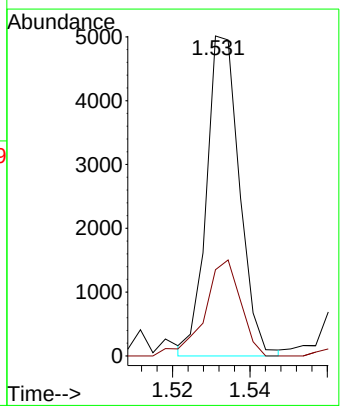
Reviewed By :Semsettin Yesilyurt 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

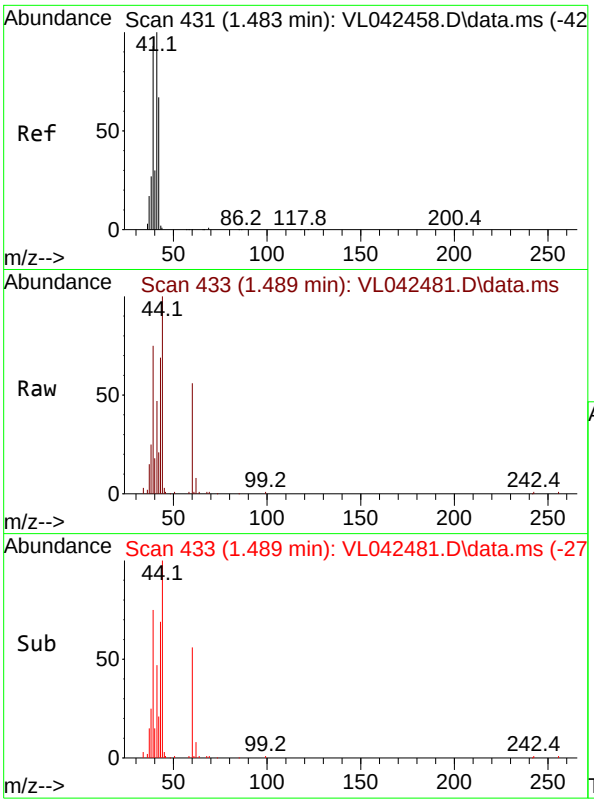


#4
Chloromethane
Concen: 0.628 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL042481.D
Acq: 05 May 2025 18:06

Tgt Ion: 50 Resp: 2964

Ion	Ratio	Lower	Upper
50	100		
52	27.5	23.5	35.3

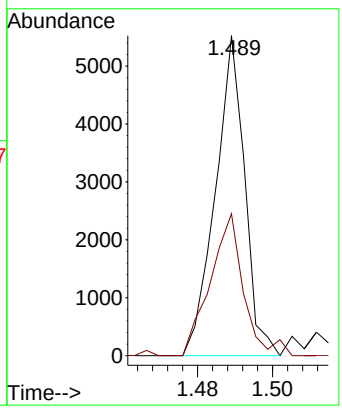




#9
Propene
Concen: 0.768 ppbv m
RT: 1.489 min Scan# 4
Delta R.T. 0.006 min
Lab File: VL042481.D
Acq: 05 May 2025 18:06

Tgt Ion: 41 Resp: 299

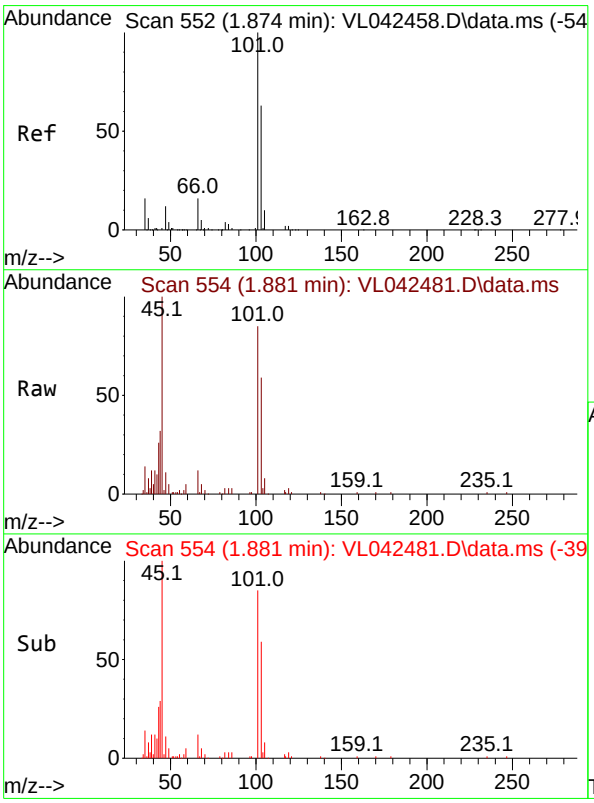
Ion	Ratio	Lower	Upper
41	100		
42	158.6	54.3	81.5



Instrument :
MSVOA_L
ClientSampleId :
EBR-P07-SC-IA01-20250428

Manual Integrations
APPROVED

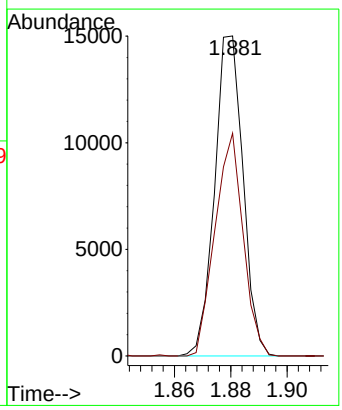
Reviewed By :Semsettin Yesilyurt 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

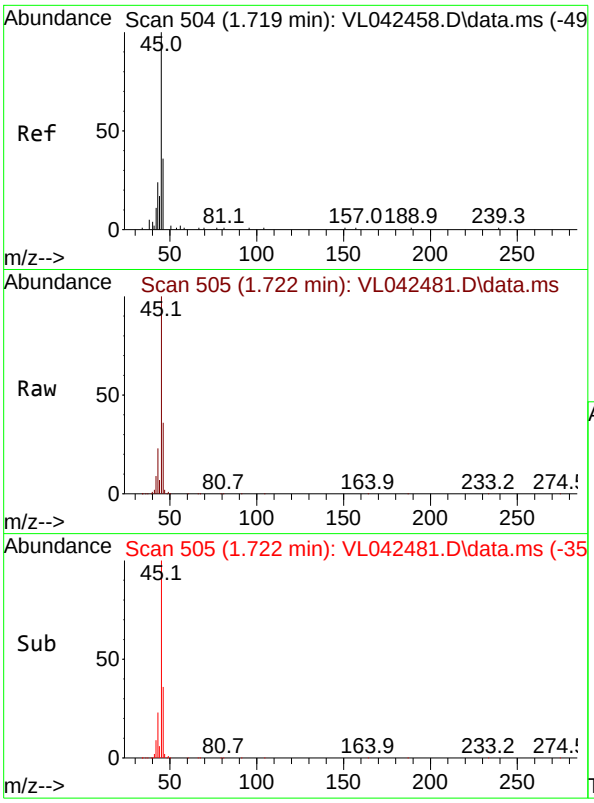


#11
Trichlorofluoromethane
Concen: 1.012 ppbv
RT: 1.881 min Scan# 554
Delta R.T. 0.006 min
Lab File: VL042481.D
Acq: 05 May 2025 18:06

Tgt Ion:101 Resp: 10543

Ion	Ratio	Lower	Upper
101	100		
103	69.6	50.6	76.0

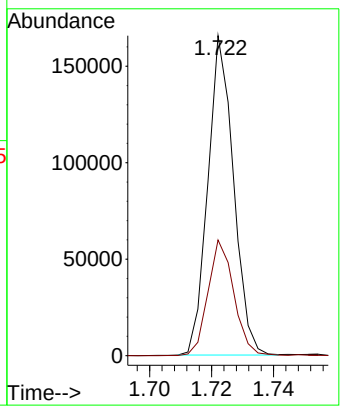




#13
Ethanol
Concen: 120.149 ppbv
RT: 1.722 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042481.D
Acq: 05 May 2025 18:06

Tgt Ion: 45 Resp: 9519

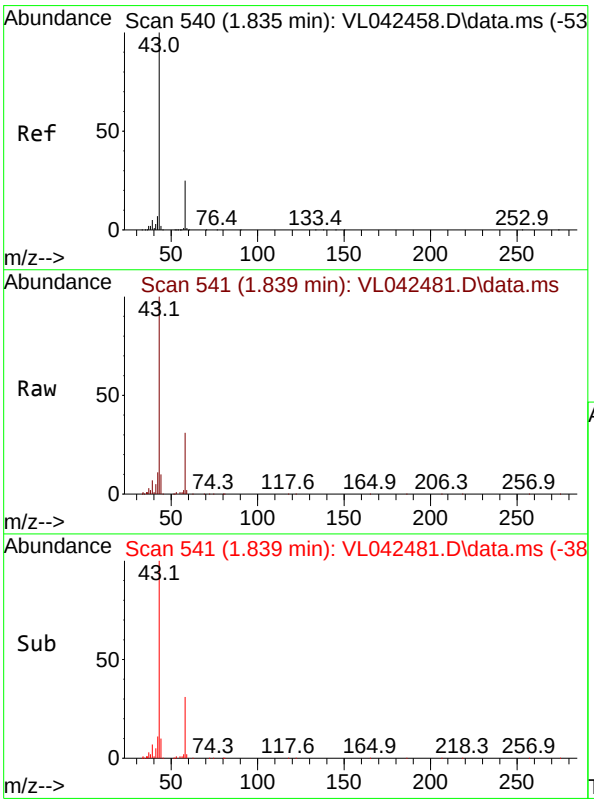
Ion	Ratio	Lower	Upper
45	100		
46	36.7	15.3	61.1



Instrument :
MSVOA_L
ClientSampleId :
EBR-P07-SC-IA01-20250428

Manual Integrations
APPROVED

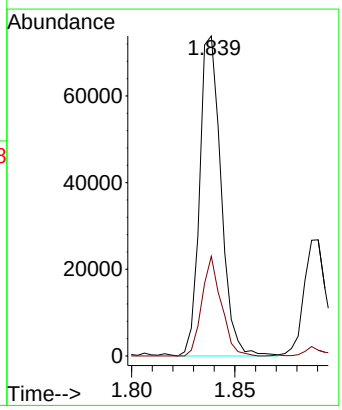
Reviewed By :Semsettin Yesilyurt 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

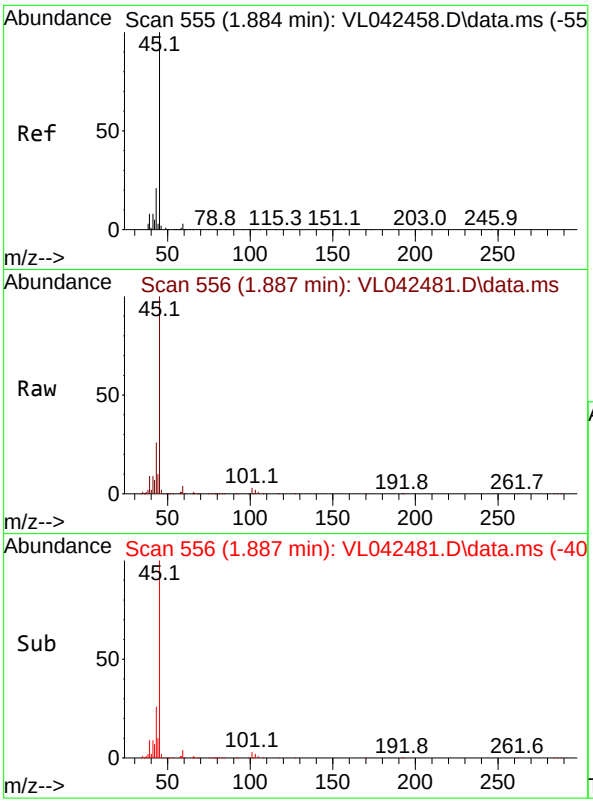


#15
Acetone
Concen: 4.265 ppbv
RT: 1.839 min Scan# 541
Delta R.T. 0.003 min
Lab File: VL042481.D
Acq: 05 May 2025 18:06

Tgt Ion: 43 Resp: 53121

Ion	Ratio	Lower	Upper
43	100		
58	28.1	19.8	29.8

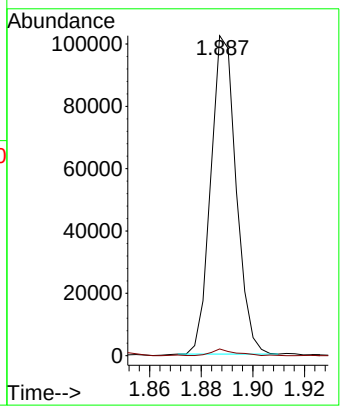




#19
Isopropyl Alcohol
Concen: 10.117 ppbv
RT: 1.887 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042481.D
Acq: 05 May 2025 18:06

Tgt Ion: 45 Resp: 6973

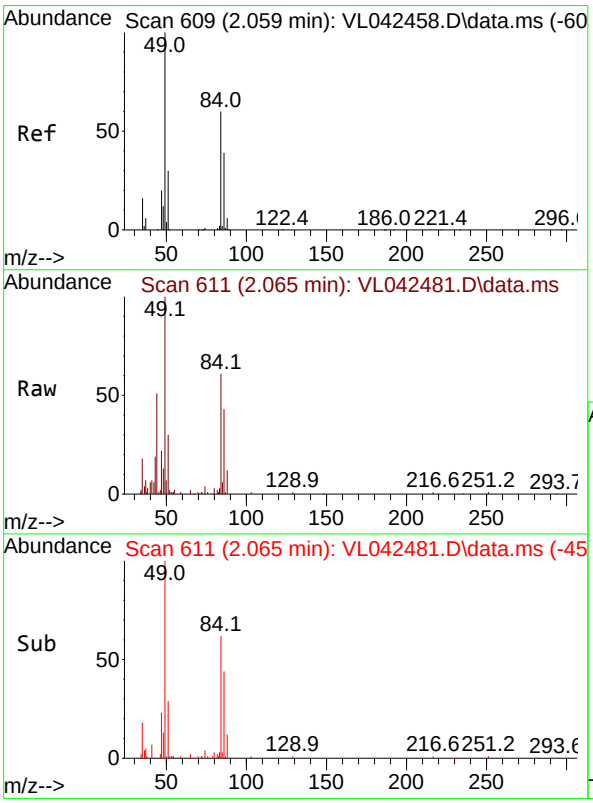
Ion	Ratio	Lower	Upper
45	100		
58	2.2	1.6	2.4



Instrument :
MSVOA_L
ClientSampleId :
EBR-P07-SC-IA01-20250428

Manual Integrations
APPROVED

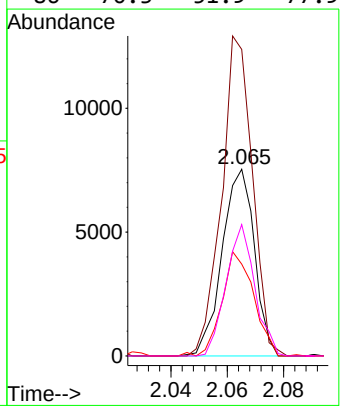
Reviewed By :Semsettin Yesilyurt 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

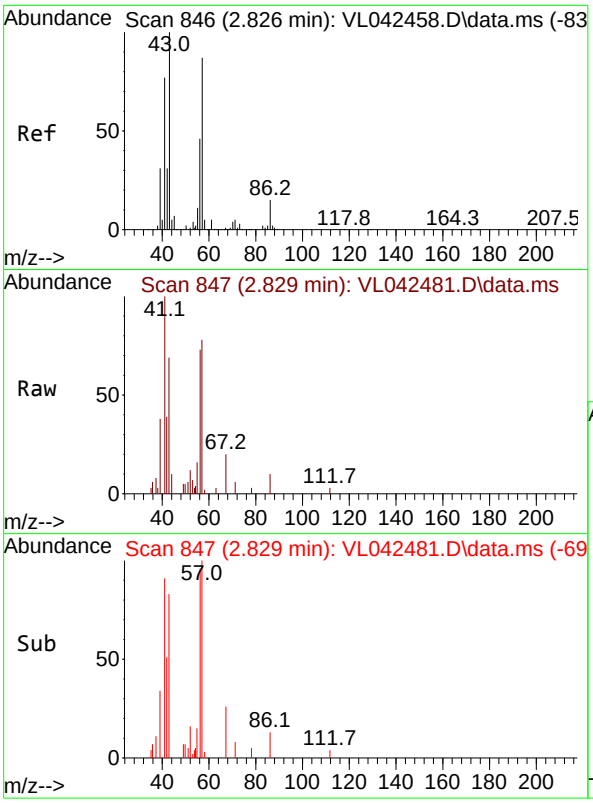


#20
Methylene Chloride
Concen: 1.605 ppbv
RT: 2.065 min Scan# 611
Delta R.T. 0.006 min
Lab File: VL042481.D
Acq: 05 May 2025 18:06

Tgt Ion: 84 Resp: 6011

Ion	Ratio	Lower	Upper
84	100		
49	164.1	133.9	200.9
51	49.1	41.0	61.6
86	70.3	51.9	77.9

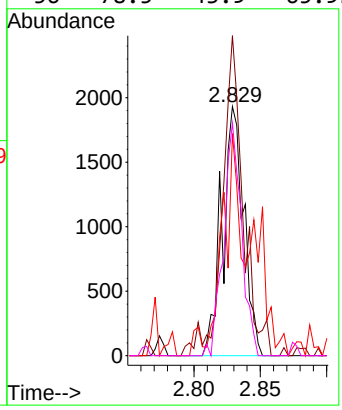




#26
Hexane
Concen: 0.249 ppbv m
RT: 2.829 min Scan# 84
Delta R.T. 0.003 min
Lab File: VL042481.D
Acq: 05 May 2025 18:06

Tgt Ion: 57 Resp: 216

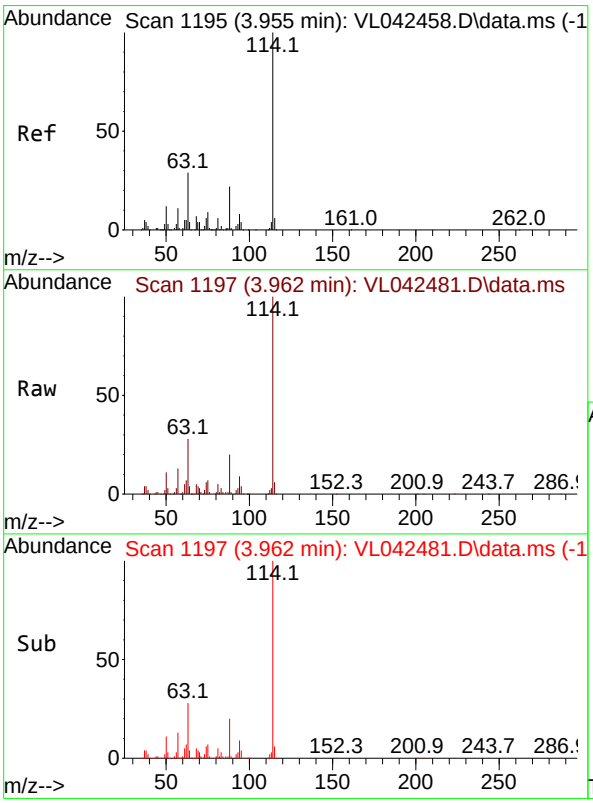
Ion	Ratio	Lower	Upper
57	100		
41	124.0	77.8	116.8#
43	120.9	187.0	280.6#
56	78.5	43.9	65.9#



Instrument :
MSVOA_L
ClientSampleId :
EBR-P07-SC-IA01-20250428

Manual Integrations
APPROVED

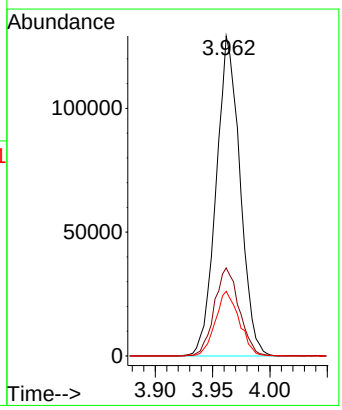
Reviewed By :Semsettin Yesilyurt 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

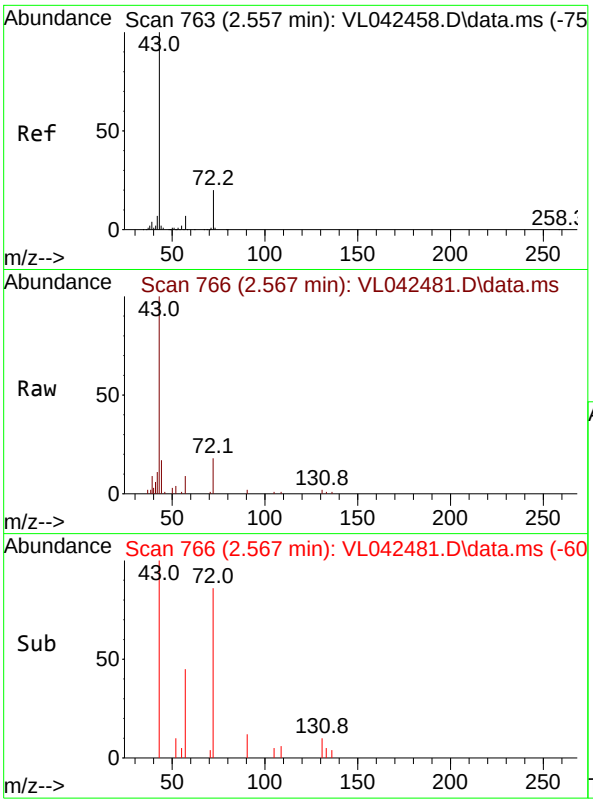


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.962 min Scan# 1197
Delta R.T. 0.006 min
Lab File: VL042481.D
Acq: 05 May 2025 18:06

Tgt Ion:114 Resp: 186800

Ion	Ratio	Lower	Upper
114	100		
63	28.9	23.1	34.7
88	20.3	16.1	24.1





#34
2-Butanone
Concen: 0.351 ppbv
RT: 2.567 min Scan# 7
Delta R.T. 0.010 min
Lab File: VL042481.D
Acq: 05 May 2025 18:06

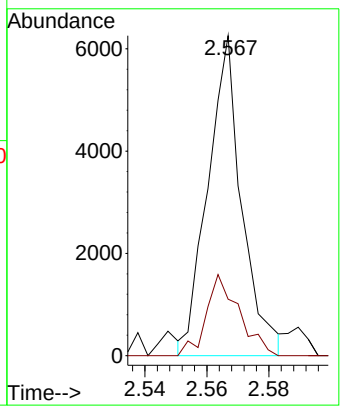
Tgt Ion: 43 Resp: 474

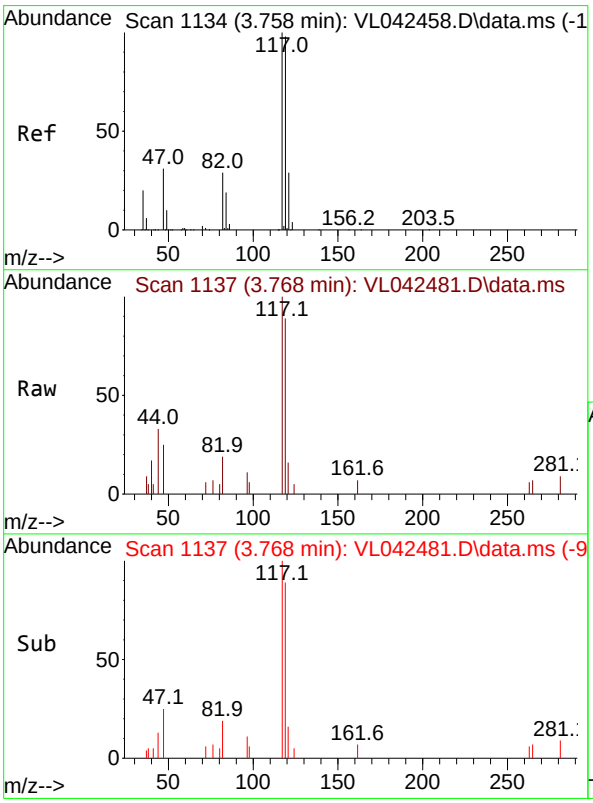
Ion	Ratio	Lower	Upper
43	100		
72	24.7	16.7	25.1

Instrument :
MSVOA_L
ClientSampleId :
EBR-P07-SC-IA01-20250428

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

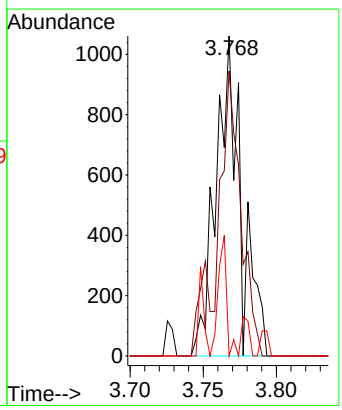


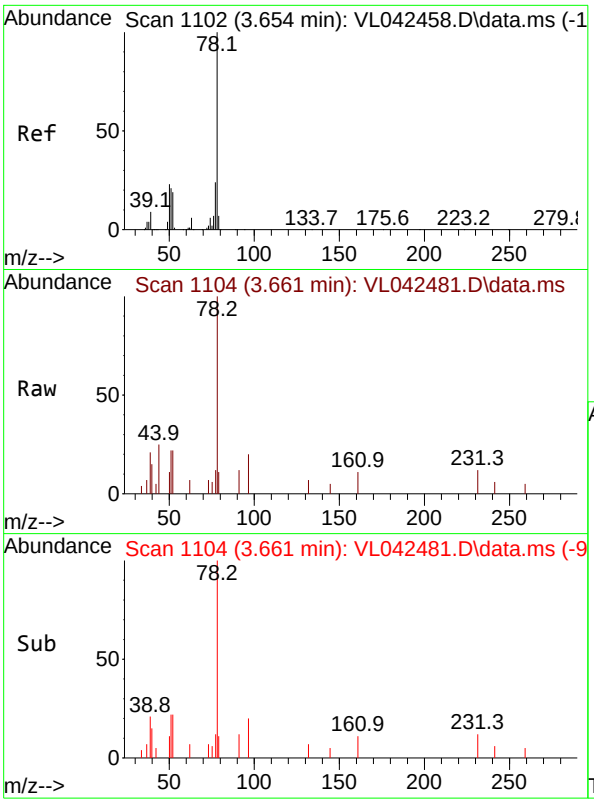


#35
Carbon Tetrachloride
Concen: 0.074 ppbv m
RT: 3.768 min Scan# 1137
Delta R.T. 0.010 min
Lab File: VL042481.D
Acq: 05 May 2025 18:06

Tgt Ion:117 Resp: 1264

Ion	Ratio	Lower	Upper
117	100		
119	89.1	78.1	117.1
121	0.0	23.0	34.6#

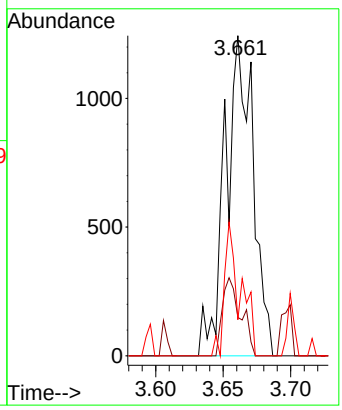




#36
Benzene
Concen: 0.101 ppbv m
RT: 3.661 min Scan# 1
Delta R.T. 0.006 min
Lab File: VL042481.D
Acq: 05 May 2025 18:06

Tgt Ion: 78 Resp: 177

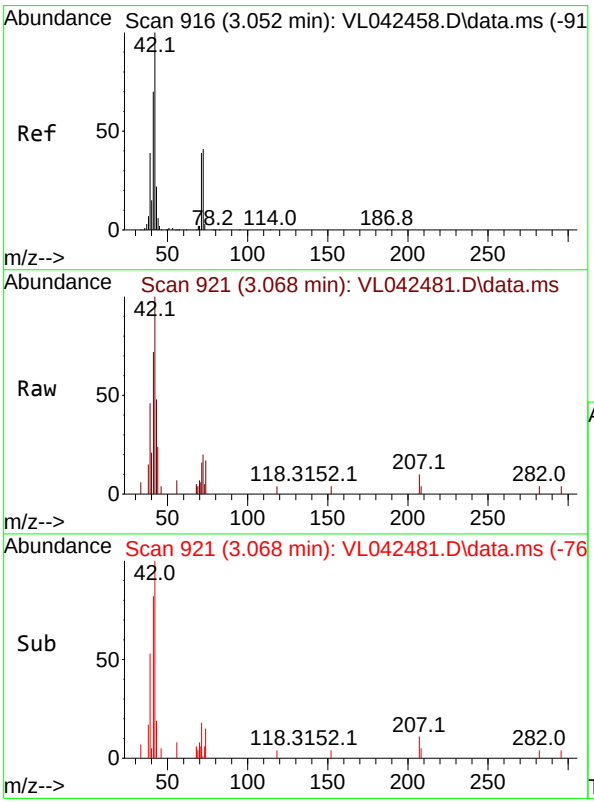
Ion	Ratio	Lower	Upper
78	100		
77	12.0	18.9	28.3#
50	11.3	18.4	27.6#



Instrument :
MSVOA_L
ClientSampleId :
EBR-P07-SC-IA01-20250428

Manual Integrations
APPROVED

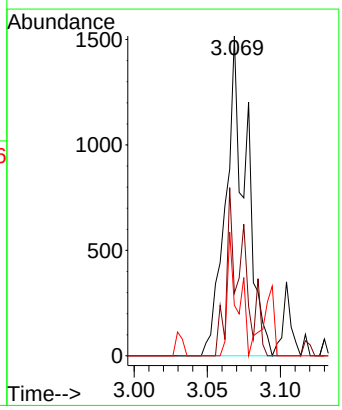
Reviewed By :Semsettin Yesilyurt 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

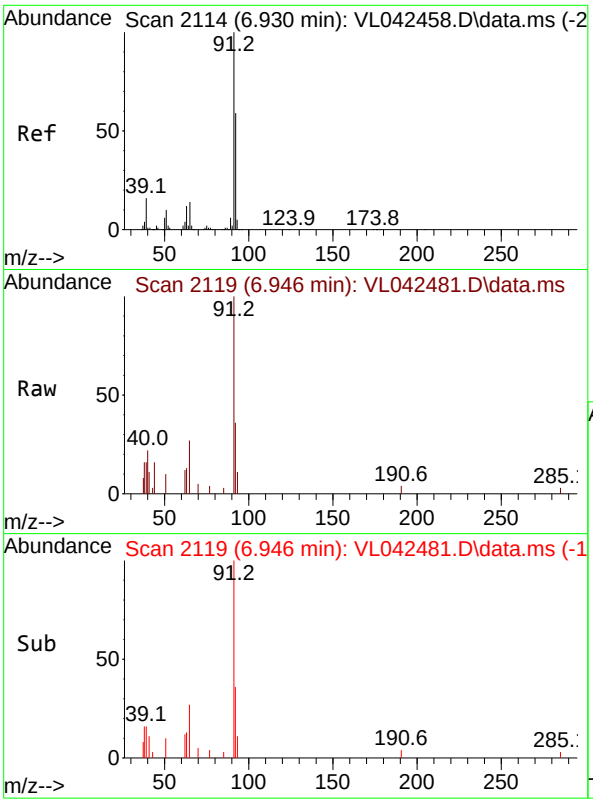


#41
Tetrahydrofuran
Concen: 0.234 ppbv m
RT: 3.068 min Scan# 921
Delta R.T. 0.016 min
Lab File: VL042481.D
Acq: 05 May 2025 18:06

Tgt Ion: 42 Resp: 1504

Ion	Ratio	Lower	Upper
42	100		
72	40.6	33.5	50.3
71	30.8	32.6	49.0#

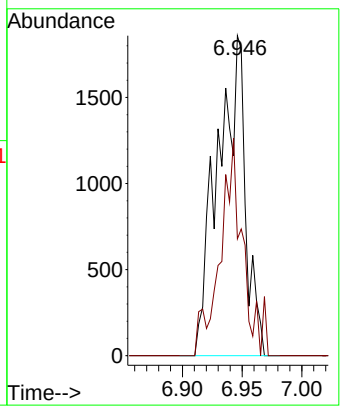




#53
Toluene
Concen: 0.162 ppbv m
RT: 6.946 min Scan# 21
Delta R.T. 0.016 min
Lab File: VL042481.D
Acq: 05 May 2025 18:06

Tgt Ion: 91 Resp: 301

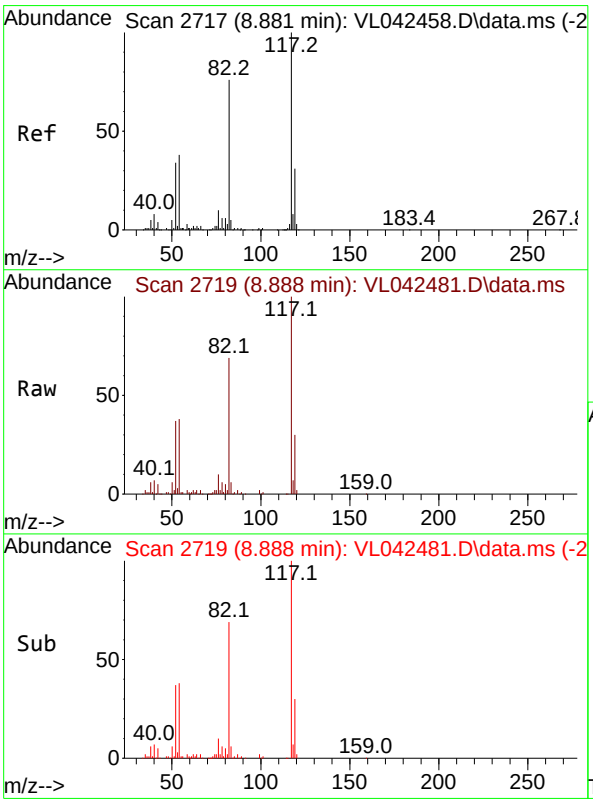
Ion	Ratio	Lower	Upper
91	100		
92	55.3	47.9	71.9



Instrument :
MSVOA_L
ClientSampleId :
EBR-P07-SC-IA01-20250428

Manual Integrations
APPROVED

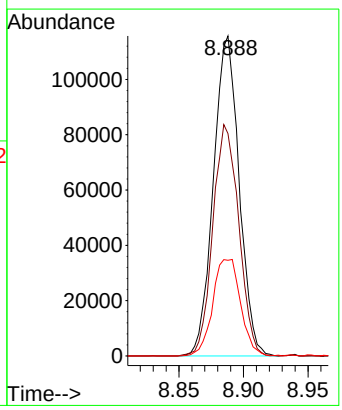
Reviewed By :Semsettin Yesilyurt 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

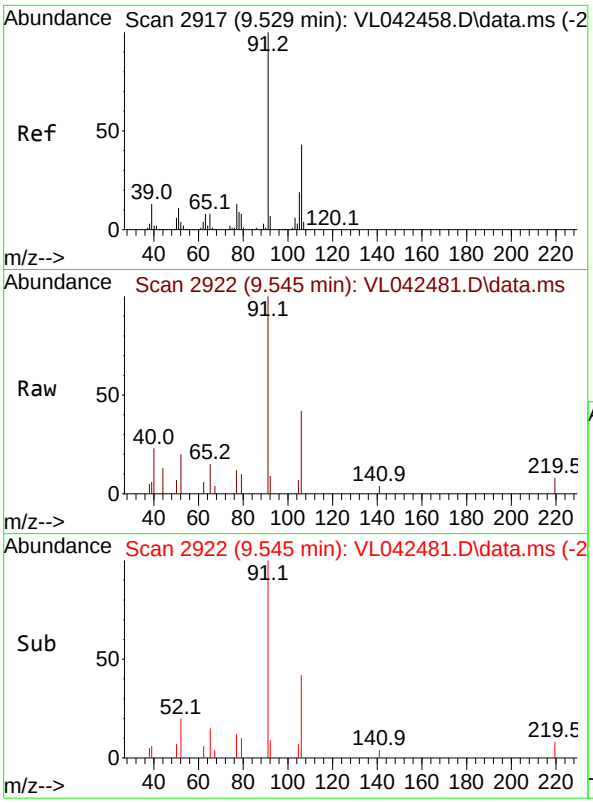


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.888 min Scan# 2719
Delta R.T. 0.007 min
Lab File: VL042481.D
Acq: 05 May 2025 18:06

Tgt Ion:117 Resp: 160233

Ion	Ratio	Lower	Upper
117	100		
82	72.9	63.5	95.3
119	32.7	25.8	38.8

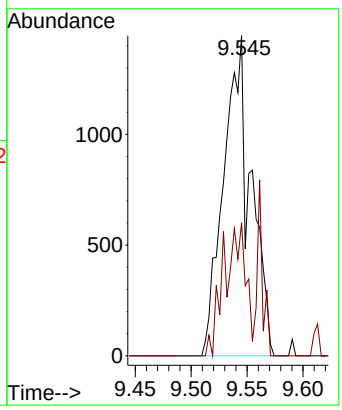




#59
m/p-Xylene
Concen: 0.109 ppbv m
RT: 9.545 min Scan# 2
Delta R.T. 0.016 min
Lab File: VL042481.D
Acq: 05 May 2025 18:06

Tgt Ion: 91 Resp: 245

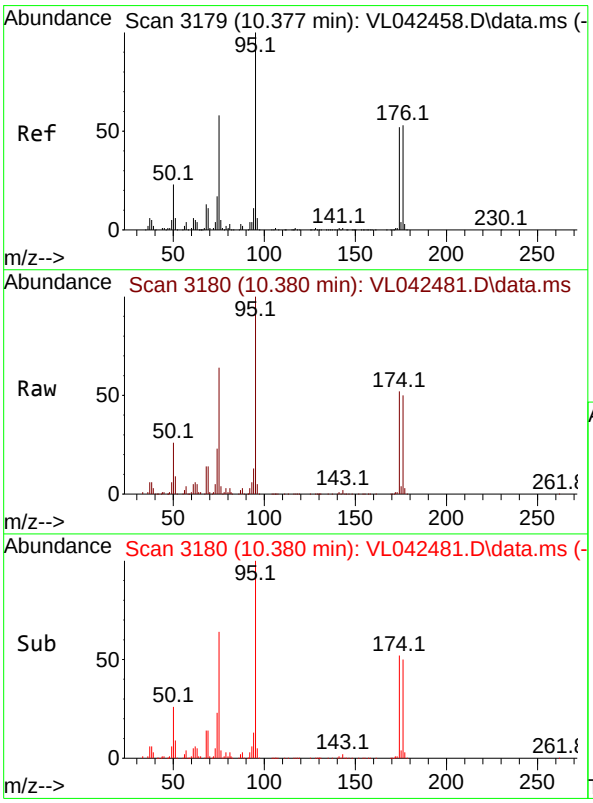
Ion	Ratio	Lower	Upper
91	100		
106	0.0	34.2	51.2



Instrument :
MSVOA_L
ClientSampleId :
EBR-P07-SC-IA01-20250428

Manual Integrations
APPROVED

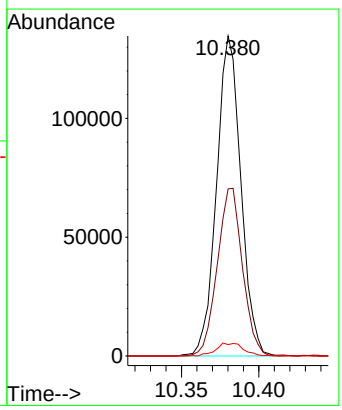
Reviewed By :Semsettin Yesilyurt 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025



#68
1-Bromo-4-Fluorobenzene
Concen: 9.903 ppbv
RT: 10.380 min Scan# 3180
Delta R.T. 0.003 min
Lab File: VL042481.D
Acq: 05 May 2025 18:06

Tgt Ion: 95 Resp: 147117

Ion	Ratio	Lower	Upper
95	100		
174	54.4	42.7	64.1
175	4.5	3.6	5.4



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

Report of Analysis

Client:	Tetra Tech, EMI	Date Collected:	04/29/25
Project:	R36900	Date Received:	04/30/25
Client Sample ID:	EBR-P04-SC-IA01-20250428	SDG No.:	Q1927
Lab Sample ID:	Q1927-06	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
VL042483.D	1		05/05/25 19:15	VL050525

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.56	2.77		1.04	2.47	ug/m3
74-87-3	Chloromethane	0.58	1.20		0.21	1.03	ug/m3
75-01-4	Vinyl Chloride	0.030	0.080	U	0.030	0.080	ug/m3
74-83-9	Bromomethane	0.50	1.94	U	0.54	1.94	ug/m3
75-00-3	Chloroethane	0.50	1.32	U	0.45	1.32	ug/m3
109-99-9	Tetrahydrofuran	0.50	1.47	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	0.50	3.83	U	1.23	3.83	ug/m3
76-14-2	Dichlorotetrafluoroethane	0.50	3.49	U	0.63	3.49	ug/m3
75-65-0	tert-Butyl alcohol	0.50	1.52	U	0.58	1.52	ug/m3
142-82-5	Heptane	0.50	2.05	U	0.45	2.05	ug/m3
75-35-4	1,1-Dichloroethene	0.50	1.98	U	0.56	1.98	ug/m3
67-64-1	Acetone	3.40	8.08		0.57	1.19	ug/m3
75-15-0	Carbon Disulfide	0.50	1.56	U	0.50	1.56	ug/m3
1634-04-4	Methyl tert-Butyl Ether	0.50	1.80	U	0.43	1.80	ug/m3
75-09-2	Methylene Chloride	0.42	1.46	J	0.66	1.74	ug/m3
156-60-5	trans-1,2-Dichloroethene	0.50	1.98	U	0.75	1.98	ug/m3
75-34-3	1,1-Dichloroethane	0.50	2.02	U	0.53	2.02	ug/m3
110-82-7	Cyclohexane	0.50	1.72	U	0.76	1.72	ug/m3
78-93-3	2-Butanone	0.27	0.80	J	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	0.50	1.98	U	0.36	1.98	ug/m3
67-66-3	Chloroform	0.50	2.44	U	0.39	2.44	ug/m3
71-55-6	1,1,1-Trichloroethane	0.030	0.16	U	0.050	0.16	ug/m3
540-84-1	2,2,4-Trimethylpentane	0.50	2.34	U	0.47	2.34	ug/m3
71-43-2	Benzene	0.11	0.35	J	0.29	1.60	ug/m3
107-06-2	1,2-Dichloroethane	0.50	2.02	U	0.36	2.02	ug/m3
79-01-6	Trichloroethene	0.030	0.16	U	0.11	0.16	ug/m3
78-87-5	1,2-Dichloropropane	0.50	2.31	U	0.51	2.31	ug/m3
75-27-4	Bromodichloromethane	0.50	3.35	U	0.54	3.35	ug/m3
108-10-1	4-Methyl-2-Pentanone	0.50	2.05	U	0.37	2.05	ug/m3
108-88-3	Toluene	0.17	0.64	J	0.41	1.88	ug/m3
10061-02-6	t-1,3-Dichloropropene	0.50	2.27	U	0.27	2.27	ug/m3
10061-01-5	cis-1,3-Dichloropropene	0.50	2.27	U	0.27	2.27	ug/m3
79-00-5	1,1,2-Trichloroethane	0.50	2.73	U	0.38	2.73	ug/m3

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

Report of Analysis

Client:	Tetra Tech, EMI	Date Collected:	04/29/25
Project:	R36900	Date Received:	04/30/25
Client Sample ID:	EBR-P04-SC-IA01-20250428	SDG No.:	Q1927
Lab Sample ID:	Q1927-06	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
VL042483.D	1		05/05/25 19:15	VL050525

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	0.50	4.26	U	0.60	4.26	ug/m3
106-93-4	1,2-Dibromoethane	0.10	0.77	U	0.54	0.77	ug/m3
127-18-4	Tetrachloroethene	0.030	0.20	U	0.14	0.20	ug/m3
108-90-7	Chlorobenzene	0.50	2.30	U	0.37	2.30	ug/m3
100-41-4	Ethyl Benzene	0.50	2.17	U	0.52	2.17	ug/m3
179601-23-1	m/p-Xylene	1.00	4.34	U	0.91	4.34	ug/m3
95-47-6	o-Xylene	0.50	2.17	U	0.52	2.17	ug/m3
100-42-5	Styrene	0.50	2.13	U	0.47	2.13	ug/m3
75-25-2	Bromoform	0.50	5.17	U	0.62	5.17	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	0.030	0.21	U	0.070	0.21	ug/m3
95-49-8	2-Chlorotoluene	0.50	2.59	U	0.57	2.59	ug/m3
108-67-8	1,3,5-Trimethylbenzene	0.50	2.46	U	0.54	2.46	ug/m3
95-63-6	1,2,4-Trimethylbenzene	0.50	2.46	U	0.39	2.46	ug/m3
541-73-1	1,3-Dichlorobenzene	0.50	3.01	U	0.48	3.01	ug/m3
106-46-7	1,4-Dichlorobenzene	0.50	3.01	U	0.30	3.01	ug/m3
95-50-1	1,2-Dichlorobenzene	0.50	3.01	U	0.48	3.01	ug/m3
120-82-1	1,2,4-Trichlorobenzene	0.50	3.71	U	0.67	3.71	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	0.50	5.33	U	0.96	5.33	ug/m3
106-99-0	1,3-Butadiene	0.50	1.11	U	0.29	1.11	ug/m3
91-20-3	Naphthalene	0.10	0.52	U	0.42	0.52	ug/m3
622-96-8	4-Ethyltoluene	0.50	2.46	U	0.59	2.46	ug/m3
110-54-3	Hexane	0.50	1.76	U	0.39	1.76	ug/m3
107-05-1	Allyl Chloride	0.50	1.57	U	0.47	1.57	ug/m3
123-91-1	1,4-Dioxane	0.50	1.80	U	0.76	1.80	ug/m3
80-62-6	Methyl Methacrylate	0.50	2.05	U	0.37	2.05	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	10.1			65 - 135	101%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	69800		2.787			
540-36-3	1,4-Difluorobenzene	187000		3.959			
3114-55-4	Chlorobenzene-d5	154000		8.882			

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

Report of Analysis

Client:	Tetra Tech, EMI	Date Collected:	04/29/25
Project:	R36900	Date Received:	04/30/25
Client Sample ID:	EBR-P04-SC-IA01-20250428	SDG No.:	Q1927
Lab Sample ID:	Q1927-06	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
VL042483.D	1		05/05/25 19:15	VL050525

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\VL050525\
Data File : VL042483.D
Acq On : 05 May 2025 19:15
Operator : SY/MD
Sample : Q1927-06
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 06 01:45:26 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri May 02 03:16:31 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
EBR-P04-SC-IA01-20250428

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.787	49	69784	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.959	114	186712	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.882	117	154199	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.377	95	143708	10.052	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 100.500%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.496	85	6496	0.563	ppbv		95
3) Chlorodifluoromethane	1.470	51	8203m	0.672	ppbv		
4) Chloromethane	1.531	50	2807	0.582	ppbv		97
9) Propene	1.486	41	2890m	0.724	ppbv		
11) Trichlorofluoromethane	1.878	101	2631	0.247	ppbv		100
13) Ethanol	1.722	45	16777	20.702	ppbv	#	37
15) Acetone	1.835	43	43287	3.398	ppbv		99
19) Isopropyl Alcohol	1.887	45	18608	2.639	ppbv	#	98
20) Methylene Chloride	2.062	84	1623	0.424	ppbv	#	91
34) 2-Butanone	2.567	43	3685	0.273	ppbv		98
35) Carbon Tetrachloride	3.761	117	1501m	0.088	ppbv		
36) Benzene	3.658	78	1923m	0.109	ppbv		
53) Toluene	6.923	91	3234m	0.173	ppbv		

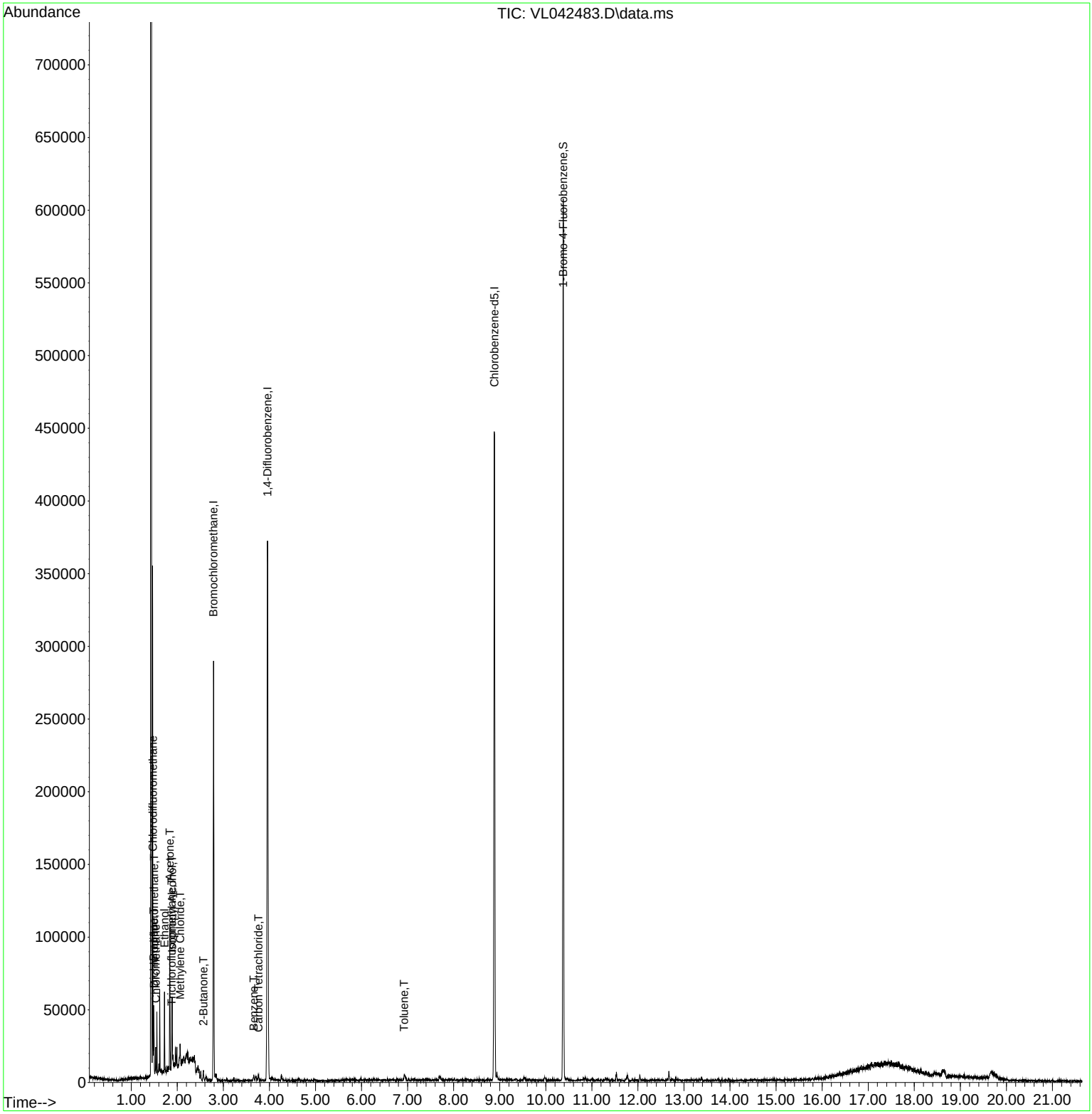
(#) = qualifier out of range (m) = manual integration (+) = signals summed

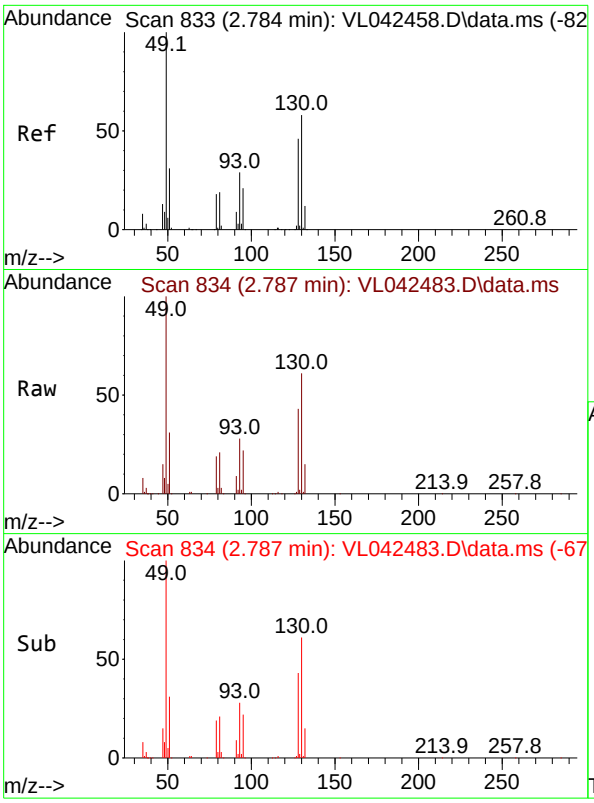
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050525\
Data File : VL042483.D
Acq On : 05 May 2025 19:15
Operator : SY/MD
Sample : Q1927-06
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 06 01:45:26 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri May 02 03:16:31 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
EBR-P04-SC-IA01-20250428

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

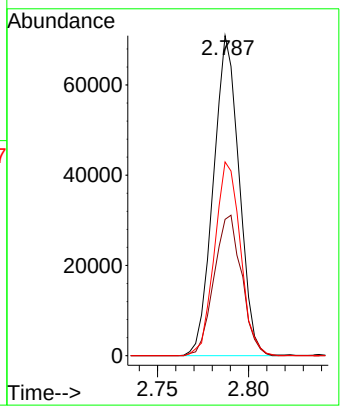




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042483.D
Acq: 05 May 2025 19:15

Tgt Ion: 49 Resp: 6978

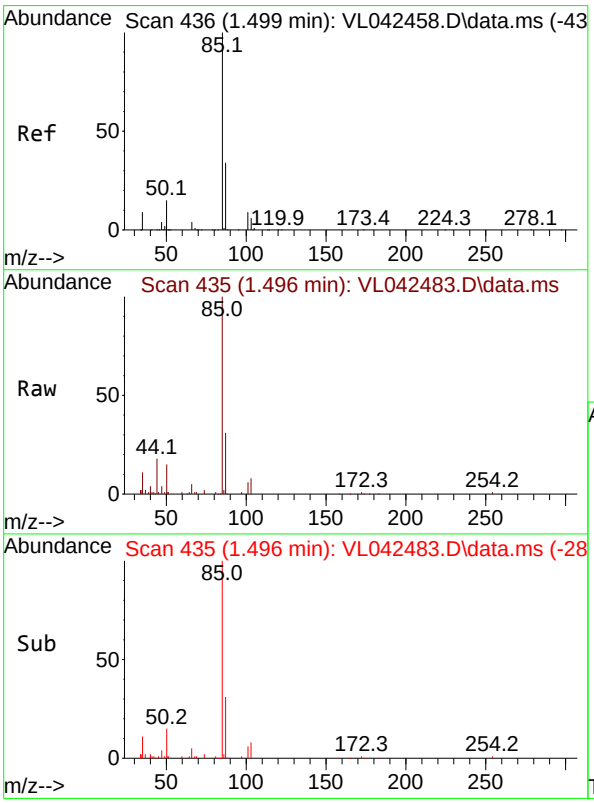
Ion	Ratio	Lower	Upper
49	100		
128	47.0	23.3	69.9
130	61.0	29.5	88.6



Instrument :
MSVOA_L
ClientSampleId :
EBR-P04-SC-IA01-20250428

Manual Integrations
APPROVED

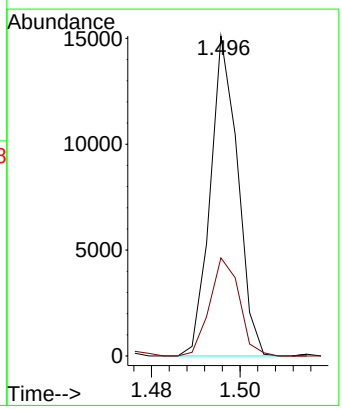
Reviewed By :Semsettin Yesilyurt 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

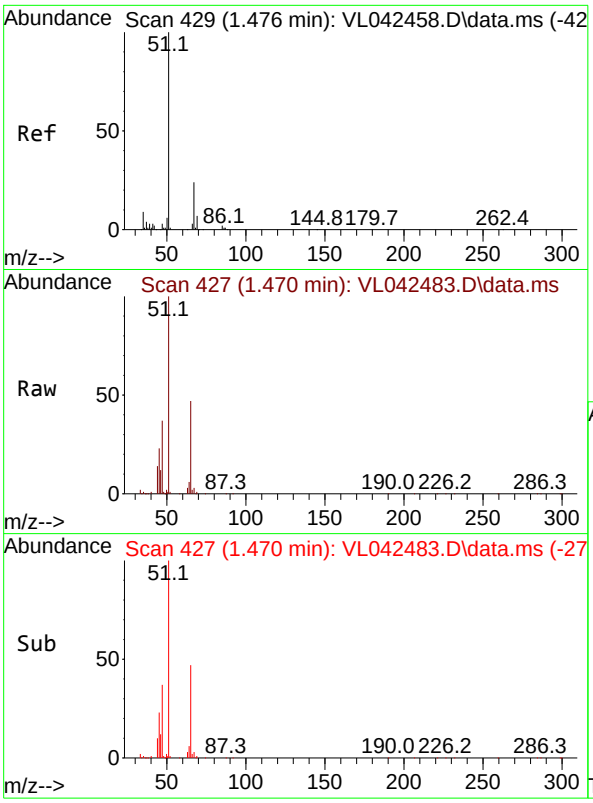


#2
Dichlorodifluoromethane
Concen: 0.563 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.003 min
Lab File: VL042483.D
Acq: 05 May 2025 19:15

Tgt Ion: 85 Resp: 6496

Ion	Ratio	Lower	Upper
85	100		
87	30.6	26.9	40.3

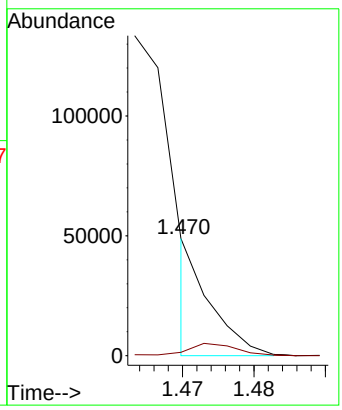




#3
Chlorodifluoromethane
Concen: 0.672 ppbv m
RT: 1.470 min Scan# 4
Delta R.T. -0.006 min
Lab File: VL042483.D
Acq: 05 May 2025 19:15

Tgt Ion: 51 Resp: 820

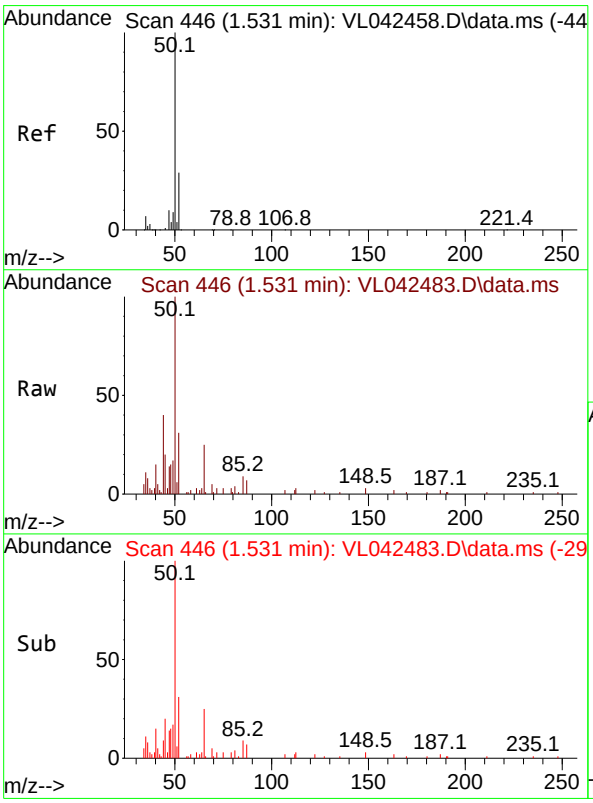
Ion	Ratio	Lower	Upper
51	100		
67	30.4	18.4	27.6



Instrument :
MSVOA_L
ClientSampleId :
EBR-P04-SC-IA01-20250428

Manual Integrations
APPROVED

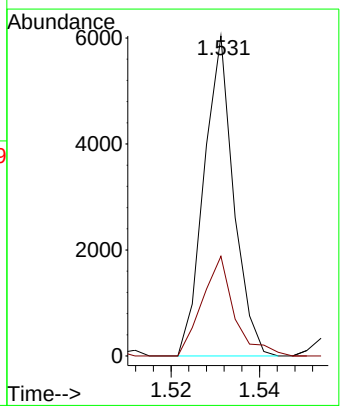
Reviewed By :Semsettin Yesilyurt 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

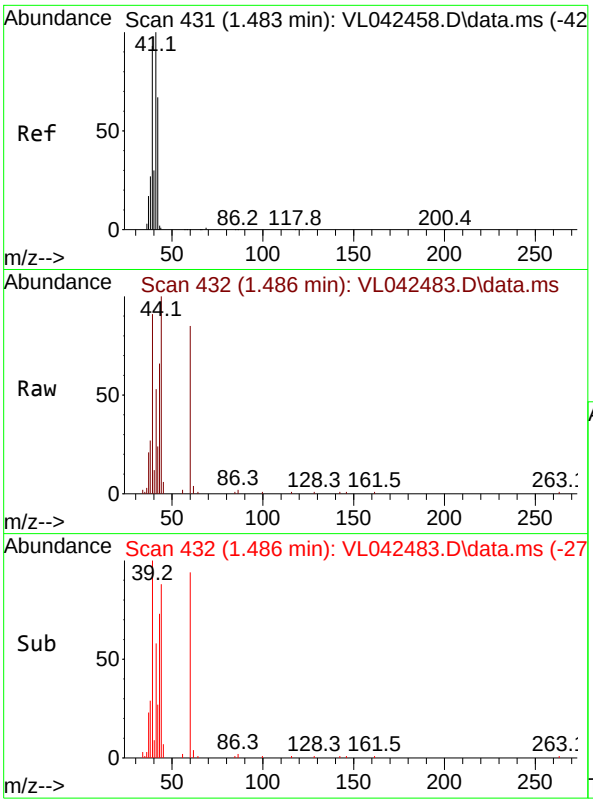


#4
Chloromethane
Concen: 0.582 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL042483.D
Acq: 05 May 2025 19:15

Tgt Ion: 50 Resp: 2807

Ion	Ratio	Lower	Upper
50	100		
52	31.2	23.5	35.3

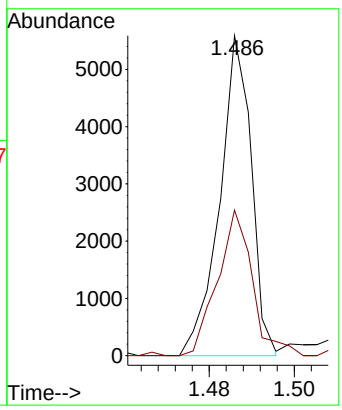




#9
Propene
Concen: 0.724 ppbv m
RT: 1.486 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL042483.D
Acq: 05 May 2025 19:15

Tgt Ion: 41 Resp: 289

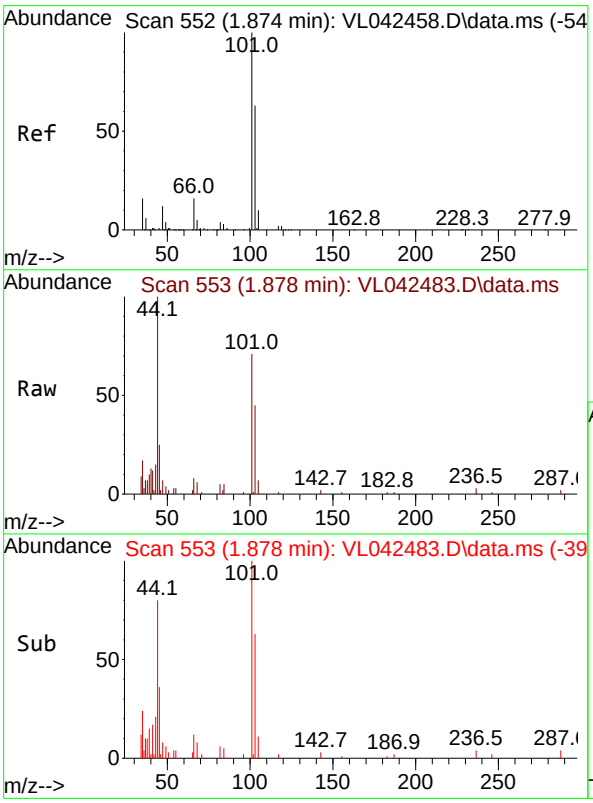
Ion	Ratio	Lower	Upper
41	100		
42	6.6	54.3	81.5#



Instrument :
MSVOA_L
ClientSampleId :
EBR-P04-SC-IA01-20250428

Manual Integrations
APPROVED

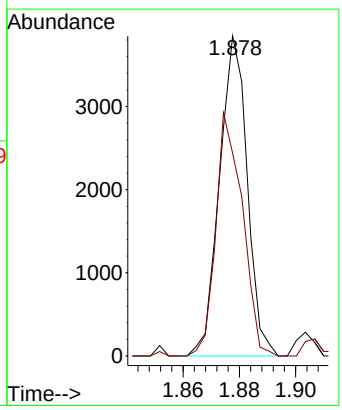
Reviewed By :Semsettin Yesilyurt 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

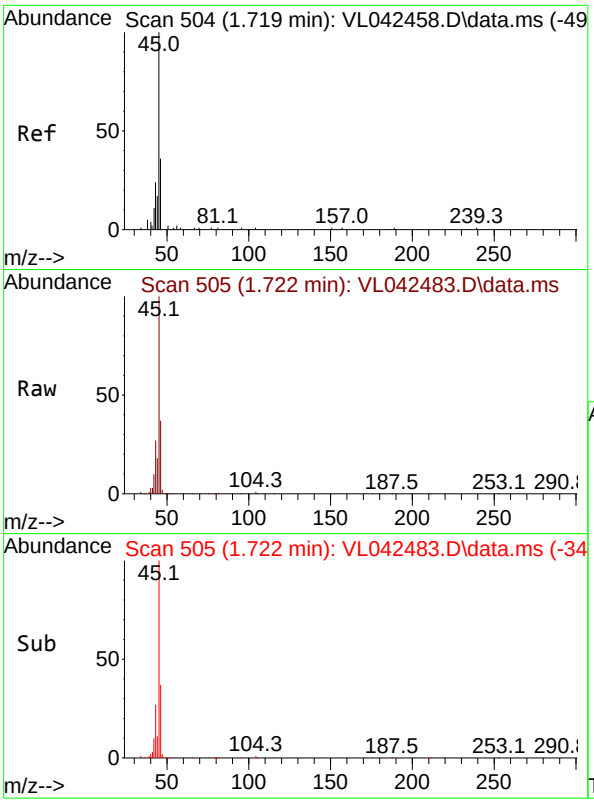


#11
Trichlorofluoromethane
Concen: 0.247 ppbv
RT: 1.878 min Scan# 553
Delta R.T. 0.003 min
Lab File: VL042483.D
Acq: 05 May 2025 19:15

Tgt Ion:101 Resp: 2631

Ion	Ratio	Lower	Upper
101	100		
103	63.4	50.6	76.0

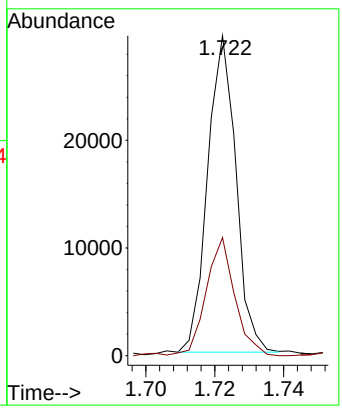




#13
Ethanol
Concen: 20.702 ppbv
RT: 1.722 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042483.D
Acq: 05 May 2025 19:15

Tgt Ion: 45 Resp: 1677

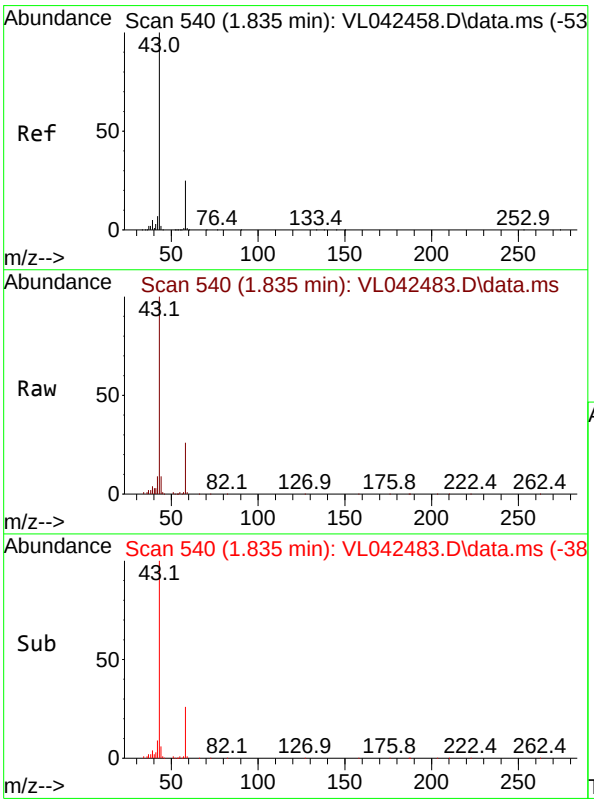
Ion	Ratio	Lower	Upper
45	100		
46	0.0	15.3	61.1



Instrument :
MSVOA_L
ClientSampleId :
EBR-P04-SC-IA01-20250428

Manual Integrations
APPROVED

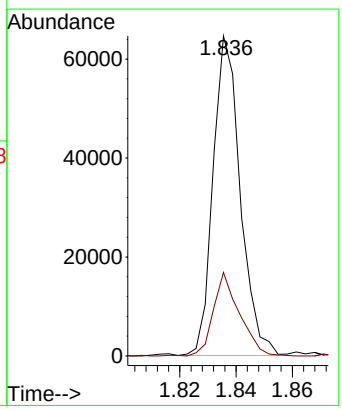
Reviewed By :Semsettin Yesilyurt 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

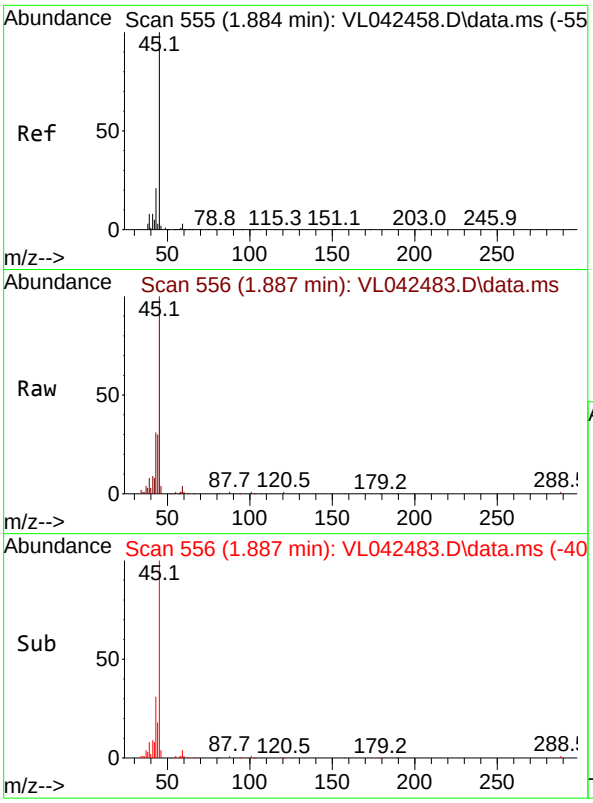


#15
Acetone
Concen: 3.398 ppbv
RT: 1.835 min Scan# 540
Delta R.T. 0.000 min
Lab File: VL042483.D
Acq: 05 May 2025 19:15

Tgt Ion: 43 Resp: 43287

Ion	Ratio	Lower	Upper
43	100		
58	25.1	19.8	29.8

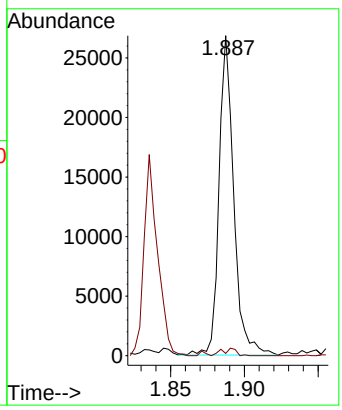




#19
Isopropyl Alcohol
Concen: 2.639 ppbv
RT: 1.887 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042483.D
Acq: 05 May 2025 19:15

Tgt Ion: 45 Resp: 1860

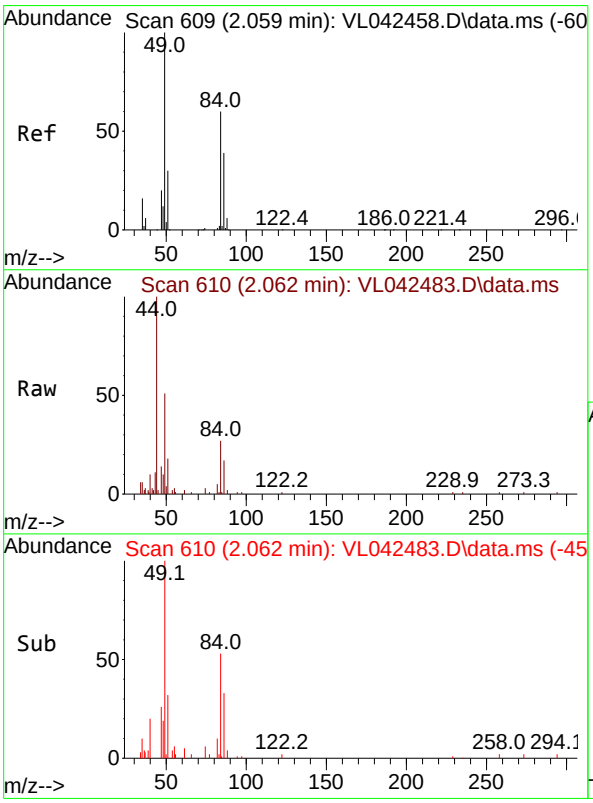
Ion	Ratio	Lower	Upper
45	100		
58	2.8	1.6	2.4#



Instrument :
MSVOA_L
ClientSampleId :
EBR-P04-SC-IA01-20250428

Manual Integrations
APPROVED

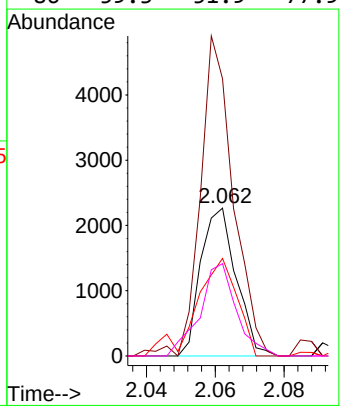
Reviewed By :Semsettin Yesilyurt 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

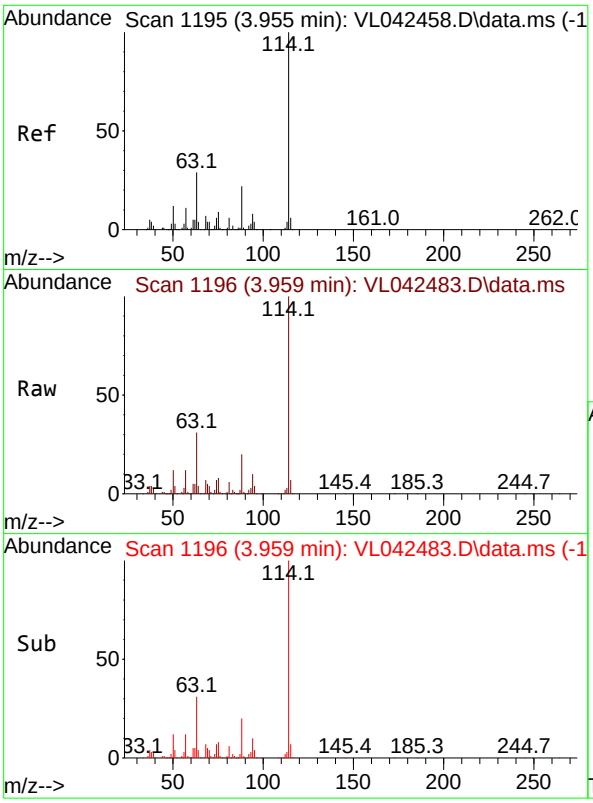


#20
Methylene Chloride
Concen: 0.424 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.003 min
Lab File: VL042483.D
Acq: 05 May 2025 19:15

Tgt Ion: 84 Resp: 1623

Ion	Ratio	Lower	Upper
84	100		
49	177.9	133.9	200.9
51	62.7	41.0	61.6#
86	59.3	51.9	77.9

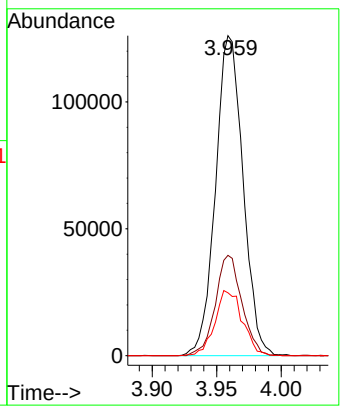




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.959 min Scan# 1
Delta R.T. 0.003 min
Lab File: VL042483.D
Acq: 05 May 2025 19:15

Tgt Ion:114 Resp: 18671

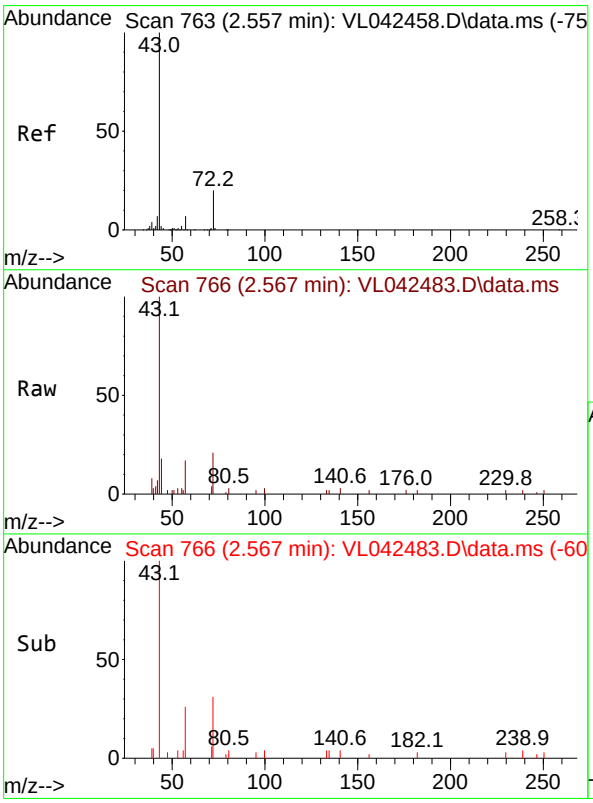
Ion	Ratio	Lower	Upper
114	100		
63	30.2	23.1	34.7
88	20.4	16.1	24.1



Instrument :
MSVOA_L
ClientSampleId :
EBR-P04-SC-IA01-20250428

Manual Integrations
APPROVED

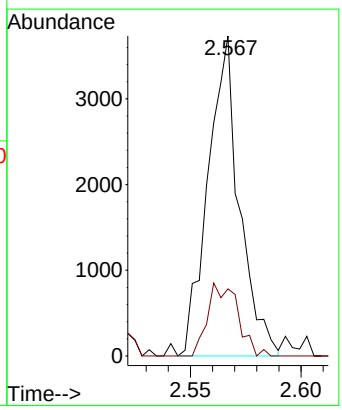
Reviewed By :Semsettin Yesilyurt 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

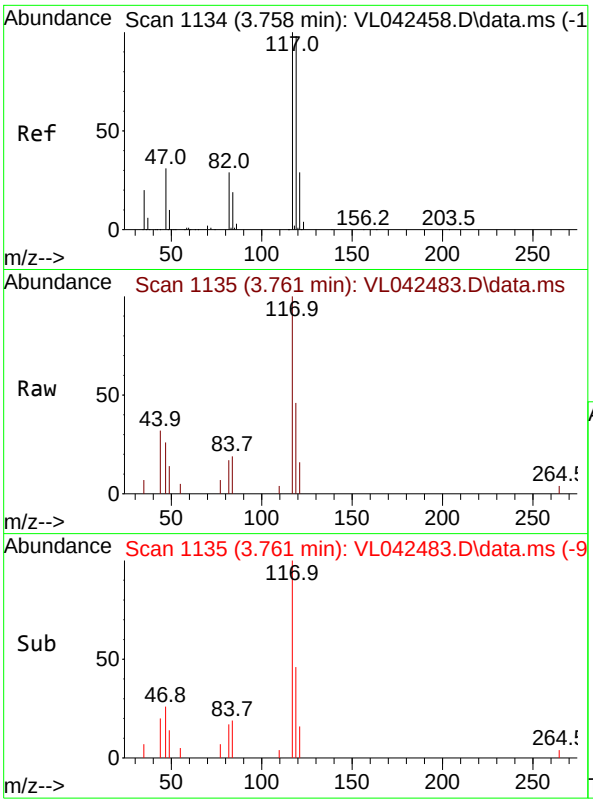


#34
2-Butanone
Concen: 0.273 ppbv
RT: 2.567 min Scan# 766
Delta R.T. 0.010 min
Lab File: VL042483.D
Acq: 05 May 2025 19:15

Tgt Ion: 43 Resp: 3685

Ion	Ratio	Lower	Upper
43	100		
72	21.8	16.7	25.1

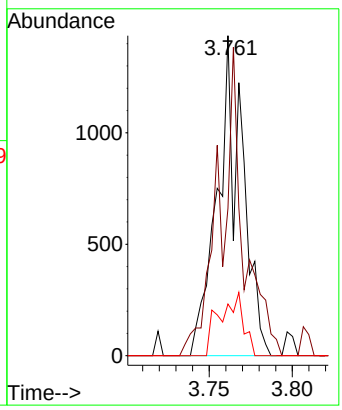




#35
Carbon Tetrachloride
Concen: 0.088 ppbv m
RT: 3.761 min Scan# 1
Delta R.T. 0.003 min
Lab File: VL042483.D
Acq: 05 May 2025 19:15

Tgt Ion:117 Resp: 150

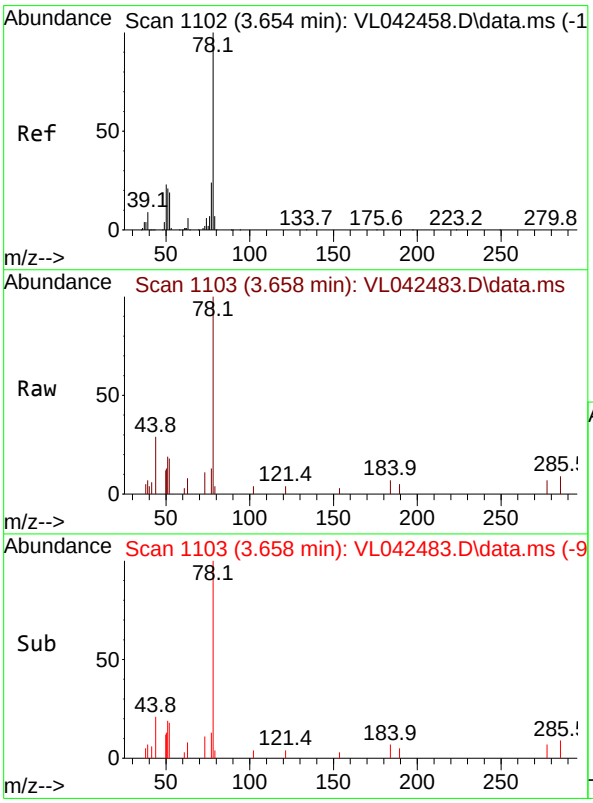
Ion	Ratio	Lower	Upper
117	100		
119	46.0	78.1	117.1#
121	16.2	23.0	34.6#



Instrument :
MSVOA_L
ClientSampleId :
EBR-P04-SC-IA01-20250428

Manual Integrations
APPROVED

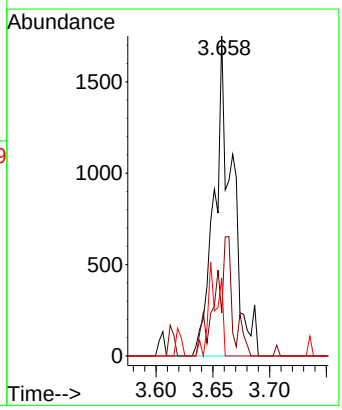
Reviewed By :Semsettin Yesilyurt 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

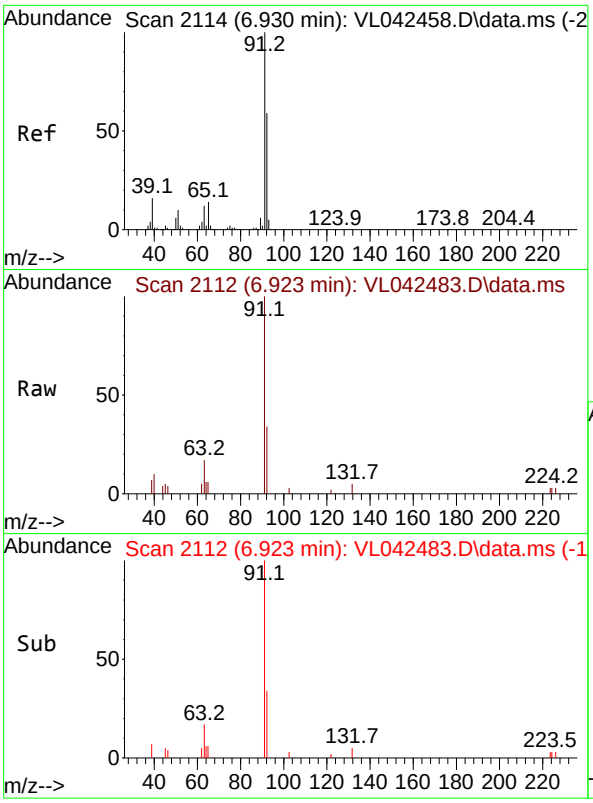


#36
Benzene
Concen: 0.109 ppbv m
RT: 3.658 min Scan# 1103
Delta R.T. 0.003 min
Lab File: VL042483.D
Acq: 05 May 2025 19:15

Tgt Ion: 78 Resp: 1923

Ion	Ratio	Lower	Upper
78	100		
77	13.4	18.9	28.3#
50	12.6	18.4	27.6#

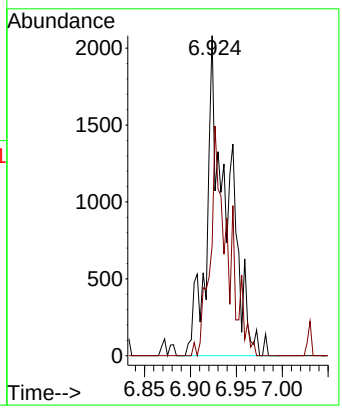




#53
Toluene
Concen: 0.173 ppbv m
RT: 6.923 min Scan# 21
Delta R.T. -0.006 min
Lab File: VL042483.D
Acq: 05 May 2025 19:15

Tgt Ion: 91 Resp: 3234

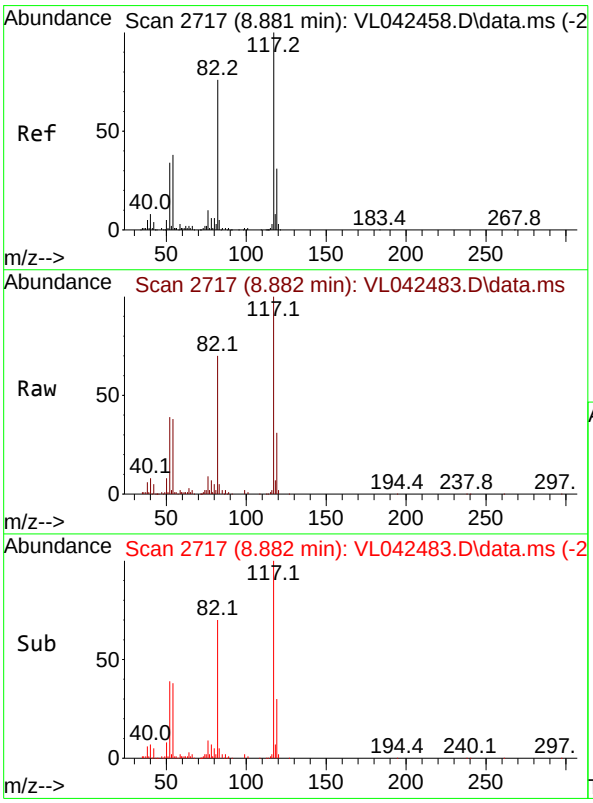
Ion	Ratio	Lower	Upper
91	100		
92	61.3	47.9	71.9



Instrument :
MSVOA_L
ClientSampleId :
EBR-P04-SC-IA01-20250428

Manual Integrations
APPROVED

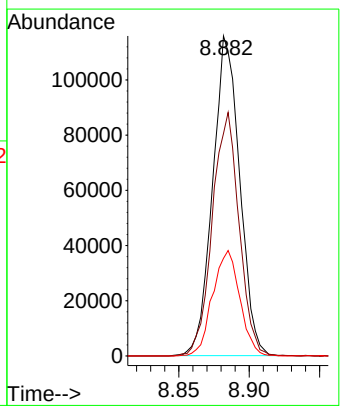
Reviewed By :Semsettin Yesilyurt 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

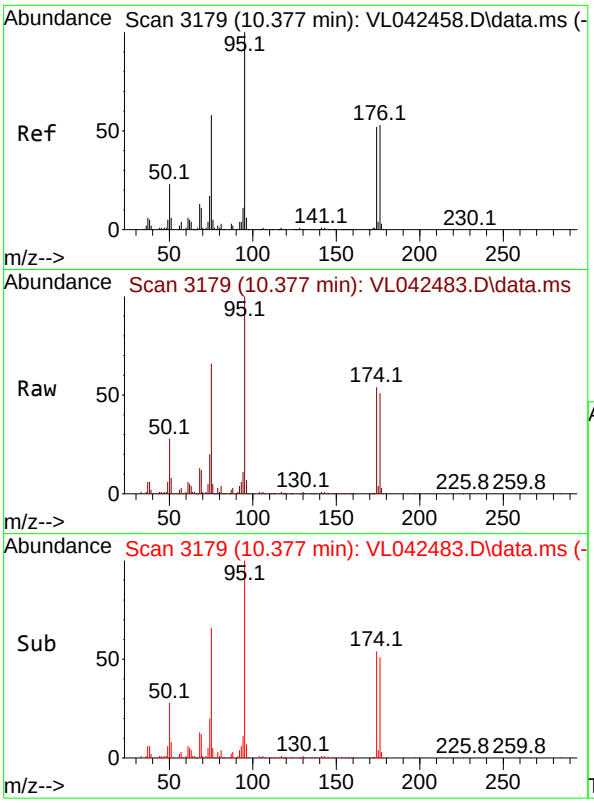


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.882 min Scan# 2717
Delta R.T. 0.000 min
Lab File: VL042483.D
Acq: 05 May 2025 19:15

Tgt Ion:117 Resp: 154199

Ion	Ratio	Lower	Upper
117	100		
82	75.9	63.5	95.3
119	33.4	25.8	38.8

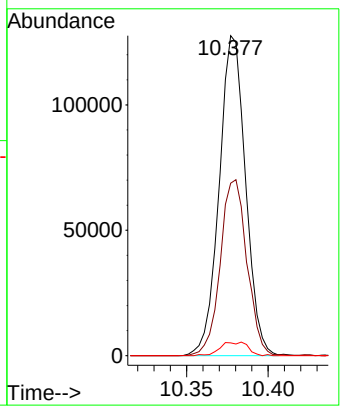




#68
1-Bromo-4-Fluorobenzene
Concen: 10.052 ppbv
RT: 10.377 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042483.D
Acq: 05 May 2025 19:15

Tgt Ion: 95 Resp: 14370

Ion	Ratio	Lower	Upper
95	100		
174	55.7	42.7	64.1
175	4.5	3.6	5.4



Instrument :
MSVOA_L
ClientSampleId :
EBR-P04-SC-IA01-20250428

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

CALIBRATION SUMMARY

Response Factor Report MSVOA_L

Method Path : Z:\voasrv\HPCHEM1\MSVOA_L\methods\
Method File : VL050125AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
Last Update : Fri May 02 03:16:31 2025
Response Via : Initial Calibration

Calibration Files
0.03=VL042466.D 0.1 =VL042462.D 0.5 =VL042461.D 1 =VL042460.D 2 =VL042459.D 10 =VL042458.D 15 =VL042465.D

		Compound	0.03	0.1	0.5	1	2	10	15	Avg	%RSD
1)	I	Bromochloromethane	----------ISTD----------								
2)	T	Dichlorodifluo...			1.887	1.650	1.629	1.470	1.639	1.655	9.01
3)		Chlorodifluoro...			1.886	1.871	1.820	1.569	1.602	1.750	8.71
4)		Chloromethane			0.738	0.696	0.734	0.624	0.666	0.692	6.90
5)	T	Vinyl Chloride		0.756	0.964	0.708	0.625	0.623	0.567	0.631	0.696	19.18
6)	T	Bromomethane			0.349	0.359	0.327	0.286	0.324	0.329	8.64
7)		Chloroethane			0.250	0.272	0.271	0.231	0.261	0.257	6.55
8)	T	Dichlorotetraf...			1.445	1.371	1.402	1.235	1.368	1.364	5.77
9)	T	Propene			0.585	0.606	0.631	0.525	0.515	0.572	8.84
10)	T	Heptane			1.276	1.634	1.593	1.445	1.474	1.484	9.48
11)	T	Trichlorofluor...			1.660	1.489	1.528	1.376	1.582	1.527	6.96
12)	T	1,1,2-Trichlor...			1.318	1.234	1.245	1.099	1.201	1.219	6.52
13)		Ethanol			0.138	0.136	0.143	0.080	0.084	0.116	27.19
14)	T	Bromoethene			0.488	0.443	0.457	0.398	0.466	0.450	7.39
15)	T	Acetone			2.229	2.094	2.022	1.318	1.465	1.826	22.28
16)	T	1,3-Butadiene			0.883	0.874	0.836	0.681	0.751	0.805	10.77
17)		tert-Butyl alc...			1.816	1.615	1.620	1.489	1.502	1.608	8.15
18)	T	1,1-Dichloroet...			0.650	0.587	0.567	0.495	0.547	0.569	9.98
19)	T	Isopropyl Alcohol			1.221	1.087	0.976	0.876	0.891	1.010	14.33
20)	T	Methylene Chlo...			0.753	0.547	0.518	0.449	0.477	0.549	21.88
21)	T	Allyl Chloride			1.283	1.181	1.164	1.076	1.166	1.174	6.25
22)	T	trans-1,2-Dich...			0.741	0.742	0.645	0.552	0.644	0.665	11.96
23)	T	Vinyl Acetate			1.898	1.521	1.810	1.726	1.756	1.742	8.03
24)	T	1,1-Dichloroet...			1.432	1.465	1.368	1.196	1.322	1.357	7.79
25)	T	Ethyl Acetate			3.002	3.044	2.945	2.832	2.792	2.923	3.69
26)	T	Hexane			1.278	1.290	1.345	1.215	1.239	1.273	3.91
27)	T	Carbon Disulfide			1.509	1.446	1.499	1.418	1.558	1.486	3.69
28)	T	Methyl tert-Bu...			0.802	0.853	0.759	0.671	0.740	0.765	8.91
29)	T	Chloroform			2.551	2.482	2.399	2.198	2.301	2.386	5.89
30)	T	Cyclohexane			1.135	0.998	1.096	1.045	1.048	1.065	4.92
31)	T	cis-1,2-Dichlo...			1.551	1.604	1.545	1.342	1.386	1.486	7.71
32)	T	1,1,1-Trichlor...	2.980	2.842	2.567	2.501	2.511	2.288	2.433	2.589	9.28
33)	I	1,4-Difluorobenzene	----------ISTD----------								
34)	T	2-Butanone			0.802	0.732	0.774	0.659	0.650	0.723	9.32
35)	T	Carbon Tetrach...	1.166	0.799	0.856	0.935	0.875	0.827	0.902	0.908	13.44
36)	T	Benzene			0.924	0.974	1.036	0.892	0.892	0.944	6.53
37)	T	1,2-Dichloroet...			0.738	0.755	0.769	0.666	0.709	0.727	5.66
38)	T	Trichloroethene	0.241	0.419	0.389	0.364	0.404	0.347	0.355	0.360	16.31
39)	T	1,2-Dichloropr...			0.368	0.405	0.362	0.317	0.315	0.353	10.71

Response Factor Report MSVOA_L

Method Path : Z:\voasrv\HPCHEM1\MSVOA_L\methods\
Method File : VL050125AIR.M

40)	T	1,4-Dioxane			0.176	0.185	0.172	0.151	0.144	0.165	10.60
41)	T	Tetrahydrofuran			0.329	0.354	0.387	0.326	0.322	0.344	7.98
42)	T	Bromodichlorom...			0.848	0.921	0.931	0.839	0.904	0.889	4.77
43)		Methyl Methacr...			0.328	0.341	0.362	0.363	0.366	0.352	4.72
44)	T	2,2,4-Trimethy...			1.490	1.590	1.633	1.437	1.498	1.530	5.23
45)	T	t-1,3-Dichloro...			0.438	0.423	0.460	0.480	0.510	0.462	7.46
46)	T	cis-1,3-Dichlo...			0.526	0.539	0.549	0.555	0.577	0.549	3.47
47)	T	1,1,2-Trichlor...			0.372	0.409	0.428	0.357	0.371	0.387	7.74
48)	T	Dibromochlorom...			0.651	0.643	0.673	0.630	0.674	0.654	2.96
49)	T	Bromoform			0.540	0.535	0.573	0.527	0.568	0.549	3.73
50)	T	4-Methyl-2-Pen...			0.852	0.980	0.985	0.870	0.887	0.915	6.92
51)	T	2-Hexanone			0.649	0.754	0.797	0.722	0.736	0.731	7.42
52)	T	Tetrachloroethene	0.509	0.380	0.325	0.339	0.338	0.305	0.318	0.359	19.49
53)	T	Toluene			0.935	0.969	1.025	1.016	1.050	0.999	4.64
54)	T	1,2-Dibromoethane		0.625	0.589	0.599	0.610	0.554	0.577	0.592	4.26
55)	I	Chlorobenzene-d5	----------ISTD----------								
56)		1,1,1,2-Tetrac...			0.618	0.633	0.596	0.542	0.564	0.591	6.38
57)	T	Chlorobenzene			1.101	1.060	1.036	0.904	0.923	1.005	8.64
58)	T	Ethyl Benzene			1.492	1.634	1.752	1.725	1.754	1.671	6.68
59)	T	m/p-Xylene			1.212	1.378	1.506	1.429	1.479	1.401	8.31
60)	T	o-Xylene			1.197	1.393	1.519	1.423	1.481	1.403	8.90
61)	T	Styrene			0.415	0.500	0.538	0.583	0.582	0.523	13.35
62)		Isopropylbenzene			1.781	2.030	2.165	2.033	2.108	2.023	7.26
63)	T	1,1,2,2-Tetrac...	1.140	0.945	0.976	0.985	0.990	0.846	0.887	0.967	9.69
64)		n-propylbenzene			0.400	0.524	0.549	0.482	0.518	0.495	11.75
65)		tert-Butylbenzene			1.519	1.791	2.028	1.817	1.873	1.806	10.23
66)	T	Benzyl Chloride			0.158	0.204	0.195	0.232	0.255	0.209	17.73
67)		sec-Butylbenzene			2.149	2.560	2.905	2.541	2.675	2.566	10.69
68)	S	1-Bromo-4-Fluo...	0.920	0.911	0.902	0.928	0.915	0.951	0.963	0.927	2.39
69)		p-Isopropyltol...			1.805	2.166	2.406	2.150	2.283	2.162	10.39
70)		n-Butylbenzene			1.802	2.218	2.560	2.198	2.396	2.235	12.66
71)		2-Chlorotoluene			1.405	1.569	1.697	1.597	1.667	1.587	7.20
72)	T	4-Ethyltoluene			1.281	1.647	1.828	1.722	1.792	1.654	13.28
73)	T	1,3,5-Trimethy...			1.177	1.467	1.618	1.475	1.535	1.455	11.44
74)	T	1,2,4-Trimethy...			1.568	1.788	2.075	1.646	1.723	1.760	11.07
75)	T	1,3-Dichlorobe...			0.975	1.022	1.056	0.893	0.952	0.980	6.42
76)	T	1,4-Dichlorobe...			0.869	0.945	0.966	0.907	0.949	0.927	4.22
77)	T	1,2-Dichlorobe...			0.977	1.007	1.033	0.864	0.914	0.959	7.23
78)	T	Hexachloro-1,3...			1.028	1.081	1.070	0.772	0.838	0.958	14.93
79)	T	Naphthalene		0.720	1.168	1.657	2.155	1.527	1.661	1.482	33.01
80)	T	Naphthalene,2-...			0.498	0.925	1.573	1.172	1.338	1.101	37.38
81)	T	1,2,4-Trichlor...			0.599	0.798	0.947	0.778	0.828	0.790	15.84

(#) = Out of Range

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050125\
Data File : VL042458.D
Acq On : 01 May 2025 09:03
Operator : SY/MD
Sample : VSTDICCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 02 01:39:48 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri May 02 01:37:48 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.784	49	71402	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.955	114	201290	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.881	117	174168	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	165650	10.258	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 102.600%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	104948	8.882	ppbv	100
3) Chlorodifluoromethane	1.476	51	112008	8.966	ppbv	100
4) Chloromethane	1.531	50	44585	9.028	ppbv	100
5) Vinyl Chloride	1.580	62	40466	8.138	ppbv	100
6) Bromomethane	1.667	94	20392	8.680	ppbv	100
7) Chloroethane	1.703	64	16528	9.002	ppbv	100
8) Dichlorotetrafluoroethane	1.554	85	88162	9.051	ppbv	100
9) Propene	1.483	41	37491	9.175	ppbv	100
10) Heptane	4.978	43	103167	9.733	ppbv	100
11) Trichlorofluoromethane	1.874	101	98215	9.320	ppbv	100
12) 1,1,2-Trichlorotrifluo...	2.136	101	78482	9.015	ppbv	100
13) Ethanol	1.719	45	5679	6.849	ppbv	100
14) Bromoethene	1.780	108	28440	8.849	ppbv	100
15) Acetone	1.835	43	94092	7.219	ppbv	100
16) 1,3-Butadiene	1.609	39	48641	8.461	ppbv	100
17) tert-Butyl alcohol	2.039	59	106304	9.257	ppbv	100
18) 1,1-Dichloroethene	2.033	96	35320	8.689	ppbv	100
19) Isopropyl Alcohol	1.884	45	62533	8.668	ppbv	100
20) Methylene Chloride	2.059	84	32039	8.176	ppbv	100
21) Allyl Chloride	2.094	41	76859	9.169	ppbv	100
22) trans-1,2-Dichloroethene	2.340	96	39427	8.305	ppbv	100
23) Vinyl Acetate	2.460	43	123215	10.146	ppbv	100
24) 1,1-Dichloroethane	2.408	63	85367	8.814	ppbv	100
25) Ethyl Acetate	2.835	43	202215	9.689	ppbv	100
26) Hexane	2.826	57	86764	9.543	ppbv	100
27) Carbon Disulfide	2.146	76	101248	9.542	ppbv #	92
28) Methyl tert-Butyl Ether	2.437	73	47941	8.777	ppbv	100
29) Chloroform	2.848	83	156976	9.213	ppbv	100
30) Cyclohexane	3.855	84	74614	9.815	ppbv	100
31) cis-1,2-Dichloroethene	2.719	61	95797	9.031	ppbv	100
32) 1,1,1-Trichloroethane	3.366	97	163334	8.836	ppbv	100
34) 2-Butanone	2.557	43	132685	9.113	ppbv	100
35) Carbon Tetrachloride	3.758	117	166490	9.511	ppbv	100
36) Benzene	3.654	78	179532	9.451	ppbv	100
37) 1,2-Dichloroethane	3.217	62	133963	9.150	ppbv	100
38) Trichloroethene	4.544	130	69846	9.642	ppbv	100
39) 1,2-Dichloropropane	4.311	63	63894	8.979	ppbv	100
40) 1,4-Dioxane	4.583	88	30303m	9.161	ppbv	
41) Tetrahydrofuran	3.052	42	65713	9.516	ppbv	100
42) Bromodichloromethane	4.486	83	168957	9.445	ppbv	100
43) Methyl Methacrylate	4.881	69	73117	10.339	ppbv	100
44) 2,2,4-Trimethylpentane	4.635	57	289161	9.420	ppbv	100
45) t-1,3-Dichloropropene	6.412	75	96692	10.385	ppbv	100

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050125\
Data File : VL042458.D
Acq On : 01 May 2025 09:03
Operator : SY/MD
Sample : VSTDICCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 02 01:39:48 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri May 02 01:37:48 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.600	75	111768	10.111	ppbv	100
47) 1,1,2-Trichloroethane	6.580	97	71805	9.207	ppbv	100
48) Dibromochloromethane	7.386	129	126754	9.628	ppbv	100
49) Bromoform	9.480	173	106108	9.610	ppbv	100
50) 4-Methyl-2-Pentanone	5.748	43	175193	9.518	ppbv	100
51) 2-Hexanone	7.435	43	145272	9.855	ppbv	100
52) Tetrachloroethene	8.224	164	61456	8.500	ppbv	100
53) Toluene	6.930	91	204494	10.171	ppbv	100
54) 1,2-Dibromoethane	7.648	107	111506	9.300	ppbv	100
56) 1,1,1,2-Tetrachloroethane	8.924	131	94346	9.172	ppbv	99
57) Chlorobenzene	8.920	112	157401	8.994	ppbv	100
58) Ethyl Benzene	9.354	91	300412	10.321	ppbv	100
59) m/p-Xylene	9.529	91	497922m	20.404	ppbv	
60) o-Xylene	9.963	91	247784	10.157	ppbv	100
61) Styrene	9.872	104	101509	11.134	ppbv	100
62) Isopropylbenzene	10.539	105	354055	10.047	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.963	83	147295	9.305	ppbv	100
64) n-propylbenzene	10.989	120	84006	9.787	ppbv	100
65) tert-Butylbenzene	11.529	119	316532	10.065	ppbv	100
66) Benzyl Chloride	11.613	91	40331	11.096	ppbv	100
67) sec-Butylbenzene	11.769	105	442600	9.903	ppbv	100
69) p-Isopropyltoluene	11.924	119	374540	9.947	ppbv	100
70) n-Butylbenzene	12.280	91	382883	9.836	ppbv	100
71) 2-Chlorotoluene	10.898	91	278215	10.065	ppbv	100
72) 4-Ethyltoluene	11.124	105	299831	10.409	ppbv	100
73) 1,3,5-Trimethylbenzene	11.202	105	256952	10.143	ppbv	100
74) 1,2,4-Trimethylbenzene	11.536	105	286615	9.351	ppbv	100
75) 1,3-Dichlorobenzene	11.607	146	155598	9.118	ppbv	100
76) 1,4-Dichlorobenzene	11.671	146	157966	9.782	ppbv	100
77) 1,2-Dichlorobenzene	11.947	146	150432	9.007	ppbv	100
78) Hexachloro-1,3-Butadiene	13.879	225	134402	8.058	ppbv	100
79) Naphthalene	13.513	128	266036	10.352	ppbv	100
80) Naphthalene,2-methyl-	14.458	142	204042	10.641	ppbv	100
81) 1,2,4-Trichlorobenzene	13.439	180	135473	9.844	ppbv	100

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

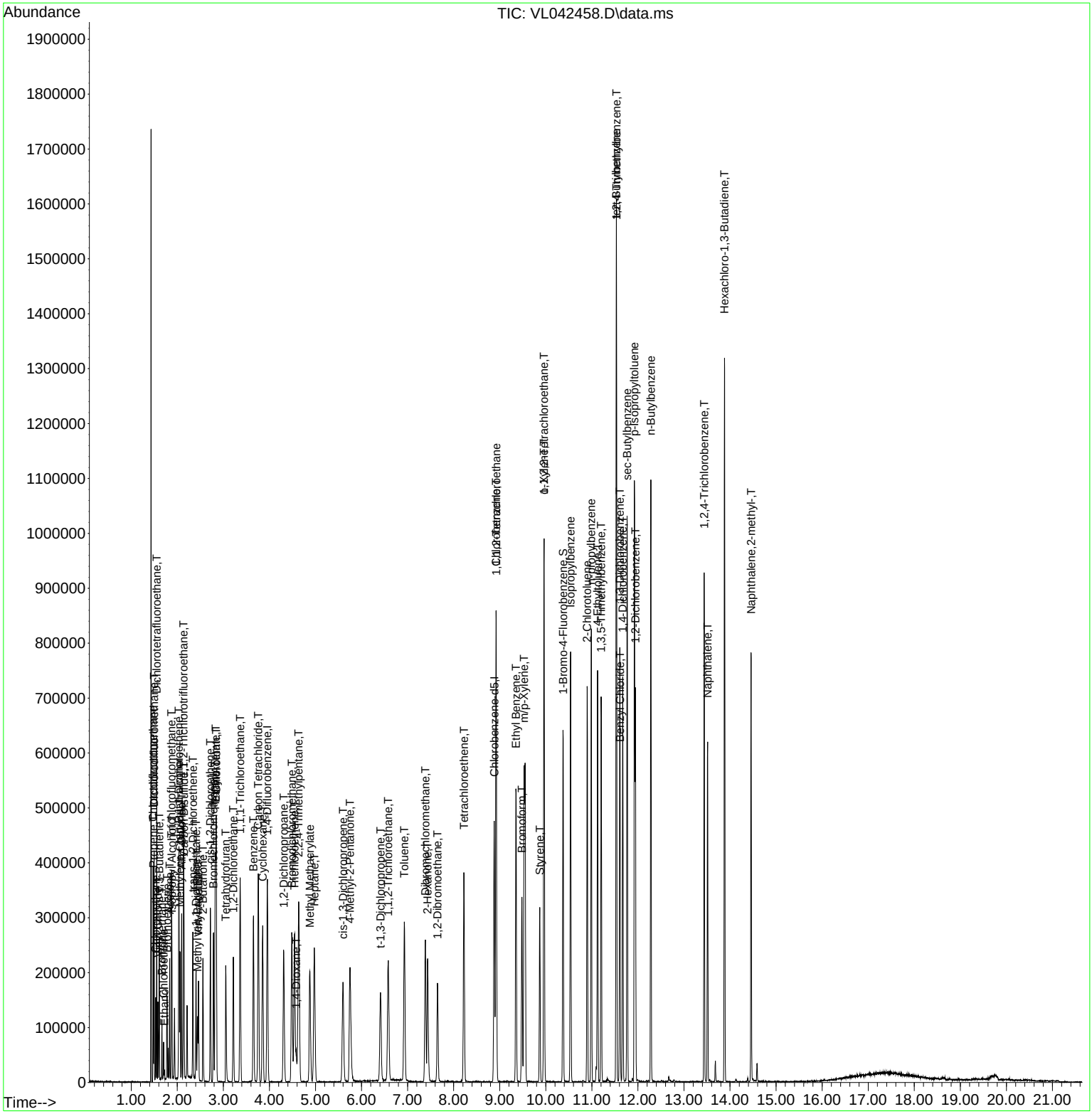
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050125\
Data File : VL042458.D
Acq On : 01 May 2025 09:03
Operator : SY/MD
Sample : VSTDICCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

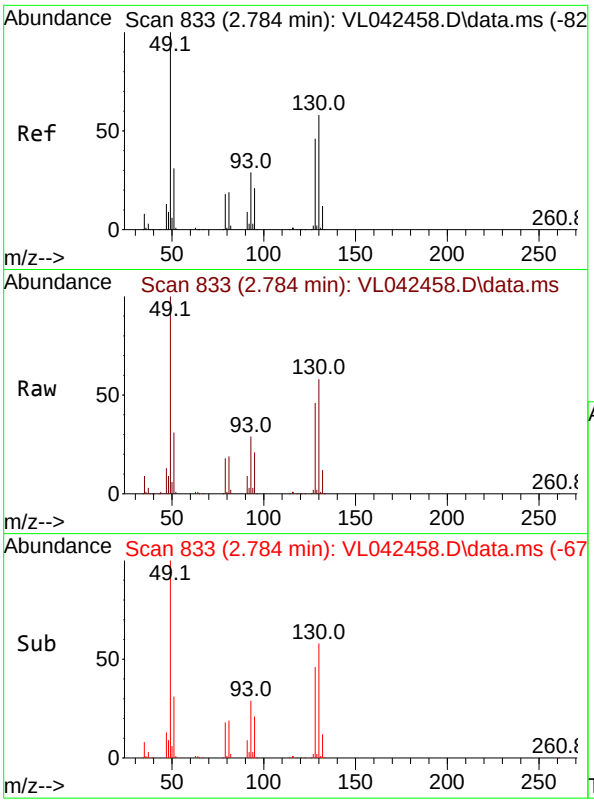
Quant Time: May 02 01:39:48 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri May 02 01:37:48 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

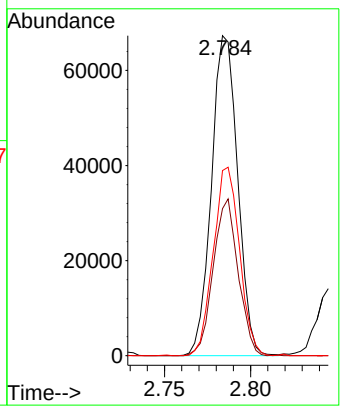




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL042458.D
Acq: 01 May 2025 09:03

Tgt Ion: 49 Resp: 7140

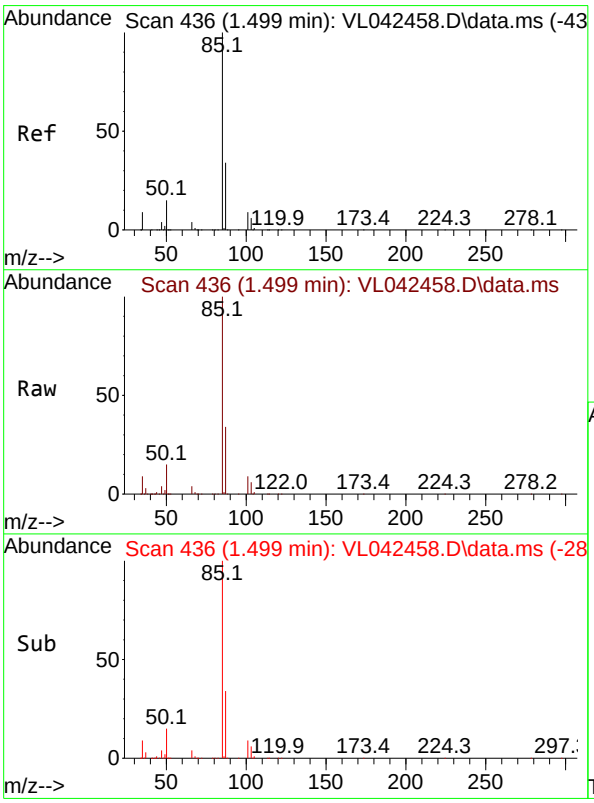
Ion	Ratio	Lower	Upper
49	100		
128	46.6	23.3	69.9
130	59.1	29.5	88.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

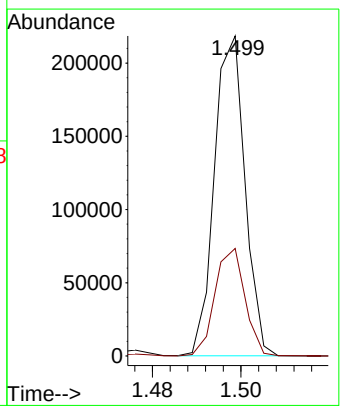
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

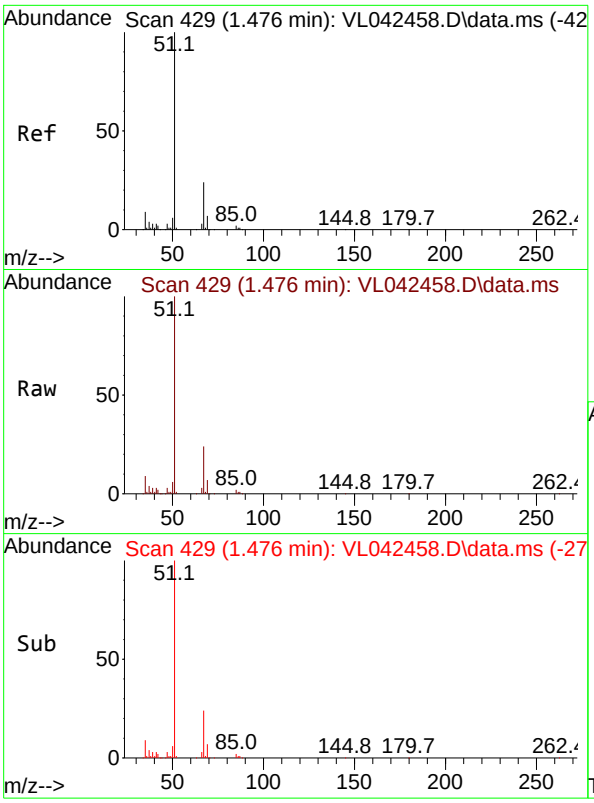


#2
Dichlorodifluoromethane
Concen: 8.882 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.000 min
Lab File: VL042458.D
Acq: 01 May 2025 09:03

Tgt Ion: 85 Resp: 104948

Ion	Ratio	Lower	Upper
85	100		
87	33.6	26.9	40.3

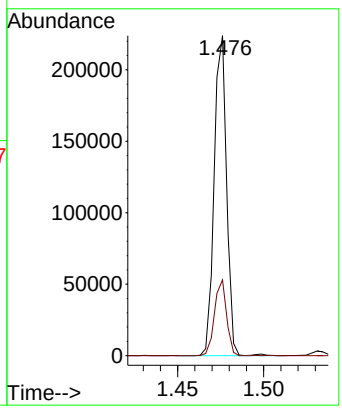




#3
Chlorodifluoromethane
Concen: 8.966 ppbv
RT: 1.476 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042458.D
Acq: 01 May 2025 09:03

Tgt Ion: 51 Resp: 11200

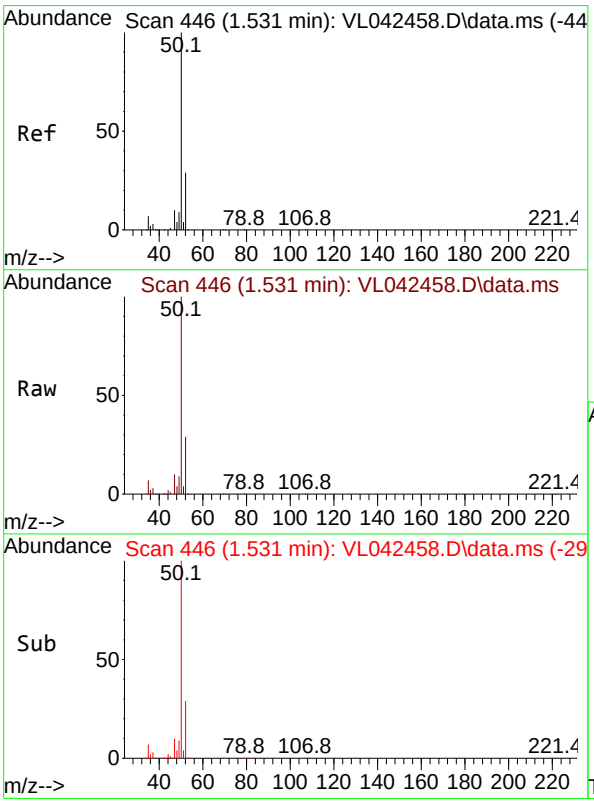
Ion	Ratio	Lower	Upper
51	100		
67	23.0	18.4	27.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

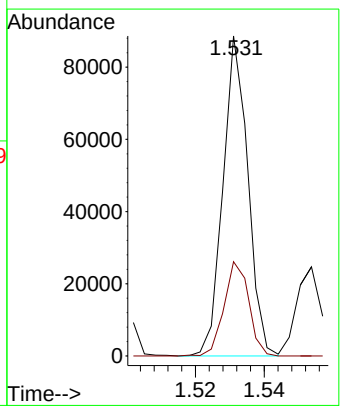
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

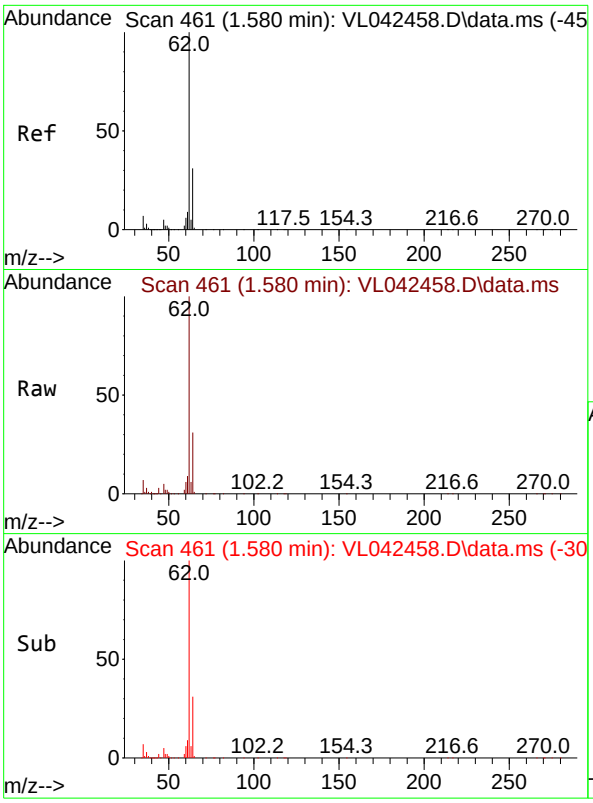


#4
Chloromethane
Concen: 9.028 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL042458.D
Acq: 01 May 2025 09:03

Tgt Ion: 50 Resp: 44585

Ion	Ratio	Lower	Upper
50	100		
52	29.4	23.5	35.3

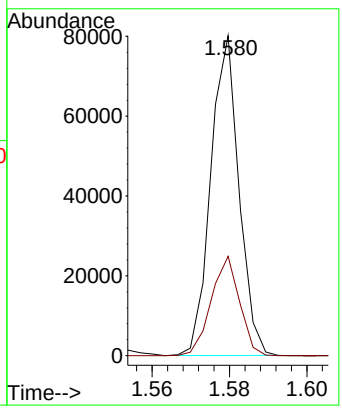




#5
Vinyl Chloride
Concen: 8.138 ppbv
RT: 1.580 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042458.D
Acq: 01 May 2025 09:03

Tgt Ion: 62 Resp: 4046

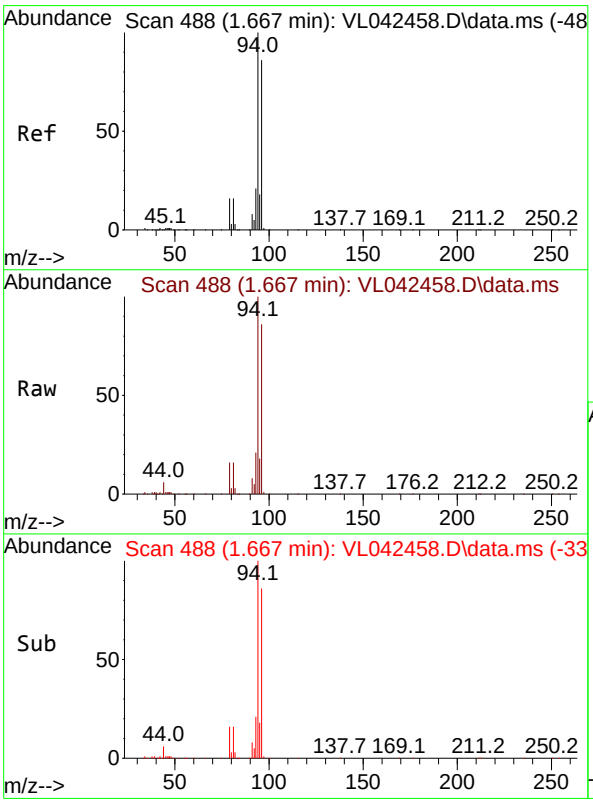
Ion	Ratio	Lower	Upper
62	100		
64	31.1	24.9	37.3



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

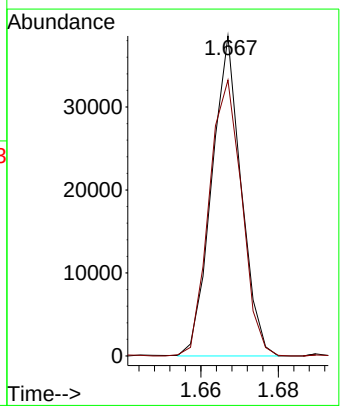
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

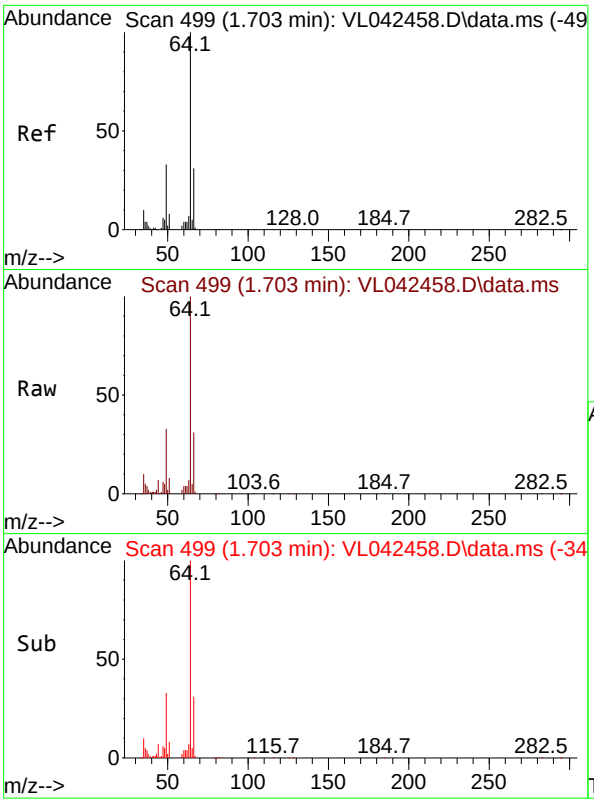


#6
Bromomethane
Concen: 8.680 ppbv
RT: 1.667 min Scan# 488
Delta R.T. 0.000 min
Lab File: VL042458.D
Acq: 01 May 2025 09:03

Tgt Ion: 94 Resp: 20392

Ion	Ratio	Lower	Upper
94	100		
96	86.0	68.8	103.2

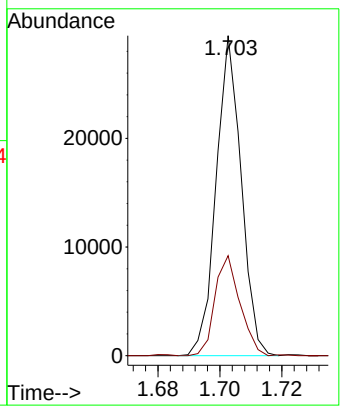




#7
Chloroethane
Concen: 9.002 ppbv
RT: 1.703 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042458.D
Acq: 01 May 2025 09:03

Tgt Ion: 64 Resp: 1652

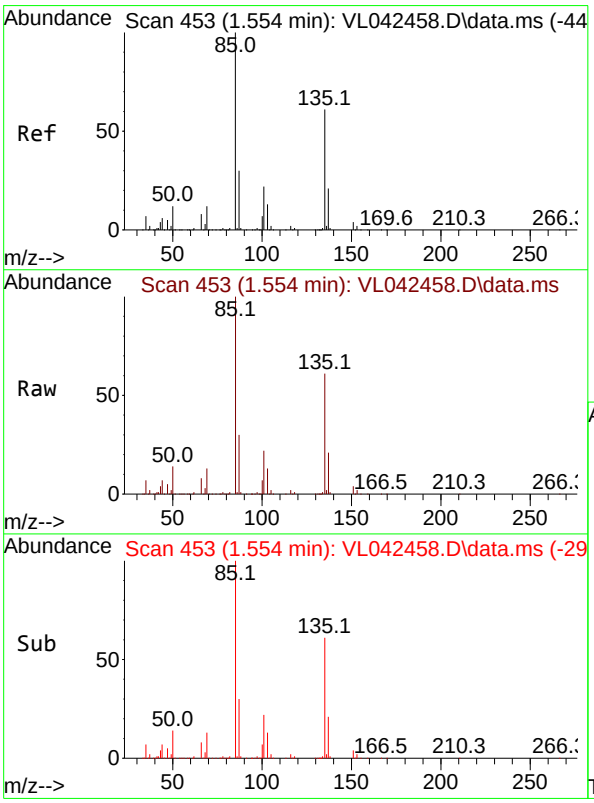
Ion	Ratio	Lower	Upper
64	100		
66	31.2	25.0	37.4



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

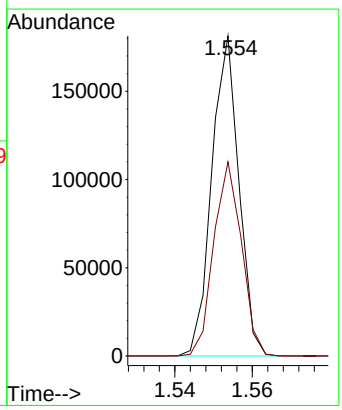
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

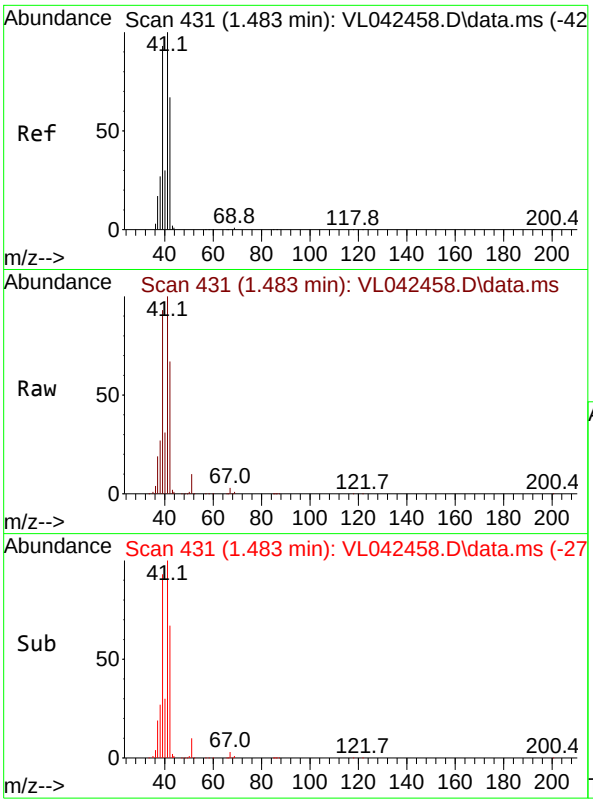


#8
Dichlorotetrafluoroethane
Concen: 9.051 ppbv
RT: 1.554 min Scan# 453
Delta R.T. 0.000 min
Lab File: VL042458.D
Acq: 01 May 2025 09:03

Tgt Ion: 85 Resp: 88162

Ion	Ratio	Lower	Upper
85	100		
135	62.3	49.8	74.8

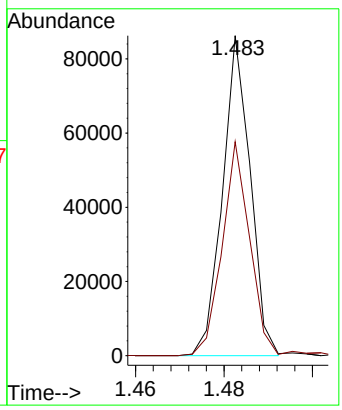




#9
Propene
Concen: 9.175 ppbv
RT: 1.483 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042458.D
Acq: 01 May 2025 09:03

Tgt Ion: 41 Resp: 3749

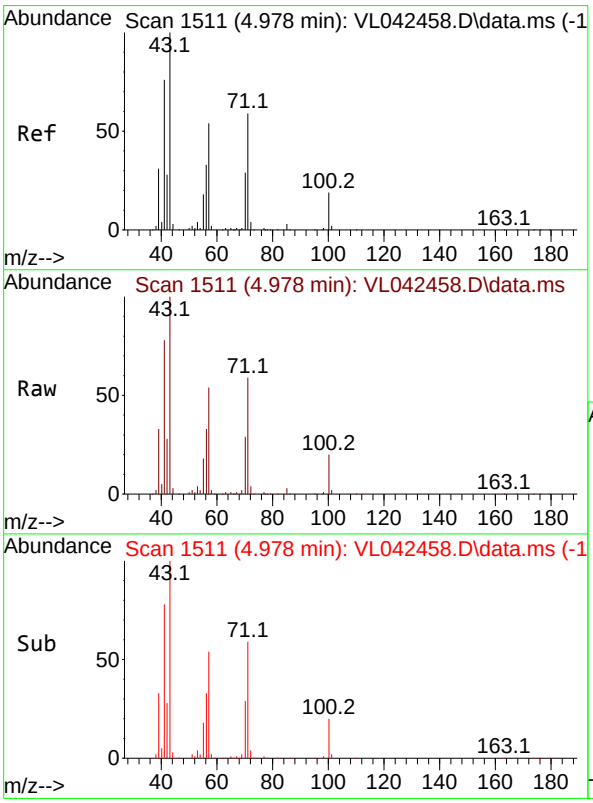
Ion	Ratio	Lower	Upper
41	100		
42	67.9	54.3	81.5



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

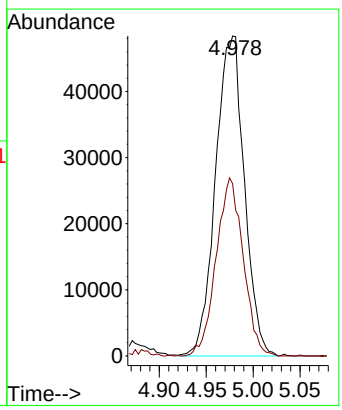
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

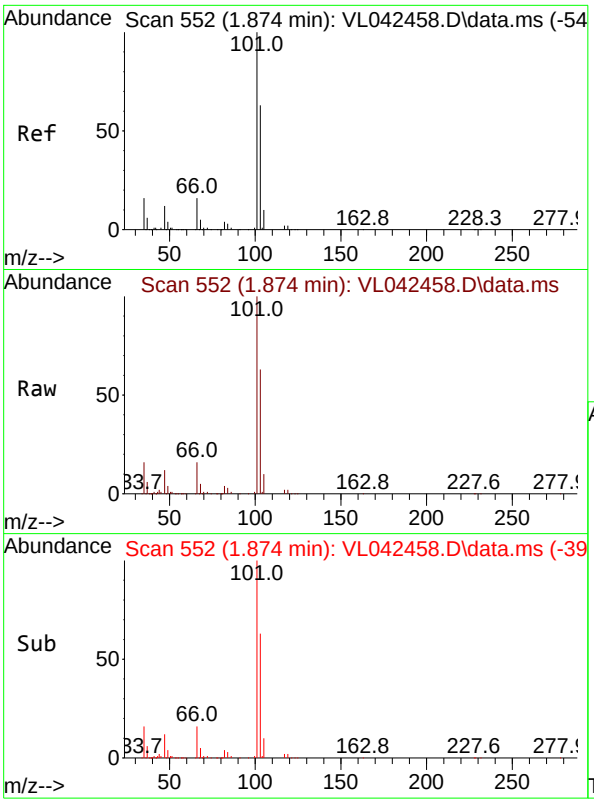


#10
Heptane
Concen: 9.733 ppbv
RT: 4.978 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VL042458.D
Acq: 01 May 2025 09:03

Tgt Ion: 43 Resp: 103167

Ion	Ratio	Lower	Upper
43	100		
57	52.3	41.8	62.8

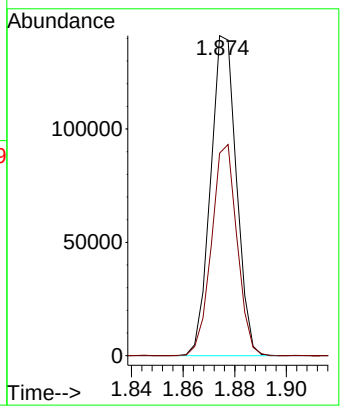




#11
Trichlorofluoromethane
Concen: 9.320 ppbv
RT: 1.874 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL042458.D
Acq: 01 May 2025 09:03

Tgt Ion:101 Resp: 9821

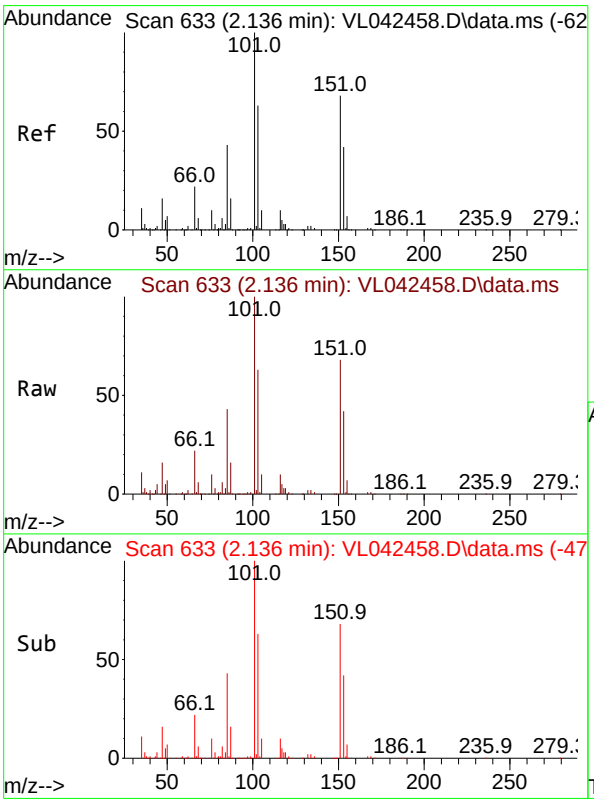
Ion	Ratio	Lower	Upper
101	100		
103	63.3	50.6	76.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

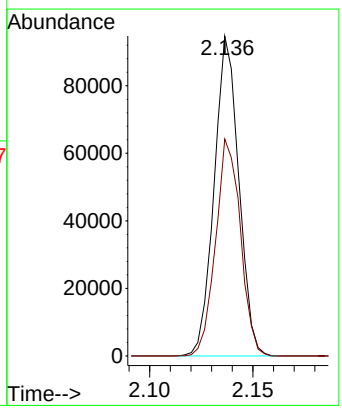
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

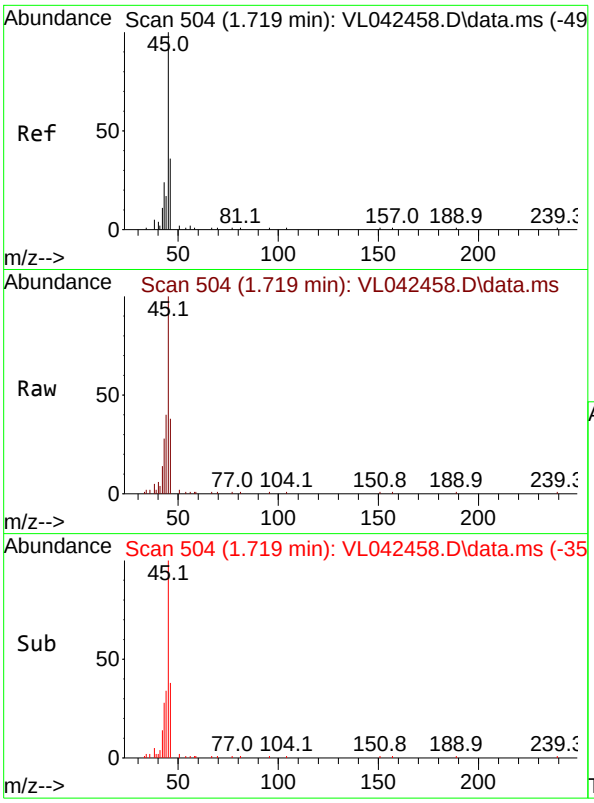


#12
1,1,2-Trichlorotrifluoroethane
Concen: 9.015 ppbv
RT: 2.136 min Scan# 633
Delta R.T. 0.000 min
Lab File: VL042458.D
Acq: 01 May 2025 09:03

Tgt Ion:101 Resp: 78482

Ion	Ratio	Lower	Upper
101	100		
151	68.3	54.6	82.0

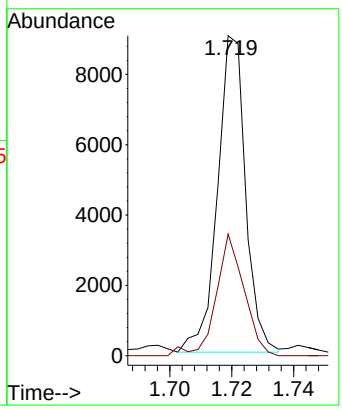




#13
Ethanol
Concen: 6.849 ppbv
RT: 1.719 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL042458.D
Acq: 01 May 2025 09:03

Tgt Ion: 45 Resp: 567

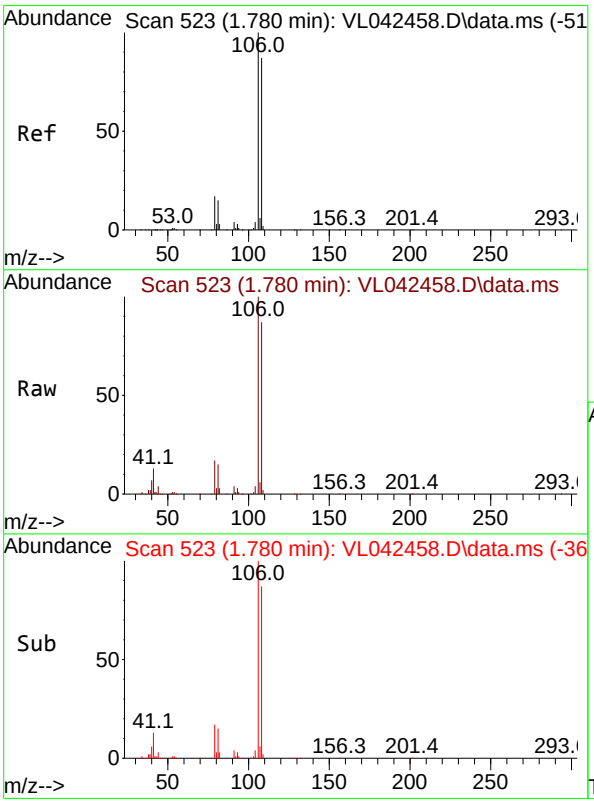
Ion	Ratio	Lower	Upper
45	100		
46	38.2	15.3	61.1



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

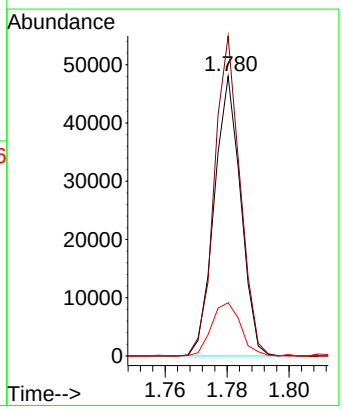
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

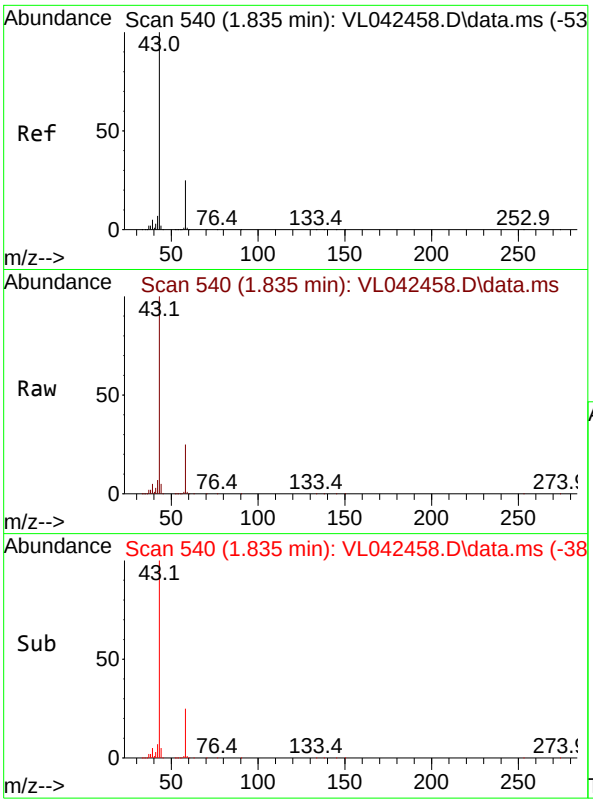


#14
Bromoethene
Concen: 8.849 ppbv
RT: 1.780 min Scan# 523
Delta R.T. 0.000 min
Lab File: VL042458.D
Acq: 01 May 2025 09:03

Tgt Ion:108 Resp: 28440

Ion	Ratio	Lower	Upper
108	100		
106	111.0	88.8	133.2
79	21.4	17.1	25.7

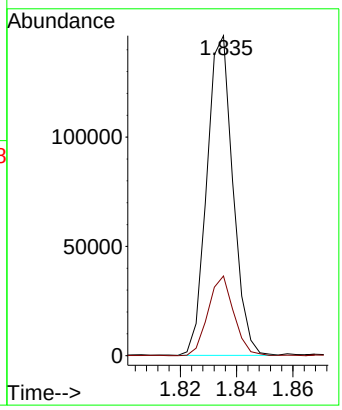




#15
Acetone
Concen: 7.219 ppbv
RT: 1.835 min Scan# 54
Delta R.T. 0.000 min
Lab File: VL042458.D
Acq: 01 May 2025 09:03

Tgt Ion: 43 Resp: 9409

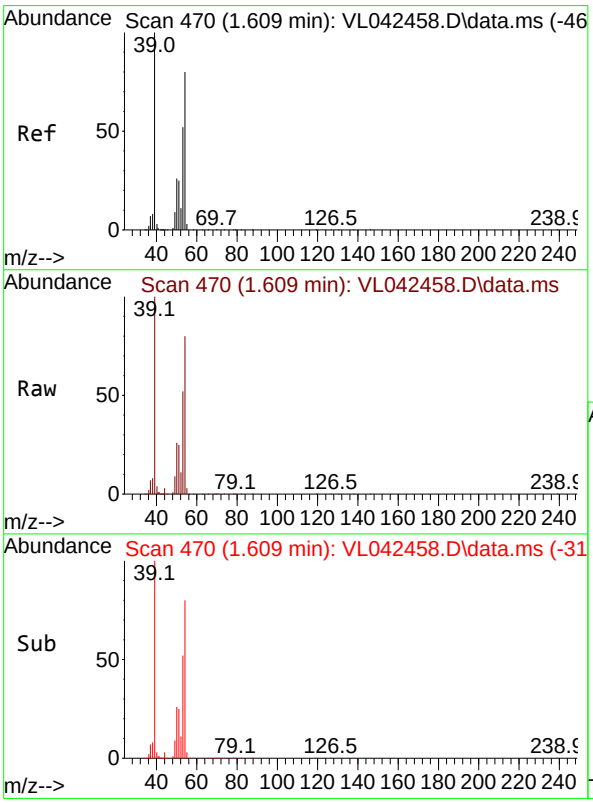
Ion	Ratio	Lower	Upper
43	100		
58	24.8	19.8	29.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

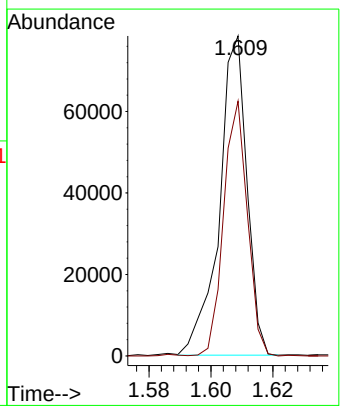
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

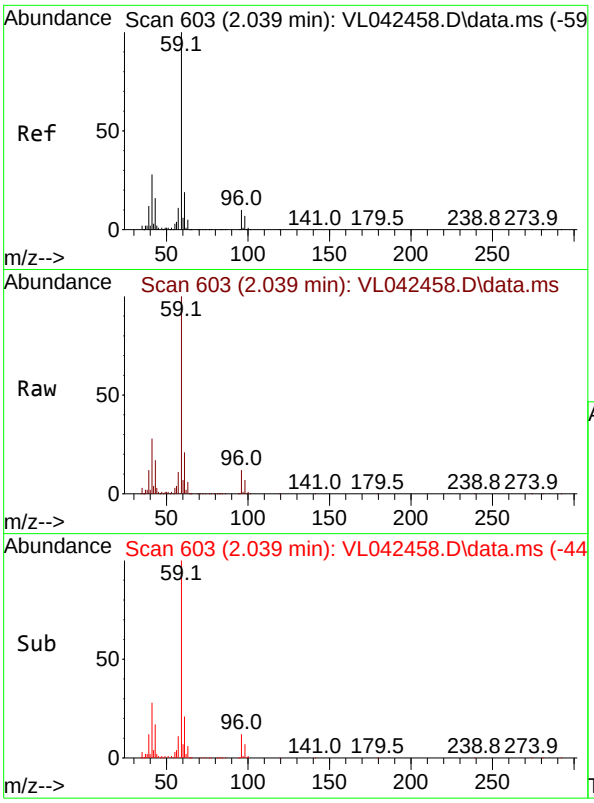


#16
1,3-Butadiene
Concen: 8.461 ppbv
RT: 1.609 min Scan# 470
Delta R.T. 0.000 min
Lab File: VL042458.D
Acq: 01 May 2025 09:03

Tgt Ion: 39 Resp: 48641

Ion	Ratio	Lower	Upper
39	100		
54	69.0	55.2	82.8

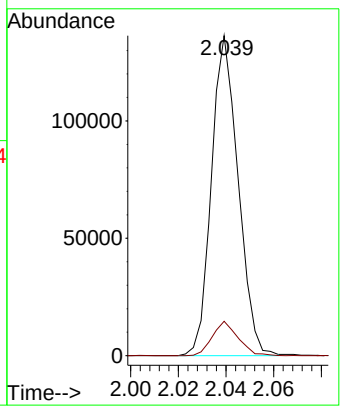




#17
tert-Butyl alcohol
Concen: 9.257 ppbv
RT: 2.039 min Scan# 6
Delta R.T. 0.000 min
Lab File: VL042458.D
Acq: 01 May 2025 09:03

Tgt Ion: 59 Resp: 10630

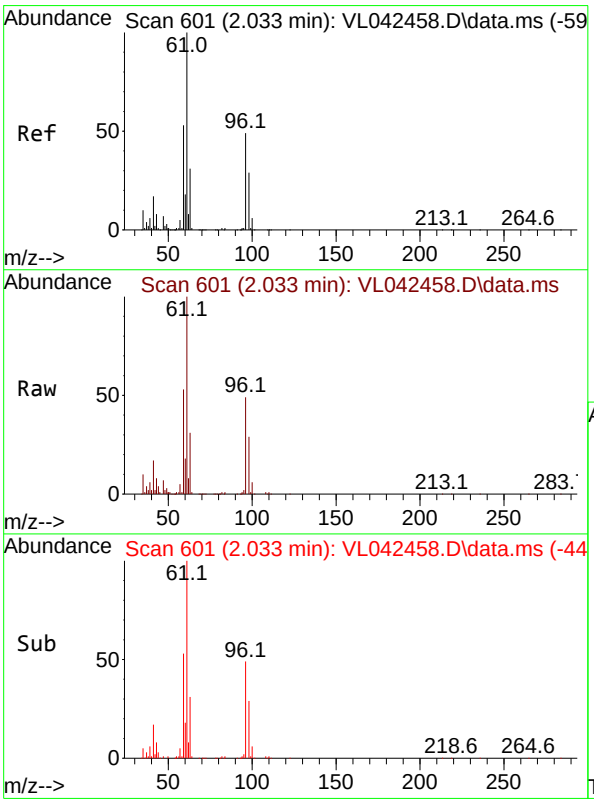
Ion	Ratio	Lower	Upper
59	100		
57	10.4	8.3	12.5



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

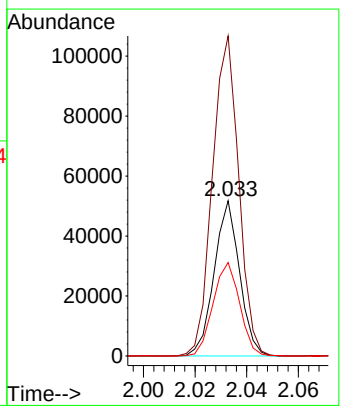
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

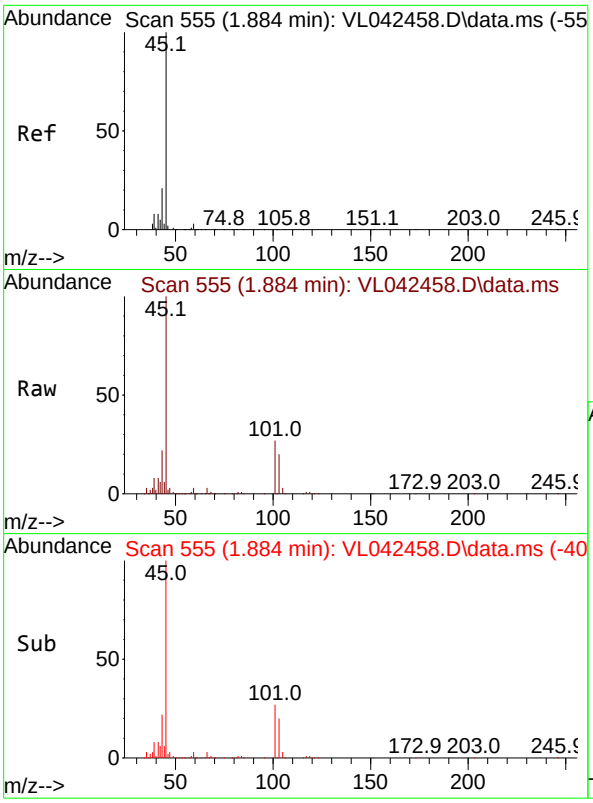


#18
1,1-Dichloroethene
Concen: 8.689 ppbv
RT: 2.033 min Scan# 601
Delta R.T. 0.000 min
Lab File: VL042458.D
Acq: 01 May 2025 09:03

Tgt Ion: 96 Resp: 35320

Ion	Ratio	Lower	Upper
96	100		
61	206.1	164.9	247.3
98	60.2	48.2	72.2

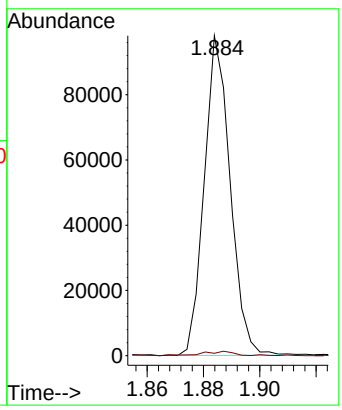




#19
Isopropyl Alcohol
Concen: 8.668 ppbv
RT: 1.884 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL042458.D
Acq: 01 May 2025 09:03

Tgt Ion: 45 Resp: 6253

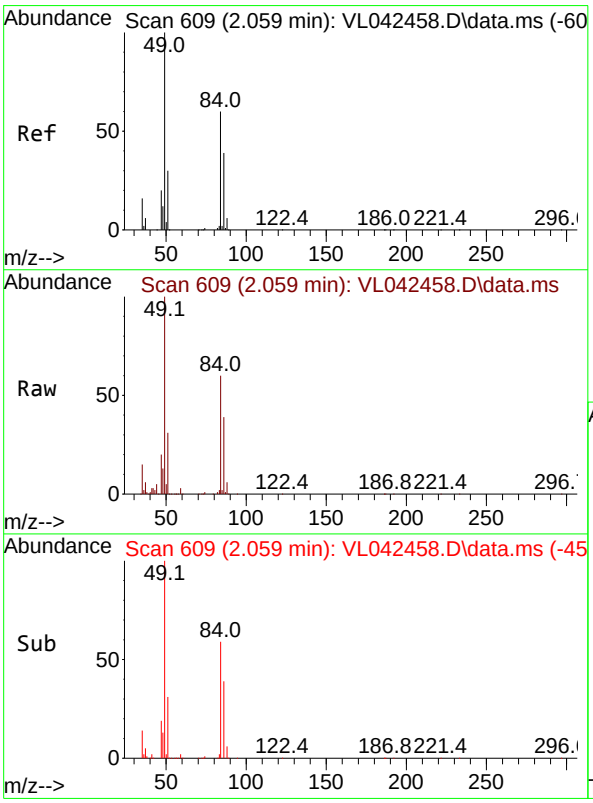
Ion	Ratio	Lower	Upper
45	100		
58	2.0	1.6	2.4



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

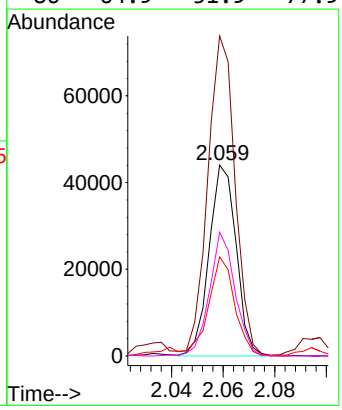
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

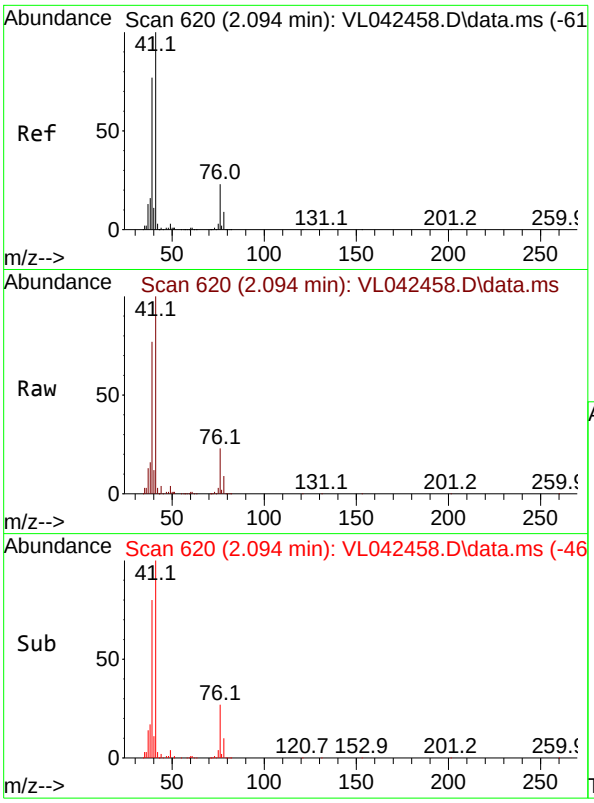


#20
Methylene Chloride
Concen: 8.176 ppbv
RT: 2.059 min Scan# 609
Delta R.T. 0.000 min
Lab File: VL042458.D
Acq: 01 May 2025 09:03

Tgt Ion: 84 Resp: 32039

Ion	Ratio	Lower	Upper
84	100		
49	167.4	133.9	200.9
51	51.3	41.0	61.6
86	64.9	51.9	77.9

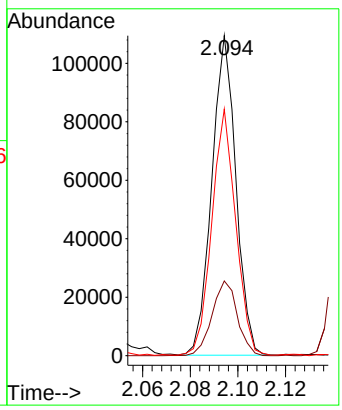




#21
Allyl Chloride
Concen: 9.169 ppbv
RT: 2.094 min Scan# 6
Delta R.T. 0.000 min
Lab File: VL042458.D
Acq: 01 May 2025 09:03

Tgt Ion: 41 Resp: 7685

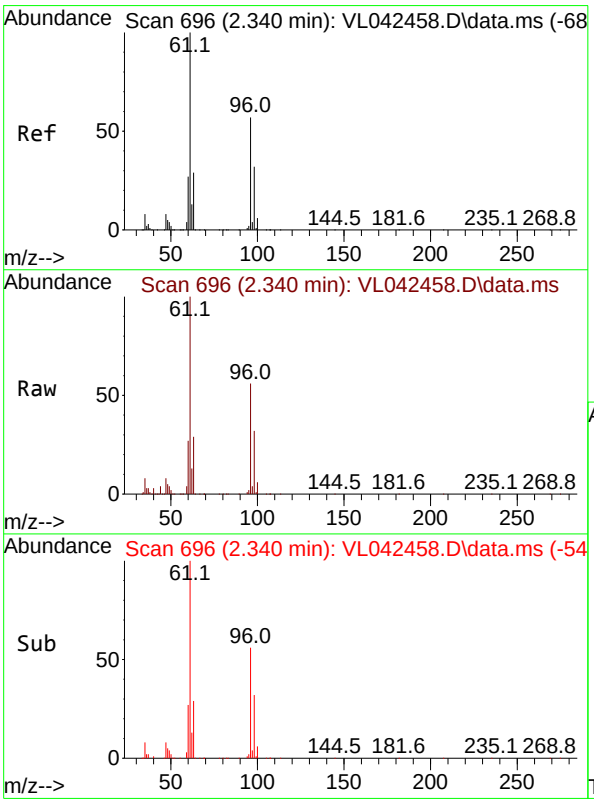
Ion	Ratio	Lower	Upper
41	100		
76	24.5	19.6	29.4
39	76.2	61.0	91.4



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

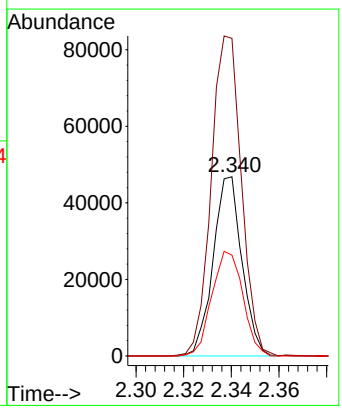
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

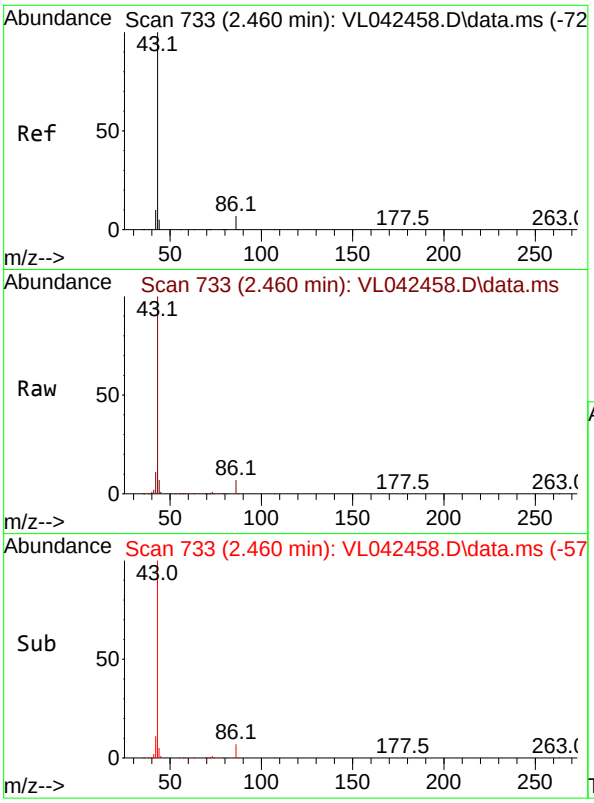


#22
trans-1,2-Dichloroethene
Concen: 8.305 ppbv
RT: 2.340 min Scan# 696
Delta R.T. 0.000 min
Lab File: VL042458.D
Acq: 01 May 2025 09:03

Tgt Ion: 96 Resp: 39427

Ion	Ratio	Lower	Upper
96	100		
61	177.2	141.8	212.6
98	56.3	45.0	67.6

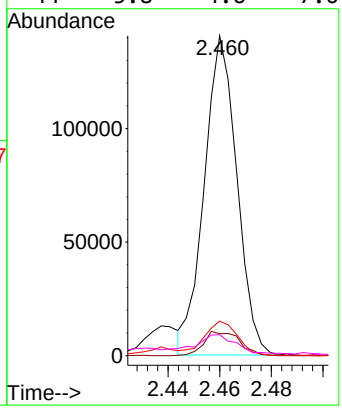




#23
Vinyl Acetate
Concen: 10.146 ppbv
RT: 2.460 min Scan# 7
Delta R.T. 0.000 min
Lab File: VL042458.D
Acq: 01 May 2025 09:03

Tgt Ion: 43 Resp: 12321

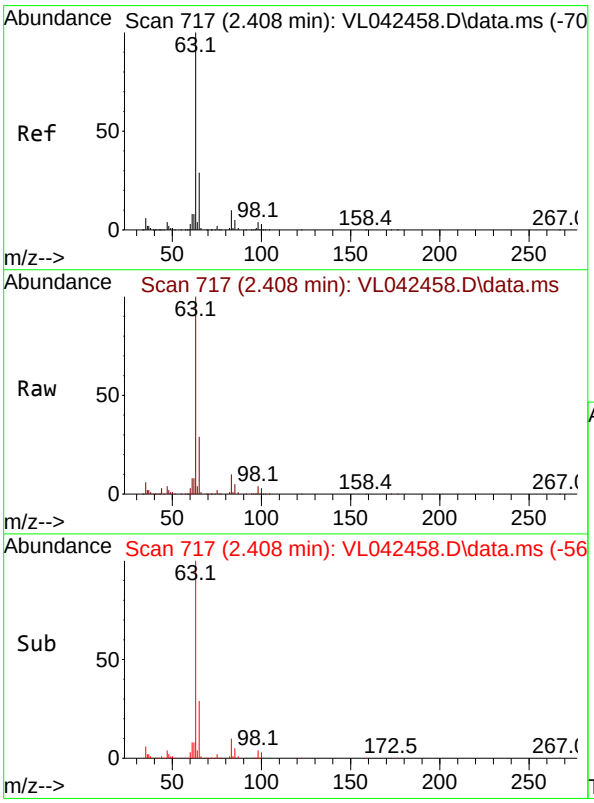
Ion	Ratio	Lower	Upper
43	100		
86	6.9	5.5	8.3
42	10.4	8.3	12.5
44	5.8	4.6	7.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

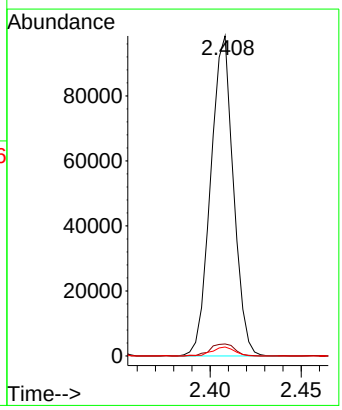
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

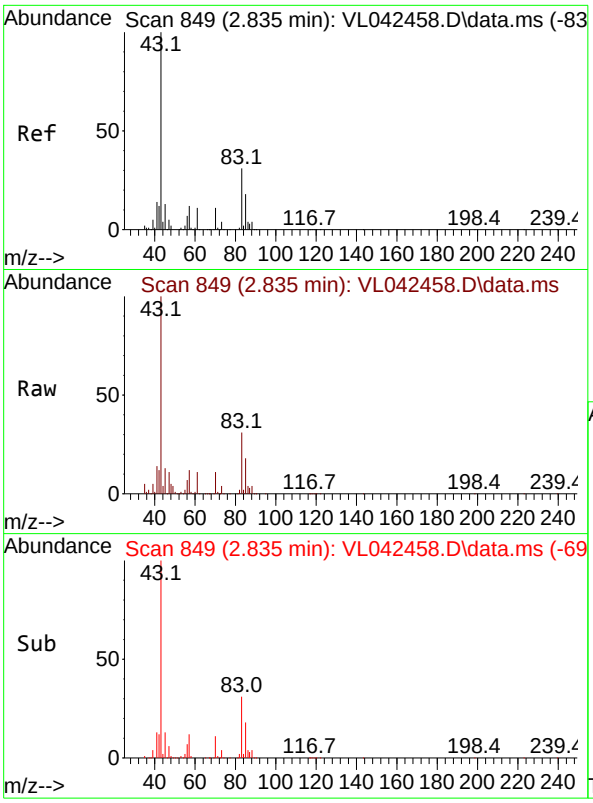


#24
1,1-Dichloroethane
Concen: 8.814 ppbv
RT: 2.408 min Scan# 717
Delta R.T. 0.000 min
Lab File: VL042458.D
Acq: 01 May 2025 09:03

Tgt Ion: 63 Resp: 85367

Ion	Ratio	Lower	Upper
63	100		
98	3.7	1.8	5.5
100	2.8	1.4	4.2

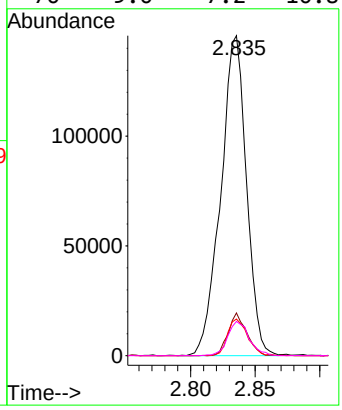




#25
Ethyl Acetate
Concen: 9.689 ppbv
RT: 2.835 min Scan# 84
Delta R.T. 0.000 min
Lab File: VL042458.D
Acq: 01 May 2025 09:03

Tgt Ion: 43 Resp: 20221

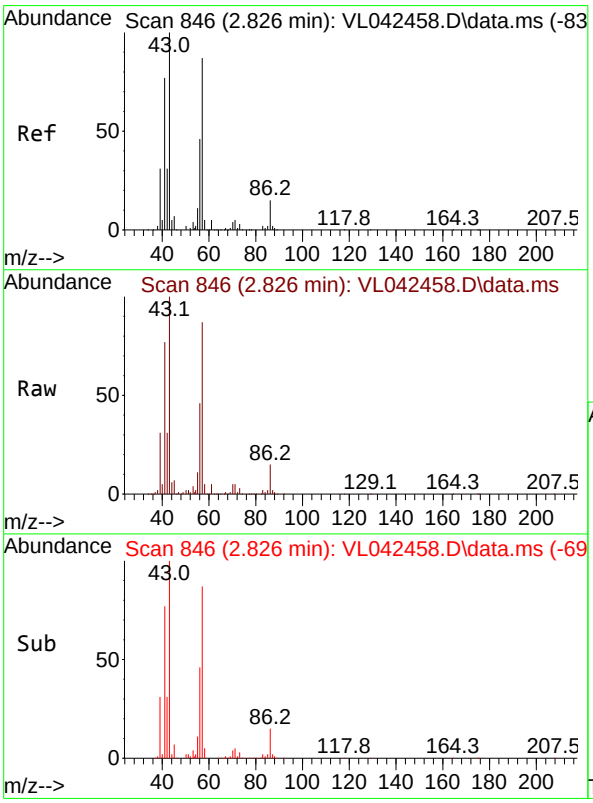
Ion	Ratio	Lower	Upper
43	100		
45	9.7	7.8	11.6
61	9.0	7.2	10.8
70	9.0	7.2	10.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

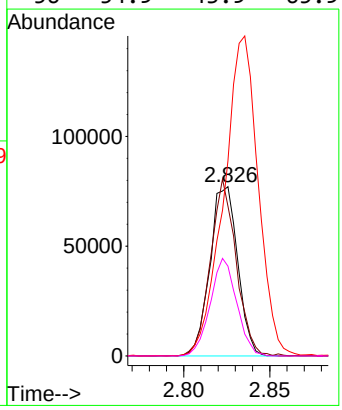
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

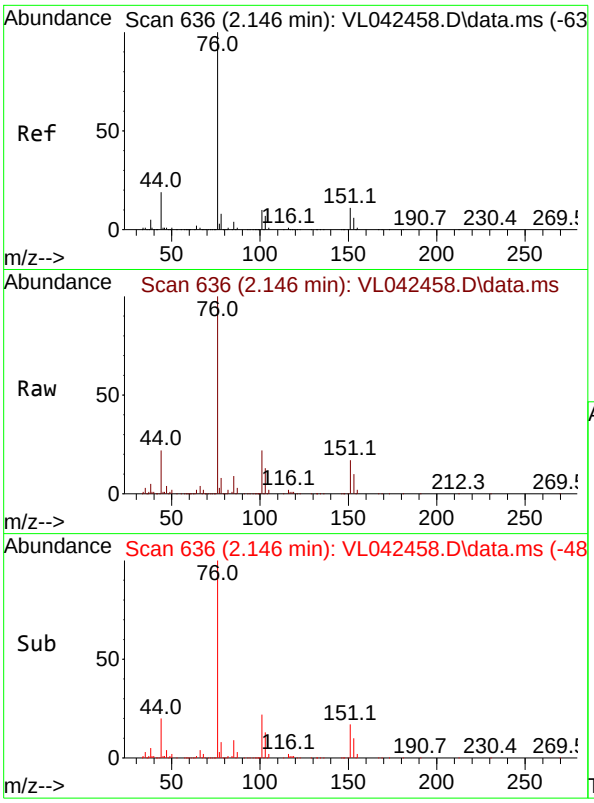


#26
Hexane
Concen: 9.543 ppbv
RT: 2.826 min Scan# 846
Delta R.T. 0.000 min
Lab File: VL042458.D
Acq: 01 May 2025 09:03

Tgt Ion: 57 Resp: 86764

Ion	Ratio	Lower	Upper
57	100		
41	97.3	77.8	116.8
43	233.8	187.0	280.6
56	54.9	43.9	65.9

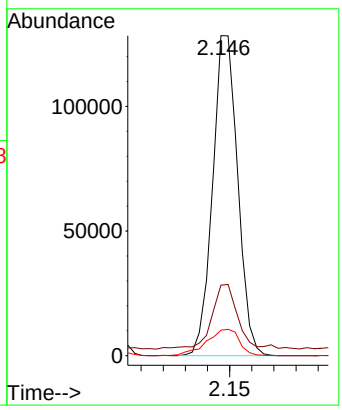




#27
Carbon Disulfide
Concen: 9.542 ppbv
RT: 2.146 min Scan# 6
Delta R.T. 0.000 min
Lab File: VL042458.D
Acq: 01 May 2025 09:03

Tgt Ion: 76 Resp: 10124

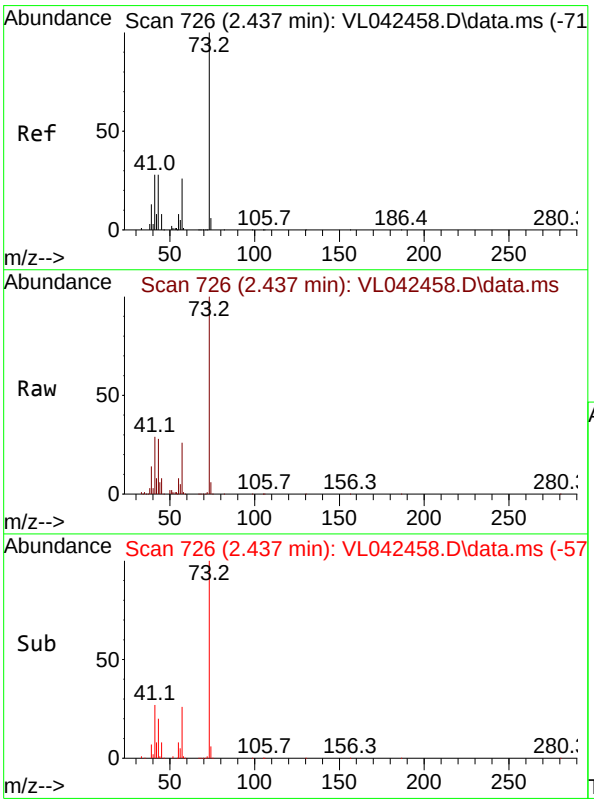
Ion	Ratio	Lower	Upper
76	100		
44	20.8	21.0	31.6
78	10.8	8.6	13.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

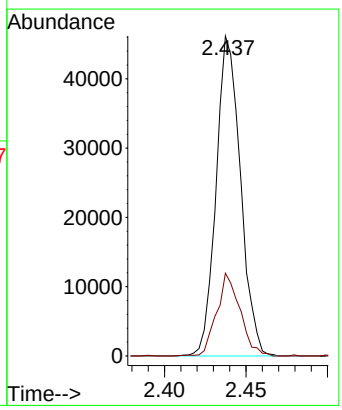
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

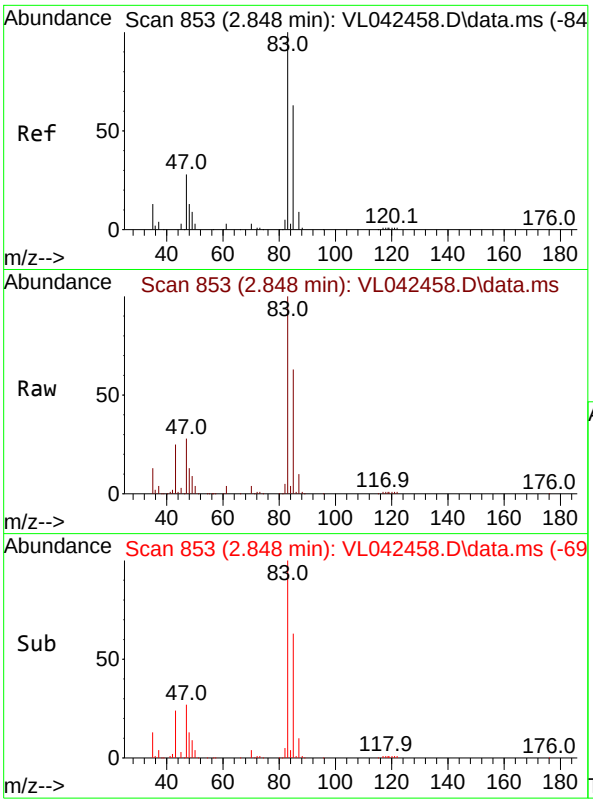


#28
Methyl tert-Butyl Ether
Concen: 8.777 ppbv
RT: 2.437 min Scan# 726
Delta R.T. 0.000 min
Lab File: VL042458.D
Acq: 01 May 2025 09:03

Tgt Ion: 73 Resp: 47941

Ion	Ratio	Lower	Upper
73	100		
57	25.0	19.9	29.9

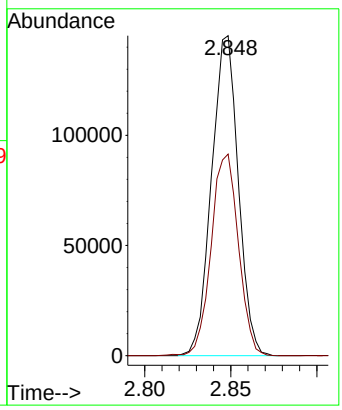




#29
Chloroform
Concen: 9.213 ppbv
RT: 2.848 min Scan# 8
Delta R.T. 0.000 min
Lab File: VL042458.D
Acq: 01 May 2025 09:03

Tgt Ion: 83 Resp: 15697

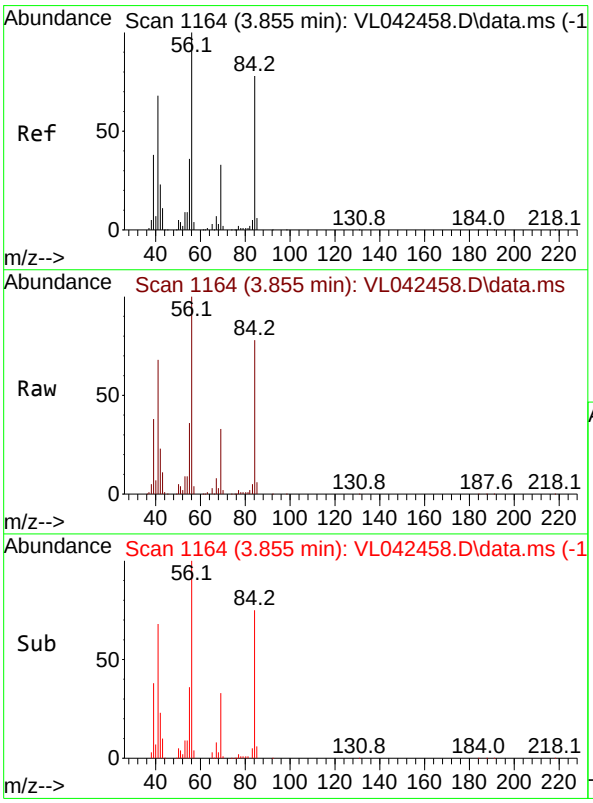
Ion	Ratio	Lower	Upper
83	100		
85	63.0	50.4	75.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

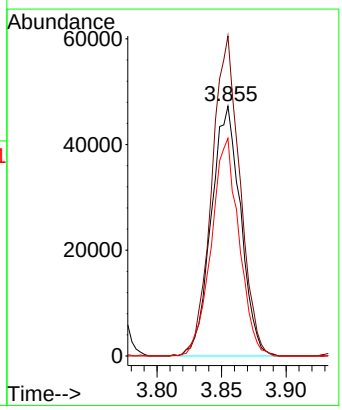
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

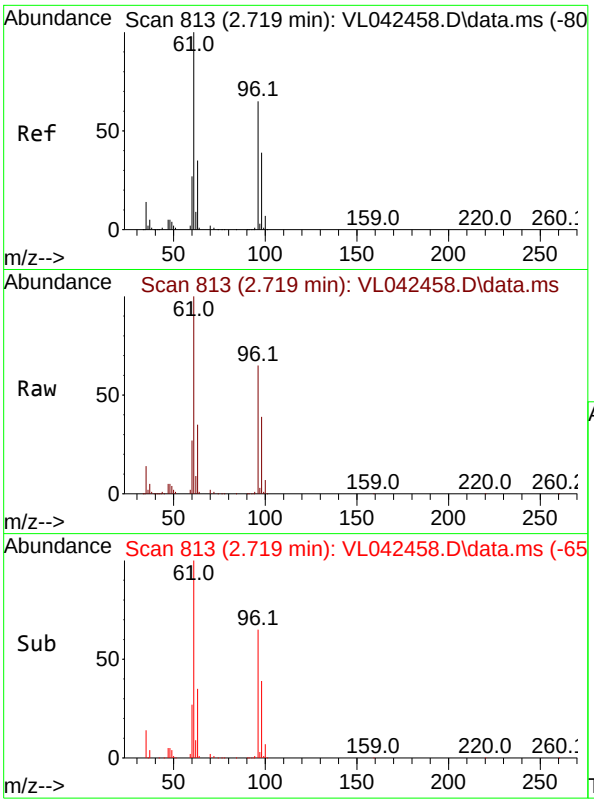


#30
Cyclohexane
Concen: 9.815 ppbv
RT: 3.855 min Scan# 1164
Delta R.T. 0.000 min
Lab File: VL042458.D
Acq: 01 May 2025 09:03

Tgt Ion: 84 Resp: 74614

Ion	Ratio	Lower	Upper
84	100		
56	122.6	98.1	147.1
41	82.3	65.8	98.8

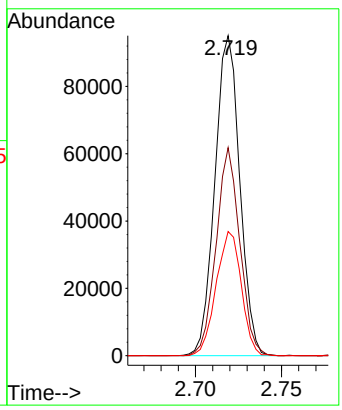




#31
cis-1,2-Dichloroethene
Concen: 9.031 ppbv
RT: 2.719 min Scan# 8
Delta R.T. 0.000 min
Lab File: VL042458.D
Acq: 01 May 2025 09:03

Tgt Ion: 61 Resp: 9579

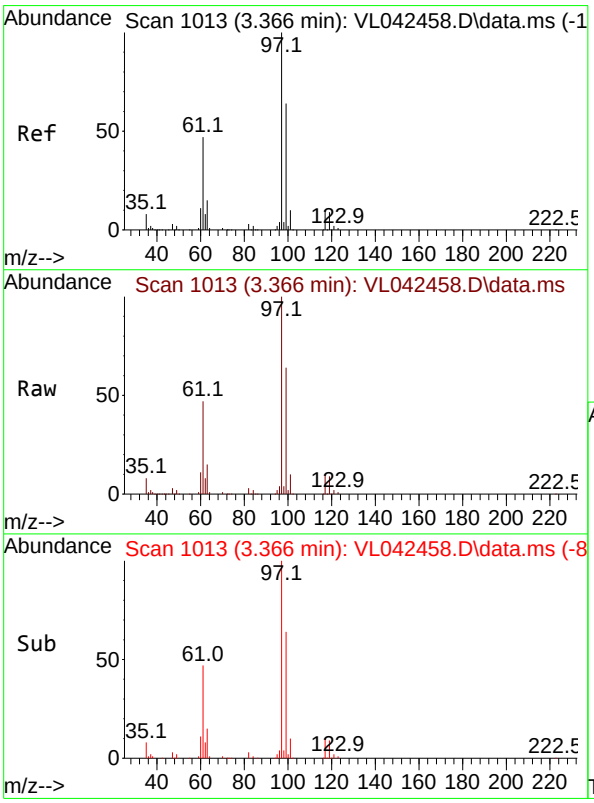
Ion	Ratio	Lower	Upper
61	100		
96	65.0	52.0	78.0
98	38.8	31.0	46.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

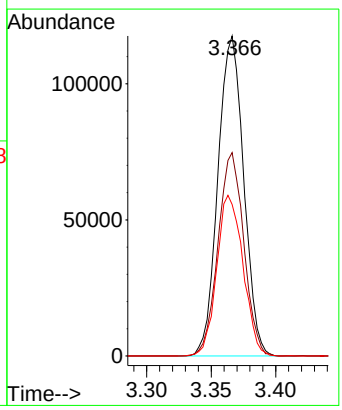
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

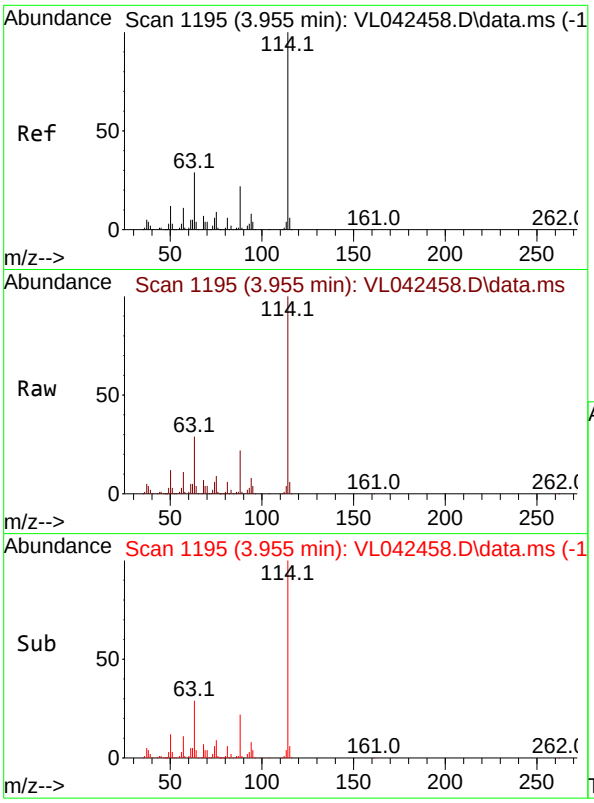


#32
1,1,1-Trichloroethane
Concen: 8.836 ppbv
RT: 3.366 min Scan# 1013
Delta R.T. 0.000 min
Lab File: VL042458.D
Acq: 01 May 2025 09:03

Tgt Ion: 97 Resp: 163334

Ion	Ratio	Lower	Upper
97	100		
99	63.4	50.7	76.1
61	51.1	40.9	61.3

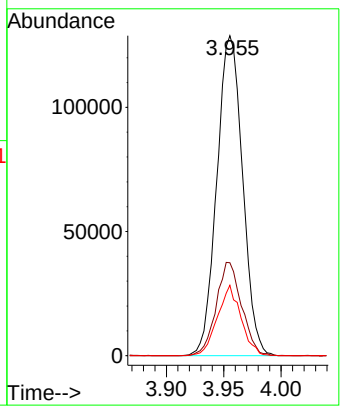




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.955 min Scan# 1
Delta R.T. 0.000 min
Lab File: VL042458.D
Acq: 01 May 2025 09:03

Tgt Ion:114 Resp: 20129

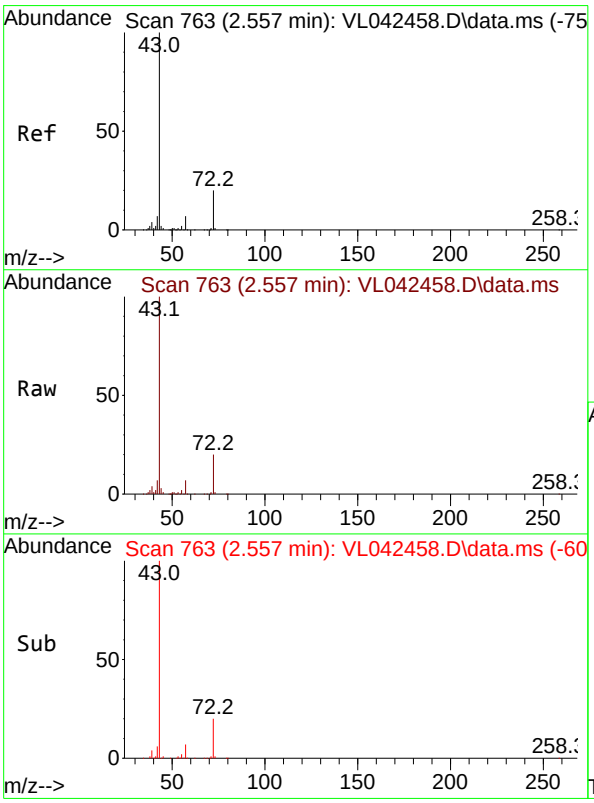
Ion	Ratio	Lower	Upper
114	100		
63	28.9	23.1	34.7
88	20.1	16.1	24.1



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

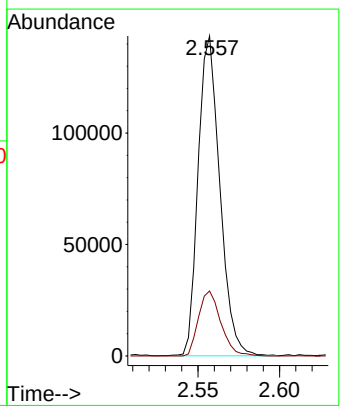
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

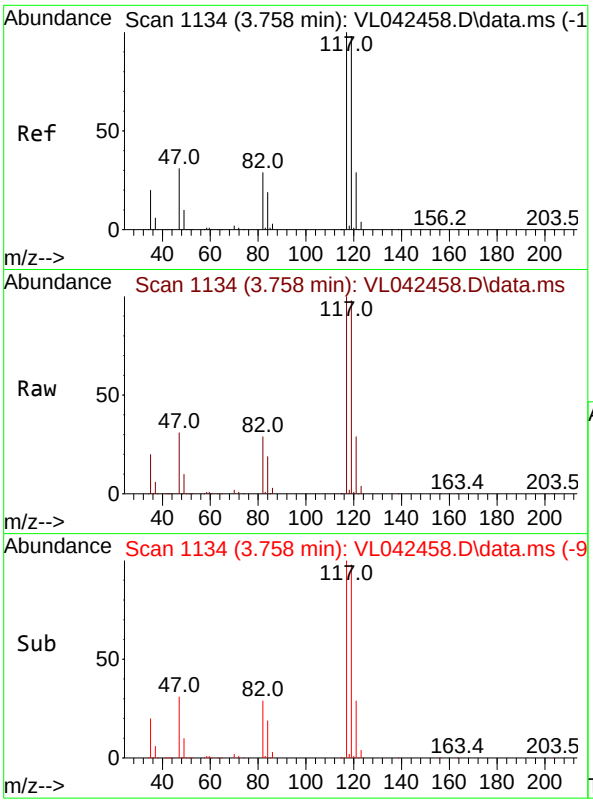


#34
2-Butanone
Concen: 9.113 ppbv
RT: 2.557 min Scan# 763
Delta R.T. 0.000 min
Lab File: VL042458.D
Acq: 01 May 2025 09:03

Tgt Ion: 43 Resp: 132685

Ion	Ratio	Lower	Upper
43	100		
72	20.9	16.7	25.1

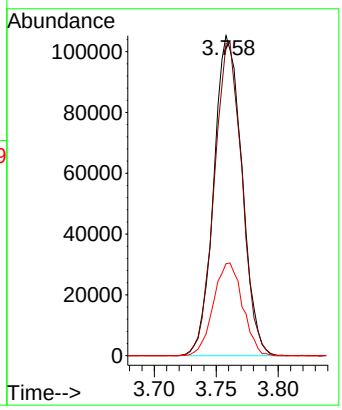




#35
Carbon Tetrachloride
Concen: 9.511 ppbv
RT: 3.758 min Scan# 1
Delta R.T. 0.000 min
Lab File: VL042458.D
Acq: 01 May 2025 09:03

Tgt Ion:117 Resp: 16649

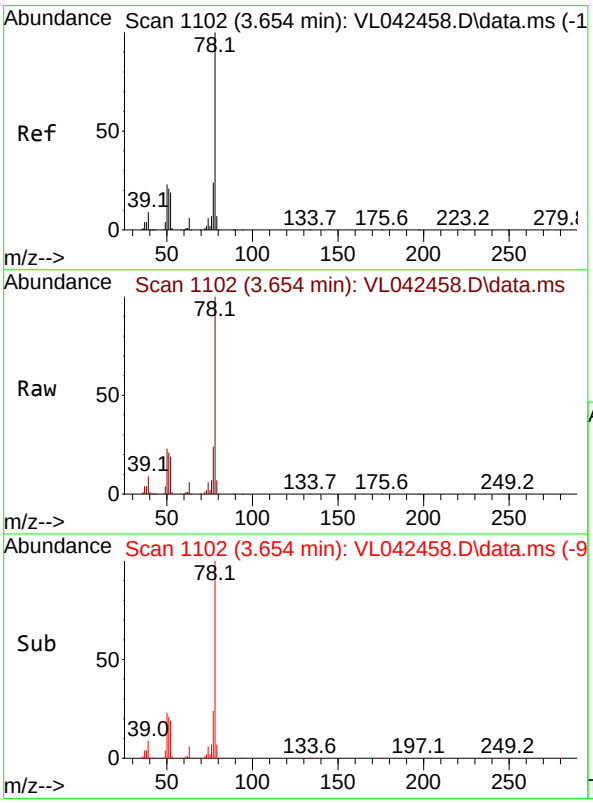
Ion	Ratio	Lower	Upper
117	100		
119	97.6	78.1	117.1
121	28.8	23.0	34.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

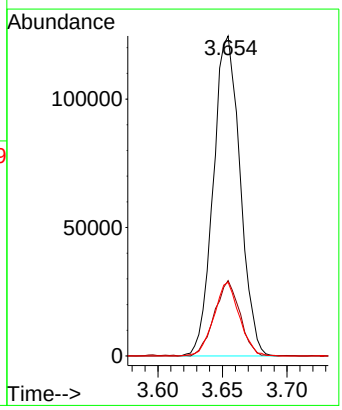
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

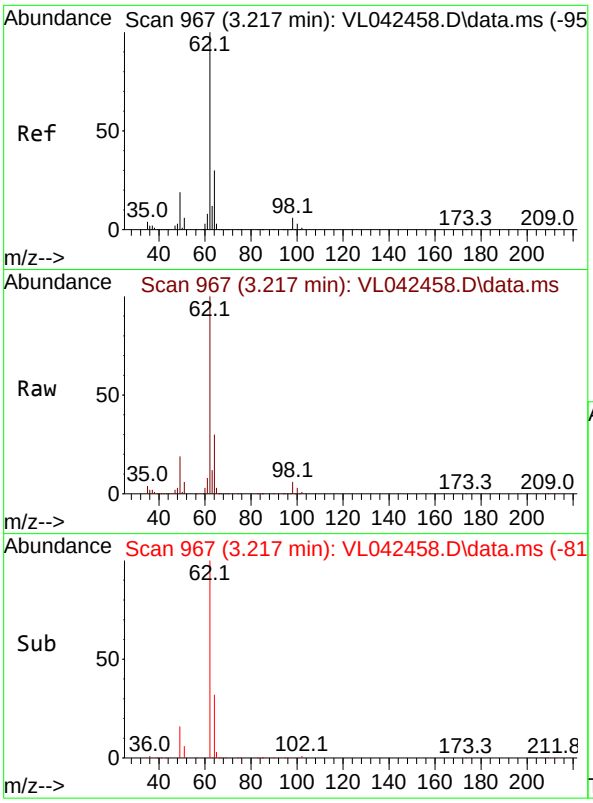


#36
Benzene
Concen: 9.451 ppbv
RT: 3.654 min Scan# 1102
Delta R.T. 0.000 min
Lab File: VL042458.D
Acq: 01 May 2025 09:03

Tgt Ion: 78 Resp: 179532

Ion	Ratio	Lower	Upper
78	100		
77	23.6	18.9	28.3
50	23.0	18.4	27.6

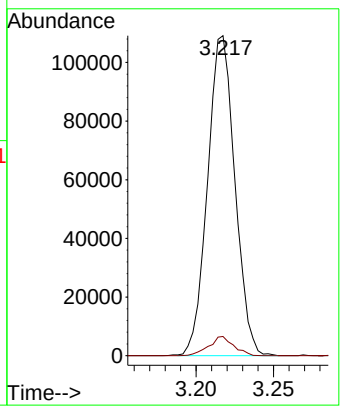




#37
1,2-Dichloroethane
Concen: 9.150 ppbv
RT: 3.217 min Scan# 9
Delta R.T. 0.000 min
Lab File: VL042458.D
Acq: 01 May 2025 09:03

Tgt Ion: 62 Resp: 13396

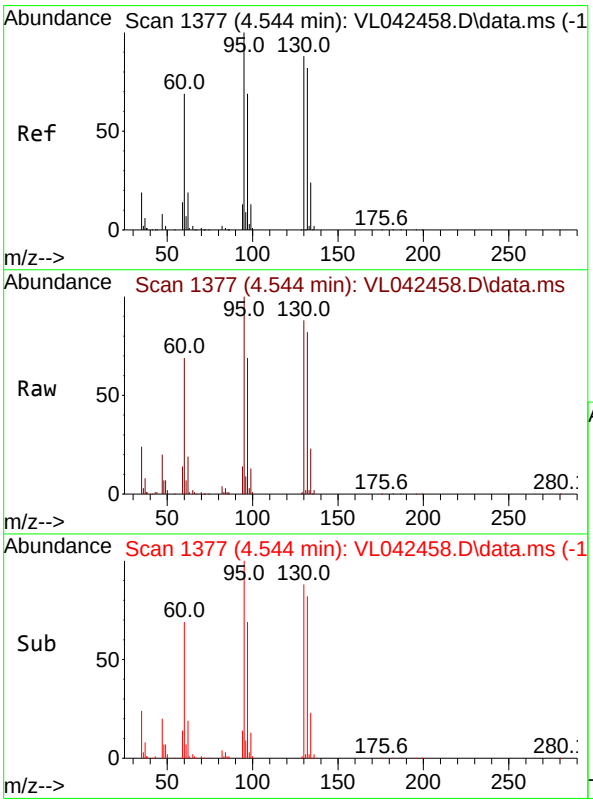
Ion	Ratio	Lower	Upper
62	100		
98	5.4	4.3	6.5



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

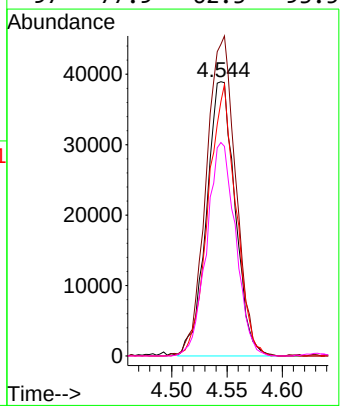
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

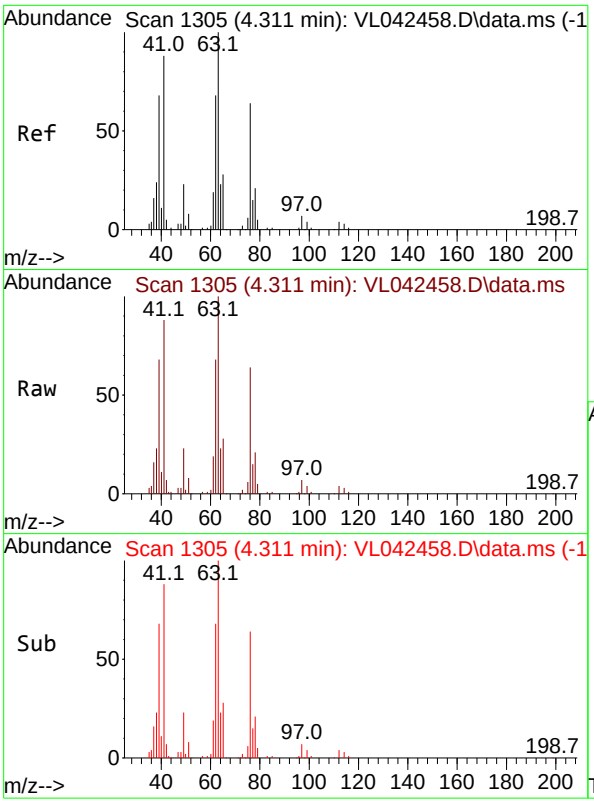


#38
Trichloroethene
Concen: 9.642 ppbv
RT: 4.544 min Scan# 1377
Delta R.T. 0.000 min
Lab File: VL042458.D
Acq: 01 May 2025 09:03

Tgt Ion:130 Resp: 69846

Ion	Ratio	Lower	Upper
130	100		
95	113.7	91.0	136.4
132	92.8	74.2	111.4
97	77.9	62.3	93.5

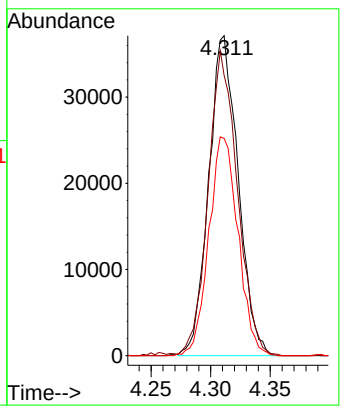




#39
1,2-Dichloropropane
Concen: 8.979 ppbv
RT: 4.311 min Scan# 1
Delta R.T. 0.000 min
Lab File: VL042458.D
Acq: 01 May 2025 09:03

Tgt Ion: 63 Resp: 6389

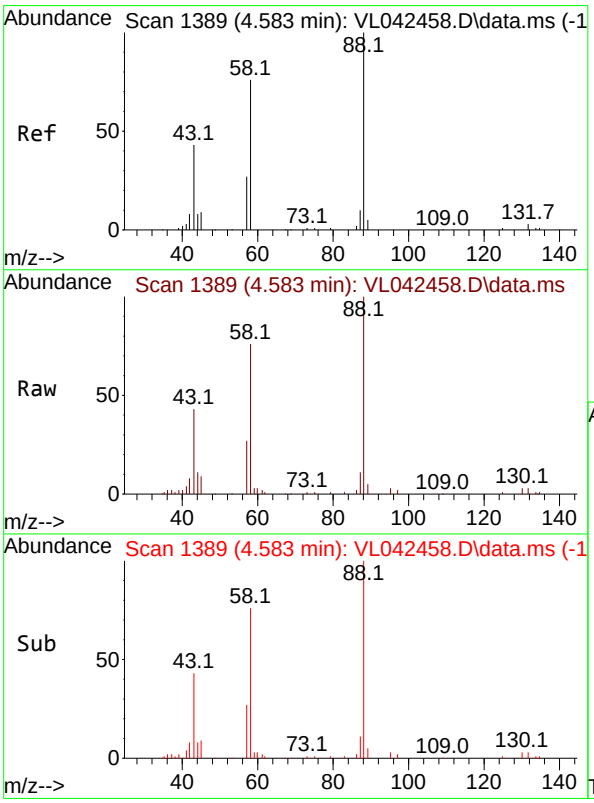
Ion	Ratio	Lower	Upper
63	100		
41	87.2	69.8	104.6
62	67.9	54.3	81.5



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

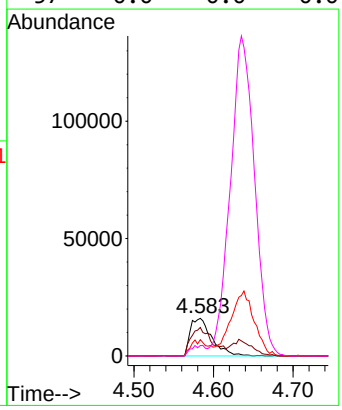
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

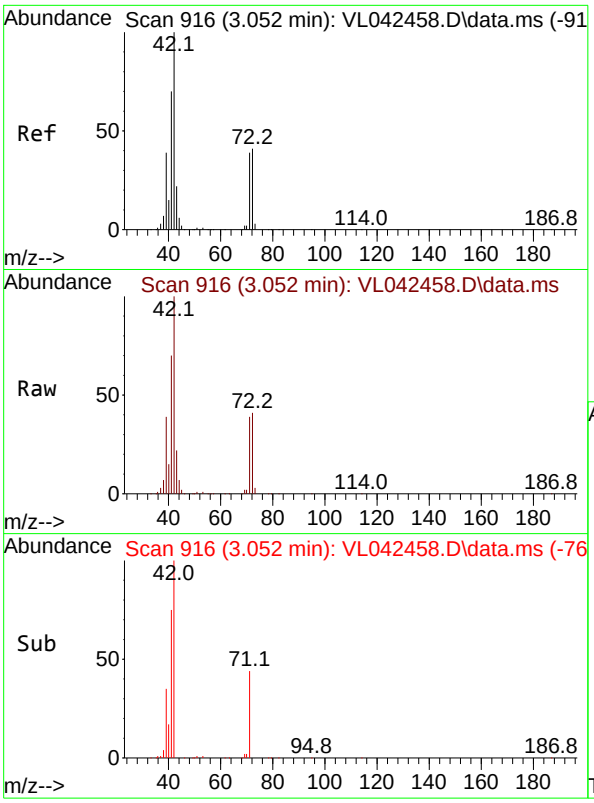


#40
1,4-Dioxane
Concen: 9.161 ppbv m
RT: 4.583 min Scan# 1389
Delta R.T. 0.000 min
Lab File: VL042458.D
Acq: 01 May 2025 09:03

Tgt Ion: 88 Resp: 30303

Ion	Ratio	Lower	Upper
88	100		
58	76.2	0.0	0.0#
43	0.0	0.0	0.0
57	0.0	0.0	0.0

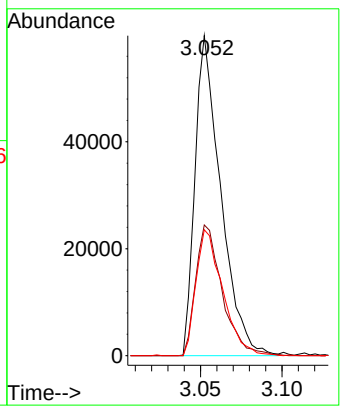




#41
Tetrahydrofuran
Concen: 9.516 ppbv
RT: 3.052 min Scan# 91
Delta R.T. 0.000 min
Lab File: VL042458.D
Acq: 01 May 2025 09:03

Tgt Ion: 42 Resp: 6571

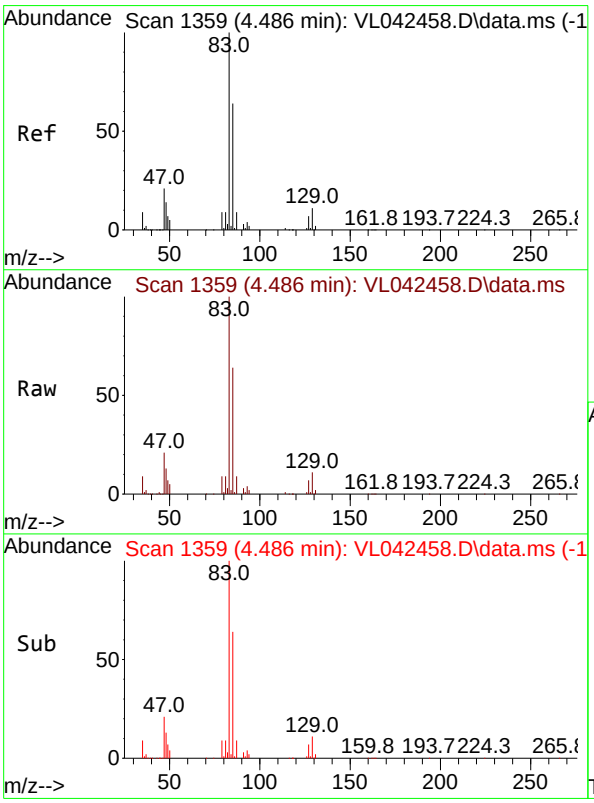
Ion	Ratio	Lower	Upper
42	100		
72	41.9	33.5	50.3
71	40.8	32.6	49.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

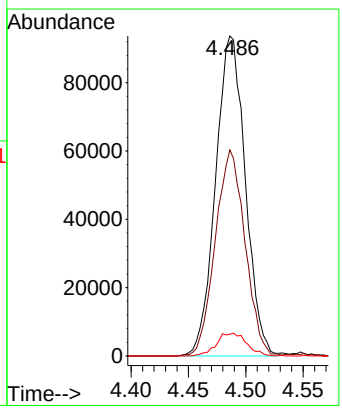
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

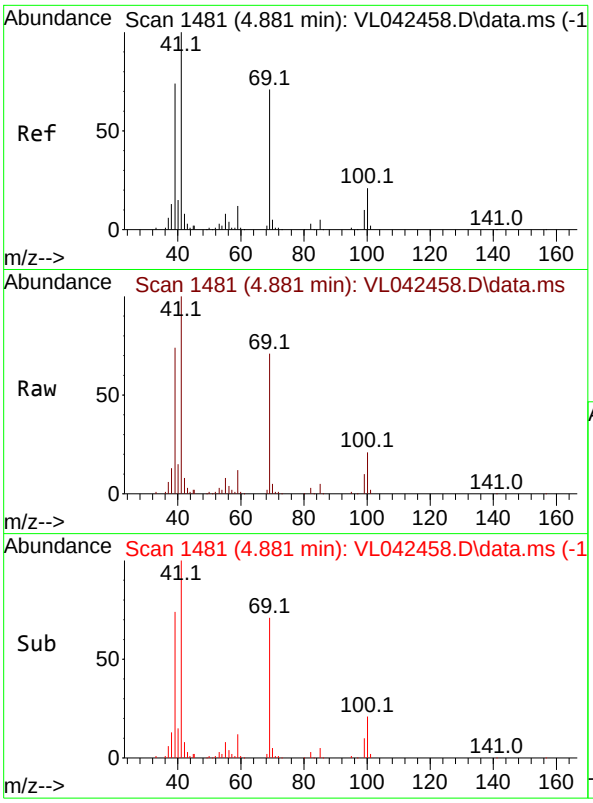


#42
Bromodichloromethane
Concen: 9.445 ppbv
RT: 4.486 min Scan# 1359
Delta R.T. 0.000 min
Lab File: VL042458.D
Acq: 01 May 2025 09:03

Tgt Ion: 83 Resp: 168957

Ion	Ratio	Lower	Upper
83	100		
85	64.4	51.5	77.3
127	6.8	5.4	8.2

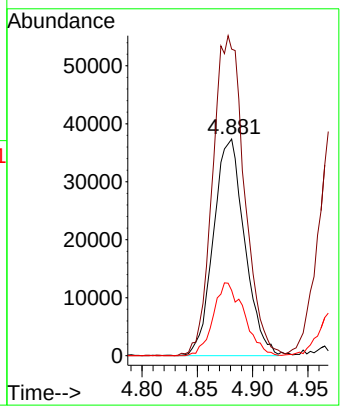




#43
Methyl Methacrylate
Concen: 10.339 ppbv
RT: 4.881 min Scan# 14
Delta R.T. 0.000 min
Lab File: VL042458.D
Acq: 01 May 2025 09:03

Tgt Ion: 69 Resp: 7311

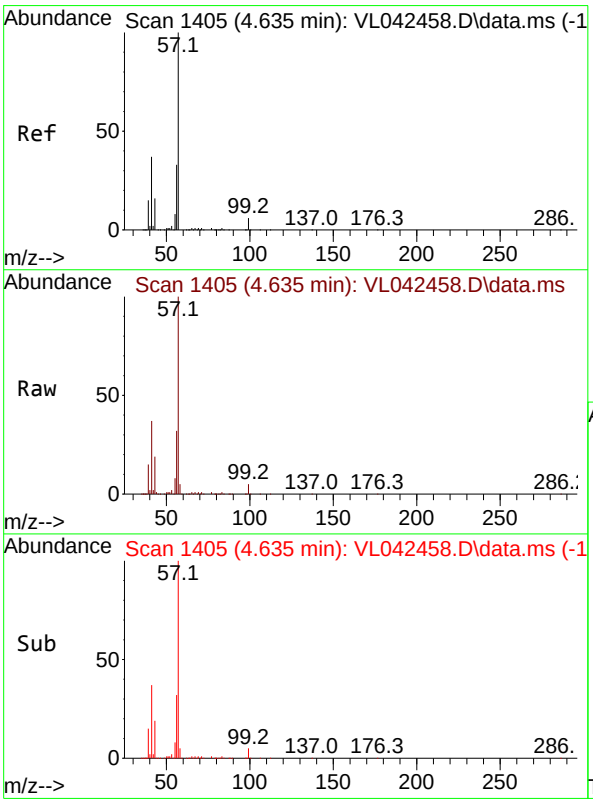
Ion	Ratio	Lower	Upper
69	100		
41	150.9	120.8	181.2
100	33.4	26.7	40.1



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

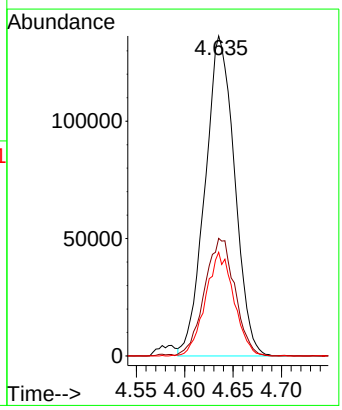
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

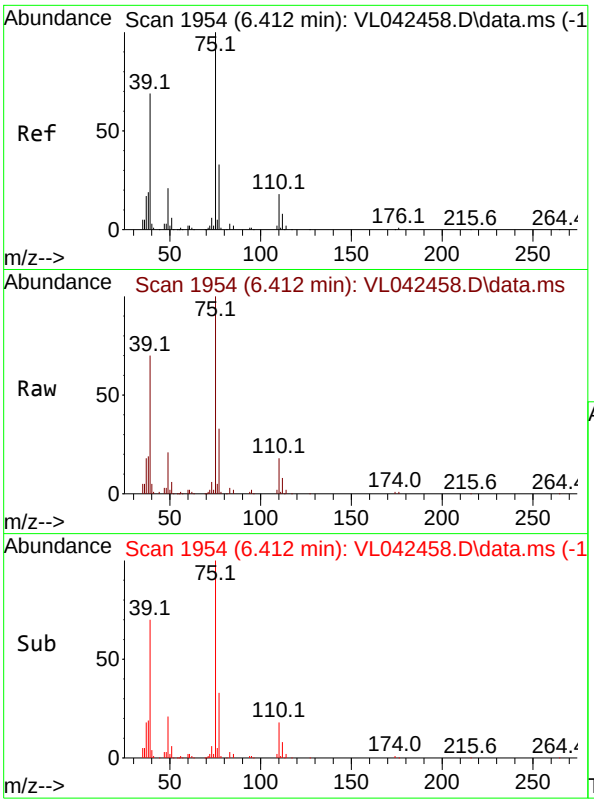


#44
2,2,4-Trimethylpentane
Concen: 9.420 ppbv
RT: 4.635 min Scan# 1405
Delta R.T. 0.000 min
Lab File: VL042458.D
Acq: 01 May 2025 09:03

Tgt Ion: 57 Resp: 289161

Ion	Ratio	Lower	Upper
57	100		
41	38.2	30.6	45.8
56	31.3	25.0	37.6

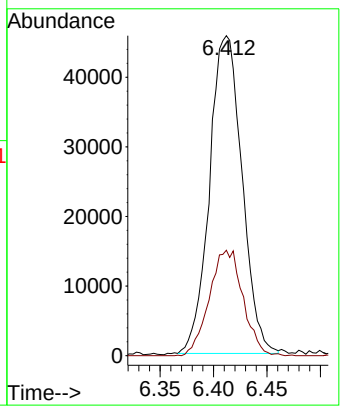




#45
t-1,3-Dichloropropene
Concen: 10.385 ppbv
RT: 6.412 min Scan# 1
Delta R.T. 0.000 min
Lab File: VL042458.D
Acq: 01 May 2025 09:03

Tgt Ion: 75 Resp: 9669

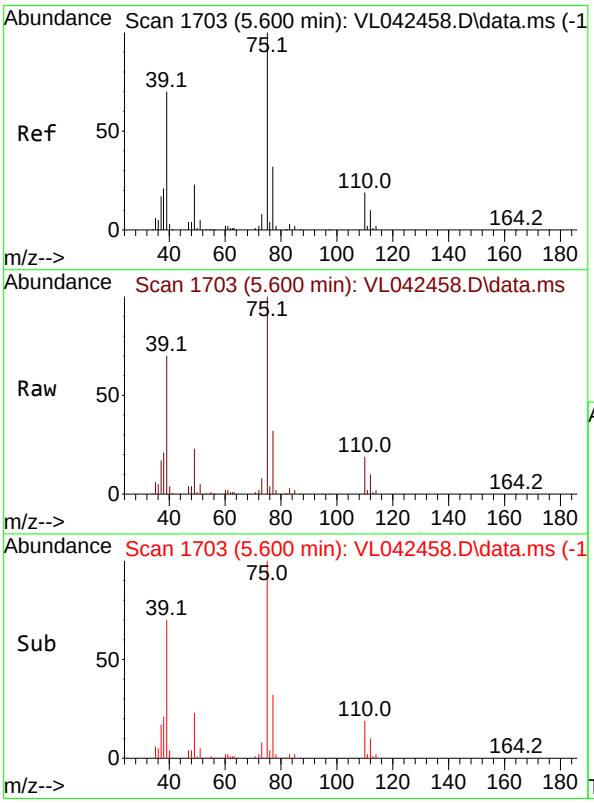
Ion	Ratio	Lower	Upper
75	100		
77	32.9	26.3	39.5



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

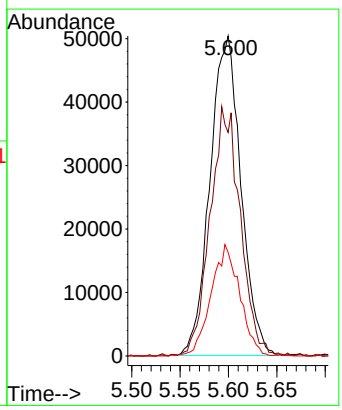
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

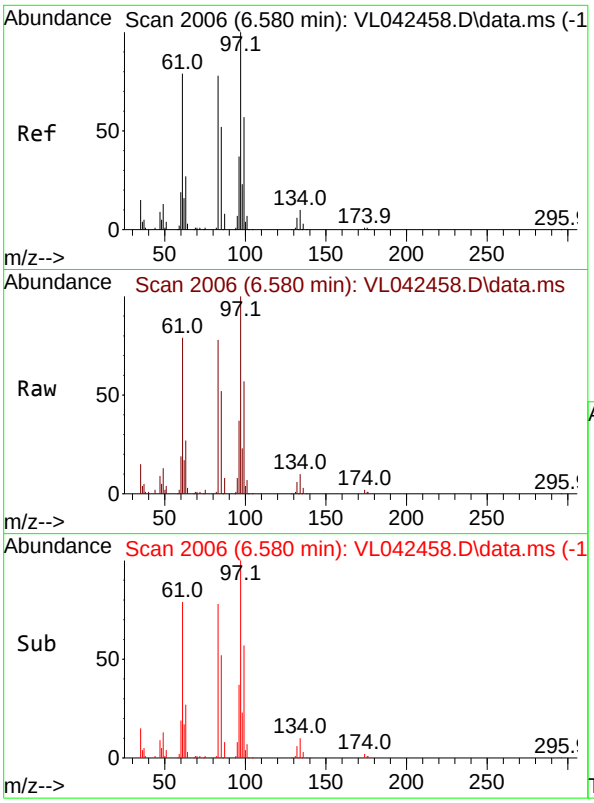


#46
cis-1,3-Dichloropropene
Concen: 10.111 ppbv
RT: 5.600 min Scan# 1703
Delta R.T. 0.000 min
Lab File: VL042458.D
Acq: 01 May 2025 09:03

Tgt Ion: 75 Resp: 111768

Ion	Ratio	Lower	Upper
75	100		
39	69.6	55.7	83.5
77	32.3	25.8	38.8

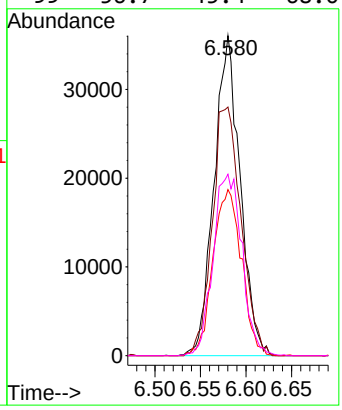




#47
1,1,2-Trichloroethane
Concen: 9.207 ppbv
RT: 6.580 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042458.D
Acq: 01 May 2025 09:03

Tgt Ion: 97 Resp: 7180

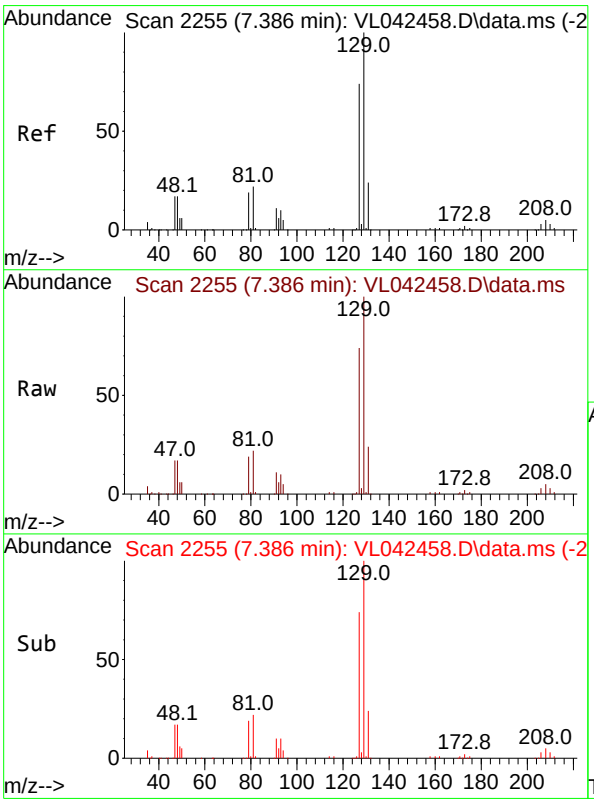
Ion	Ratio	Lower	Upper
97	100		
83	77.7	62.2	93.2
85	51.9	41.5	62.3
99	56.7	45.4	68.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

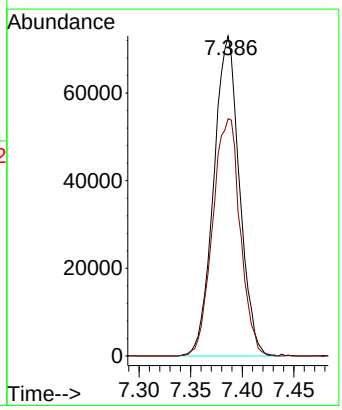
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

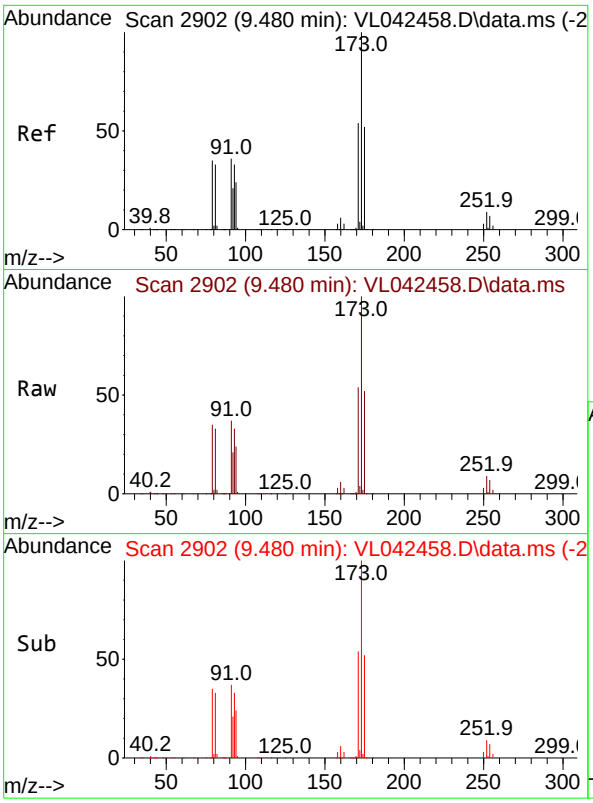


#48
Dibromochloromethane
Concen: 9.628 ppbv
RT: 7.386 min Scan# 2255
Delta R.T. 0.000 min
Lab File: VL042458.D
Acq: 01 May 2025 09:03

Tgt Ion:129 Resp: 126754

Ion	Ratio	Lower	Upper
129	100		
127	79.0	39.5	118.5

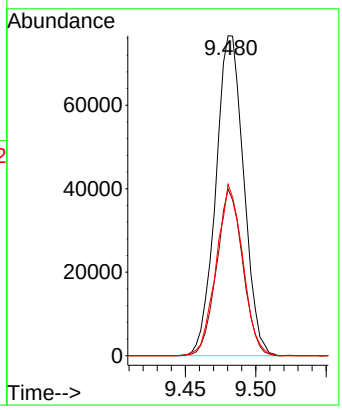




#49
Bromoform
Concen: 9.610 ppbv
RT: 9.480 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042458.D
Acq: 01 May 2025 09:03

Tgt Ion:173 Resp: 10610

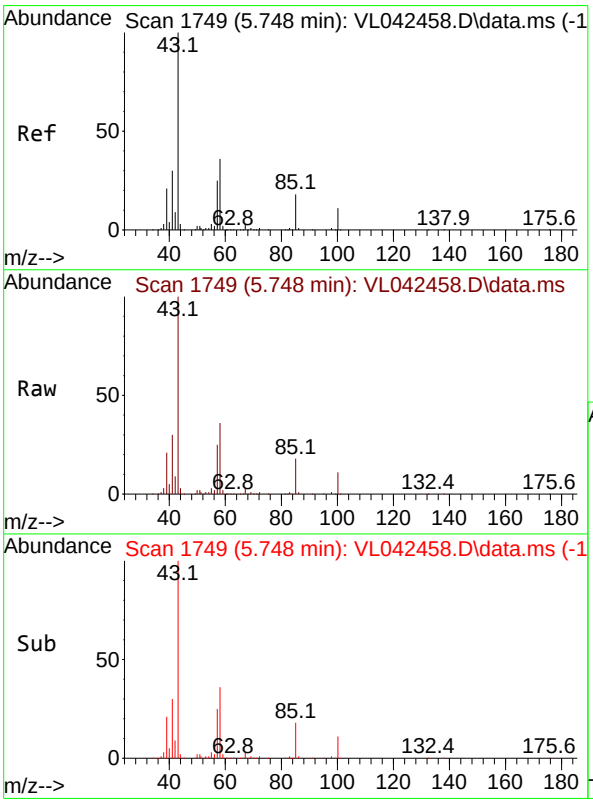
Ion	Ratio	Lower	Upper
173	100		
175	48.6	38.9	58.3
171	50.7	40.6	60.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

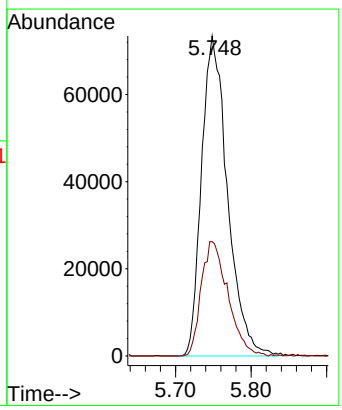
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

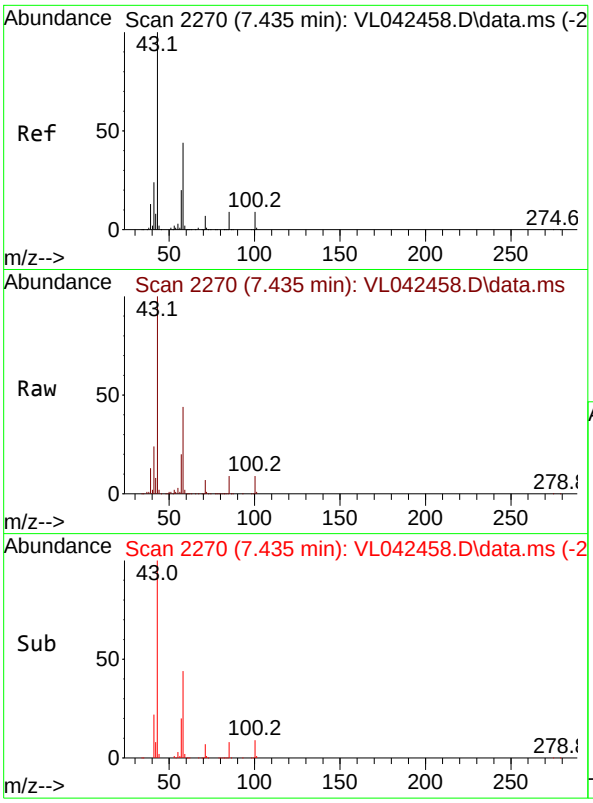


#50
4-Methyl-2-Pentanone
Concen: 9.518 ppbv
RT: 5.748 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VL042458.D
Acq: 01 May 2025 09:03

Tgt Ion: 43 Resp: 175193

Ion	Ratio	Lower	Upper
43	100		
58	36.9	29.5	44.3

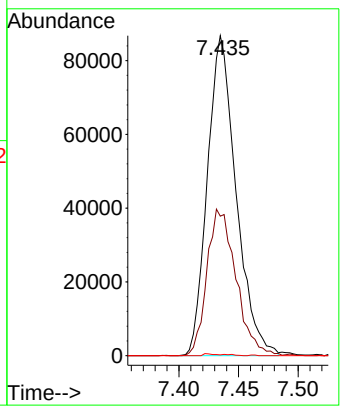




#51
2-Hexanone
Concen: 9.855 ppbv
RT: 7.435 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042458.D
Acq: 01 May 2025 09:03

Tgt Ion: 43 Resp: 14527

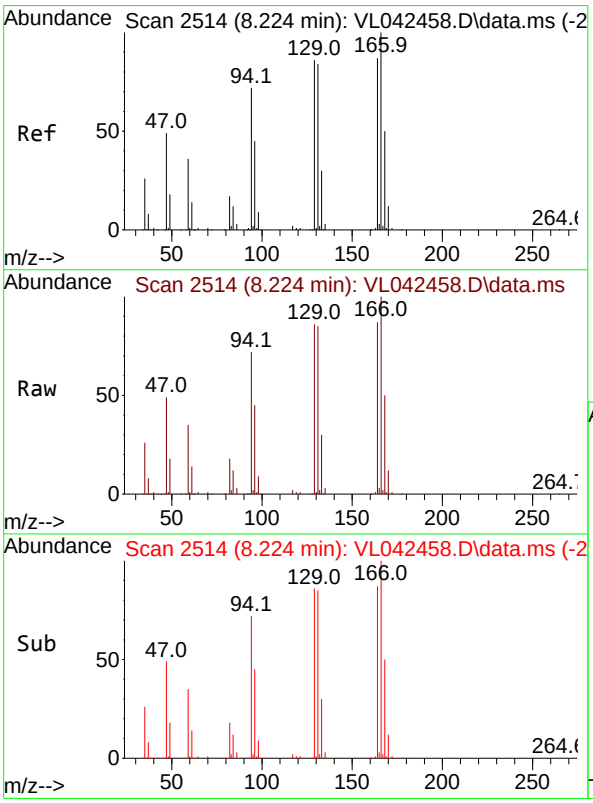
Ion	Ratio	Lower	Upper
43	100		
58	46.5	37.2	55.8
98	0.5	0.4	0.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

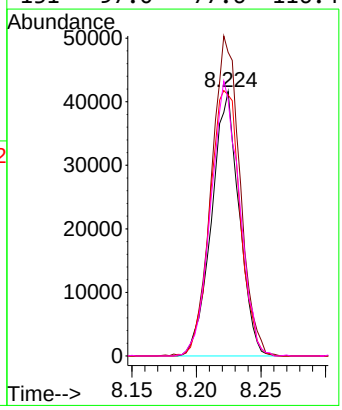
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

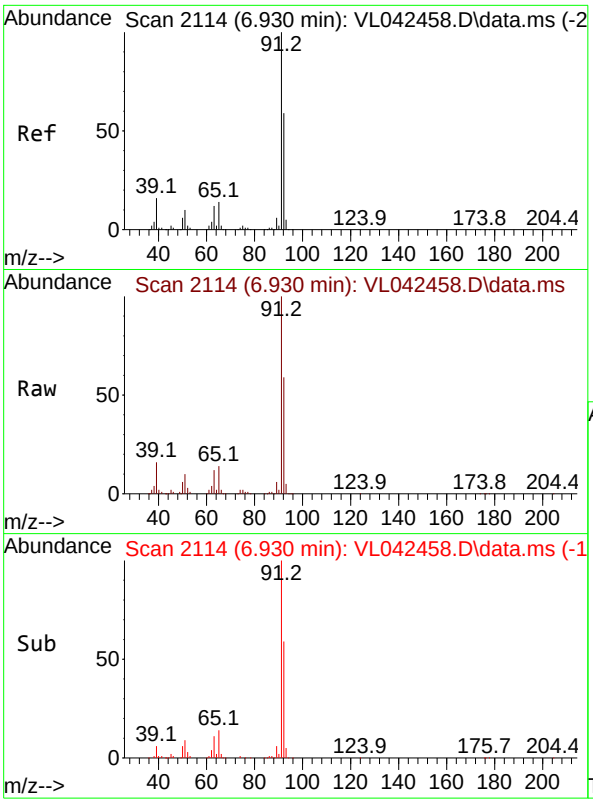


#52
Tetrachloroethene
Concen: 8.500 ppbv
RT: 8.224 min Scan# 2514
Delta R.T. 0.000 min
Lab File: VL042458.D
Acq: 01 May 2025 09:03

Tgt Ion:164 Resp: 61456

Ion	Ratio	Lower	Upper
164	100		
166	114.5	91.6	137.4
129	98.7	79.0	118.4
131	97.0	77.6	116.4

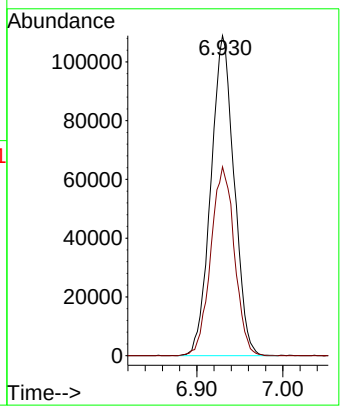




#53
Toluene
Concen: 10.171 ppbv
RT: 6.930 min Scan# 21
Delta R.T. 0.000 min
Lab File: VL042458.D
Acq: 01 May 2025 09:03

Tgt Ion: 91 Resp: 20449

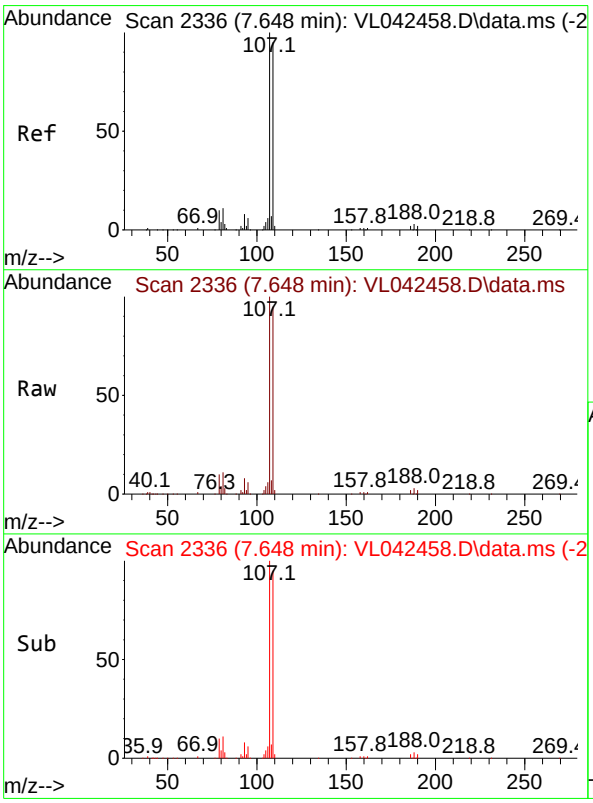
Ion	Ratio	Lower	Upper
91	100		
92	59.9	47.9	71.9



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

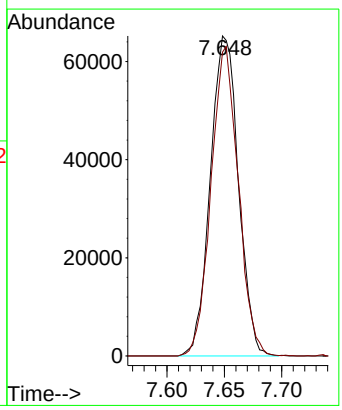
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

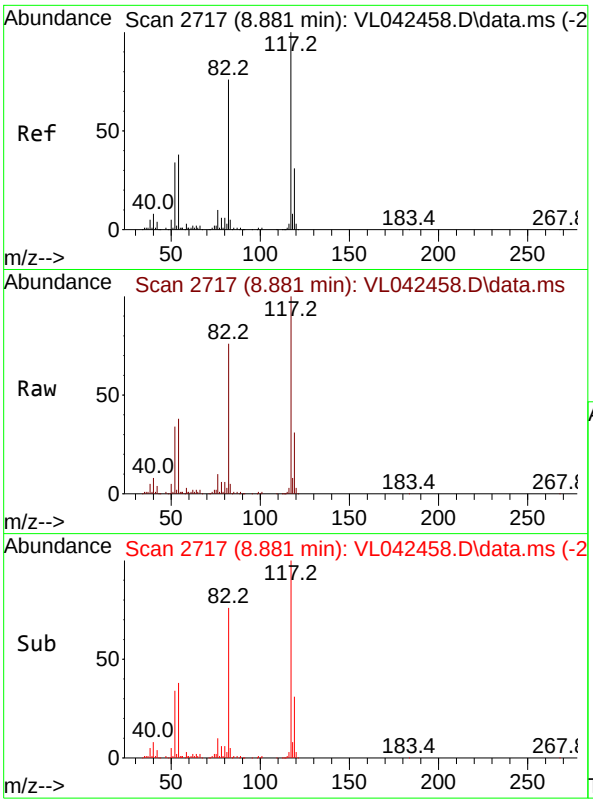


#54
1,2-Dibromoethane
Concen: 9.300 ppbv
RT: 7.648 min Scan# 2336
Delta R.T. 0.000 min
Lab File: VL042458.D
Acq: 01 May 2025 09:03

Tgt Ion:107 Resp: 111506

Ion	Ratio	Lower	Upper
107	100		
109	95.0	76.0	114.0

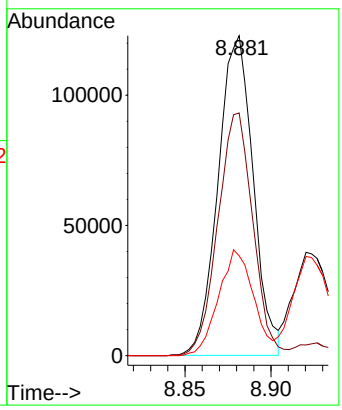




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.881 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042458.D
Acq: 01 May 2025 09:03

Tgt Ion:117 Resp: 17416

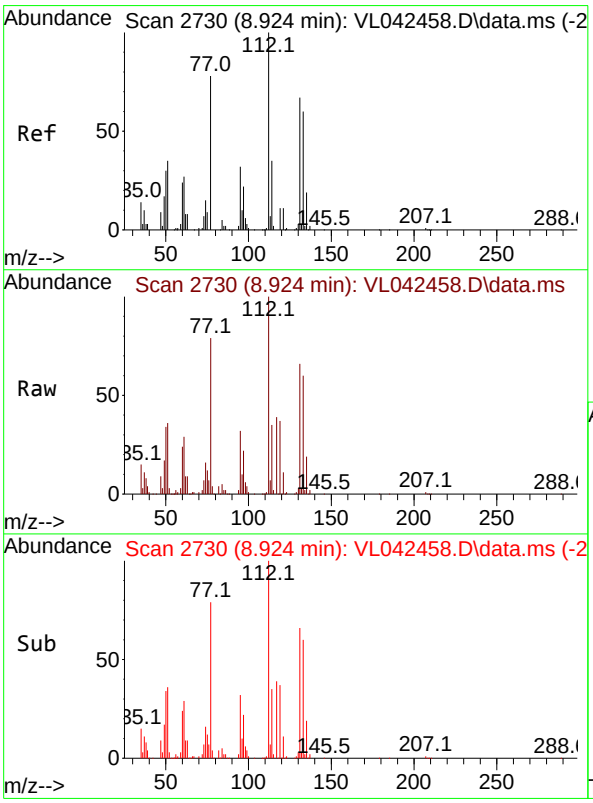
Ion	Ratio	Lower	Upper
117	100		
82	79.4	63.5	95.3
119	32.3	25.8	38.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

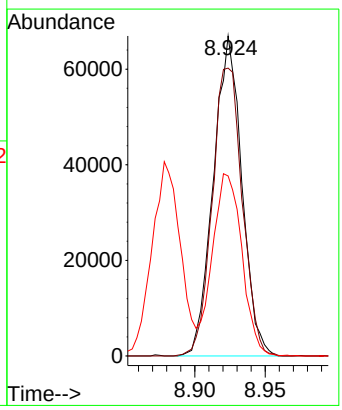
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

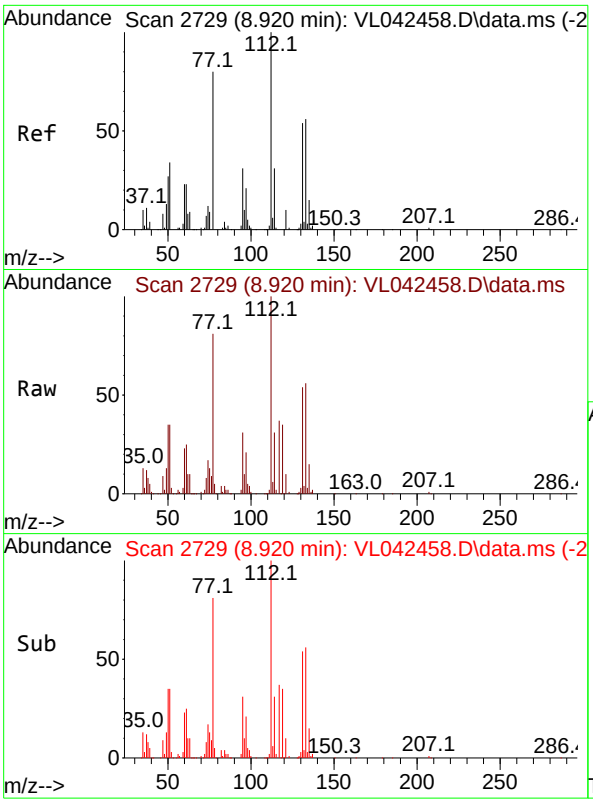


#56
1,1,1,2-Tetrachloroethane
Concen: 9.172 ppbv
RT: 8.924 min Scan# 2730
Delta R.T. 0.000 min
Lab File: VL042458.D
Acq: 01 May 2025 09:03

Tgt Ion:131 Resp: 94346

Ion	Ratio	Lower	Upper
131	100		
133	95.0	76.0	114.0
119	59.1	46.1	69.1

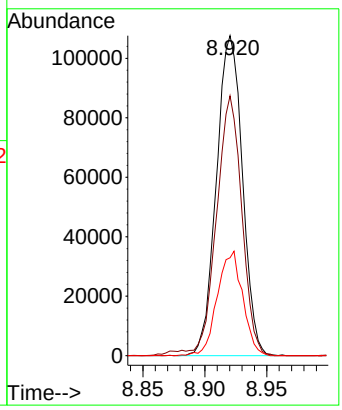




#57
Chlorobenzene
Concen: 8.994 ppbv
RT: 8.920 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042458.D
Acq: 01 May 2025 09:03

Tgt Ion:112 Resp: 15740

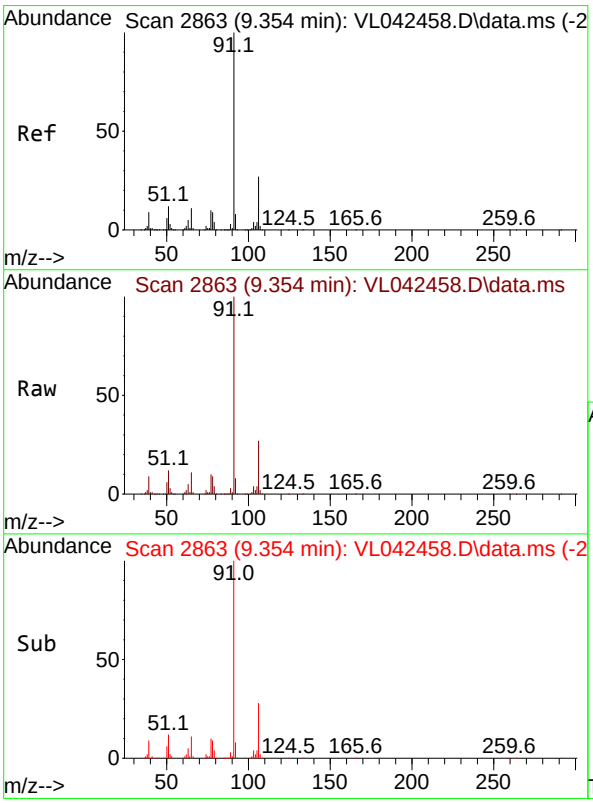
Ion	Ratio	Lower	Upper
112	100		
77	81.2	65.0	97.4
114	30.6	27.5	33.7



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

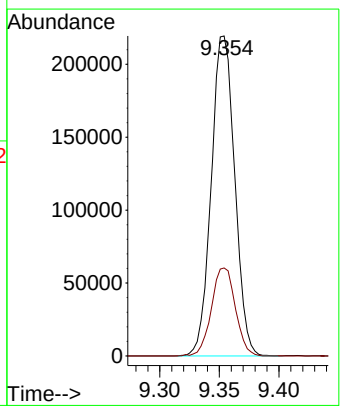
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

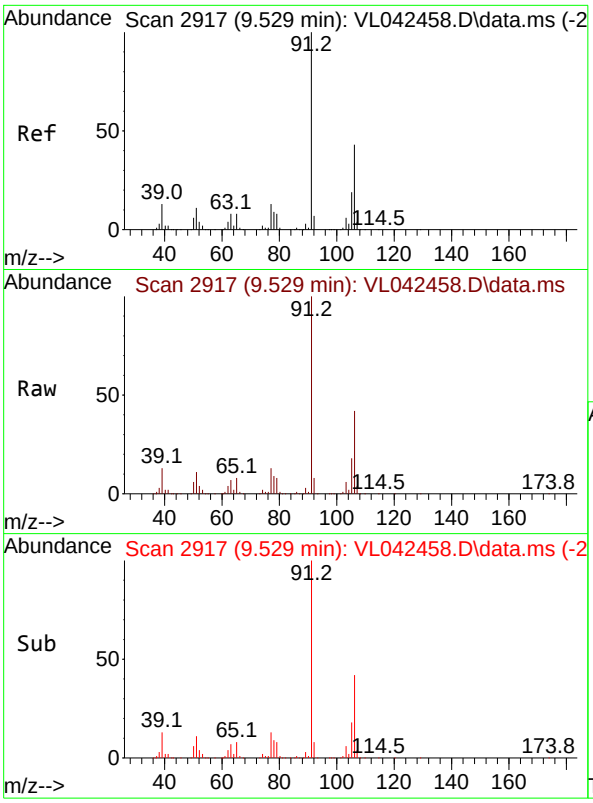


#58
Ethyl Benzene
Concen: 10.321 ppbv
RT: 9.354 min Scan# 2863
Delta R.T. 0.000 min
Lab File: VL042458.D
Acq: 01 May 2025 09:03

Tgt Ion: 91 Resp: 300412

Ion	Ratio	Lower	Upper
91	100		
106	27.4	21.9	32.9

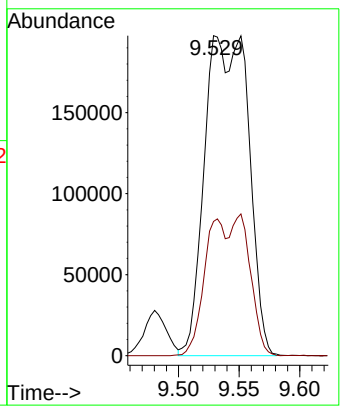




#59
m/p-Xylene
Concen: 20.404 ppbv m
RT: 9.529 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042458.D
Acq: 01 May 2025 09:03

Tgt Ion: 91 Resp: 49792

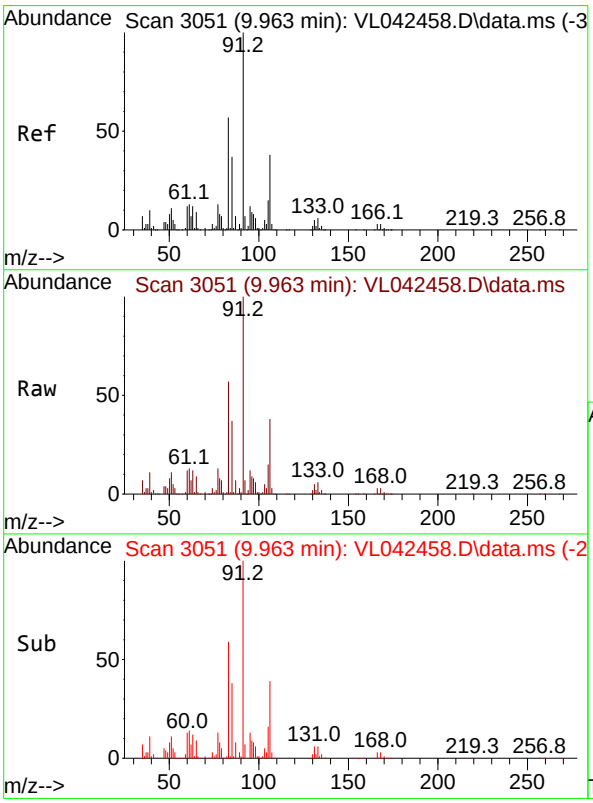
Ion	Ratio	Lower	Upper
91	100		
106	0.0	34.2	51.2#



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

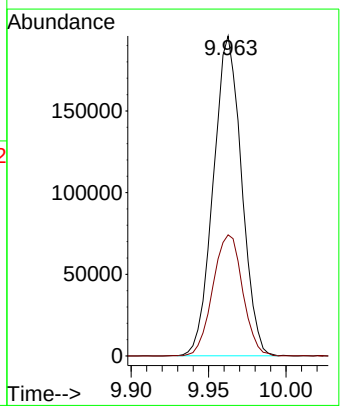
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

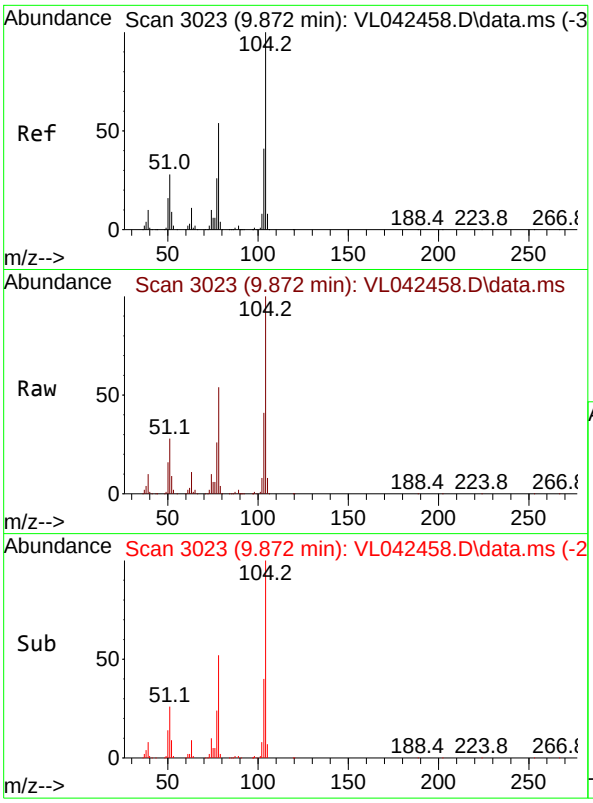


#60
o-Xylene
Concen: 10.157 ppbv
RT: 9.963 min Scan# 3051
Delta R.T. 0.000 min
Lab File: VL042458.D
Acq: 01 May 2025 09:03

Tgt Ion: 91 Resp: 247784

Ion	Ratio	Lower	Upper
91	100		
106	40.1	20.1	60.2

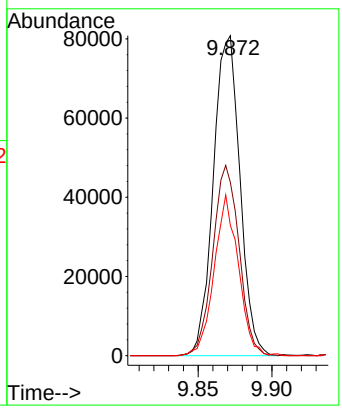




#61
Styrene
Concen: 11.134 ppbv
RT: 9.872 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042458.D
Acq: 01 May 2025 09:03

Tgt Ion:104 Resp: 10150

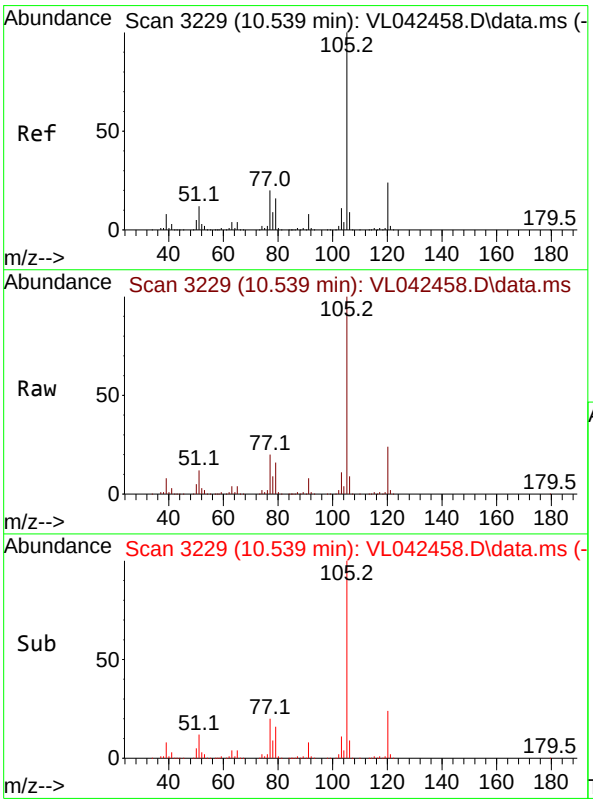
Ion	Ratio	Lower	Upper
104	100		
78	58.6	46.9	70.3
103	45.8	36.6	55.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

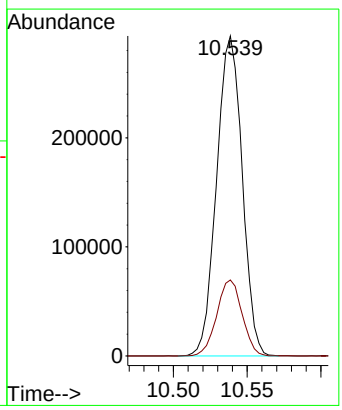
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

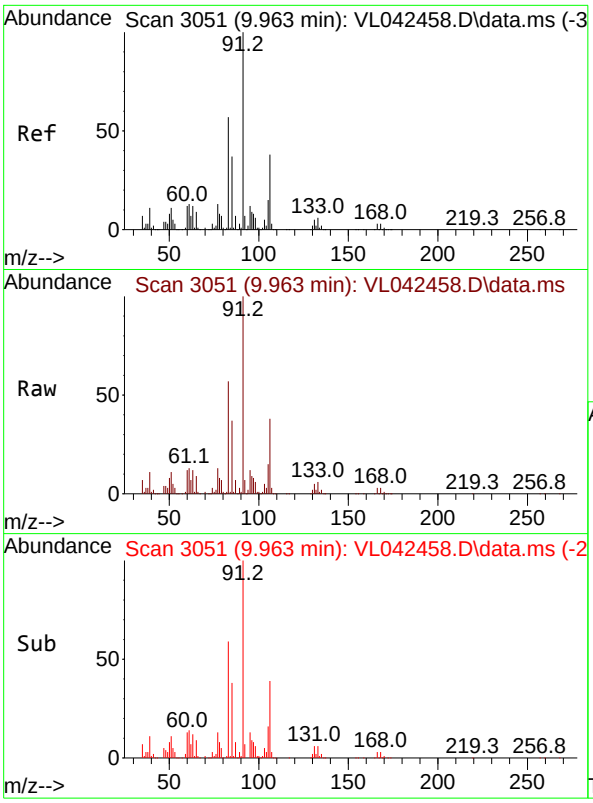


#62
Isopropylbenzene
Concen: 10.047 ppbv
RT: 10.539 min Scan# 3229
Delta R.T. 0.000 min
Lab File: VL042458.D
Acq: 01 May 2025 09:03

Tgt Ion:105 Resp: 354055

Ion	Ratio	Lower	Upper
105	100		
120	23.5	18.8	28.2





#63
1,1,2,2-Tetrachloroethane
Concen: 9.305 ppbv
RT: 9.963 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042458.D
Acq: 01 May 2025 09:03

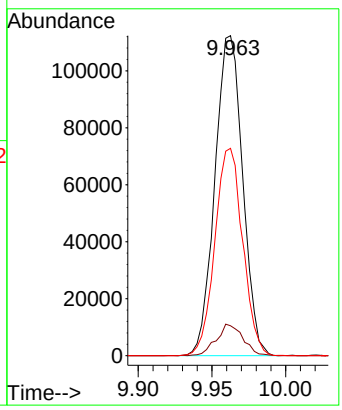
Tgt Ion: 83 Resp: 14729

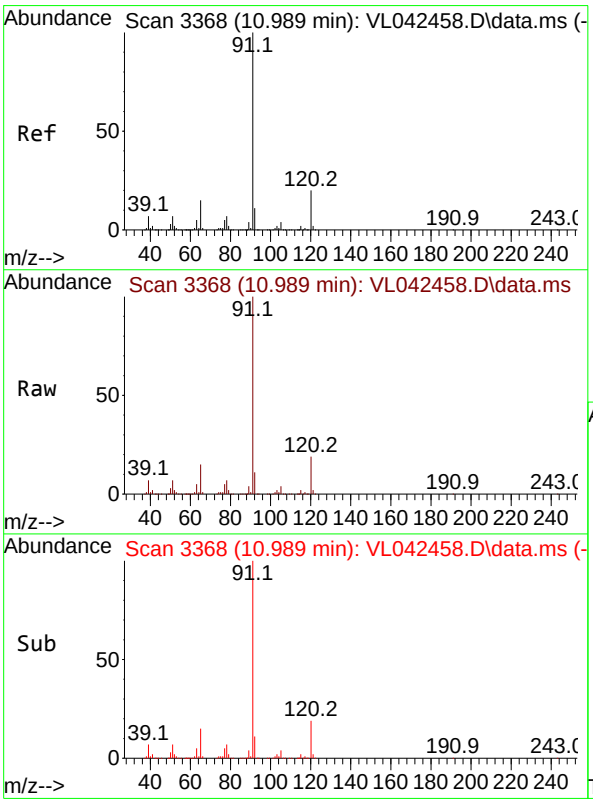
Ion	Ratio	Lower	Upper
83	100		
131	9.4	4.7	14.1
85	64.9	32.5	97.4

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

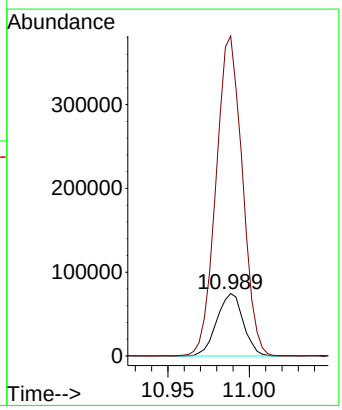


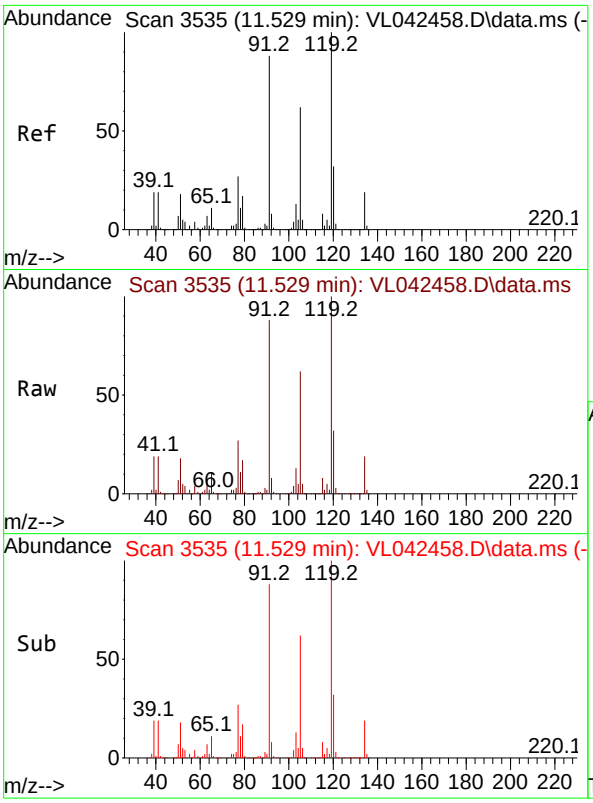


#64
n-propylbenzene
Concen: 9.787 ppbv
RT: 10.989 min Scan# 3368
Delta R.T. 0.000 min
Lab File: VL042458.D
Acq: 01 May 2025 09:03

Tgt Ion:120 Resp: 84006

Ion	Ratio	Lower	Upper
120	100		
91	510.7	408.6	612.8





#65
tert-Butylbenzene
Concen: 10.065 ppbv
RT: 11.529 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042458.D
Acq: 01 May 2025 09:03

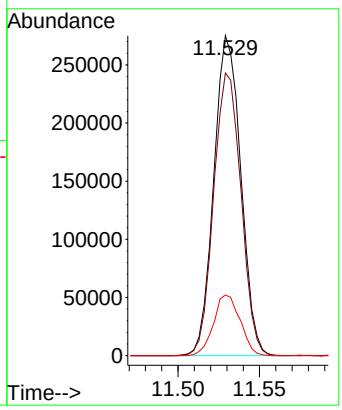
Tgt Ion:119 Resp: 31653

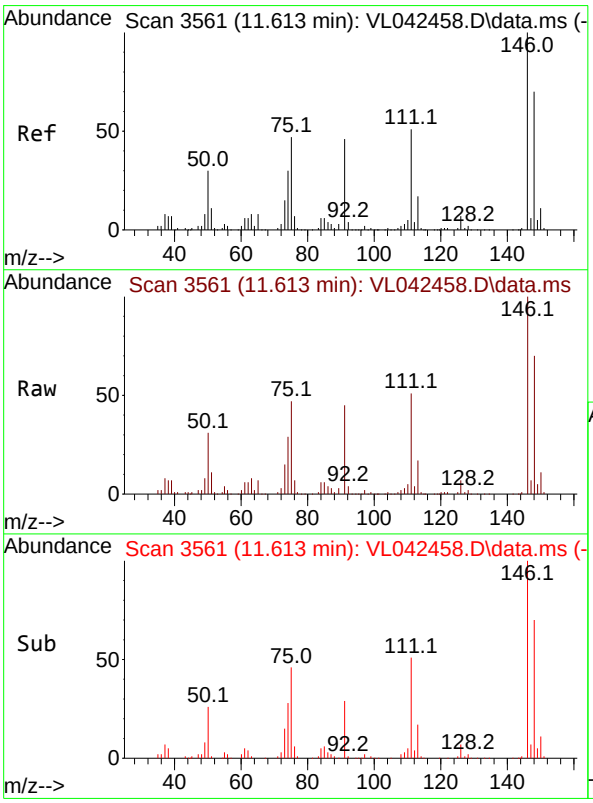
Ion	Ratio	Lower	Upper
119	100		
91	89.5	71.6	107.4
134	18.7	15.0	22.4

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

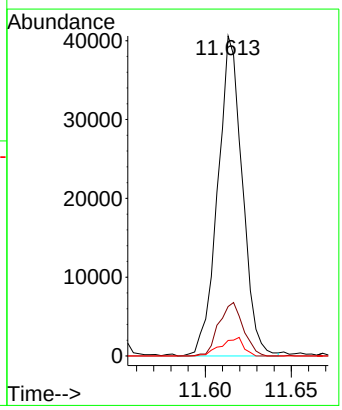


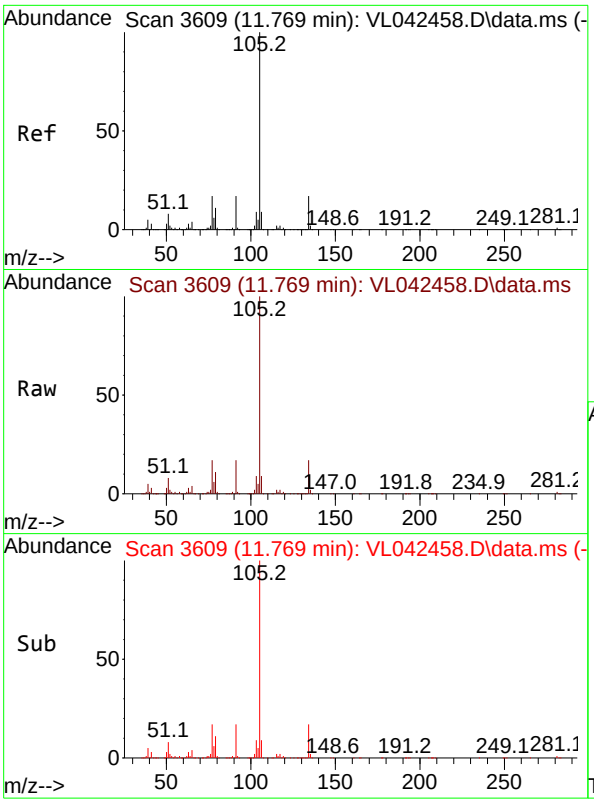


#66
Benzyl Chloride
Concen: 11.096 ppbv
RT: 11.613 min Scan# 3561
Delta R.T. 0.000 min
Lab File: VL042458.D
Acq: 01 May 2025 09:03

Tgt Ion: 91 Resp: 40331

Ion	Ratio	Lower	Upper
91	100		
126	16.5	13.3	19.9
128	5.3	4.2	6.4

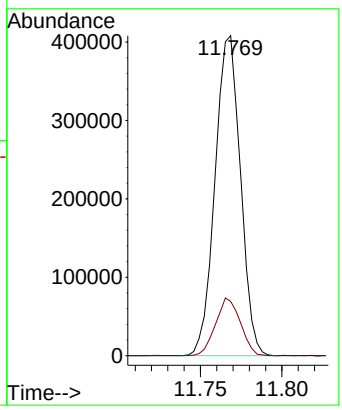




#67
sec-Butylbenzene
Concen: 9.903 ppbv
RT: 11.769 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042458.D
Acq: 01 May 2025 09:03

Tgt Ion:105 Resp: 44260

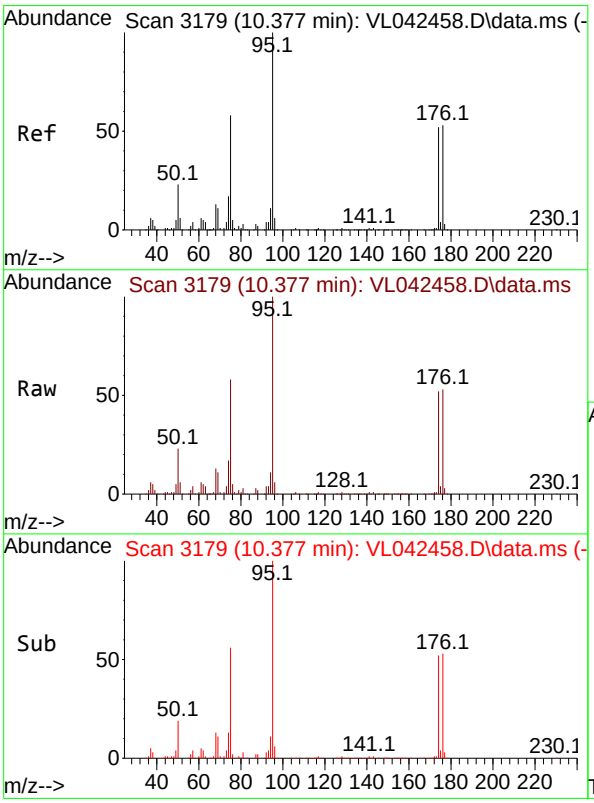
Ion	Ratio	Lower	Upper
105	100		
134	17.6	14.1	21.1



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

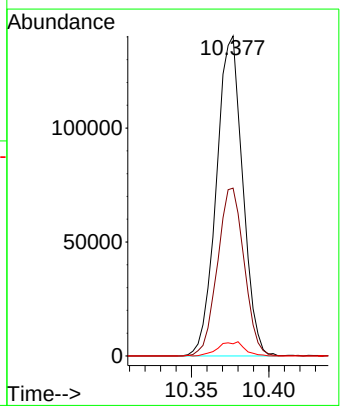
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

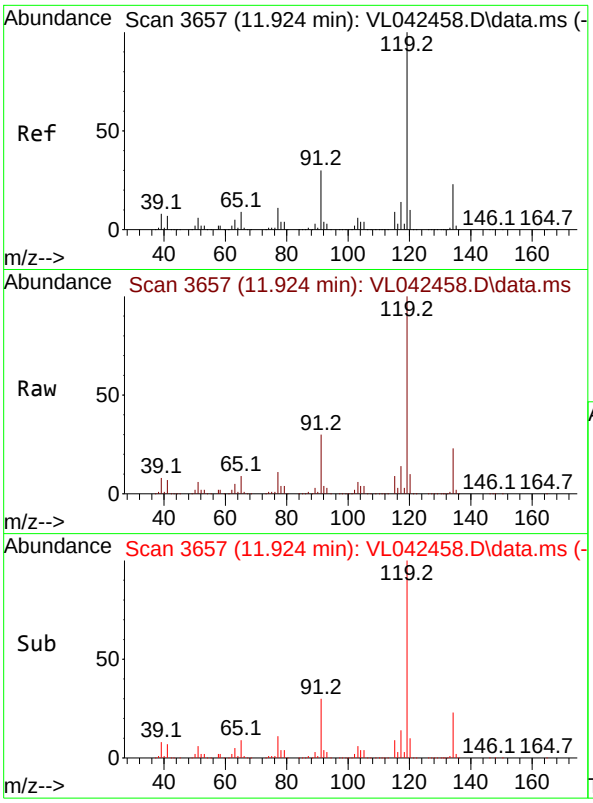


#68
1-Bromo-4-Fluorobenzene
Concen: 10.258 ppbv
RT: 10.377 min Scan# 3179
Delta R.T. 0.000 min
Lab File: VL042458.D
Acq: 01 May 2025 09:03

Tgt Ion: 95 Resp: 165650

Ion	Ratio	Lower	Upper
95	100		
174	53.4	42.7	64.1
175	4.5	3.6	5.4

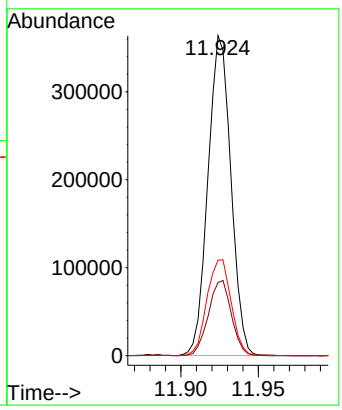




#69
p-Isopropyltoluene
Concen: 9.947 ppbv
RT: 11.924 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042458.D
Acq: 01 May 2025 09:03

Tgt Ion:119 Resp: 37454

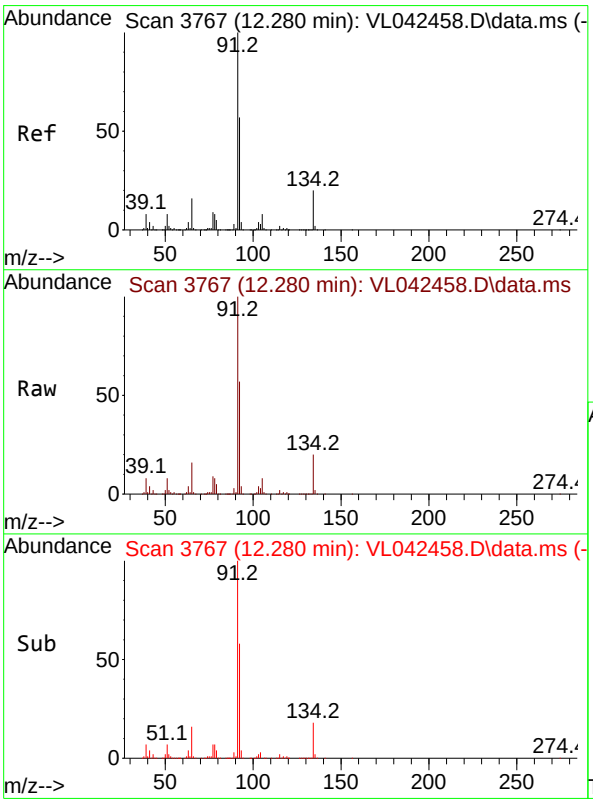
Ion	Ratio	Lower	Upper
119	100		
134	23.7	19.0	28.4
91	31.9	25.5	38.3



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

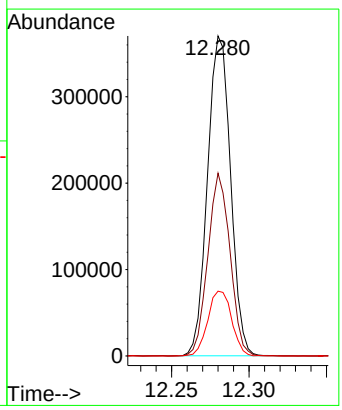
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

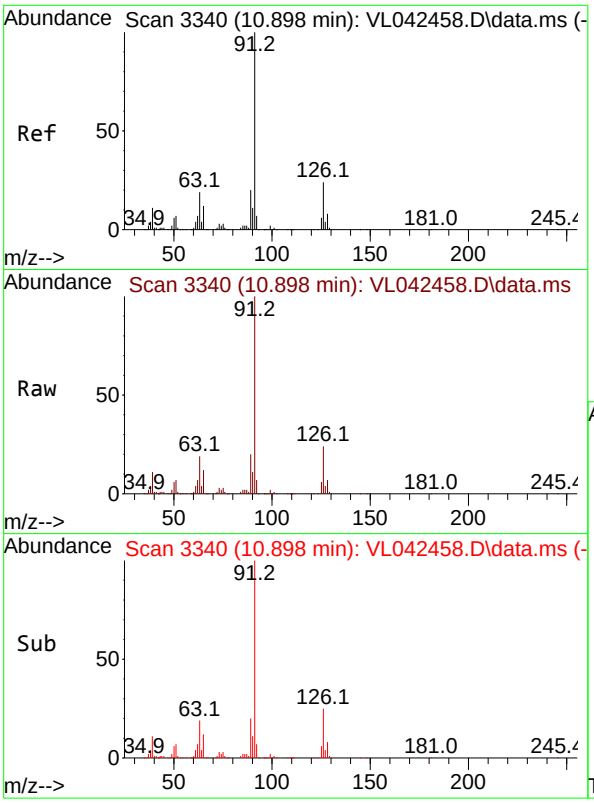


#70
n-Butylbenzene
Concen: 9.836 ppbv
RT: 12.280 min Scan# 3767
Delta R.T. 0.000 min
Lab File: VL042458.D
Acq: 01 May 2025 09:03

Tgt Ion: 91 Resp: 382883

Ion	Ratio	Lower	Upper
91	100		
92	55.0	44.0	66.0
134	21.0	16.8	25.2

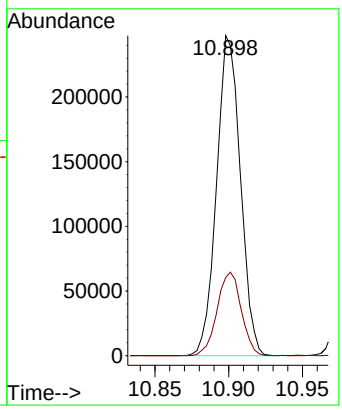




#71
2-Chlorotoluene
Concen: 10.065 ppbv
RT: 10.898 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042458.D
Acq: 01 May 2025 09:03

Tgt Ion: 91 Resp: 27821

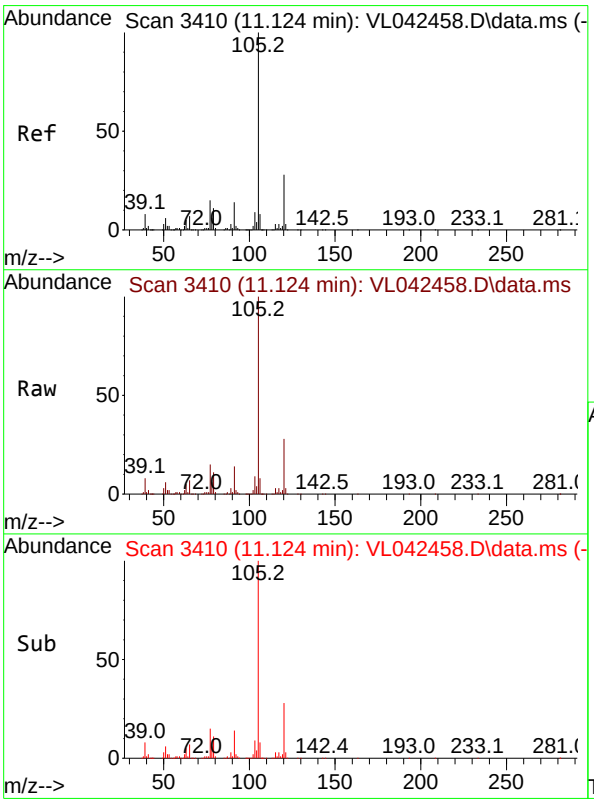
Ion	Ratio	Lower	Upper
91	100		
126	26.4	10.6	42.2



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

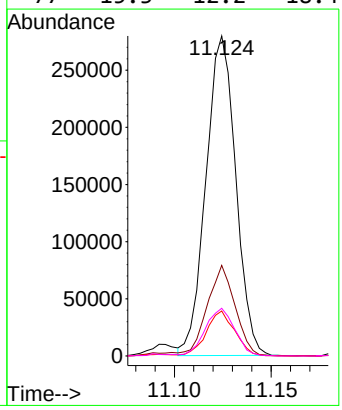
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

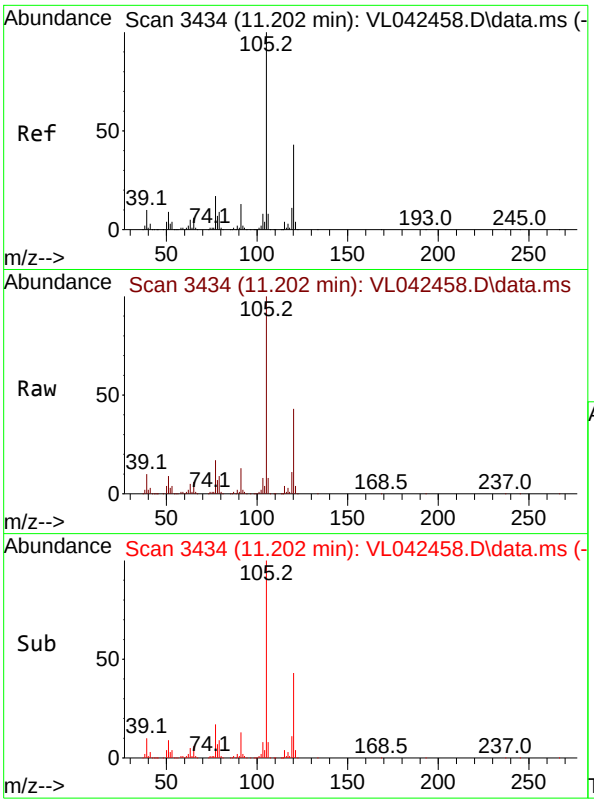


#72
4-Ethyltoluene
Concen: 10.409 ppbv
RT: 11.124 min Scan# 3410
Delta R.T. 0.000 min
Lab File: VL042458.D
Acq: 01 May 2025 09:03

Tgt Ion:105 Resp: 299831

Ion	Ratio	Lower	Upper
105	100		
120	27.5	22.0	33.0
91	14.0	11.2	16.8
77	15.3	12.2	18.4

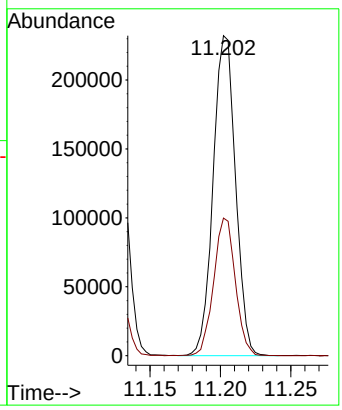




#73
1,3,5-Trimethylbenzene
Concen: 10.143 ppbv
RT: 11.202 min Scan# 34
Delta R.T. 0.000 min
Lab File: VL042458.D
Acq: 01 May 2025 09:03

Tgt Ion:105 Resp: 25695

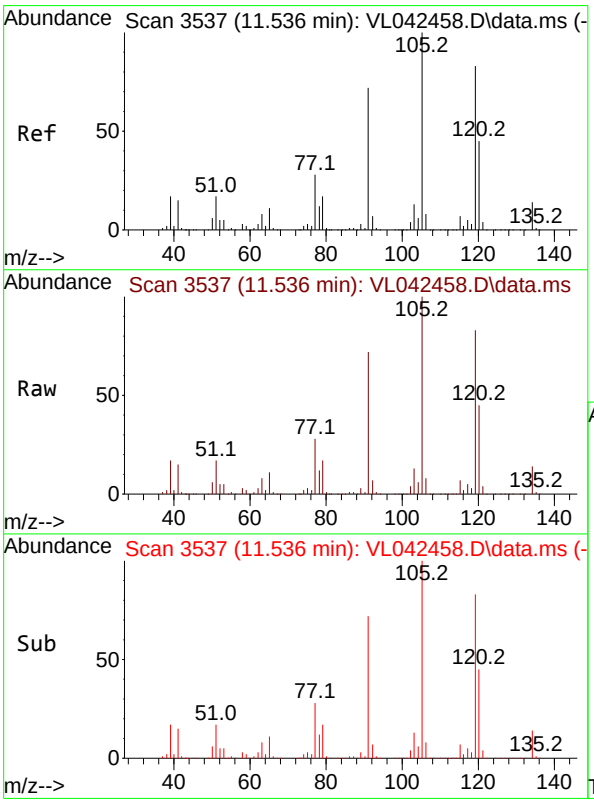
Ion	Ratio	Lower	Upper
105	100		
120	43.0	34.4	51.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

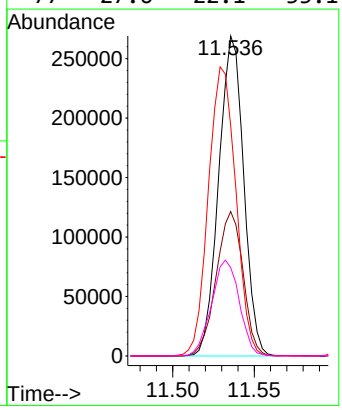
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

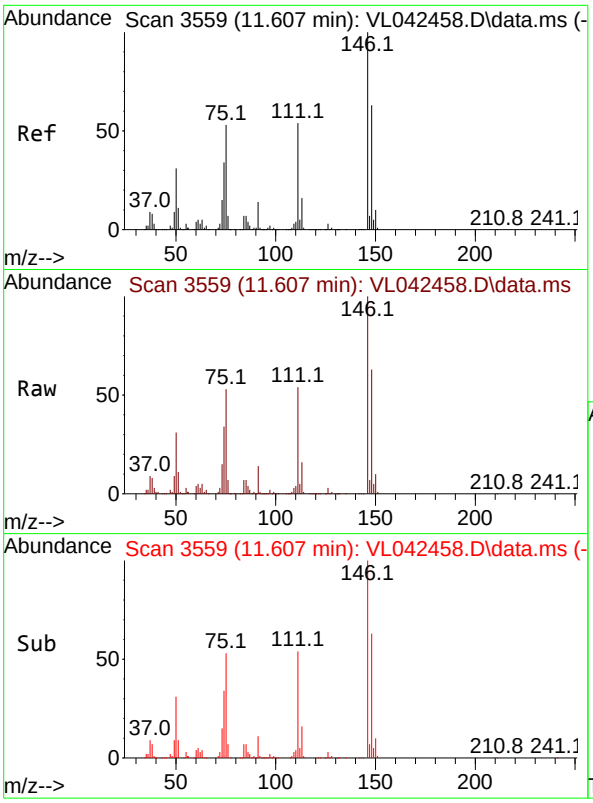


#74
1,2,4-Trimethylbenzene
Concen: 9.351 ppbv
RT: 11.536 min Scan# 3537
Delta R.T. 0.000 min
Lab File: VL042458.D
Acq: 01 May 2025 09:03

Tgt Ion:105 Resp: 286615

Ion	Ratio	Lower	Upper
105	100		
120	45.1	36.1	54.1
91	72.0	57.6	86.4
77	27.6	22.1	33.1

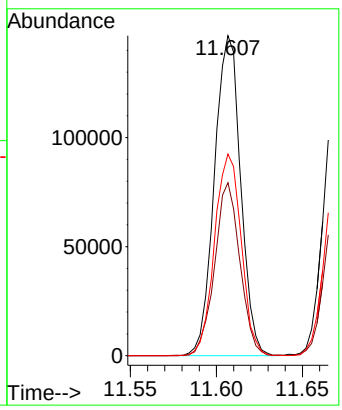




#75
1,3-Dichlorobenzene
Concen: 9.118 ppbv
RT: 11.607 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042458.D
Acq: 01 May 2025 09:03

Tgt Ion:146 Resp: 15559

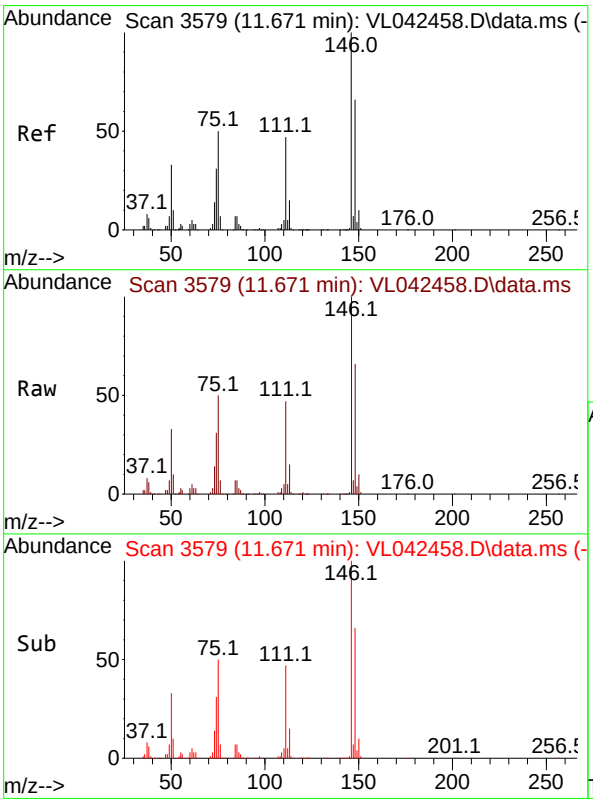
Ion	Ratio	Lower	Upper
146	100		
111	52.2	26.1	78.3
148	64.0	32.0	96.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

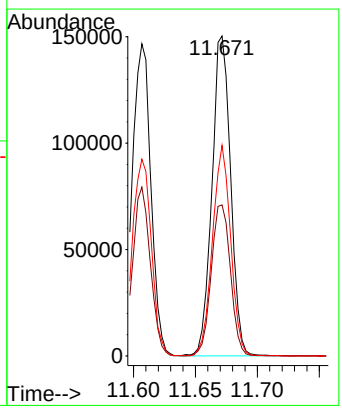
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

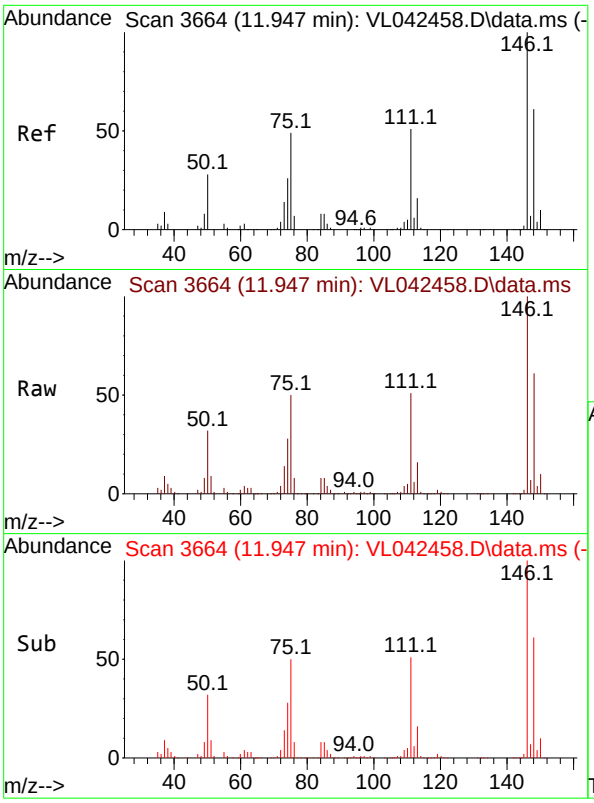


#76
1,4-Dichlorobenzene
Concen: 9.782 ppbv
RT: 11.671 min Scan# 3579
Delta R.T. 0.000 min
Lab File: VL042458.D
Acq: 01 May 2025 09:03

Tgt Ion:146 Resp: 157966

Ion	Ratio	Lower	Upper
146	100		
111	48.8	24.4	73.2
148	64.1	32.0	96.2

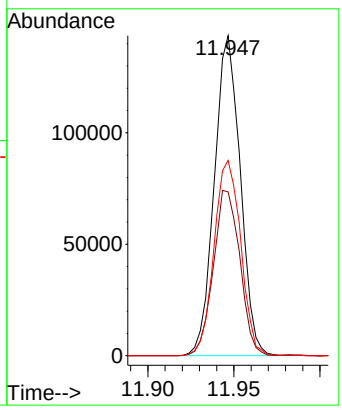




#77
1,2-Dichlorobenzene
Concen: 9.007 ppbv
RT: 11.947 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042458.D
Acq: 01 May 2025 09:03

Tgt Ion:146 Resp: 15043

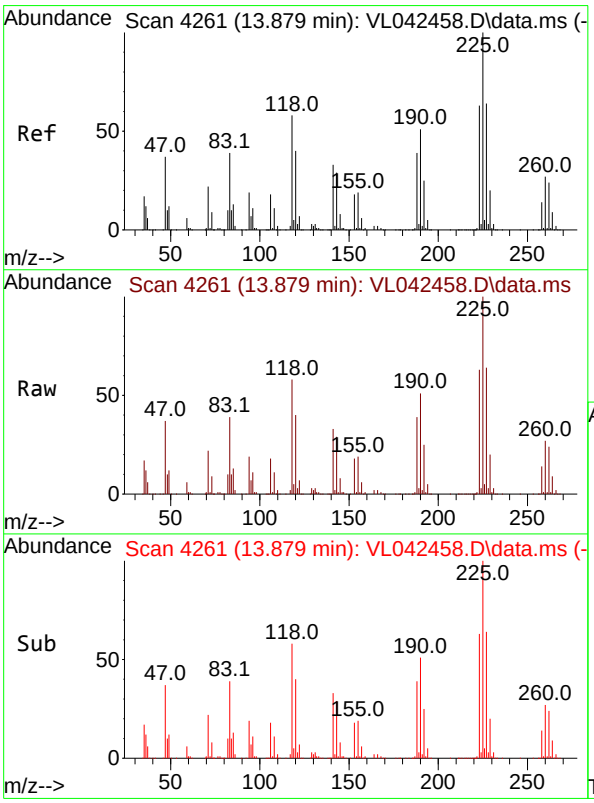
Ion	Ratio	Lower	Upper
146	100		
111	53.0	26.5	79.5
148	62.9	31.5	94.5



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

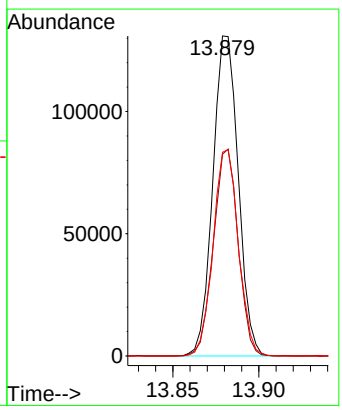
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

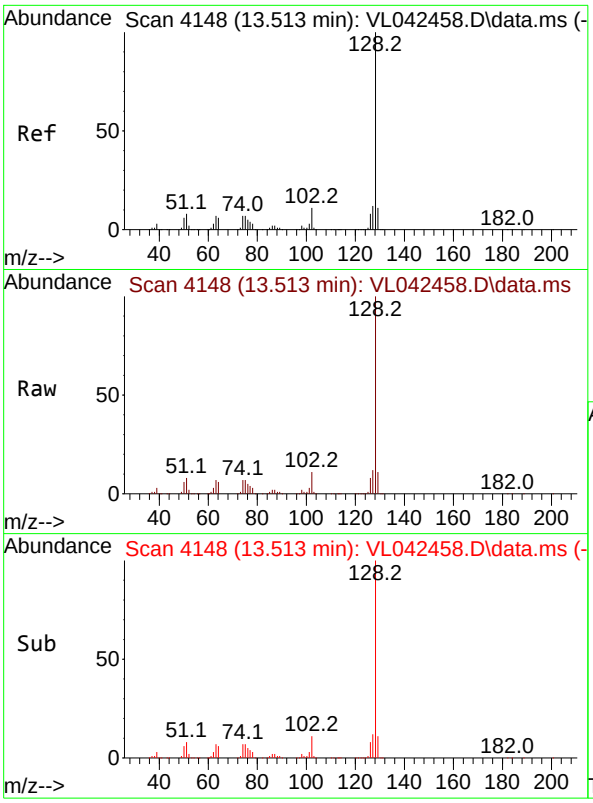


#78
Hexachloro-1,3-Butadiene
Concen: 8.058 ppbv
RT: 13.879 min Scan# 4261
Delta R.T. 0.000 min
Lab File: VL042458.D
Acq: 01 May 2025 09:03

Tgt Ion:225 Resp: 134402

Ion	Ratio	Lower	Upper
225	100		
223	62.8	50.2	75.4
227	64.0	51.2	76.8





#79
Naphthalene
Concen: 10.352 ppbv
RT: 13.513 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042458.D
Acq: 01 May 2025 09:03

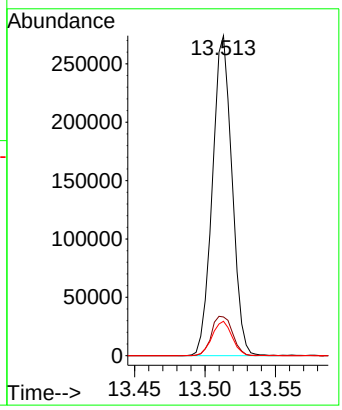
Tgt Ion:128 Resp: 26603

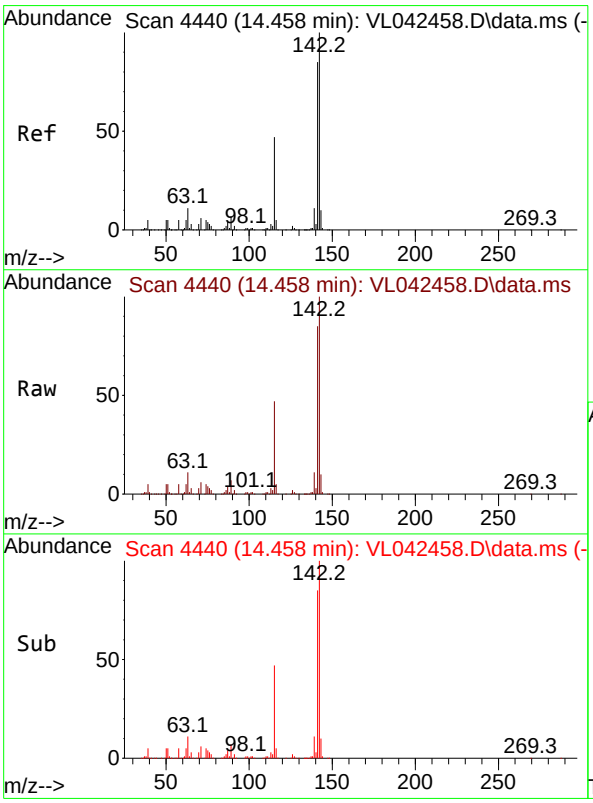
Ion	Ratio	Lower	Upper
128	100		
127	12.1	9.7	14.5
129	10.8	8.6	13.0

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

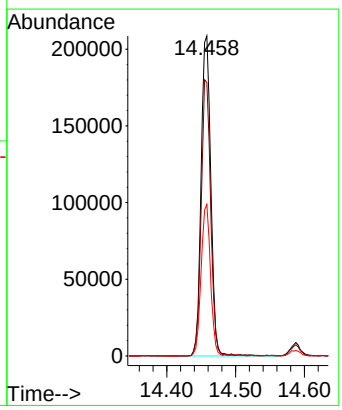


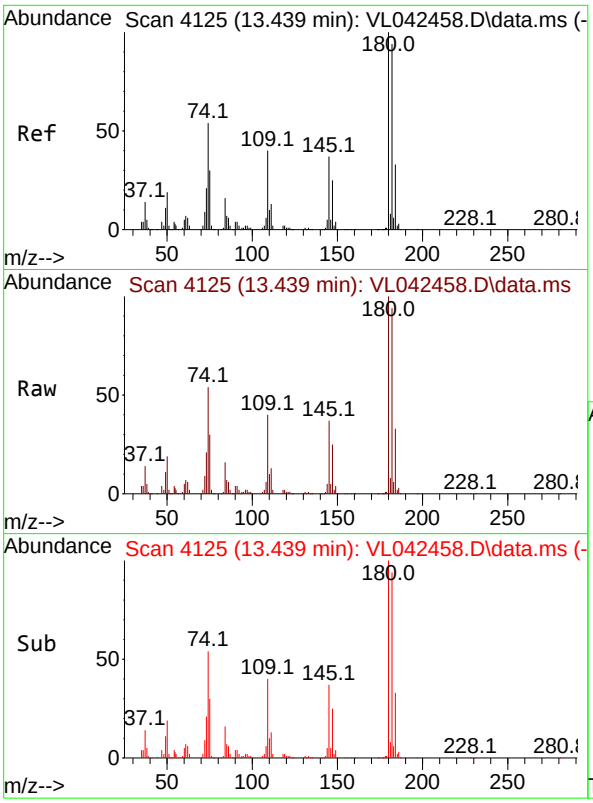


#80
Naphthalene,2-methyl-
Concen: 10.641 ppbv
RT: 14.458 min Scan# 4440
Delta R.T. 0.000 min
Lab File: VL042458.D
Acq: 01 May 2025 09:03

Tgt Ion:142 Resp: 204042

Ion	Ratio	Lower	Upper
142	100		
141	84.6	67.4	101.0
115	46.4	36.9	55.3

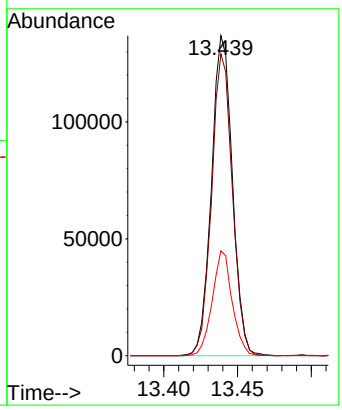




#81
1,2,4-Trichlorobenzene
Concen: 9.844 ppbv
RT: 13.439 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042458.D
Acq: 01 May 2025 09:03

Tgt Ion:180 Resp: 13547

Ion	Ratio	Lower	Upper
180	100		
182	93.2	74.6	111.8
184	31.1	24.9	37.3



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050125\
Data File : VL042459.D
Acq On : 01 May 2025 09:37
Operator : SY/MD
Sample : VSTDICC002
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 02 01:40:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Fri May 02 01:37:48 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.787	49	73220	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.955	114	201951	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.881	117	174624	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.377	95	159777	9.869	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 98.700%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.499	85	23859	1.969	ppbv		100
3) Chlorodifluoromethane	1.476	51	26655	2.081	ppbv		95
4) Chloromethane	1.531	50	10751	2.123	ppbv		95
5) Vinyl Chloride	1.580	62	9122	1.789	ppbv		92
6) Bromomethane	1.667	94	4793	1.990	ppbv	#	62
7) Chloroethane	1.703	64	3972	2.110	ppbv		94
8) Dichlorotetrafluoroethane	1.554	85	20529	2.055	ppbv		100
9) Propene	1.482	41	9234	2.204	ppbv		95
10) Heptane	4.978	43	23329m	2.146	ppbv		
11) Trichlorofluoromethane	1.877	101	22375	2.070	ppbv		96
12) 1,1,2-Trichlorotrifluo...	2.140	101	18230	2.042	ppbv		97
13) Ethanol	1.722	45	2099	2.468	ppbv		94
14) Bromoethene	1.780	108	6686	2.029	ppbv	#	96
15) Acetone	1.835	43	29607	2.215	ppbv		99
16) 1,3-Butadiene	1.609	39	12245	2.077	ppbv		92
17) tert-Butyl alcohol	2.042	59	23722	2.014	ppbv	#	93
18) 1,1-Dichloroethene	2.033	96	8303	1.992	ppbv		92
19) Isopropyl Alcohol	1.884	45	14288	1.931	ppbv		99
20) Methylene Chloride	2.062	84	7590	1.889	ppbv		96
21) Allyl Chloride	2.094	41	17050	1.983	ppbv		96
22) trans-1,2-Dichloroethene	2.340	96	9444	1.940	ppbv		97
23) Vinyl Acetate	2.463	43	26502	2.128	ppbv		98
24) 1,1-Dichloroethane	2.408	63	20027	2.016	ppbv		98
25) Ethyl Acetate	2.839	43	43122	2.015	ppbv		97
26) Hexane	2.822	57	19691	2.112	ppbv		95
27) Carbon Disulfide	2.149	76	21945	2.017	ppbv	#	43
28) Methyl tert-Butyl Ether	2.441	73	11119	1.985	ppbv		94
29) Chloroform	2.848	83	35127	2.010	ppbv		86
30) Cyclohexane	3.858	84	16056	2.060	ppbv		95
31) cis-1,2-Dichloroethene	2.719	61	22619	2.079	ppbv		95
32) 1,1,1-Trichloroethane	3.369	97	36768	1.940	ppbv		99
34) 2-Butanone	2.557	43	31242	2.139	ppbv		95
35) Carbon Tetrachloride	3.764	117	35326	2.011	ppbv		97
36) Benzene	3.661	78	41848	2.196	ppbv	#	88
37) 1,2-Dichloroethane	3.217	62	31049	2.114	ppbv		99
38) Trichloroethene	4.544	130	16311m	2.244	ppbv		
39) 1,2-Dichloropropane	4.311	63	14611	2.047	ppbv		91
40) 1,4-Dioxane	4.593	88	6957m	2.096	ppbv		
41) Tetrahydrofuran	3.059	42	15641m	2.258	ppbv		
42) Bromodichloromethane	4.489	83	37615	2.096	ppbv	#	99
43) Methyl Methacrylate	4.884	69	14610m	2.059	ppbv		
44) 2,2,4-Trimethylpentane	4.638	57	65967	2.142	ppbv		99
45) t-1,3-Dichloropropene	6.409	75	18560m	1.987	ppbv		

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050125\
Data File : VL042459.D
Acq On : 01 May 2025 09:37
Operator : SY/MD
Sample : VSTDICC002
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 02 01:40:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Fri May 02 01:37:48 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) cis-1,3-Dichloropropene	5.593	75	22184	2.000	ppbv		93
47) 1,1,2-Trichloroethane	6.587	97	17307m	2.212	ppbv		
48) Dibromochloromethane	7.386	129	27174	2.057	ppbv		99
49) Bromoform	9.483	173	23126	2.088	ppbv		98
50) 4-Methyl-2-Pentanone	5.758	43	39798	2.155	ppbv		99
51) 2-Hexanone	7.441	43	32196	2.177	ppbv	#	97
52) Tetrachloroethene	8.224	164	13670	1.885	ppbv		93
53) Toluene	6.930	91	41392	2.052	ppbv		97
54) 1,2-Dibromoethane	7.652	107	24650	2.049	ppbv		99
56) 1,1,1,2-Tetrachloroethane	8.927	131	20822	2.019	ppbv		95
57) Chlorobenzene	8.920	112	36187	2.062	ppbv	#	88
58) Ethyl Benzene	9.354	91	61177	2.096	ppbv		91
59) m/p-Xylene	9.551	91	105185m	4.299	ppbv		
60) o-Xylene	9.963	91	53051	2.169	ppbv		99
61) Styrene	9.872	104	18776	2.054	ppbv		97
62) Isopropylbenzene	10.539	105	75626	2.140	ppbv		99
63) 1,1,2,2-Tetrachloroethane	9.963	83	34562	2.178	ppbv		98
64) n-propylbenzene	10.989	120	19160	2.226	ppbv		94
65) tert-Butylbenzene	11.532	119	70813	2.246	ppbv		97
66) Benzyl Chloride	11.613	91	6794	1.864	ppbv		97
67) sec-Butylbenzene	11.769	105	101458	2.264	ppbv		99
69) p-Isopropyltoluene	11.924	119	84026	2.226	ppbv		98
70) n-Butylbenzene	12.280	91	89400	2.291	ppbv		97
71) 2-Chlorotoluene	10.901	91	59271	2.139	ppbv		97
72) 4-Ethyltoluene	11.124	105	63833	2.210	ppbv		98
73) 1,3,5-Trimethylbenzene	11.205	105	56516	2.225	ppbv		94
74) 1,2,4-Trimethylbenzene	11.536	105	72485	2.359	ppbv		94
75) 1,3-Dichlorobenzene	11.607	146	36885	2.156	ppbv		97
76) 1,4-Dichlorobenzene	11.671	146	33728	2.083	ppbv		94
77) 1,2-Dichlorobenzene	11.947	146	36078	2.154	ppbv		99
78) Hexachloro-1,3-Butadiene	13.882	225	37360	2.234	ppbv		99
79) Naphthalene	13.513	128	75248	2.920	ppbv		96
80) Naphthalene,2-methyl-	14.458	142	54922	2.857	ppbv		96
81) 1,2,4-Trichlorobenzene	13.442	180	33063	2.396	ppbv		95

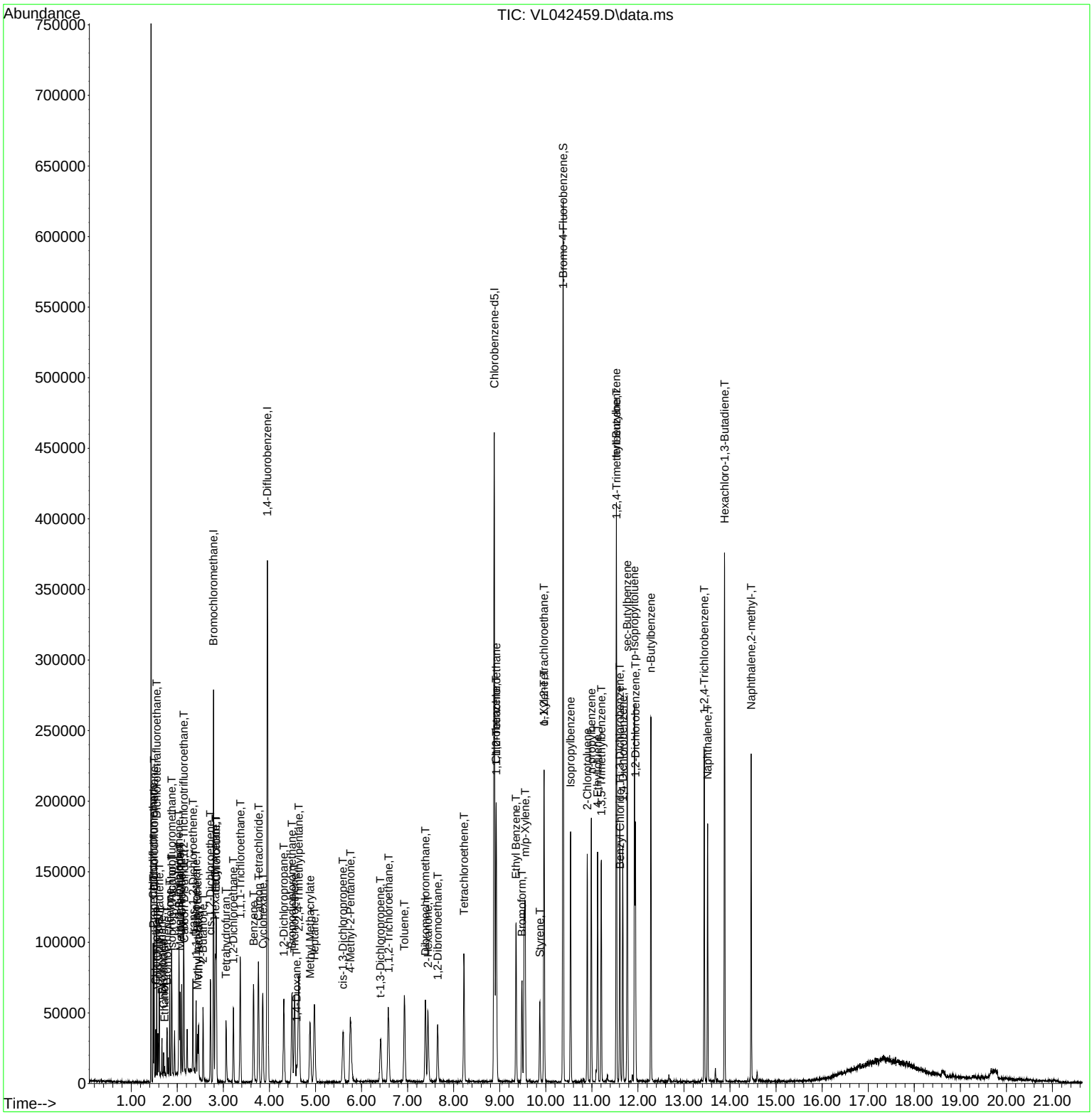
(#) = qualifier out of range (m) = manual integration (+) = signals summed

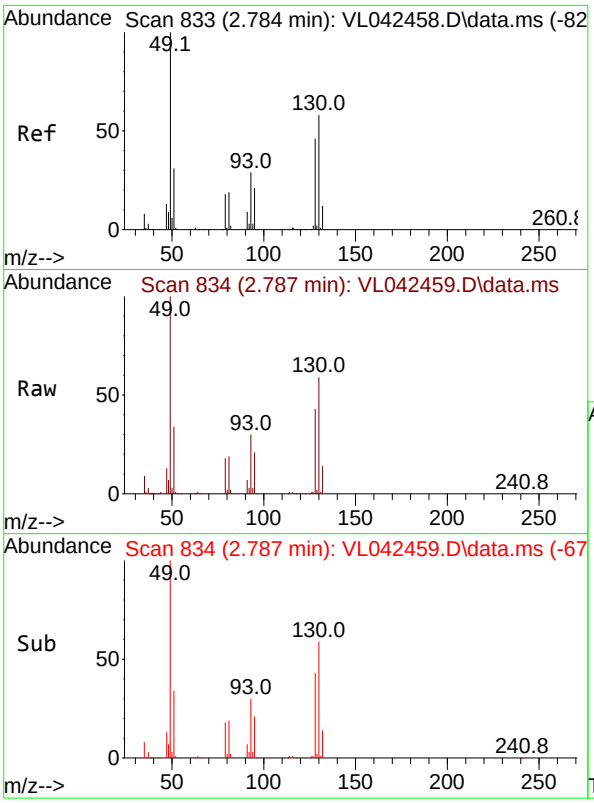
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050125\
Data File : VL042459.D
Acq On : 01 May 2025 09:37
Operator : SY/MD
Sample : VSTDICC002
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 02 01:40:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri May 02 01:37:48 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

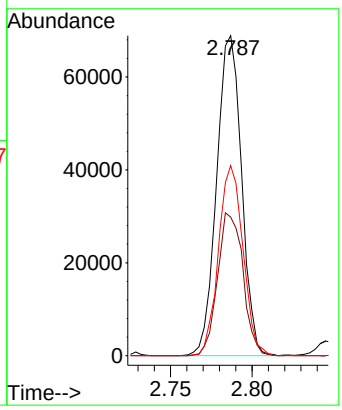




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042459.D
Acq: 01 May 2025 09:37

Tgt Ion: 49 Resp: 7322

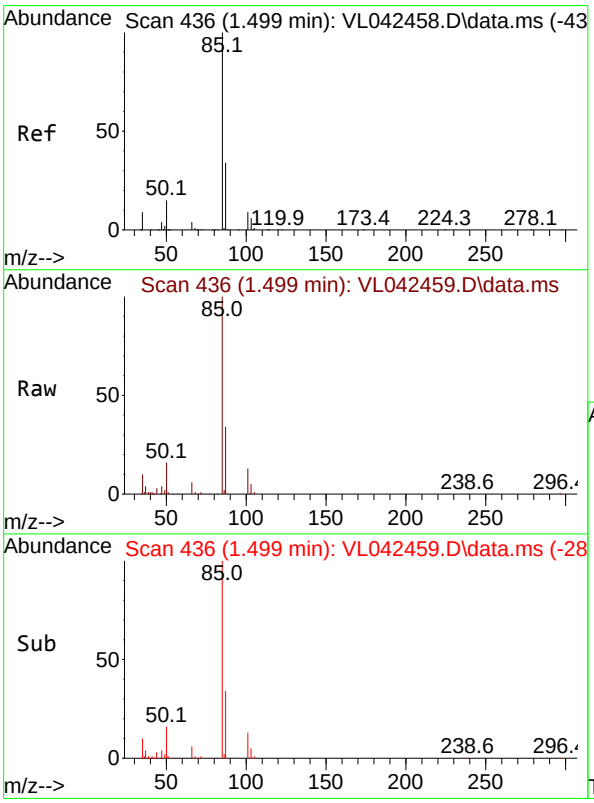
Ion	Ratio	Lower	Upper
49	100		
128	45.4	23.3	69.9
130	58.4	29.5	88.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

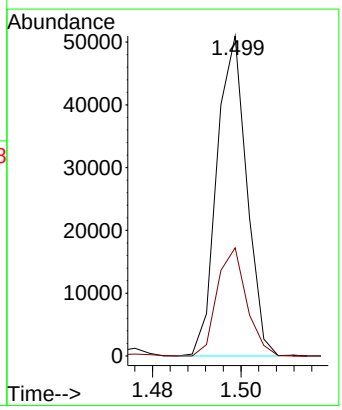
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

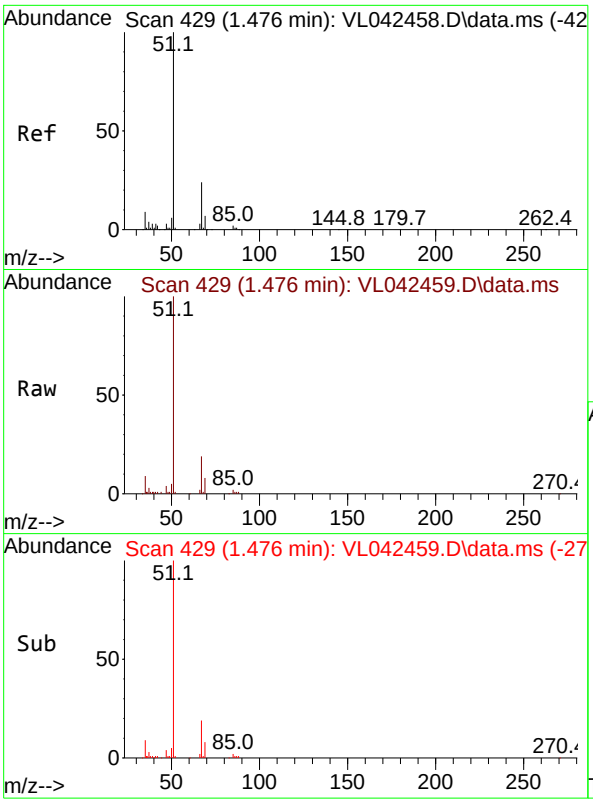


#2
Dichlorodifluoromethane
Concen: 1.969 ppbv
RT: 1.499 min Scan# 436
Delta R.T. -0.000 min
Lab File: VL042459.D
Acq: 01 May 2025 09:37

Tgt Ion: 85 Resp: 23859

Ion	Ratio	Lower	Upper
85	100		
87	33.8	26.9	40.3

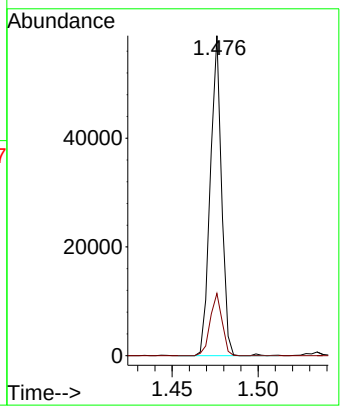




#3
Chlorodifluoromethane
Concen: 2.081 ppbv
RT: 1.476 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042459.D
Acq: 01 May 2025 09:37

Tgt Ion: 51 Resp: 2665

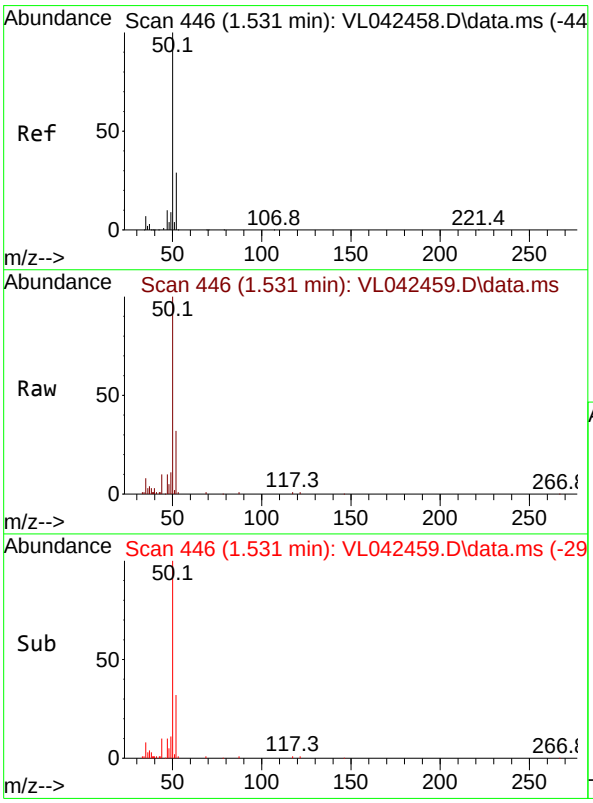
Ion	Ratio	Lower	Upper
51	100		
67	20.6	18.4	27.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

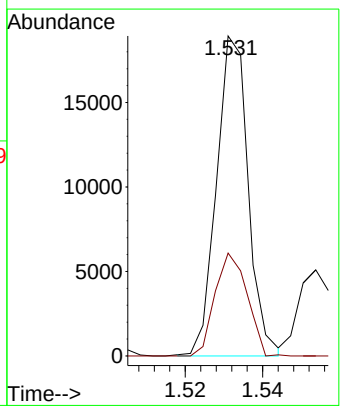
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

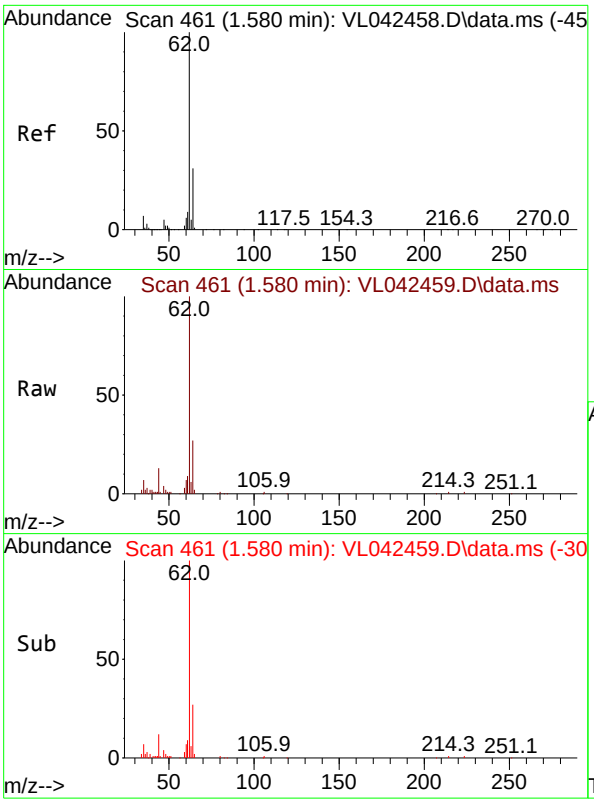


#4
Chloromethane
Concen: 2.123 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042459.D
Acq: 01 May 2025 09:37

Tgt Ion: 50 Resp: 10751

Ion	Ratio	Lower	Upper
50	100		
52	32.3	23.5	35.3

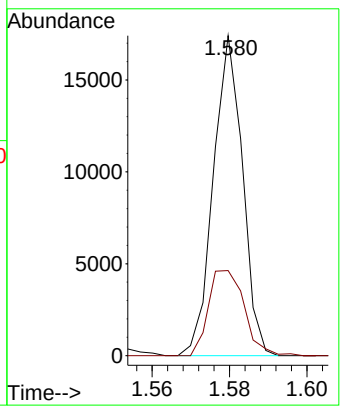




#5
Vinyl Chloride
Concen: 1.789 ppbv
RT: 1.580 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042459.D
Acq: 01 May 2025 09:37

Tgt Ion: 62 Resp: 912

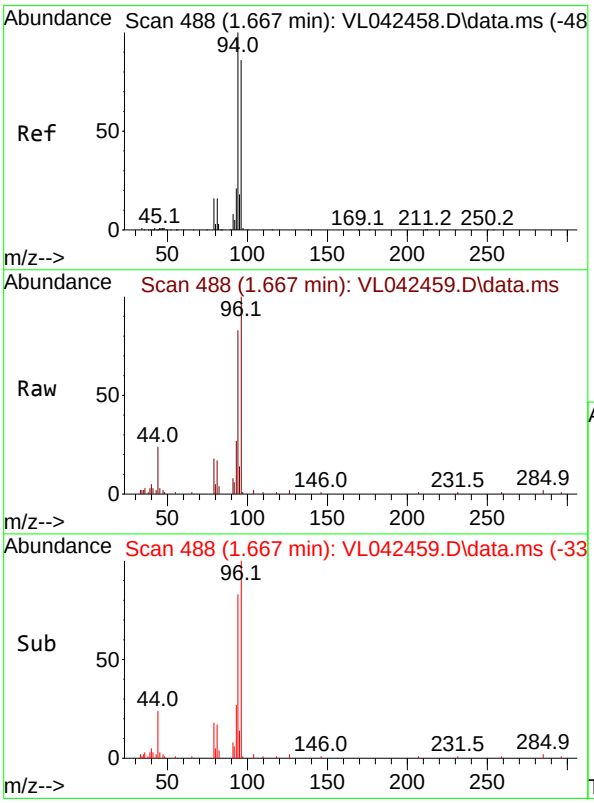
Ion	Ratio	Lower	Upper
62	100		
64	26.6	24.9	37.3



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

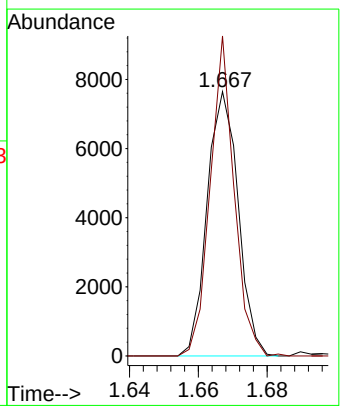
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

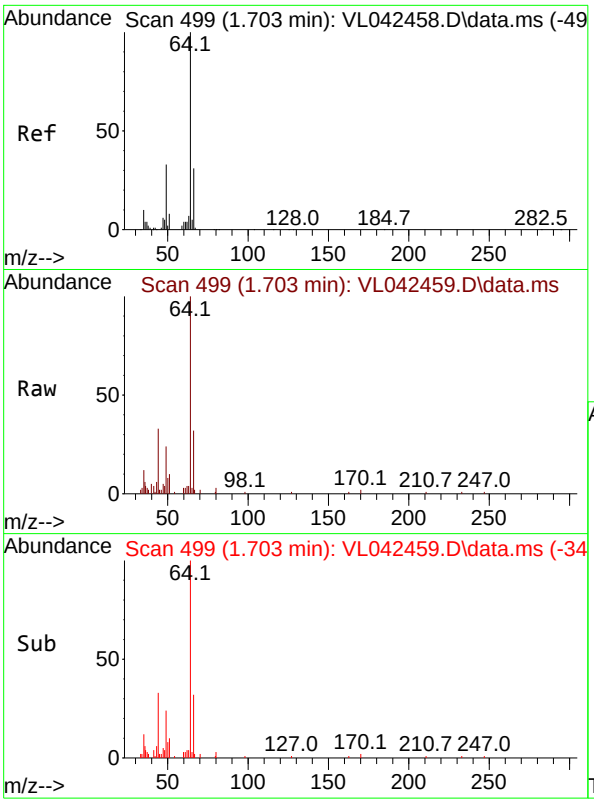


#6
Bromomethane
Concen: 1.990 ppbv
RT: 1.667 min Scan# 488
Delta R.T. 0.000 min
Lab File: VL042459.D
Acq: 01 May 2025 09:37

Tgt Ion: 94 Resp: 4793

Ion	Ratio	Lower	Upper
94	100		
96	121.0	68.8	103.2#

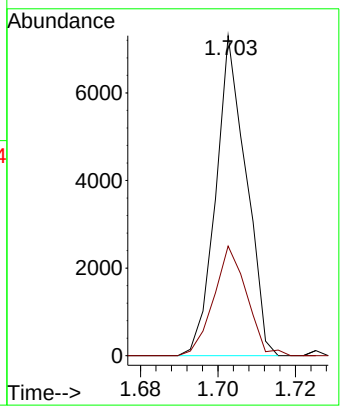




#7
Chloroethane
Concen: 2.110 ppbv
RT: 1.703 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042459.D
Acq: 01 May 2025 09:37

Tgt Ion: 64 Resp: 397

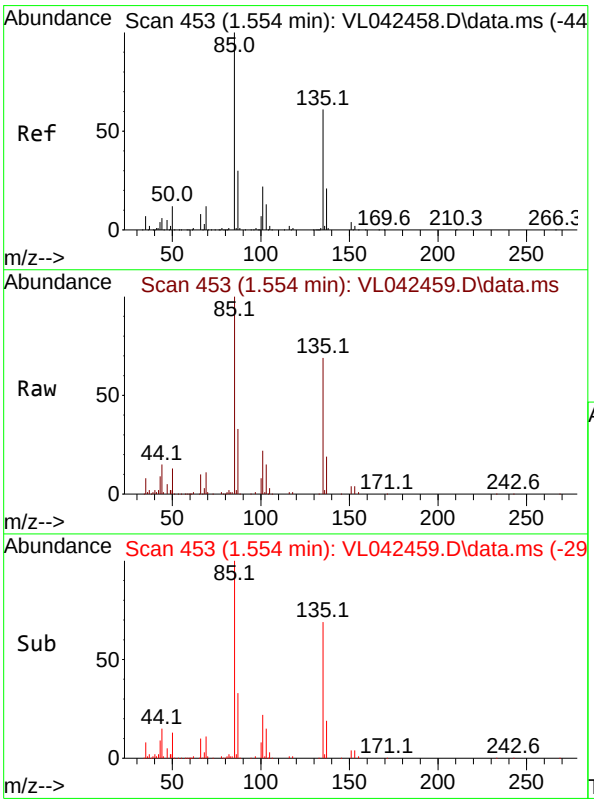
Ion	Ratio	Lower	Upper
64	100		
66	34.3	25.0	37.4



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

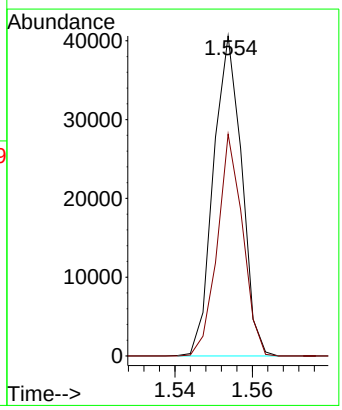
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

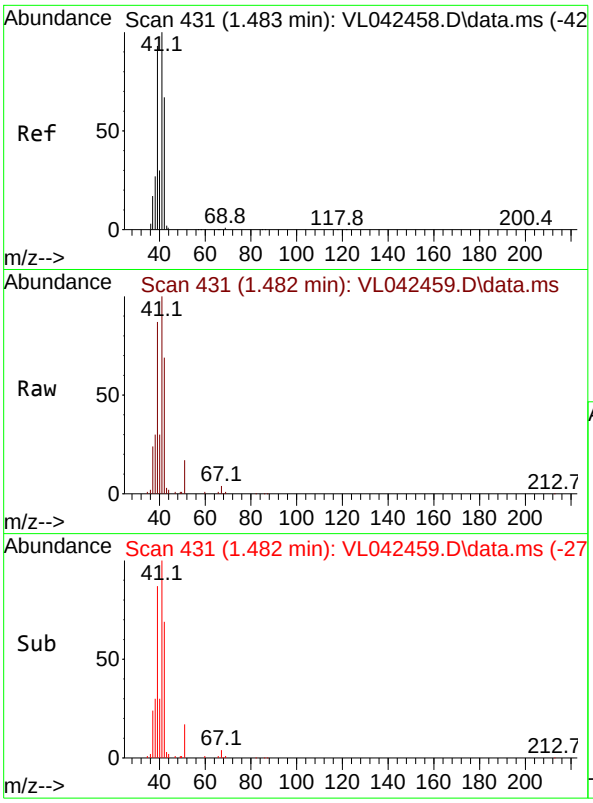


#8
Dichlorotetrafluoroethane
Concen: 2.055 ppbv
RT: 1.554 min Scan# 453
Delta R.T. 0.000 min
Lab File: VL042459.D
Acq: 01 May 2025 09:37

Tgt Ion: 85 Resp: 20529

Ion	Ratio	Lower	Upper
85	100		
135	62.6	49.8	74.8

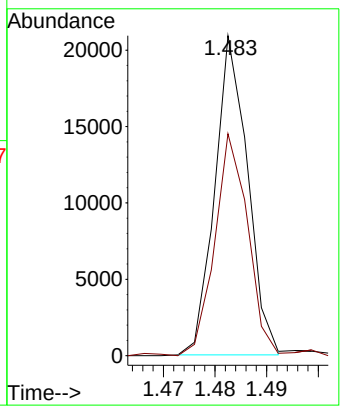




#9
Propene
Concen: 2.204 ppbv
RT: 1.482 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042459.D
Acq: 01 May 2025 09:37

Tgt Ion: 41 Resp: 923

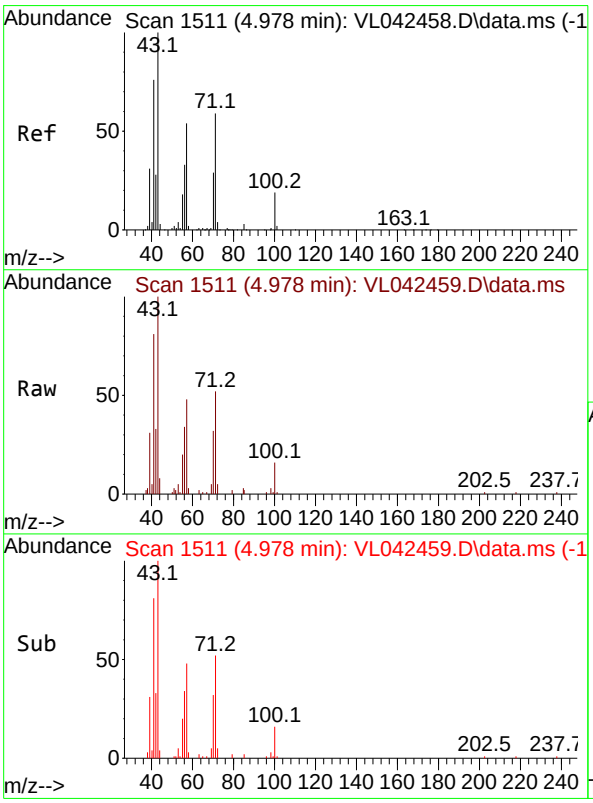
Ion	Ratio	Lower	Upper
41	100		
42	72.2	54.3	81.5



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

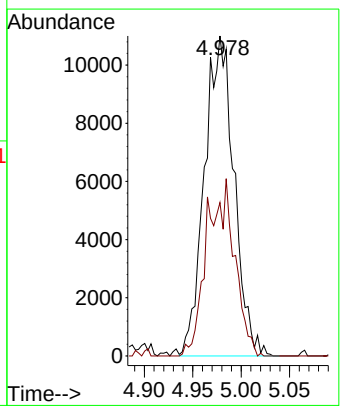
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

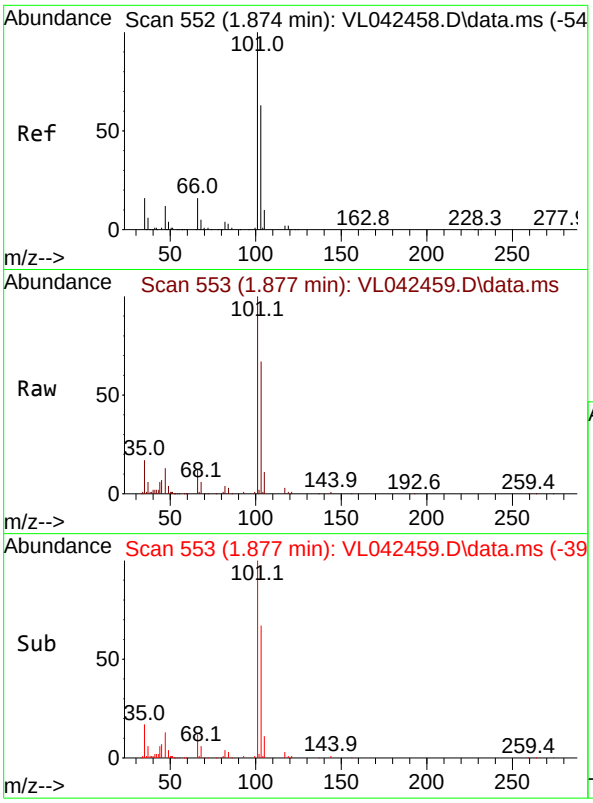


#10
Heptane
Concen: 2.146 ppbv m
RT: 4.978 min Scan# 1511
Delta R.T. -0.000 min
Lab File: VL042459.D
Acq: 01 May 2025 09:37

Tgt Ion: 43 Resp: 23329

Ion	Ratio	Lower	Upper
43	100		
57	52.3	41.8	62.8

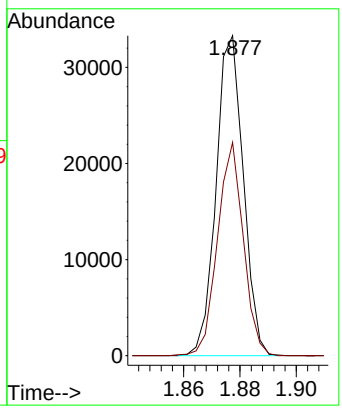




#11
Trichlorofluoromethane
Concen: 2.070 ppbv
RT: 1.877 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042459.D
Acq: 01 May 2025 09:37

Tgt Ion:101 Resp: 2237

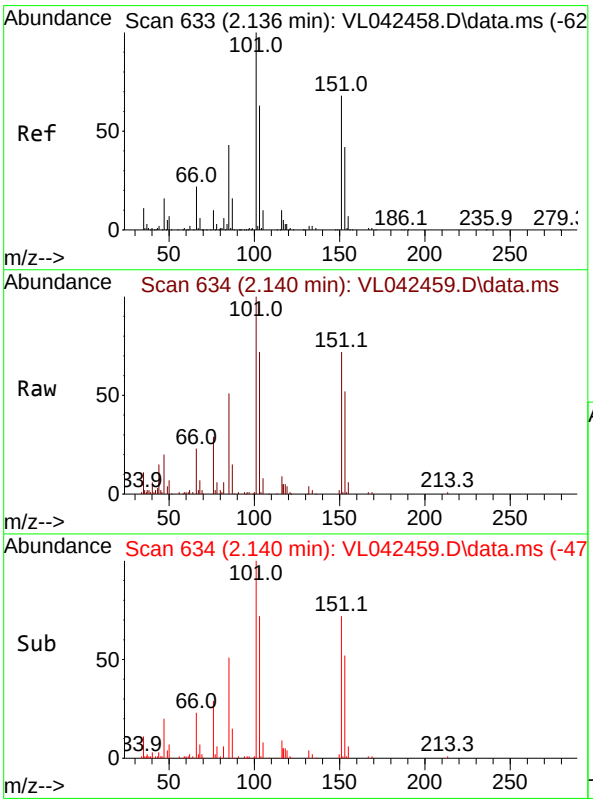
Ion	Ratio	Lower	Upper
101	100		
103	66.6	50.6	76.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

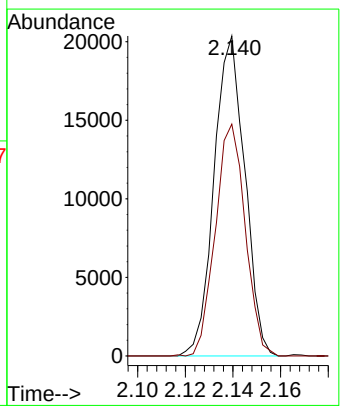
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

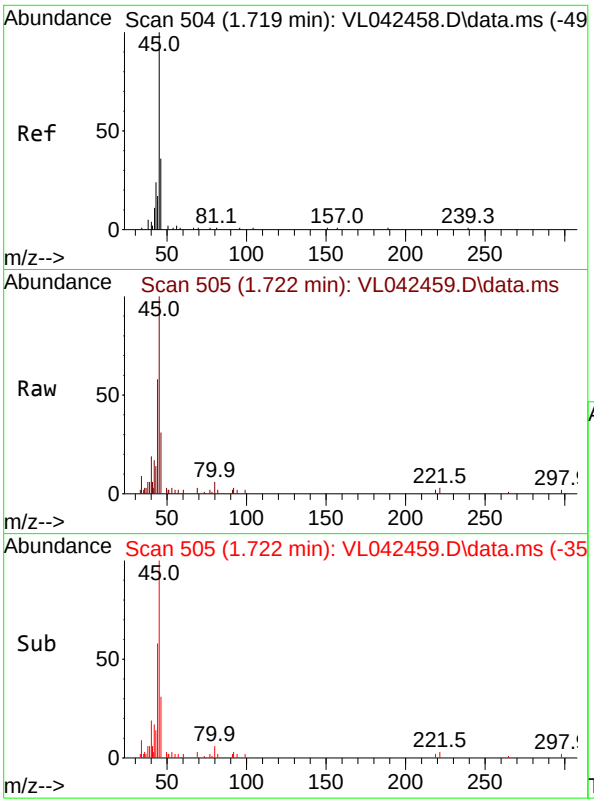


#12
1,1,2-Trichlorotrifluoroethane
Concen: 2.042 ppbv
RT: 2.140 min Scan# 634
Delta R.T. 0.003 min
Lab File: VL042459.D
Acq: 01 May 2025 09:37

Tgt Ion:101 Resp: 18230

Ion	Ratio	Lower	Upper
101	100		
151	70.4	54.6	82.0

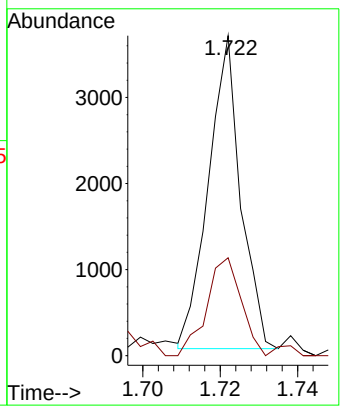




#13
Ethanol
Concen: 2.468 ppbv
RT: 1.722 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042459.D
Acq: 01 May 2025 09:37

Tgt Ion: 45 Resp: 209

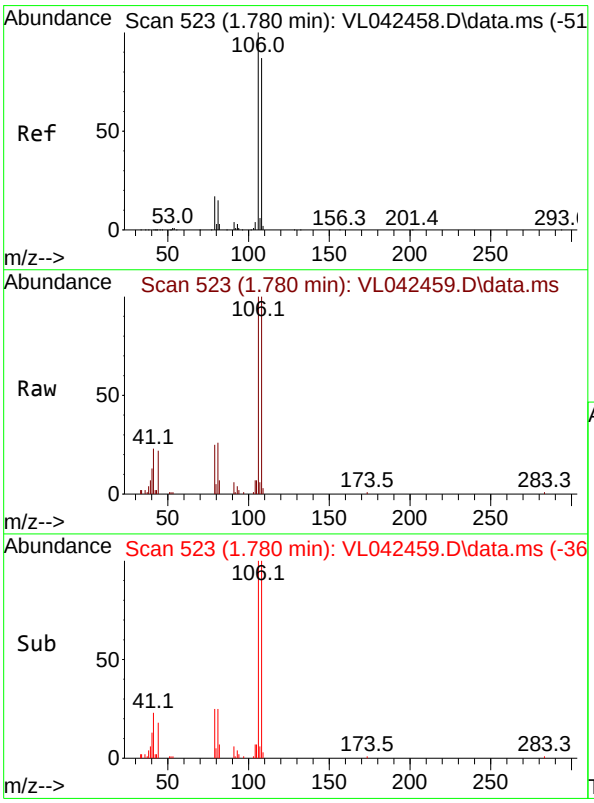
Ion	Ratio	Lower	Upper
45	100		
46	41.9	15.3	61.1



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

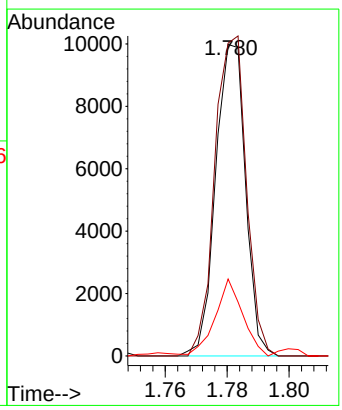
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

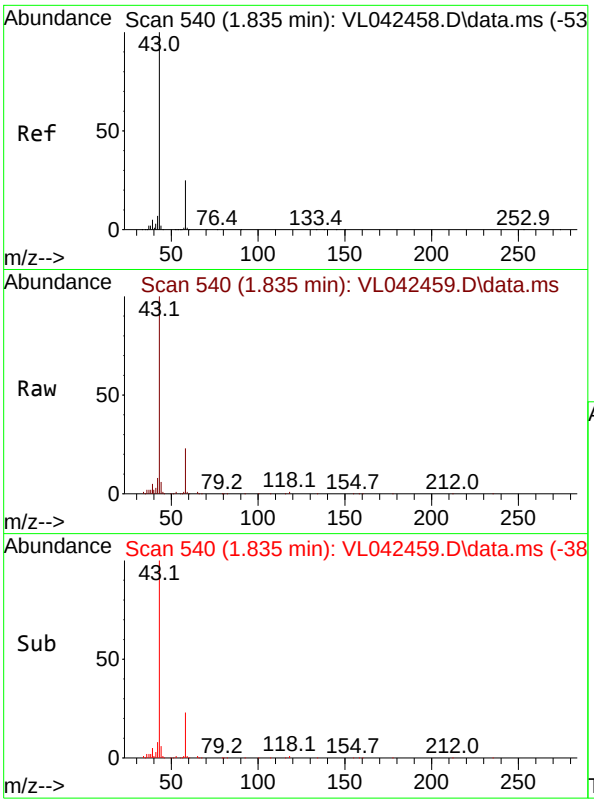


#14
Bromoethene
Concen: 2.029 ppbv
RT: 1.780 min Scan# 523
Delta R.T. -0.000 min
Lab File: VL042459.D
Acq: 01 May 2025 09:37

Tgt Ion:108 Resp: 6686

Ion	Ratio	Lower	Upper
108	100		
106	108.2	88.8	133.2
79	25.7	17.1	25.7#

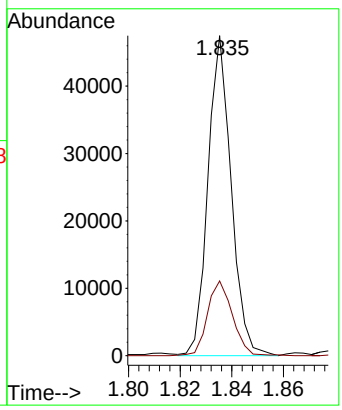




#15
Acetone
Concen: 2.215 ppbv
RT: 1.835 min Scan# 54
Delta R.T. -0.000 min
Lab File: VL042459.D
Acq: 01 May 2025 09:37

Tgt Ion: 43 Resp: 2960

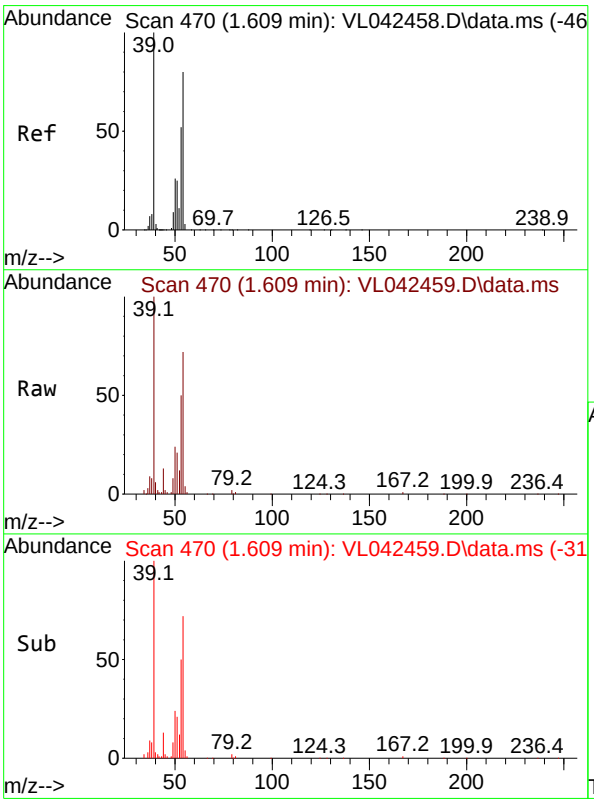
Ion	Ratio	Lower	Upper
43	100		
58	25.1	19.8	29.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

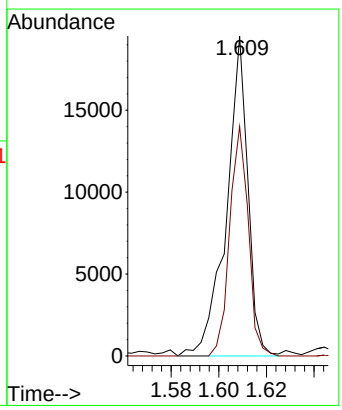
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

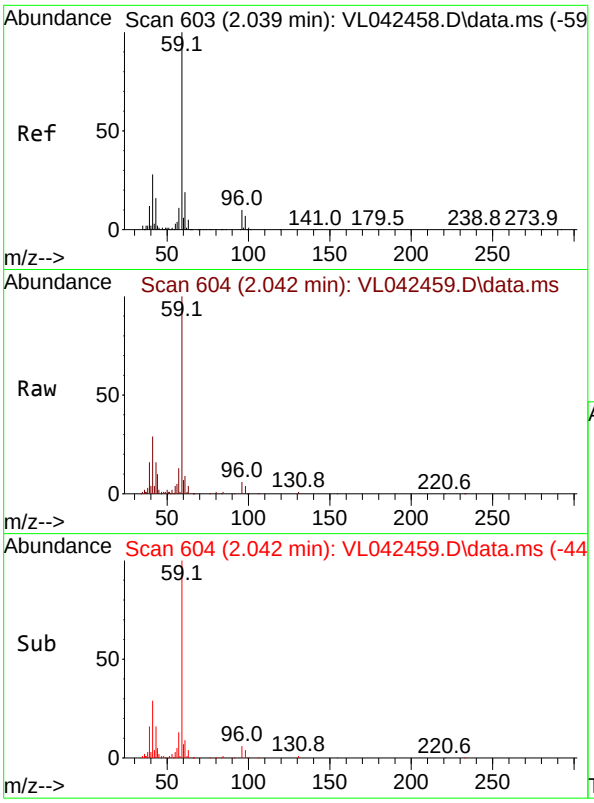


#16
1,3-Butadiene
Concen: 2.077 ppbv
RT: 1.609 min Scan# 470
Delta R.T. -0.000 min
Lab File: VL042459.D
Acq: 01 May 2025 09:37

Tgt Ion: 39 Resp: 12245

Ion	Ratio	Lower	Upper
39	100		
54	62.1	55.2	82.8

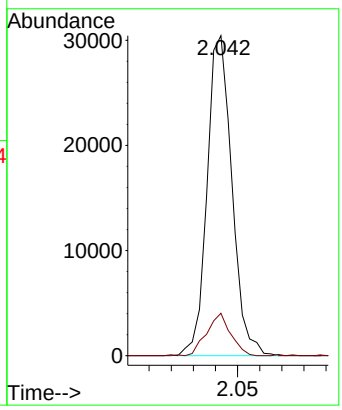




#17
tert-Butyl alcohol
Concen: 2.014 ppbv
RT: 2.042 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL042459.D
Acq: 01 May 2025 09:37

Tgt Ion: 59 Resp: 2372

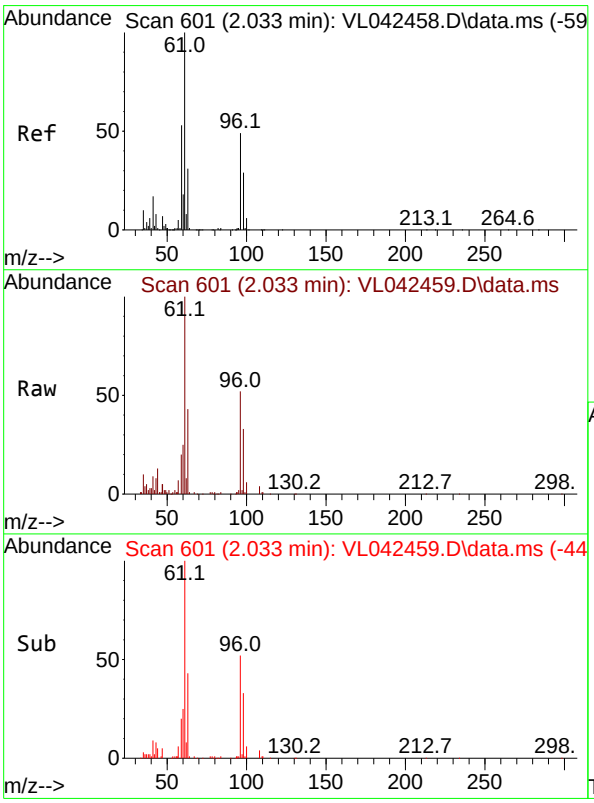
Ion	Ratio	Lower	Upper
59	100		
57	12.9	8.3	12.5#



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

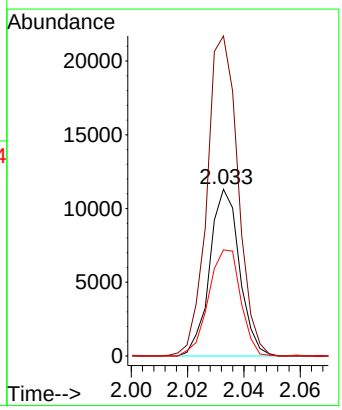
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

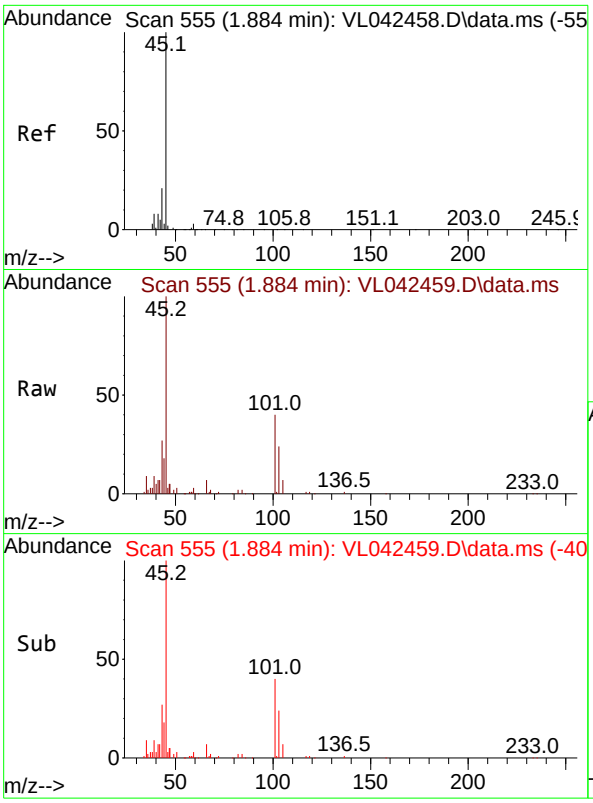


#18
1,1-Dichloroethene
Concen: 1.992 ppbv
RT: 2.033 min Scan# 601
Delta R.T. -0.000 min
Lab File: VL042459.D
Acq: 01 May 2025 09:37

Tgt Ion: 96 Resp: 8303

Ion	Ratio	Lower	Upper
96	100		
61	191.9	164.9	247.3
98	63.6	48.2	72.2





#19
Isopropyl Alcohol
Concen: 1.931 ppbv
RT: 1.884 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL042459.D
Acq: 01 May 2025 09:37

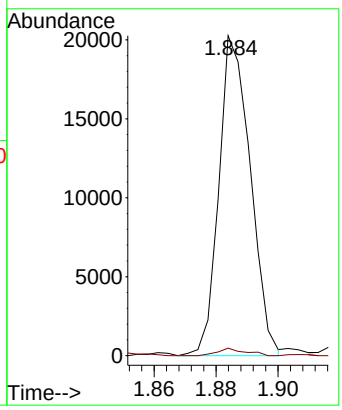
Tgt Ion: 45 Resp: 1428

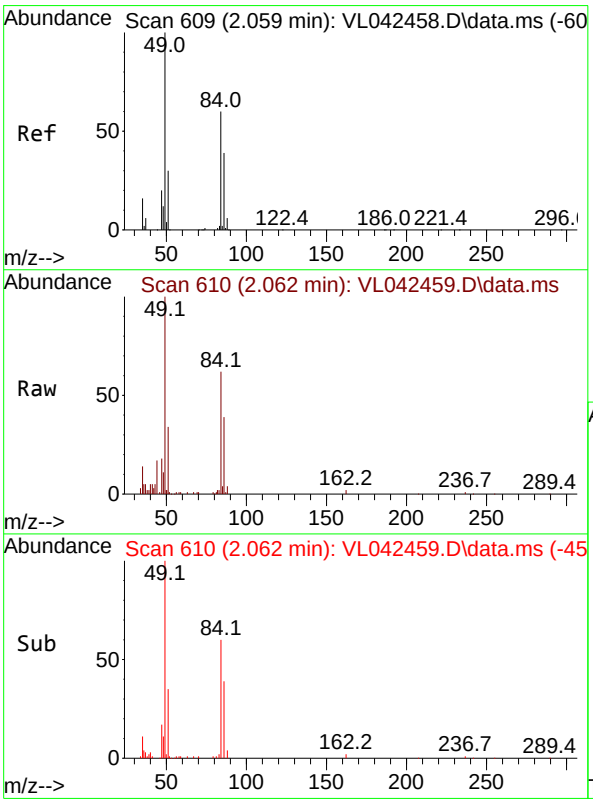
Ion	Ratio	Lower	Upper
45	100		
58	2.3	1.6	2.4

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

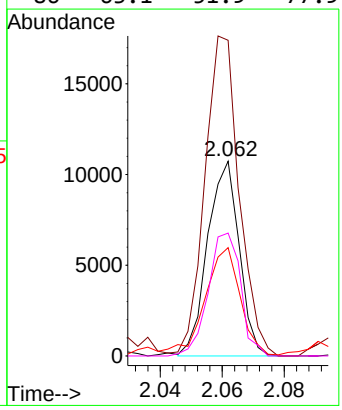


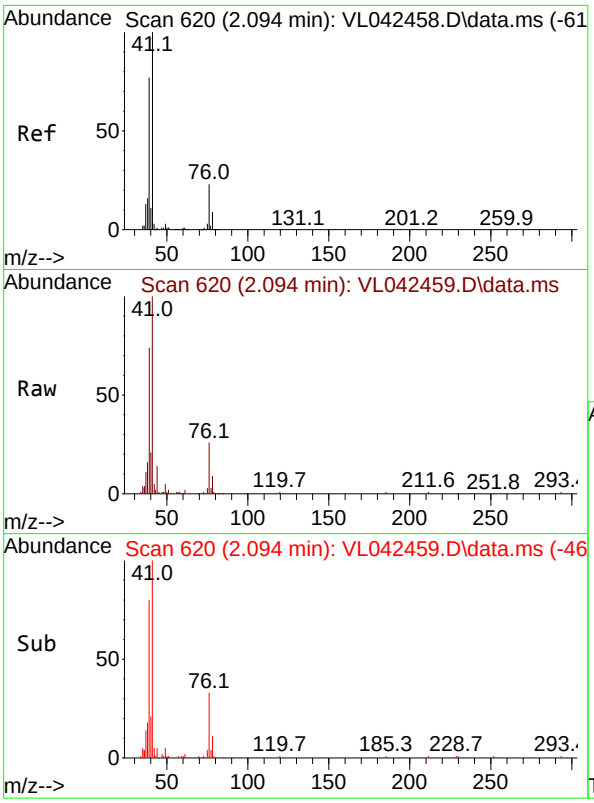


#20
Methylene Chloride
Concen: 1.889 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.003 min
Lab File: VL042459.D
Acq: 01 May 2025 09:37

Tgt Ion: 84 Resp: 7590

Ion	Ratio	Lower	Upper
84	100		
49	162.1	133.9	200.9
51	55.0	41.0	61.6
86	63.1	51.9	77.9

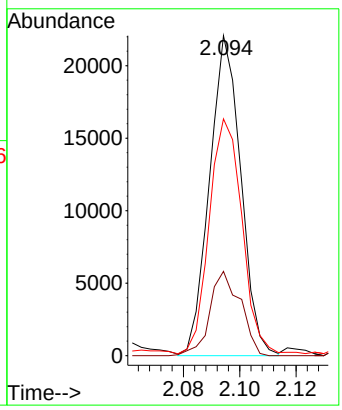




#21
Allyl Chloride
Concen: 1.983 ppbv
RT: 2.094 min Scan# 6
Delta R.T. -0.000 min
Lab File: VL042459.D
Acq: 01 May 2025 09:37

Tgt Ion: 41 Resp: 1705

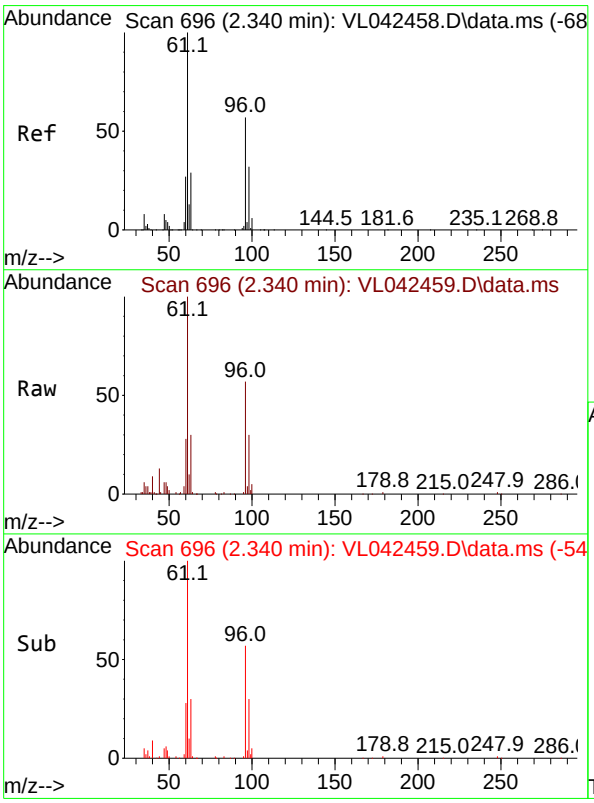
Ion	Ratio	Lower	Upper
41	100		
76	25.8	19.6	29.4
39	79.8	61.0	91.4



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

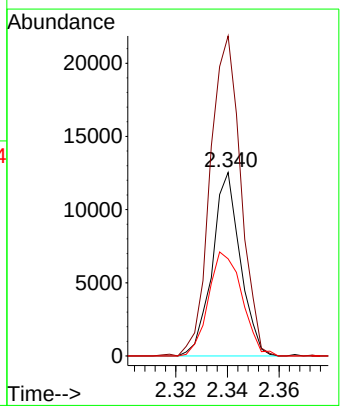
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

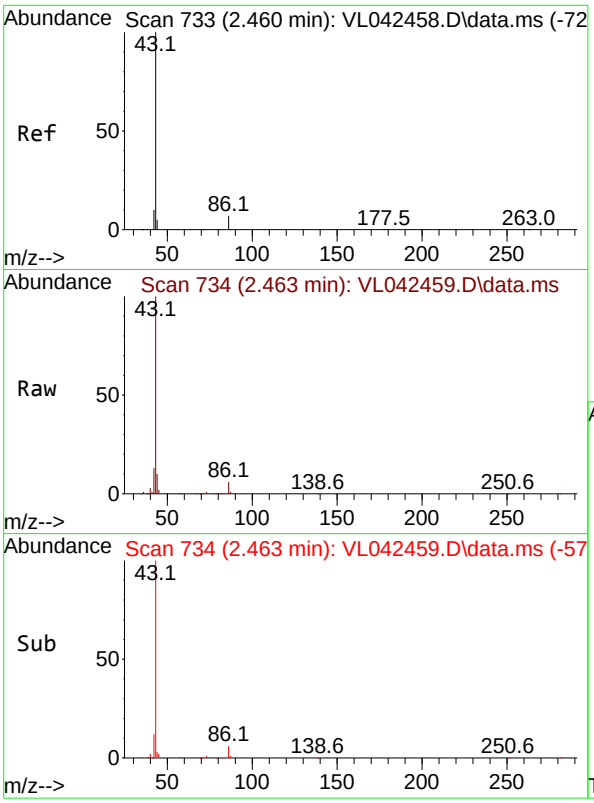


#22
trans-1,2-Dichloroethene
Concen: 1.940 ppbv
RT: 2.340 min Scan# 696
Delta R.T. -0.000 min
Lab File: VL042459.D
Acq: 01 May 2025 09:37

Tgt Ion: 96 Resp: 9444

Ion	Ratio	Lower	Upper
96	100		
61	174.3	141.8	212.6
98	52.9	45.0	67.6

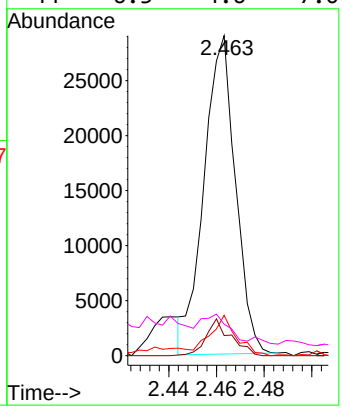




#23
Vinyl Acetate
Concen: 2.128 ppbv
RT: 2.463 min Scan# 7
Delta R.T. 0.003 min
Lab File: VL042459.D
Acq: 01 May 2025 09:37

Tgt Ion: 43 Resp: 2650

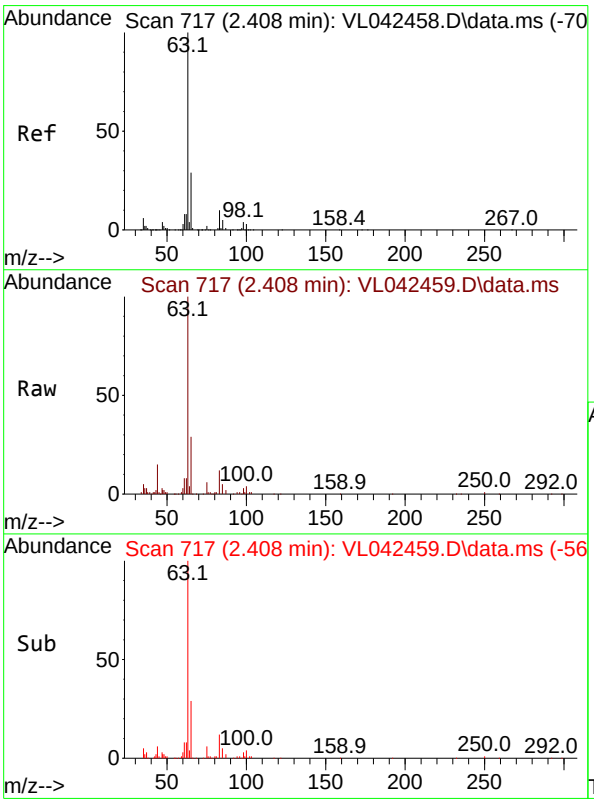
Ion	Ratio	Lower	Upper
43	100		
86	6.4	5.5	8.3
42	11.6	8.3	12.5
44	6.3	4.6	7.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

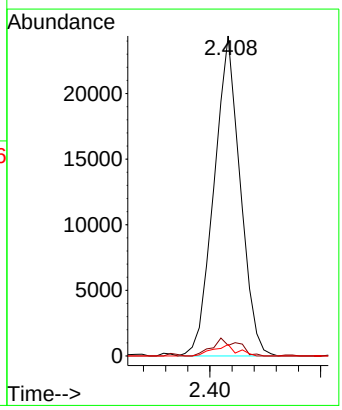
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

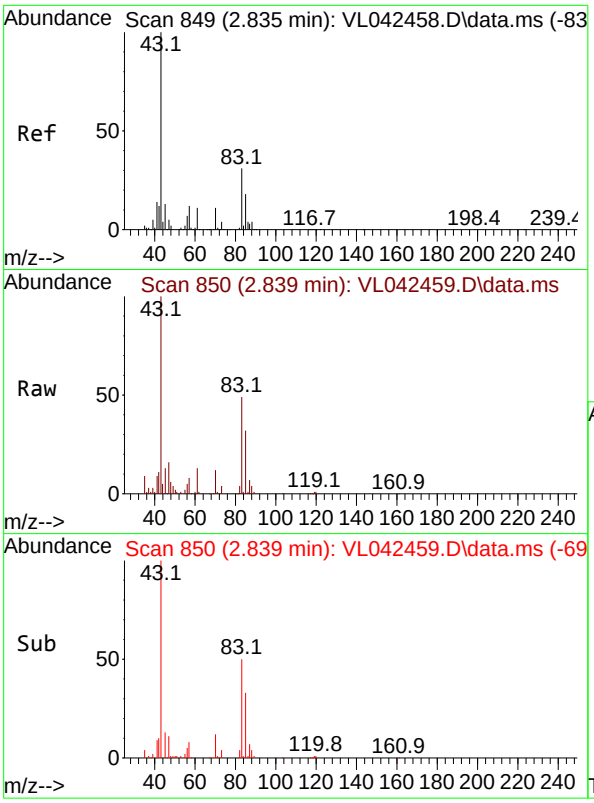


#24
1,1-Dichloroethane
Concen: 2.016 ppbv
RT: 2.408 min Scan# 717
Delta R.T. -0.000 min
Lab File: VL042459.D
Acq: 01 May 2025 09:37

Tgt Ion: 63 Resp: 20027

Ion	Ratio	Lower	Upper
63	100		
98	3.3	1.8	5.5
100	3.6	1.4	4.2

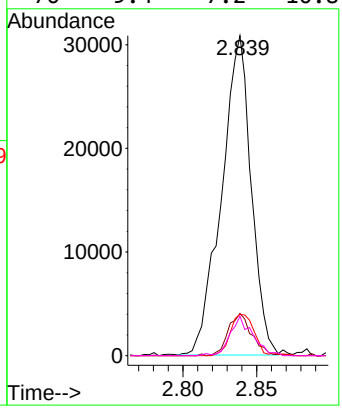




#25
Ethyl Acetate
Concen: 2.015 ppbv
RT: 2.839 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042459.D
Acq: 01 May 2025 09:37

Tgt Ion: 43 Resp: 4312

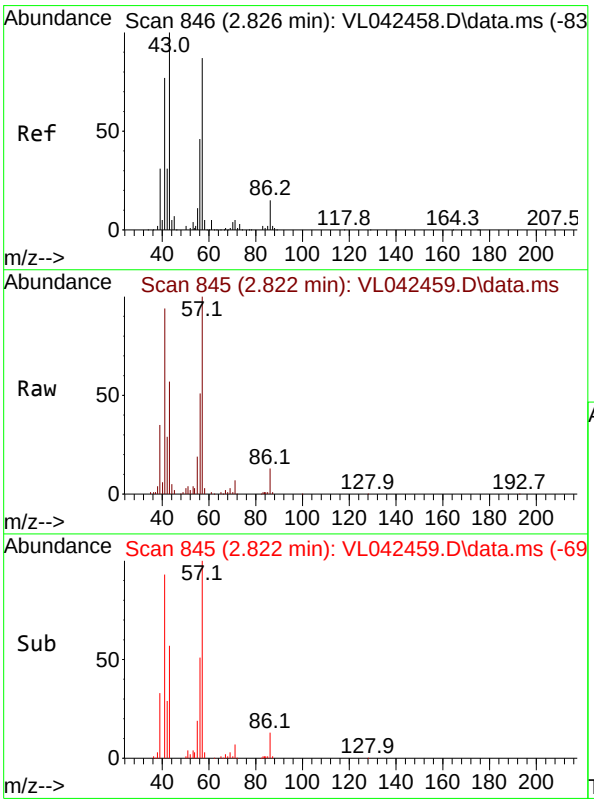
Ion	Ratio	Lower	Upper
43	100		
45	10.7	7.8	11.6
61	10.6	7.2	10.8
70	9.4	7.2	10.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

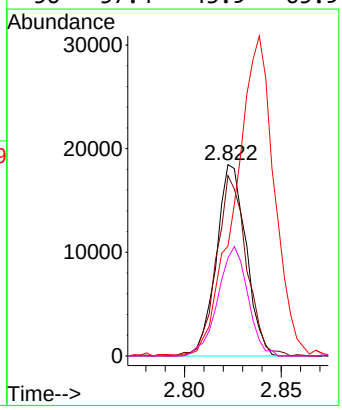
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

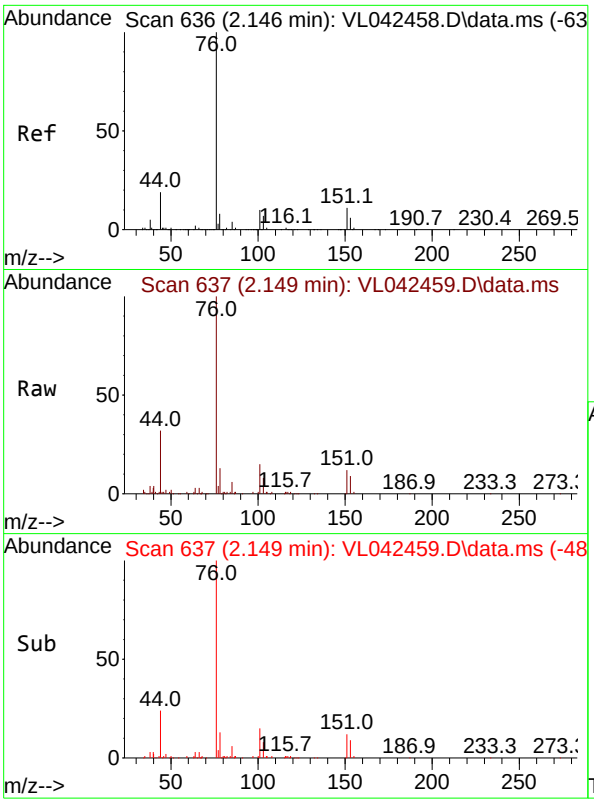


#26
Hexane
Concen: 2.112 ppbv
RT: 2.822 min Scan# 845
Delta R.T. -0.003 min
Lab File: VL042459.D
Acq: 01 May 2025 09:37

Tgt Ion: 57 Resp: 19691

Ion	Ratio	Lower	Upper
57	100		
41	95.1	77.8	116.8
43	223.3	187.0	280.6
56	57.4	43.9	65.9

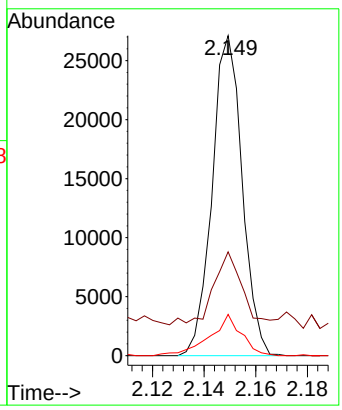




#27
Carbon Disulfide
Concen: 2.017 ppbv
RT: 2.149 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL042459.D
Acq: 01 May 2025 09:37

Tgt Ion: 76 Resp: 2194

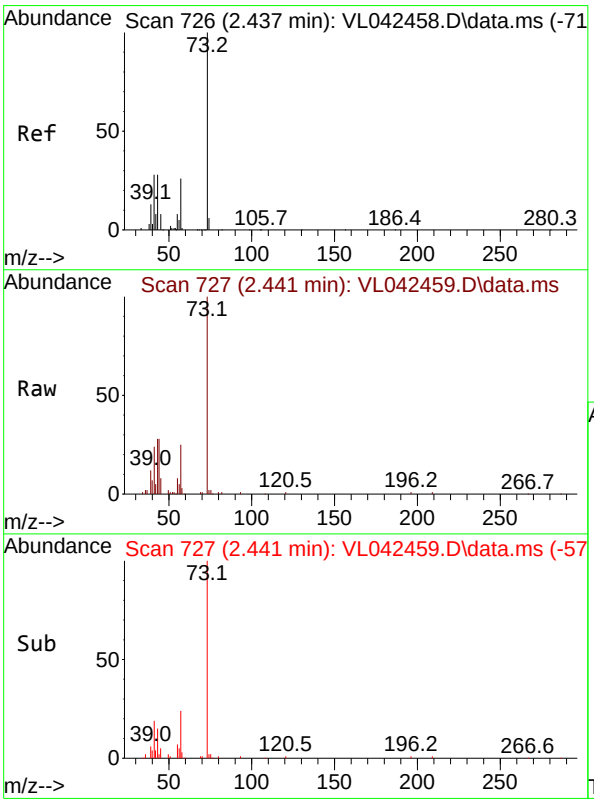
Ion	Ratio	Lower	Upper
76	100		
44	66.1	21.0	31.6#
78	13.6	8.6	13.0#



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

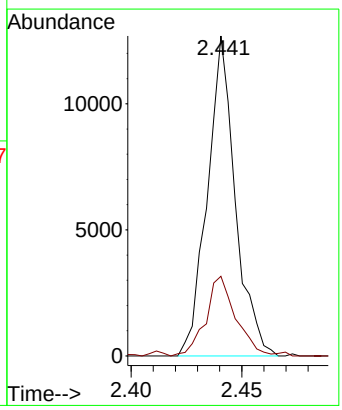
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

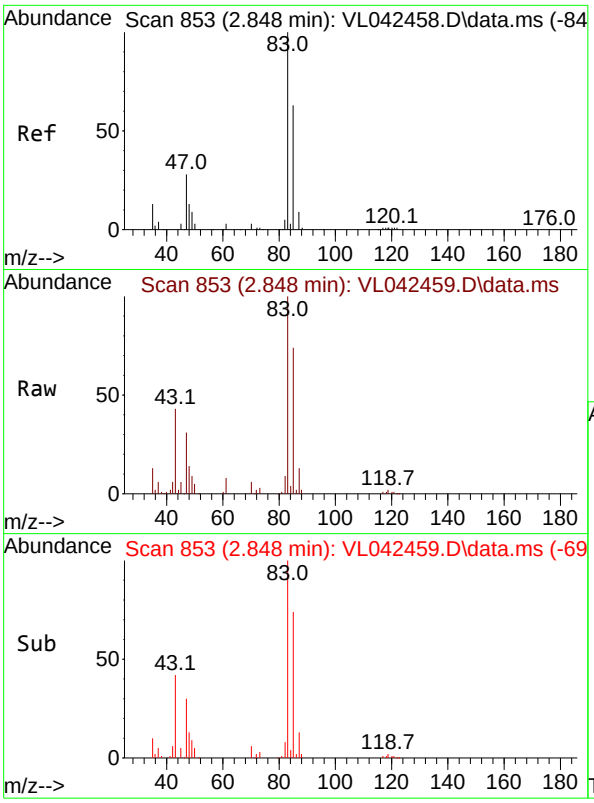


#28
Methyl tert-Butyl Ether
Concen: 1.985 ppbv
RT: 2.441 min Scan# 727
Delta R.T. 0.003 min
Lab File: VL042459.D
Acq: 01 May 2025 09:37

Tgt Ion: 73 Resp: 11119

Ion	Ratio	Lower	Upper
73	100		
57	28.0	19.9	29.9

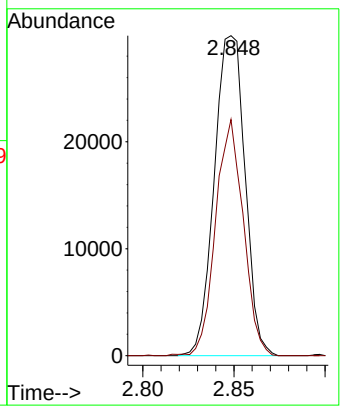




#29
Chloroform
Concen: 2.010 ppbv
RT: 2.848 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL042459.D
Acq: 01 May 2025 09:37

Tgt Ion: 83 Resp: 3512

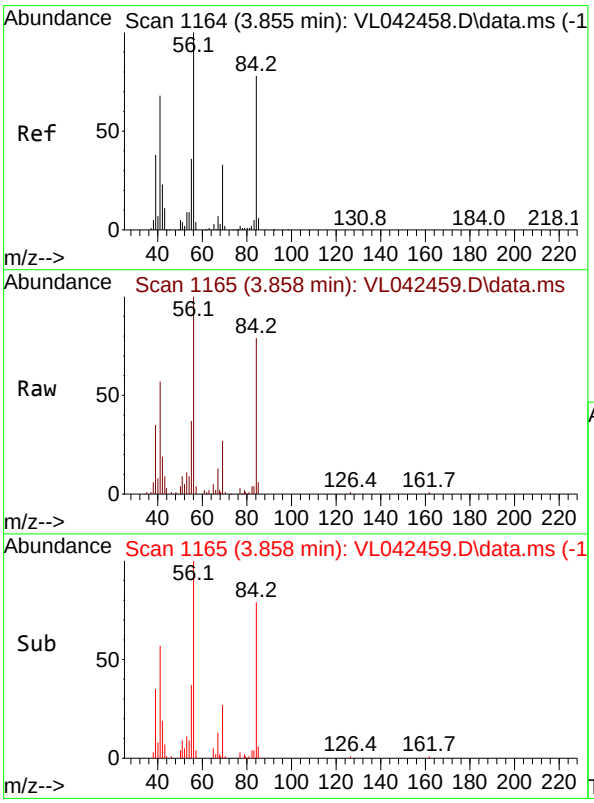
Ion	Ratio	Lower	Upper
83	100		
85	73.8	50.4	75.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

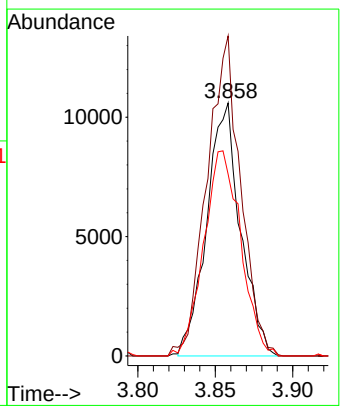
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

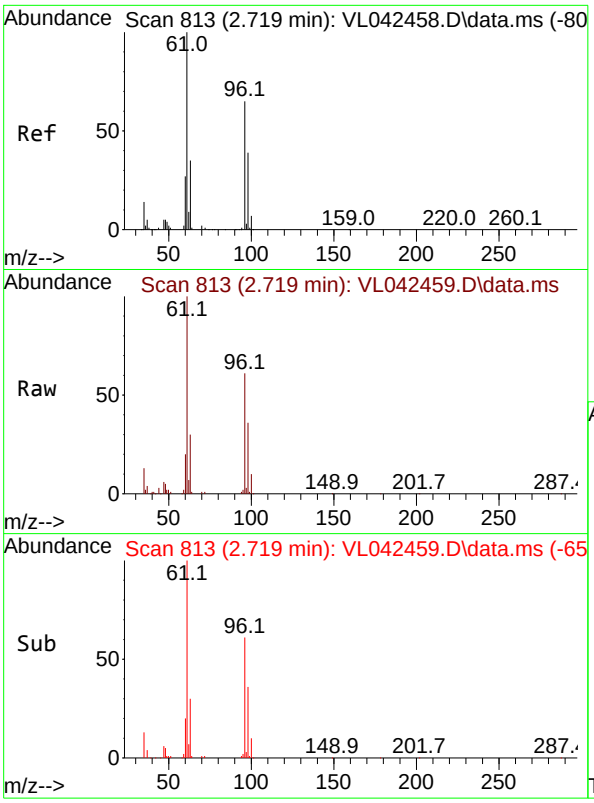


#30
Cyclohexane
Concen: 2.060 ppbv
RT: 3.858 min Scan# 1165
Delta R.T. 0.003 min
Lab File: VL042459.D
Acq: 01 May 2025 09:37

Tgt Ion: 84 Resp: 16056

Ion	Ratio	Lower	Upper
84	100		
56	126.5	98.1	147.1
41	88.7	65.8	98.8

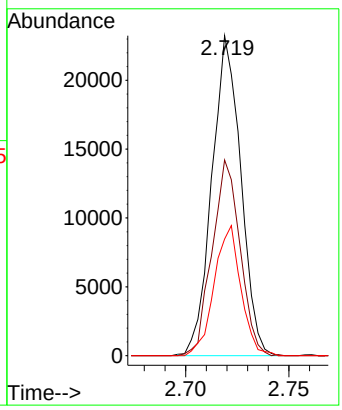




#31
cis-1,2-Dichloroethene
Concen: 2.079 ppbv
RT: 2.719 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL042459.D
Acq: 01 May 2025 09:37

Tgt Ion: 61 Resp: 2261

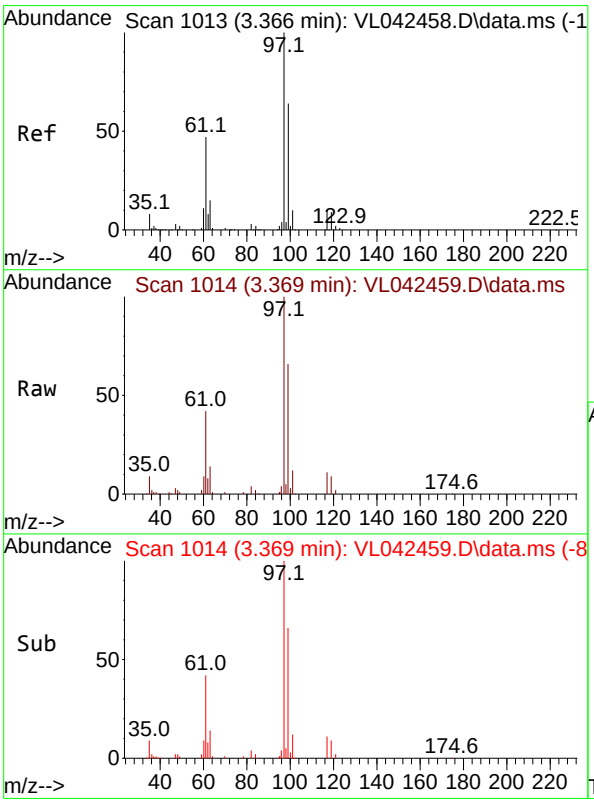
Ion	Ratio	Lower	Upper
61	100		
96	61.1	52.0	78.0
98	36.5	31.0	46.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

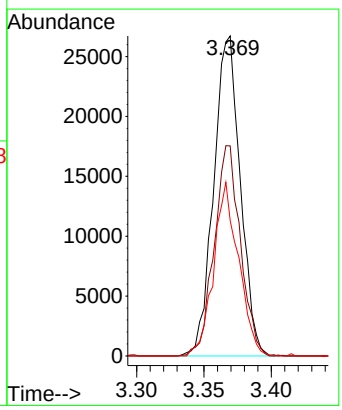
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

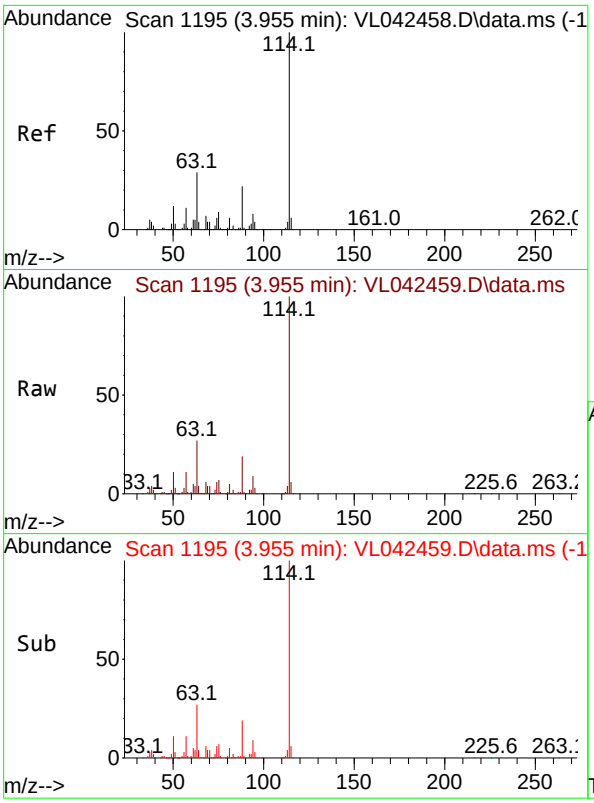


#32
1,1,1-Trichloroethane
Concen: 1.940 ppbv
RT: 3.369 min Scan# 1014
Delta R.T. 0.003 min
Lab File: VL042459.D
Acq: 01 May 2025 09:37

Tgt Ion: 97 Resp: 36768

Ion	Ratio	Lower	Upper
97	100		
99	64.7	50.7	76.1
61	50.8	40.9	61.3

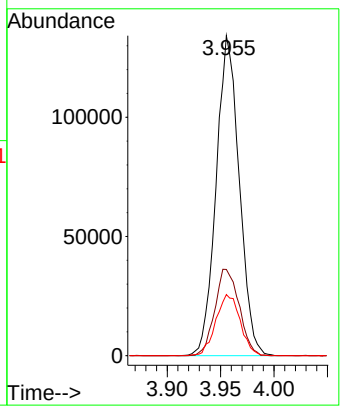




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.955 min Scan# 1
Delta R.T. -0.000 min
Lab File: VL042459.D
Acq: 01 May 2025 09:37

Tgt Ion:114 Resp: 20195

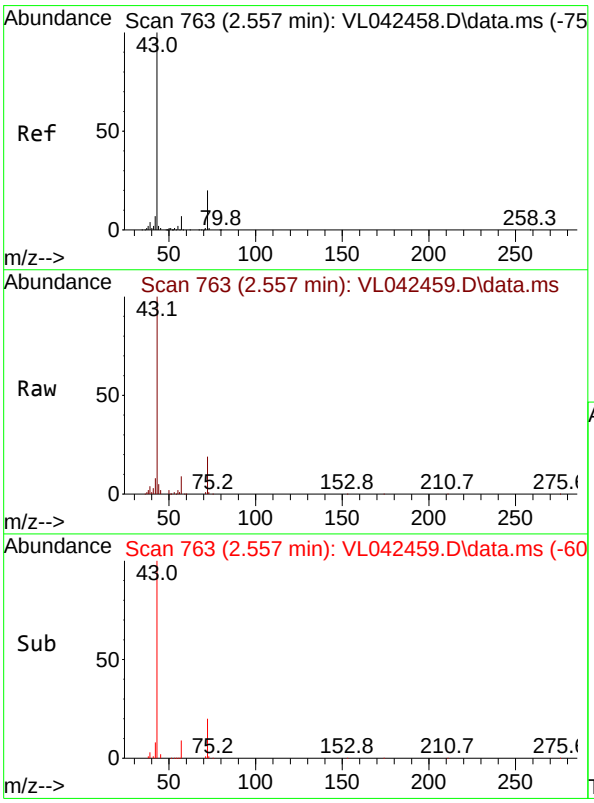
Ion	Ratio	Lower	Upper
114	100		
63	28.5	23.1	34.7
88	20.2	16.1	24.1



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

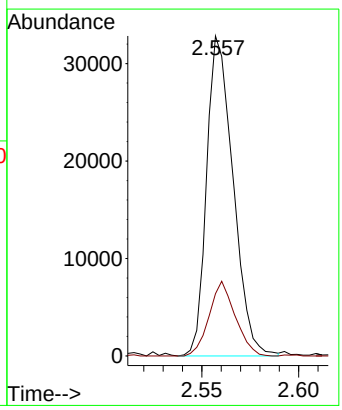
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

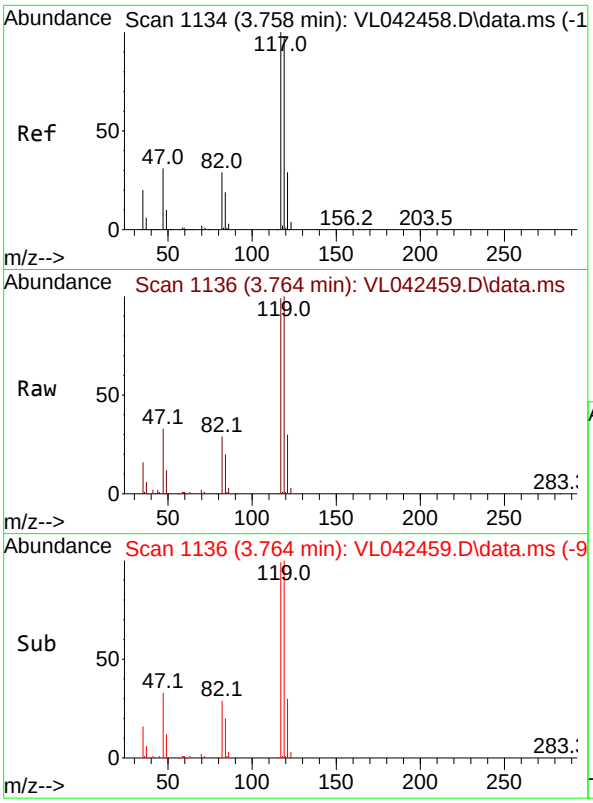


#34
2-Butanone
Concen: 2.139 ppbv
RT: 2.557 min Scan# 763
Delta R.T. -0.000 min
Lab File: VL042459.D
Acq: 01 May 2025 09:37

Tgt Ion: 43 Resp: 31242

Ion	Ratio	Lower	Upper
43	100		
72	23.2	16.7	25.1

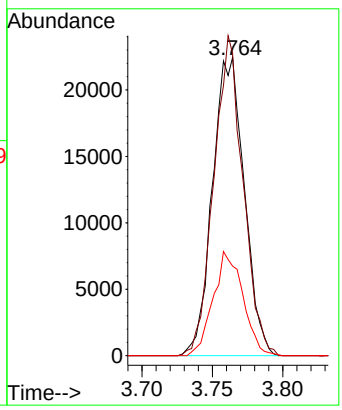




#35
Carbon Tetrachloride
Concen: 2.011 ppbv
RT: 3.764 min Scan# 1
Delta R.T. 0.006 min
Lab File: VL042459.D
Acq: 01 May 2025 09:37

Tgt Ion:117 Resp: 3532

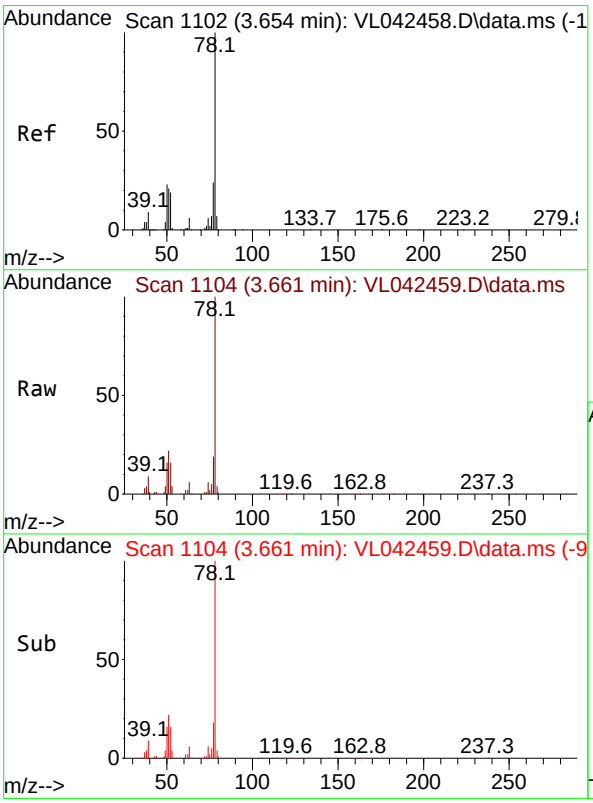
Ion	Ratio	Lower	Upper
117	100		
119	101.3	78.1	117.1
121	30.0	23.0	34.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

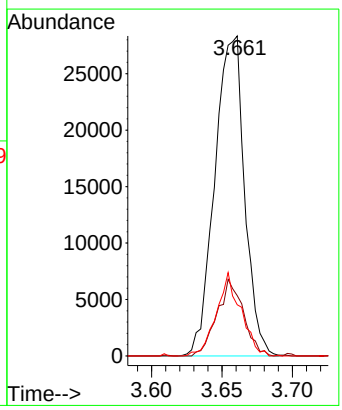
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

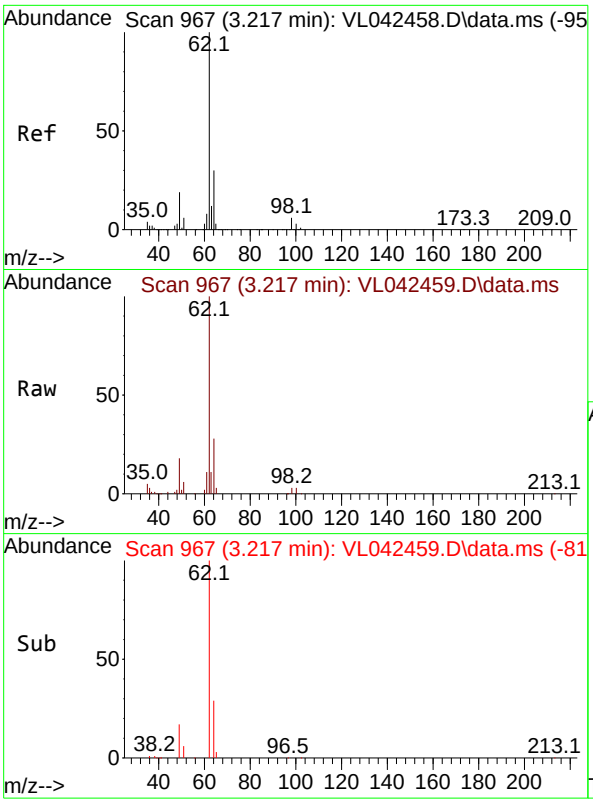


#36
Benzene
Concen: 2.196 ppbv
RT: 3.661 min Scan# 1104
Delta R.T. 0.006 min
Lab File: VL042459.D
Acq: 01 May 2025 09:37

Tgt Ion: 78 Resp: 41848

Ion	Ratio	Lower	Upper
78	100		
77	18.9	18.9	28.3#
50	16.0	18.4	27.6#

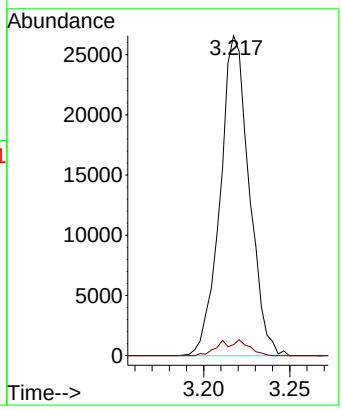




#37
1,2-Dichloroethane
Concen: 2.114 ppbv
RT: 3.217 min Scan# 9
Delta R.T. 0.000 min
Lab File: VL042459.D
Acq: 01 May 2025 09:37

Tgt Ion: 62 Resp: 3104

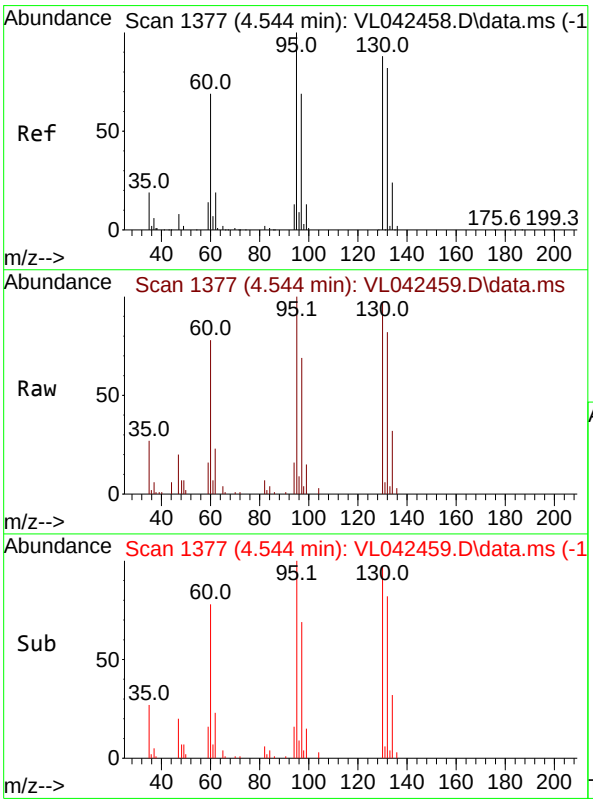
Ion	Ratio	Lower	Upper
62	100		
98	5.0	4.3	6.5



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

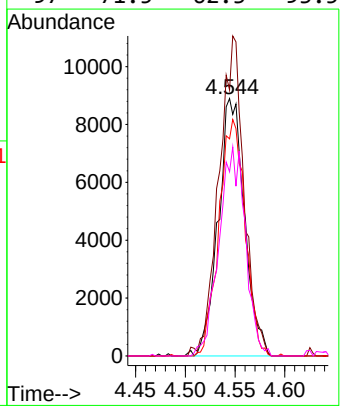
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

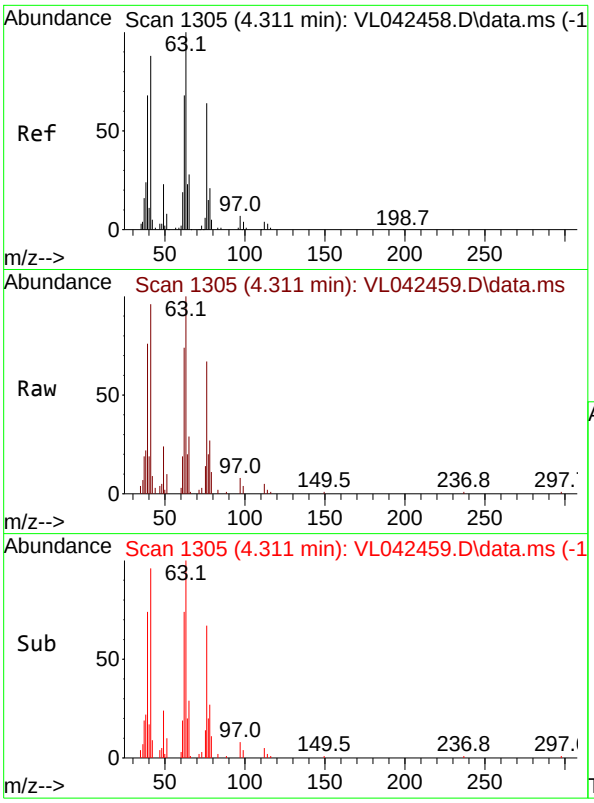


#38
Trichloroethene
Concen: 2.244 ppbv m
RT: 4.544 min Scan# 1377
Delta R.T. -0.000 min
Lab File: VL042459.D
Acq: 01 May 2025 09:37

Tgt Ion:130 Resp: 16311

Ion	Ratio	Lower	Upper
130	100		
95	103.3	91.0	136.4
132	84.3	74.2	111.4
97	71.5	62.3	93.5

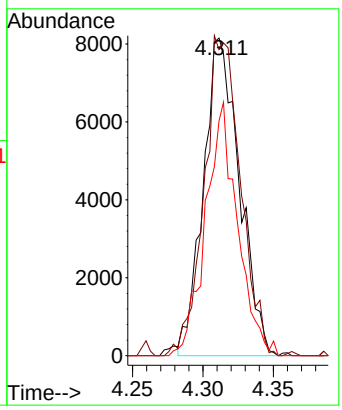




#39
1,2-Dichloropropane
Concen: 2.047 ppbv
RT: 4.311 min Scan# 1
Delta R.T. 0.000 min
Lab File: VL042459.D
Acq: 01 May 2025 09:37

Tgt Ion: 63 Resp: 1461

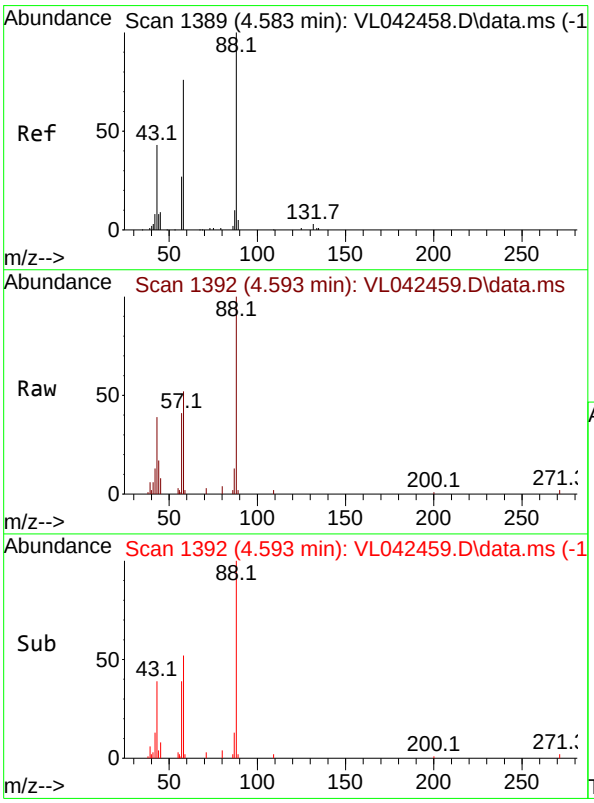
Ion	Ratio	Lower	Upper
63	100		
41	96.4	69.8	104.6
62	73.9	54.3	81.5



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

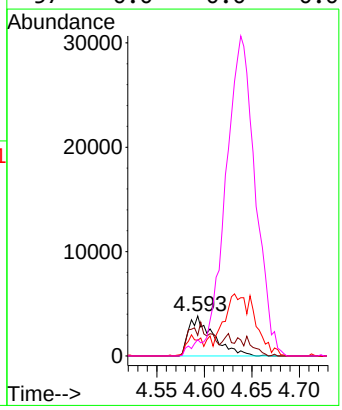
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

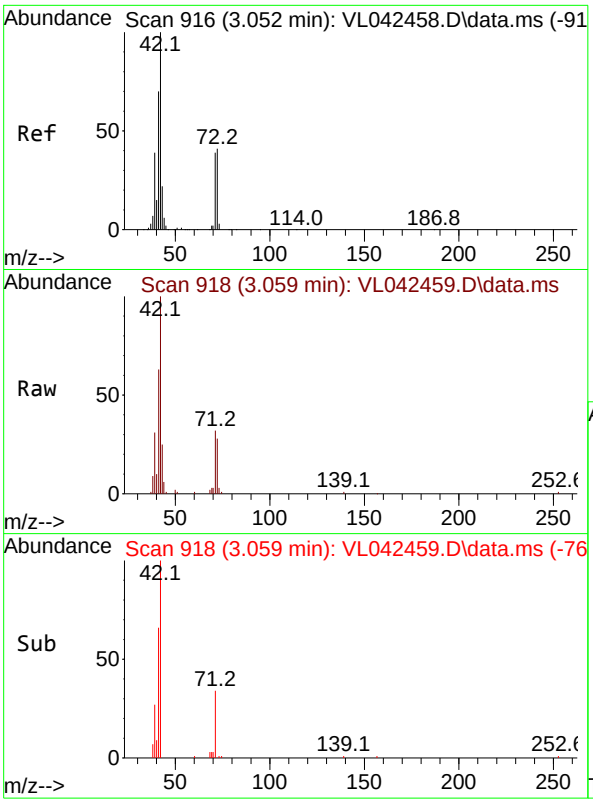


#40
1,4-Dioxane
Concen: 2.096 ppbv m
RT: 4.593 min Scan# 1392
Delta R.T. 0.010 min
Lab File: VL042459.D
Acq: 01 May 2025 09:37

Tgt Ion: 88 Resp: 6957

Ion	Ratio	Lower	Upper
88	100		
58	120.3	0.0	0.0#
43	0.0	0.0	0.0
57	0.0	0.0	0.0

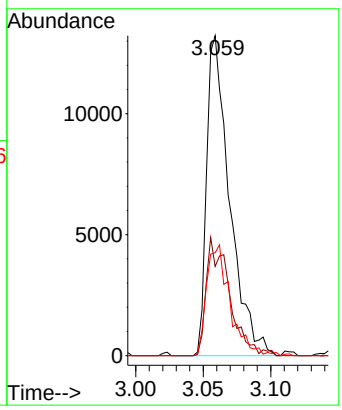




#41
Tetrahydrofuran
Concen: 2.258 ppbv m
RT: 3.059 min Scan# 9
Delta R.T. 0.006 min
Lab File: VL042459.D
Acq: 01 May 2025 09:37

Tgt Ion: 42 Resp: 1564

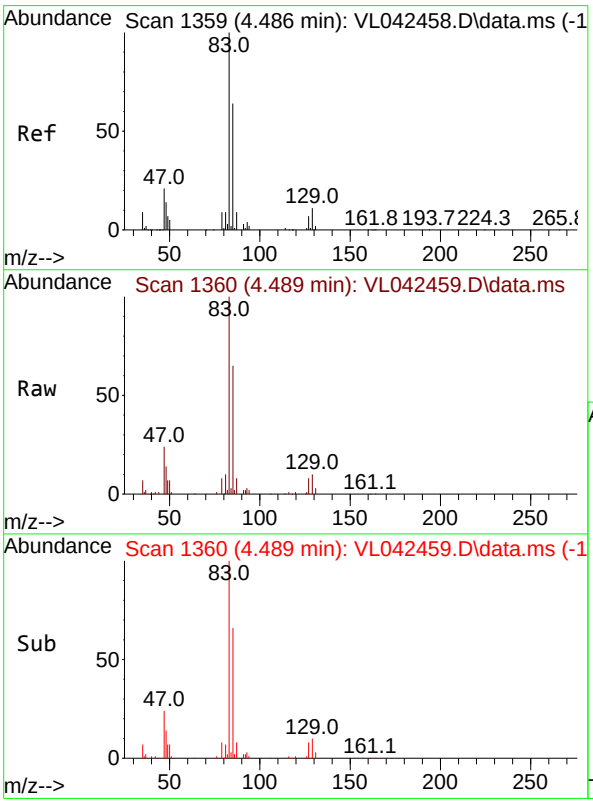
Ion	Ratio	Lower	Upper
42	100		
72	37.3	33.5	50.3
71	35.5	32.6	49.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

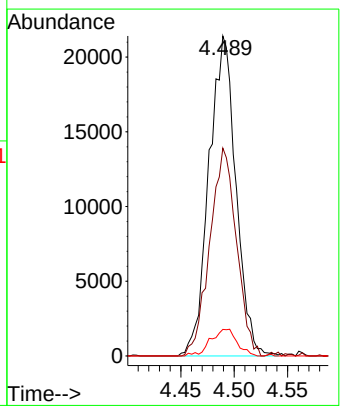
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

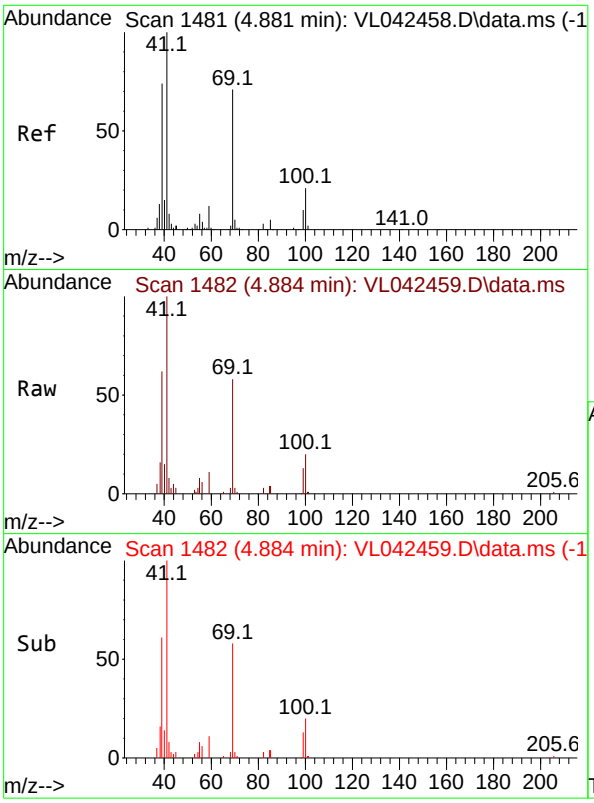


#42
Bromodichloromethane
Concen: 2.096 ppbv
RT: 4.489 min Scan# 1360
Delta R.T. 0.003 min
Lab File: VL042459.D
Acq: 01 May 2025 09:37

Tgt Ion: 83 Resp: 37615

Ion	Ratio	Lower	Upper
83	100		
85	64.9	51.5	77.3
127	8.3	5.4	8.2#

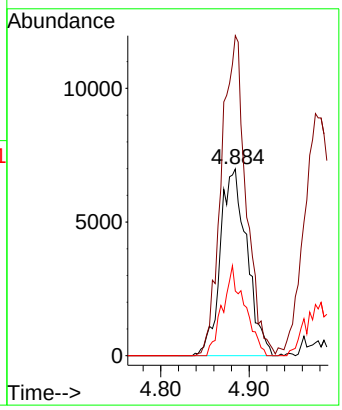




#43
Methyl Methacrylate
Concen: 2.059 ppbv m
RT: 4.884 min Scan# 14
Delta R.T. 0.003 min
Lab File: VL042459.D
Acq: 01 May 2025 09:37

Tgt Ion: 69 Resp: 1461

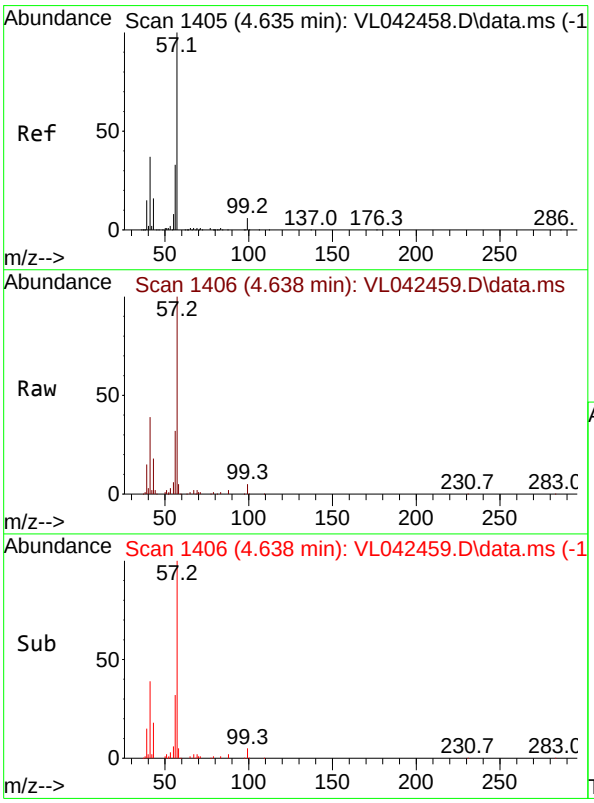
Ion	Ratio	Lower	Upper
69	100		
41	160.3	120.8	181.2
100	40.0	26.7	40.1



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

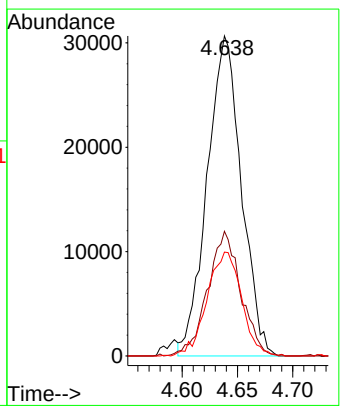
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

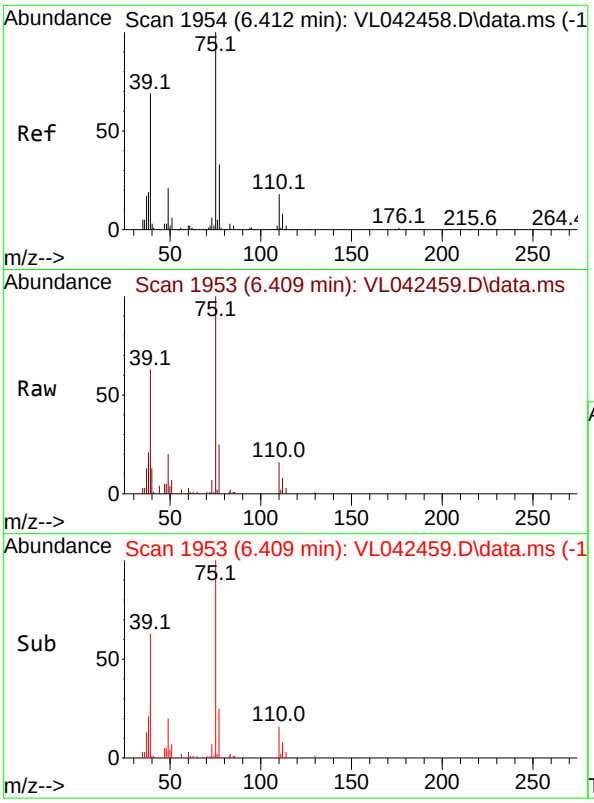


#44
2,2,4-Trimethylpentane
Concen: 2.142 ppbv
RT: 4.638 min Scan# 1406
Delta R.T. 0.003 min
Lab File: VL042459.D
Acq: 01 May 2025 09:37

Tgt Ion: 57 Resp: 65967

Ion	Ratio	Lower	Upper
57	100		
41	37.8	30.6	45.8
56	32.7	25.0	37.6

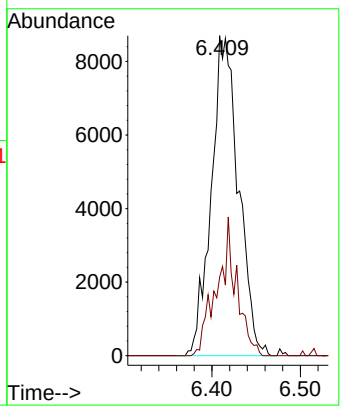




#45
t-1,3-Dichloropropene
Concen: 1.987 ppbv m
RT: 6.409 min Scan# 1
Delta R.T. -0.003 min
Lab File: VL042459.D
Acq: 01 May 2025 09:37

Tgt Ion: 75 Resp: 1856

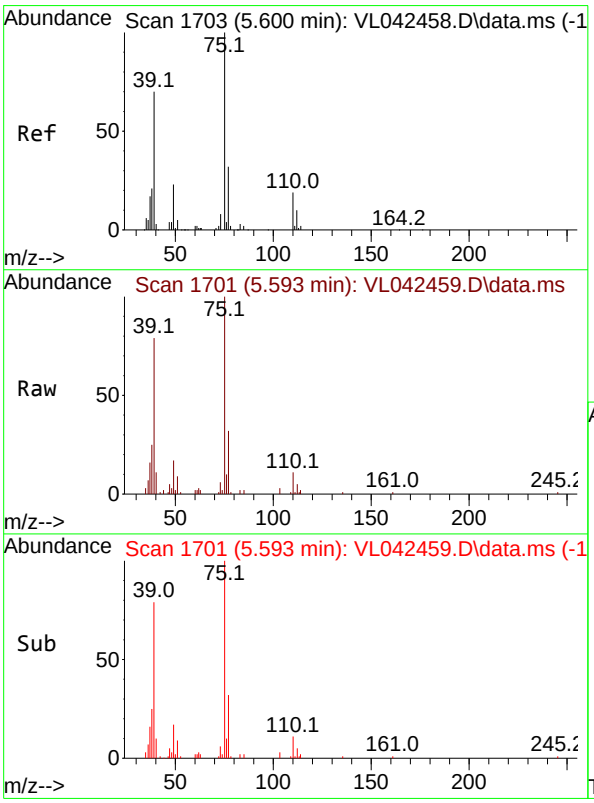
Ion	Ratio	Lower	Upper
75	100		
77	24.5	26.3	39.5#



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

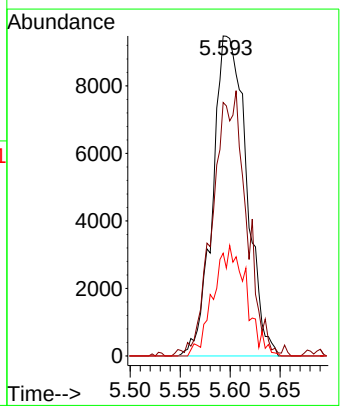
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

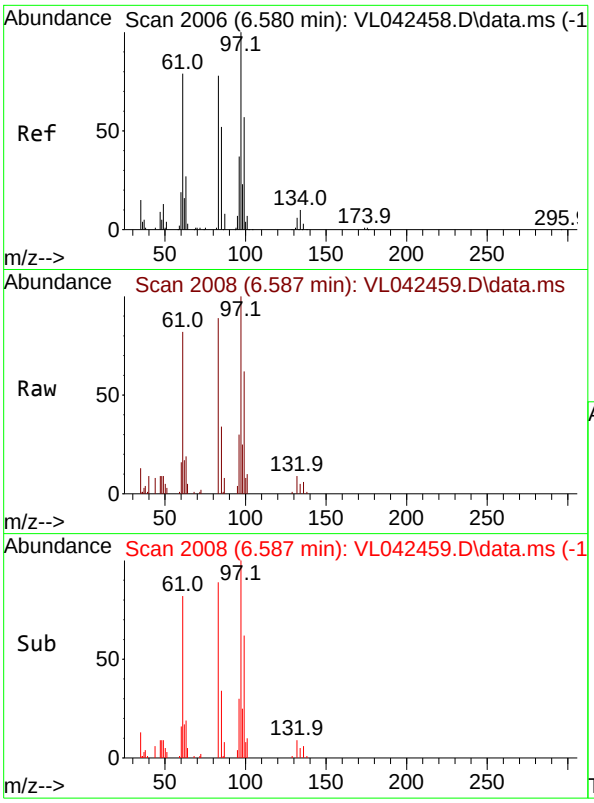


#46
cis-1,3-Dichloropropene
Concen: 2.000 ppbv
RT: 5.593 min Scan# 1701
Delta R.T. -0.006 min
Lab File: VL042459.D
Acq: 01 May 2025 09:37

Tgt Ion: 75 Resp: 22184

Ion	Ratio	Lower	Upper
75	100		
39	78.3	55.7	83.5
77	32.1	25.8	38.8

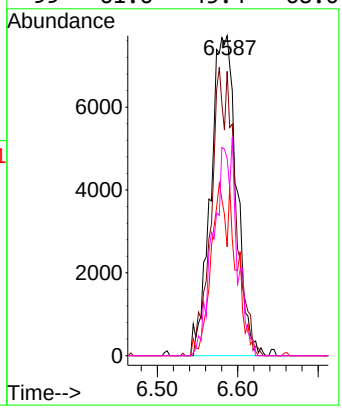




#47
1,1,2-Trichloroethane
Concen: 2.212 ppbv m
RT: 6.587 min Scan# 2
Delta R.T. 0.006 min
Lab File: VL042459.D
Acq: 01 May 2025 09:37

Tgt Ion: 97 Resp: 1730

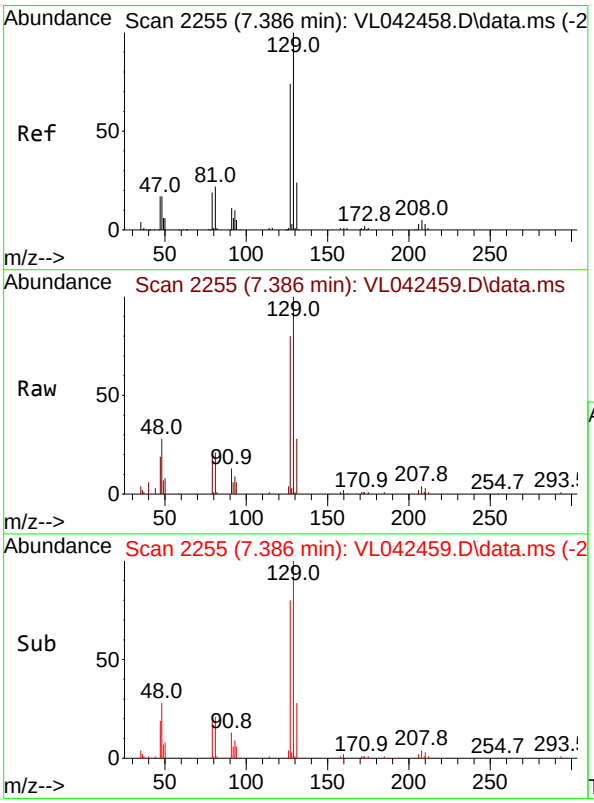
Ion	Ratio	Lower	Upper
97	100		
83	88.9	62.2	93.2
85	34.0	41.5	62.3#
99	61.6	45.4	68.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

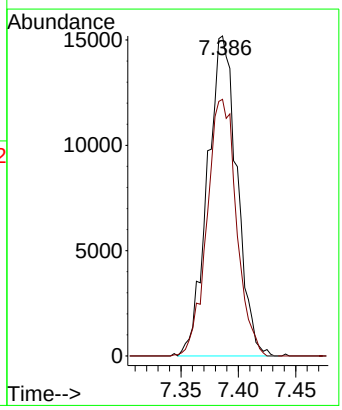
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

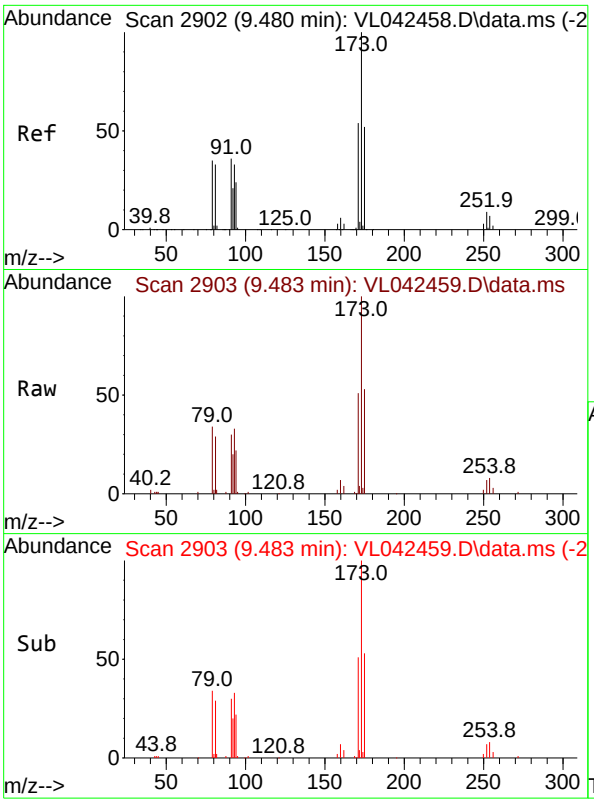


#48
Dibromochloromethane
Concen: 2.057 ppbv
RT: 7.386 min Scan# 2255
Delta R.T. -0.000 min
Lab File: VL042459.D
Acq: 01 May 2025 09:37

Tgt Ion:129 Resp: 27174

Ion	Ratio	Lower	Upper
129	100		
127	80.0	39.5	118.5

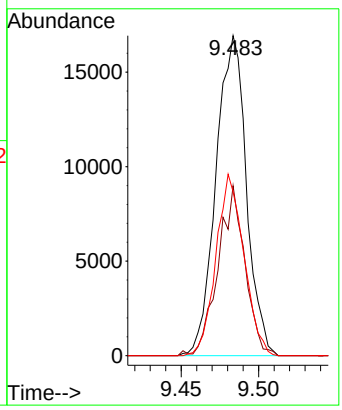




#49
Bromoform
Concen: 2.088 ppbv
RT: 9.483 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042459.D
Acq: 01 May 2025 09:37

Tgt Ion:173 Resp: 2312

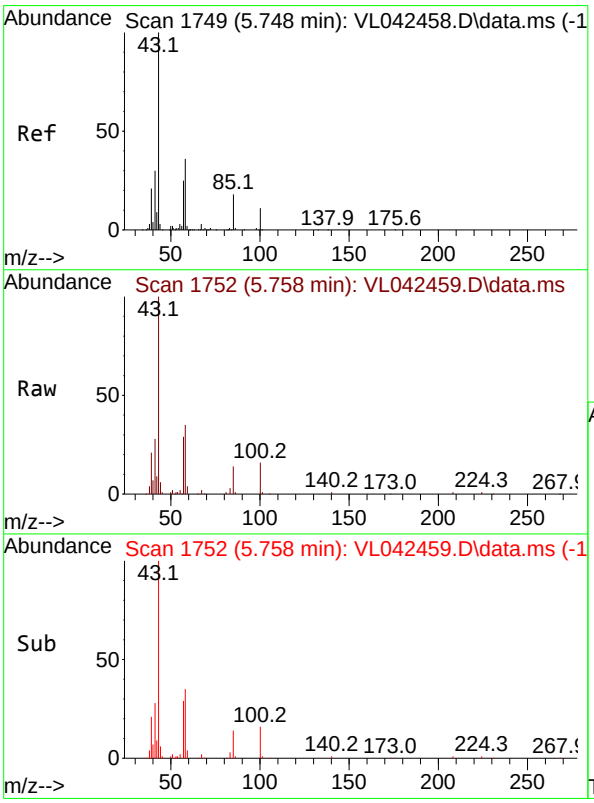
Ion	Ratio	Lower	Upper
173	100		
175	47.0	38.9	58.3
171	52.0	40.6	60.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

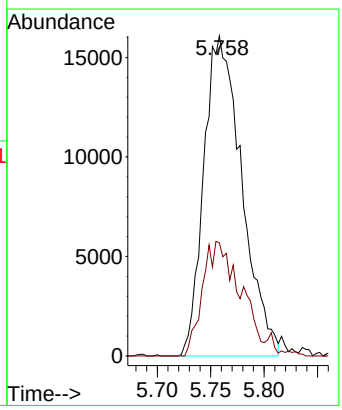
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

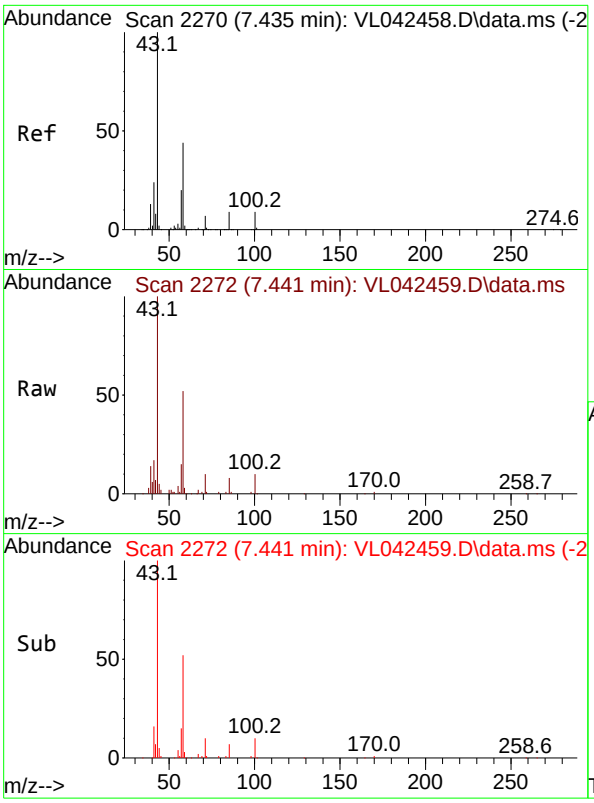


#50
4-Methyl-2-Pentanone
Concen: 2.155 ppbv
RT: 5.758 min Scan# 1752
Delta R.T. 0.010 min
Lab File: VL042459.D
Acq: 01 May 2025 09:37

Tgt Ion: 43 Resp: 39798

Ion	Ratio	Lower	Upper
43	100		
58	37.3	29.5	44.3





#51
2-Hexanone
Concen: 2.177 ppbv
RT: 7.441 min Scan# 2
Delta R.T. 0.006 min
Lab File: VL042459.D
Acq: 01 May 2025 09:37

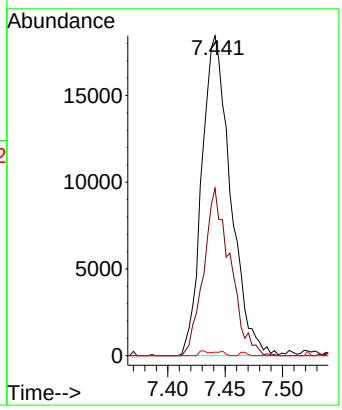
Tgt Ion: 43 Resp: 3219

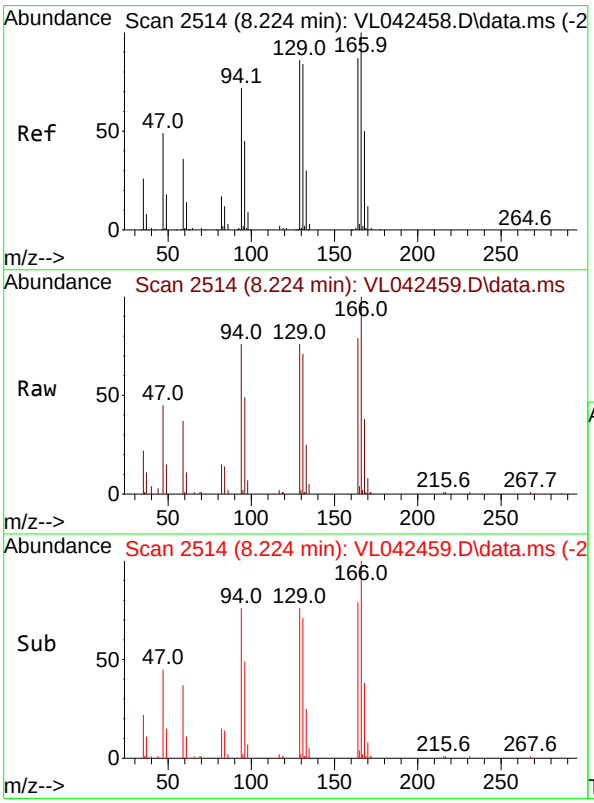
Ion	Ratio	Lower	Upper
43	100		
58	48.3	37.2	55.8
98	1.3	0.4	0.6

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

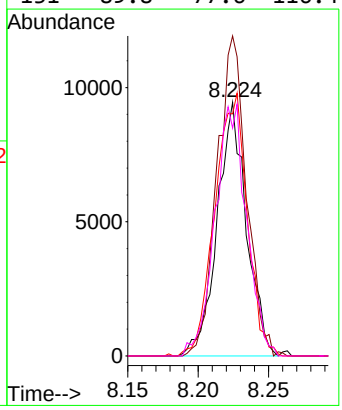


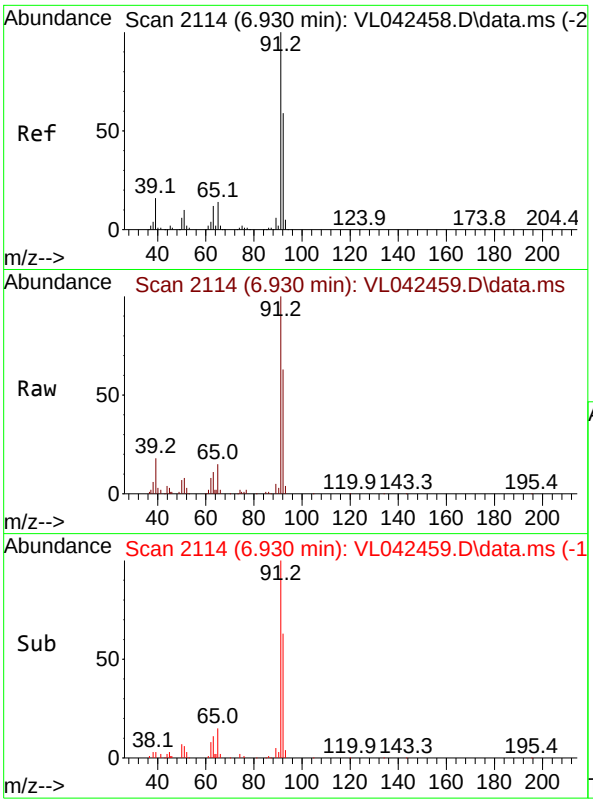


#52
Tetrachloroethene
Concen: 1.885 ppbv
RT: 8.224 min Scan# 2514
Delta R.T. -0.000 min
Lab File: VL042459.D
Acq: 01 May 2025 09:37

Tgt Ion:164 Resp: 13670

Ion	Ratio	Lower	Upper
164	100		
166	126.2	91.6	137.4
129	95.4	79.0	118.4
131	89.8	77.6	116.4

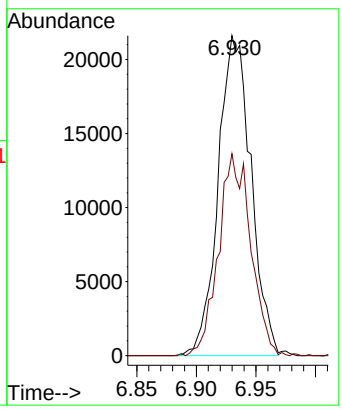




#53
Toluene
Concen: 2.052 ppbv
RT: 6.930 min Scan# 21
Delta R.T. -0.000 min
Lab File: VL042459.D
Acq: 01 May 2025 09:37

Tgt Ion: 91 Resp: 4139

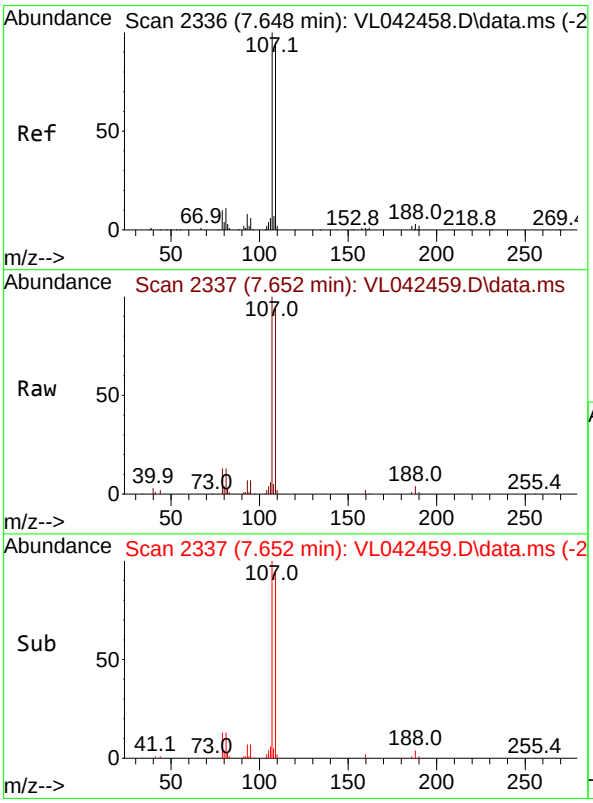
Ion	Ratio	Lower	Upper
91	100		
92	61.9	47.9	71.9



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

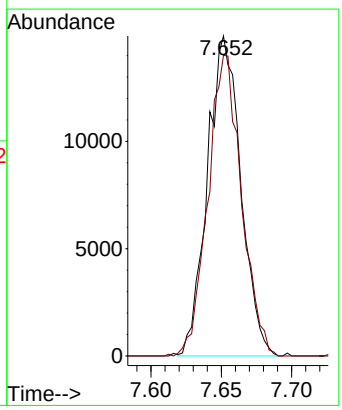
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

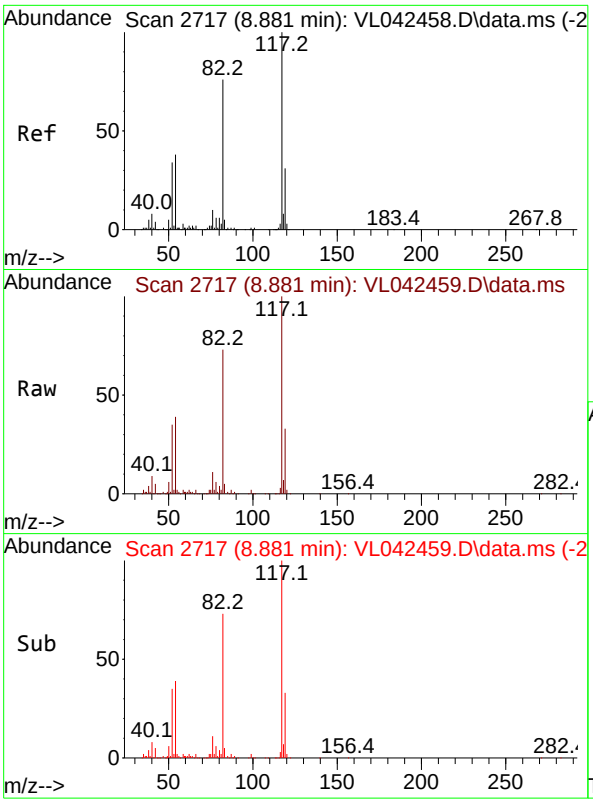


#54
1,2-Dibromoethane
Concen: 2.049 ppbv
RT: 7.652 min Scan# 2337
Delta R.T. 0.003 min
Lab File: VL042459.D
Acq: 01 May 2025 09:37

Tgt Ion:107 Resp: 24650

Ion	Ratio	Lower	Upper
107	100		
109	94.0	76.0	114.0

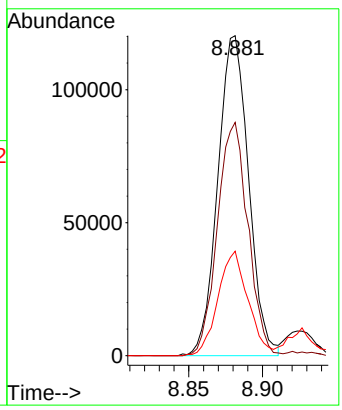




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.881 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042459.D
Acq: 01 May 2025 09:37

Tgt Ion:117 Resp: 17462

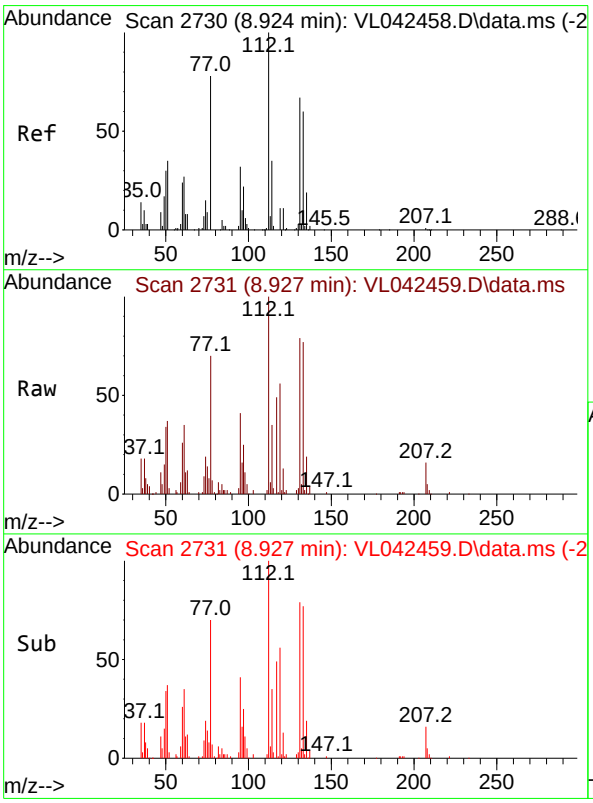
Ion	Ratio	Lower	Upper
117	100		
82	73.4	63.5	95.3
119	31.9	25.8	38.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

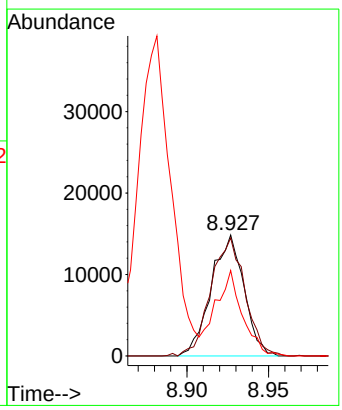
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

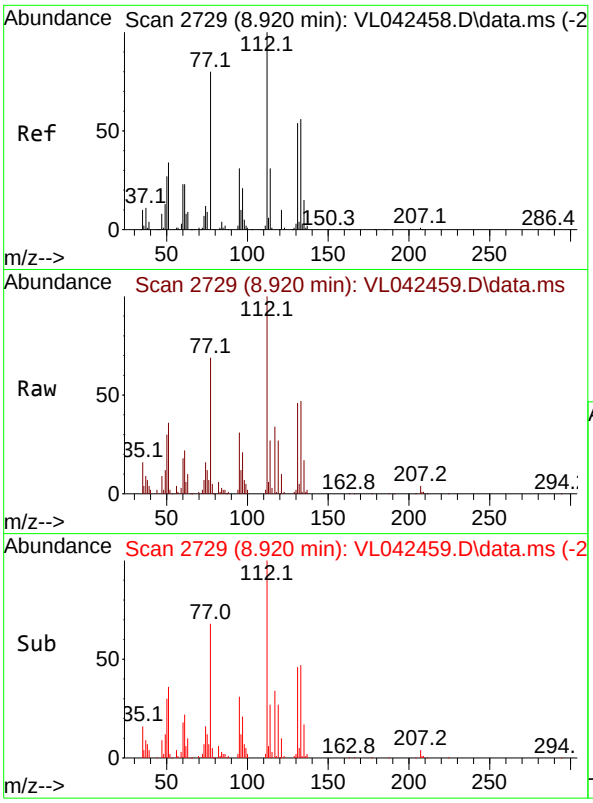


#56
1,1,1,2-Tetrachloroethane
Concen: 2.019 ppbv
RT: 8.927 min Scan# 2731
Delta R.T. 0.003 min
Lab File: VL042459.D
Acq: 01 May 2025 09:37

Tgt Ion:131 Resp: 20822

Ion	Ratio	Lower	Upper
131	100		
133	101.8	76.0	114.0
119	55.4	46.1	69.1

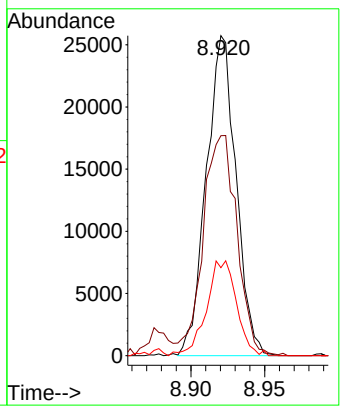




#57
Chlorobenzene
Concen: 2.062 ppbv
RT: 8.920 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL042459.D
Acq: 01 May 2025 09:37

Tgt Ion:112 Resp: 3618

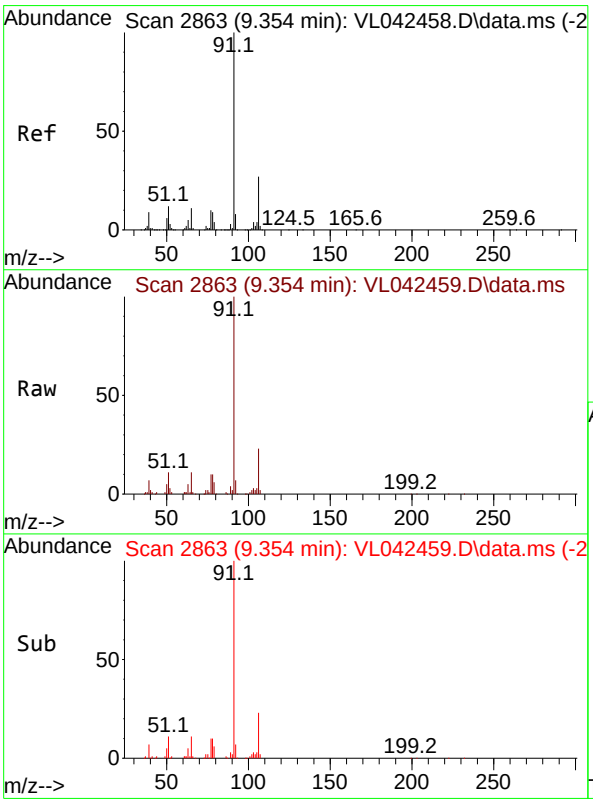
Ion	Ratio	Lower	Upper
112	100		
77	68.5	65.0	97.4
114	27.5	27.5	33.7



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

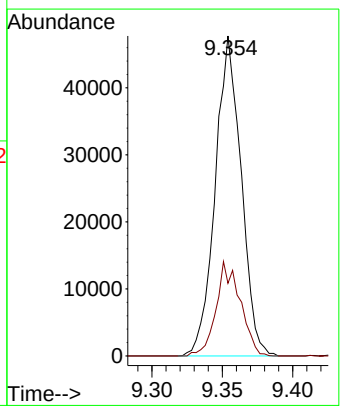
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

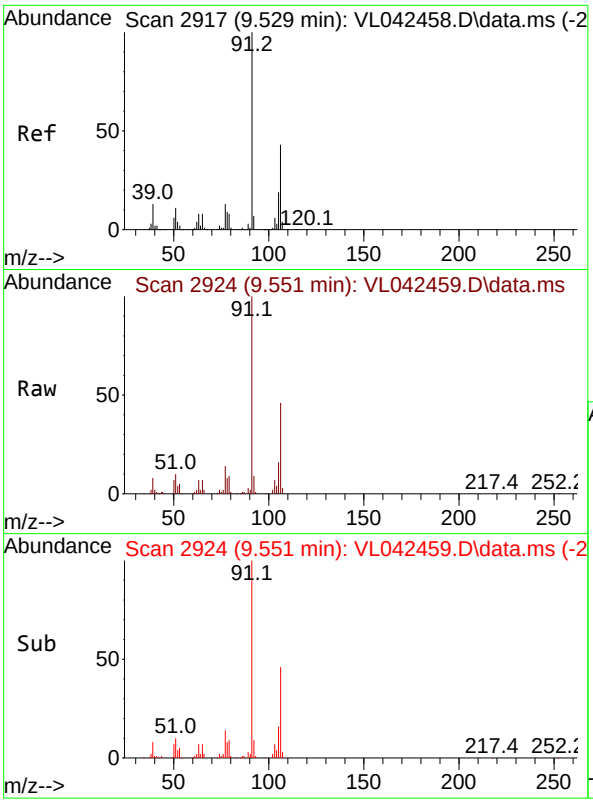


#58
Ethyl Benzene
Concen: 2.096 ppbv
RT: 9.354 min Scan# 2863
Delta R.T. -0.000 min
Lab File: VL042459.D
Acq: 01 May 2025 09:37

Tgt Ion: 91 Resp: 61177

Ion	Ratio	Lower	Upper
91	100		
106	22.7	21.9	32.9

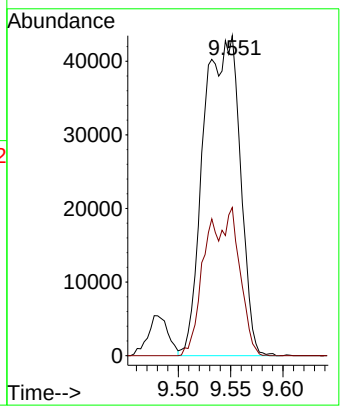




#59
m/p-Xylene
Concen: 4.299 ppbv m
RT: 9.551 min Scan# 2
Delta R.T. 0.023 min
Lab File: VL042459.D
Acq: 01 May 2025 09:37

Tgt Ion: 91 Resp: 10518

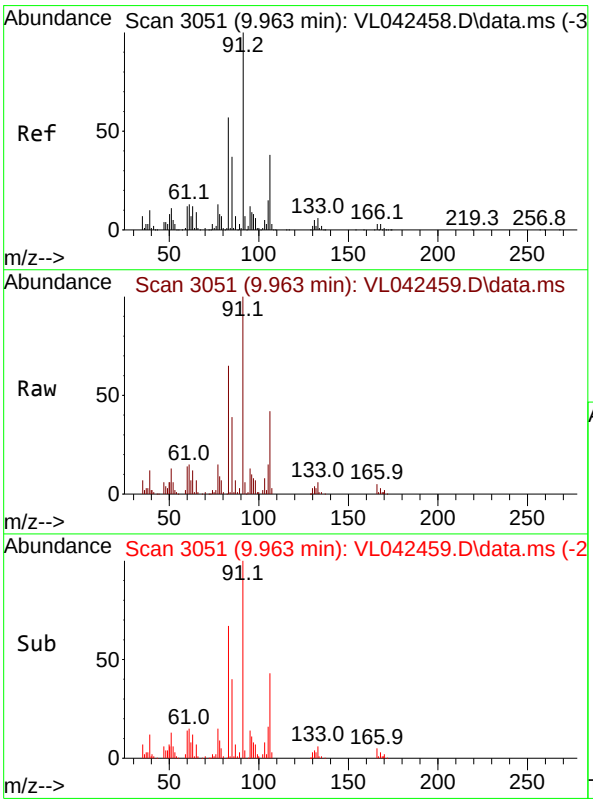
Ion	Ratio	Lower	Upper
91	100		
106	0.0	34.2	51.2



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

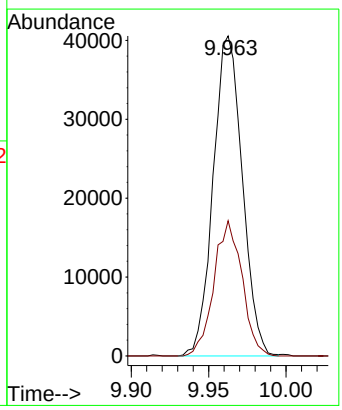
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

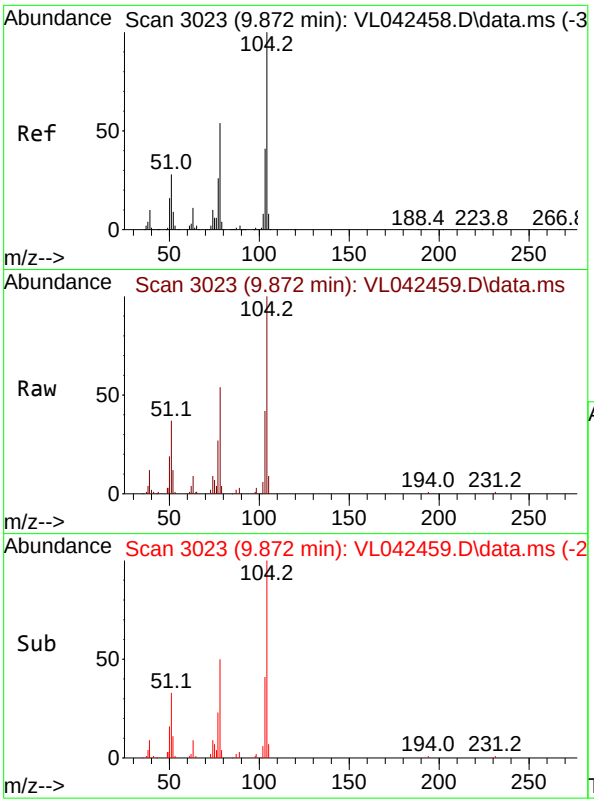


#60
o-Xylene
Concen: 2.169 ppbv
RT: 9.963 min Scan# 3051
Delta R.T. -0.000 min
Lab File: VL042459.D
Acq: 01 May 2025 09:37

Tgt Ion: 91 Resp: 53051

Ion	Ratio	Lower	Upper
91	100		
106	40.7	20.1	60.2

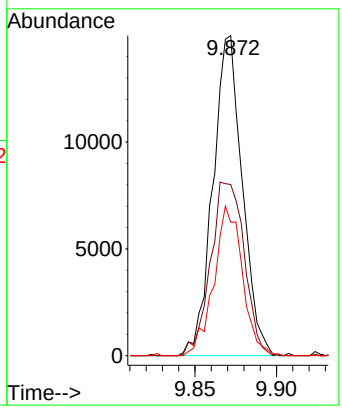




#61
Styrene
Concen: 2.054 ppbv
RT: 9.872 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042459.D
Acq: 01 May 2025 09:37

Tgt Ion:104 Resp: 1877

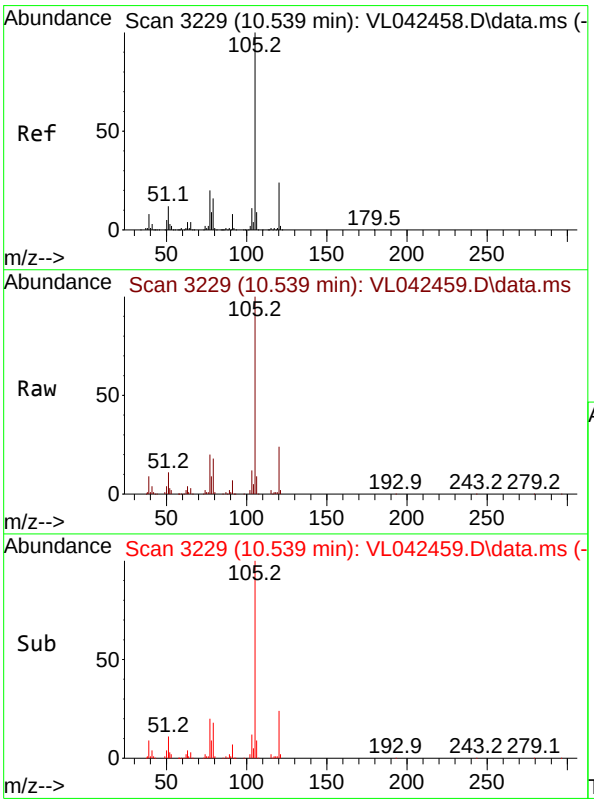
Ion	Ratio	Lower	Upper
104	100		
78	62.1	46.9	70.3
103	45.4	36.6	55.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

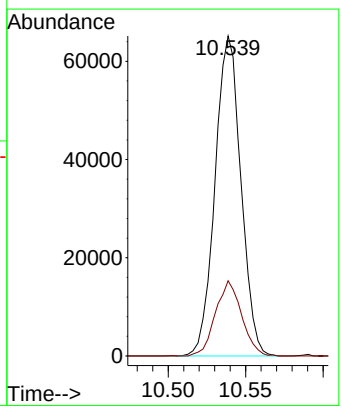
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

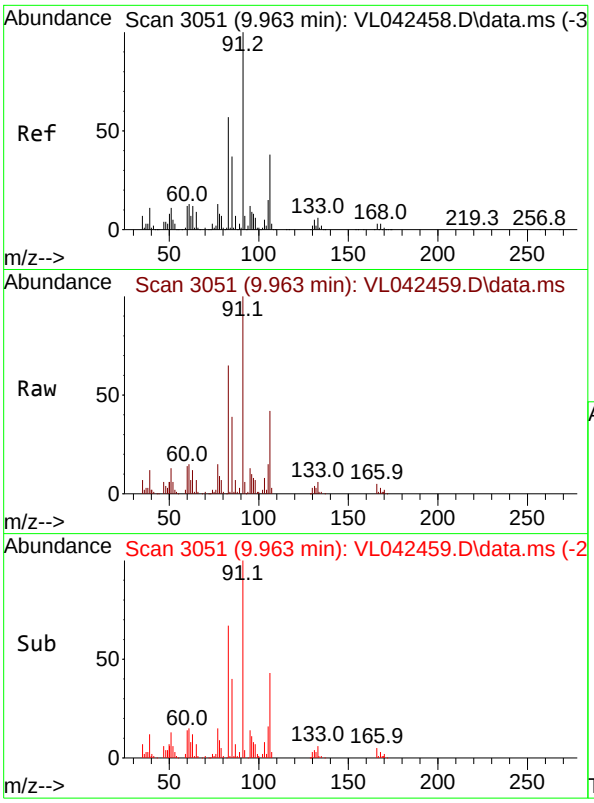


#62
Isopropylbenzene
Concen: 2.140 ppbv
RT: 10.539 min Scan# 3229
Delta R.T. -0.000 min
Lab File: VL042459.D
Acq: 01 May 2025 09:37

Tgt Ion:105 Resp: 75626

Ion	Ratio	Lower	Upper
105	100		
120	23.8	18.8	28.2





#63
1,1,2,2-Tetrachloroethane
Concen: 2.178 ppbv
RT: 9.963 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042459.D
Acq: 01 May 2025 09:37

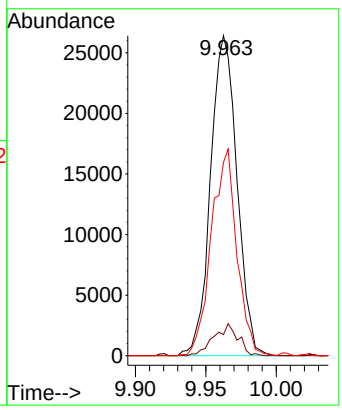
Tgt Ion: 83 Resp: 3456

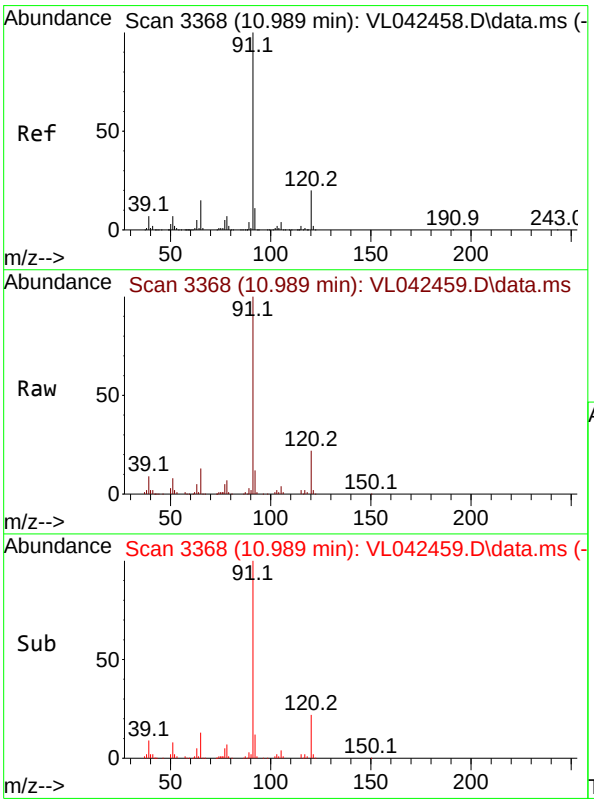
Ion	Ratio	Lower	Upper
83	100		
131	9.2	4.7	14.1
85	62.8	32.5	97.4

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

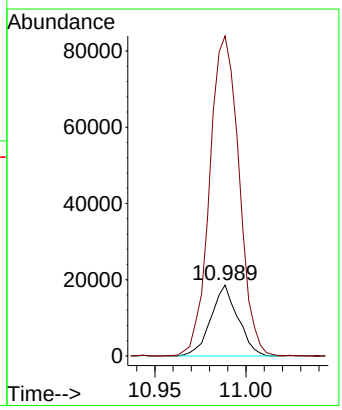


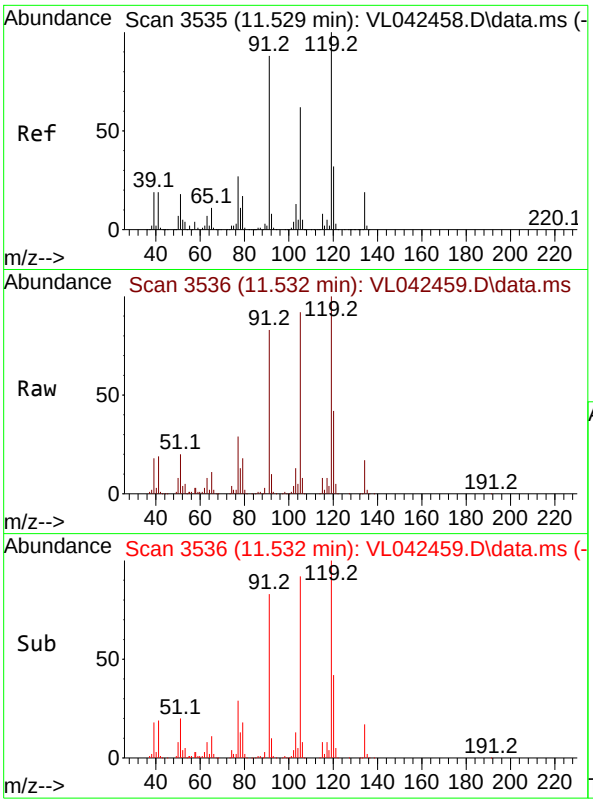


#64
n-propylbenzene
Concen: 2.226 ppbv
RT: 10.989 min Scan# 3368
Delta R.T. 0.000 min
Lab File: VL042459.D
Acq: 01 May 2025 09:37

Tgt Ion:120 Resp: 19160

Ion	Ratio	Lower	Upper
120	100		
91	493.2	408.6	612.8

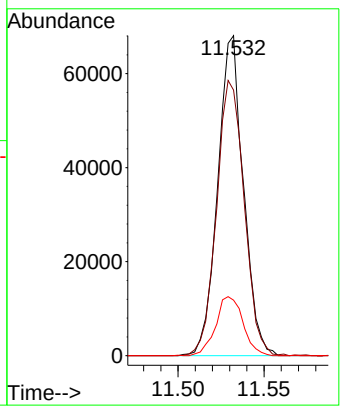




#65
tert-Butylbenzene
Concen: 2.246 ppbv
RT: 11.532 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042459.D
Acq: 01 May 2025 09:37

Tgt Ion:119 Resp: 7081

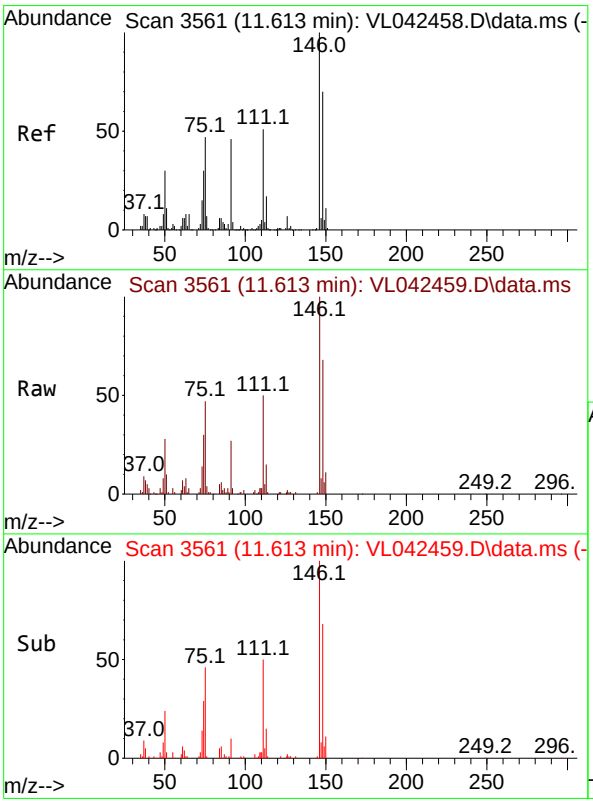
Ion	Ratio	Lower	Upper
119	100		
91	92.3	71.6	107.4
134	19.6	15.0	22.4



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

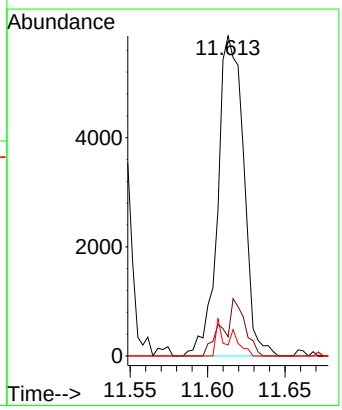
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

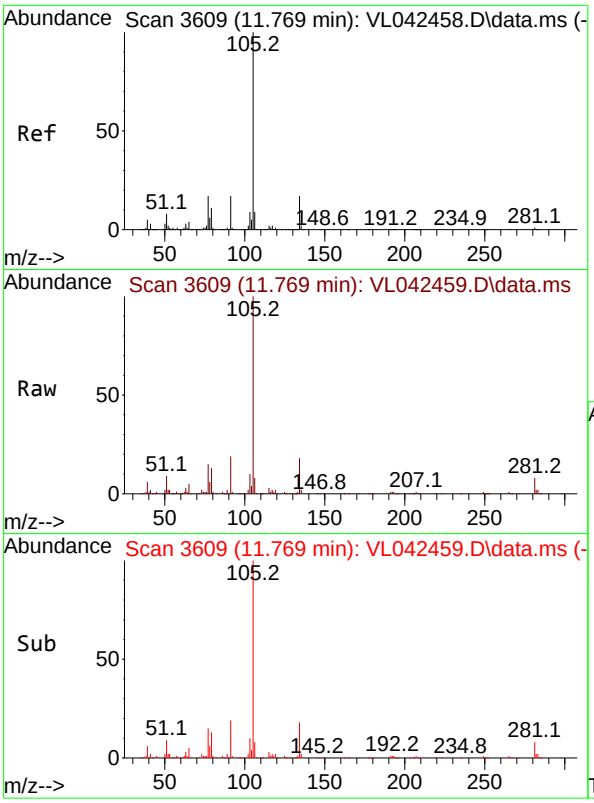


#66
Benzyl Chloride
Concen: 1.864 ppbv
RT: 11.613 min Scan# 3561
Delta R.T. -0.000 min
Lab File: VL042459.D
Acq: 01 May 2025 09:37

Tgt Ion: 91 Resp: 6794

Ion	Ratio	Lower	Upper
91	100		
126	15.1	13.3	19.9
128	6.0	4.2	6.4





#67
sec-Butylbenzene
Concen: 2.264 ppbv
RT: 11.769 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042459.D
Acq: 01 May 2025 09:37

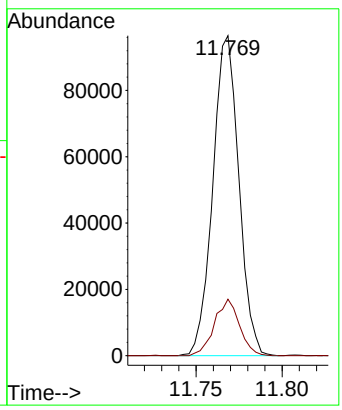
Tgt Ion:105 Resp: 10145

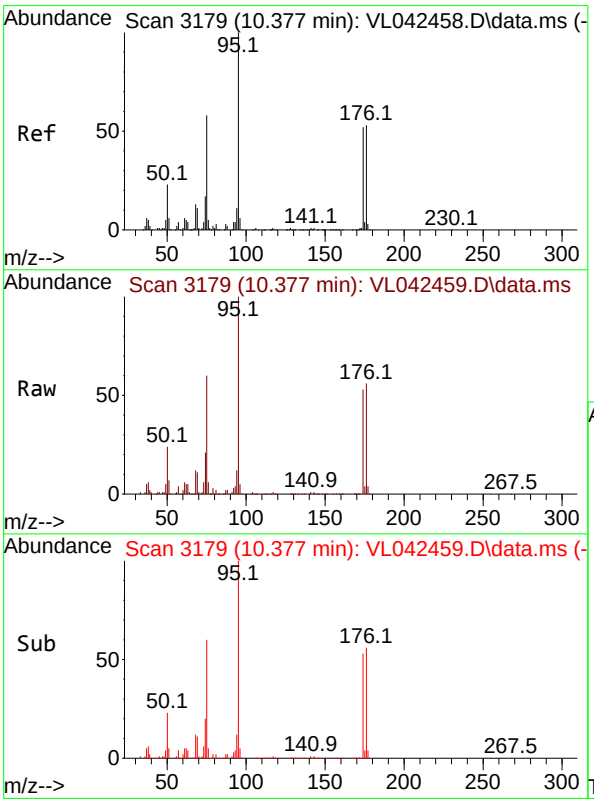
Ion	Ratio	Lower	Upper
105	100		
134	17.0	14.1	21.1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

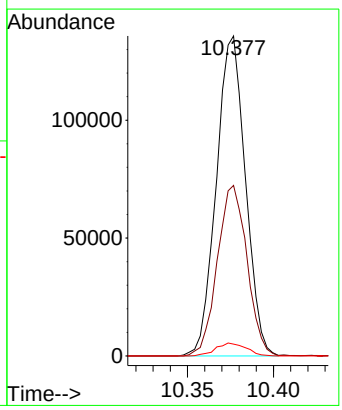


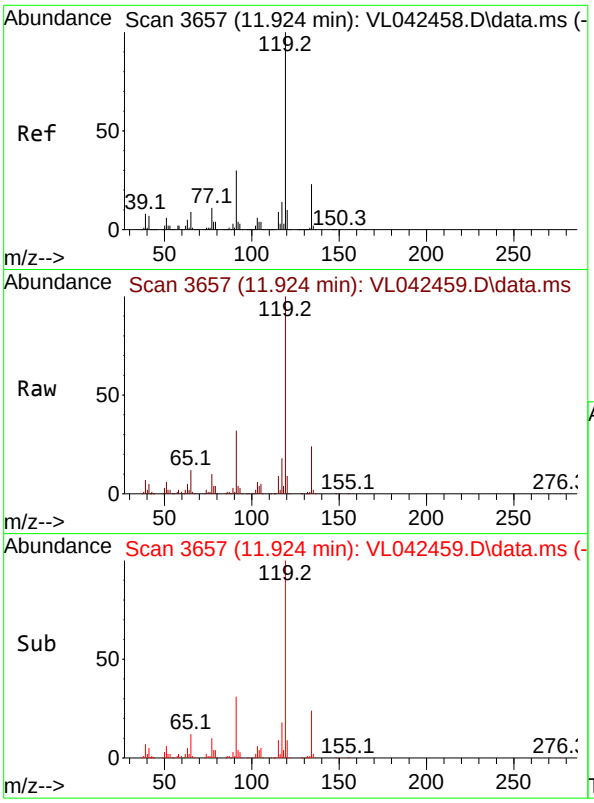


#68
1-Bromo-4-Fluorobenzene
Concen: 9.869 ppbv
RT: 10.377 min Scan# 3179
Delta R.T. -0.000 min
Lab File: VL042459.D
Acq: 01 May 2025 09:37

Tgt Ion: 95 Resp: 159777

Ion	Ratio	Lower	Upper
95	100		
174	54.3	42.7	64.1
175	4.2	3.6	5.4

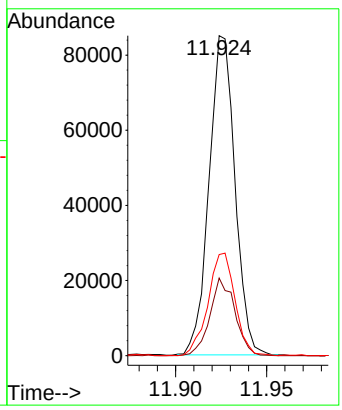




#69
p-Isopropyltoluene
Concen: 2.226 ppbv
RT: 11.924 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042459.D
Acq: 01 May 2025 09:37

Tgt Ion:119 Resp: 8402

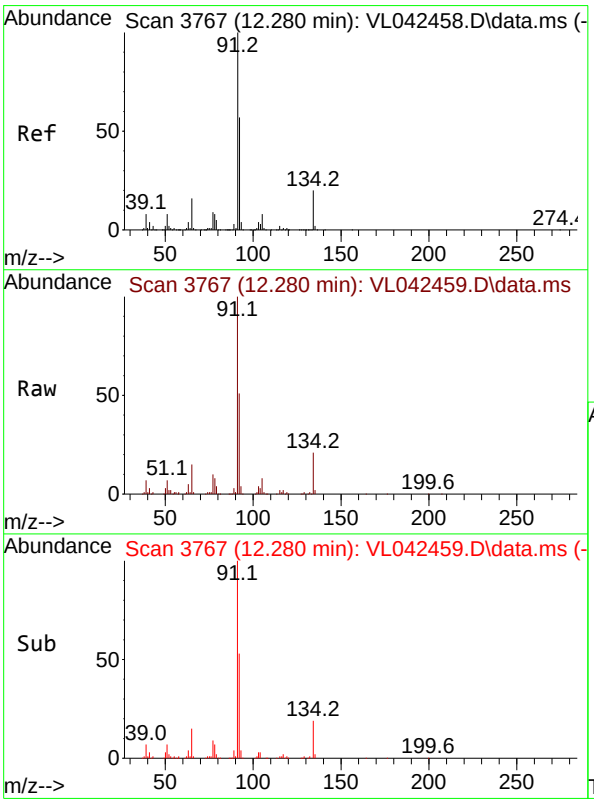
Ion	Ratio	Lower	Upper
119	100		
134	23.5	19.0	28.4
91	33.8	25.5	38.3



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

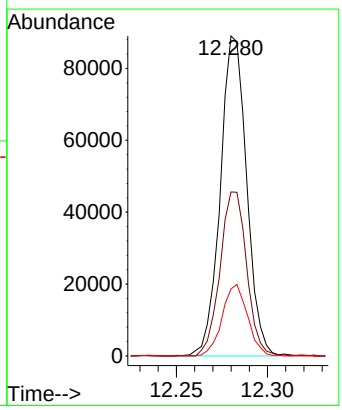
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

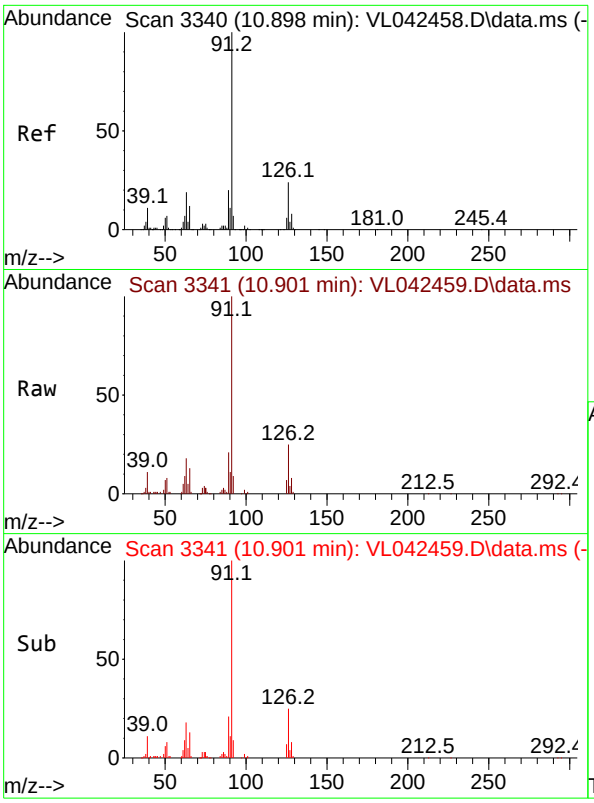


#70
n-Butylbenzene
Concen: 2.291 ppbv
RT: 12.280 min Scan# 3767
Delta R.T. -0.000 min
Lab File: VL042459.D
Acq: 01 May 2025 09:37

Tgt Ion: 91 Resp: 89400

Ion	Ratio	Lower	Upper
91	100		
92	52.0	44.0	66.0
134	21.7	16.8	25.2

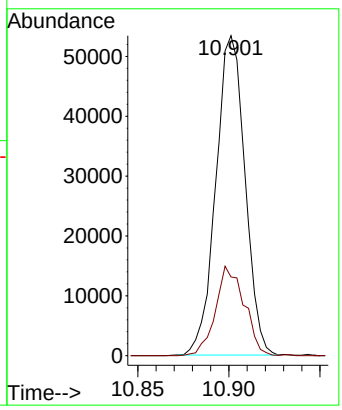




#71
2-Chlorotoluene
Concen: 2.139 ppbv
RT: 10.901 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042459.D
Acq: 01 May 2025 09:37

Tgt Ion: 91 Resp: 5927

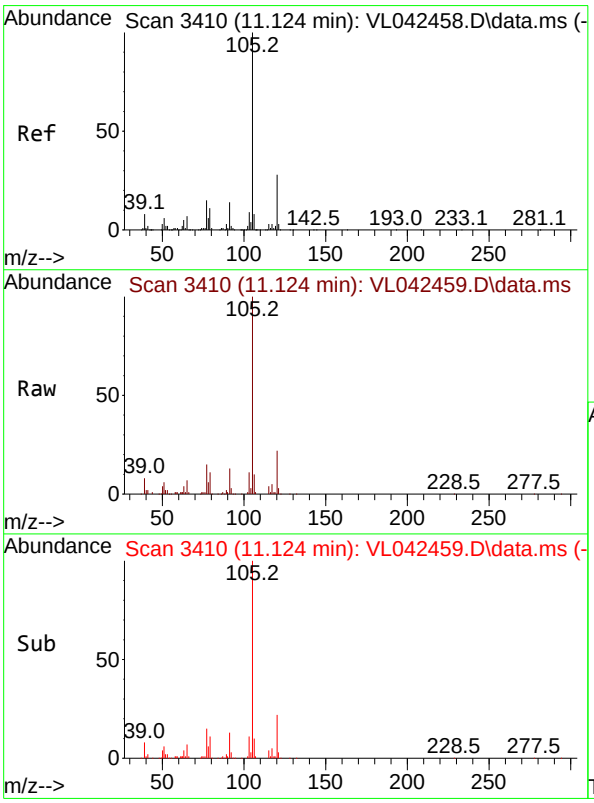
Ion	Ratio	Lower	Upper
91	100		
126	27.8	10.6	42.2



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

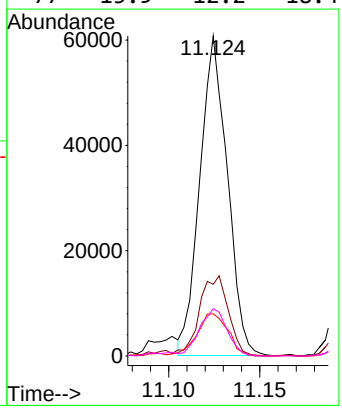
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

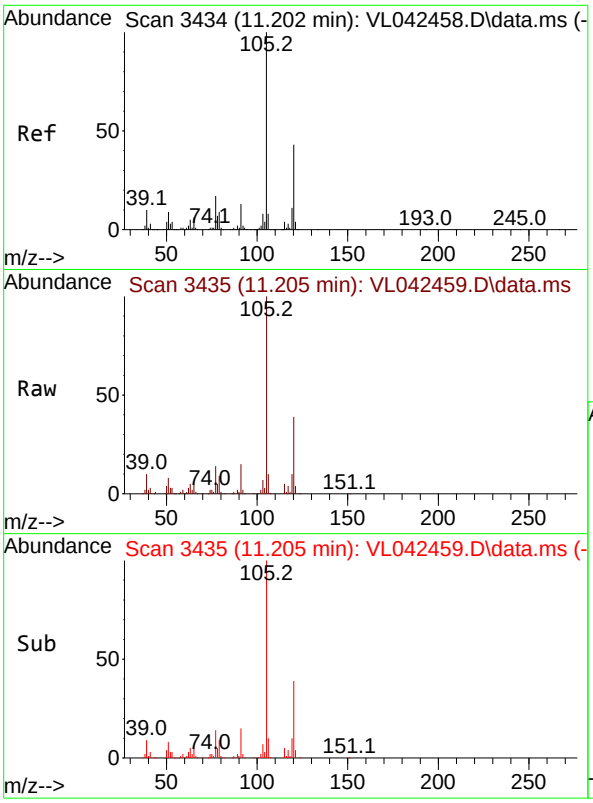


#72
4-Ethyltoluene
Concen: 2.210 ppbv
RT: 11.124 min Scan# 3410
Delta R.T. -0.000 min
Lab File: VL042459.D
Acq: 01 May 2025 09:37

Tgt Ion:105 Resp: 63833

Ion	Ratio	Lower	Upper
105	100		
120	27.6	22.0	33.0
91	15.7	11.2	16.8
77	15.9	12.2	18.4

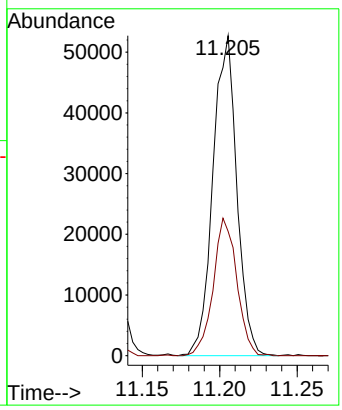




#73
1,3,5-Trimethylbenzene
Concen: 2.225 ppbv
RT: 11.205 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042459.D
Acq: 01 May 2025 09:37

Tgt Ion:105 Resp: 5651

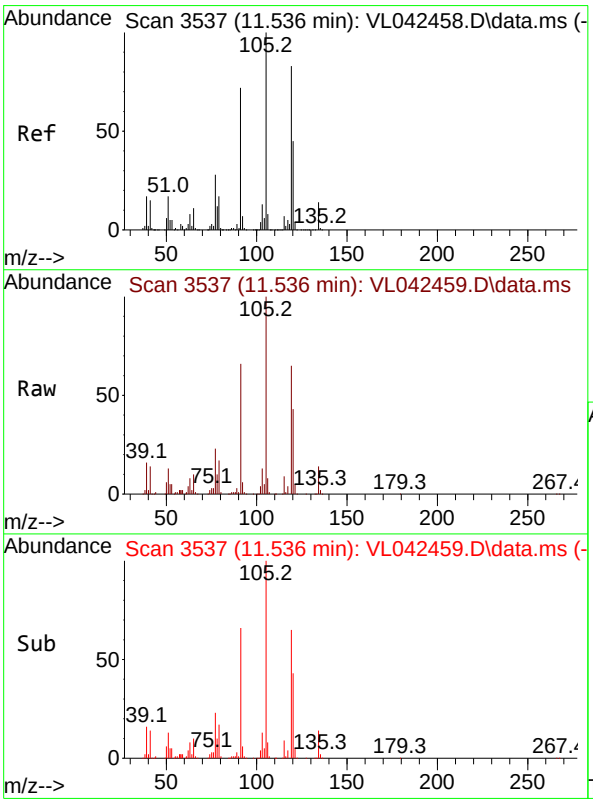
Ion	Ratio	Lower	Upper
105	100		
120	38.9	34.4	51.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

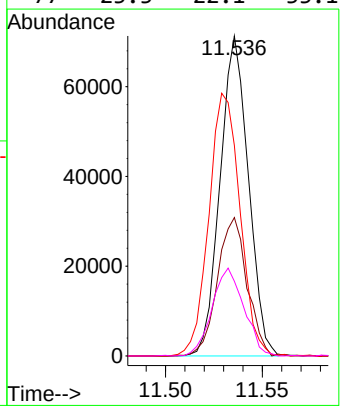
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

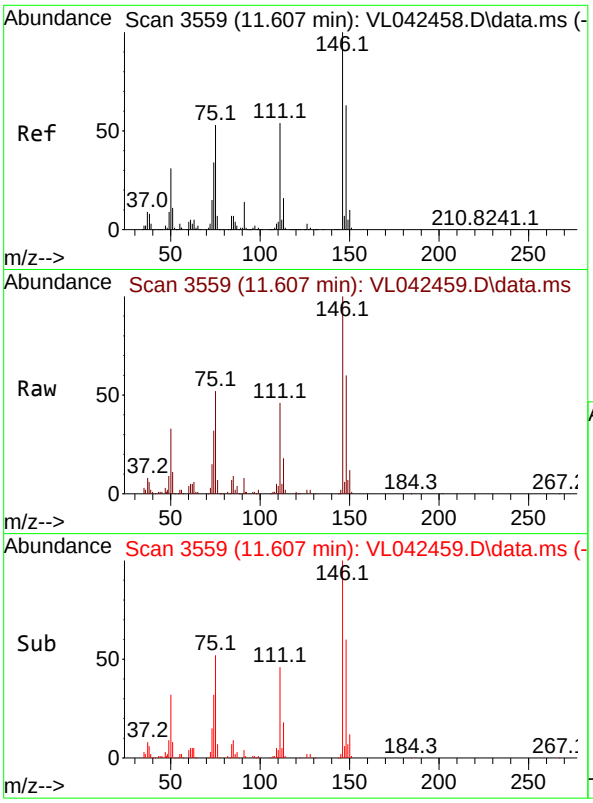


#74
1,2,4-Trimethylbenzene
Concen: 2.359 ppbv
RT: 11.536 min Scan# 3537
Delta R.T. -0.000 min
Lab File: VL042459.D
Acq: 01 May 2025 09:37

Tgt Ion:105 Resp: 72485

Ion	Ratio	Lower	Upper
105	100		
120	43.0	36.1	54.1
91	65.5	57.6	86.4
77	23.3	22.1	33.1

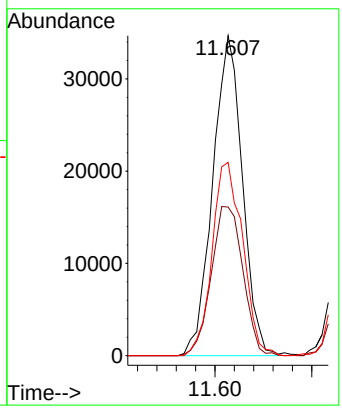




#75
1,3-Dichlorobenzene
Concen: 2.156 ppbv
RT: 11.607 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042459.D
Acq: 01 May 2025 09:37

Tgt Ion:146 Resp: 3688

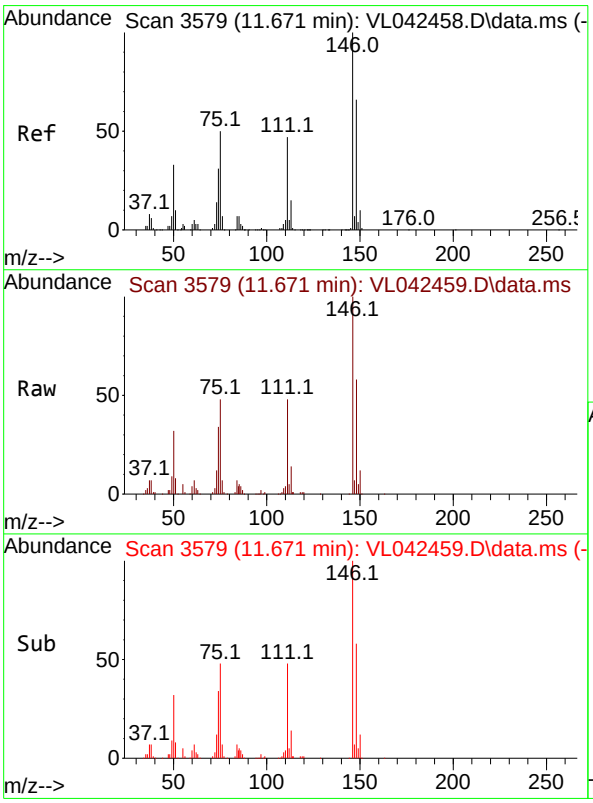
Ion	Ratio	Lower	Upper
146	100		
111	49.8	26.1	78.3
148	62.2	32.0	96.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

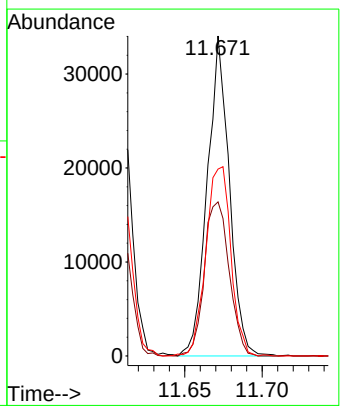
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

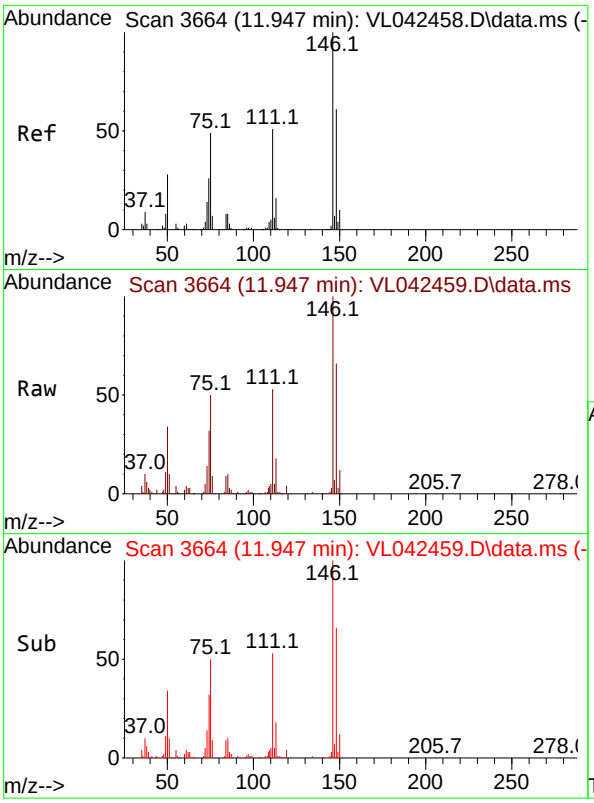


#76
1,4-Dichlorobenzene
Concen: 2.083 ppbv
RT: 11.671 min Scan# 3579
Delta R.T. -0.000 min
Lab File: VL042459.D
Acq: 01 May 2025 09:37

Tgt Ion:146 Resp: 33728

Ion	Ratio	Lower	Upper
146	100		
111	54.4	24.4	73.2
148	67.0	32.0	96.2

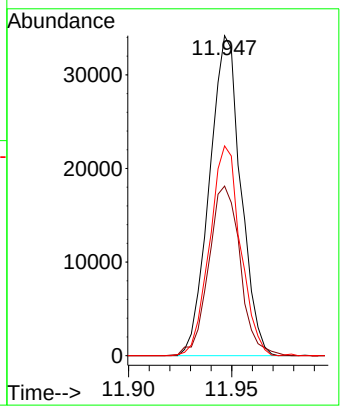




#77
1,2-Dichlorobenzene
Concen: 2.154 ppbv
RT: 11.947 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042459.D
Acq: 01 May 2025 09:37

Tgt Ion:146 Resp: 3607

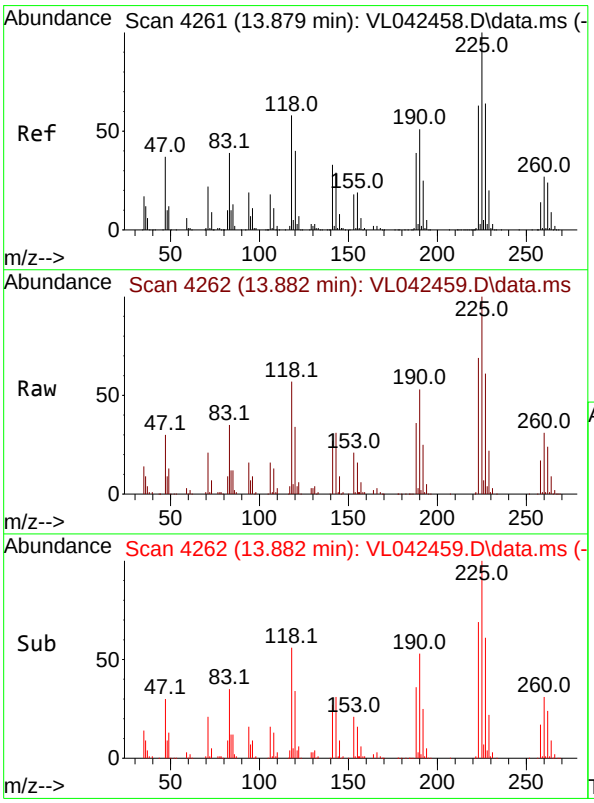
Ion	Ratio	Lower	Upper
146	100		
111	53.3	26.5	79.5
148	64.6	31.5	94.5



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

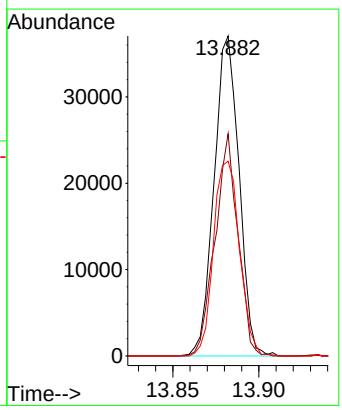
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

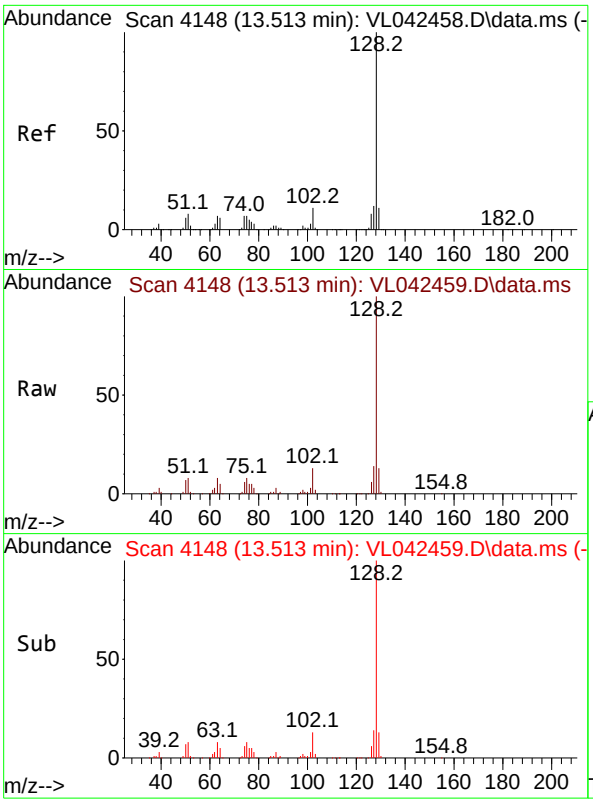


#78
Hexachloro-1,3-Butadiene
Concen: 2.234 ppbv
RT: 13.882 min Scan# 4262
Delta R.T. 0.003 min
Lab File: VL042459.D
Acq: 01 May 2025 09:37

Tgt Ion:225 Resp: 37360

Ion	Ratio	Lower	Upper
225	100		
223	63.7	50.2	75.4
227	63.5	51.2	76.8

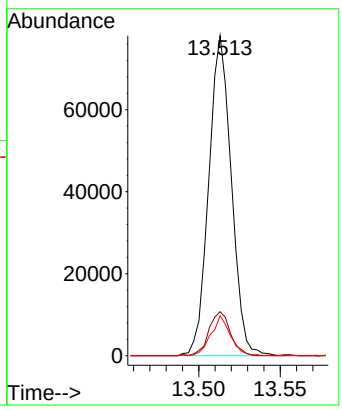




#79
Naphthalene
Concen: 2.920 ppbv
RT: 13.513 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042459.D
Acq: 01 May 2025 09:37

Tgt Ion:128 Resp: 7524

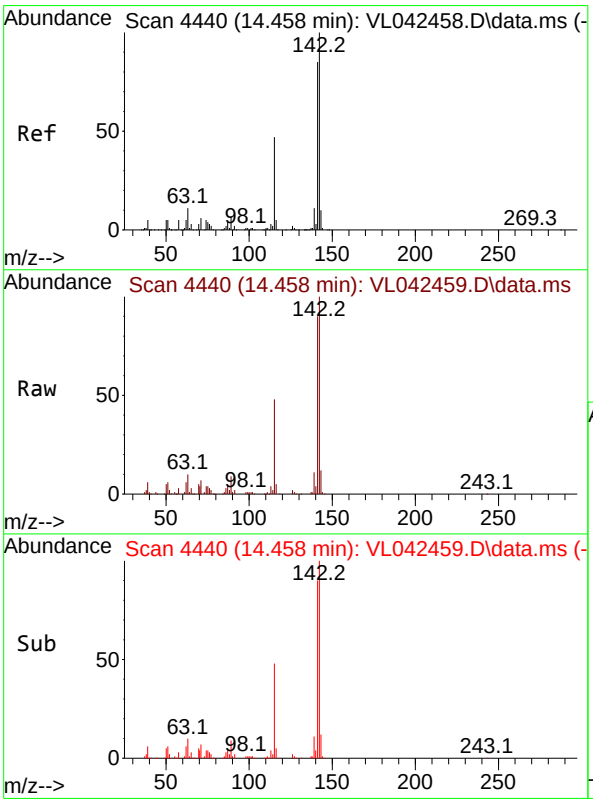
Ion	Ratio	Lower	Upper
128	100		
127	13.8	9.7	14.5
129	12.5	8.6	13.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

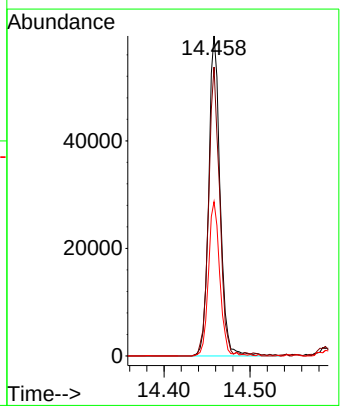
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

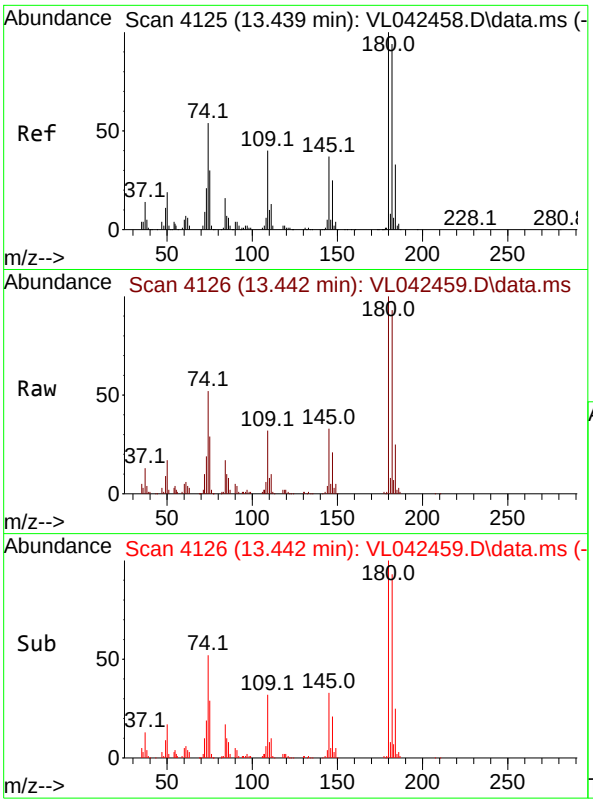


#80
Naphthalene,2-methyl-
Concen: 2.857 ppbv
RT: 14.458 min Scan# 4440
Delta R.T. -0.000 min
Lab File: VL042459.D
Acq: 01 May 2025 09:37

Tgt Ion:142 Resp: 54922

Ion	Ratio	Lower	Upper
142	100		
141	89.0	67.4	101.0
115	47.9	36.9	55.3

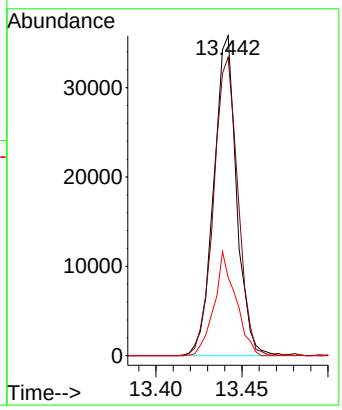




#81
1,2,4-Trichlorobenzene
Concen: 2.396 ppbv
RT: 13.442 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL042459.D
Acq: 01 May 2025 09:37

Tgt Ion:180 Resp: 3306

Ion	Ratio	Lower	Upper
180	100		
182	99.0	74.6	111.8
184	30.7	24.9	37.3



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050125\
Data File : VL042460.D
Acq On : 01 May 2025 10:08
Operator : SY/MD
Sample : VSTDICC001
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 02 01:41:24 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Fri May 02 01:37:48 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.784	49	71499	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.955	114	200111	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.881	117	170872	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.374	95	158600	10.011	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 100.100%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.499	85	11796	0.997	ppbv		96
3) Chlorodifluoromethane	1.476	51	13375	1.069	ppbv		96
4) Chloromethane	1.531	50	4975	1.006	ppbv		95
5) Vinyl Chloride	1.576	62	4469	0.898	ppbv		100
6) Bromomethane	1.667	94	2570	1.092	ppbv		86
7) Chloroethane	1.703	64	1943	1.057	ppbv		94
8) Dichlorotetrafluoroethane	1.554	85	9804	1.005	ppbv		91
9) Propene	1.482	41	4331	1.058	ppbv		88
10) Heptane	4.975	43	11681m	1.101	ppbv		
11) Trichlorofluoromethane	1.877	101	10649m	1.009	ppbv		
12) 1,1,2-Trichlorotrifluo...	2.140	101	8821	1.012	ppbv		97
13) Ethanol	1.719	45	975	1.174	ppbv	#	52
14) Bromoethene	1.780	108	3164	0.983	ppbv	#	91
15) Acetone	1.835	43	14974	1.147	ppbv		98
16) 1,3-Butadiene	1.609	39	6248	1.085	ppbv		96
17) tert-Butyl alcohol	2.039	59	11546	1.004	ppbv	#	91
18) 1,1-Dichloroethene	2.033	96	4200	1.032	ppbv		86
19) Isopropyl Alcohol	1.884	45	7775	1.076	ppbv		99
20) Methylene Chloride	2.059	84	3909	0.996	ppbv		86
21) Allyl Chloride	2.094	41	8443	1.006	ppbv		94
22) trans-1,2-Dichloroethene	2.337	96	5305	1.116	ppbv		88
23) Vinyl Acetate	2.460	43	10876	0.894	ppbv	#	94
24) 1,1-Dichloroethane	2.405	63	10477	1.080	ppbv		97
25) Ethyl Acetate	2.835	43	21761	1.041	ppbv		99
26) Hexane	2.822	57	9223	1.013	ppbv		97
27) Carbon Disulfide	2.149	76	10342	0.973	ppbv	#	21
28) Methyl tert-Butyl Ether	2.441	73	6101	1.115	ppbv		93
29) Chloroform	2.848	83	17744	1.040	ppbv		97
30) Cyclohexane	3.852	84	7139	0.938	ppbv		88
31) cis-1,2-Dichloroethene	2.719	61	11472	1.080	ppbv		87
32) 1,1,1-Trichloroethane	3.366	97	17881	0.966	ppbv		98
34) 2-Butanone	2.560	43	14641	1.012	ppbv		94
35) Carbon Tetrachloride	3.755	117	18704	1.075	ppbv	#	76
36) Benzene	3.654	78	19493	1.032	ppbv	#	94
37) 1,2-Dichloroethane	3.214	62	15116	1.039	ppbv		98
38) Trichloroethene	4.541	130	7278m	1.011	ppbv		
39) 1,2-Dichloropropane	4.302	63	8103m	1.145	ppbv		
40) 1,4-Dioxane	4.593	88	3703m	1.126	ppbv		
41) Tetrahydrofuran	3.062	42	7091m	1.033	ppbv		
42) Bromodichloromethane	4.486	83	18427	1.036	ppbv	#	81
43) Methyl Methacrylate	4.874	69	6829m	0.971	ppbv		
44) 2,2,4-Trimethylpentane	4.635	57	31820m	1.043	ppbv		
45) t-1,3-Dichloropropene	6.409	75	8461m	0.914	ppbv		

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050125\
Data File : VL042460.D
Acq On : 01 May 2025 10:08
Operator : SY/MD
Sample : VSTDICC001
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 02 01:41:24 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Fri May 02 01:37:48 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) cis-1,3-Dichloropropene	5.596	75	10781m	0.981	ppbv		
47) 1,1,2-Trichloroethane	6.583	97	8183m	1.055	ppbv		
48) Dibromochloromethane	7.386	129	12859m	0.982	ppbv		
49) Bromoform	9.483	173	10709	0.976	ppbv		97
50) 4-Methyl-2-Pentanone	5.768	43	19618m	1.072	ppbv		
51) 2-Hexanone	7.448	43	15091m	1.030	ppbv		
52) Tetrachloroethene	8.221	164	6780	0.943	ppbv		86
53) Toluene	6.930	91	19390	0.970	ppbv		97
54) 1,2-Dibromoethane	7.655	107	11980	1.005	ppbv		91
56) 1,1,1,2-Tetrachloroethane	8.920	131	10811	1.071	ppbv		94
57) Chlorobenzene	8.917	112	18111	1.055	ppbv		90
58) Ethyl Benzene	9.354	91	27914	0.978	ppbv		97
59) m/p-Xylene	9.548	91	47105m	1.968	ppbv		
60) o-Xylene	9.962	91	23806	0.995	ppbv		98
61) Styrene	9.872	104	8537	0.954	ppbv		98
62) Isopropylbenzene	10.539	105	34679	1.003	ppbv		98
63) 1,1,2,2-Tetrachloroethane	9.962	83	16837	1.084	ppbv		98
64) n-propylbenzene	10.985	120	8958	1.064	ppbv		86
65) tert-Butylbenzene	11.529	119	30604	0.992	ppbv		95
66) Benzyl Chloride	11.613	91	3486	0.978	ppbv	#	96
67) sec-Butylbenzene	11.765	105	43740	0.998	ppbv		98
69) p-Isopropyltoluene	11.927	119	37011	1.002	ppbv		99
70) n-Butylbenzene	12.280	91	37892	0.992	ppbv		97
71) 2-Chlorotoluene	10.898	91	26813	0.989	ppbv		99
72) 4-Ethyltoluene	11.124	105	28149	0.996	ppbv		96
73) 1,3,5-Trimethylbenzene	11.202	105	25073	1.009	ppbv		97
74) 1,2,4-Trimethylbenzene	11.535	105	30550	1.016	ppbv		92
75) 1,3-Dichlorobenzene	11.607	146	17456	1.043	ppbv		98
76) 1,4-Dichlorobenzene	11.671	146	16151	1.019	ppbv		99
77) 1,2-Dichlorobenzene	11.947	146	17207	1.050	ppbv		94
78) Hexachloro-1,3-Butadiene	13.879	225	18472	1.129	ppbv		98
79) Naphthalene	13.513	128	28316	1.123	ppbv	#	94
80) Naphthalene,2-methyl-	14.458	142	15804	0.840	ppbv		93
81) 1,2,4-Trichlorobenzene	13.439	180	13644	1.011	ppbv		96

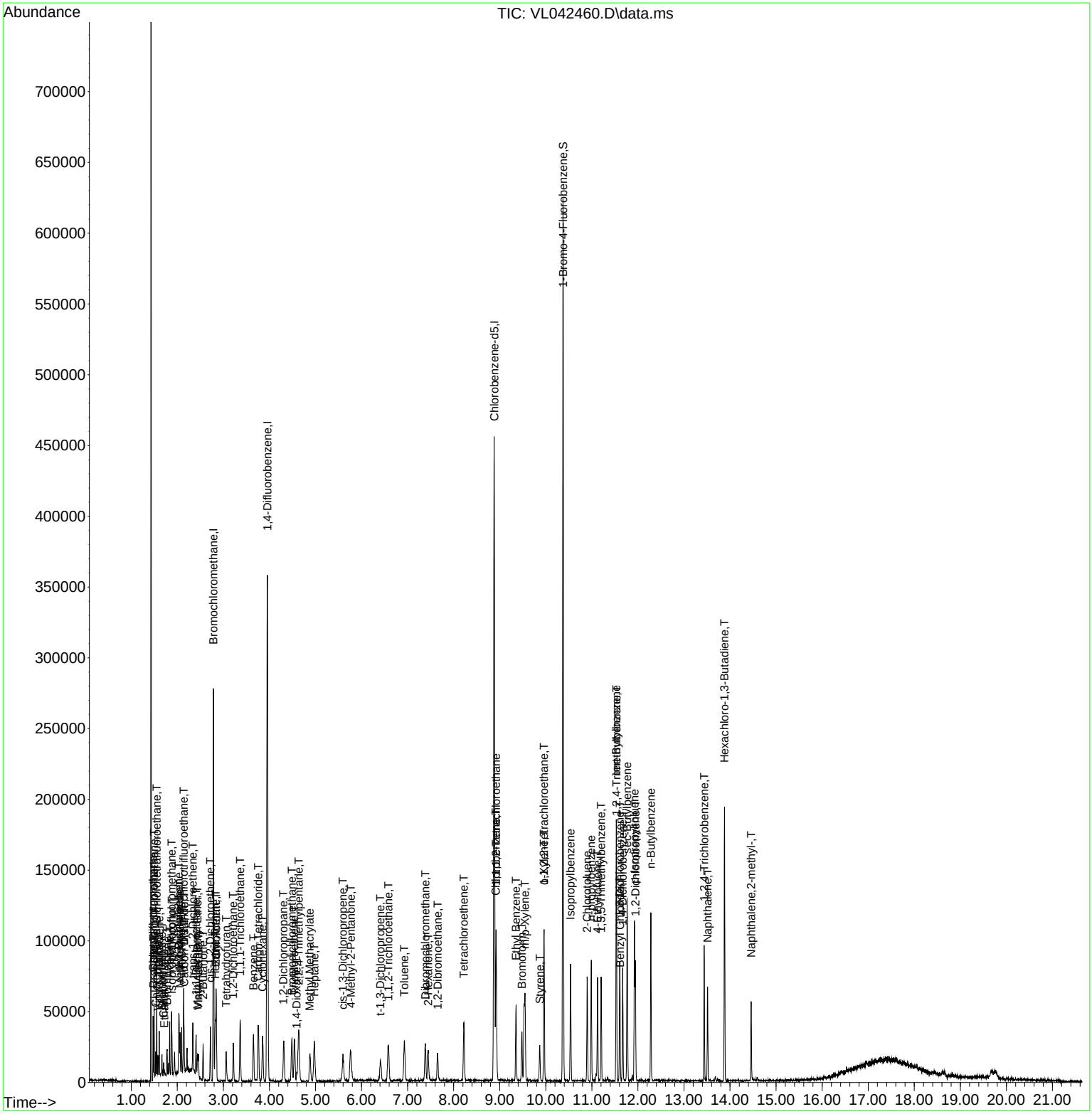
(#) = qualifier out of range (m) = manual integration (+) = signals summed

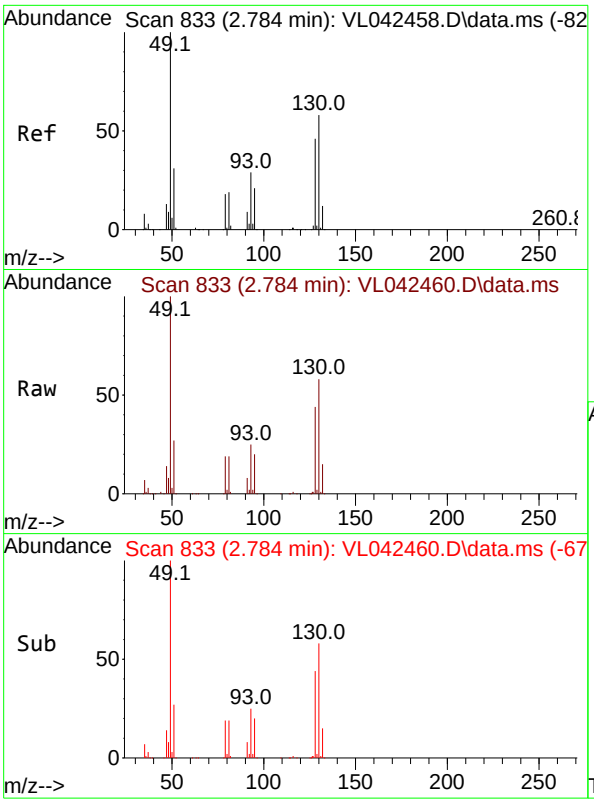
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050125\
Data File : VL042460.D
Acq On : 01 May 2025 10:08
Operator : SY/MD
Sample : VSTDICC001
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 02 01:41:24 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri May 02 01:37:48 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

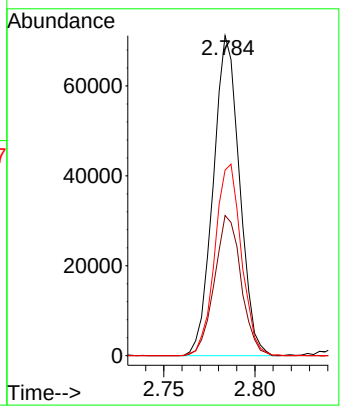




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL042460.D
Acq: 01 May 2025 10:08

Tgt Ion: 49 Resp: 7149

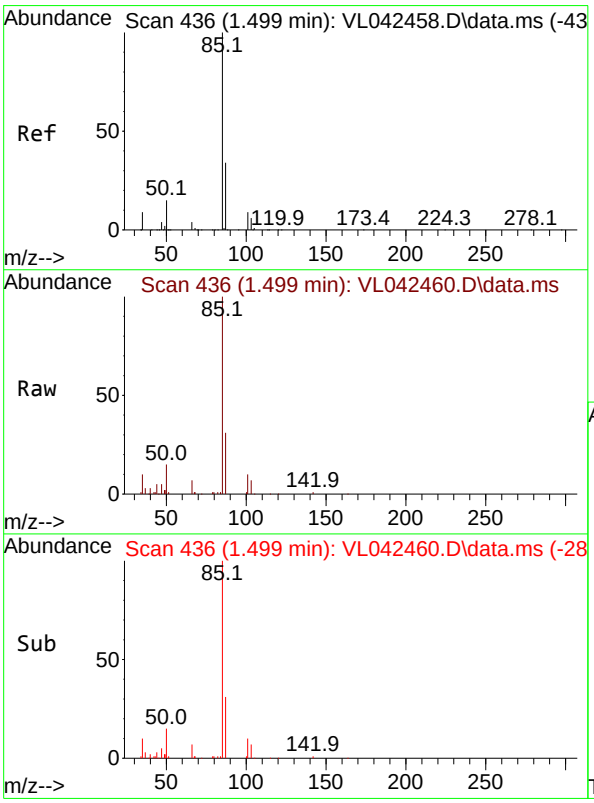
Ion	Ratio	Lower	Upper
49	100		
128	44.3	23.3	69.9
130	60.4	29.5	88.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

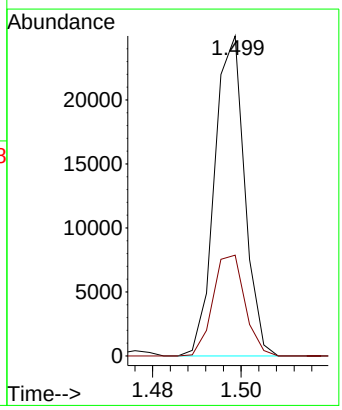
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

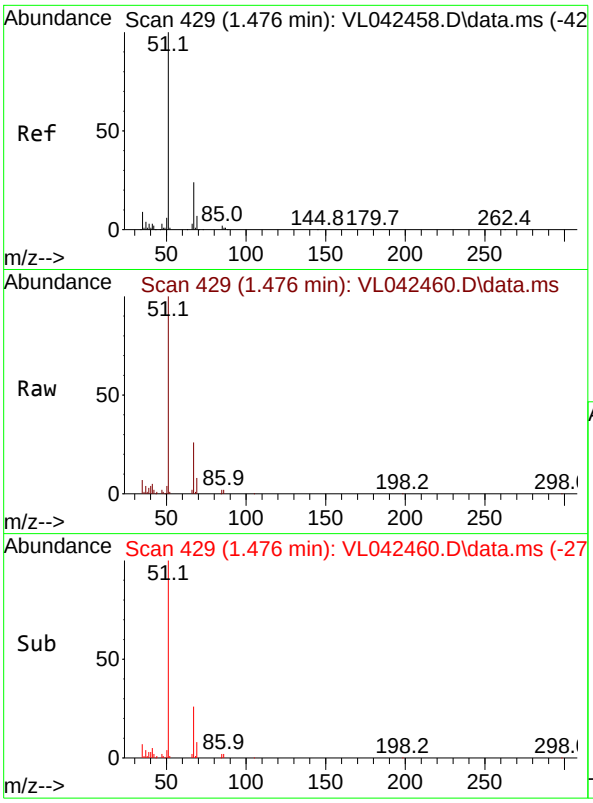


#2
Dichlorodifluoromethane
Concen: 0.997 ppbv
RT: 1.499 min Scan# 436
Delta R.T. -0.000 min
Lab File: VL042460.D
Acq: 01 May 2025 10:08

Tgt Ion: 85 Resp: 11796

Ion	Ratio	Lower	Upper
85	100		
87	31.5	26.9	40.3

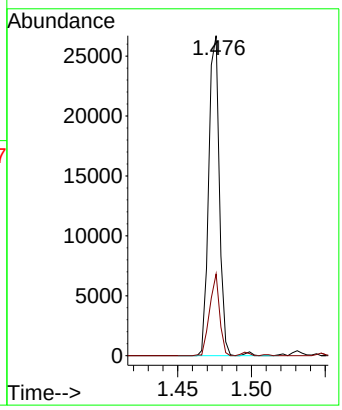




#3
Chlorodifluoromethane
Concen: 1.069 ppbv
RT: 1.476 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042460.D
Acq: 01 May 2025 10:08

Tgt Ion: 51 Resp: 1337

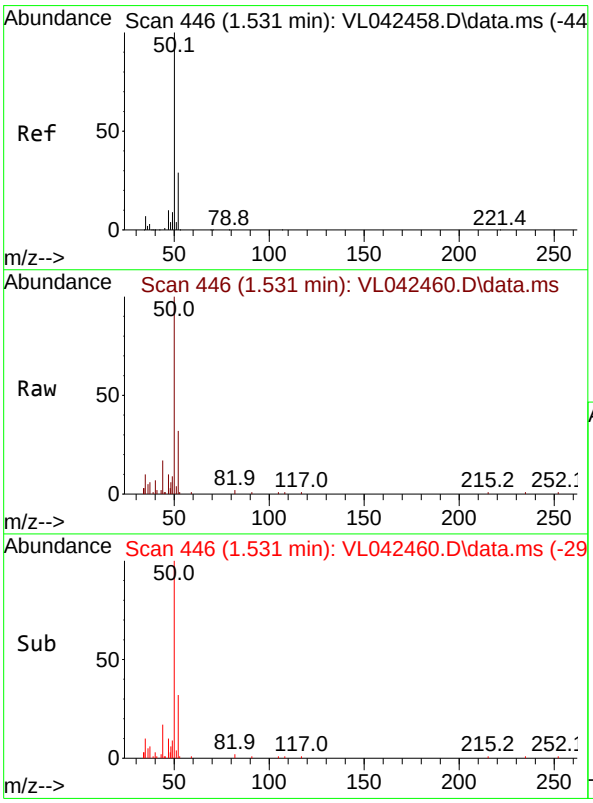
Ion	Ratio	Lower	Upper
51	100		
67	24.9	18.4	27.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

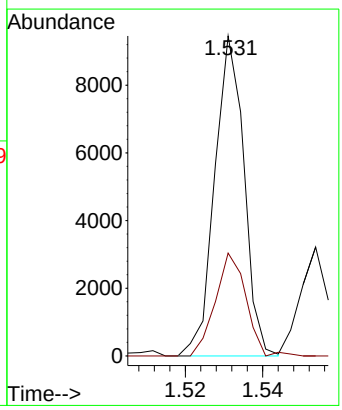
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

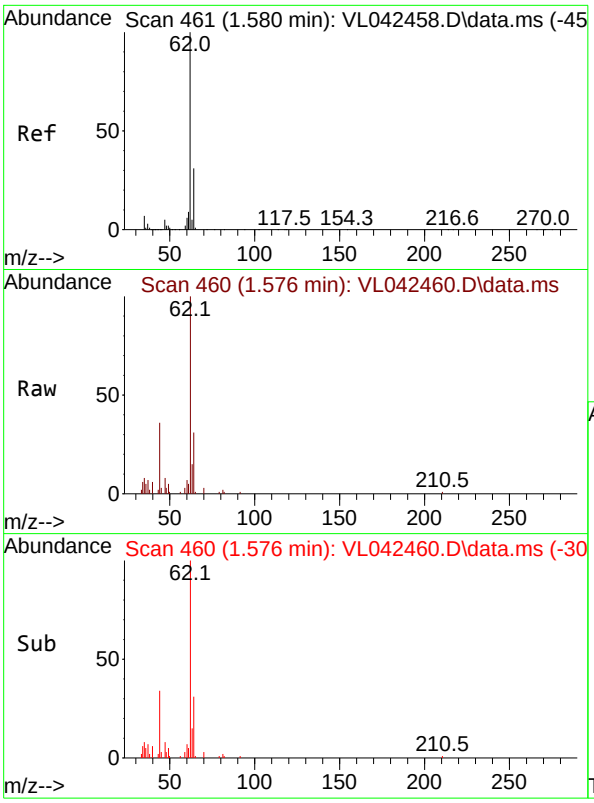


#4
Chloromethane
Concen: 1.006 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042460.D
Acq: 01 May 2025 10:08

Tgt Ion: 50 Resp: 4975

Ion	Ratio	Lower	Upper
50	100		
52	32.1	23.5	35.3





#5
Vinyl Chloride
Concen: 0.898 ppbv
RT: 1.576 min Scan# 4
Delta R.T. -0.003 min
Lab File: VL042460.D
Acq: 01 May 2025 10:08

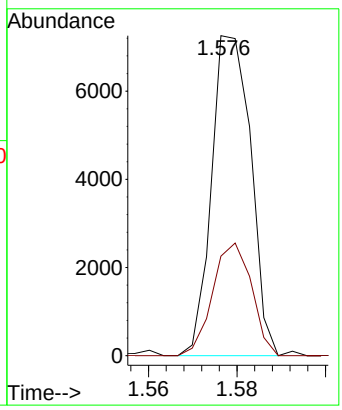
Tgt Ion: 62 Resp: 446

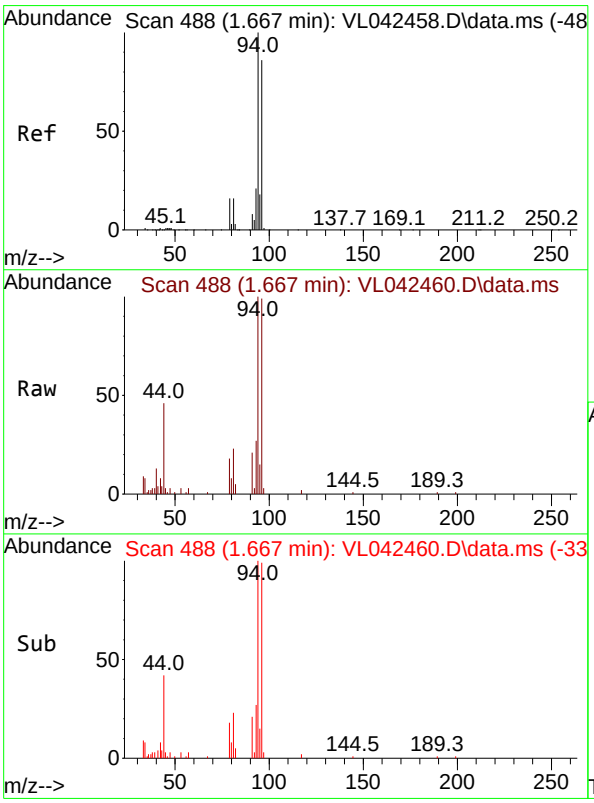
Ion	Ratio	Lower	Upper
62	100		
64	31.1	24.9	37.3

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

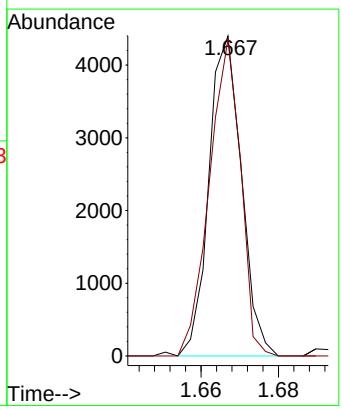


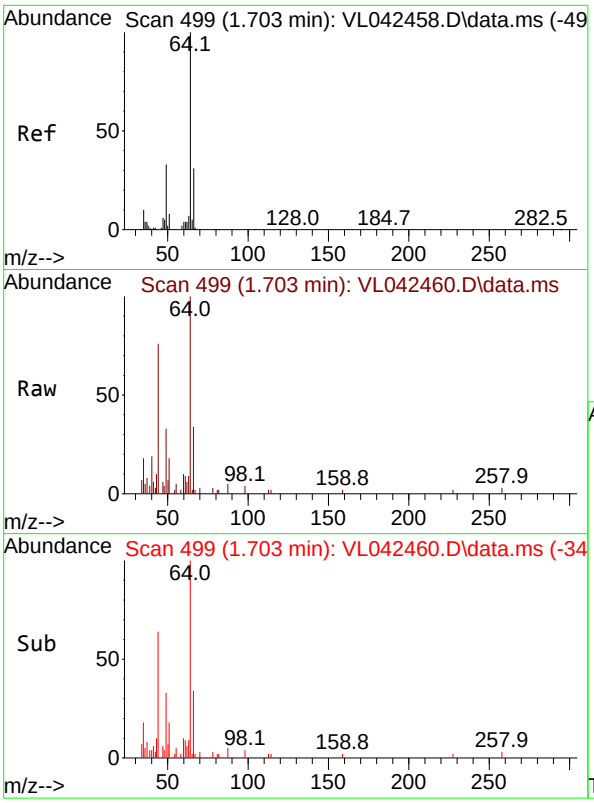


#6
Bromomethane
Concen: 1.092 ppbv
RT: 1.667 min Scan# 488
Delta R.T. -0.000 min
Lab File: VL042460.D
Acq: 01 May 2025 10:08

Tgt Ion: 94 Resp: 2570

Ion	Ratio	Lower	Upper
94	100		
96	99.0	68.8	103.2

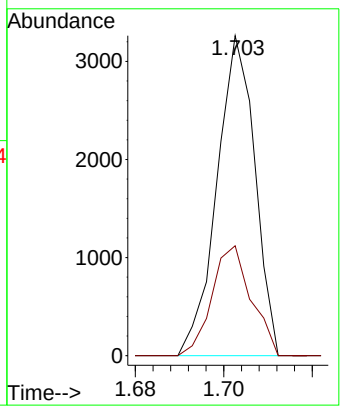




#7
Chloroethane
Concen: 1.057 ppbv
RT: 1.703 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042460.D
Acq: 01 May 2025 10:08

Tgt Ion: 64 Resp: 194

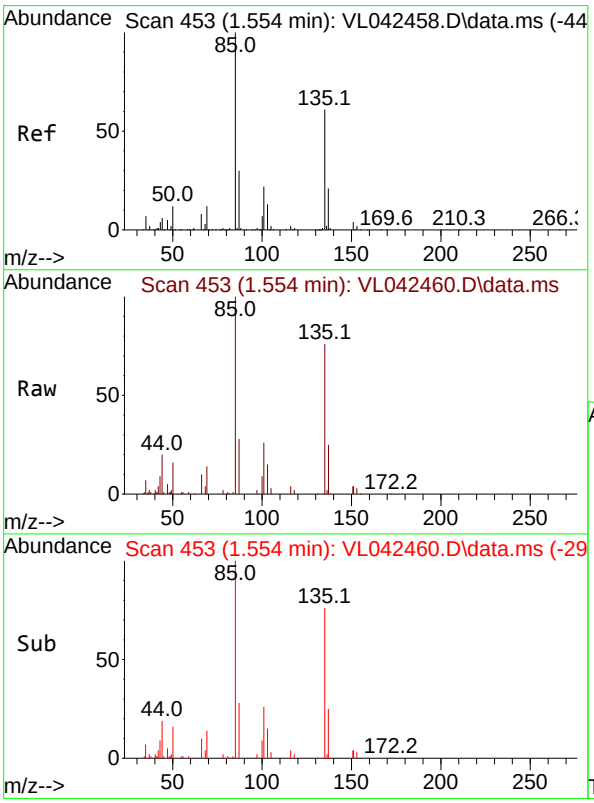
Ion	Ratio	Lower	Upper
64	100		
66	34.4	25.0	37.4



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

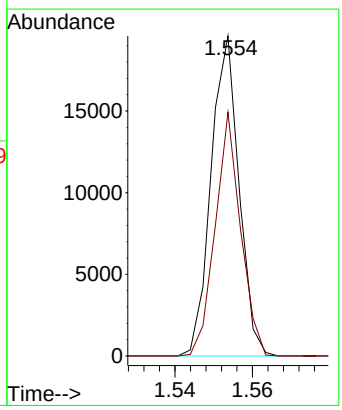
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

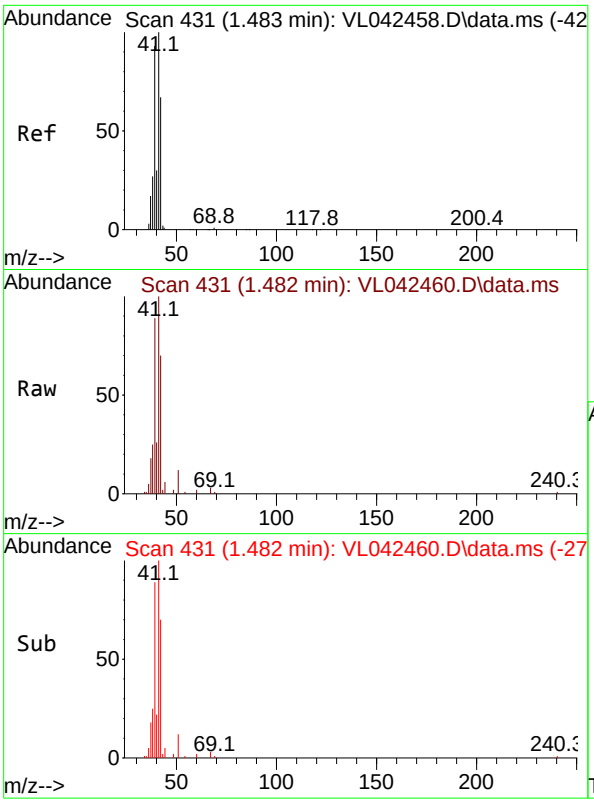


#8
Dichlorotetrafluoroethane
Concen: 1.005 ppbv
RT: 1.554 min Scan# 453
Delta R.T. -0.000 min
Lab File: VL042460.D
Acq: 01 May 2025 10:08

Tgt Ion: 85 Resp: 9804

Ion	Ratio	Lower	Upper
85	100		
135	69.3	49.8	74.8

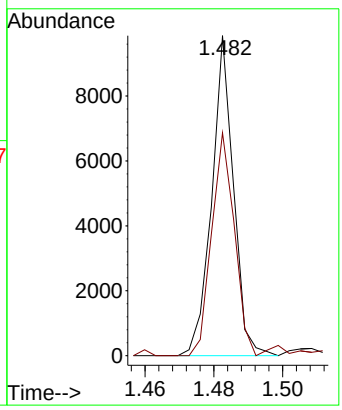




#9
Propene
Concen: 1.058 ppbv
RT: 1.482 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042460.D
Acq: 01 May 2025 10:08

Tgt Ion: 41 Resp: 433

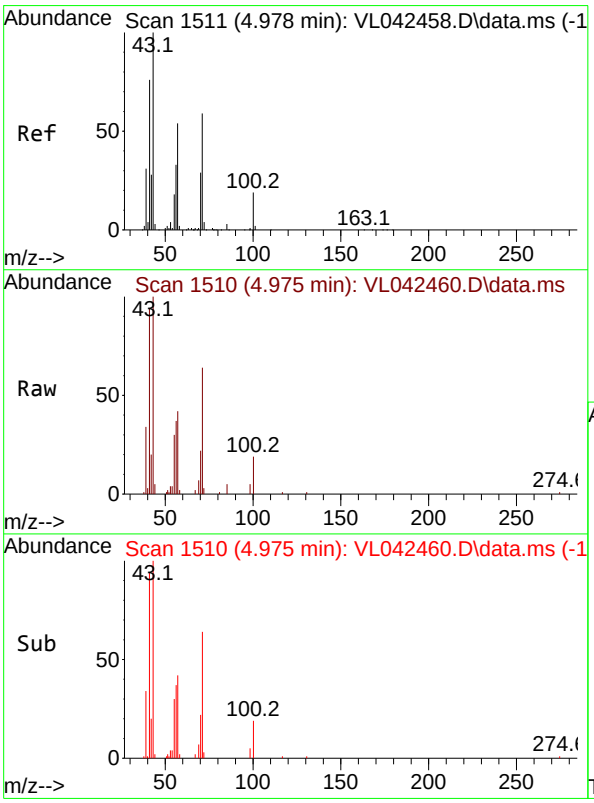
Ion	Ratio	Lower	Upper
41	100		
42	77.9	54.3	81.5



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

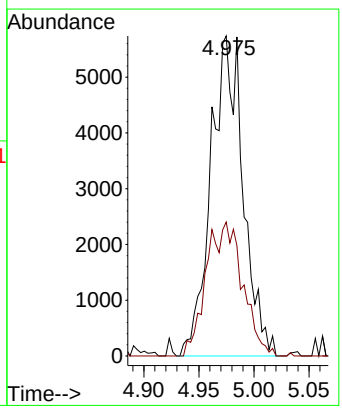
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

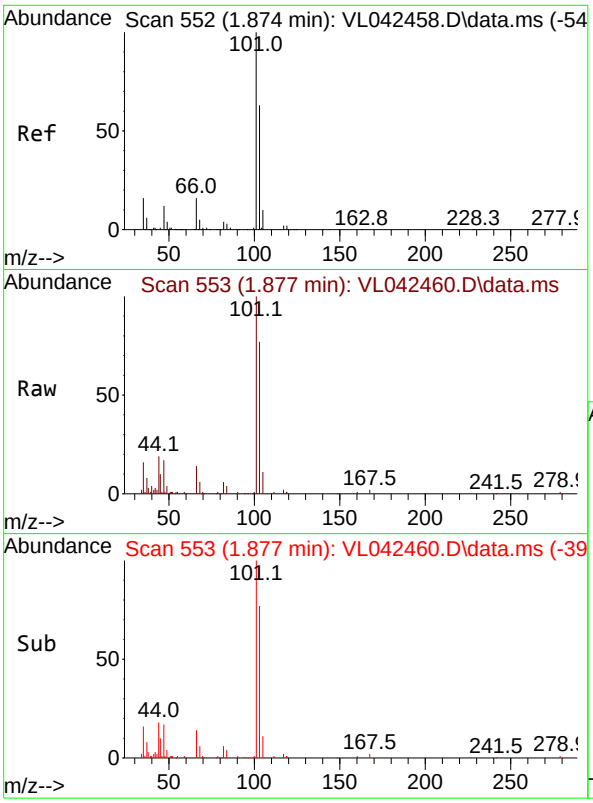


#10
Heptane
Concen: 1.101 ppbv m
RT: 4.975 min Scan# 1510
Delta R.T. -0.003 min
Lab File: VL042460.D
Acq: 01 May 2025 10:08

Tgt Ion: 43 Resp: 11681

Ion	Ratio	Lower	Upper
43	100		
57	47.3	41.8	62.8

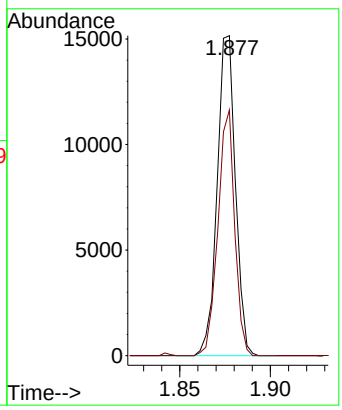




#11
Trichlorofluoromethane
Concen: 1.009 ppbv m
RT: 1.877 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042460.D
Acq: 01 May 2025 10:08

Tgt Ion:101 Resp: 1064

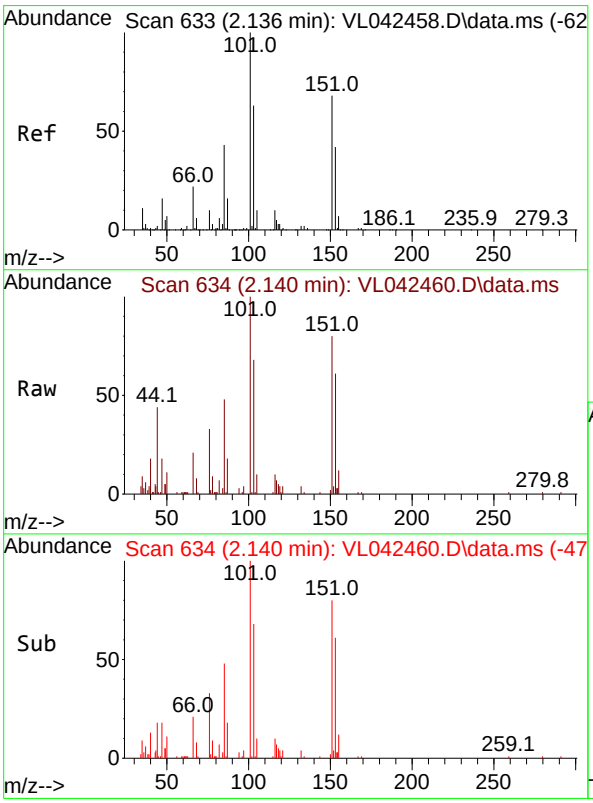
Ion	Ratio	Lower	Upper
101	100		
103	76.7	50.6	76.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

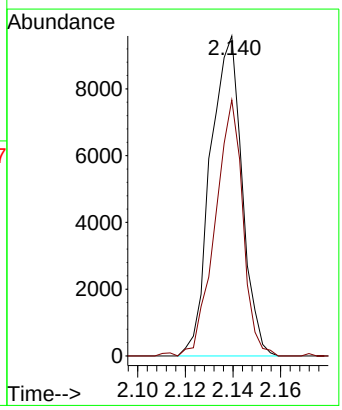
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

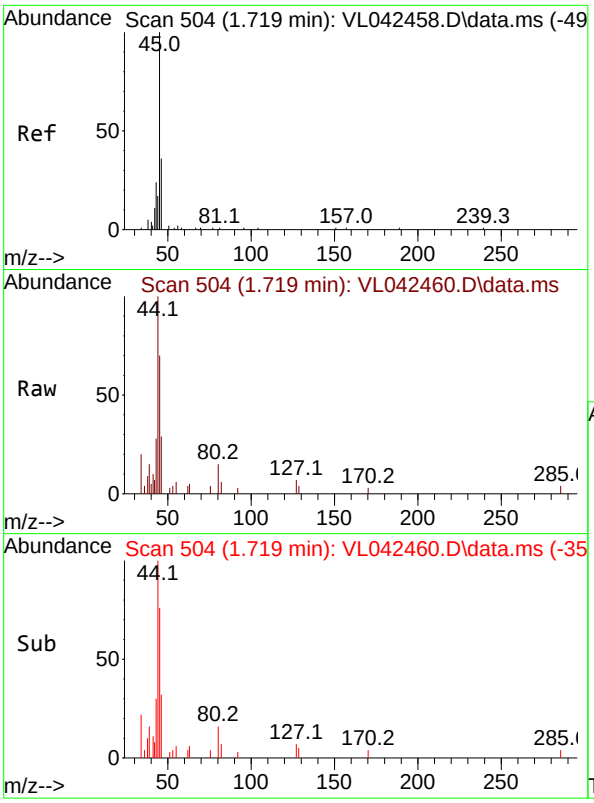


#12
1,1,2-Trichlorotrifluoroethane
Concen: 1.012 ppbv
RT: 2.140 min Scan# 634
Delta R.T. 0.003 min
Lab File: VL042460.D
Acq: 01 May 2025 10:08

Tgt Ion:101 Resp: 8821

Ion	Ratio	Lower	Upper
101	100		
151	70.5	54.6	82.0





#13
Ethanol
Concen: 1.174 ppbv
RT: 1.719 min Scan# 5(
Delta R.T. -0.000 min
Lab File: VL042460.D
Acq: 01 May 2025 10:08

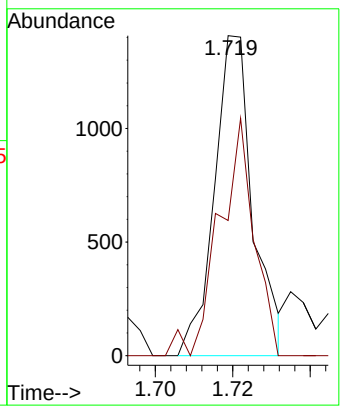
Tgt Ion: 45 Resp: 97!

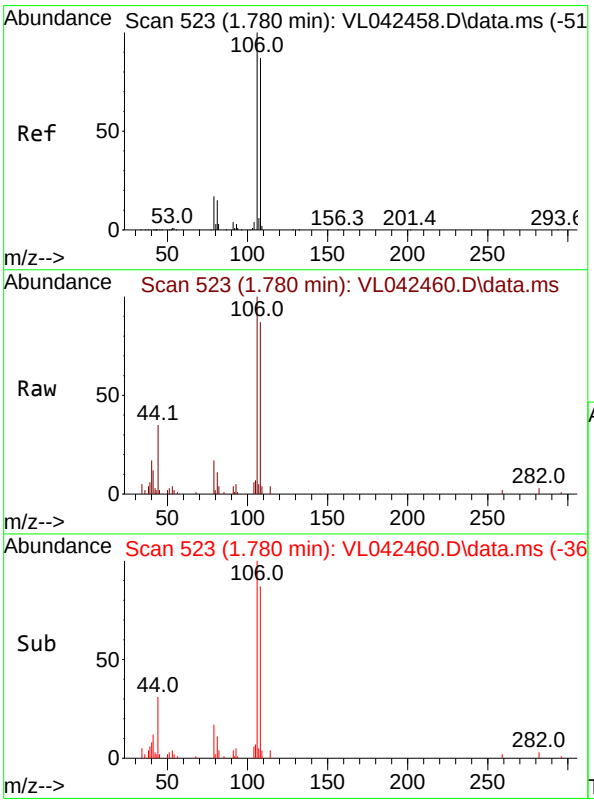
Ion	Ratio	Lower	Upper
45	100		
46	67.2	15.3	61.1#

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

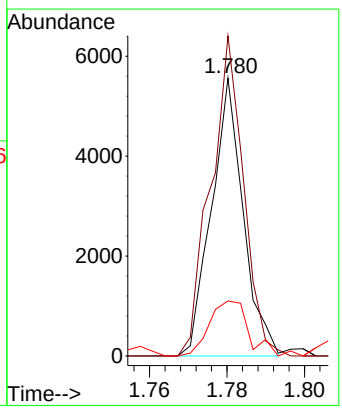


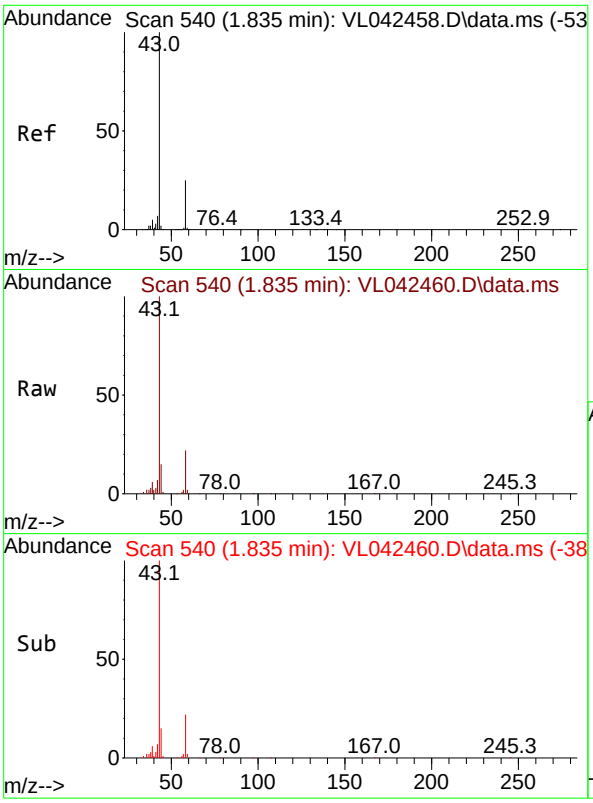


#14
Bromoethene
Concen: 0.983 ppbv
RT: 1.780 min Scan# 523
Delta R.T. -0.000 min
Lab File: VL042460.D
Acq: 01 May 2025 10:08

Tgt Ion:108 Resp: 3164

Ion	Ratio	Lower	Upper
108	100		
106	119.2	88.8	133.2
79	28.5	17.1	25.7#

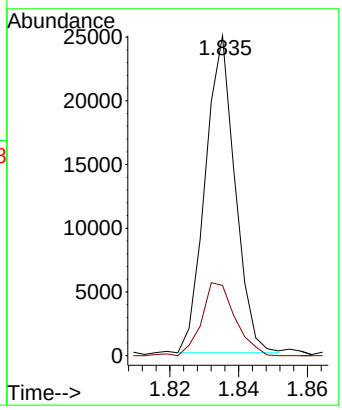




#15
Acetone
Concen: 1.147 ppbv
RT: 1.835 min Scan# 54
Delta R.T. -0.000 min
Lab File: VL042460.D
Acq: 01 May 2025 10:08

Tgt Ion: 43 Resp: 1497

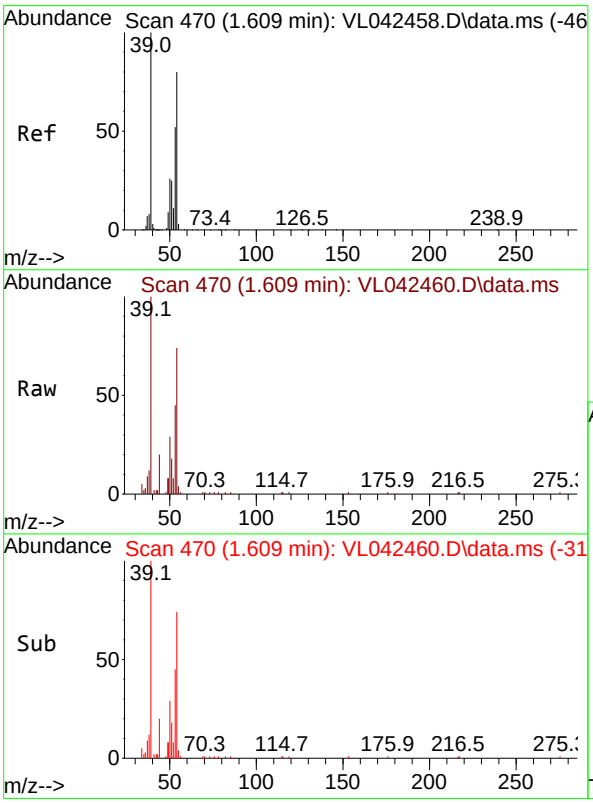
Ion	Ratio	Lower	Upper
43	100		
58	25.9	19.8	29.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

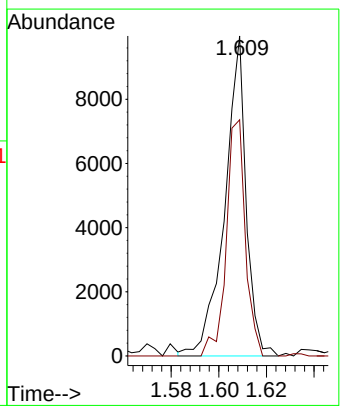
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

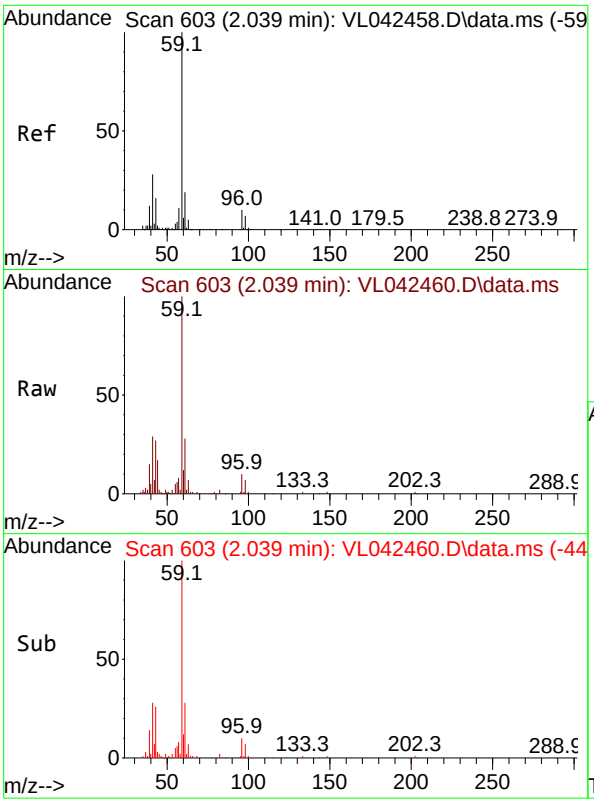


#16
1,3-Butadiene
Concen: 1.085 ppbv
RT: 1.609 min Scan# 470
Delta R.T. -0.000 min
Lab File: VL042460.D
Acq: 01 May 2025 10:08

Tgt Ion: 39 Resp: 6248

Ion	Ratio	Lower	Upper
39	100		
54	65.7	55.2	82.8

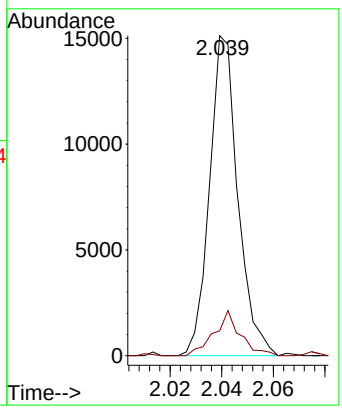




#17
tert-Butyl alcohol
Concen: 1.004 ppbv
RT: 2.039 min Scan# 6
Delta R.T. -0.000 min
Lab File: VL042460.D
Acq: 01 May 2025 10:08

Tgt Ion: 59 Resp: 1154

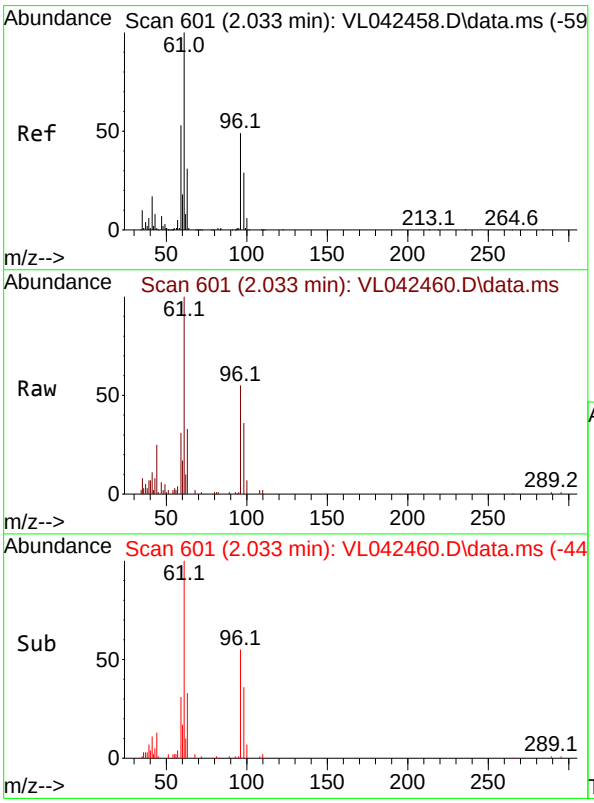
Ion	Ratio	Lower	Upper
59	100		
57	13.7	8.3	12.5#



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

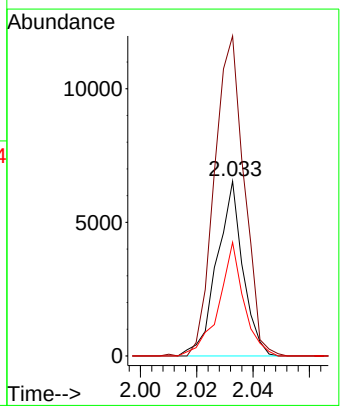
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

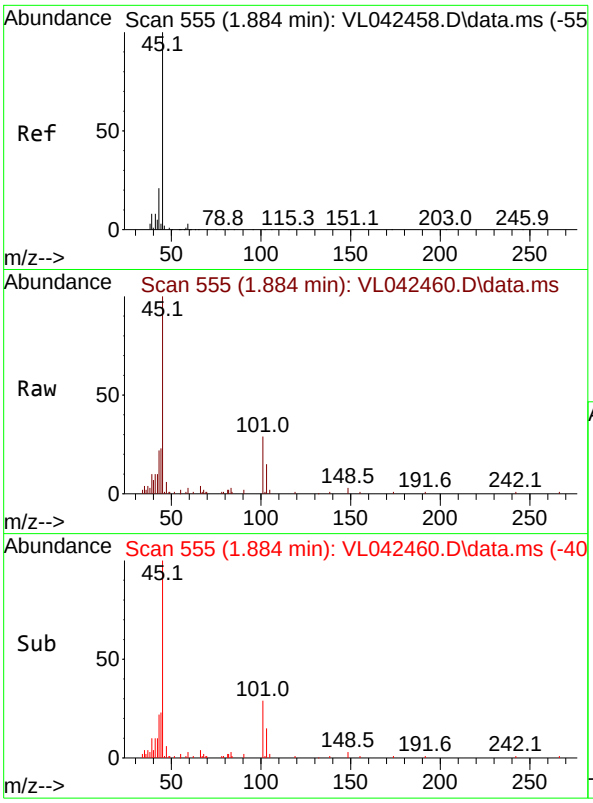


#18
1,1-Dichloroethene
Concen: 1.032 ppbv
RT: 2.033 min Scan# 601
Delta R.T. -0.000 min
Lab File: VL042460.D
Acq: 01 May 2025 10:08

Tgt Ion: 96 Resp: 4200

Ion	Ratio	Lower	Upper
96	100		
61	181.9	164.9	247.3
98	65.1	48.2	72.2

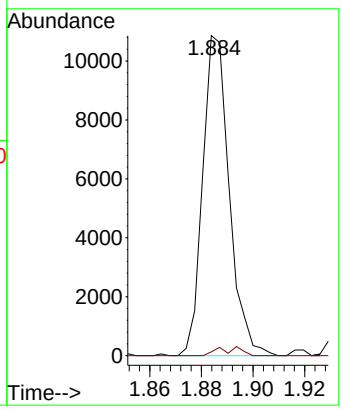




#19
Isopropyl Alcohol
Concen: 1.076 ppbv
RT: 1.884 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL042460.D
Acq: 01 May 2025 10:08

Tgt Ion: 45 Resp: 777

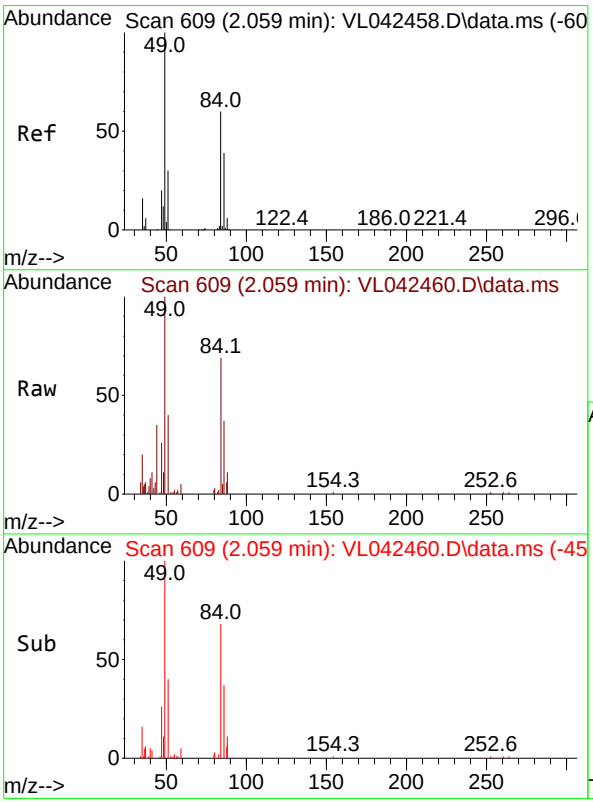
Ion	Ratio	Lower	Upper
45	100		
58	2.3	1.6	2.4



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

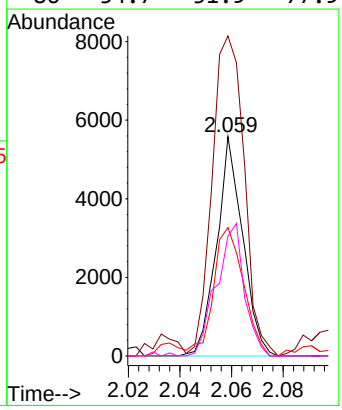
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

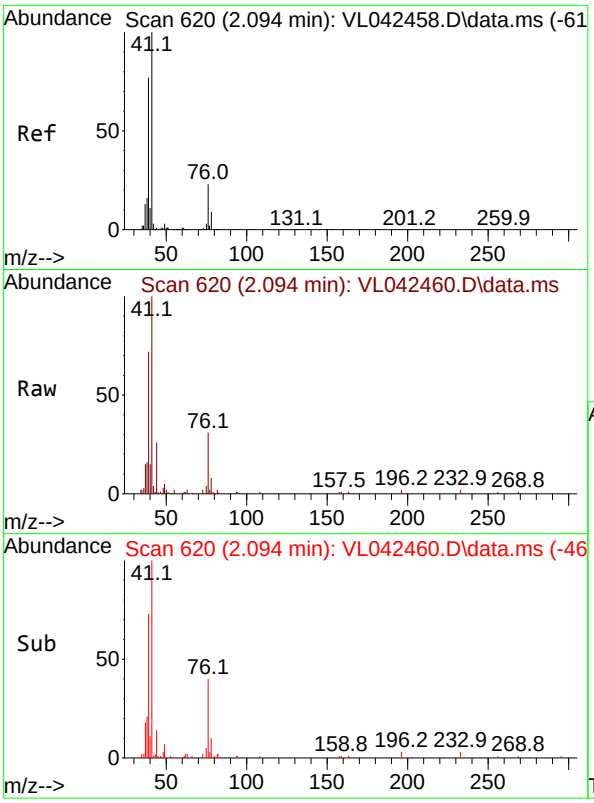


#20
Methylene Chloride
Concen: 0.996 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.000 min
Lab File: VL042460.D
Acq: 01 May 2025 10:08

Tgt Ion: 84 Resp: 3909

Ion	Ratio	Lower	Upper
84	100		
49	145.9	133.9	200.9
51	58.5	41.0	61.6
86	54.7	51.9	77.9

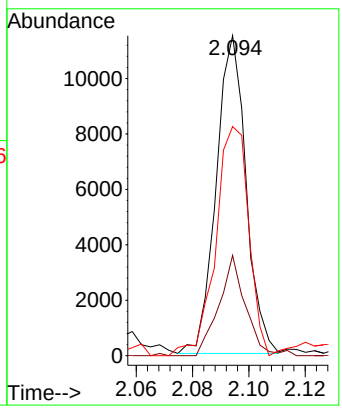




#21
Allyl Chloride
Concen: 1.006 ppbv
RT: 2.094 min Scan# 6
Delta R.T. -0.000 min
Lab File: VL042460.D
Acq: 01 May 2025 10:08

Tgt Ion: 41 Resp: 844

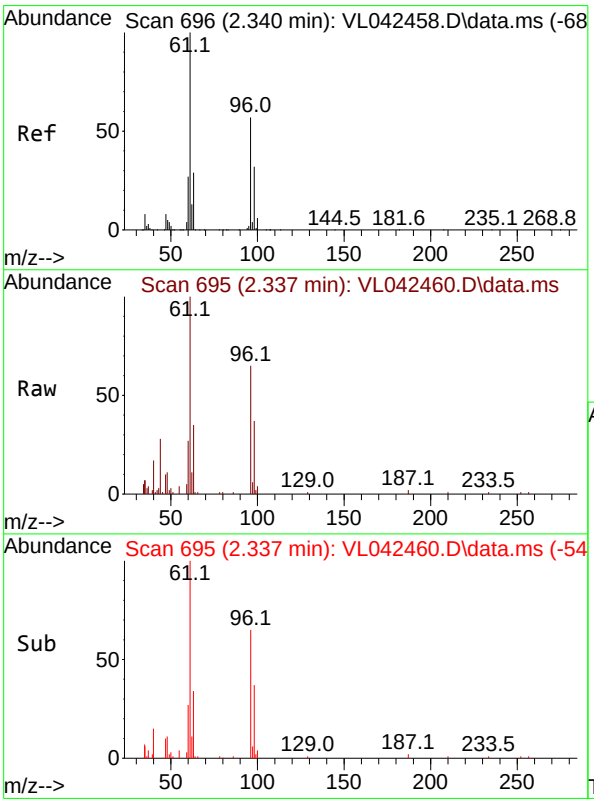
Ion	Ratio	Lower	Upper
41	100		
76	28.4	19.6	29.4
39	81.3	61.0	91.4



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

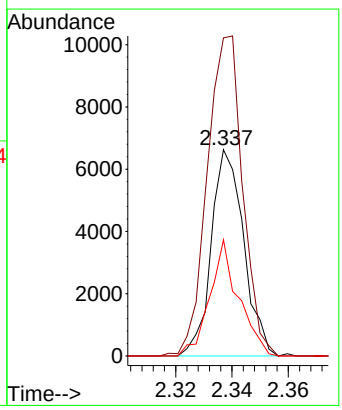
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

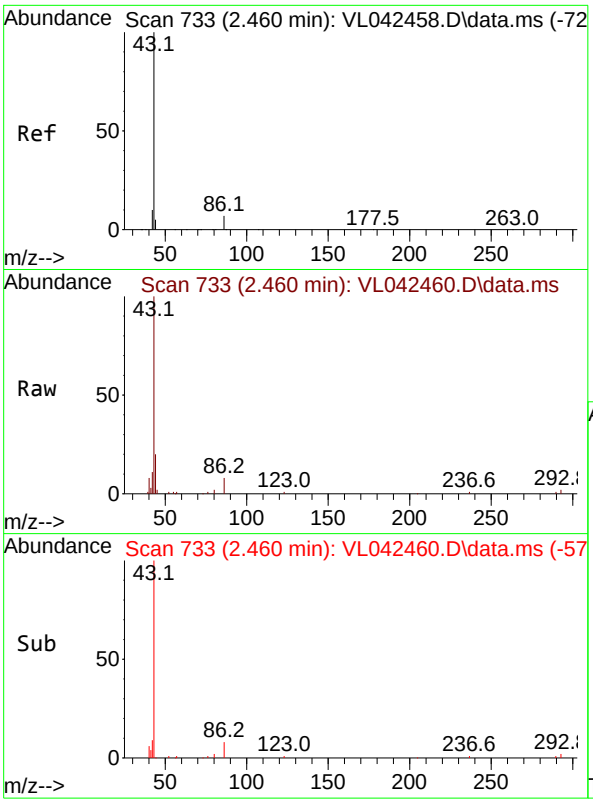


#22
trans-1,2-Dichloroethene
Concen: 1.116 ppbv
RT: 2.337 min Scan# 695
Delta R.T. -0.003 min
Lab File: VL042460.D
Acq: 01 May 2025 10:08

Tgt Ion: 96 Resp: 5305

Ion	Ratio	Lower	Upper
96	100		
61	154.3	141.8	212.6
98	56.3	45.0	67.6

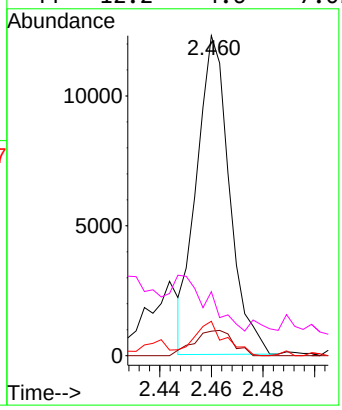




#23
Vinyl Acetate
Concen: 0.894 ppbv
RT: 2.460 min Scan# 7
Delta R.T. -0.000 min
Lab File: VL042460.D
Acq: 01 May 2025 10:08

Tgt Ion: 43 Resp: 1087

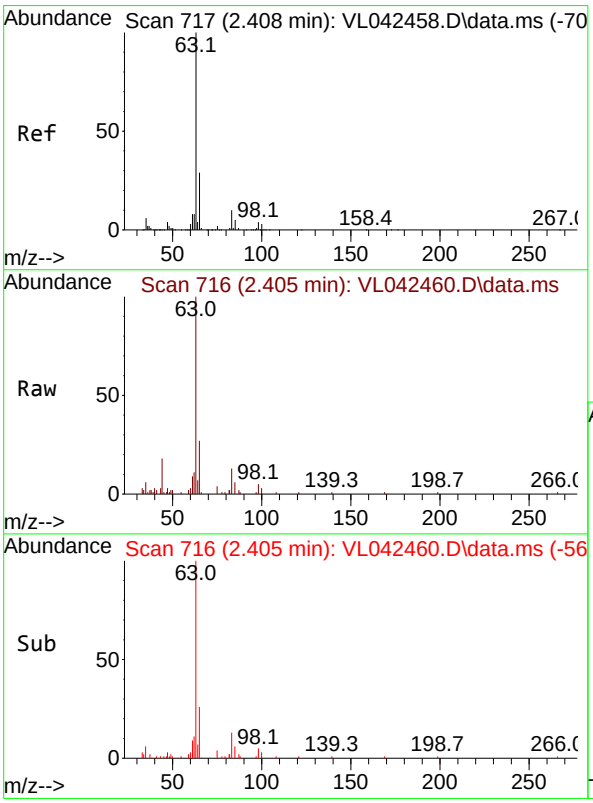
Ion	Ratio	Lower	Upper
43	100		
86	7.7	5.5	8.3
42	10.3	8.3	12.5
44	12.2	4.6	7.0#



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

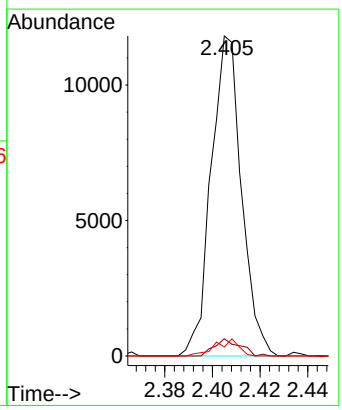
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

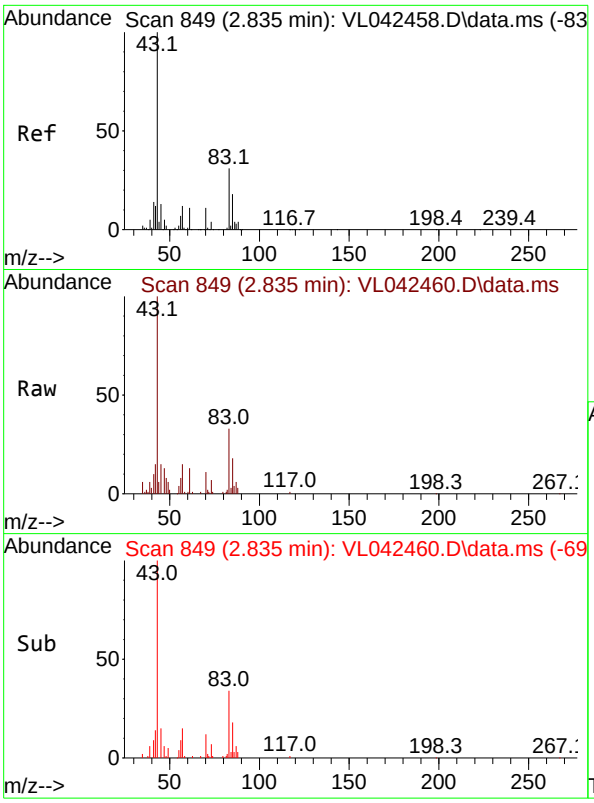


#24
1,1-Dichloroethane
Concen: 1.080 ppbv
RT: 2.405 min Scan# 716
Delta R.T. -0.003 min
Lab File: VL042460.D
Acq: 01 May 2025 10:08

Tgt Ion: 63 Resp: 10477

Ion	Ratio	Lower	Upper
63	100		
98	5.4	1.8	5.5
100	2.9	1.4	4.2

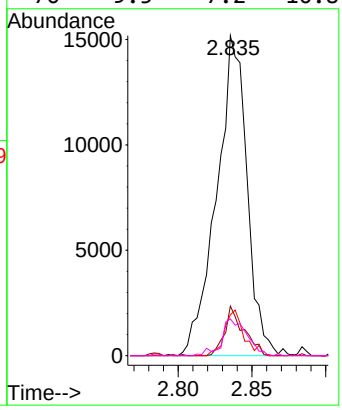




#25
Ethyl Acetate
Concen: 1.041 ppbv
RT: 2.835 min Scan# 84
Delta R.T. -0.000 min
Lab File: VL042460.D
Acq: 01 May 2025 10:08

Tgt Ion: 43 Resp: 2176

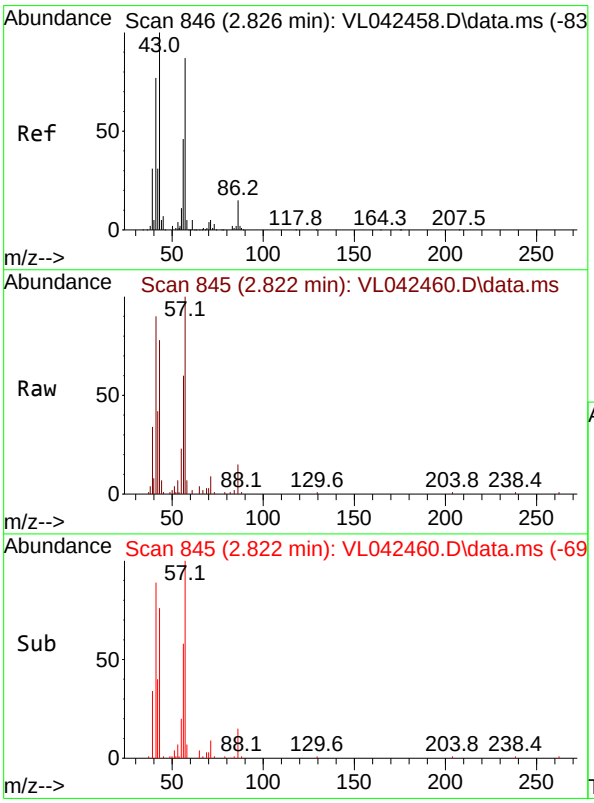
Ion	Ratio	Lower	Upper
43	100		
45	9.9	7.8	11.6
61	9.1	7.2	10.8
70	9.5	7.2	10.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

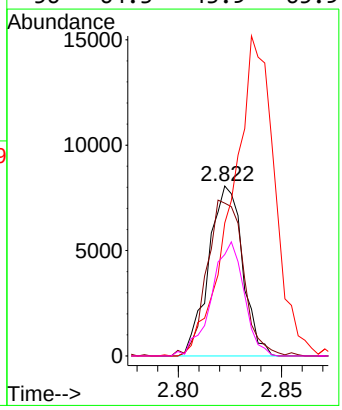
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

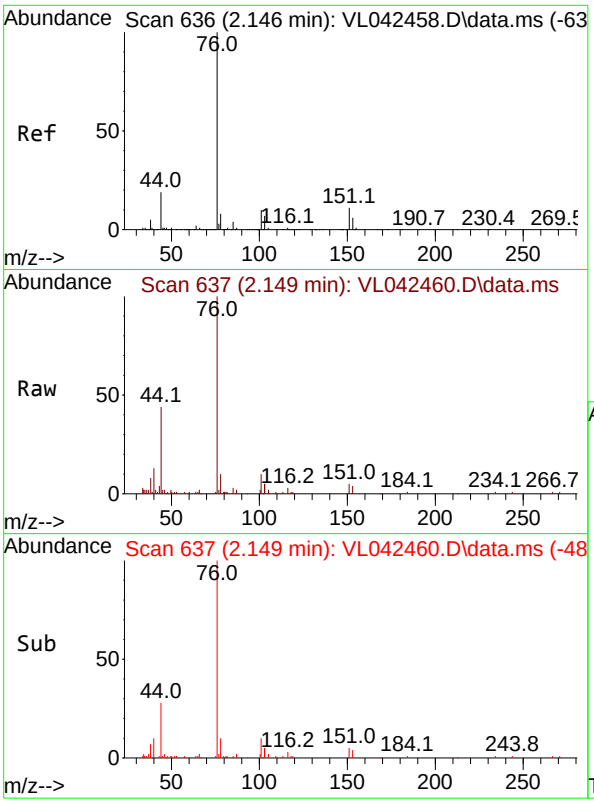


#26
Hexane
Concen: 1.013 ppbv
RT: 2.822 min Scan# 845
Delta R.T. -0.003 min
Lab File: VL042460.D
Acq: 01 May 2025 10:08

Tgt Ion: 57 Resp: 9223

Ion	Ratio	Lower	Upper
57	100		
41	98.1	77.8	116.8
43	237.0	187.0	280.6
56	64.3	43.9	65.9

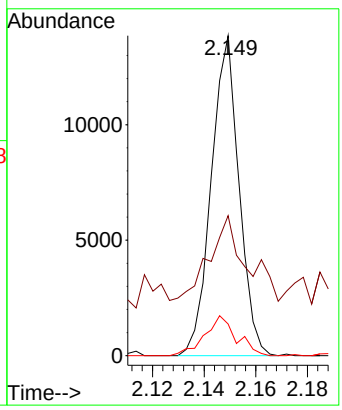




#27
Carbon Disulfide
Concen: 0.973 ppbv
RT: 2.149 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL042460.D
Acq: 01 May 2025 10:08

Tgt Ion: 76 Resp: 1034

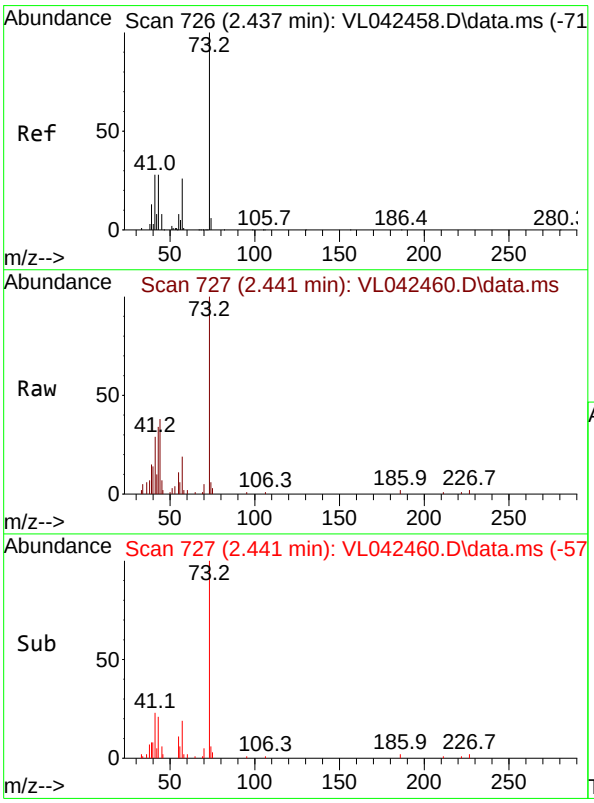
Ion	Ratio	Lower	Upper
76	100		
44	81.2	21.0	31.6#
78	14.3	8.6	13.0#



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

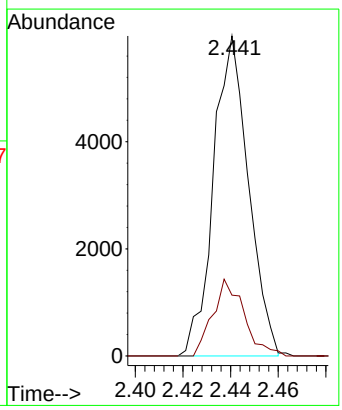
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

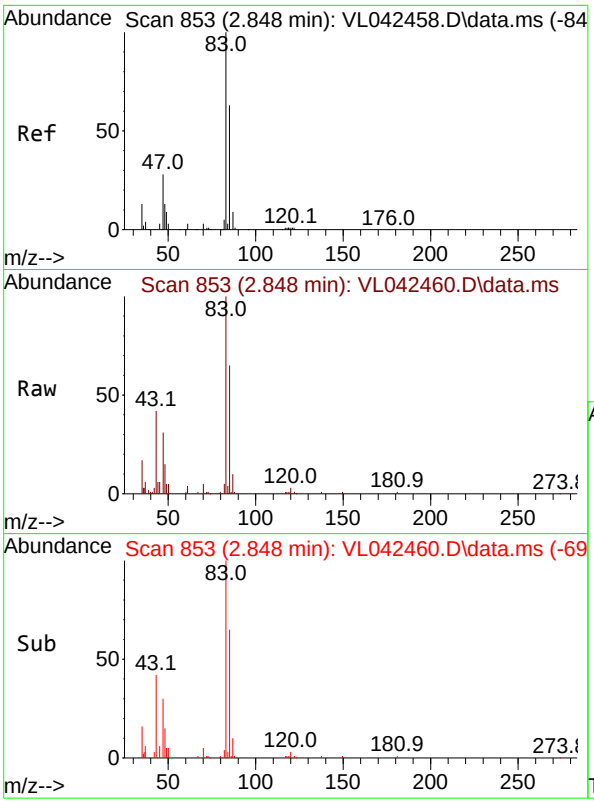


#28
Methyl tert-Butyl Ether
Concen: 1.115 ppbv
RT: 2.441 min Scan# 727
Delta R.T. 0.003 min
Lab File: VL042460.D
Acq: 01 May 2025 10:08

Tgt Ion: 73 Resp: 6101

Ion	Ratio	Lower	Upper
73	100		
57	21.5	19.9	29.9

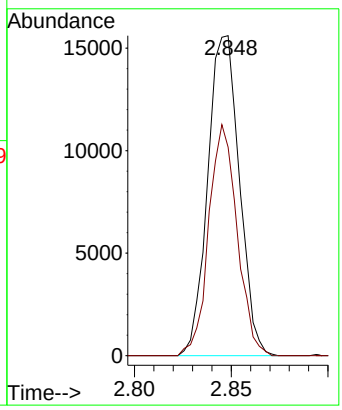




#29
Chloroform
Concen: 1.040 ppbv
RT: 2.848 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL042460.D
Acq: 01 May 2025 10:08

Tgt Ion: 83 Resp: 1774

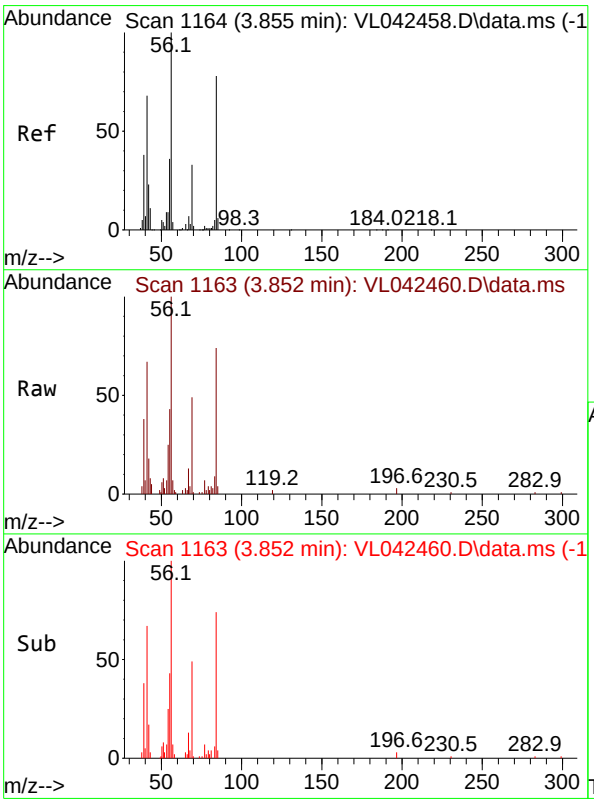
Ion	Ratio	Lower	Upper
83	100		
85	65.2	50.4	75.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

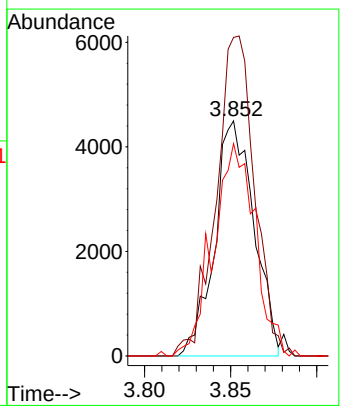
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

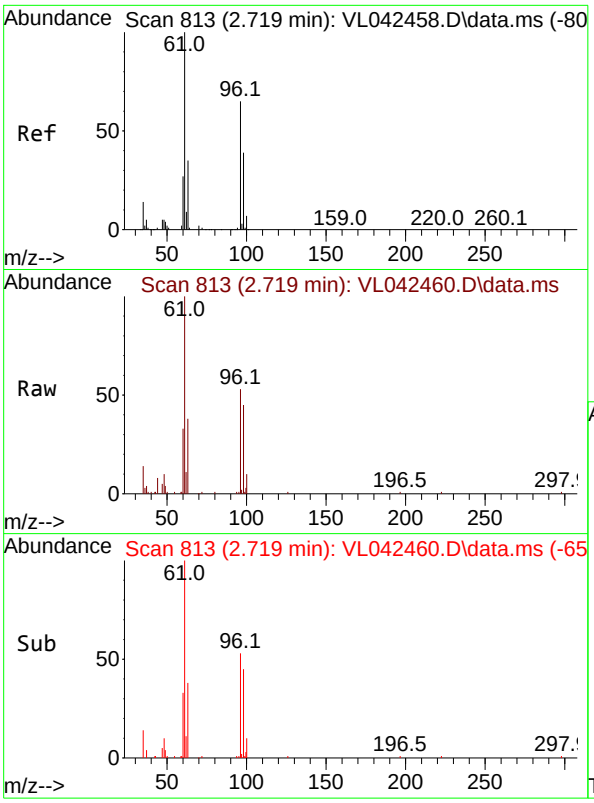


#30
Cyclohexane
Concen: 0.938 ppbv
RT: 3.852 min Scan# 1163
Delta R.T. -0.003 min
Lab File: VL042460.D
Acq: 01 May 2025 10:08

Tgt Ion: 84 Resp: 7139

Ion	Ratio	Lower	Upper
84	100		
56	133.7	98.1	147.1
41	95.9	65.8	98.8

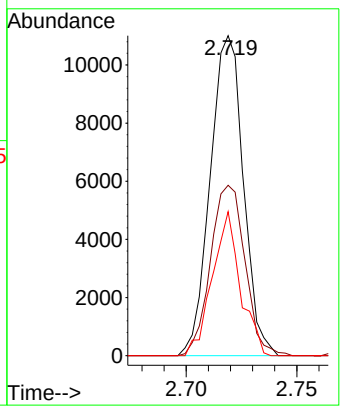




#31
cis-1,2-Dichloroethene
Concen: 1.080 ppbv
RT: 2.719 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL042460.D
Acq: 01 May 2025 10:08

Tgt Ion: 61 Resp: 1147

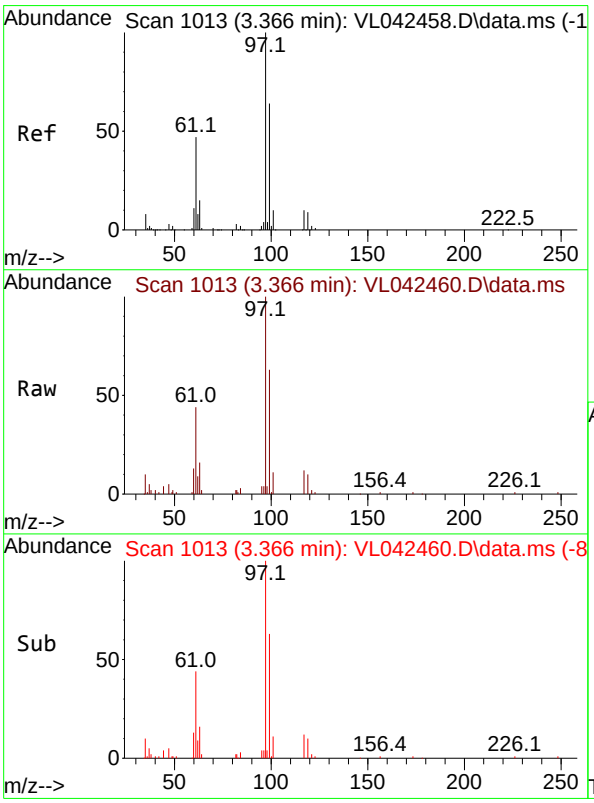
Ion	Ratio	Lower	Upper
61	100		
96	53.3	52.0	78.0
98	45.0	31.0	46.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

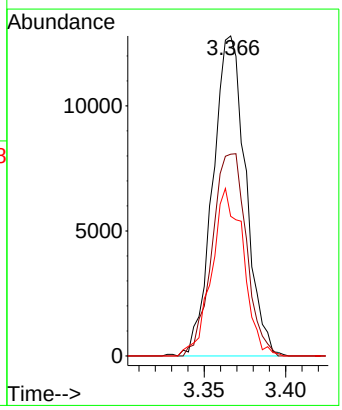
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

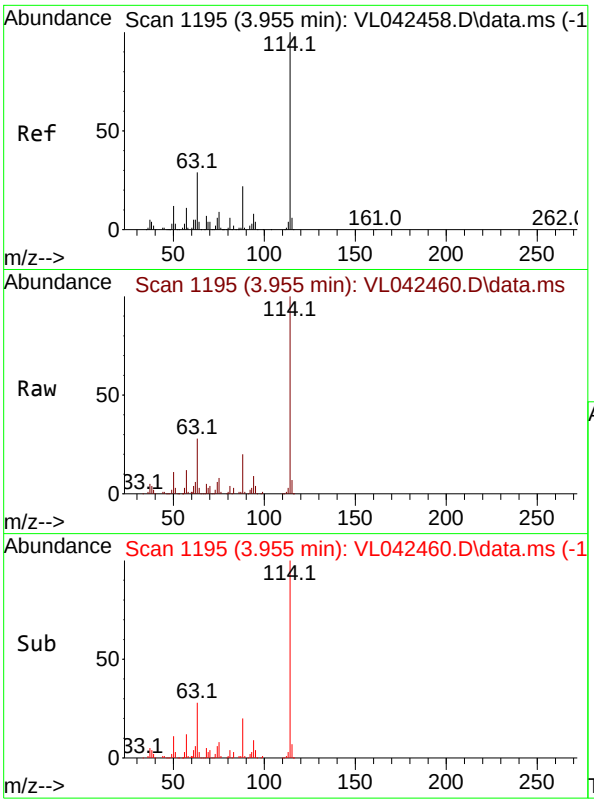


#32
1,1,1-Trichloroethane
Concen: 0.966 ppbv
RT: 3.366 min Scan# 1013
Delta R.T. -0.000 min
Lab File: VL042460.D
Acq: 01 May 2025 10:08

Tgt Ion: 97 Resp: 17881

Ion	Ratio	Lower	Upper
97	100		
99	65.8	50.7	76.1
61	50.6	40.9	61.3

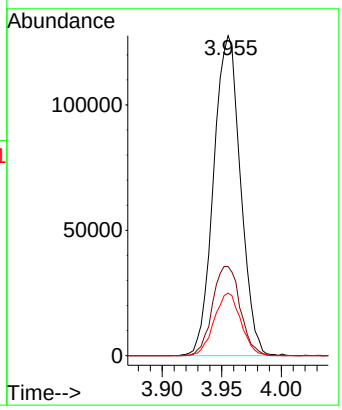




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.955 min Scan# 1
Delta R.T. -0.000 min
Lab File: VL042460.D
Acq: 01 May 2025 10:08

Tgt Ion:114 Resp: 20011

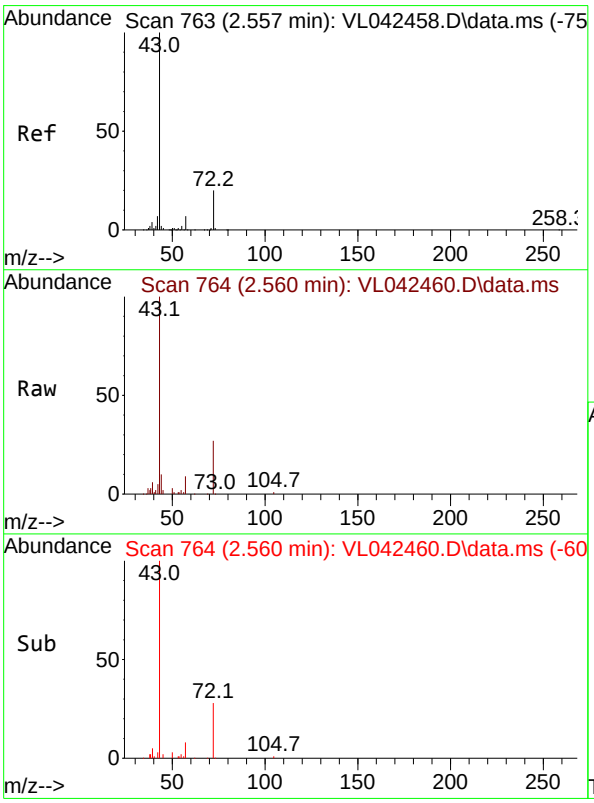
Ion	Ratio	Lower	Upper
114	100		
63	28.8	23.1	34.7
88	19.4	16.1	24.1



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

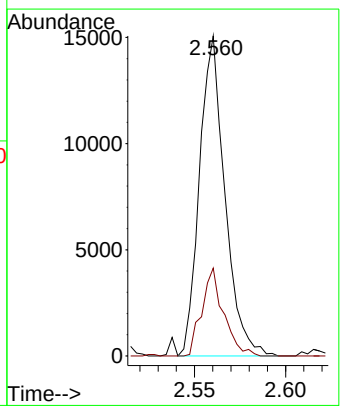
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

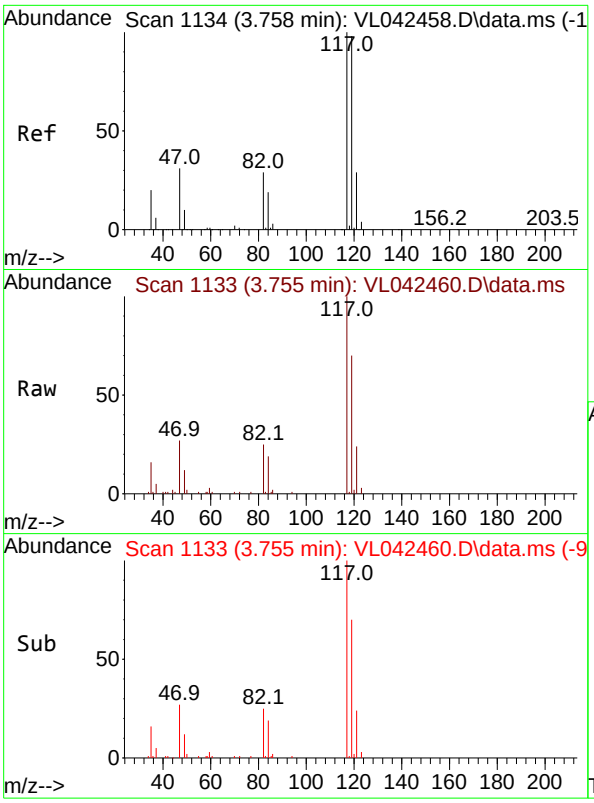


#34
2-Butanone
Concen: 1.012 ppbv
RT: 2.560 min Scan# 764
Delta R.T. 0.003 min
Lab File: VL042460.D
Acq: 01 May 2025 10:08

Tgt Ion: 43 Resp: 14641

Ion	Ratio	Lower	Upper
43	100		
72	23.5	16.7	25.1

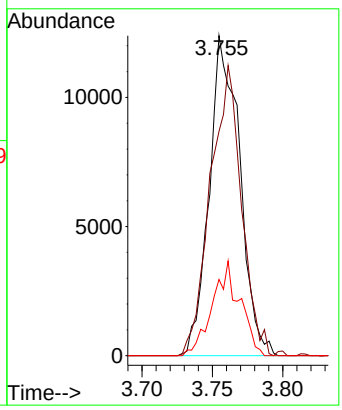




#35
Carbon Tetrachloride
Concen: 1.075 ppbv
RT: 3.755 min Scan# 1
Delta R.T. -0.003 min
Lab File: VL042460.D
Acq: 01 May 2025 10:08

Tgt Ion:117 Resp: 1870

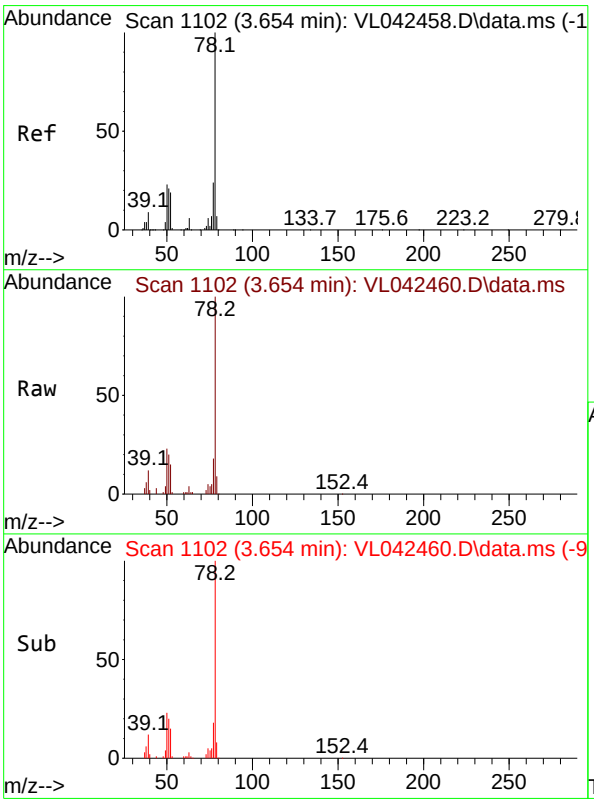
Ion	Ratio	Lower	Upper
117	100		
119	70.1	78.1	117.1#
121	23.8	23.0	34.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

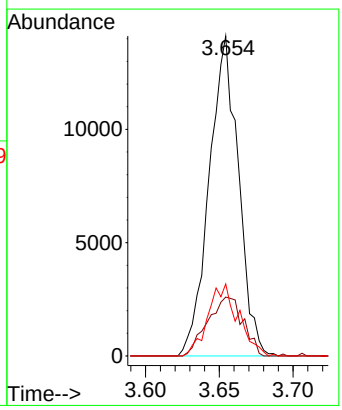
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

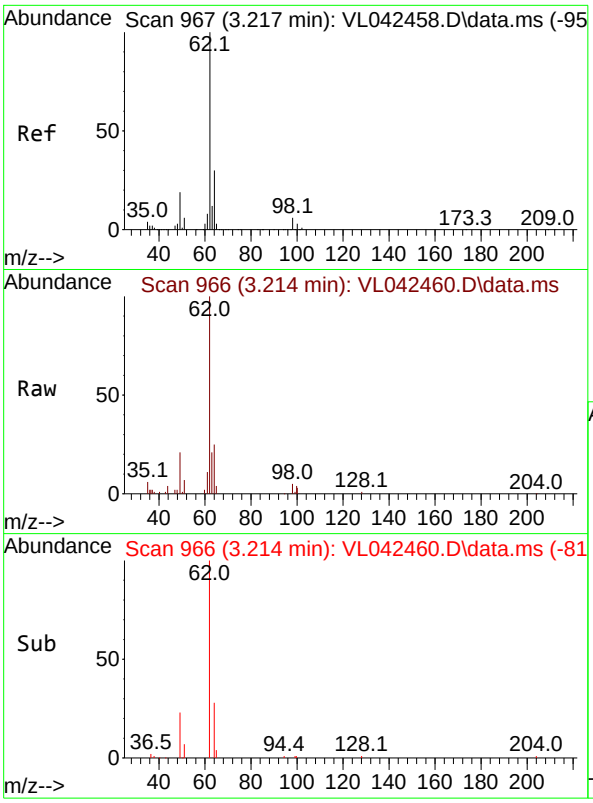


#36
Benzene
Concen: 1.032 ppbv
RT: 3.654 min Scan# 1102
Delta R.T. -0.000 min
Lab File: VL042460.D
Acq: 01 May 2025 10:08

Tgt Ion: 78 Resp: 19493

Ion	Ratio	Lower	Upper
78	100		
77	18.4	18.9	28.3#
50	22.5	18.4	27.6

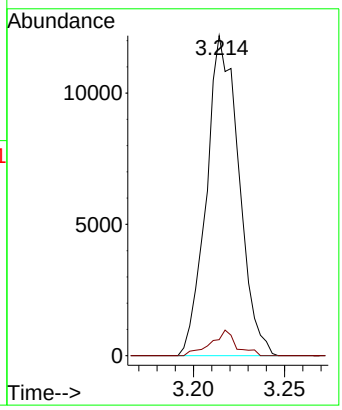




#37
1,2-Dichloroethane
Concen: 1.039 ppbv
RT: 3.214 min Scan# 9
Delta R.T. -0.003 min
Lab File: VL042460.D
Acq: 01 May 2025 10:08

Tgt Ion: 62 Resp: 1511

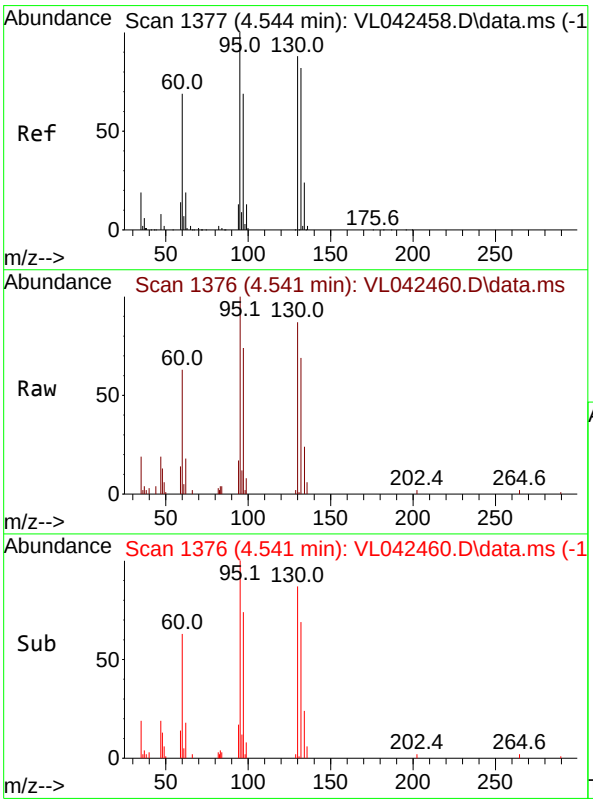
Ion	Ratio	Lower	Upper
62	100		
98	6.2	4.3	6.5



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

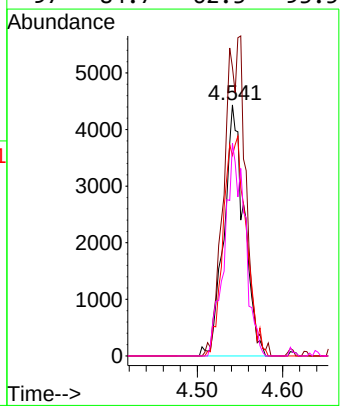
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

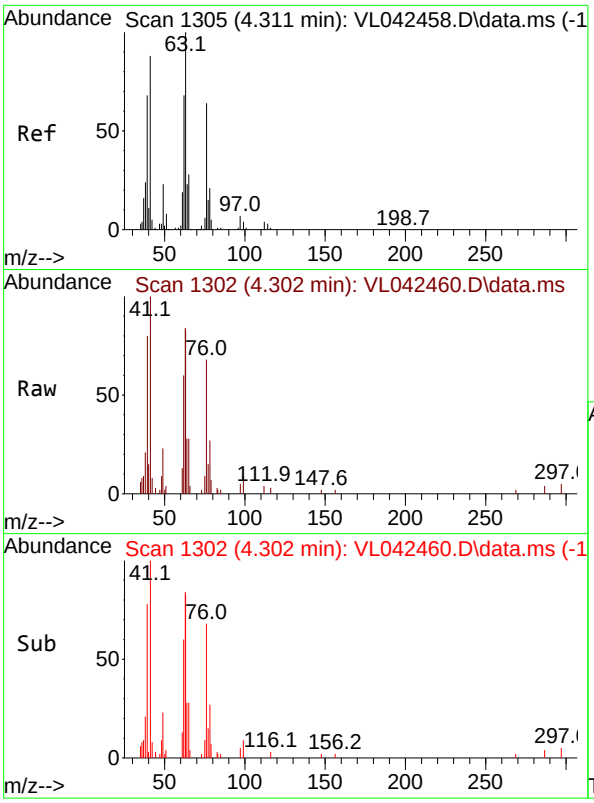


#38
Trichloroethene
Concen: 1.011 ppbv m
RT: 4.541 min Scan# 1376
Delta R.T. -0.003 min
Lab File: VL042460.D
Acq: 01 May 2025 10:08

Tgt Ion:130 Resp: 7278

Ion	Ratio	Lower	Upper
130	100		
95	115.0	91.0	136.4
132	79.9	74.2	111.4
97	84.7	62.3	93.5

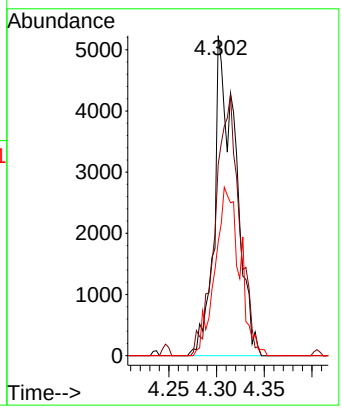




#39
1,2-Dichloropropane
Concen: 1.145 ppbv m
RT: 4.302 min Scan# 1
Delta R.T. -0.010 min
Lab File: VL042460.D
Acq: 01 May 2025 10:08

Tgt Ion: 63 Resp: 810

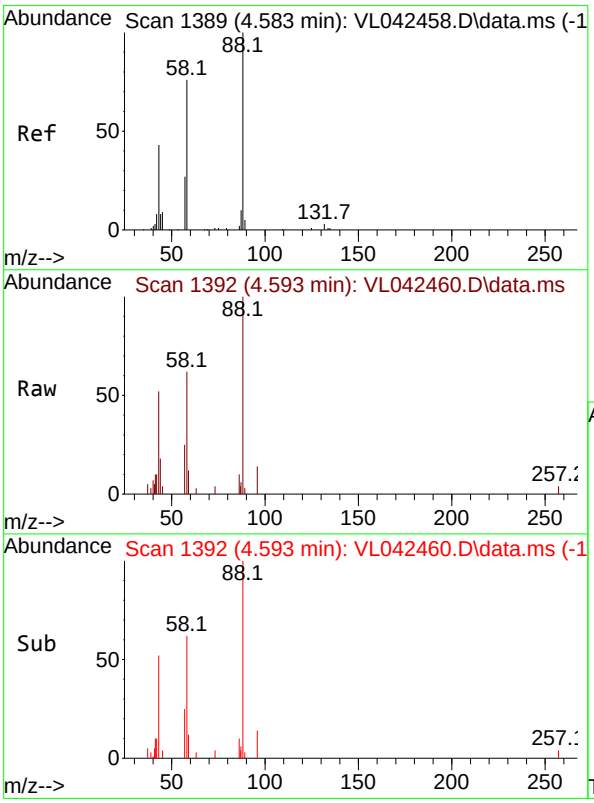
Ion	Ratio	Lower	Upper
63	100		
41	119.1	69.8	104.6#
62	70.9	54.3	81.5



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

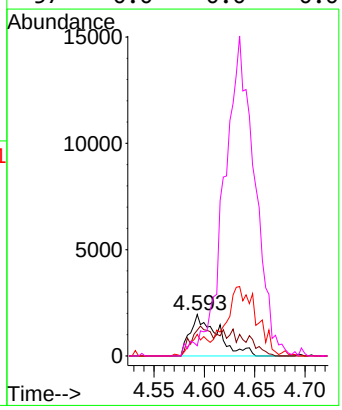
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

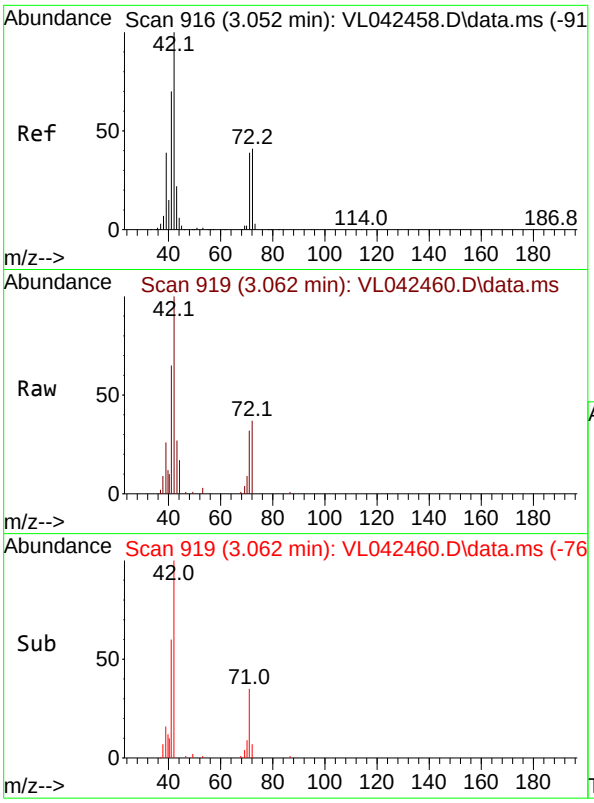


#40
1,4-Dioxane
Concen: 1.126 ppbv m
RT: 4.593 min Scan# 1392
Delta R.T. 0.010 min
Lab File: VL042460.D
Acq: 01 May 2025 10:08

Tgt Ion: 88 Resp: 3703

Ion	Ratio	Lower	Upper
88	100		
58	0.0	0.0	0.0
43	0.0	0.0	0.0
57	0.0	0.0	0.0

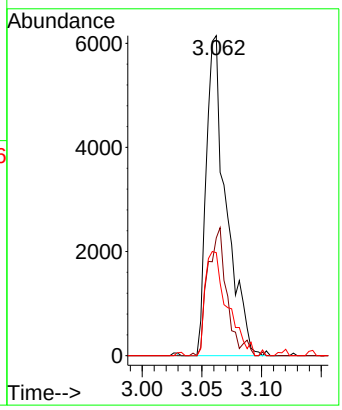




#41
Tetrahydrofuran
Concen: 1.033 ppbv m
RT: 3.062 min Scan# 9
Delta R.T. 0.010 min
Lab File: VL042460.D
Acq: 01 May 2025 10:08

Tgt Ion: 42 Resp: 709

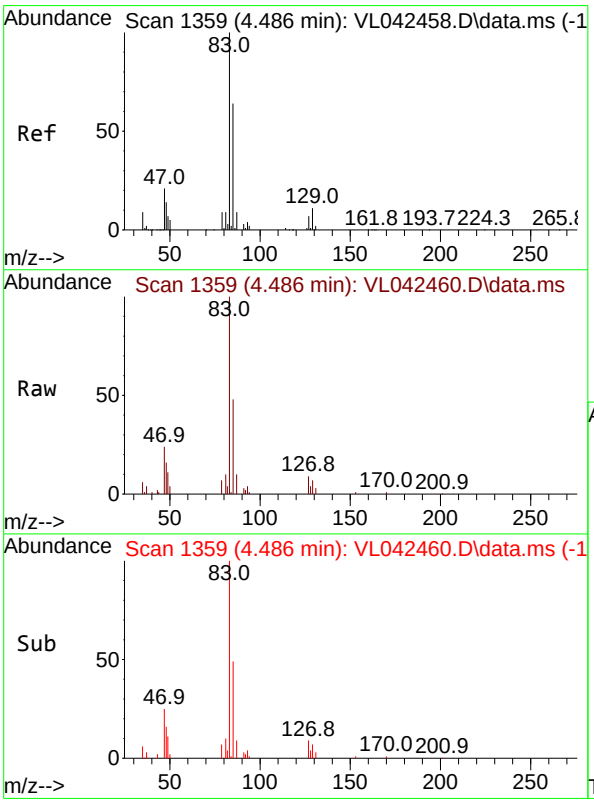
Ion	Ratio	Lower	Upper
42	100		
72	38.8	33.5	50.3
71	36.9	32.6	49.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

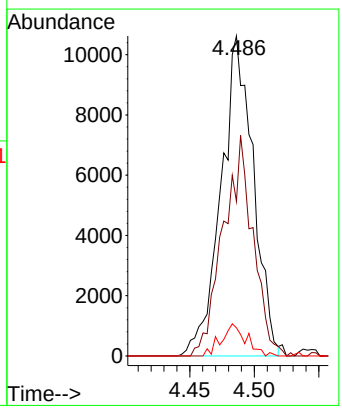
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

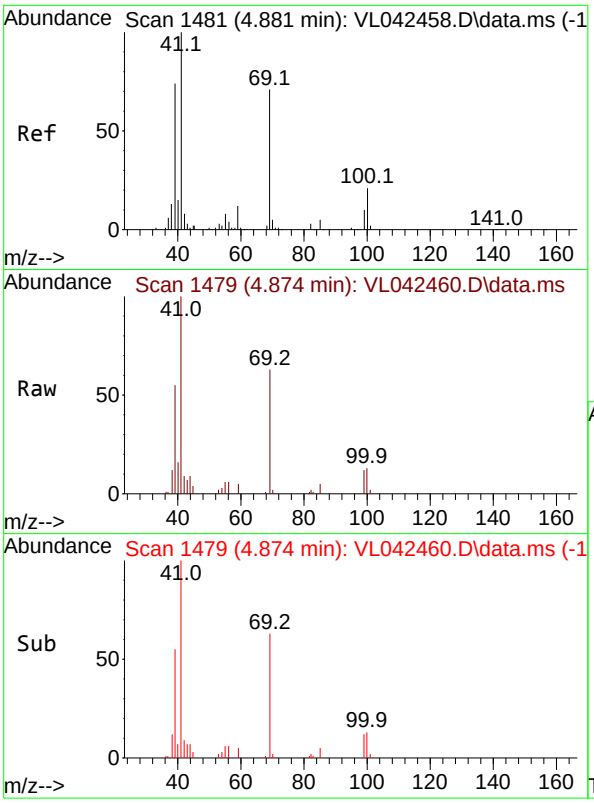


#42
Bromodichloromethane
Concen: 1.036 ppbv
RT: 4.486 min Scan# 1359
Delta R.T. -0.000 min
Lab File: VL042460.D
Acq: 01 May 2025 10:08

Tgt Ion: 83 Resp: 18427

Ion	Ratio	Lower	Upper
83	100		
85	48.3	51.5	77.3#
127	8.8	5.4	8.2#

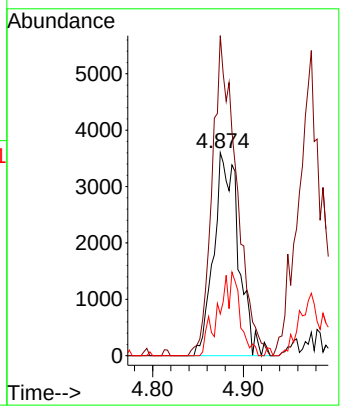




#43
Methyl Methacrylate
Concen: 0.971 ppbv m
RT: 4.874 min Scan# 14
Delta R.T. -0.006 min
Lab File: VL042460.D
Acq: 01 May 2025 10:08

Tgt Ion: 69 Resp: 682

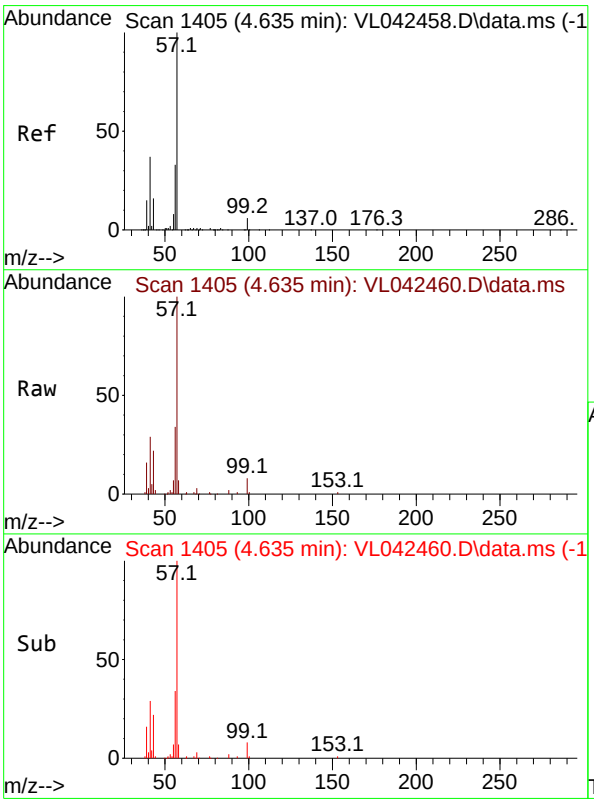
Ion	Ratio	Lower	Upper
69	100		
41	154.2	120.8	181.2
100	0.0	26.7	40.1



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

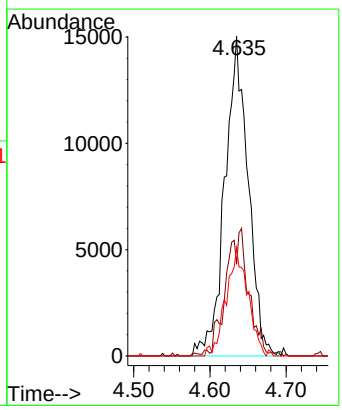
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

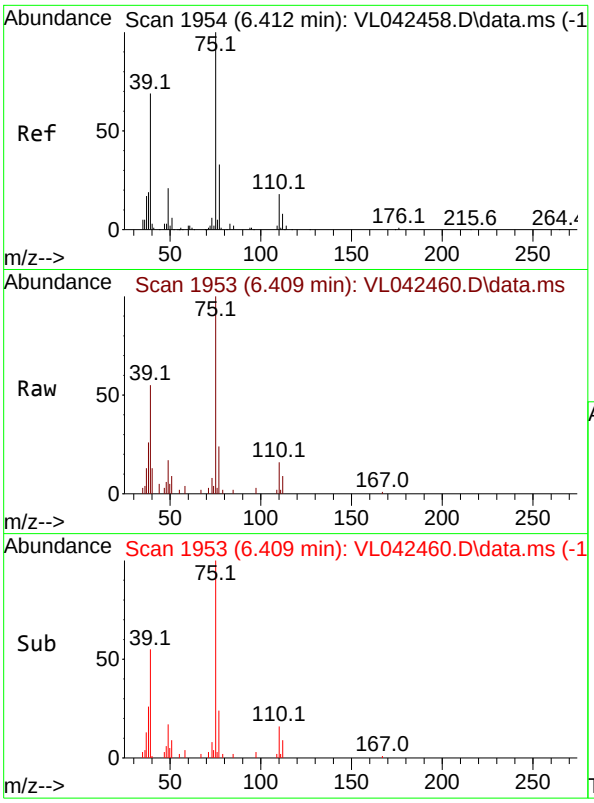


#44
2,2,4-Trimethylpentane
Concen: 1.043 ppbv m
RT: 4.635 min Scan# 1405
Delta R.T. -0.000 min
Lab File: VL042460.D
Acq: 01 May 2025 10:08

Tgt Ion: 57 Resp: 31820

Ion	Ratio	Lower	Upper
57	100		
41	40.0	30.6	45.8
56	31.9	25.0	37.6

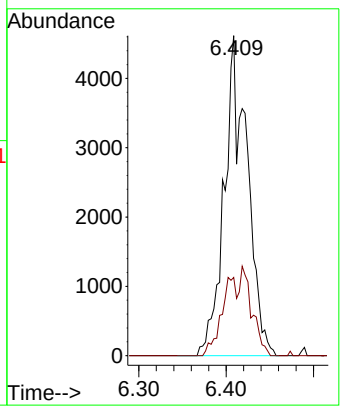




#45
t-1,3-Dichloropropene
Concen: 0.914 ppbv m
RT: 6.409 min Scan# 1
Delta R.T. -0.003 min
Lab File: VL042460.D
Acq: 01 May 2025 10:08

Tgt Ion: 75 Resp: 846

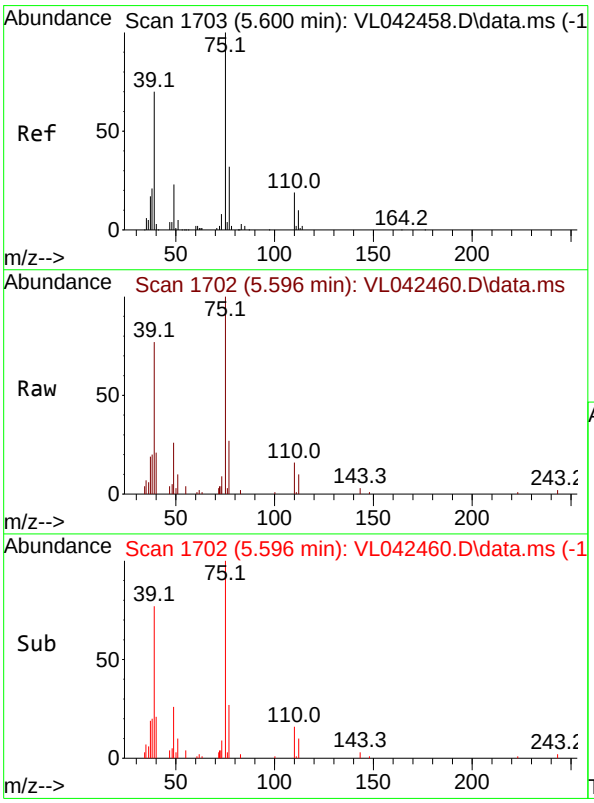
Ion	Ratio	Lower	Upper
75	100		
77	24.5	26.3	39.5#



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

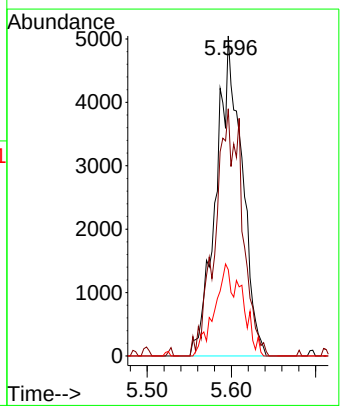
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

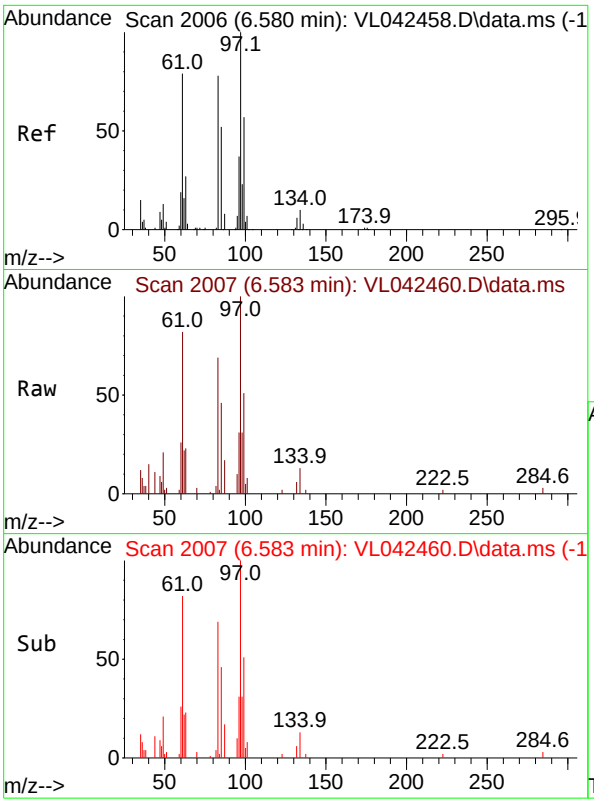


#46
cis-1,3-Dichloropropene
Concen: 0.981 ppbv m
RT: 5.596 min Scan# 1702
Delta R.T. -0.003 min
Lab File: VL042460.D
Acq: 01 May 2025 10:08

Tgt Ion: 75 Resp: 10781

Ion	Ratio	Lower	Upper
75	100		
39	77.3	55.7	83.5
77	27.0	25.8	38.8

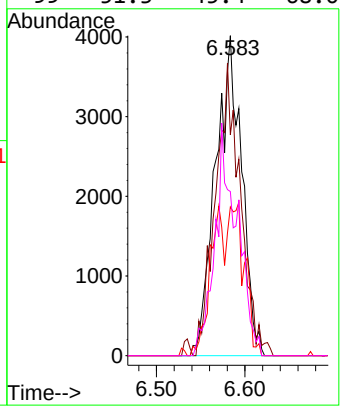




#47
1,1,2-Trichloroethane
Concen: 1.055 ppbv m
RT: 6.583 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042460.D
Acq: 01 May 2025 10:08

Tgt Ion: 97 Resp: 818

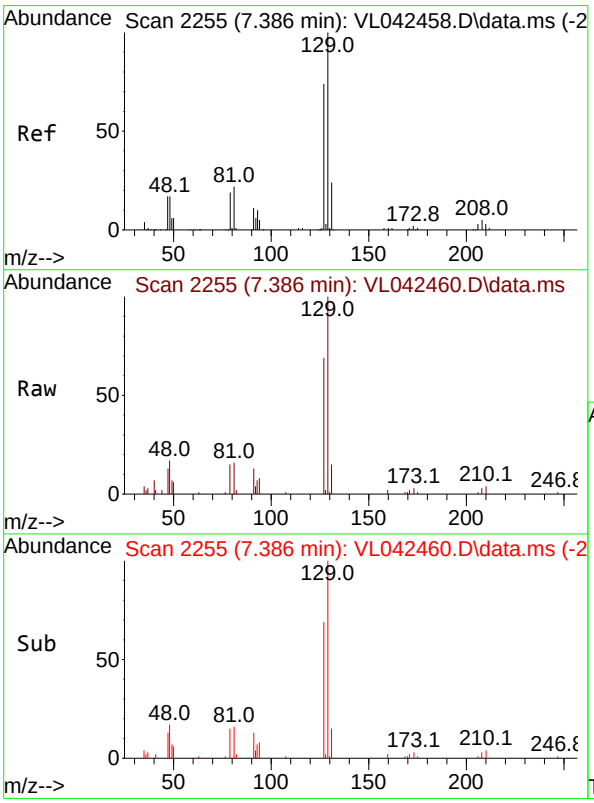
Ion	Ratio	Lower	Upper
97	100		
83	69.0	62.2	93.2
85	46.5	41.5	62.3
99	51.3	45.4	68.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

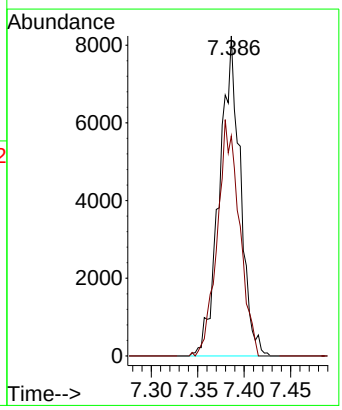
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

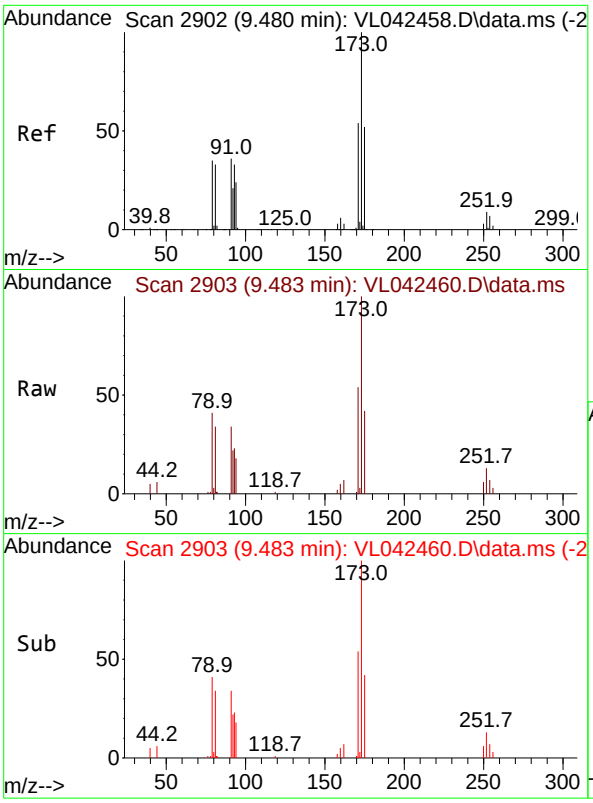


#48
Dibromochloromethane
Concen: 0.982 ppbv m
RT: 7.386 min Scan# 2255
Delta R.T. -0.000 min
Lab File: VL042460.D
Acq: 01 May 2025 10:08

Tgt Ion:129 Resp: 12859

Ion	Ratio	Lower	Upper
129	100		
127	78.1	39.5	118.5

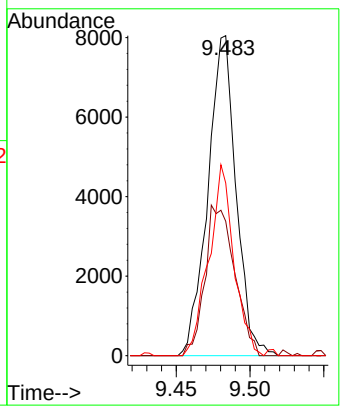




#49
Bromoform
Concen: 0.976 ppbv
RT: 9.483 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042460.D
Acq: 01 May 2025 10:08

Tgt Ion:173 Resp: 1070

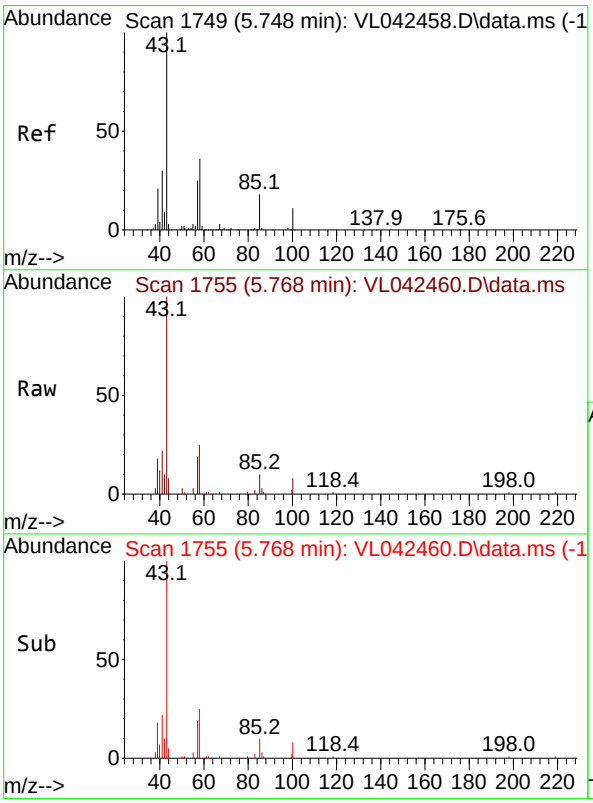
Ion	Ratio	Lower	Upper
173	100		
175	49.4	38.9	58.3
171	53.5	40.6	60.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

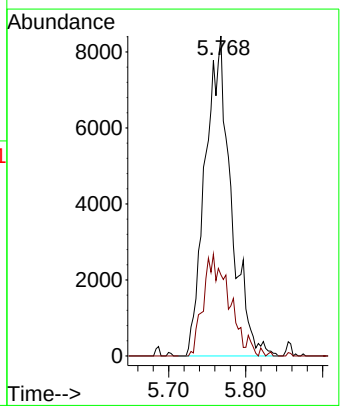
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

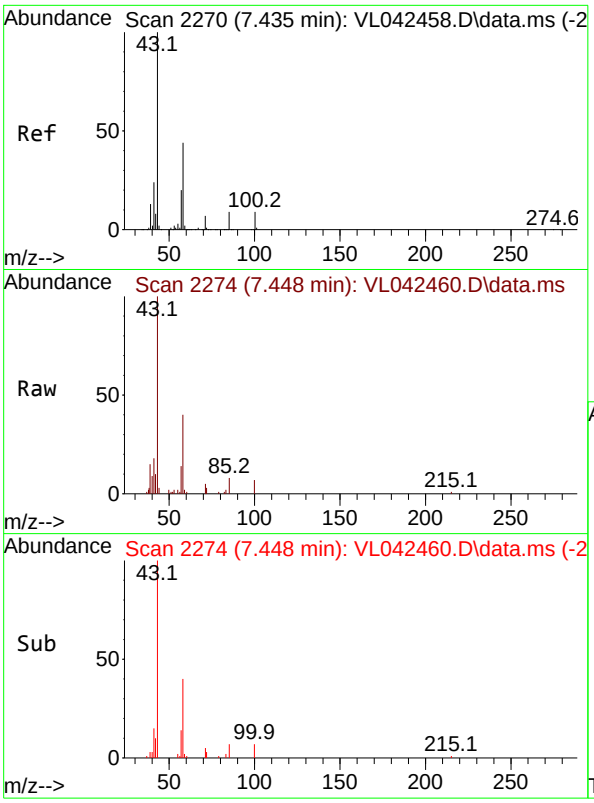


#50
4-Methyl-2-Pentanone
Concen: 1.072 ppbv m
RT: 5.768 min Scan# 1755
Delta R.T. 0.019 min
Lab File: VL042460.D
Acq: 01 May 2025 10:08

Tgt Ion: 43 Resp: 19618

Ion	Ratio	Lower	Upper
43	100		
58	32.5	29.5	44.3

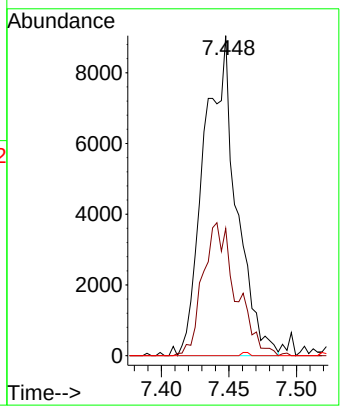




#51
2-Hexanone
Concen: 1.030 ppbv m
RT: 7.448 min Scan# 2
Delta R.T. 0.013 min
Lab File: VL042460.D
Acq: 01 May 2025 10:08

Tgt Ion: 43 Resp: 1509

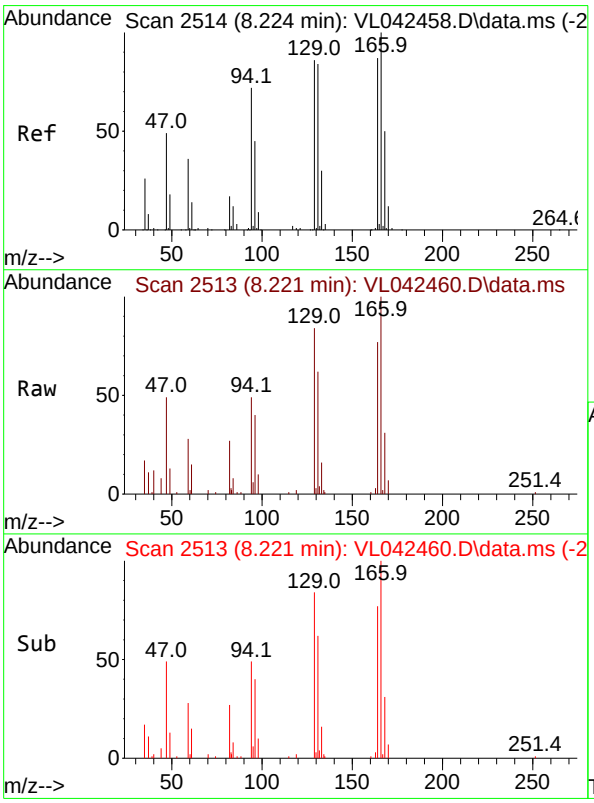
Ion	Ratio	Lower	Upper
43	100		
58	0.0	37.2	55.8#
98	0.2	0.4	0.6#



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

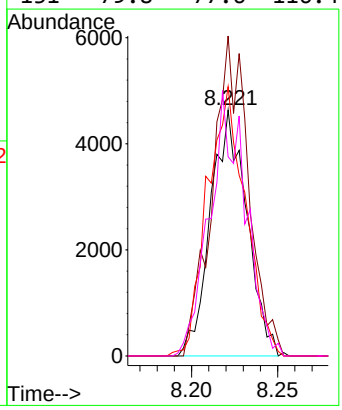
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

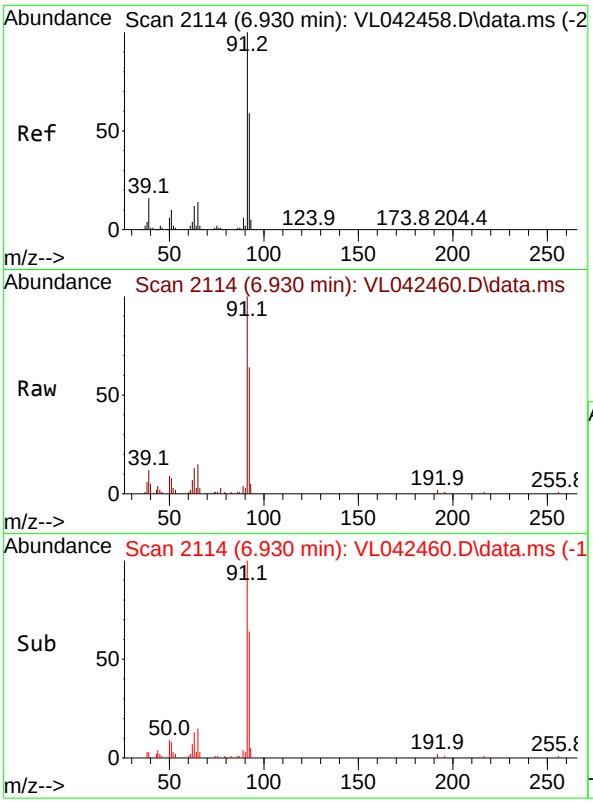


#52
Tetrachloroethene
Concen: 0.943 ppbv
RT: 8.221 min Scan# 2513
Delta R.T. -0.003 min
Lab File: VL042460.D
Acq: 01 May 2025 10:08

Tgt Ion:164 Resp: 6780

Ion	Ratio	Lower	Upper
164	100		
166	130.2	91.6	137.4
129	107.6	79.0	118.4
131	79.8	77.6	116.4

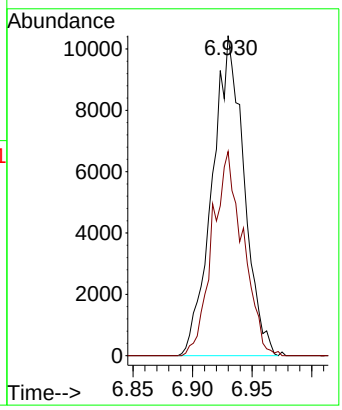




#53
Toluene
Concen: 0.970 ppbv
RT: 6.930 min Scan# 21
Delta R.T. -0.000 min
Lab File: VL042460.D
Acq: 01 May 2025 10:08

Tgt Ion: 91 Resp: 1939

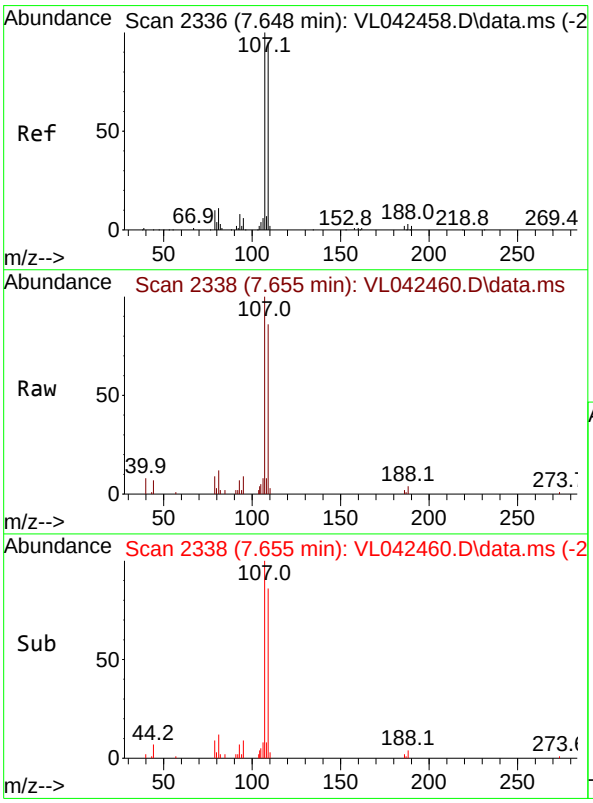
Ion	Ratio	Lower	Upper
91	100		
92	61.9	47.9	71.9



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

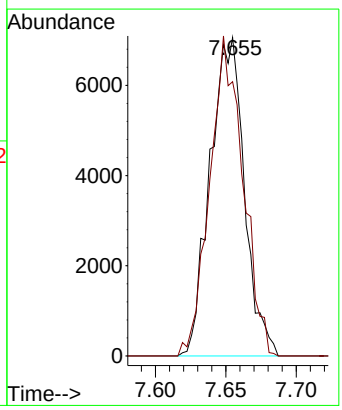
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

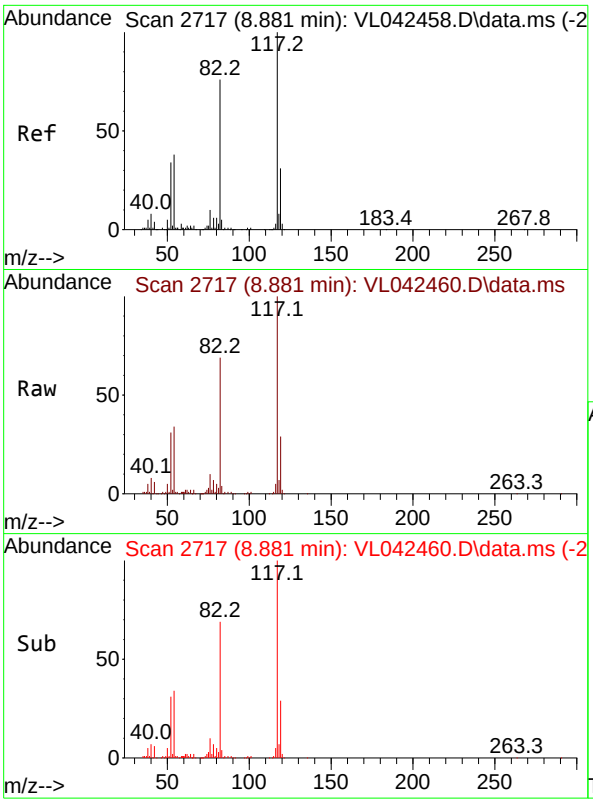


#54
1,2-Dibromoethane
Concen: 1.005 ppbv
RT: 7.655 min Scan# 2338
Delta R.T. 0.006 min
Lab File: VL042460.D
Acq: 01 May 2025 10:08

Tgt Ion:107 Resp: 11980

Ion	Ratio	Lower	Upper
107	100		
109	86.2	76.0	114.0

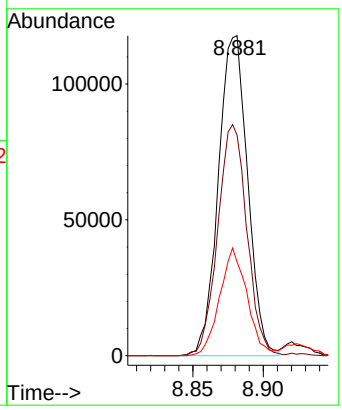




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.881 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL042460.D
Acq: 01 May 2025 10:08

Tgt Ion:117 Resp: 17087

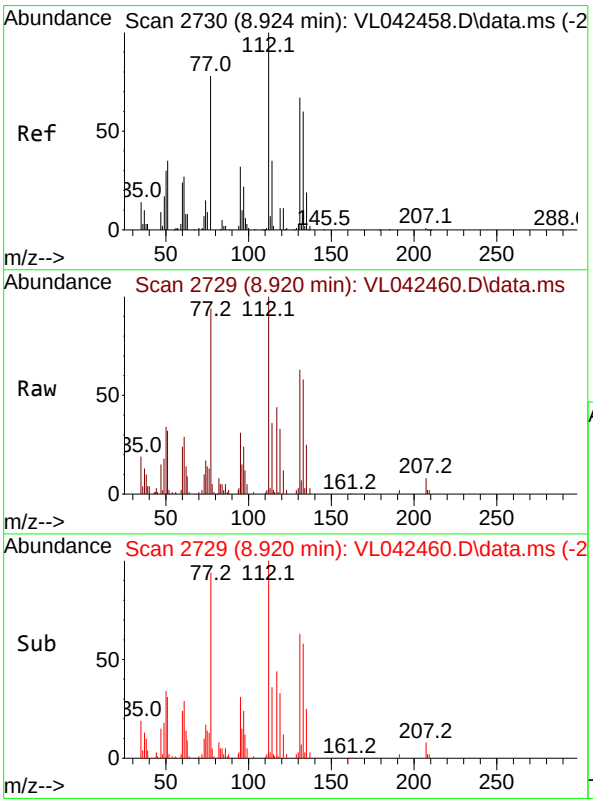
Ion	Ratio	Lower	Upper
117	100		
82	72.3	63.5	95.3
119	31.4	25.8	38.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

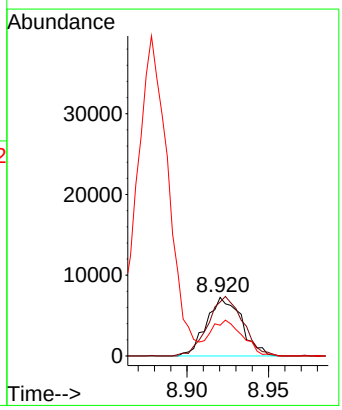
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

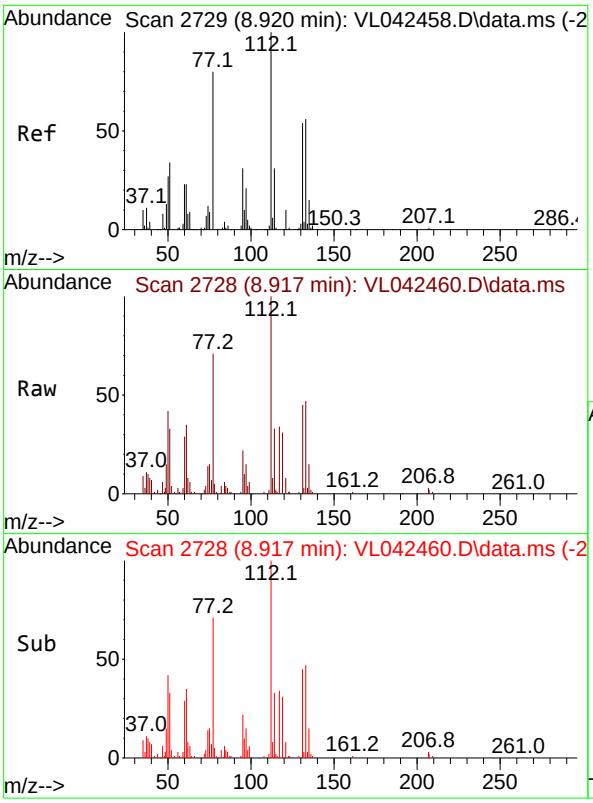


#56
1,1,1,2-Tetrachloroethane
Concen: 1.071 ppbv
RT: 8.920 min Scan# 2729
Delta R.T. -0.003 min
Lab File: VL042460.D
Acq: 01 May 2025 10:08

Tgt Ion:131 Resp: 10811

Ion	Ratio	Lower	Upper
131	100		
133	100.8	76.0	114.0
119	53.6	46.1	69.1





#57
Chlorobenzene
Concen: 1.055 ppbv
RT: 8.917 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL042460.D
Acq: 01 May 2025 10:08

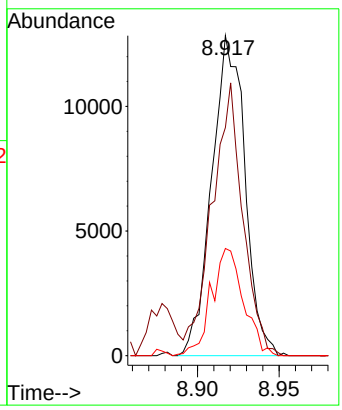
Tgt Ion:112 Resp: 1811

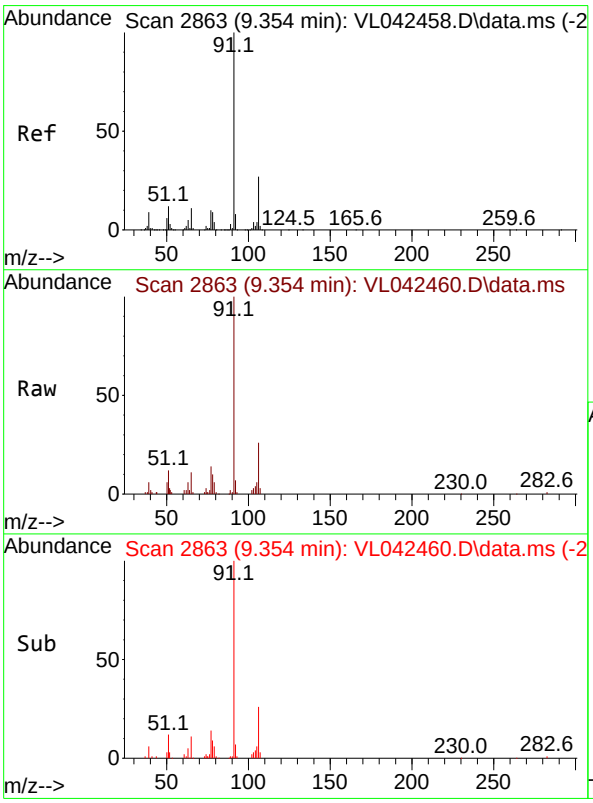
Ion	Ratio	Lower	Upper
112	100		
77	70.3	65.0	97.4
114	33.5	27.5	33.7

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

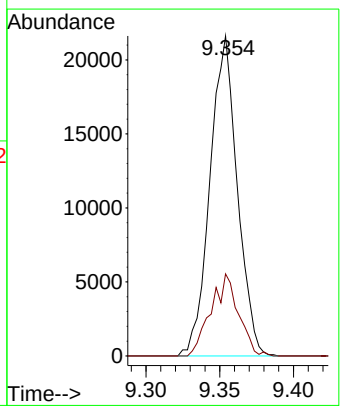


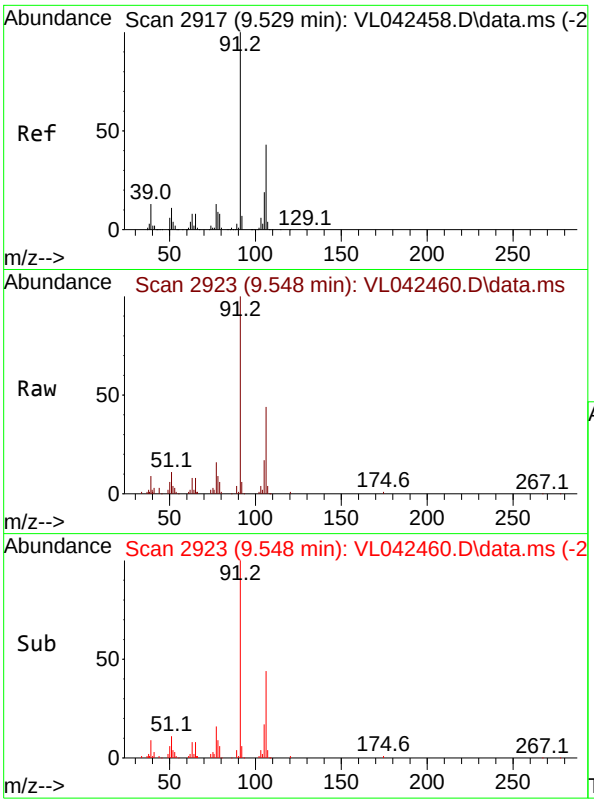


#58
Ethyl Benzene
Concen: 0.978 ppbv
RT: 9.354 min Scan# 2863
Delta R.T. -0.000 min
Lab File: VL042460.D
Acq: 01 May 2025 10:08

Tgt Ion: 91 Resp: 27914

Ion	Ratio	Lower	Upper
91	100		
106	25.6	21.9	32.9

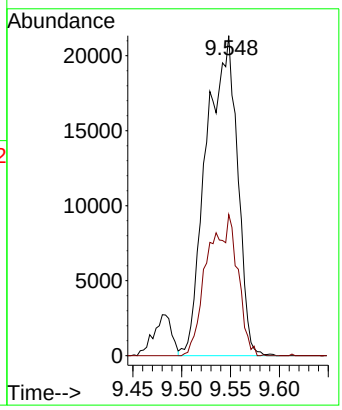




#59
m/p-Xylene
Concen: 1.968 ppbv m
RT: 9.548 min Scan# 2
Delta R.T. 0.019 min
Lab File: VL042460.D
Acq: 01 May 2025 10:08

Tgt Ion: 91 Resp: 4710

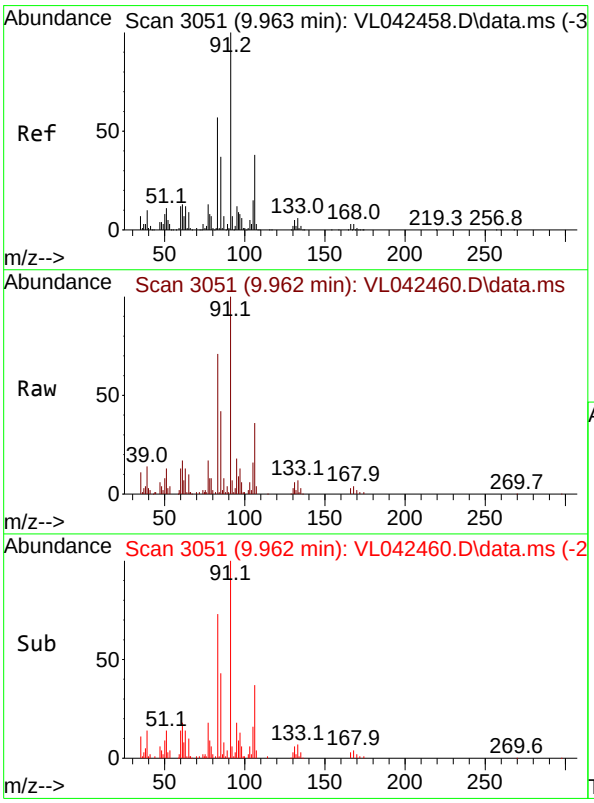
Ion	Ratio	Lower	Upper
91	100		
106	0.0	34.2	51.2



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

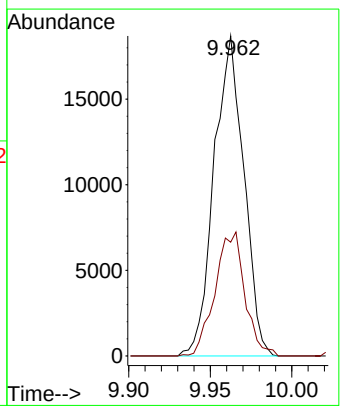
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

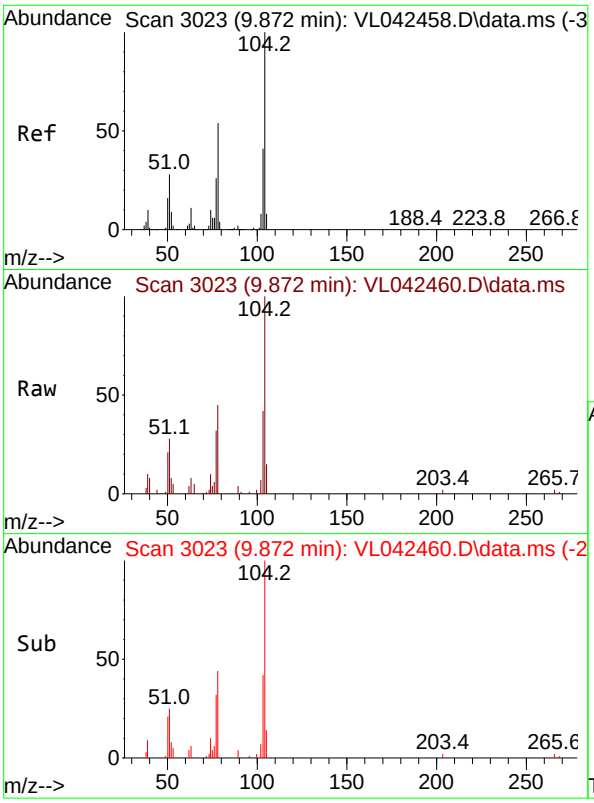


#60
o-Xylene
Concen: 0.995 ppbv
RT: 9.962 min Scan# 3051
Delta R.T. -0.000 min
Lab File: VL042460.D
Acq: 01 May 2025 10:08

Tgt Ion: 91 Resp: 23806

Ion	Ratio	Lower	Upper
91	100		
106	38.7	20.1	60.2

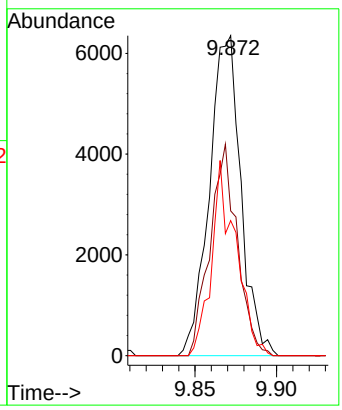




#61
Styrene
Concen: 0.954 ppbv
RT: 9.872 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042460.D
Acq: 01 May 2025 10:08

Tgt Ion:104 Resp: 853

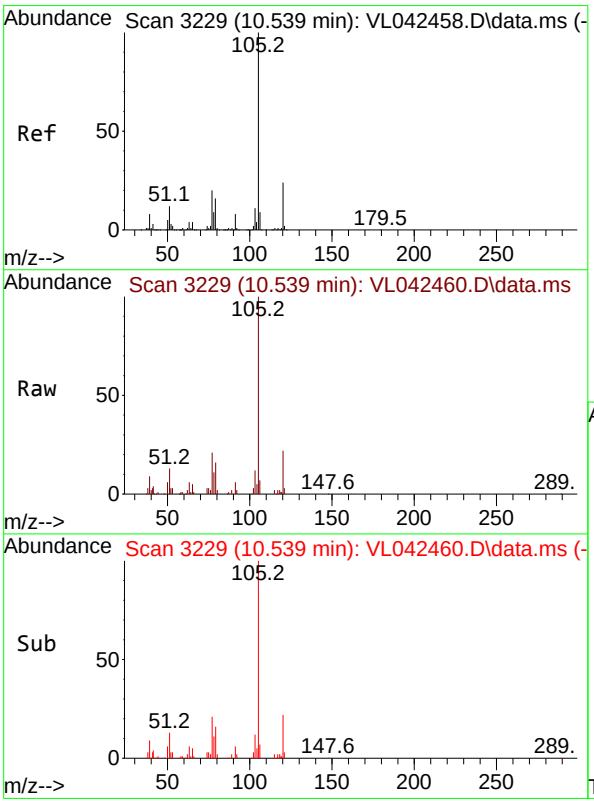
Ion	Ratio	Lower	Upper
104	100		
78	57.2	46.9	70.3
103	47.0	36.6	55.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

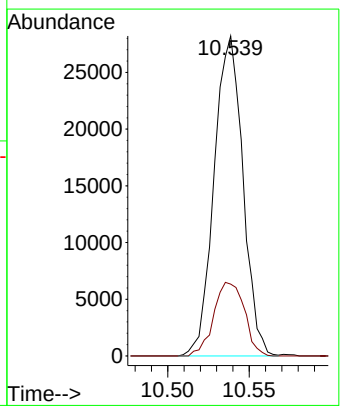
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

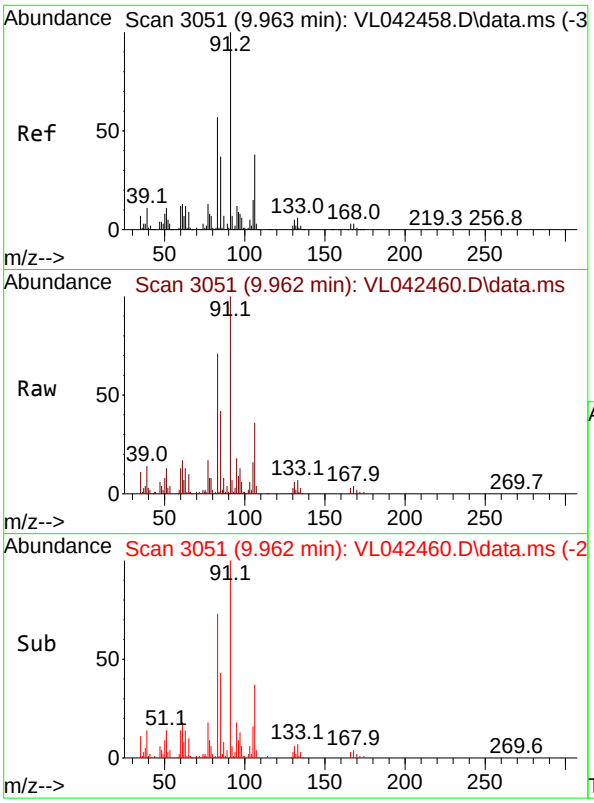


#62
Isopropylbenzene
Concen: 1.003 ppbv
RT: 10.539 min Scan# 3229
Delta R.T. -0.000 min
Lab File: VL042460.D
Acq: 01 May 2025 10:08

Tgt Ion:105 Resp: 34679

Ion	Ratio	Lower	Upper
105	100		
120	24.5	18.8	28.2

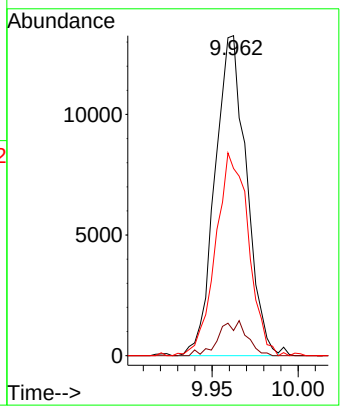




#63
1,1,2,2-Tetrachloroethane
Concen: 1.084 ppbv
RT: 9.962 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042460.D
Acq: 01 May 2025 10:08

Tgt Ion: 83 Resp: 1683

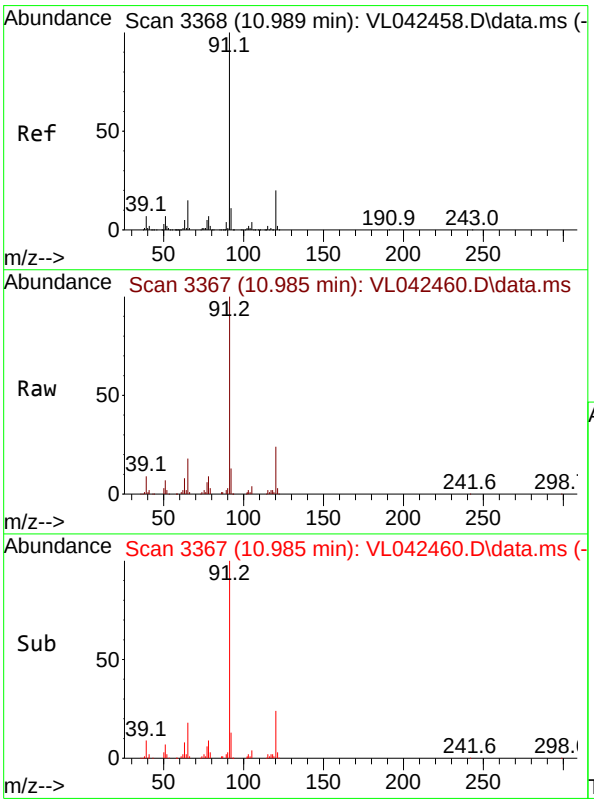
Ion	Ratio	Lower	Upper
83	100		
131	9.8	4.7	14.1
85	66.8	32.5	97.4



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

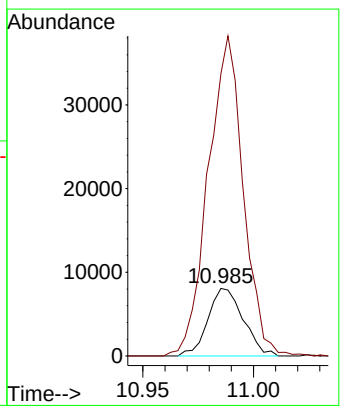
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

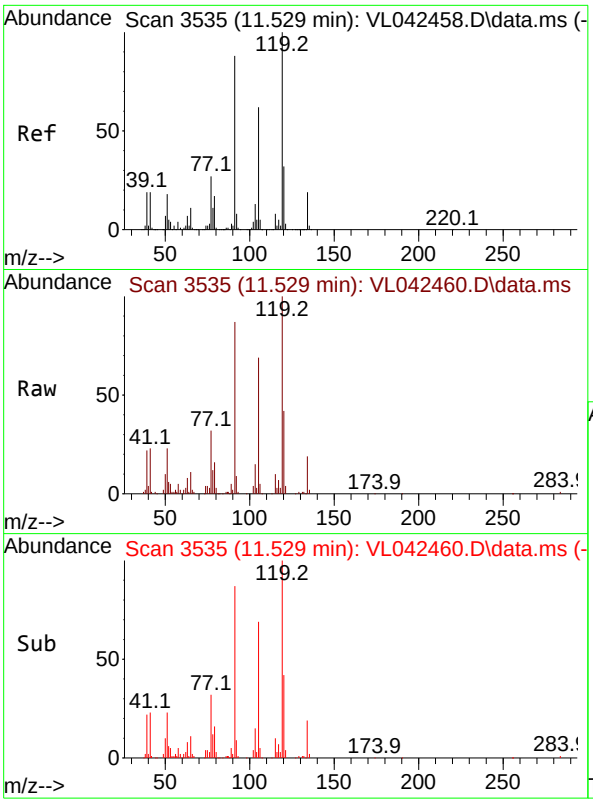


#64
n-propylbenzene
Concen: 1.064 ppbv
RT: 10.985 min Scan# 3367
Delta R.T. -0.003 min
Lab File: VL042460.D
Acq: 01 May 2025 10:08

Tgt Ion:120 Resp: 8958

Ion	Ratio	Lower	Upper
120	100		
91	471.3	408.6	612.8

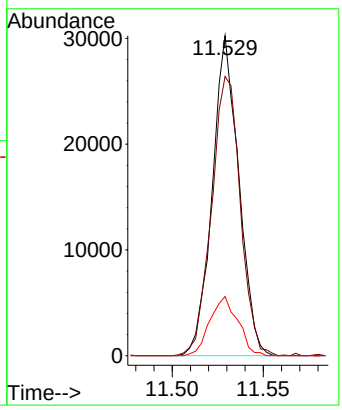




#65
tert-Butylbenzene
Concen: 0.992 ppbv
RT: 11.529 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042460.D
Acq: 01 May 2025 10:08

Tgt Ion:119 Resp: 3060

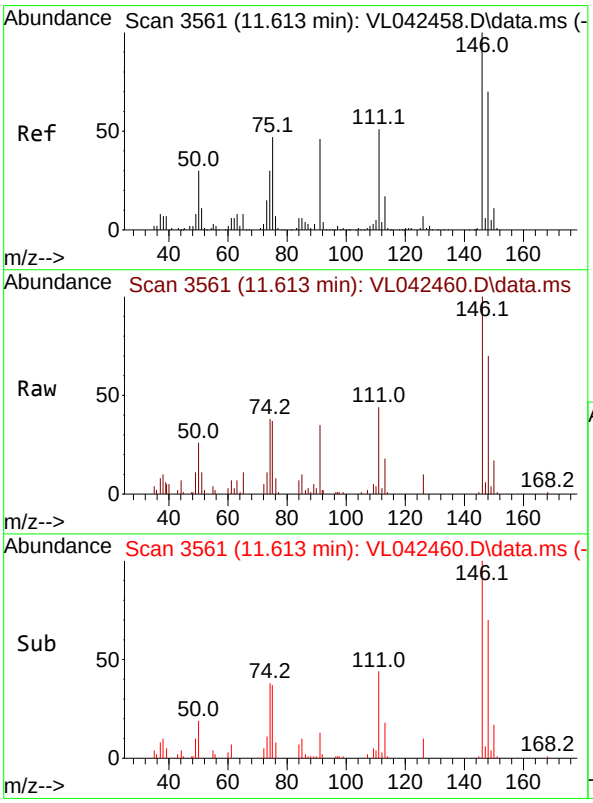
Ion	Ratio	Lower	Upper
119	100		
91	94.7	71.6	107.4
134	19.5	15.0	22.4



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

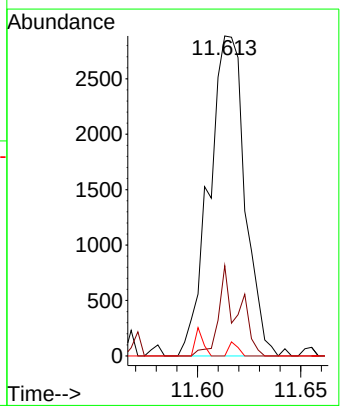
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

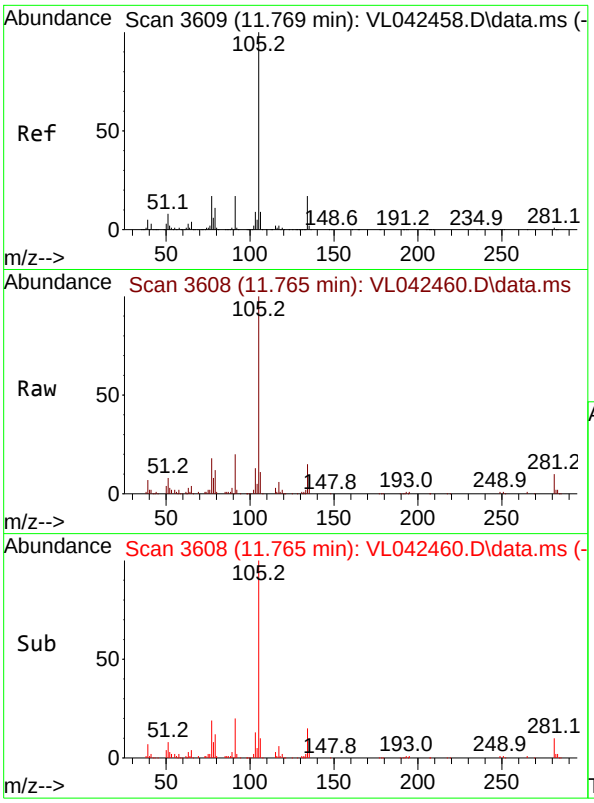


#66
Benzyl Chloride
Concen: 0.978 ppbv
RT: 11.613 min Scan# 3561
Delta R.T. -0.000 min
Lab File: VL042460.D
Acq: 01 May 2025 10:08

Tgt Ion: 91 Resp: 3486

Ion	Ratio	Lower	Upper
91	100		
126	15.3	13.3	19.9
128	3.1	4.2	6.4#

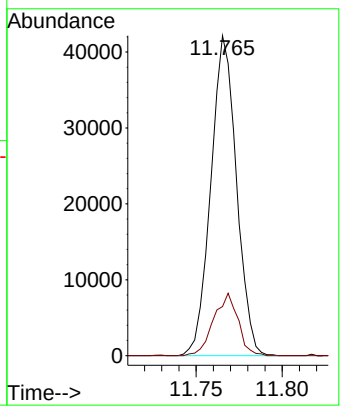




#67
sec-Butylbenzene
Concen: 0.998 ppbv
RT: 11.765 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042460.D
Acq: 01 May 2025 10:08

Tgt Ion:105 Resp: 4374

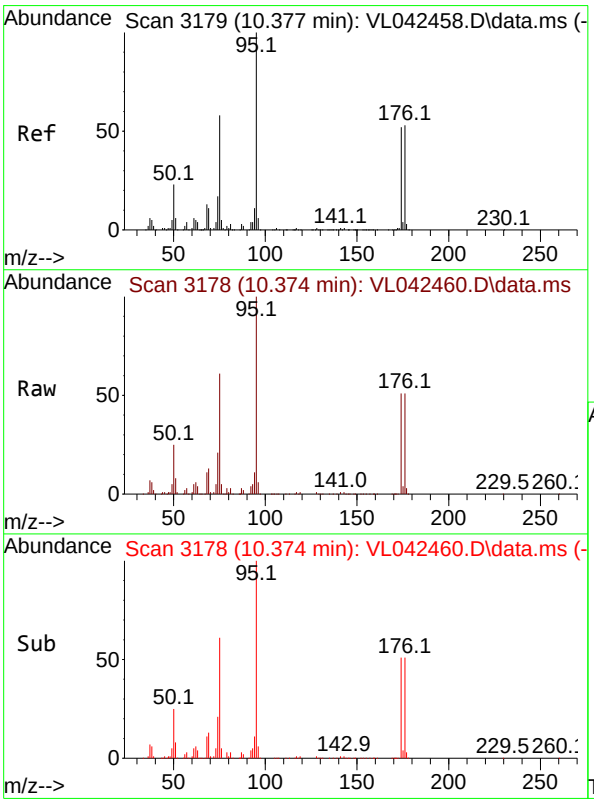
Ion	Ratio	Lower	Upper
105	100		
134	18.6	14.1	21.1



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

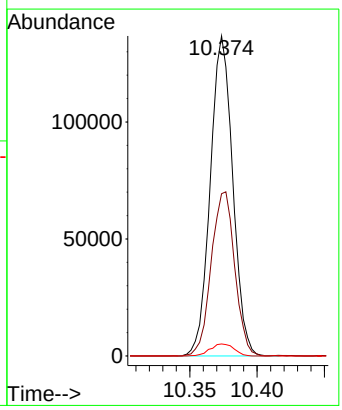
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

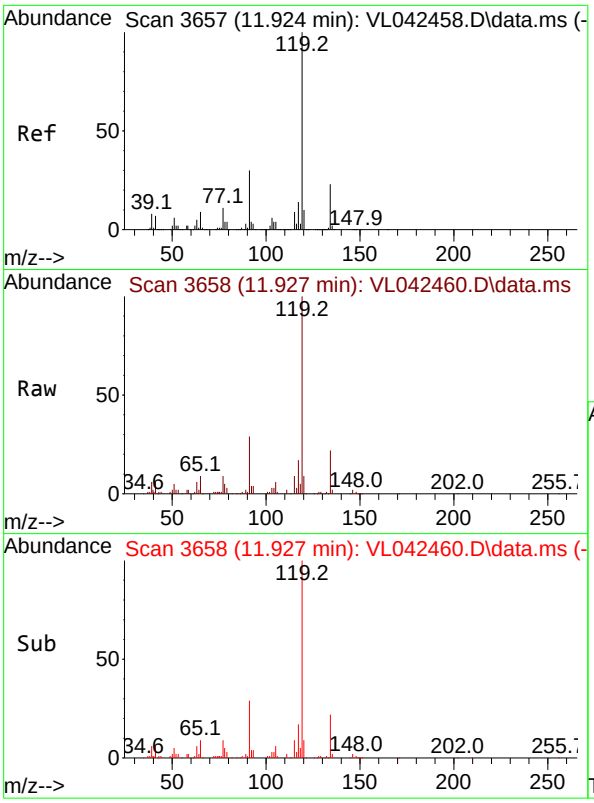


#68
1-Bromo-4-Fluorobenzene
Concen: 10.011 ppbv
RT: 10.374 min Scan# 3178
Delta R.T. -0.003 min
Lab File: VL042460.D
Acq: 01 May 2025 10:08

Tgt Ion: 95 Resp: 158600

Ion	Ratio	Lower	Upper
95	100		
174	53.7	42.7	64.1
175	4.0	3.6	5.4

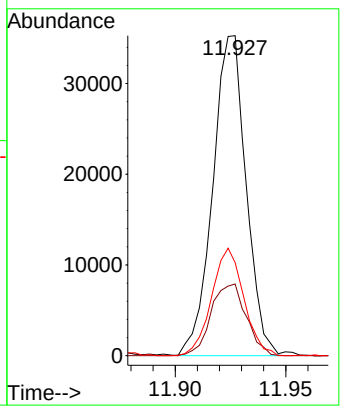




#69
p-Isopropyltoluene
Concen: 1.002 ppbv
RT: 11.927 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042460.D
Acq: 01 May 2025 10:08

Tgt Ion:119 Resp: 3701

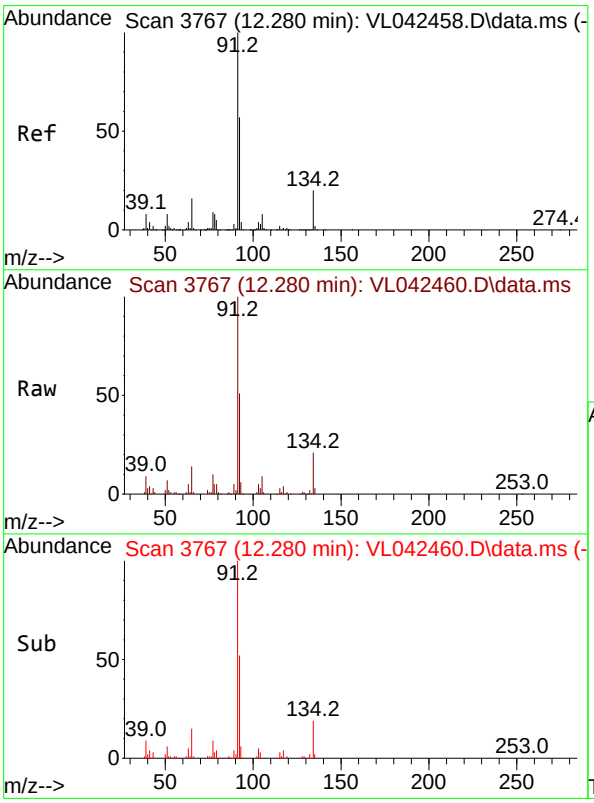
Ion	Ratio	Lower	Upper
119	100		
134	23.6	19.0	28.4
91	32.8	25.5	38.3



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

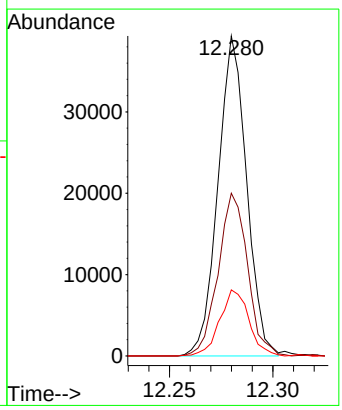
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

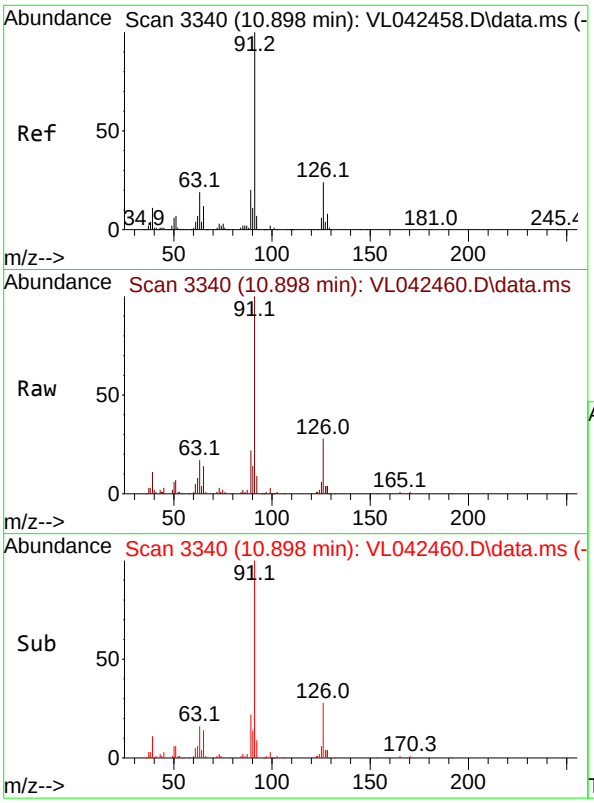


#70
n-Butylbenzene
Concen: 0.992 ppbv
RT: 12.280 min Scan# 3767
Delta R.T. -0.000 min
Lab File: VL042460.D
Acq: 01 May 2025 10:08

Tgt Ion: 91 Resp: 37892

Ion	Ratio	Lower	Upper
91	100		
92	52.5	44.0	66.0
134	21.2	16.8	25.2

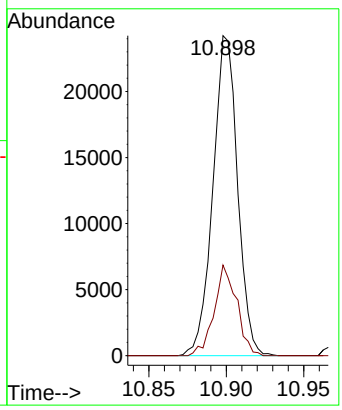




#71
2-Chlorotoluene
Concen: 0.989 ppbv
RT: 10.898 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042460.D
Acq: 01 May 2025 10:08

Tgt Ion: 91 Resp: 2681

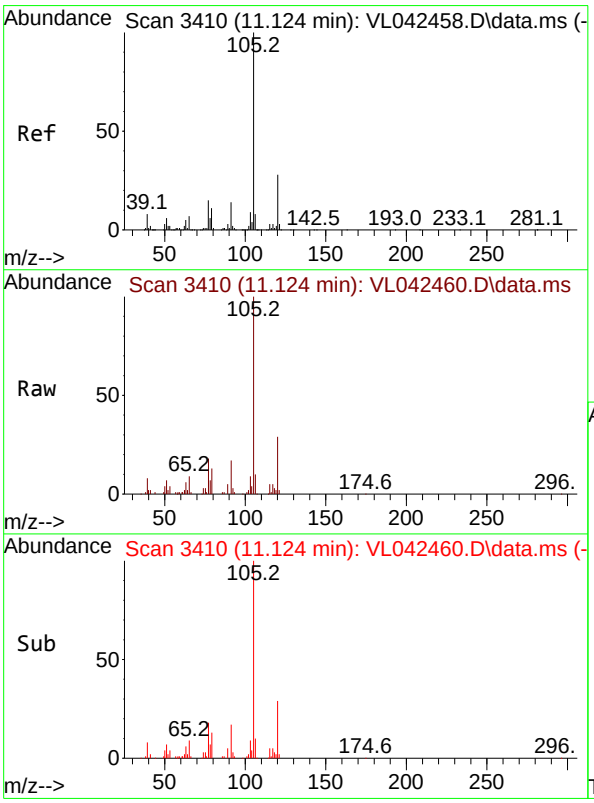
Ion	Ratio	Lower	Upper
91	100		
126	25.9	10.6	42.2



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

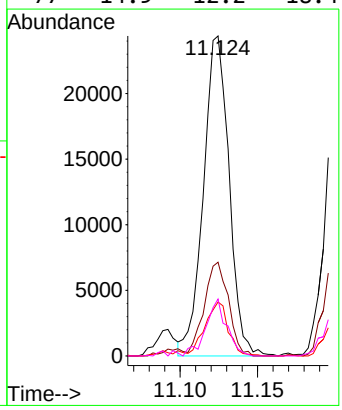
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

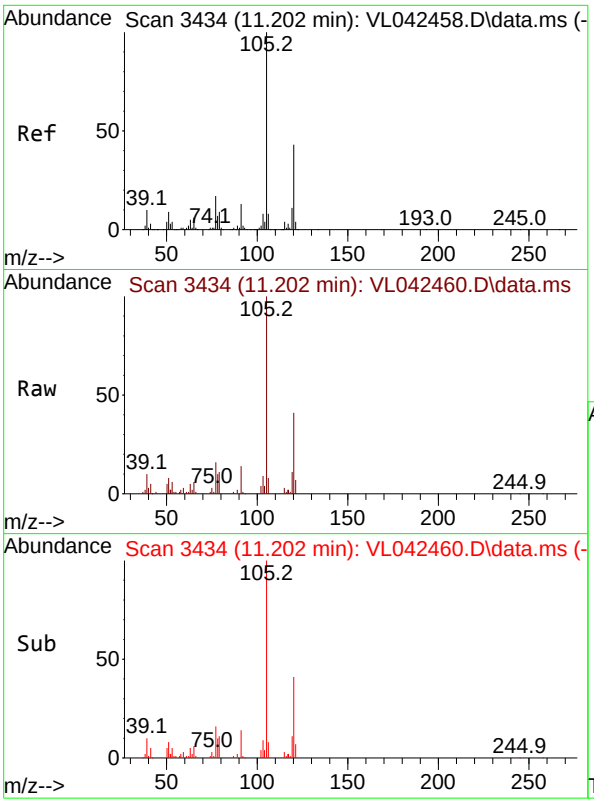


#72
4-Ethyltoluene
Concen: 0.996 ppbv
RT: 11.124 min Scan# 3410
Delta R.T. -0.000 min
Lab File: VL042460.D
Acq: 01 May 2025 10:08

Tgt Ion:105 Resp: 28149

Ion	Ratio	Lower	Upper
105	100		
120	29.5	22.0	33.0
91	16.6	11.2	16.8
77	14.9	12.2	18.4

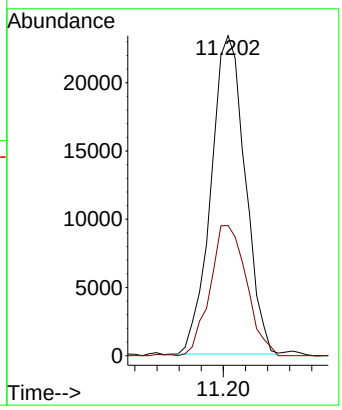




#73
1,3,5-Trimethylbenzene
Concen: 1.009 ppbv
RT: 11.202 min Scan# 34
Delta R.T. -0.000 min
Lab File: VL042460.D
Acq: 01 May 2025 10:08

Tgt Ion:105 Resp: 2507

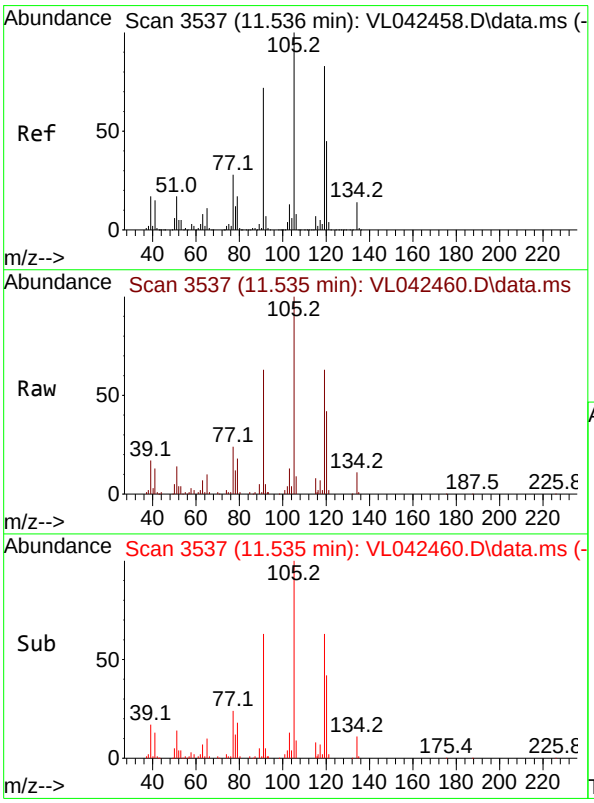
Ion	Ratio	Lower	Upper
105	100		
120	40.8	34.4	51.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

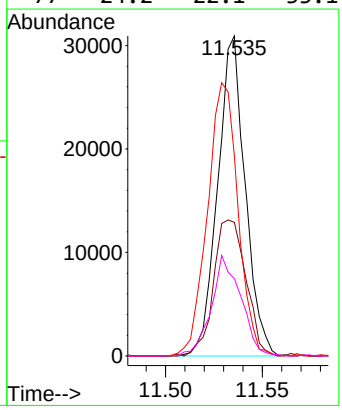
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

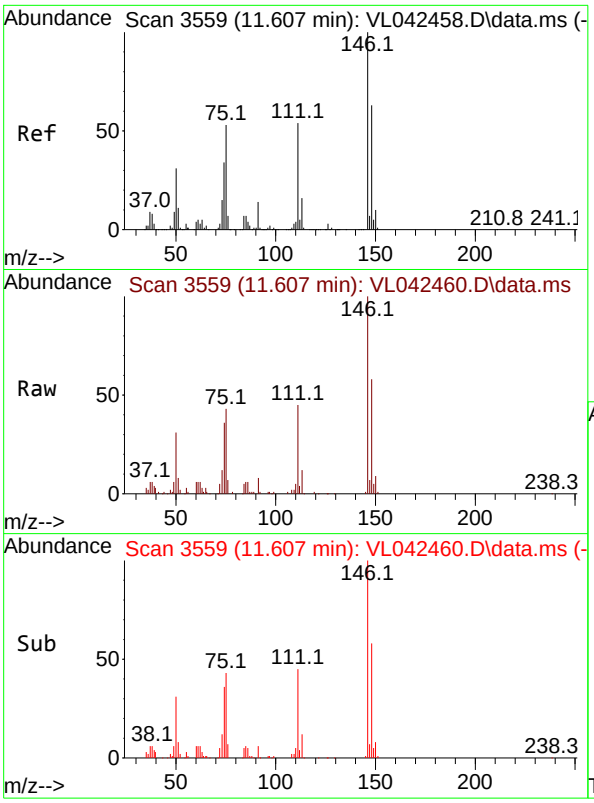


#74
1,2,4-Trimethylbenzene
Concen: 1.016 ppbv
RT: 11.535 min Scan# 3537
Delta R.T. -0.000 min
Lab File: VL042460.D
Acq: 01 May 2025 10:08

Tgt Ion:105 Resp: 30550

Ion	Ratio	Lower	Upper
105	100		
120	41.7	36.1	54.1
91	62.6	57.6	86.4
77	24.2	22.1	33.1

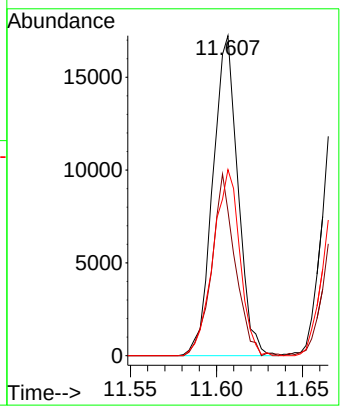




#75
1,3-Dichlorobenzene
Concen: 1.043 ppbv
RT: 11.607 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042460.D
Acq: 01 May 2025 10:08

Tgt Ion:146 Resp: 1745

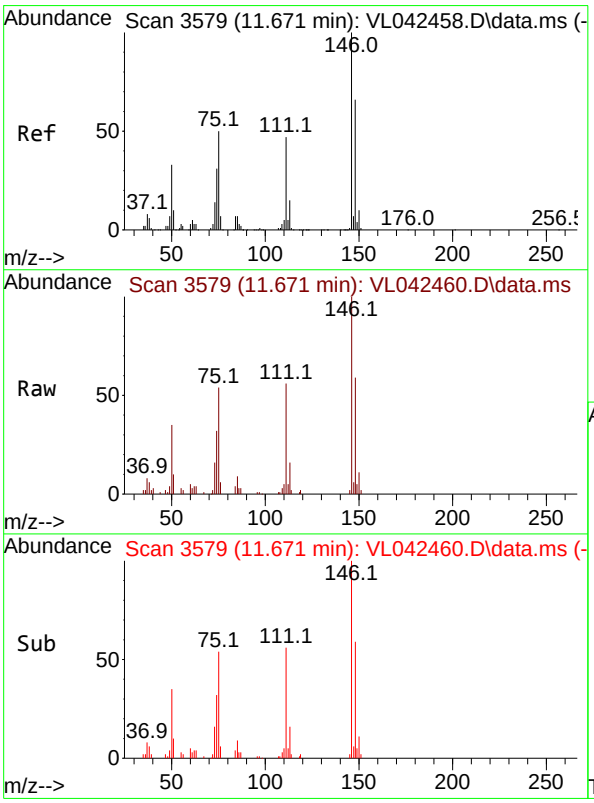
Ion	Ratio	Lower	Upper
146	100		
111	53.0	26.1	78.3
148	61.8	32.0	96.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

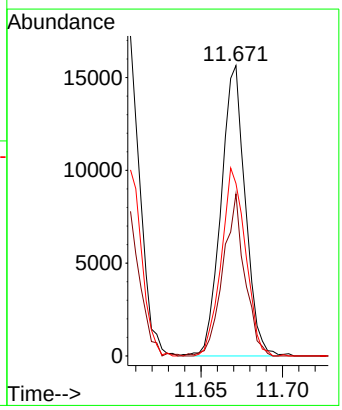
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

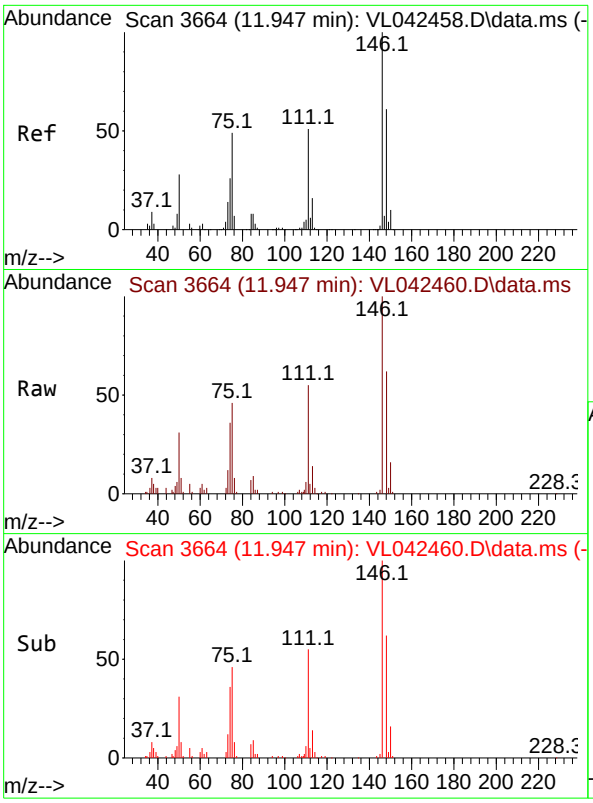


#76
1,4-Dichlorobenzene
Concen: 1.019 ppbv
RT: 11.671 min Scan# 3579
Delta R.T. -0.000 min
Lab File: VL042460.D
Acq: 01 May 2025 10:08

Tgt Ion:146 Resp: 16151

Ion	Ratio	Lower	Upper
146	100		
111	50.3	24.4	73.2
148	64.8	32.0	96.2

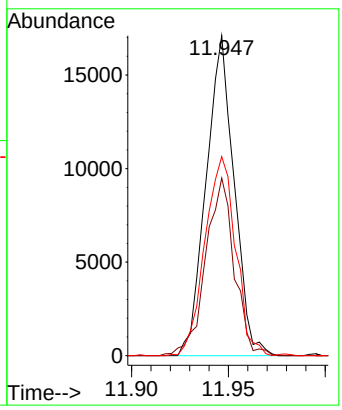




#77
1,2-Dichlorobenzene
Concen: 1.050 ppbv
RT: 11.947 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042460.D
Acq: 01 May 2025 10:08

Tgt Ion:146 Resp: 1720

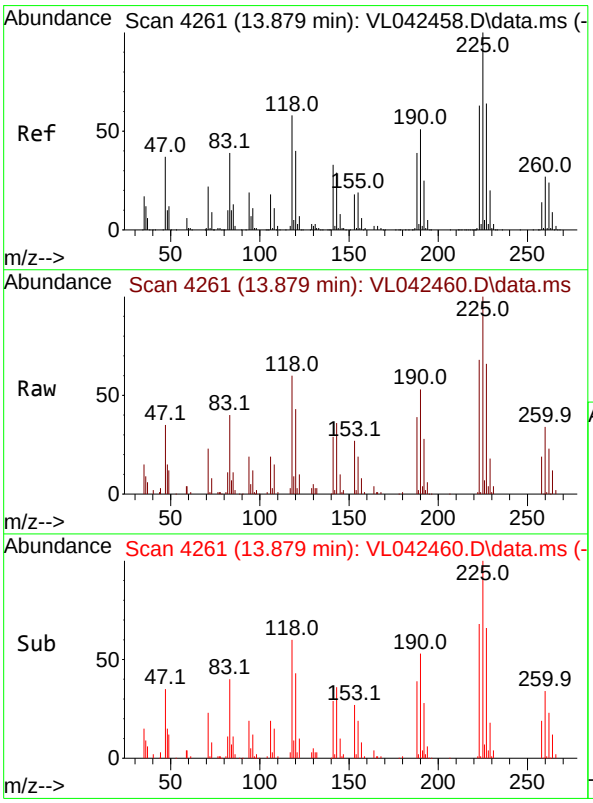
Ion	Ratio	Lower	Upper
146	100		
111	56.8	26.5	79.5
148	68.5	31.5	94.5



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

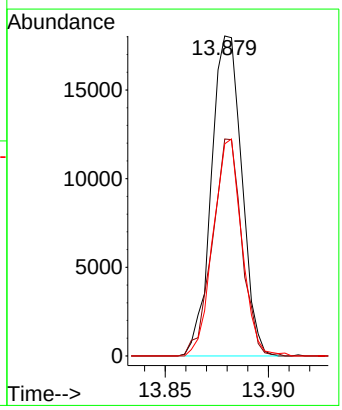
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

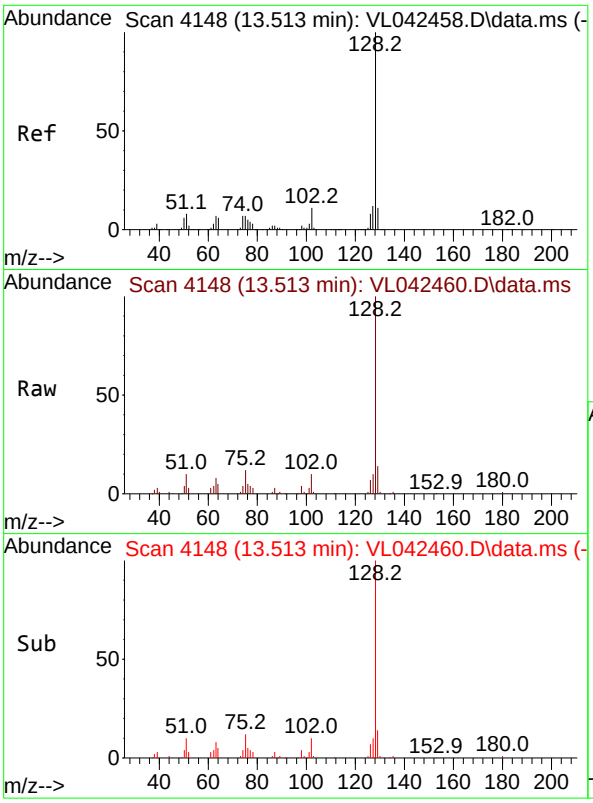


#78
Hexachloro-1,3-Butadiene
Concen: 1.129 ppbv
RT: 13.879 min Scan# 4261
Delta R.T. -0.000 min
Lab File: VL042460.D
Acq: 01 May 2025 10:08

Tgt Ion:225 Resp: 18472

Ion	Ratio	Lower	Upper
225	100		
223	65.3	50.2	75.4
227	63.8	51.2	76.8

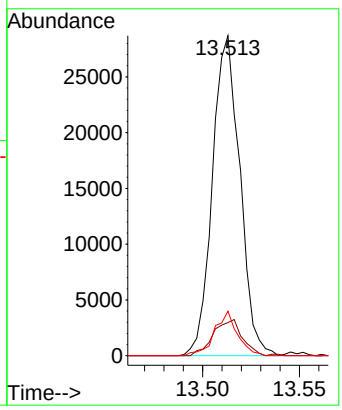




#79
Naphthalene
Concen: 1.123 ppbv
RT: 13.513 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042460.D
Acq: 01 May 2025 10:08

Tgt Ion:128 Resp: 2831

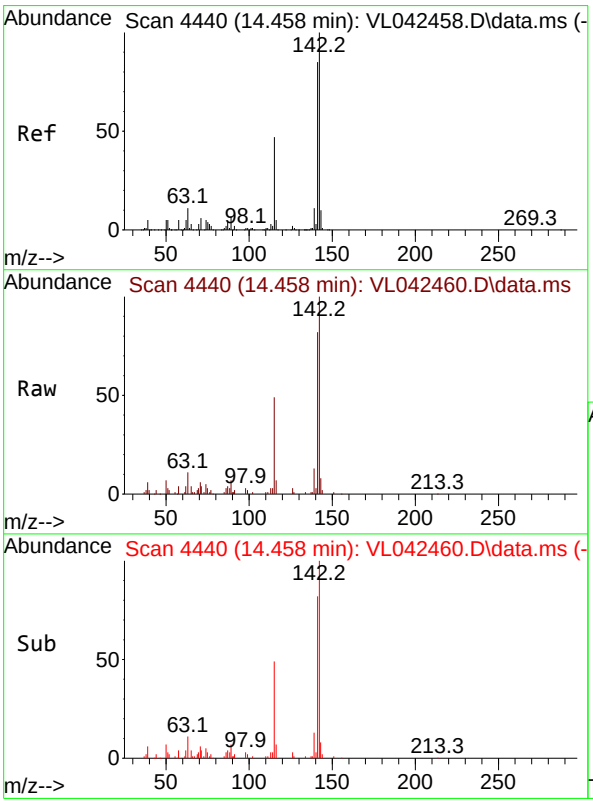
Ion	Ratio	Lower	Upper
128	100		
127	10.4	9.7	14.5
129	13.9	8.6	13.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

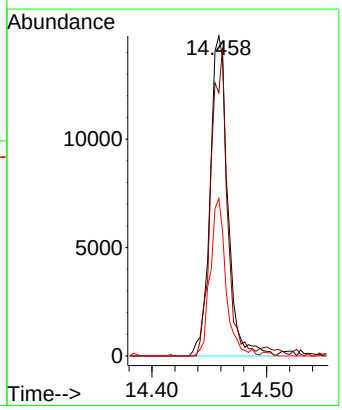
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

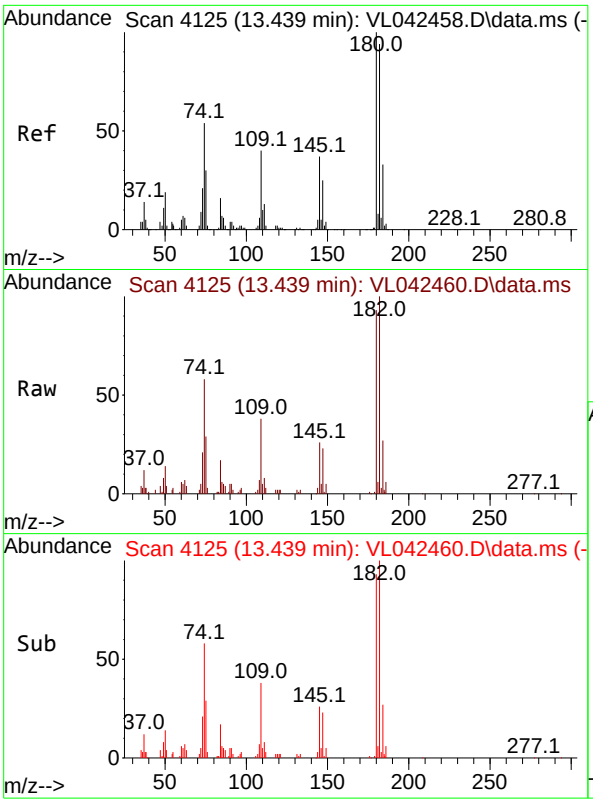


#80
Naphthalene,2-methyl-
Concen: 0.840 ppbv
RT: 14.458 min Scan# 4440
Delta R.T. -0.000 min
Lab File: VL042460.D
Acq: 01 May 2025 10:08

Tgt Ion:142 Resp: 15804

Ion	Ratio	Lower	Upper
142	100		
141	92.3	67.4	101.0
115	44.3	36.9	55.3

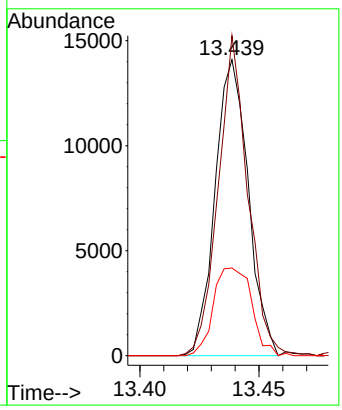




#81
1,2,4-Trichlorobenzene
Concen: 1.011 ppbv
RT: 13.439 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042460.D
Acq: 01 May 2025 10:08

Tgt Ion:180 Resp: 1364

Ion	Ratio	Lower	Upper
180	100		
182	96.5	74.6	111.8
184	34.1	24.9	37.3



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050125\
Data File : VL042461.D
Acq On : 01 May 2025 10:40
Operator : SY/MD
Sample : VSTDICC0.5
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 02 01:42:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri May 02 01:37:48 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.790	49	68913	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.962	114	193701	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.885	117	166625	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.377	95	150277	9.728	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 97.300%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.499	85	6501	0.570	ppbv		94
3) Chlorodifluoromethane	1.476	51	6500	0.539	ppbv		99
4) Chloromethane	1.535	50	2542	0.533	ppbv		95
5) Vinyl Chloride	1.580	62	2441	0.509	ppbv		92
6) Bromomethane	1.667	94	1202	0.530	ppbv		97
7) Chloroethane	1.703	64	862	0.486	ppbv	#	68
8) Dichlorotetrafluoroethane	1.554	85	4979	0.530	ppbv		93
9) Propene	1.486	41	2017	0.511	ppbv		96
10) Heptane	4.982	43	4397m	0.430	ppbv		
11) Trichlorofluoromethane	1.878	101	5720	0.562	ppbv		95
12) 1,1,2-Trichlorotrifluo...	2.137	101	4540	0.540	ppbv		94
13) Ethanol	1.722	45	474m	0.592	ppbv		
14) Bromoethene	1.784	108	1680	0.542	ppbv	#	87
15) Acetone	1.839	43	7680	0.610	ppbv	#	82
16) 1,3-Butadiene	1.609	39	3044	0.549	ppbv		86
17) tert-Butyl alcohol	2.046	59	6256	0.564	ppbv	#	91
18) 1,1-Dichloroethene	2.036	96	2240	0.571	ppbv		94
19) Isopropyl Alcohol	1.887	45	4208	0.604	ppbv	#	96
20) Methylene Chloride	2.062	84	2594	0.686	ppbv	#	80
21) Allyl Chloride	2.098	41	4420	0.546	ppbv	#	93
22) trans-1,2-Dichloroethene	2.340	96	2554	0.557	ppbv		95
23) Vinyl Acetate	2.460	43	6541	0.558	ppbv	#	95
24) 1,1-Dichloroethane	2.412	63	4933	0.528	ppbv		98
25) Ethyl Acetate	2.842	43	10344	0.514	ppbv	#	96
26) Hexane	2.829	57	4403	0.502	ppbv		95
27) Carbon Disulfide	2.153	76	5201	0.508	ppbv	#	1
28) Methyl tert-Butyl Ether	2.441	73	2762	0.524	ppbv	#	82
29) Chloroform	2.852	83	8791	0.535	ppbv		92
30) Cyclohexane	3.855	84	3910m	0.533	ppbv		
31) cis-1,2-Dichloroethene	2.726	61	5345m	0.522	ppbv		
32) 1,1,1-Trichloroethane	3.366	97	8846m	0.496	ppbv		
34) 2-Butanone	2.564	43	7766	0.554	ppbv		93
35) Carbon Tetrachloride	3.768	117	8286	0.492	ppbv		86
36) Benzene	3.655	78	8951	0.490	ppbv	#	92
37) 1,2-Dichloroethane	3.224	62	7149	0.507	ppbv	#	95
38) Trichloroethene	4.548	130	3769m	0.541	ppbv		
39) 1,2-Dichloropropane	4.321	63	3561m	0.520	ppbv		
40) 1,4-Dioxane	4.619	88	1701m	0.534	ppbv		
41) Tetrahydrofuran	3.069	42	3187m	0.480	ppbv		
42) Bromodichloromethane	4.496	83	8212	0.477	ppbv		93
43) Methyl Methacrylate	4.891	69	3179m	0.467	ppbv		
44) 2,2,4-Trimethylpentane	4.648	57	14435m	0.489	ppbv		
45) t-1,3-Dichloropropene	6.415	75	4238m	0.473	ppbv		

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050125\
Data File : VL042461.D
Acq On : 01 May 2025 10:40
Operator : SY/MD
Sample : VSTDICC0.5
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 02 01:42:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Fri May 02 01:37:48 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) cis-1,3-Dichloropropene	5.600	75	5091m	0.479	ppbv		
47) 1,1,2-Trichloroethane	6.584	97	3606m	0.480	ppbv		
48) Dibromochloromethane	7.390	129	6304m	0.498	ppbv		
49) Bromoform	9.484	173	5228	0.492	ppbv		97
50) 4-Methyl-2-Pentanone	5.771	43	8248m	0.466	ppbv		
51) 2-Hexanone	7.454	43	6283m	0.443	ppbv		
52) Tetrachloroethene	8.221	164	3151m	0.453	ppbv		
53) Toluene	6.933	91	9052m	0.468	ppbv		
54) 1,2-Dibromoethane	7.652	107	5705	0.494	ppbv		83
56) 1,1,1,2-Tetrachloroethane	8.924	131	5152	0.524	ppbv	#	92
57) Chlorobenzene	8.924	112	9173	0.548	ppbv	#	86
58) Ethyl Benzene	9.357	91	12427	0.446	ppbv		90
59) m/p-Xylene	9.552	91	20195m	0.865	ppbv		
60) o-Xylene	9.966	91	9976m	0.427	ppbv		
61) Styrene	9.872	104	3457m	0.396	ppbv		
62) Isopropylbenzene	10.545	105	14837	0.440	ppbv		95
63) 1,1,2,2-Tetrachloroethane	9.963	83	8135	0.537	ppbv		96
64) n-propylbenzene	10.992	120	3329m	0.405	ppbv		
65) tert-Butylbenzene	11.536	119	12655	0.421	ppbv		99
66) Benzyl Chloride	11.613	91	1317m	0.379	ppbv		
67) sec-Butylbenzene	11.769	105	17905	0.419	ppbv		97
69) p-Isopropyltoluene	11.927	119	15036	0.417	ppbv		94
70) n-Butylbenzene	12.283	91	15016	0.403	ppbv		93
71) 2-Chlorotoluene	10.905	91	11702	0.443	ppbv		99
72) 4-Ethyltoluene	11.128	105	10671	0.387	ppbv	#	91
73) 1,3,5-Trimethylbenzene	11.206	105	9808	0.405	ppbv		89
74) 1,2,4-Trimethylbenzene	11.539	105	13060	0.445	ppbv	#	83
75) 1,3-Dichlorobenzene	11.607	146	8127	0.498	ppbv		96
76) 1,4-Dichlorobenzene	11.675	146	7238	0.469	ppbv		96
77) 1,2-Dichlorobenzene	11.950	146	8141	0.509	ppbv		94
78) Hexachloro-1,3-Butadiene	13.886	225	8565	0.537	ppbv		99
79) Naphthalene	13.517	128	9735m	0.396	ppbv		
80) Naphthalene,2-methyl-	14.458	142	4153	0.226	ppbv		98
81) 1,2,4-Trichlorobenzene	13.445	180	4992	0.379	ppbv		98

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

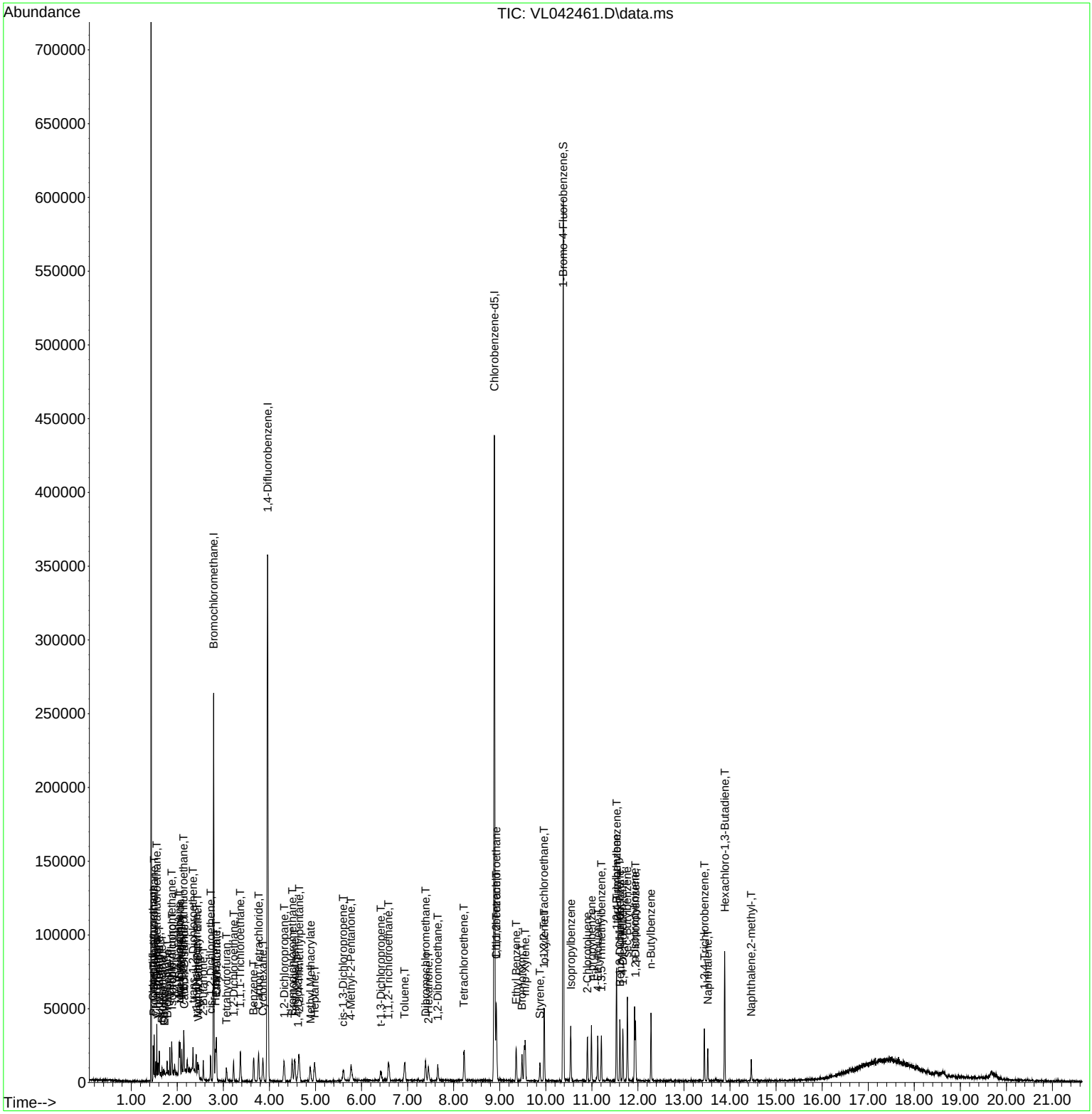
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050125\
Data File : VL042461.D
Acq On : 01 May 2025 10:40
Operator : SY/MD
Sample : VSTDICC0.5
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

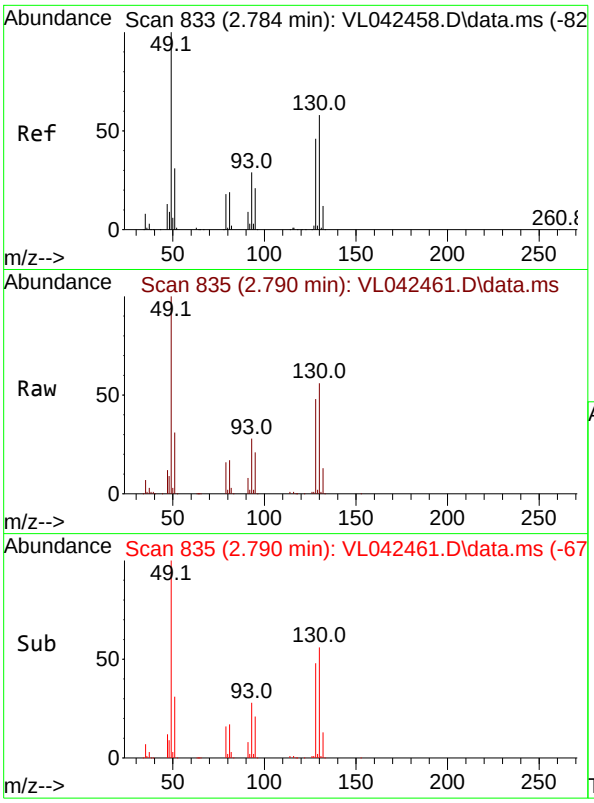
Quant Time: May 02 01:42:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri May 02 01:37:48 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

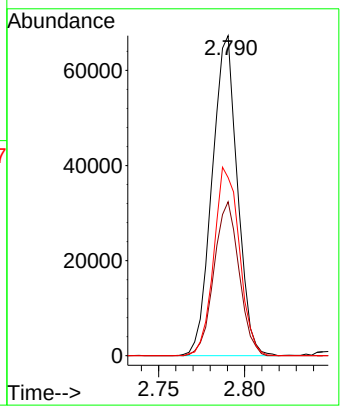




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 8
Delta R.T. 0.006 min
Lab File: VL042461.D
Acq: 01 May 2025 10:40

Tgt Ion: 49 Resp: 6891

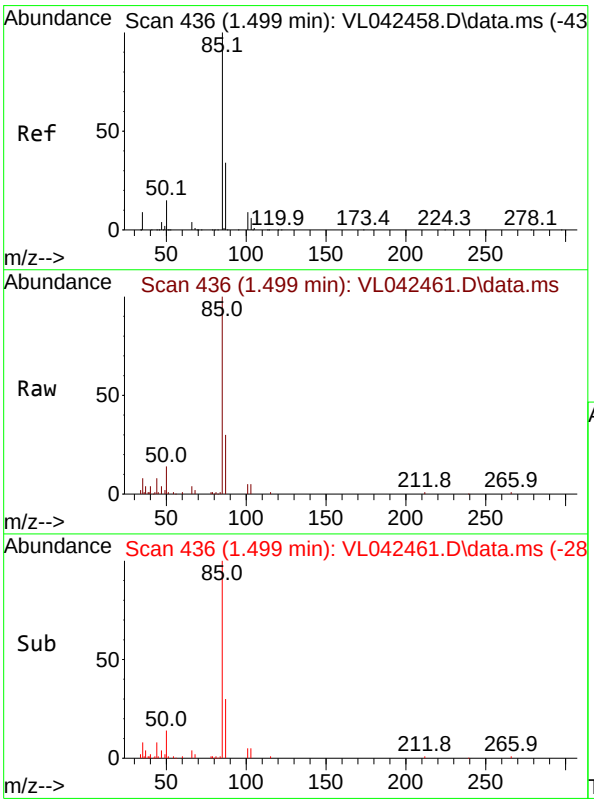
Ion	Ratio	Lower	Upper
49	100		
128	47.7	23.3	69.9
130	59.4	29.5	88.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

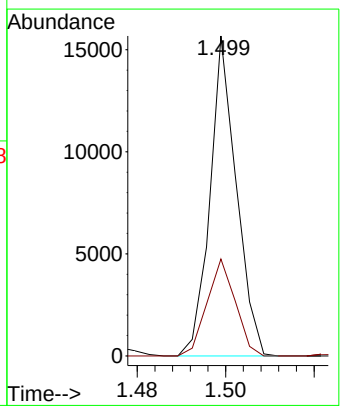
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

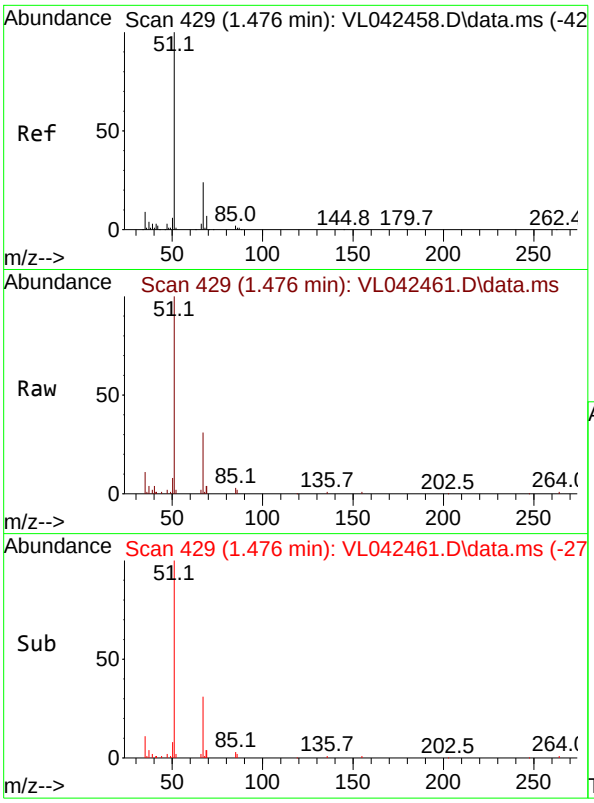


#2
Dichlorodifluoromethane
Concen: 0.570 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.000 min
Lab File: VL042461.D
Acq: 01 May 2025 10:40

Tgt Ion: 85 Resp: 6501

Ion	Ratio	Lower	Upper
85	100		
87	30.3	26.9	40.3

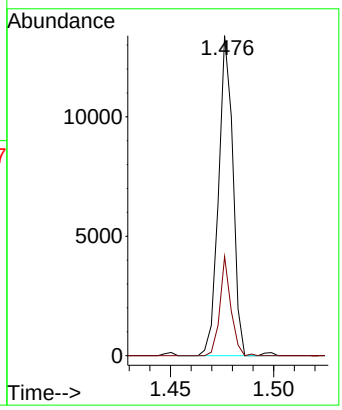




#3
Chlorodifluoromethane
Concen: 0.539 ppbv
RT: 1.476 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042461.D
Acq: 01 May 2025 10:40

Tgt Ion: 51 Resp: 650

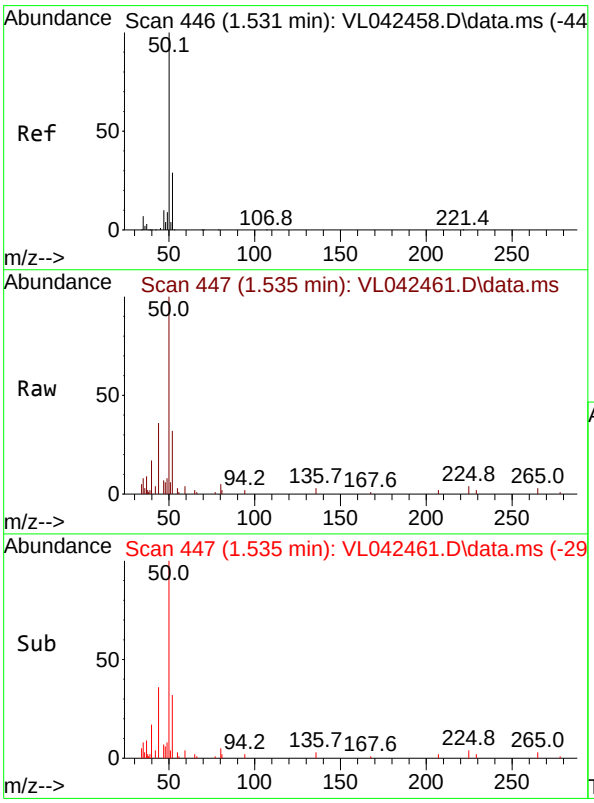
Ion	Ratio	Lower	Upper
51	100		
67	23.7	18.4	27.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

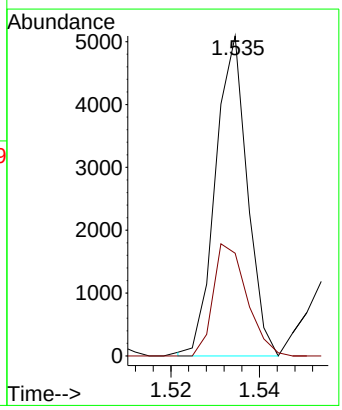
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

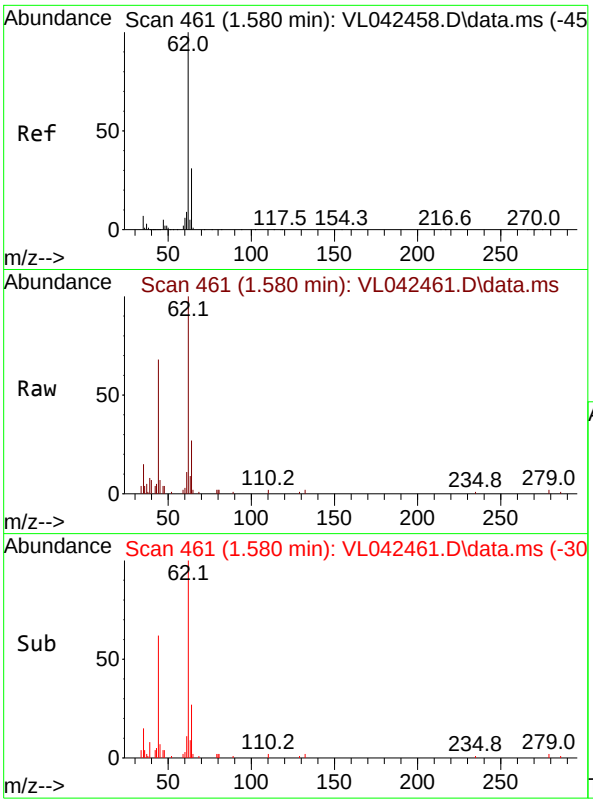


#4
Chloromethane
Concen: 0.533 ppbv
RT: 1.535 min Scan# 447
Delta R.T. 0.003 min
Lab File: VL042461.D
Acq: 01 May 2025 10:40

Tgt Ion: 50 Resp: 2542

Ion	Ratio	Lower	Upper
50	100		
52	32.1	23.5	35.3

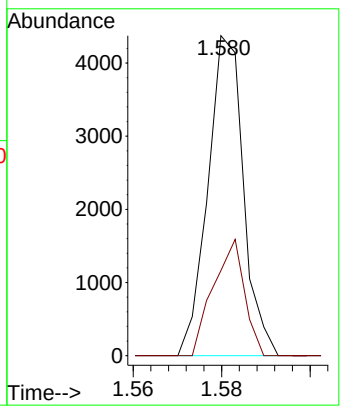




#5
Vinyl Chloride
Concen: 0.509 ppbv
RT: 1.580 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042461.D
Acq: 01 May 2025 10:40

Tgt Ion: 62 Resp: 244

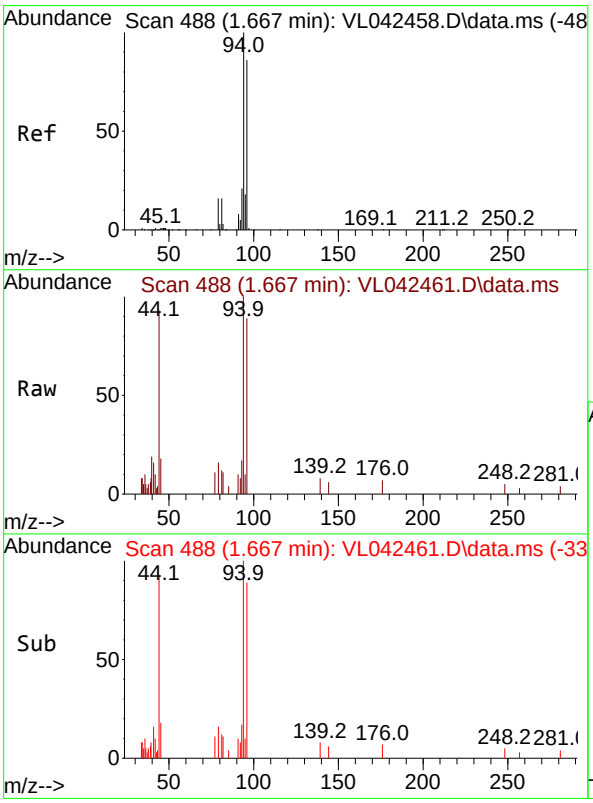
Ion	Ratio	Lower	Upper
62	100		
64	26.6	24.9	37.3



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

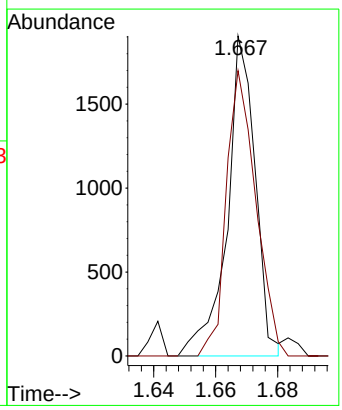
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

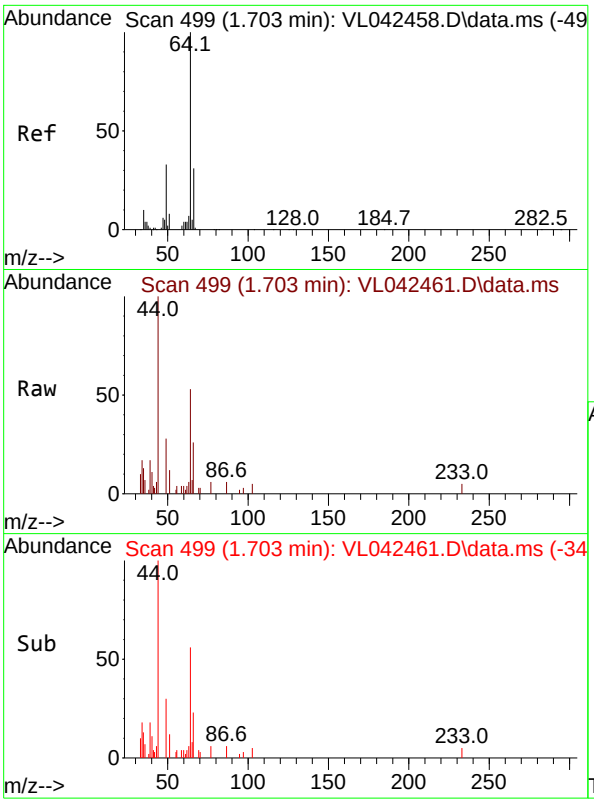


#6
Bromomethane
Concen: 0.530 ppbv
RT: 1.667 min Scan# 488
Delta R.T. 0.000 min
Lab File: VL042461.D
Acq: 01 May 2025 10:40

Tgt Ion: 94 Resp: 1202

Ion	Ratio	Lower	Upper
94	100		
96	89.1	68.8	103.2

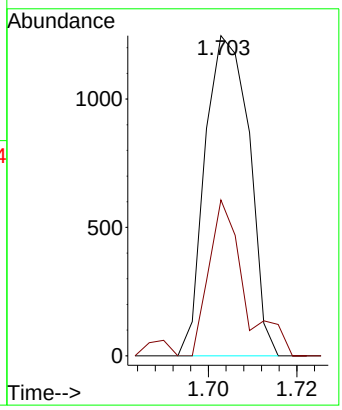




#7
Chloroethane
Concen: 0.486 ppbv
RT: 1.703 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042461.D
Acq: 01 May 2025 10:40

Tgt Ion: 64 Resp: 86

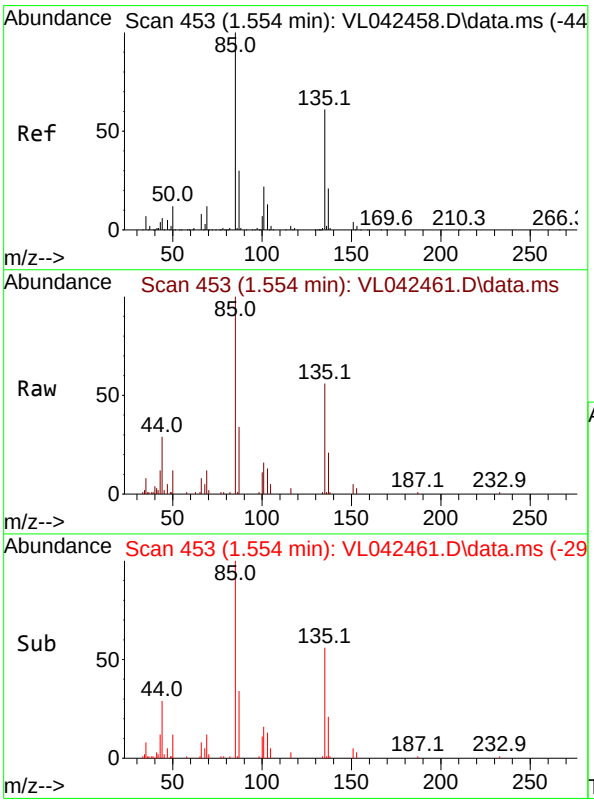
Ion	Ratio	Lower	Upper
64	100		
66	48.7	25.0	37.4



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

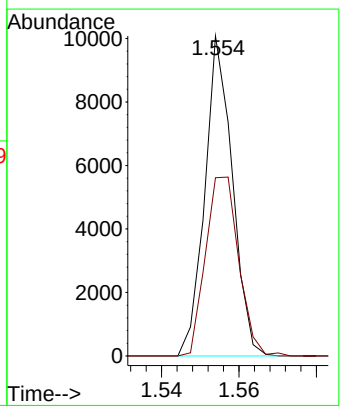
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

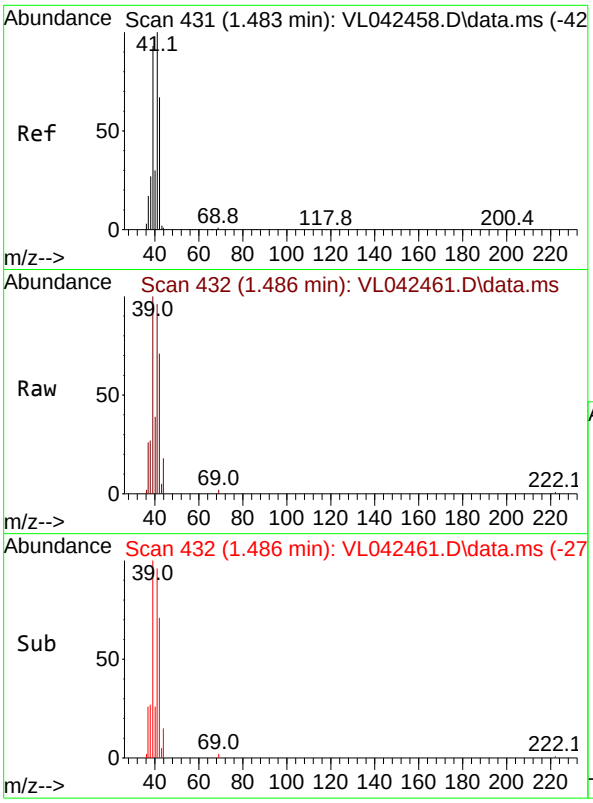


#8
Dichlorotetrafluoroethane
Concen: 0.530 ppbv
RT: 1.554 min Scan# 453
Delta R.T. 0.000 min
Lab File: VL042461.D
Acq: 01 May 2025 10:40

Tgt Ion: 85 Resp: 4979

Ion	Ratio	Lower	Upper
85	100		
135	67.4	49.8	74.8

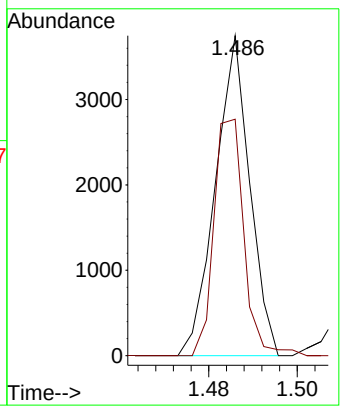




#9
Propene
Concen: 0.511 ppbv
RT: 1.486 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL042461.D
Acq: 01 May 2025 10:40

Tgt Ion: 41 Resp: 201

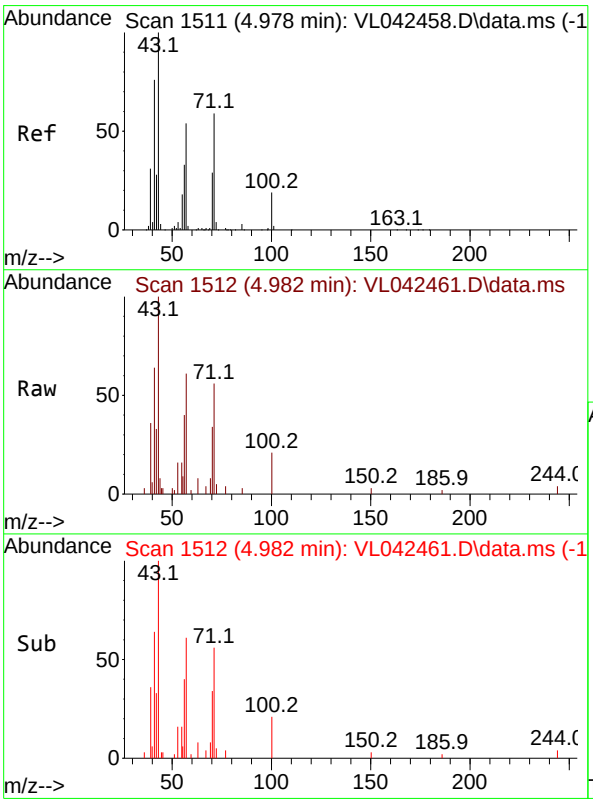
Ion	Ratio	Lower	Upper
41	100		
42	64.7	54.3	81.5



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

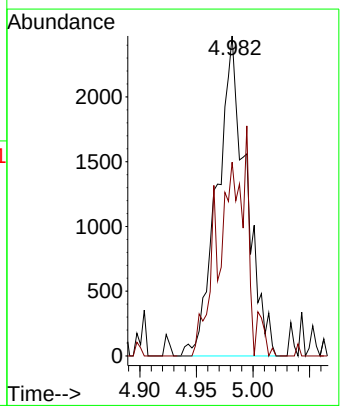
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

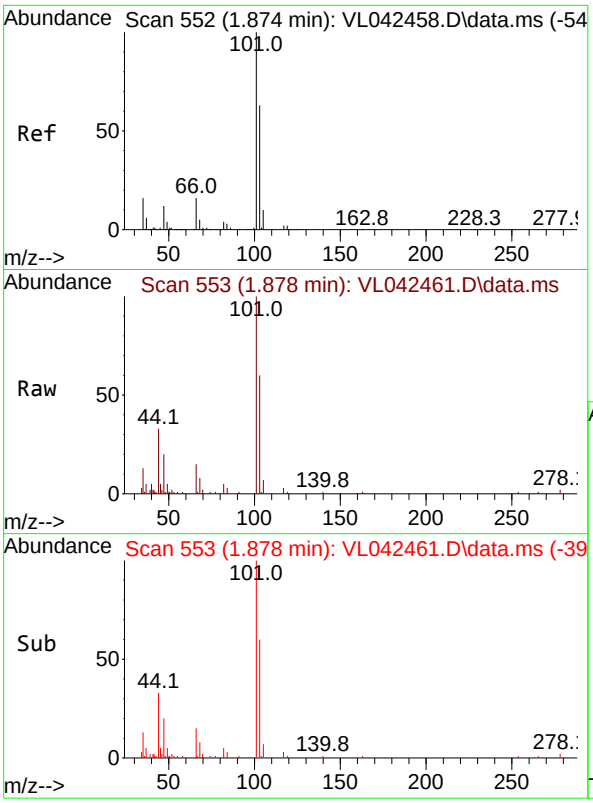


#10
Heptane
Concen: 0.430 ppbv m
RT: 4.982 min Scan# 1512
Delta R.T. 0.003 min
Lab File: VL042461.D
Acq: 01 May 2025 10:40

Tgt Ion: 43 Resp: 4397

Ion	Ratio	Lower	Upper
43	100		
57	65.1	41.8	62.8#

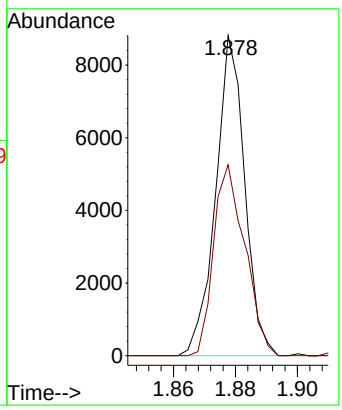




#11
Trichlorofluoromethane
Concen: 0.562 ppbv
RT: 1.878 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042461.D
Acq: 01 May 2025 10:40

Tgt Ion:101 Resp: 572

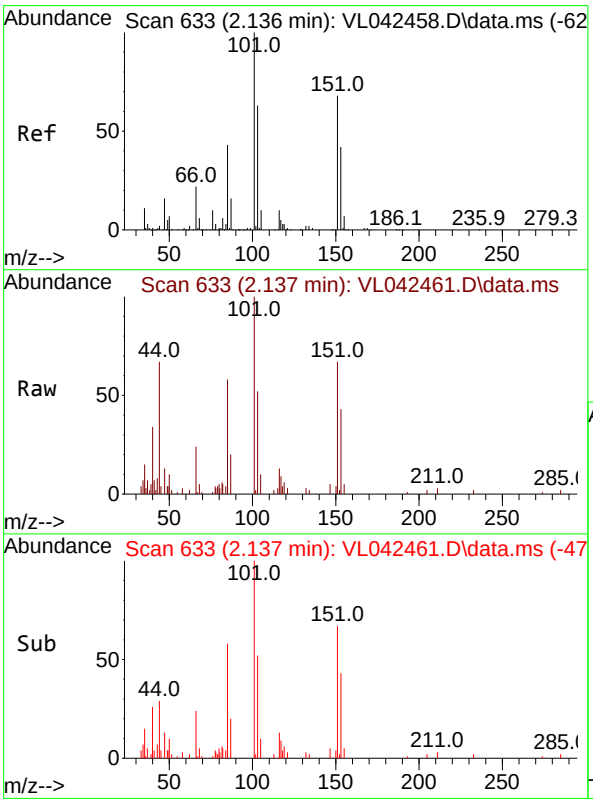
Ion	Ratio	Lower	Upper
101	100		
103	59.7	50.6	76.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

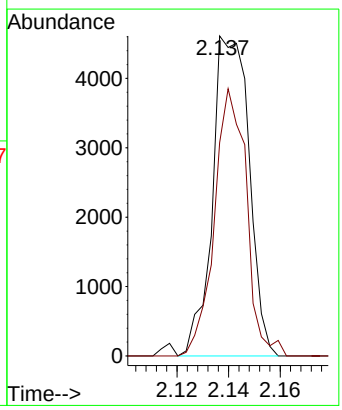
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

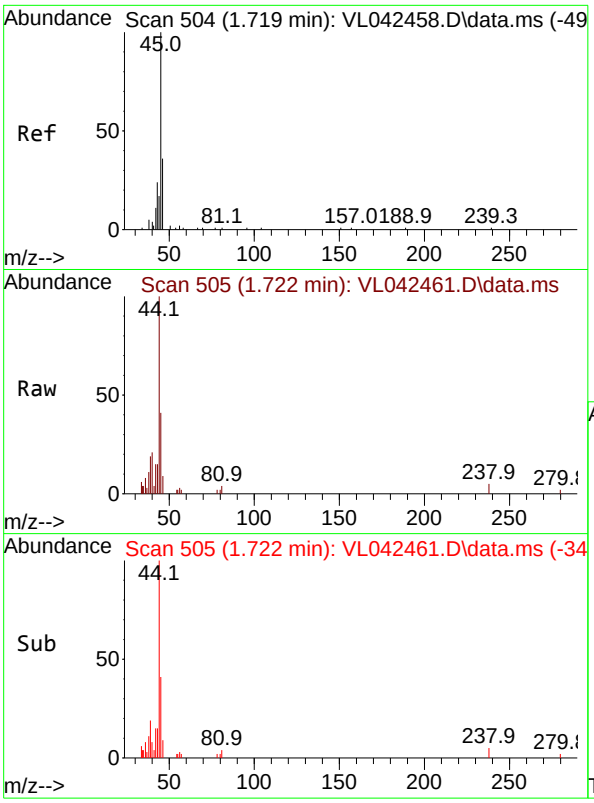


#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.540 ppbv
RT: 2.137 min Scan# 633
Delta R.T. 0.000 min
Lab File: VL042461.D
Acq: 01 May 2025 10:40

Tgt Ion:101 Resp: 4540

Ion	Ratio	Lower	Upper
101	100		
151	73.1	54.6	82.0

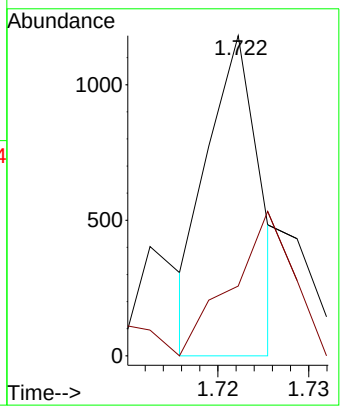




#13
Ethanol
Concen: 0.592 ppbv m
RT: 1.722 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042461.D
Acq: 01 May 2025 10:40

Tgt Ion: 45 Resp: 47

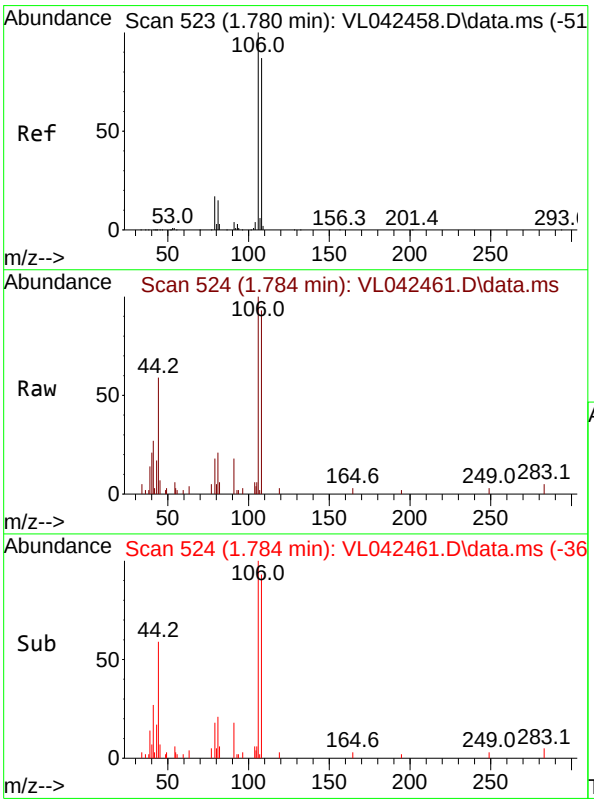
Ion	Ratio	Lower	Upper
45	100		
46	60.8	15.3	61.1



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

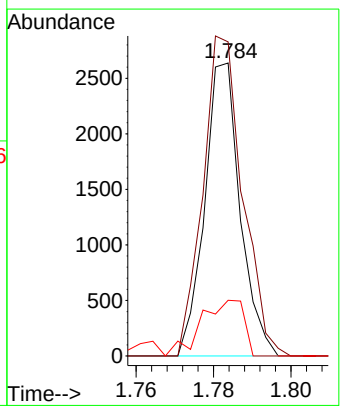
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

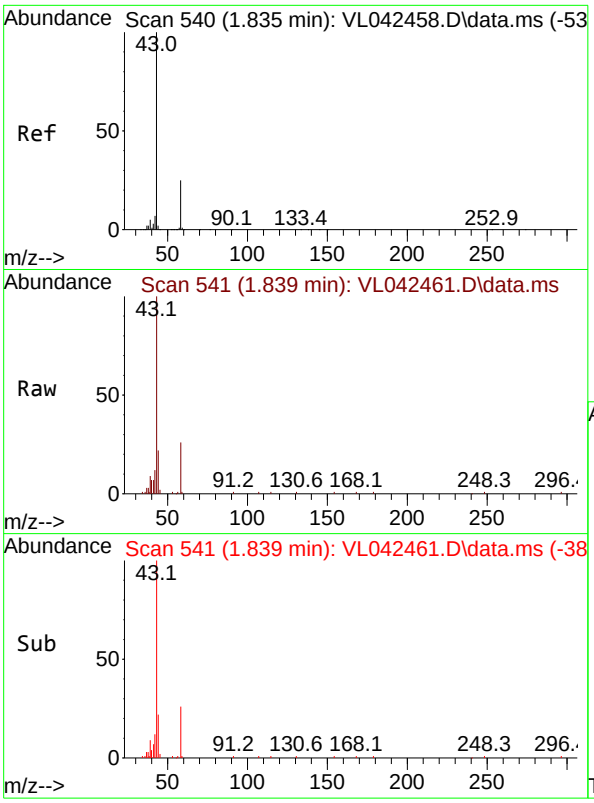


#14
Bromoethene
Concen: 0.542 ppbv
RT: 1.784 min Scan# 524
Delta R.T. 0.003 min
Lab File: VL042461.D
Acq: 01 May 2025 10:40

Tgt Ion:108 Resp: 1680

Ion	Ratio	Lower	Upper
108	100		
106	123.2	88.8	133.2
79	30.2	17.1	25.7#

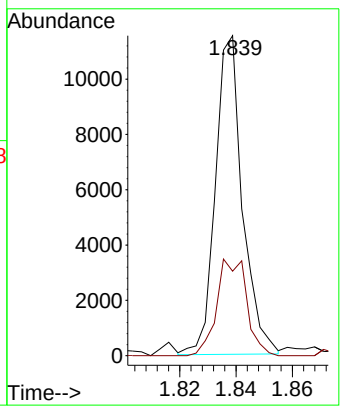




#15
Acetone
Concen: 0.610 ppbv
RT: 1.839 min Scan# 54
Delta R.T. 0.003 min
Lab File: VL042461.D
Acq: 01 May 2025 10:40

Tgt Ion: 43 Resp: 768

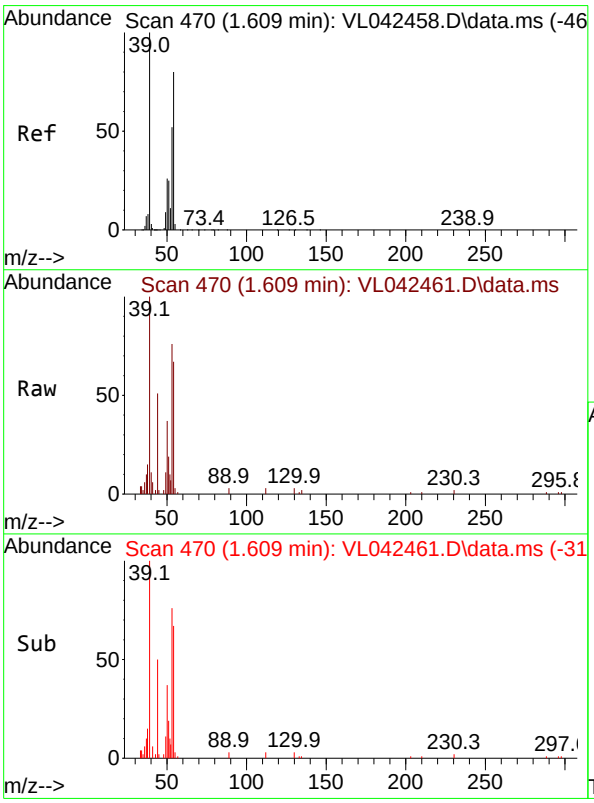
Ion	Ratio	Lower	Upper
43	100		
58	33.6	19.8	29.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

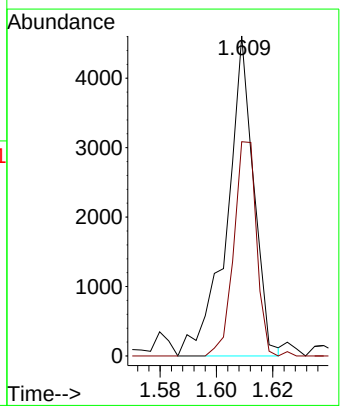
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

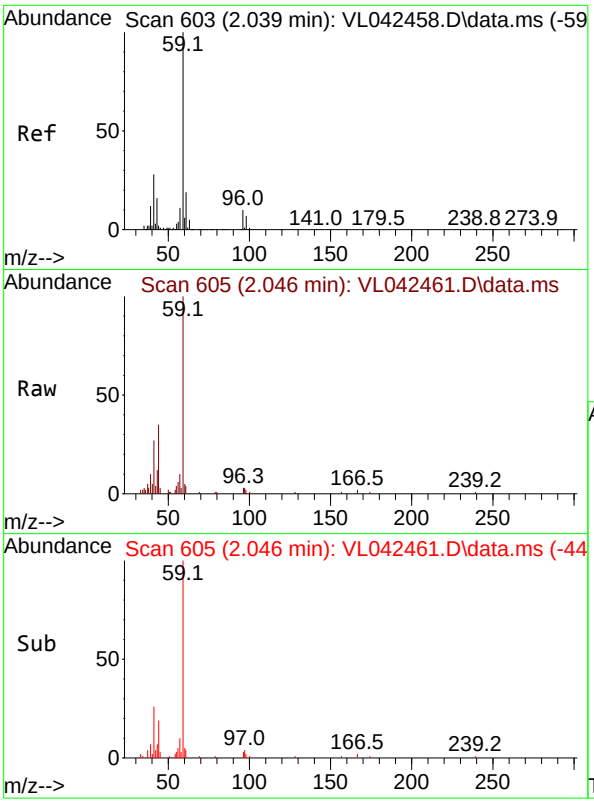


#16
1,3-Butadiene
Concen: 0.549 ppbv
RT: 1.609 min Scan# 470
Delta R.T. 0.000 min
Lab File: VL042461.D
Acq: 01 May 2025 10:40

Tgt Ion: 39 Resp: 3044

Ion	Ratio	Lower	Upper
39	100		
54	57.3	55.2	82.8

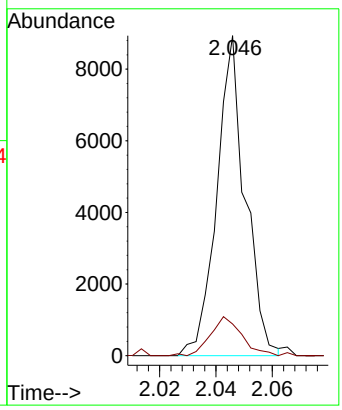




#17
tert-Butyl alcohol
Concen: 0.564 ppbv
RT: 2.046 min Scan# 6(
Delta R.T. 0.007 min
Lab File: VL042461.D
Acq: 01 May 2025 10:40

Tgt Ion: 59 Resp: 625(

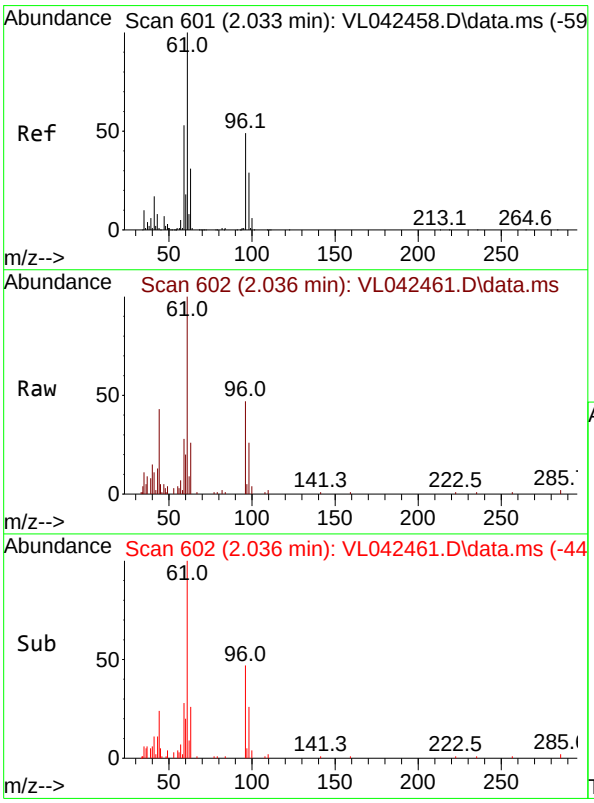
Ion	Ratio	Lower	Upper
59	100		
57	13.7	8.3	12.5#



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

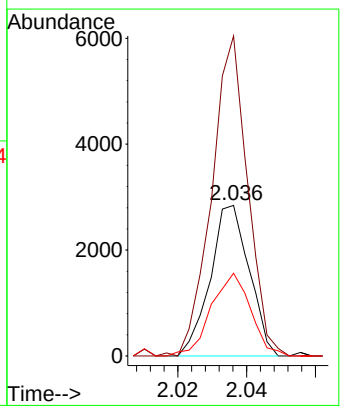
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

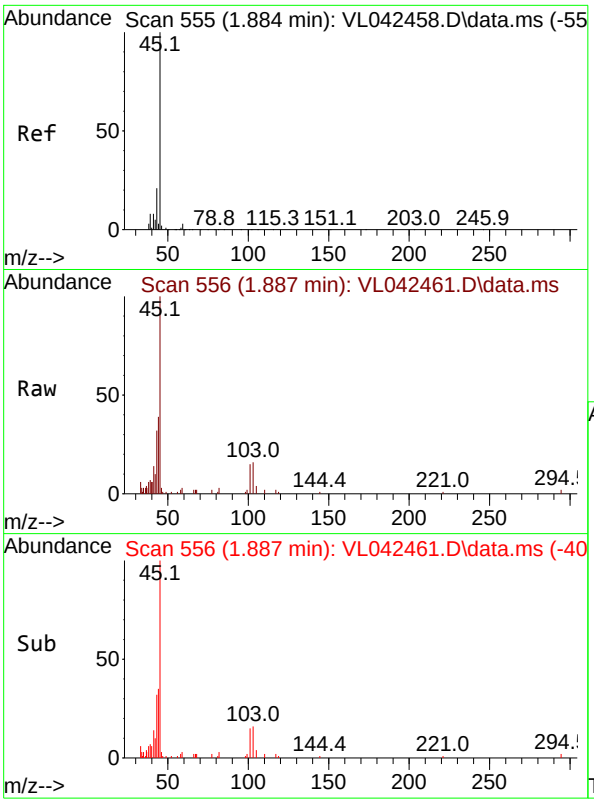


#18
1,1-Dichloroethene
Concen: 0.571 ppbv
RT: 2.036 min Scan# 602
Delta R.T. 0.003 min
Lab File: VL042461.D
Acq: 01 May 2025 10:40

Tgt Ion: 96 Resp: 2240

Ion	Ratio	Lower	Upper
96	100		
61	212.4	164.9	247.3
98	52.2	48.2	72.2

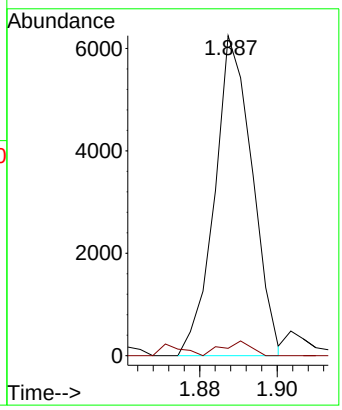




#19
Isopropyl Alcohol
Concen: 0.604 ppbv
RT: 1.887 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042461.D
Acq: 01 May 2025 10:40

Tgt Ion: 45 Resp: 420

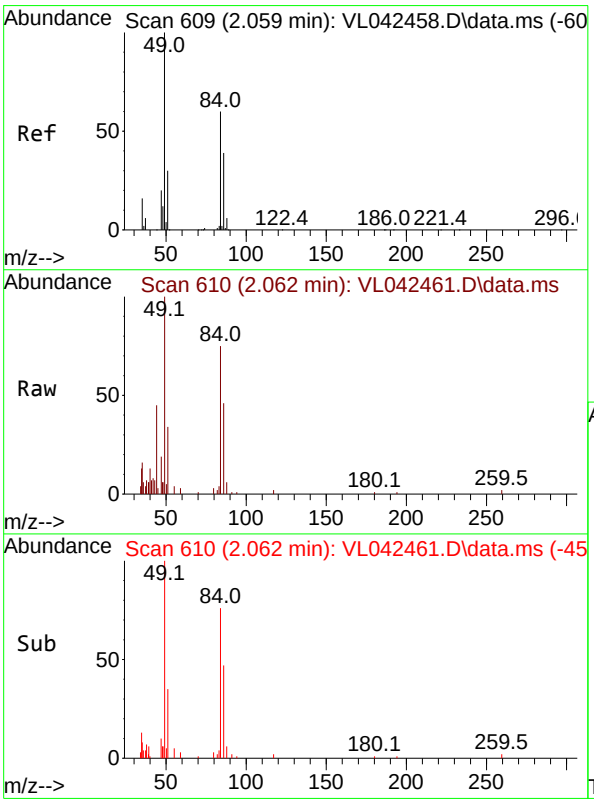
Ion	Ratio	Lower	Upper
45	100		
58	3.4	1.6	2.4#



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

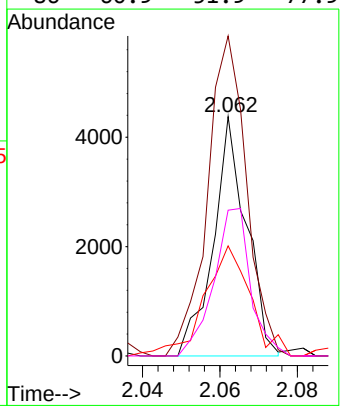
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

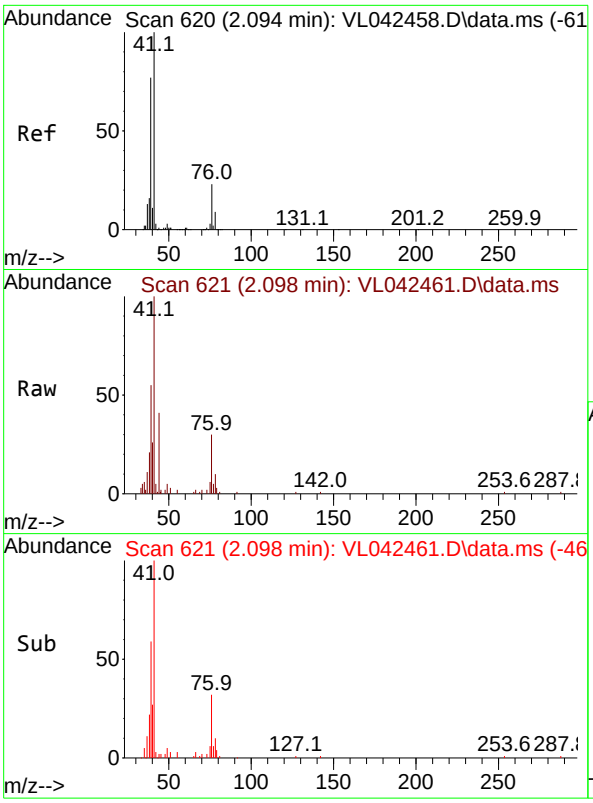


#20
Methylene Chloride
Concen: 0.686 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.003 min
Lab File: VL042461.D
Acq: 01 May 2025 10:40

Tgt Ion: 84 Resp: 2594

Ion	Ratio	Lower	Upper
84	100		
49	131.1	133.9	200.9#
51	40.9	41.0	61.6#
86	60.9	51.9	77.9

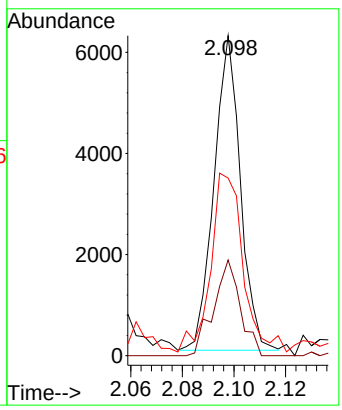




#21
Allyl Chloride
Concen: 0.546 ppbv
RT: 2.098 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL042461.D
Acq: 01 May 2025 10:40

Tgt Ion: 41 Resp: 442

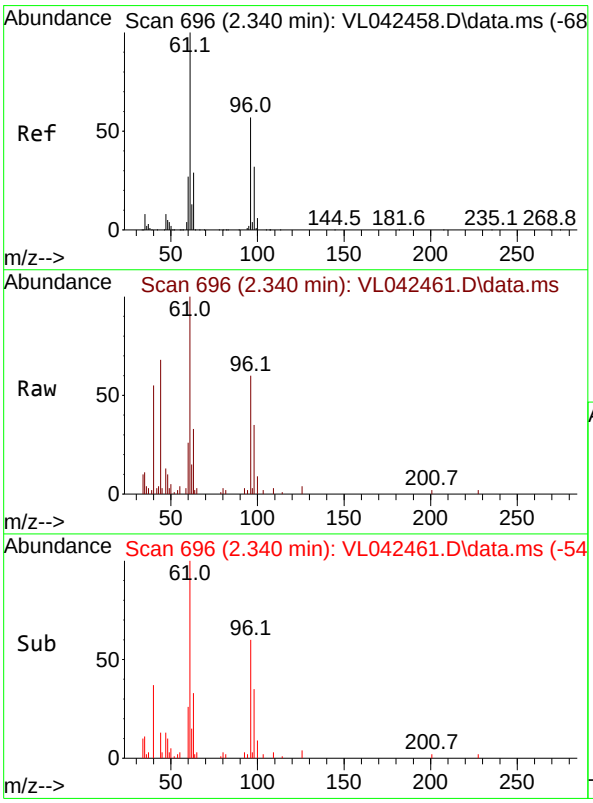
Ion	Ratio	Lower	Upper
41	100		
76	30.8	19.6	29.4
39	80.5	61.0	91.4



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

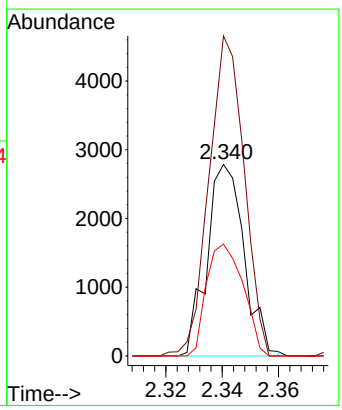
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

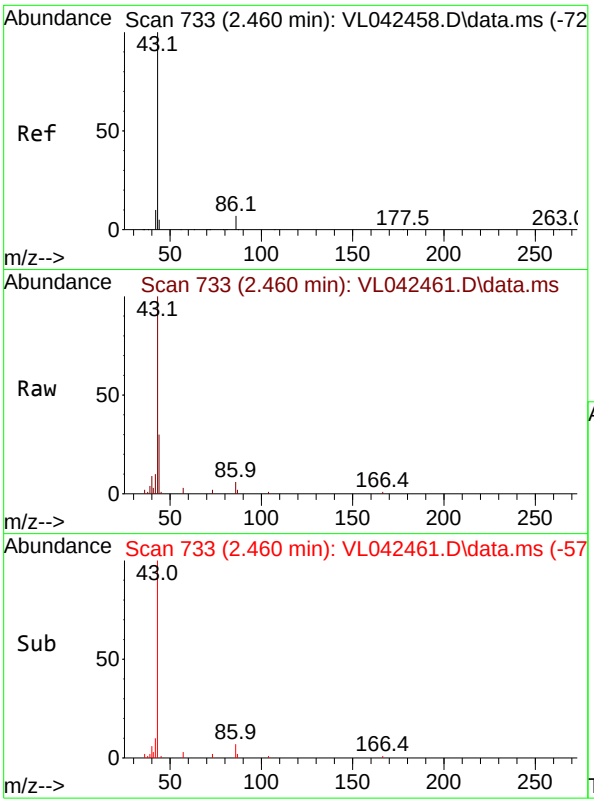


#22
trans-1,2-Dichloroethene
Concen: 0.557 ppbv
RT: 2.340 min Scan# 696
Delta R.T. 0.000 min
Lab File: VL042461.D
Acq: 01 May 2025 10:40

Tgt Ion: 96 Resp: 2554

Ion	Ratio	Lower	Upper
96	100		
61	170.3	141.8	212.6
98	59.5	45.0	67.6

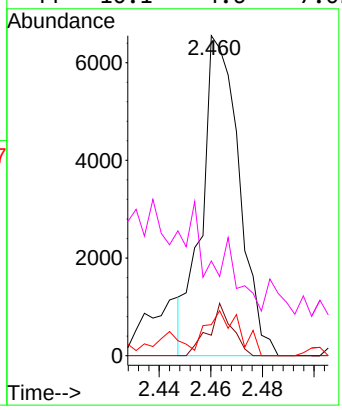




#23
Vinyl Acetate
Concen: 0.558 ppbv
RT: 2.460 min Scan# 7
Delta R.T. 0.000 min
Lab File: VL042461.D
Acq: 01 May 2025 10:40

Tgt Ion: 43 Resp: 654

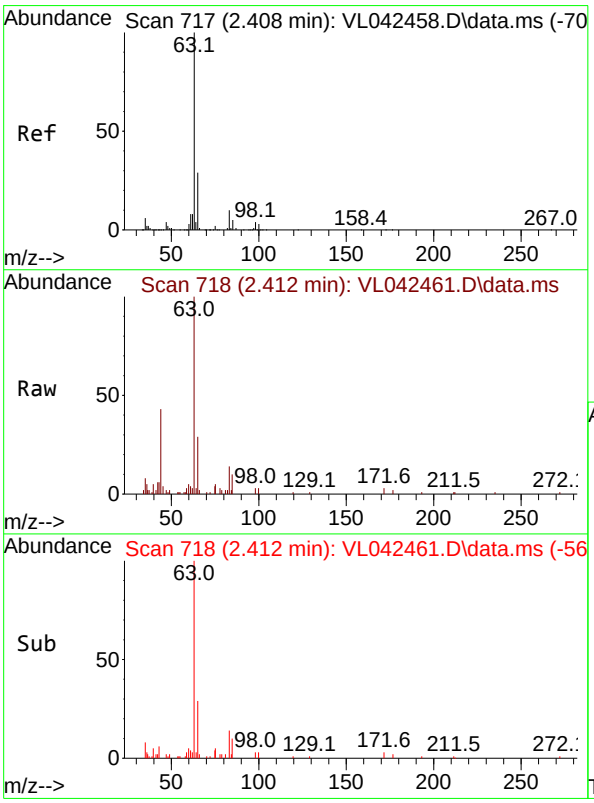
Ion	Ratio	Lower	Upper
43	100		
86	6.4	5.5	8.3
42	9.7	8.3	12.5
44	10.1	4.6	7.0#



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

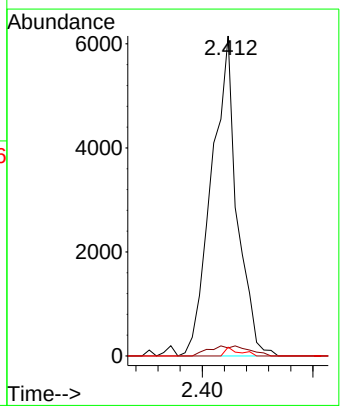
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

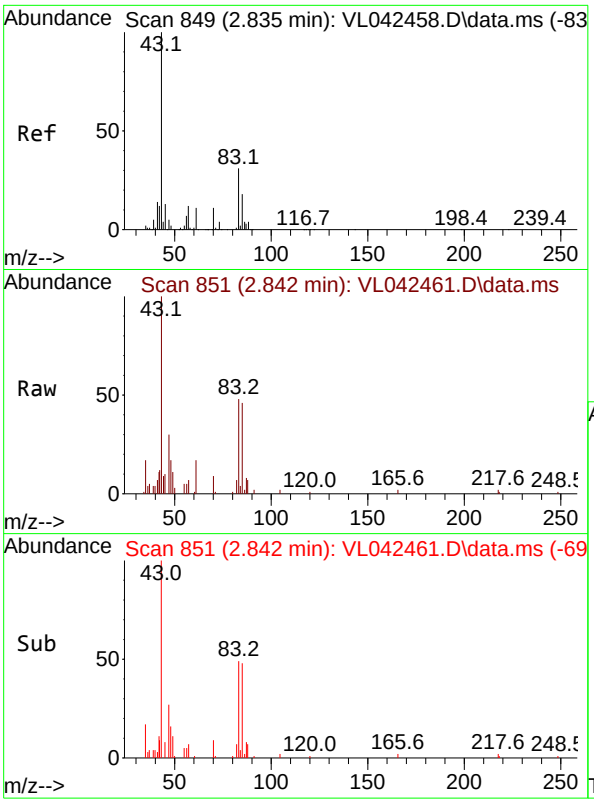


#24
1,1-Dichloroethane
Concen: 0.528 ppbv
RT: 2.412 min Scan# 718
Delta R.T. 0.003 min
Lab File: VL042461.D
Acq: 01 May 2025 10:40

Tgt Ion: 63 Resp: 4933

Ion	Ratio	Lower	Upper
63	100		
98	2.5	1.8	5.5
100	2.7	1.4	4.2

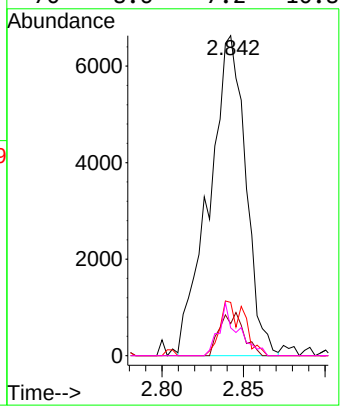




#25
Ethyl Acetate
Concen: 0.514 ppbv
RT: 2.842 min Scan# 8
Delta R.T. 0.007 min
Lab File: VL042461.D
Acq: 01 May 2025 10:40

Tgt Ion: 43 Resp: 1034

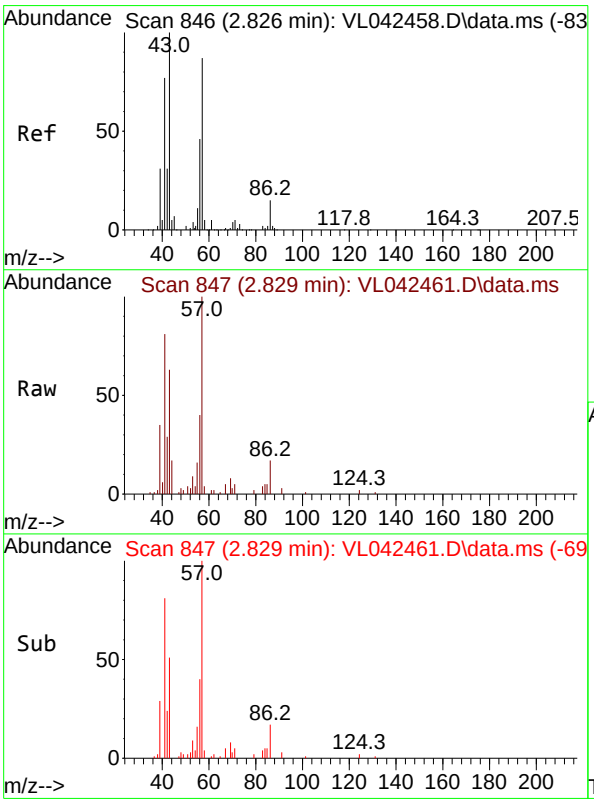
Ion	Ratio	Lower	Upper
43	100		
45	8.7	7.8	11.6
61	11.8	7.2	10.8
70	8.6	7.2	10.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

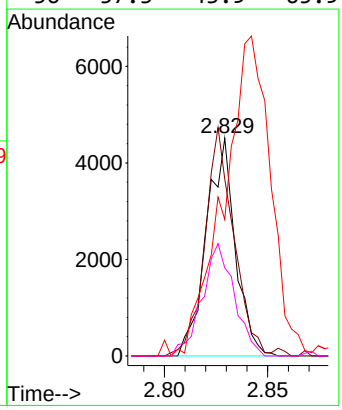
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

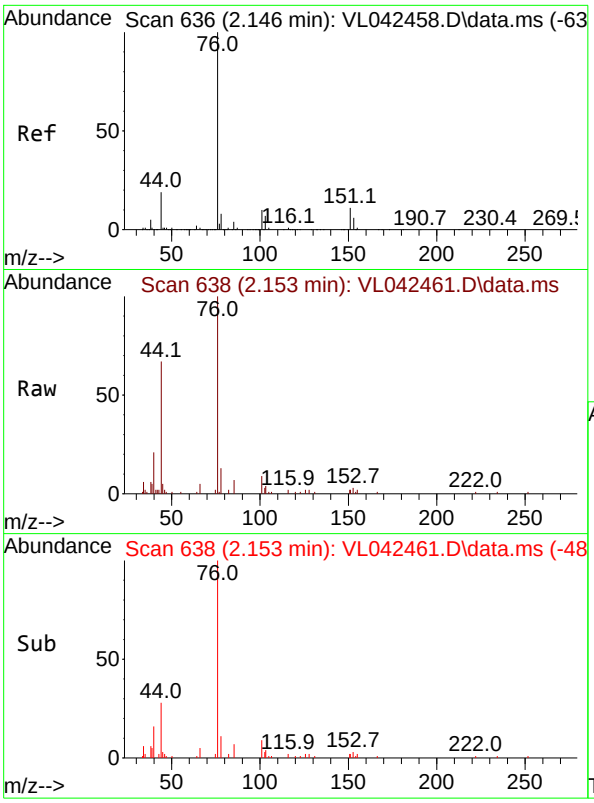


#26
Hexane
Concen: 0.502 ppbv
RT: 2.829 min Scan# 847
Delta R.T. 0.003 min
Lab File: VL042461.D
Acq: 01 May 2025 10:40

Tgt Ion: 57 Resp: 4403

Ion	Ratio	Lower	Upper
57	100		
41	105.8	77.8	116.8
43	240.9	187.0	280.6
56	57.3	43.9	65.9





#27
Carbon Disulfide
Concen: 0.508 ppbv
RT: 2.153 min Scan# 6
Delta R.T. 0.007 min
Lab File: VL042461.D
Acq: 01 May 2025 10:40

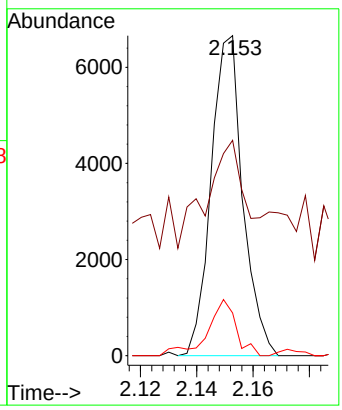
Tgt Ion: 76 Resp: 520

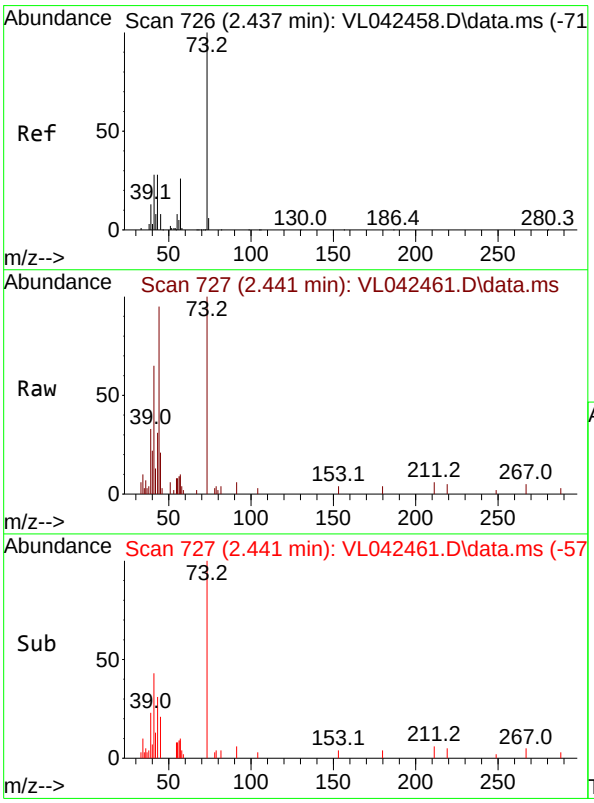
Ion	Ratio	Lower	Upper
76	100		
44	110.3	21.0	31.6#
78	18.6	8.6	13.0#

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

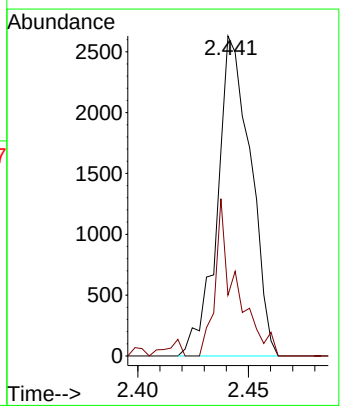


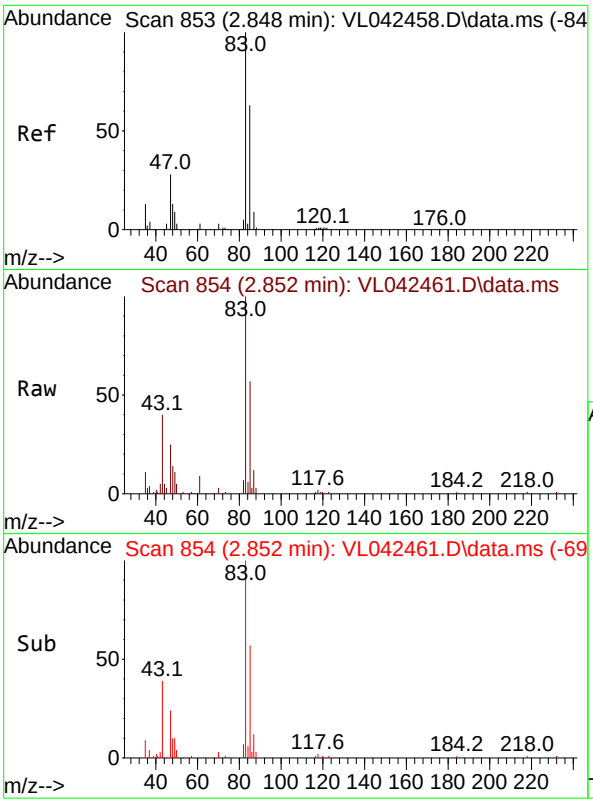


#28
Methyl tert-Butyl Ether
Concen: 0.524 ppbv
RT: 2.441 min Scan# 727
Delta R.T. 0.003 min
Lab File: VL042461.D
Acq: 01 May 2025 10:40

Tgt Ion: 73 Resp: 2762

Ion	Ratio	Lower	Upper
73	100		
57	34.1	19.9	29.9#

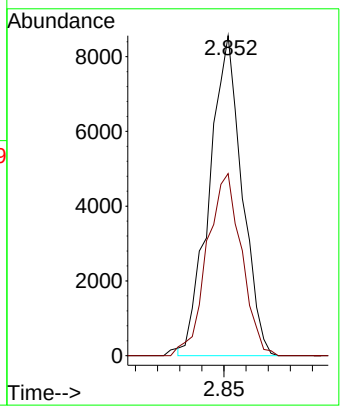




#29
Chloroform
Concen: 0.535 ppbv
RT: 2.852 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042461.D
Acq: 01 May 2025 10:40

Tgt Ion: 83 Resp: 879

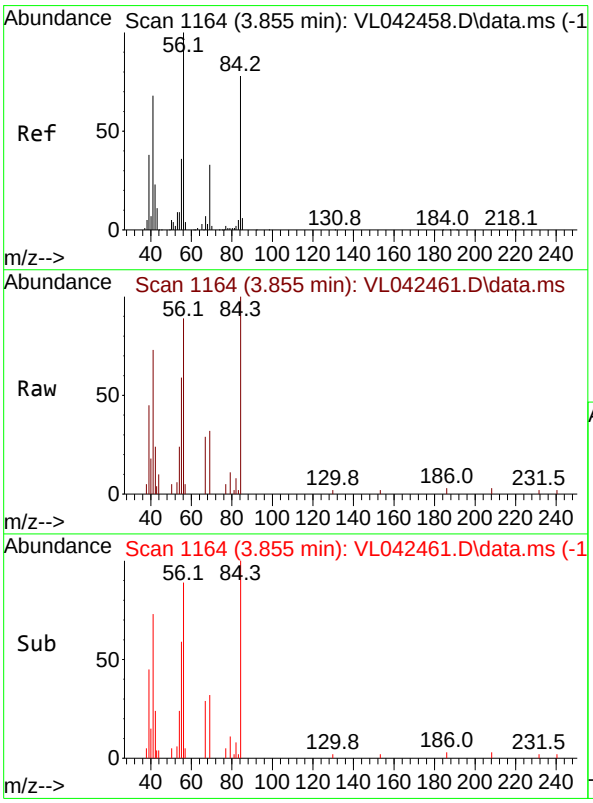
Ion	Ratio	Lower	Upper
83	100		
85	56.9	50.4	75.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

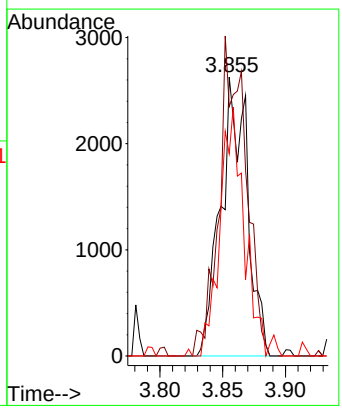
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

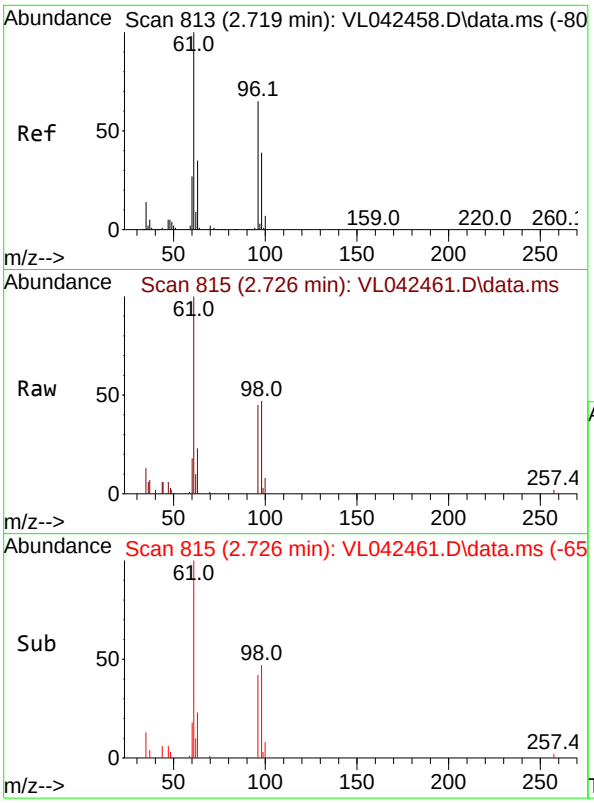


#30
Cyclohexane
Concen: 0.533 ppbv m
RT: 3.855 min Scan# 1164
Delta R.T. 0.000 min
Lab File: VL042461.D
Acq: 01 May 2025 10:40

Tgt Ion: 84 Resp: 3910

Ion	Ratio	Lower	Upper
84	100		
56	0.0	98.1	147.1#
41	0.0	65.8	98.8#

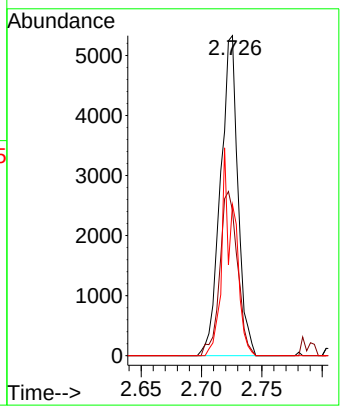




#31
cis-1,2-Dichloroethene
Concen: 0.522 ppbv m
RT: 2.726 min Scan# 8
Delta R.T. 0.007 min
Lab File: VL042461.D
Acq: 01 May 2025 10:40

Tgt Ion: 61 Resp: 534

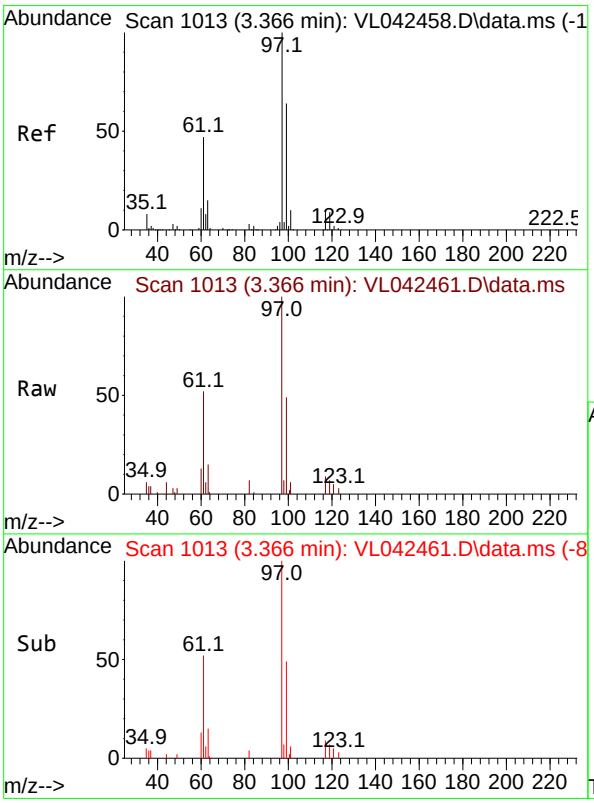
Ion	Ratio	Lower	Upper
61	100		
96	45.5	52.0	78.0#
98	47.2	31.0	46.6#



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

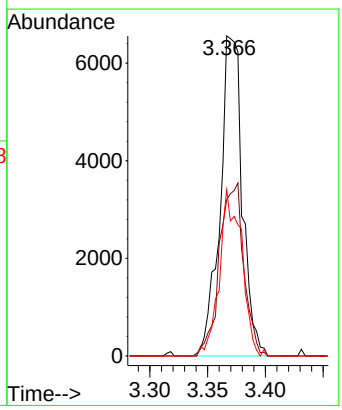
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

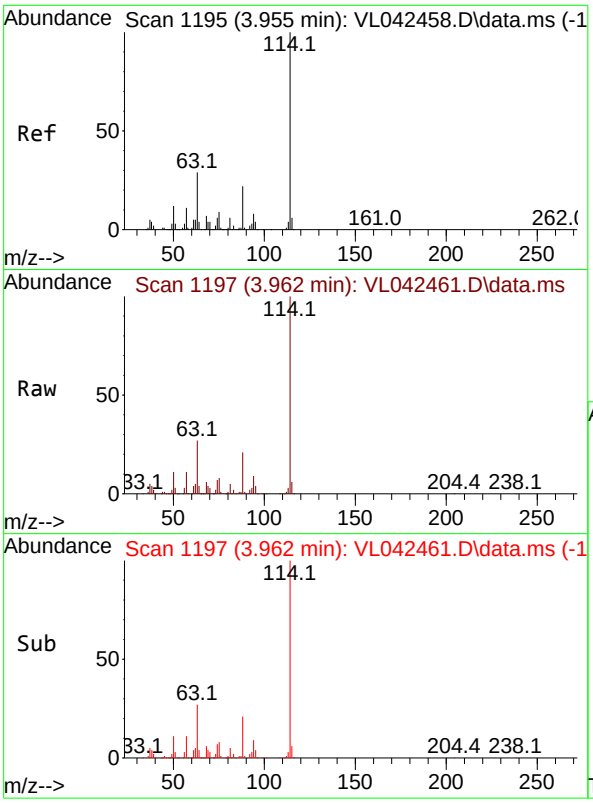


#32
1,1,1-Trichloroethane
Concen: 0.496 ppbv m
RT: 3.366 min Scan# 1013
Delta R.T. 0.000 min
Lab File: VL042461.D
Acq: 01 May 2025 10:40

Tgt Ion: 97 Resp: 8846

Ion	Ratio	Lower	Upper
97	100		
99	58.2	50.7	76.1
61	51.5	40.9	61.3

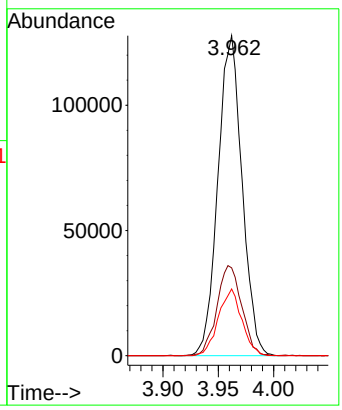




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.962 min Scan# 1
Delta R.T. 0.007 min
Lab File: VL042461.D
Acq: 01 May 2025 10:40

Tgt Ion:114 Resp: 19370

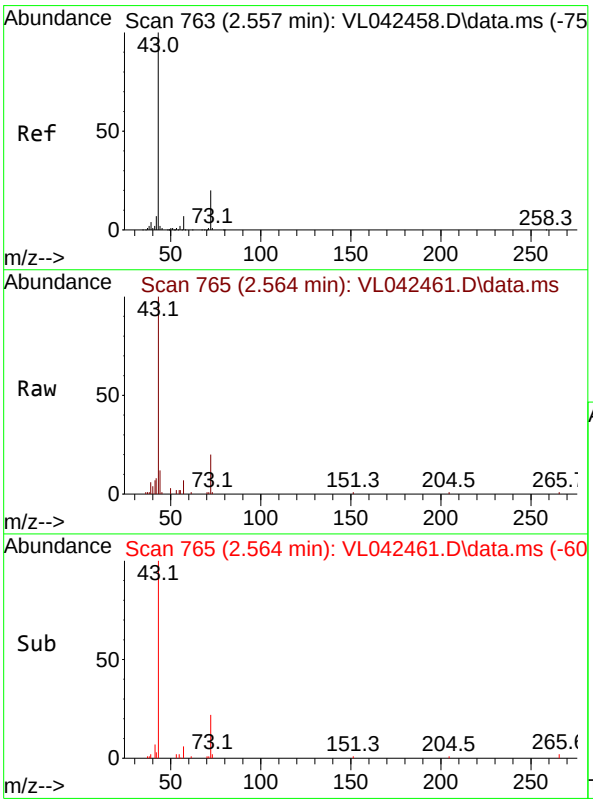
Ion	Ratio	Lower	Upper
114	100		
63	29.0	23.1	34.7
88	20.3	16.1	24.1



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations APPROVED

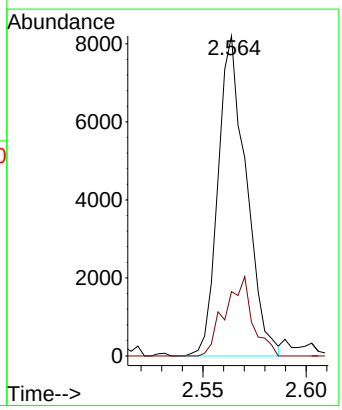
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

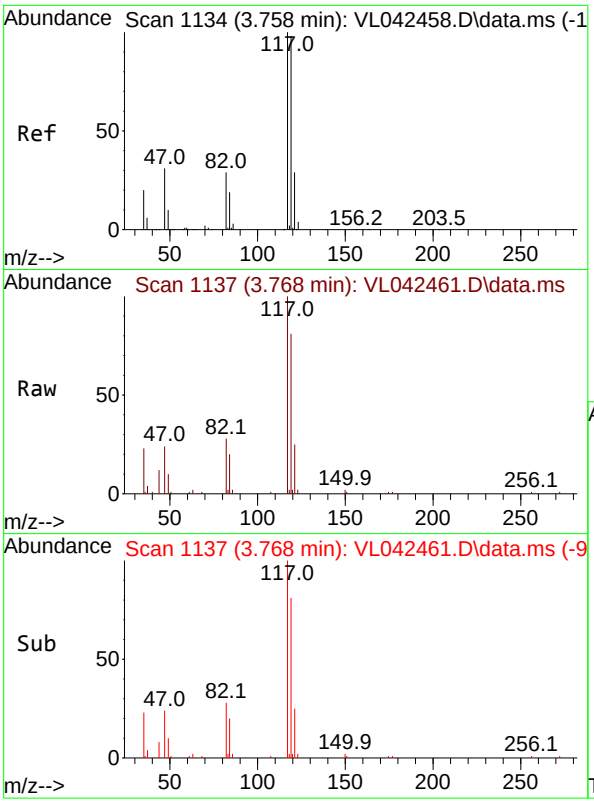


#34
2-Butanone
Concen: 0.554 ppbv
RT: 2.564 min Scan# 765
Delta R.T. 0.007 min
Lab File: VL042461.D
Acq: 01 May 2025 10:40

Tgt Ion: 43 Resp: 7766

Ion	Ratio	Lower	Upper
43	100		
72	24.4	16.7	25.1

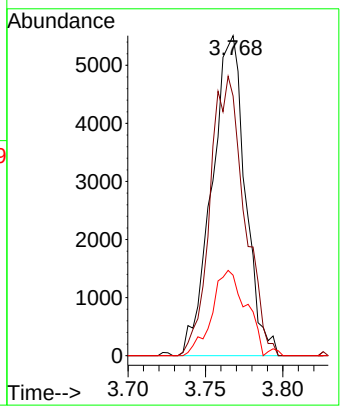




#35
Carbon Tetrachloride
Concen: 0.492 ppbv
RT: 3.768 min Scan# 1
Delta R.T. 0.010 min
Lab File: VL042461.D
Acq: 01 May 2025 10:40

Tgt Ion:117 Resp: 828

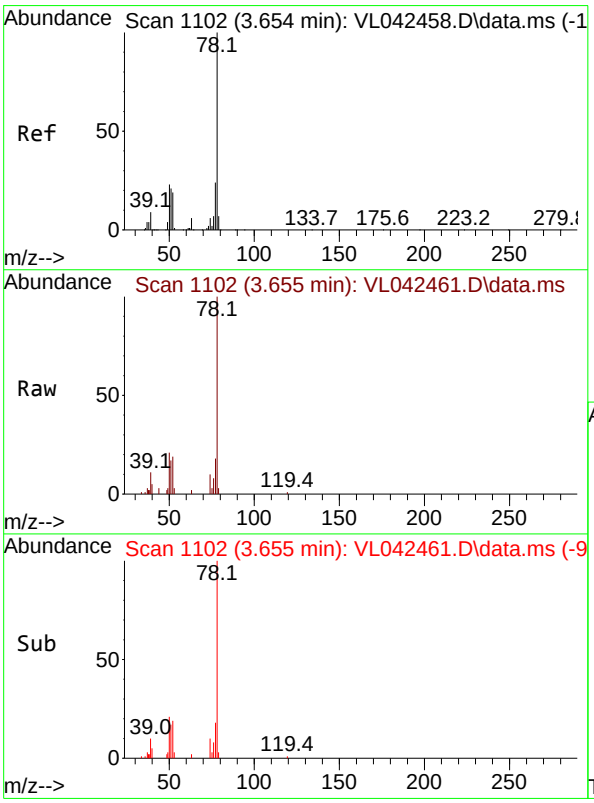
Ion	Ratio	Lower	Upper
117	100		
119	81.2	78.1	117.1
121	25.1	23.0	34.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

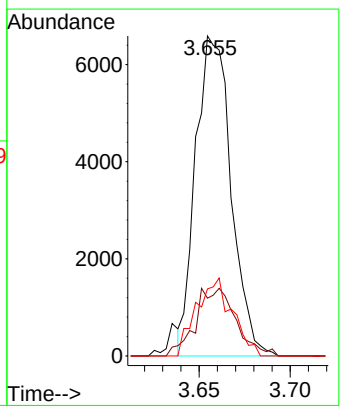
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

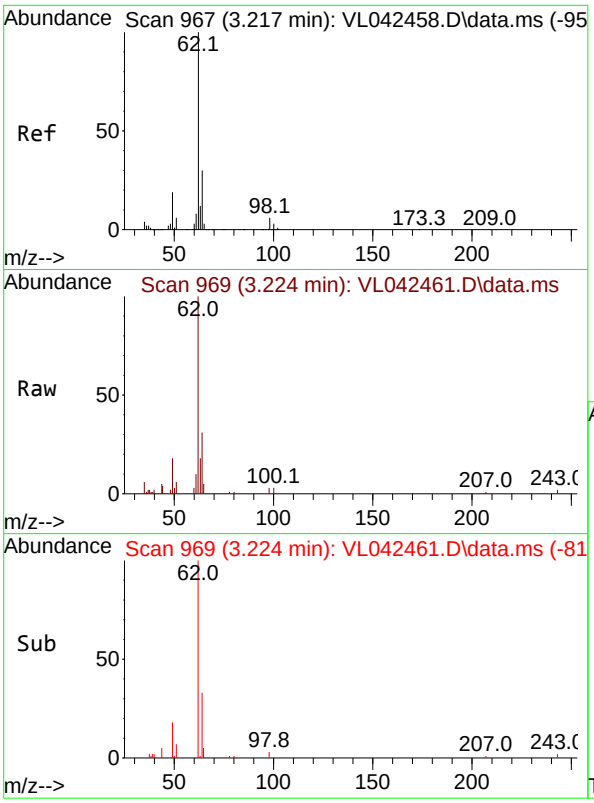


#36
Benzene
Concen: 0.490 ppbv
RT: 3.655 min Scan# 1102
Delta R.T. 0.000 min
Lab File: VL042461.D
Acq: 01 May 2025 10:40

Tgt Ion: 78 Resp: 8951

Ion	Ratio	Lower	Upper
78	100		
77	18.0	18.9	28.3#
50	20.9	18.4	27.6

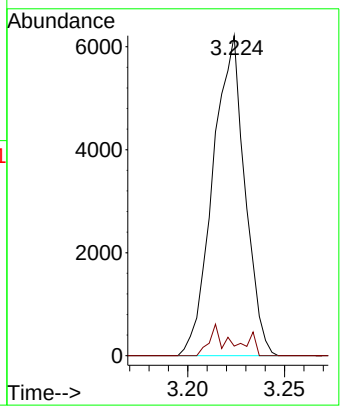




#37
1,2-Dichloroethane
Concen: 0.507 ppbv
RT: 3.224 min Scan# 9
Delta R.T. 0.007 min
Lab File: VL042461.D
Acq: 01 May 2025 10:40

Tgt Ion: 62 Resp: 714

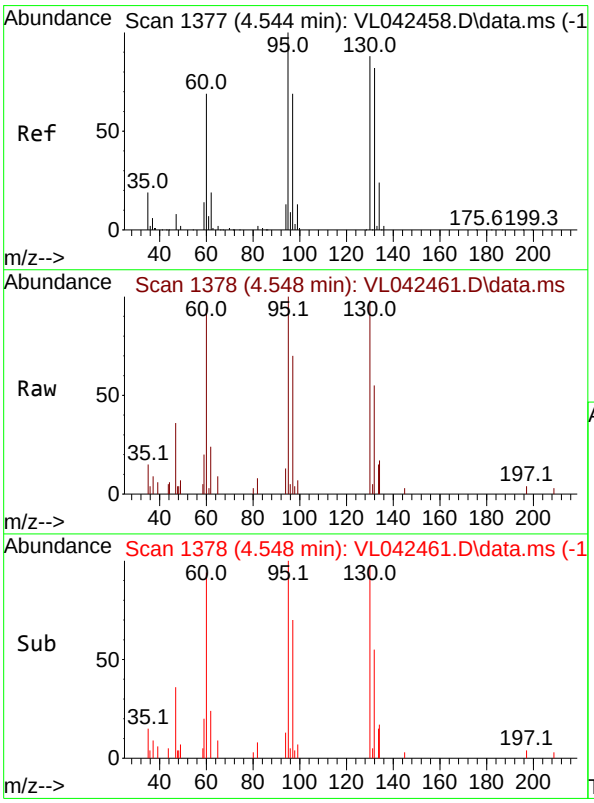
Ion	Ratio	Lower	Upper
62	100		
98	7.0	4.3	6.5#



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

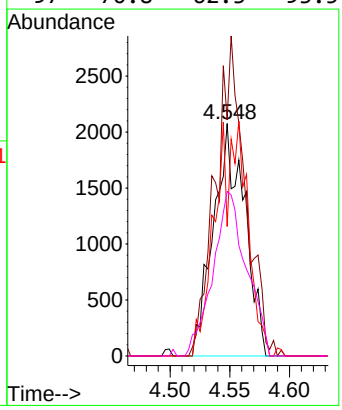
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

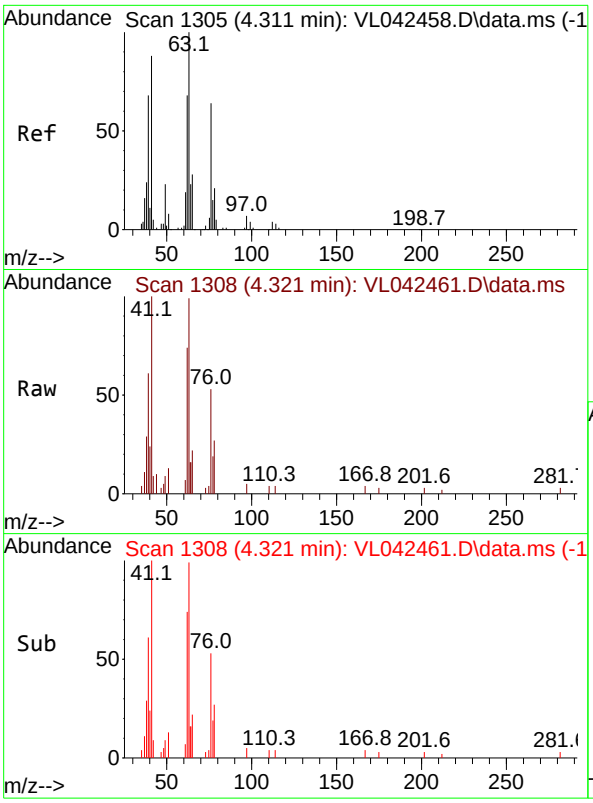


#38
Trichloroethene
Concen: 0.541 ppbv m
RT: 4.548 min Scan# 1378
Delta R.T. 0.003 min
Lab File: VL042461.D
Acq: 01 May 2025 10:40

Tgt Ion:130 Resp: 3769

Ion	Ratio	Lower	Upper
130	100		
95	101.5	91.0	136.4
132	55.7	74.2	111.4#
97	70.8	62.3	93.5

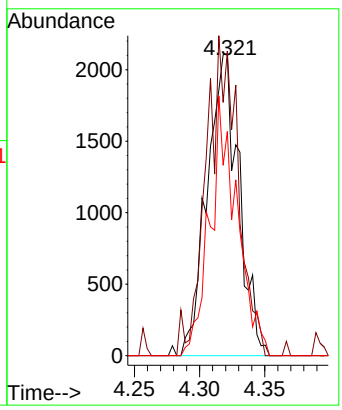




#39
1,2-Dichloropropane
Concen: 0.520 ppbv m
RT: 4.321 min Scan# 1
Delta R.T. 0.010 min
Lab File: VL042461.D
Acq: 01 May 2025 10:40

Tgt Ion: 63 Resp: 356

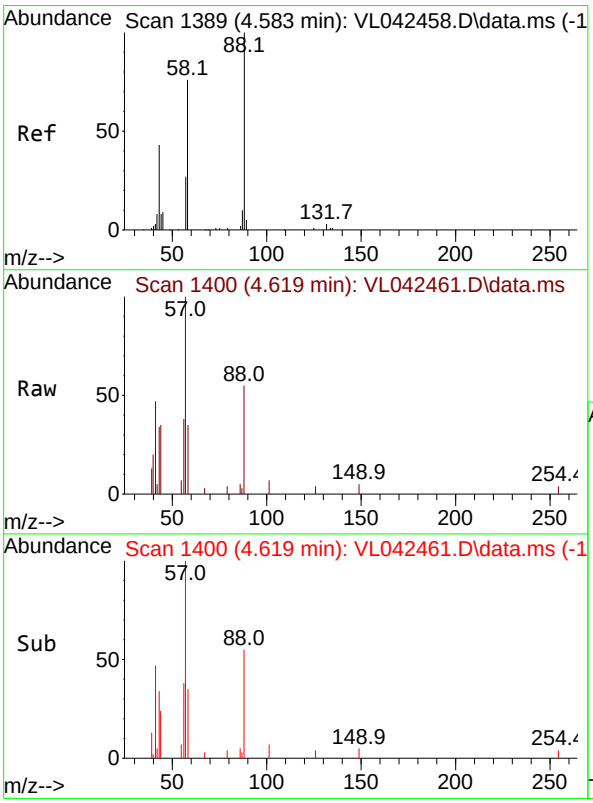
Ion	Ratio	Lower	Upper
63	100		
41	100.8	69.8	104.6
62	74.2	54.3	81.5



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

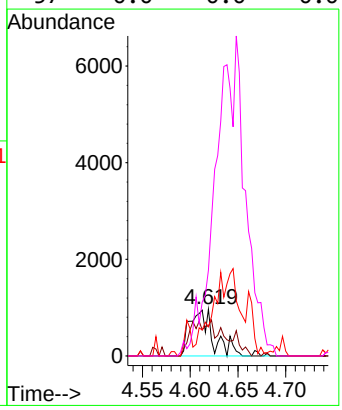
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

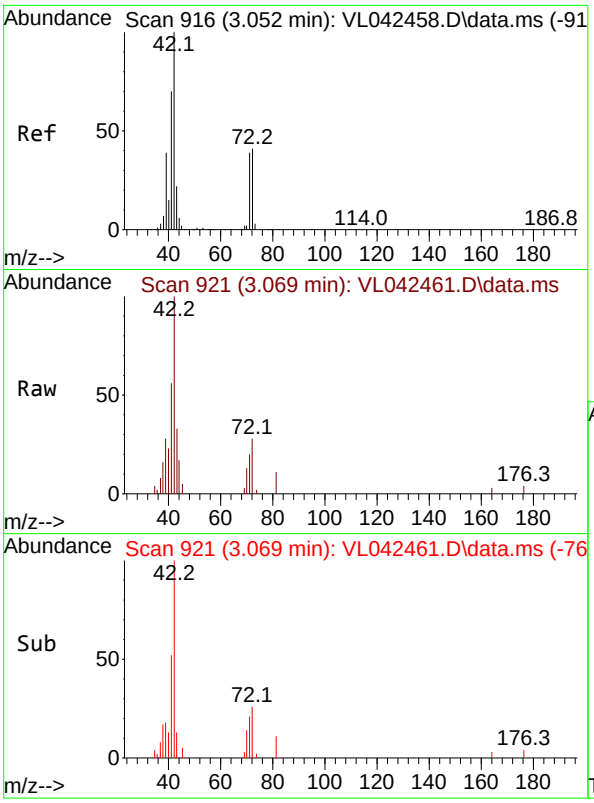


#40
1,4-Dioxane
Concen: 0.534 ppbv m
RT: 4.619 min Scan# 1400
Delta R.T. 0.036 min
Lab File: VL042461.D
Acq: 01 May 2025 10:40

Tgt Ion: 88 Resp: 1701

Ion	Ratio	Lower	Upper
88	100		
58	4.8	0.0	0.0#
43	0.0	0.0	0.0
57	0.0	0.0	0.0

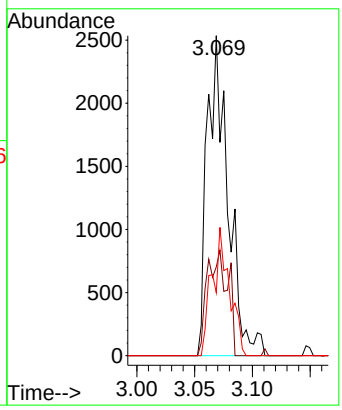




#41
Tetrahydrofuran
Concen: 0.480 ppbv m
RT: 3.069 min Scan# 9
Delta R.T. 0.016 min
Lab File: VL042461.D
Acq: 01 May 2025 10:40

Tgt Ion: 42 Resp: 318

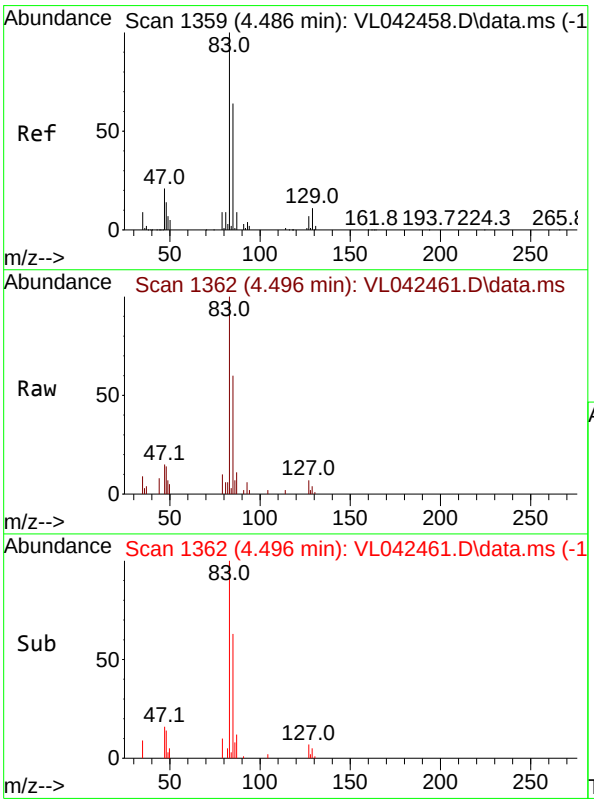
Ion	Ratio	Lower	Upper
42	100		
72	0.0	33.5	50.3#
71	0.0	32.6	49.0#



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

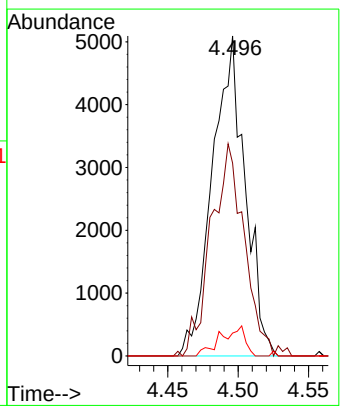
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

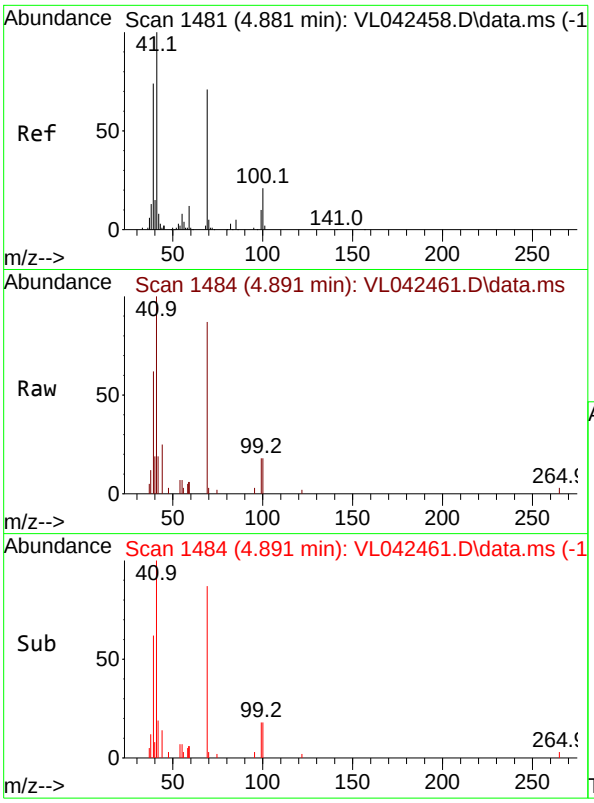


#42
Bromodichloromethane
Concen: 0.477 ppbv
RT: 4.496 min Scan# 1362
Delta R.T. 0.010 min
Lab File: VL042461.D
Acq: 01 May 2025 10:40

Tgt Ion: 83 Resp: 8212

Ion	Ratio	Lower	Upper
83	100		
85	58.8	51.5	77.3
127	7.1	5.4	8.2

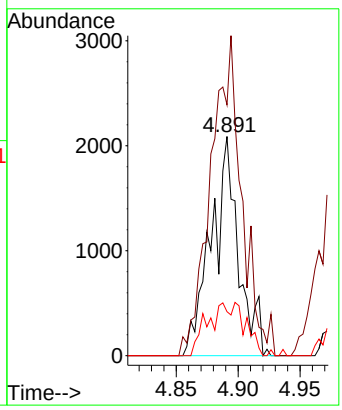




#43
Methyl Methacrylate
Concen: 0.467 ppbv m
RT: 4.891 min Scan# 14
Delta R.T. 0.010 min
Lab File: VL042461.D
Acq: 01 May 2025 10:40

Tgt Ion: 69 Resp: 317

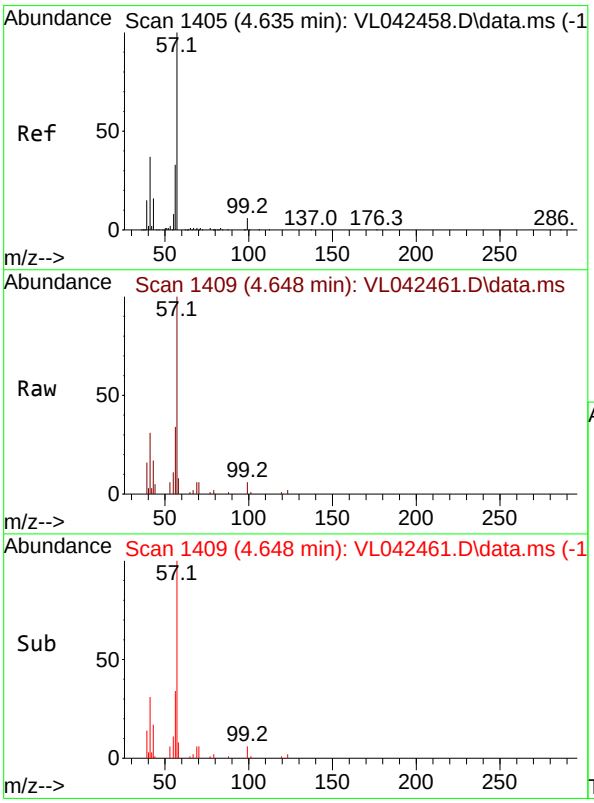
Ion	Ratio	Lower	Upper
69	100		
41	166.6	120.8	181.2
100	33.5	26.7	40.1



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

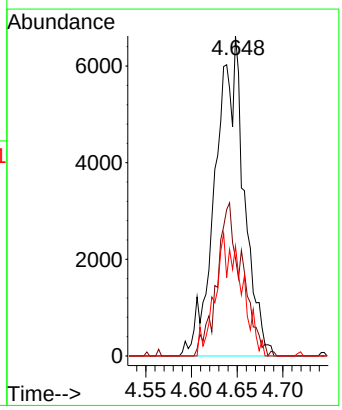
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

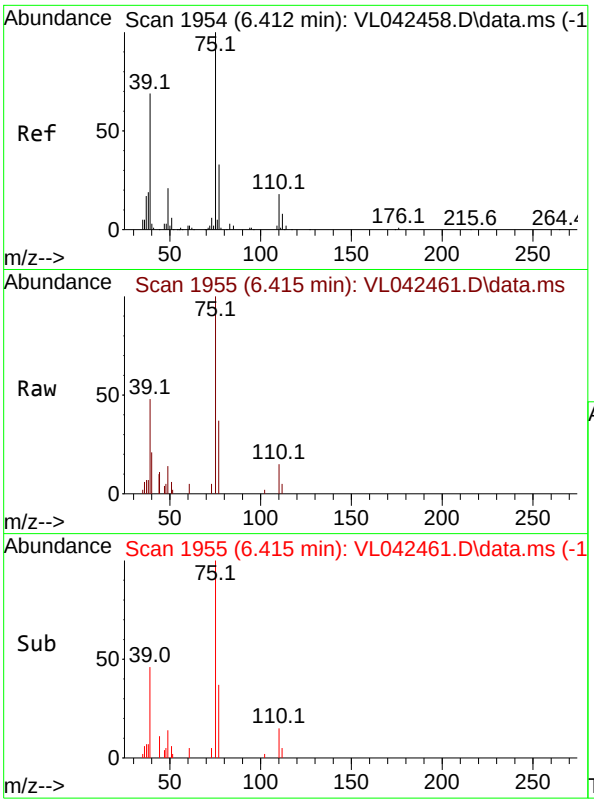


#44
2,2,4-Trimethylpentane
Concen: 0.489 ppbv m
RT: 4.648 min Scan# 1409
Delta R.T. 0.013 min
Lab File: VL042461.D
Acq: 01 May 2025 10:40

Tgt Ion: 57 Resp: 14435

Ion	Ratio	Lower	Upper
57	100		
41	42.3	30.6	45.8
56	34.9	25.0	37.6

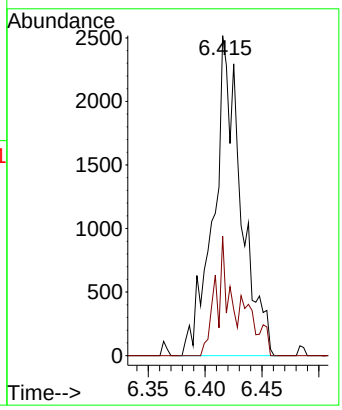




#45
t-1,3-Dichloropropene
Concen: 0.473 ppbv m
RT: 6.415 min Scan# 1
Delta R.T. 0.003 min
Lab File: VL042461.D
Acq: 01 May 2025 10:40

Tgt Ion: 75 Resp: 423

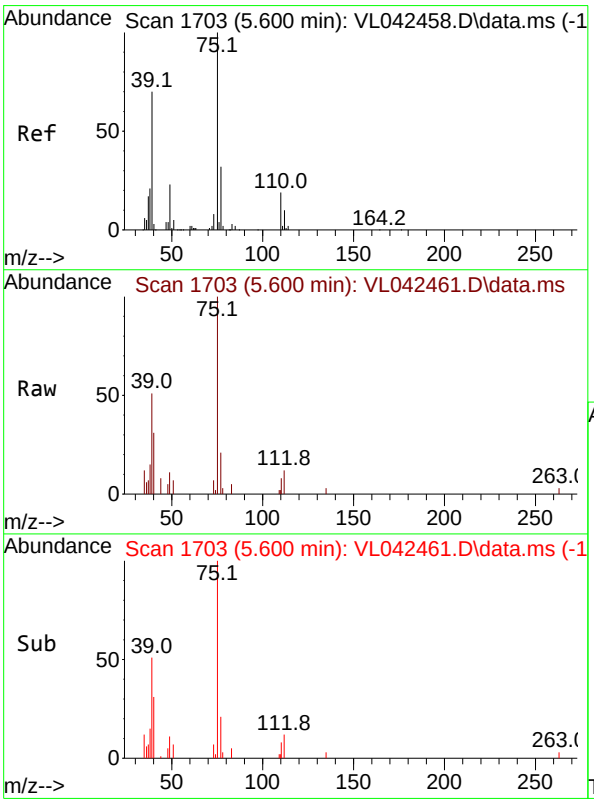
Ion	Ratio	Lower	Upper
75	100		
77	37.3	26.3	39.5



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

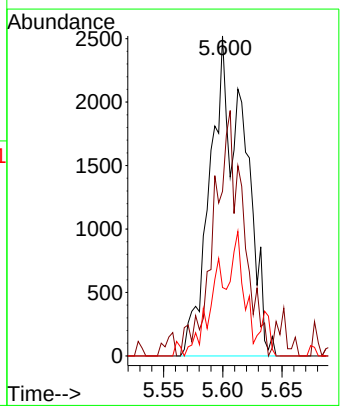
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

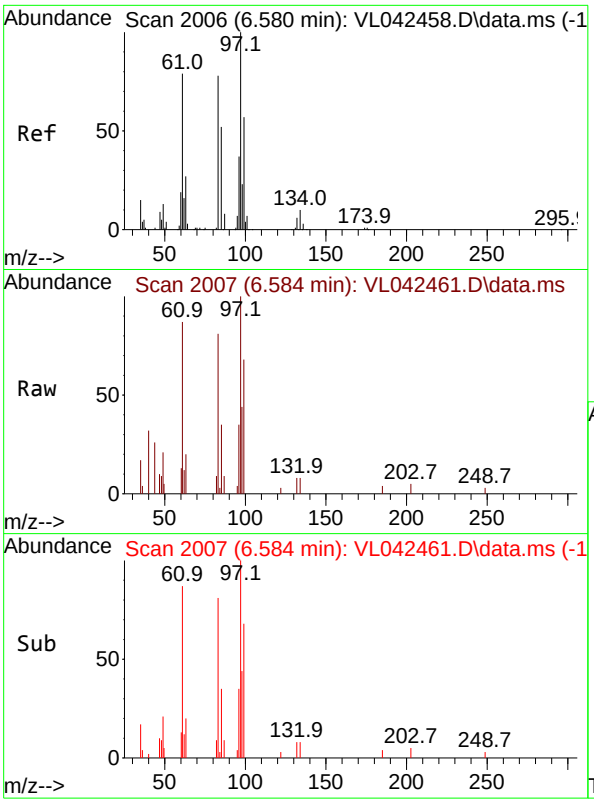


#46
cis-1,3-Dichloropropene
Concen: 0.479 ppbv m
RT: 5.600 min Scan# 1703
Delta R.T. 0.000 min
Lab File: VL042461.D
Acq: 01 May 2025 10:40

Tgt Ion: 75 Resp: 5091

Ion	Ratio	Lower	Upper
75	100		
39	51.4	55.7	83.5#
77	21.4	25.8	38.8#

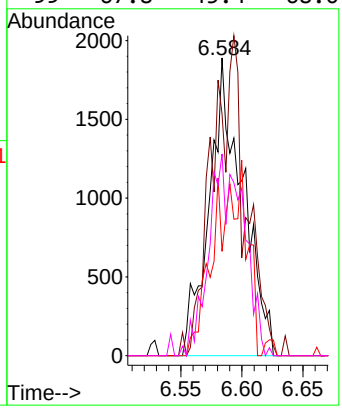




#47
1,1,2-Trichloroethane
Concen: 0.480 ppbv m
RT: 6.584 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042461.D
Acq: 01 May 2025 10:40

Tgt Ion: 97 Resp: 360

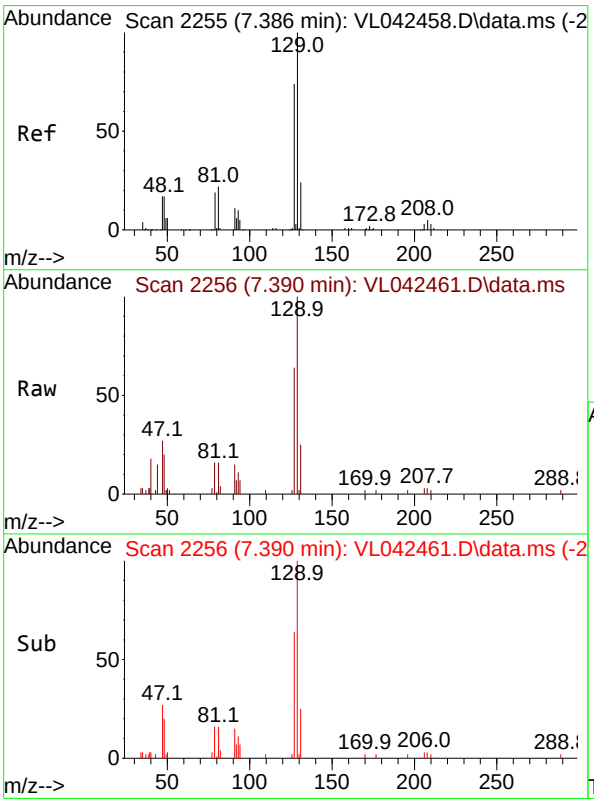
Ion	Ratio	Lower	Upper
97	100		
83	81.1	62.2	93.2
85	35.0	41.5	62.3#
99	67.8	45.4	68.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

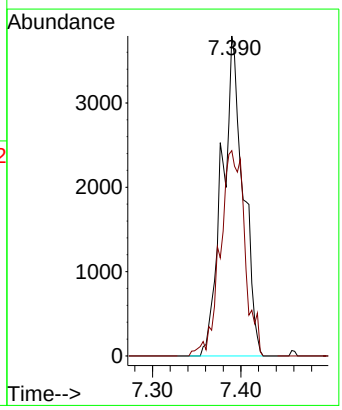
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

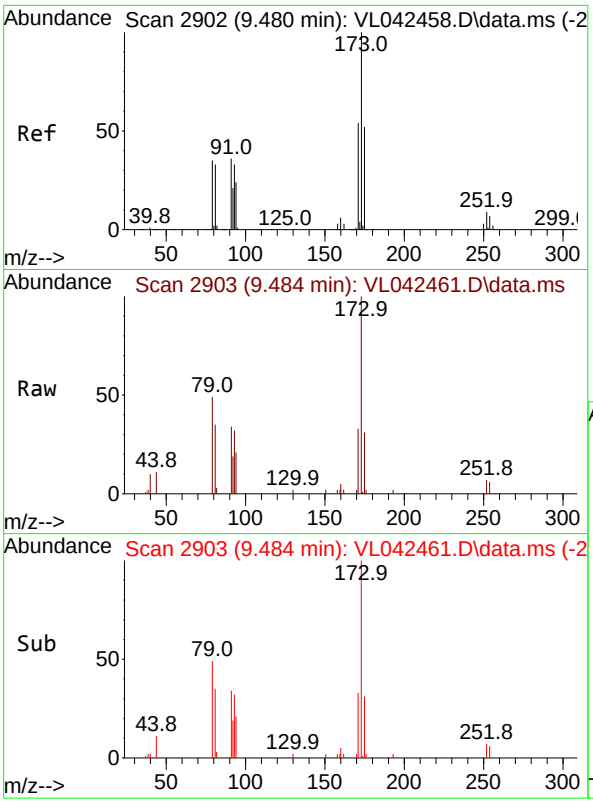


#48
Dibromochloromethane
Concen: 0.498 ppbv m
RT: 7.390 min Scan# 2256
Delta R.T. 0.003 min
Lab File: VL042461.D
Acq: 01 May 2025 10:40

Tgt Ion:129 Resp: 6304

Ion	Ratio	Lower	Upper
129	100		
127	74.6	39.5	118.5

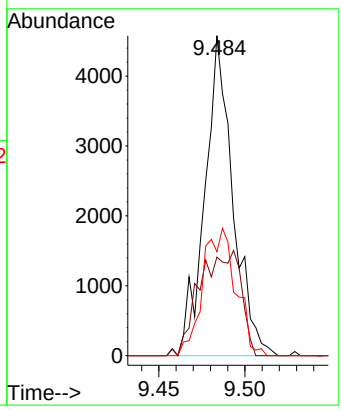




#49
Bromoform
Concen: 0.492 ppbv
RT: 9.484 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042461.D
Acq: 01 May 2025 10:40

Tgt Ion:173 Resp: 522

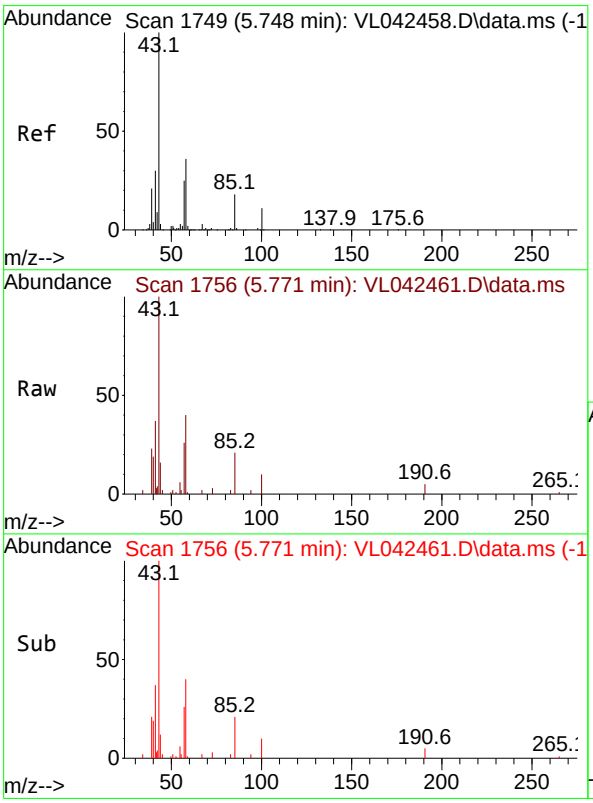
Ion	Ratio	Lower	Upper
173	100		
175	48.2	38.9	58.3
171	46.7	40.6	60.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

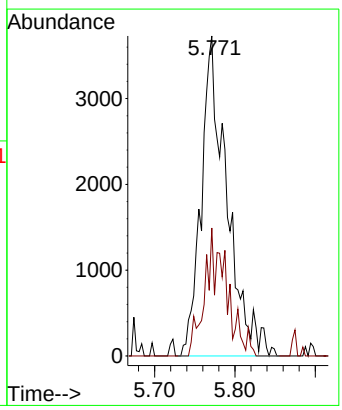
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

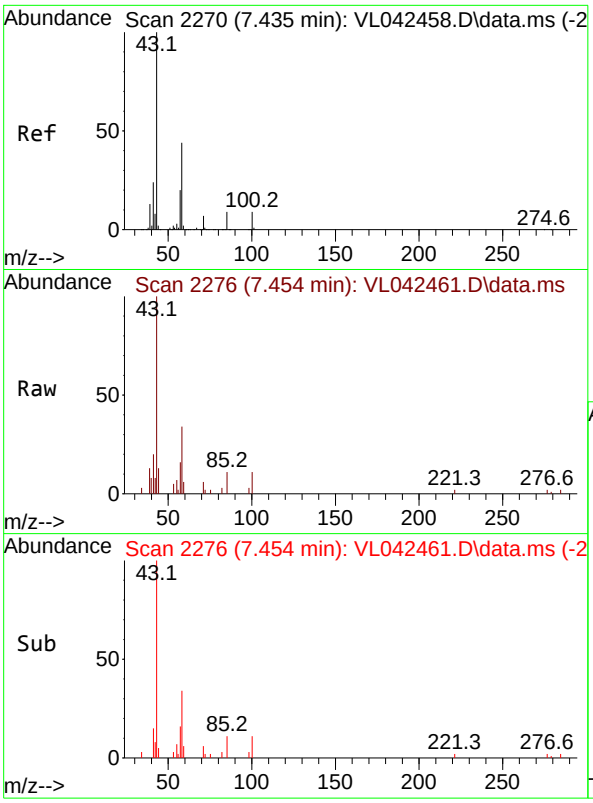


#50
4-Methyl-2-Pentanone
Concen: 0.466 ppbv m
RT: 5.771 min Scan# 1756
Delta R.T. 0.023 min
Lab File: VL042461.D
Acq: 01 May 2025 10:40

Tgt Ion: 43 Resp: 8248

Ion	Ratio	Lower	Upper
43	100		
58	0.0	29.5	44.3#

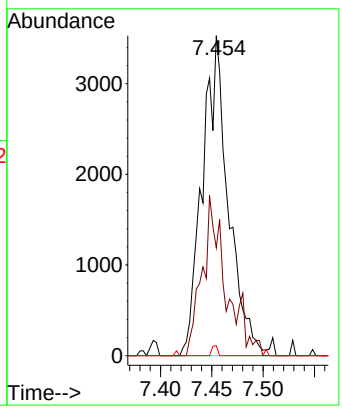




#51
2-Hexanone
Concen: 0.443 ppbv m
RT: 7.454 min Scan# 2
Delta R.T. 0.020 min
Lab File: VL042461.D
Acq: 01 May 2025 10:40

Tgt Ion: 43 Resp: 628

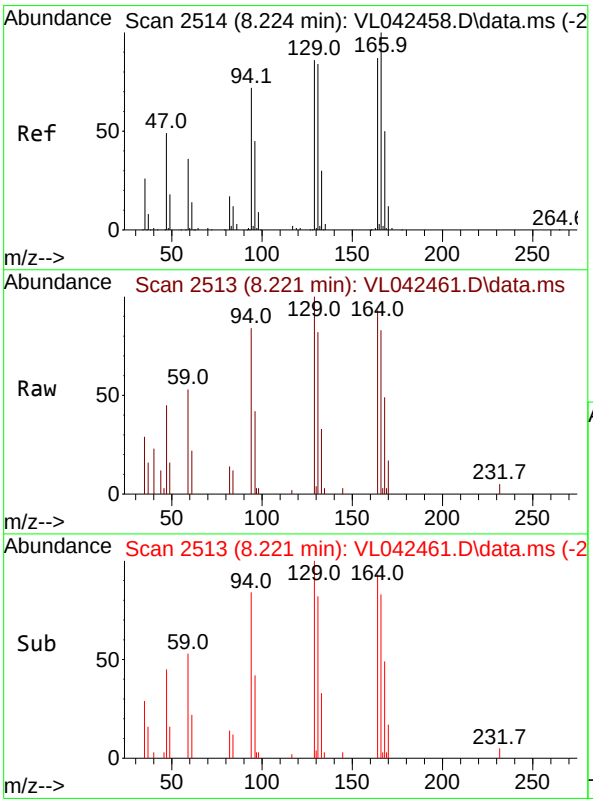
Ion	Ratio	Lower	Upper
43	100		
58	45.2	37.2	55.8
98	0.0	0.4	0.6#



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

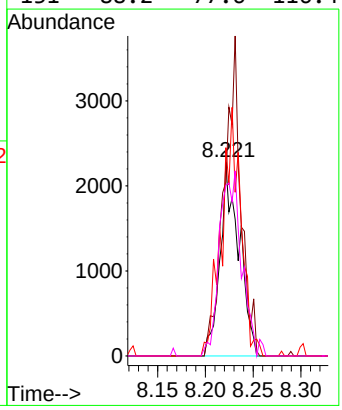
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

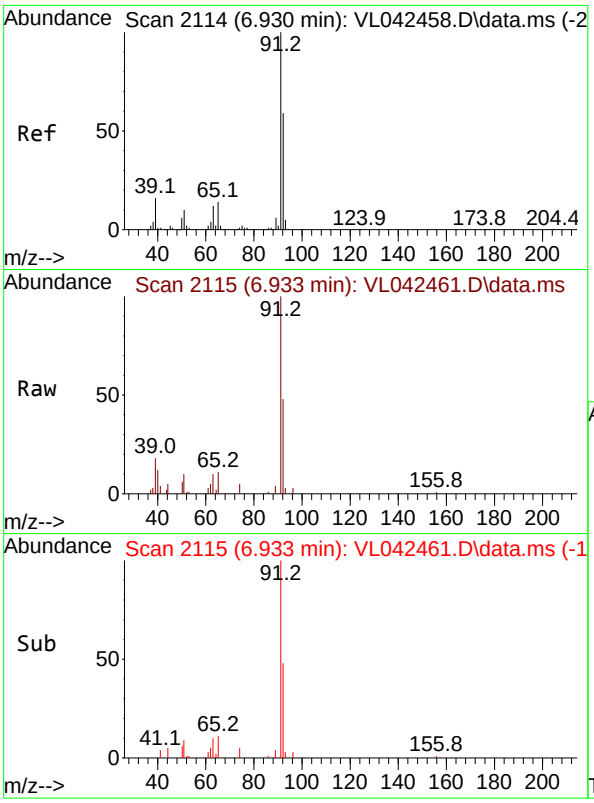


#52
Tetrachloroethene
Concen: 0.453 ppbv m
RT: 8.221 min Scan# 2513
Delta R.T. -0.003 min
Lab File: VL042461.D
Acq: 01 May 2025 10:40

Tgt Ion:164 Resp: 3151

Ion	Ratio	Lower	Upper
164	100		
166	89.8	91.6	137.4#
129	107.5	79.0	118.4
131	88.2	77.6	116.4

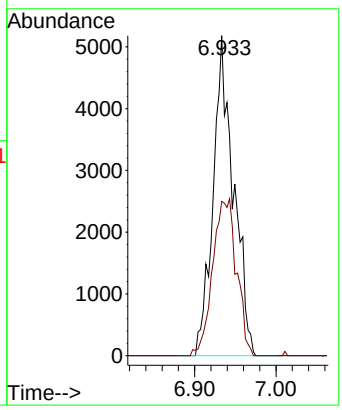




#53
Toluene
Concen: 0.468 ppbv m
RT: 6.933 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL042461.D
Acq: 01 May 2025 10:40

Tgt Ion: 91 Resp: 905

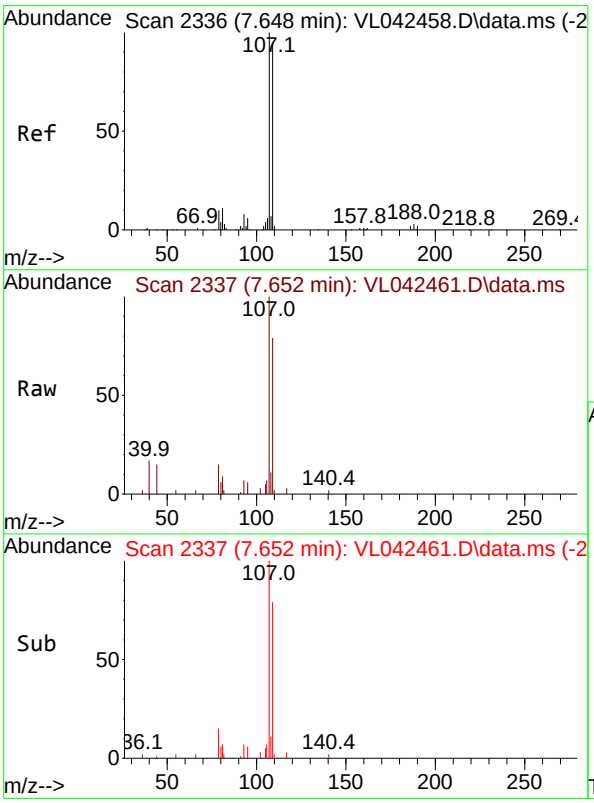
Ion	Ratio	Lower	Upper
91	100		
92	57.0	47.9	71.9



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

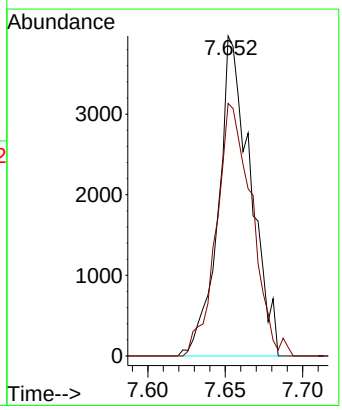
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

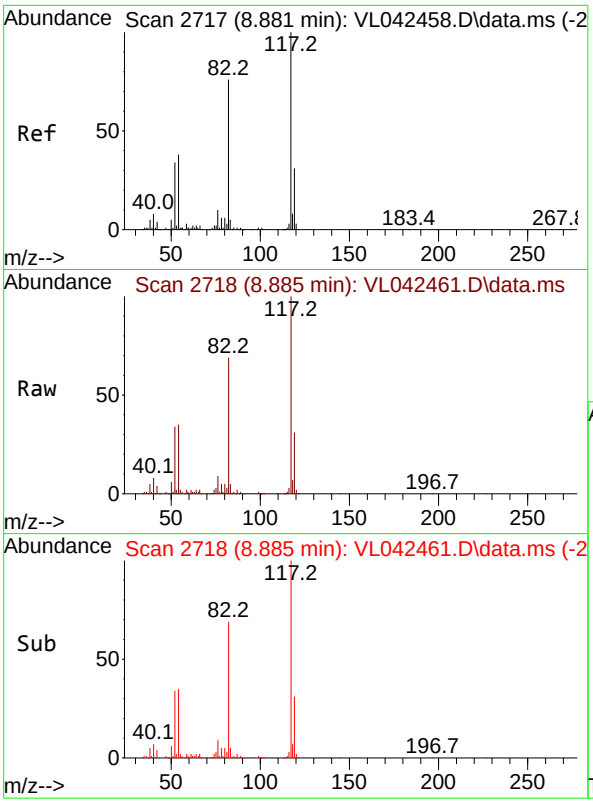


#54
1,2-Dibromoethane
Concen: 0.494 ppbv
RT: 7.652 min Scan# 2337
Delta R.T. 0.003 min
Lab File: VL042461.D
Acq: 01 May 2025 10:40

Tgt Ion:107 Resp: 5705

Ion	Ratio	Lower	Upper
107	100		
109	78.9	76.0	114.0

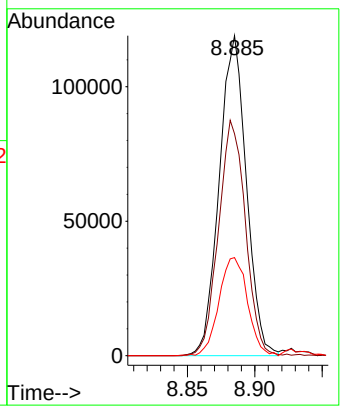




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.885 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042461.D
Acq: 01 May 2025 10:40

Tgt Ion:117 Resp: 16662

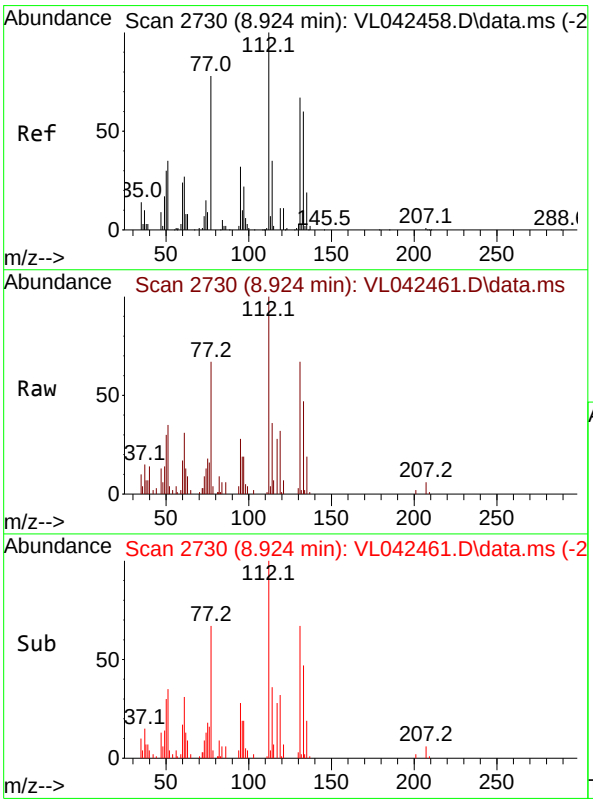
Ion	Ratio	Lower	Upper
117	100		
82	73.2	63.5	95.3
119	32.3	25.8	38.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

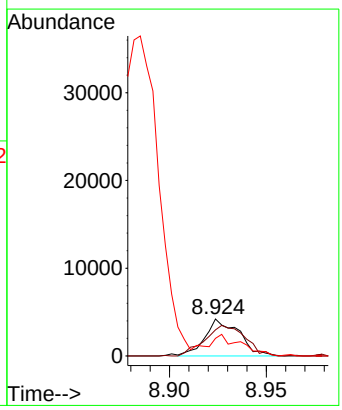
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

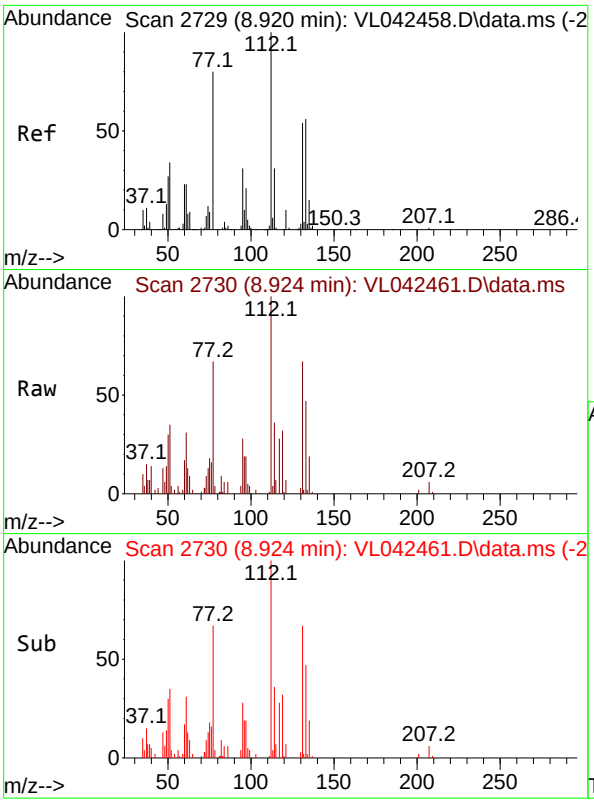


#56
1,1,1,2-Tetrachloroethane
Concen: 0.524 ppbv
RT: 8.924 min Scan# 2730
Delta R.T. 0.000 min
Lab File: VL042461.D
Acq: 01 May 2025 10:40

Tgt Ion:131 Resp: 5152

Ion	Ratio	Lower	Upper
131	100		
133	98.8	76.0	114.0
119	45.8	46.1	69.1#

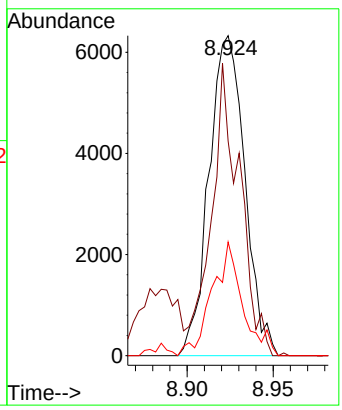




#57
Chlorobenzene
Concen: 0.548 ppbv
RT: 8.924 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042461.D
Acq: 01 May 2025 10:40

Tgt Ion:112 Resp: 917

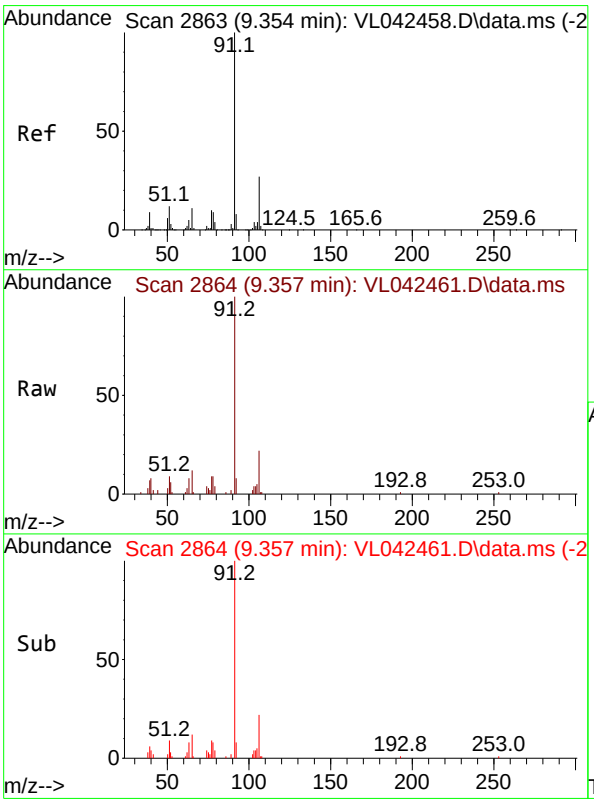
Ion	Ratio	Lower	Upper
112	100		
77	67.1	65.0	97.4
114	35.5	27.5	33.7



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

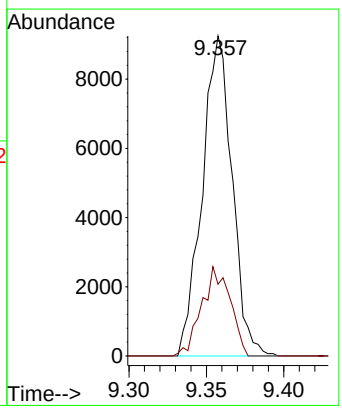
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

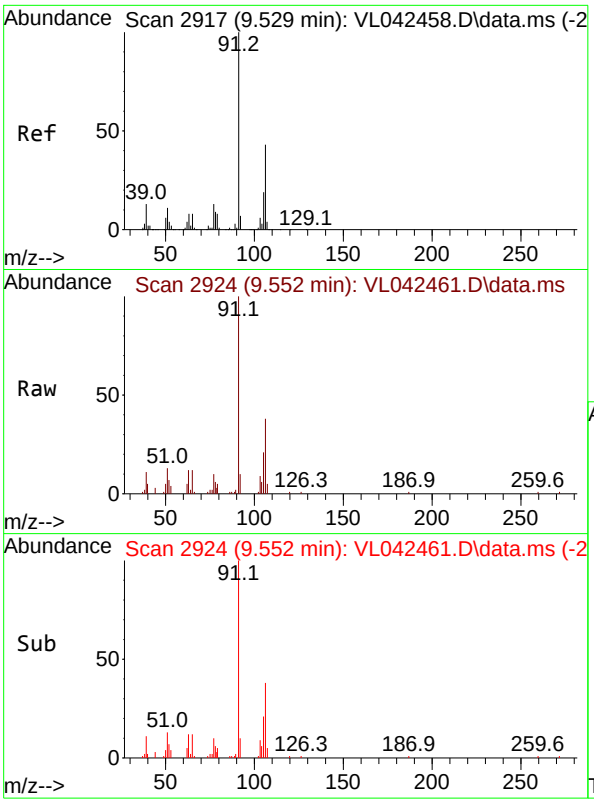


#58
Ethyl Benzene
Concen: 0.446 ppbv
RT: 9.357 min Scan# 2864
Delta R.T. 0.003 min
Lab File: VL042461.D
Acq: 01 May 2025 10:40

Tgt Ion: 91 Resp: 12427

Ion	Ratio	Lower	Upper
91	100		
106	22.4	21.9	32.9

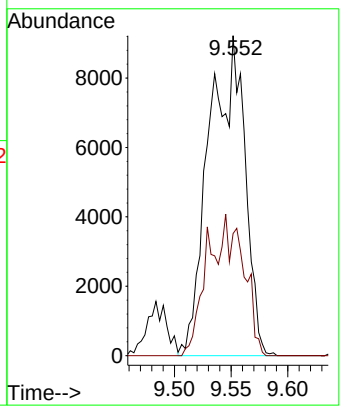




#59
m/p-Xylene
Concen: 0.865 ppbv m
RT: 9.552 min Scan# 2
Delta R.T. 0.023 min
Lab File: VL042461.D
Acq: 01 May 2025 10:40

Tgt Ion: 91 Resp: 2019

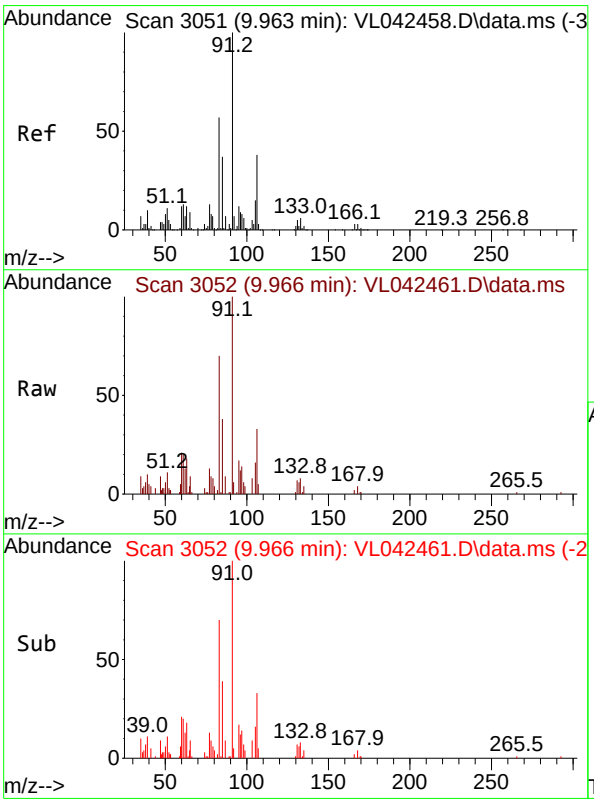
Ion	Ratio	Lower	Upper
91	100		
106	0.0	34.2	51.2#



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

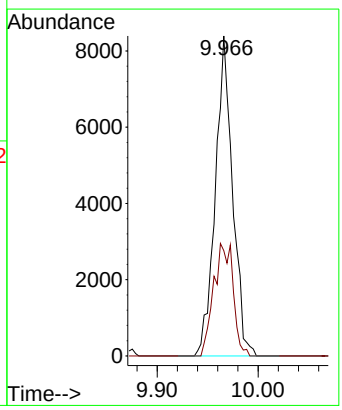
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

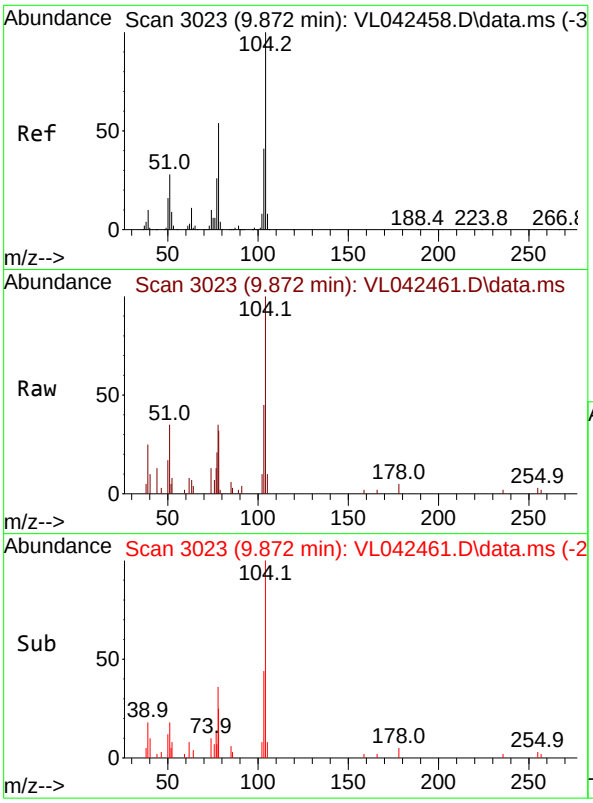


#60
o-Xylene
Concen: 0.427 ppbv m
RT: 9.966 min Scan# 3052
Delta R.T. 0.003 min
Lab File: VL042461.D
Acq: 01 May 2025 10:40

Tgt Ion: 91 Resp: 9976

Ion	Ratio	Lower	Upper
91	100		
106	39.6	20.1	60.2

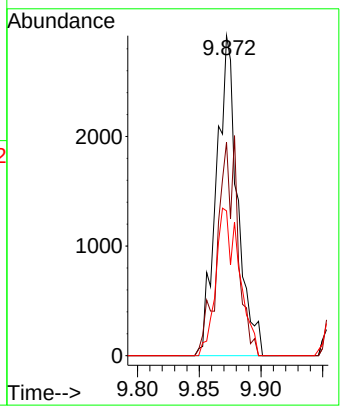




#61
Styrene
Concen: 0.396 ppbv m
RT: 9.872 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042461.D
Acq: 01 May 2025 10:40

Tgt Ion:104 Resp: 345

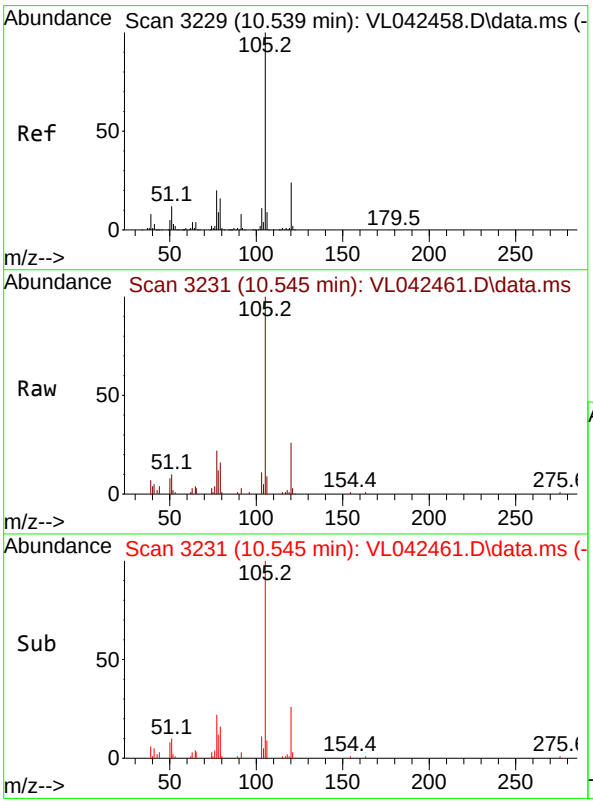
Ion	Ratio	Lower	Upper
104	100		
78	65.3	46.9	70.3
103	51.2	36.6	55.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

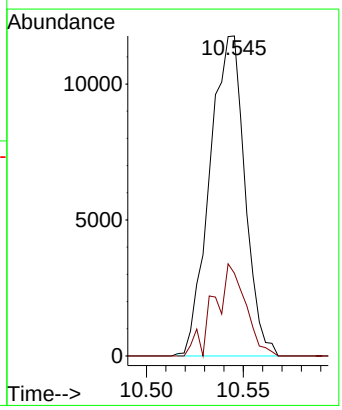
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

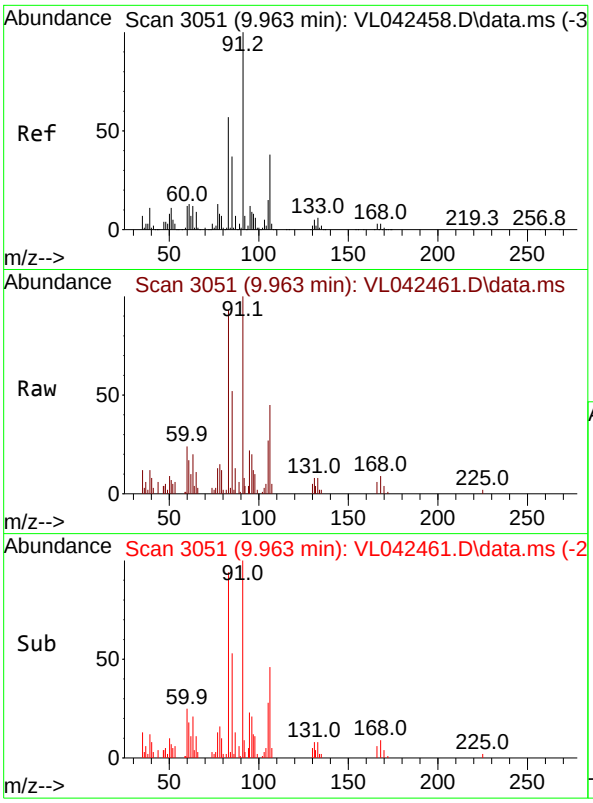


#62
Isopropylbenzene
Concen: 0.440 ppbv
RT: 10.545 min Scan# 3231
Delta R.T. 0.007 min
Lab File: VL042461.D
Acq: 01 May 2025 10:40

Tgt Ion:105 Resp: 14837

Ion	Ratio	Lower	Upper
105	100		
120	26.0	18.8	28.2

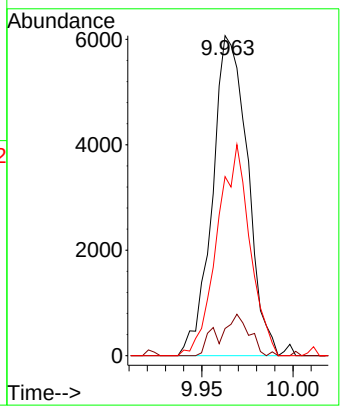




#63
1,1,2,2-Tetrachloroethane
Concen: 0.537 ppbv
RT: 9.963 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042461.D
Acq: 01 May 2025 10:40

Tgt Ion: 83 Resp: 813

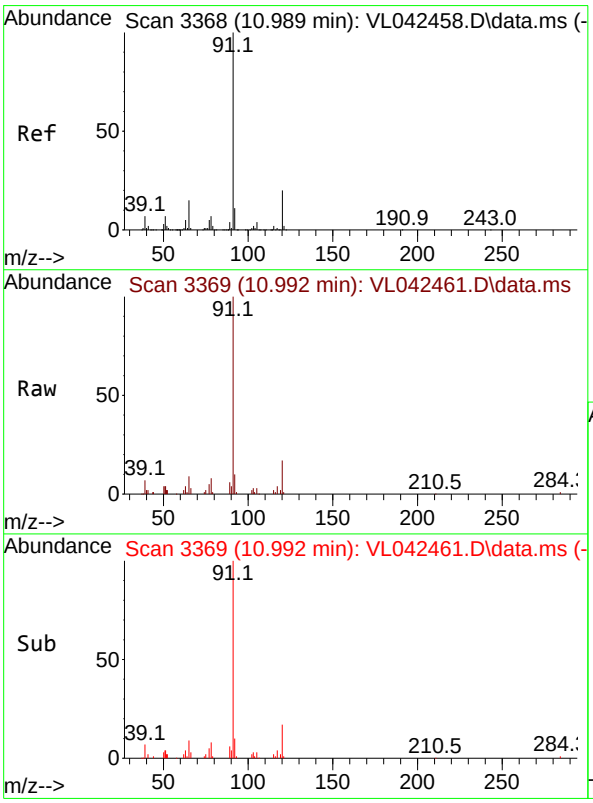
Ion	Ratio	Lower	Upper
83	100		
131	11.9	4.7	14.1
85	61.7	32.5	97.4



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

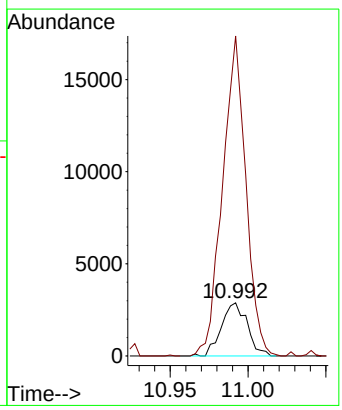
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

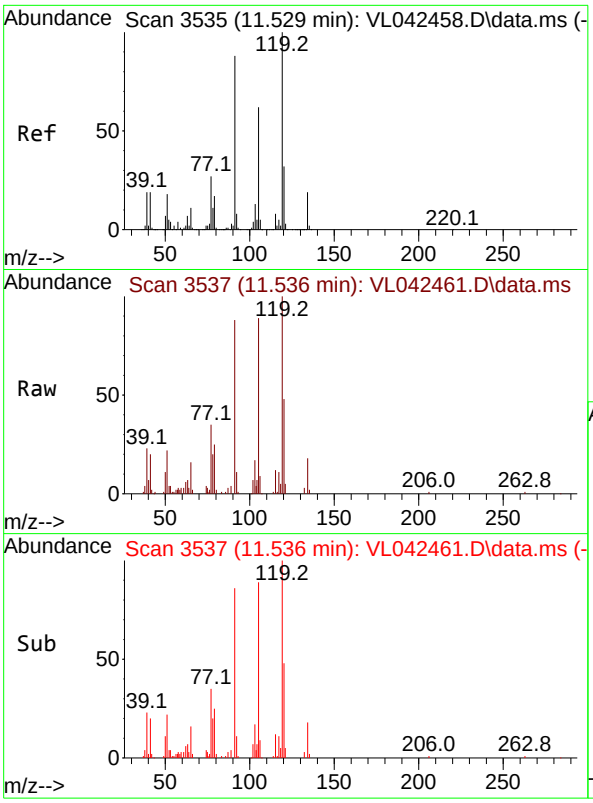


#64
n-propylbenzene
Concen: 0.405 ppbv m
RT: 10.992 min Scan# 3369
Delta R.T. 0.003 min
Lab File: VL042461.D
Acq: 01 May 2025 10:40

Tgt Ion:120 Resp: 3329

Ion	Ratio	Lower	Upper
120	100		
91	547.8	408.6	612.8

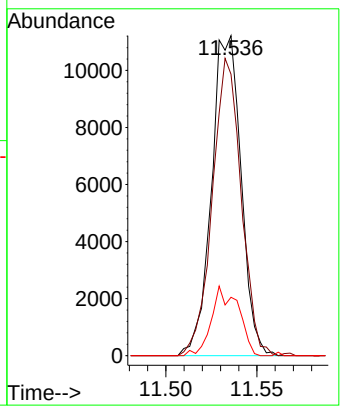




#65
tert-Butylbenzene
Concen: 0.421 ppbv
RT: 11.536 min Scan# 3
Delta R.T. 0.007 min
Lab File: VL042461.D
Acq: 01 May 2025 10:40

Tgt Ion:119 Resp: 1265

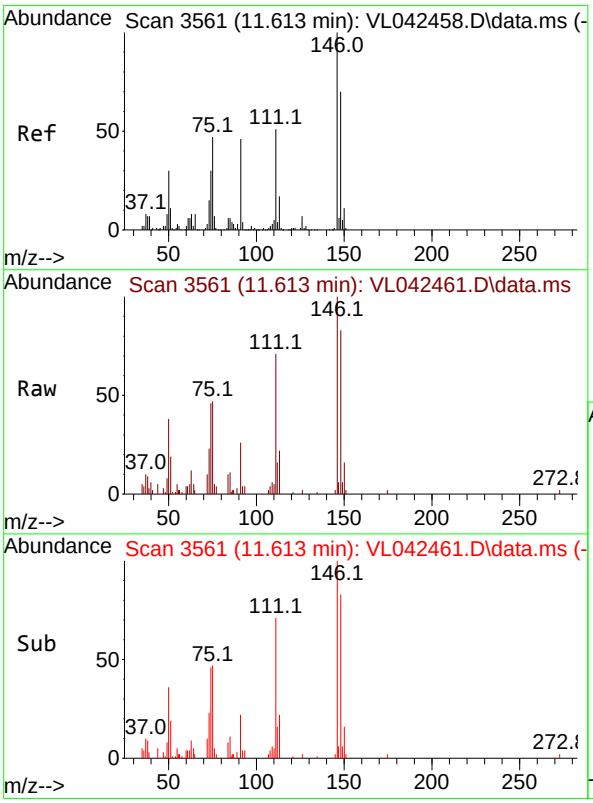
Ion	Ratio	Lower	Upper
119	100		
91	90.6	71.6	107.4
134	19.9	15.0	22.4



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

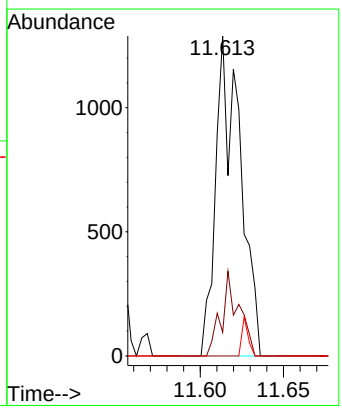
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

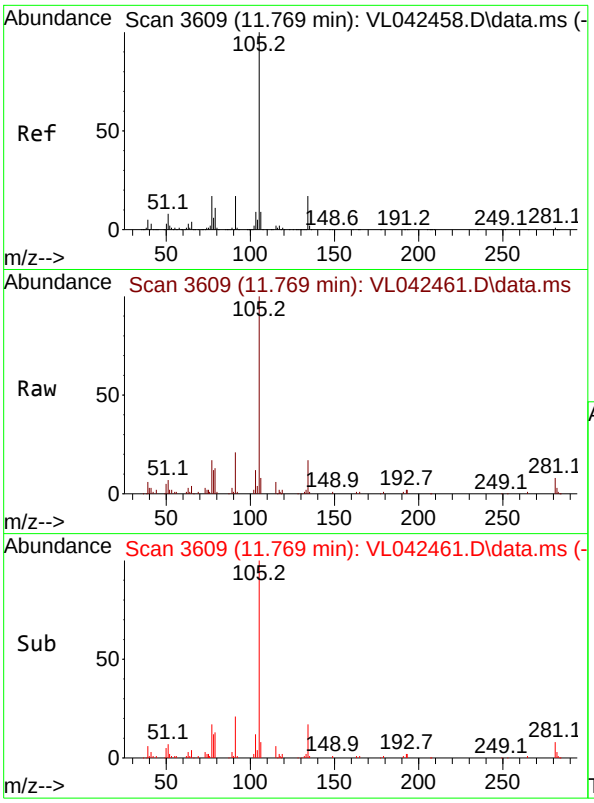


#66
Benzyl Chloride
Concen: 0.379 ppbv m
RT: 11.613 min Scan# 3561
Delta R.T. 0.000 min
Lab File: VL042461.D
Acq: 01 May 2025 10:40

Tgt Ion: 91 Resp: 1317

Ion	Ratio	Lower	Upper
91	100		
126	19.0	13.3	19.9
128	0.0	4.2	6.4#

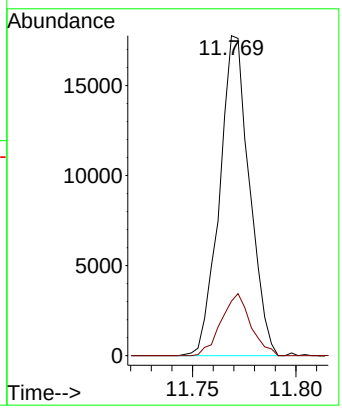




#67
sec-Butylbenzene
Concen: 0.419 ppbv
RT: 11.769 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042461.D
Acq: 01 May 2025 10:40

Tgt Ion:105 Resp: 1790

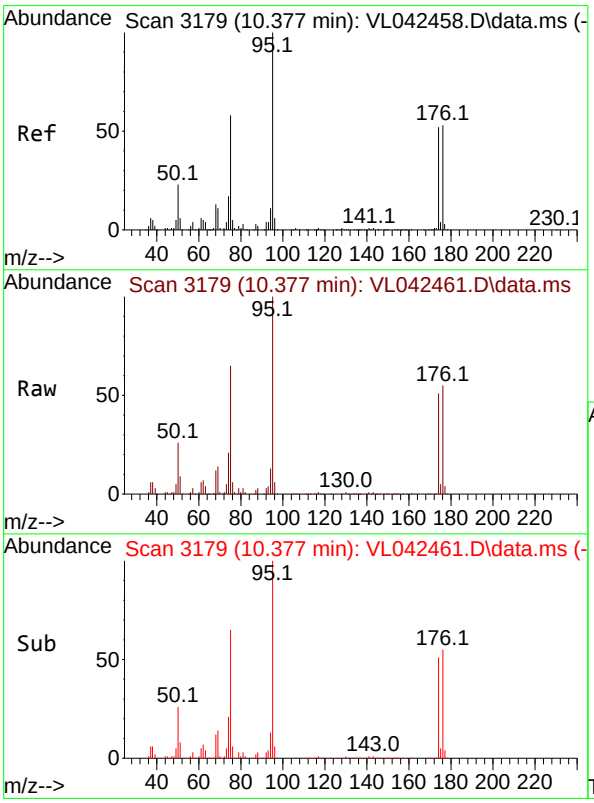
Ion	Ratio	Lower	Upper
105	100		
134	19.1	14.1	21.1



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

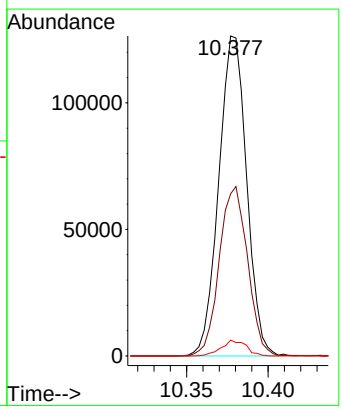
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

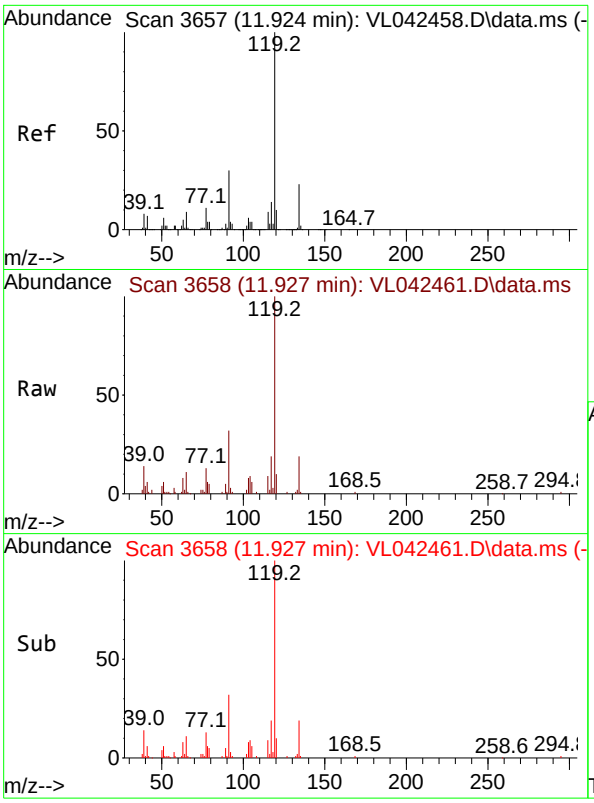


#68
1-Bromo-4-Fluorobenzene
Concen: 9.728 ppbv
RT: 10.377 min Scan# 3179
Delta R.T. 0.000 min
Lab File: VL042461.D
Acq: 01 May 2025 10:40

Tgt Ion: 95 Resp: 150277

Ion	Ratio	Lower	Upper
95	100		
174	53.8	42.7	64.1
175	4.4	3.6	5.4

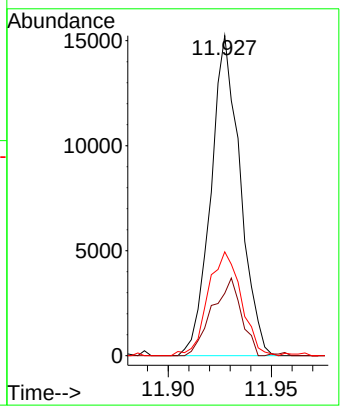




#69
p-Isopropyltoluene
Concen: 0.417 ppbv
RT: 11.927 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042461.D
Acq: 01 May 2025 10:40

Tgt Ion:119 Resp: 1503

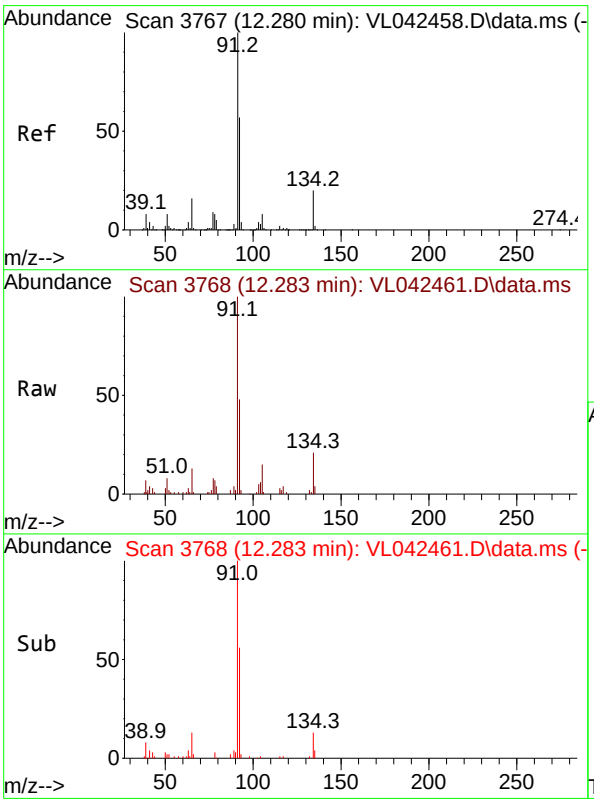
Ion	Ratio	Lower	Upper
119	100		
134	24.5	19.0	28.4
91	37.4	25.5	38.3



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

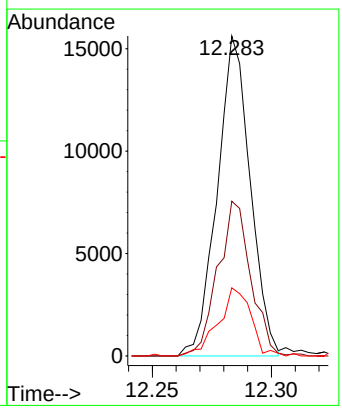
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

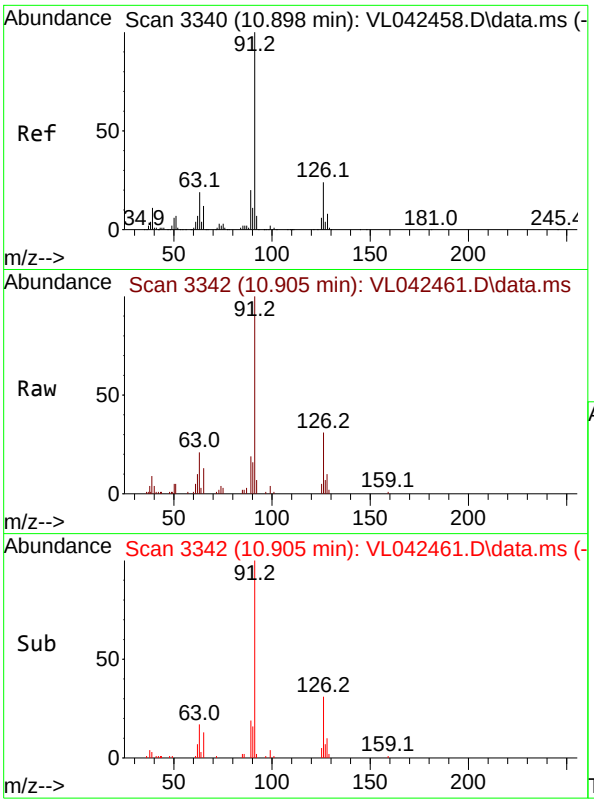


#70
n-Butylbenzene
Concen: 0.403 ppbv
RT: 12.283 min Scan# 3768
Delta R.T. 0.003 min
Lab File: VL042461.D
Acq: 01 May 2025 10:40

Tgt Ion: 91 Resp: 15016

Ion	Ratio	Lower	Upper
91	100		
92	48.4	44.0	66.0
134	21.6	16.8	25.2

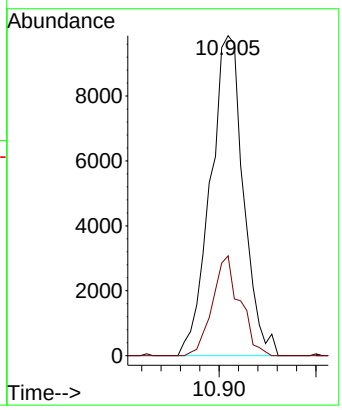




#71
2-Chlorotoluene
Concen: 0.443 ppbv
RT: 10.905 min Scan# 3
Delta R.T. 0.007 min
Lab File: VL042461.D
Acq: 01 May 2025 10:40

Tgt Ion: 91 Resp: 1170

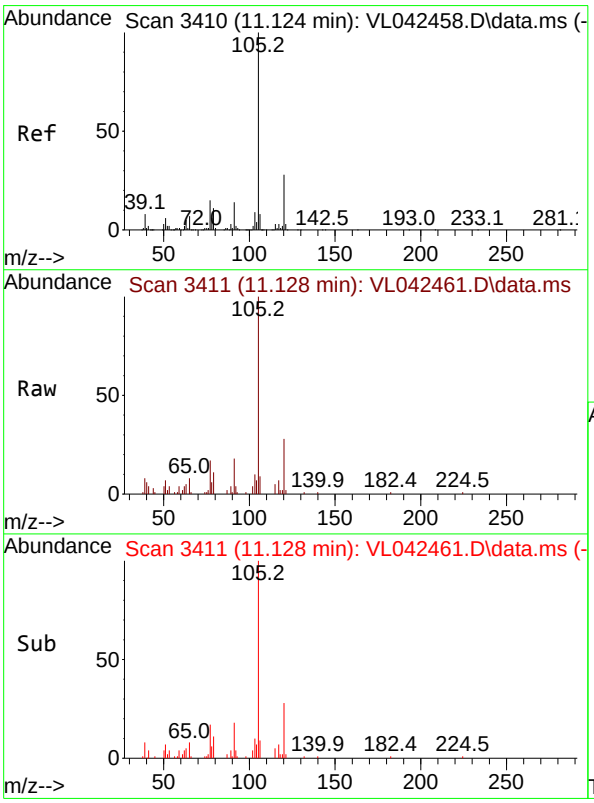
Ion	Ratio	Lower	Upper
91	100		
126	26.0	10.6	42.2



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

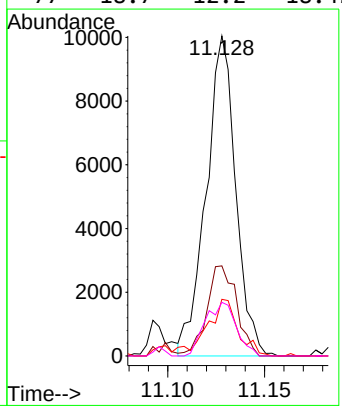
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

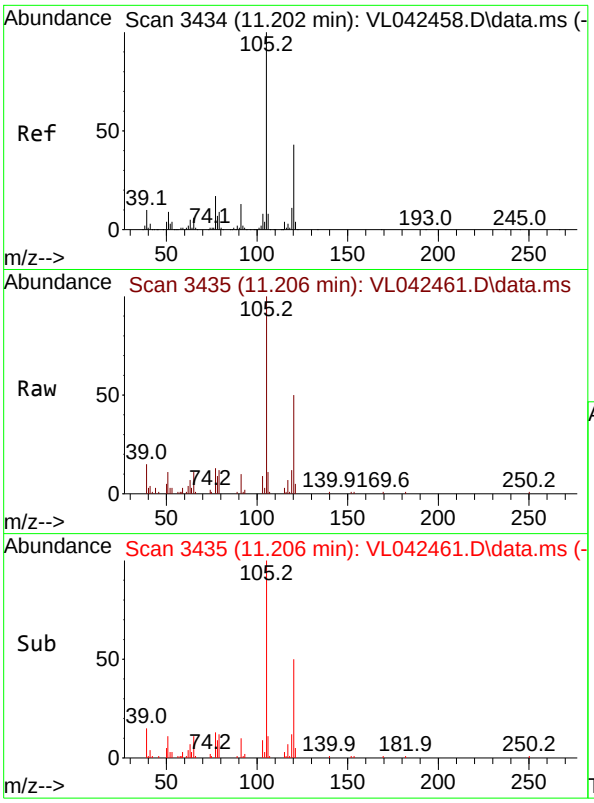


#72
4-Ethyltoluene
Concen: 0.387 ppbv
RT: 11.128 min Scan# 3411
Delta R.T. 0.003 min
Lab File: VL042461.D
Acq: 01 May 2025 10:40

Tgt Ion:105 Resp: 10671

Ion	Ratio	Lower	Upper
105	100		
120	30.2	22.0	33.0
91	20.6	11.2	16.8#
77	18.7	12.2	18.4#

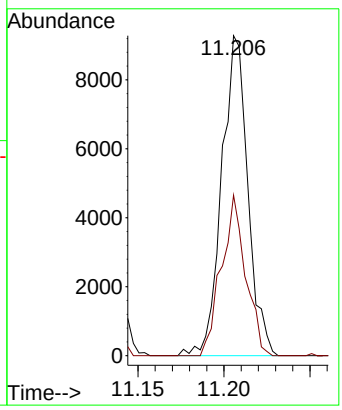




#73
1,3,5-Trimethylbenzene
Concen: 0.405 ppbv
RT: 11.206 min Scan# 34
Delta R.T. 0.003 min
Lab File: VL042461.D
Acq: 01 May 2025 10:40

Tgt Ion:105 Resp: 980

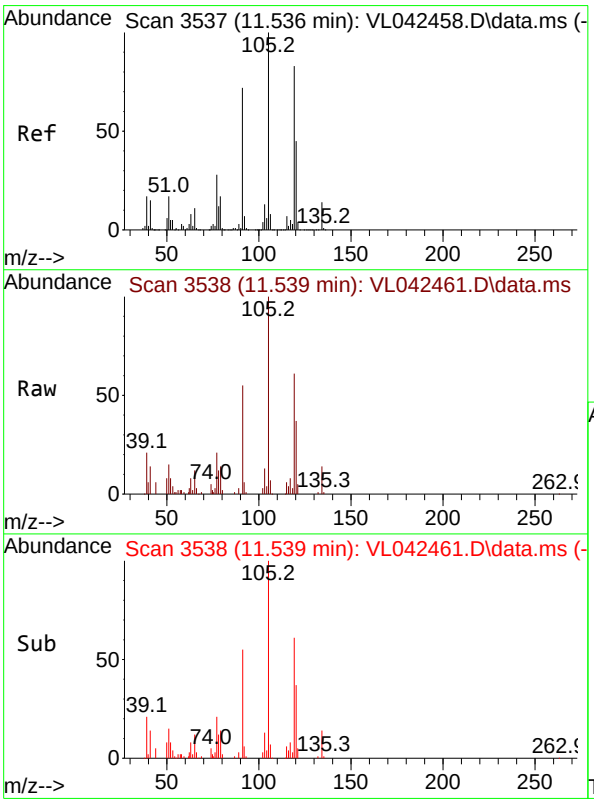
Ion	Ratio	Lower	Upper
105	100		
120	50.2	34.4	51.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

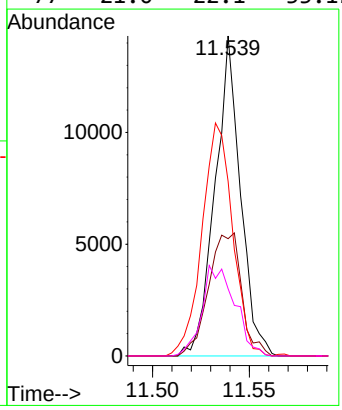
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

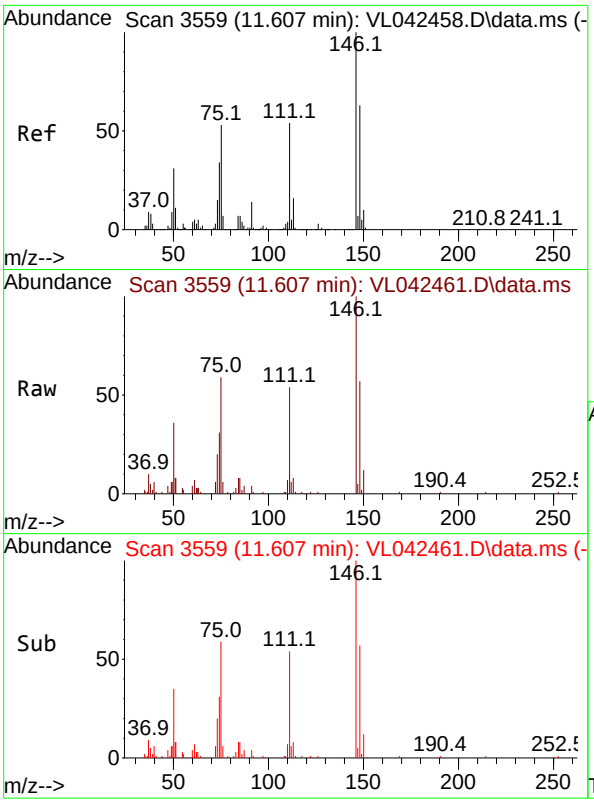


#74
1,2,4-Trimethylbenzene
Concen: 0.445 ppbv
RT: 11.539 min Scan# 3538
Delta R.T. 0.003 min
Lab File: VL042461.D
Acq: 01 May 2025 10:40

Tgt Ion:105 Resp: 13060

Ion	Ratio	Lower	Upper
105	100		
120	36.7	36.1	54.1
91	54.1	57.6	86.4#
77	21.0	22.1	33.1#





#75
1,3-Dichlorobenzene
Concen: 0.498 ppbv
RT: 11.607 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042461.D
Acq: 01 May 2025 10:40

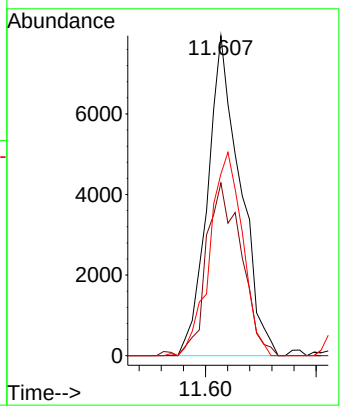
Tgt Ion:146 Resp: 812

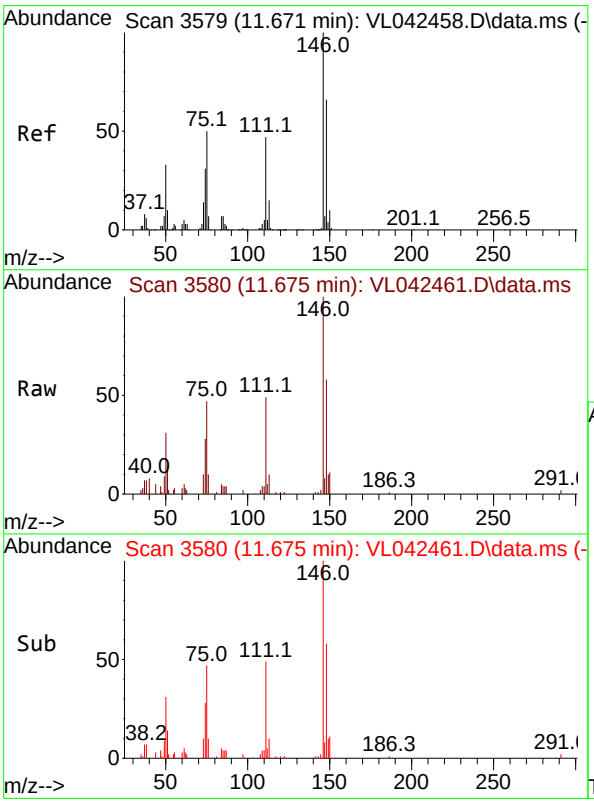
Ion	Ratio	Lower	Upper
146	100		
111	58.0	26.1	78.3
148	63.9	32.0	96.0

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

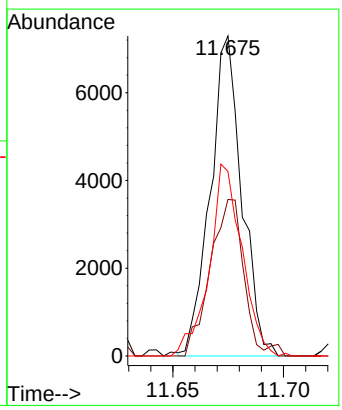


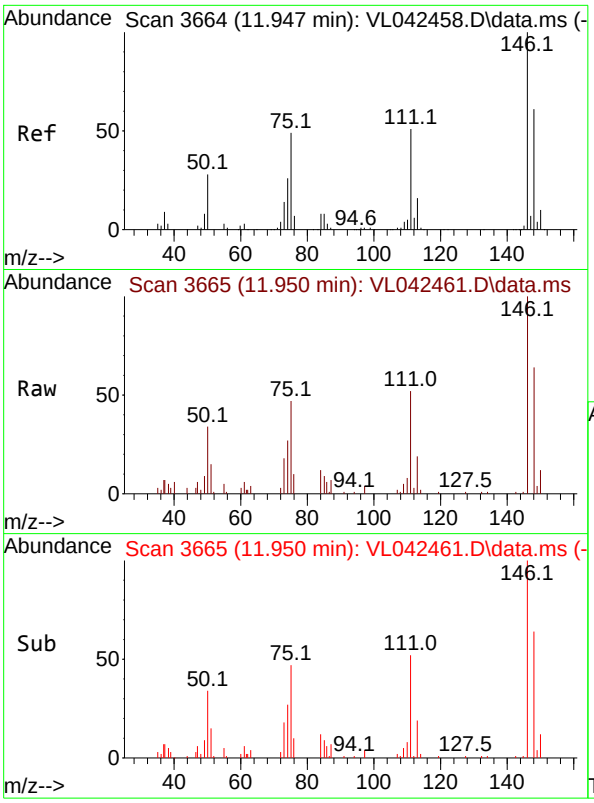


#76
1,4-Dichlorobenzene
Concen: 0.469 ppbv
RT: 11.675 min Scan# 3580
Delta R.T. 0.003 min
Lab File: VL042461.D
Acq: 01 May 2025 10:40

Tgt Ion:146 Resp: 7238

Ion	Ratio	Lower	Upper
146	100		
111	52.4	24.4	73.2
148	61.9	32.0	96.2

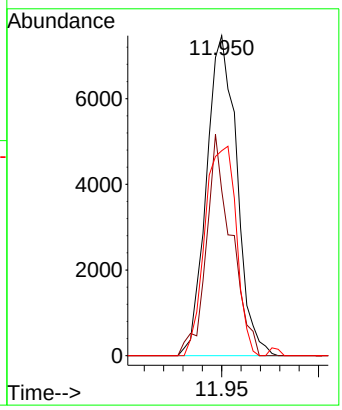




#77
1,2-Dichlorobenzene
Concen: 0.509 ppbv
RT: 11.950 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042461.D
Acq: 01 May 2025 10:40

Tgt Ion:146 Resp: 814

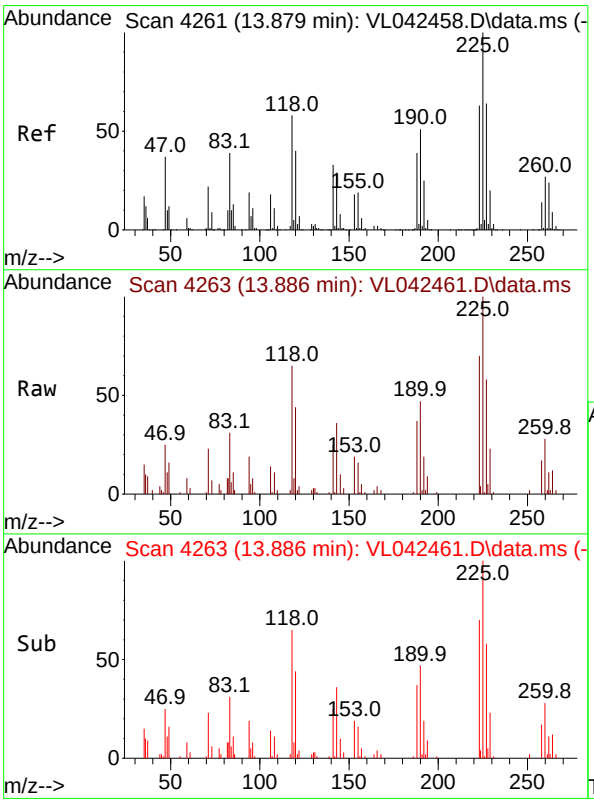
Ion	Ratio	Lower	Upper
146	100		
111	56.9	26.5	79.5
148	68.3	31.5	94.5



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

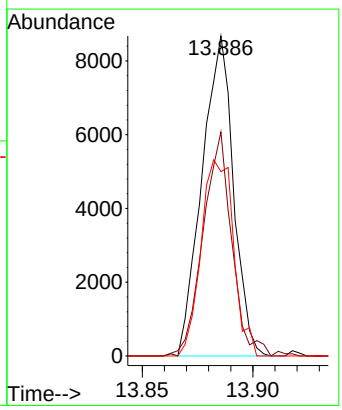
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

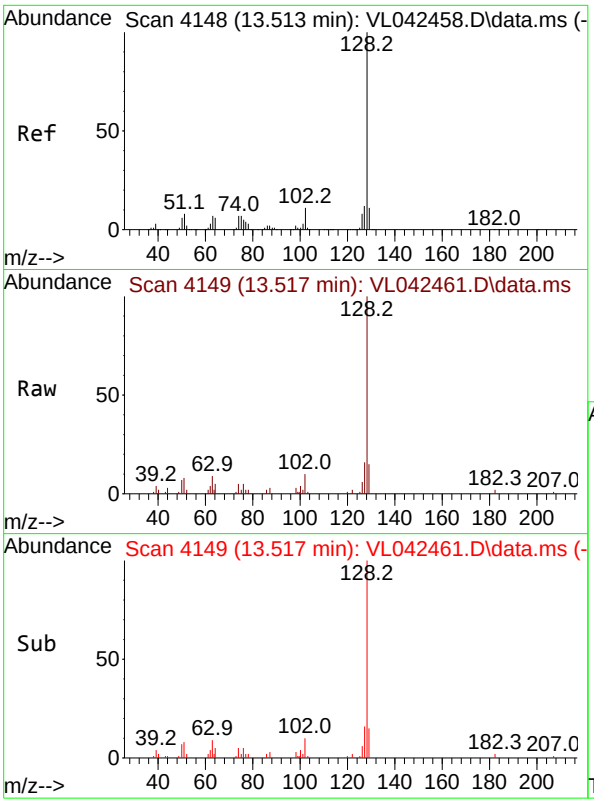


#78
Hexachloro-1,3-Butadiene
Concen: 0.537 ppbv
RT: 13.886 min Scan# 4263
Delta R.T. 0.007 min
Lab File: VL042461.D
Acq: 01 May 2025 10:40

Tgt Ion:225 Resp: 8565

Ion	Ratio	Lower	Upper
225	100		
223	64.1	50.2	75.4
227	63.1	51.2	76.8

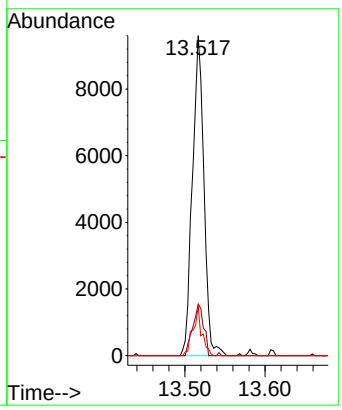




#79
Naphthalene
Concen: 0.396 ppbv m
RT: 13.517 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL042461.D
Acq: 01 May 2025 10:40

Tgt Ion:128 Resp: 973

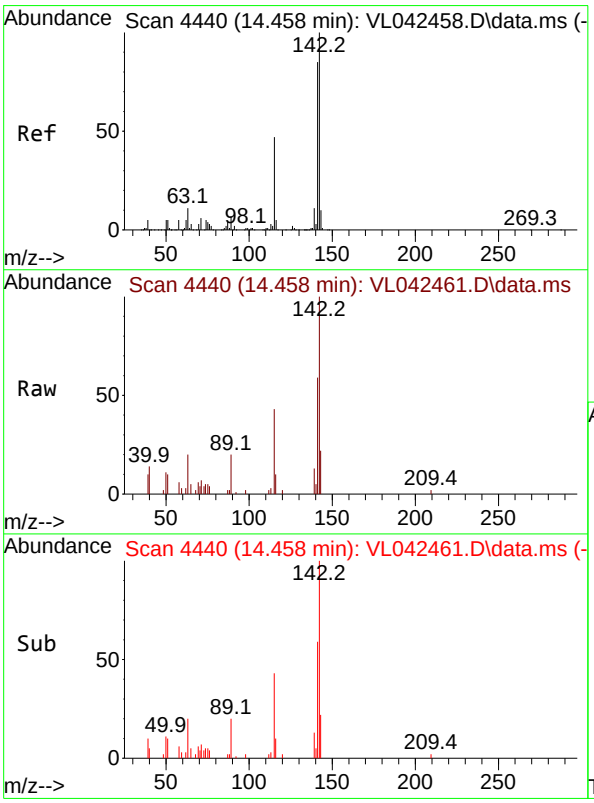
Ion	Ratio	Lower	Upper
128	100		
127	16.1	9.7	14.5#
129	15.5	8.6	13.0#



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

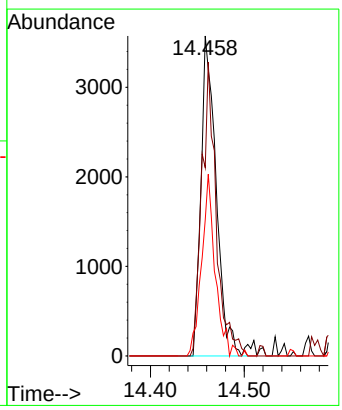
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

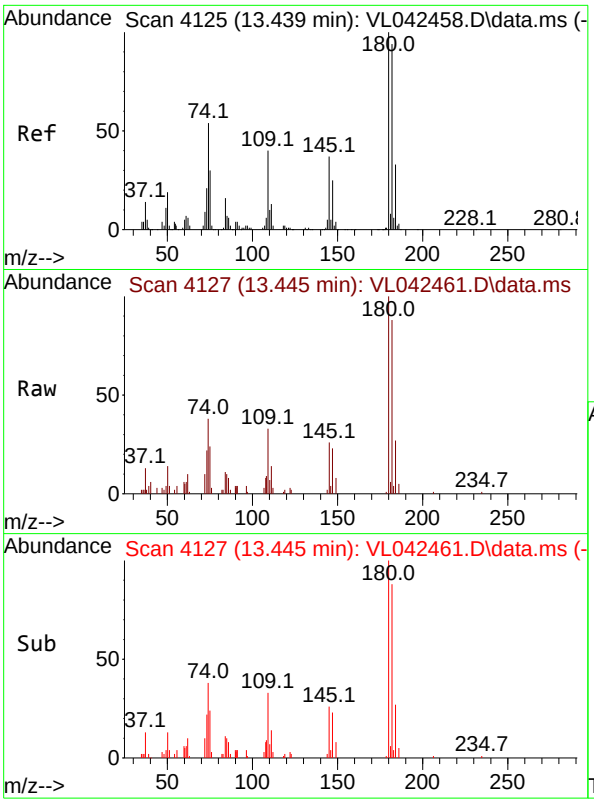


#80
Naphthalene,2-methyl-
Concen: 0.226 ppbv
RT: 14.458 min Scan# 4440
Delta R.T. 0.000 min
Lab File: VL042461.D
Acq: 01 May 2025 10:40

Tgt Ion:142 Resp: 4153

Ion	Ratio	Lower	Upper
142	100		
141	84.6	67.4	101.0
115	49.4	36.9	55.3

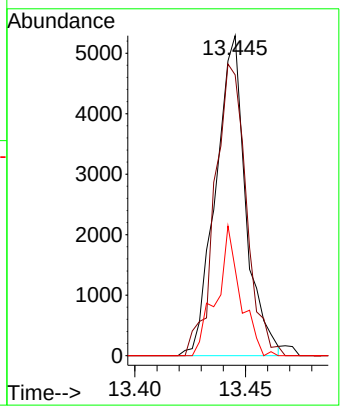




#81
1,2,4-Trichlorobenzene
Concen: 0.379 ppbv
RT: 13.445 min Scan# 4
Delta R.T. 0.007 min
Lab File: VL042461.D
Acq: 01 May 2025 10:40

Tgt Ion:180 Resp: 499

Ion	Ratio	Lower	Upper
180	100		
182	94.8	74.6	111.8
184	32.3	24.9	37.3



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050125\
Data File : VL042462.D
Acq On : 01 May 2025 11:12
Operator : SY/MD
Sample : VSTDICC0.1
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 02 01:43:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Fri May 02 01:37:48 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.787	49	65449	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	186907	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.882	117	157618	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	143644	9.830	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 98.300%			
Target Compounds						Qvalue
5) Vinyl Chloride	1.580	62	631	0.138	ppbv	# 53
32) 1,1,1-Trichloroethane	3.363	97	1860m	0.110	ppbv	
35) Carbon Tetrachloride	3.758	117	1493	0.092	ppbv	# 55
38) Trichloroethene	4.551	130	784m	0.117	ppbv	
52) Tetrachloroethene	8.221	164	710m	0.106	ppbv	
54) 1,2-Dibromoethane	7.665	107	1169m	0.105	ppbv	
63) 1,1,2,2-Tetrachloroethane	9.966	83	1490	0.104	ppbv	# 75
79) Naphthalene	13.517	128	1135m	0.049	ppbv	

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

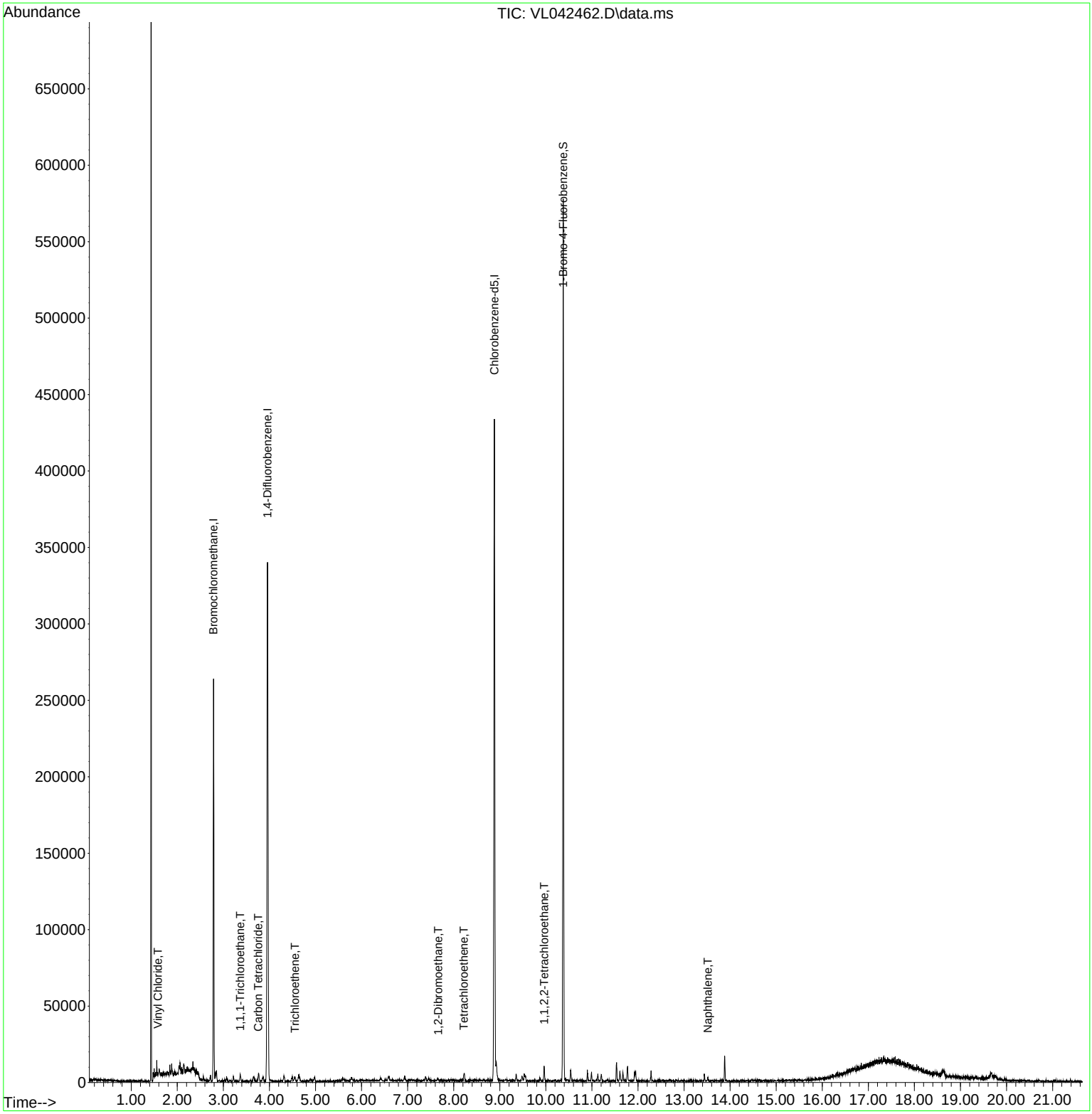
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050125\
Data File : VL042462.D
Acq On : 01 May 2025 11:12
Operator : SY/MD
Sample : VSTDICC0.1
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

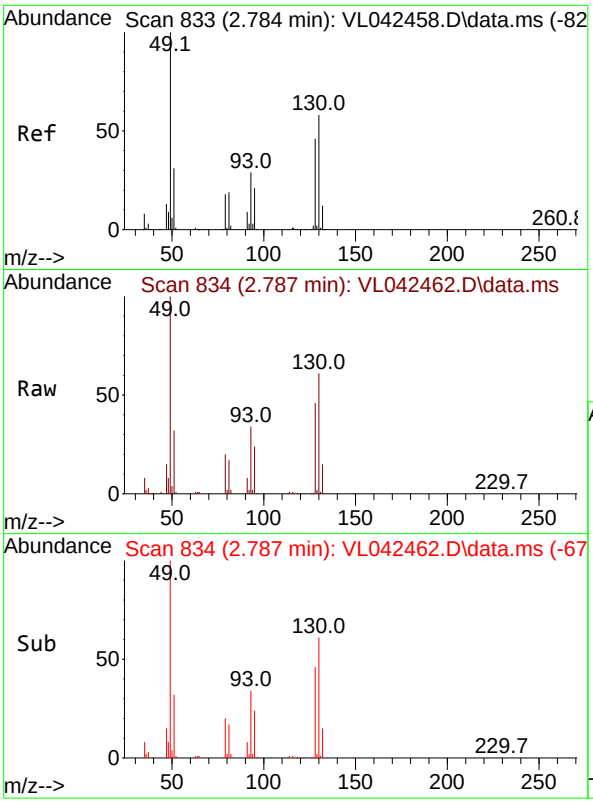
Quant Time: May 02 01:43:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri May 02 01:37:48 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

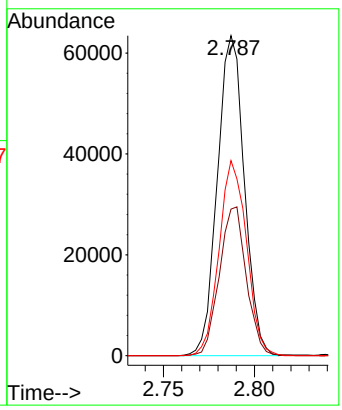




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042462.D
Acq: 01 May 2025 11:12

Tgt Ion: 49 Resp: 6544

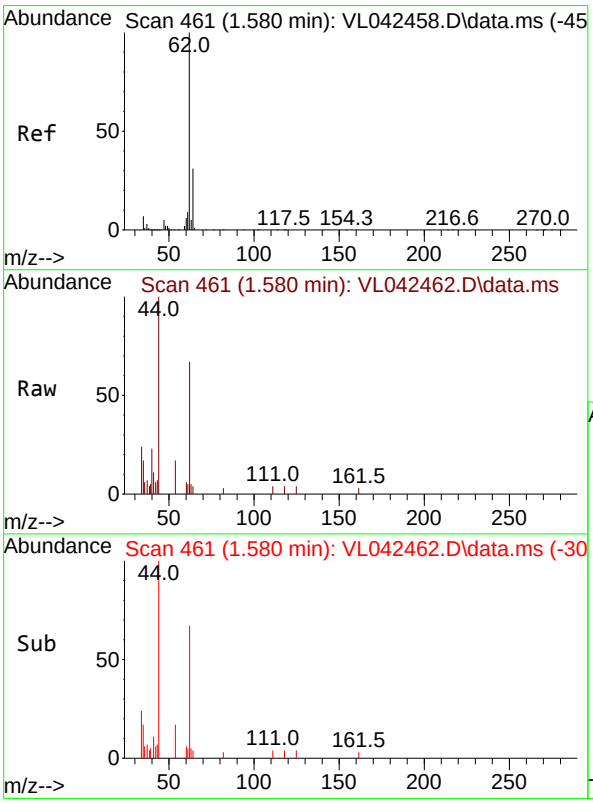
Ion	Ratio	Lower	Upper
49	100		
128	46.4	23.3	69.9
130	61.9	29.5	88.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Manual Integrations
APPROVED

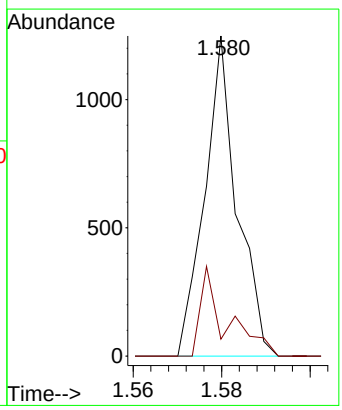
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

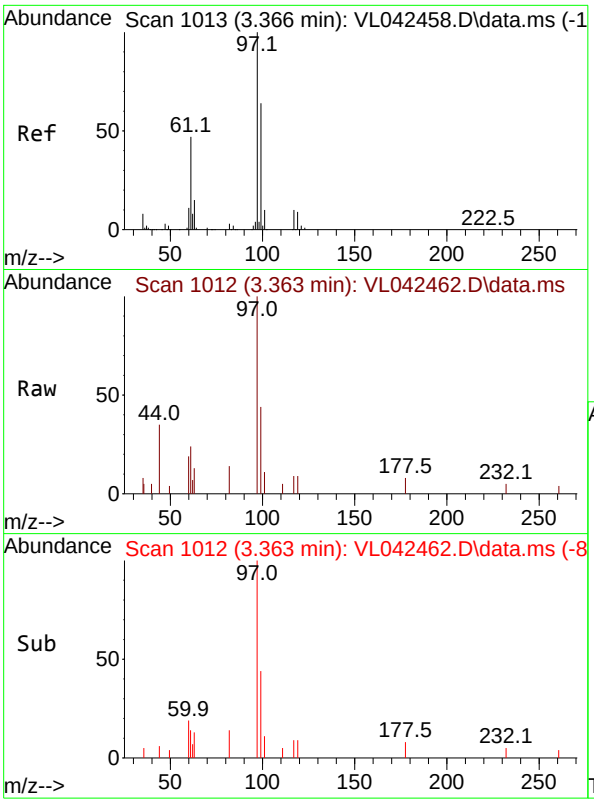


#5
Vinyl Chloride
Concen: 0.138 ppbv
RT: 1.580 min Scan# 461
Delta R.T. 0.000 min
Lab File: VL042462.D
Acq: 01 May 2025 11:12

Tgt Ion: 62 Resp: 631

Ion	Ratio	Lower	Upper
62	100		
64	5.3	24.9	37.3#

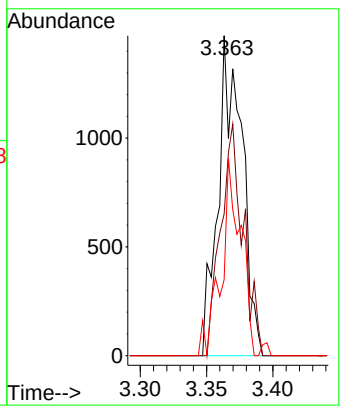




#32
1,1,1-Trichloroethane
Concen: 0.110 ppbv m
RT: 3.363 min Scan# 1(
Delta R.T. -0.003 min
Lab File: VL042462.D
Acq: 01 May 2025 11:12

Tgt Ion: 97 Resp: 186(

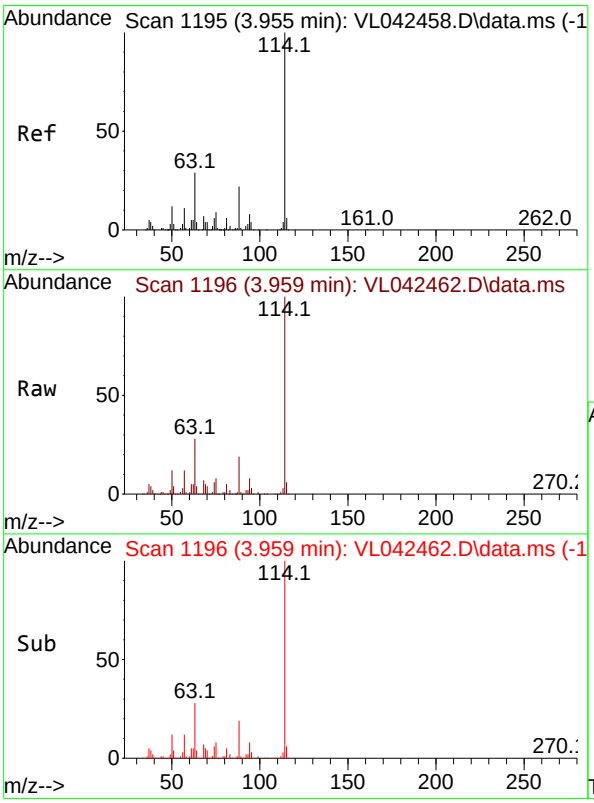
Ion	Ratio	Lower	Upper
97	100		
99	67.5	50.7	76.1
61	51.5	40.9	61.3



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Manual Integrations
APPROVED

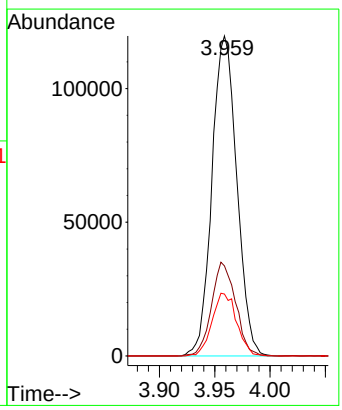
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

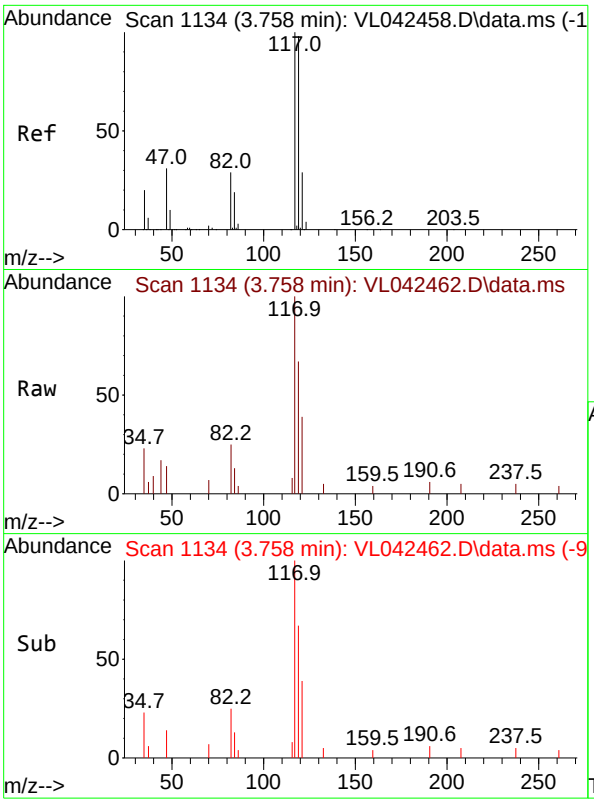


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.959 min Scan# 1196
Delta R.T. 0.003 min
Lab File: VL042462.D
Acq: 01 May 2025 11:12

Tgt Ion:114 Resp: 186907

Ion	Ratio	Lower	Upper
114	100		
63	28.4	23.1	34.7
88	19.4	16.1	24.1

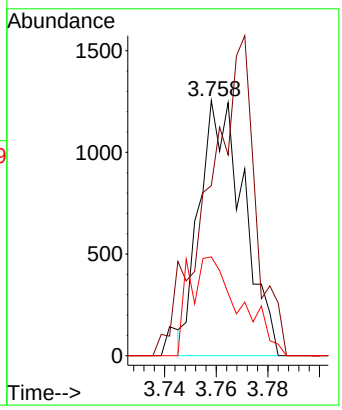




#35
Carbon Tetrachloride
Concen: 0.092 ppbv
RT: 3.758 min Scan# 1
Delta R.T. 0.000 min
Lab File: VL042462.D
Acq: 01 May 2025 11:12

Tgt Ion:117 Resp: 149

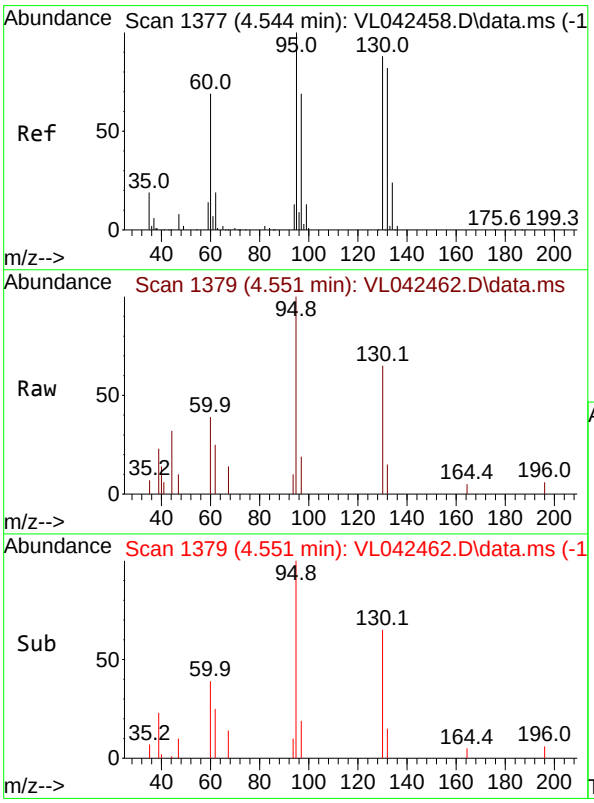
Ion	Ratio	Lower	Upper
117	100		
119	46.1	78.1	117.1#
121	38.7	23.0	34.6#



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Manual Integrations
APPROVED

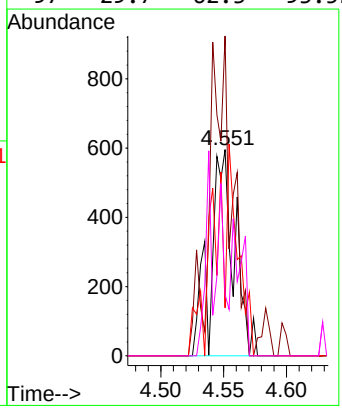
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

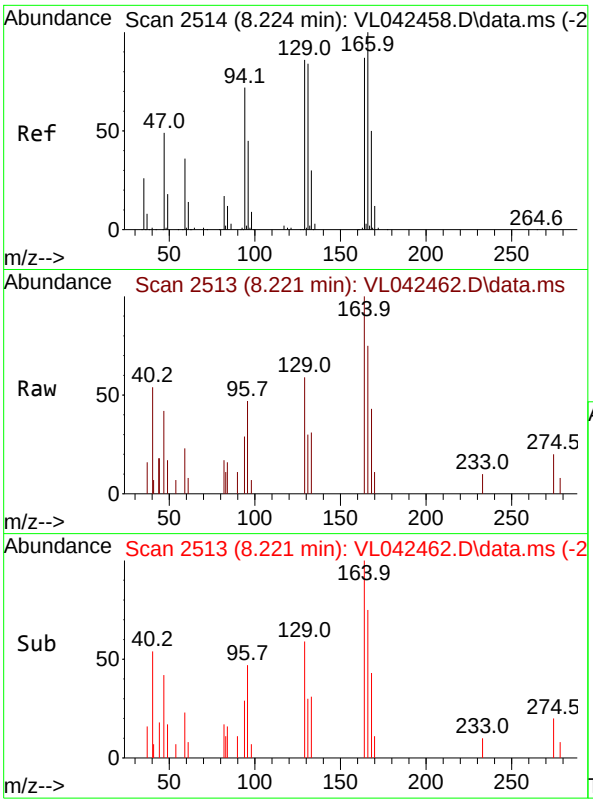


#38
Trichloroethene
Concen: 0.117 ppbv m
RT: 4.551 min Scan# 1379
Delta R.T. 0.007 min
Lab File: VL042462.D
Acq: 01 May 2025 11:12

Tgt Ion:130 Resp: 784

Ion	Ratio	Lower	Upper
130	100		
95	155.0	91.0	136.4#
132	23.3	74.2	111.4#
97	29.7	62.3	93.5#

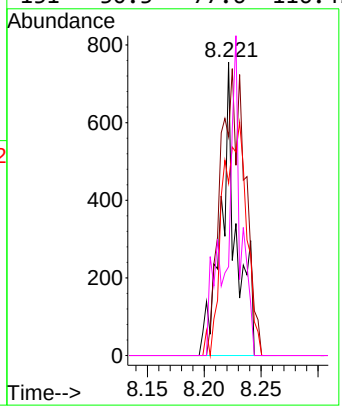




#52
Tetrachloroethene
Concen: 0.106 ppbv m
RT: 8.221 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL042462.D
Acq: 01 May 2025 11:12

Tgt Ion:164 Resp: 71

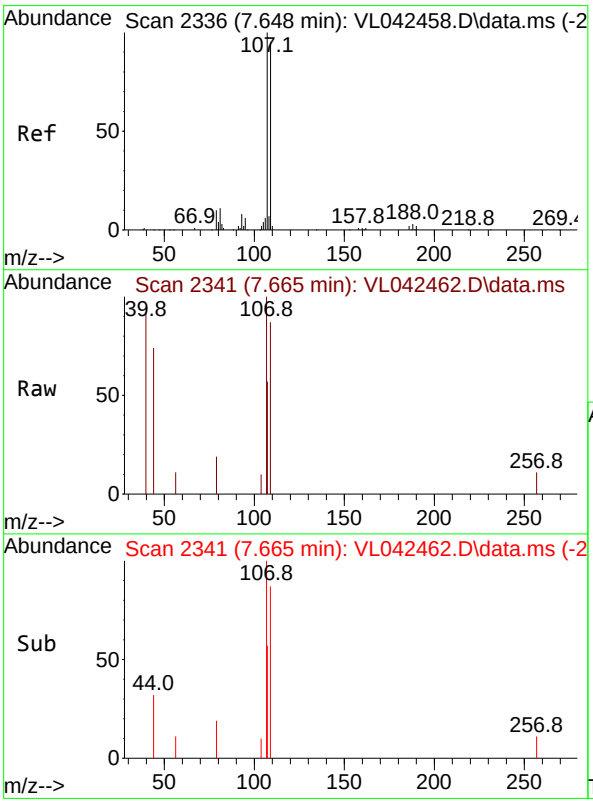
Ion	Ratio	Lower	Upper
164	100		
166	74.6	91.6	137.4#
129	58.7	79.0	118.4#
131	30.3	77.6	116.4#



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Manual Integrations
APPROVED

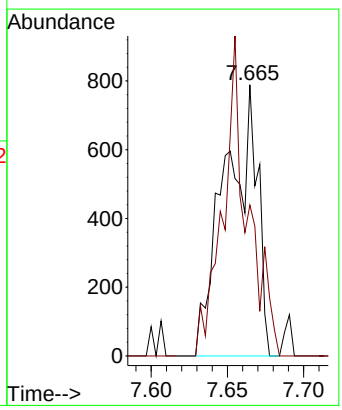
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

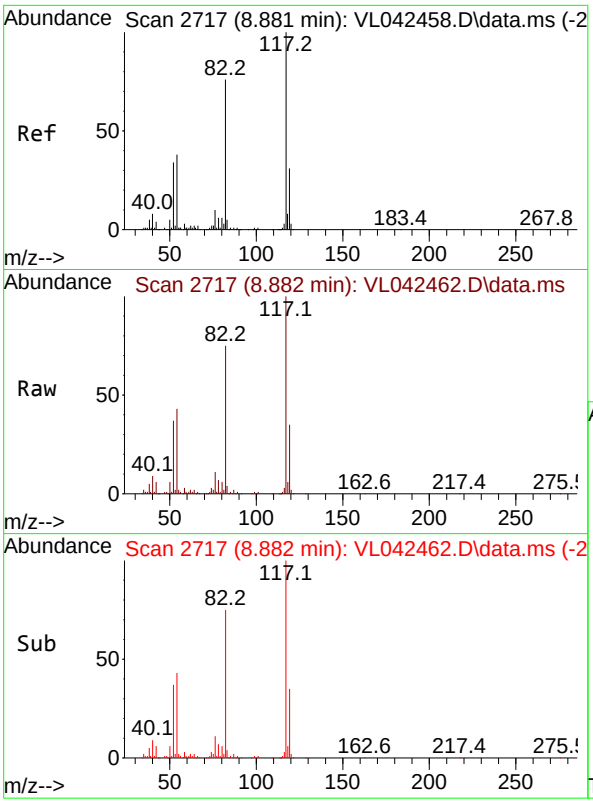


#54
1,2-Dibromoethane
Concen: 0.105 ppbv m
RT: 7.665 min Scan# 2341
Delta R.T. 0.016 min
Lab File: VL042462.D
Acq: 01 May 2025 11:12

Tgt Ion:107 Resp: 1169

Ion	Ratio	Lower	Upper
107	100		
109	87.1	76.0	114.0

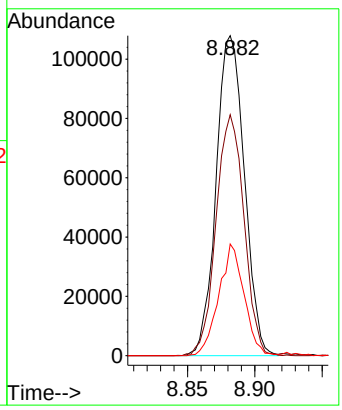




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.882 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042462.D
Acq: 01 May 2025 11:12

Tgt Ion:117 Resp: 15761

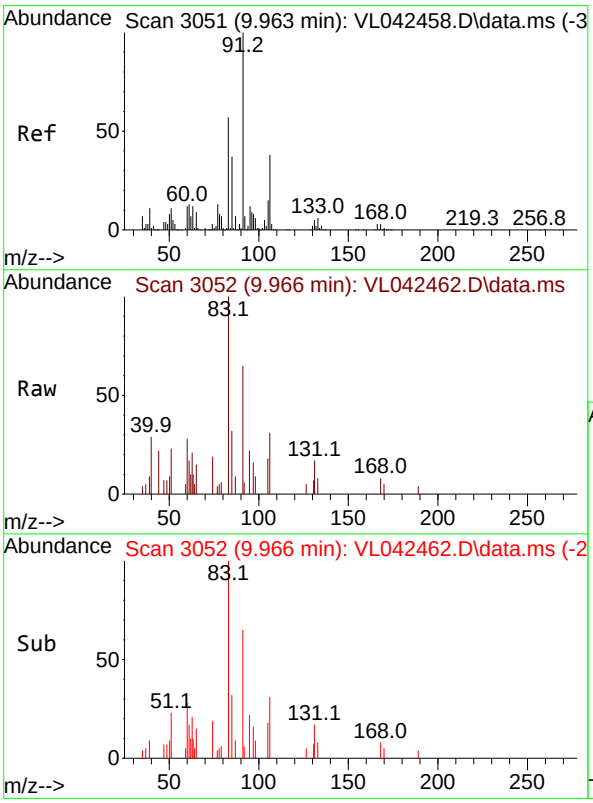
Ion	Ratio	Lower	Upper
117	100		
82	74.3	63.5	95.3
119	31.7	25.8	38.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Manual Integrations
APPROVED

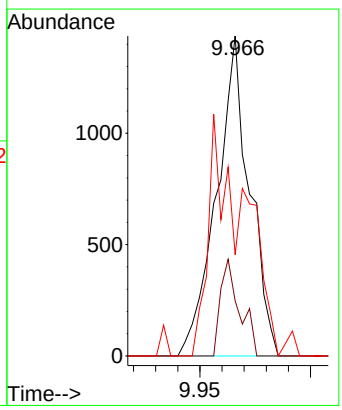
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

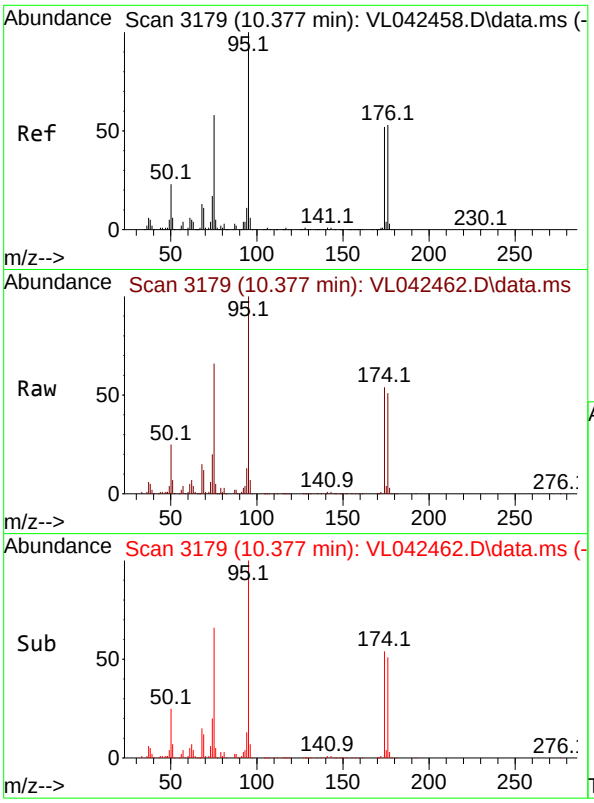


#63
1,1,2,2-Tetrachloroethane
Concen: 0.104 ppbv
RT: 9.966 min Scan# 3052
Delta R.T. 0.003 min
Lab File: VL042462.D
Acq: 01 May 2025 11:12

Tgt Ion: 83 Resp: 1490

Ion	Ratio	Lower	Upper
83	100		
131	17.4	4.7	14.1#
85	84.8	32.5	97.4

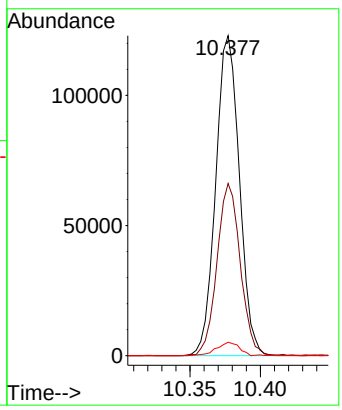




#68
1-Bromo-4-Fluorobenzene
Concen: 9.830 ppbv
RT: 10.377 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042462.D
Acq: 01 May 2025 11:12

Tgt Ion: 95 Resp: 14364

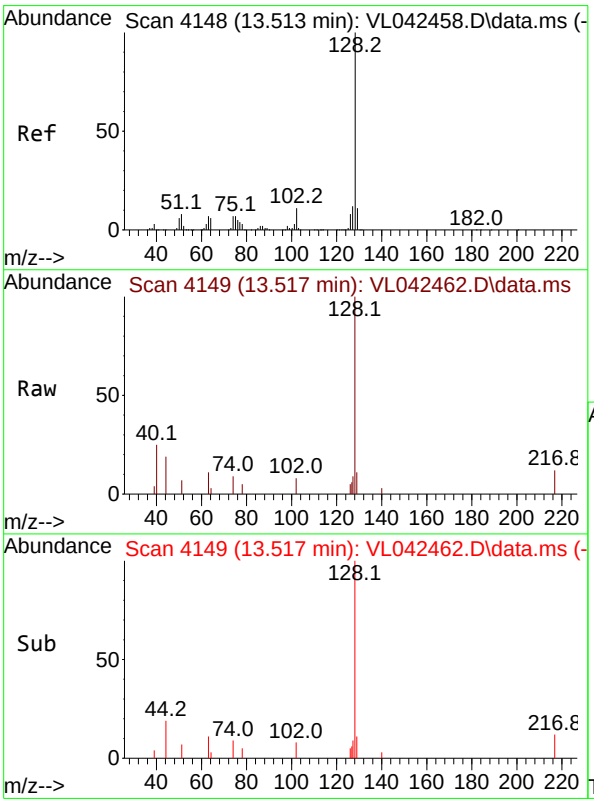
Ion	Ratio	Lower	Upper
95	100		
174	53.0	42.7	64.1
175	4.1	3.6	5.4



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Manual Integrations
APPROVED

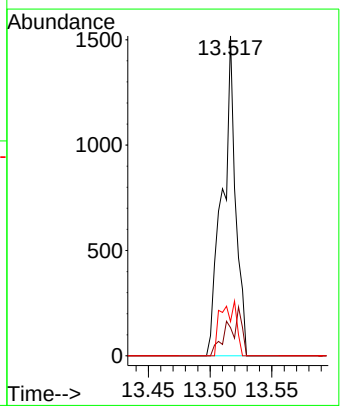
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025



#79
Naphthalene
Concen: 0.049 ppbv m
RT: 13.517 min Scan# 4149
Delta R.T. 0.003 min
Lab File: VL042462.D
Acq: 01 May 2025 11:12

Tgt Ion:128 Resp: 1135

Ion	Ratio	Lower	Upper
128	100		
127	8.8	9.7	14.5#
129	10.7	8.6	13.0



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050125\
Data File : VL042465.D
Acq On : 01 May 2025 12:49
Operator : SY/MD
Sample : VSTDICC015
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 02 01:45:25 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri May 02 01:37:48 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.787	49	64314	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	178877	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	157673	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	151837	10.387	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 103.900%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	158069	14.852	ppbv	99
3) Chlorodifluoromethane	1.476	51	154556	13.735	ppbv	100
4) Chloromethane	1.535	50	64267	14.447	ppbv	95
5) Vinyl Chloride	1.580	62	60873	13.592	ppbv	98
6) Bromomethane	1.667	94	31246	14.766	ppbv	87
7) Chloroethane	1.703	64	25181	15.227	ppbv	92
8) Dichlorotetrafluoroethane	1.554	85	131995	15.044	ppbv	99
9) Propene	1.486	41	49647	13.489	ppbv	99
10) Heptane	4.982	43	142235	14.898	ppbv	100
11) Trichlorofluoromethane	1.878	101	152655	16.082	ppbv	100
12) 1,1,2-Trichlorotrifluo...	2.140	101	115855	14.775	ppbv	96
13) Ethanol	1.722	45	8090	10.832	ppbv	98
14) Bromoethene	1.781	108	44928	15.519	ppbv	96
15) Acetone	1.836	43	141306	12.036	ppbv	99
16) 1,3-Butadiene	1.609	39	72455	13.992	ppbv	98
17) tert-Butyl alcohol	2.043	59	144935	14.012	ppbv	99
18) 1,1-Dichloroethene	2.033	96	52813	14.424	ppbv	98
19) Isopropyl Alcohol	1.887	45	86000	13.235	ppbv #	1
20) Methylene Chloride	2.062	84	46063	13.050	ppbv	94
21) Allyl Chloride	2.098	41	112451	14.893	ppbv	99
22) trans-1,2-Dichloroethene	2.341	96	62153	14.534	ppbv	100
23) Vinyl Acetate	2.464	43	169418	15.489	ppbv	99
24) 1,1-Dichloroethane	2.409	63	127567	14.622	ppbv	97
25) Ethyl Acetate	2.836	43	269372	14.329	ppbv	100
26) Hexane	2.826	57	119552	14.598	ppbv	97
27) Carbon Disulfide	2.150	76	150258	15.722	ppbv #	92
28) Methyl tert-Butyl Ether	2.441	73	71341	14.500	ppbv	99
29) Chloroform	2.849	83	221976	14.464	ppbv	99
30) Cyclohexane	3.859	84	101146	14.771	ppbv	99
31) cis-1,2-Dichloroethene	2.723	61	133735	13.997	ppbv	93
32) 1,1,1-Trichloroethane	3.370	97	234752	14.099	ppbv	99
34) 2-Butanone	2.557	43	174521	13.488	ppbv	97
35) Carbon Tetrachloride	3.765	117	242144	15.566	ppbv	99
36) Benzene	3.658	78	239352	14.179	ppbv	98
37) 1,2-Dichloroethane	3.221	62	190179	14.618	ppbv	98
38) Trichloroethene	4.551	130	95257	14.798	ppbv	94
39) 1,2-Dichloropropane	4.312	63	84414	13.349	ppbv	93
40) 1,4-Dioxane	4.584	88	38551	13.115	ppbv #	100
41) Tetrahydrofuran	3.056	42	86296	14.063	ppbv	98
42) Bromodichloromethane	4.493	83	242556	15.259	ppbv	99
43) Methyl Methacrylate	4.885	69	98279	15.639	ppbv	100
44) 2,2,4-Trimethylpentane	4.642	57	401920	14.734	ppbv	99
45) t-1,3-Dichloropropene	6.419	75	136762	16.529	ppbv	92

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050125\
Data File : VL042465.D
Acq On : 01 May 2025 12:49
Operator : SY/MD
Sample : VSTDICC015
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 02 01:45:25 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Fri May 02 01:37:48 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.600	75	154705m	15.749	ppbv	
47) 1,1,2-Trichloroethane	6.587	97	99496	14.356	ppbv	93
48) Dibromochloromethane	7.393	129	180970	15.468	ppbv	98
49) Bromoform	9.487	173	152440	15.535	ppbv	99
50) 4-Methyl-2-Pentanone	5.755	43	237985	14.550	ppbv	97
51) 2-Hexanone	7.438	43	197423	15.071	ppbv	99
52) Tetrachloroethene	8.228	164	85271	13.272	ppbv	90
53) Toluene	6.937	91	281731	15.768	ppbv	100
54) 1,2-Dibromoethane	7.655	107	154739	14.523	ppbv	94
56) 1,1,1,2-Tetrachloroethane	8.927	131	133410	14.326	ppbv	98
57) Chlorobenzene	8.927	112	218370	13.783	ppbv	99
58) Ethyl Benzene	9.358	91	414805	15.743	ppbv	98
59) m/p-Xylene	9.555	91	699743m	31.674	ppbv	
60) o-Xylene	9.966	91	350328	15.863	ppbv	100
61) Styrene	9.876	104	137720	16.686	ppbv	96
62) Isopropylbenzene	10.542	105	498619	15.629	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.966	83	209726	14.635	ppbv	99
64) n-propylbenzene	10.992	120	122452	15.759	ppbv	97
65) tert-Butylbenzene	11.536	119	443042	15.562	ppbv	97
66) Benzyl Chloride	11.617	91	60376	18.348	ppbv	97
67) sec-Butylbenzene	11.769	105	632600	15.636	ppbv	100
69) p-Isopropyltoluene	11.928	119	539860	15.837	ppbv	99
70) n-Butylbenzene	12.284	91	566780	16.084	ppbv	99
71) 2-Chlorotoluene	10.905	91	394227	15.755	ppbv	100
72) 4-Ethyltoluene	11.128	105	423746	16.250	ppbv	99
73) 1,3,5-Trimethylbenzene	11.206	105	362951	15.826	ppbv	96
74) 1,2,4-Trimethylbenzene	11.539	105	407416	14.683	ppbv	96
75) 1,3-Dichlorobenzene	11.610	146	225215	14.579	ppbv	98
76) 1,4-Dichlorobenzene	11.675	146	224505	15.357	ppbv	99
77) 1,2-Dichlorobenzene	11.950	146	216147	14.295	ppbv	99
78) Hexachloro-1,3-Butadiene	13.886	225	198112	13.121	ppbv	99
79) Naphthalene	13.517	128	392900	16.888	ppbv	98
80) Naphthalene,2-methyl-	14.459	142	316493	18.232	ppbv	99
81) 1,2,4-Trichlorobenzene	13.442	180	195942	15.728	ppbv	97

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

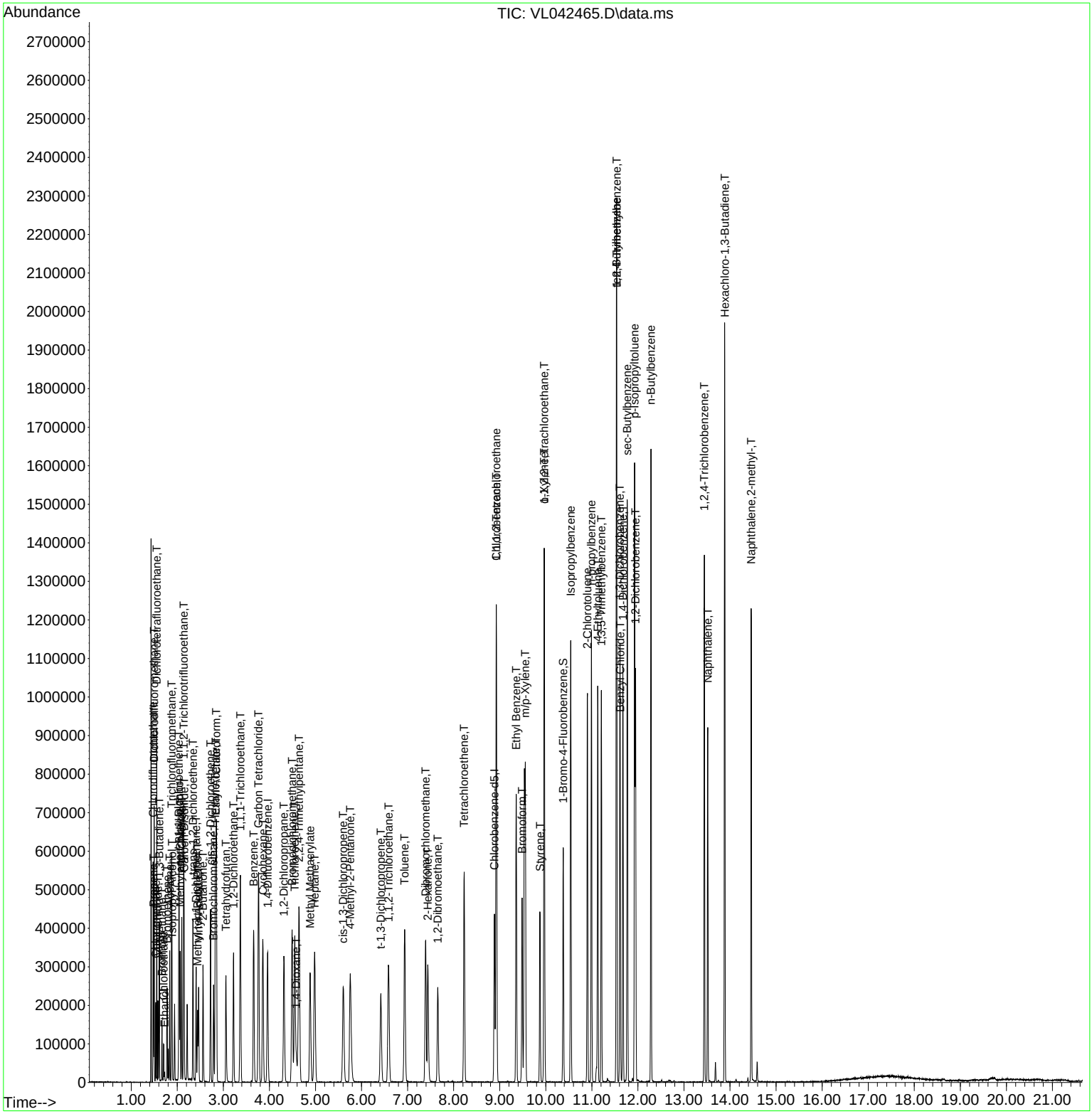
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050125\
Data File : VL042465.D
Acq On : 01 May 2025 12:49
Operator : SY/MD
Sample : VSTDICC015
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

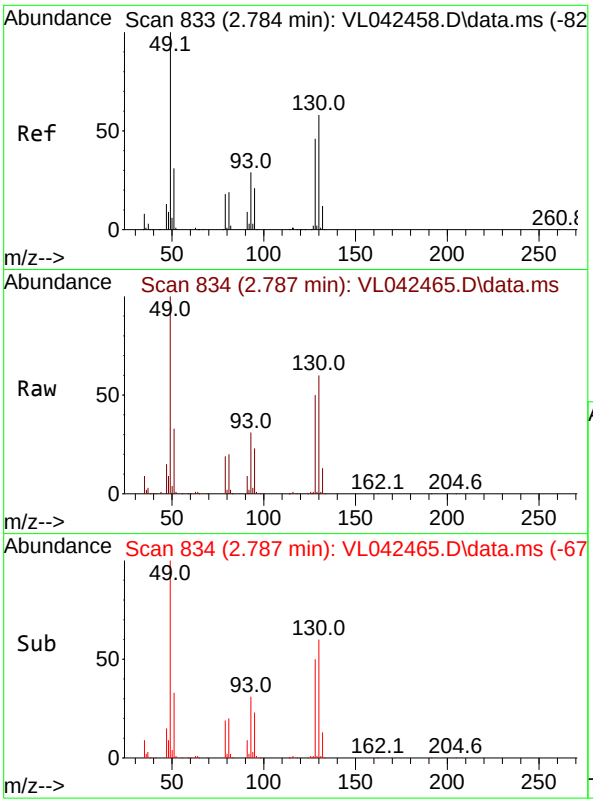
Quant Time: May 02 01:45:25 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri May 02 01:37:48 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

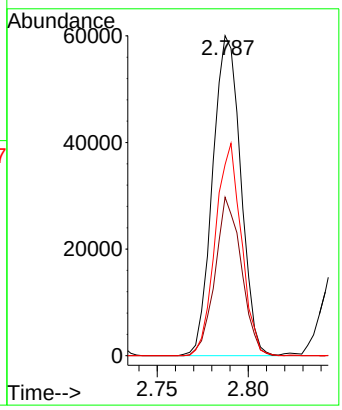




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042465.D
Acq: 01 May 2025 12:49

Tgt Ion: 49 Resp: 6431

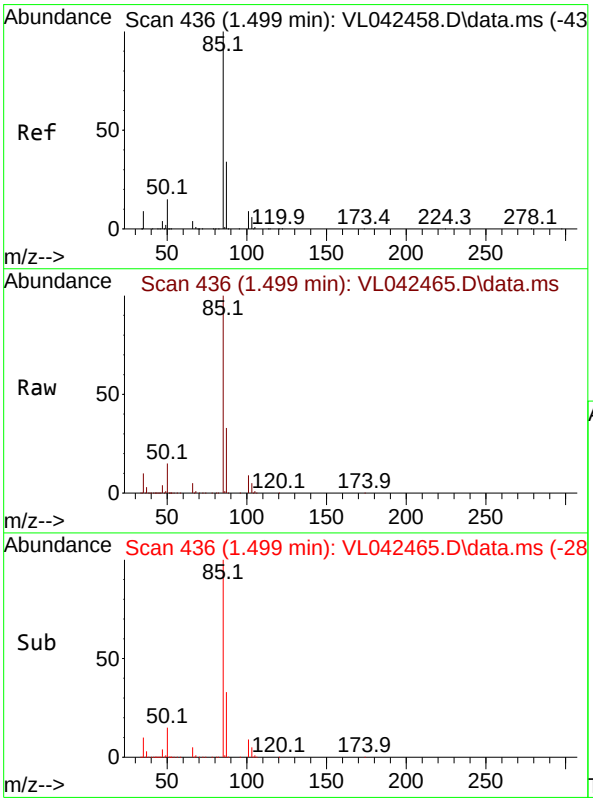
Ion	Ratio	Lower	Upper
49	100		
128	46.3	23.3	69.9
130	61.4	29.5	88.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

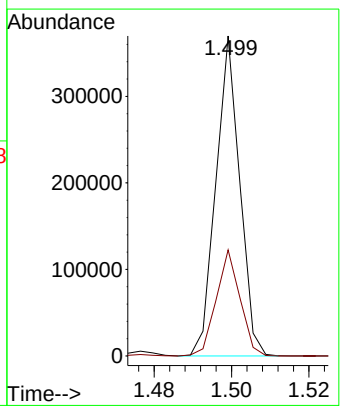
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

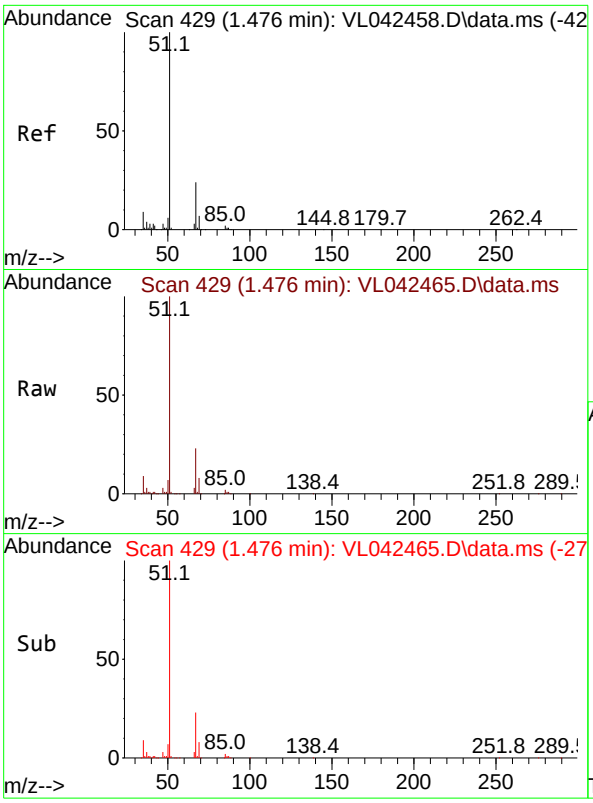


#2
Dichlorodifluoromethane
Concen: 14.852 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.000 min
Lab File: VL042465.D
Acq: 01 May 2025 12:49

Tgt Ion: 85 Resp: 158069

Ion	Ratio	Lower	Upper
85	100		
87	33.2	26.9	40.3

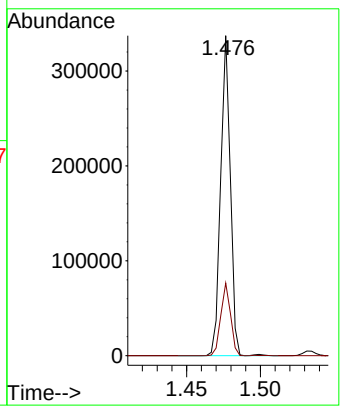




#3
Chlorodifluoromethane
Concen: 13.735 ppbv
RT: 1.476 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042465.D
Acq: 01 May 2025 12:49

Tgt Ion: 51 Resp: 15455

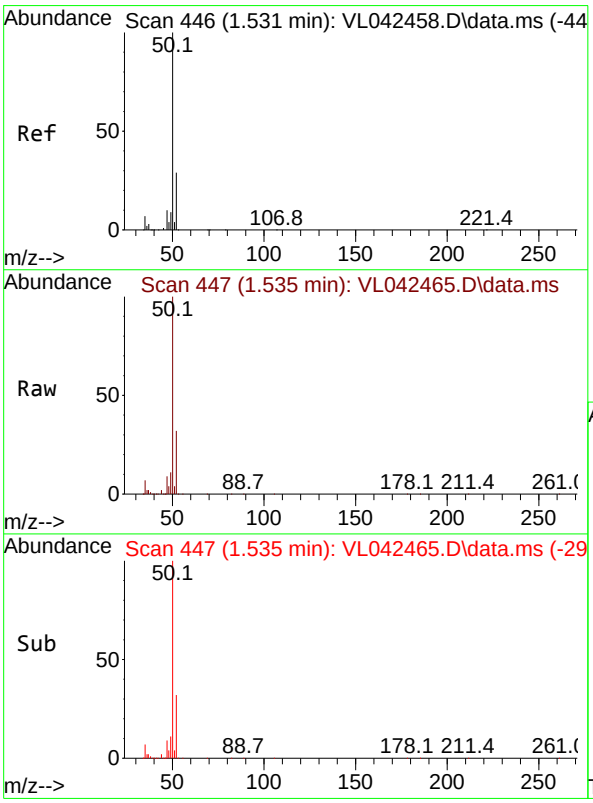
Ion	Ratio	Lower	Upper
51	100		
67	23.1	18.4	27.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

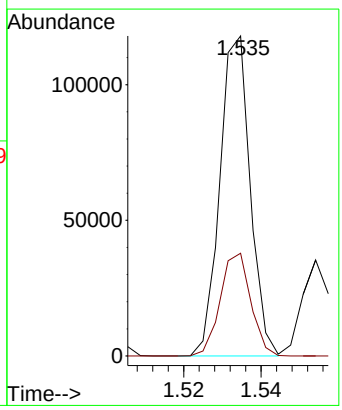
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

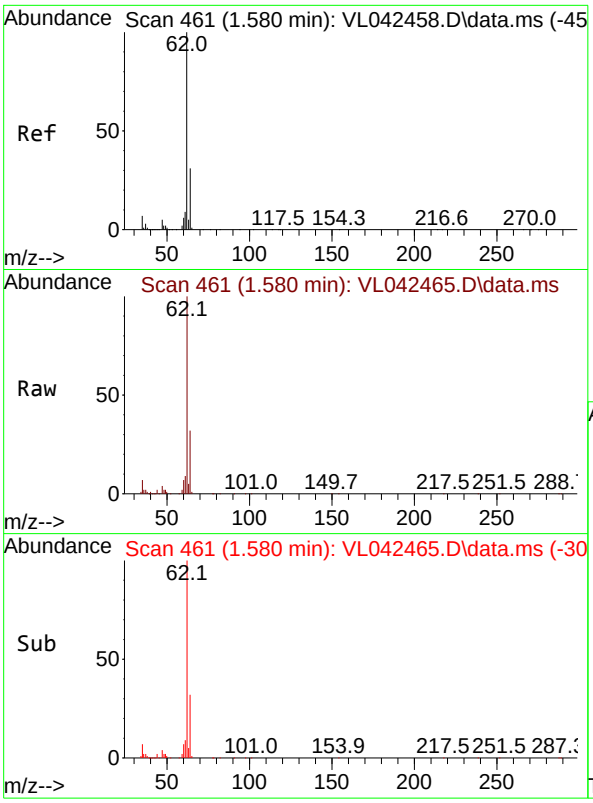


#4
Chloromethane
Concen: 14.447 ppbv
RT: 1.535 min Scan# 447
Delta R.T. 0.004 min
Lab File: VL042465.D
Acq: 01 May 2025 12:49

Tgt Ion: 50 Resp: 64267

Ion	Ratio	Lower	Upper
50	100		
52	32.1	23.5	35.3

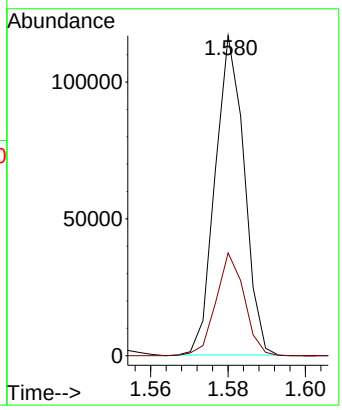




#5
Vinyl Chloride
Concen: 13.592 ppbv
RT: 1.580 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042465.D
Acq: 01 May 2025 12:49

Tgt Ion: 62 Resp: 6087

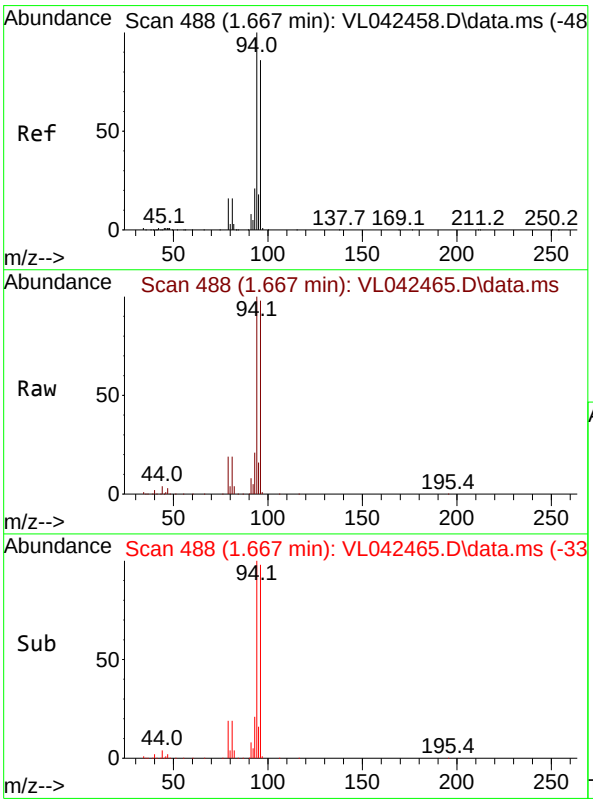
Ion	Ratio	Lower	Upper
62	100		
64	32.1	24.9	37.3



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

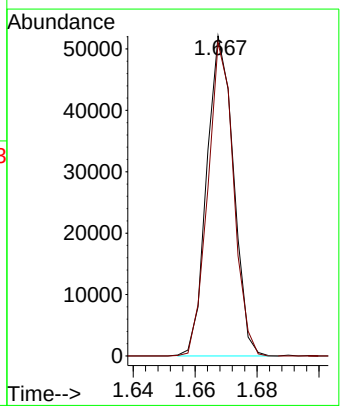
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

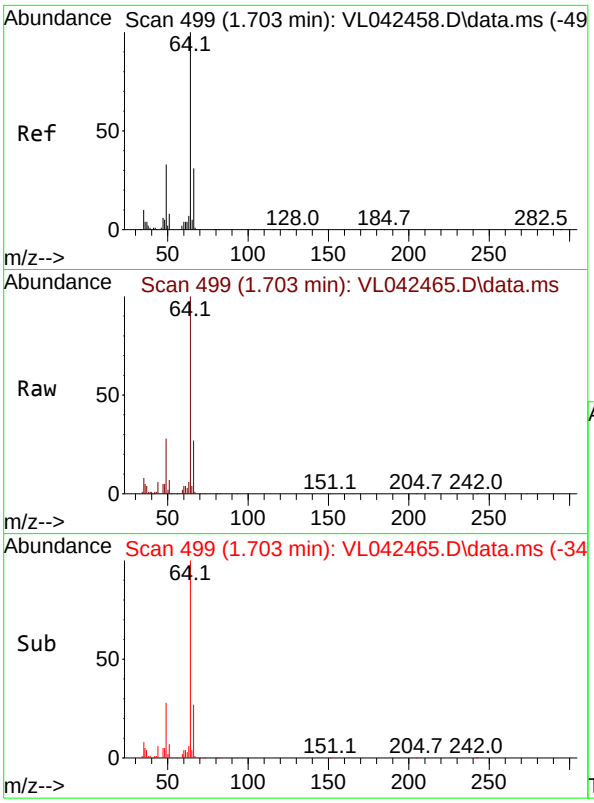


#6
Bromomethane
Concen: 14.766 ppbv
RT: 1.667 min Scan# 488
Delta R.T. 0.000 min
Lab File: VL042465.D
Acq: 01 May 2025 12:49

Tgt Ion: 94 Resp: 31246

Ion	Ratio	Lower	Upper
94	100		
96	97.9	68.8	103.2

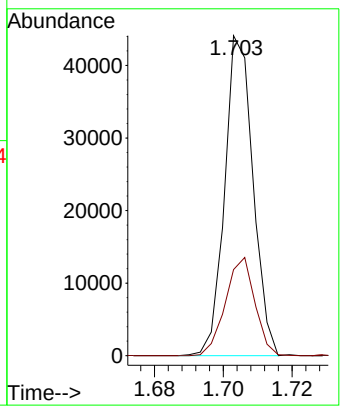




#7
Chloroethane
Concen: 15.227 ppbv
RT: 1.703 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042465.D
Acq: 01 May 2025 12:49

Tgt Ion: 64 Resp: 2518

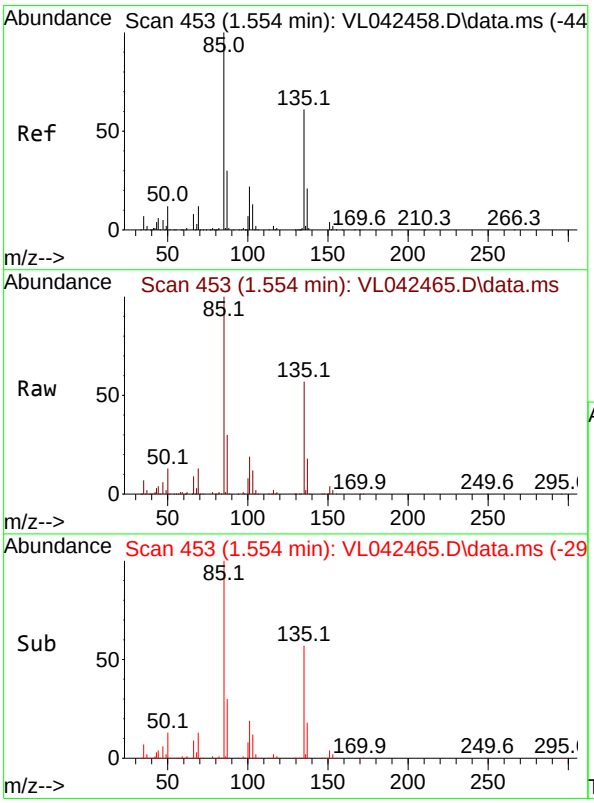
Ion	Ratio	Lower	Upper
64	100		
66	26.9	25.0	37.4



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

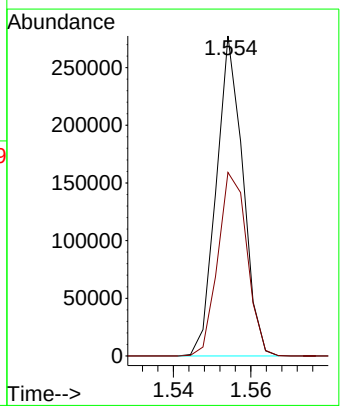
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

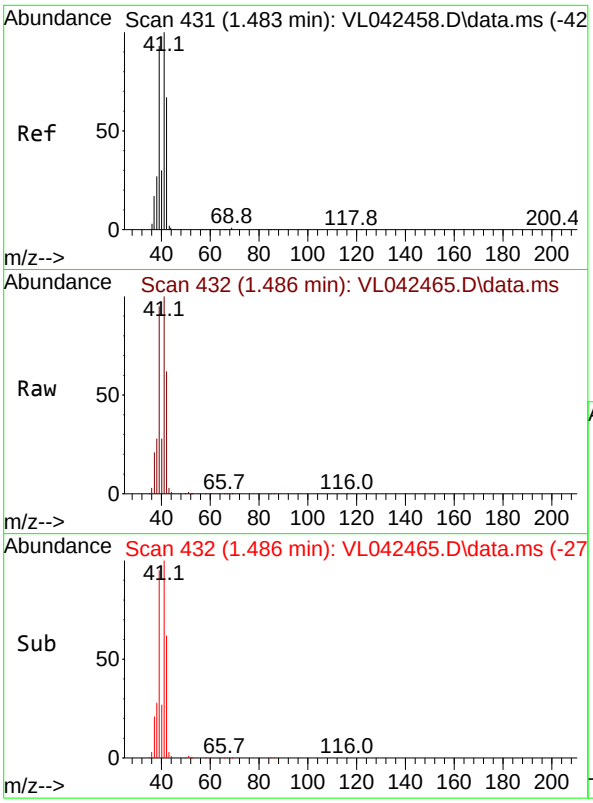


#8
Dichlorotetrafluoroethane
Concen: 15.044 ppbv
RT: 1.554 min Scan# 453
Delta R.T. 0.000 min
Lab File: VL042465.D
Acq: 01 May 2025 12:49

Tgt Ion: 85 Resp: 131995

Ion	Ratio	Lower	Upper
85	100		
135	63.1	49.8	74.8

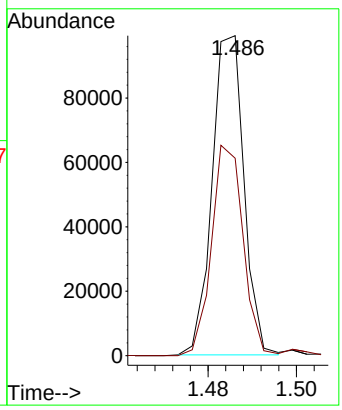




#9
Propene
Concen: 13.489 ppbv
RT: 1.486 min Scan# 4
Delta R.T. 0.004 min
Lab File: VL042465.D
Acq: 01 May 2025 12:49

Tgt Ion: 41 Resp: 4964

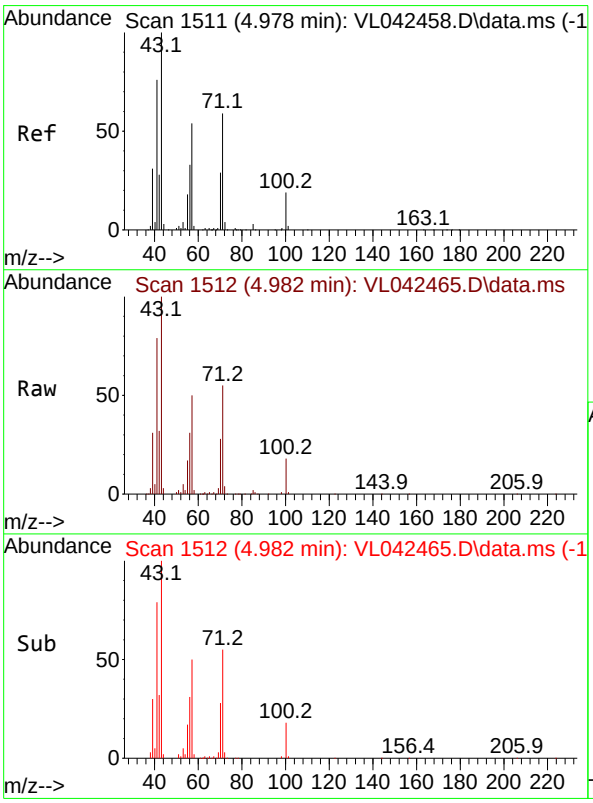
Ion	Ratio	Lower	Upper
41	100		
42	66.7	54.3	81.5



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

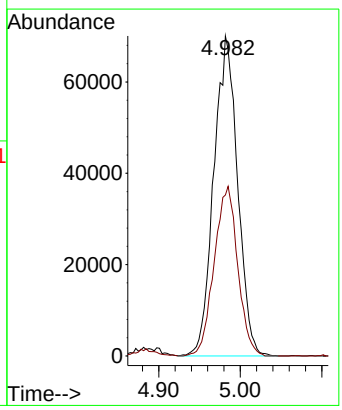
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

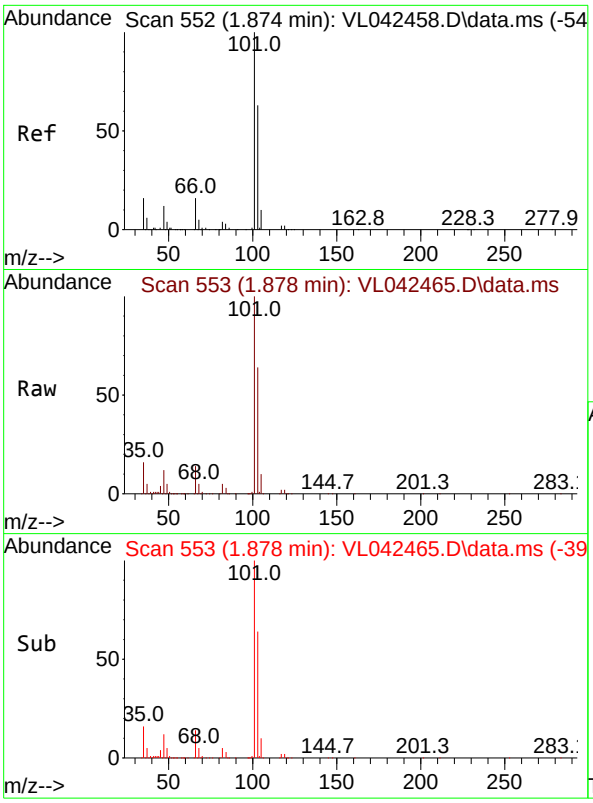


#10
Heptane
Concen: 14.898 ppbv
RT: 4.982 min Scan# 1512
Delta R.T. 0.004 min
Lab File: VL042465.D
Acq: 01 May 2025 12:49

Tgt Ion: 43 Resp: 142235

Ion	Ratio	Lower	Upper
43	100		
57	52.4	41.8	62.8

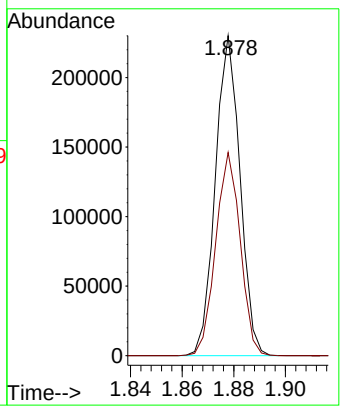




#11
Trichlorofluoromethane
Concen: 16.082 ppbv
RT: 1.878 min Scan# 5
Delta R.T. 0.004 min
Lab File: VL042465.D
Acq: 01 May 2025 12:49

Tgt Ion:101 Resp: 15265

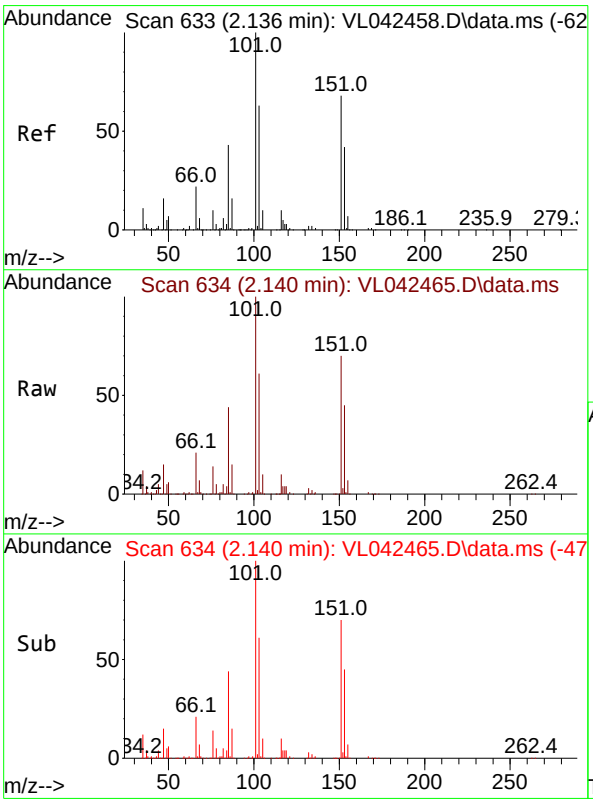
Ion	Ratio	Lower	Upper
101	100		
103	63.5	50.6	76.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

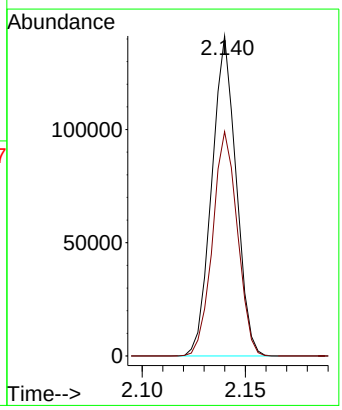
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

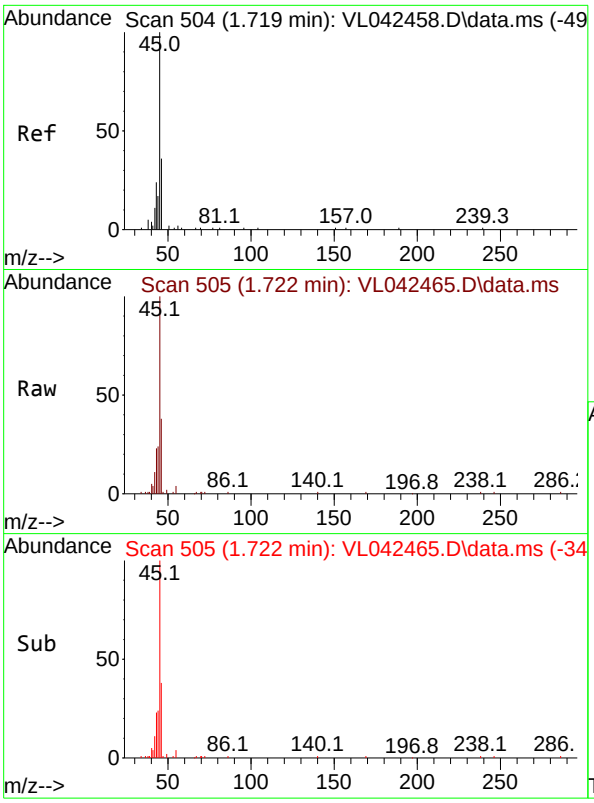


#12
1,1,2-Trichlorotrifluoroethane
Concen: 14.775 ppbv
RT: 2.140 min Scan# 634
Delta R.T. 0.004 min
Lab File: VL042465.D
Acq: 01 May 2025 12:49

Tgt Ion:101 Resp: 115855

Ion	Ratio	Lower	Upper
101	100		
151	71.4	54.6	82.0

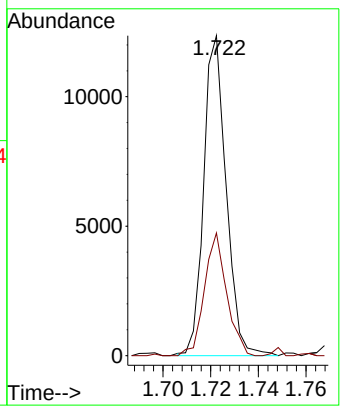




#13
Ethanol
Concen: 10.832 ppbv
RT: 1.722 min Scan# 5
Delta R.T. 0.004 min
Lab File: VL042465.D
Acq: 01 May 2025 12:49

Tgt Ion: 45 Resp: 809

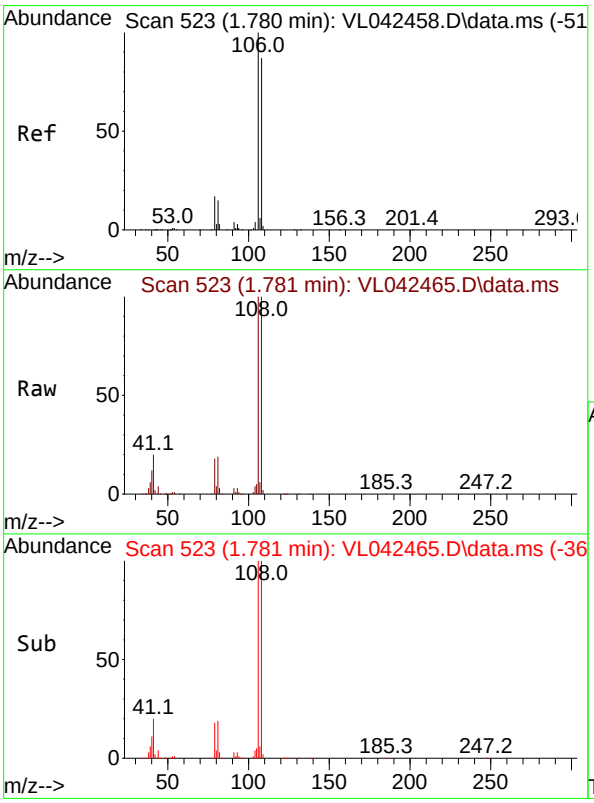
Ion	Ratio	Lower	Upper
45	100		
46	39.5	15.3	61.1



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

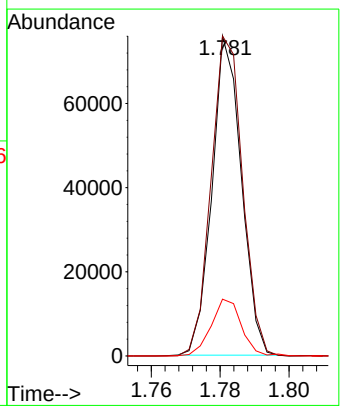
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

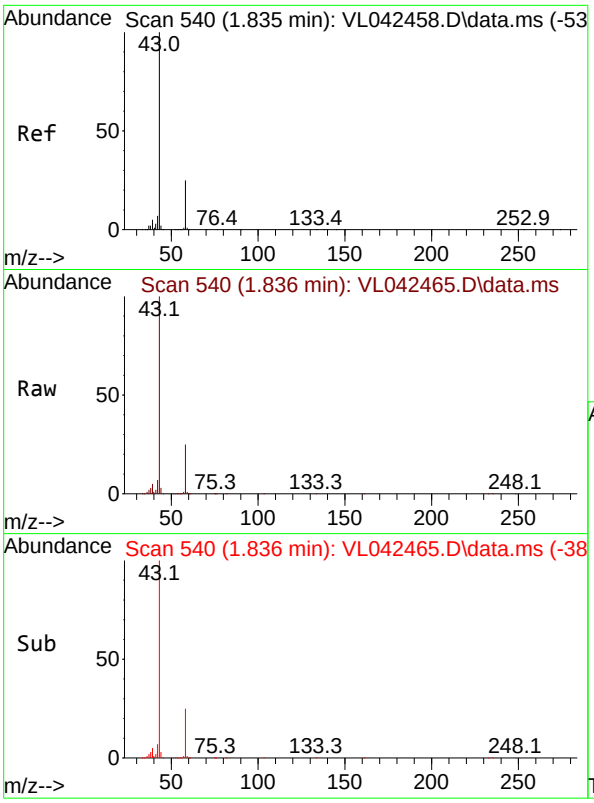


#14
Bromoethene
Concen: 15.519 ppbv
RT: 1.781 min Scan# 523
Delta R.T. 0.000 min
Lab File: VL042465.D
Acq: 01 May 2025 12:49

Tgt Ion:108 Resp: 44928

Ion	Ratio	Lower	Upper
108	100		
106	107.6	88.8	133.2
79	18.7	17.1	25.7

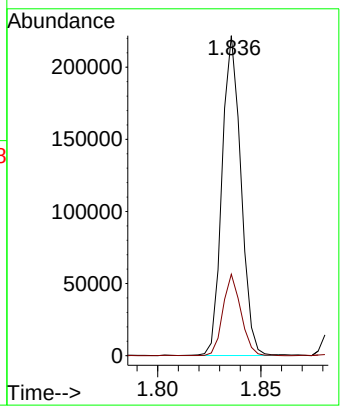




#15
Acetone
Concen: 12.036 ppbv
RT: 1.836 min Scan# 54
Delta R.T. 0.000 min
Lab File: VL042465.D
Acq: 01 May 2025 12:49

Tgt Ion: 43 Resp: 14130

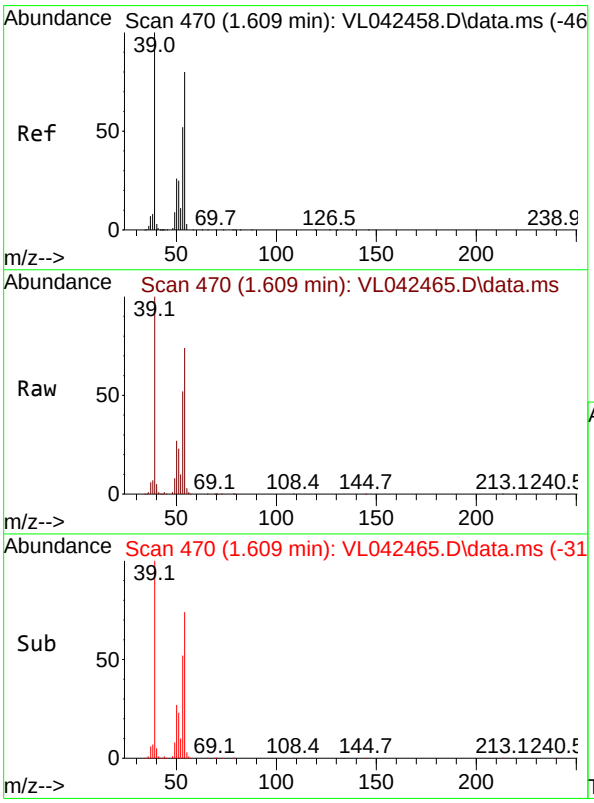
Ion	Ratio	Lower	Upper
43	100		
58	24.3	19.8	29.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

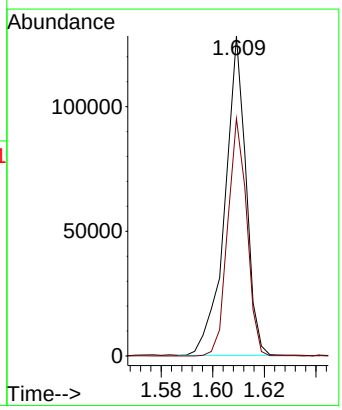
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

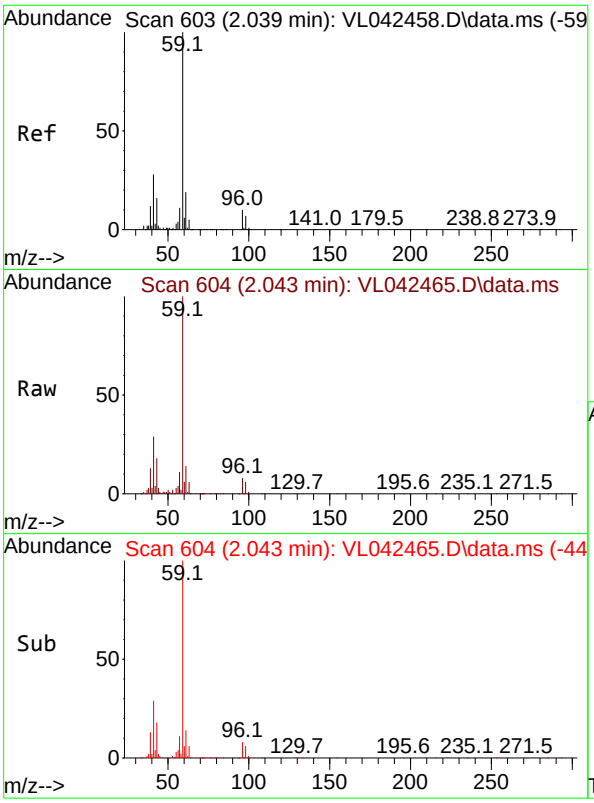


#16
1,3-Butadiene
Concen: 13.992 ppbv
RT: 1.609 min Scan# 470
Delta R.T. 0.000 min
Lab File: VL042465.D
Acq: 01 May 2025 12:49

Tgt Ion: 39 Resp: 72455

Ion	Ratio	Lower	Upper
39	100		
54	67.3	55.2	82.8

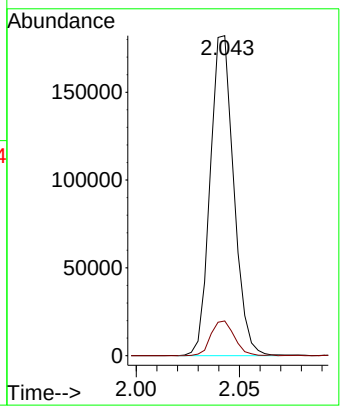




#17
tert-Butyl alcohol
Concen: 14.012 ppbv
RT: 2.043 min Scan# 6
Delta R.T. 0.004 min
Lab File: VL042465.D
Acq: 01 May 2025 12:49

Tgt Ion: 59 Resp: 14493

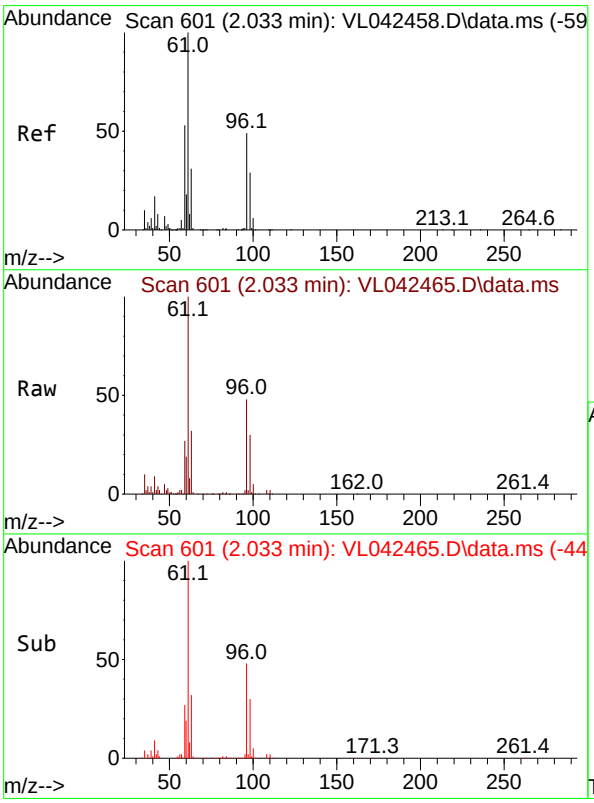
Ion	Ratio	Lower	Upper
59	100		
57	10.9	8.3	12.5



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

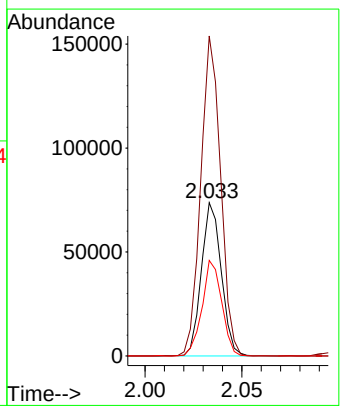
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

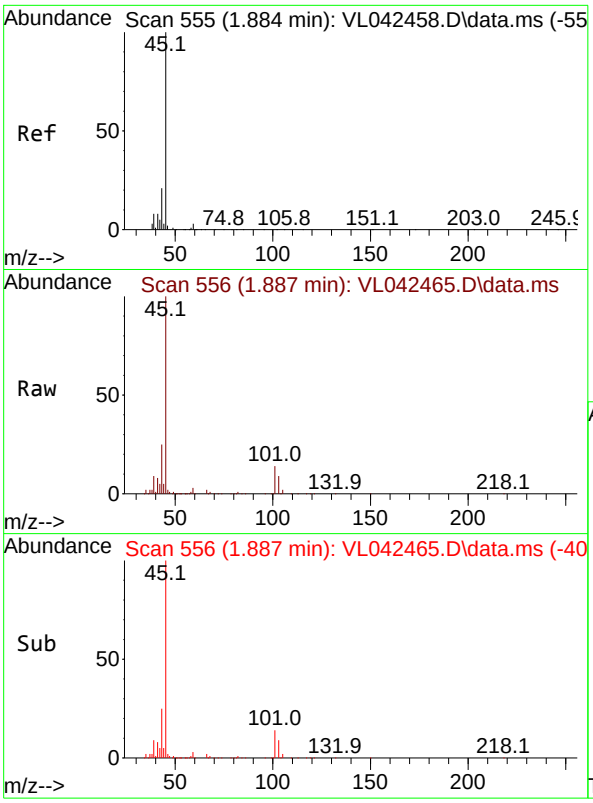


#18
1,1-Dichloroethene
Concen: 14.424 ppbv
RT: 2.033 min Scan# 601
Delta R.T. 0.000 min
Lab File: VL042465.D
Acq: 01 May 2025 12:49

Tgt Ion: 96 Resp: 52813

Ion	Ratio	Lower	Upper
96	100		
61	208.7	164.9	247.3
98	62.3	48.2	72.2

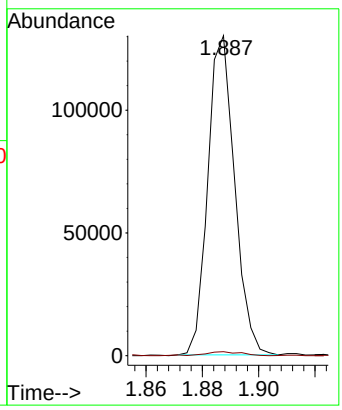




#19
Isopropyl Alcohol
Concen: 13.235 ppbv
RT: 1.887 min Scan# 5
Delta R.T. 0.004 min
Lab File: VL042465.D
Acq: 01 May 2025 12:49

Tgt Ion: 45 Resp: 8600

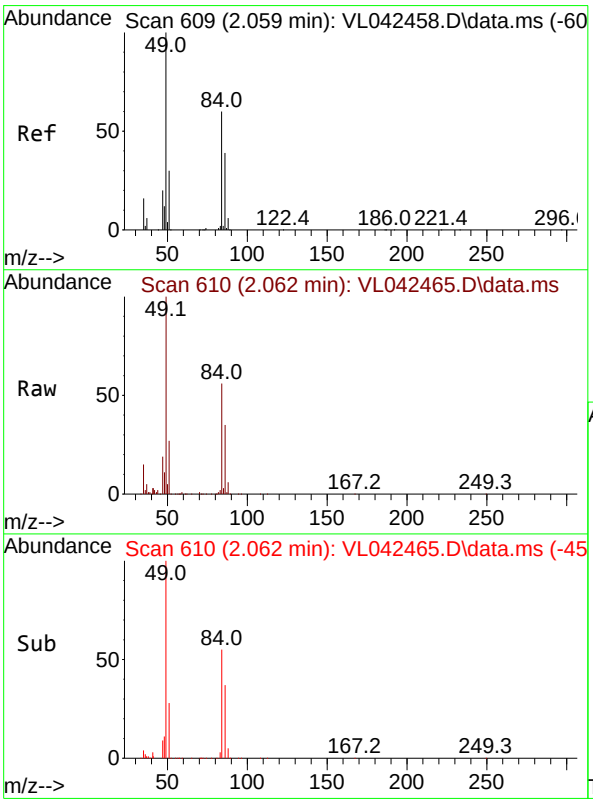
Ion	Ratio	Lower	Upper
45	100		
58	40.0	1.6	2.4



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

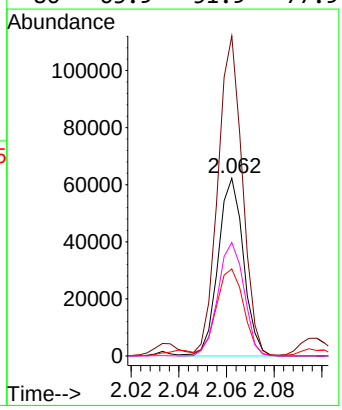
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

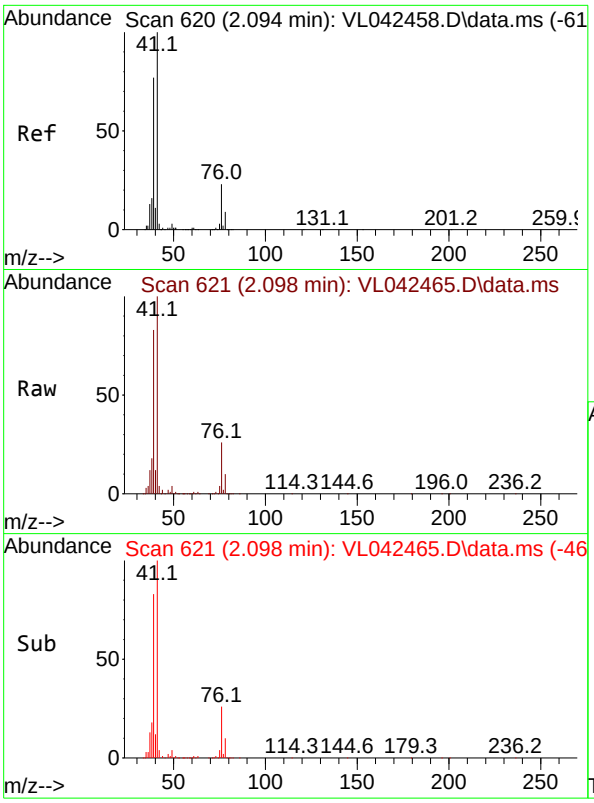


#20
Methylene Chloride
Concen: 13.050 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.004 min
Lab File: VL042465.D
Acq: 01 May 2025 12:49

Tgt Ion: 84 Resp: 46063

Ion	Ratio	Lower	Upper
84	100		
49	179.6	133.9	200.9
51	48.7	41.0	61.6
86	63.9	51.9	77.9

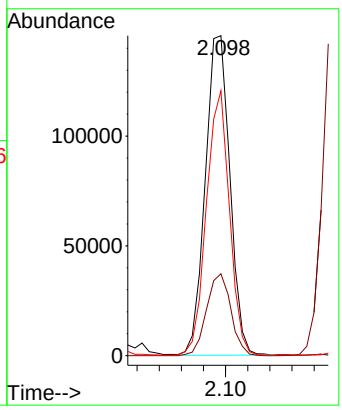




#21
Allyl Chloride
Concen: 14.893 ppbv
RT: 2.098 min Scan# 6
Delta R.T. 0.004 min
Lab File: VL042465.D
Acq: 01 May 2025 12:49

Tgt Ion: 41 Resp: 11245

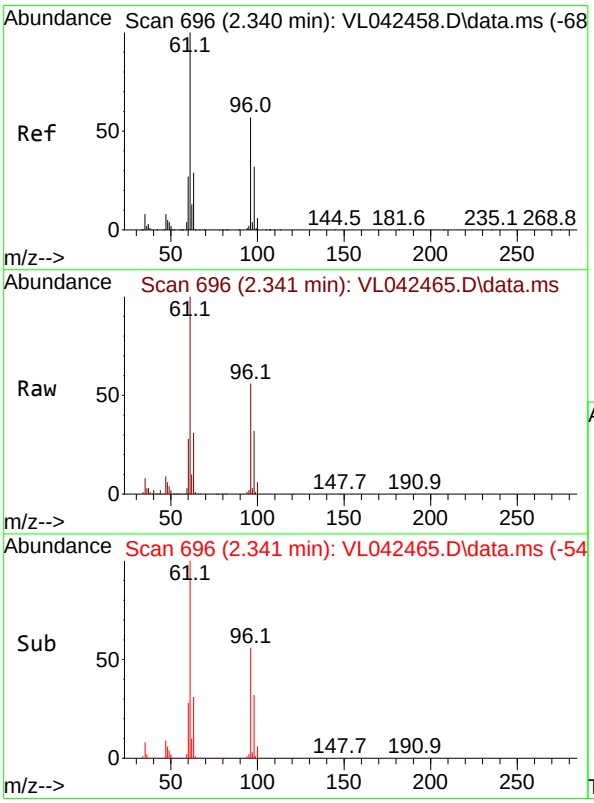
Ion	Ratio	Lower	Upper
41	100		
76	25.3	19.6	29.4
39	77.4	61.0	91.4



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

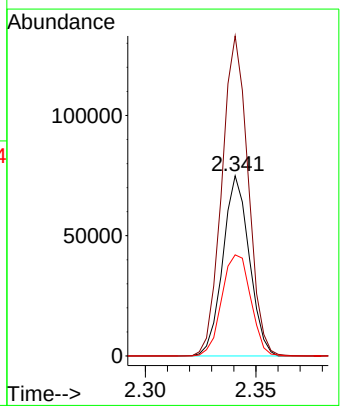
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

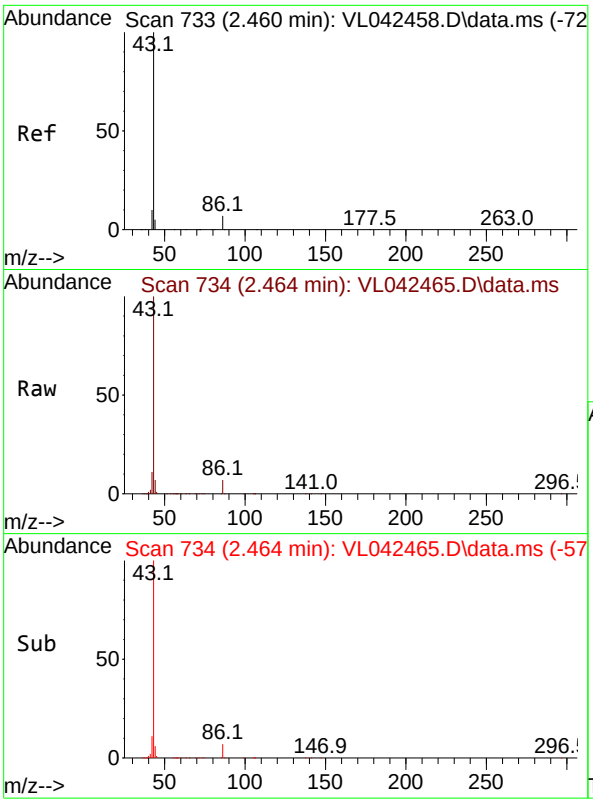


#22
trans-1,2-Dichloroethene
Concen: 14.534 ppbv
RT: 2.341 min Scan# 696
Delta R.T. 0.000 min
Lab File: VL042465.D
Acq: 01 May 2025 12:49

Tgt Ion: 96 Resp: 62153

Ion	Ratio	Lower	Upper
96	100		
61	177.5	141.8	212.6
98	56.1	45.0	67.6

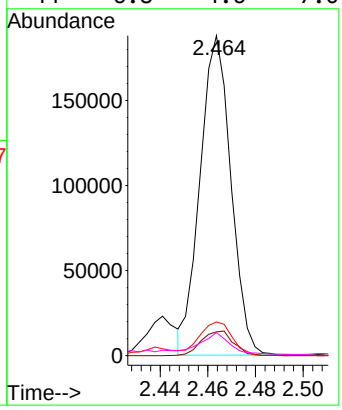




#23
Vinyl Acetate
Concen: 15.489 ppbv
RT: 2.464 min Scan# 7
Delta R.T. 0.004 min
Lab File: VL042465.D
Acq: 01 May 2025 12:49

Tgt Ion: 43 Resp: 16941

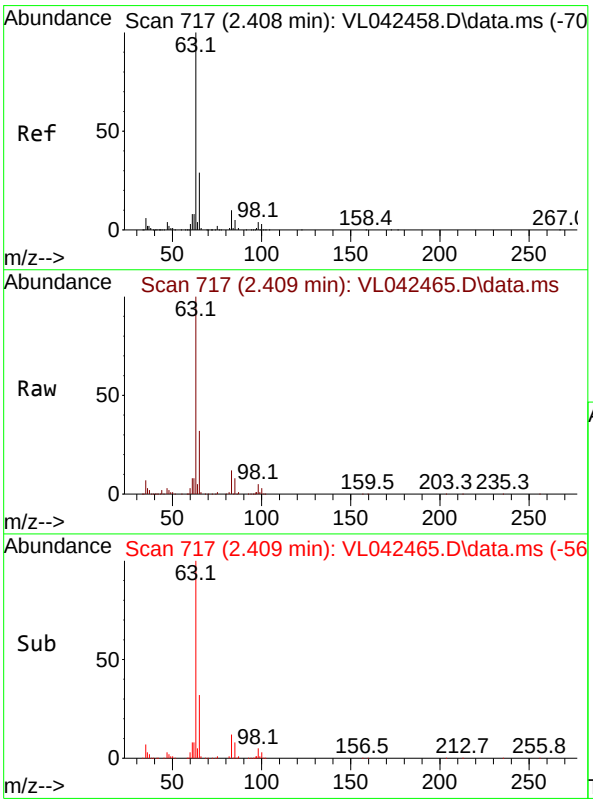
Ion	Ratio	Lower	Upper
43	100		
86	7.4	5.5	8.3
42	10.5	8.3	12.5
44	6.8	4.6	7.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

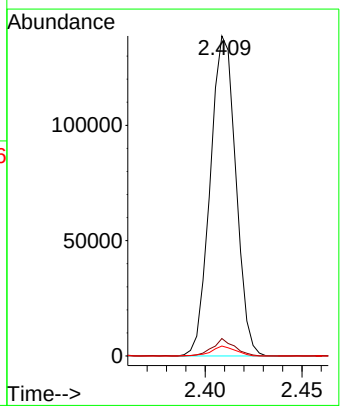
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

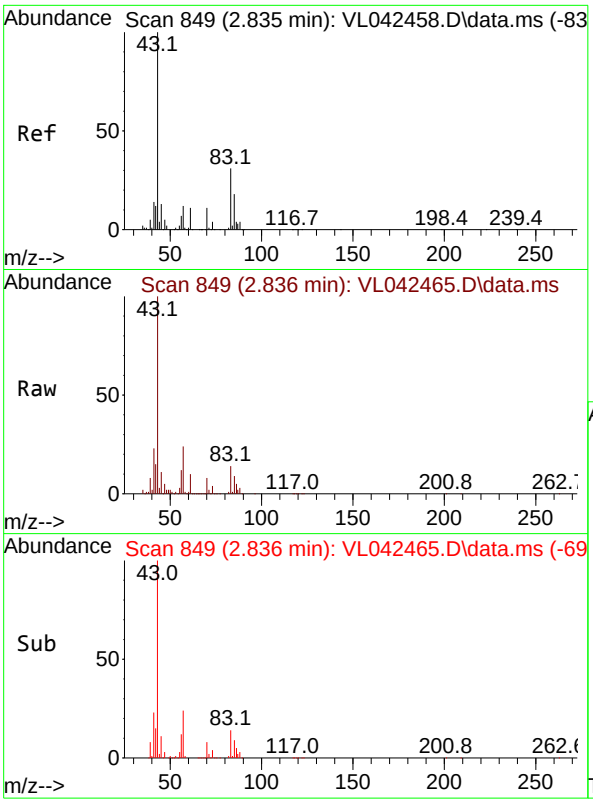


#24
1,1-Dichloroethane
Concen: 14.622 ppbv
RT: 2.409 min Scan# 717
Delta R.T. 0.000 min
Lab File: VL042465.D
Acq: 01 May 2025 12:49

Tgt Ion: 63 Resp: 127567

Ion	Ratio	Lower	Upper
63	100		
98	5.4	1.8	5.5
100	3.1	1.4	4.2

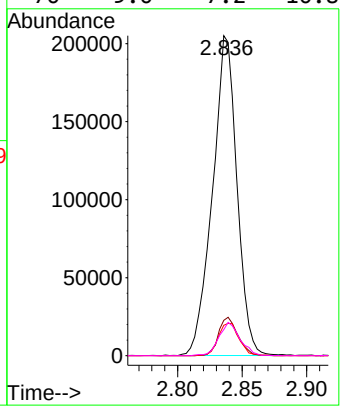




#25
Ethyl Acetate
Concen: 14.329 ppbv
RT: 2.836 min Scan# 84
Delta R.T. 0.000 min
Lab File: VL042465.D
Acq: 01 May 2025 12:49

Tgt Ion: 43 Resp: 26937

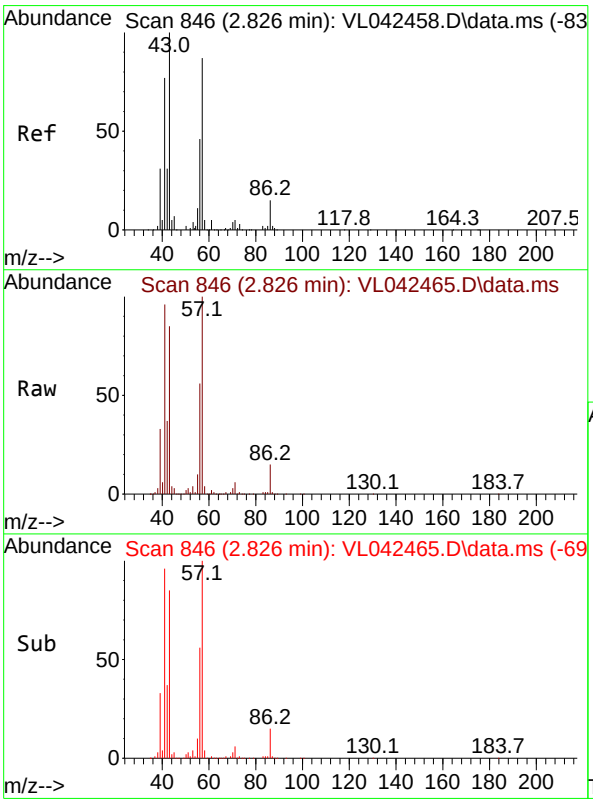
Ion	Ratio	Lower	Upper
43	100		
45	9.6	7.8	11.6
61	8.6	7.2	10.8
70	9.0	7.2	10.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

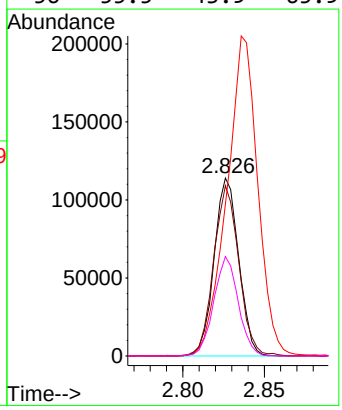
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

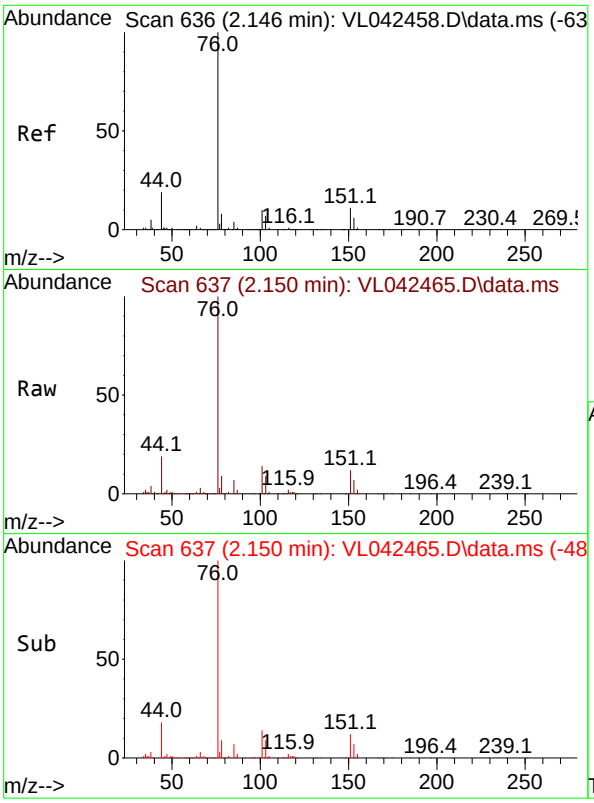


#26
Hexane
Concen: 14.598 ppbv
RT: 2.826 min Scan# 846
Delta R.T. 0.000 min
Lab File: VL042465.D
Acq: 01 May 2025 12:49

Tgt Ion: 57 Resp: 119552

Ion	Ratio	Lower	Upper
57	100		
41	98.3	77.8	116.8
43	226.6	187.0	280.6
56	55.5	43.9	65.9





#27
Carbon Disulfide
Concen: 15.722 ppbv
RT: 2.150 min Scan# 6
Delta R.T. 0.004 min
Lab File: VL042465.D
Acq: 01 May 2025 12:49

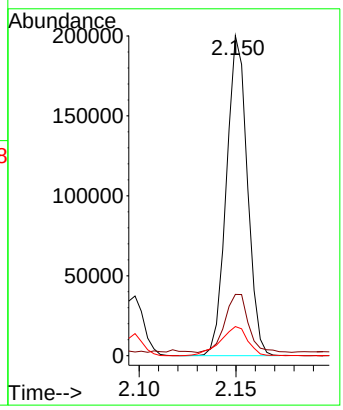
Tgt Ion: 76 Resp: 15025

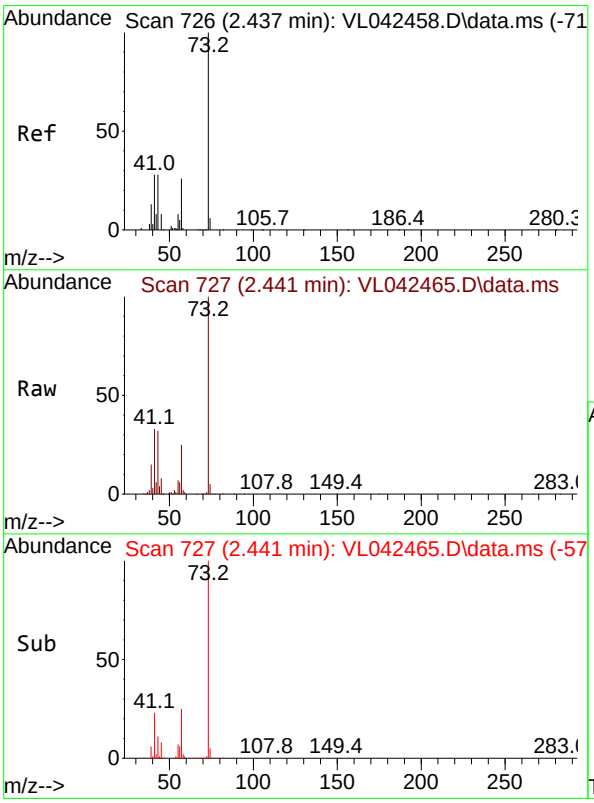
Ion	Ratio	Lower	Upper
76	100		
44	21.0	21.0	31.6
78	11.9	8.6	13.0

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

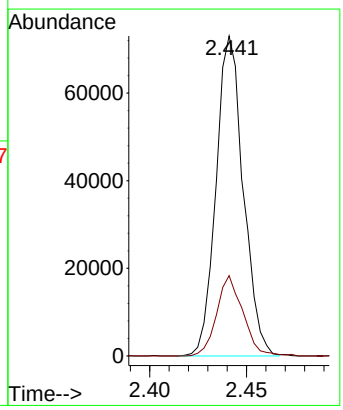


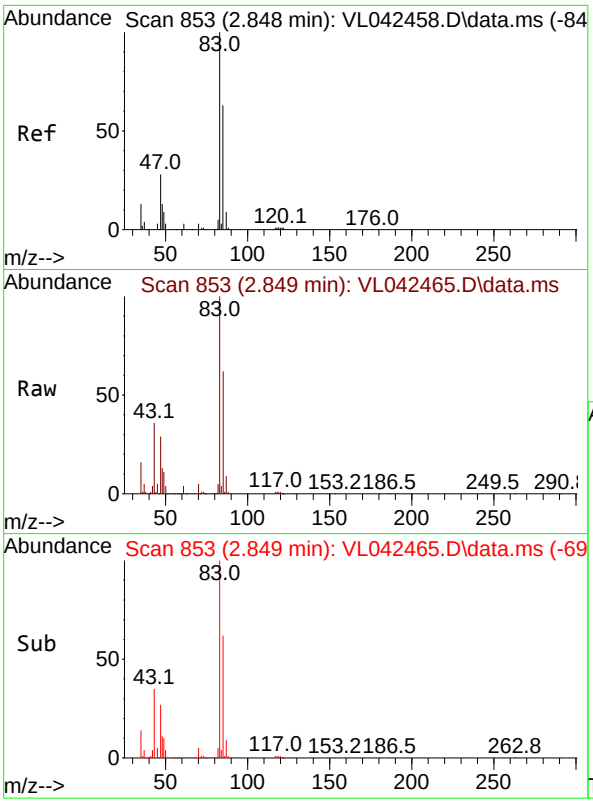


#28
Methyl tert-Butyl Ether
Concen: 14.500 ppbv
RT: 2.441 min Scan# 727
Delta R.T. 0.004 min
Lab File: VL042465.D
Acq: 01 May 2025 12:49

Tgt Ion: 73 Resp: 71341

Ion	Ratio	Lower	Upper
73	100		
57	24.2	19.9	29.9

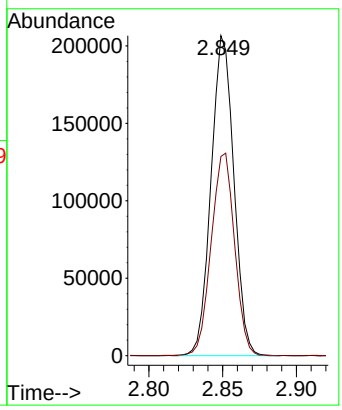




#29
Chloroform
Concen: 14.464 ppbv
RT: 2.849 min Scan# 8
Delta R.T. 0.000 min
Lab File: VL042465.D
Acq: 01 May 2025 12:49

Tgt Ion: 83 Resp: 22197

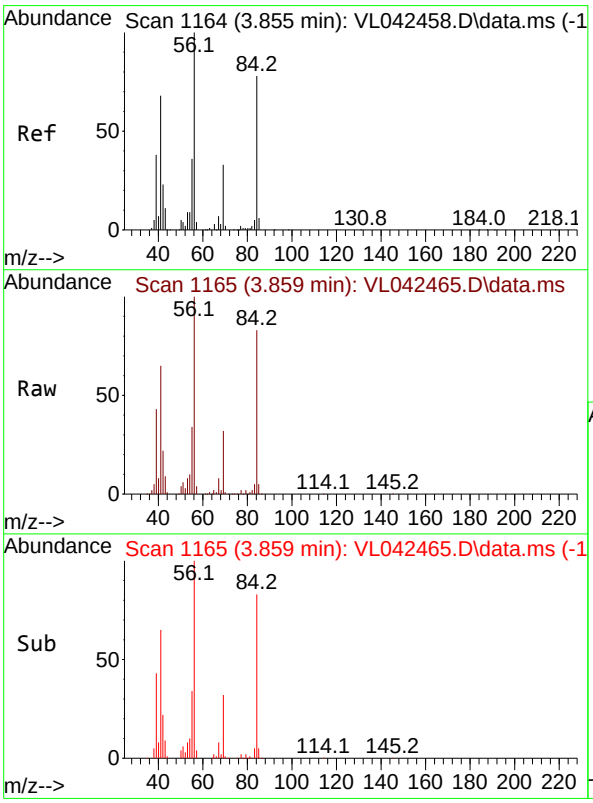
Ion	Ratio	Lower	Upper
83	100		
85	62.3	50.4	75.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

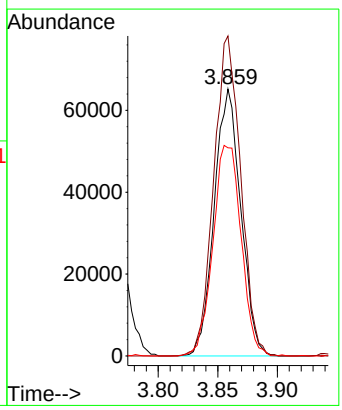
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

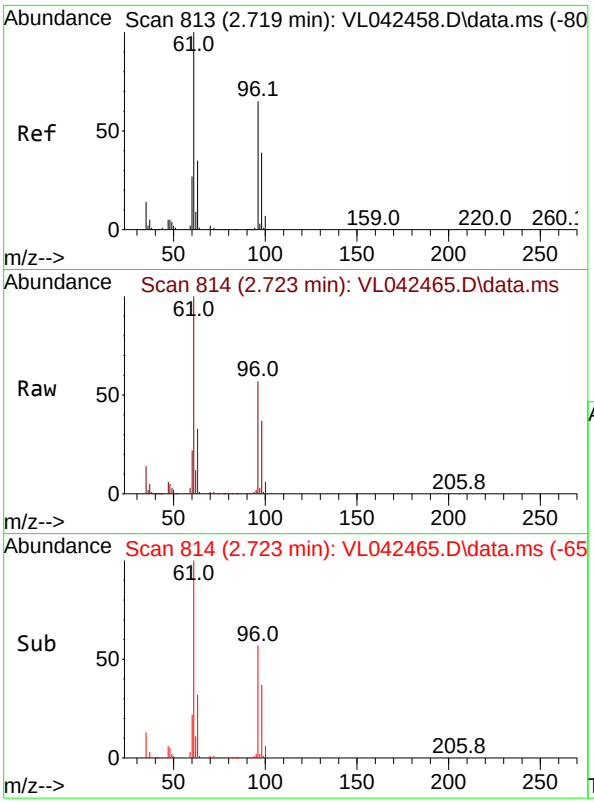


#30
Cyclohexane
Concen: 14.771 ppbv
RT: 3.859 min Scan# 1165
Delta R.T. 0.004 min
Lab File: VL042465.D
Acq: 01 May 2025 12:49

Tgt Ion: 84 Resp: 101146

Ion	Ratio	Lower	Upper
84	100		
56	121.4	98.1	147.1
41	83.9	65.8	98.8

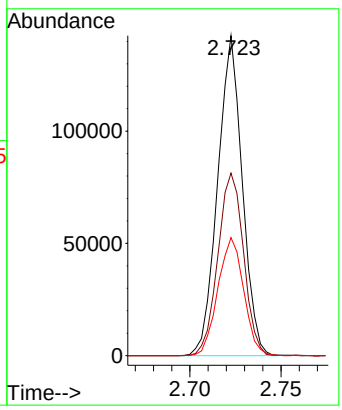




#31
cis-1,2-Dichloroethene
Concen: 13.997 ppbv
RT: 2.723 min Scan# 8
Delta R.T. 0.004 min
Lab File: VL042465.D
Acq: 01 May 2025 12:49

Tgt Ion: 61 Resp: 13373

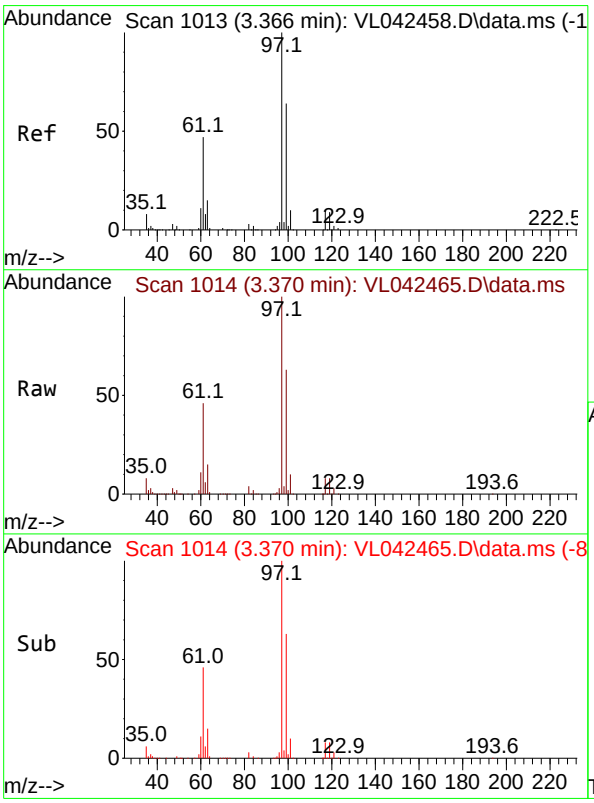
Ion	Ratio	Lower	Upper
61	100		
96	57.0	52.0	78.0
98	36.9	31.0	46.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

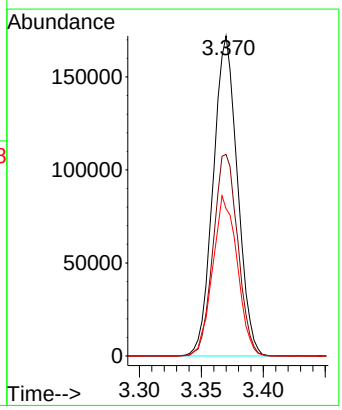
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

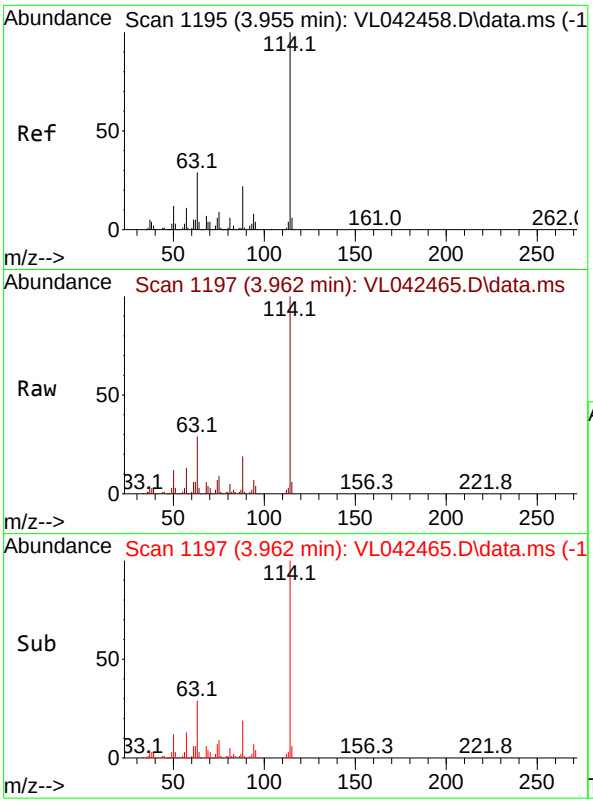


#32
1,1,1-Trichloroethane
Concen: 14.099 ppbv
RT: 3.370 min Scan# 1014
Delta R.T. 0.004 min
Lab File: VL042465.D
Acq: 01 May 2025 12:49

Tgt Ion: 97 Resp: 234752

Ion	Ratio	Lower	Upper
97	100		
99	63.9	50.7	76.1
61	50.8	40.9	61.3

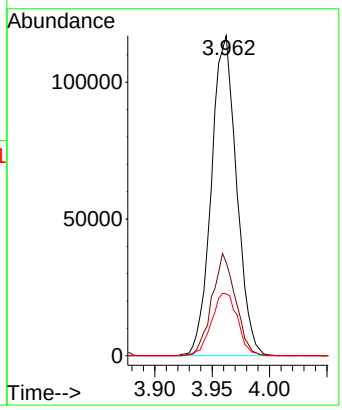




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.962 min Scan# 1
Delta R.T. 0.007 min
Lab File: VL042465.D
Acq: 01 May 2025 12:49

Tgt Ion:114 Resp: 17887

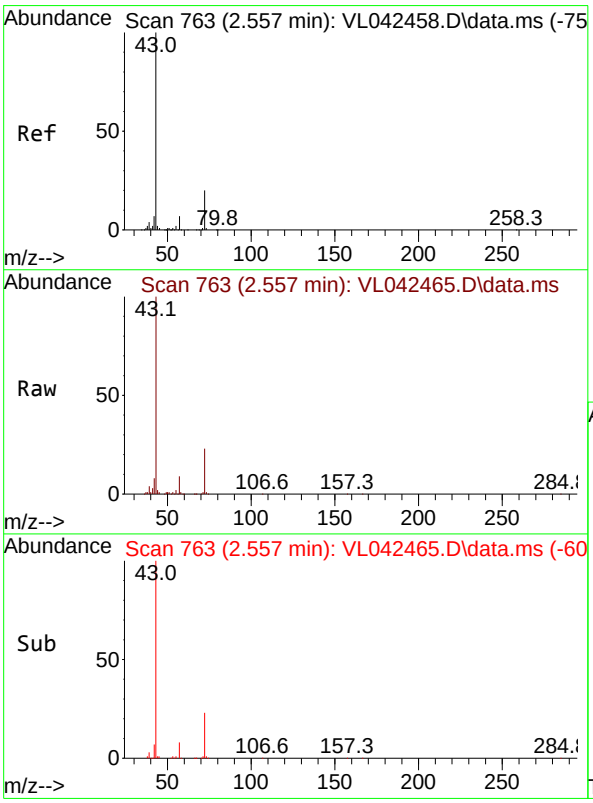
Ion	Ratio	Lower	Upper
114	100		
63	30.0	23.1	34.7
88	20.2	16.1	24.1



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

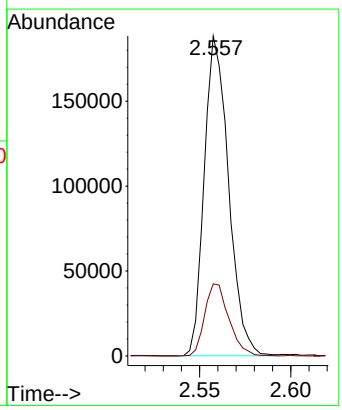
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

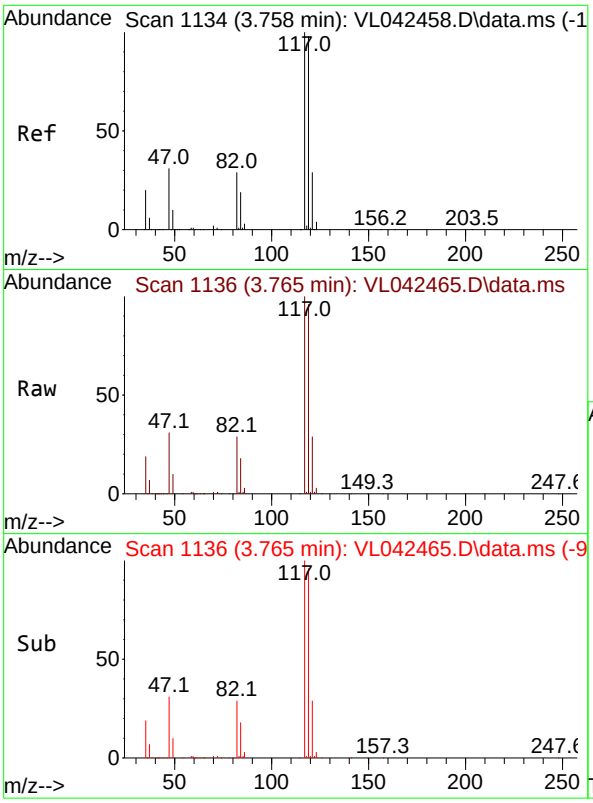


#34
2-Butanone
Concen: 13.488 ppbv
RT: 2.557 min Scan# 763
Delta R.T. 0.000 min
Lab File: VL042465.D
Acq: 01 May 2025 12:49

Tgt Ion: 43 Resp: 174521

Ion	Ratio	Lower	Upper
43	100		
72	22.5	16.7	25.1

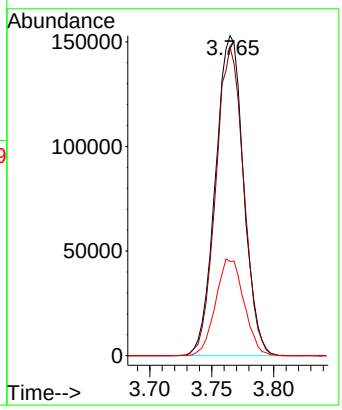




#35
Carbon Tetrachloride
Concen: 15.566 ppbv
RT: 3.765 min Scan# 1
Delta R.T. 0.007 min
Lab File: VL042465.D
Acq: 01 May 2025 12:49

Tgt Ion:117 Resp: 24214

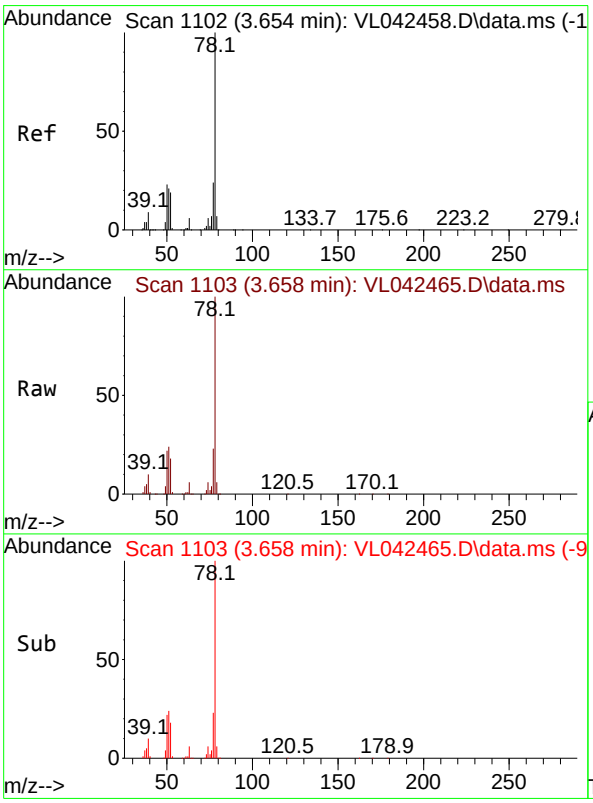
Ion	Ratio	Lower	Upper
117	100		
119	96.4	78.1	117.1
121	29.4	23.0	34.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

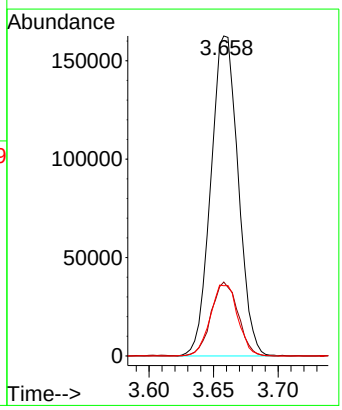
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

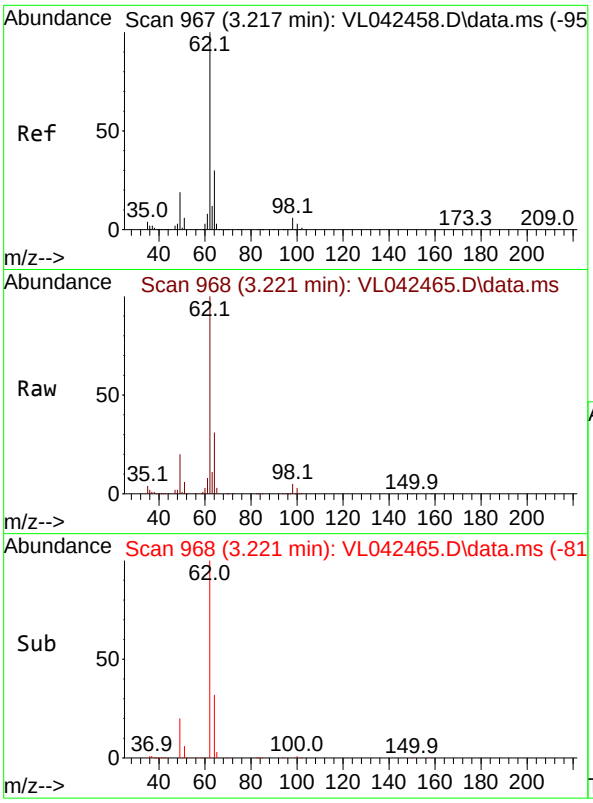


#36
Benzene
Concen: 14.179 ppbv
RT: 3.658 min Scan# 1103
Delta R.T. 0.004 min
Lab File: VL042465.D
Acq: 01 May 2025 12:49

Tgt Ion: 78 Resp: 239352

Ion	Ratio	Lower	Upper
78	100		
77	23.1	18.9	28.3
50	22.0	18.4	27.6

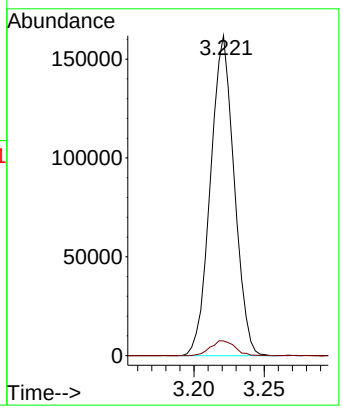




#37
1,2-Dichloroethane
Concen: 14.618 ppbv
RT: 3.221 min Scan# 9
Delta R.T. 0.004 min
Lab File: VL042465.D
Acq: 01 May 2025 12:49

Tgt Ion: 62 Resp: 19017

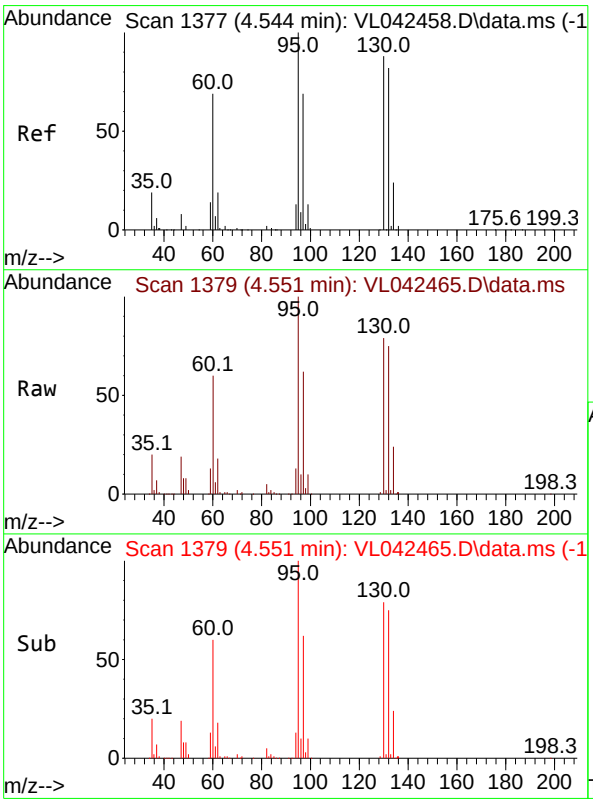
Ion	Ratio	Lower	Upper
62	100		
98	4.9	4.3	6.5



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

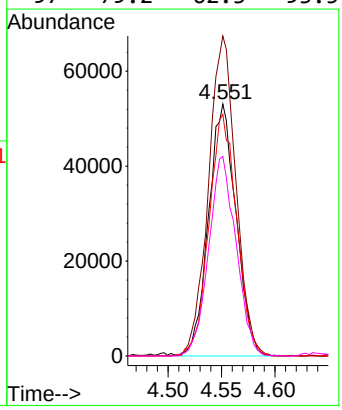
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

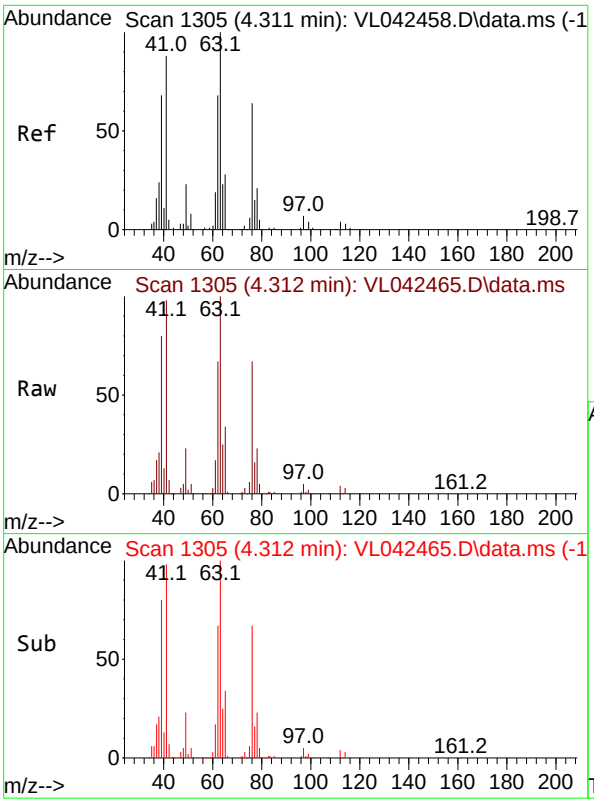


#38
Trichloroethene
Concen: 14.798 ppbv
RT: 4.551 min Scan# 1379
Delta R.T. 0.007 min
Lab File: VL042465.D
Acq: 01 May 2025 12:49

Tgt Ion:130 Resp: 95257

Ion	Ratio	Lower	Upper
130	100		
95	127.0	91.0	136.4
132	95.5	74.2	111.4
97	79.2	62.3	93.5

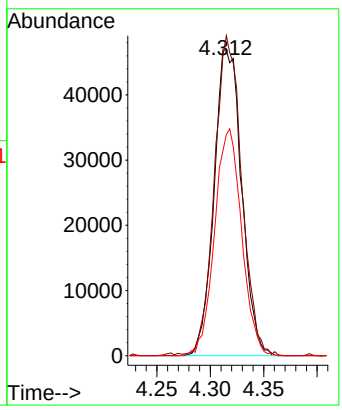




#39
1,2-Dichloropropane
Concen: 13.349 ppbv
RT: 4.312 min Scan# 1
Delta R.T. 0.000 min
Lab File: VL042465.D
Acq: 01 May 2025 12:49

Tgt Ion: 63 Resp: 8441

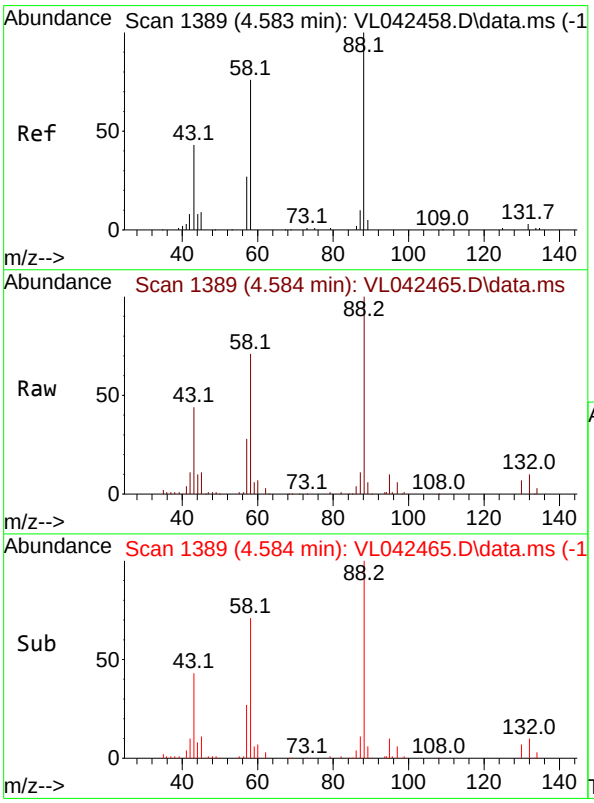
Ion	Ratio	Lower	Upper
63	100		
41	97.5	69.8	104.6
62	66.9	54.3	81.5



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

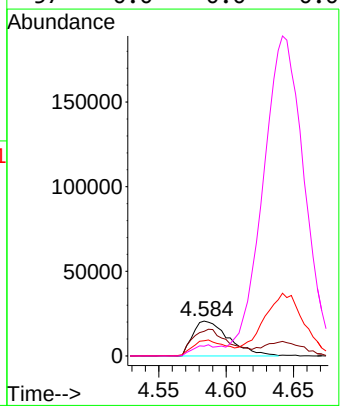
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

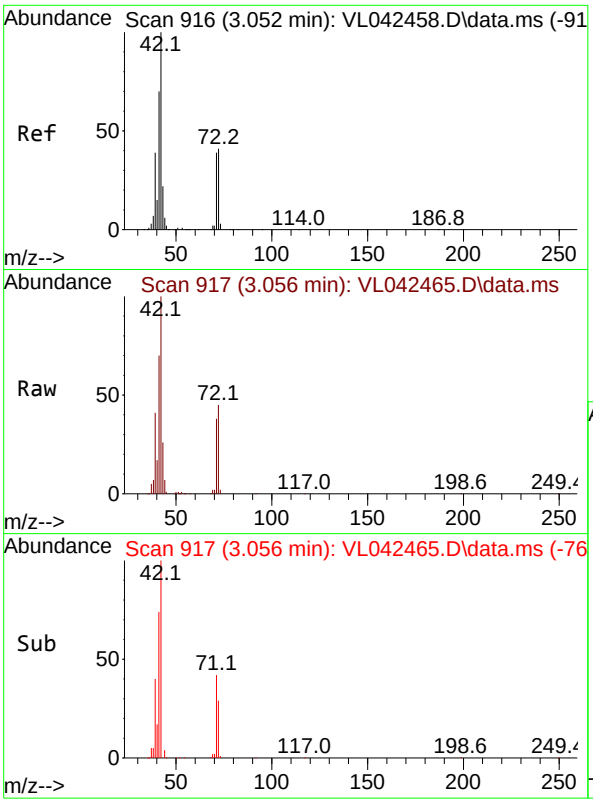


#40
1,4-Dioxane
Concen: 13.115 ppbv
RT: 4.584 min Scan# 1389
Delta R.T. 0.000 min
Lab File: VL042465.D
Acq: 01 May 2025 12:49

Tgt Ion: 88 Resp: 38551

Ion	Ratio	Lower	Upper
88	100		
58	75.4	0.0	0.0#
43	41.6	0.0	0.0#
57	0.0	0.0	0.0

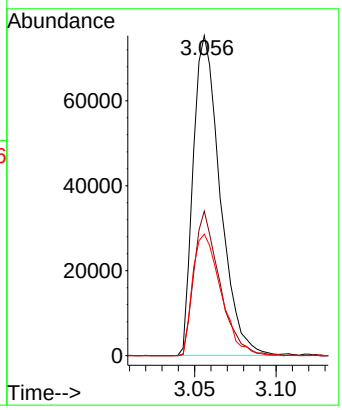




#41
Tetrahydrofuran
Concen: 14.063 ppbv
RT: 3.056 min Scan# 9
Delta R.T. 0.004 min
Lab File: VL042465.D
Acq: 01 May 2025 12:49

Tgt Ion: 42 Resp: 8629

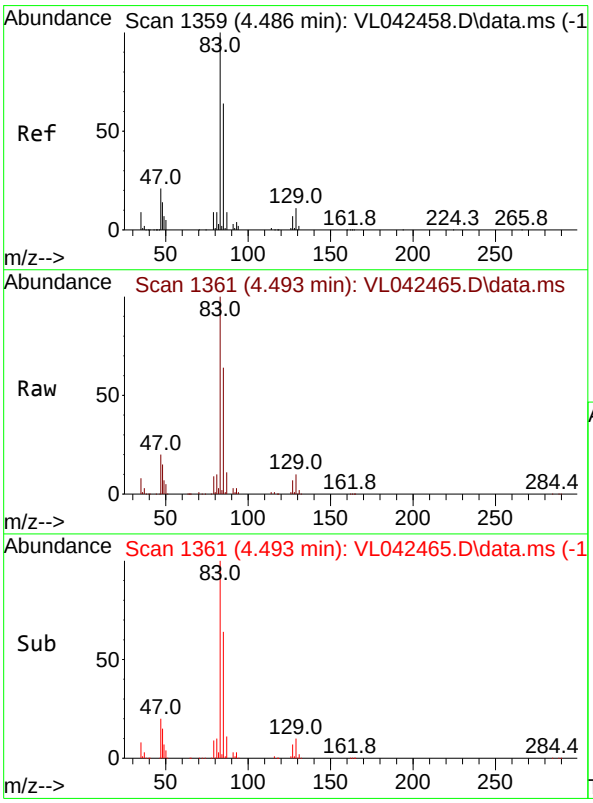
Ion	Ratio	Lower	Upper
42	100		
72	43.3	33.5	50.3
71	40.1	32.6	49.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

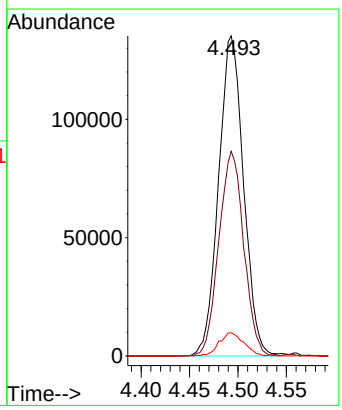
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

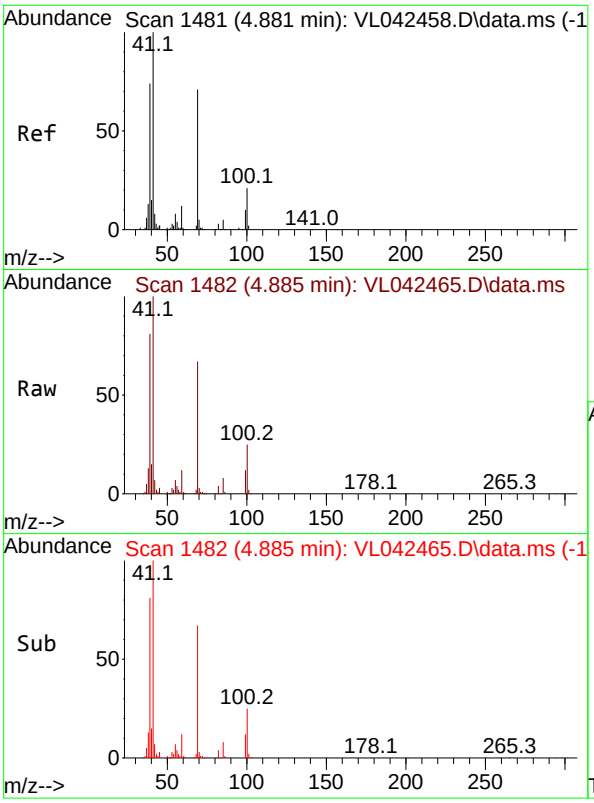


#42
Bromodichloromethane
Concen: 15.259 ppbv
RT: 4.493 min Scan# 1361
Delta R.T. 0.007 min
Lab File: VL042465.D
Acq: 01 May 2025 12:49

Tgt Ion: 83 Resp: 242556

Ion	Ratio	Lower	Upper
83	100		
85	63.9	51.5	77.3
127	7.3	5.4	8.2

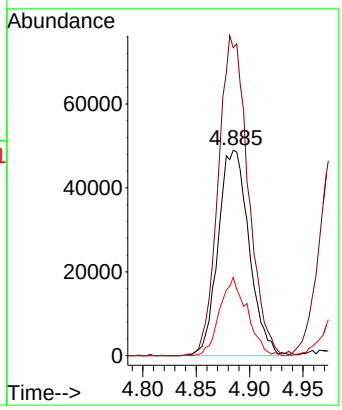




#43
Methyl Methacrylate
Concen: 15.639 ppbv
RT: 4.885 min Scan# 14
Delta R.T. 0.004 min
Lab File: VL042465.D
Acq: 01 May 2025 12:49

Tgt Ion: 69 Resp: 9827

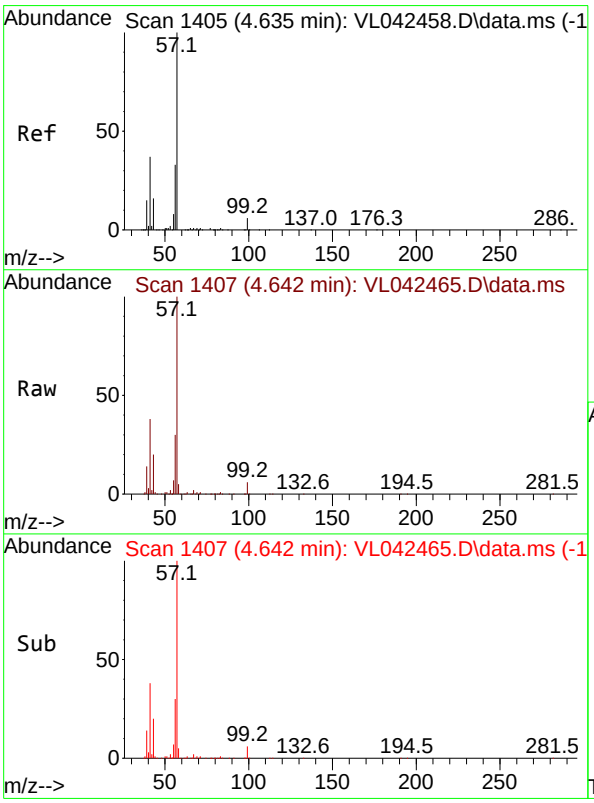
Ion	Ratio	Lower	Upper
69	100		
41	151.1	120.8	181.2
100	34.0	26.7	40.1



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

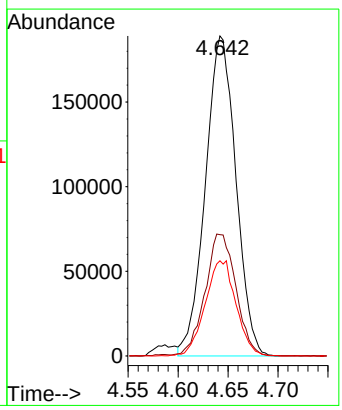
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

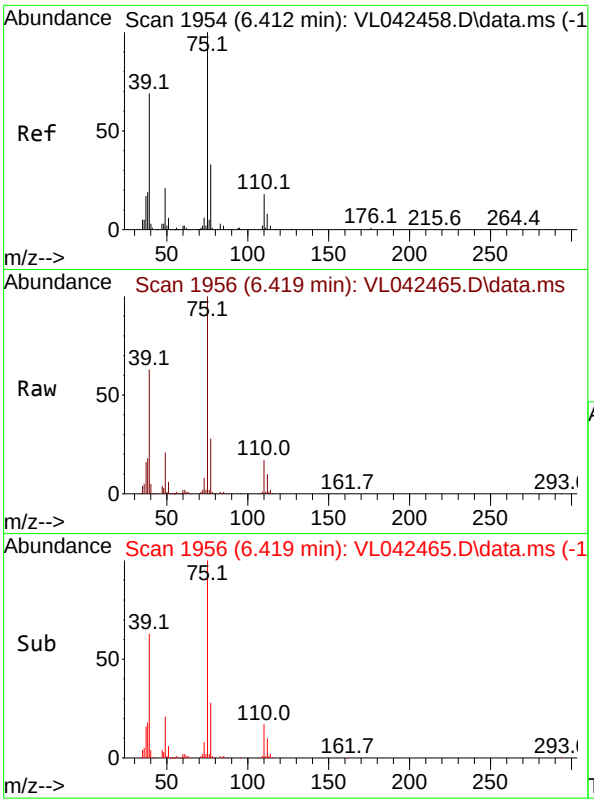


#44
2,2,4-Trimethylpentane
Concen: 14.734 ppbv
RT: 4.642 min Scan# 1407
Delta R.T. 0.007 min
Lab File: VL042465.D
Acq: 01 May 2025 12:49

Tgt Ion: 57 Resp: 401920

Ion	Ratio	Lower	Upper
57	100		
41	38.8	30.6	45.8
56	30.1	25.0	37.6

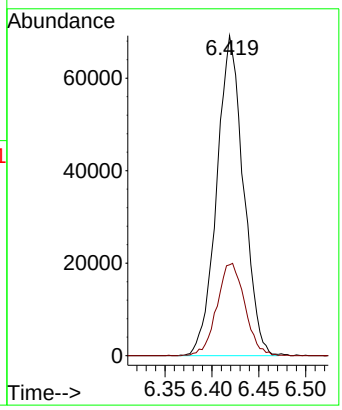




#45
t-1,3-Dichloropropene
Concen: 16.529 ppbv
RT: 6.419 min Scan# 1
Delta R.T. 0.007 min
Lab File: VL042465.D
Acq: 01 May 2025 12:49

Tgt Ion: 75 Resp: 13676

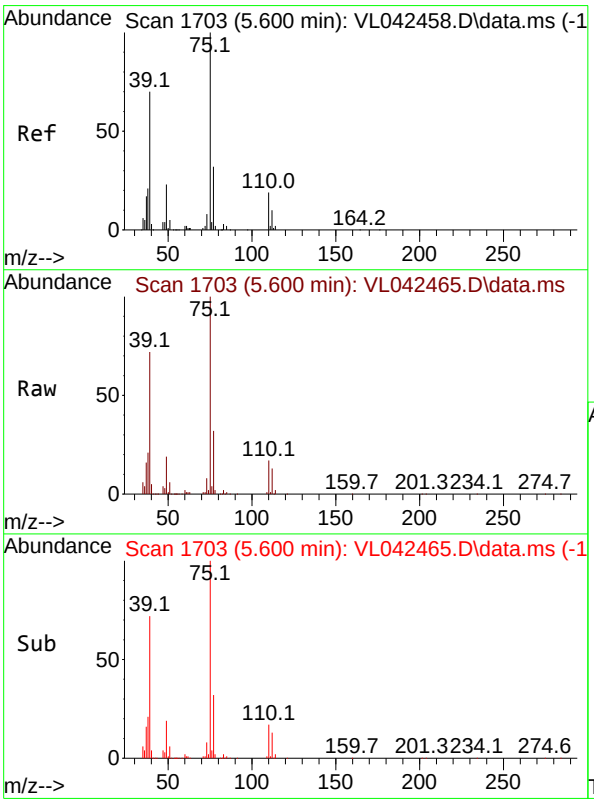
Ion	Ratio	Lower	Upper
75	100		
77	28.4	26.3	39.5



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

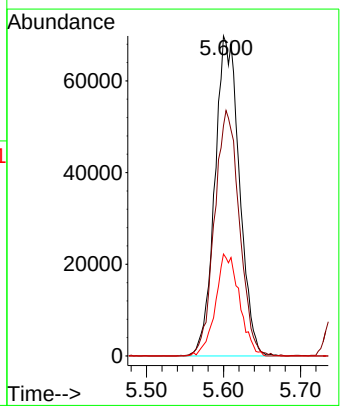
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

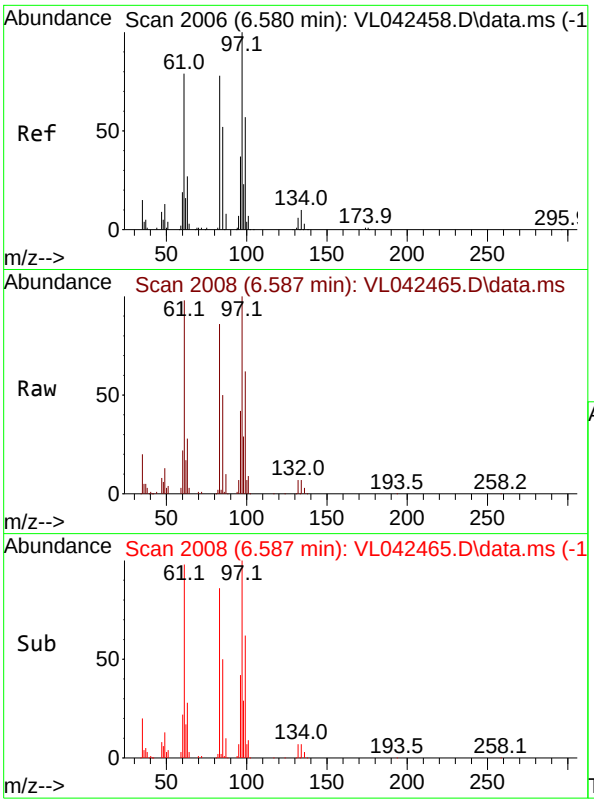


#46
cis-1,3-Dichloropropene
Concen: 15.749 ppbv m
RT: 5.600 min Scan# 1703
Delta R.T. 0.000 min
Lab File: VL042465.D
Acq: 01 May 2025 12:49

Tgt Ion: 75 Resp: 154705

Ion	Ratio	Lower	Upper
75	100		
39	72.0	55.7	83.5
77	31.9	25.8	38.8

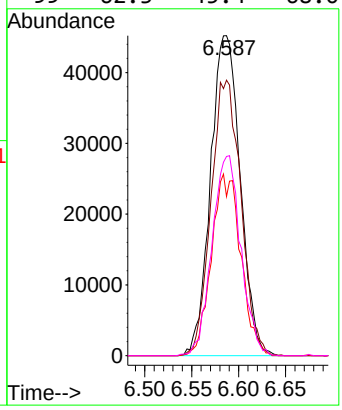




#47
1,1,2-Trichloroethane
Concen: 14.356 ppbv
RT: 6.587 min Scan# 2
Delta R.T. 0.007 min
Lab File: VL042465.D
Acq: 01 May 2025 12:49

Tgt Ion: 97 Resp: 9949

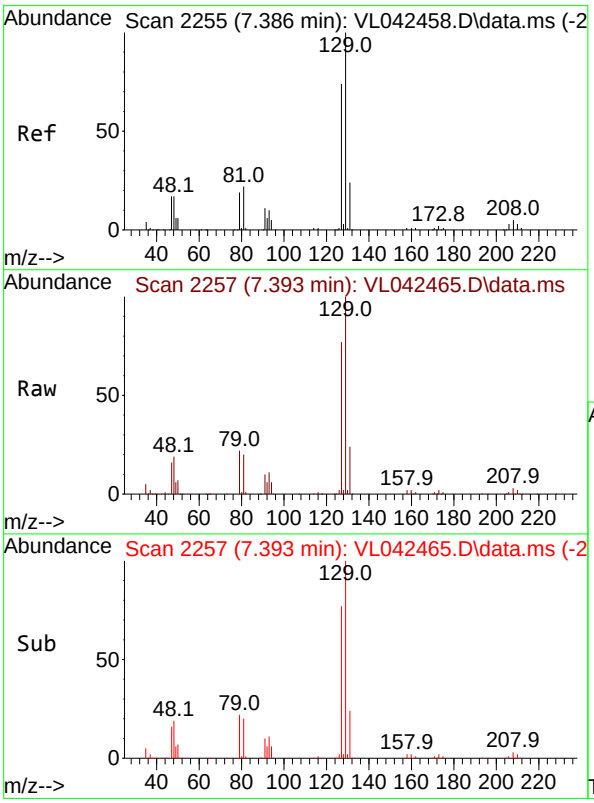
Ion	Ratio	Lower	Upper
97	100		
83	86.1	62.2	93.2
85	49.7	41.5	62.3
99	62.3	45.4	68.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

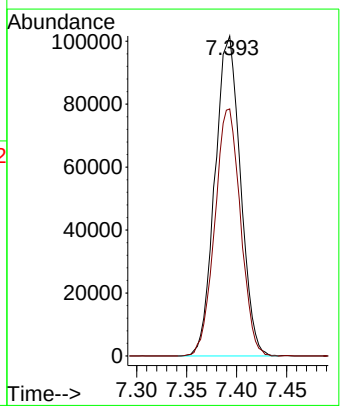
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

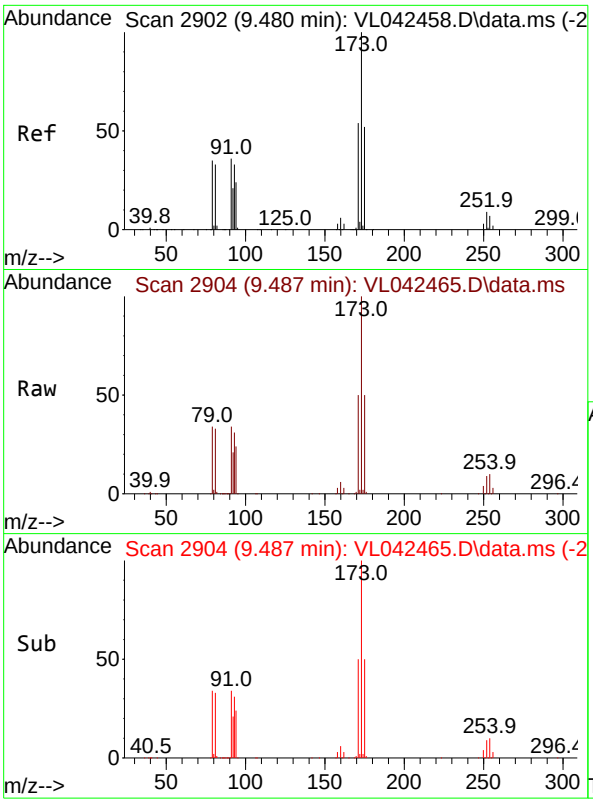


#48
Dibromochloromethane
Concen: 15.468 ppbv
RT: 7.393 min Scan# 2257
Delta R.T. 0.007 min
Lab File: VL042465.D
Acq: 01 May 2025 12:49

Tgt Ion:129 Resp: 180970

Ion	Ratio	Lower	Upper
129	100		
127	77.7	39.5	118.5

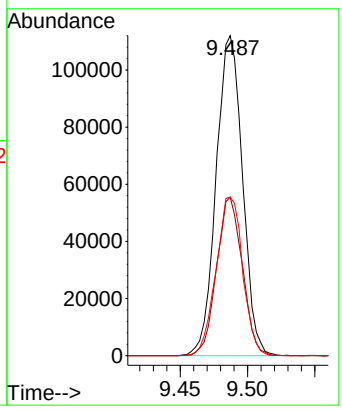




#49
Bromoform
Concen: 15.535 ppbv
RT: 9.487 min Scan# 2
Delta R.T. 0.007 min
Lab File: VL042465.D
Acq: 01 May 2025 12:49

Tgt Ion:173 Resp: 15244

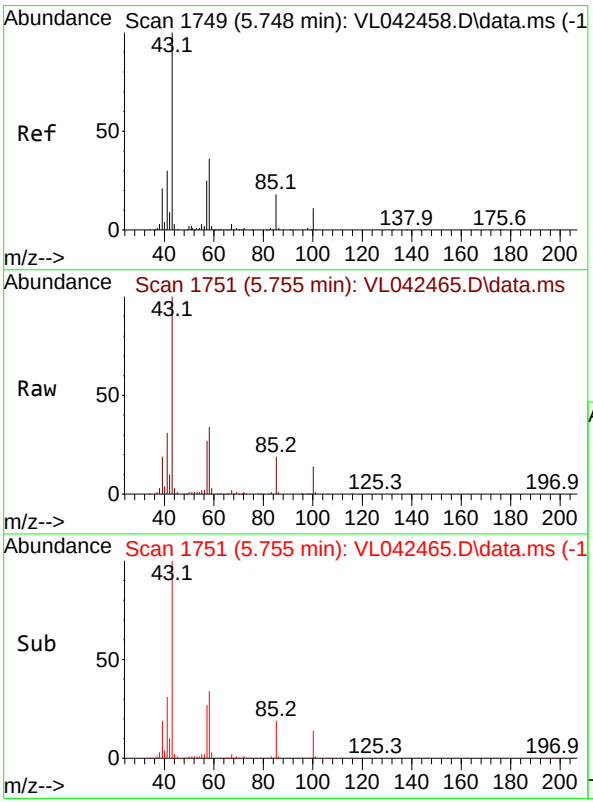
Ion	Ratio	Lower	Upper
173	100		
175	48.2	38.9	58.3
171	50.0	40.6	60.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

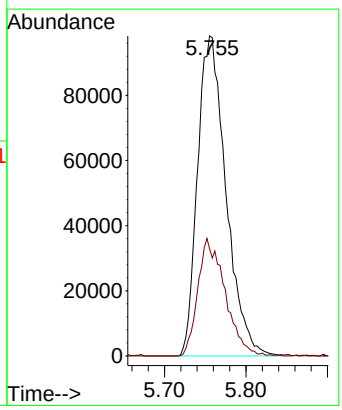
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

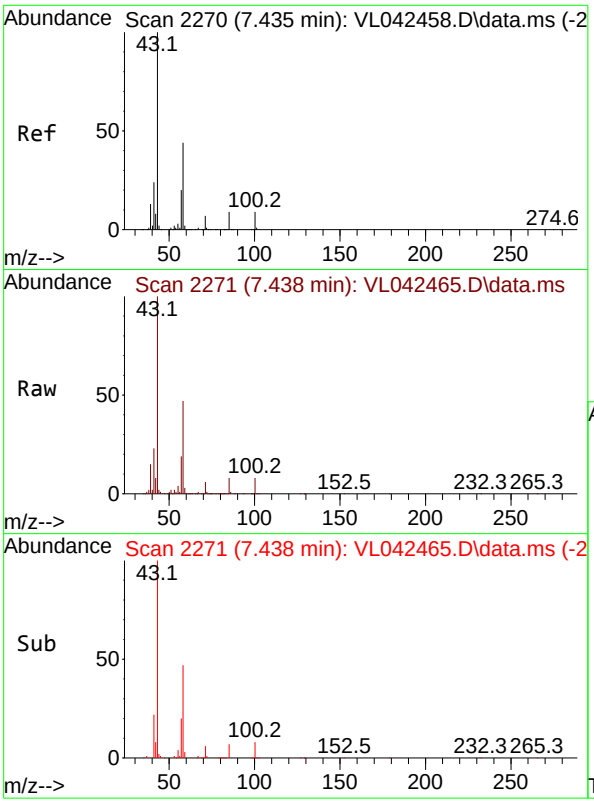


#50
4-Methyl-2-Pentanone
Concen: 14.550 ppbv
RT: 5.755 min Scan# 1751
Delta R.T. 0.007 min
Lab File: VL042465.D
Acq: 01 May 2025 12:49

Tgt Ion: 43 Resp: 237985

Ion	Ratio	Lower	Upper
43	100		
58	35.3	29.5	44.3

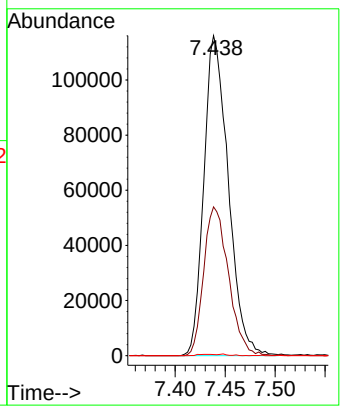




#51
2-Hexanone
Concen: 15.071 ppbv
RT: 7.438 min Scan# 2
Delta R.T. 0.004 min
Lab File: VL042465.D
Acq: 01 May 2025 12:49

Tgt Ion: 43 Resp: 19742

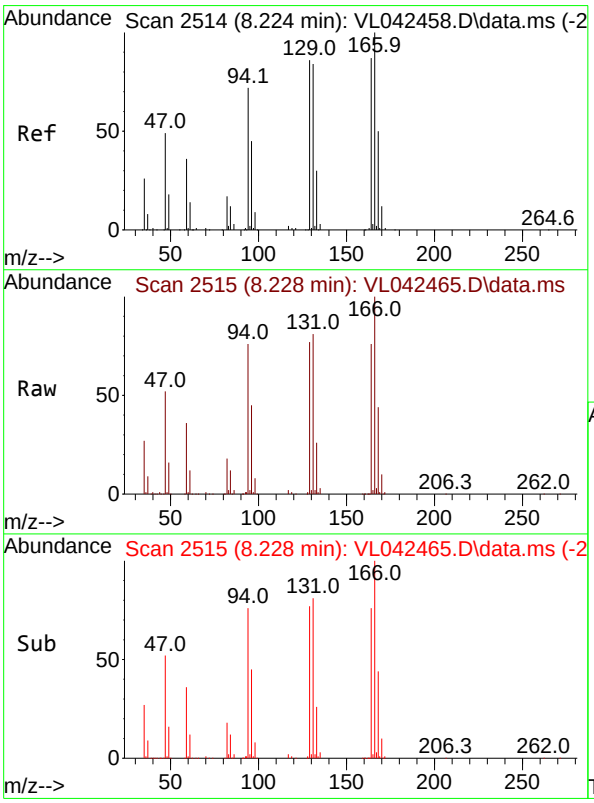
Ion	Ratio	Lower	Upper
43	100		
58	47.2	37.2	55.8
98	0.6	0.4	0.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

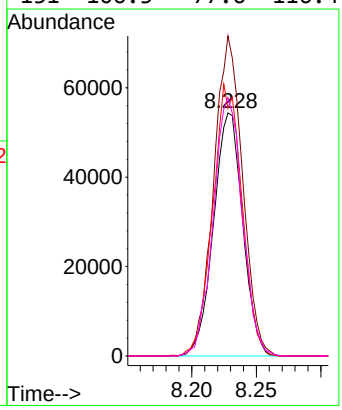
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

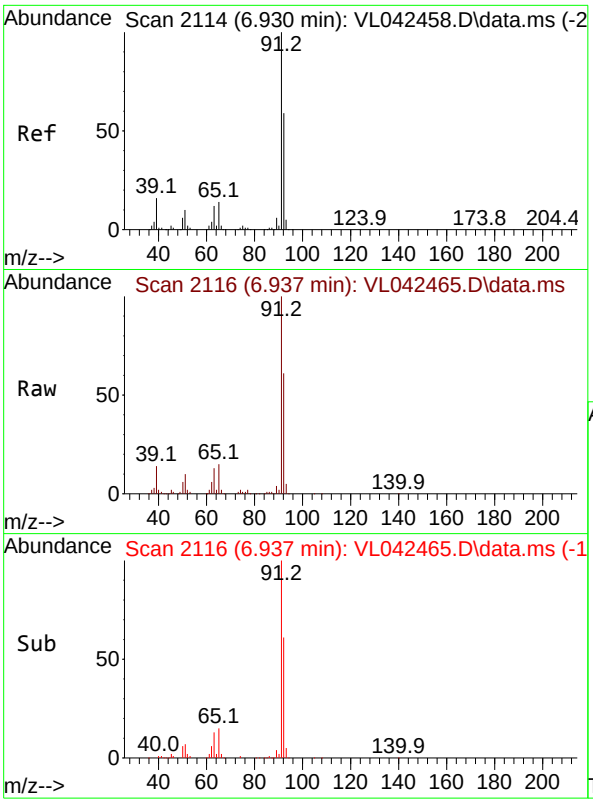


#52
Tetrachloroethene
Concen: 13.272 ppbv
RT: 8.228 min Scan# 2515
Delta R.T. 0.004 min
Lab File: VL042465.D
Acq: 01 May 2025 12:49

Tgt Ion:164 Resp: 85271

Ion	Ratio	Lower	Upper
164	100		
166	131.7	91.6	137.4
129	101.9	79.0	118.4
131	106.3	77.6	116.4

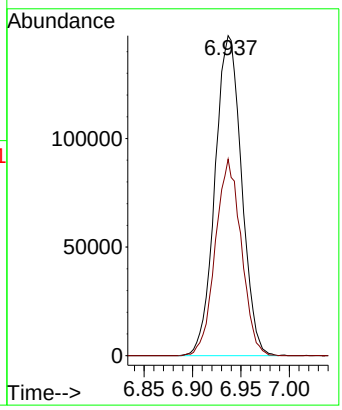




#53
Toluene
Concen: 15.768 ppbv
RT: 6.937 min Scan# 21
Delta R.T. 0.007 min
Lab File: VL042465.D
Acq: 01 May 2025 12:49

Tgt Ion: 91 Resp: 28173

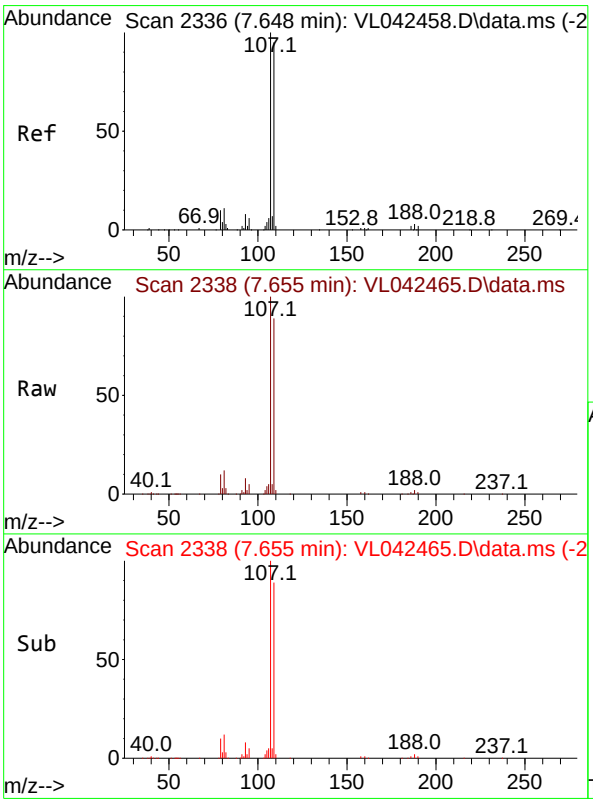
Ion	Ratio	Lower	Upper
91	100		
92	59.8	47.9	71.9



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

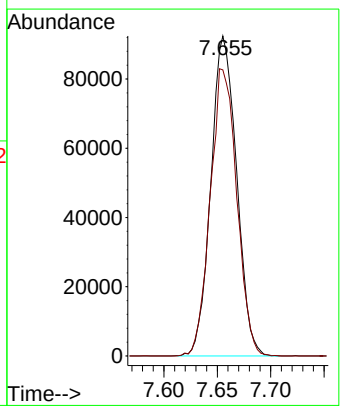
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

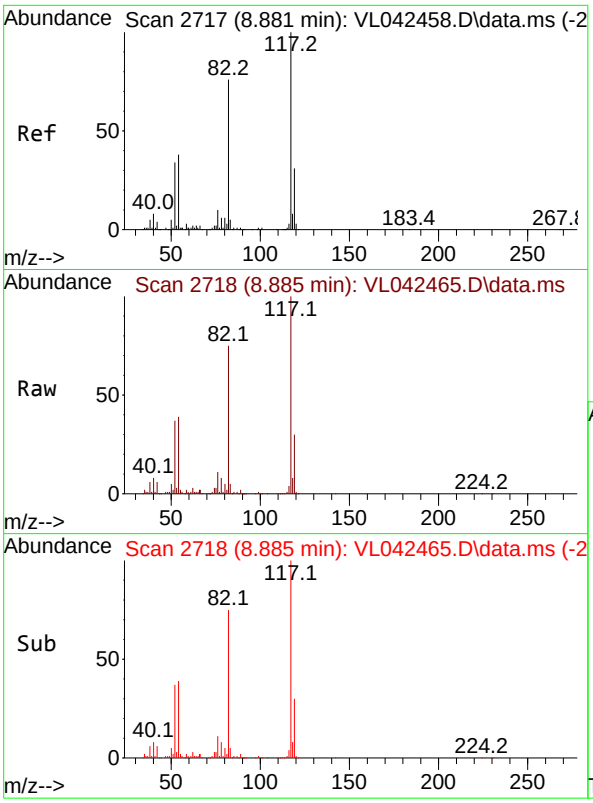


#54
1,2-Dibromoethane
Concen: 14.523 ppbv
RT: 7.655 min Scan# 2338
Delta R.T. 0.007 min
Lab File: VL042465.D
Acq: 01 May 2025 12:49

Tgt Ion:107 Resp: 154739

Ion	Ratio	Lower	Upper
107	100		
109	89.3	76.0	114.0

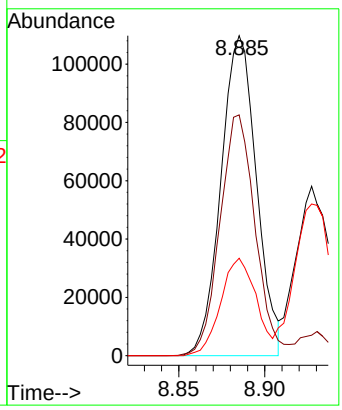




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.885 min Scan# 2
Delta R.T. 0.004 min
Lab File: VL042465.D
Acq: 01 May 2025 12:49

Tgt Ion:117 Resp: 15767

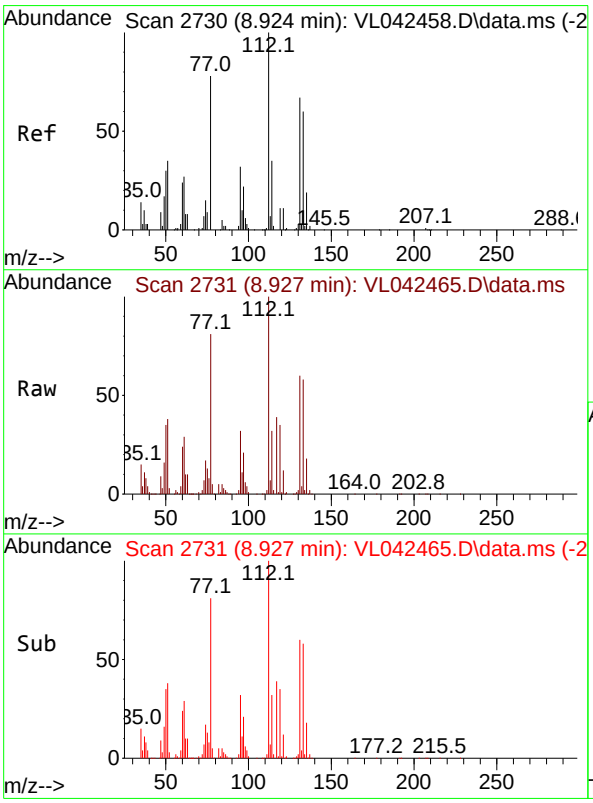
Ion	Ratio	Lower	Upper
117	100		
82	80.9	63.5	95.3
119	29.8	25.8	38.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

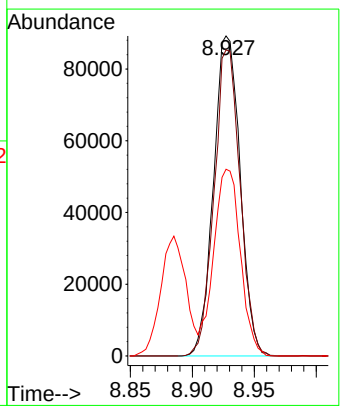
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

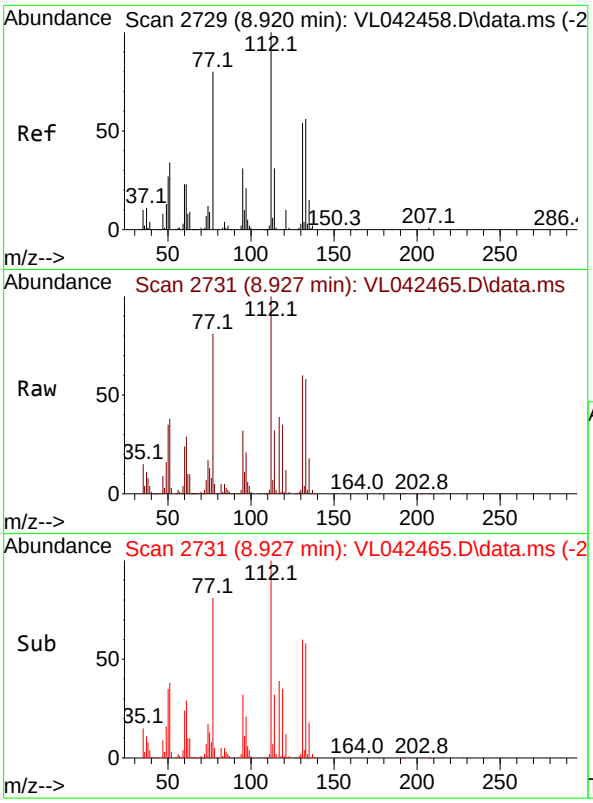


#56
1,1,1,2-Tetrachloroethane
Concen: 14.326 ppbv
RT: 8.927 min Scan# 2731
Delta R.T. 0.004 min
Lab File: VL042465.D
Acq: 01 May 2025 12:49

Tgt Ion:131 Resp: 133410

Ion	Ratio	Lower	Upper
131	100		
133	93.6	76.0	114.0
119	59.4	46.1	69.1

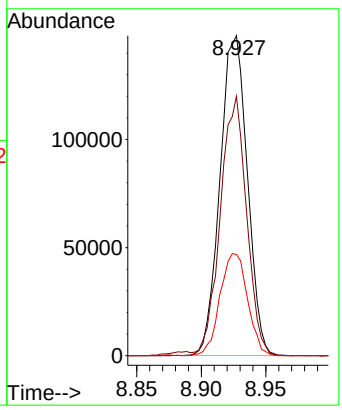




#57
Chlorobenzene
Concen: 13.783 ppbv
RT: 8.927 min Scan# 2
Delta R.T. 0.007 min
Lab File: VL042465.D
Acq: 01 May 2025 12:49

Tgt Ion:112 Resp: 21837

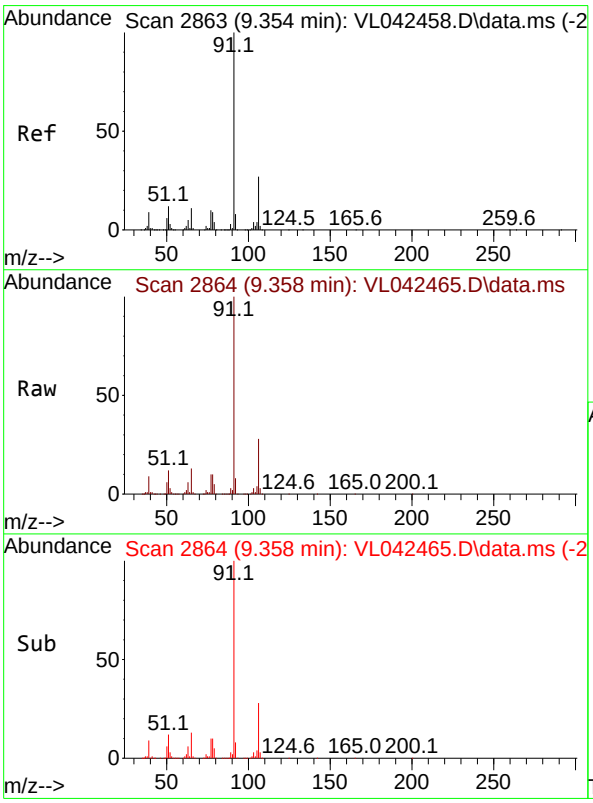
Ion	Ratio	Lower	Upper
112	100		
77	80.9	65.0	97.4
114	31.6	27.5	33.7



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

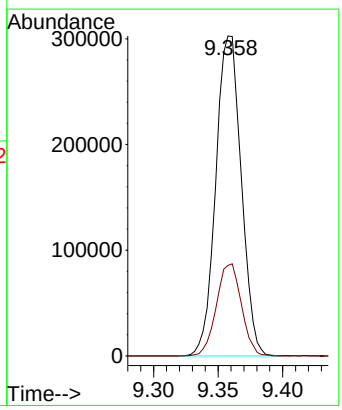
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

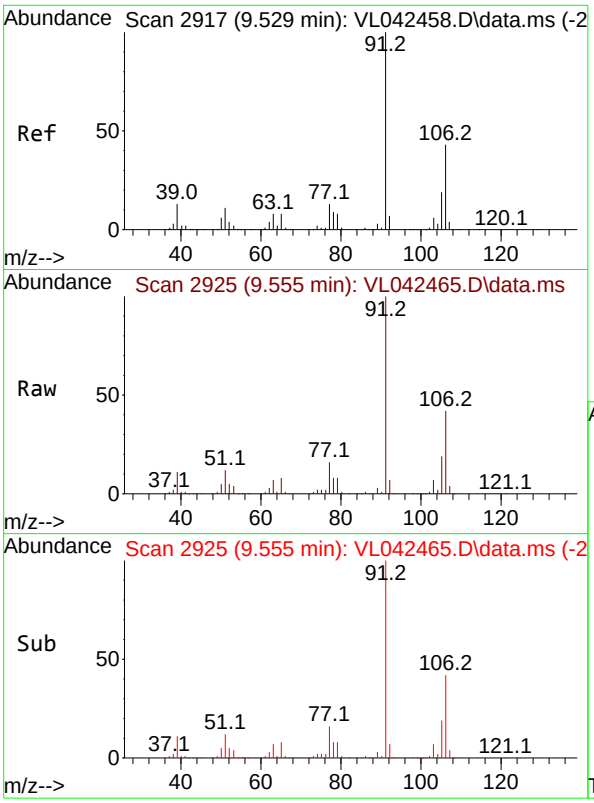


#58
Ethyl Benzene
Concen: 15.743 ppbv
RT: 9.358 min Scan# 2864
Delta R.T. 0.004 min
Lab File: VL042465.D
Acq: 01 May 2025 12:49

Tgt Ion: 91 Resp: 414805

Ion	Ratio	Lower	Upper
91	100		
106	28.3	21.9	32.9

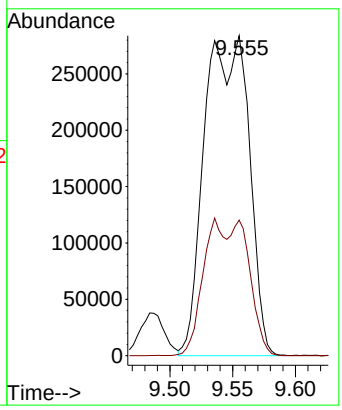




#59
m/p-Xylene
Concen: 31.674 ppbv m
RT: 9.555 min Scan# 2
Delta R.T. 0.026 min
Lab File: VL042465.D
Acq: 01 May 2025 12:49

Tgt Ion: 91 Resp: 69974

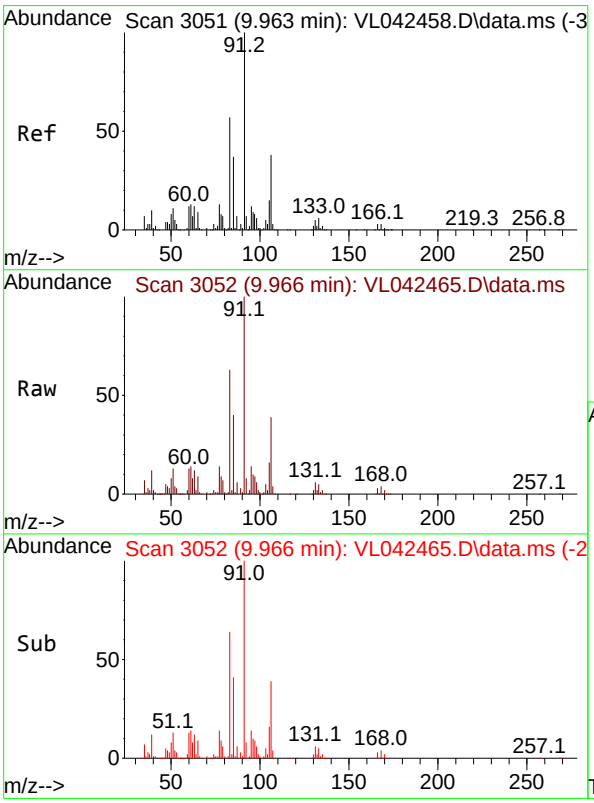
Ion	Ratio	Lower	Upper
91	100		
106	42.2	34.2	51.2



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

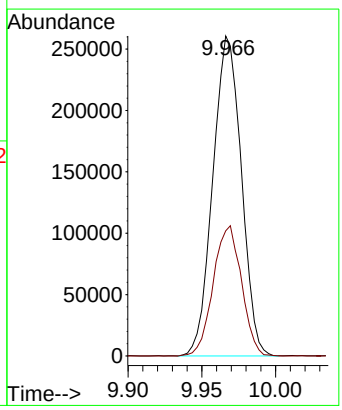
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

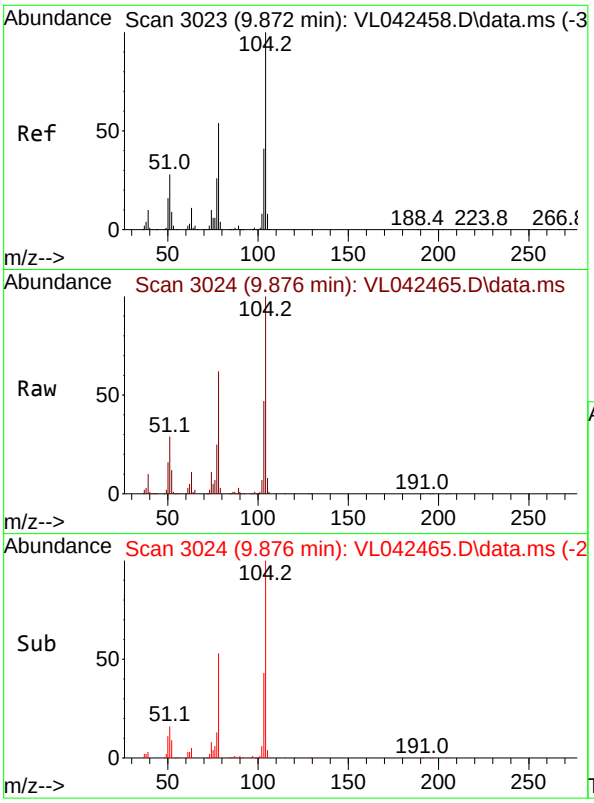


#60
o-Xylene
Concen: 15.863 ppbv
RT: 9.966 min Scan# 3052
Delta R.T. 0.004 min
Lab File: VL042465.D
Acq: 01 May 2025 12:49

Tgt Ion: 91 Resp: 350328

Ion	Ratio	Lower	Upper
91	100		
106	40.3	20.1	60.2

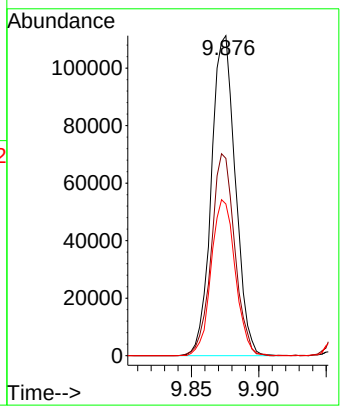




#61
Styrene
Concen: 16.686 ppbv
RT: 9.876 min Scan# 3
Delta R.T. 0.004 min
Lab File: VL042465.D
Acq: 01 May 2025 12:49

Tgt Ion:104 Resp: 13772

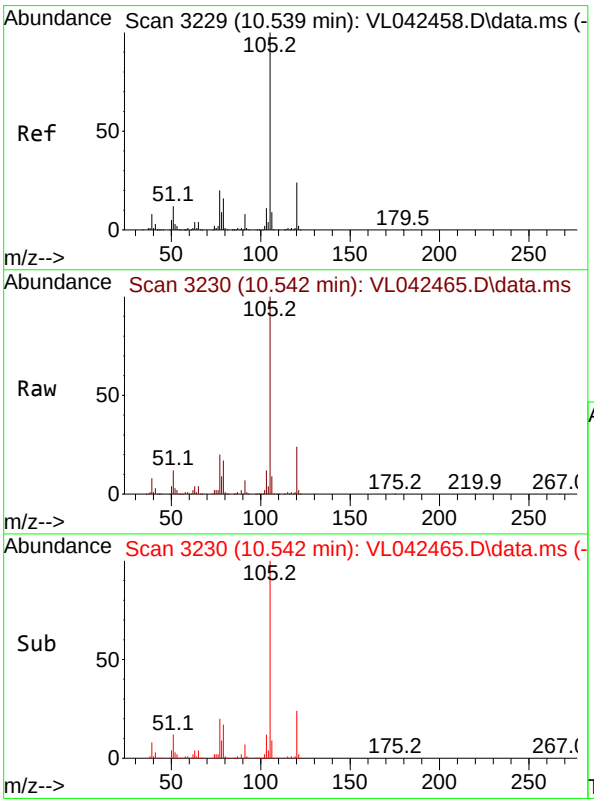
Ion	Ratio	Lower	Upper
104	100		
78	61.6	46.9	70.3
103	49.0	36.6	55.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

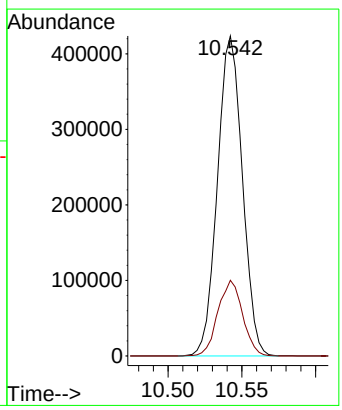
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

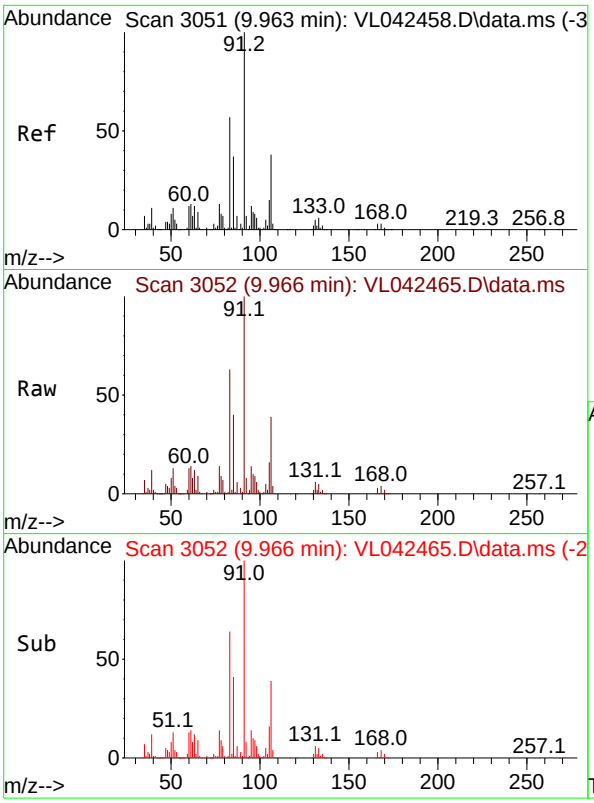


#62
Isopropylbenzene
Concen: 15.629 ppbv
RT: 10.542 min Scan# 3230
Delta R.T. 0.004 min
Lab File: VL042465.D
Acq: 01 May 2025 12:49

Tgt Ion:105 Resp: 498619

Ion	Ratio	Lower	Upper
105	100		
120	23.4	18.8	28.2

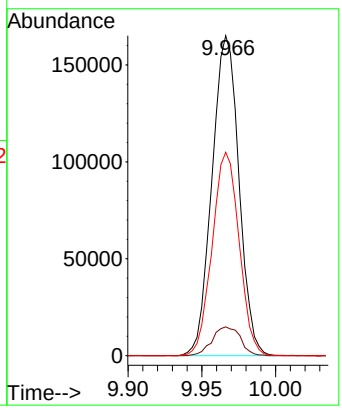




#63
1,1,2,2-Tetrachloroethane
Concen: 14.635 ppbv
RT: 9.966 min Scan# 3
Delta R.T. 0.004 min
Lab File: VL042465.D
Acq: 01 May 2025 12:49

Tgt Ion: 83 Resp: 20972

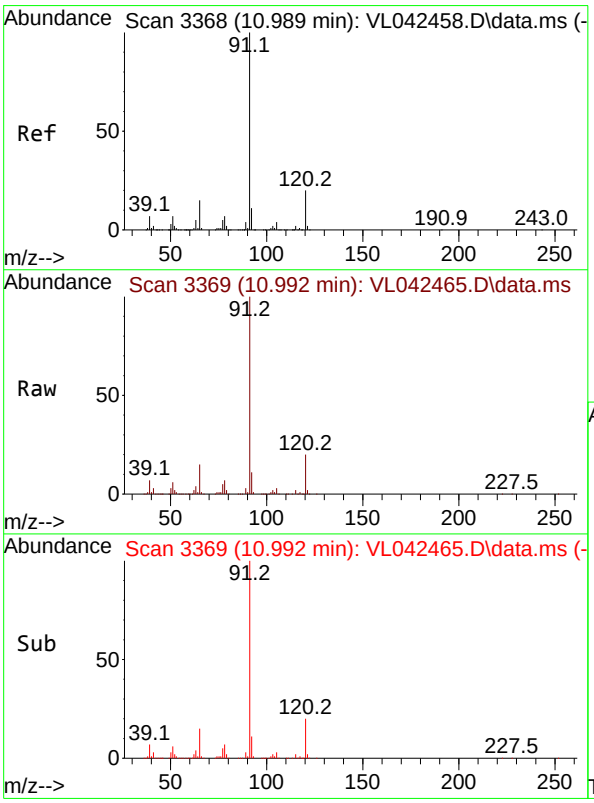
Ion	Ratio	Lower	Upper
83	100		
131	9.4	4.7	14.1
85	63.6	32.5	97.4



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

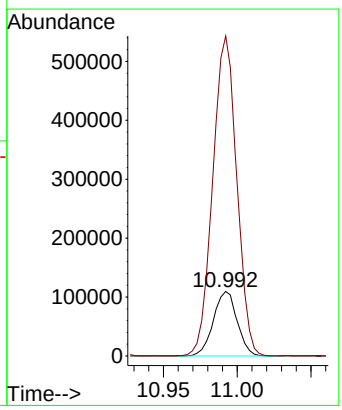
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

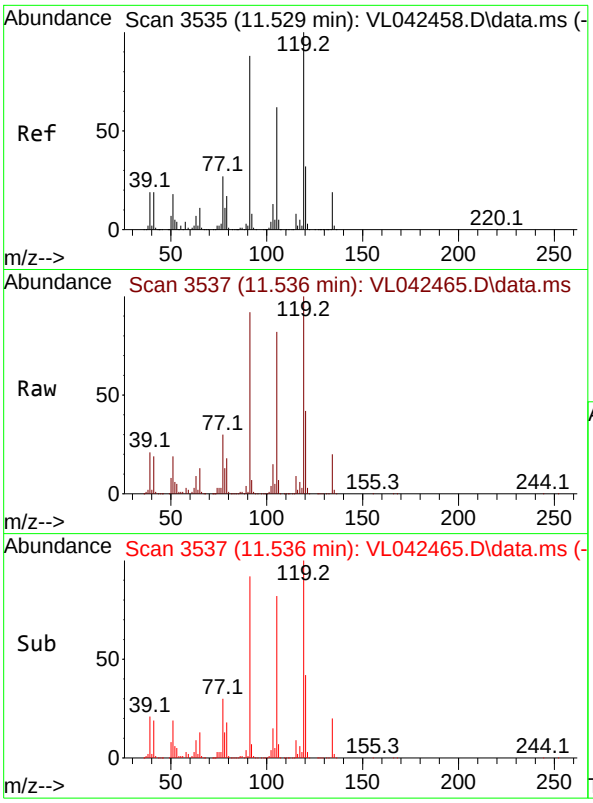


#64
n-propylbenzene
Concen: 15.759 ppbv
RT: 10.992 min Scan# 3369
Delta R.T. 0.004 min
Lab File: VL042465.D
Acq: 01 May 2025 12:49

Tgt Ion:120 Resp: 122452

Ion	Ratio	Lower	Upper
120	100		
91	501.8	408.6	612.8





#65
tert-Butylbenzene
Concen: 15.562 ppbv
RT: 11.536 min Scan# 3
Delta R.T. 0.007 min
Lab File: VL042465.D
Acq: 01 May 2025 12:49

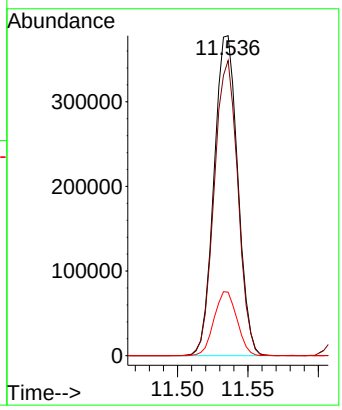
Tgt Ion:119 Resp: 44304

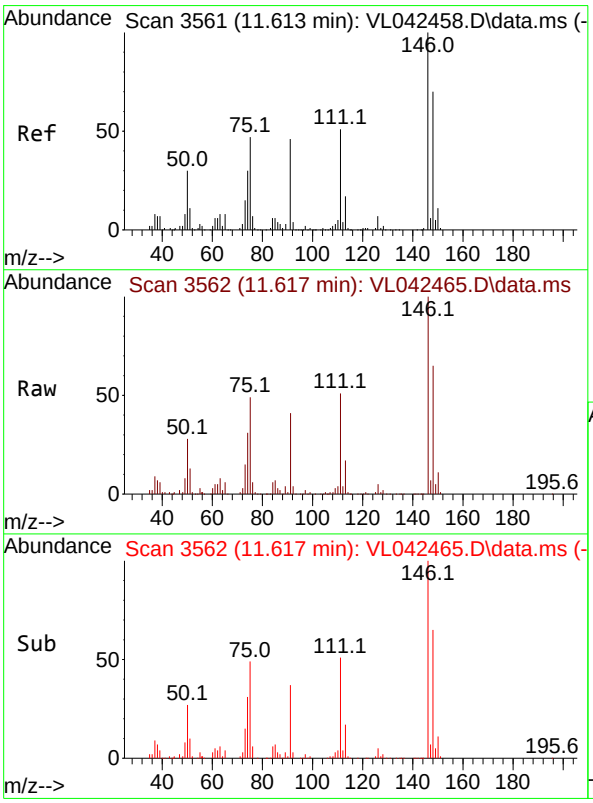
Ion	Ratio	Lower	Upper
119	100		
91	92.0	71.6	107.4
134	19.4	15.0	22.4

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

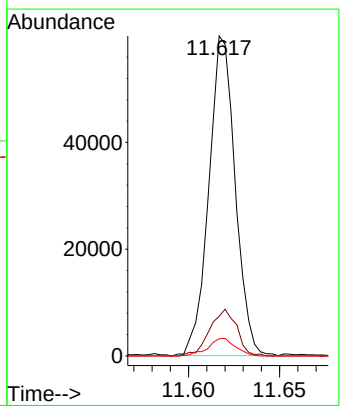


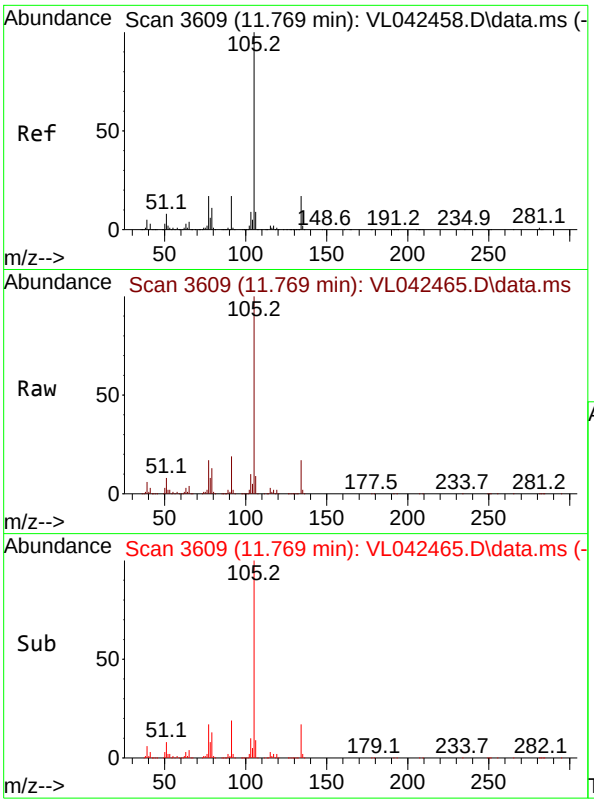


#66
Benzyl Chloride
Concen: 18.348 ppbv
RT: 11.617 min Scan# 3562
Delta R.T. 0.004 min
Lab File: VL042465.D
Acq: 01 May 2025 12:49

Tgt Ion: 91 Resp: 60376

Ion	Ratio	Lower	Upper
91	100		
126	15.0	13.3	19.9
128	5.7	4.2	6.4

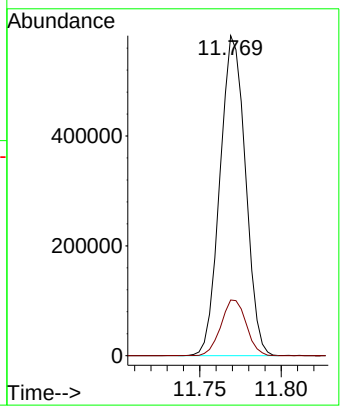




#67
sec-Butylbenzene
Concen: 15.636 ppbv
RT: 11.769 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042465.D
Acq: 01 May 2025 12:49

Tgt Ion:105 Resp: 63260

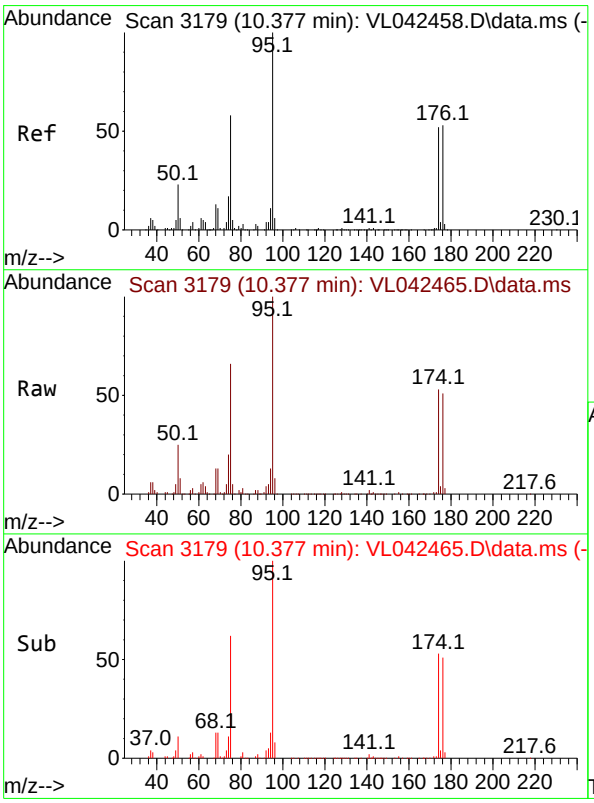
Ion	Ratio	Lower	Upper
105	100		
134	17.4	14.1	21.1



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

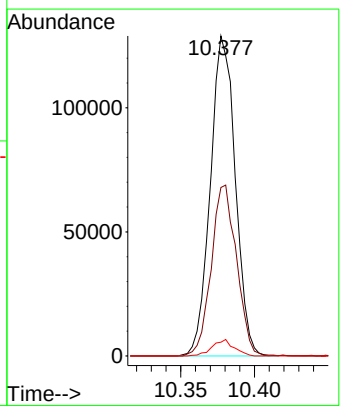
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

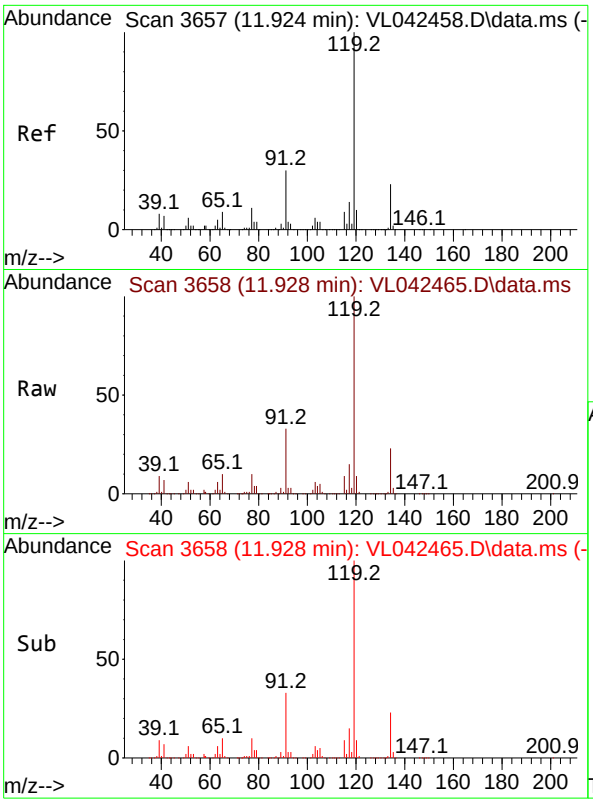


#68
1-Bromo-4-Fluorobenzene
Concen: 10.387 ppbv
RT: 10.377 min Scan# 3179
Delta R.T. 0.000 min
Lab File: VL042465.D
Acq: 01 May 2025 12:49

Tgt Ion: 95 Resp: 151837

Ion	Ratio	Lower	Upper
95	100		
174	54.0	42.7	64.1
175	4.5	3.6	5.4

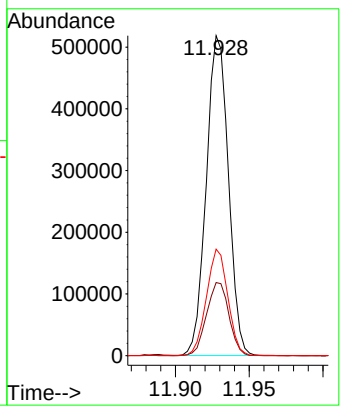




#69
p-Isopropyltoluene
Concen: 15.837 ppbv
RT: 11.928 min Scan# 3
Delta R.T. 0.004 min
Lab File: VL042465.D
Acq: 01 May 2025 12:49

Tgt Ion:119 Resp: 53986

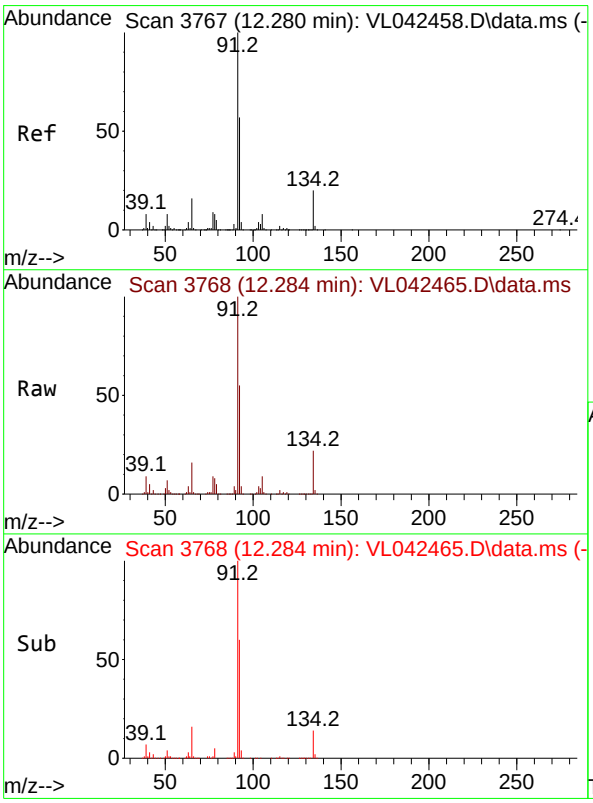
Ion	Ratio	Lower	Upper
119	100		
134	23.2	19.0	28.4
91	32.5	25.5	38.3



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

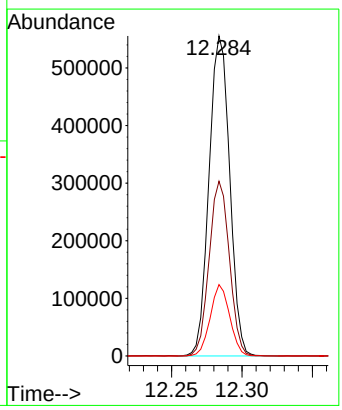
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

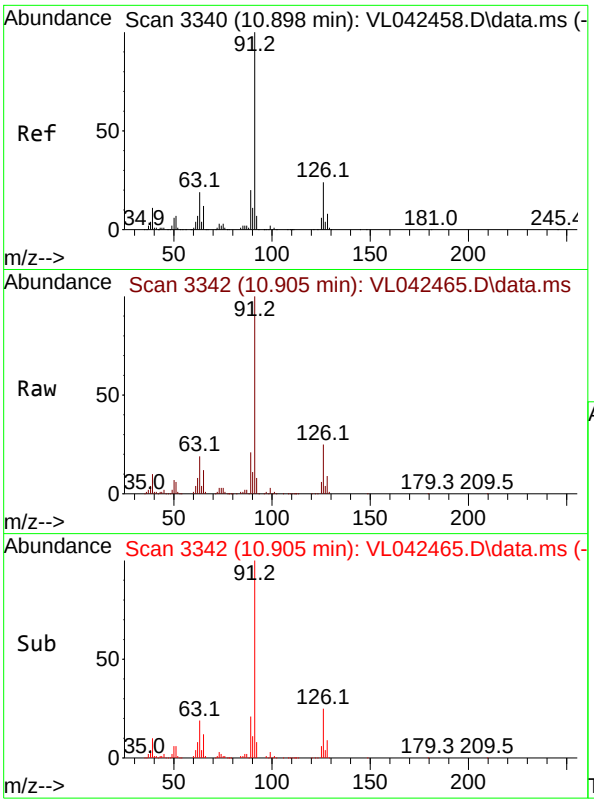


#70
n-Butylbenzene
Concen: 16.084 ppbv
RT: 12.284 min Scan# 3768
Delta R.T. 0.004 min
Lab File: VL042465.D
Acq: 01 May 2025 12:49

Tgt Ion: 91 Resp: 566780

Ion	Ratio	Lower	Upper
91	100		
92	53.7	44.0	66.0
134	21.0	16.8	25.2

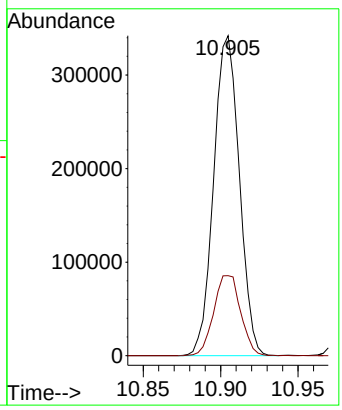




#71
2-Chlorotoluene
Concen: 15.755 ppbv
RT: 10.905 min Scan# 3
Delta R.T. 0.007 min
Lab File: VL042465.D
Acq: 01 May 2025 12:49

Tgt Ion: 91 Resp: 39422

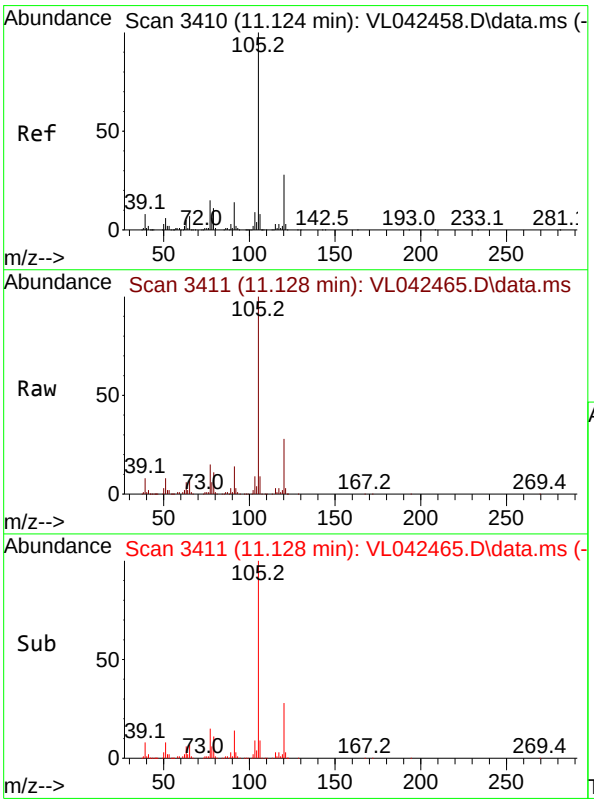
Ion	Ratio	Lower	Upper
91	100		
126	26.2	10.6	42.2



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

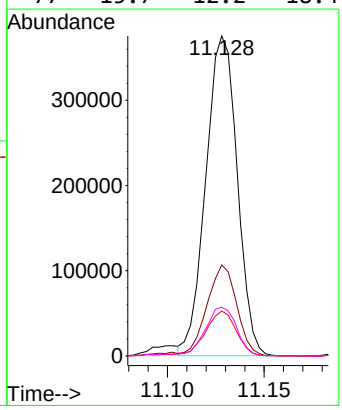
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

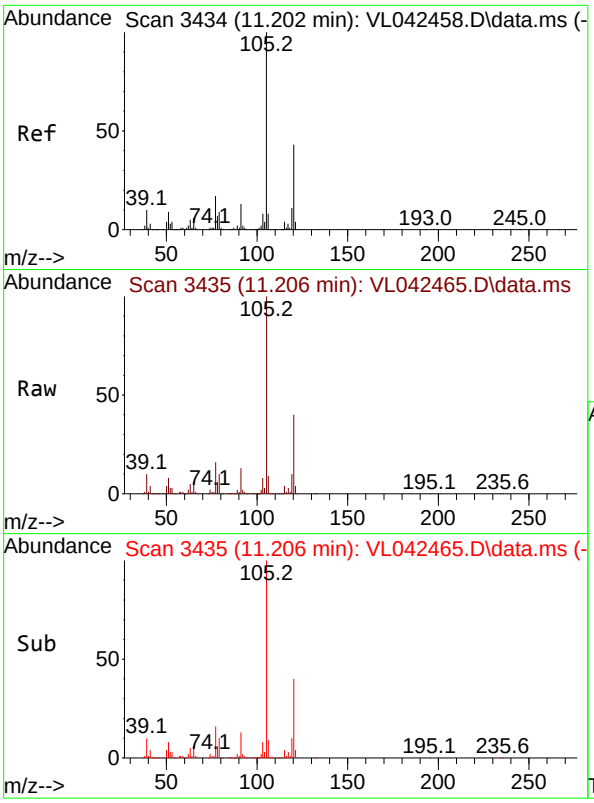


#72
4-Ethyltoluene
Concen: 16.250 ppbv
RT: 11.128 min Scan# 3411
Delta R.T. 0.004 min
Lab File: VL042465.D
Acq: 01 May 2025 12:49

Tgt Ion:105 Resp: 423746

Ion	Ratio	Lower	Upper
105	100		
120	27.9	22.0	33.0
91	14.2	11.2	16.8
77	15.7	12.2	18.4





#73
1,3,5-Trimethylbenzene
Concen: 15.826 ppbv
RT: 11.206 min Scan# 34
Delta R.T. 0.004 min
Lab File: VL042465.D
Acq: 01 May 2025 12:49

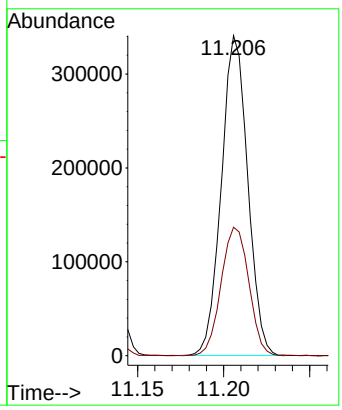
Tgt Ion:105 Resp: 36295

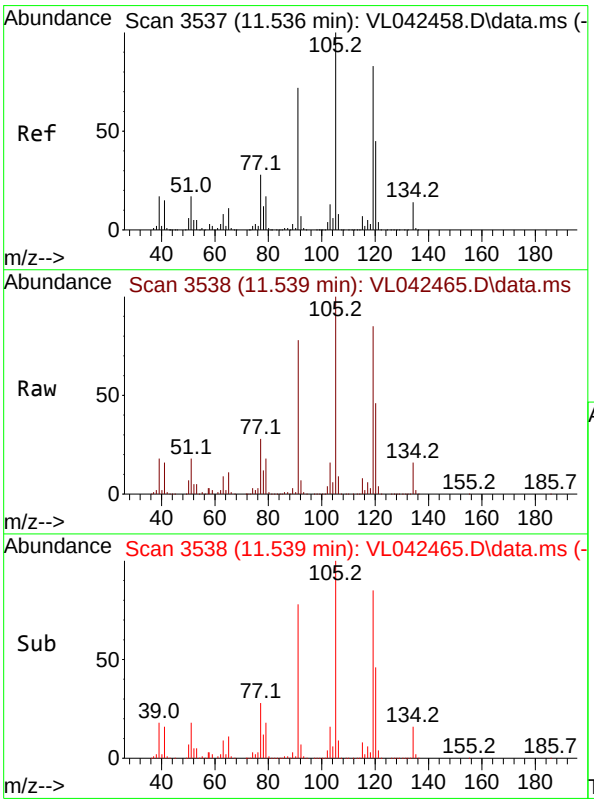
Ion	Ratio	Lower	Upper
105	100		
120	40.1	34.4	51.6

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

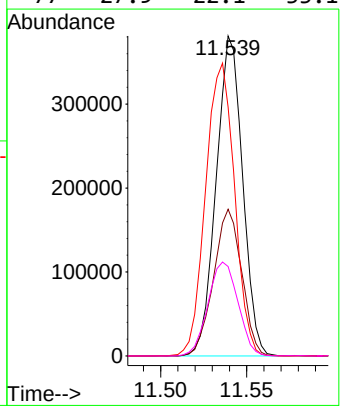


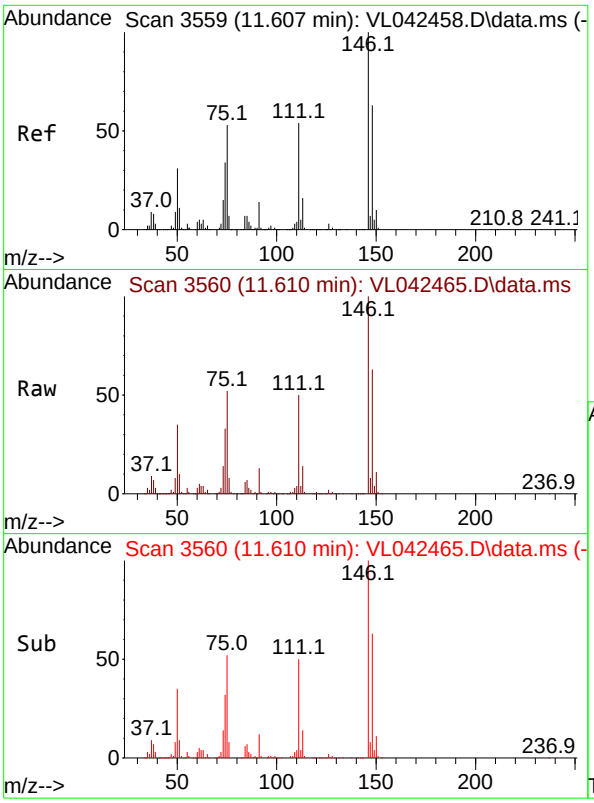


#74
1,2,4-Trimethylbenzene
Concen: 14.683 ppbv
RT: 11.539 min Scan# 3538
Delta R.T. 0.004 min
Lab File: VL042465.D
Acq: 01 May 2025 12:49

Tgt Ion:105 Resp: 407416

Ion	Ratio	Lower	Upper
105	100		
120	45.8	36.1	54.1
91	77.7	57.6	86.4
77	27.9	22.1	33.1

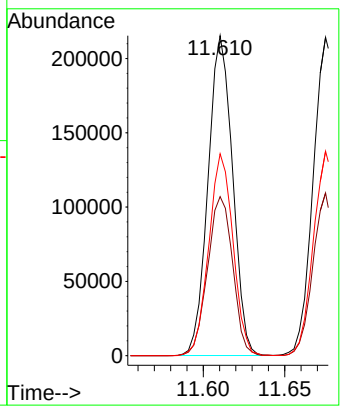




#75
1,3-Dichlorobenzene
Concen: 14.579 ppbv
RT: 11.610 min Scan# 3
Delta R.T. 0.004 min
Lab File: VL042465.D
Acq: 01 May 2025 12:49

Tgt Ion:146 Resp: 22521

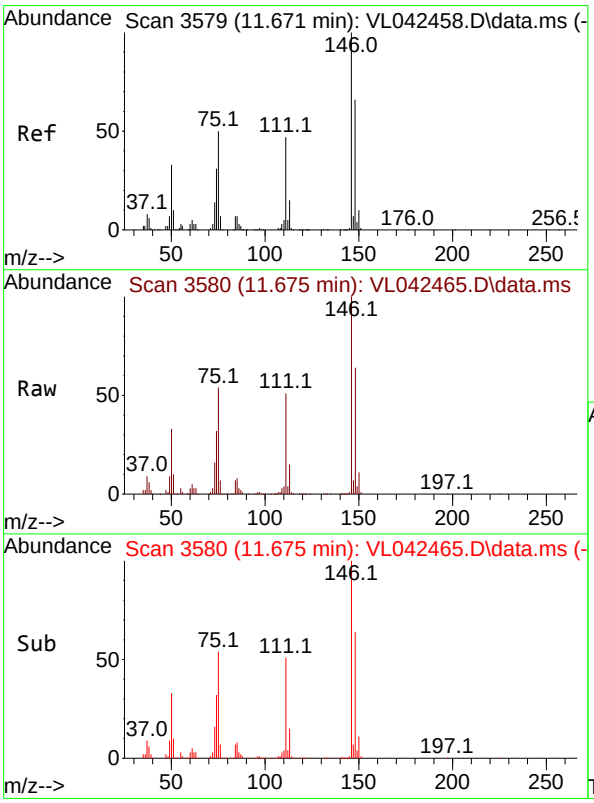
Ion	Ratio	Lower	Upper
146	100		
111	50.9	26.1	78.3
148	62.5	32.0	96.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

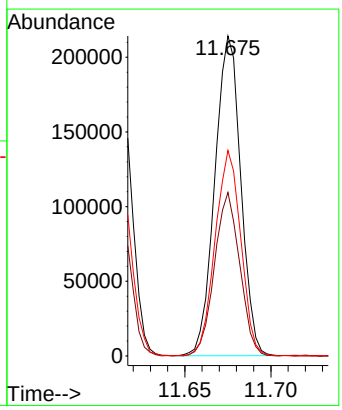
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

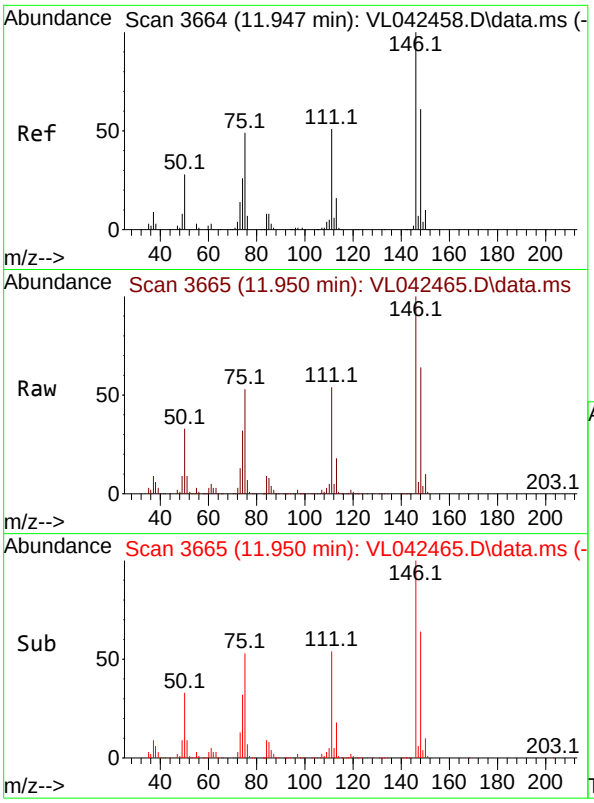


#76
1,4-Dichlorobenzene
Concen: 15.357 ppbv
RT: 11.675 min Scan# 3580
Delta R.T. 0.004 min
Lab File: VL042465.D
Acq: 01 May 2025 12:49

Tgt Ion:146 Resp: 224505

Ion	Ratio	Lower	Upper
146	100		
111	50.0	24.4	73.2
148	64.0	32.0	96.2

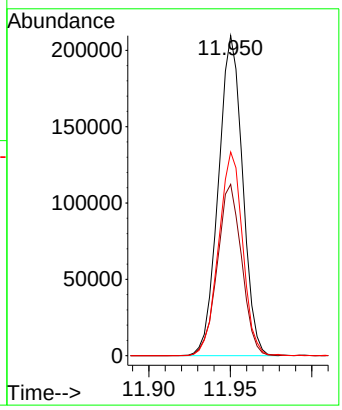




#77
1,2-Dichlorobenzene
Concen: 14.295 ppbv
RT: 11.950 min Scan# 3
Delta R.T. 0.004 min
Lab File: VL042465.D
Acq: 01 May 2025 12:49

Tgt Ion:146 Resp: 21614

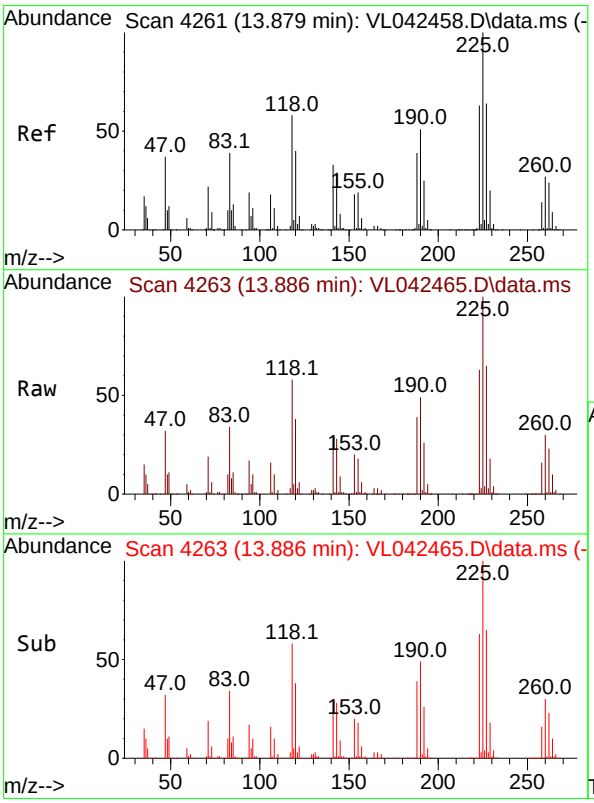
Ion	Ratio	Lower	Upper
146	100		
111	53.9	26.5	79.5
148	63.3	31.5	94.5



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

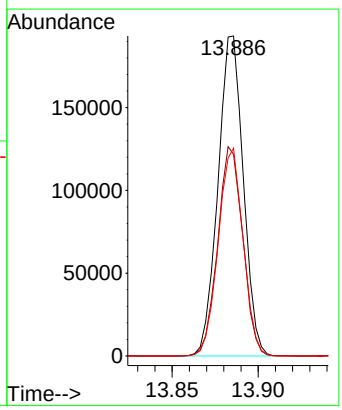
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

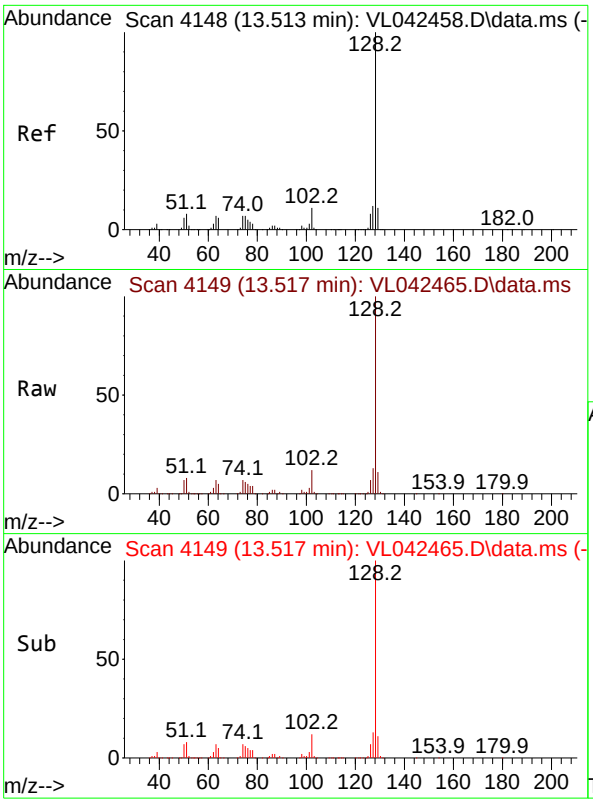


#78
Hexachloro-1,3-Butadiene
Concen: 13.121 ppbv
RT: 13.886 min Scan# 4263
Delta R.T. 0.007 min
Lab File: VL042465.D
Acq: 01 May 2025 12:49

Tgt Ion:225 Resp: 198112

Ion	Ratio	Lower	Upper
225	100		
223	64.5	50.2	75.4
227	63.6	51.2	76.8

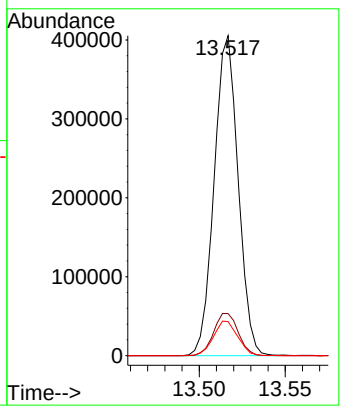




#79
Naphthalene
Concen: 16.888 ppbv
RT: 13.517 min Scan# 4
Delta R.T. 0.004 min
Lab File: VL042465.D
Acq: 01 May 2025 12:49

Tgt Ion:128 Resp: 39290

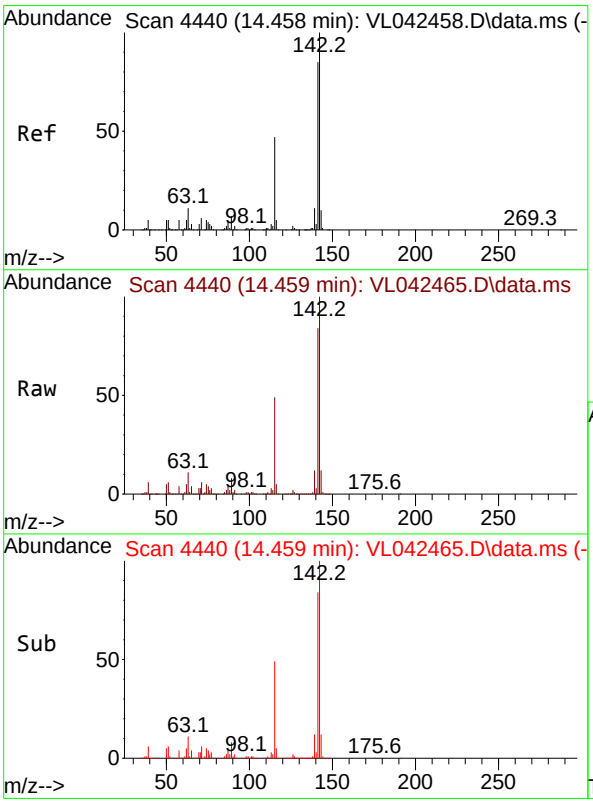
Ion	Ratio	Lower	Upper
128	100		
127	13.2	9.7	14.5
129	10.6	8.6	13.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

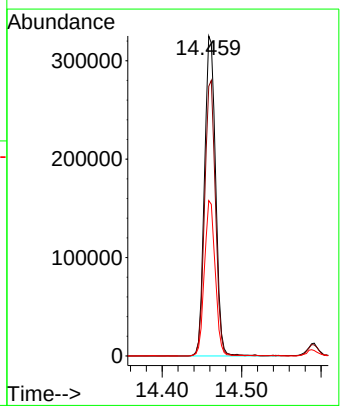
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

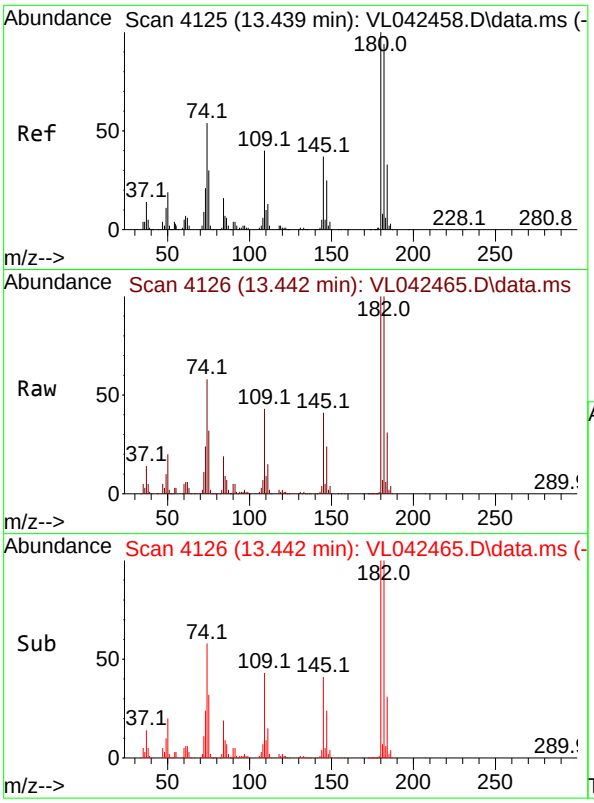


#80
Naphthalene,2-methyl-
Concen: 18.232 ppbv
RT: 14.459 min Scan# 4440
Delta R.T. 0.000 min
Lab File: VL042465.D
Acq: 01 May 2025 12:49

Tgt Ion:142 Resp: 316493

Ion	Ratio	Lower	Upper
142	100		
141	84.6	67.4	101.0
115	47.5	36.9	55.3

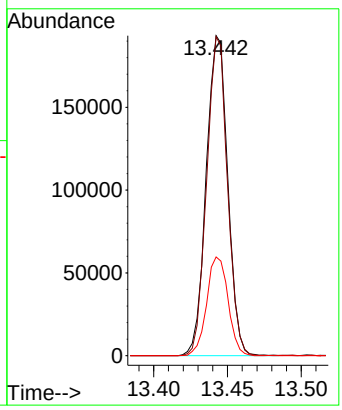




#81
1,2,4-Trichlorobenzene
Concen: 15.728 ppbv
RT: 13.442 min Scan# 4
Delta R.T. 0.004 min
Lab File: VL042465.D
Acq: 01 May 2025 12:49

Tgt Ion:180 Resp: 19594

Ion	Ratio	Lower	Upper
180	100		
182	96.2	74.6	111.8
184	30.6	24.9	37.3



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050125\
Data File : VL042466.D
Acq On : 01 May 2025 14:10
Operator : SY/MD
Sample : VSTDICC0.03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 02 01:46:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Fri May 02 01:37:48 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.791	49	66546	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	186737	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	161050	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.380	95	148088	9.918	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 99.200%			
Target Compounds						Qvalue
5) Vinyl Chloride	1.580	62	151	0.033	ppbv	# 87
32) 1,1,1-Trichloroethane	3.370	97	595m	0.035	ppbv	
35) Carbon Tetrachloride	3.771	117	653m	0.040	ppbv	
38) Trichloroethene	4.551	130	135	0.020	ppbv	# 40
52) Tetrachloroethene	8.231	164	285m	0.042	ppbv	
63) 1,1,2,2-Tetrachloroethane	9.973	83	551m	0.038	ppbv	

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

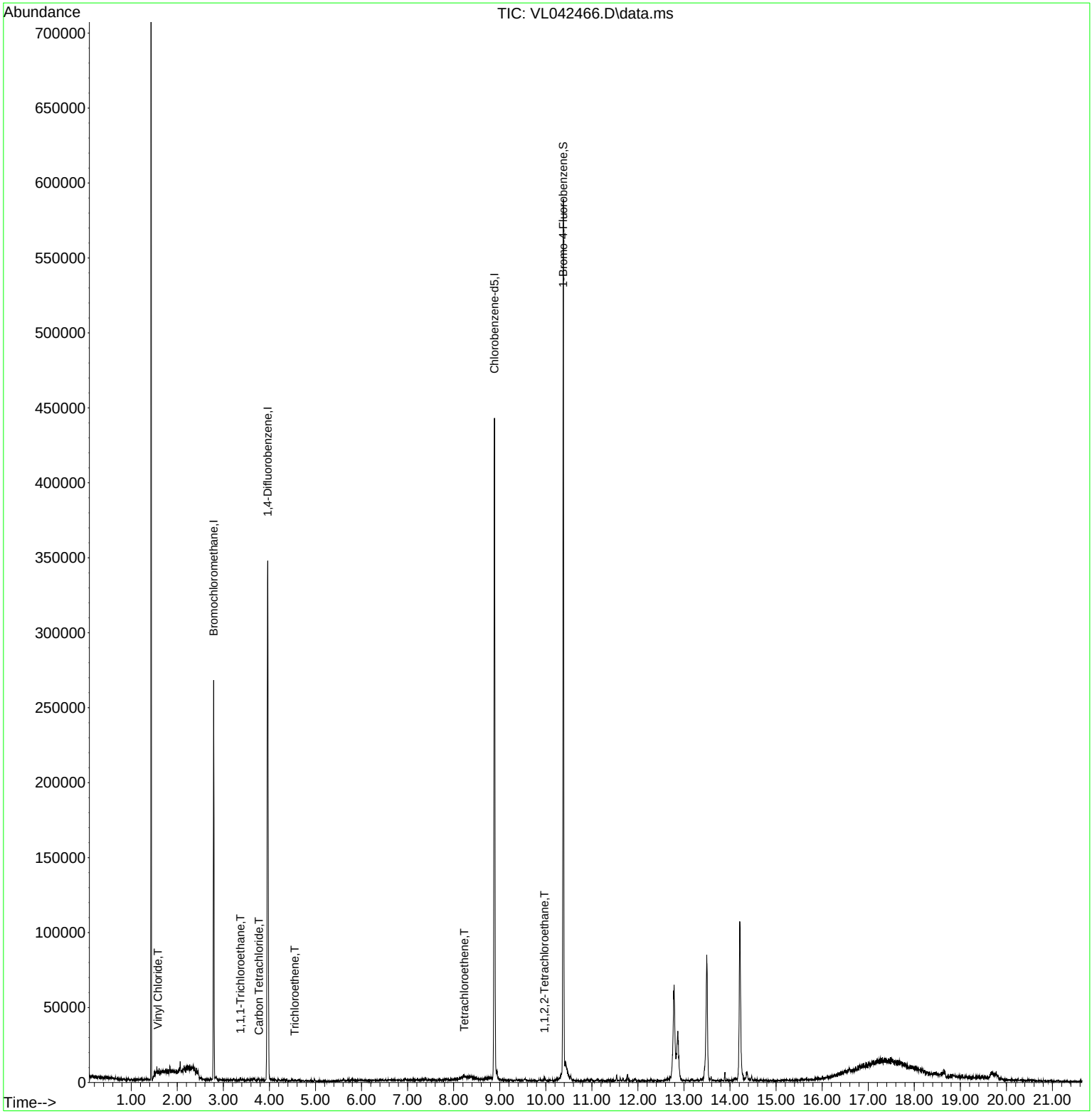
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050125\
Data File : VL042466.D
Acq On : 01 May 2025 14:10
Operator : SY/MD
Sample : VSTDICC0.03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

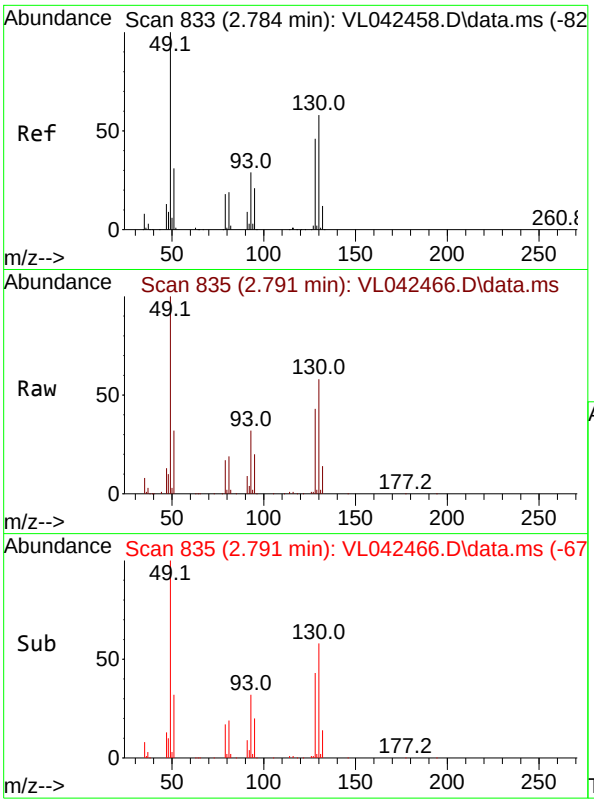
Quant Time: May 02 01:46:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri May 02 01:37:48 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

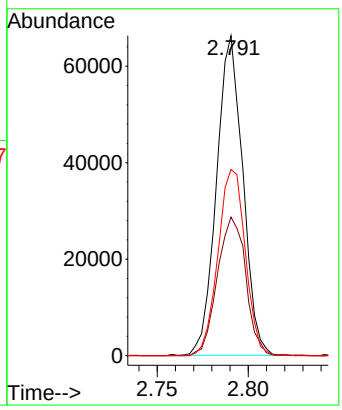




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.791 min Scan# 8
Delta R.T. 0.007 min
Lab File: VL042466.D
Acq: 01 May 2025 14:10

Tgt Ion: 49 Resp: 6654

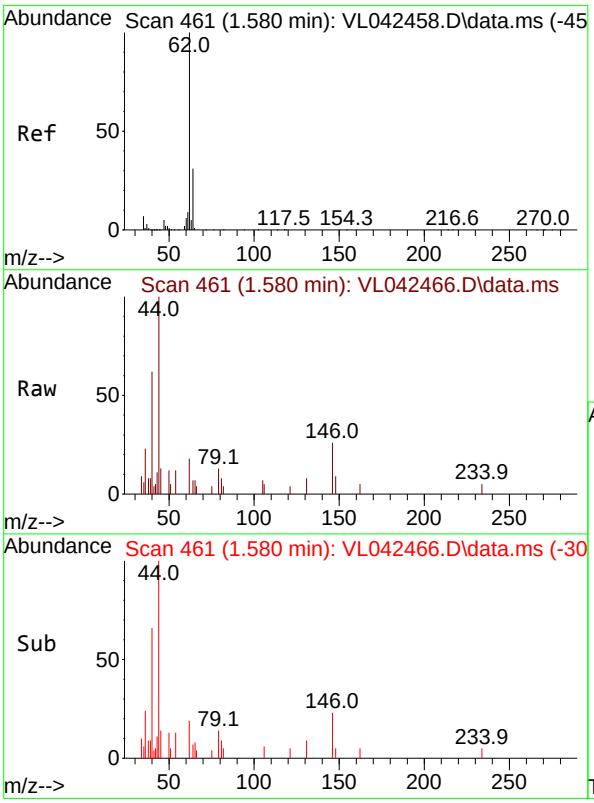
Ion	Ratio	Lower	Upper
49	100		
128	46.8	23.3	69.9
130	60.5	29.5	88.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Manual Integrations
APPROVED

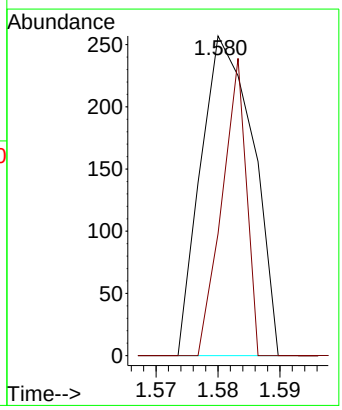
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

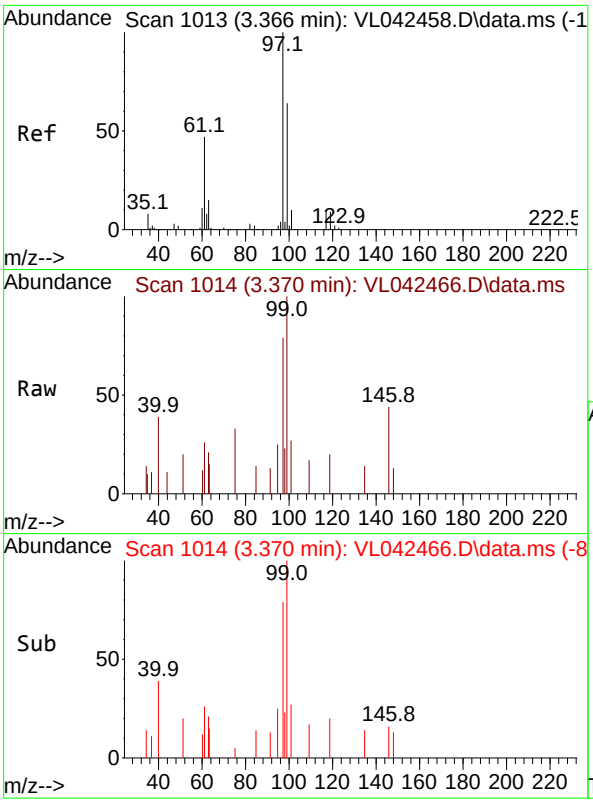


#5
Vinyl Chloride
Concen: 0.033 ppbv
RT: 1.580 min Scan# 461
Delta R.T. 0.000 min
Lab File: VL042466.D
Acq: 01 May 2025 14:10

Tgt Ion: 62 Resp: 151

Ion	Ratio	Lower	Upper
62	100		
64	38.1	24.9	37.3#

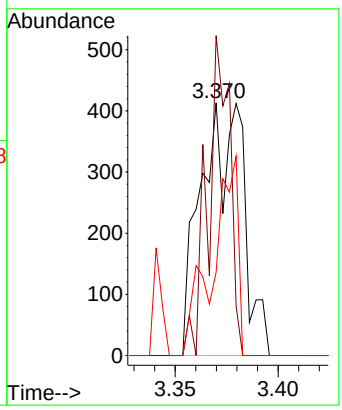




#32
1,1,1-Trichloroethane
Concen: 0.035 ppbv m
RT: 3.370 min Scan# 1
Delta R.T. 0.004 min
Lab File: VL042466.D
Acq: 01 May 2025 14:10

Tgt Ion: 97 Resp: 59

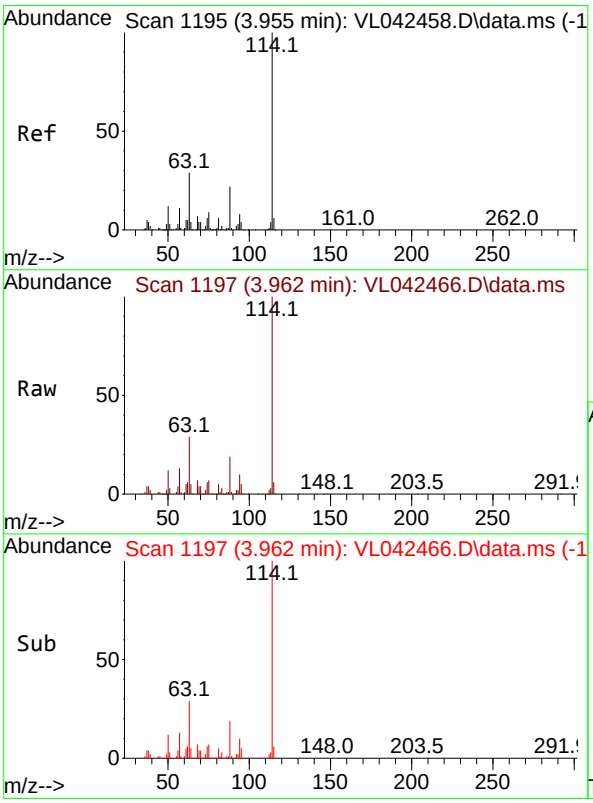
Ion	Ratio	Lower	Upper
97	100		
99	0.0	50.7	76.1#
61	55.5	40.9	61.3



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Manual Integrations
APPROVED

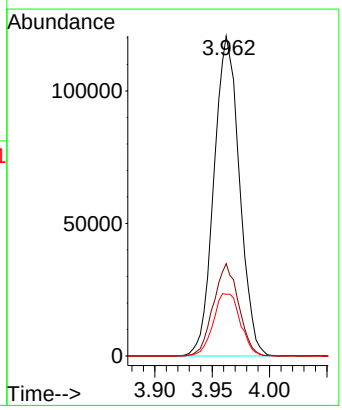
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

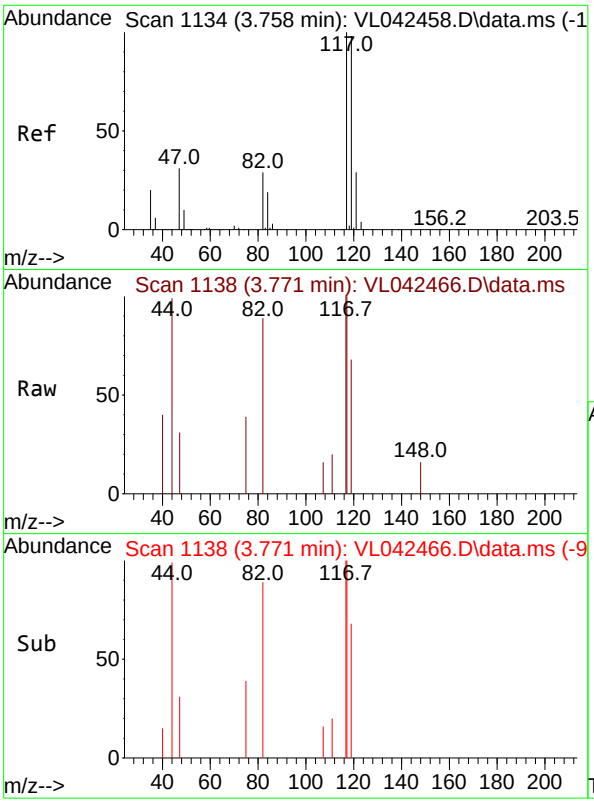


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.962 min Scan# 1197
Delta R.T. 0.007 min
Lab File: VL042466.D
Acq: 01 May 2025 14:10

Tgt Ion:114 Resp: 186737

Ion	Ratio	Lower	Upper
114	100		
63	28.5	23.1	34.7
88	20.7	16.1	24.1





#35
Carbon Tetrachloride
Concen: 0.040 ppbv m
RT: 3.771 min Scan# 1
Delta R.T. 0.013 min
Lab File: VL042466.D
Acq: 01 May 2025 14:10

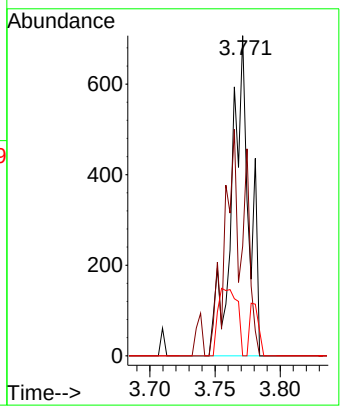
Tgt Ion:117 Resp: 65

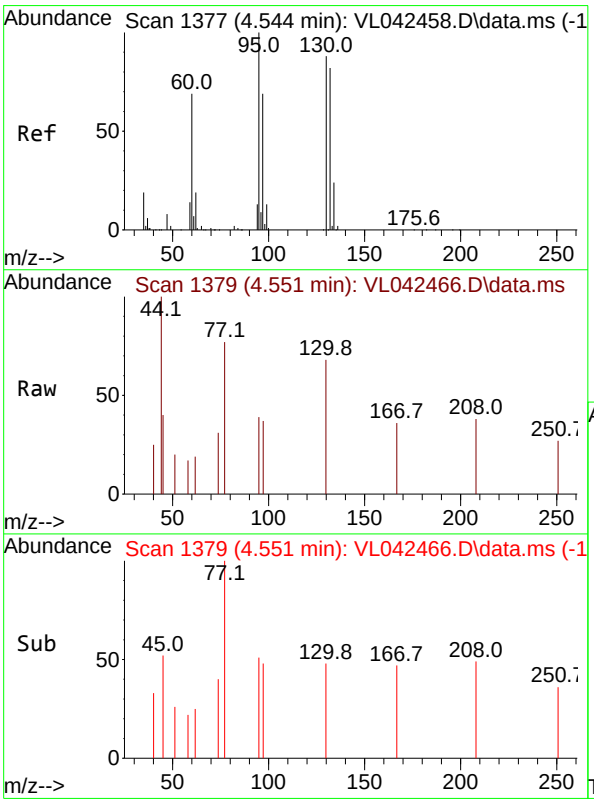
Ion	Ratio	Lower	Upper
117	100		
119	68.4	78.1	117.1#
121	0.0	23.0	34.6#

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

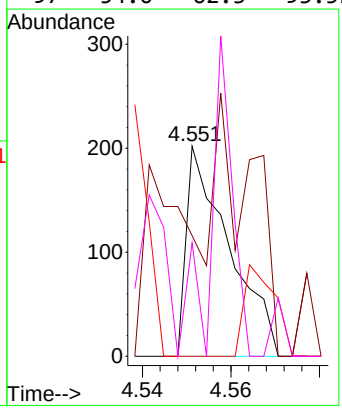


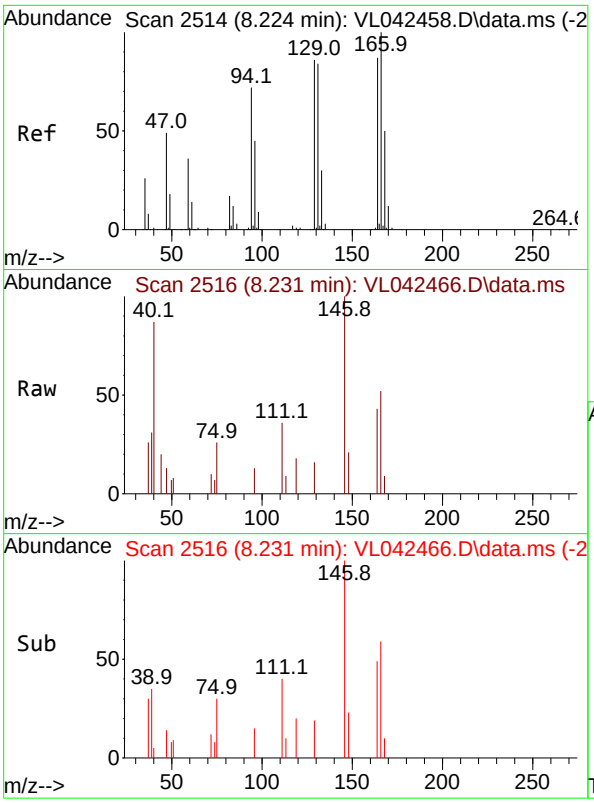


#38
Trichloroethene
Concen: 0.020 ppbv
RT: 4.551 min Scan# 1379
Delta R.T. 0.007 min
Lab File: VL042466.D
Acq: 01 May 2025 14:10

Tgt Ion:130 Resp: 135

Ion	Ratio	Lower	Upper
130	100		
95	57.4	91.0	136.4#
132	0.0	74.2	111.4#
97	54.0	62.3	93.5#

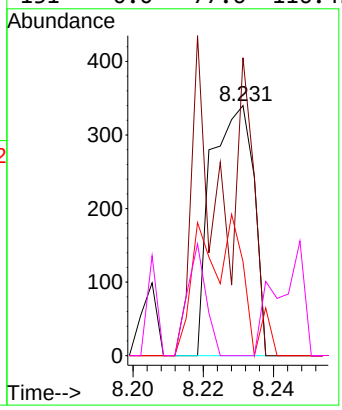




#52
Tetrachloroethene
Concen: 0.042 ppbv m
RT: 8.231 min Scan# 2
Delta R.T. 0.007 min
Lab File: VL042466.D
Acq: 01 May 2025 14:10

Tgt Ion:164 Resp: 28

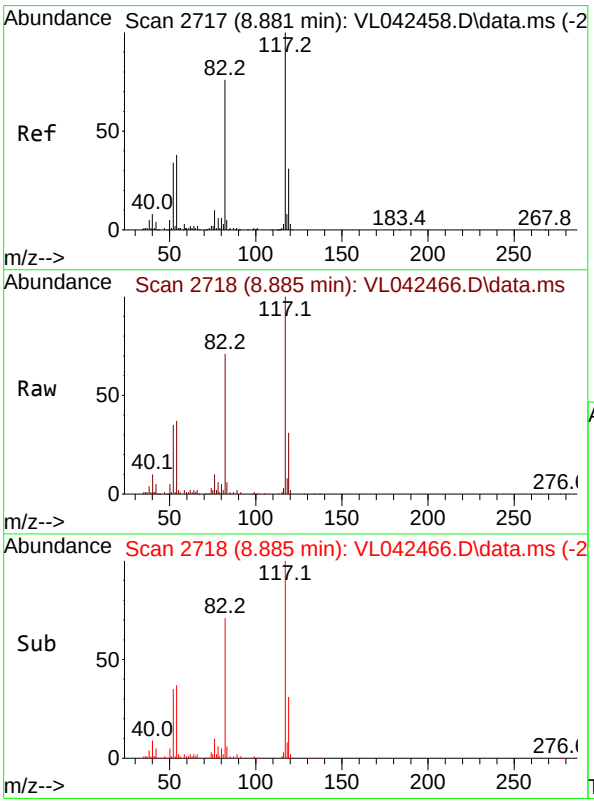
Ion	Ratio	Lower	Upper
164	100		
166	119.1	91.6	137.4
129	37.6	79.0	118.4#
131	0.0	77.6	116.4#



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Manual Integrations
APPROVED

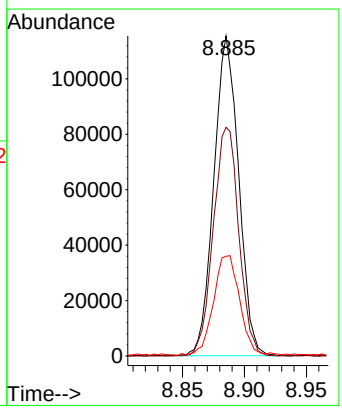
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

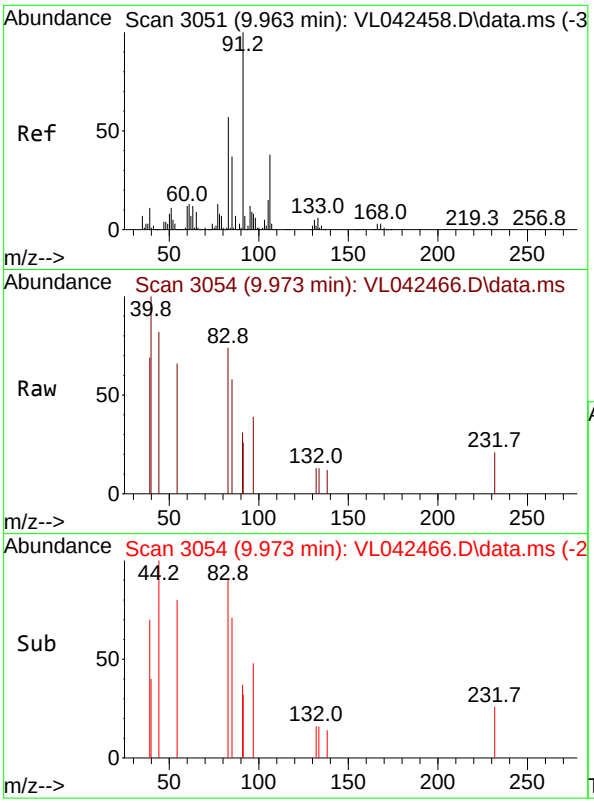


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.885 min Scan# 2718
Delta R.T. 0.004 min
Lab File: VL042466.D
Acq: 01 May 2025 14:10

Tgt Ion:117 Resp: 161050

Ion	Ratio	Lower	Upper
117	100		
82	73.6	63.5	95.3
119	33.8	25.8	38.8

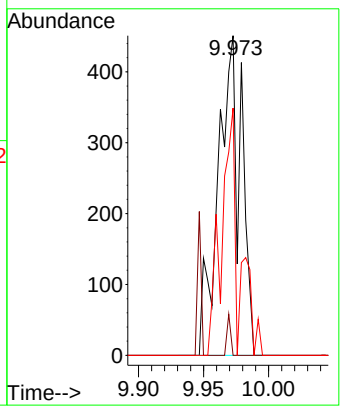




#63
1,1,2,2-Tetrachloroethane
Concen: 0.038 ppbv m
RT: 9.973 min Scan# 3
Delta R.T. 0.010 min
Lab File: VL042466.D
Acq: 01 May 2025 14:10

Tgt Ion: 83 Resp: 55

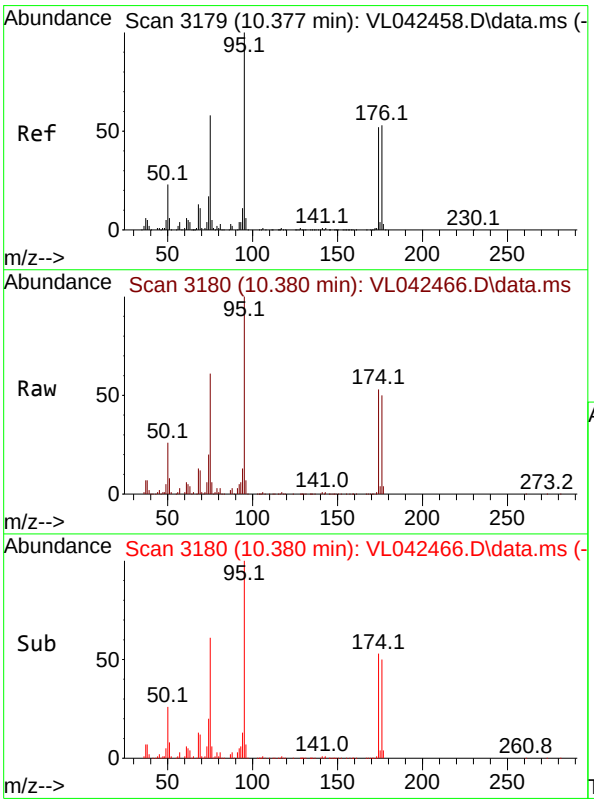
Ion	Ratio	Lower	Upper
83	100		
131	0.0	4.7	14.1#
85	59.2	32.5	97.4



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Manual Integrations
APPROVED

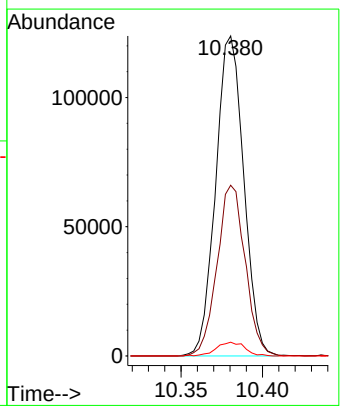
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025



#68
1-Bromo-4-Fluorobenzene
Concen: 9.918 ppbv
RT: 10.380 min Scan# 3180
Delta R.T. 0.004 min
Lab File: VL042466.D
Acq: 01 May 2025 14:10

Tgt Ion: 95 Resp: 148088

Ion	Ratio	Lower	Upper
95	100		
174	53.5	42.7	64.1
175	4.4	3.6	5.4



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050125\
Data File : VL042467.D
Acq On : 01 May 2025 15:46
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 02 03:48:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Fri May 02 03:16:31 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
ICVVL050125

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.790	49	63539	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	183679	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	156982	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.380	95	150522	10.342	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 103.400%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	108782	10.346	ppbv	97
3) Chlorodifluoromethane	1.476	51	110290	9.921	ppbv	98
4) Chloromethane	1.534	50	43950	10.001	ppbv	96
5) Vinyl Chloride	1.580	62	41181	9.307	ppbv	99
6) Bromomethane	1.667	94	21021	10.055	ppbv	91
7) Chloroethane	1.706	64	16630	10.179	ppbv	90
8) Dichlorotetrafluoroethane	1.554	85	89345	10.307	ppbv	99
9) Propene	1.486	41	36920	10.153	ppbv	97
10) Heptane	4.985	43	94631	10.033	ppbv	95
11) Trichlorofluoromethane	1.878	101	100713	10.380	ppbv	99
12) 1,1,2-Trichlorotrifluo...	2.140	101	81143	10.474	ppbv	99
13) Ethanol	1.722	45	5736	7.773	ppbv	99
14) Bromoethene	1.780	108	30094	10.522	ppbv	97
15) Acetone	1.835	43	95460	8.230	ppbv	98
16) 1,3-Butadiene	1.609	39	49566	9.689	ppbv	100
17) tert-Butyl alcohol	2.043	59	102047	9.986	ppbv	100
18) 1,1-Dichloroethene	2.033	96	35784	9.892	ppbv	98
19) Isopropyl Alcohol	1.887	45	60977	9.499	ppbv	99
20) Methylene Chloride	2.062	84	31212	8.951	ppbv	94
21) Allyl Chloride	2.098	41	73365	9.835	ppbv	94
22) trans-1,2-Dichloroethene	2.340	96	42922	10.160	ppbv	96
23) Vinyl Acetate	2.463	43	113131	10.220	ppbv #	98
24) 1,1-Dichloroethane	2.408	63	89117	10.340	ppbv	97
25) Ethyl Acetate	2.839	43	186185	10.025	ppbv	99
26) Hexane	2.826	57	83132	10.275	ppbv	96
27) Carbon Disulfide	2.149	76	100196	10.612	ppbv	96
28) Methyl tert-Butyl Ether	2.441	73	48326	9.942	ppbv	100
29) Chloroform	2.852	83	152381	10.050	ppbv	96
30) Cyclohexane	3.858	84	70581	10.434	ppbv	98
31) cis-1,2-Dichloroethene	2.722	61	95793	10.148	ppbv	96
32) 1,1,1-Trichloroethane	3.370	97	161465	9.816	ppbv	99
34) 2-Butanone	2.560	43	125883	9.475	ppbv	97
35) Carbon Tetrachloride	3.764	117	166814	9.998	ppbv	97
36) Benzene	3.658	78	171384	9.888	ppbv	98
37) 1,2-Dichloroethane	3.221	62	130063	9.736	ppbv	100
38) Trichloroethene	4.551	130	65940	9.976	ppbv	96
39) 1,2-Dichloropropane	4.315	63	60010	9.248	ppbv	95
40) 1,4-Dioxane	4.583	88	28306m	9.316	ppbv	
41) Tetrahydrofuran	3.059	42	59604	9.440	ppbv	98
42) Bromodichloromethane	4.489	83	163210	9.999	ppbv	95
43) Methyl Methacrylate	4.881	69	67516	10.438	ppbv	99
44) 2,2,4-Trimethylpentane	4.642	57	277217	9.867	ppbv	100
45) t-1,3-Dichloropropene	6.415	75	89638m	10.563	ppbv	

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050125\
Data File : VL042467.D
Acq On : 01 May 2025 15:46
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 02 03:48:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Fri May 02 03:16:31 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
ICVVL050125

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) cis-1,3-Dichloropropene	5.609	75	104665	10.378	ppbv		97
47) 1,1,2-Trichloroethane	6.584	97	67821	9.530	ppbv		95
48) Dibromochloromethane	7.393	129	121381	10.103	ppbv		97
49) Bromoform	9.487	173	102150	10.138	ppbv		100
50) 4-Methyl-2-Pentanone	5.752	43	159280	9.478	ppbv		99
51) 2-Hexanone	7.438	43	126396	9.407	ppbv	#	98
52) Tetrachloroethene	8.228	164	58272	8.832	ppbv		96
53) Toluene	6.940	91	191922	10.461	ppbv		99
54) 1,2-Dibromoethane	7.658	107	105149	9.664	ppbv		95
56) 1,1,1,2-Tetrachloroethane	8.927	131	92337	9.959	ppbv		97
57) Chlorobenzene	8.927	112	148759	9.431	ppbv		92
58) Ethyl Benzene	9.357	91	280660	10.698	ppbv		99
59) m/p-Xylene	9.555	91	468984m	21.324	ppbv		
60) o-Xylene	9.966	91	238347	10.824	ppbv		97
61) Styrene	9.872	104	91128	11.090	ppbv		97
62) Isopropylbenzene	10.542	105	337992	10.641	ppbv		99
63) 1,1,2,2-Tetrachloroethane	9.966	83	140306	9.242	ppbv		100
64) n-propylbenzene	10.992	120	79983	10.303	ppbv		99
65) tert-Butylbenzene	11.536	119	302506	10.672	ppbv		99
66) Benzyl Chloride	11.617	91	34933	10.663	ppbv		97
67) sec-Butylbenzene	11.769	105	425444	10.562	ppbv		99
69) p-Isopropyltoluene	11.927	119	363563	10.712	ppbv		98
70) n-Butylbenzene	12.283	91	371369	10.585	ppbv		99
71) 2-Chlorotoluene	10.905	91	264063	10.599	ppbv		99
72) 4-Ethyltoluene	11.128	105	287375	11.069	ppbv		99
73) 1,3,5-Trimethylbenzene	11.206	105	247128	10.823	ppbv		93
74) 1,2,4-Trimethylbenzene	11.539	105	278306	10.074	ppbv		98
75) 1,3-Dichlorobenzene	11.610	146	150026	9.754	ppbv		99
76) 1,4-Dichlorobenzene	11.675	146	151740	10.425	ppbv		97
77) 1,2-Dichlorobenzene	11.950	146	146314	9.719	ppbv		99
78) Hexachloro-1,3-Butadiene	13.882	225	133688	8.893	ppbv		99
79) Naphthalene	13.516	128	251318	10.806	ppbv		98
80) Naphthalene,2-methyl-	14.458	142	198604	11.489	ppbv		99
81) 1,2,4-Trichlorobenzene	13.442	180	129406	10.433	ppbv		98

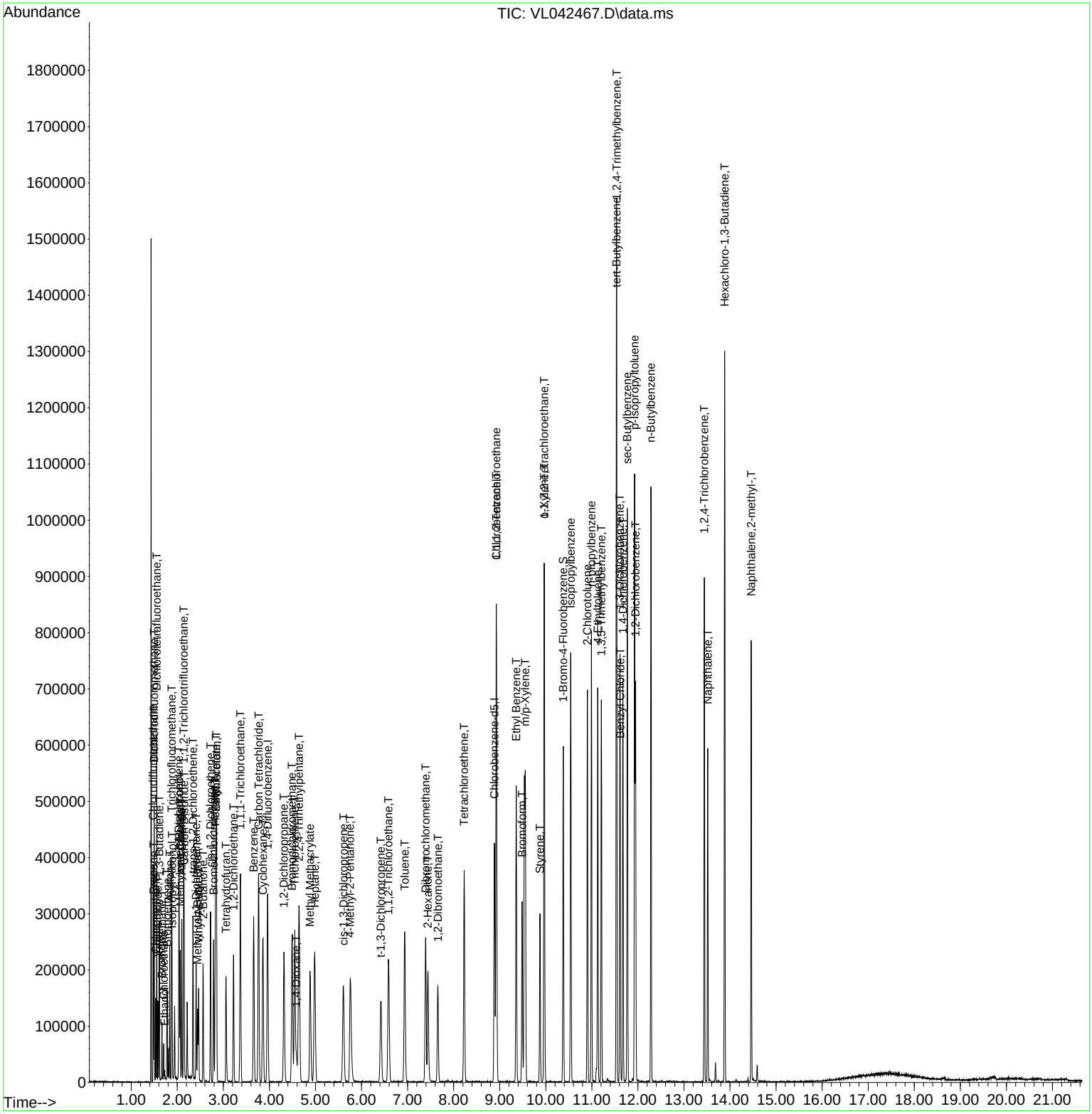
(#) = qualifier out of range (m) = manual integration (+) = signals summed

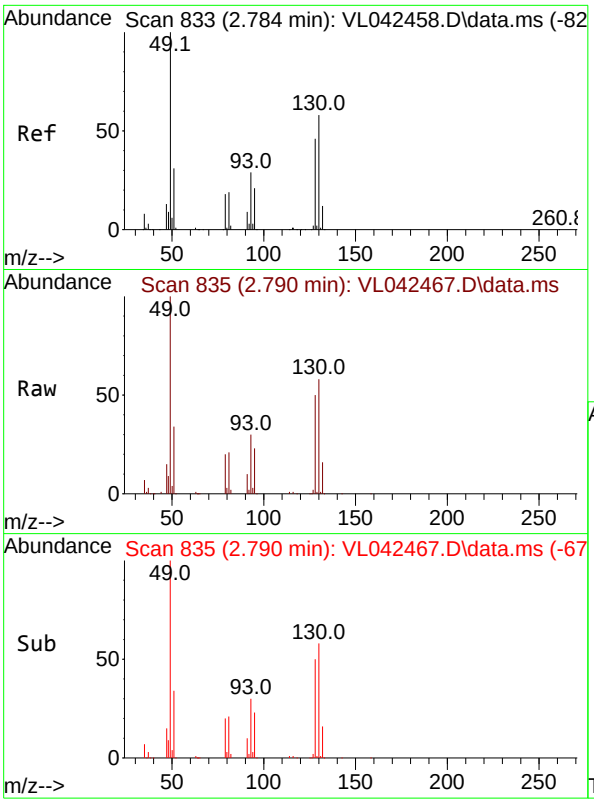
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050125\
Data File : VL042467.D
Acq On : 01 May 2025 15:46
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 02 03:48:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri May 02 03:16:31 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
ICVVL050125

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

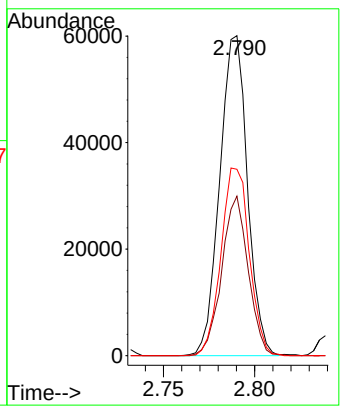




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 8
Delta R.T. 0.006 min
Lab File: VL042467.D
Acq: 01 May 2025 15:46

Tgt Ion: 49 Resp: 6353

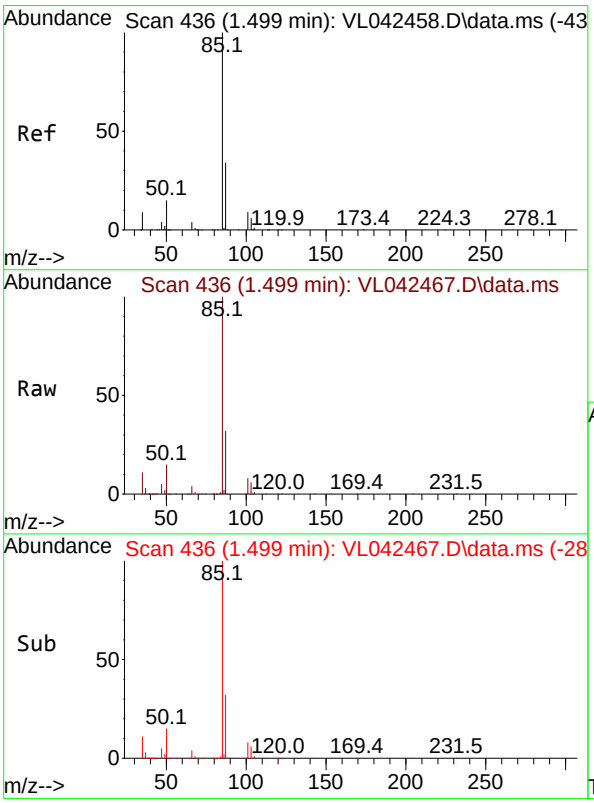
Ion	Ratio	Lower	Upper
49	100		
128	47.6	23.3	69.9
130	60.0	29.5	88.6



Instrument :
MSVOA_L
ClientSampleId :
ICVVL050125

Manual Integrations
APPROVED

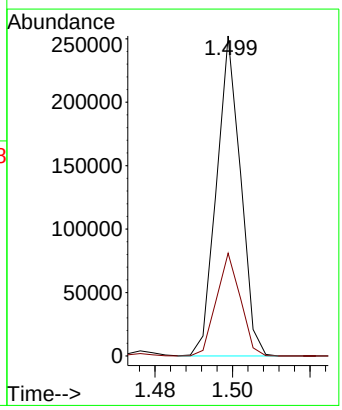
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

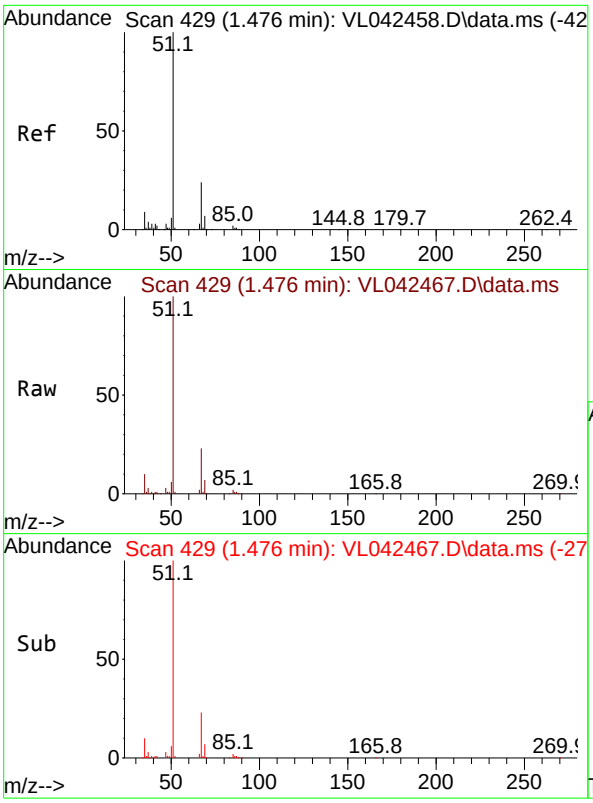


#2
Dichlorodifluoromethane
Concen: 10.346 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.000 min
Lab File: VL042467.D
Acq: 01 May 2025 15:46

Tgt Ion: 85 Resp: 108782

Ion	Ratio	Lower	Upper
85	100		
87	32.1	26.9	40.3

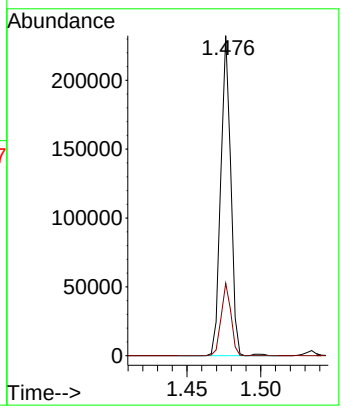




#3
Chlorodifluoromethane
Concen: 9.921 ppbv
RT: 1.476 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042467.D
Acq: 01 May 2025 15:46

Tgt Ion: 51 Resp: 11029

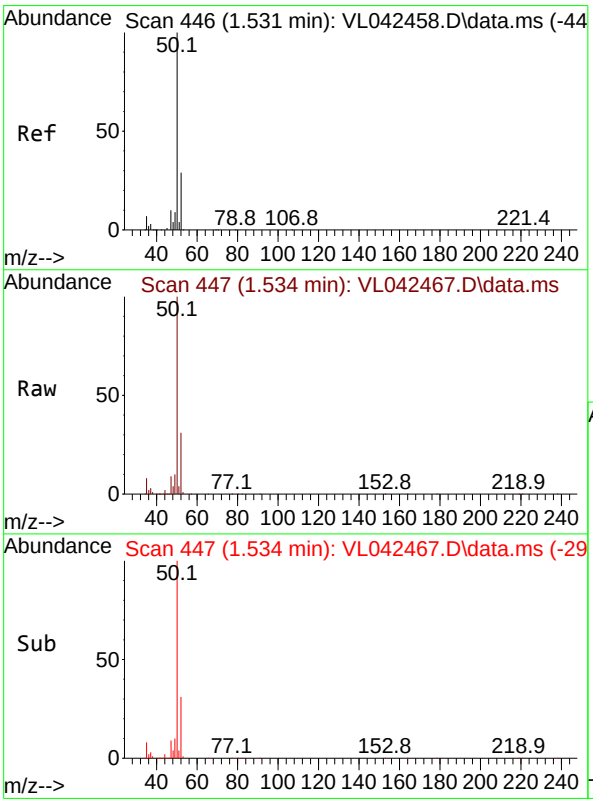
Ion	Ratio	Lower	Upper
51	100		
67	22.1	18.4	27.6



Instrument :
MSVOA_L
ClientSampleId :
ICVVL050125

Manual Integrations
APPROVED

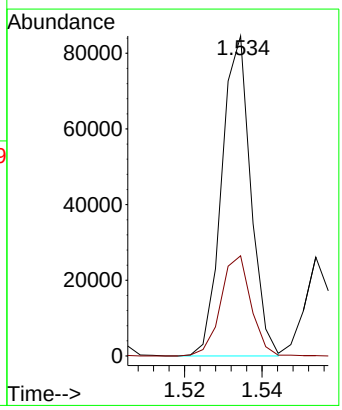
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

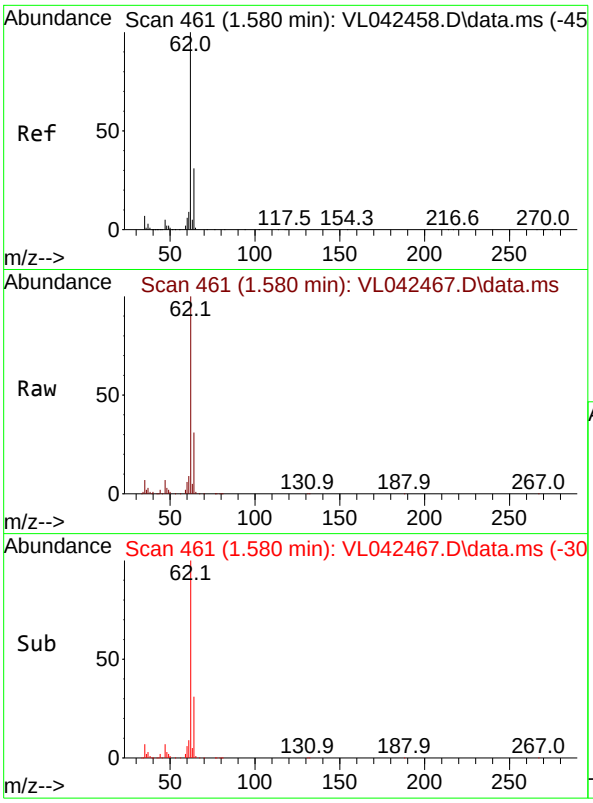


#4
Chloromethane
Concen: 10.001 ppbv
RT: 1.534 min Scan# 447
Delta R.T. 0.003 min
Lab File: VL042467.D
Acq: 01 May 2025 15:46

Tgt Ion: 50 Resp: 43950

Ion	Ratio	Lower	Upper
50	100		
52	31.3	23.5	35.3

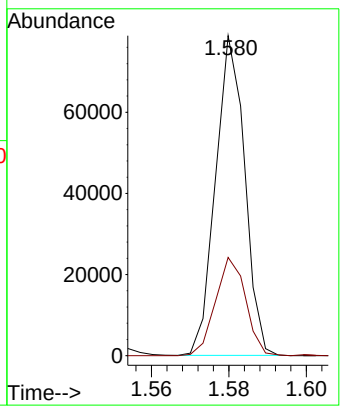




#5
Vinyl Chloride
Concen: 9.307 ppbv
RT: 1.580 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042467.D
Acq: 01 May 2025 15:46

Tgt Ion: 62 Resp: 4118

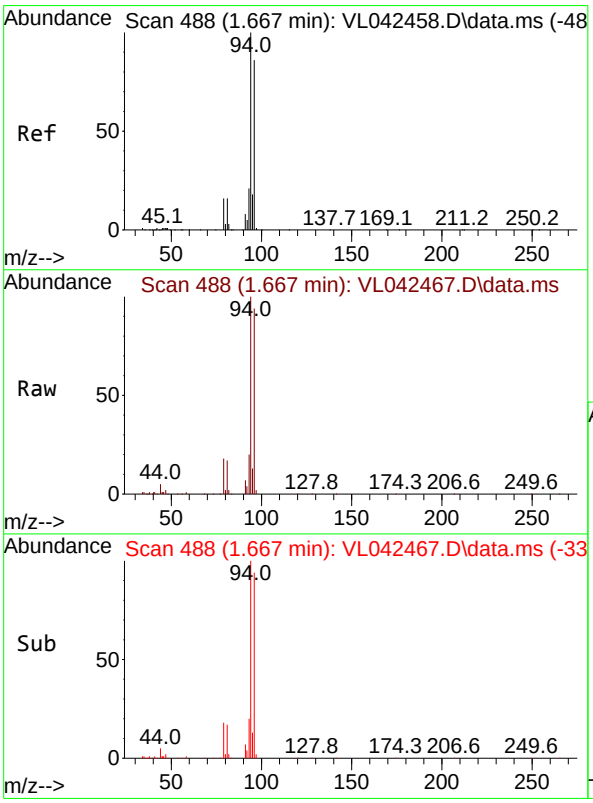
Ion	Ratio	Lower	Upper
62	100		
64	30.7	24.9	37.3



Instrument :
MSVOA_L
ClientSampleId :
ICVVL050125

Manual Integrations
APPROVED

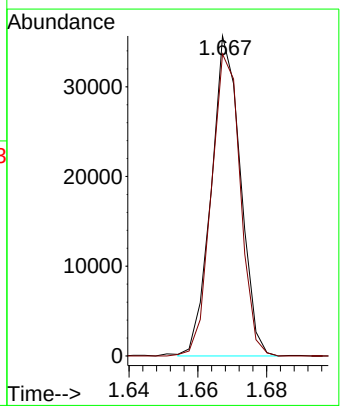
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

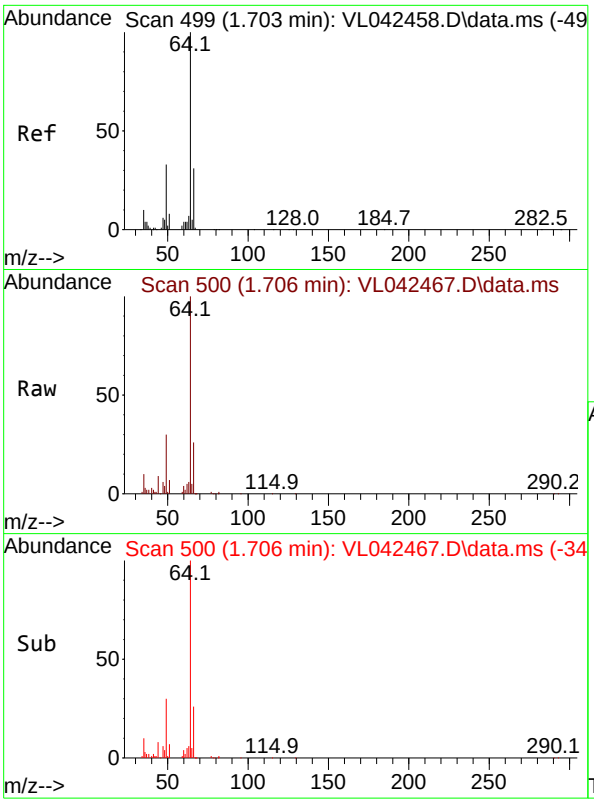


#6
Bromomethane
Concen: 10.055 ppbv
RT: 1.667 min Scan# 488
Delta R.T. 0.000 min
Lab File: VL042467.D
Acq: 01 May 2025 15:46

Tgt Ion: 94 Resp: 21021

Ion	Ratio	Lower	Upper
94	100		
96	94.3	68.8	103.2

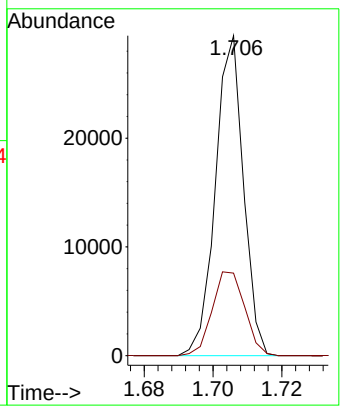




#7
Chloroethane
Concen: 10.179 ppbv
RT: 1.706 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042467.D
Acq: 01 May 2025 15:46

Tgt Ion: 64 Resp: 1663

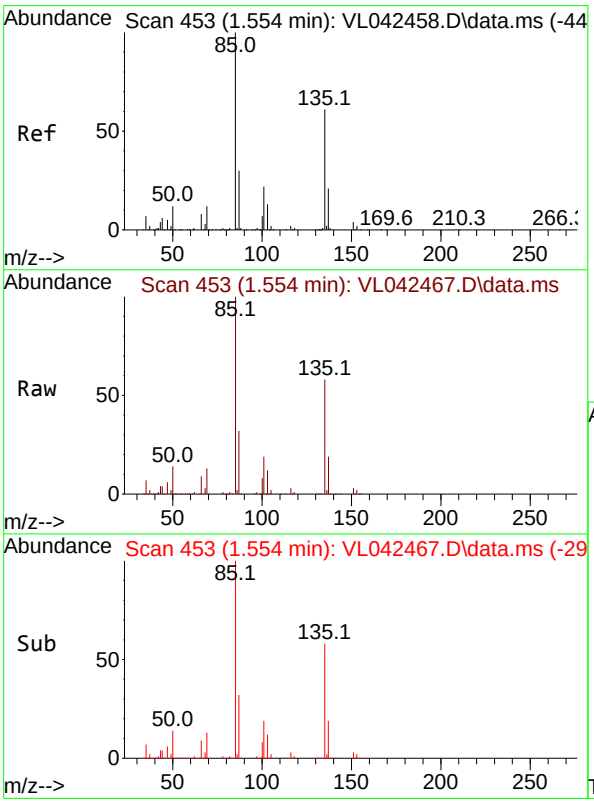
Ion	Ratio	Lower	Upper
64	100		
66	25.8	25.0	37.4



Instrument :
MSVOA_L
ClientSampleId :
ICVVL050125

Manual Integrations
APPROVED

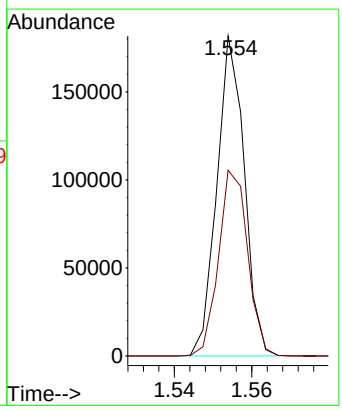
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

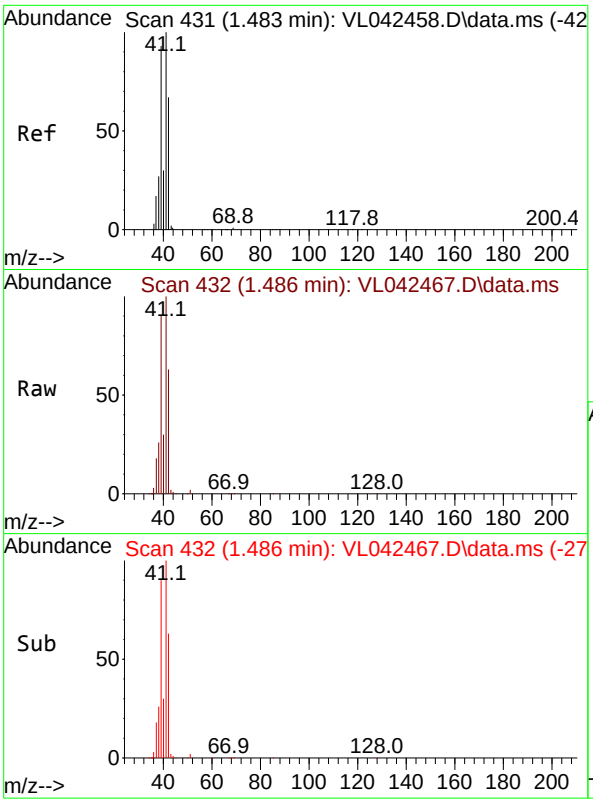


#8
Dichlorotetrafluoroethane
Concen: 10.307 ppbv
RT: 1.554 min Scan# 453
Delta R.T. 0.000 min
Lab File: VL042467.D
Acq: 01 May 2025 15:46

Tgt Ion: 85 Resp: 89345

Ion	Ratio	Lower	Upper
85	100		
135	61.7	49.8	74.8

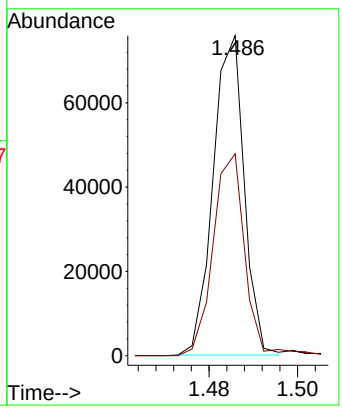




#9
Propene
Concen: 10.153 ppbv
RT: 1.486 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL042467.D
Acq: 01 May 2025 15:46

Tgt Ion: 41 Resp: 3692

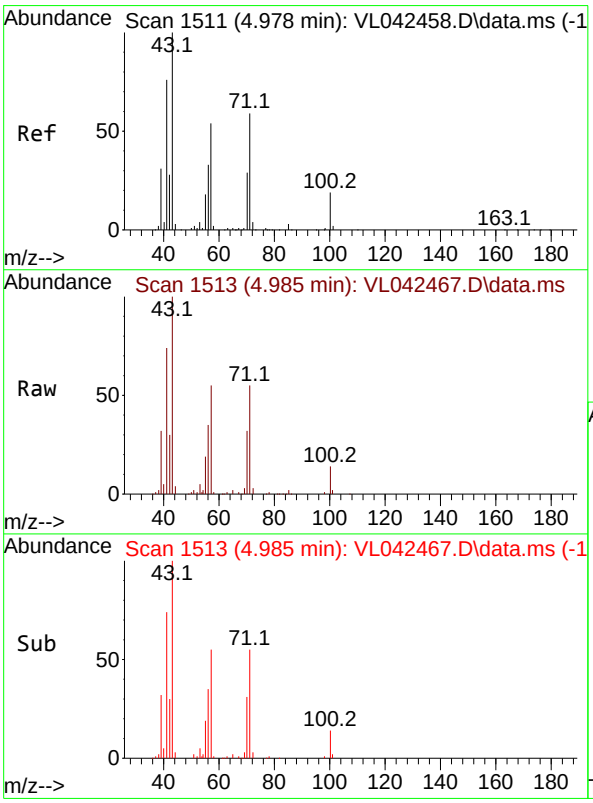
Ion	Ratio	Lower	Upper
41	100		
42	65.1	54.3	81.5



Instrument :
MSVOA_L
ClientSampleId :
ICVVL050125

Manual Integrations
APPROVED

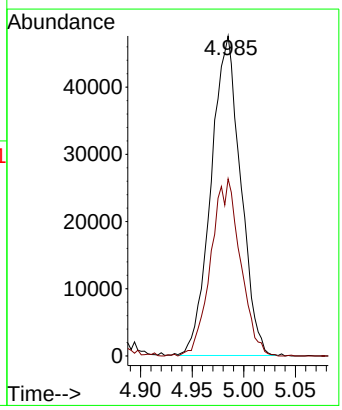
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

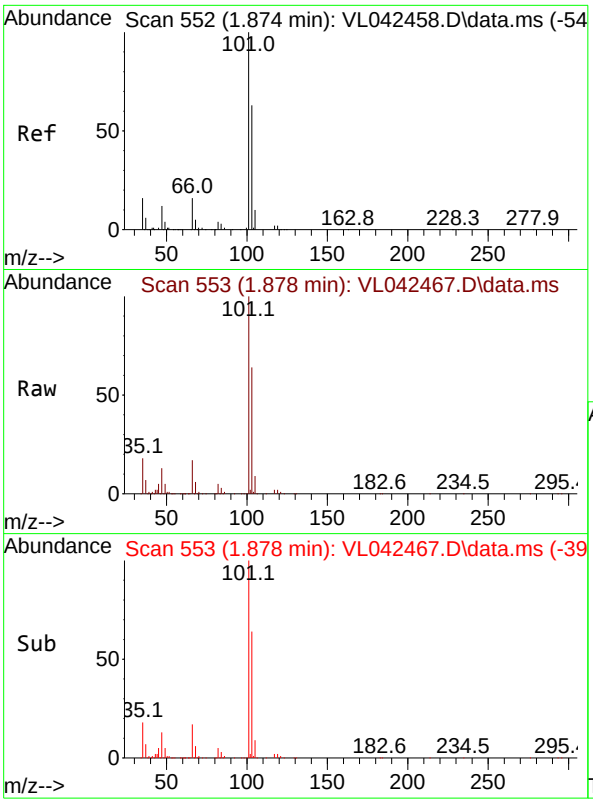


#10
Heptane
Concen: 10.033 ppbv
RT: 4.985 min Scan# 1513
Delta R.T. 0.007 min
Lab File: VL042467.D
Acq: 01 May 2025 15:46

Tgt Ion: 43 Resp: 94631

Ion	Ratio	Lower	Upper
43	100		
57	55.7	41.8	62.8

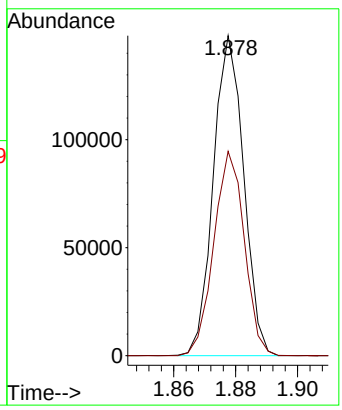




#11
Trichlorofluoromethane
Concen: 10.380 ppbv
RT: 1.878 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042467.D
Acq: 01 May 2025 15:46

Tgt Ion:101 Resp: 10071

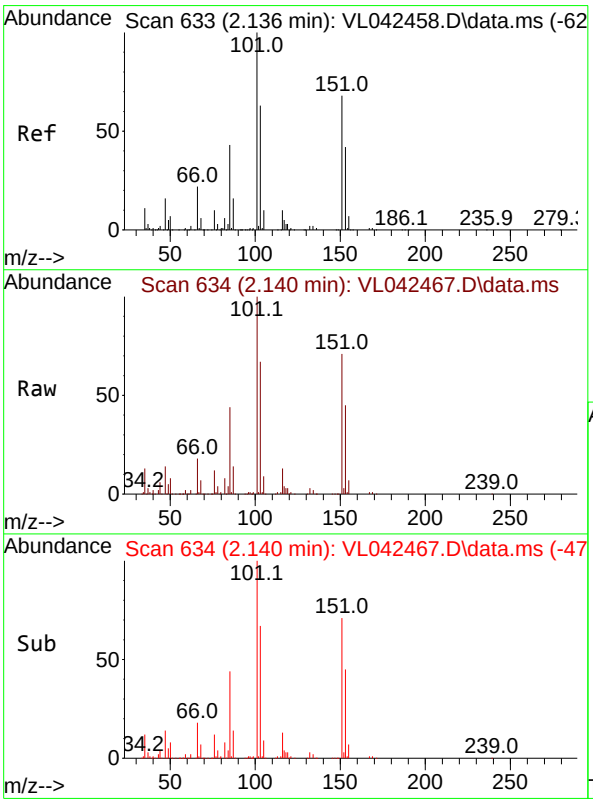
Ion	Ratio	Lower	Upper
101	100		
103	63.9	50.6	76.0



Instrument :
MSVOA_L
ClientSampleId :
ICVVL050125

Manual Integrations
APPROVED

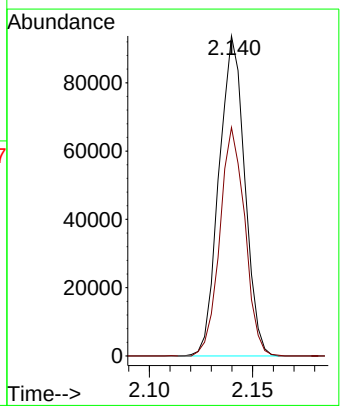
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

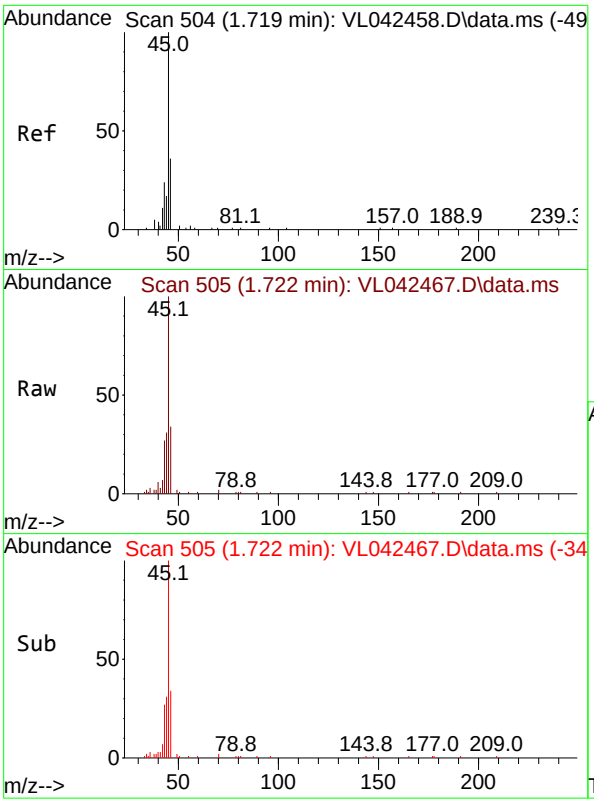


#12
1,1,2-Trichlorotrifluoroethane
Concen: 10.474 ppbv
RT: 2.140 min Scan# 634
Delta R.T. 0.003 min
Lab File: VL042467.D
Acq: 01 May 2025 15:46

Tgt Ion:101 Resp: 81143

Ion	Ratio	Lower	Upper
101	100		
151	69.5	54.6	82.0

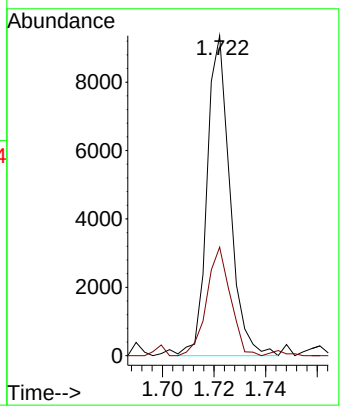




#13
Ethanol
Concen: 7.773 ppbv
RT: 1.722 min Scan# 5(
Delta R.T. 0.003 min
Lab File: VL042467.D
Acq: 01 May 2025 15:46

Tgt Ion: 45 Resp: 573(

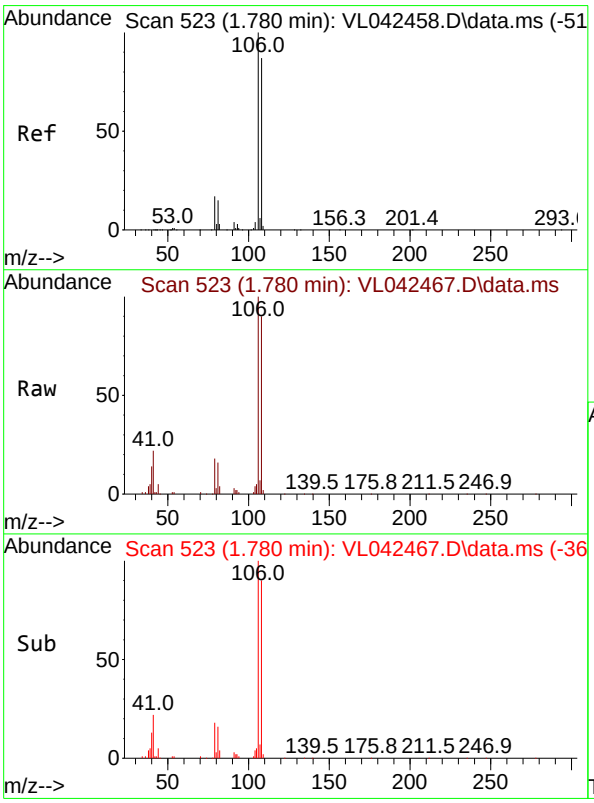
Ion	Ratio	Lower	Upper
45	100		
46	37.8	15.3	61.1



Instrument :
MSVOA_L
ClientSampleId :
ICVVL050125

Manual Integrations
APPROVED

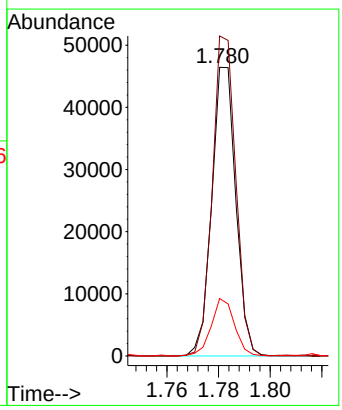
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

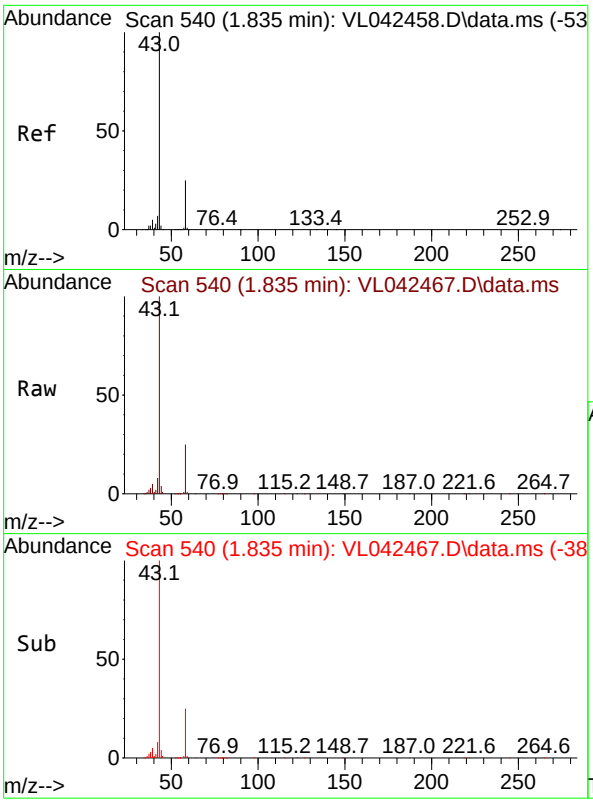


#14
Bromoethene
Concen: 10.522 ppbv
RT: 1.780 min Scan# 523
Delta R.T. 0.000 min
Lab File: VL042467.D
Acq: 01 May 2025 15:46

Tgt Ion:108 Resp: 30094

Ion	Ratio	Lower	Upper
108	100		
106	108.0	88.8	133.2
79	19.8	17.1	25.7

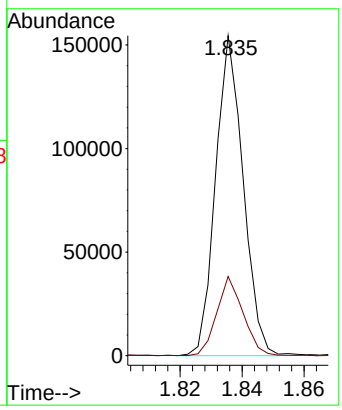




#15
Acetone
Concen: 8.230 ppbv
RT: 1.835 min Scan# 54
Delta R.T. 0.000 min
Lab File: VL042467.D
Acq: 01 May 2025 15:46

Tgt Ion: 43 Resp: 9546

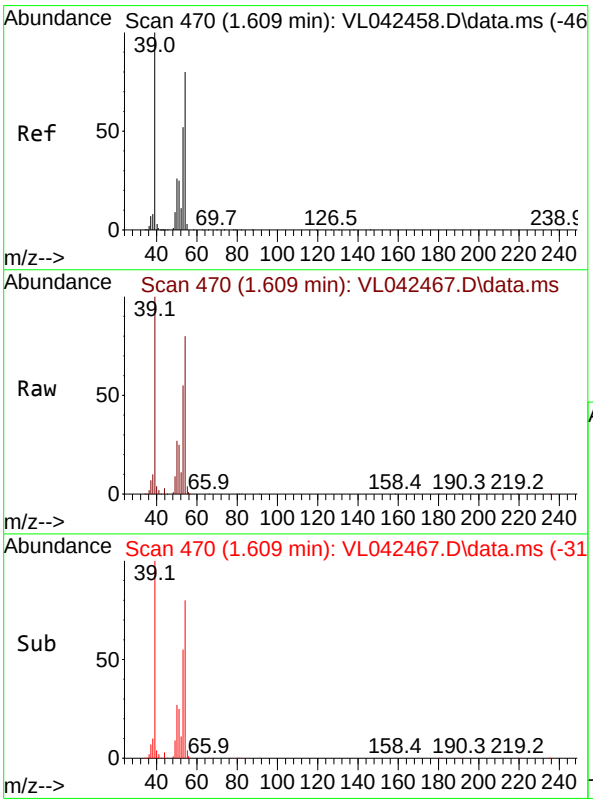
Ion	Ratio	Lower	Upper
43	100		
58	23.9	19.8	29.8



Instrument :
MSVOA_L
ClientSampleId :
ICVVL050125

Manual Integrations
APPROVED

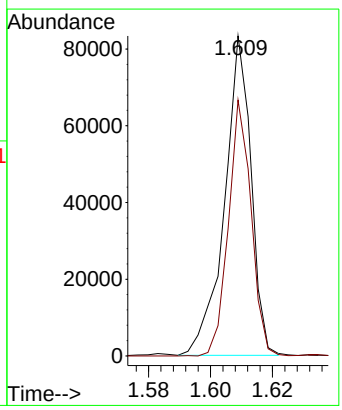
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

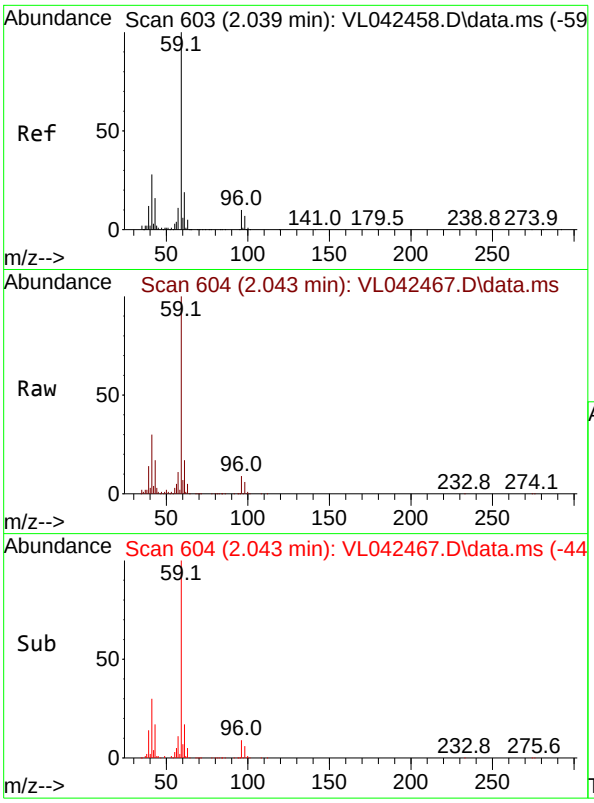


#16
1,3-Butadiene
Concen: 9.689 ppbv
RT: 1.609 min Scan# 470
Delta R.T. 0.000 min
Lab File: VL042467.D
Acq: 01 May 2025 15:46

Tgt Ion: 39 Resp: 49566

Ion	Ratio	Lower	Upper
39	100		
54	68.7	55.2	82.8

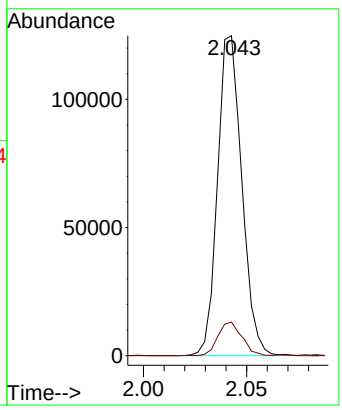




#17
tert-Butyl alcohol
Concen: 9.986 ppbv
RT: 2.043 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL042467.D
Acq: 01 May 2025 15:46

Tgt Ion: 59 Resp: 10204

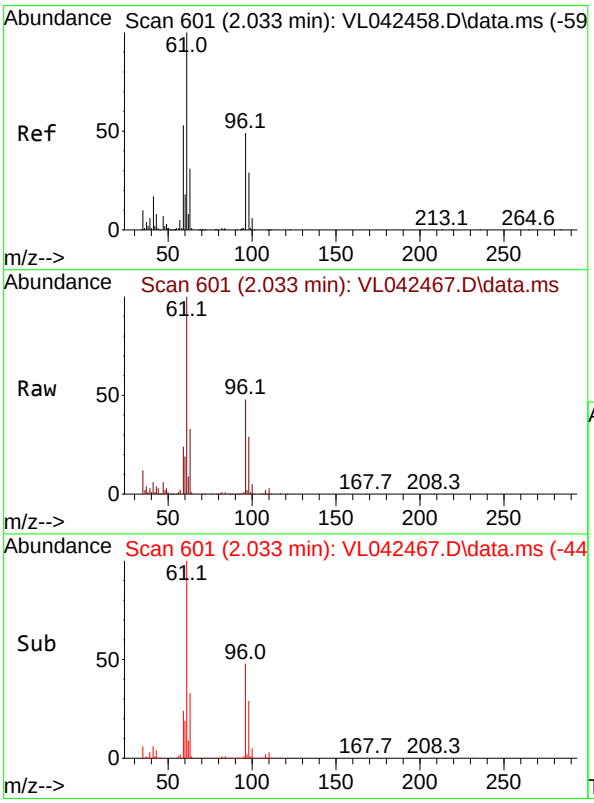
Ion	Ratio	Lower	Upper
59	100		
57	10.6	8.3	12.5



Instrument :
MSVOA_L
ClientSampleId :
ICVVL050125

Manual Integrations
APPROVED

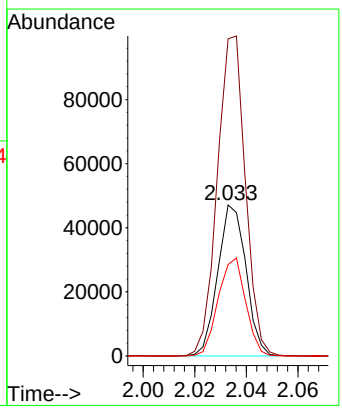
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

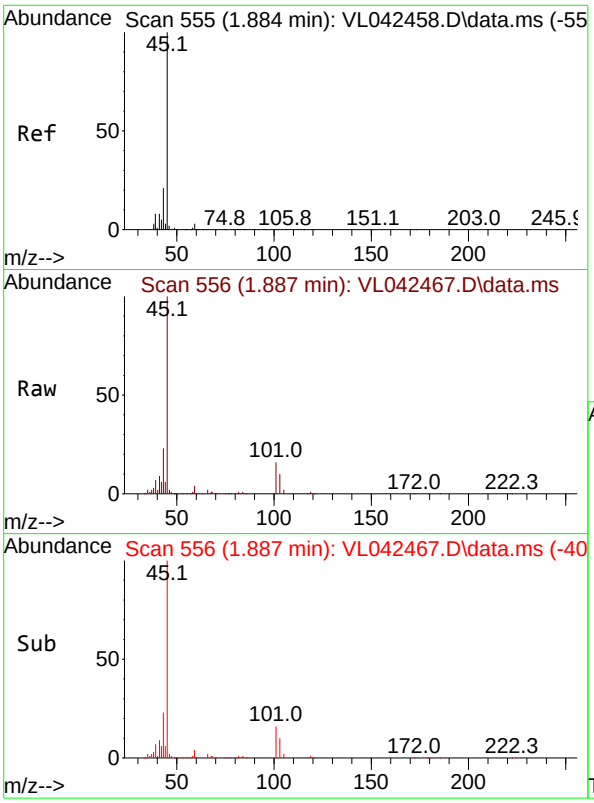


#18
1,1-Dichloroethene
Concen: 9.892 ppbv
RT: 2.033 min Scan# 601
Delta R.T. 0.000 min
Lab File: VL042467.D
Acq: 01 May 2025 15:46

Tgt Ion: 96 Resp: 35784

Ion	Ratio	Lower	Upper
96	100		
61	209.9	164.9	247.3
98	60.4	48.2	72.2

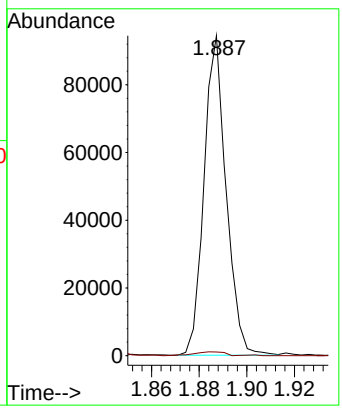




#19
Isopropyl Alcohol
Concen: 9.499 ppbv
RT: 1.887 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042467.D
Acq: 01 May 2025 15:46

Tgt Ion: 45 Resp: 6097

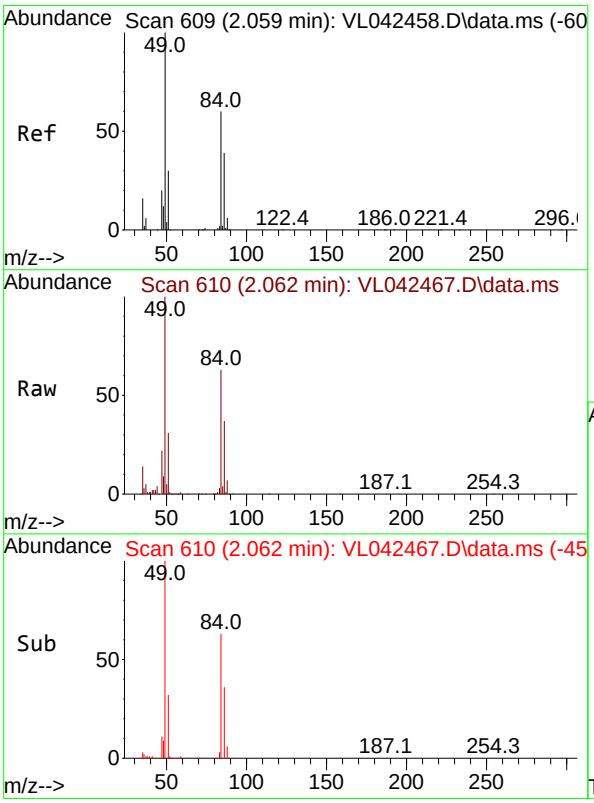
Ion	Ratio	Lower	Upper
45	100		
58	1.8	1.6	2.4



Instrument :
MSVOA_L
ClientSampleId :
ICVVL050125

Manual Integrations
APPROVED

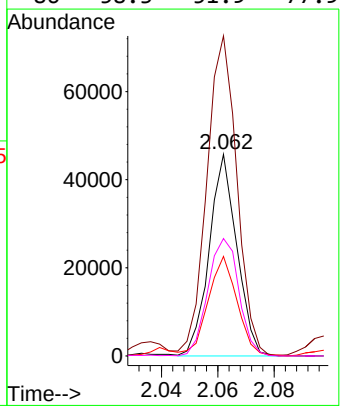
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

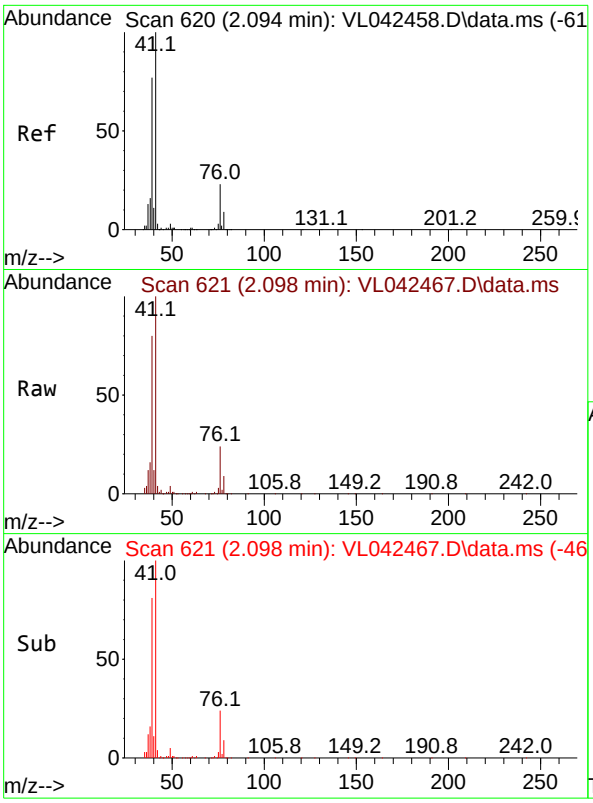


#20
Methylene Chloride
Concen: 8.951 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.003 min
Lab File: VL042467.D
Acq: 01 May 2025 15:46

Tgt Ion: 84 Resp: 31212

Ion	Ratio	Lower	Upper
84	100		
49	158.4	133.9	200.9
51	48.9	41.0	61.6
86	58.3	51.9	77.9

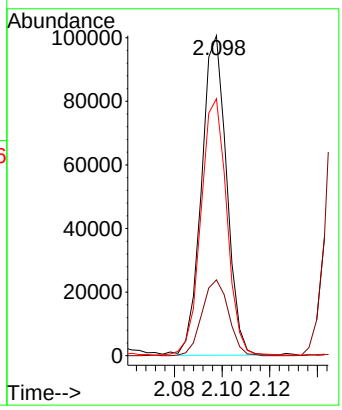




#21
Allyl Chloride
Concen: 9.835 ppbv
RT: 2.098 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL042467.D
Acq: 01 May 2025 15:46

Tgt Ion: 41 Resp: 7336

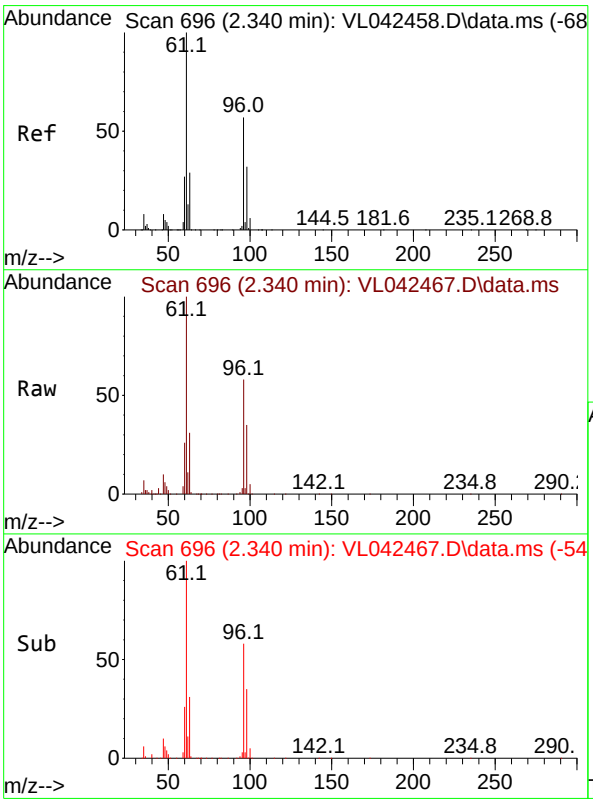
Ion	Ratio	Lower	Upper
41	100		
76	25.2	19.6	29.4
39	82.8	61.0	91.4



Instrument :
MSVOA_L
ClientSampleId :
ICVVL050125

Manual Integrations
APPROVED

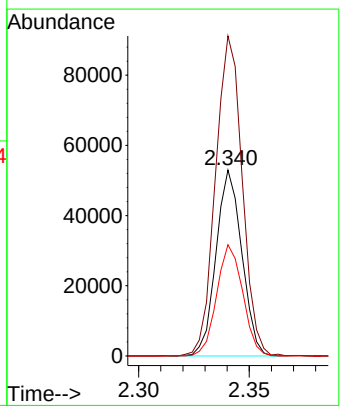
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

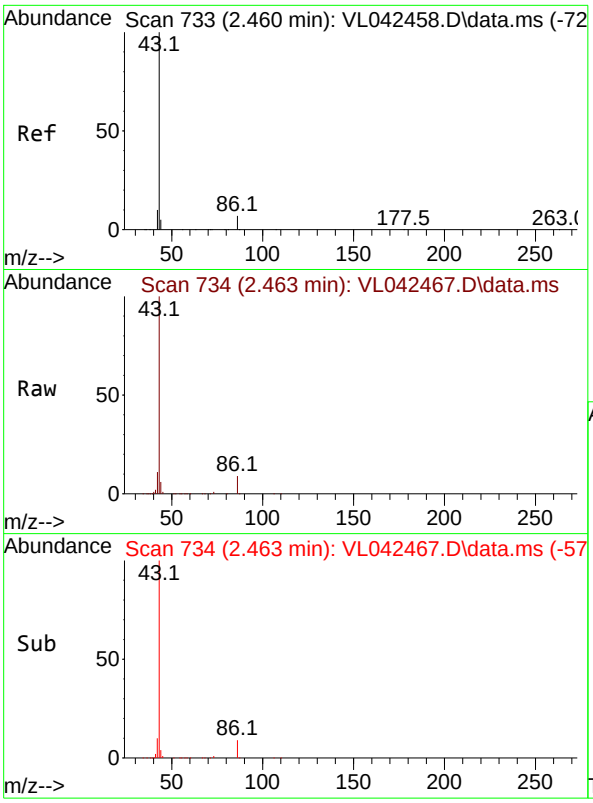


#22
trans-1,2-Dichloroethene
Concen: 10.160 ppbv
RT: 2.340 min Scan# 696
Delta R.T. 0.000 min
Lab File: VL042467.D
Acq: 01 May 2025 15:46

Tgt Ion: 96 Resp: 42922

Ion	Ratio	Lower	Upper
96	100		
61	172.0	141.8	212.6
98	59.7	45.0	67.6

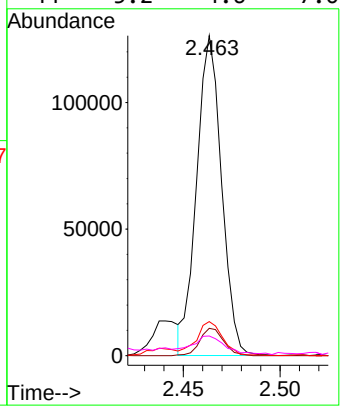




#23
Vinyl Acetate
Concen: 10.220 ppbv
RT: 2.463 min Scan# 7
Delta R.T. 0.003 min
Lab File: VL042467.D
Acq: 01 May 2025 15:46

Tgt Ion: 43 Resp: 11313

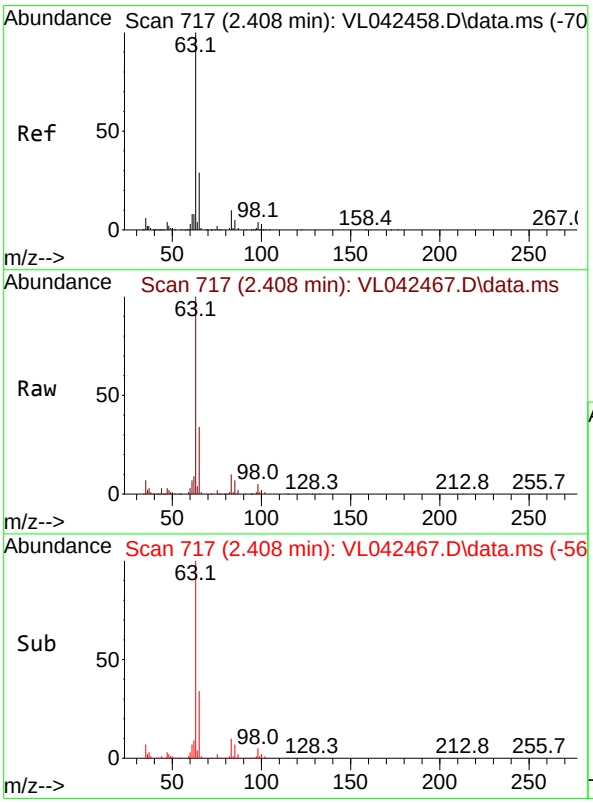
Ion	Ratio	Lower	Upper
43	100		
86	8.6	5.5	8.3#
42	10.5	8.3	12.5
44	5.2	4.6	7.0



Instrument :
MSVOA_L
ClientSampleId :
ICVVL050125

Manual Integrations
APPROVED

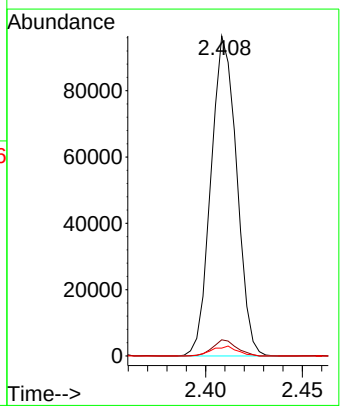
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

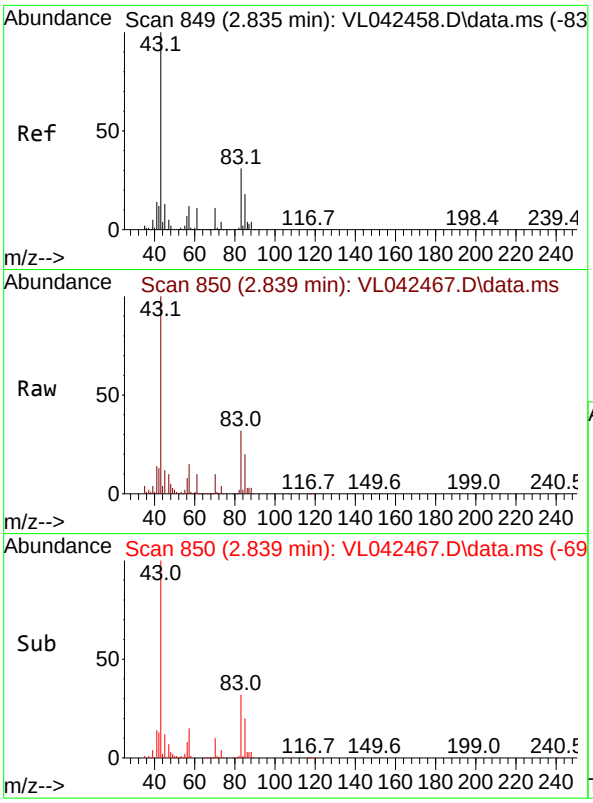


#24
1,1-Dichloroethane
Concen: 10.340 ppbv
RT: 2.408 min Scan# 717
Delta R.T. 0.000 min
Lab File: VL042467.D
Acq: 01 May 2025 15:46

Tgt Ion: 63 Resp: 89117

Ion	Ratio	Lower	Upper
63	100		
98	5.1	1.8	5.5
100	2.5	1.4	4.2

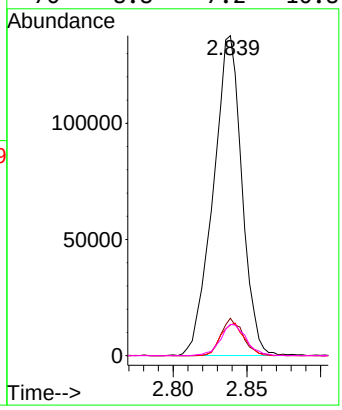




#25
Ethyl Acetate
Concen: 10.025 ppbv
RT: 2.839 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042467.D
Acq: 01 May 2025 15:46

Tgt Ion: 43 Resp: 18618

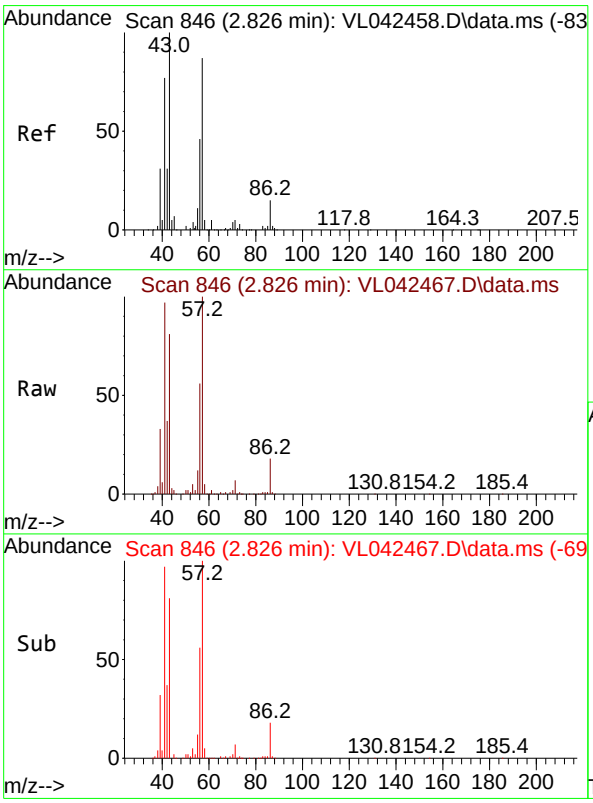
Ion	Ratio	Lower	Upper
43	100		
45	9.1	7.8	11.6
61	8.5	7.2	10.8
70	8.8	7.2	10.8



Instrument :
MSVOA_L
ClientSampleId :
ICVVL050125

Manual Integrations
APPROVED

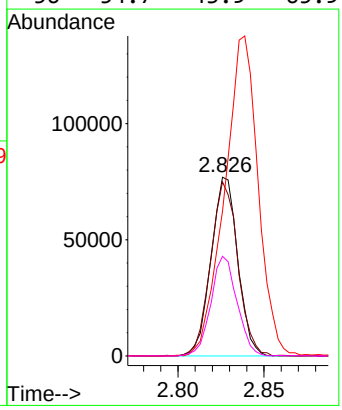
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

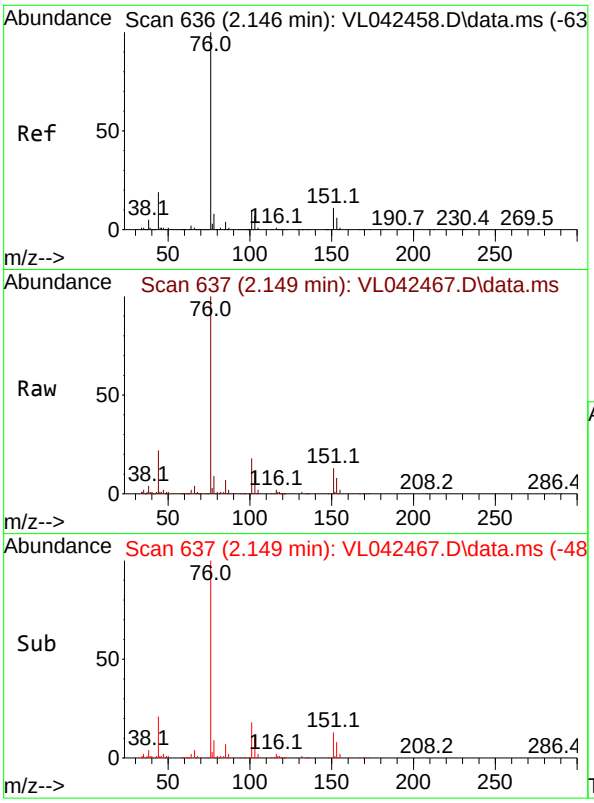


#26
Hexane
Concen: 10.275 ppbv
RT: 2.826 min Scan# 846
Delta R.T. 0.000 min
Lab File: VL042467.D
Acq: 01 May 2025 15:46

Tgt Ion: 57 Resp: 83132

Ion	Ratio	Lower	Upper
57	100		
41	99.4	77.8	116.8
43	225.3	187.0	280.6
56	54.7	43.9	65.9

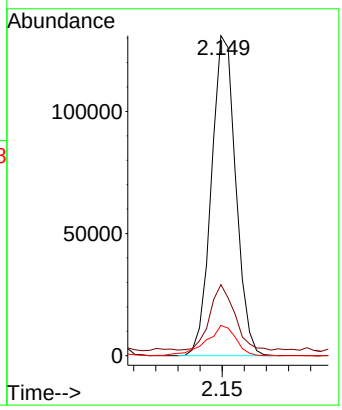




#27
Carbon Disulfide
Concen: 10.612 ppbv
RT: 2.149 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL042467.D
Acq: 01 May 2025 15:46

Tgt Ion: 76 Resp: 10019

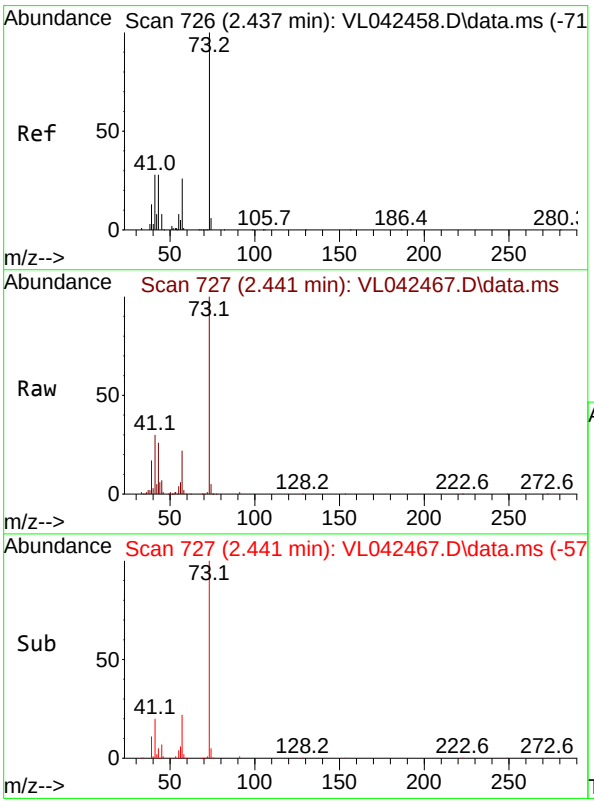
Ion	Ratio	Lower	Upper
76	100		
44	23.7	21.0	31.6
78	11.5	8.6	13.0



Instrument :
MSVOA_L
ClientSampleId :
ICVVL050125

Manual Integrations
APPROVED

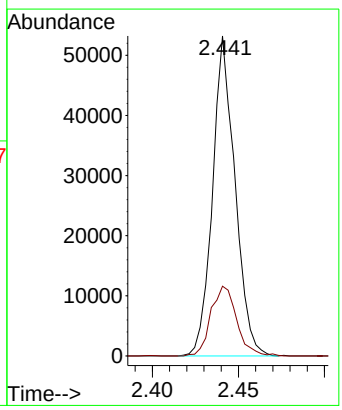
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

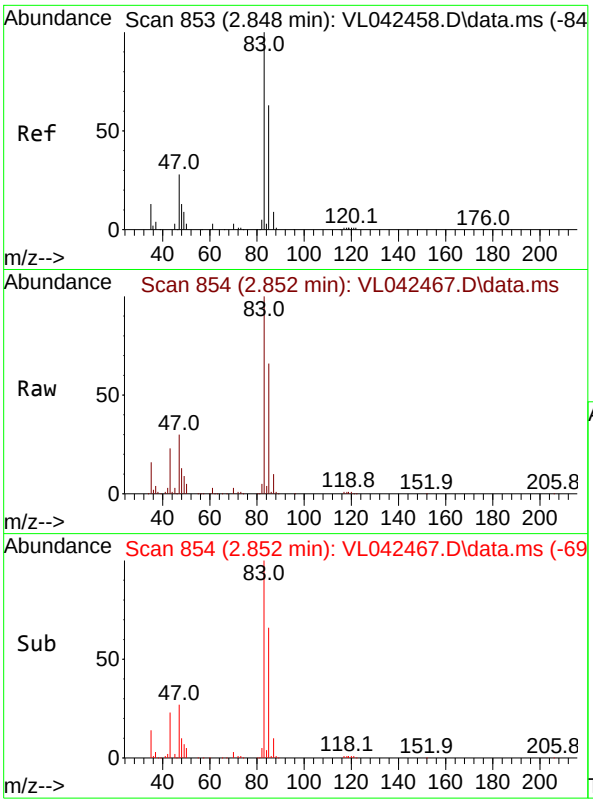


#28
Methyl tert-Butyl Ether
Concen: 9.942 ppbv
RT: 2.441 min Scan# 727
Delta R.T. 0.003 min
Lab File: VL042467.D
Acq: 01 May 2025 15:46

Tgt Ion: 73 Resp: 48326

Ion	Ratio	Lower	Upper
73	100		
57	25.1	19.9	29.9

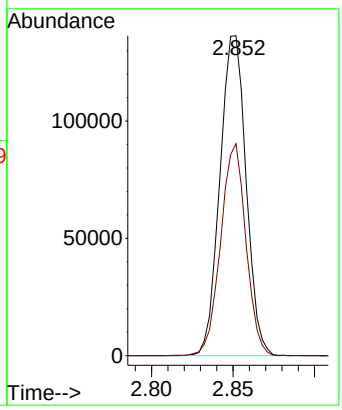




#29
Chloroform
Concen: 10.050 ppbv
RT: 2.852 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042467.D
Acq: 01 May 2025 15:46

Tgt Ion: 83 Resp: 15238

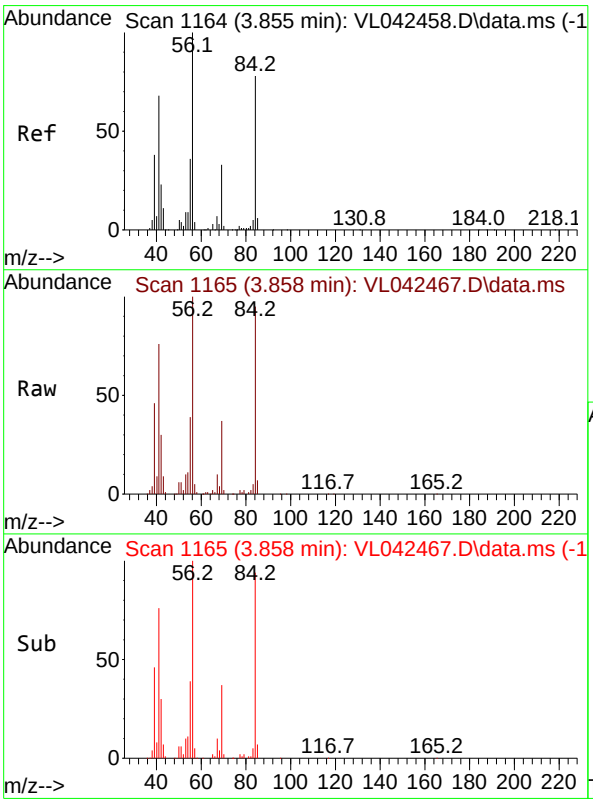
Ion	Ratio	Lower	Upper
83	100		
85	66.2	50.4	75.6



Instrument :
MSVOA_L
ClientSampleId :
ICVVL050125

Manual Integrations
APPROVED

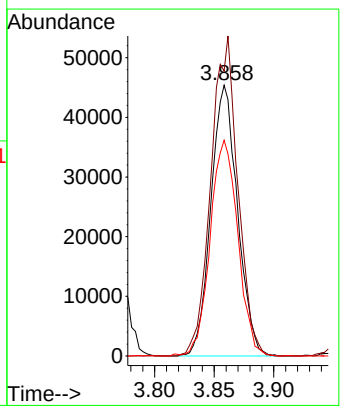
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

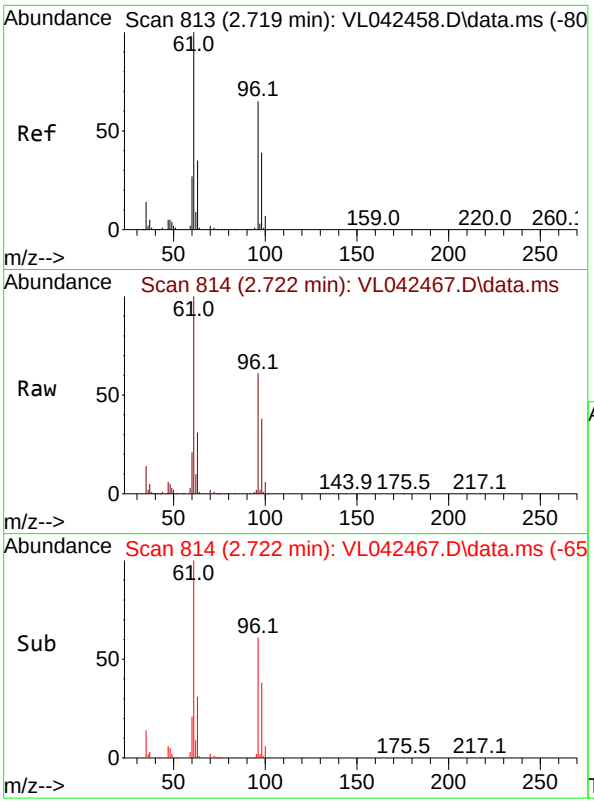


#30
Cyclohexane
Concen: 10.434 ppbv
RT: 3.858 min Scan# 1165
Delta R.T. 0.003 min
Lab File: VL042467.D
Acq: 01 May 2025 15:46

Tgt Ion: 84 Resp: 70581

Ion	Ratio	Lower	Upper
84	100		
56	119.2	98.1	147.1
41	82.7	65.8	98.8

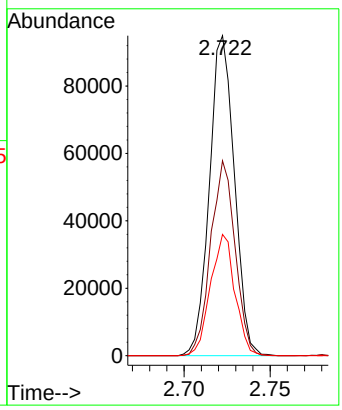




#31
cis-1,2-Dichloroethene
Concen: 10.148 ppbv
RT: 2.722 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042467.D
Acq: 01 May 2025 15:46

Tgt Ion: 61 Resp: 9579

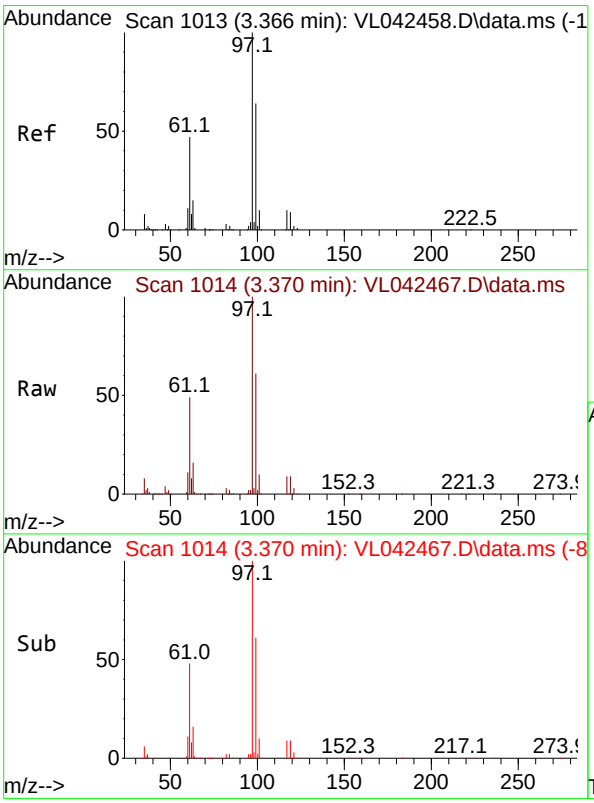
Ion	Ratio	Lower	Upper
61	100		
96	60.9	52.0	78.0
98	37.9	31.0	46.6



Instrument :
MSVOA_L
ClientSampleId :
ICVVL050125

Manual Integrations
APPROVED

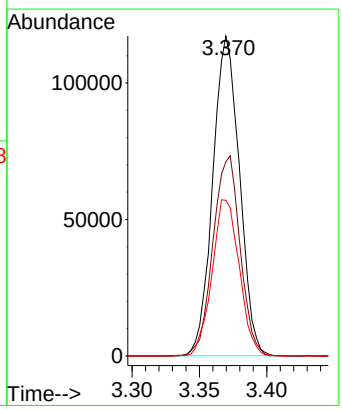
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

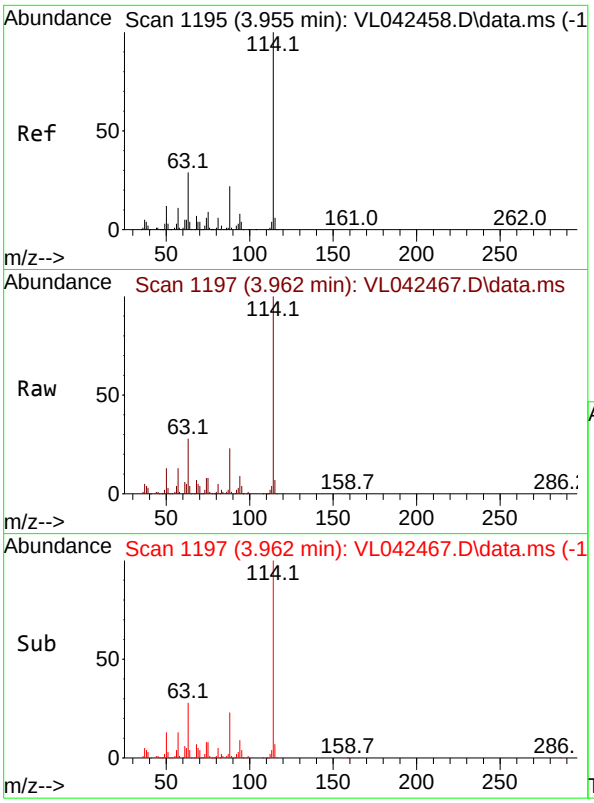


#32
1,1,1-Trichloroethane
Concen: 9.816 ppbv
RT: 3.370 min Scan# 1014
Delta R.T. 0.003 min
Lab File: VL042467.D
Acq: 01 May 2025 15:46

Tgt Ion: 97 Resp: 161465

Ion	Ratio	Lower	Upper
97	100		
99	63.6	50.7	76.1
61	50.0	40.9	61.3

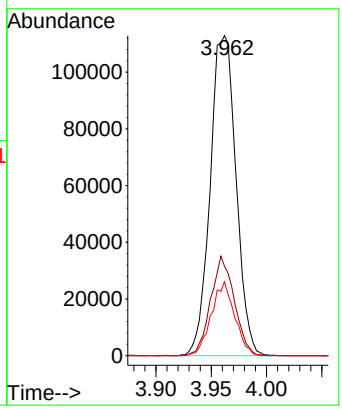




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.962 min Scan# 1
Delta R.T. 0.007 min
Lab File: VL042467.D
Acq: 01 May 2025 15:46

Tgt Ion:114 Resp: 18367

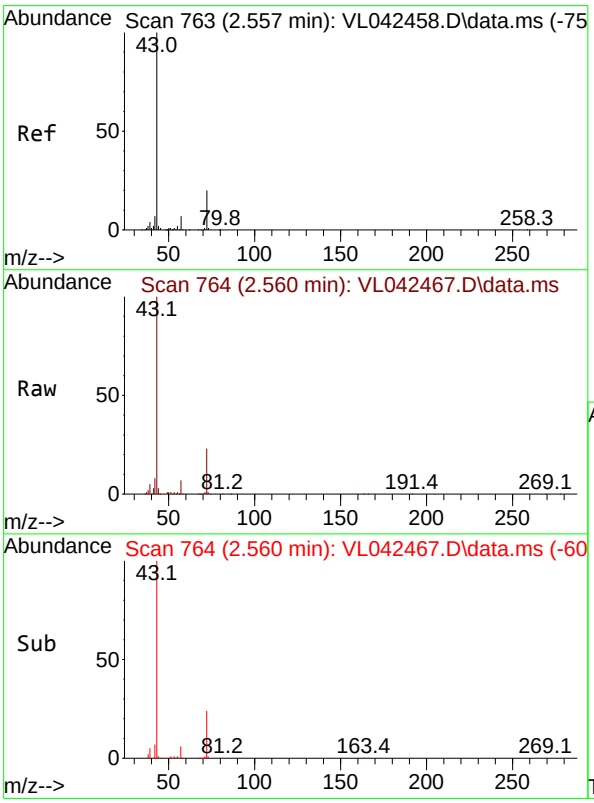
Ion	Ratio	Lower	Upper
114	100		
63	28.4	23.1	34.7
88	20.9	16.1	24.1



Instrument :
MSVOA_L
ClientSampleId :
ICVVL050125

Manual Integrations
APPROVED

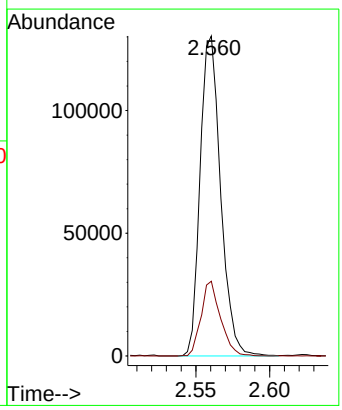
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

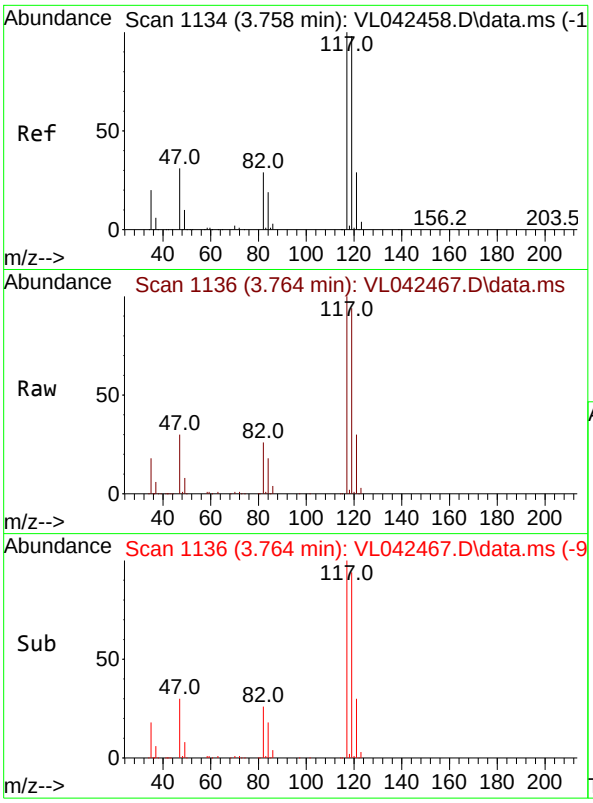


#34
2-Butanone
Concen: 9.475 ppbv
RT: 2.560 min Scan# 764
Delta R.T. 0.003 min
Lab File: VL042467.D
Acq: 01 May 2025 15:46

Tgt Ion: 43 Resp: 125883

Ion	Ratio	Lower	Upper
43	100		
72	22.2	16.7	25.1

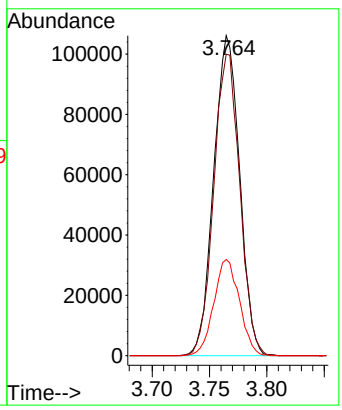




#35
Carbon Tetrachloride
Concen: 9.998 ppbv
RT: 3.764 min Scan# 1
Delta R.T. 0.007 min
Lab File: VL042467.D
Acq: 01 May 2025 15:46

Tgt Ion:117 Resp: 16681

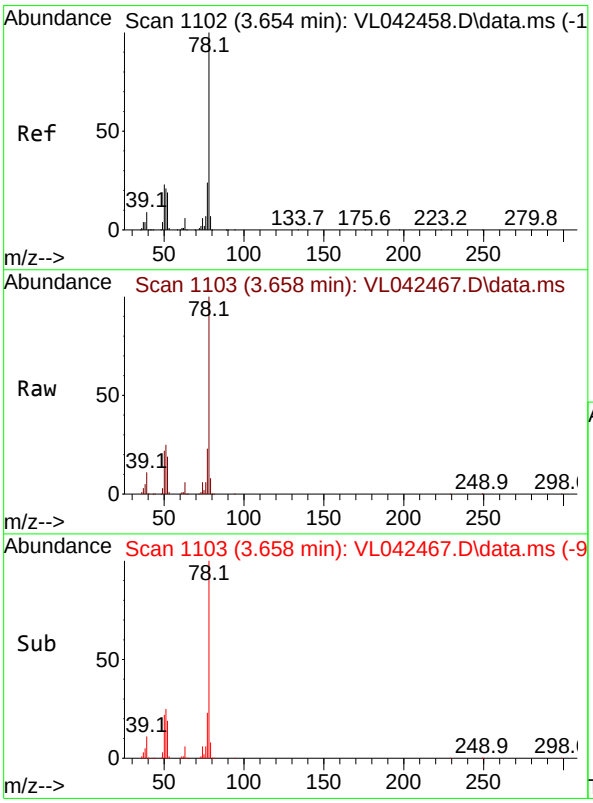
Ion	Ratio	Lower	Upper
117	100		
119	94.2	78.1	117.1
121	30.1	23.0	34.6



Instrument :
MSVOA_L
ClientSampleId :
ICVVL050125

Manual Integrations
APPROVED

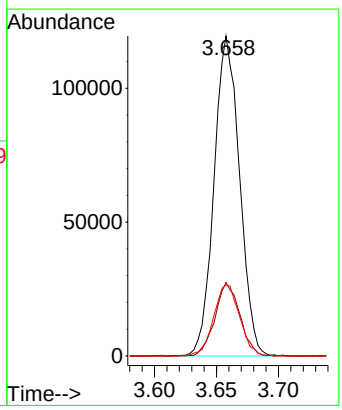
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

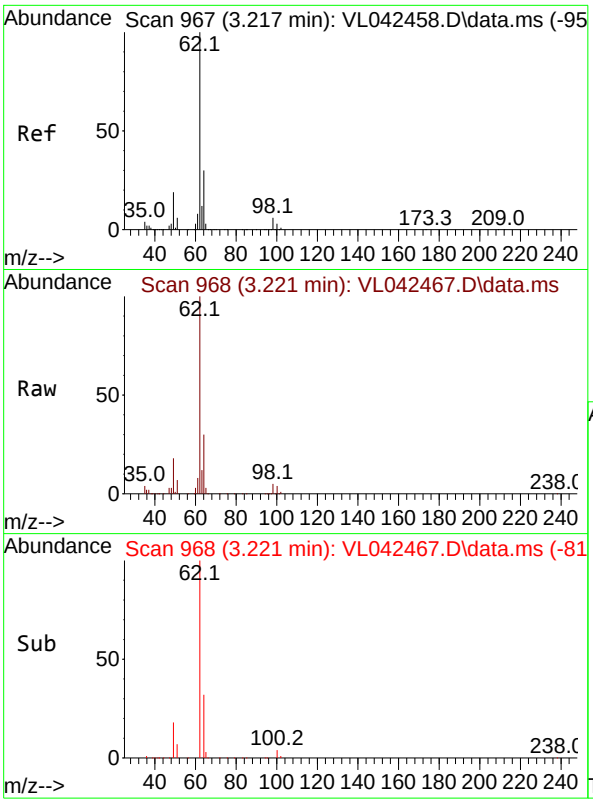


#36
Benzene
Concen: 9.888 ppbv
RT: 3.658 min Scan# 1103
Delta R.T. 0.003 min
Lab File: VL042467.D
Acq: 01 May 2025 15:46

Tgt Ion: 78 Resp: 171384

Ion	Ratio	Lower	Upper
78	100		
77	22.9	18.9	28.3
50	22.2	18.4	27.6





#37
1,2-Dichloroethane
Concen: 9.736 ppbv
RT: 3.221 min Scan# 9(
Delta R.T. 0.003 min
Lab File: VL042467.D
Acq: 01 May 2025 15:46

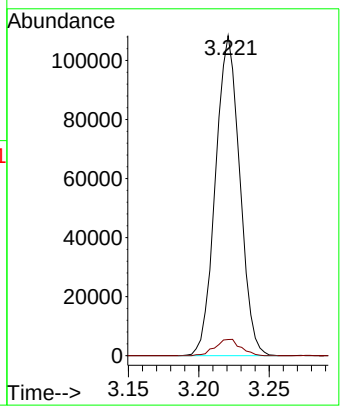
Tgt Ion: 62 Resp: 13006

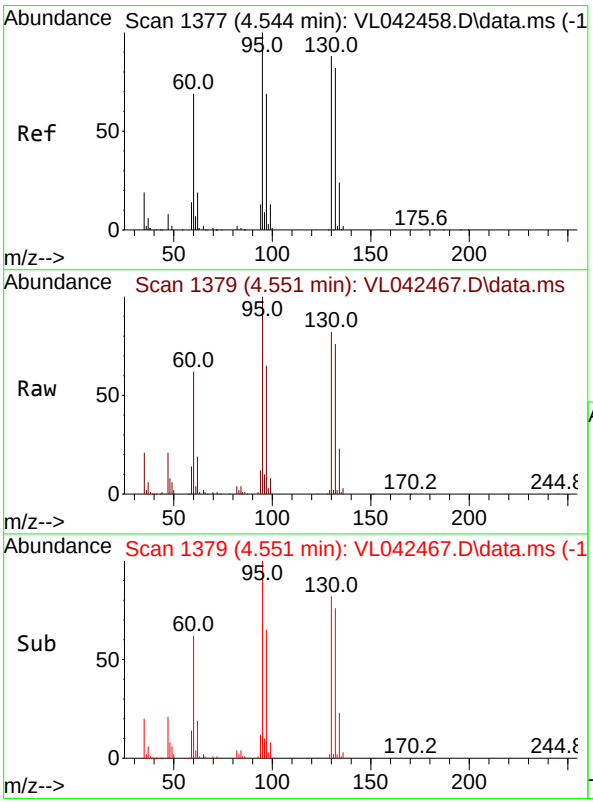
Ion	Ratio	Lower	Upper
62	100		
98	5.3	4.3	6.5

Instrument :
MSVOA_L
ClientSampleId :
ICVVL050125

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

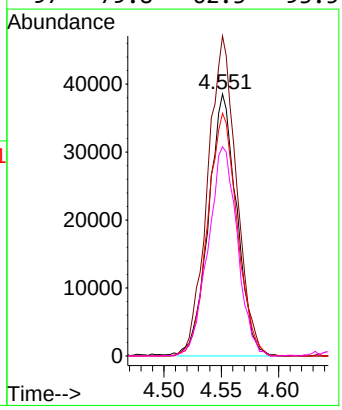


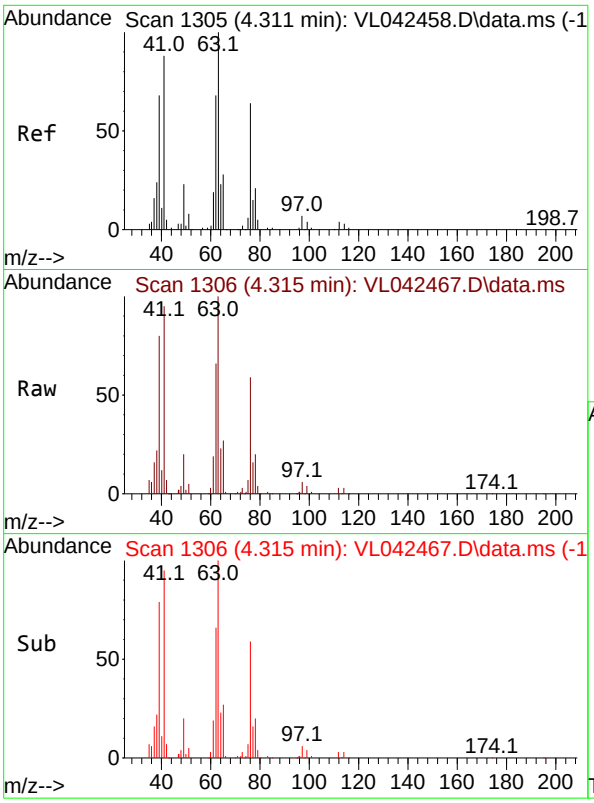


#38
Trichloroethene
Concen: 9.976 ppbv
RT: 4.551 min Scan# 1379
Delta R.T. 0.007 min
Lab File: VL042467.D
Acq: 01 May 2025 15:46

Tgt Ion:130 Resp: 65940

Ion	Ratio	Lower	Upper
130	100		
95	122.0	91.0	136.4
132	92.7	74.2	111.4
97	79.8	62.3	93.5

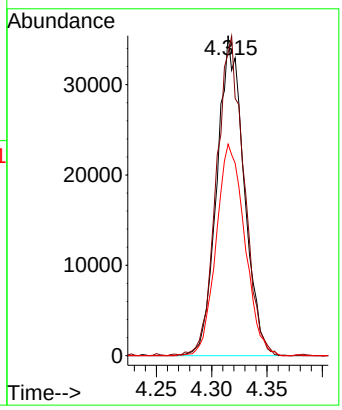




#39
1,2-Dichloropropane
Concen: 9.248 ppbv
RT: 4.315 min Scan# 1
Delta R.T. 0.003 min
Lab File: VL042467.D
Acq: 01 May 2025 15:46

Tgt Ion: 63 Resp: 6001

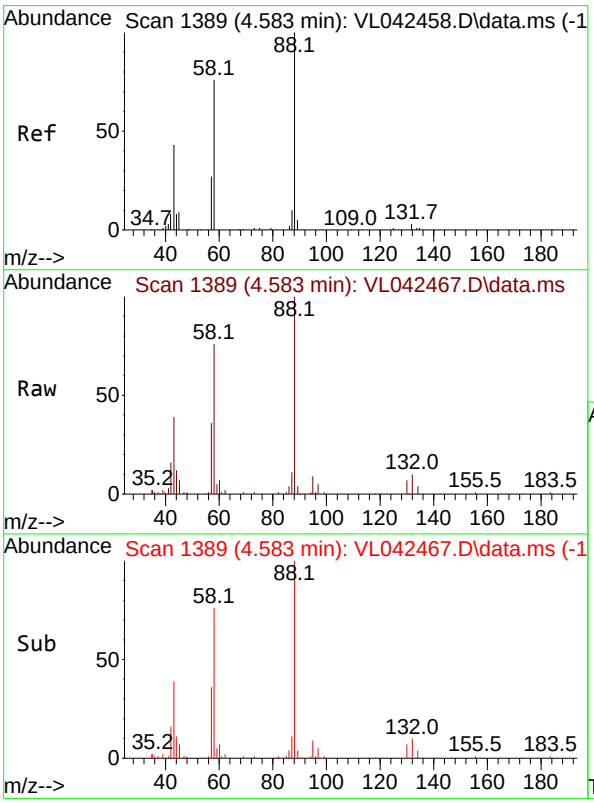
Ion	Ratio	Lower	Upper
63	100		
41	94.2	69.8	104.6
62	65.9	54.3	81.5



Instrument :
MSVOA_L
ClientSampleId :
ICVVL050125

Manual Integrations
APPROVED

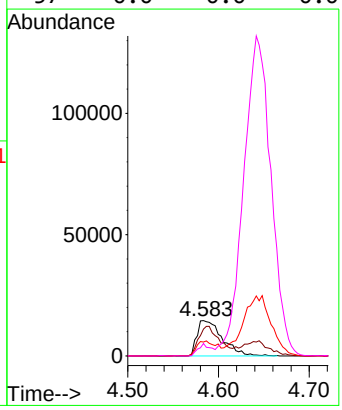
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

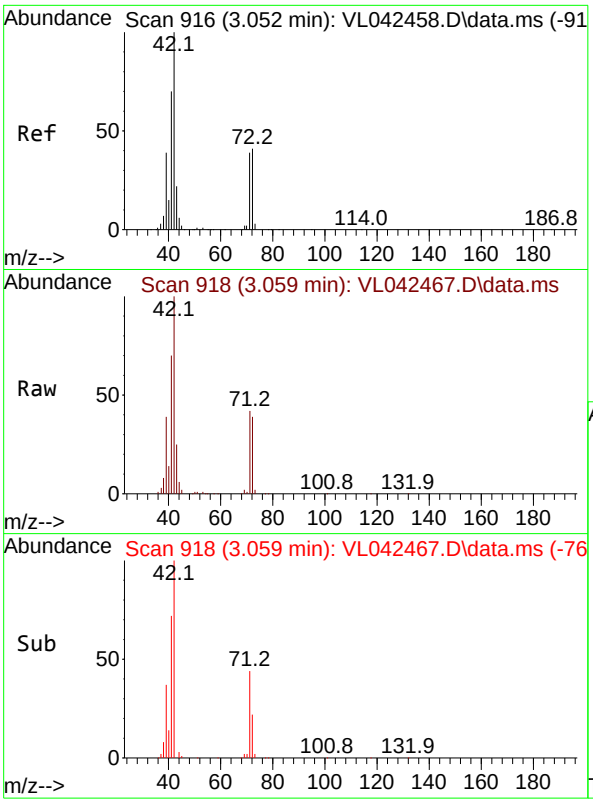


#40
1,4-Dioxane
Concen: 9.316 ppbv m
RT: 4.583 min Scan# 1389
Delta R.T. 0.000 min
Lab File: VL042467.D
Acq: 01 May 2025 15:46

Tgt Ion: 88 Resp: 28306

Ion	Ratio	Lower	Upper
88	100		
58	69.6	0.0	0.0#
43	35.6	0.0	0.0#
57	0.0	0.0	0.0

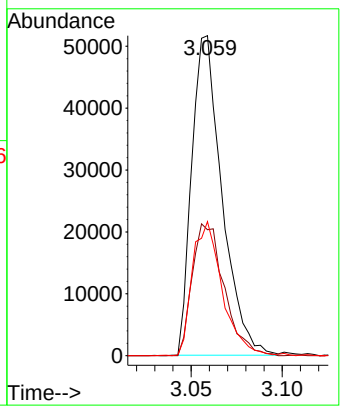




#41
Tetrahydrofuran
Concen: 9.440 ppbv
RT: 3.059 min Scan# 9
Delta R.T. 0.007 min
Lab File: VL042467.D
Acq: 01 May 2025 15:46

Tgt Ion: 42 Resp: 5960

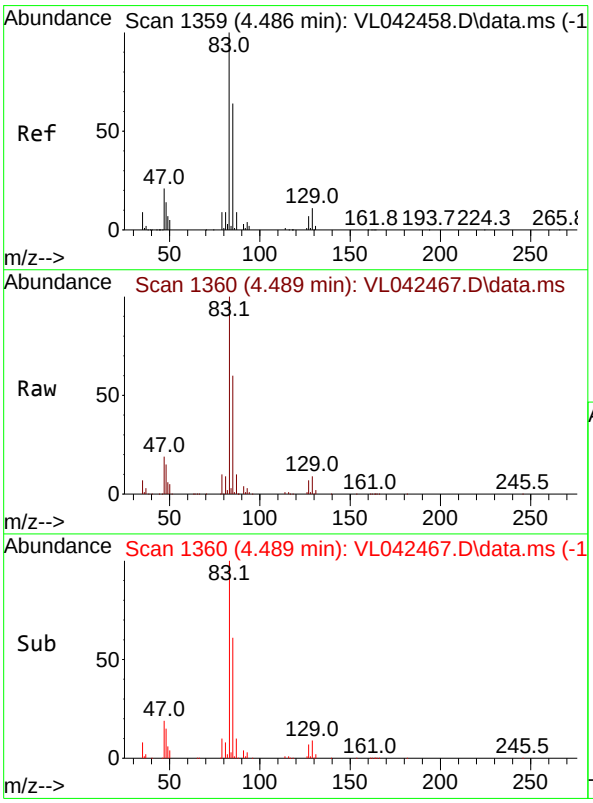
Ion	Ratio	Lower	Upper
42	100		
72	43.7	33.5	50.3
71	41.7	32.6	49.0



Instrument :
MSVOA_L
ClientSampleId :
ICVVL050125

Manual Integrations
APPROVED

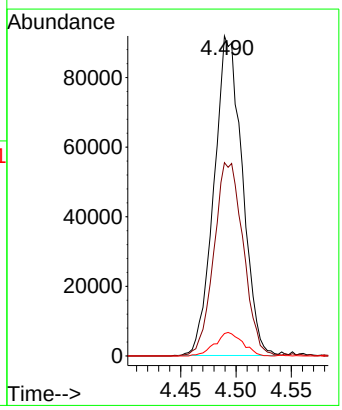
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

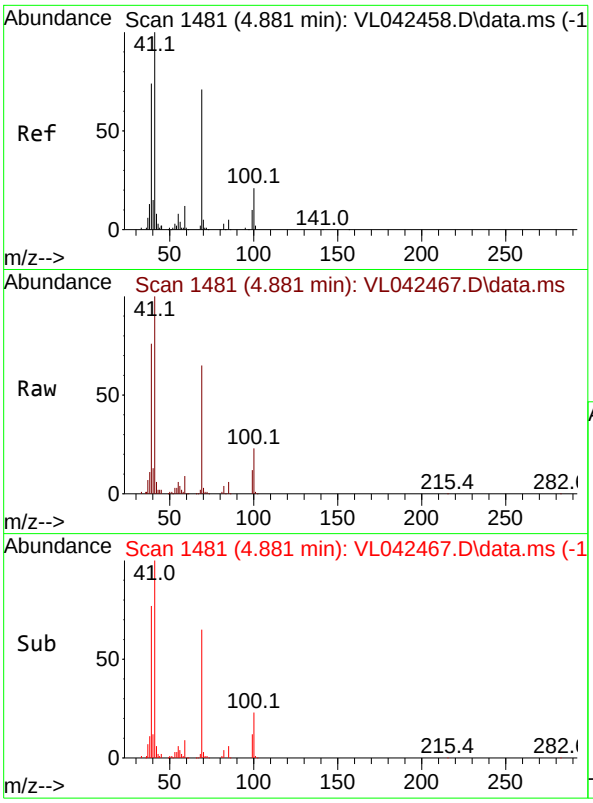


#42
Bromodichloromethane
Concen: 9.999 ppbv
RT: 4.489 min Scan# 1360
Delta R.T. 0.003 min
Lab File: VL042467.D
Acq: 01 May 2025 15:46

Tgt Ion: 83 Resp: 163210

Ion	Ratio	Lower	Upper
83	100		
85	60.5	51.5	77.3
127	7.0	5.4	8.2

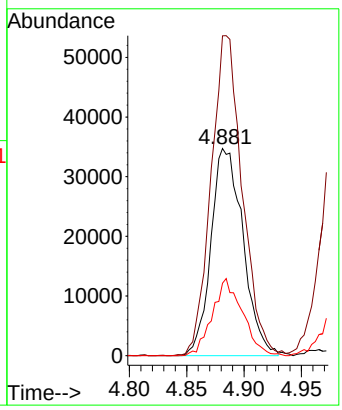




#43
Methyl Methacrylate
Concen: 10.438 ppbv
RT: 4.881 min Scan# 14
Delta R.T. 0.000 min
Lab File: VL042467.D
Acq: 01 May 2025 15:46

Tgt Ion: 69 Resp: 6751(

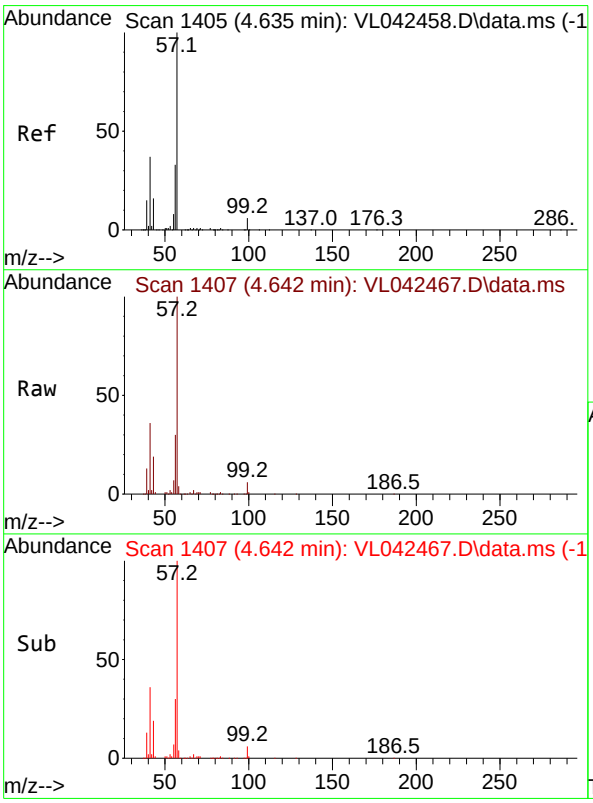
Ion	Ratio	Lower	Upper
69	100		
41	151.2	120.8	181.2
100	35.0	26.7	40.1



Instrument :
MSVOA_L
ClientSampleId :
ICVVL050125

Manual Integrations
APPROVED

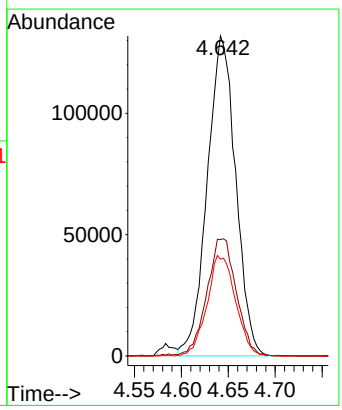
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

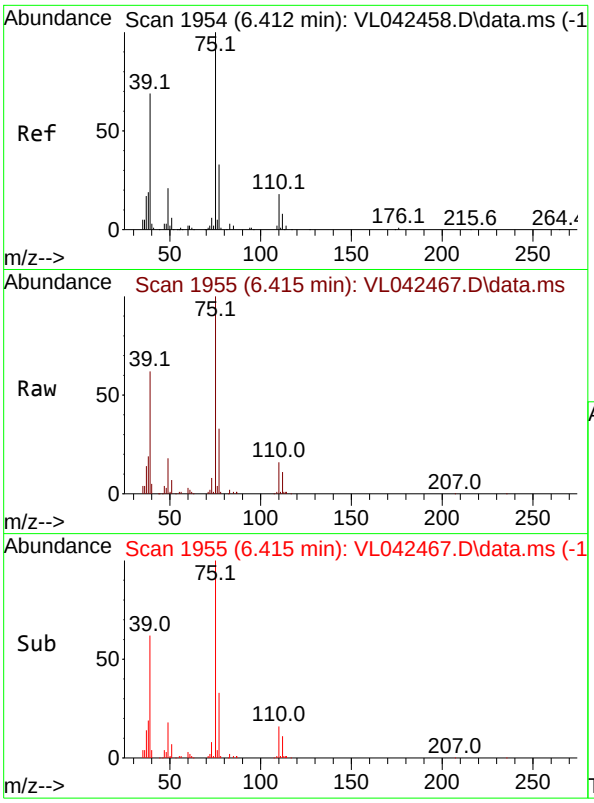


#44
2,2,4-Trimethylpentane
Concen: 9.867 ppbv
RT: 4.642 min Scan# 1407
Delta R.T. 0.007 min
Lab File: VL042467.D
Acq: 01 May 2025 15:46

Tgt Ion: 57 Resp: 277217

Ion	Ratio	Lower	Upper
57	100		
41	38.4	30.6	45.8
56	31.5	25.0	37.6

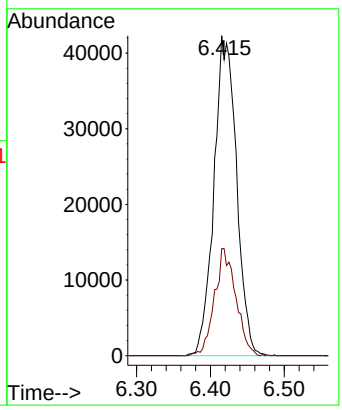




#45
t-1,3-Dichloropropene
Concen: 10.563 ppbv m
RT: 6.415 min Scan# 1
Delta R.T. 0.003 min
Lab File: VL042467.D
Acq: 01 May 2025 15:46

Tgt Ion: 75 Resp: 8963

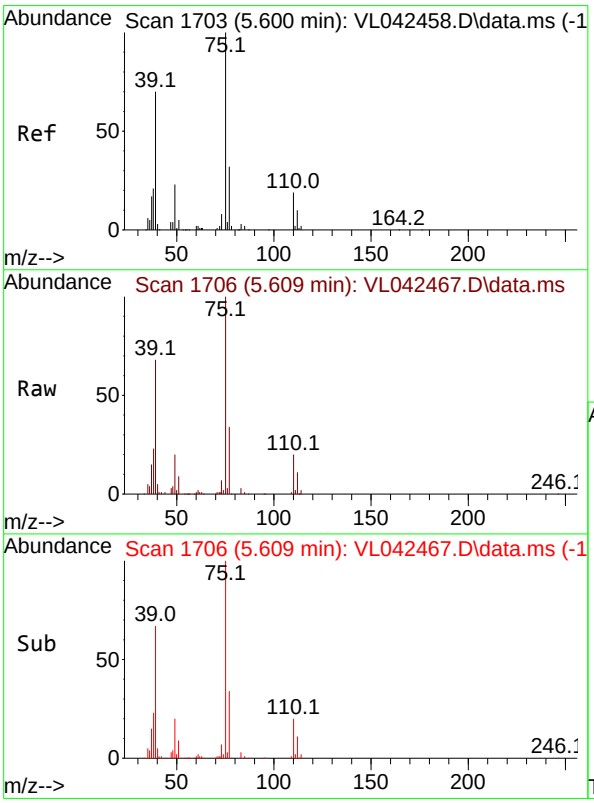
Ion	Ratio	Lower	Upper
75	100		
77	33.4	26.3	39.5



Instrument :
MSVOA_L
ClientSampleId :
ICVVL050125

Manual Integrations
APPROVED

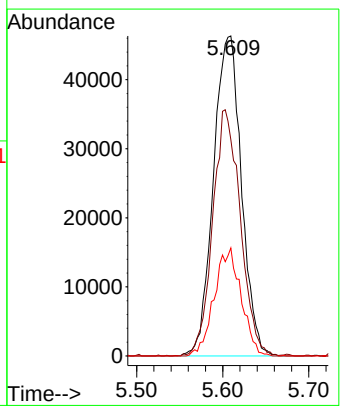
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

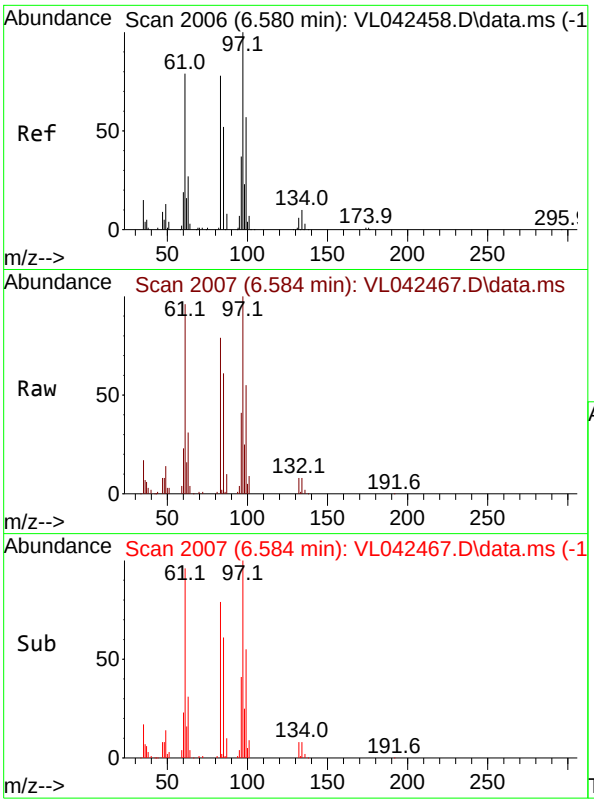


#46
cis-1,3-Dichloropropene
Concen: 10.378 ppbv
RT: 5.609 min Scan# 1706
Delta R.T. 0.010 min
Lab File: VL042467.D
Acq: 01 May 2025 15:46

Tgt Ion: 75 Resp: 104665

Ion	Ratio	Lower	Upper
75	100		
39	67.5	55.7	83.5
77	33.8	25.8	38.8

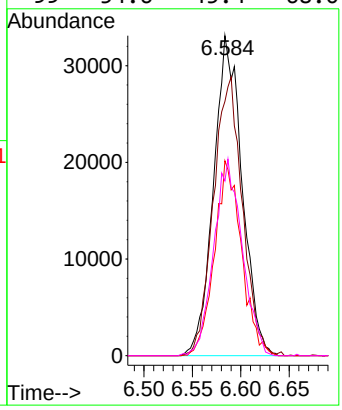




#47
1,1,2-Trichloroethane
Concen: 9.530 ppbv
RT: 6.584 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042467.D
Acq: 01 May 2025 15:46

Tgt Ion: 97 Resp: 6782

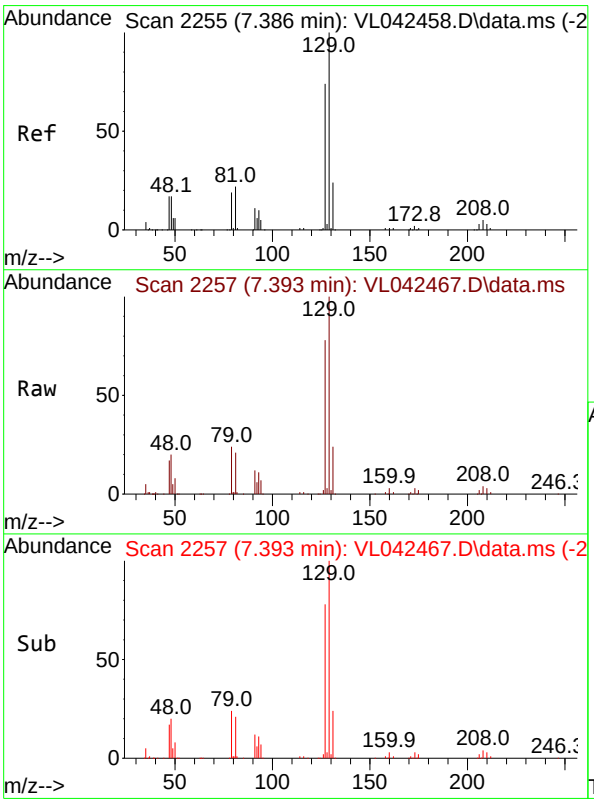
Ion	Ratio	Lower	Upper
97	100		
83	79.5	62.2	93.2
85	60.9	41.5	62.3
99	54.6	45.4	68.0



Instrument :
MSVOA_L
ClientSampleId :
ICVVL050125

Manual Integrations
APPROVED

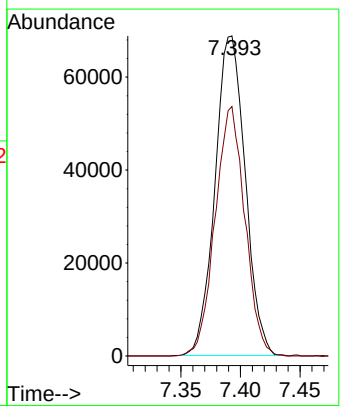
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

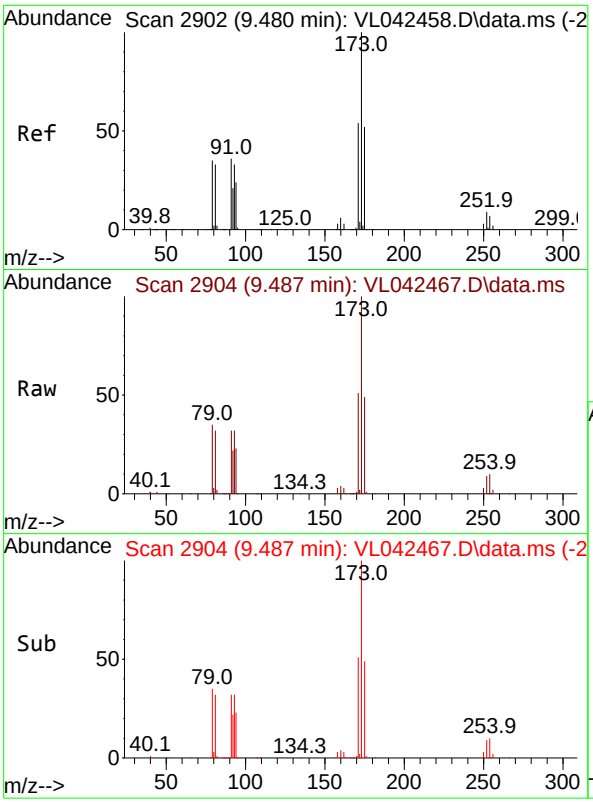


#48
Dibromochloromethane
Concen: 10.103 ppbv
RT: 7.393 min Scan# 2257
Delta R.T. 0.007 min
Lab File: VL042467.D
Acq: 01 May 2025 15:46

Tgt Ion:129 Resp: 121381

Ion	Ratio	Lower	Upper
129	100		
127	76.8	39.5	118.5

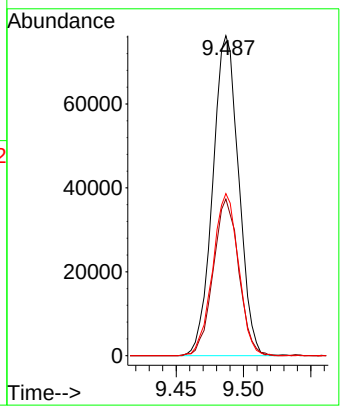




#49
Bromoform
Concen: 10.138 ppbv
RT: 9.487 min Scan# 2
Delta R.T. 0.007 min
Lab File: VL042467.D
Acq: 01 May 2025 15:46

Tgt Ion:173 Resp: 10215

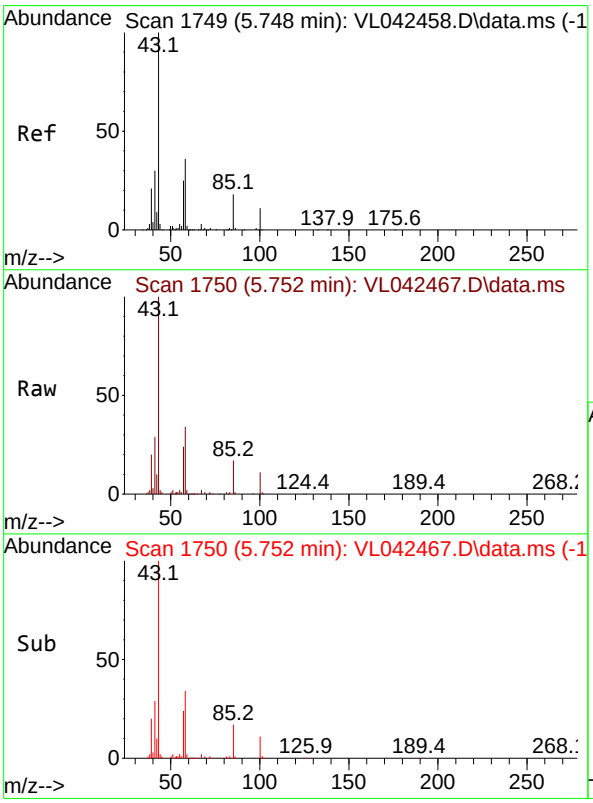
Ion	Ratio	Lower	Upper
173	100		
175	48.2	38.9	58.3
171	50.6	40.6	60.8



Instrument :
MSVOA_L
ClientSampleId :
ICVVL050125

Manual Integrations
APPROVED

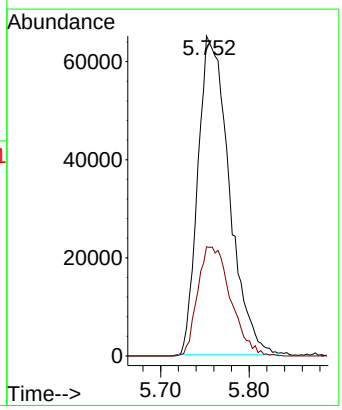
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

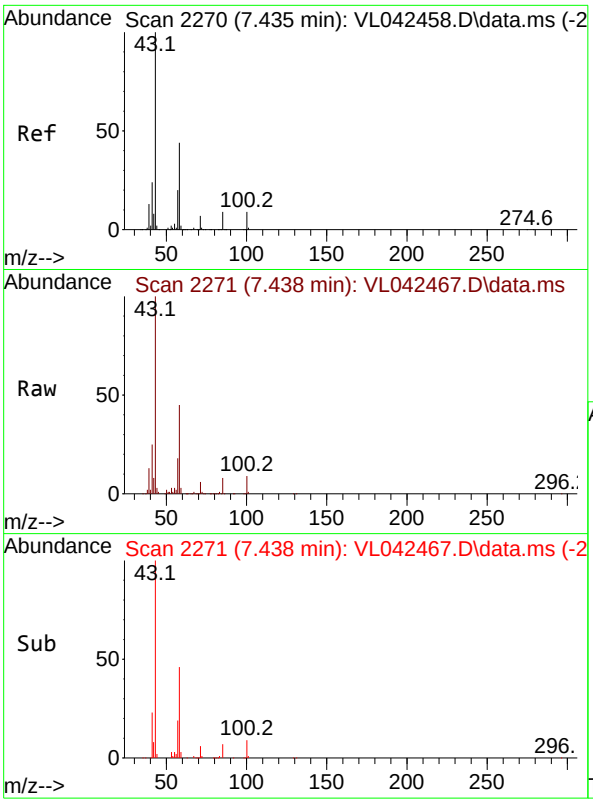


#50
4-Methyl-2-Pentanone
Concen: 9.478 ppbv
RT: 5.752 min Scan# 1750
Delta R.T. 0.003 min
Lab File: VL042467.D
Acq: 01 May 2025 15:46

Tgt Ion: 43 Resp: 159280

Ion	Ratio	Lower	Upper
43	100		
58	36.2	29.5	44.3

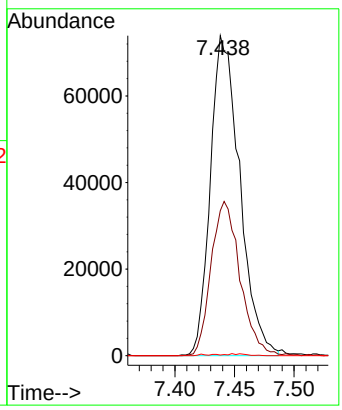




#51
2-Hexanone
Concen: 9.407 ppbv
RT: 7.438 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042467.D
Acq: 01 May 2025 15:46

Tgt Ion: 43 Resp: 12639

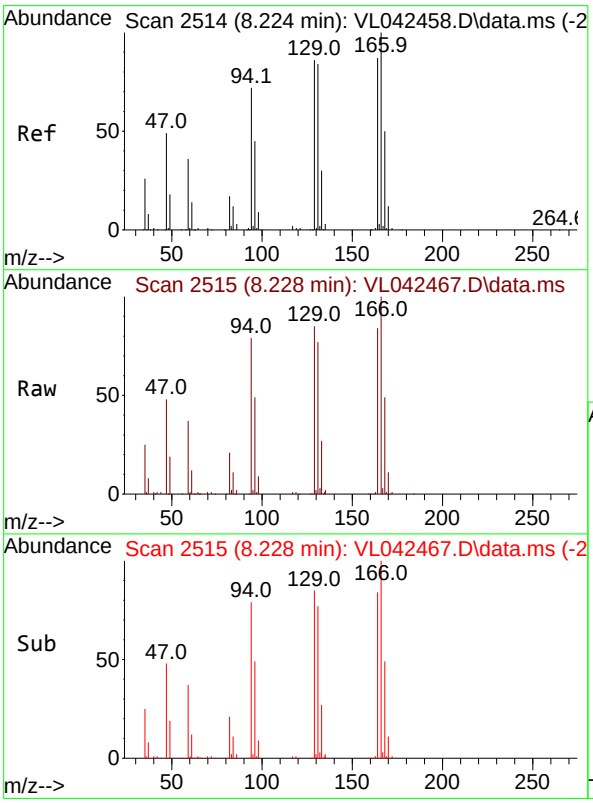
Ion	Ratio	Lower	Upper
43	100		
58	47.8	37.2	55.8
98	0.6	0.4	0.6



Instrument :
MSVOA_L
ClientSampleId :
ICVVL050125

Manual Integrations
APPROVED

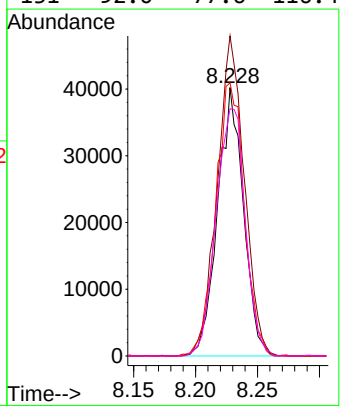
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

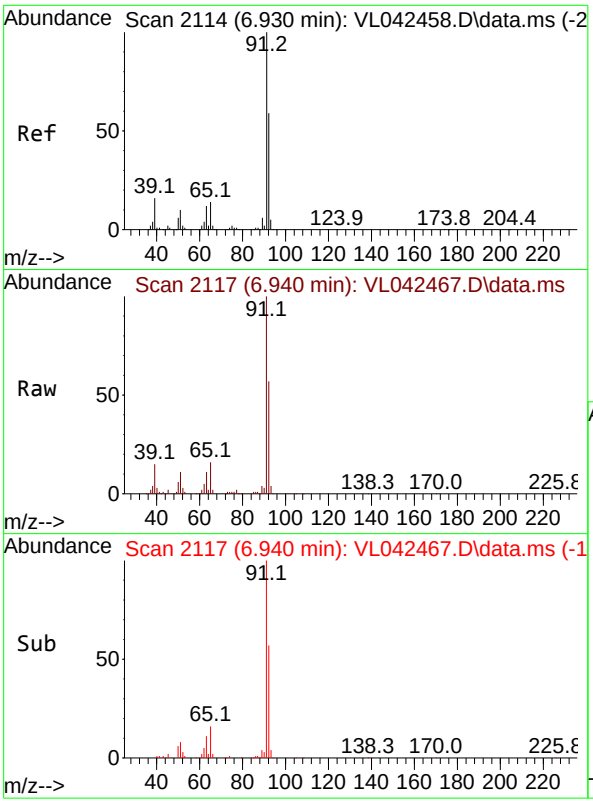


#52
Tetrachloroethene
Concen: 8.832 ppbv
RT: 8.228 min Scan# 2515
Delta R.T. 0.003 min
Lab File: VL042467.D
Acq: 01 May 2025 15:46

Tgt Ion:164 Resp: 58272

Ion	Ratio	Lower	Upper
164	100		
166	119.2	91.6	137.4
129	101.8	79.0	118.4
131	92.0	77.6	116.4

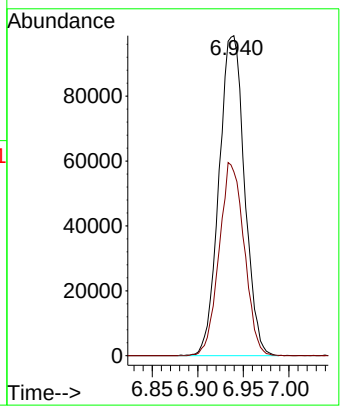




#53
Toluene
Concen: 10.461 ppbv
RT: 6.940 min Scan# 21
Delta R.T. 0.010 min
Lab File: VL042467.D
Acq: 01 May 2025 15:46

Tgt Ion: 91 Resp: 19192

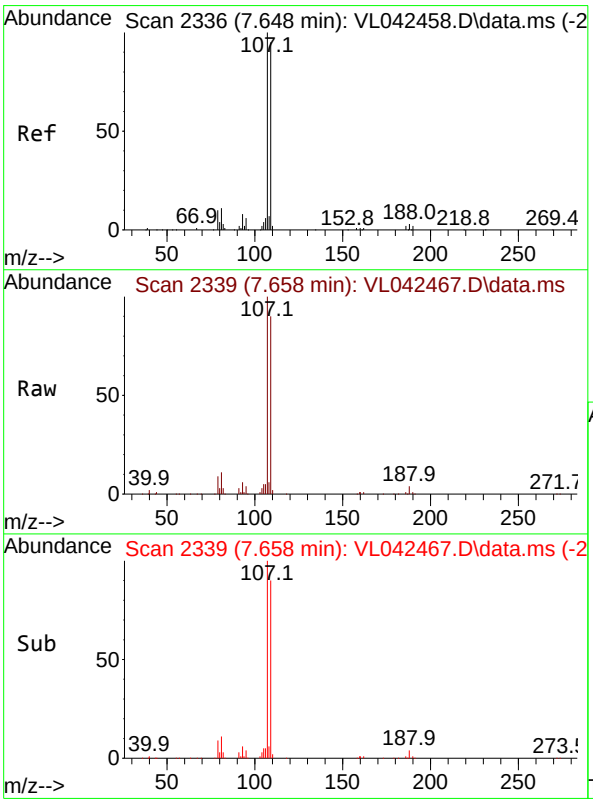
Ion	Ratio	Lower	Upper
91	100		
92	59.2	47.9	71.9



Instrument :
MSVOA_L
ClientSampleId :
ICVVL050125

Manual Integrations
APPROVED

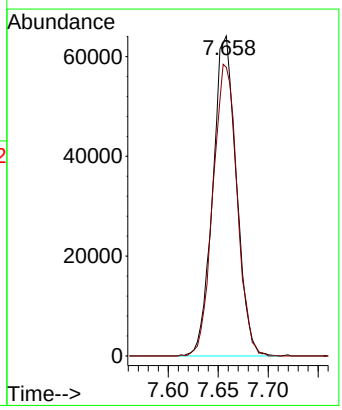
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

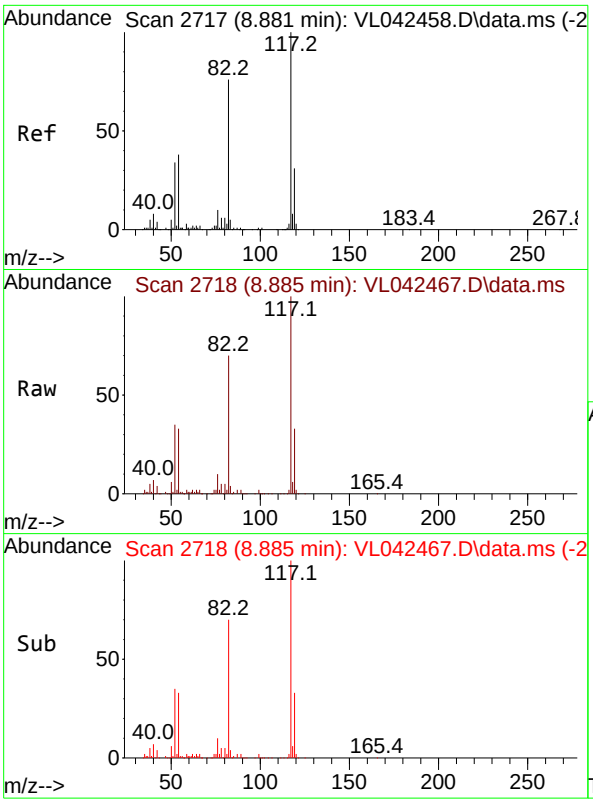


#54
1,2-Dibromoethane
Concen: 9.664 ppbv
RT: 7.658 min Scan# 2339
Delta R.T. 0.010 min
Lab File: VL042467.D
Acq: 01 May 2025 15:46

Tgt Ion:107 Resp: 105149

Ion	Ratio	Lower	Upper
107	100		
109	90.2	76.0	114.0

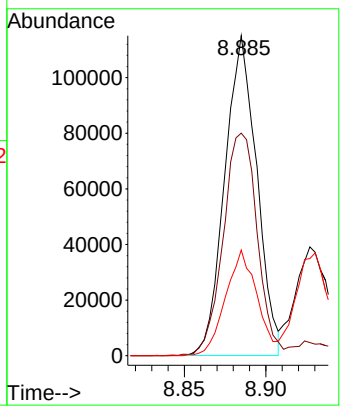




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.885 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042467.D
Acq: 01 May 2025 15:46

Tgt Ion:117 Resp: 15698

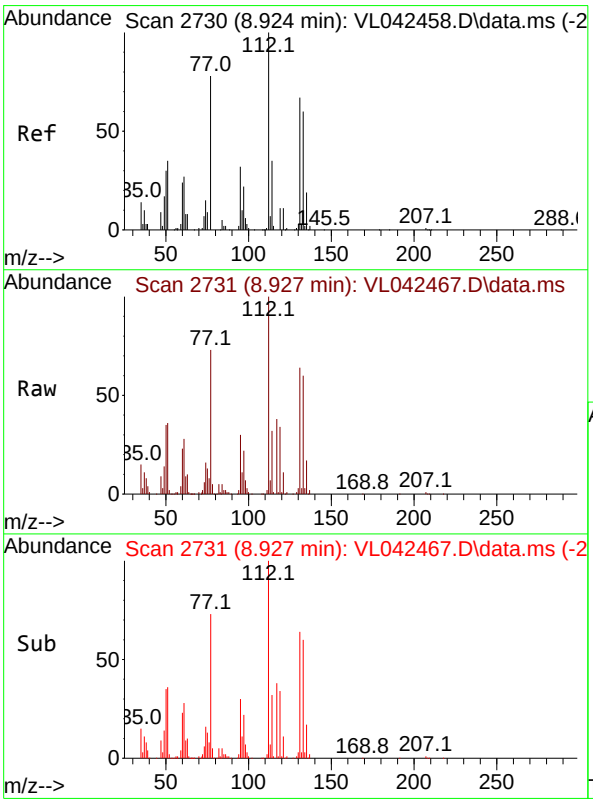
Ion	Ratio	Lower	Upper
117	100		
82	75.3	63.5	95.3
119	33.8	25.8	38.8



Instrument :
MSVOA_L
ClientSampleId :
ICVVL050125

Manual Integrations
APPROVED

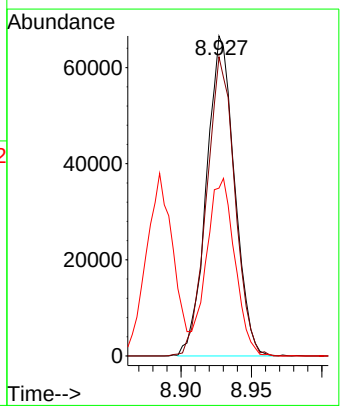
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

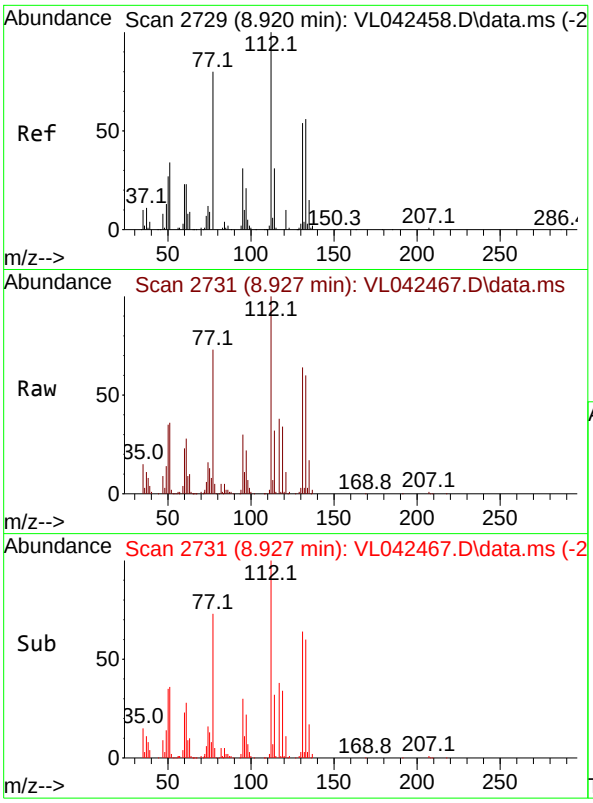


#56
1,1,1,2-Tetrachloroethane
Concen: 9.959 ppbv
RT: 8.927 min Scan# 2731
Delta R.T. 0.003 min
Lab File: VL042467.D
Acq: 01 May 2025 15:46

Tgt Ion:131 Resp: 92337

Ion	Ratio	Lower	Upper
131	100		
133	93.8	76.0	114.0
119	53.8	46.1	69.1





#57
Chlorobenzene
Concen: 9.431 ppbv
RT: 8.927 min Scan# 2
Delta R.T. 0.007 min
Lab File: VL042467.D
Acq: 01 May 2025 15:46

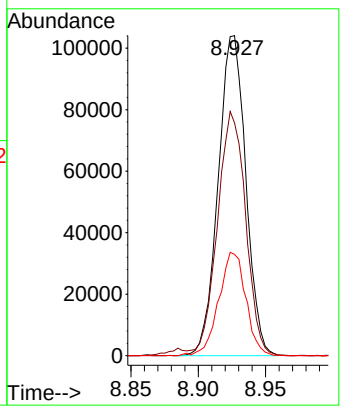
Tgt Ion:112 Resp: 14875

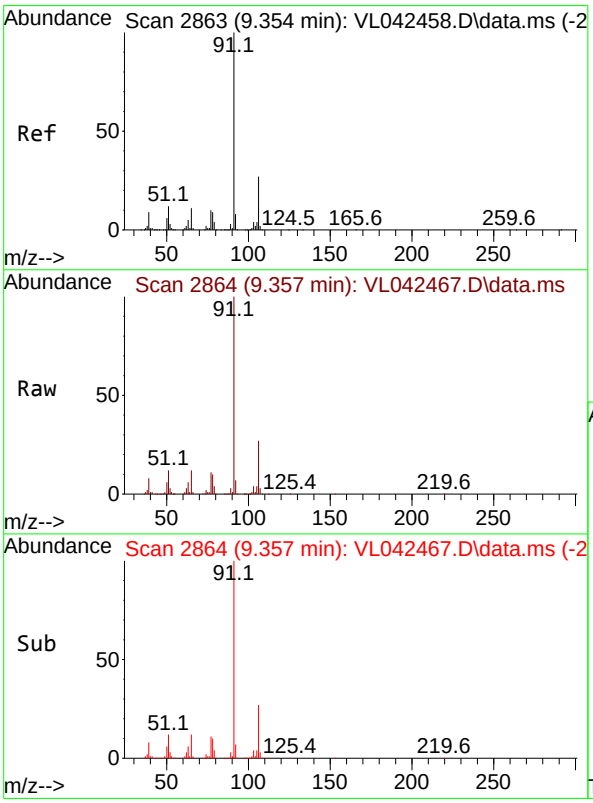
Ion	Ratio	Lower	Upper
112	100		
77	72.5	65.0	97.4
114	31.7	27.5	33.7

Instrument :
MSVOA_L
ClientSampleId :
ICVVL050125

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

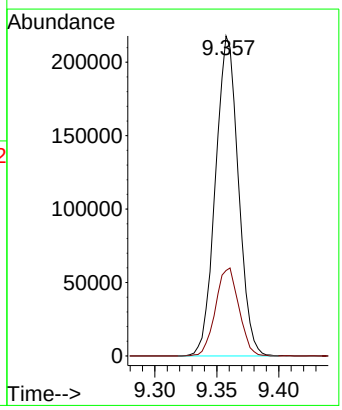


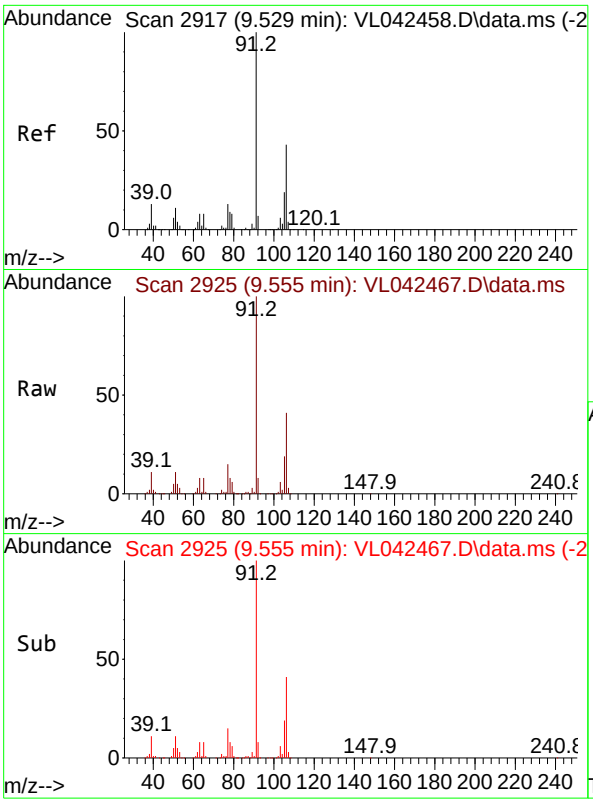


#58
Ethyl Benzene
Concen: 10.698 ppbv
RT: 9.357 min Scan# 2864
Delta R.T. 0.003 min
Lab File: VL042467.D
Acq: 01 May 2025 15:46

Tgt Ion: 91 Resp: 280660

Ion	Ratio	Lower	Upper
91	100		
106	26.7	21.9	32.9

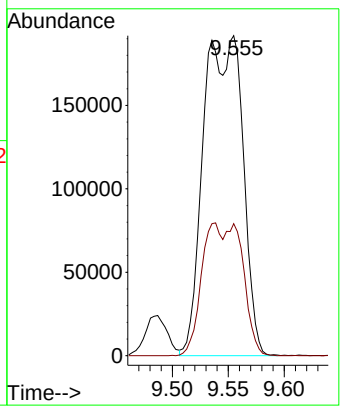




#59
m/p-Xylene
Concen: 21.324 ppbv m
RT: 9.555 min Scan# 2
Delta R.T. 0.026 min
Lab File: VL042467.D
Acq: 01 May 2025 15:46

Tgt Ion: 91 Resp: 46898

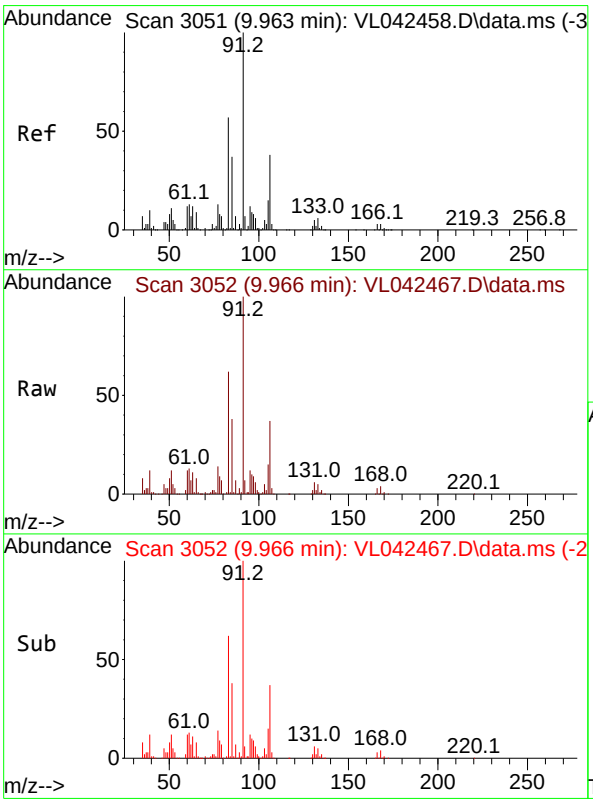
Ion	Ratio	Lower	Upper
91	100		
106	42.4	34.2	51.2



Instrument :
MSVOA_L
ClientSampleId :
ICVVL050125

Manual Integrations
APPROVED

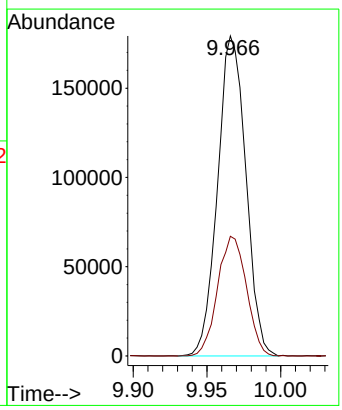
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

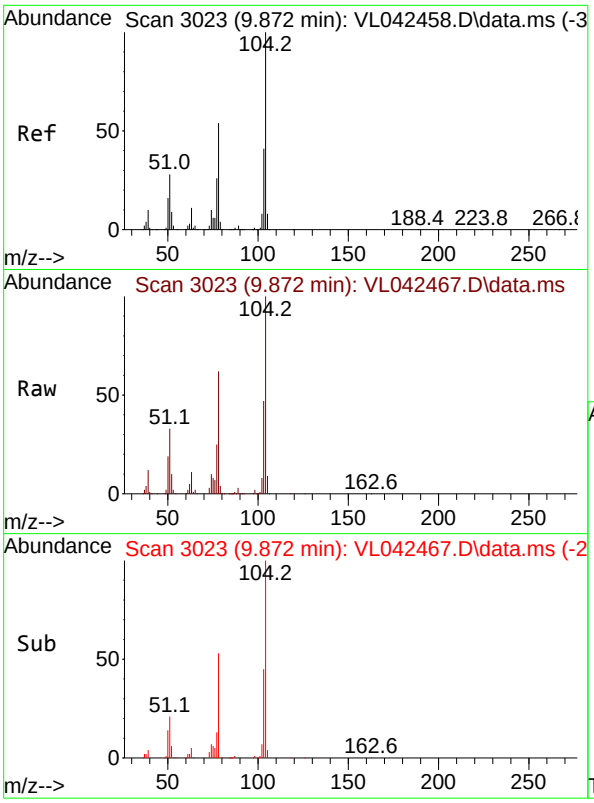


#60
o-Xylene
Concen: 10.824 ppbv
RT: 9.966 min Scan# 3052
Delta R.T. 0.003 min
Lab File: VL042467.D
Acq: 01 May 2025 15:46

Tgt Ion: 91 Resp: 238347

Ion	Ratio	Lower	Upper
91	100		
106	38.2	20.1	60.2

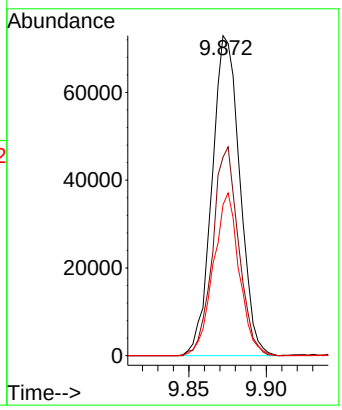




#61
Styrene
Concen: 11.090 ppbv
RT: 9.872 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042467.D
Acq: 01 May 2025 15:46

Tgt Ion:104 Resp: 9112

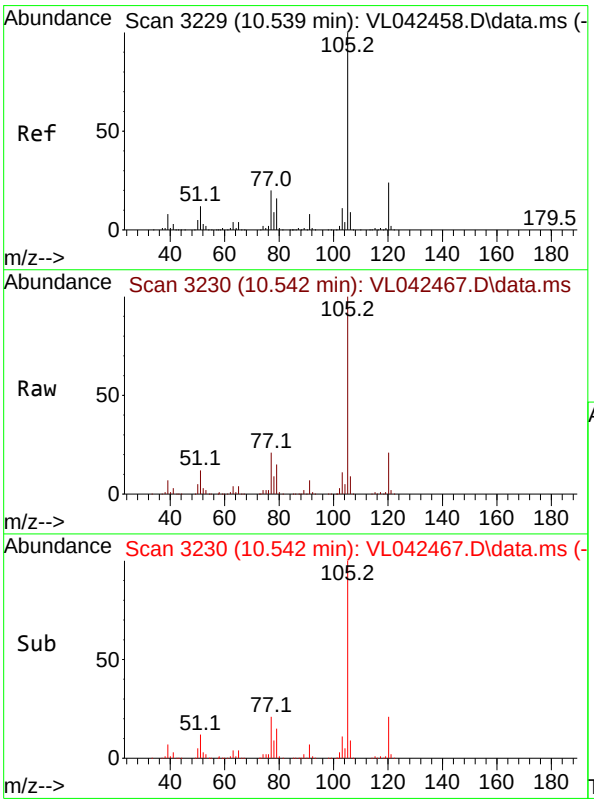
Ion	Ratio	Lower	Upper
104	100		
78	60.5	46.9	70.3
103	47.4	36.6	55.0



Instrument :
MSVOA_L
ClientSampleId :
ICVVL050125

Manual Integrations
APPROVED

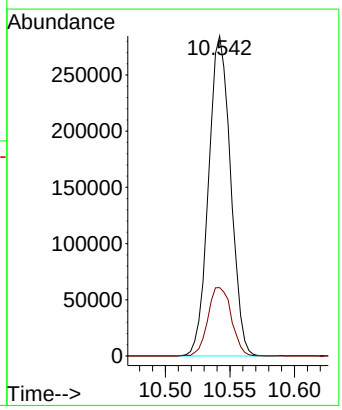
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

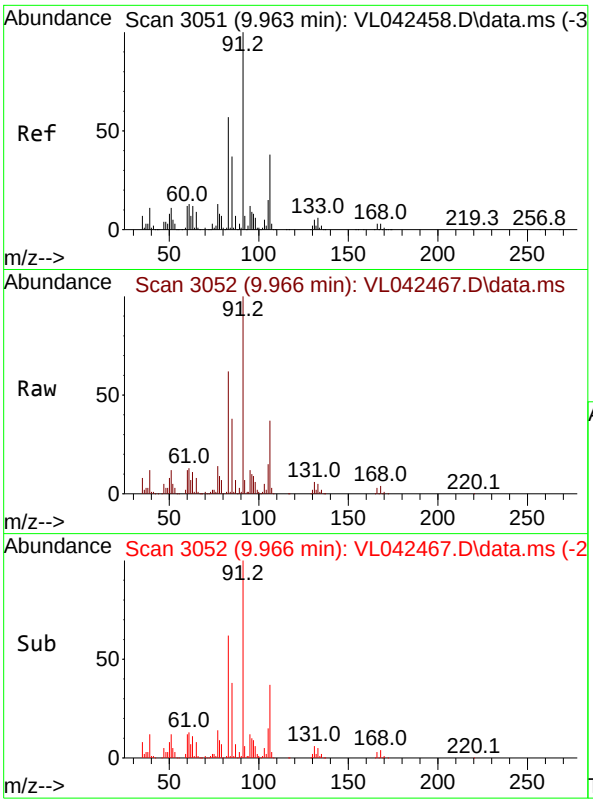


#62
Isopropylbenzene
Concen: 10.641 ppbv
RT: 10.542 min Scan# 3230
Delta R.T. 0.003 min
Lab File: VL042467.D
Acq: 01 May 2025 15:46

Tgt Ion:105 Resp: 337992

Ion	Ratio	Lower	Upper
105	100		
120	22.8	18.8	28.2





#63
1,1,2,2-Tetrachloroethane
Concen: 9.242 ppbv
RT: 9.966 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042467.D
Acq: 01 May 2025 15:46

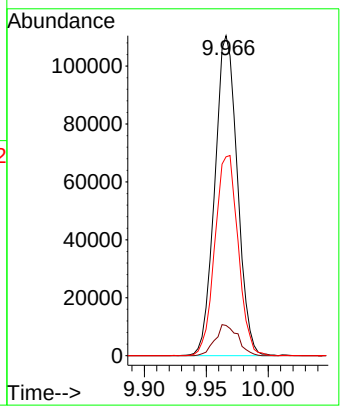
Tgt Ion: 83 Resp: 14030

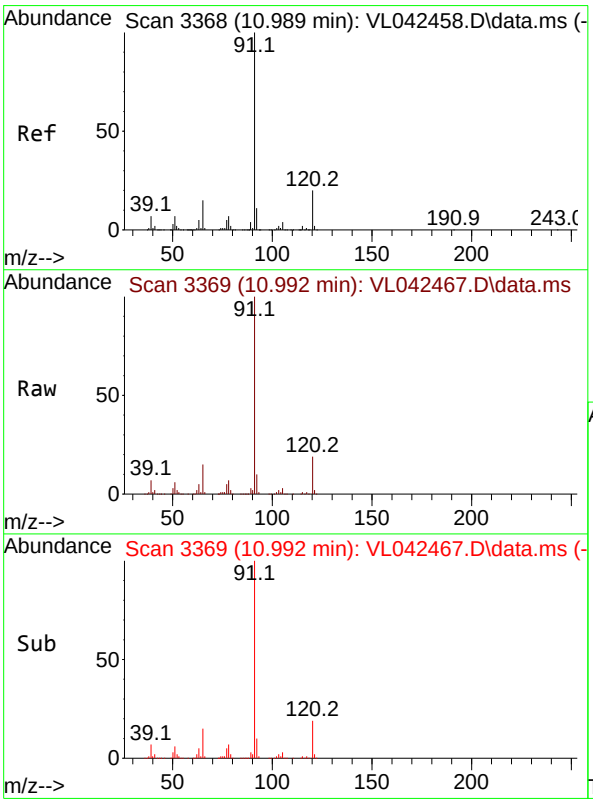
Ion	Ratio	Lower	Upper
83	100		
131	9.8	4.7	14.1
85	64.6	32.5	97.4

Instrument :
MSVOA_L
ClientSampleId :
ICVVL050125

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

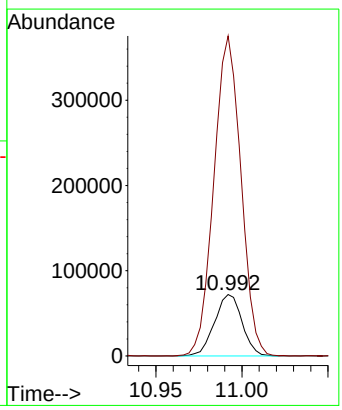


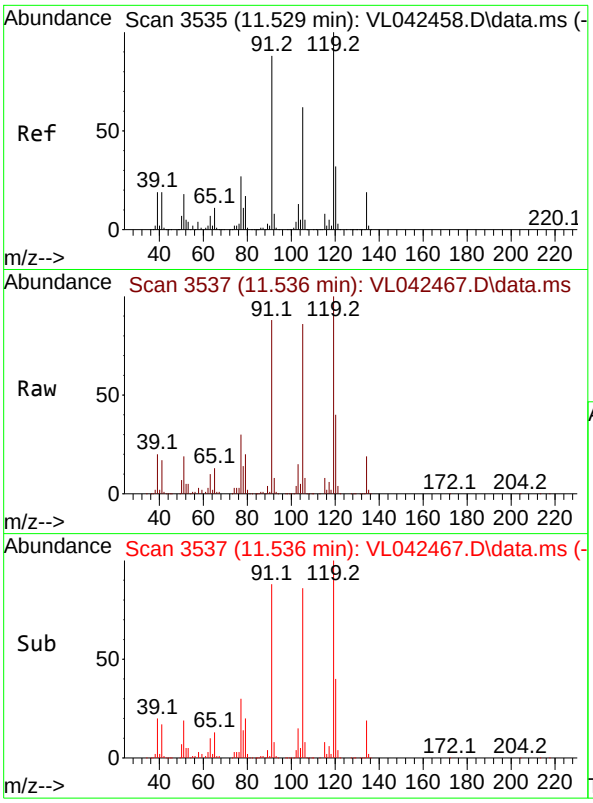


#64
n-propylbenzene
Concen: 10.303 ppbv
RT: 10.992 min Scan# 3369
Delta R.T. 0.003 min
Lab File: VL042467.D
Acq: 01 May 2025 15:46

Tgt Ion:120 Resp: 79983

Ion	Ratio	Lower	Upper
120	100		
91	514.2	408.6	612.8

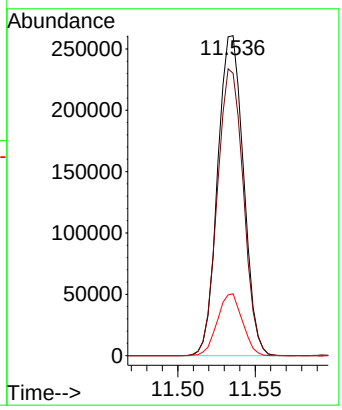




#65
tert-Butylbenzene
Concen: 10.672 ppbv
RT: 11.536 min Scan# 3
Delta R.T. 0.007 min
Lab File: VL042467.D
Acq: 01 May 2025 15:46

Tgt Ion:119 Resp: 30250

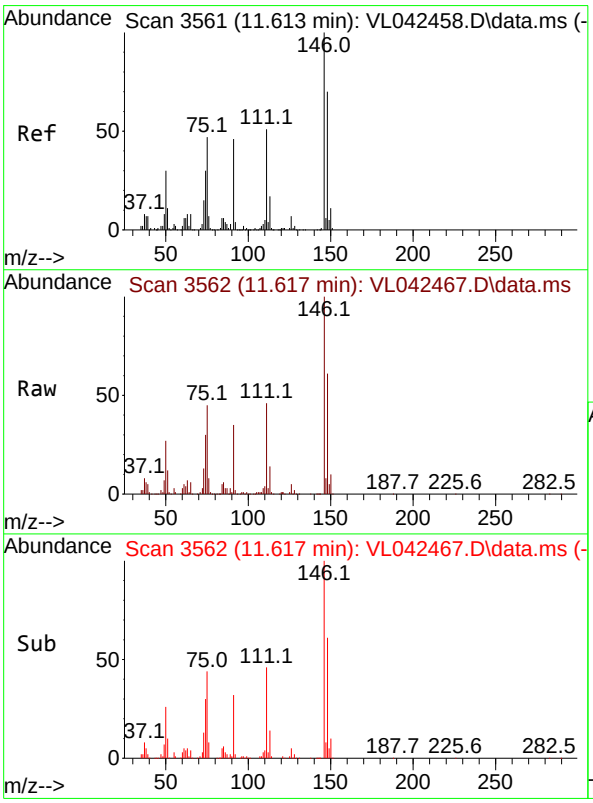
Ion	Ratio	Lower	Upper
119	100		
91	90.4	71.6	107.4
134	18.7	15.0	22.4



Instrument :
MSVOA_L
ClientSampleId :
ICVVL050125

Manual Integrations
APPROVED

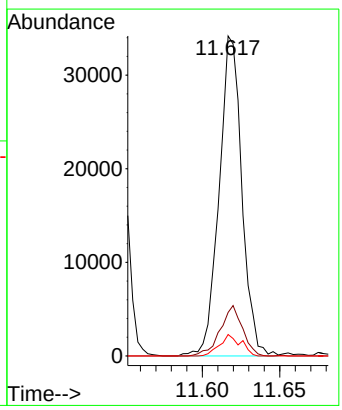
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

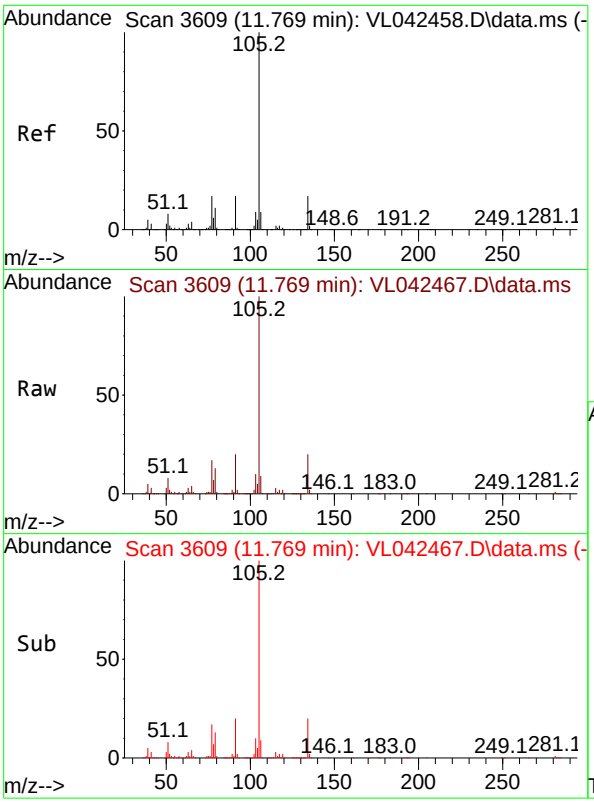


#66
Benzyl Chloride
Concen: 10.663 ppbv
RT: 11.617 min Scan# 3562
Delta R.T. 0.003 min
Lab File: VL042467.D
Acq: 01 May 2025 15:46

Tgt Ion: 91 Resp: 34933

Ion	Ratio	Lower	Upper
91	100		
126	15.5	13.3	19.9
128	6.2	4.2	6.4

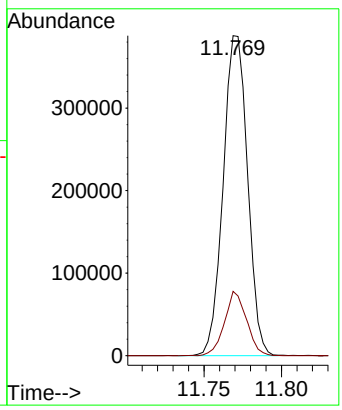




#67
sec-Butylbenzene
Concen: 10.562 ppbv
RT: 11.769 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042467.D
Acq: 01 May 2025 15:46

Tgt Ion:105 Resp: 42544

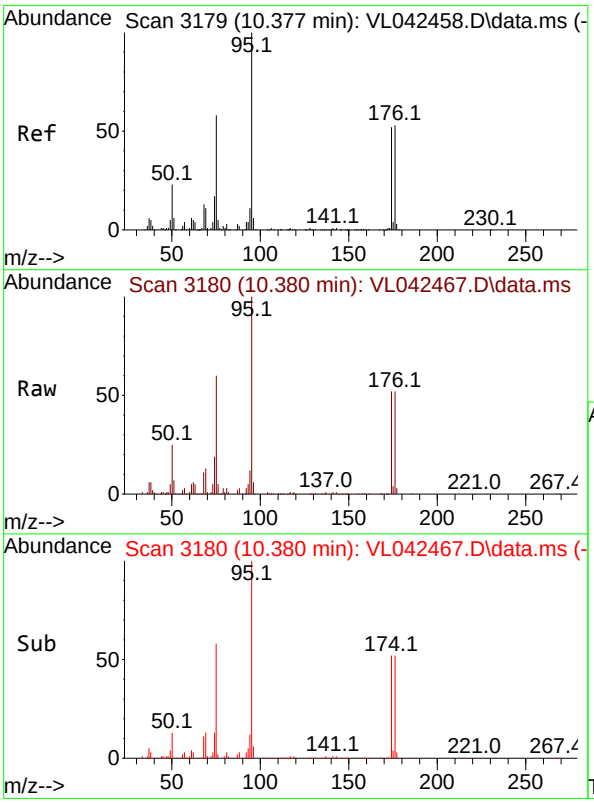
Ion	Ratio	Lower	Upper
105	100		
134	18.2	14.1	21.1



Instrument :
MSVOA_L
ClientSampleId :
ICVVL050125

Manual Integrations
APPROVED

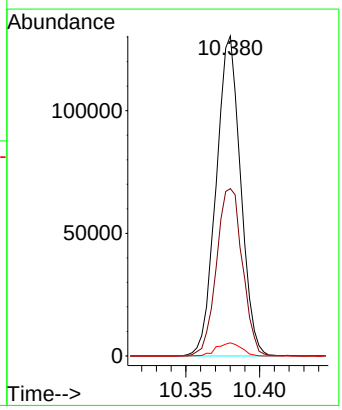
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

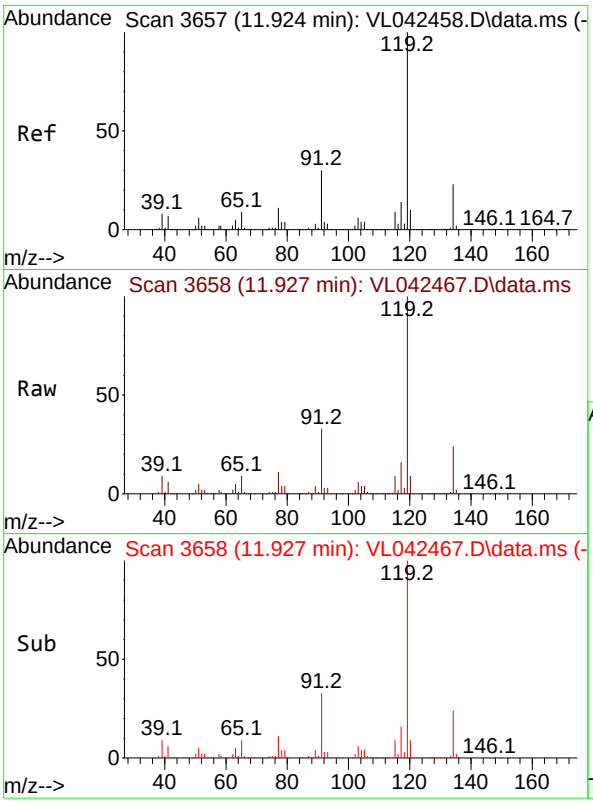


#68
1-Bromo-4-Fluorobenzene
Concen: 10.342 ppbv
RT: 10.380 min Scan# 3180
Delta R.T. 0.003 min
Lab File: VL042467.D
Acq: 01 May 2025 15:46

Tgt Ion: 95 Resp: 150522

Ion	Ratio	Lower	Upper
95	100		
174	55.5	42.7	64.1
175	4.2	3.6	5.4

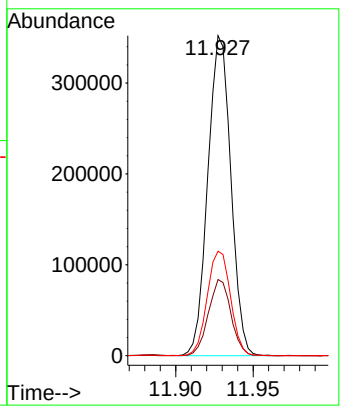




#69
p-Isopropyltoluene
Concen: 10.712 ppbv
RT: 11.927 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042467.D
Acq: 01 May 2025 15:46

Tgt Ion:119 Resp: 36356

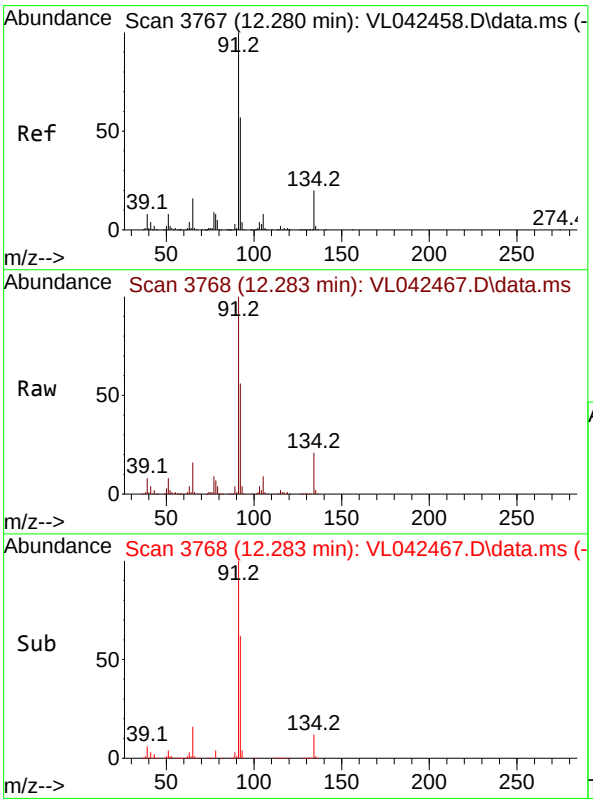
Ion	Ratio	Lower	Upper
119	100		
134	23.4	19.0	28.4
91	33.3	25.5	38.3



Instrument :
MSVOA_L
ClientSampleId :
ICVVL050125

Manual Integrations
APPROVED

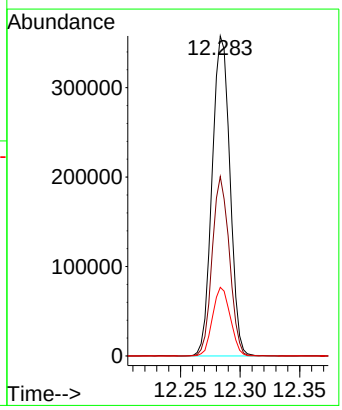
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

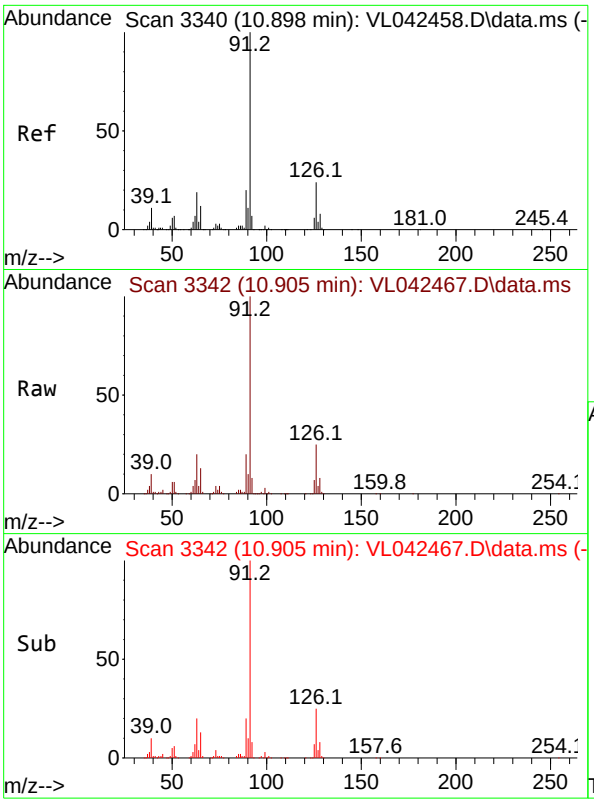


#70
n-Butylbenzene
Concen: 10.585 ppbv
RT: 12.283 min Scan# 3768
Delta R.T. 0.003 min
Lab File: VL042467.D
Acq: 01 May 2025 15:46

Tgt Ion: 91 Resp: 371369

Ion	Ratio	Lower	Upper
91	100		
92	54.2	44.0	66.0
134	21.3	16.8	25.2

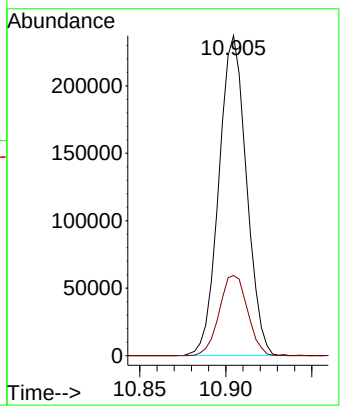




#71
2-Chlorotoluene
Concen: 10.599 ppbv
RT: 10.905 min Scan# 3
Delta R.T. 0.007 min
Lab File: VL042467.D
Acq: 01 May 2025 15:46

Tgt Ion: 91 Resp: 26406

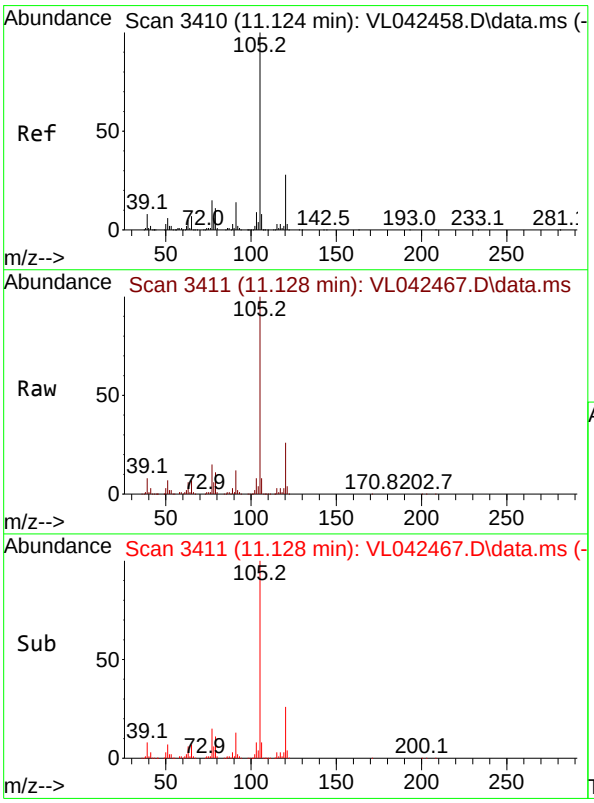
Ion	Ratio	Lower	Upper
91	100		
126	25.7	10.6	42.2



Instrument :
MSVOA_L
ClientSampleId :
ICVVL050125

Manual Integrations
APPROVED

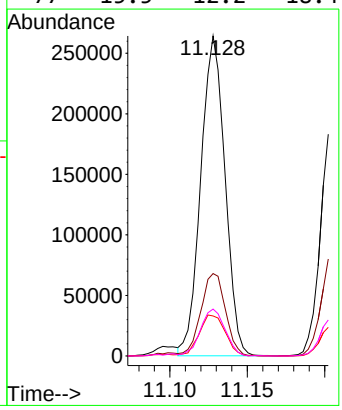
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

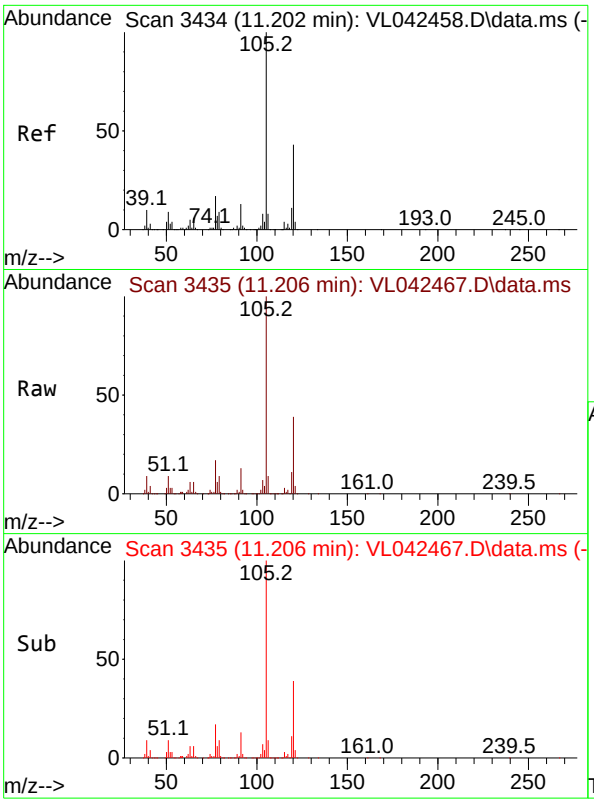


#72
4-Ethyltoluene
Concen: 11.069 ppbv
RT: 11.128 min Scan# 3411
Delta R.T. 0.003 min
Lab File: VL042467.D
Acq: 01 May 2025 15:46

Tgt Ion:105 Resp: 287375

Ion	Ratio	Lower	Upper
105	100		
120	27.1	22.0	33.0
91	14.3	11.2	16.8
77	15.5	12.2	18.4

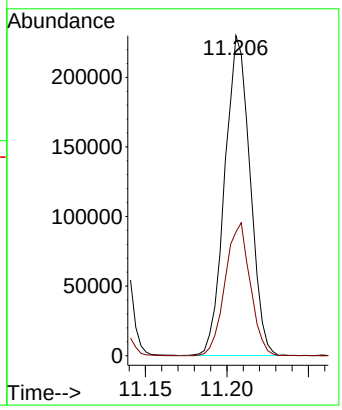




#73
1,3,5-Trimethylbenzene
Concen: 10.823 ppbv
RT: 11.206 min Scan# 34
Delta R.T. 0.003 min
Lab File: VL042467.D
Acq: 01 May 2025 15:46

Tgt Ion:105 Resp: 24712

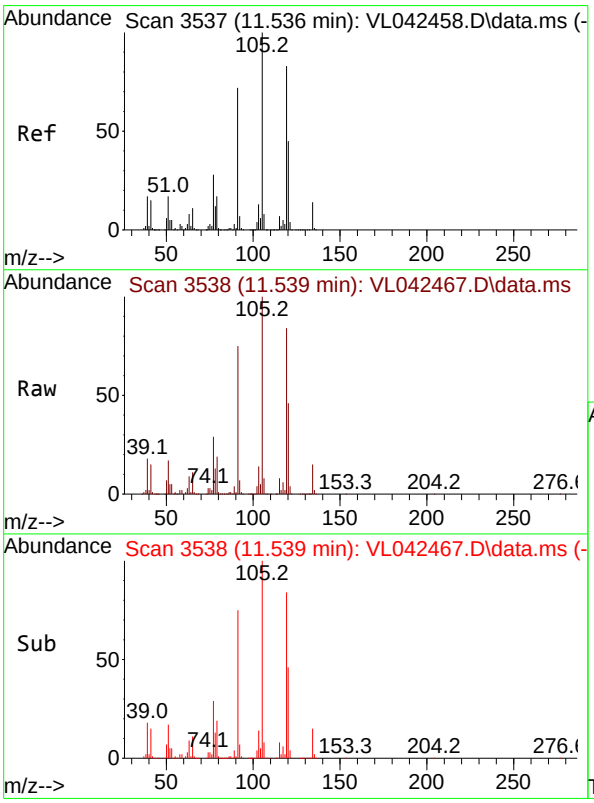
Ion	Ratio	Lower	Upper
105	100		
120	38.7	34.4	51.6



Instrument :
MSVOA_L
ClientSampleId :
ICVVL050125

Manual Integrations
APPROVED

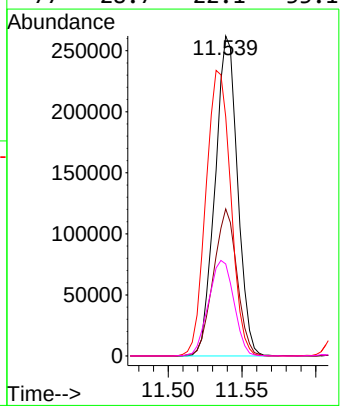
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

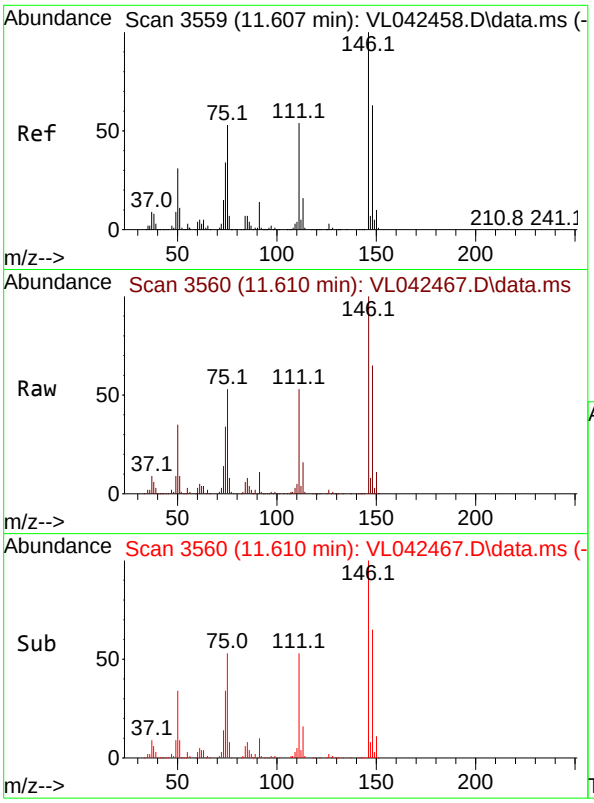


#74
1,2,4-Trimethylbenzene
Concen: 10.074 ppbv
RT: 11.539 min Scan# 3538
Delta R.T. 0.003 min
Lab File: VL042467.D
Acq: 01 May 2025 15:46

Tgt Ion:105 Resp: 278306

Ion	Ratio	Lower	Upper
105	100		
120	45.9	36.1	54.1
91	74.7	57.6	86.4
77	28.7	22.1	33.1

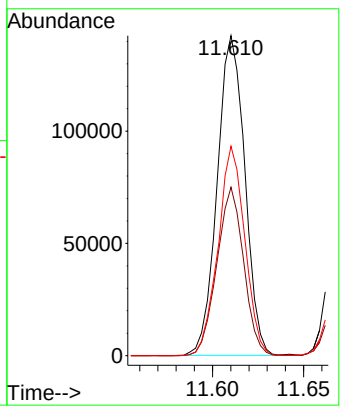




#75
1,3-Dichlorobenzene
Concen: 9.754 ppbv
RT: 11.610 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042467.D
Acq: 01 May 2025 15:46

Tgt Ion:146 Resp: 15002

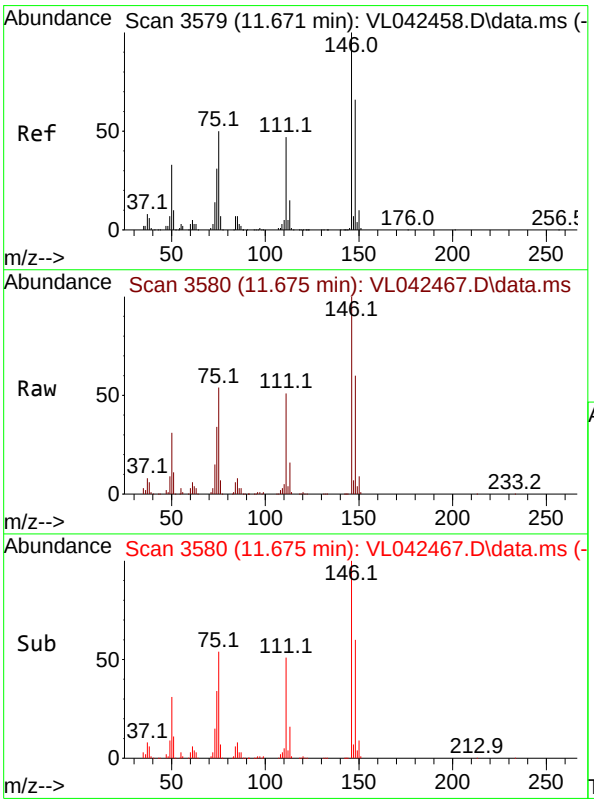
Ion	Ratio	Lower	Upper
146	100		
111	51.1	26.1	78.3
148	63.5	32.0	96.0



Instrument :
MSVOA_L
ClientSampleId :
ICVVL050125

Manual Integrations
APPROVED

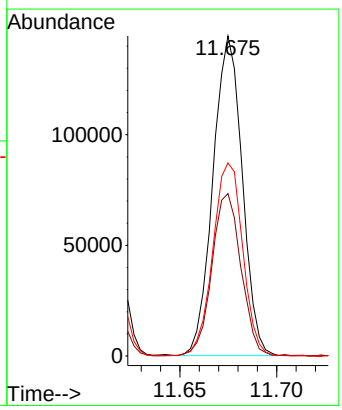
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

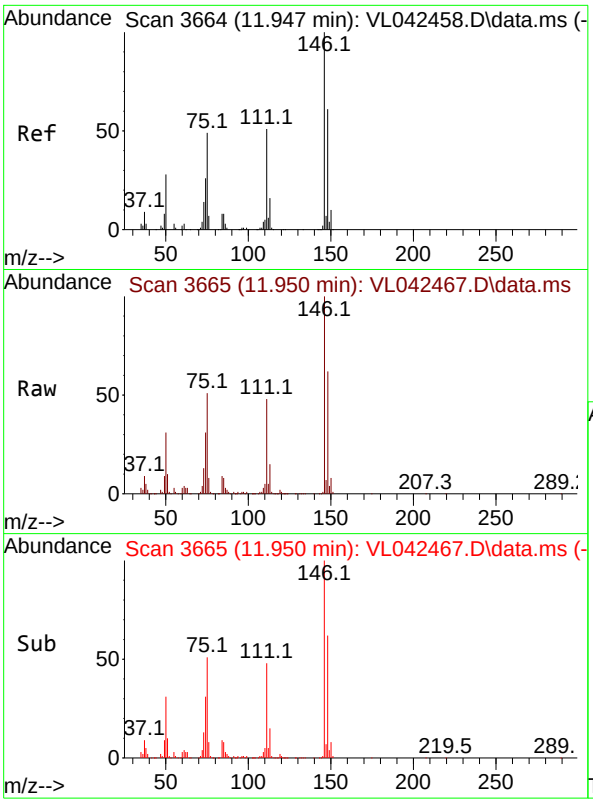


#76
1,4-Dichlorobenzene
Concen: 10.425 ppbv
RT: 11.675 min Scan# 3580
Delta R.T. 0.003 min
Lab File: VL042467.D
Acq: 01 May 2025 15:46

Tgt Ion:146 Resp: 151740

Ion	Ratio	Lower	Upper
146	100		
111	50.8	24.4	73.2
148	61.9	32.0	96.2

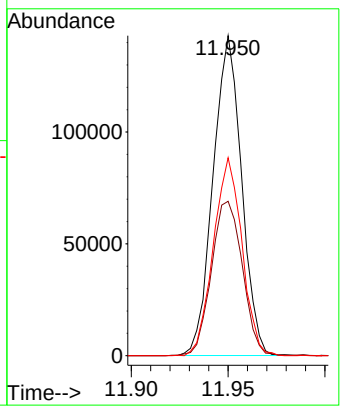




#77
1,2-Dichlorobenzene
Concen: 9.719 ppbv
RT: 11.950 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042467.D
Acq: 01 May 2025 15:46

Tgt Ion:146 Resp: 14631

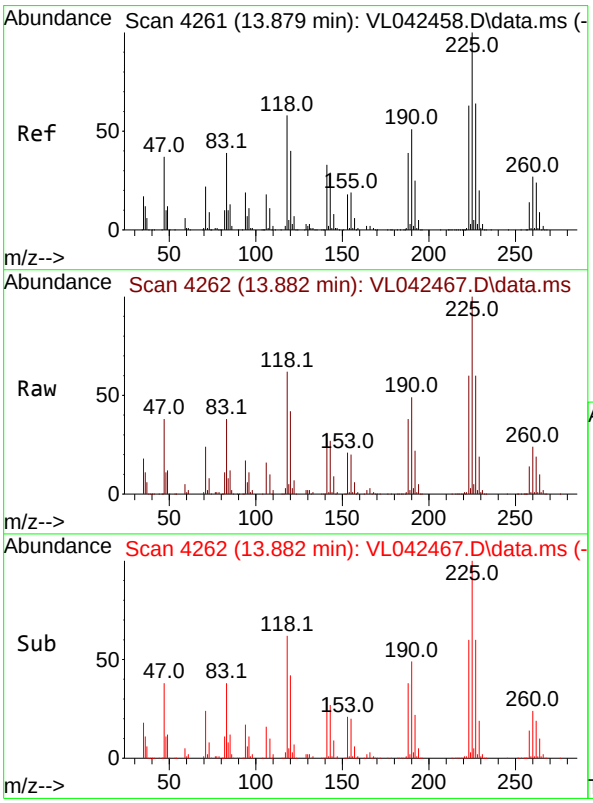
Ion	Ratio	Lower	Upper
146	100		
111	52.7	26.5	79.5
148	62.1	31.5	94.5



Instrument :
MSVOA_L
ClientSampleId :
ICVVL050125

Manual Integrations
APPROVED

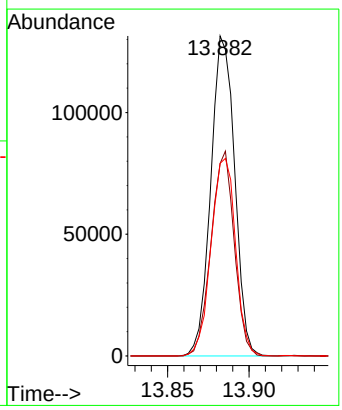
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

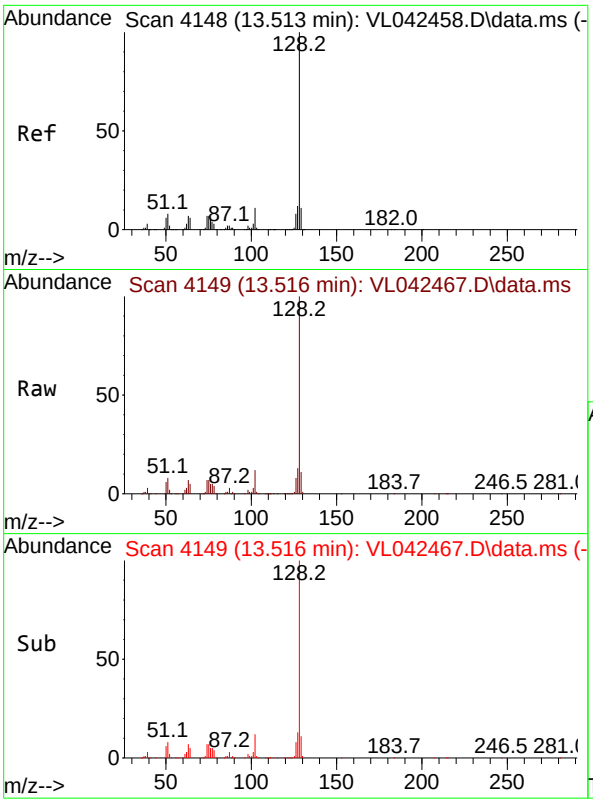


#78
Hexachloro-1,3-Butadiene
Concen: 8.893 ppbv
RT: 13.882 min Scan# 4262
Delta R.T. 0.003 min
Lab File: VL042467.D
Acq: 01 May 2025 15:46

Tgt Ion:225 Resp: 133688

Ion	Ratio	Lower	Upper
225	100		
223	62.2	50.2	75.4
227	63.5	51.2	76.8

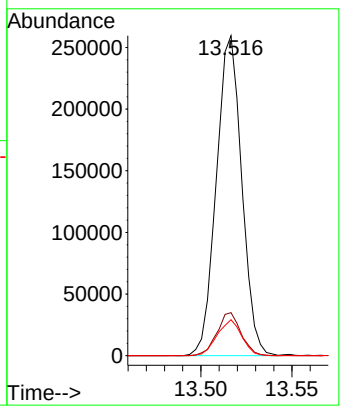




#79
Naphthalene
Concen: 10.806 ppbv
RT: 13.516 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL042467.D
Acq: 01 May 2025 15:46

Tgt Ion:128 Resp: 25131

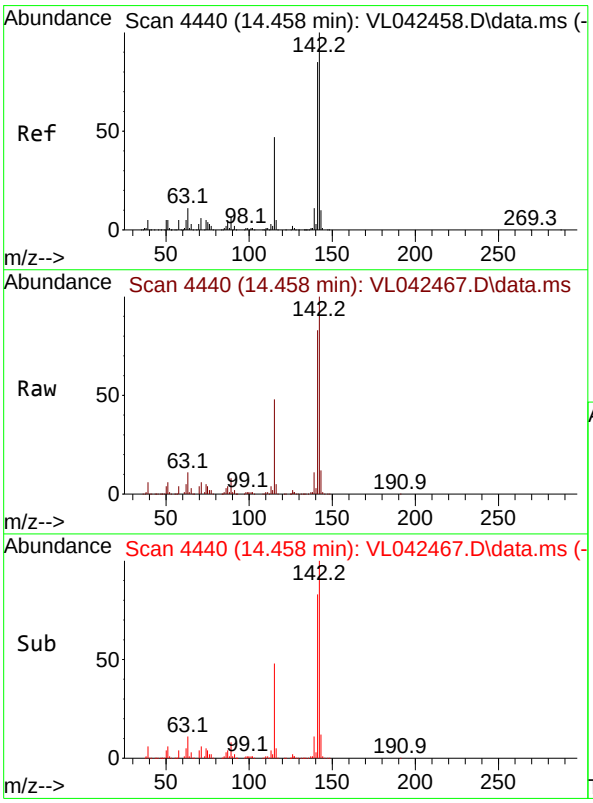
Ion	Ratio	Lower	Upper
128	100		
127	13.5	9.7	14.5
129	11.2	8.6	13.0



Instrument :
MSVOA_L
ClientSampleId :
ICVVL050125

Manual Integrations
APPROVED

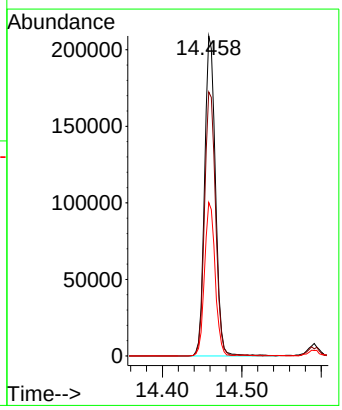
Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

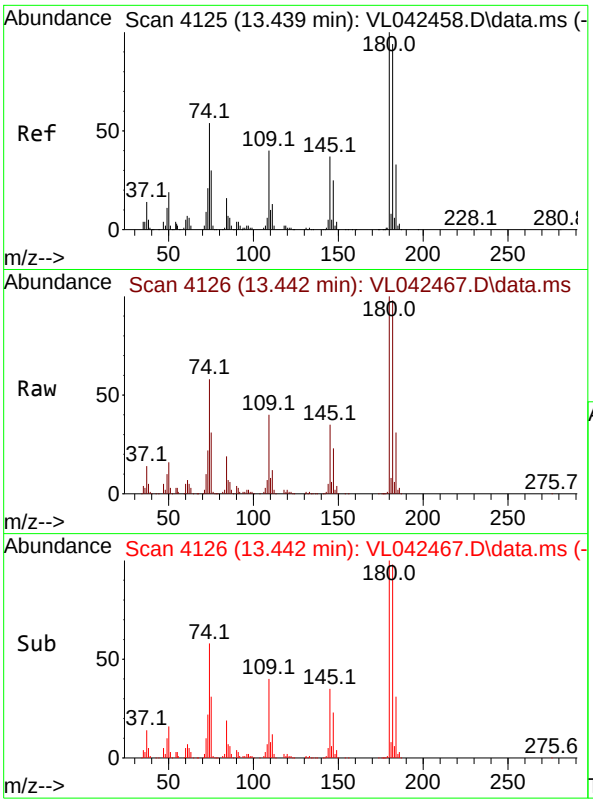


#80
Naphthalene,2-methyl-
Concen: 11.489 ppbv
RT: 14.458 min Scan# 4440
Delta R.T. 0.000 min
Lab File: VL042467.D
Acq: 01 May 2025 15:46

Tgt Ion:142 Resp: 198604

Ion	Ratio	Lower	Upper
142	100		
141	84.4	67.4	101.0
115	47.4	36.9	55.3

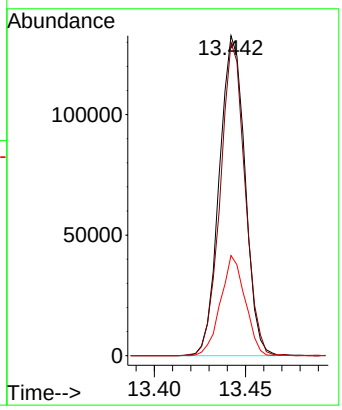




#81
1,2,4-Trichlorobenzene
Concen: 10.433 ppbv
RT: 13.442 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL042467.D
Acq: 01 May 2025 15:46

Tgt Ion:180 Resp: 12940

Ion	Ratio	Lower	Upper
180	100		
182	94.7	74.6	111.8
184	30.1	24.9	37.3



Instrument :
MSVOA_L
ClientSampleId :
ICVVL050125

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050125\
Data File : VL042467.D
Acq On : 01 May 2025 15:46
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
ICVVL050125

Quant Time: May 02 03:48:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri May 02 03:16:31 2025
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Bromochloromethane	1.000	1.000	0.0	89	0.00
2	T	Dichlorodifluoromethane	1.655	1.712	-3.4	104	0.00
3		Chlorodifluoromethane	1.750	1.736	0.8	98	0.00
4		Chloromethane	0.692	0.692	0.0	99	0.00
5	T	Vinyl Chloride	0.696	0.648	6.9	102	0.00
6	T	Bromomethane	0.329	0.331	-0.6	103	0.00
7		Chloroethane	0.257	0.262	-1.9	101	0.00
8	T	Dichlorotetrafluoroethane	1.364	1.406	-3.1	101	0.00
9	T	Propene	0.572	0.581	-1.6	98	0.00
10	T	Heptane	1.484	1.489	-0.3	92	0.00
11	T	Trichlorofluoromethane	1.527	1.585	-3.8	103	0.00
12	T	1,1,2-Trichlorotrifluoroeth	1.219	1.277	-4.8	103	0.00
13		Ethanol	0.116	0.090	22.4	101	0.00
14	T	Bromoethene	0.450	0.474	-5.3	106	0.00
15	T	Acetone	1.826	1.502	17.7	101	0.00
16	T	1,3-Butadiene	0.805	0.780	3.1	102	0.00
17		tert-Butyl alcohol	1.608	1.606	0.1	96	0.00
18	T	1,1-Dichloroethene	0.569	0.563	1.1	101	0.00
19	T	Isopropyl Alcohol	1.010	0.960	5.0	98	0.00
20	T	Methylene Chloride	0.549	0.491	10.6	97	0.00
21	T	Allyl Chloride	1.174	1.155	1.6	95	0.00
22	T	trans-1,2-Dichloroethene	0.665	0.676	-1.7	109	0.00
23	T	Vinyl Acetate	1.742	1.780	-2.2	92	0.00
24	T	1,1-Dichloroethane	1.357	1.403	-3.4	104	0.00
25	T	Ethyl Acetate	2.923	2.930	-0.2	92	0.00
26	T	Hexane	1.273	1.308	-2.7	96	0.00
27	T	Carbon Disulfide	1.486	1.577	-6.1	99	0.00
28	T	Methyl tert-Butyl Ether	0.765	0.761	0.5	101	0.00
29	T	Chloroform	2.386	2.398	-0.5	97	0.00
30	T	Cyclohexane	1.065	1.111	-4.3	95	0.00
31	T	cis-1,2-Dichloroethene	1.486	1.508	-1.5	100	0.00
32	T	1,1,1-Trichloroethane	2.589	2.541	1.9	99	0.00
33	I	1,4-Difluorobenzene	1.000	1.000	0.0	91	0.00
34	T	2-Butanone	0.723	0.685	5.3	95	0.00
35	T	Carbon Tetrachloride	0.908	0.908	0.0	100	0.00
36	T	Benzene	0.944	0.933	1.2	95	0.00
37	T	1,2-Dichloroethane	0.727	0.708	2.6	97	0.00
38	T	Trichloroethene	0.360	0.359	0.3	94	0.00
39	T	1,2-Dichloropropane	0.353	0.327	7.4	94	0.00
40	T	1,4-Dioxane	0.165	0.154	6.7	93	0.00
41	T	Tetrahydrofuran	0.344	0.325	5.5	91	0.00
42	T	Bromodichloromethane	0.889	0.889	0.0	97	0.00
43		Methyl Methacrylate	0.352	0.368	-4.5	92	0.00
44	T	2,2,4-Trimethylpentane	1.530	1.509	1.4	96	0.00
45	T	t-1,3-Dichloropropene	0.462	0.488	-5.6	93	0.00
46	T	cis-1,3-Dichloropropene	0.549	0.570	-3.8	94	0.00
47	T	1,1,2-Trichloroethane	0.387	0.369	4.7	94	0.00
48	T	Dibromochloromethane	0.654	0.661	-1.1	96	0.00

Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050125\
Data File : VL042467.D
Acq On : 01 May 2025 15:46
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
ICVVL050125

Quant Time: May 02 03:48:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri May 02 03:16:31 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	0.556	-1.3	96	0.00
50	T	4-Methyl-2-Pentanone	0.915	0.867	5.2	91	0.00
51	T	2-Hexanone	0.731	0.688	5.9	87	0.00
52	T	Tetrachloroethene	0.359	0.317	11.7	95	0.00
53	T	Toluene	0.999	1.045	-4.6	94	0.00
54	T	1,2-Dibromoethane	0.592	0.572	3.4	94	0.00
55	I	Chlorobenzene-d5	1.000	1.000	0.0	90	0.00
56		1,1,1,2-Tetrachloroethane	0.591	0.588	0.5	98	0.00
57	T	Chlorobenzene	1.005	0.948	5.7	95	0.00
58	T	Ethyl Benzene	1.671	1.788	-7.0	93	0.00
59	T	m/p-Xylene	1.401	1.494	-6.6	94	0.03
60	T	o-Xylene	1.403	1.518	-8.2	96	0.00
61	T	Styrene	0.523	0.580	-10.9	90	0.00
62		Isopropylbenzene	2.023	2.153	-6.4	95	0.00
63	T	1,1,2,2-Tetrachloroethane	0.967	0.894	7.5	95	0.00
64		n-propylbenzene	0.495	0.510	-3.0	95	0.00
65		tert-Butylbenzene	1.806	1.927	-6.7	96	0.00
66	T	Benzyl Chloride	0.209	0.223	-6.7	87	0.00
67		sec-Butylbenzene	2.566	2.710	-5.6	96	0.00
68	S	1-Bromo-4-Fluorobenzene	0.927	0.959	-3.5	91	0.00
69		p-Isopropyltoluene	2.162	2.316	-7.1	97	0.00
70		n-Butylbenzene	2.235	2.366	-5.9	97	0.00
71		2-Chlorotoluene	1.587	1.682	-6.0	95	0.00
72	T	4-Ethyltoluene	1.654	1.831	-10.7	96	0.00
73	T	1,3,5-Trimethylbenzene	1.455	1.574	-8.2	96	0.00
74	T	1,2,4-Trimethylbenzene	1.760	1.773	-0.7	97	0.00
75	T	1,3-Dichlorobenzene	0.980	0.956	2.4	96	0.00
76	T	1,4-Dichlorobenzene	0.927	0.967	-4.3	96	0.00
77	T	1,2-Dichlorobenzene	0.959	0.932	2.8	97	0.00
78	T	Hexachloro-1,3-Butadiene	0.958	0.852	11.1	99	0.00
79	T	Naphthalene	1.482	1.601	-8.0	94	0.00
80	T	Naphthalene,2-methyl-	1.101	1.265	-14.9	97	0.00
81	T	1,2,4-Trichlorobenzene	0.790	0.824	-4.3	96	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

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: TETR16

Lab Code: CHEM Case No.: Q1927 SAS No.: Q1927 SDG No.: Q1927

Instrument ID: MSVOA_L Calibration Date/Time: 05/05/2025 08:29

Lab File ID: VL042469.D Init. Calib. Date(s): 05/01/2025 05/01/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 09:03 14:10

GC Column: RTX-1 ID: 0.32 (mm)

COMPOUND	RRF	RRF010	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	1.655	1.672		1.03	30
Chloromethane	0.692	0.663		-4.19	30
Vinyl Chloride	0.696	0.623		-10.49	30
Bromomethane	0.329	0.350		6.38	30
Chloroethane	0.257	0.258		0.39	30
Tetrahydrofuran	0.344	0.318		-7.56	30
Trichlorofluoromethane	1.527	1.574		3.08	30
1,1,2-Trichlorotrifluoroethane	1.219	1.241		1.8	30
Dichlorotetrafluoroethane	1.364	1.393		2.13	30
tert-Butyl alcohol	1.608	1.660		3.23	30
Heptane	1.484	1.463		-1.41	30
1,1-Dichloroethene	0.569	0.565		-0.7	30
Acetone	1.826	1.482		-18.8	30
Carbon Disulfide	1.486	1.615		8.68	30
Methyl tert-Butyl Ether	0.765	0.722		-5.62	30
Methylene Chloride	0.549	0.485		-11.66	30
trans-1,2-Dichloroethene	0.665	0.630		-5.26	30
1,1-Dichloroethane	1.357	1.305		-3.83	30
Cyclohexane	1.065	1.051		-1.32	30
2-Butanone	0.723	0.649		-10.23	30
Carbon Tetrachloride	0.908	0.919		1.21	30
cis-1,2-Dichloroethene	1.486	1.435		-3.43	30
Chloroform	2.386	2.324		-2.6	30
1,1,1-Trichloroethane	2.589	2.470		-4.6	30
2,2,4-Trimethylpentane	1.530	1.505		-1.63	30
Benzene	0.944	0.928		-1.7	30
1,2-Dichloroethane	0.727	0.706		-2.89	30
Trichloroethene	0.360	0.369		2.5	30
1,2-Dichloropropane	0.353	0.324		-8.22	30
Bromodichloromethane	0.889	0.920		3.49	30
4-Methyl-2-Pentanone	0.915	0.881		-3.72	30
Toluene	0.999	1.063		6.41	30
t-1,3-Dichloropropene	0.462	0.507		9.74	30
cis-1,3-Dichloropropene	0.549	0.567		3.28	30
1,1,2-Trichloroethane	0.387	0.374		-3.36	30
Dibromochloromethane	0.654	0.690		5.51	30
1,2-Dibromoethane	0.592	0.577		-2.53	30
Tetrachloroethene	0.359	0.325		-9.47	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: TETR16

Lab Code: CHEM Case No.: Q1927 SAS No.: Q1927 SDG No.: Q1927

Instrument ID: MSVOA_L Calibration Date/Time: 05/05/2025 08:29

Lab File ID: VL042469.D Init. Calib. Date(s): 05/01/2025 05/01/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 09:03 14:10

GC Column: RTX-1 ID: 0.32 (mm)

COMPOUND	RRF	RRF010	MIN RRF	%D	MAX%D
Chlorobenzene	1.005	0.933		-7.16	30
Ethyl Benzene	1.671	1.752		4.85	30
m/p-Xylene	1.401	1.496		6.78	30
o-Xylene	1.403	1.480		5.49	30
Styrene	0.523	0.584		11.66	30
Bromoform	0.549	0.571		4.01	30
1,1,2,2-Tetrachloroethane	0.967	0.884		-8.58	30
2-Chlorotoluene	1.587	1.667		5.04	30
1,3,5-Trimethylbenzene	1.455	1.570		7.9	30
1,2,4-Trimethylbenzene	1.760	1.770		0.57	30
1,3-Dichlorobenzene	0.980	0.950		-3.06	30
1,4-Dichlorobenzene	0.927	0.980		5.72	30
1,2-Dichlorobenzene	0.959	0.926		-3.44	30
1,2,4-Trichlorobenzene	0.790	0.836		5.82	30
Hexachloro-1,3-Butadiene	0.958	0.853		-10.96	30
1,3-Butadiene	0.805	0.760		-5.59	30
Naphthalene	1.482	1.625		9.65	30
4-Ethyltoluene	1.654	1.804		9.01	30
1-Bromo-4-Fluorobenzene	0.927	0.947		2.16	30
Hexane	1.273	1.273		0	30
Allyl Chloride	1.174	1.165		-0.77	30
1,4-Dioxane	165.429	142.635		-13.78	30
Methyl Methacrylate	0.352	0.367		4.26	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\VL050525\
Data File : VL042469.D
Acq On : 05 May 2025 08:29
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 06 01:38:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Fri May 02 03:16:31 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.790	49	74861	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	207859	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	180939	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.380	95	171319	10.212	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 102.100%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	125145	10.102	ppbv	99
3) Chlorodifluoromethane	1.476	51	122899	9.383	ppbv	99
4) Chloromethane	1.534	50	49599	9.579	ppbv	92
5) Vinyl Chloride	1.580	62	46672	8.953	ppbv	98
6) Bromomethane	1.667	94	26234	10.651	ppbv	92
7) Chloroethane	1.706	64	19310	10.032	ppbv	99
8) Dichlorotetrafluoroethane	1.554	85	104312	10.214	ppbv	99
9) Propene	1.486	41	39686	9.264	ppbv	98
10) Heptane	4.985	43	109506	9.854	ppbv	99
11) Trichlorofluoromethane	1.878	101	117806	10.305	ppbv	99
12) 1,1,2-Trichlorotrifluo...	2.140	101	92903	10.178	ppbv	99
13) Ethanol	1.722	45	6032	6.938	ppbv	97
14) Bromoethene	1.784	108	33877	10.053	ppbv	99
15) Acetone	1.835	43	110962	8.120	ppbv	99
16) 1,3-Butadiene	1.609	39	56863	9.434	ppbv	99
17) tert-Butyl alcohol	2.043	59	124285	10.323	ppbv	100
18) 1,1-Dichloroethene	2.036	96	42276	9.919	ppbv	96
19) Isopropyl Alcohol	1.887	45	73049	9.658	ppbv	99
20) Methylene Chloride	2.062	84	36341	8.845	ppbv	96
21) Allyl Chloride	2.098	41	87203	9.922	ppbv	98
22) trans-1,2-Dichloroethene	2.340	96	47159	9.474	ppbv	92
23) Vinyl Acetate	2.463	43	134402	10.305	ppbv	98
24) 1,1-Dichloroethane	2.412	63	97677	9.619	ppbv	100
25) Ethyl Acetate	2.839	43	212175	9.697	ppbv	100
26) Hexane	2.826	57	95290	9.996	ppbv	95
27) Carbon Disulfide	2.153	76	120890	10.867	ppbv #	92
28) Methyl tert-Butyl Ether	2.444	73	54017	9.432	ppbv	96
29) Chloroform	2.852	83	173954	9.738	ppbv	97
30) Cyclohexane	3.858	84	78668	9.871	ppbv	98
31) cis-1,2-Dichloroethene	2.722	61	107420	9.659	ppbv	96
32) 1,1,1-Trichloroethane	3.370	97	184899	9.540	ppbv	99
34) 2-Butanone	2.560	43	134813	8.967	ppbv	93
35) Carbon Tetrachloride	3.765	117	191095	10.120	ppbv	97
36) Benzene	3.661	78	192975	9.838	ppbv	96
37) 1,2-Dichloroethane	3.221	62	146792	9.710	ppbv	99
38) Trichloroethene	4.554	130	76779	10.264	ppbv	89
39) 1,2-Dichloropropane	4.318	63	67421	9.181	ppbv	93
40) 1,4-Dioxane	4.590	88	29648	8.622	ppbv #	100
41) Tetrahydrofuran	3.059	42	66188	9.263	ppbv	97
42) Bromodichloromethane	4.496	83	191130	10.347	ppbv	98
43) Methyl Methacrylate	4.881	69	76368	10.433	ppbv	99
44) 2,2,4-Trimethylpentane	4.645	57	312811	9.838	ppbv	100
45) t-1,3-Dichloropropene	6.422	75	105437	10.980	ppbv	93

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050525\
Data File : VL042469.D
Acq On : 05 May 2025 08:29
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 06 01:38:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Fri May 02 03:16:31 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) cis-1,3-Dichloropropene	5.609	75	117796	10.321	ppbv		96
47) 1,1,2-Trichloroethane	6.590	97	77722	9.651	ppbv		90
48) Dibromochloromethane	7.393	129	143524	10.556	ppbv		97
49) Bromoform	9.490	173	118610	10.402	ppbv		99
50) 4-Methyl-2-Pentanone	5.758	43	183038	9.625	ppbv		98
51) 2-Hexanone	7.445	43	147526	9.703	ppbv	#	97
52) Tetrachloroethene	8.231	164	67482	9.038	ppbv		95
53) Toluene	6.940	91	220871	10.638	ppbv		98
54) 1,2-Dibromoethane	7.658	107	119914	9.739	ppbv		96
56) 1,1,1,2-Tetrachloroethane	8.930	131	106249	9.942	ppbv		99
57) Chlorobenzene	8.927	112	168792	9.284	ppbv		96
58) Ethyl Benzene	9.361	91	317094	10.487	ppbv		100
59) m/p-Xylene	9.558	91	541542m	21.363	ppbv		
60) o-Xylene	9.969	91	267806	10.552	ppbv		100
61) Styrene	9.879	104	105698	11.160	ppbv		97
62) Isopropylbenzene	10.545	105	385788	10.538	ppbv		99
63) 1,1,2,2-Tetrachloroethane	9.966	83	159883	9.137	ppbv		99
64) n-propylbenzene	10.992	120	93317	10.429	ppbv		98
65) tert-Butylbenzene	11.536	119	349071	10.684	ppbv		99
66) Benzyl Chloride	11.620	91	50060	13.257	ppbv		96
67) sec-Butylbenzene	11.772	105	490679	10.568	ppbv		99
69) p-Isopropyltoluene	11.931	119	417116	10.663	ppbv		99
70) n-Butylbenzene	12.287	91	427083	10.561	ppbv		99
71) 2-Chlorotoluene	10.905	91	301623	10.504	ppbv		98
72) 4-Ethyltoluene	11.128	105	326323	10.905	ppbv		100
73) 1,3,5-Trimethylbenzene	11.209	105	283998	10.791	ppbv		98
74) 1,2,4-Trimethylbenzene	11.542	105	320216	10.056	ppbv		94
75) 1,3-Dichlorobenzene	11.610	146	171827	9.693	ppbv		99
76) 1,4-Dichlorobenzene	11.675	146	177262	10.566	ppbv		99
77) 1,2-Dichlorobenzene	11.950	146	167623	9.660	ppbv		99
78) Hexachloro-1,3-Butadiene	13.885	225	154431	8.913	ppbv		100
79) Naphthalene	13.517	128	294069	10.970	ppbv		98
80) Naphthalene,2-methyl-	14.462	142	236563	11.873	ppbv		99
81) 1,2,4-Trichlorobenzene	13.445	180	151252	10.580	ppbv		99

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

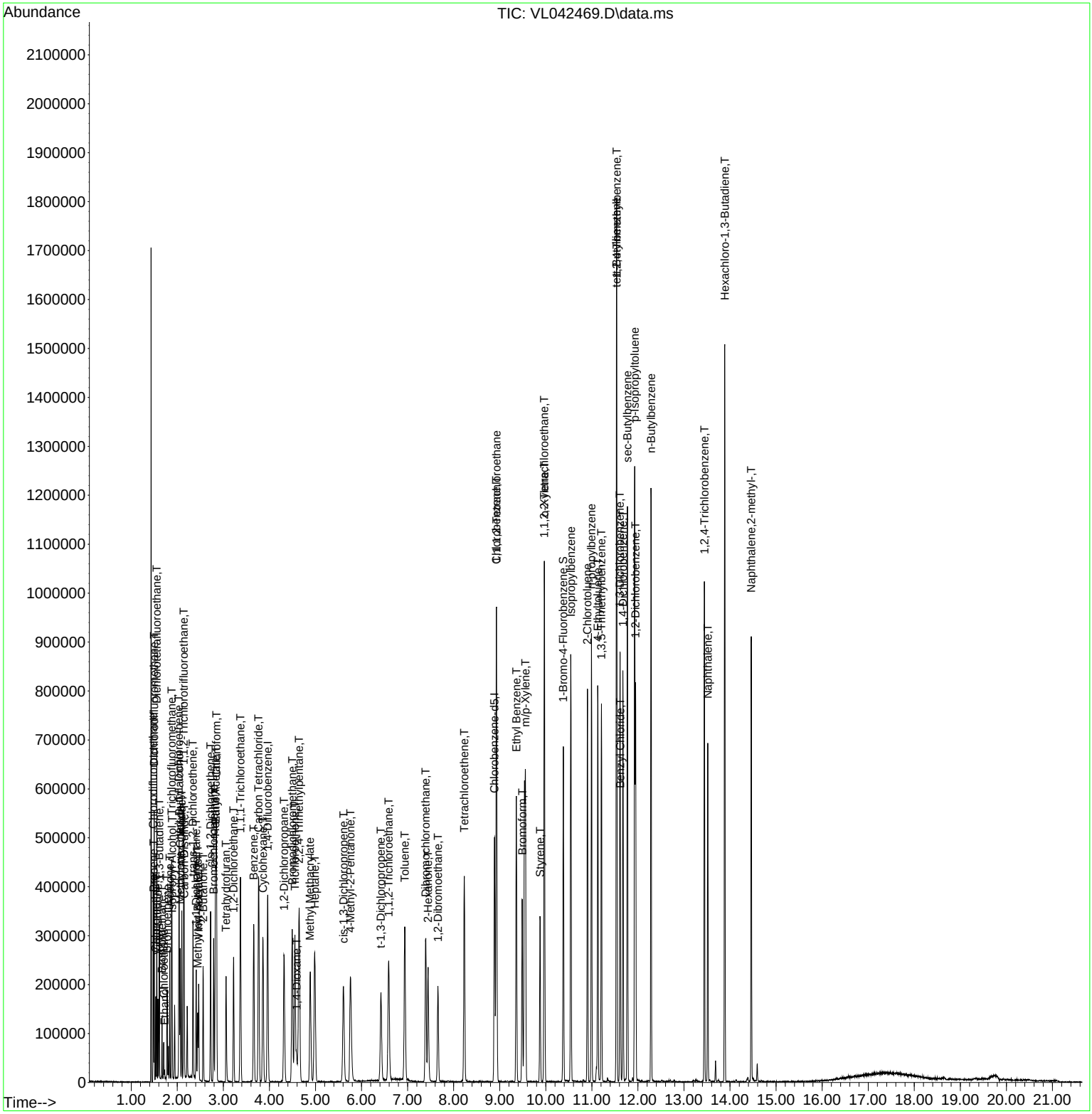
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050525\
Data File : VL042469.D
Acq On : 05 May 2025 08:29
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

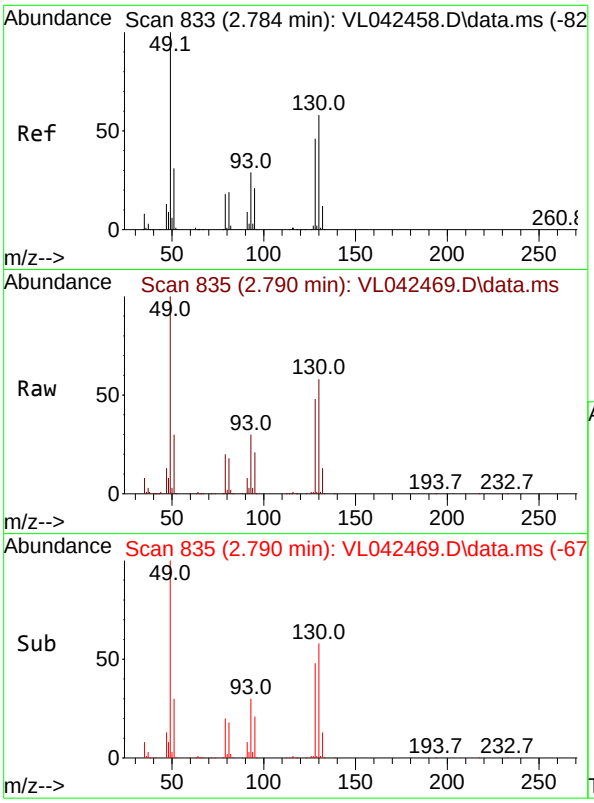
Quant Time: May 06 01:38:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri May 02 03:16:31 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

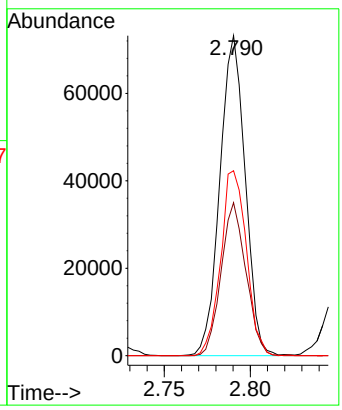




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 8
Delta R.T. 0.006 min
Lab File: VL042469.D
Acq: 05 May 2025 08:29

Tgt Ion: 49 Resp: 7486

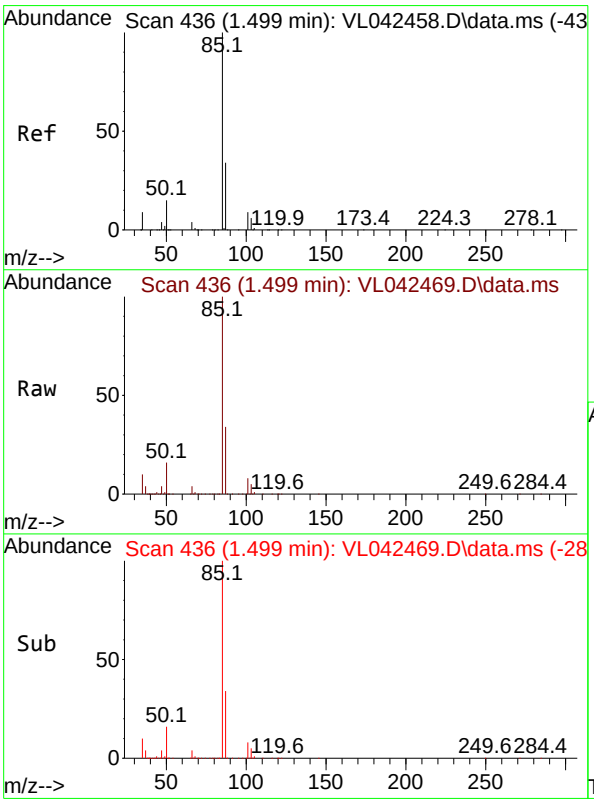
Ion	Ratio	Lower	Upper
49	100		
128	46.8	23.3	69.9
130	58.9	29.5	88.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

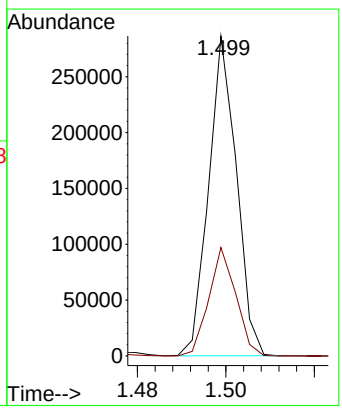
Reviewed By :Semsettin Yesilyurt 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

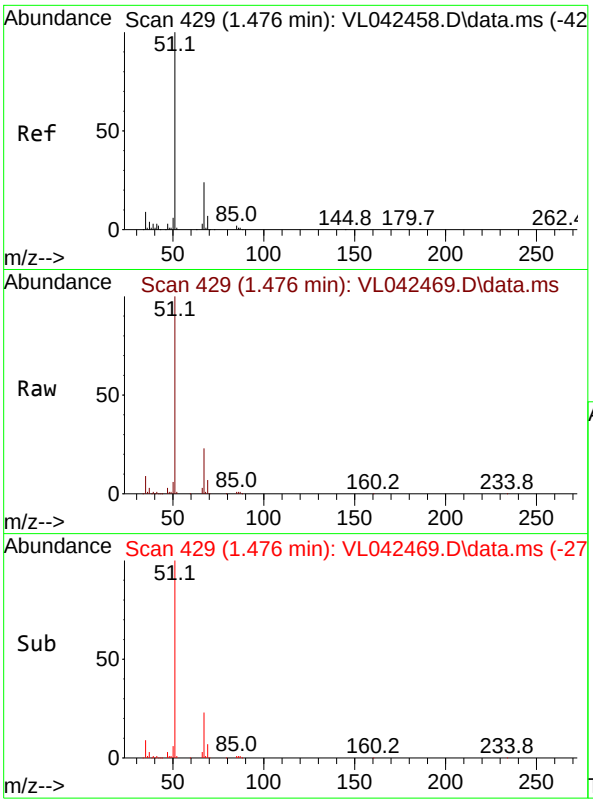


#2
Dichlorodifluoromethane
Concen: 10.102 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.000 min
Lab File: VL042469.D
Acq: 05 May 2025 08:29

Tgt Ion: 85 Resp: 125145

Ion	Ratio	Lower	Upper
85	100		
87	33.9	26.9	40.3

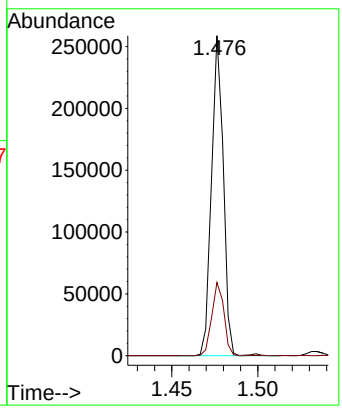




#3
Chlorodifluoromethane
Concen: 9.383 ppbv
RT: 1.476 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042469.D
Acq: 05 May 2025 08:29

Tgt Ion: 51 Resp: 12289

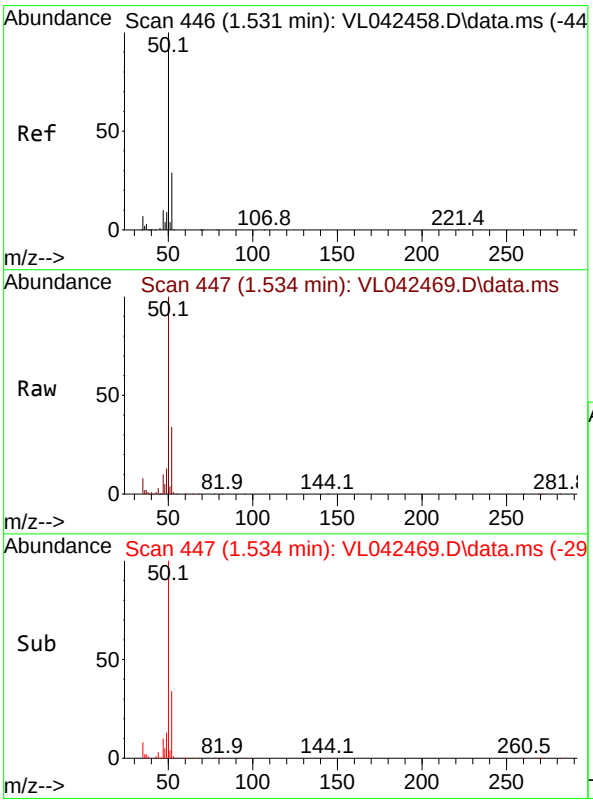
Ion	Ratio	Lower	Upper
51	100		
67	23.6	18.4	27.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

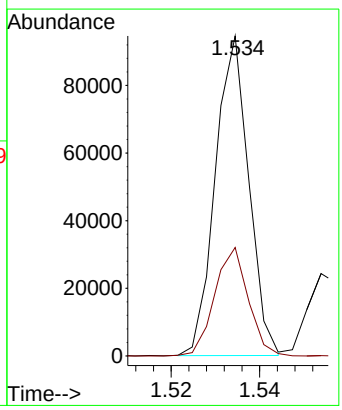
Reviewed By :Semsettin Yesilyurt 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

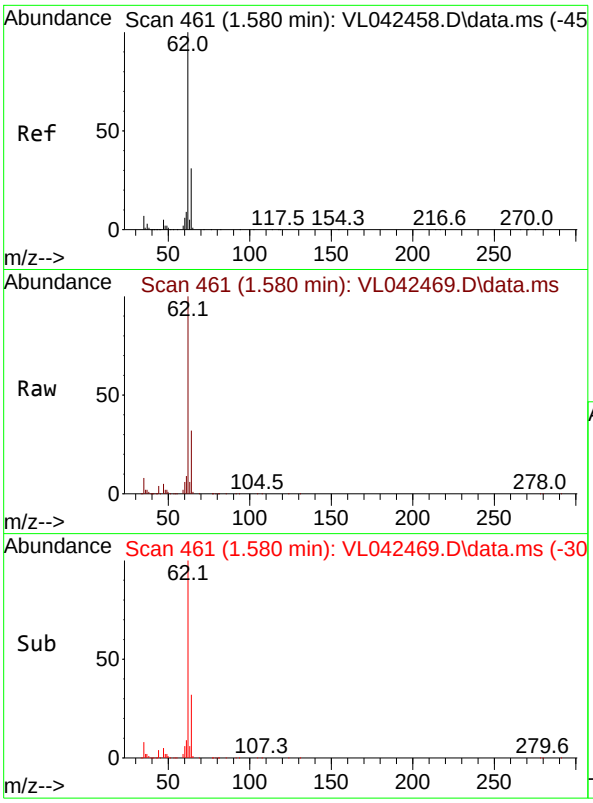


#4
Chloromethane
Concen: 9.579 ppbv
RT: 1.534 min Scan# 447
Delta R.T. 0.003 min
Lab File: VL042469.D
Acq: 05 May 2025 08:29

Tgt Ion: 50 Resp: 49599

Ion	Ratio	Lower	Upper
50	100		
52	33.7	23.5	35.3

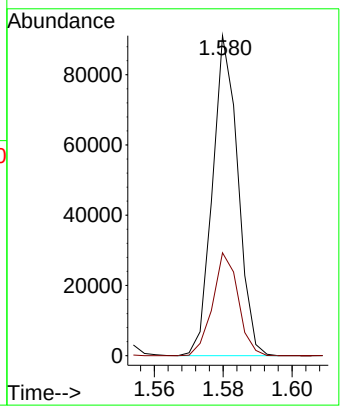




#5
Vinyl Chloride
Concen: 8.953 ppbv
RT: 1.580 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042469.D
Acq: 05 May 2025 08:29

Tgt Ion: 62 Resp: 4667

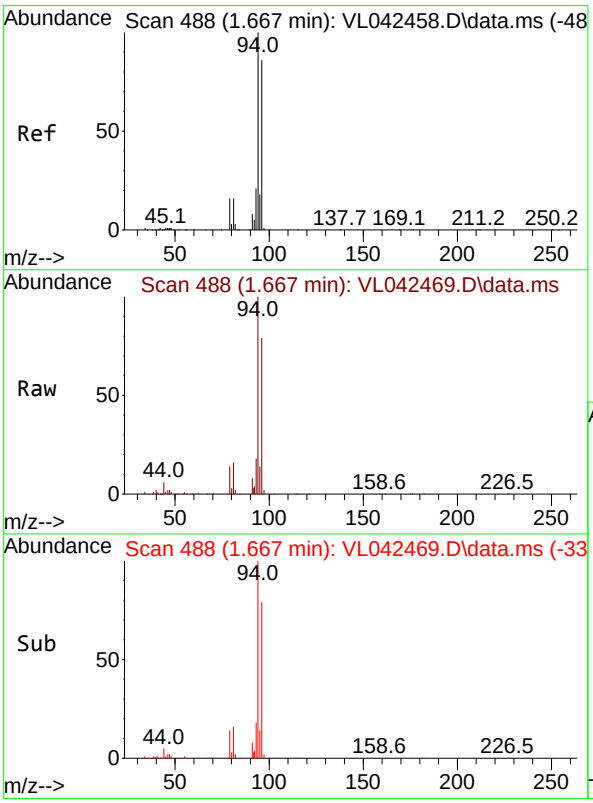
Ion	Ratio	Lower	Upper
62	100		
64	32.2	24.9	37.3



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

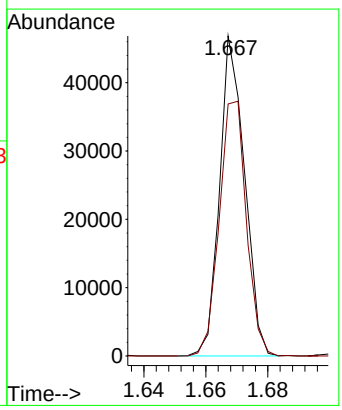
Reviewed By :Semsettin Yesilyurt 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

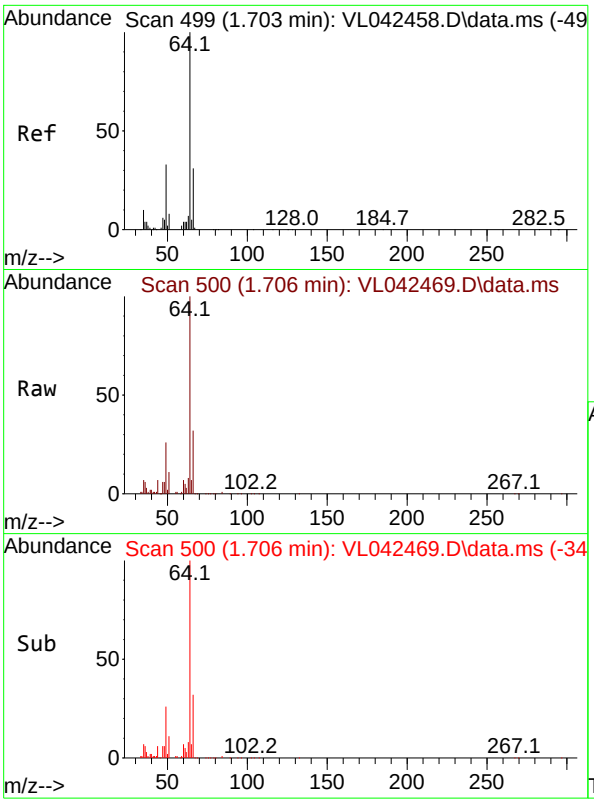


#6
Bromomethane
Concen: 10.651 ppbv
RT: 1.667 min Scan# 488
Delta R.T. 0.000 min
Lab File: VL042469.D
Acq: 05 May 2025 08:29

Tgt Ion: 94 Resp: 26234

Ion	Ratio	Lower	Upper
94	100		
96	78.7	68.8	103.2

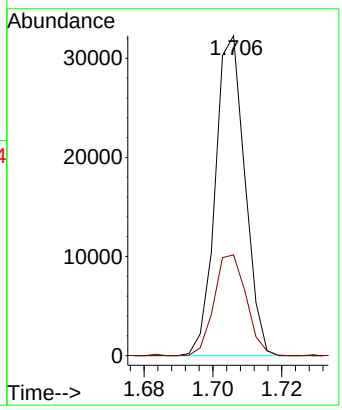




#7
Chloroethane
Concen: 10.032 ppbv
RT: 1.706 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042469.D
Acq: 05 May 2025 08:29

Tgt Ion: 64 Resp: 1931

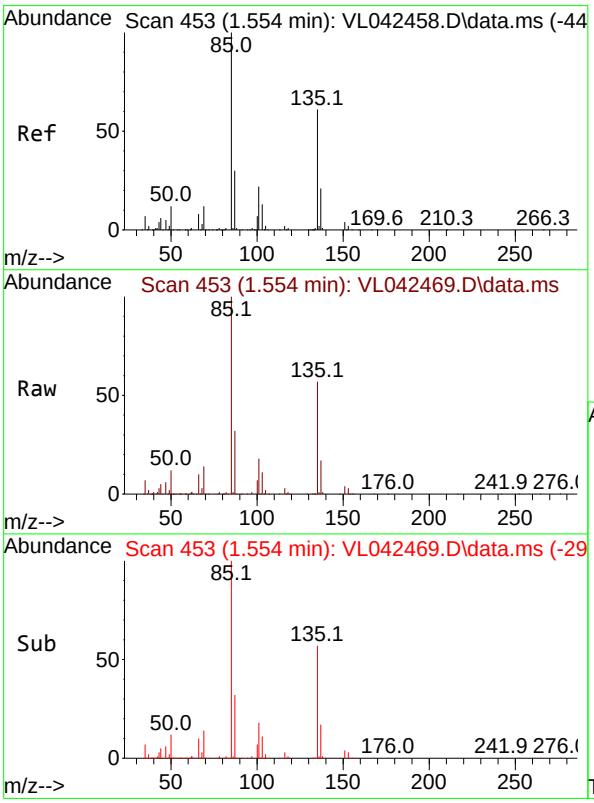
Ion	Ratio	Lower	Upper
64	100		
66	31.5	25.0	37.4



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

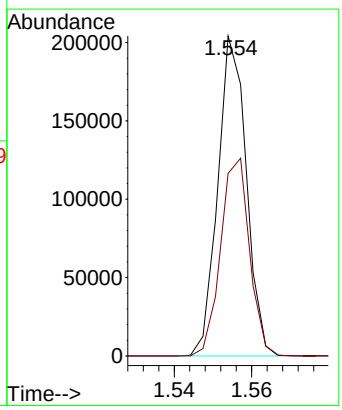
Reviewed By :Semsettin Yesilyurt 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

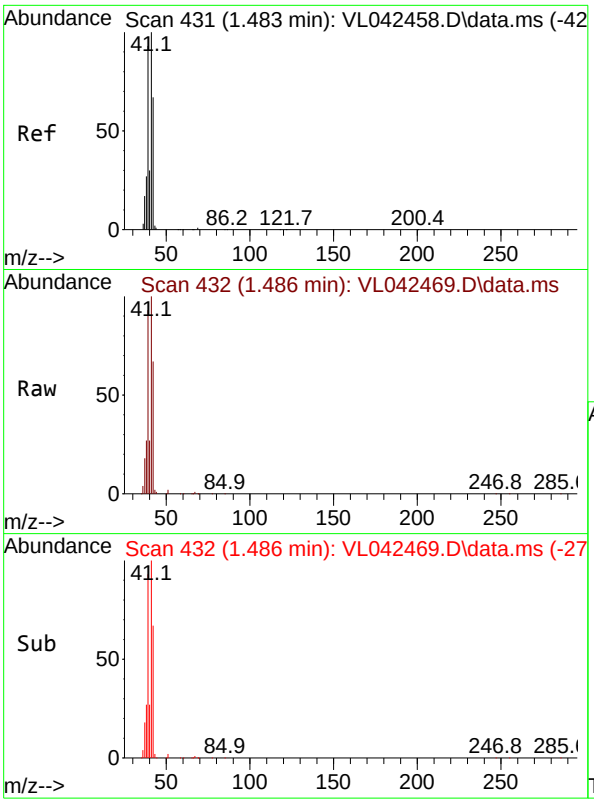


#8
Dichlorotetrafluoroethane
Concen: 10.214 ppbv
RT: 1.554 min Scan# 453
Delta R.T. 0.000 min
Lab File: VL042469.D
Acq: 05 May 2025 08:29

Tgt Ion: 85 Resp: 104312

Ion	Ratio	Lower	Upper
85	100		
135	62.7	49.8	74.8

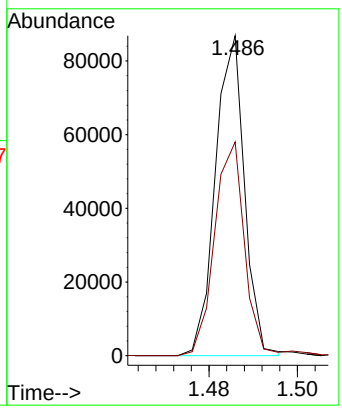




#9
Propene
Concen: 9.264 ppbv
RT: 1.486 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL042469.D
Acq: 05 May 2025 08:29

Tgt Ion: 41 Resp: 3968

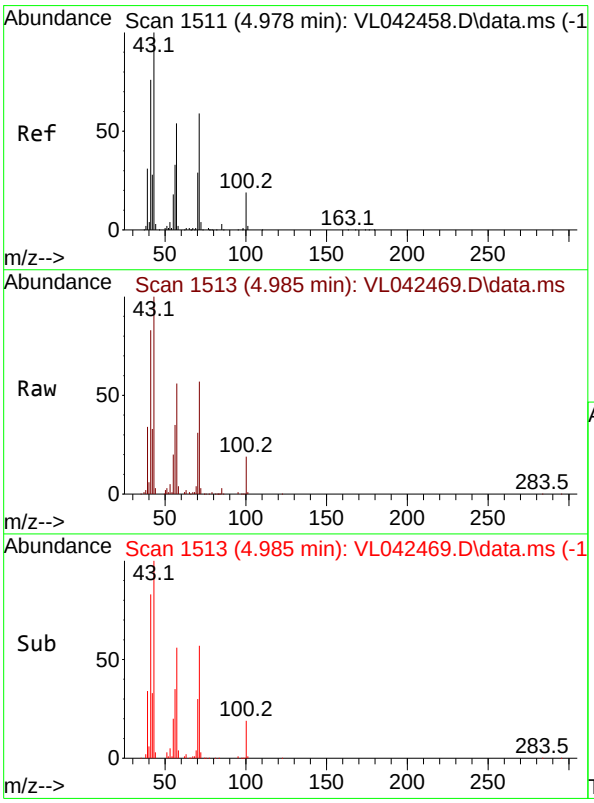
Ion	Ratio	Lower	Upper
41	100		
42	69.8	54.3	81.5



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

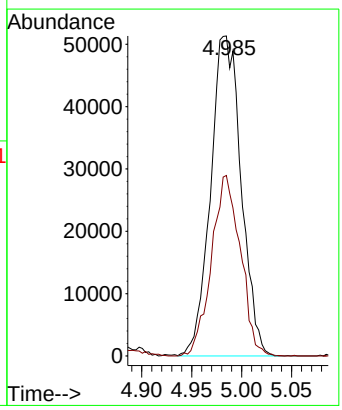
Reviewed By :Semsettin Yesilyurt 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

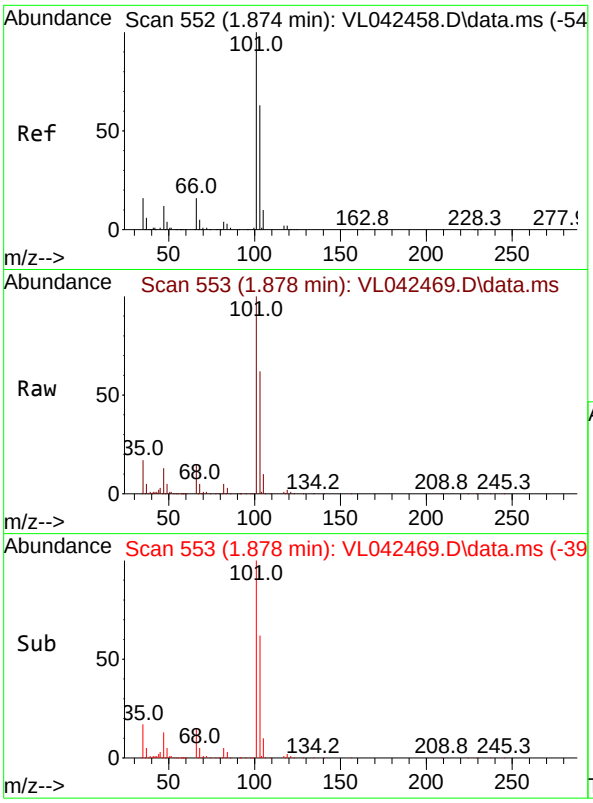


#10
Heptane
Concen: 9.854 ppbv
RT: 4.985 min Scan# 1513
Delta R.T. 0.007 min
Lab File: VL042469.D
Acq: 05 May 2025 08:29

Tgt Ion: 43 Resp: 109506

Ion	Ratio	Lower	Upper
43	100		
57	53.2	41.8	62.8

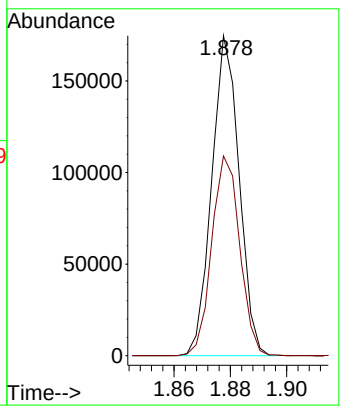




#11
Trichlorofluoromethane
Concen: 10.305 ppbv
RT: 1.878 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042469.D
Acq: 05 May 2025 08:29

Tgt Ion:101 Resp: 11780

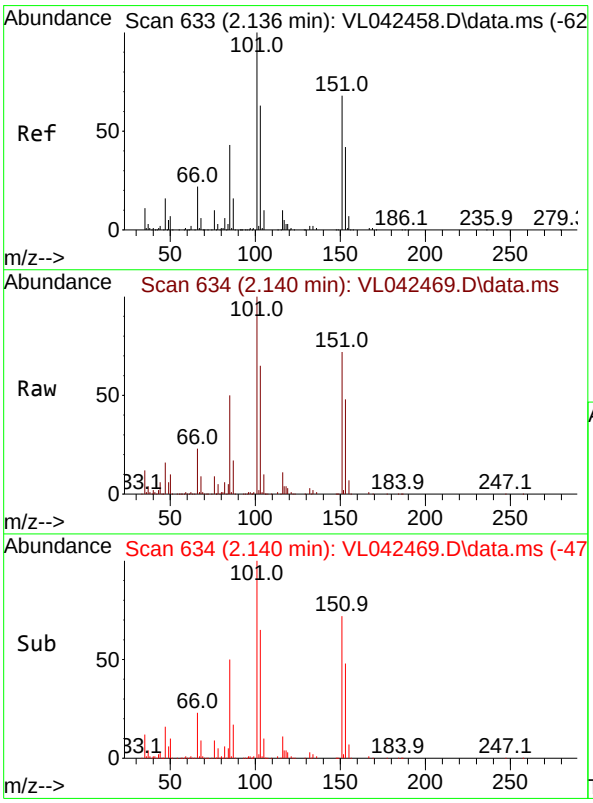
Ion	Ratio	Lower	Upper
101	100		
103	62.4	50.6	76.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

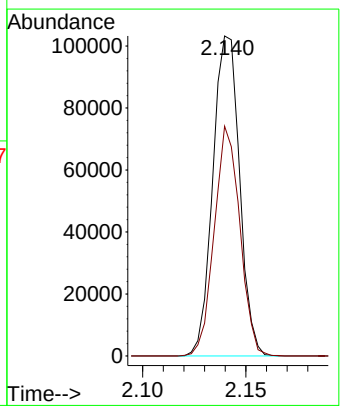
Reviewed By :Semsettin Yesilyurt 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

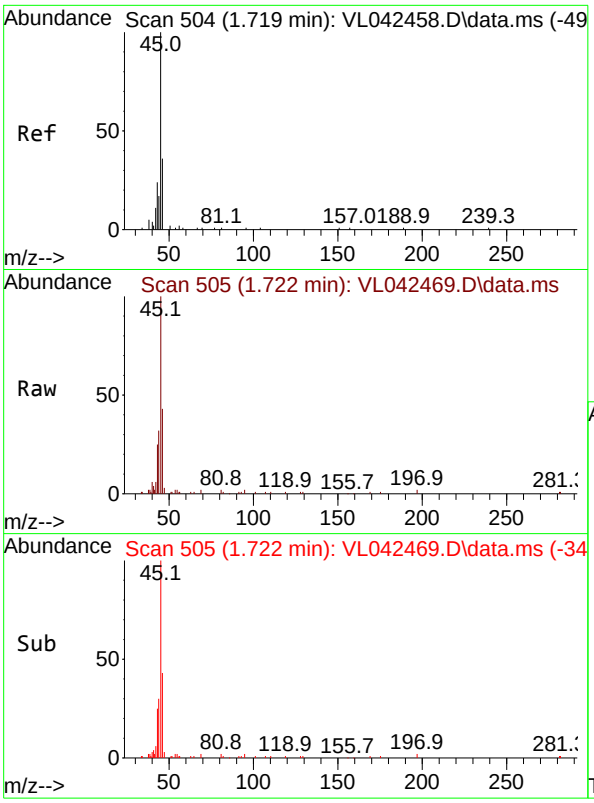


#12
1,1,2-Trichlorotrifluoroethane
Concen: 10.178 ppbv
RT: 2.140 min Scan# 634
Delta R.T. 0.003 min
Lab File: VL042469.D
Acq: 05 May 2025 08:29

Tgt Ion:101 Resp: 92903

Ion	Ratio	Lower	Upper
101	100		
151	68.7	54.6	82.0

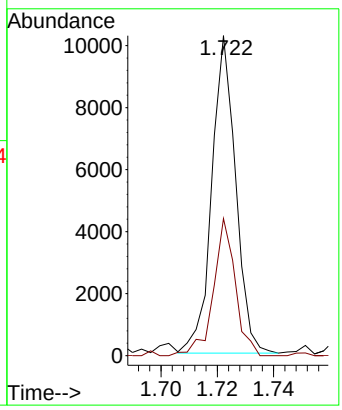




#13
Ethanol
Concen: 6.938 ppbv
RT: 1.722 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042469.D
Acq: 05 May 2025 08:29

Tgt Ion: 45 Resp: 603

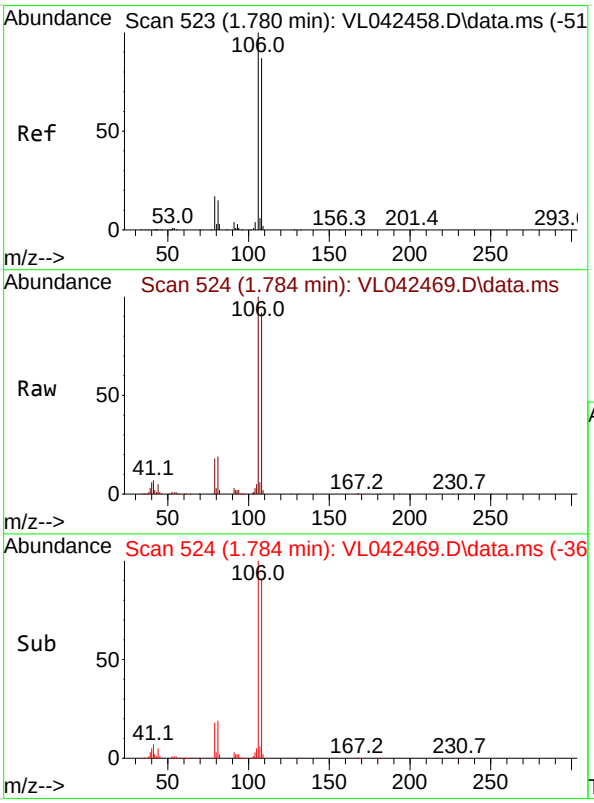
Ion	Ratio	Lower	Upper
45	100		
46	40.0	15.3	61.1



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

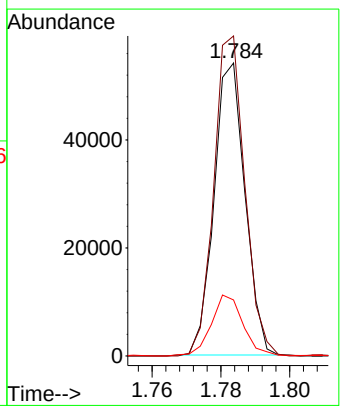
Reviewed By :Semsettin Yesilyurt 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

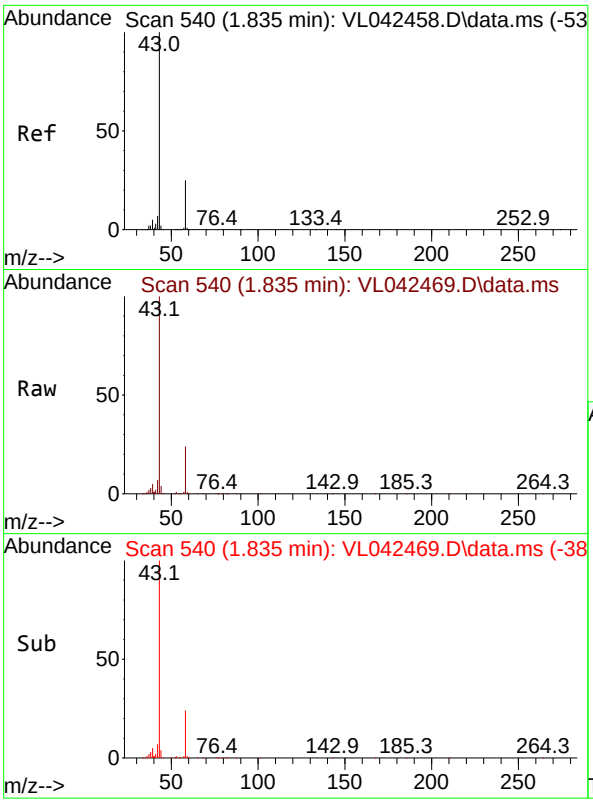


#14
Bromoethene
Concen: 10.053 ppbv
RT: 1.784 min Scan# 524
Delta R.T. 0.003 min
Lab File: VL042469.D
Acq: 05 May 2025 08:29

Tgt Ion:108 Resp: 33877

Ion	Ratio	Lower	Upper
108	100		
106	109.6	88.8	133.2
79	21.8	17.1	25.7

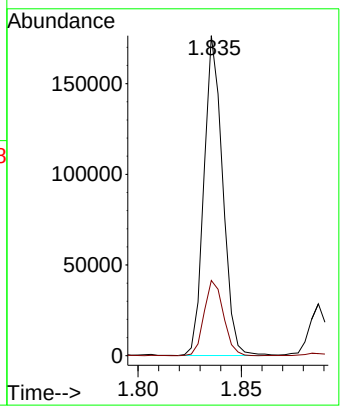




#15
Acetone
Concen: 8.120 ppbv
RT: 1.835 min Scan# 54
Delta R.T. 0.000 min
Lab File: VL042469.D
Acq: 05 May 2025 08:29

Tgt Ion: 43 Resp: 11096

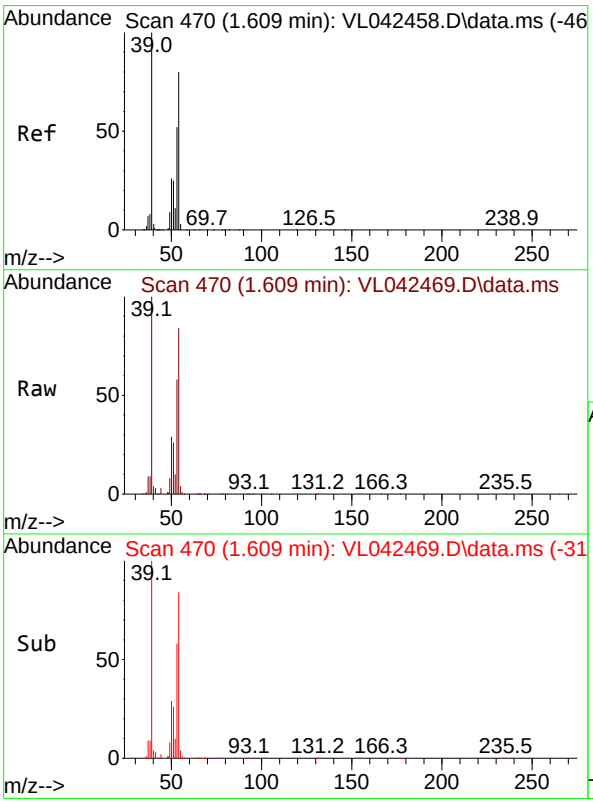
Ion	Ratio	Lower	Upper
43	100		
58	24.4	19.8	29.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

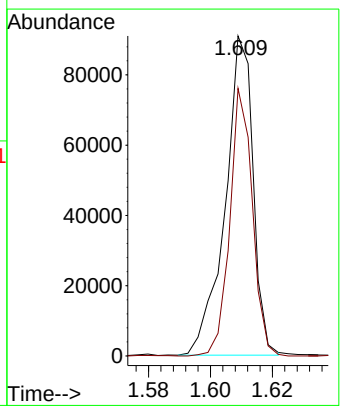
Reviewed By :Semsettin Yesilyurt 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

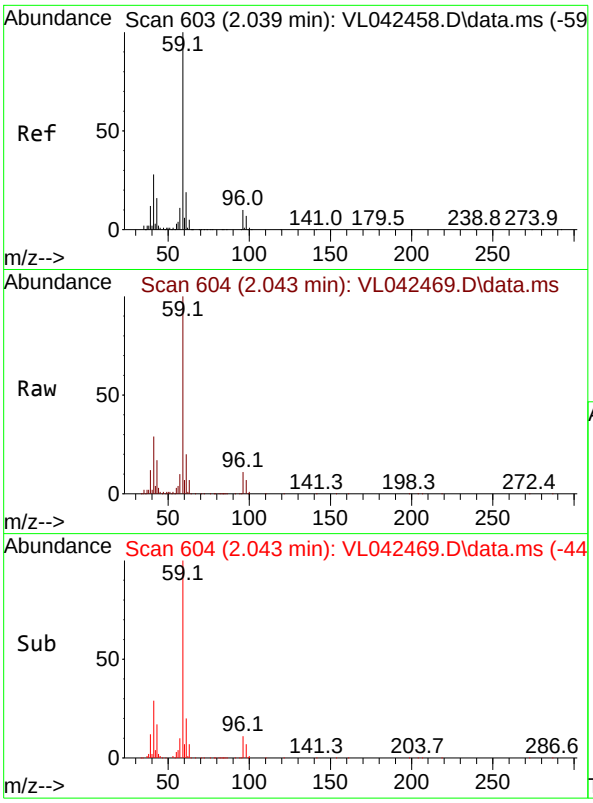


#16
1,3-Butadiene
Concen: 9.434 ppbv
RT: 1.609 min Scan# 470
Delta R.T. 0.000 min
Lab File: VL042469.D
Acq: 05 May 2025 08:29

Tgt Ion: 39 Resp: 56863

Ion	Ratio	Lower	Upper
39	100		
54	67.8	55.2	82.8

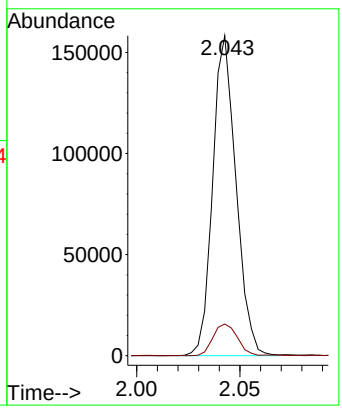




#17
tert-Butyl alcohol
Concen: 10.323 ppbv
RT: 2.043 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL042469.D
Acq: 05 May 2025 08:29

Tgt Ion: 59 Resp: 12428

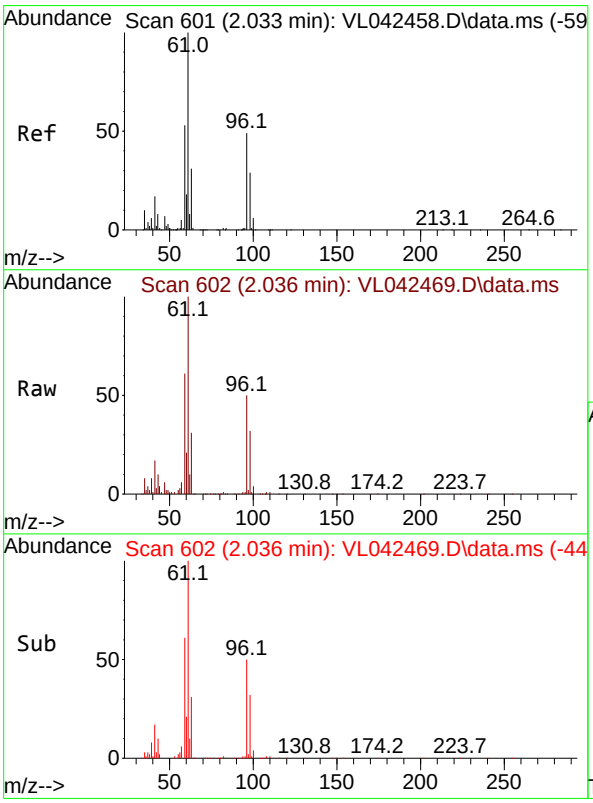
Ion	Ratio	Lower	Upper
59	100		
57	10.5	8.3	12.5



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

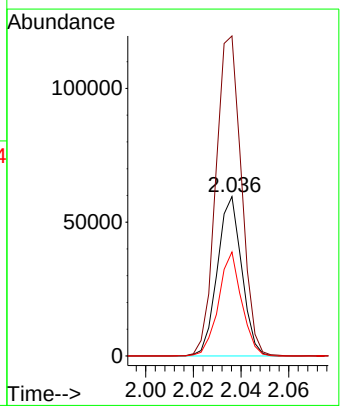
Reviewed By :Semsettin Yesilyurt 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

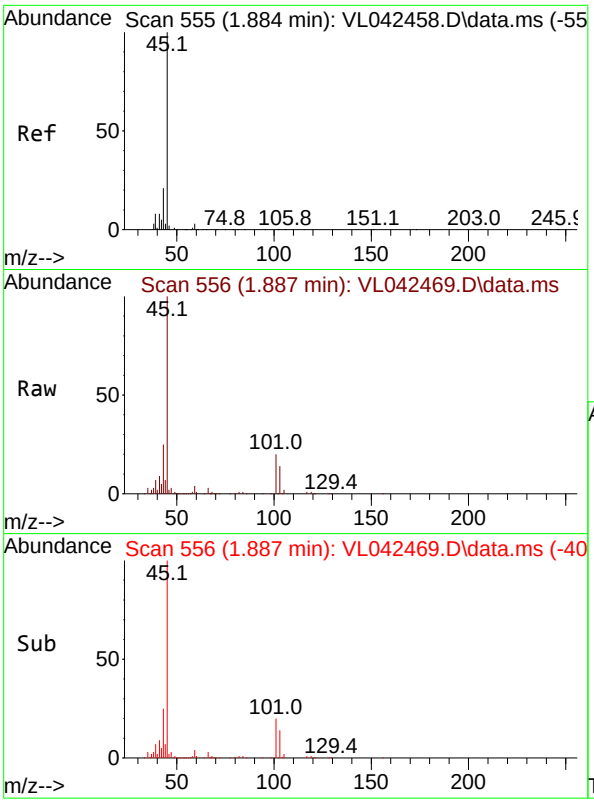


#18
1,1-Dichloroethene
Concen: 9.919 ppbv
RT: 2.036 min Scan# 602
Delta R.T. 0.003 min
Lab File: VL042469.D
Acq: 05 May 2025 08:29

Tgt Ion: 96 Resp: 42276

Ion	Ratio	Lower	Upper
96	100		
61	200.7	164.9	247.3
98	65.2	48.2	72.2

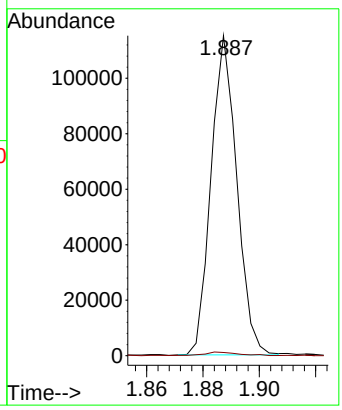




#19
Isopropyl Alcohol
Concen: 9.658 ppbv
RT: 1.887 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042469.D
Acq: 05 May 2025 08:29

Tgt Ion: 45 Resp: 7304

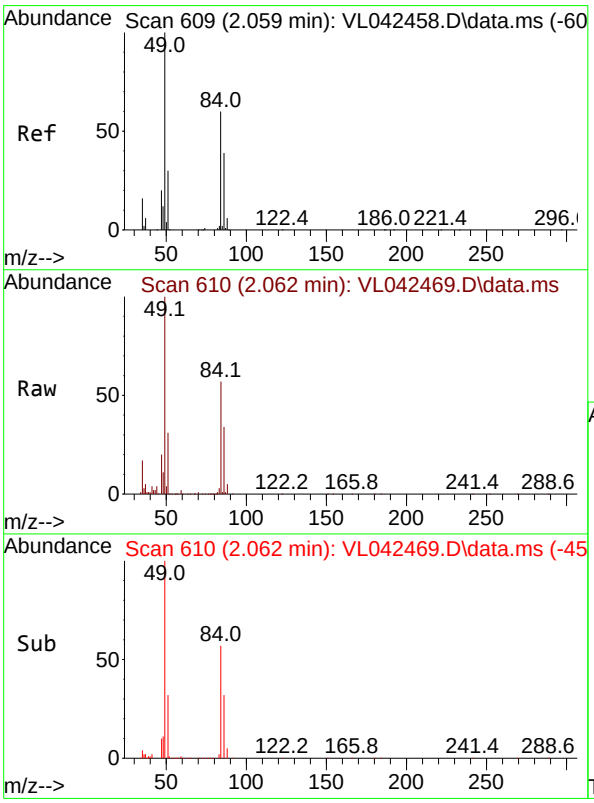
Ion	Ratio	Lower	Upper
45	100		
58	1.6	1.6	2.4



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

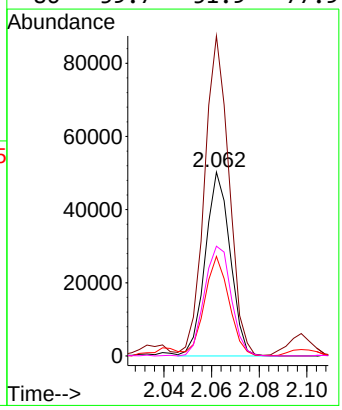
Reviewed By :Semsettin Yesilyurt 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

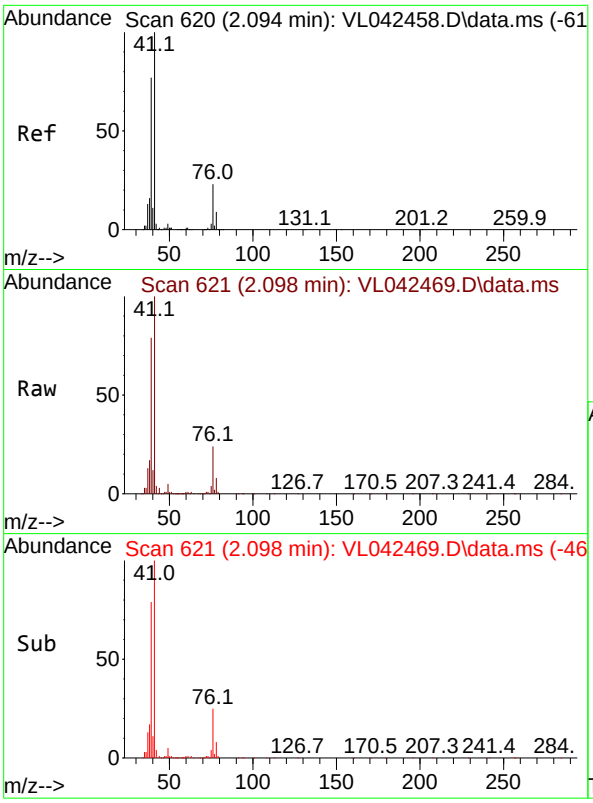


#20
Methylene Chloride
Concen: 8.845 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.003 min
Lab File: VL042469.D
Acq: 05 May 2025 08:29

Tgt Ion: 84 Resp: 36341

Ion	Ratio	Lower	Upper
84	100		
49	172.1	133.9	200.9
51	53.8	41.0	61.6
86	59.7	51.9	77.9

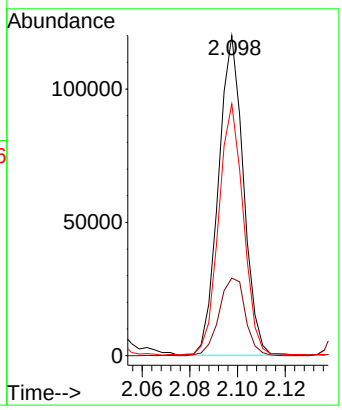




#21
Allyl Chloride
Concen: 9.922 ppbv
RT: 2.098 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL042469.D
Acq: 05 May 2025 08:29

Tgt Ion: 41 Resp: 8720

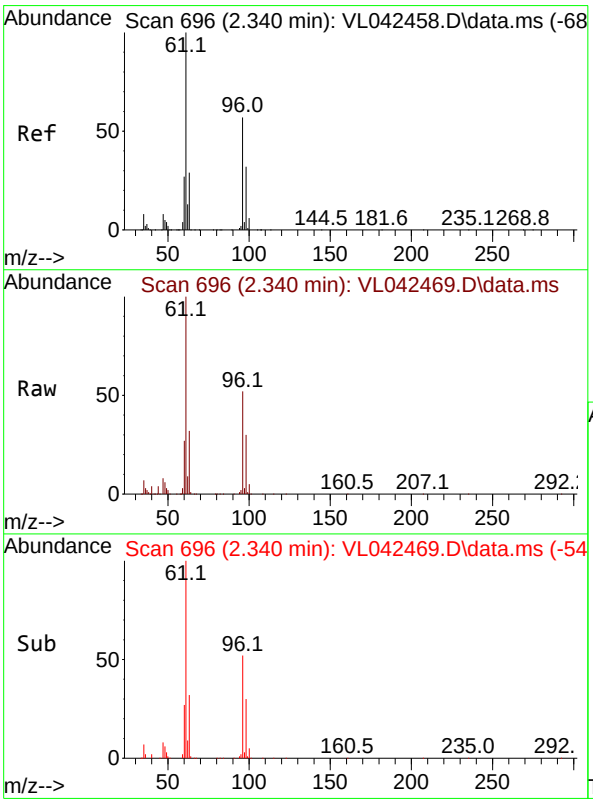
Ion	Ratio	Lower	Upper
41	100		
76	25.7	19.6	29.4
39	77.6	61.0	91.4



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

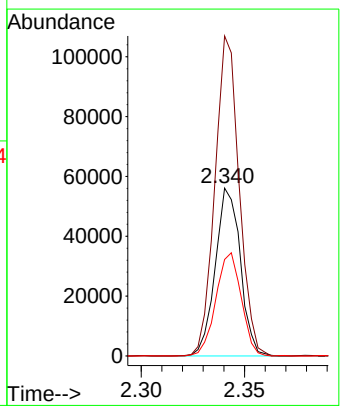
Reviewed By :Semsettin Yesilyurt 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

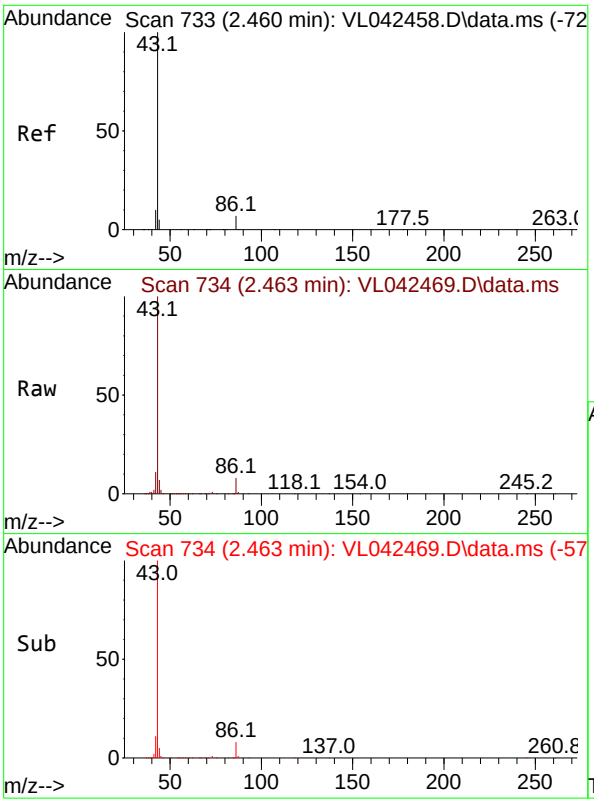


#22
trans-1,2-Dichloroethene
Concen: 9.474 ppbv
RT: 2.340 min Scan# 696
Delta R.T. 0.000 min
Lab File: VL042469.D
Acq: 05 May 2025 08:29

Tgt Ion: 96 Resp: 47159

Ion	Ratio	Lower	Upper
96	100		
61	190.7	141.8	212.6
98	57.5	45.0	67.6

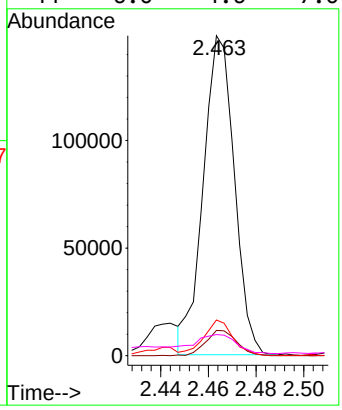




#23
Vinyl Acetate
Concen: 10.305 ppbv
RT: 2.463 min Scan# 7
Delta R.T. 0.003 min
Lab File: VL042469.D
Acq: 05 May 2025 08:29

Tgt Ion: 43 Resp: 13440

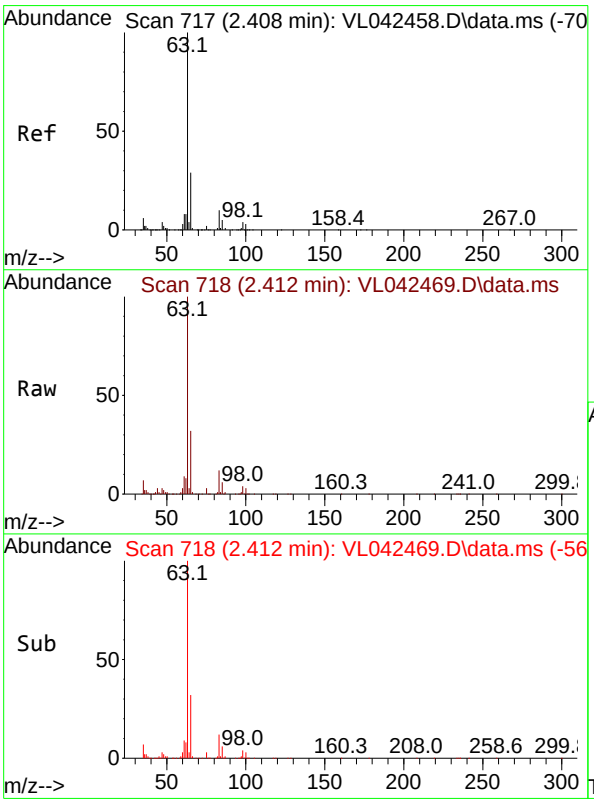
Ion	Ratio	Lower	Upper
43	100		
86	7.9	5.5	8.3
42	11.0	8.3	12.5
44	6.0	4.6	7.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

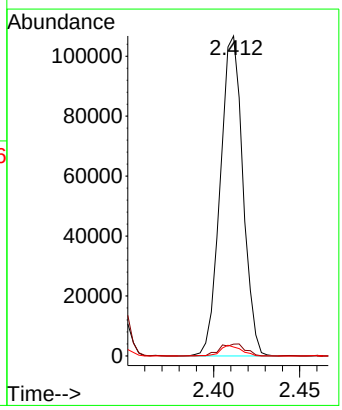
Reviewed By :Semsettin Yesilyurt 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

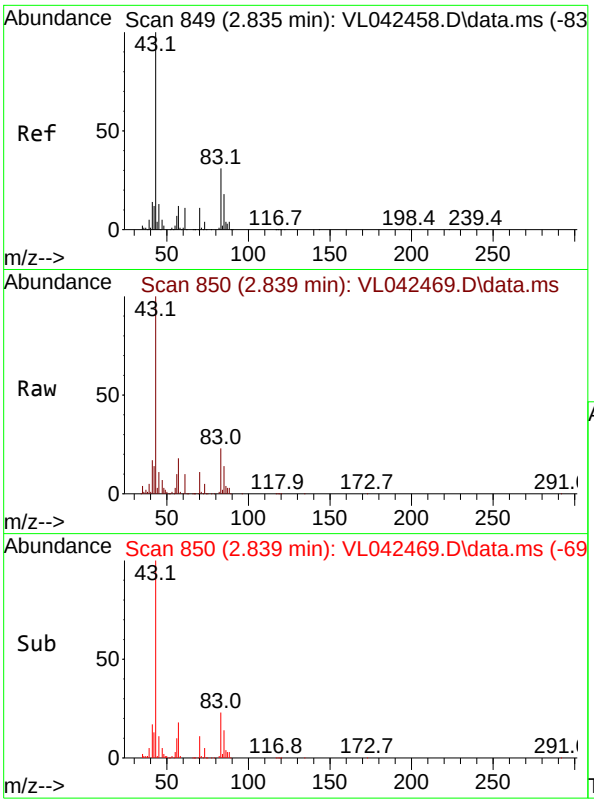


#24
1,1-Dichloroethane
Concen: 9.619 ppbv
RT: 2.412 min Scan# 718
Delta R.T. 0.003 min
Lab File: VL042469.D
Acq: 05 May 2025 08:29

Tgt Ion: 63 Resp: 97677

Ion	Ratio	Lower	Upper
63	100		
98	3.7	1.8	5.5
100	2.8	1.4	4.2

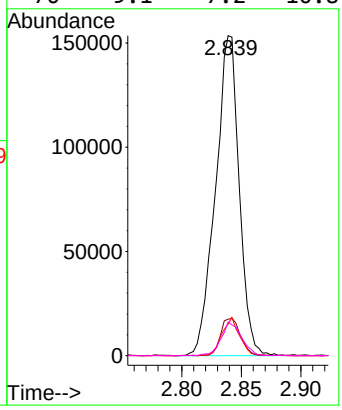




#25
Ethyl Acetate
Concen: 9.697 ppbv
RT: 2.839 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042469.D
Acq: 05 May 2025 08:29

Tgt Ion: 43 Resp: 21217

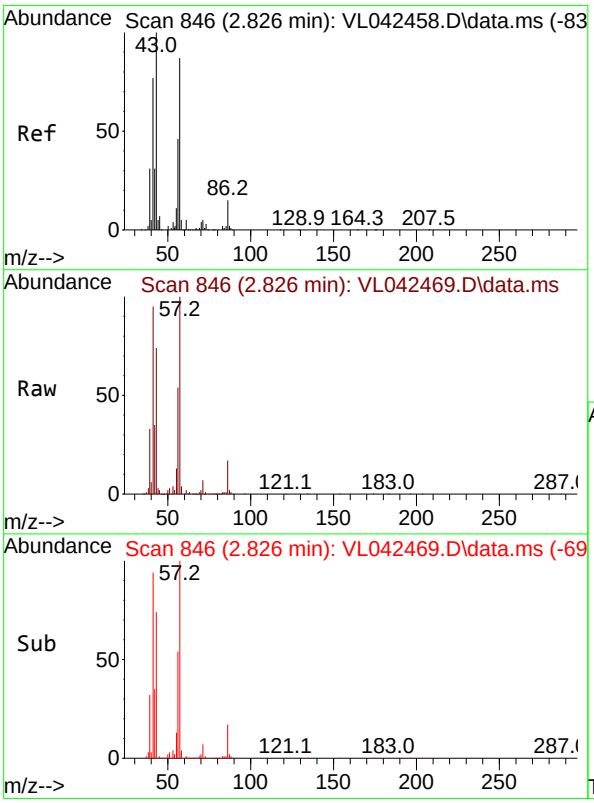
Ion	Ratio	Lower	Upper
43	100		
45	9.9	7.8	11.6
61	8.9	7.2	10.8
70	9.1	7.2	10.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

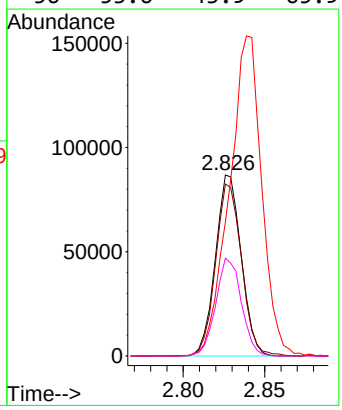
Reviewed By :Semsettin Yesilyurt 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

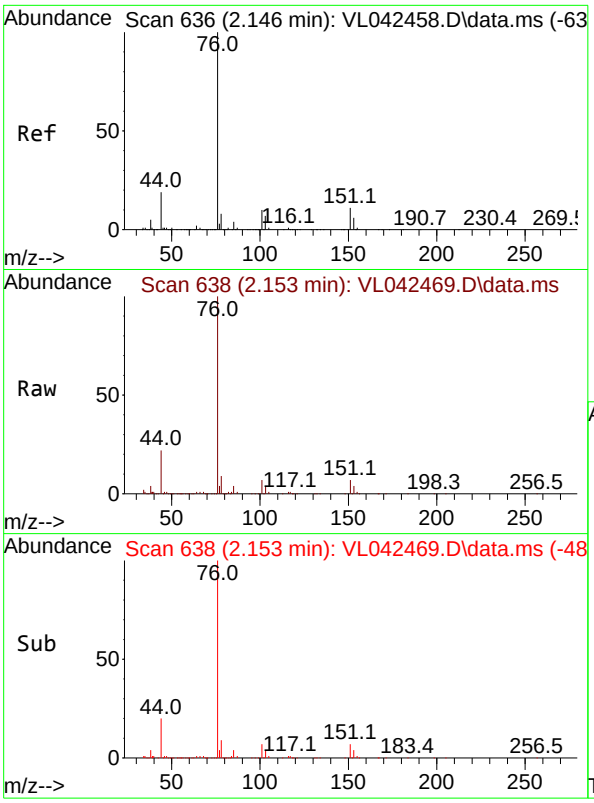


#26
Hexane
Concen: 9.996 ppbv
RT: 2.826 min Scan# 846
Delta R.T. 0.000 min
Lab File: VL042469.D
Acq: 05 May 2025 08:29

Tgt Ion: 57 Resp: 95290

Ion	Ratio	Lower	Upper
57	100		
41	95.9	77.8	116.8
43	222.9	187.0	280.6
56	53.6	43.9	65.9

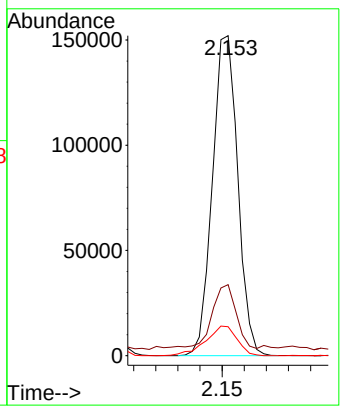




#27
Carbon Disulfide
Concen: 10.867 ppbv
RT: 2.153 min Scan# 6
Delta R.T. 0.007 min
Lab File: VL042469.D
Acq: 05 May 2025 08:29

Tgt Ion: 76 Resp: 12089

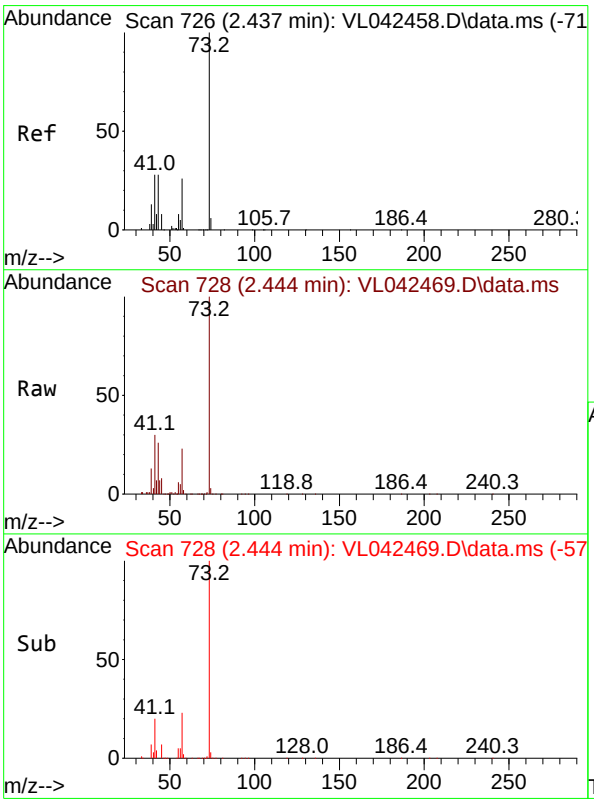
Ion	Ratio	Lower	Upper
76	100		
44	20.8	21.0	31.6
78	11.4	8.6	13.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

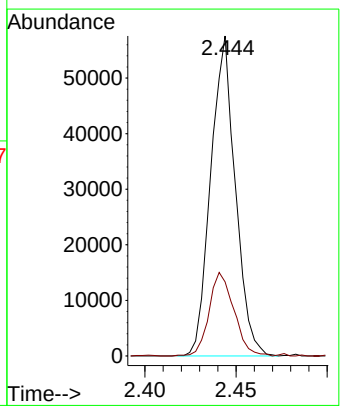
Reviewed By :Semsettin Yesilyurt 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

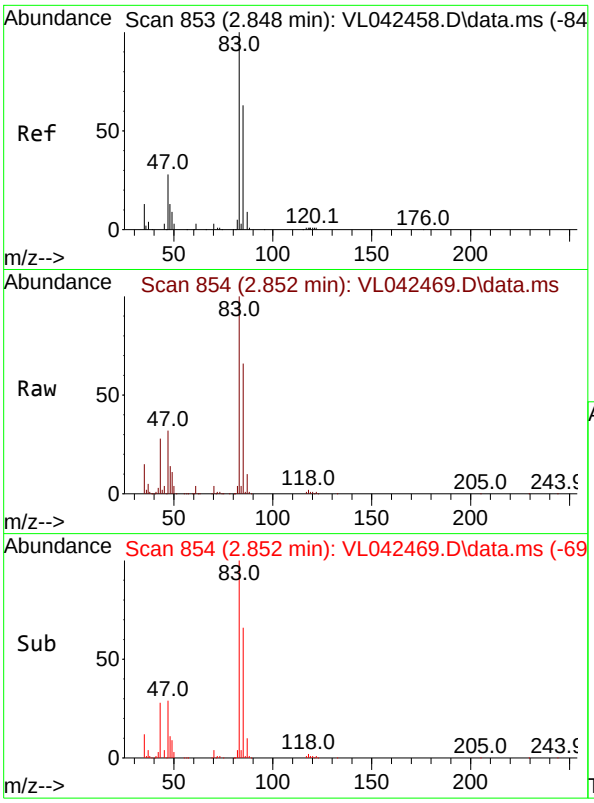


#28
Methyl tert-Butyl Ether
Concen: 9.432 ppbv
RT: 2.444 min Scan# 728
Delta R.T. 0.007 min
Lab File: VL042469.D
Acq: 05 May 2025 08:29

Tgt Ion: 73 Resp: 54017

Ion	Ratio	Lower	Upper
73	100		
57	26.8	19.9	29.9

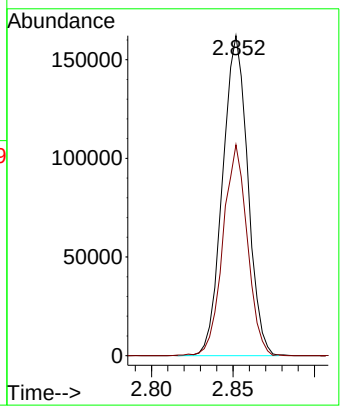




#29
Chloroform
Concen: 9.738 ppbv
RT: 2.852 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042469.D
Acq: 05 May 2025 08:29

Tgt Ion: 83 Resp: 17395

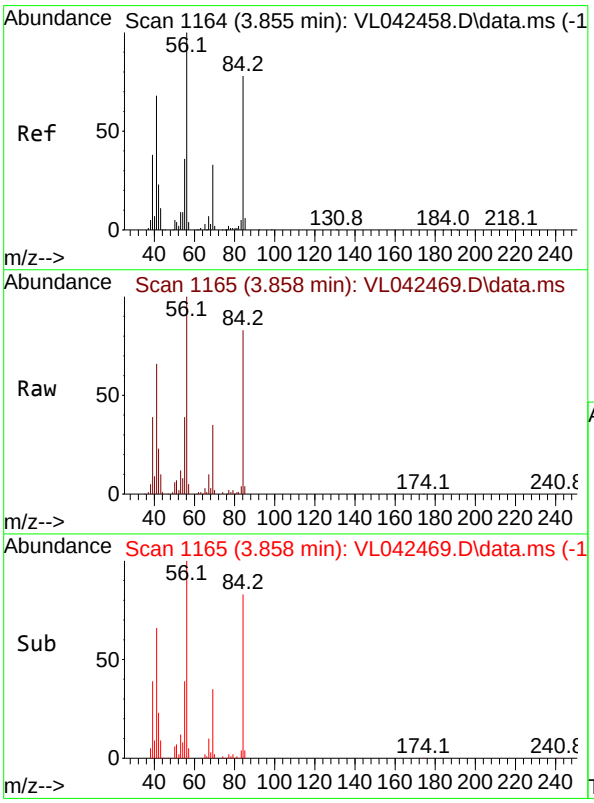
Ion	Ratio	Lower	Upper
83	100		
85	65.7	50.4	75.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

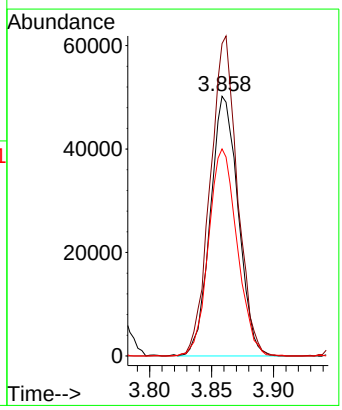
Reviewed By :Semsettin Yesilyurt 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

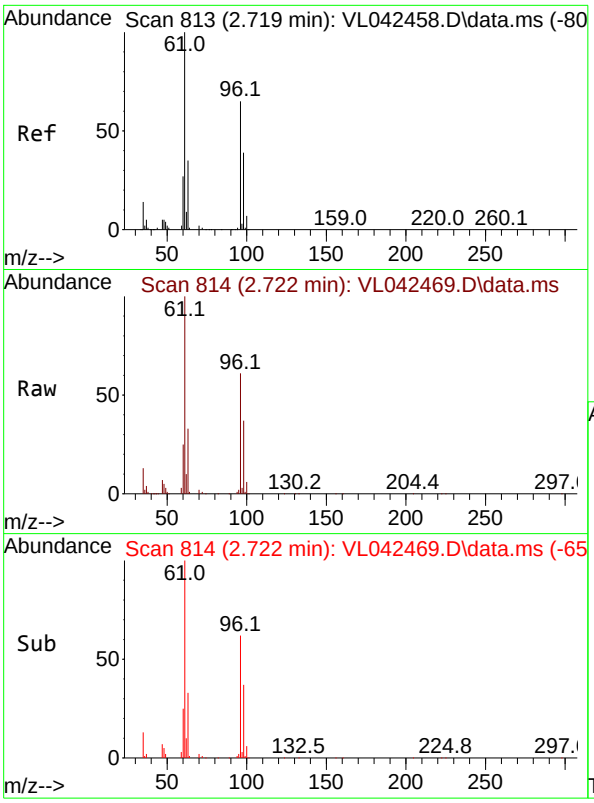


#30
Cyclohexane
Concen: 9.871 ppbv
RT: 3.858 min Scan# 1165
Delta R.T. 0.003 min
Lab File: VL042469.D
Acq: 05 May 2025 08:29

Tgt Ion: 84 Resp: 78668

Ion	Ratio	Lower	Upper
84	100		
56	120.2	98.1	147.1
41	81.7	65.8	98.8

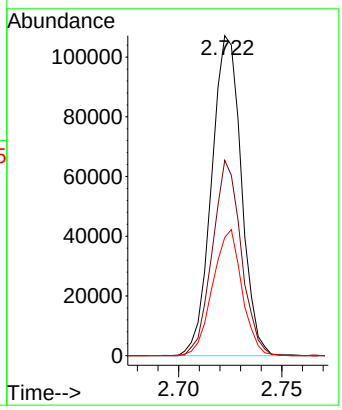




#31
cis-1,2-Dichloroethene
Concen: 9.659 ppbv
RT: 2.722 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042469.D
Acq: 05 May 2025 08:29

Tgt Ion: 61 Resp: 10742

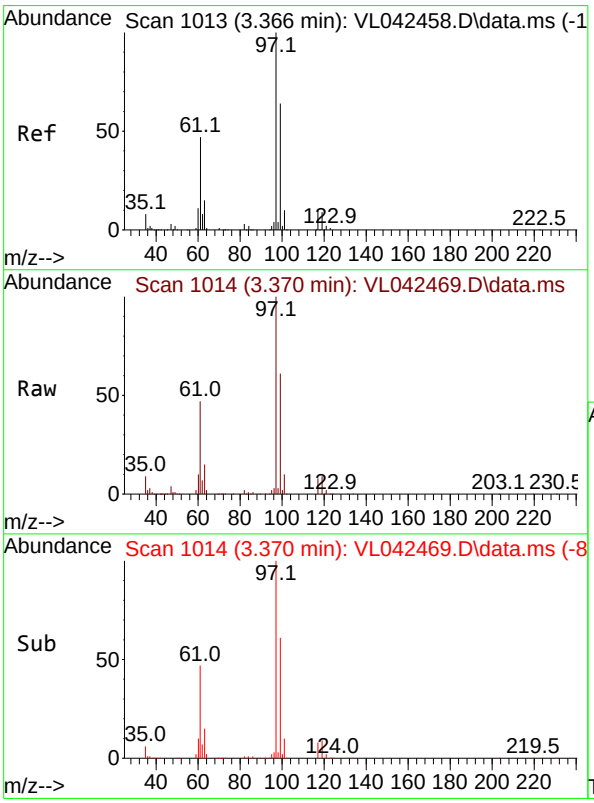
Ion	Ratio	Lower	Upper
61	100		
96	60.9	52.0	78.0
98	37.0	31.0	46.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

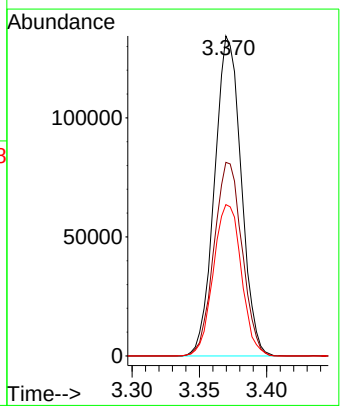
Reviewed By :Semsettin Yesilyurt 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

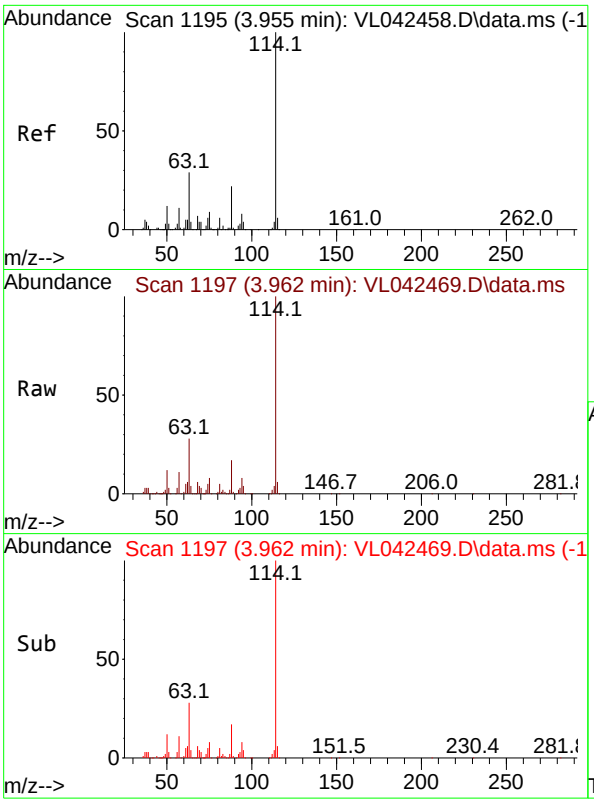


#32
1,1,1-Trichloroethane
Concen: 9.540 ppbv
RT: 3.370 min Scan# 1014
Delta R.T. 0.003 min
Lab File: VL042469.D
Acq: 05 May 2025 08:29

Tgt Ion: 97 Resp: 184899

Ion	Ratio	Lower	Upper
97	100		
99	63.7	50.7	76.1
61	49.8	40.9	61.3

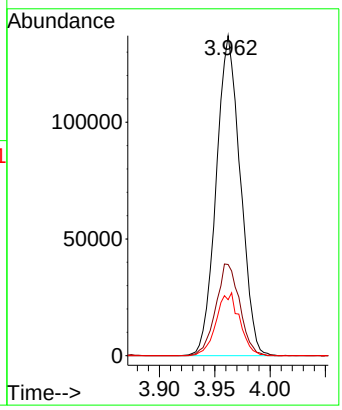




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.962 min Scan# 1
Delta R.T. 0.007 min
Lab File: VL042469.D
Acq: 05 May 2025 08:29

Tgt Ion:114 Resp: 20785

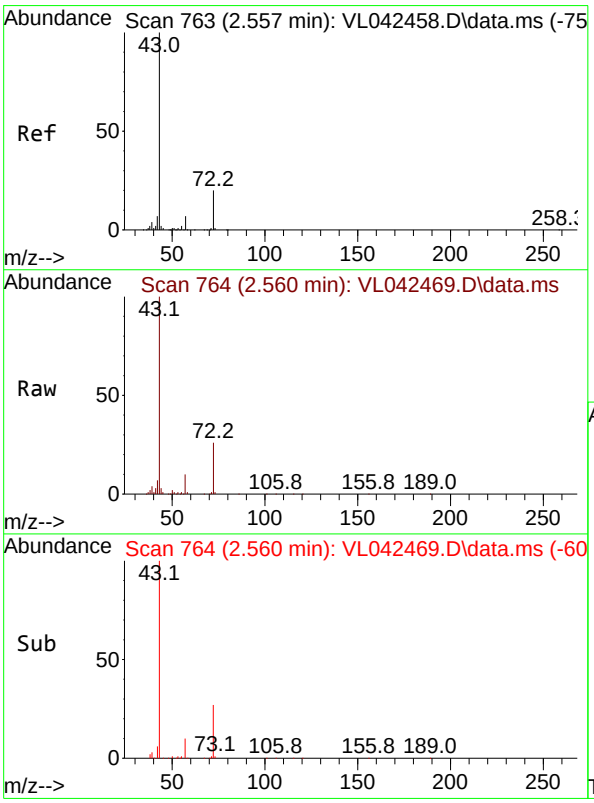
Ion	Ratio	Lower	Upper
114	100		
63	28.5	23.1	34.7
88	19.2	16.1	24.1



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

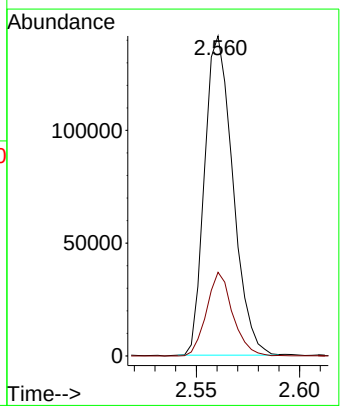
Reviewed By :Semsettin Yesilyurt 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

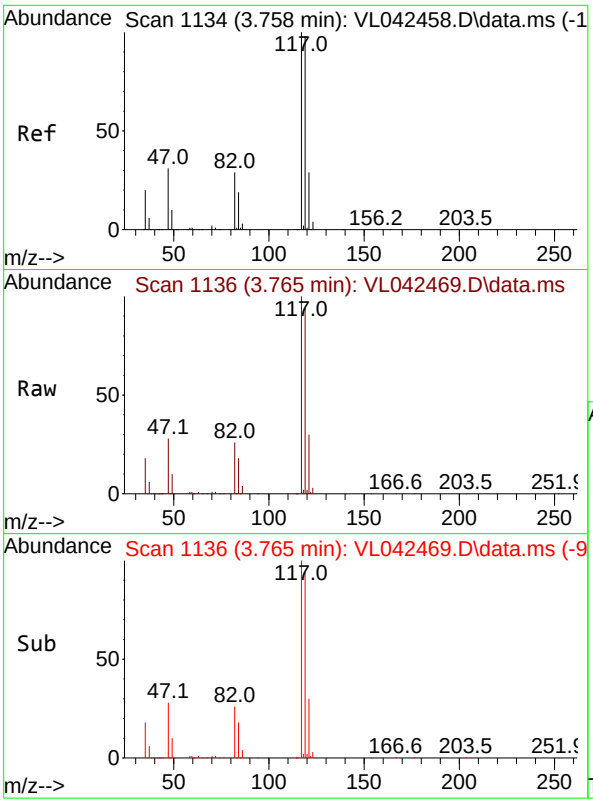


#34
2-Butanone
Concen: 8.967 ppbv
RT: 2.560 min Scan# 764
Delta R.T. 0.003 min
Lab File: VL042469.D
Acq: 05 May 2025 08:29

Tgt Ion: 43 Resp: 134813

Ion	Ratio	Lower	Upper
43	100		
72	24.2	16.7	25.1

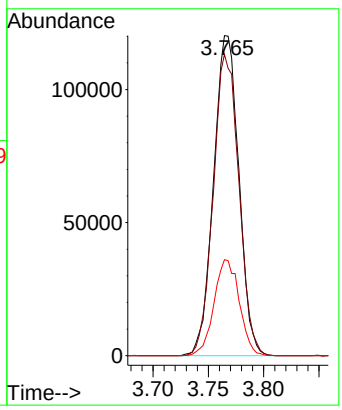




#35
Carbon Tetrachloride
Concen: 10.120 ppbv
RT: 3.765 min Scan# 1
Delta R.T. 0.007 min
Lab File: VL042469.D
Acq: 05 May 2025 08:29

Tgt Ion:117 Resp: 19109

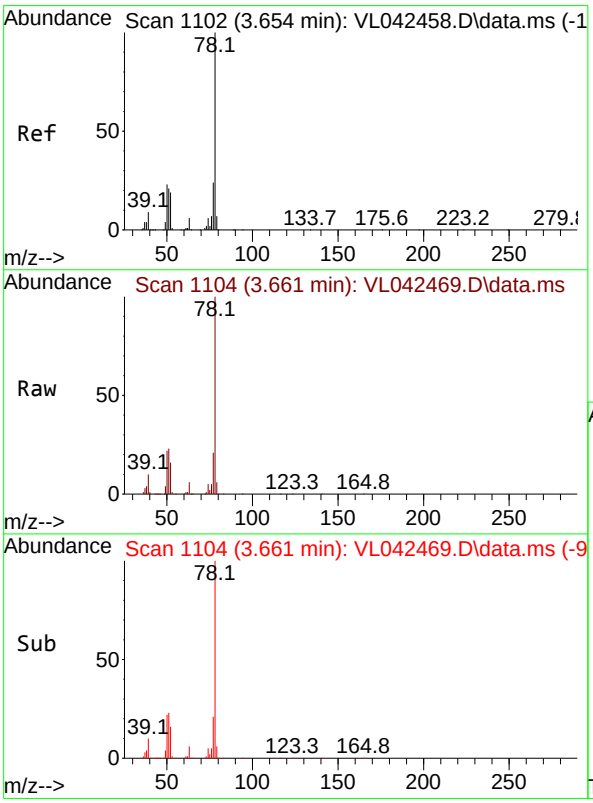
Ion	Ratio	Lower	Upper
117	100		
119	94.2	78.1	117.1
121	30.0	23.0	34.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

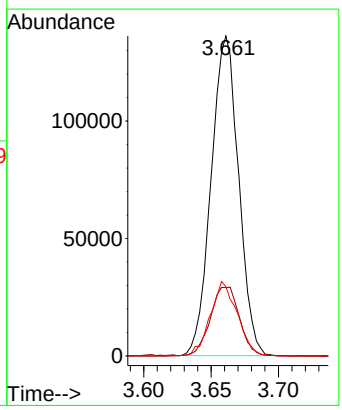
Reviewed By :Semsettin Yesilyurt 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

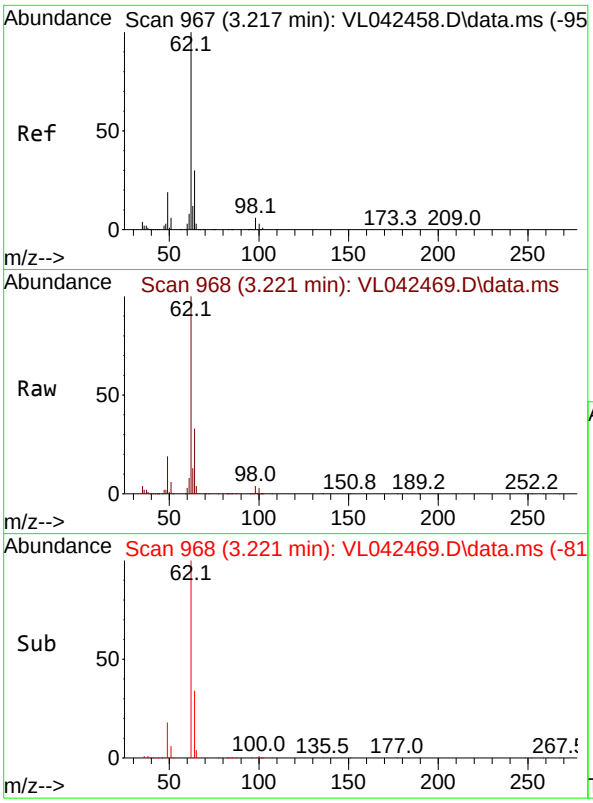


#36
Benzene
Concen: 9.838 ppbv
RT: 3.661 min Scan# 1104
Delta R.T. 0.007 min
Lab File: VL042469.D
Acq: 05 May 2025 08:29

Tgt Ion: 78 Resp: 192975

Ion	Ratio	Lower	Upper
78	100		
77	21.3	18.9	28.3
50	21.7	18.4	27.6

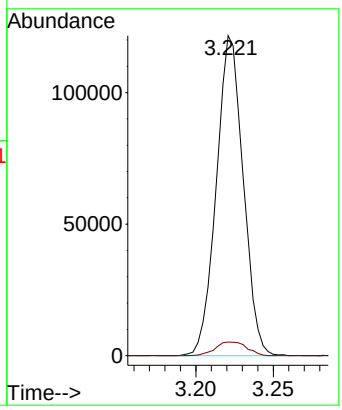




#37
1,2-Dichloroethane
Concen: 9.710 ppbv
RT: 3.221 min Scan# 9
Delta R.T. 0.003 min
Lab File: VL042469.D
Acq: 05 May 2025 08:29

Tgt Ion: 62 Resp: 14679

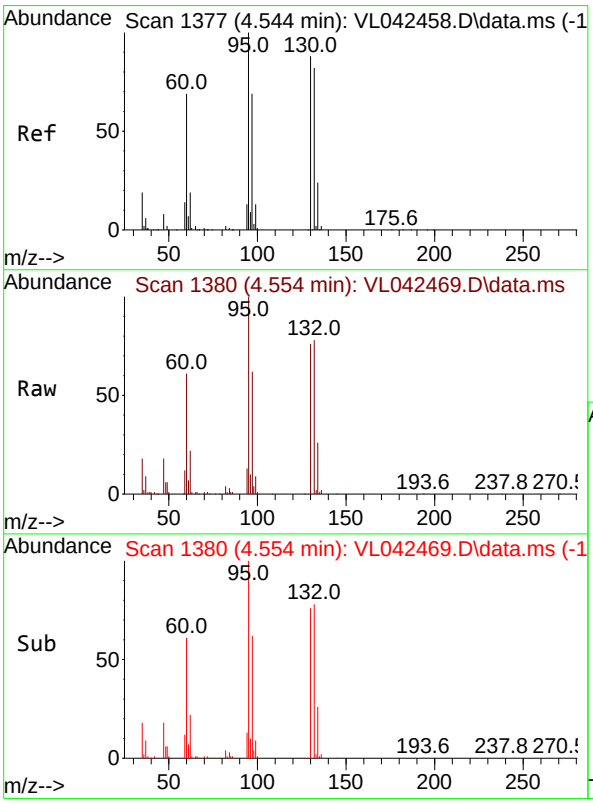
Ion	Ratio	Lower	Upper
62	100		
98	5.0	4.3	6.5



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

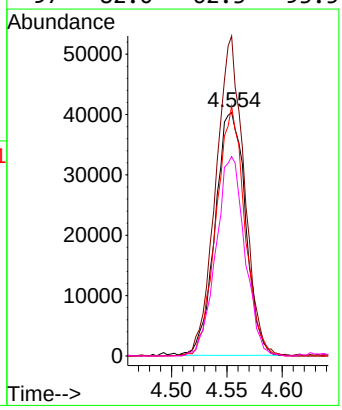
Reviewed By :Semsettin Yesilyurt 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

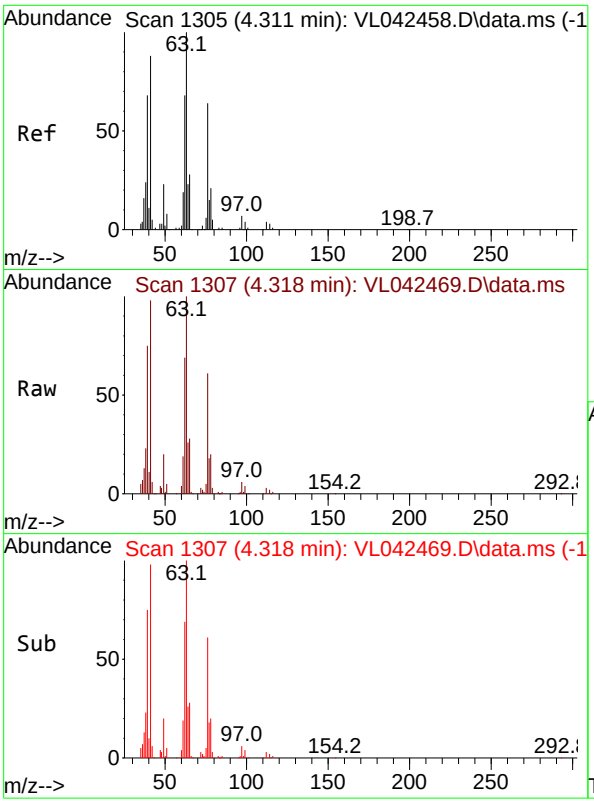


#38
Trichloroethene
Concen: 10.264 ppbv
RT: 4.554 min Scan# 1380
Delta R.T. 0.010 min
Lab File: VL042469.D
Acq: 05 May 2025 08:29

Tgt Ion:130 Resp: 76779

Ion	Ratio	Lower	Upper
130	100		
95	131.4	91.0	136.4
132	102.6	74.2	111.4
97	82.0	62.3	93.5

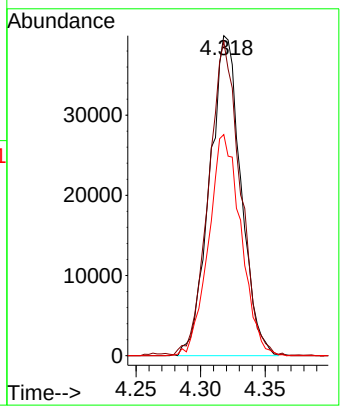




#39
1,2-Dichloropropane
Concen: 9.181 ppbv
RT: 4.318 min Scan# 1
Delta R.T. 0.007 min
Lab File: VL042469.D
Acq: 05 May 2025 08:29

Tgt Ion: 63 Resp: 6742

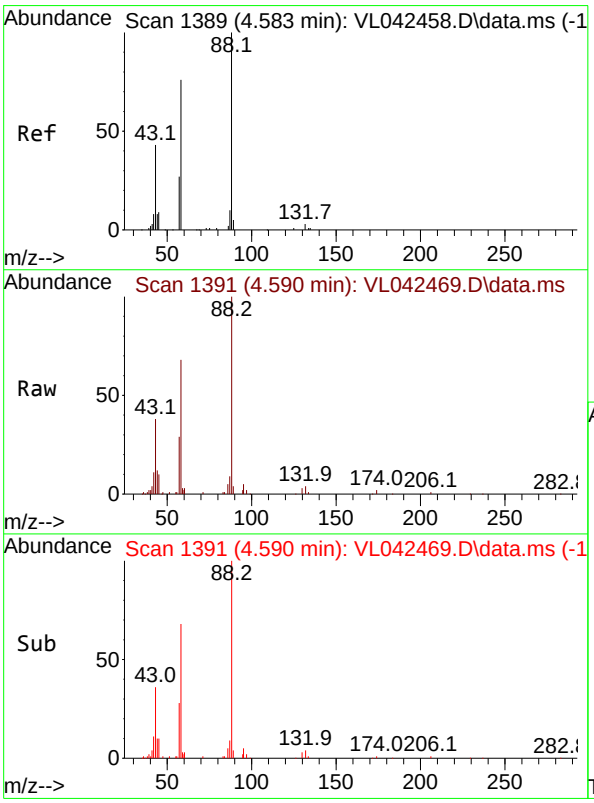
Ion	Ratio	Lower	Upper
63	100		
41	97.7	69.8	104.6
62	68.9	54.3	81.5



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

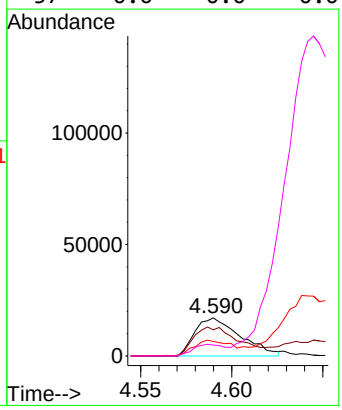
Reviewed By :Semsettin Yesilyurt 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

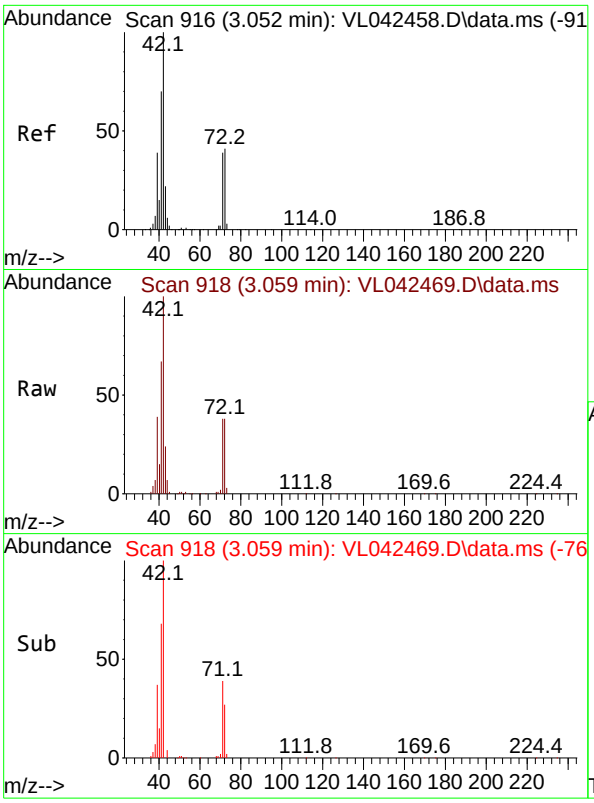


#40
1,4-Dioxane
Concen: 8.622 ppbv
RT: 4.590 min Scan# 1391
Delta R.T. 0.007 min
Lab File: VL042469.D
Acq: 05 May 2025 08:29

Tgt Ion: 88 Resp: 29648

Ion	Ratio	Lower	Upper
88	100		
58	74.1	0.0	0.0#
43	35.3	0.0	0.0#
57	0.0	0.0	0.0

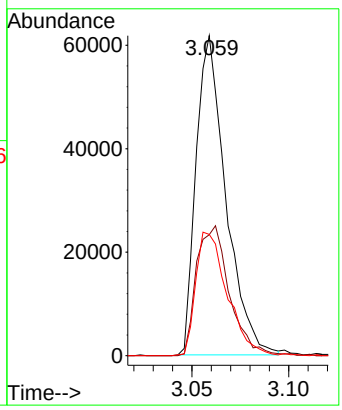




#41
Tetrahydrofuran
Concen: 9.263 ppbv
RT: 3.059 min Scan# 9
Delta R.T. 0.007 min
Lab File: VL042469.D
Acq: 05 May 2025 08:29

Tgt Ion: 42 Resp: 6618

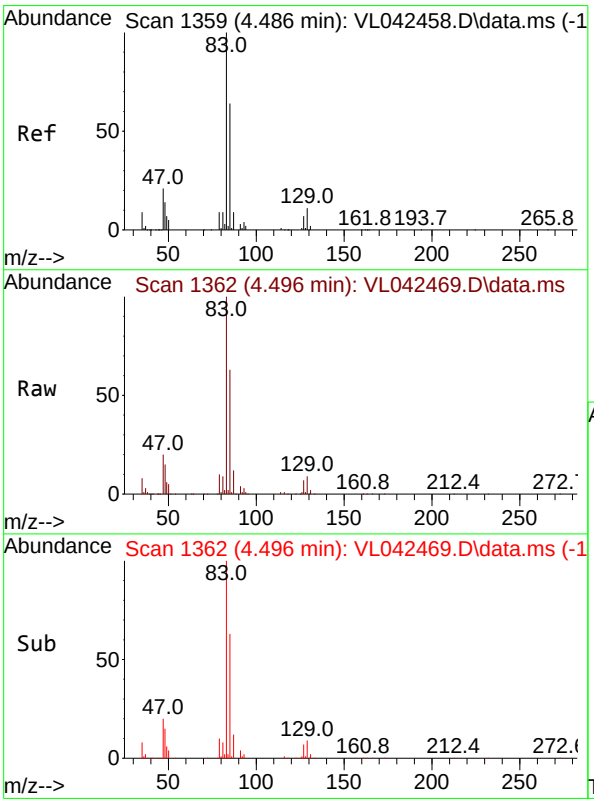
Ion	Ratio	Lower	Upper
42	100		
72	45.0	33.5	50.3
71	41.1	32.6	49.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

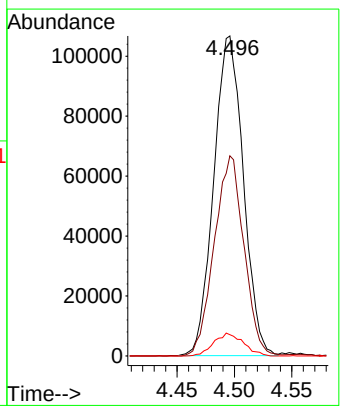
Reviewed By :Semsettin Yesilyurt 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

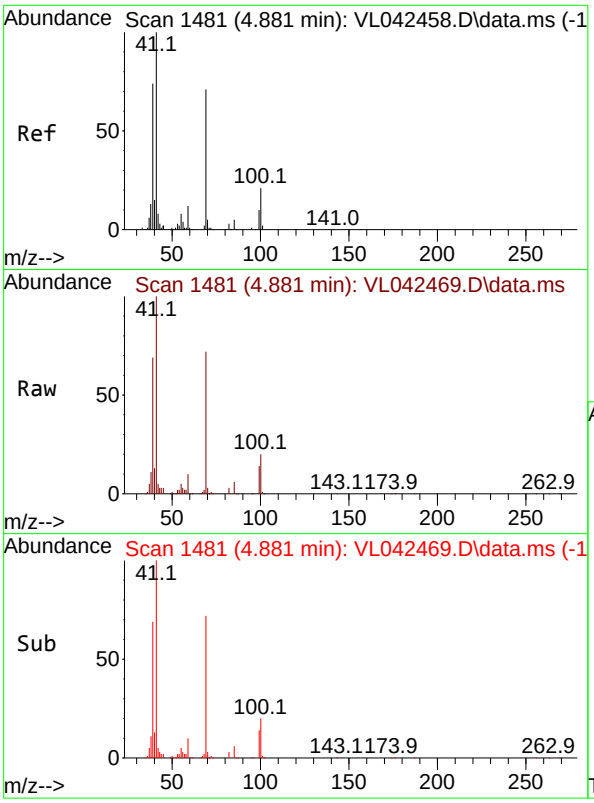


#42
Bromodichloromethane
Concen: 10.347 ppbv
RT: 4.496 min Scan# 1362
Delta R.T. 0.010 min
Lab File: VL042469.D
Acq: 05 May 2025 08:29

Tgt Ion: 83 Resp: 191130

Ion	Ratio	Lower	Upper
83	100		
85	62.6	51.5	77.3
127	6.7	5.4	8.2

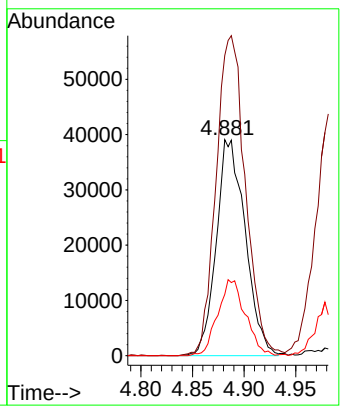




#43
Methyl Methacrylate
Concen: 10.433 ppbv
RT: 4.881 min Scan# 14
Delta R.T. 0.000 min
Lab File: VL042469.D
Acq: 05 May 2025 08:29

Tgt Ion: 69 Resp: 7636

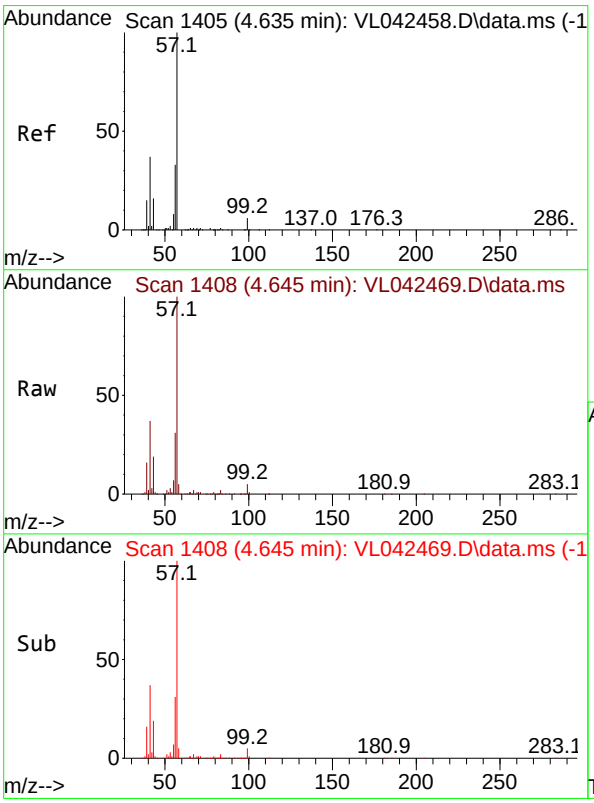
Ion	Ratio	Lower	Upper
69	100		
41	150.0	120.8	181.2
100	33.8	26.7	40.1



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

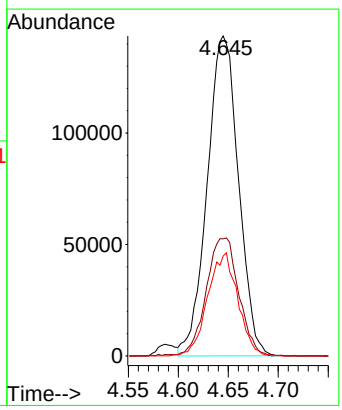
Reviewed By :Semsettin Yesilyurt 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

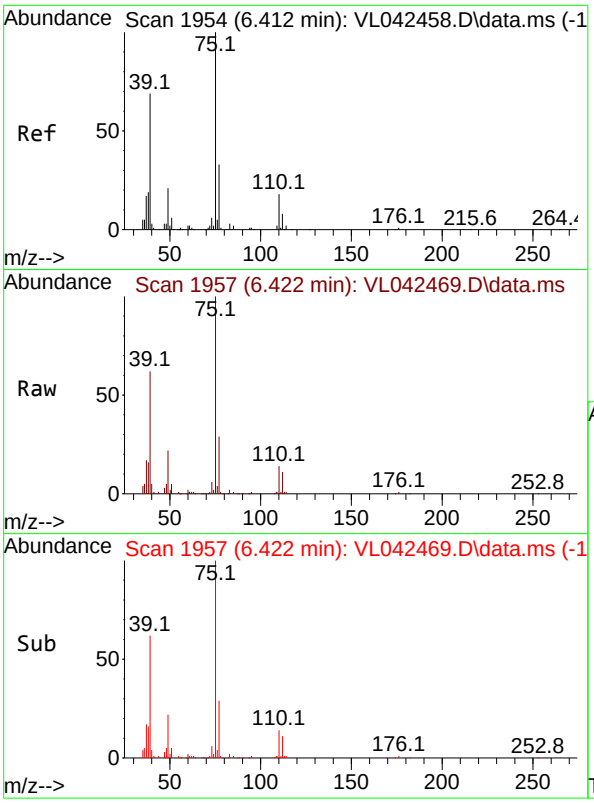


#44
2,2,4-Trimethylpentane
Concen: 9.838 ppbv
RT: 4.645 min Scan# 1408
Delta R.T. 0.010 min
Lab File: VL042469.D
Acq: 05 May 2025 08:29

Tgt Ion: 57 Resp: 312811

Ion	Ratio	Lower	Upper
57	100		
41	38.5	30.6	45.8
56	31.0	25.0	37.6

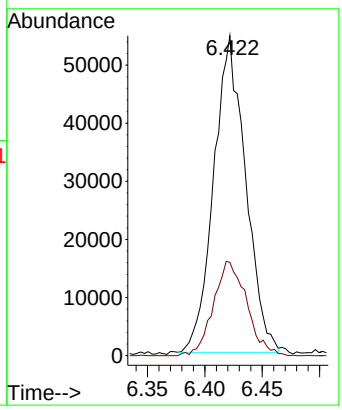




#45
t-1,3-Dichloropropene
Concen: 10.980 ppbv
RT: 6.422 min Scan# 1
Delta R.T. 0.010 min
Lab File: VL042469.D
Acq: 05 May 2025 08:29

Tgt Ion: 75 Resp: 10543

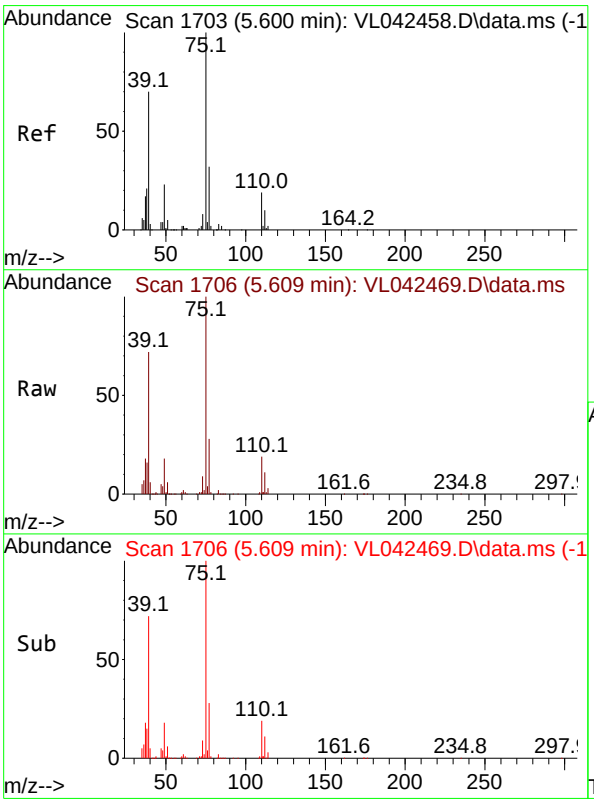
Ion	Ratio	Lower	Upper
75	100		
77	29.2	26.3	39.5



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

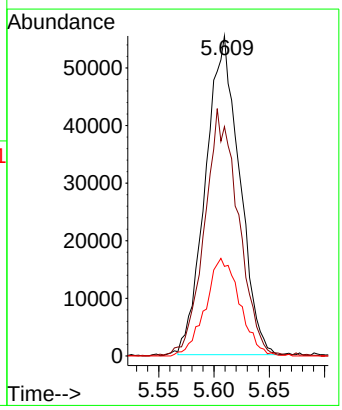
Reviewed By :Semsettin Yesilyurt 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

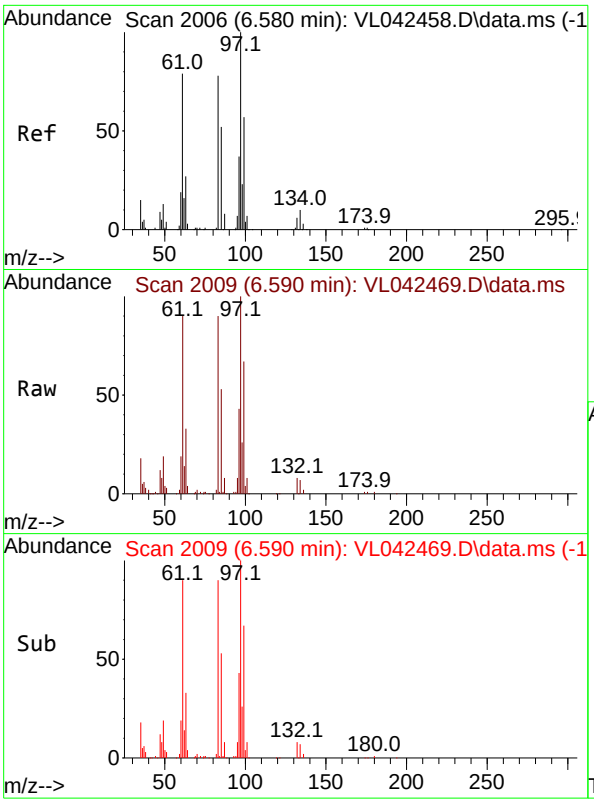


#46
cis-1,3-Dichloropropene
Concen: 10.321 ppbv
RT: 5.609 min Scan# 1706
Delta R.T. 0.010 min
Lab File: VL042469.D
Acq: 05 May 2025 08:29

Tgt Ion: 75 Resp: 117796

Ion	Ratio	Lower	Upper
75	100		
39	71.0	55.7	83.5
77	27.9	25.8	38.8

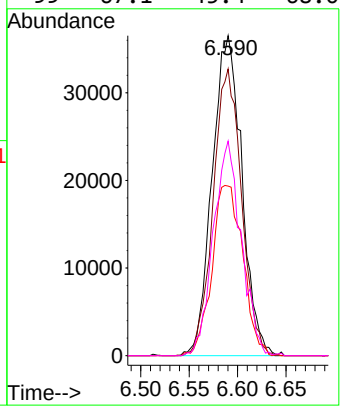




#47
1,1,2-Trichloroethane
Concen: 9.651 ppbv
RT: 6.590 min Scan# 2
Delta R.T. 0.010 min
Lab File: VL042469.D
Acq: 05 May 2025 08:29

Tgt Ion: 97 Resp: 7772

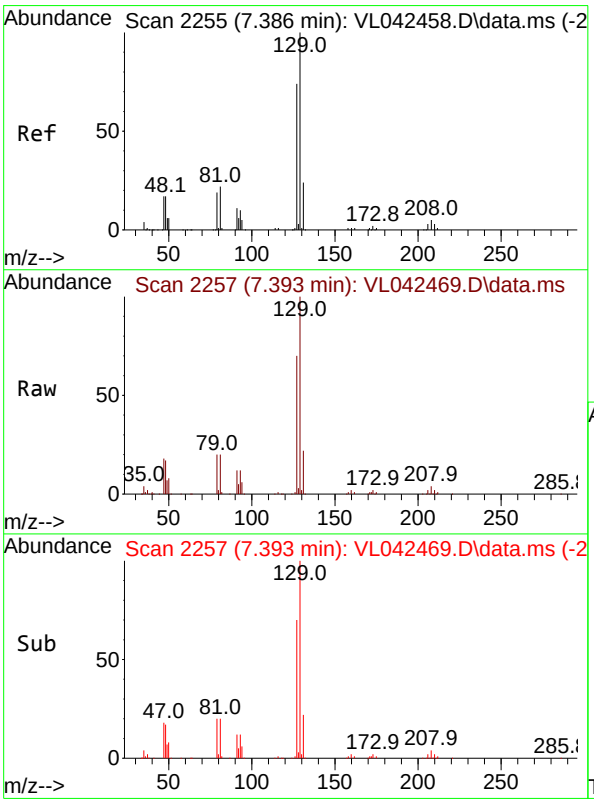
Ion	Ratio	Lower	Upper
97	100		
83	89.6	62.2	93.2
85	53.0	41.5	62.3
99	67.1	45.4	68.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

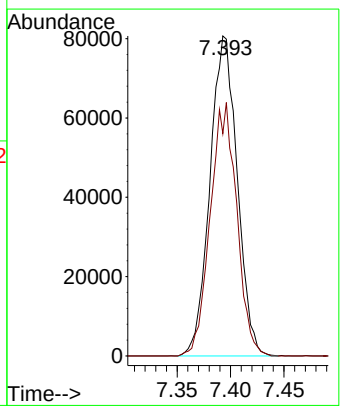
Reviewed By :Semsettin Yesilyurt 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

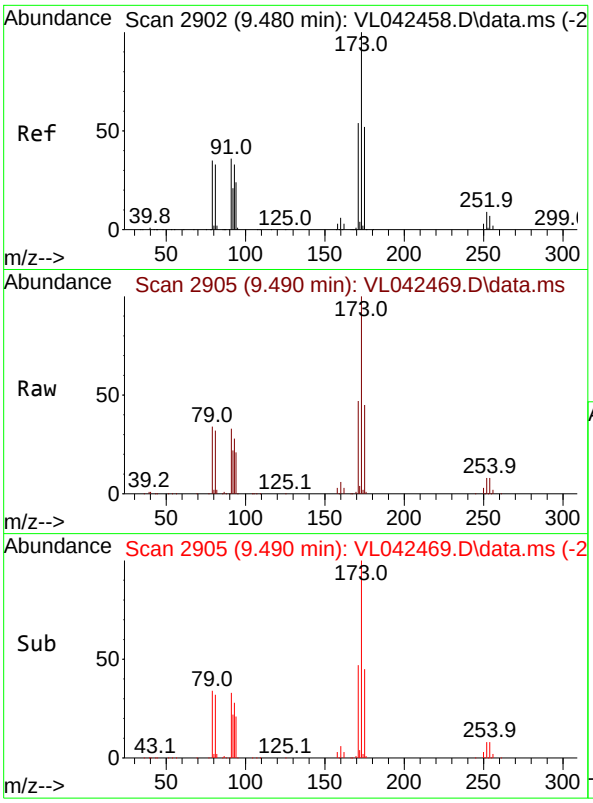


#48
Dibromochloromethane
Concen: 10.556 ppbv
RT: 7.393 min Scan# 2257
Delta R.T. 0.007 min
Lab File: VL042469.D
Acq: 05 May 2025 08:29

Tgt Ion:129 Resp: 143524

Ion	Ratio	Lower	Upper
129	100		
127	76.7	39.5	118.5

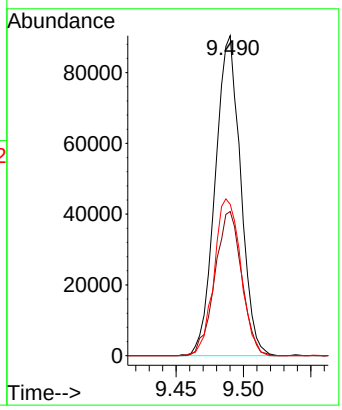




#49
Bromoform
Concen: 10.402 ppbv
RT: 9.490 min Scan# 2
Delta R.T. 0.010 min
Lab File: VL042469.D
Acq: 05 May 2025 08:29

Tgt Ion:173 Resp: 11861

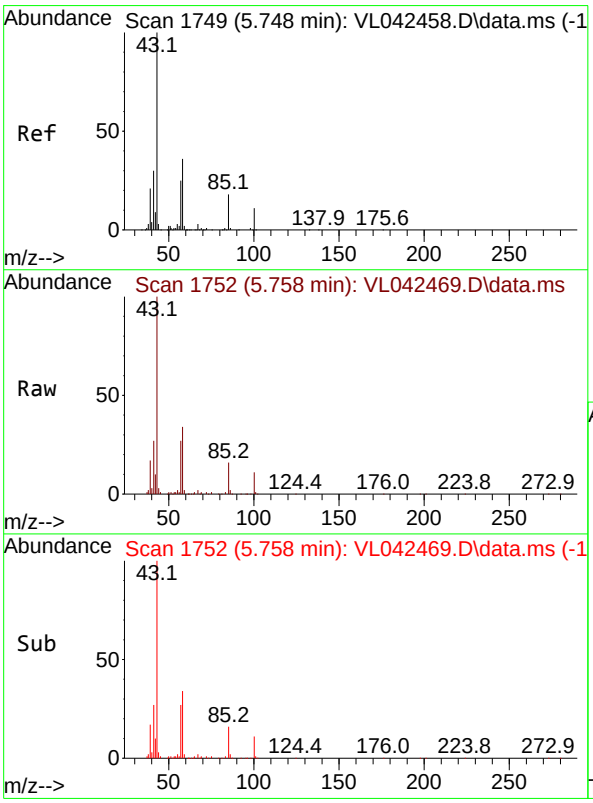
Ion	Ratio	Lower	Upper
173	100		
175	47.6	38.9	58.3
171	51.5	40.6	60.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

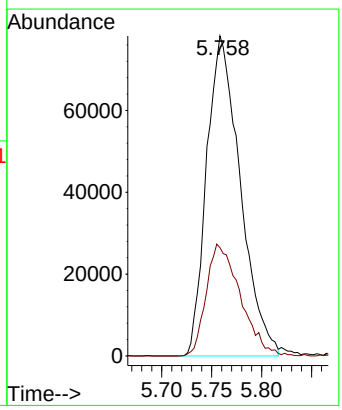
Reviewed By :Semsettin Yesilyurt 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

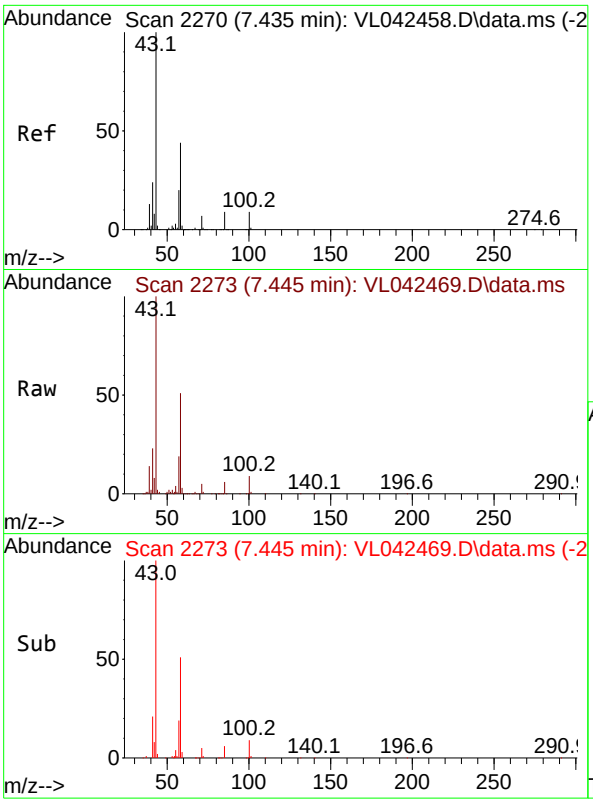


#50
4-Methyl-2-Pentanone
Concen: 9.625 ppbv
RT: 5.758 min Scan# 1752
Delta R.T. 0.010 min
Lab File: VL042469.D
Acq: 05 May 2025 08:29

Tgt Ion: 43 Resp: 183038

Ion	Ratio	Lower	Upper
43	100		
58	35.5	29.5	44.3





#51
2-Hexanone
Concen: 9.703 ppbv
RT: 7.445 min Scan# 2
Delta R.T. 0.010 min
Lab File: VL042469.D
Acq: 05 May 2025 08:29

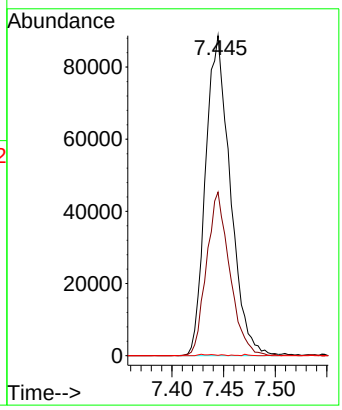
Tgt Ion: 43 Resp: 14752

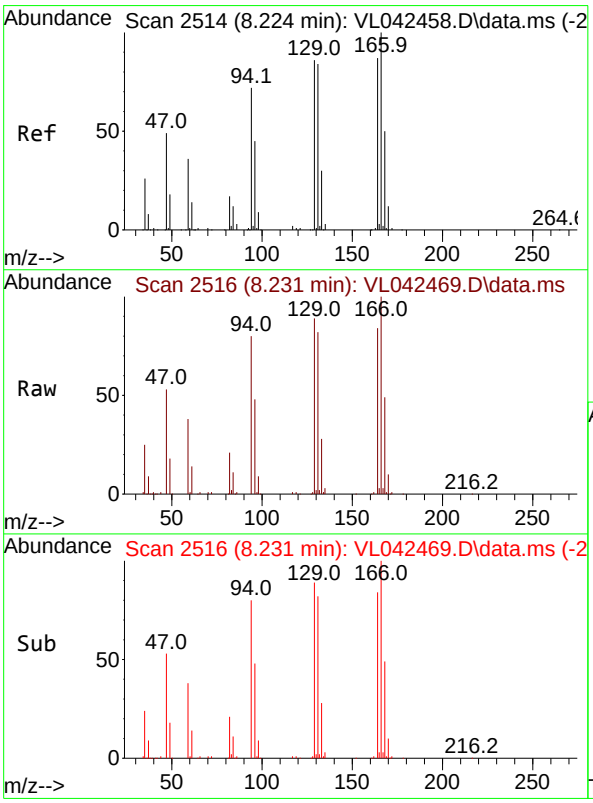
Ion	Ratio	Lower	Upper
43	100		
58	48.3	37.2	55.8
98	0.3	0.4	0.6

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

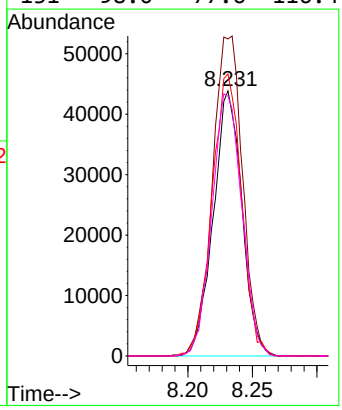


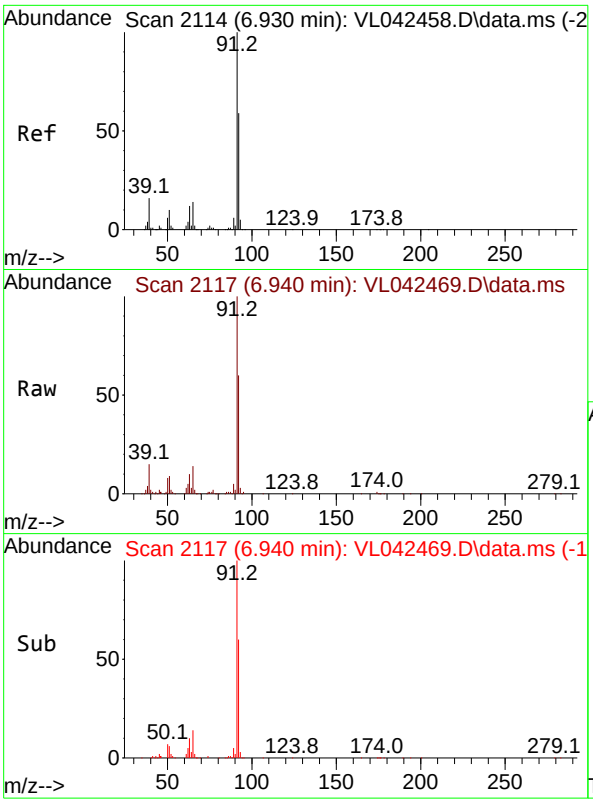


#52
Tetrachloroethene
Concen: 9.038 ppbv
RT: 8.231 min Scan# 2516
Delta R.T. 0.007 min
Lab File: VL042469.D
Acq: 05 May 2025 08:29

Tgt Ion:164 Resp: 67482

Ion	Ratio	Lower	Upper
164	100		
166	119.6	91.6	137.4
129	106.5	79.0	118.4
131	98.0	77.6	116.4

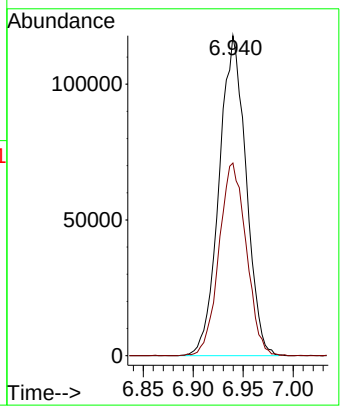




#53
Toluene
Concen: 10.638 ppbv
RT: 6.940 min Scan# 21
Delta R.T. 0.010 min
Lab File: VL042469.D
Acq: 05 May 2025 08:29

Tgt Ion: 91 Resp: 22087

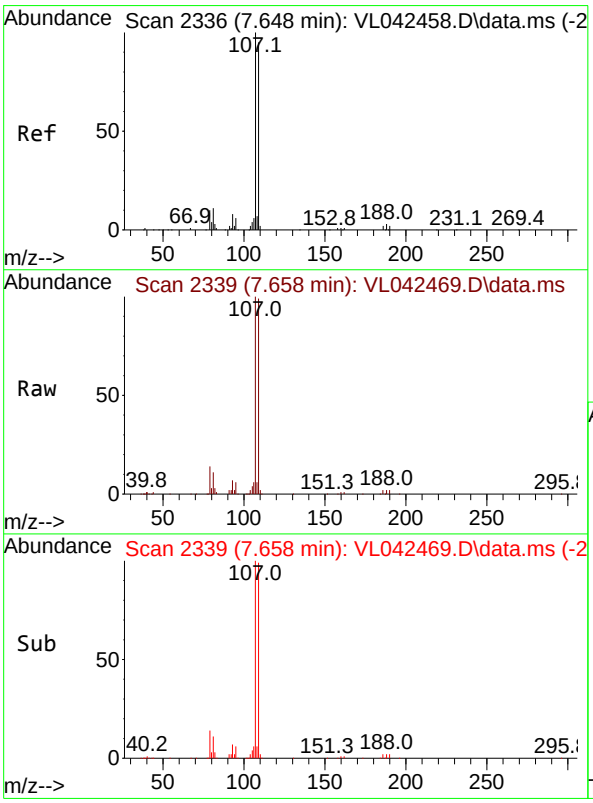
Ion	Ratio	Lower	Upper
91	100		
92	61.0	47.9	71.9



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

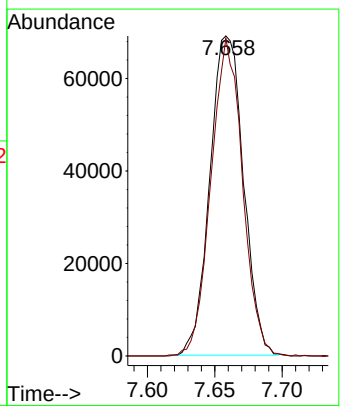
Reviewed By :Semsettin Yesilyurt 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

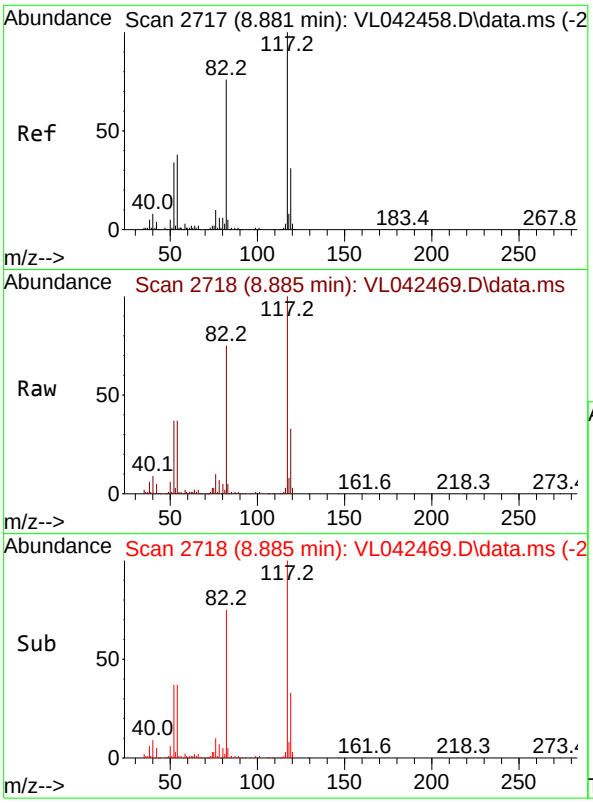


#54
1,2-Dibromoethane
Concen: 9.739 ppbv
RT: 7.658 min Scan# 2339
Delta R.T. 0.010 min
Lab File: VL042469.D
Acq: 05 May 2025 08:29

Tgt Ion:107 Resp: 119914

Ion	Ratio	Lower	Upper
107	100		
109	98.9	76.0	114.0

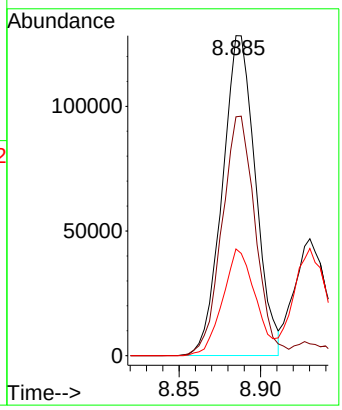




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.885 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042469.D
Acq: 05 May 2025 08:29

Tgt Ion:117 Resp: 18093

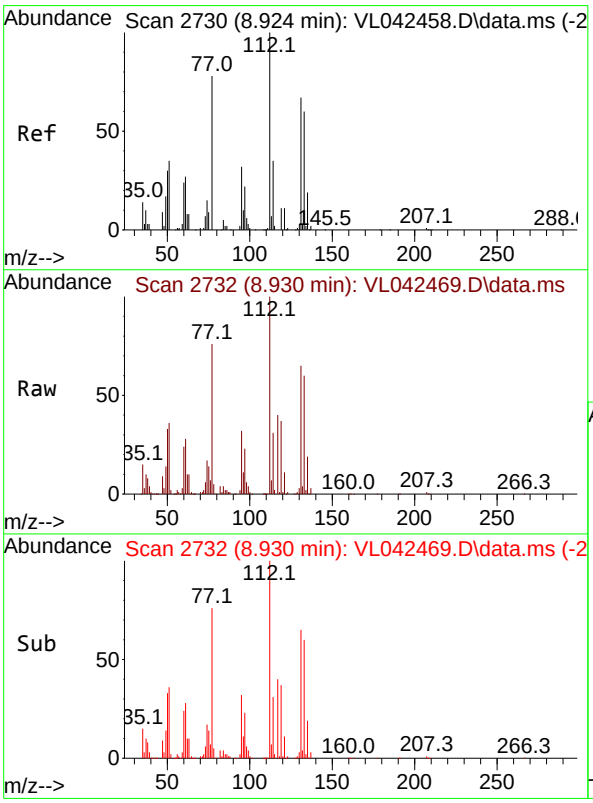
Ion	Ratio	Lower	Upper
117	100		
82	79.1	63.5	95.3
119	33.6	25.8	38.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

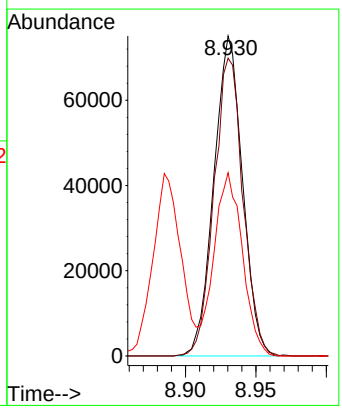
Reviewed By :Semsettin Yesilyurt 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

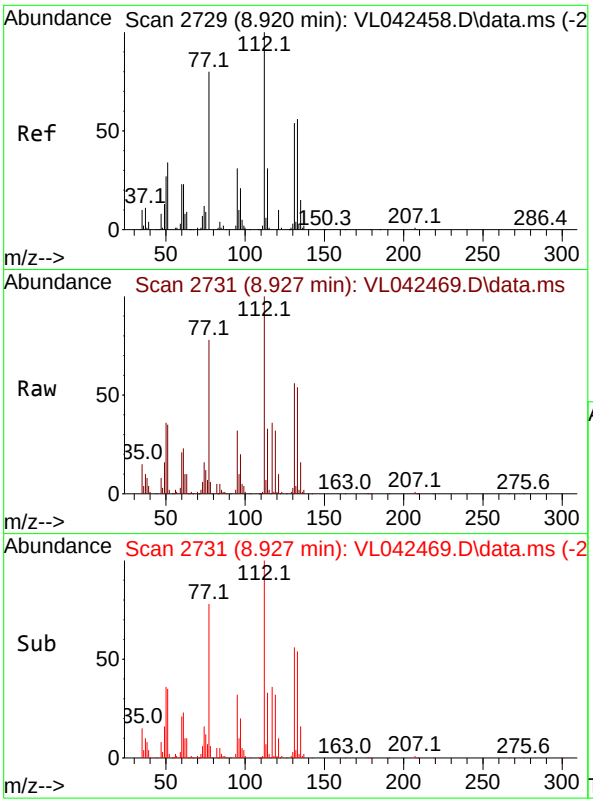


#56
1,1,1,2-Tetrachloroethane
Concen: 9.942 ppbv
RT: 8.930 min Scan# 2732
Delta R.T. 0.007 min
Lab File: VL042469.D
Acq: 05 May 2025 08:29

Tgt Ion:131 Resp: 106249

Ion	Ratio	Lower	Upper
131	100		
133	94.4	76.0	114.0
119	56.0	46.1	69.1

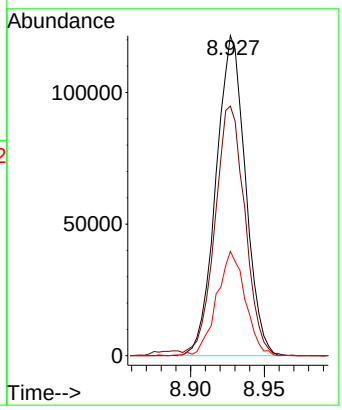




#57
Chlorobenzene
Concen: 9.284 ppbv
RT: 8.927 min Scan# 2
Delta R.T. 0.007 min
Lab File: VL042469.D
Acq: 05 May 2025 08:29

Tgt Ion:112 Resp: 16879

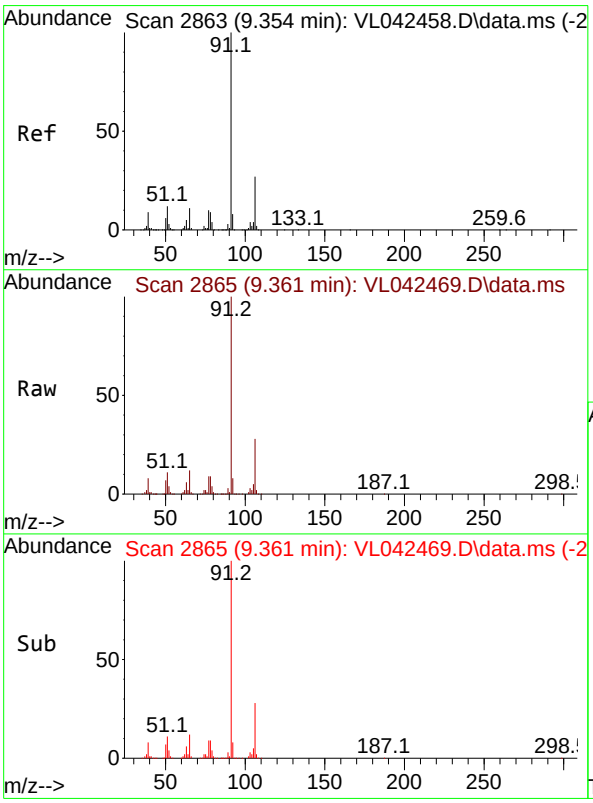
Ion	Ratio	Lower	Upper
112	100		
77	77.3	65.0	97.4
114	32.6	27.5	33.7



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

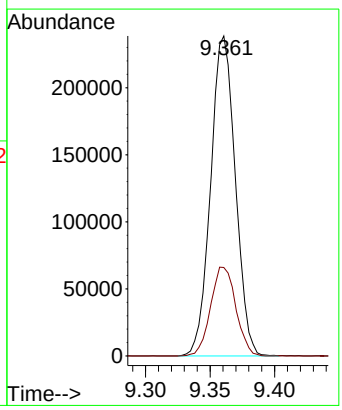
Reviewed By :Semsettin Yesilyurt 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

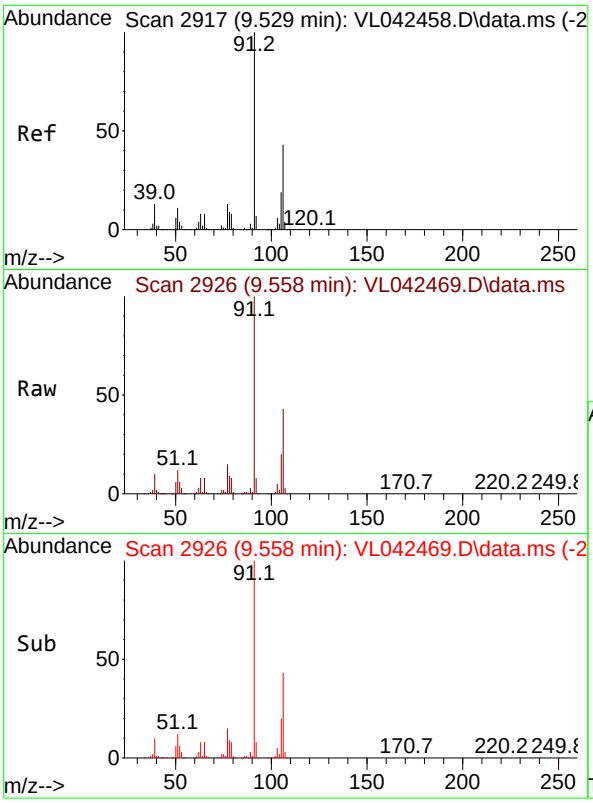


#58
Ethyl Benzene
Concen: 10.487 ppbv
RT: 9.361 min Scan# 2865
Delta R.T. 0.007 min
Lab File: VL042469.D
Acq: 05 May 2025 08:29

Tgt Ion: 91 Resp: 317094

Ion	Ratio	Lower	Upper
91	100		
106	27.6	21.9	32.9





#59
m/p-Xylene
Concen: 21.363 ppbv m
RT: 9.558 min Scan# 2
Delta R.T. 0.029 min
Lab File: VL042469.D
Acq: 05 May 2025 08:29

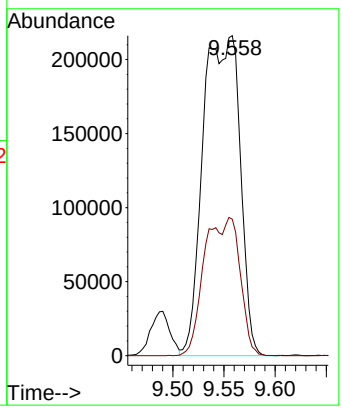
Tgt Ion: 91 Resp: 54154

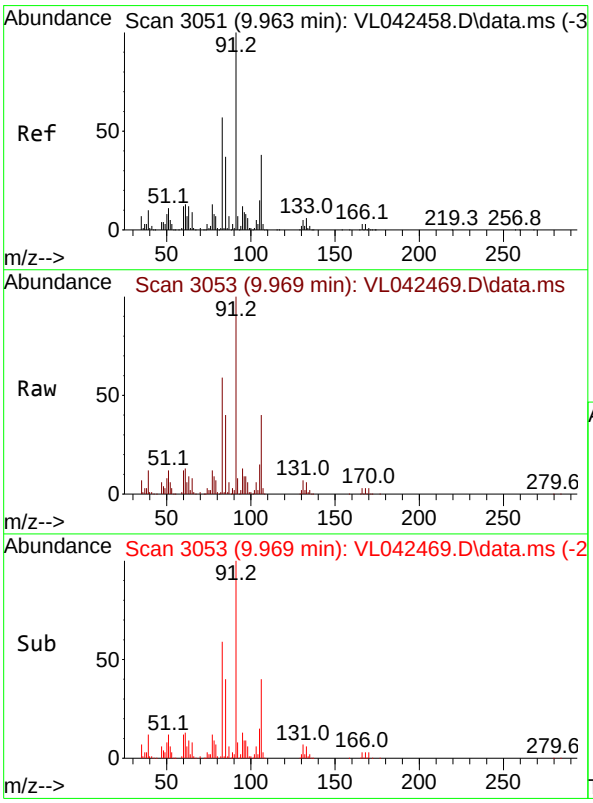
Ion	Ratio	Lower	Upper
91	100		
106	0.0	34.2	51.2

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

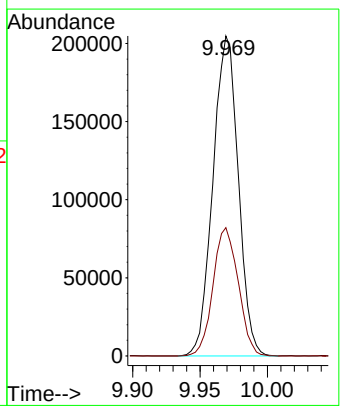


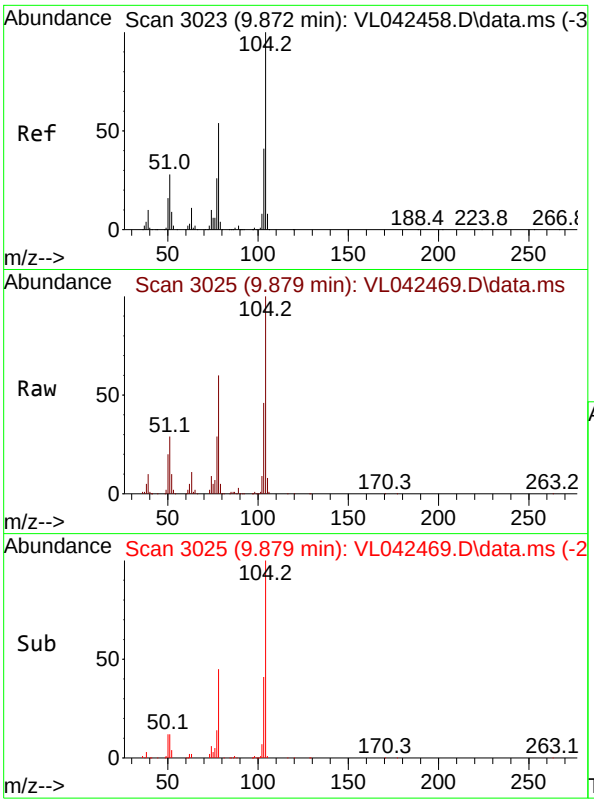


#60
o-Xylene
Concen: 10.552 ppbv
RT: 9.969 min Scan# 3053
Delta R.T. 0.007 min
Lab File: VL042469.D
Acq: 05 May 2025 08:29

Tgt Ion: 91 Resp: 267806

Ion	Ratio	Lower	Upper
91	100		
106	39.9	20.1	60.2

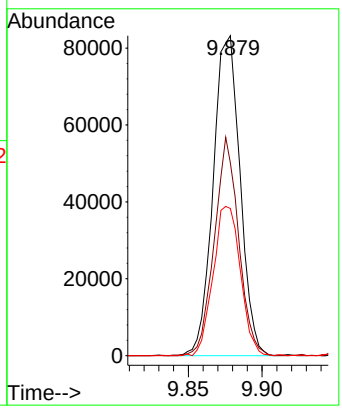




#61
Styrene
Concen: 11.160 ppbv
RT: 9.879 min Scan# 3
Delta R.T. 0.007 min
Lab File: VL042469.D
Acq: 05 May 2025 08:29

Tgt Ion:104 Resp: 10569

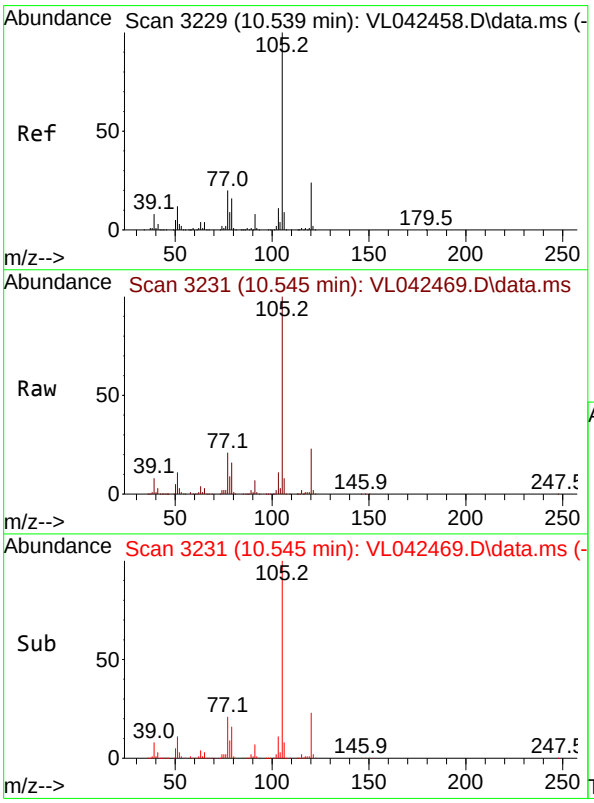
Ion	Ratio	Lower	Upper
104	100		
78	61.7	46.9	70.3
103	47.3	36.6	55.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

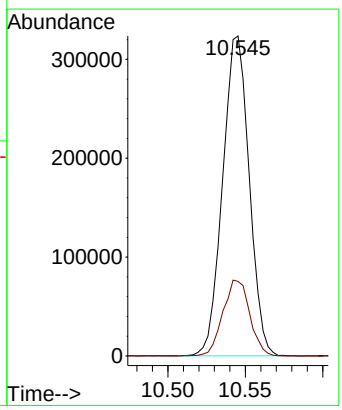
Reviewed By :Semsettin Yesilyurt 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

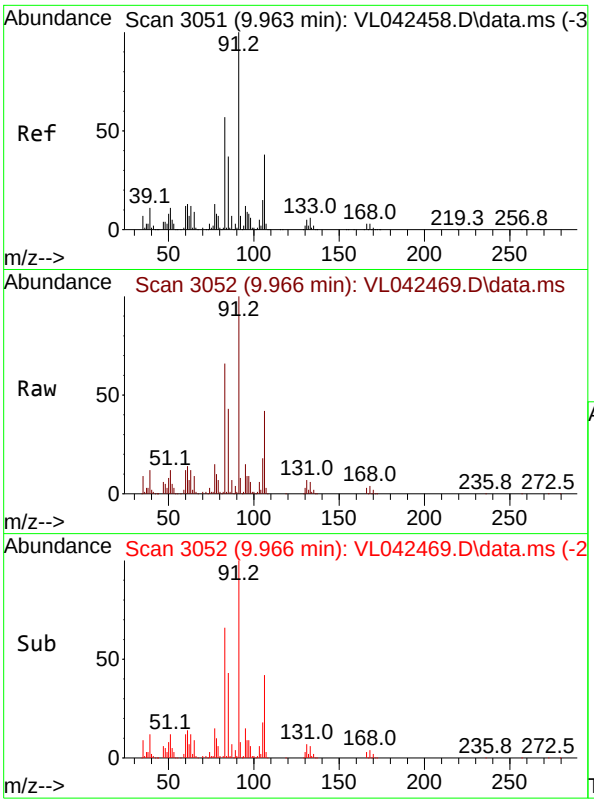


#62
Isopropylbenzene
Concen: 10.538 ppbv
RT: 10.545 min Scan# 3231
Delta R.T. 0.007 min
Lab File: VL042469.D
Acq: 05 May 2025 08:29

Tgt Ion:105 Resp: 385788

Ion	Ratio	Lower	Upper
105	100		
120	24.1	18.8	28.2





#63
1,1,2,2-Tetrachloroethane
Concen: 9.137 ppbv
RT: 9.966 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042469.D
Acq: 05 May 2025 08:29

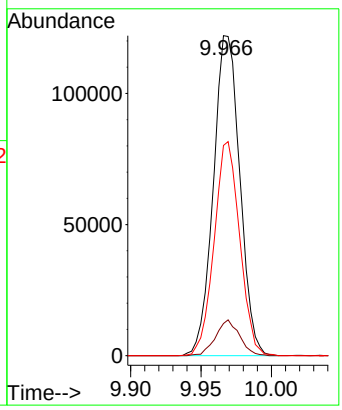
Tgt Ion: 83 Resp: 15988

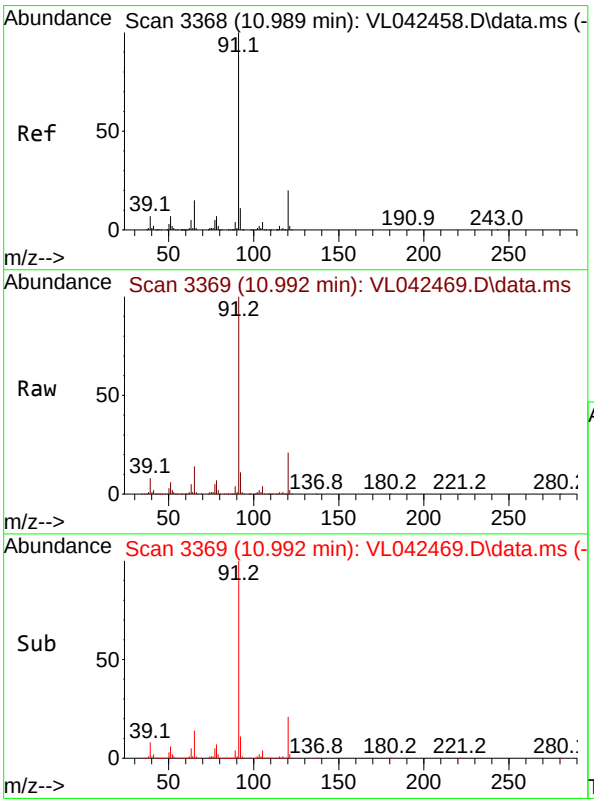
Ion	Ratio	Lower	Upper
83	100		
131	10.1	4.7	14.1
85	64.6	32.5	97.4

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

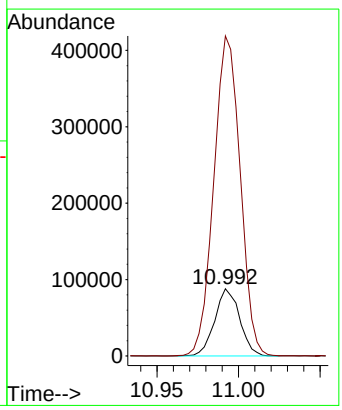


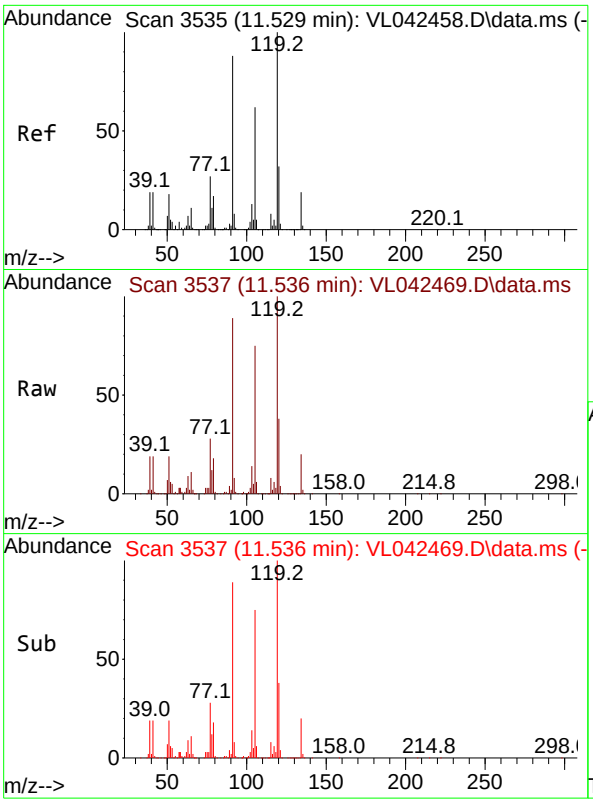


#64
n-propylbenzene
Concen: 10.429 ppbv
RT: 10.992 min Scan# 3369
Delta R.T. 0.003 min
Lab File: VL042469.D
Acq: 05 May 2025 08:29

Tgt Ion:120 Resp: 93317

Ion	Ratio	Lower	Upper
120	100		
91	505.8	408.6	612.8





#65
tert-Butylbenzene
Concen: 10.684 ppbv
RT: 11.536 min Scan# 3
Delta R.T. 0.007 min
Lab File: VL042469.D
Acq: 05 May 2025 08:29

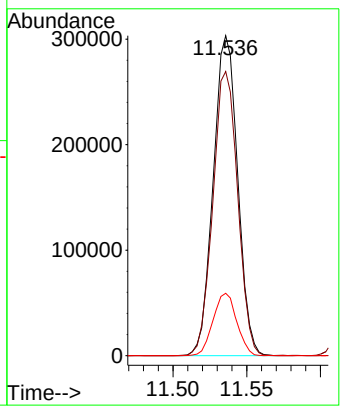
Tgt Ion:119 Resp: 34907

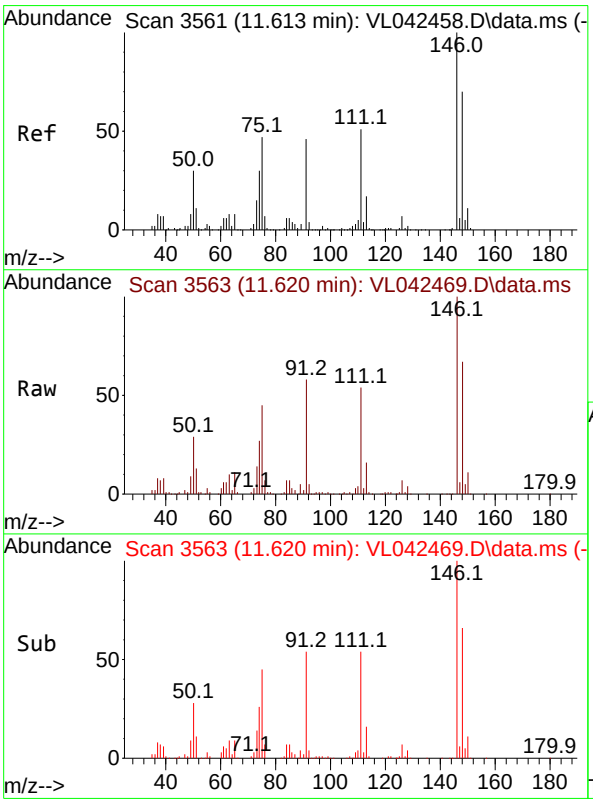
Ion	Ratio	Lower	Upper
119	100		
91	90.3	71.6	107.4
134	18.9	15.0	22.4

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

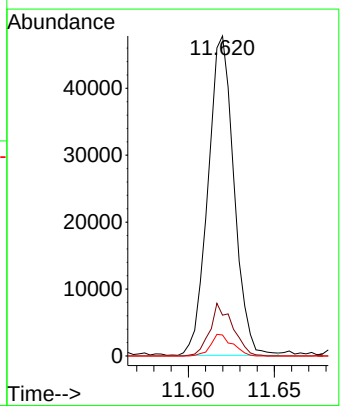


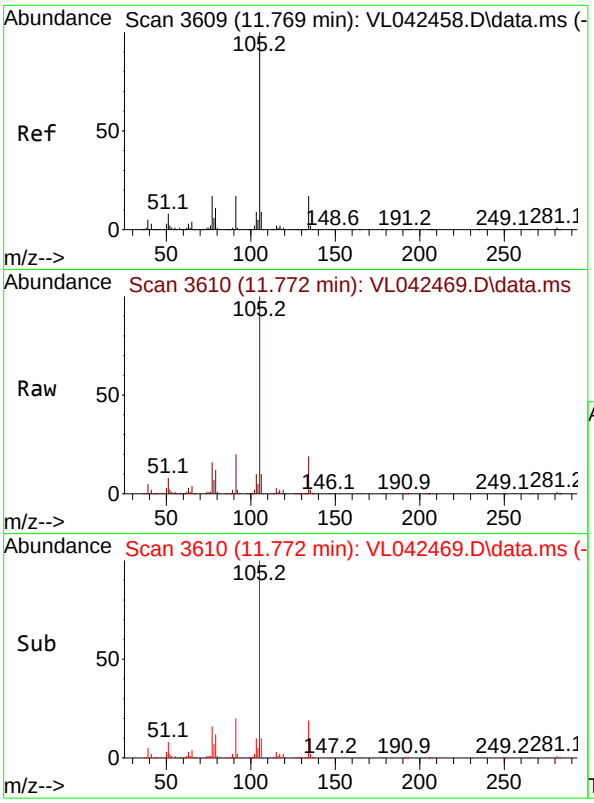


#66
Benzyl Chloride
Concen: 13.257 ppbv
RT: 11.620 min Scan# 3563
Delta R.T. 0.007 min
Lab File: VL042469.D
Acq: 05 May 2025 08:29

Tgt Ion: 91 Resp: 50060

Ion	Ratio	Lower	Upper
91	100		
126	14.4	13.3	19.9
128	5.6	4.2	6.4





#67
sec-Butylbenzene
Concen: 10.568 ppbv
RT: 11.772 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042469.D
Acq: 05 May 2025 08:29

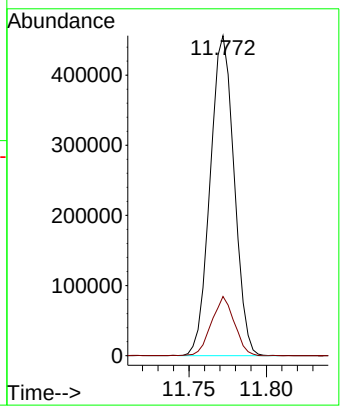
Tgt Ion:105 Resp: 490679

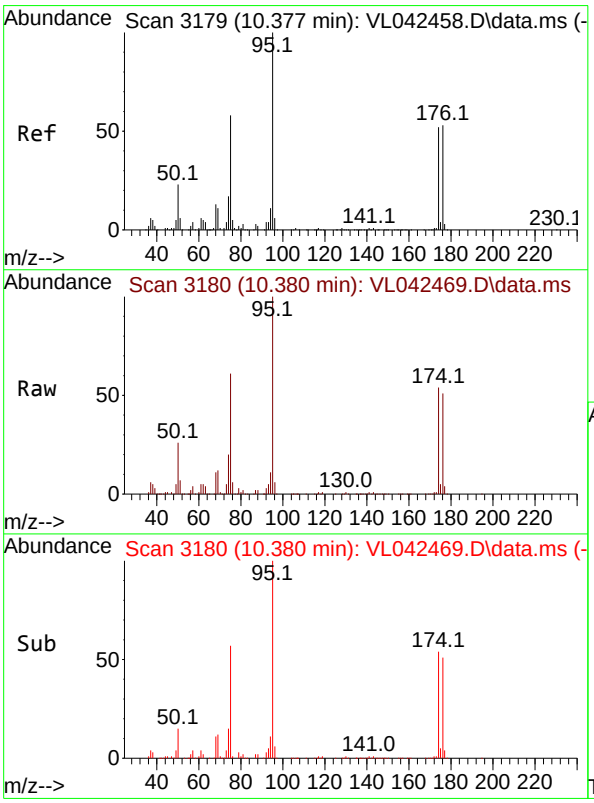
Ion	Ratio	Lower	Upper
105	100		
134	17.8	14.1	21.1

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

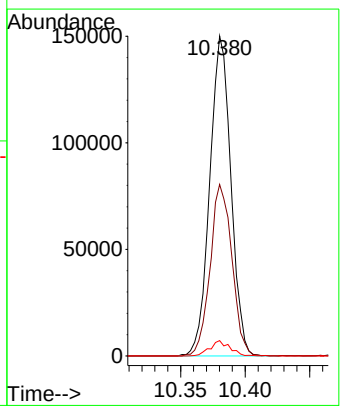


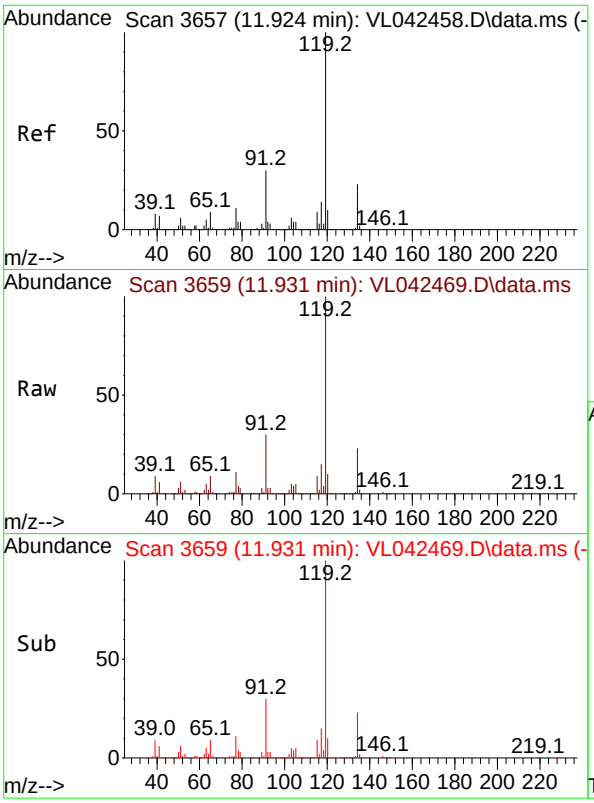


#68
1-Bromo-4-Fluorobenzene
Concen: 10.212 ppbv
RT: 10.380 min Scan# 3180
Delta R.T. 0.003 min
Lab File: VL042469.D
Acq: 05 May 2025 08:29

Tgt Ion: 95 Resp: 171319

Ion	Ratio	Lower	Upper
95	100		
174	55.4	42.7	64.1
175	4.6	3.6	5.4

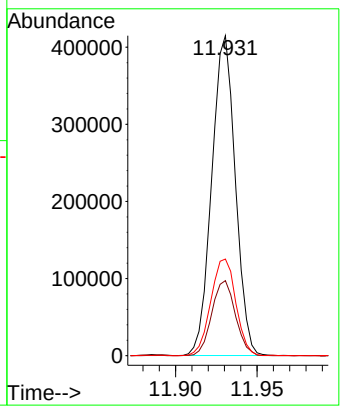




#69
p-Isopropyltoluene
Concen: 10.663 ppbv
RT: 11.931 min Scan# 3
Delta R.T. 0.007 min
Lab File: VL042469.D
Acq: 05 May 2025 08:29

Tgt Ion:119 Resp: 41711

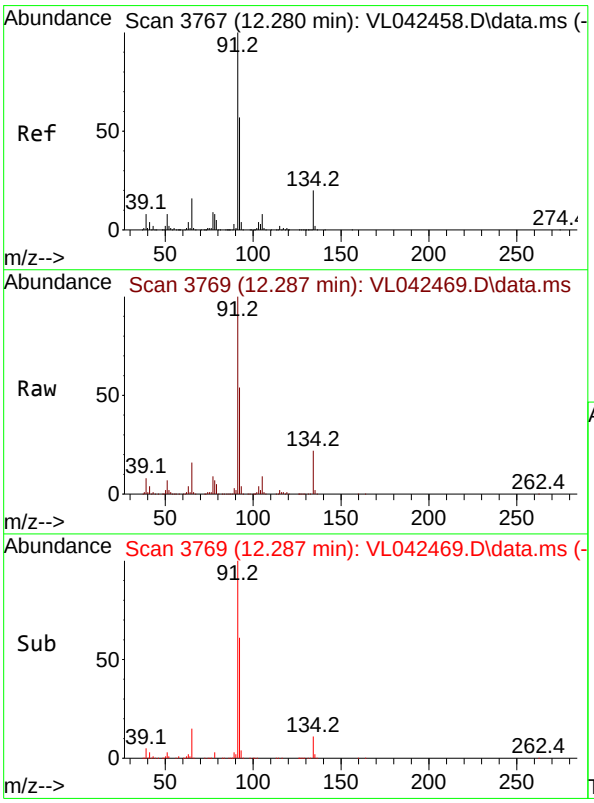
Ion	Ratio	Lower	Upper
119	100		
134	23.6	19.0	28.4
91	32.4	25.5	38.3



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

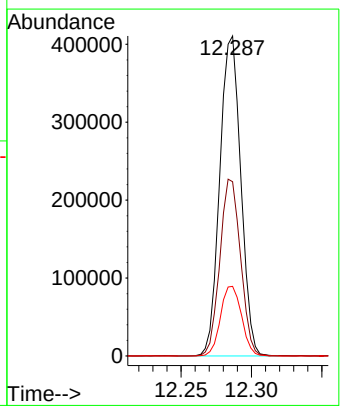
Reviewed By :Semsettin Yesilyurt 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

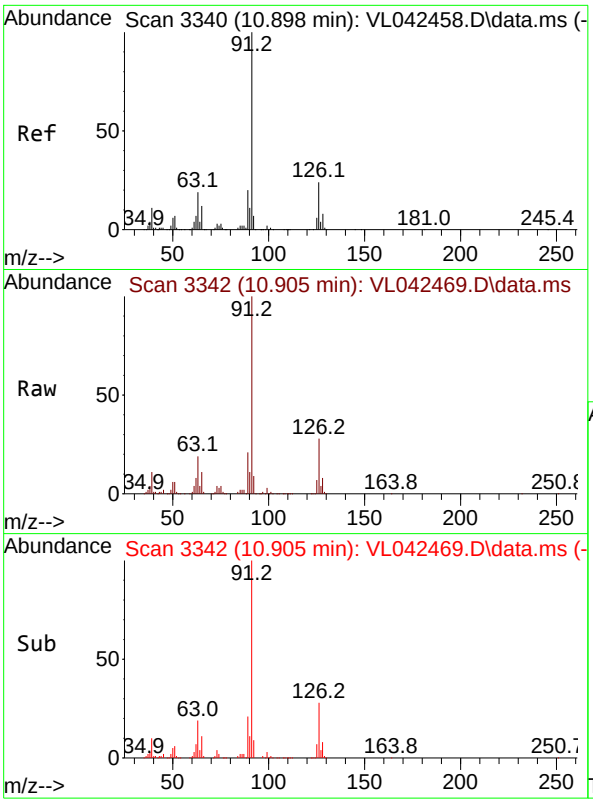


#70
n-Butylbenzene
Concen: 10.561 ppbv
RT: 12.287 min Scan# 3769
Delta R.T. 0.007 min
Lab File: VL042469.D
Acq: 05 May 2025 08:29

Tgt Ion: 91 Resp: 427083

Ion	Ratio	Lower	Upper
91	100		
92	54.5	44.0	66.0
134	21.8	16.8	25.2

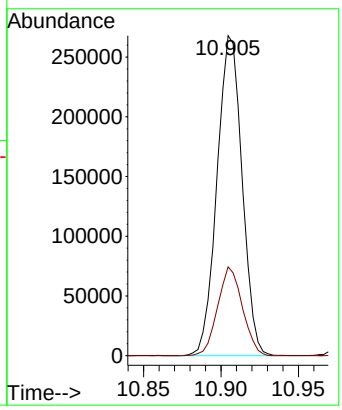




#71
2-Chlorotoluene
Concen: 10.504 ppbv
RT: 10.905 min Scan# 3
Delta R.T. 0.007 min
Lab File: VL042469.D
Acq: 05 May 2025 08:29

Tgt Ion: 91 Resp: 30162

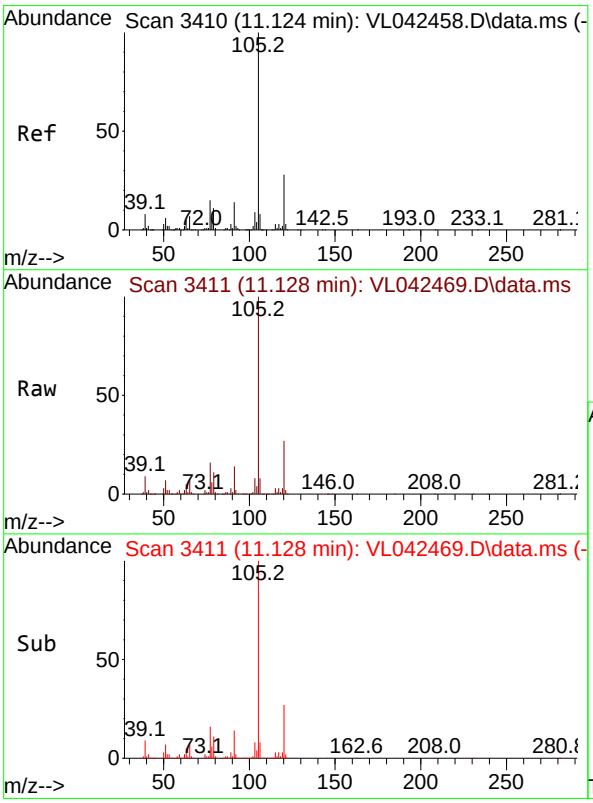
Ion	Ratio	Lower	Upper
91	100		
126	27.3	10.6	42.2



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

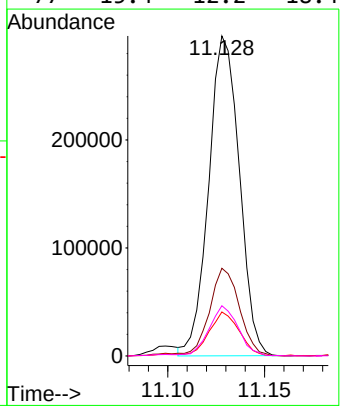
Reviewed By :Semsettin Yesilyurt 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

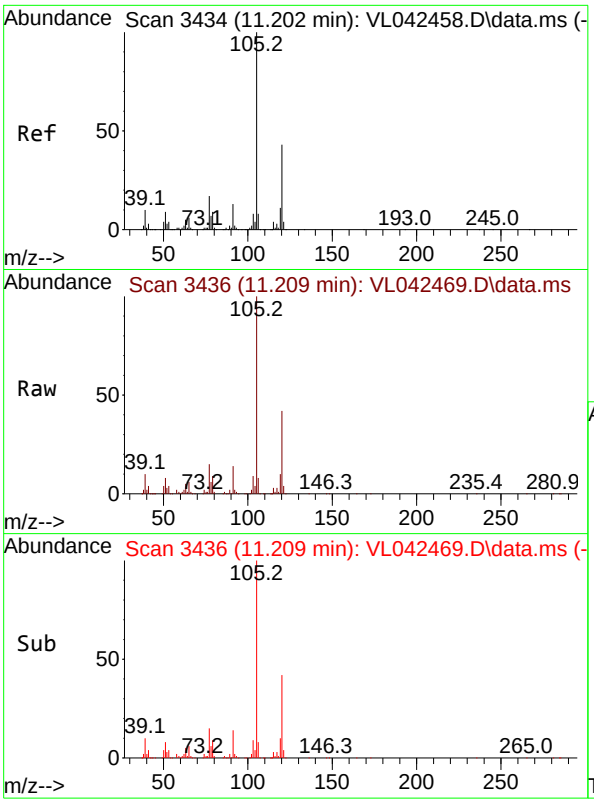


#72
4-Ethyltoluene
Concen: 10.905 ppbv
RT: 11.128 min Scan# 3411
Delta R.T. 0.003 min
Lab File: VL042469.D
Acq: 05 May 2025 08:29

Tgt Ion:105 Resp: 326323

Ion	Ratio	Lower	Upper
105	100		
120	27.3	22.0	33.0
91	14.3	11.2	16.8
77	15.4	12.2	18.4

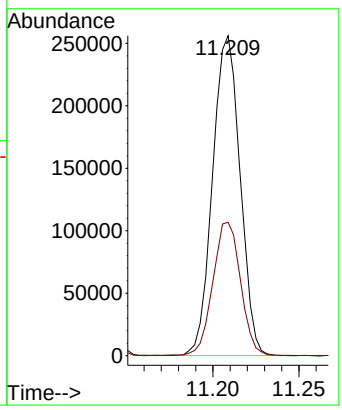




#73
1,3,5-Trimethylbenzene
Concen: 10.791 ppbv
RT: 11.209 min Scan# 34
Delta R.T. 0.007 min
Lab File: VL042469.D
Acq: 05 May 2025 08:29

Tgt Ion:105 Resp: 28399

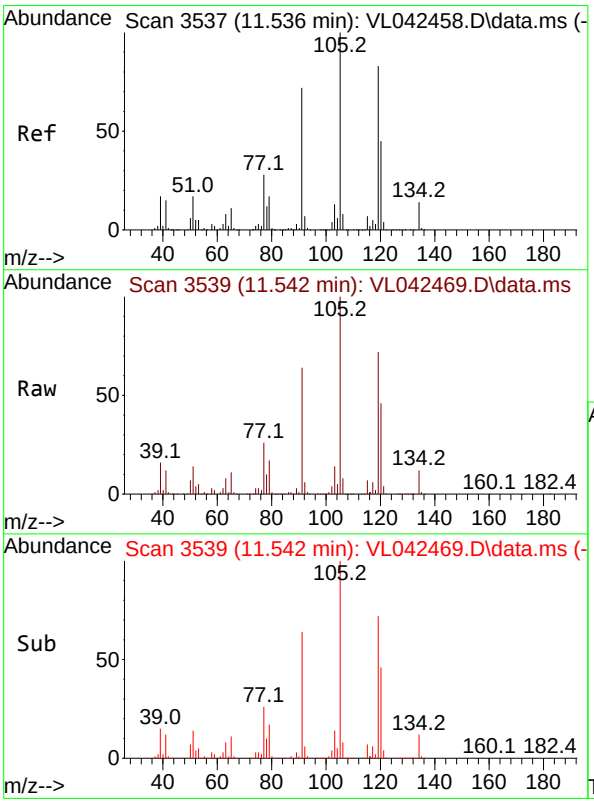
Ion	Ratio	Lower	Upper
105	100		
120	41.6	34.4	51.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

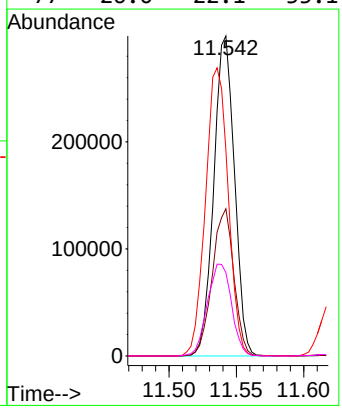
Reviewed By :Semsettin Yesilyurt 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

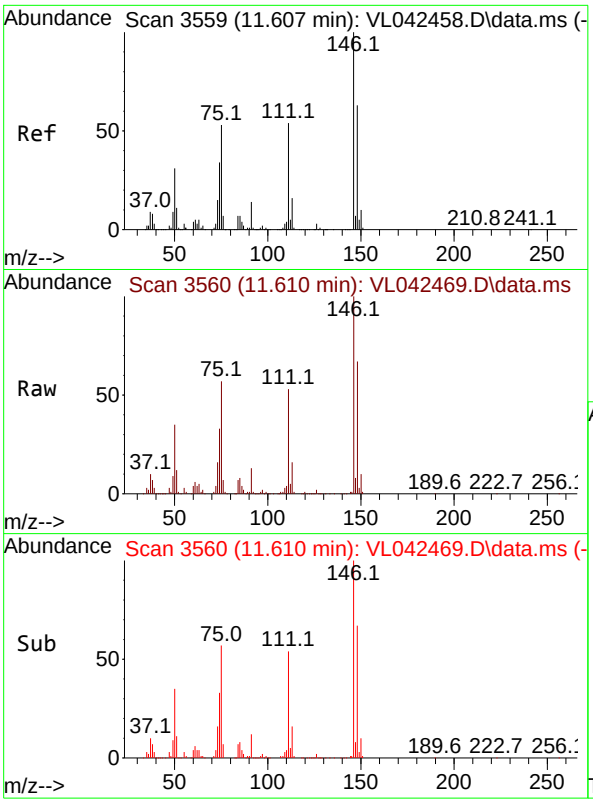


#74
1,2,4-Trimethylbenzene
Concen: 10.056 ppbv
RT: 11.542 min Scan# 3539
Delta R.T. 0.007 min
Lab File: VL042469.D
Acq: 05 May 2025 08:29

Tgt Ion:105 Resp: 320216

Ion	Ratio	Lower	Upper
105	100		
120	46.0	36.1	54.1
91	64.3	57.6	86.4
77	26.0	22.1	33.1

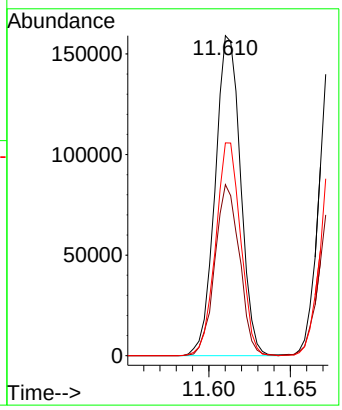




#75
1,3-Dichlorobenzene
Concen: 9.693 ppbv
RT: 11.610 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042469.D
Acq: 05 May 2025 08:29

Tgt Ion:146 Resp: 17182

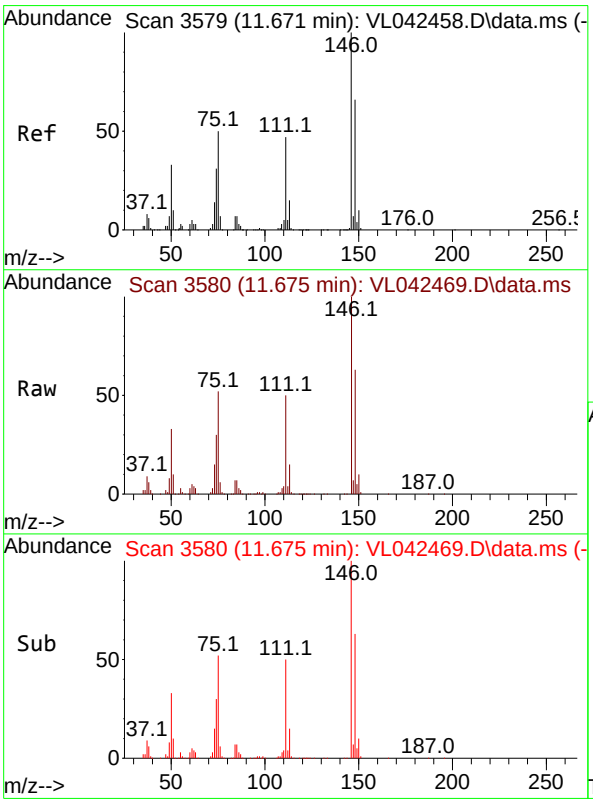
Ion	Ratio	Lower	Upper
146	100		
111	52.0	26.1	78.3
148	65.5	32.0	96.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

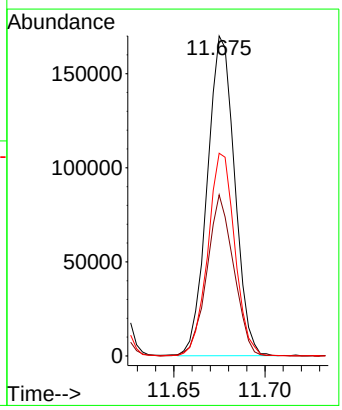
Reviewed By :Semsettin Yesilyurt 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

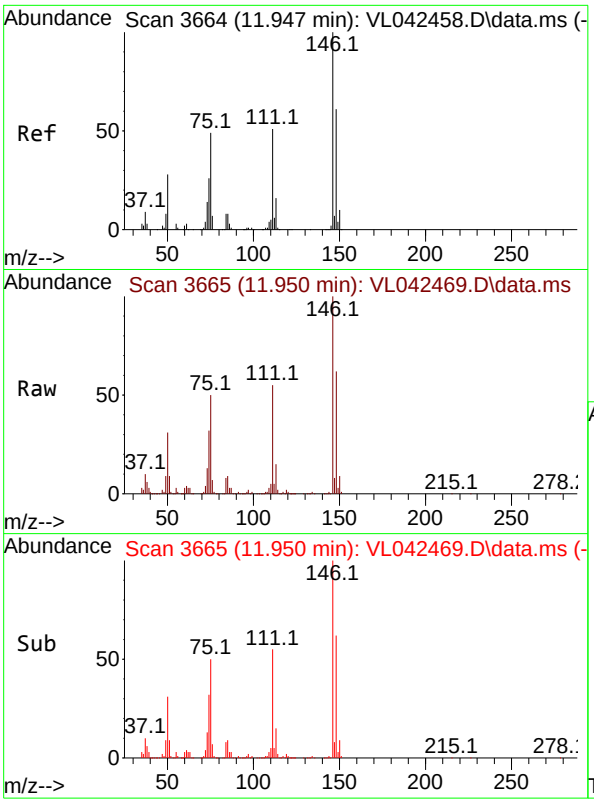


#76
1,4-Dichlorobenzene
Concen: 10.566 ppbv
RT: 11.675 min Scan# 3580
Delta R.T. 0.003 min
Lab File: VL042469.D
Acq: 05 May 2025 08:29

Tgt Ion:146 Resp: 177262

Ion	Ratio	Lower	Upper
146	100		
111	49.3	24.4	73.2
148	62.5	32.0	96.2

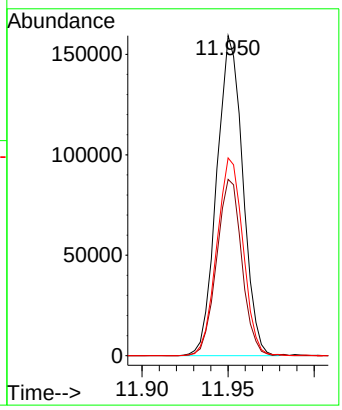




#77
1,2-Dichlorobenzene
Concen: 9.660 ppbv
RT: 11.950 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042469.D
Acq: 05 May 2025 08:29

Tgt Ion:146 Resp: 16762

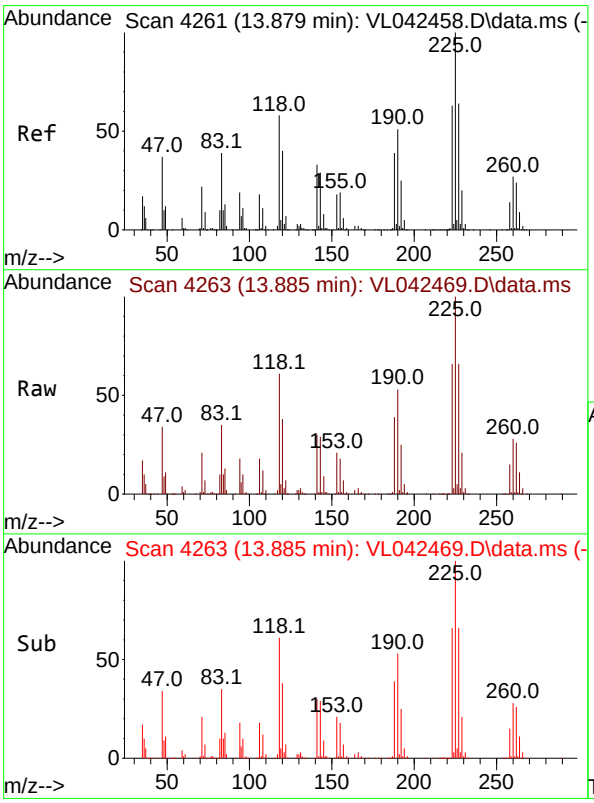
Ion	Ratio	Lower	Upper
146	100		
111	53.5	26.5	79.5
148	62.3	31.5	94.5



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

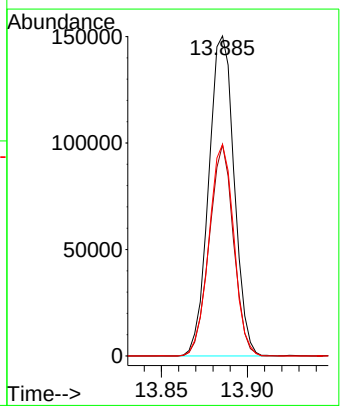
Reviewed By :Semsettin Yesilyurt 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

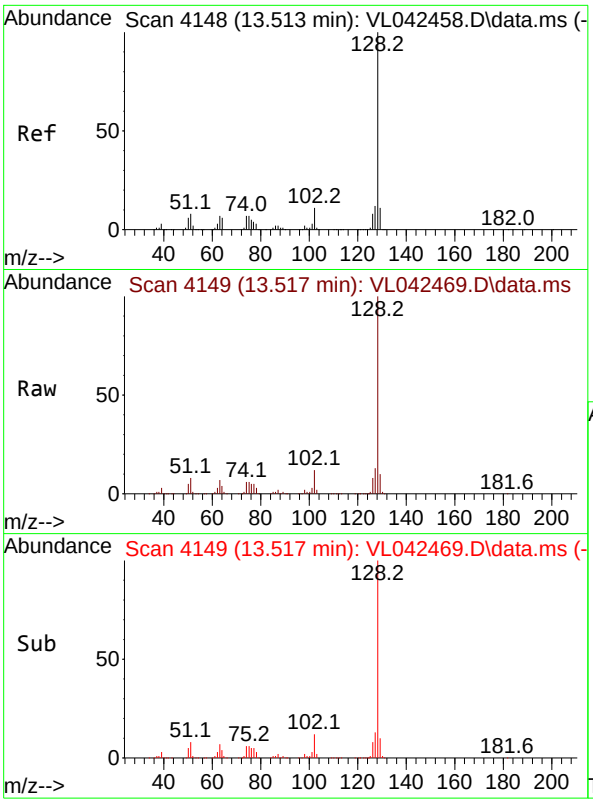


#78
Hexachloro-1,3-Butadiene
Concen: 8.913 ppbv
RT: 13.885 min Scan# 4263
Delta R.T. 0.007 min
Lab File: VL042469.D
Acq: 05 May 2025 08:29

Tgt Ion:225 Resp: 154431

Ion	Ratio	Lower	Upper
225	100		
223	62.9	50.2	75.4
227	64.6	51.2	76.8

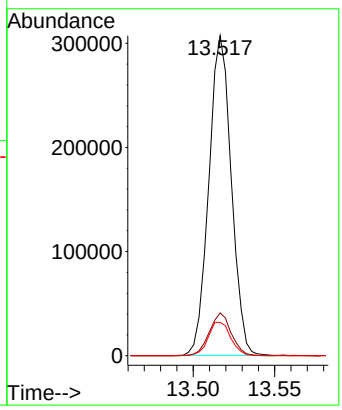




#79
Naphthalene
Concen: 10.970 ppbv
RT: 13.517 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL042469.D
Acq: 05 May 2025 08:29

Tgt Ion:128 Resp: 29406

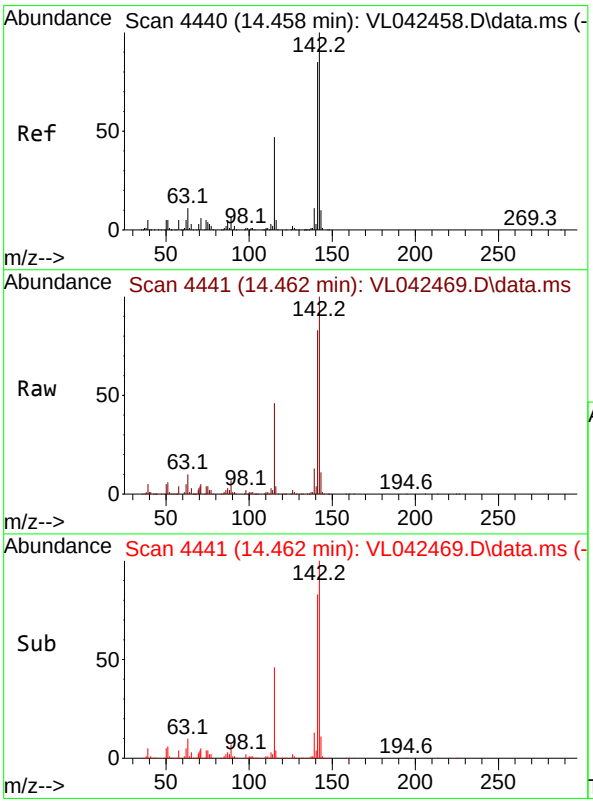
Ion	Ratio	Lower	Upper
128	100		
127	13.4	9.7	14.5
129	10.4	8.6	13.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

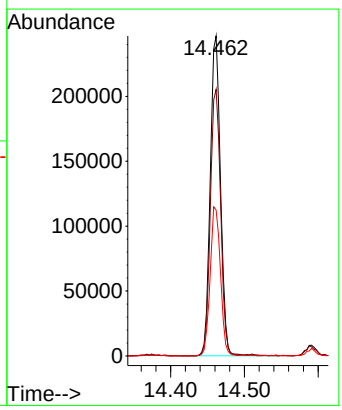
Reviewed By :Semsettin Yesilyurt 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

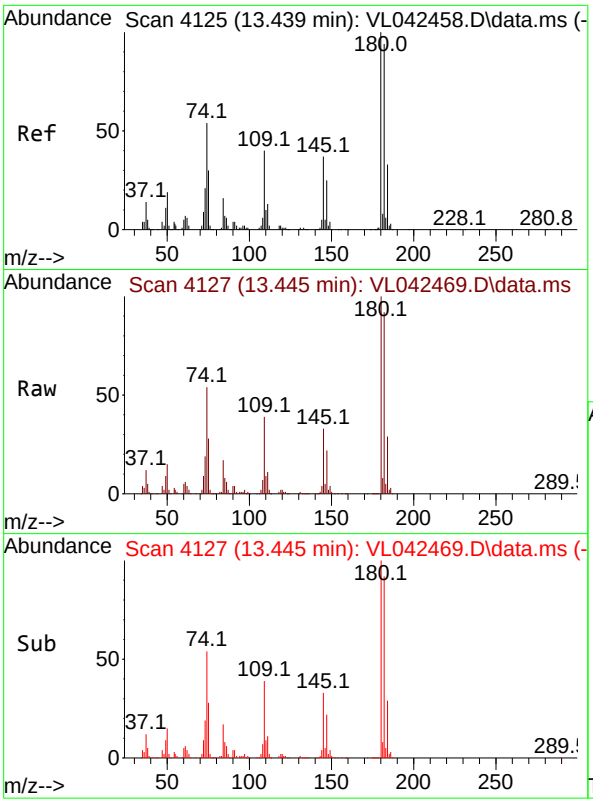


#80
Naphthalene,2-methyl-
Concen: 11.873 ppbv
RT: 14.462 min Scan# 4441
Delta R.T. 0.003 min
Lab File: VL042469.D
Acq: 05 May 2025 08:29

Tgt Ion:142 Resp: 236563

Ion	Ratio	Lower	Upper
142	100		
141	84.5	67.4	101.0
115	47.4	36.9	55.3

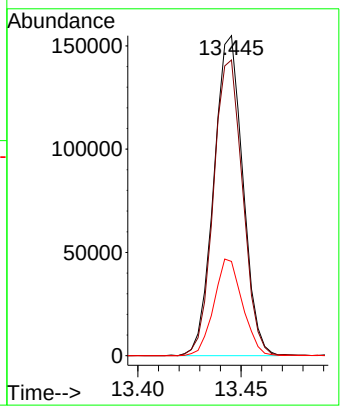




#81
1,2,4-Trichlorobenzene
Concen: 10.580 ppbv
RT: 13.445 min Scan# 4
Delta R.T. 0.007 min
Lab File: VL042469.D
Acq: 05 May 2025 08:29

Tgt Ion:180 Resp: 15125

Ion	Ratio	Lower	Upper
180	100		
182	93.2	74.6	111.8
184	29.8	24.9	37.3



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050525\
Data File : VL042469.D
Acq On : 05 May 2025 08:29
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
LabSampleId :
VSTDCCC010

Quant Time: May 06 01:38:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri May 02 03:16:31 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	105	0.00
2	T	Dichlorodifluoromethane	1.655	1.672	-1.0	119	0.00
3		Chlorodifluoromethane	1.750	1.642	6.2	110	0.00
4		Chloromethane	0.692	0.663	4.2	111	0.00
5	T	Vinyl Chloride	0.696	0.623	10.5	115	0.00
6	T	Bromomethane	0.329	0.350	-6.4	129	0.00
7		Chloroethane	0.257	0.258	-0.4	117	0.00
8	T	Dichlorotetrafluoroethane	1.364	1.393	-2.1	118	0.00
9	T	Propene	0.572	0.530	7.3	106	0.00
10	T	Heptane	1.484	1.463	1.4	106	0.00
11	T	Trichlorofluoromethane	1.527	1.574	-3.1	120	0.00
12	T	1,1,2-Trichlorotrifluoroeth	1.219	1.241	-1.8	118	0.00
13		Ethanol	0.116	0.081	30.2#	106	0.00
14	T	Bromoethene	0.450	0.453	-0.7	119	0.00
15	T	Acetone	1.826	1.482	18.8	118	0.00
16	T	1,3-Butadiene	0.805	0.760	5.6	117	0.00
17		tert-Butyl alcohol	1.608	1.660	-3.2	117	0.00
18	T	1,1-Dichloroethene	0.569	0.565	0.7	120	0.00
19	T	Isopropyl Alcohol	1.010	0.976	3.4	117	0.00
20	T	Methylene Chloride	0.549	0.485	11.7	113	0.00
21	T	Allyl Chloride	1.174	1.165	0.8	113	0.00
22	T	trans-1,2-Dichloroethene	0.665	0.630	5.3	120	0.00
23	T	Vinyl Acetate	1.742	1.795	-3.0	109	0.00
24	T	1,1-Dichloroethane	1.357	1.305	3.8	114	0.00
25	T	Ethyl Acetate	2.923	2.834	3.0	105	0.00
26	T	Hexane	1.273	1.273	0.0	110	0.00
27	T	Carbon Disulfide	1.486	1.615	-8.7	119	0.00
28	T	Methyl tert-Butyl Ether	0.765	0.722	5.6	113	0.00
29	T	Chloroform	2.386	2.324	2.6	111	0.00
30	T	Cyclohexane	1.065	1.051	1.3	105	0.00
31	T	cis-1,2-Dichloroethene	1.486	1.435	3.4	112	0.00
32	T	1,1,1-Trichloroethane	2.589	2.470	4.6	113	0.00
33	I	1,4-Difluorobenzene	1.000	1.000	0.0	103	0.00
34	T	2-Butanone	0.723	0.649	10.2	102	0.00
35	T	Carbon Tetrachloride	0.908	0.919	-1.2	115	0.00
36	T	Benzene	0.944	0.928	1.7	107	0.00
37	T	1,2-Dichloroethane	0.727	0.706	2.9	110	0.00
38	T	Trichloroethene	0.360	0.369	-2.5	110	0.00
39	T	1,2-Dichloropropane	0.353	0.324	8.2	106	0.00
40	T	1,4-Dioxane	0.165	0.143	13.3	98	0.00
41	T	Tetrahydrofuran	0.344	0.318	7.6	101	0.00
42	T	Bromodichloromethane	0.889	0.920	-3.5	113	0.00
43		Methyl Methacrylate	0.352	0.367	-4.3	104	0.00
44	T	2,2,4-Trimethylpentane	1.530	1.505	1.6	108	0.00
45	T	t-1,3-Dichloropropene	0.462	0.507	-9.7	109	0.00
46	T	cis-1,3-Dichloropropene	0.549	0.567	-3.3	105	0.00
47	T	1,1,2-Trichloroethane	0.387	0.374	3.4	108	0.00
48	T	Dibromochloromethane	0.654	0.690	-5.5	113	0.00

Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050525\
Data File : VL042469.D
Acq On : 05 May 2025 08:29
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
LabSampleId :
VSTDCCC010

Quant Time: May 06 01:38:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri May 02 03:16:31 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	0.571	-4.0	112	0.00
50	T	4-Methyl-2-Pentanone	0.915	0.881	3.7	104	0.00
51	T	2-Hexanone	0.731	0.710	2.9	102	0.00
52	T	Tetrachloroethene	0.359	0.325	9.5	110	0.00
53	T	Toluene	0.999	1.063	-6.4	108	0.00
54	T	1,2-Dibromoethane	0.592	0.577	2.5	108	0.00
55	I	Chlorobenzene-d5	1.000	1.000	0.0	104	0.00
56		1,1,1,2-Tetrachloroethane	0.591	0.587	0.7	113	0.00
57	T	Chlorobenzene	1.005	0.933	7.2	107	0.00
58	T	Ethyl Benzene	1.671	1.752	-4.8	106	0.00
59	T	m/p-Xylene	1.401	1.496	-6.8	109	0.03
60	T	o-Xylene	1.403	1.480	-5.5	108	0.00
61	T	Styrene	0.523	0.584	-11.7	104	0.00
62		Isopropylbenzene	2.023	2.132	-5.4	109	0.00
63	T	1,1,2,2-Tetrachloroethane	0.967	0.884	8.6	109	0.00
64		n-propylbenzene	0.495	0.516	-4.2	111	0.00
65		tert-Butylbenzene	1.806	1.929	-6.8	110	0.00
66	T	Benzyl Chloride	0.209	0.277	-32.5#	124	0.00
67		sec-Butylbenzene	2.566	2.712	-5.7	111	0.00
68	S	1-Bromo-4-Fluorobenzene	0.927	0.947	-2.2	103	0.00
69		p-Isopropyltoluene	2.162	2.305	-6.6	111	0.00
70		n-Butylbenzene	2.235	2.360	-5.6	112	0.00
71		2-Chlorotoluene	1.587	1.667	-5.0	108	0.00
72	T	4-Ethyltoluene	1.654	1.803	-9.0	109	0.00
73	T	1,3,5-Trimethylbenzene	1.455	1.570	-7.9	111	0.00
74	T	1,2,4-Trimethylbenzene	1.760	1.770	-0.6	112	0.00
75	T	1,3-Dichlorobenzene	0.980	0.950	3.1	110	0.00
76	T	1,4-Dichlorobenzene	0.927	0.980	-5.7	112	0.00
77	T	1,2-Dichlorobenzene	0.959	0.926	3.4	111	0.00
78	T	Hexachloro-1,3-Butadiene	0.958	0.853	11.0	115	0.00
79	T	Naphthalene	1.482	1.625	-9.6	111	0.00
80	T	Naphthalene,2-methyl-	1.101	1.307	-18.7	116	0.00
81	T	1,2,4-Trichlorobenzene	0.790	0.836	-5.8	112	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

QC SAMPLE DATA

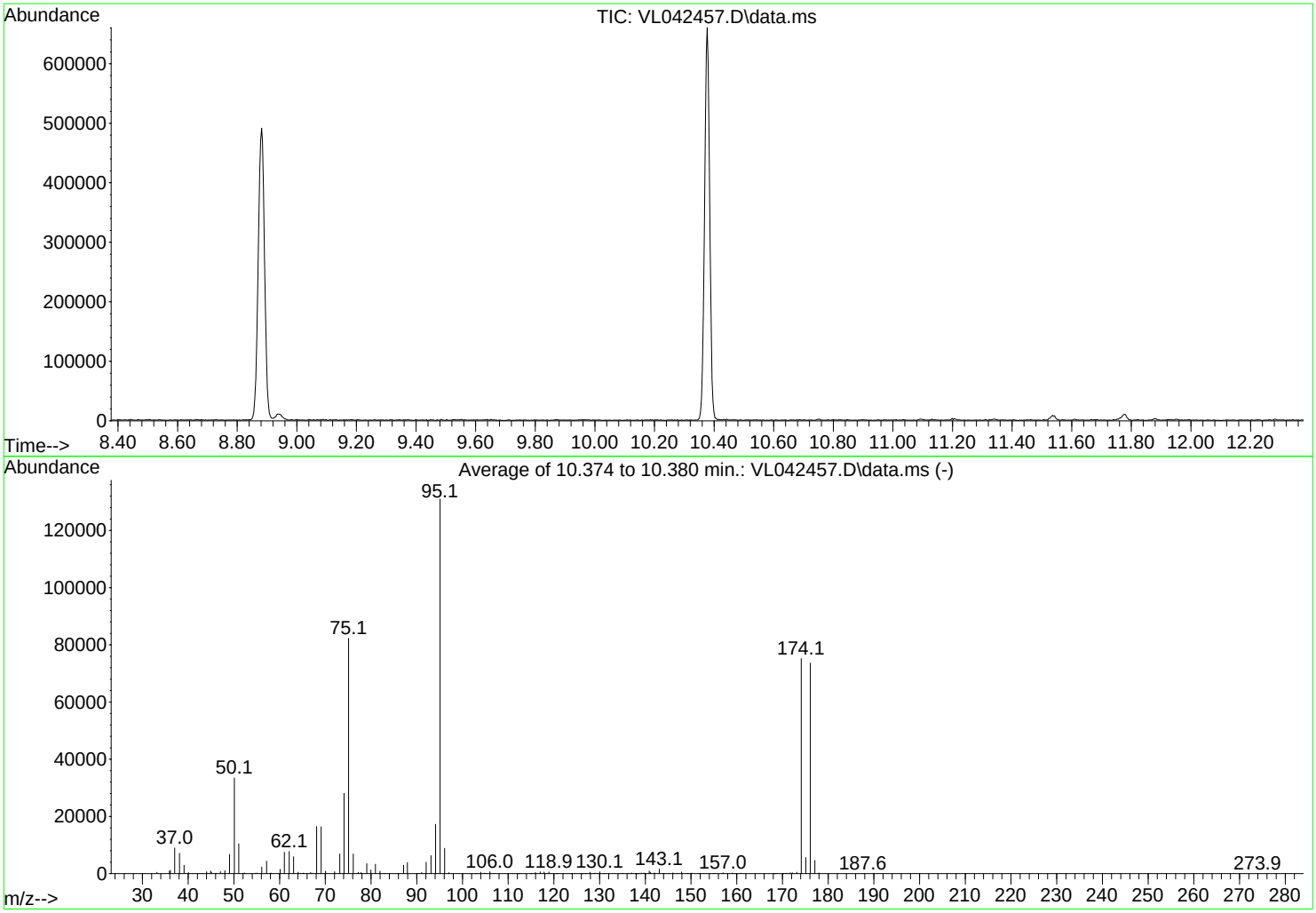
BFB

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050125\
Data File : VL042457.D
Acq On : 01 May 2025 08:19
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\VL050125AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
Last Update : Fri May 02 03:16:31 2025



AutoFind: Scans 3178, 3179, 3180; Background Corrected with Scan 3165

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	25.5	33424	PASS
75	95	30	66	62.8	82325	PASS
95	95	100	100	100.0	131013	PASS
96	95	5	9	6.8	8845	PASS
173	174	0.00	2	0.6	483	PASS
174	95	50	120	57.4	75195	PASS
175	174	4	9	7.5	5628	PASS
176	174	93	101	97.9	73643	PASS
177	176	5	9	6.3	4652	PASS

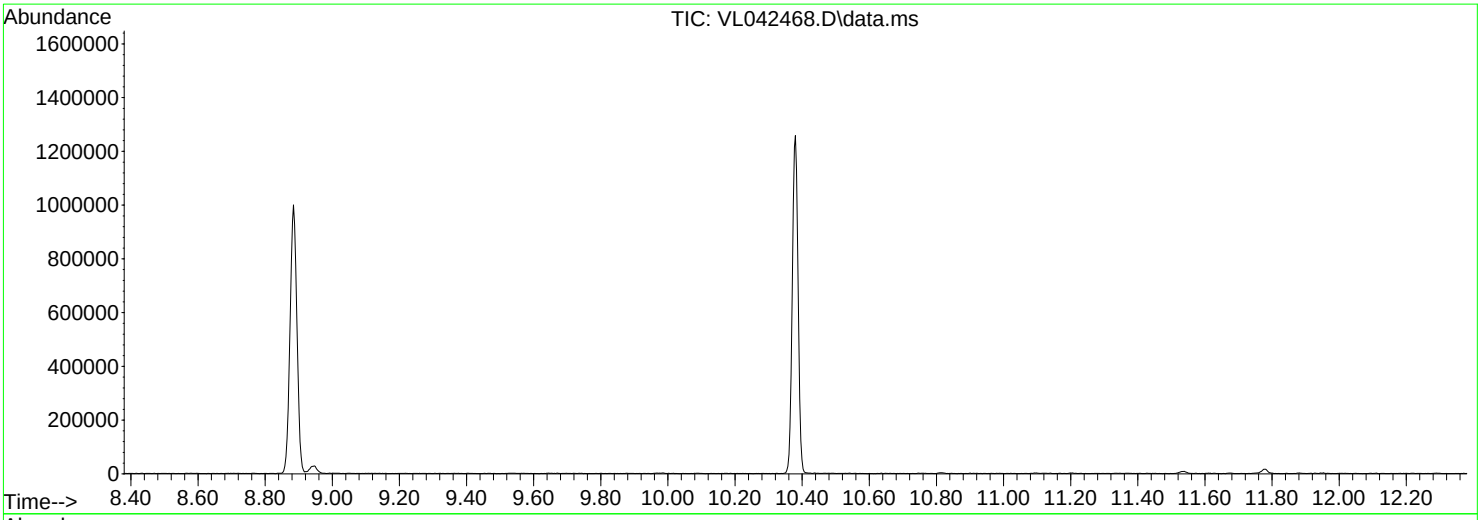
BFB

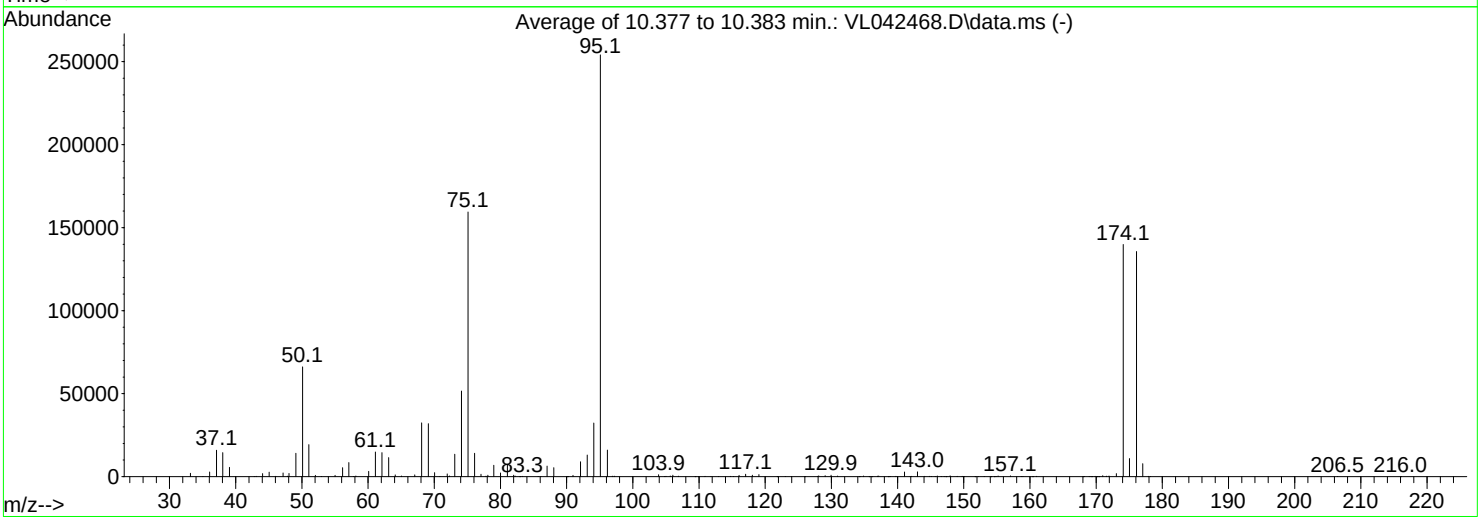
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050525\
Data File : VL042468.D
Acq On : 05 May 2025 07:45
Operator : SY/MD
Sample : BFB
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
Last Update : Fri May 02 03:16:31 2025





AutoFind: Scans 3179, 3180, 3181; 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	26.0	66184	PASS
75	95	30	66	62.7	159424	PASS
95	95	100	100	100.0	254123	PASS
96	95	5	9	6.3	15968	PASS
173	174	0.00	2	1.3	1836	PASS
174	95	50	120	55.0	139883	PASS
175	174	4	9	7.8	10890	PASS
176	174	93	101	97.0	135672	PASS
177	176	5	9	5.8	7826	PASS

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

Report of Analysis

Client:	Tetra Tech, EMI	Date Collected:	
Project:	R36900	Date Received:	
Client Sample ID:	VL0505ABL01	SDG No.:	Q1927
Lab Sample ID:	VL0505ABL01	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
VL042470.D	1		05/05/25 09:19	VL050525

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

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

Report of Analysis

Client:	Tetra Tech, EMI	Date Collected:	
Project:	R36900	Date Received:	
Client Sample ID:	VL0505ABL01	SDG No.:	Q1927
Lab Sample ID:	VL0505ABL01	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
VL042470.D	1		05/05/25 09:19	VL050525

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	0.50	4.26	U	0.60	4.26	ug/m3
106-93-4	1,2-Dibromoethane	0.10	0.77	U	0.54	0.77	ug/m3
127-18-4	Tetrachloroethene	0.030	0.20	U	0.14	0.20	ug/m3
108-90-7	Chlorobenzene	0.50	2.30	U	0.37	2.30	ug/m3
100-41-4	Ethyl Benzene	0.50	2.17	U	0.52	2.17	ug/m3
179601-23-1	m/p-Xylene	1.00	4.34	U	0.91	4.34	ug/m3
95-47-6	o-Xylene	0.50	2.17	U	0.52	2.17	ug/m3
100-42-5	Styrene	0.50	2.13	U	0.47	2.13	ug/m3
75-25-2	Bromoform	0.50	5.17	U	0.62	5.17	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	0.030	0.21	U	0.070	0.21	ug/m3
95-49-8	2-Chlorotoluene	0.50	2.59	U	0.57	2.59	ug/m3
108-67-8	1,3,5-Trimethylbenzene	0.50	2.46	U	0.54	2.46	ug/m3
95-63-6	1,2,4-Trimethylbenzene	0.50	2.46	U	0.39	2.46	ug/m3
541-73-1	1,3-Dichlorobenzene	0.50	3.01	U	0.48	3.01	ug/m3
106-46-7	1,4-Dichlorobenzene	0.50	3.01	U	0.30	3.01	ug/m3
95-50-1	1,2-Dichlorobenzene	0.50	3.01	U	0.48	3.01	ug/m3
120-82-1	1,2,4-Trichlorobenzene	0.50	3.71	U	0.67	3.71	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	0.50	5.33	U	0.96	5.33	ug/m3
106-99-0	1,3-Butadiene	0.50	1.11	U	0.29	1.11	ug/m3
91-20-3	Naphthalene	0.10	0.52	U	0.42	0.52	ug/m3
622-96-8	4-Ethyltoluene	0.50	2.46	U	0.59	2.46	ug/m3
110-54-3	Hexane	0.50	1.76	U	0.39	1.76	ug/m3
107-05-1	Allyl Chloride	0.50	1.57	U	0.47	1.57	ug/m3
123-91-1	1,4-Dioxane	0.50	1.80	U	0.76	1.80	ug/m3
80-62-6	Methyl Methacrylate	0.50	2.05	U	0.37	2.05	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	9.80			65 - 135	98%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	74800		2.787			
540-36-3	1,4-Difluorobenzene	209000		3.959			
3114-55-4	Chlorobenzene-d5	178000		8.881			

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

Report of Analysis

Client:	Tetra Tech, EMI	Date Collected:	
Project:	R36900	Date Received:	
Client Sample ID:	VL0505ABL01	SDG No.:	Q1927
Lab Sample ID:	VL0505ABL01	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
VL042470.D	1		05/05/25 09:19	VL050525

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\VL050525\
Data File : VL042470.D
Acq On : 05 May 2025 09:19
Operator : SY/MD
Sample : VL0505ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0505ABL01

Quant Time: May 06 01:38:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri May 02 03:16:31 2025
Response via : Initial Calibration

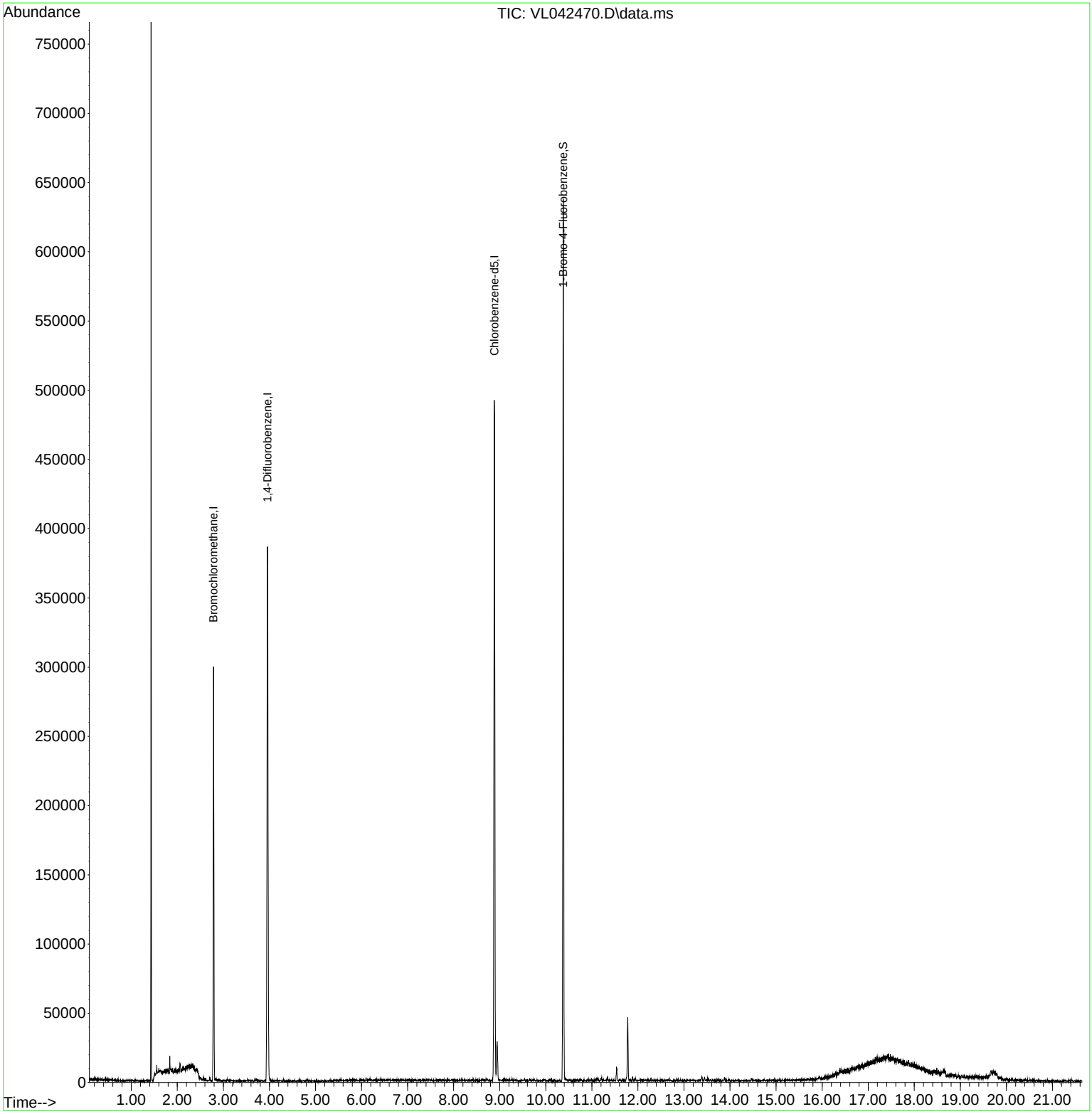
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.787	49	74757	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	208518	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.881	117	177829	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	161047	9.768	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 97.700%			
Target Compounds						Qvalue

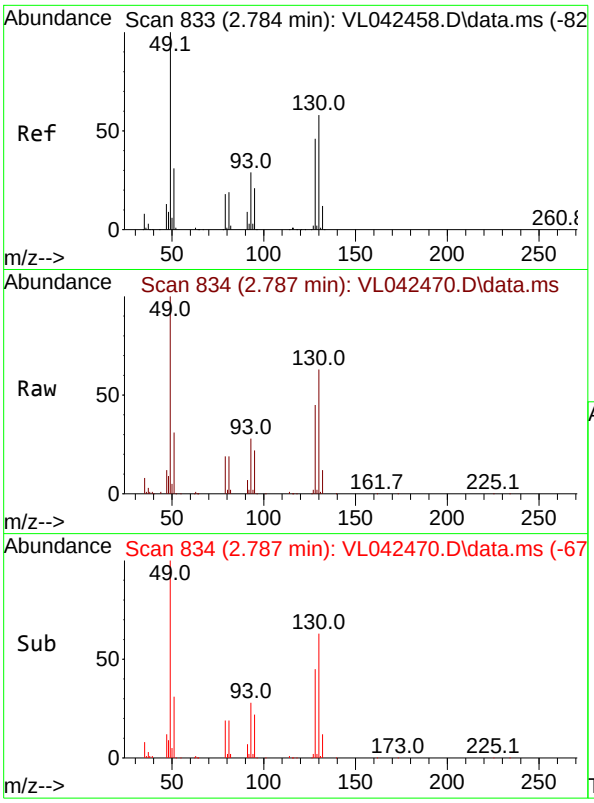
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050525\
Data File : VL042470.D
Acq On : 05 May 2025 09:19
Operator : SY/MD
Sample : VL0505ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0505ABL01

Quant Time: May 06 01:38:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri May 02 03:16:31 2025
Response via : Initial Calibration



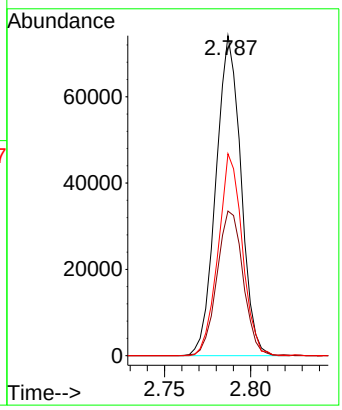


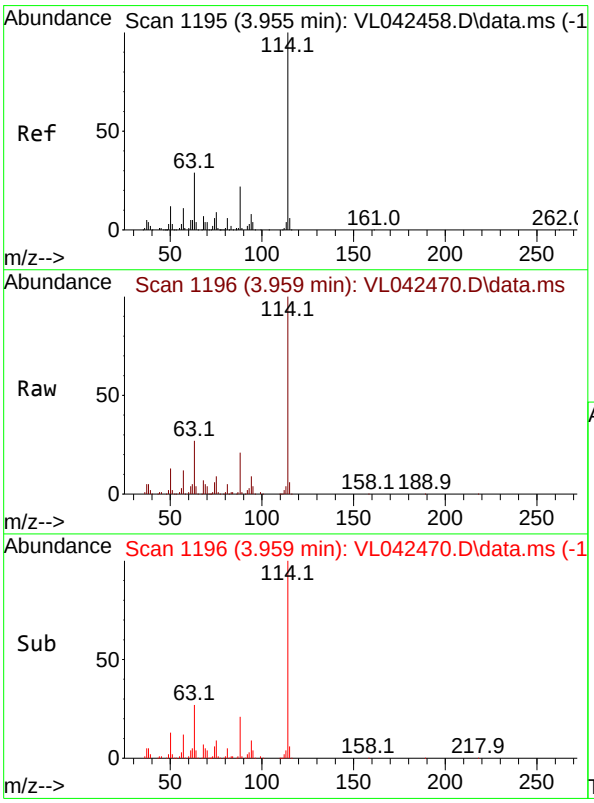
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042470.D
Acq: 05 May 2025 09:19

Instrument :
MSVOA_L
ClientSampleId :
VL0505ABL01

Tgt Ion: 49 Resp: 74757

Ion	Ratio	Lower	Upper
49	100		
128	47.4	23.3	69.9
130	61.2	29.5	88.6

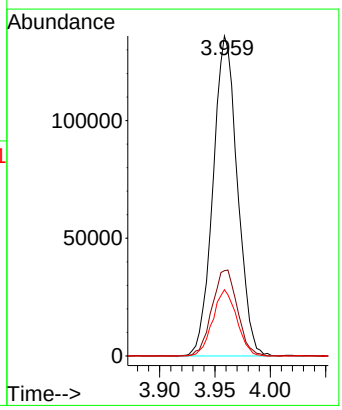


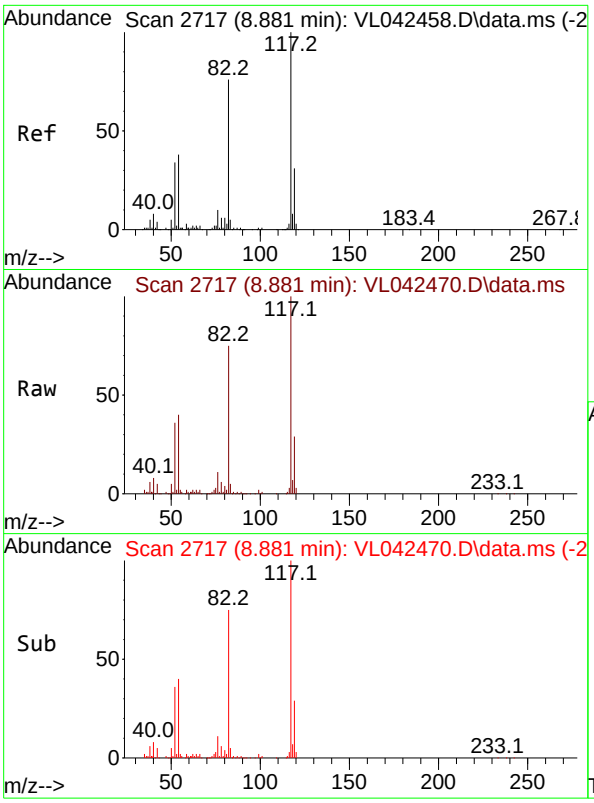


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.959 min Scan# 1196
Delta R.T. 0.003 min
Lab File: VL042470.D
Acq: 05 May 2025 09:19

Tgt Ion:114 Resp: 208518

Ion	Ratio	Lower	Upper
114	100		
63	28.0	23.1	34.7
88	20.4	16.1	24.1



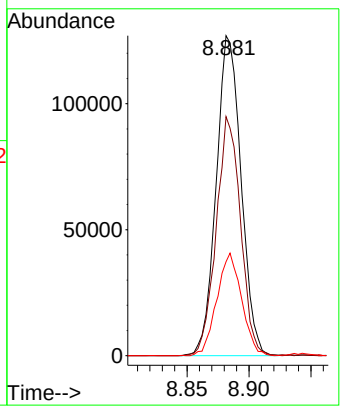


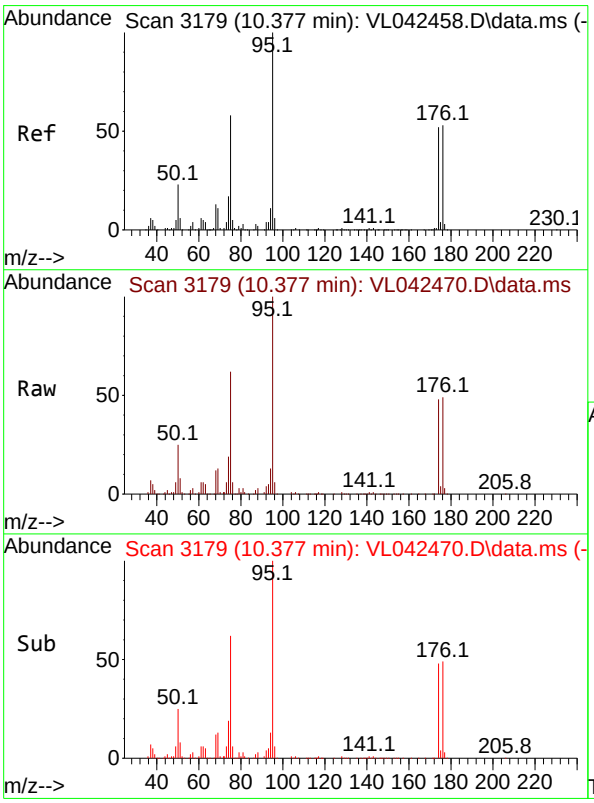
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.881 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL042470.D
Acq: 05 May 2025 09:19

Instrument :
MSVOA_L
ClientSampleId :
VL0505ABL01

Tgt Ion:117 Resp: 177829

Ion	Ratio	Lower	Upper
117	100		
82	73.0	63.5	95.3
119	31.9	25.8	38.8

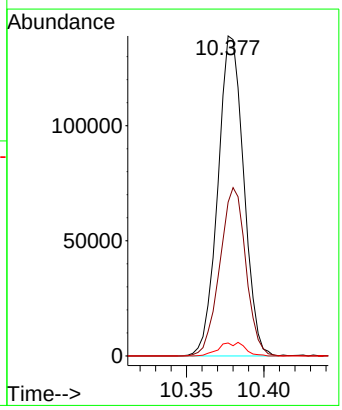




#68
1-Bromo-4-Fluorobenzene
Concen: 9.768 ppbv
RT: 10.377 min Scan# 3179
Delta R.T. -0.000 min
Lab File: VL042470.D
Acq: 05 May 2025 09:19

Tgt Ion: 95 Resp: 161047

Ion	Ratio	Lower	Upper
95	100		
174	53.1	42.7	64.1
175	4.3	3.6	5.4



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

Report of Analysis

Client:	Tetra Tech, EMI	Date Collected:	
Project:	R36900	Date Received:	
Client Sample ID:	VL0505ABS01	SDG No.:	Q1927
Lab Sample ID:	VL0505ABS01	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
VL042471.D	1		05/05/25 10:07	VL050525

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	10.3	50.9		1.04	2.47	ug/m3
74-87-3	Chloromethane	9.60	19.8		0.21	1.03	ug/m3
75-01-4	Vinyl Chloride	9.50	24.3		0.030	0.080	ug/m3
74-83-9	Bromomethane	10.0	38.8		0.54	1.94	ug/m3
75-00-3	Chloroethane	10.1	26.6		0.45	1.32	ug/m3
109-99-9	Tetrahydrofuran	9.40	27.7		0.38	1.47	ug/m3
75-69-4	Trichlorofluoromethane	10.4	58.4		0.90	2.81	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	10.2	78.2		1.23	3.83	ug/m3
76-14-2	Dichlorotetrafluoroethane	10.3	72.0		0.63	3.49	ug/m3
75-65-0	tert-Butyl alcohol	10.0	30.3		0.58	1.52	ug/m3
142-82-5	Heptane	9.70	39.8		0.45	2.05	ug/m3
75-35-4	1,1-Dichloroethene	9.90	39.3		0.56	1.98	ug/m3
67-64-1	Acetone	8.00	19.0		0.57	1.19	ug/m3
75-15-0	Carbon Disulfide	10.6	33.0		0.50	1.56	ug/m3
1634-04-4	Methyl tert-Butyl Ether	10.4	37.5		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	9.50	37.7		0.75	1.98	ug/m3
75-34-3	1,1-Dichloroethane	10.0	40.5		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	9.00	26.5		0.35	1.47	ug/m3
56-23-5	Carbon Tetrachloride	10.1	63.5		0.060	0.19	ug/m3
156-59-2	cis-1,2-Dichloroethene	9.60	38.1		0.36	1.98	ug/m3
67-66-3	Chloroform	9.70	47.4		0.39	2.44	ug/m3
71-55-6	1,1,1-Trichloroethane	9.60	52.4		0.050	0.16	ug/m3
540-84-1	2,2,4-Trimethylpentane	9.70	45.3		0.47	2.34	ug/m3
71-43-2	Benzene	9.70	31.0		0.29	1.60	ug/m3
107-06-2	1,2-Dichloroethane	9.70	39.3		0.36	2.02	ug/m3
79-01-6	Trichloroethene	10.0	53.7		0.11	0.16	ug/m3
78-87-5	1,2-Dichloropropane	9.20	42.5		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	9.40	38.5		0.37	2.05	ug/m3
108-88-3	Toluene	10.4	39.2		0.41	1.88	ug/m3
10061-02-6	t-1,3-Dichloropropene	10.8	49.0		0.27	2.27	ug/m3
10061-01-5	cis-1,3-Dichloropropene	10.3	46.8		0.27	2.27	ug/m3
79-00-5	1,1,2-Trichloroethane	9.60	52.4		0.38	2.73	ug/m3

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

Report of Analysis

Client:	Tetra Tech, EMI	Date Collected:	
Project:	R36900	Date Received:	
Client Sample ID:	VL0505ABS01	SDG No.:	Q1927
Lab Sample ID:	VL0505ABS01	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
VL042471.D	1		05/05/25 10:07	VL050525

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	10.3	87.8		0.60	4.26	ug/m3
106-93-4	1,2-Dibromoethane	9.60	73.8		0.54	0.77	ug/m3
127-18-4	Tetrachloroethene	9.10	61.7		0.14	0.20	ug/m3
108-90-7	Chlorobenzene	9.50	43.8		0.37	2.30	ug/m3
100-41-4	Ethyl Benzene	10.6	46.0		0.52	2.17	ug/m3
179601-23-1	m/p-Xylene	21.5	93.4		0.91	4.34	ug/m3
95-47-6	o-Xylene	10.8	46.9		0.52	2.17	ug/m3
100-42-5	Styrene	11.1	47.3		0.47	2.13	ug/m3
75-25-2	Bromoform	10.1	104		0.62	5.17	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	9.10	62.5		0.070	0.21	ug/m3
95-49-8	2-Chlorotoluene	10.7	55.4		0.57	2.59	ug/m3
108-67-8	1,3,5-Trimethylbenzene	10.9	53.6		0.54	2.46	ug/m3
95-63-6	1,2,4-Trimethylbenzene	10.1	49.6		0.39	2.46	ug/m3
541-73-1	1,3-Dichlorobenzene	10.0	60.1		0.48	3.01	ug/m3
106-46-7	1,4-Dichlorobenzene	10.7	64.3		0.30	3.01	ug/m3
95-50-1	1,2-Dichlorobenzene	9.80	58.9		0.48	3.01	ug/m3
120-82-1	1,2,4-Trichlorobenzene	10.5	77.9		0.67	3.71	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	9.00	96.0		0.96	5.33	ug/m3
106-99-0	1,3-Butadiene	9.70	21.5		0.29	1.11	ug/m3
91-20-3	Naphthalene	10.9	57.1		0.42	0.52	ug/m3
622-96-8	4-Ethyltoluene	11.2	55.1		0.59	2.46	ug/m3
110-54-3	Hexane	9.70	34.2		0.39	1.76	ug/m3
107-05-1	Allyl Chloride	9.90	31.0		0.47	1.57	ug/m3
123-91-1	1,4-Dioxane	9.20	33.2		0.76	1.80	ug/m3
80-62-6	Methyl Methacrylate	10.3	42.2		0.37	2.05	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	10.3			65 - 135	103%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	73100		2.787			
540-36-3	1,4-Difluorobenzene	206000		3.959			
3114-55-4	Chlorobenzene-d5	177000		8.885			

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

Report of Analysis

Client:	Tetra Tech, EMI	Date Collected:	
Project:	R36900	Date Received:	
Client Sample ID:	VL0505ABS01	SDG No.:	Q1927
Lab Sample ID:	VL0505ABS01	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
VL042471.D	1		05/05/25 10:07	VL050525

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\VL050525\
Data File : VL042471.D
Acq On : 05 May 2025 10:07
Operator : SY/MD
Sample : VL0505ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 06 01:39:20 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri May 02 03:16:31 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VL0505ABS01

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.787	49	73094	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	206118	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	177063	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	168649	10.273	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 102.700%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	124629	10.303	ppbv	97
3) Chlorodifluoromethane	1.476	51	121193	9.477	ppbv	100
4) Chloromethane	1.531	50	48459	9.585	ppbv	97
5) Vinyl Chloride	1.580	62	48263	9.482	ppbv	97
6) Bromomethane	1.667	94	24122	10.030	ppbv	89
7) Chloroethane	1.703	64	19046	10.134	ppbv	97
8) Dichlorotetrafluoroethane	1.554	85	103007	10.330	ppbv	99
9) Propene	1.483	41	38988	9.321	ppbv	99
10) Heptane	4.985	43	105620m	9.734	ppbv	
11) Trichlorofluoromethane	1.878	101	115696	10.365	ppbv	100
12) 1,1,2-Trichlorotrifluo...	2.140	101	90819	10.191	ppbv	99
13) Ethanol	1.722	45	5973	7.037	ppbv	99
14) Bromoethene	1.780	108	33388	10.148	ppbv	98
15) Acetone	1.835	43	106709	7.997	ppbv	99
16) 1,3-Butadiene	1.609	39	57359	9.746	ppbv	99
17) tert-Butyl alcohol	2.039	59	117319	9.980	ppbv	98
18) 1,1-Dichloroethene	2.033	96	41229	9.907	ppbv	98
19) Isopropyl Alcohol	1.887	45	70522	9.550	ppbv	100
20) Methylene Chloride	2.062	84	35706	8.901	ppbv	94
21) Allyl Chloride	2.094	41	84722	9.873	ppbv	98
22) trans-1,2-Dichloroethene	2.340	96	46305	9.528	ppbv	95
23) Vinyl Acetate	2.463	43	130023	10.210	ppbv #	97
24) 1,1-Dichloroethane	2.408	63	98989	9.984	ppbv	99
25) Ethyl Acetate	2.836	43	207844	9.728	ppbv	100
26) Hexane	2.826	57	90030	9.673	ppbv	98
27) Carbon Disulfide	2.149	76	115286	10.614	ppbv	94
28) Methyl tert-Butyl Ether	2.441	73	58319	10.429	ppbv	100
29) Chloroform	2.849	83	168484	9.660	ppbv	98
30) Cyclohexane	3.858	84	78428	10.078	ppbv	97
31) cis-1,2-Dichloroethene	2.722	61	104191	9.595	ppbv	97
32) 1,1,1-Trichloroethane	3.370	97	182273	9.632	ppbv	99
34) 2-Butanone	2.557	43	133597	8.961	ppbv	95
35) Carbon Tetrachloride	3.761	117	188916	10.090	ppbv	95
36) Benzene	3.661	78	188320	9.682	ppbv	97
37) 1,2-Dichloroethane	3.221	62	145347	9.695	ppbv	100
38) Trichloroethene	4.548	130	74307m	10.017	ppbv	
39) 1,2-Dichloropropane	4.315	63	66905	9.188	ppbv	88
40) 1,4-Dioxane	4.580	88	31401	9.209	ppbv #	100
41) Tetrahydrofuran	3.056	42	66257	9.351	ppbv	97
42) Bromodichloromethane	4.489	83	189214	10.330	ppbv	93
43) Methyl Methacrylate	4.881	69	74953	10.326	ppbv	97
44) 2,2,4-Trimethylpentane	4.642	57	307008	9.737	ppbv	99
45) t-1,3-Dichloropropene	6.415	75	103231	10.841	ppbv	98

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050525\
Data File : VL042471.D
Acq On : 05 May 2025 10:07
Operator : SY/MD
Sample : VL0505ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 06 01:39:20 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Fri May 02 03:16:31 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VL0505ABS01

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) cis-1,3-Dichloropropene	5.603	75	116725	10.313	ppbv		95
47) 1,1,2-Trichloroethane	6.584	97	77049	9.648	ppbv	#	92
48) Dibromochloromethane	7.390	129	138518	10.274	ppbv		97
49) Bromoform	9.487	173	114364	10.115	ppbv		99
50) 4-Methyl-2-Pentanone	5.752	43	177898	9.433	ppbv		99
51) 2-Hexanone	7.438	43	145213	9.631	ppbv		98
52) Tetrachloroethene	8.228	164	67191	9.076	ppbv		86
53) Toluene	6.936	91	214815	10.434	ppbv		98
54) 1,2-Dibromoethane	7.655	107	117449	9.619	ppbv		97
56) 1,1,1,2-Tetrachloroethane	8.927	131	103494	9.897	ppbv		98
57) Chlorobenzene	8.924	112	168941	9.495	ppbv		94
58) Ethyl Benzene	9.357	91	312698	10.568	ppbv		96
59) m/p-Xylene	9.552	91	532663m	21.473	ppbv		
60) o-Xylene	9.966	91	267198	10.758	ppbv		100
61) Styrene	9.875	104	103232	11.138	ppbv		97
62) Isopropylbenzene	10.542	105	380840	10.630	ppbv		100
63) 1,1,2,2-Tetrachloroethane	9.966	83	155457	9.079	ppbv		100
64) n-propylbenzene	10.992	120	93814	10.714	ppbv		94
65) tert-Butylbenzene	11.532	119	342014	10.697	ppbv		97
66) Benzyl Chloride	11.620	91	45711	12.370	ppbv		98
67) sec-Butylbenzene	11.769	105	480000	10.565	ppbv		99
69) p-Isopropyltoluene	11.927	119	412889	10.786	ppbv		99
70) n-Butylbenzene	12.283	91	425652	10.756	ppbv		98
71) 2-Chlorotoluene	10.905	91	301813	10.741	ppbv		100
72) 4-Ethyltoluene	11.128	105	326835	11.161	ppbv		99
73) 1,3,5-Trimethylbenzene	11.206	105	280716	10.900	ppbv		97
74) 1,2,4-Trimethylbenzene	11.539	105	316052	10.143	ppbv		99
75) 1,3-Dichlorobenzene	11.610	146	174274	10.046	ppbv		97
76) 1,4-Dichlorobenzene	11.675	146	174860	10.651	ppbv		98
77) 1,2-Dichlorobenzene	11.950	146	166423	9.801	ppbv		99
78) Hexachloro-1,3-Butadiene	13.882	225	153156	9.032	ppbv		99
79) Naphthalene	13.513	128	286218	10.911	ppbv		97
80) Naphthalene,2-methyl-	14.458	142	232641	11.932	ppbv		99
81) 1,2,4-Trichlorobenzene	13.442	180	147081	10.513	ppbv		99

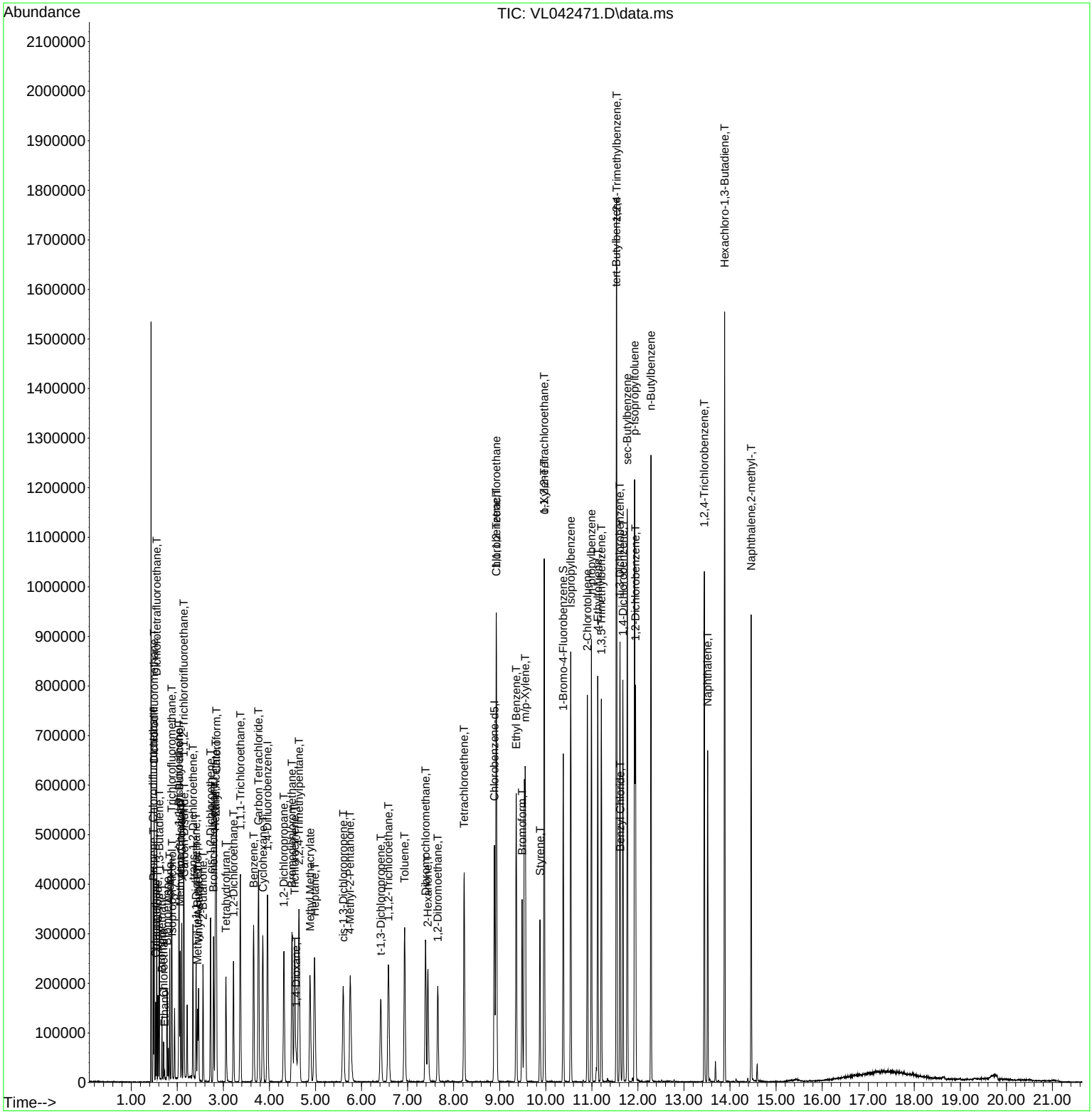
(#) = qualifier out of range (m) = manual integration (+) = signals summed

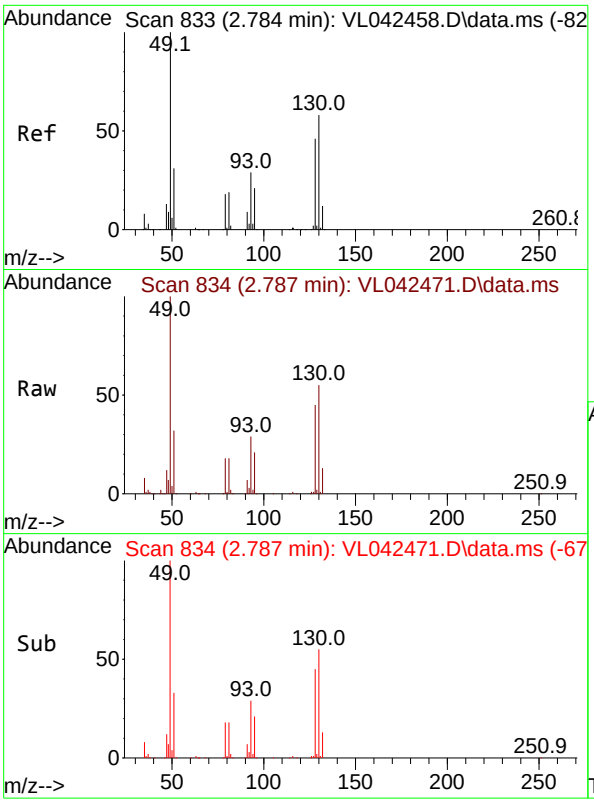
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050525\
Data File : VL042471.D
Acq On : 05 May 2025 10:07
Operator : SY/MD
Sample : VL0505ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 06 01:39:20 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri May 02 03:16:31 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VL0505ABS01

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

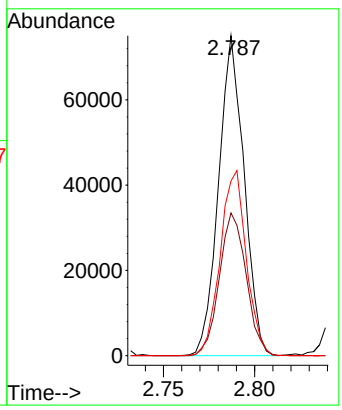

Abundance
TIC: VL042471.D\data.ms
Time-->
Hexachloro-1,3-Butadiene,T
Naphthalene,2-methyl-,T
1,2,4-Trichlorobenzene,T
Naphthalene,I
n-Butylbenzene
sec-Butylbenzene
p-Isopropyltoluene
1,2-Dichlorobenzene,T
1,4-Dichlorobenzene,T
Benzyl Chloride,T
1,2,4-Trimethylbenzene,T
tert-Butylbenzene
1,3,5-Trimethylbenzene
4-Ethyltoluene
2-Chlorotoluene
Isopropylbenzene
1-Bromo-4-Fluorobenzene,S
Styrene,T
Bromoform,T
Ethyl Benzene,T
m/p-Xylene,T
Chlorobenzene-d5,I
Tetrachloroethene,T
1,1,2,2-Tetrachloroethane,T
Toluene,T
1,1,2-Trichloroethane,T
t-1,3-Dichloropropene,T
1,2-Dibromoethane,T
2-Hexanone
Chlorodibromomethane,T
cis-1,3-Dichloropropene,T
4-Methyl-2-pentanone,T
Methyl Methacrylate
Heptane,T
1,2-Dichloropropane,T
Benzene,T
1,1,1-Trichloroethane,T
Tetrahydrofuran
Bromodichloromethane,T
Chloroform,T
Cyclohexane,T
Carbon Tetrachloride,T
1,1-Dichloroethene,T
Methylene Chloride,T
Trichlorofluoromethane,T
Ethanol,T
Acetone,T
Isopropyl Alcohol,T
Acetonitrile,T
Dichlorodifluoromethane,T
Propylene,T
Chloromethane,T
Dichlorotetrafluoroethane,T
Vinyl Chloride,T
1,3-Butadiene,T
Bromomethane,T
Chloroethane,T
Trichlorotrifluoroethane,T
Methyl tert-Butyl Ether,T
2-Butanone,T
Ethyl Acetate,T
Methyl Acetate,T
Diisopropyl Ether,T
Hexane,T
Vinyl Acetate,T
Ethyl tert-Butyl Ether,T
Tert-Amyl Methyl Ether,T
Methylcyclohexane,T
1,4-Dioxane,T
Ethyl Ether,T
Acrylonitrile,T
Methyl Isobutyl Ketone,T
Methyl Methacrylate,T
Chlorobenzene,T
Ethyl Acrylate,T
Methyl Methacrylate,T
Heptane



#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042471.D
Acq: 05 May 2025 10:07

Tgt Ion: 49 Resp: 7309

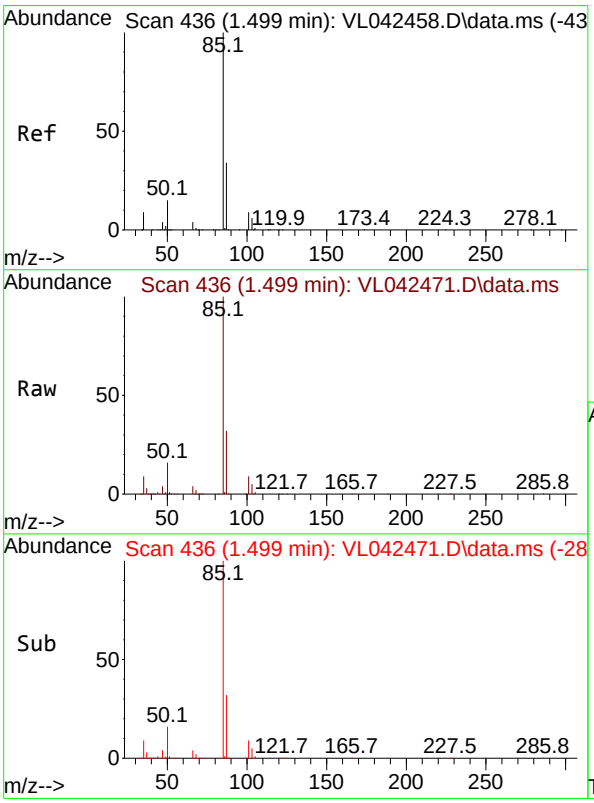
Ion	Ratio	Lower	Upper
49	100		
128	46.9	23.3	69.9
130	59.3	29.5	88.6



Instrument :
MSVOA_L
ClientSampleId :
VL0505ABS01

Manual Integrations
APPROVED

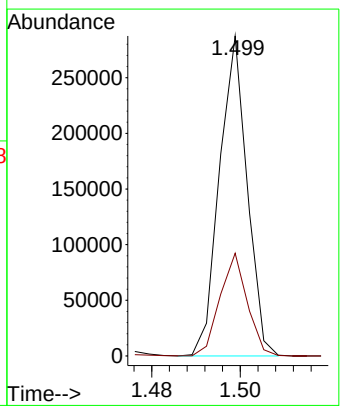
Reviewed By :Semsettin Yesilyurt 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

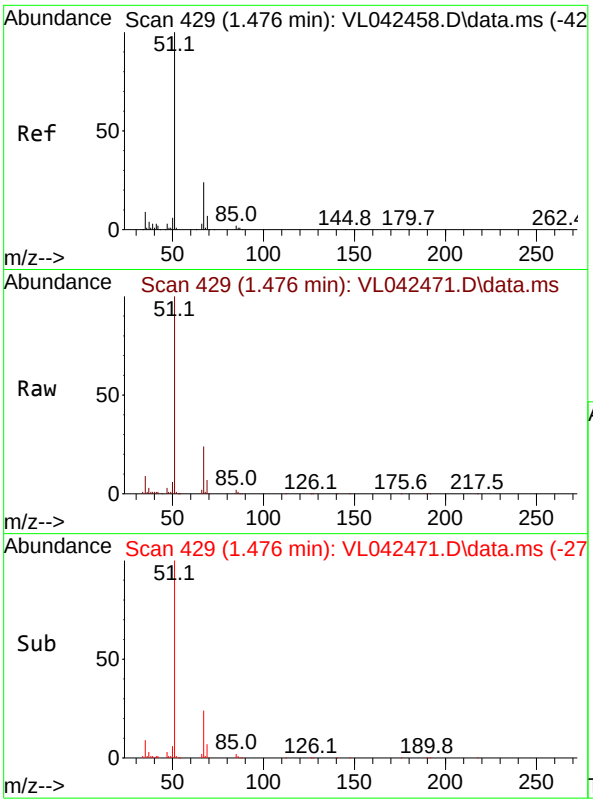


#2
Dichlorodifluoromethane
Concen: 10.303 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.000 min
Lab File: VL042471.D
Acq: 05 May 2025 10:07

Tgt Ion: 85 Resp: 124629

Ion	Ratio	Lower	Upper
85	100		
87	32.1	26.9	40.3

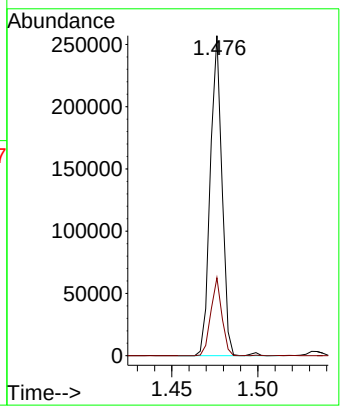




#3
Chlorodifluoromethane
Concen: 9.477 ppbv
RT: 1.476 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042471.D
Acq: 05 May 2025 10:07

Tgt Ion: 51 Resp: 12119

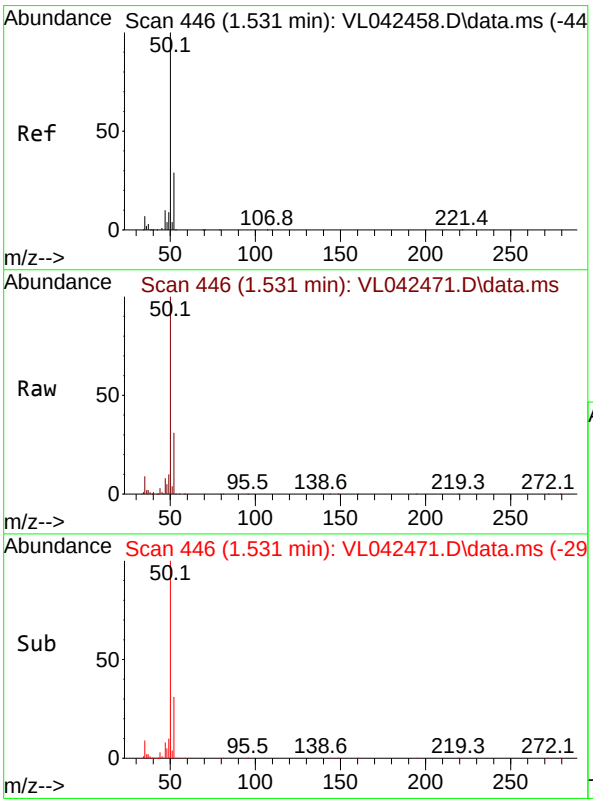
Ion	Ratio	Lower	Upper
51	100		
67	23.1	18.4	27.6



Instrument :
MSVOA_L
ClientSampleId :
VL0505ABS01

Manual Integrations
APPROVED

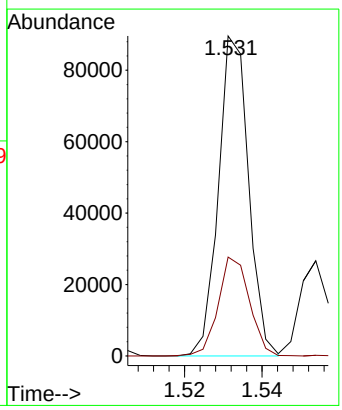
Reviewed By :Semsettin Yesilyurt 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

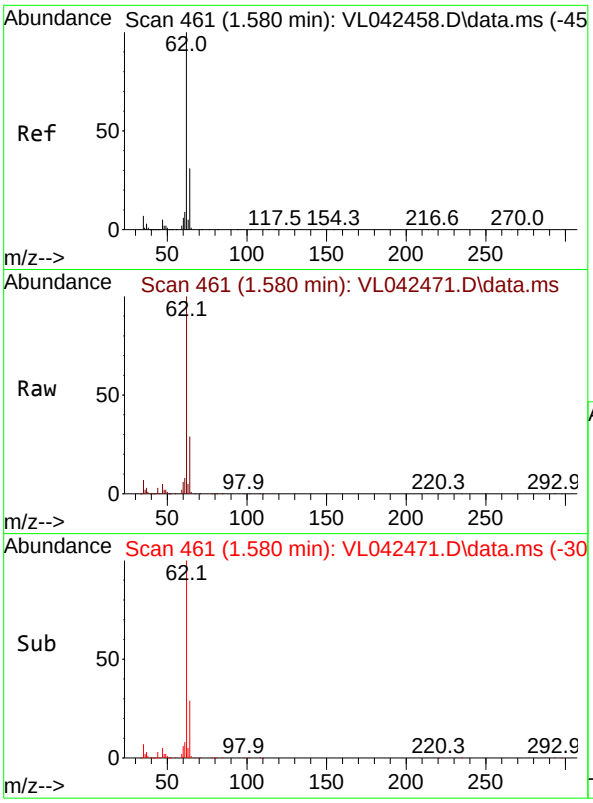


#4
Chloromethane
Concen: 9.585 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL042471.D
Acq: 05 May 2025 10:07

Tgt Ion: 50 Resp: 48459

Ion	Ratio	Lower	Upper
50	100		
52	30.8	23.5	35.3

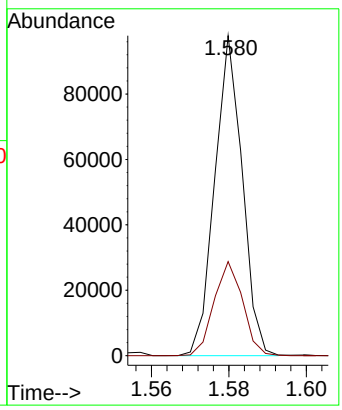




#5
Vinyl Chloride
Concen: 9.482 ppbv
RT: 1.580 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042471.D
Acq: 05 May 2025 10:07

Tgt Ion: 62 Resp: 4826

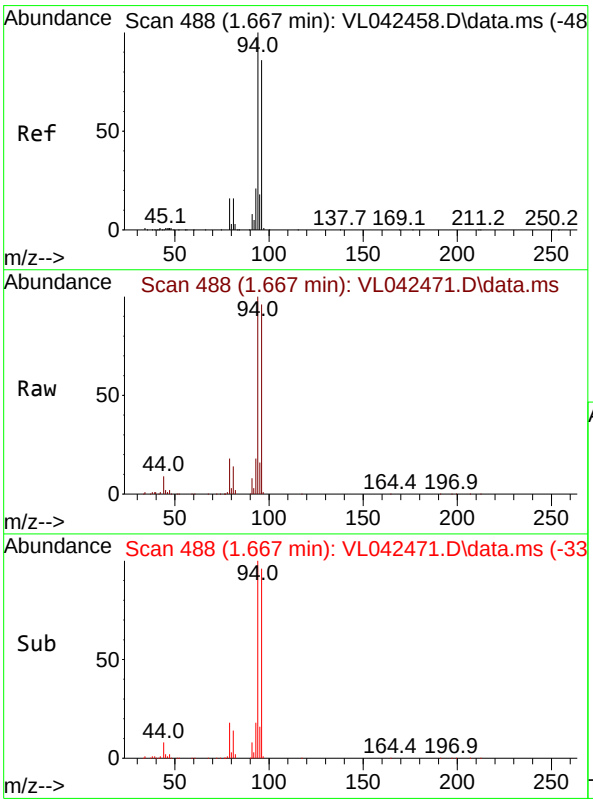
Ion	Ratio	Lower	Upper
62	100		
64	29.3	24.9	37.3



Instrument :
MSVOA_L
ClientSampleId :
VL0505ABS01

Manual Integrations
APPROVED

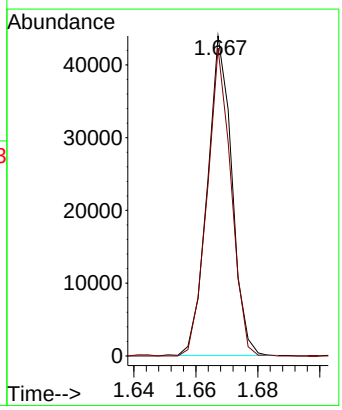
Reviewed By :Semsettin Yesilyurt 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

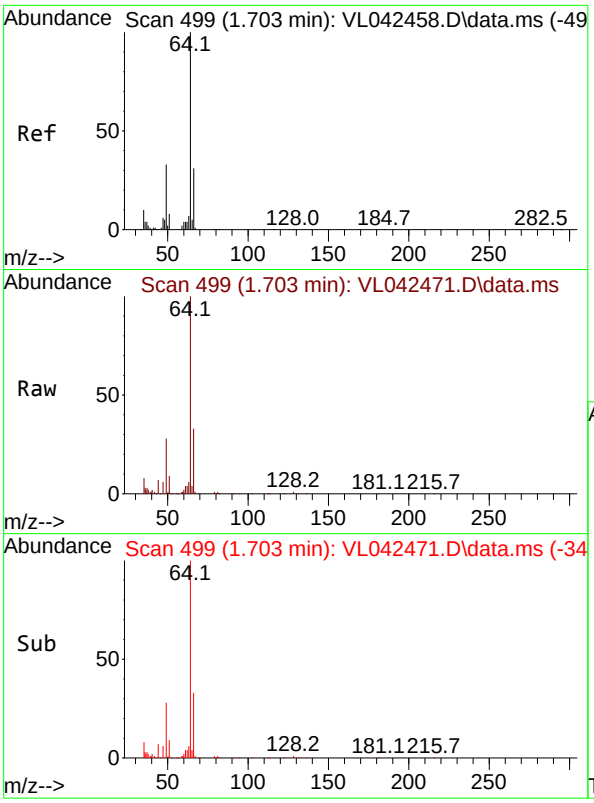


#6
Bromomethane
Concen: 10.030 ppbv
RT: 1.667 min Scan# 488
Delta R.T. 0.000 min
Lab File: VL042471.D
Acq: 05 May 2025 10:07

Tgt Ion: 94 Resp: 24122

Ion	Ratio	Lower	Upper
94	100		
96	96.4	68.8	103.2

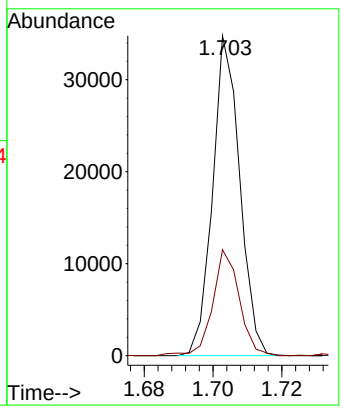




#7
Chloroethane
Concen: 10.134 ppbv
RT: 1.703 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042471.D
Acq: 05 May 2025 10:07

Tgt Ion: 64 Resp: 1904

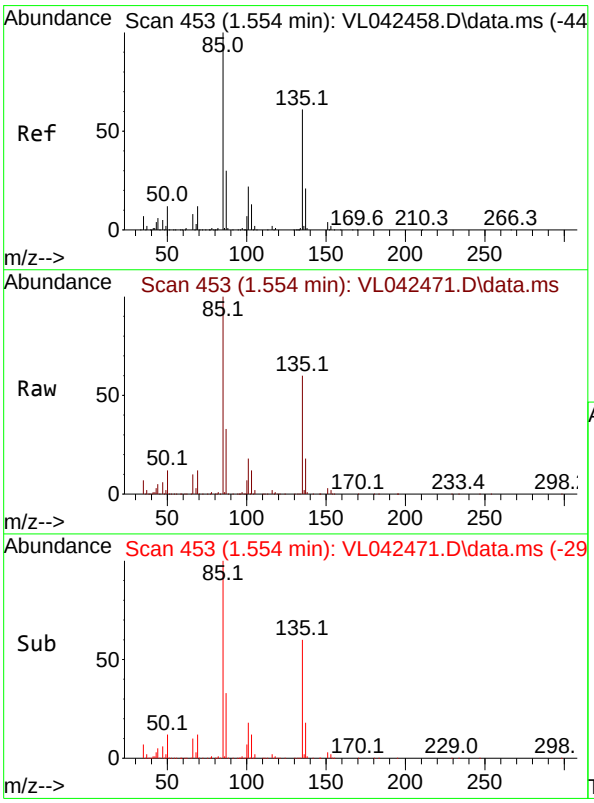
Ion	Ratio	Lower	Upper
64	100		
66	33.1	25.0	37.4



Instrument :
MSVOA_L
ClientSampleId :
VL0505ABS01

Manual Integrations
APPROVED

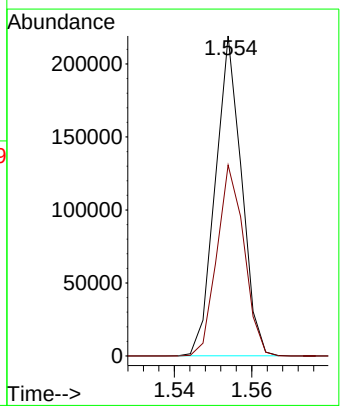
Reviewed By :Semsettin Yesilyurt 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

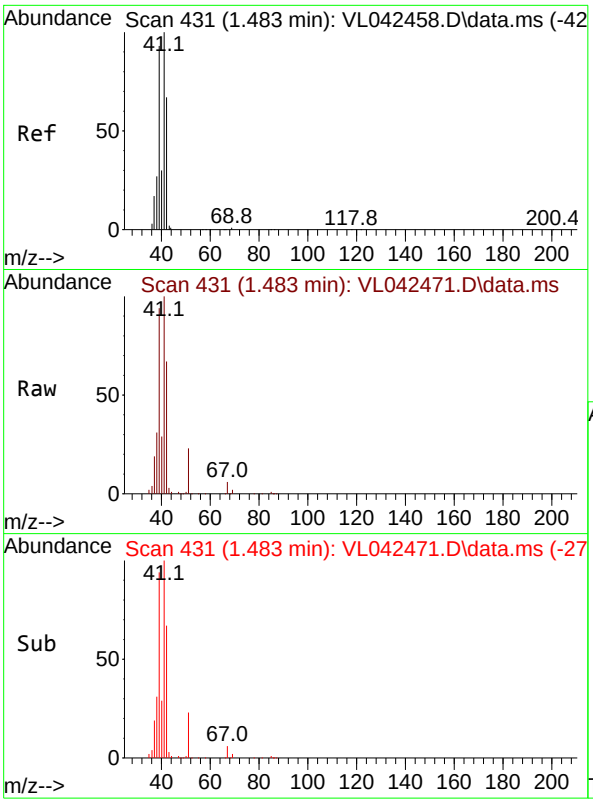


#8
Dichlorotetrafluoroethane
Concen: 10.330 ppbv
RT: 1.554 min Scan# 453
Delta R.T. 0.000 min
Lab File: VL042471.D
Acq: 05 May 2025 10:07

Tgt Ion: 85 Resp: 103007

Ion	Ratio	Lower	Upper
85	100		
135	61.9	49.8	74.8

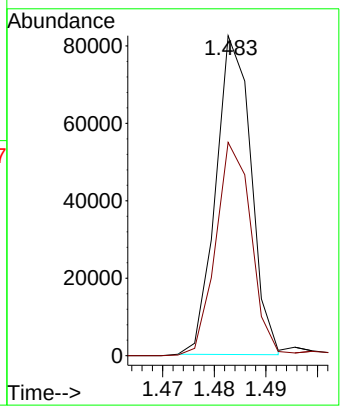




#9
Propene
Concen: 9.321 ppbv
RT: 1.483 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042471.D
Acq: 05 May 2025 10:07

Tgt Ion: 41 Resp: 3898

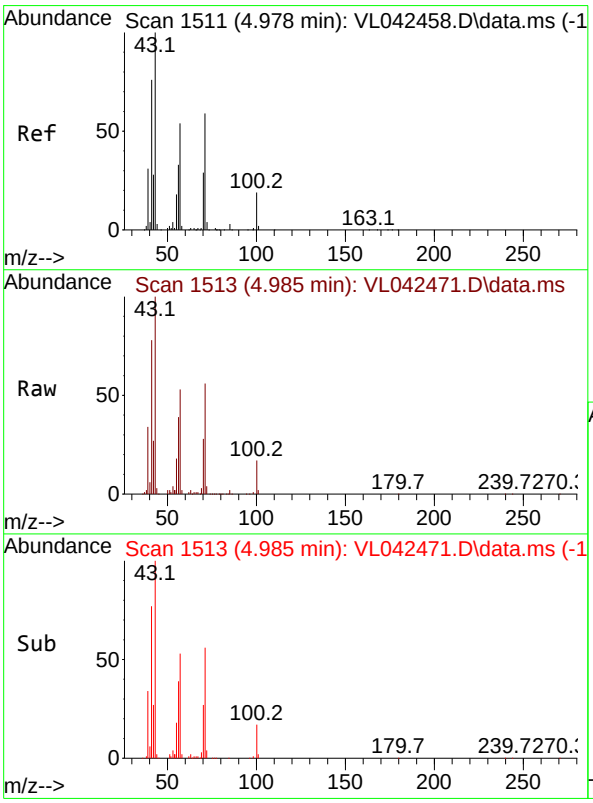
Ion	Ratio	Lower	Upper
41	100		
42	69.1	54.3	81.5



Instrument :
MSVOA_L
ClientSampleId :
VL0505ABS01

Manual Integrations
APPROVED

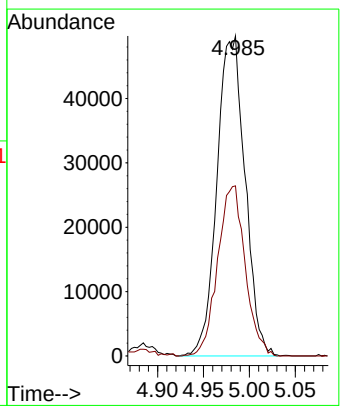
Reviewed By :Semsettin Yesilyurt 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

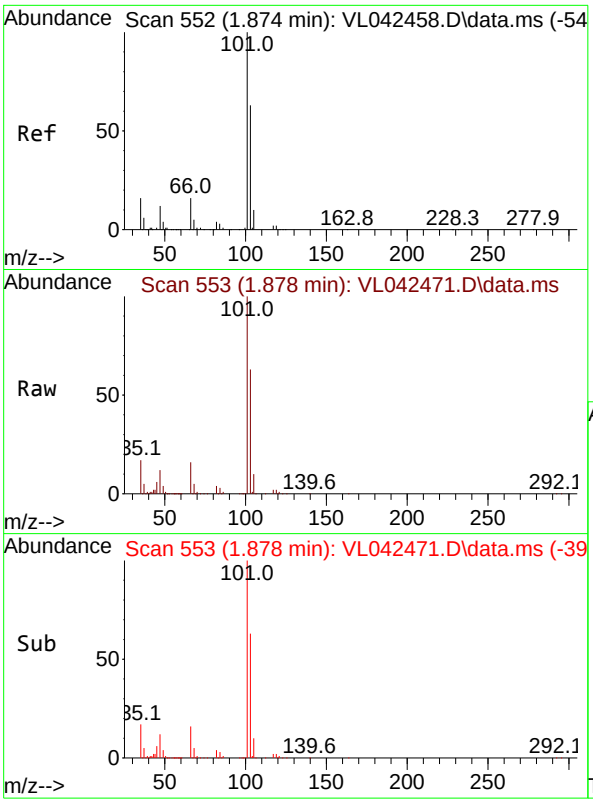


#10
Heptane
Concen: 9.734 ppbv m
RT: 4.985 min Scan# 1513
Delta R.T. 0.007 min
Lab File: VL042471.D
Acq: 05 May 2025 10:07

Tgt Ion: 43 Resp: 105620

Ion	Ratio	Lower	Upper
43	100		
57	52.1	41.8	62.8

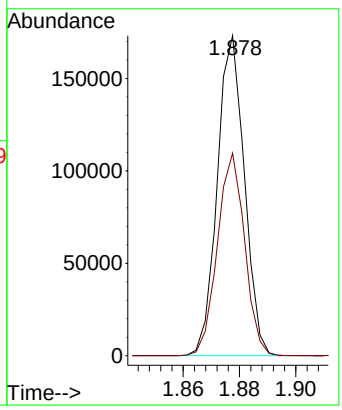




#11
Trichlorofluoromethane
Concen: 10.365 ppbv
RT: 1.878 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042471.D
Acq: 05 May 2025 10:07

Tgt Ion:101 Resp: 11569

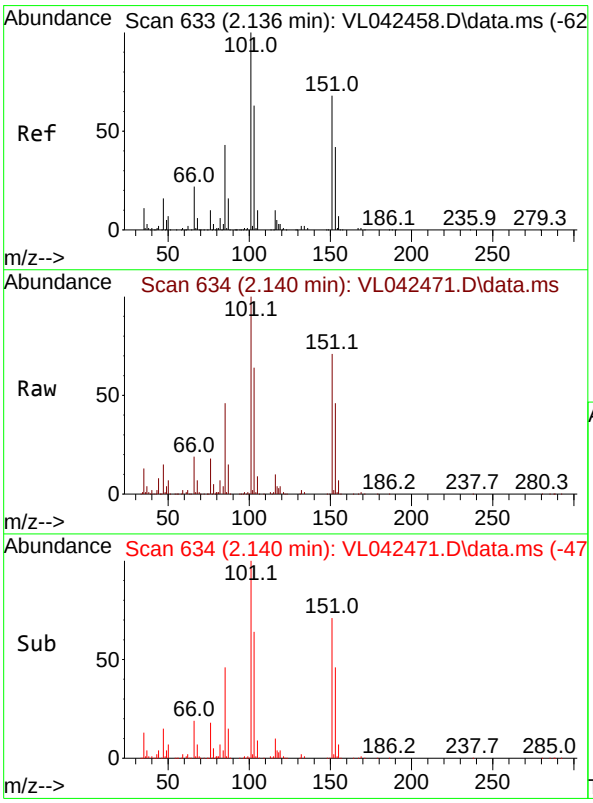
Ion	Ratio	Lower	Upper
101	100		
103	63.3	50.6	76.0



Instrument :
MSVOA_L
ClientSampleId :
VL0505ABS01

Manual Integrations
APPROVED

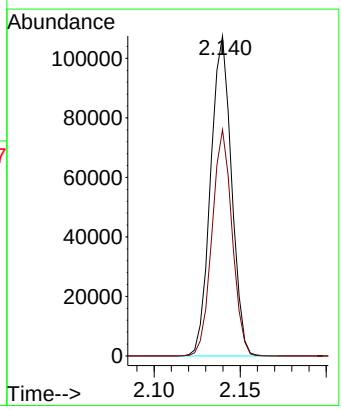
Reviewed By :Semsettin Yesilyurt 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

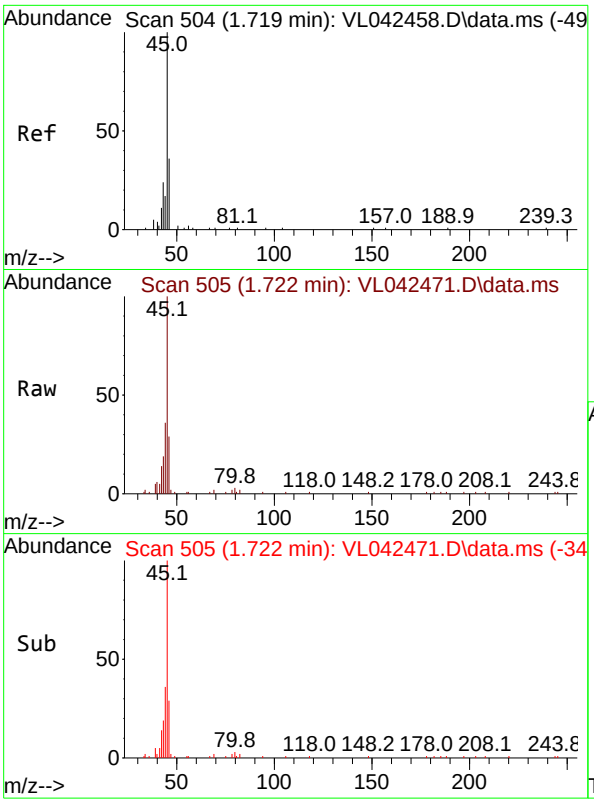


#12
1,1,2-Trichlorotrifluoroethane
Concen: 10.191 ppbv
RT: 2.140 min Scan# 634
Delta R.T. 0.003 min
Lab File: VL042471.D
Acq: 05 May 2025 10:07

Tgt Ion:101 Resp: 90819

Ion	Ratio	Lower	Upper
101	100		
151	67.9	54.6	82.0

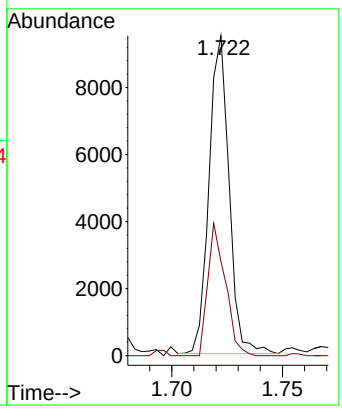




#13
Ethanol
Concen: 7.037 ppbv
RT: 1.722 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042471.D
Acq: 05 May 2025 10:07

Tgt Ion: 45 Resp: 597

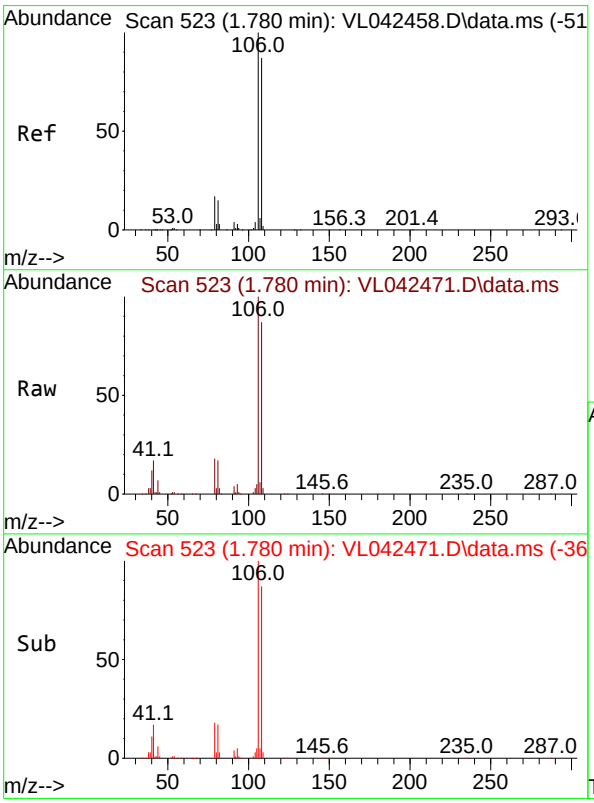
Ion	Ratio	Lower	Upper
45	100		
46	37.9	15.3	61.1



Instrument :
MSVOA_L
ClientSampleId :
VL0505ABS01

Manual Integrations
APPROVED

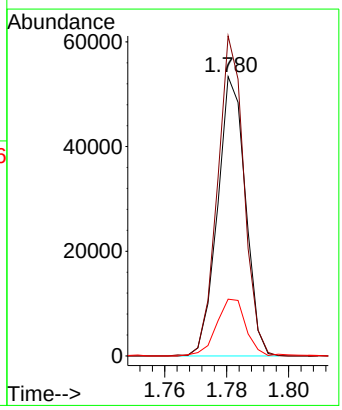
Reviewed By :Semsettin Yesilyurt 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

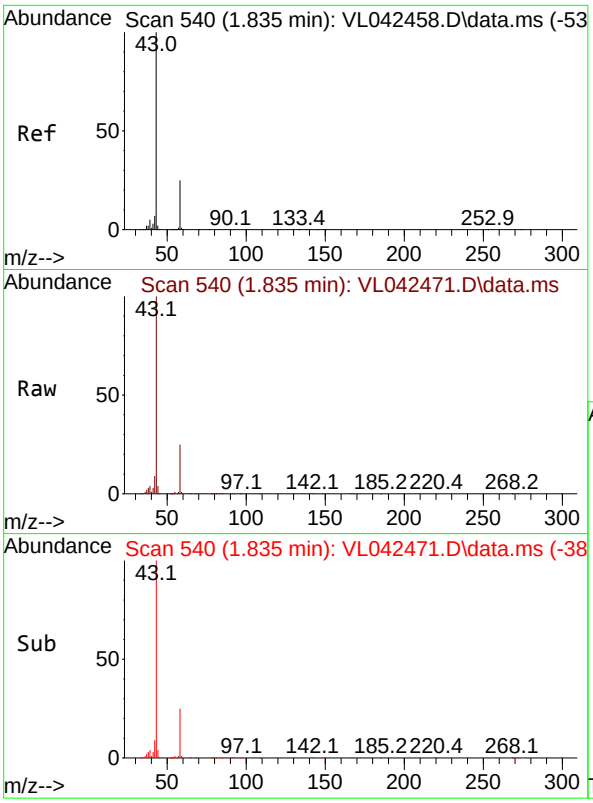


#14
Bromoethene
Concen: 10.148 ppbv
RT: 1.780 min Scan# 523
Delta R.T. 0.000 min
Lab File: VL042471.D
Acq: 05 May 2025 10:07

Tgt Ion:108 Resp: 33388

Ion	Ratio	Lower	Upper
108	100		
106	108.6	88.8	133.2
79	21.8	17.1	25.7

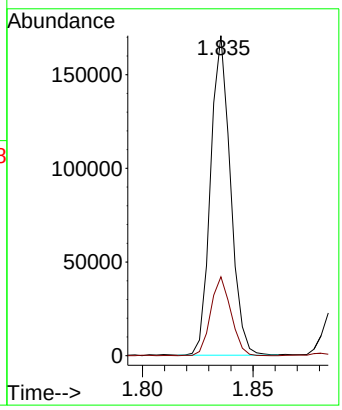




#15
Acetone
Concen: 7.997 ppbv
RT: 1.835 min Scan# 54
Delta R.T. 0.000 min
Lab File: VL042471.D
Acq: 05 May 2025 10:07

Tgt Ion: 43 Resp: 106709

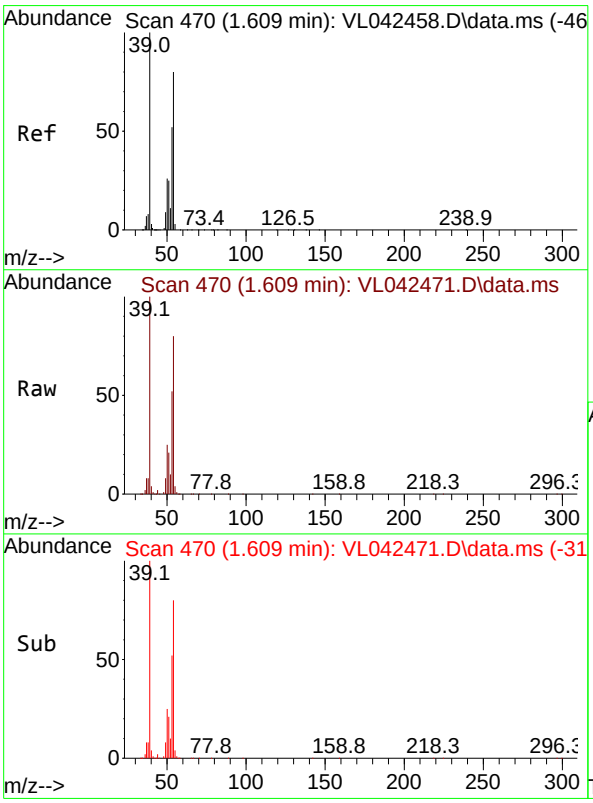
Ion	Ratio	Lower	Upper
43	100		
58	25.2	19.8	29.8



Instrument :
MSVOA_L
ClientSampleId :
VL0505ABS01

Manual Integrations
APPROVED

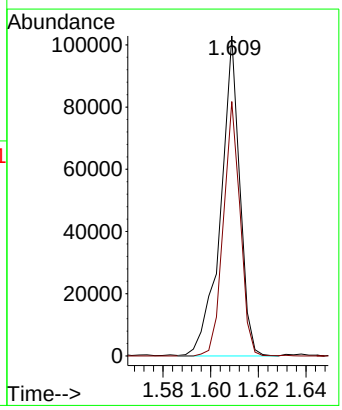
Reviewed By :Semsettin Yesilyurt 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

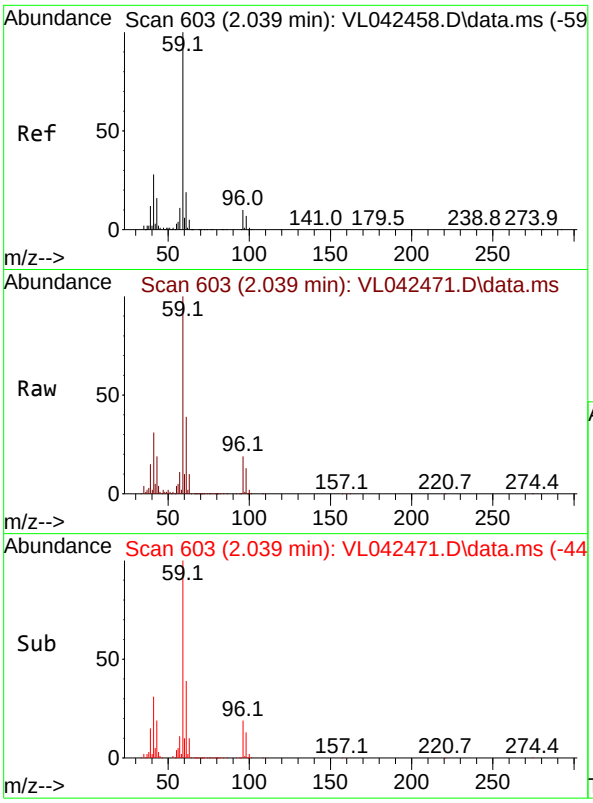


#16
1,3-Butadiene
Concen: 9.746 ppbv
RT: 1.609 min Scan# 470
Delta R.T. 0.000 min
Lab File: VL042471.D
Acq: 05 May 2025 10:07

Tgt Ion: 39 Resp: 57359

Ion	Ratio	Lower	Upper
39	100		
54	69.5	55.2	82.8

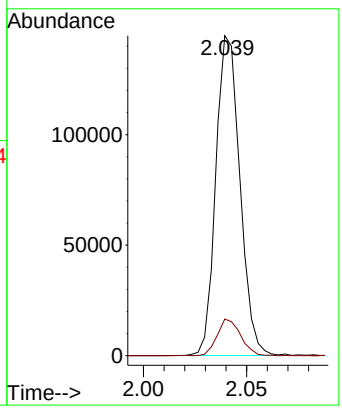




#17
tert-Butyl alcohol
Concen: 9.980 ppbv
RT: 2.039 min Scan# 6
Delta R.T. 0.000 min
Lab File: VL042471.D
Acq: 05 May 2025 10:07

Tgt Ion: 59 Resp: 11731

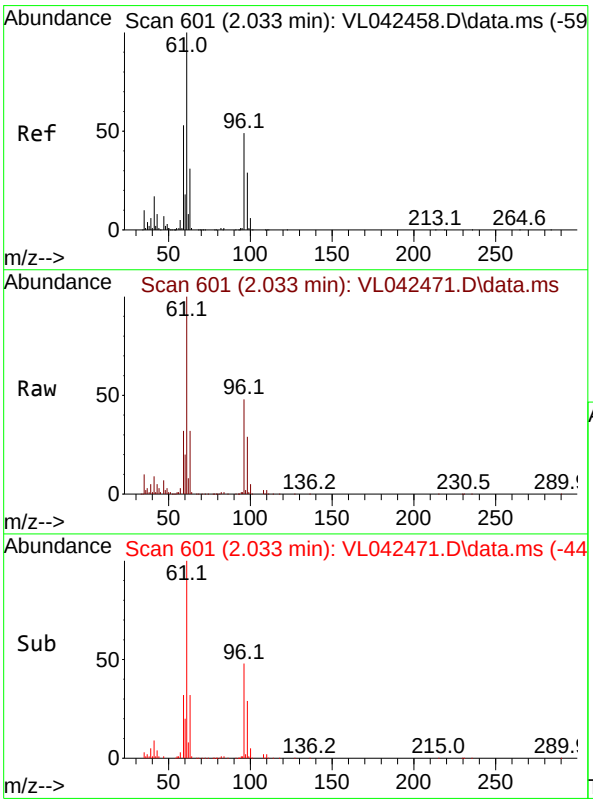
Ion	Ratio	Lower	Upper
59	100		
57	11.2	8.3	12.5



Instrument :
MSVOA_L
ClientSampleId :
VL0505ABS01

Manual Integrations
APPROVED

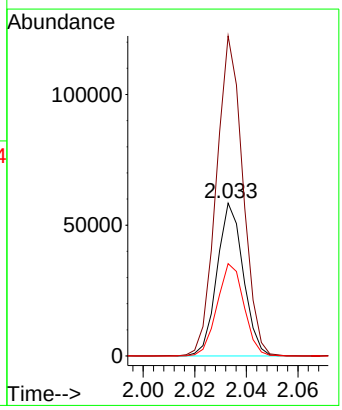
Reviewed By :Semsettin Yesilyurt 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

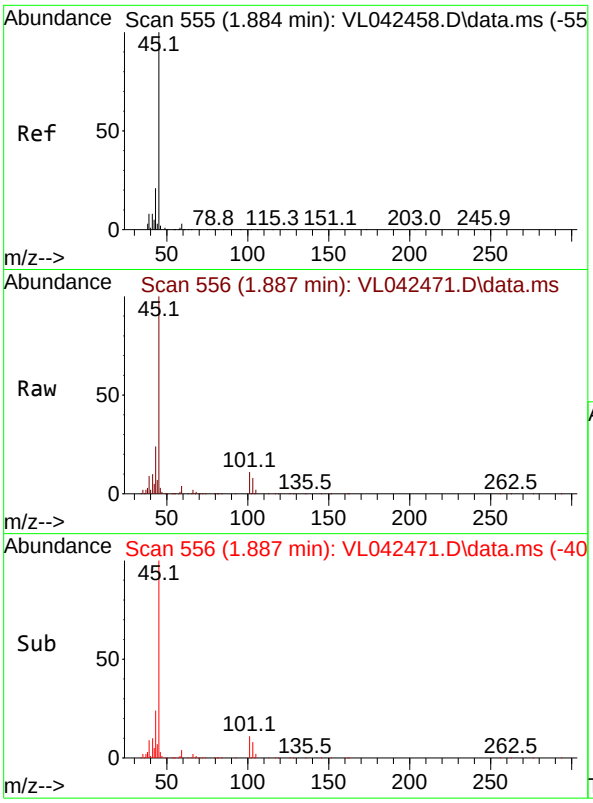


#18
1,1-Dichloroethene
Concen: 9.907 ppbv
RT: 2.033 min Scan# 601
Delta R.T. 0.000 min
Lab File: VL042471.D
Acq: 05 May 2025 10:07

Tgt Ion: 96 Resp: 41229

Ion	Ratio	Lower	Upper
96	100		
61	209.2	164.9	247.3
98	60.3	48.2	72.2

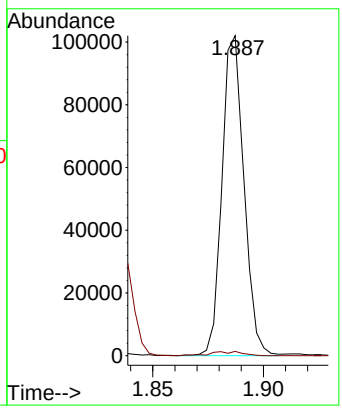




#19
Isopropyl Alcohol
Concen: 9.550 ppbv
RT: 1.887 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042471.D
Acq: 05 May 2025 10:07

Tgt Ion: 45 Resp: 7052

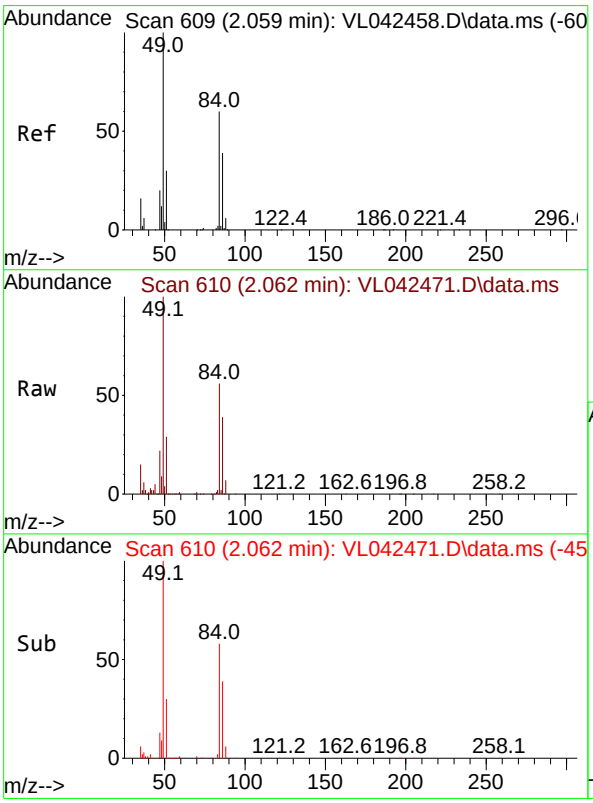
Ion	Ratio	Lower	Upper
45	100		
58	1.8	1.6	2.4



Instrument :
MSVOA_L
ClientSampleId :
VL0505ABS01

Manual Integrations
APPROVED

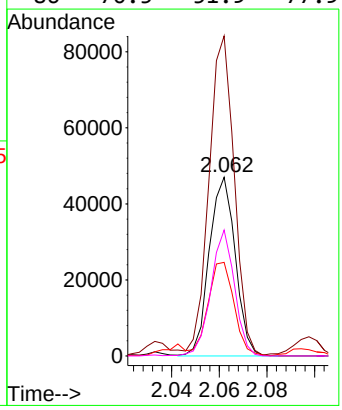
Reviewed By :Semsettin Yesilyurt 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

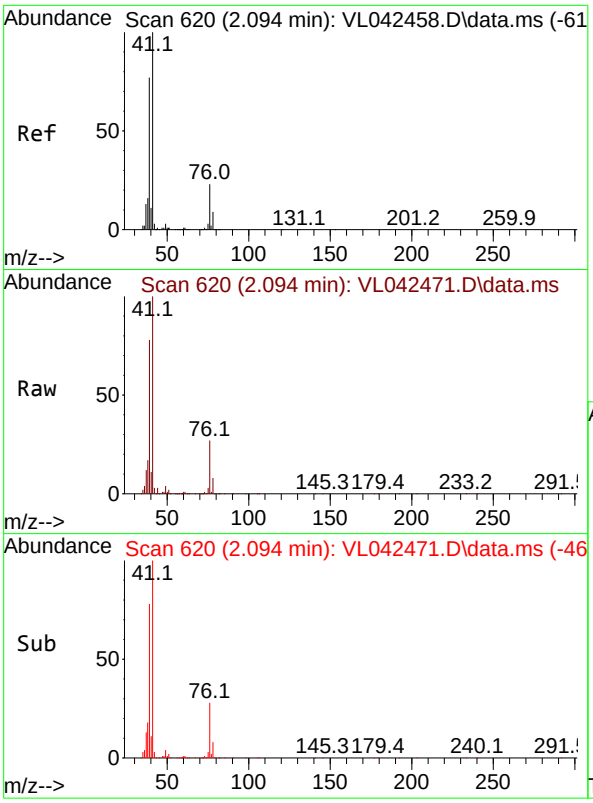


#20
Methylene Chloride
Concen: 8.901 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.003 min
Lab File: VL042471.D
Acq: 05 May 2025 10:07

Tgt Ion: 84 Resp: 35706

Ion	Ratio	Lower	Upper
84	100		
49	177.8	133.9	200.9
51	51.4	41.0	61.6
86	70.5	51.9	77.9

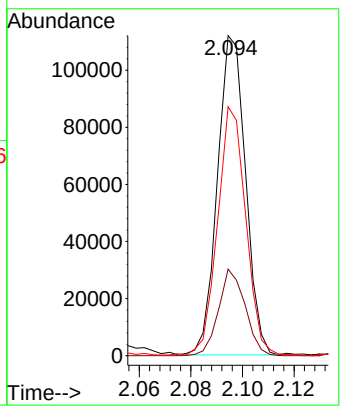




#21
Allyl Chloride
Concen: 9.873 ppbv
RT: 2.094 min Scan# 6
Delta R.T. 0.000 min
Lab File: VL042471.D
Acq: 05 May 2025 10:07

Tgt Ion: 41 Resp: 8472

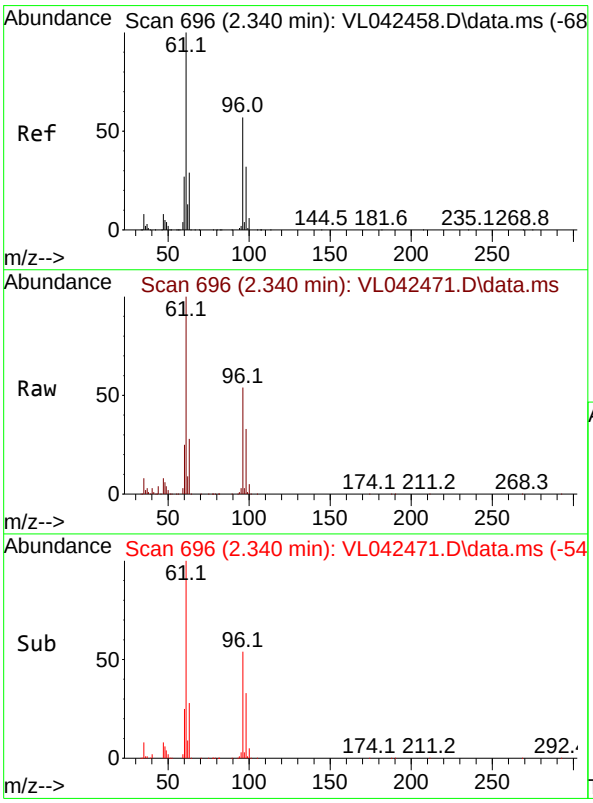
Ion	Ratio	Lower	Upper
41	100		
76	25.6	19.6	29.4
39	77.7	61.0	91.4



Instrument :
MSVOA_L
ClientSampleId :
VL0505ABS01

Manual Integrations
APPROVED

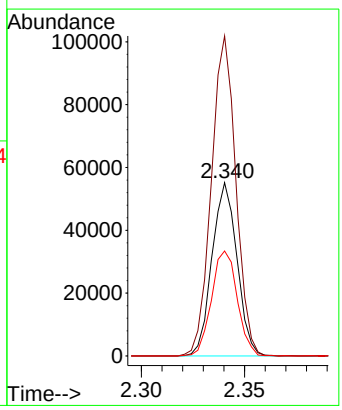
Reviewed By :Semsettin Yesilyurt 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

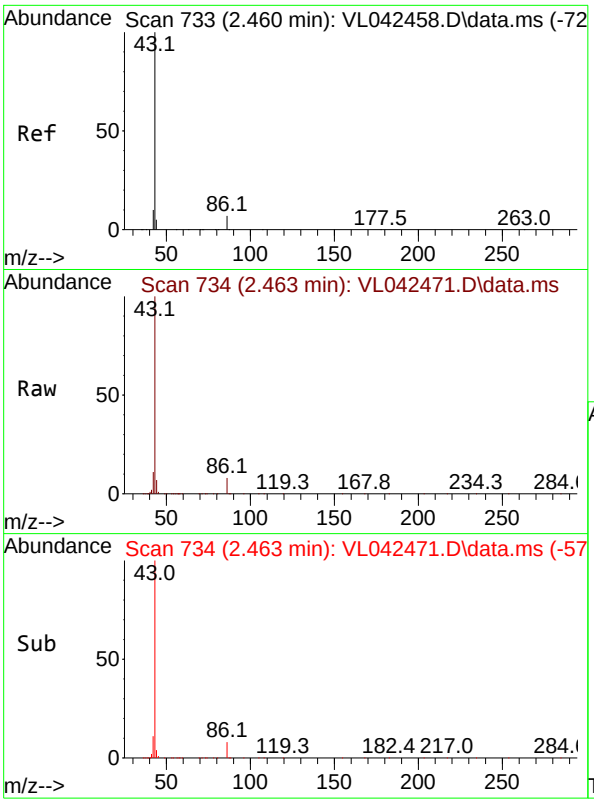


#22
trans-1,2-Dichloroethene
Concen: 9.528 ppbv
RT: 2.340 min Scan# 696
Delta R.T. 0.000 min
Lab File: VL042471.D
Acq: 05 May 2025 10:07

Tgt Ion: 96 Resp: 46305

Ion	Ratio	Lower	Upper
96	100		
61	184.7	141.8	212.6
98	60.6	45.0	67.6

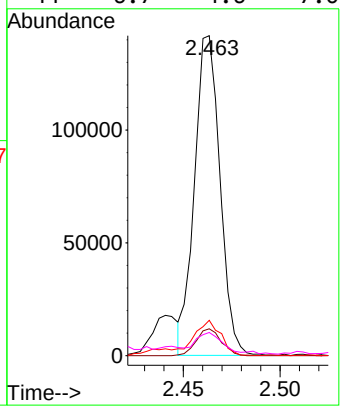




#23
Vinyl Acetate
Concen: 10.210 ppbv
RT: 2.463 min Scan# 7
Delta R.T. 0.003 min
Lab File: VL042471.D
Acq: 05 May 2025 10:07

Tgt Ion: 43 Resp: 13002

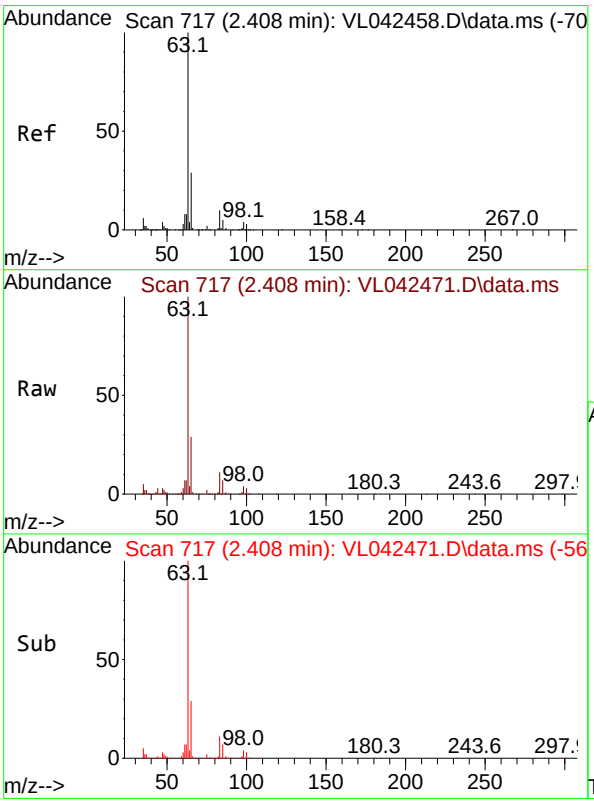
Ion	Ratio	Lower	Upper
43	100		
86	8.4	5.5	8.3#
42	11.0	8.3	12.5
44	6.7	4.6	7.0



Instrument :
MSVOA_L
ClientSampleId :
VL0505ABS01

Manual Integrations
APPROVED

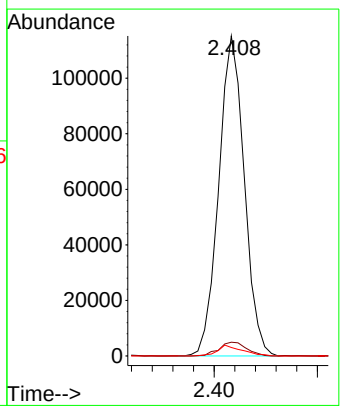
Reviewed By :Semsettin Yesilyurt 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

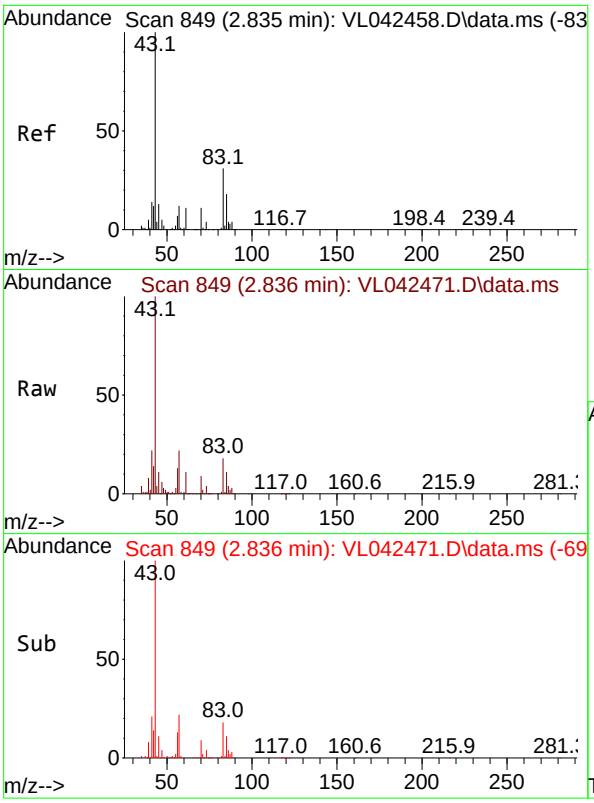


#24
1,1-Dichloroethane
Concen: 9.984 ppbv
RT: 2.408 min Scan# 717
Delta R.T. 0.000 min
Lab File: VL042471.D
Acq: 05 May 2025 10:07

Tgt Ion: 63 Resp: 98989

Ion	Ratio	Lower	Upper
63	100		
98	4.3	1.8	5.5
100	2.7	1.4	4.2

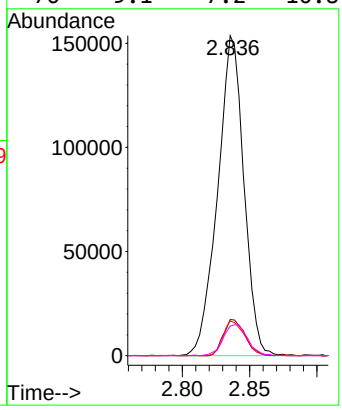




#25
Ethyl Acetate
Concen: 9.728 ppbv
RT: 2.836 min Scan# 84
Delta R.T. 0.000 min
Lab File: VL042471.D
Acq: 05 May 2025 10:07

Tgt Ion: 43 Resp: 20784

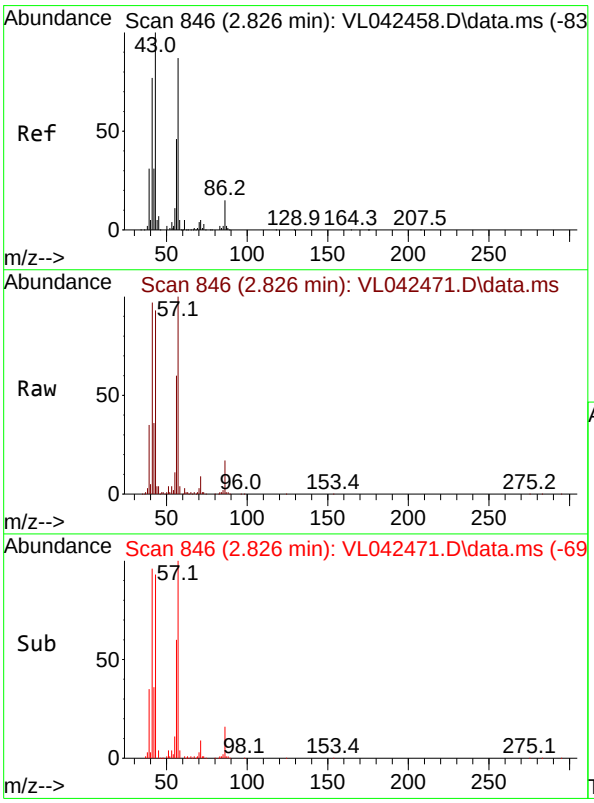
Ion	Ratio	Lower	Upper
43	100		
45	9.4	7.8	11.6
61	8.9	7.2	10.8
70	9.1	7.2	10.8



Instrument :
MSVOA_L
ClientSampleId :
VL0505ABS01

Manual Integrations
APPROVED

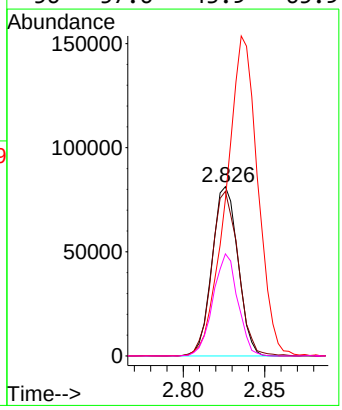
Reviewed By :Semsettin Yesilyurt 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

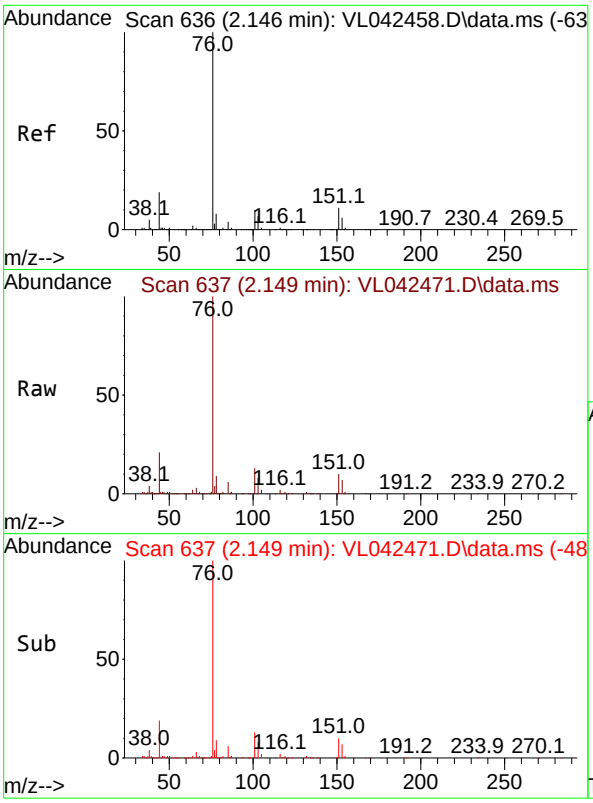


#26
Hexane
Concen: 9.673 ppbv
RT: 2.826 min Scan# 846
Delta R.T. 0.000 min
Lab File: VL042471.D
Acq: 05 May 2025 10:07

Tgt Ion: 57 Resp: 90030

Ion	Ratio	Lower	Upper
57	100		
41	99.4	77.8	116.8
43	232.3	187.0	280.6
56	57.6	43.9	65.9

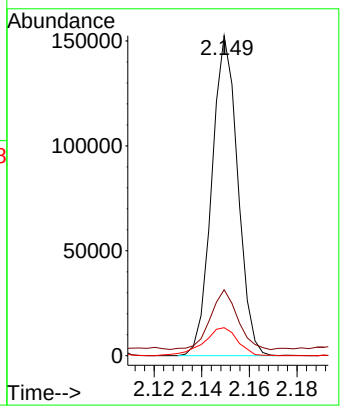




#27
Carbon Disulfide
Concen: 10.614 ppbv
RT: 2.149 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL042471.D
Acq: 05 May 2025 10:07

Tgt Ion: 76 Resp: 11528

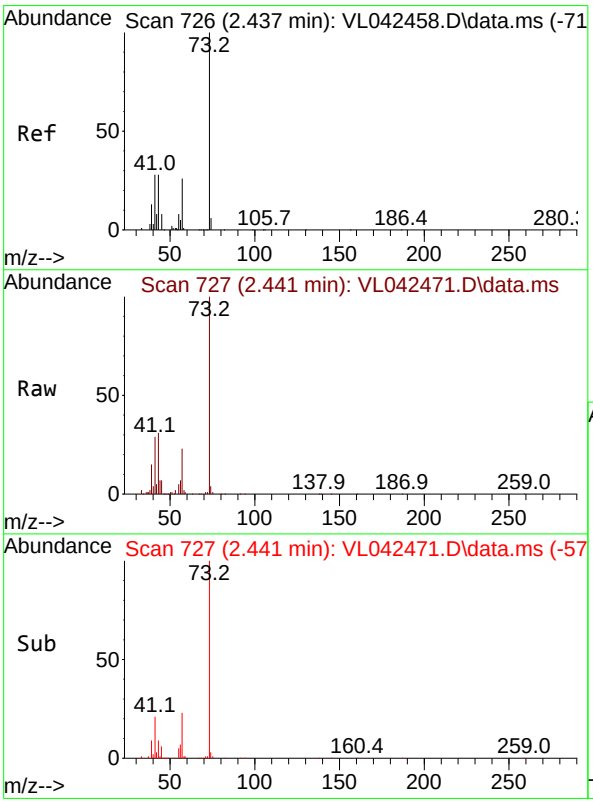
Ion	Ratio	Lower	Upper
76	100		
44	22.5	21.0	31.6
78	11.4	8.6	13.0



Instrument :
MSVOA_L
ClientSampleId :
VL0505ABS01

Manual Integrations
APPROVED

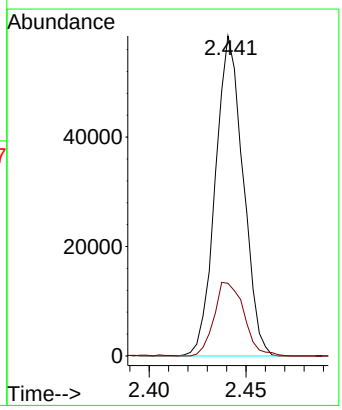
Reviewed By :Semsettin Yesilyurt 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

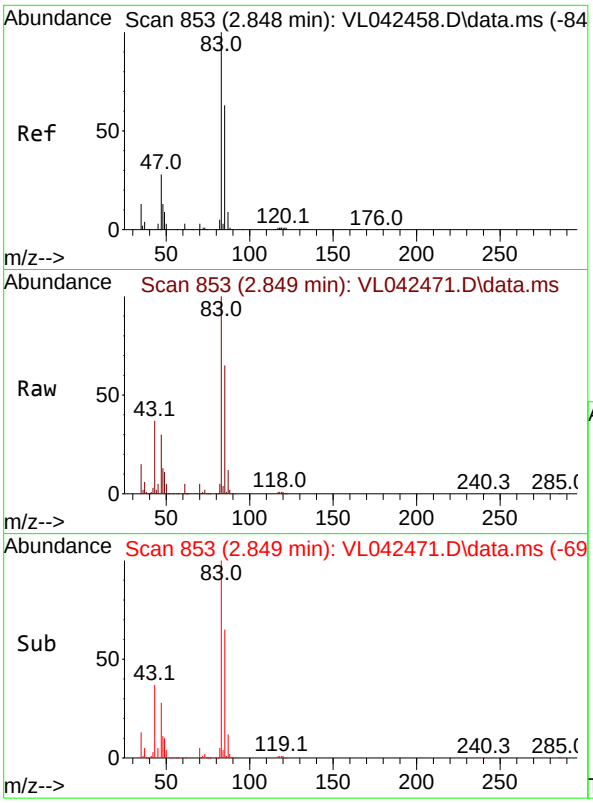


#28
Methyl tert-Butyl Ether
Concen: 10.429 ppbv
RT: 2.441 min Scan# 727
Delta R.T. 0.003 min
Lab File: VL042471.D
Acq: 05 May 2025 10:07

Tgt Ion: 73 Resp: 58319

Ion	Ratio	Lower	Upper
73	100		
57	25.1	19.9	29.9

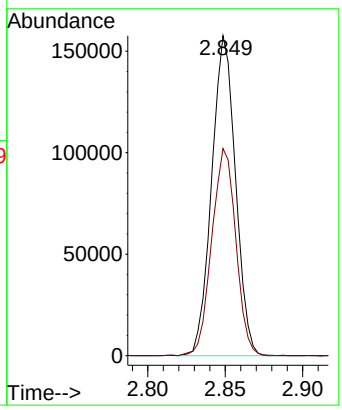




#29
Chloroform
Concen: 9.660 ppbv
RT: 2.849 min Scan# 8
Delta R.T. 0.000 min
Lab File: VL042471.D
Acq: 05 May 2025 10:07

Tgt Ion: 83 Resp: 16848

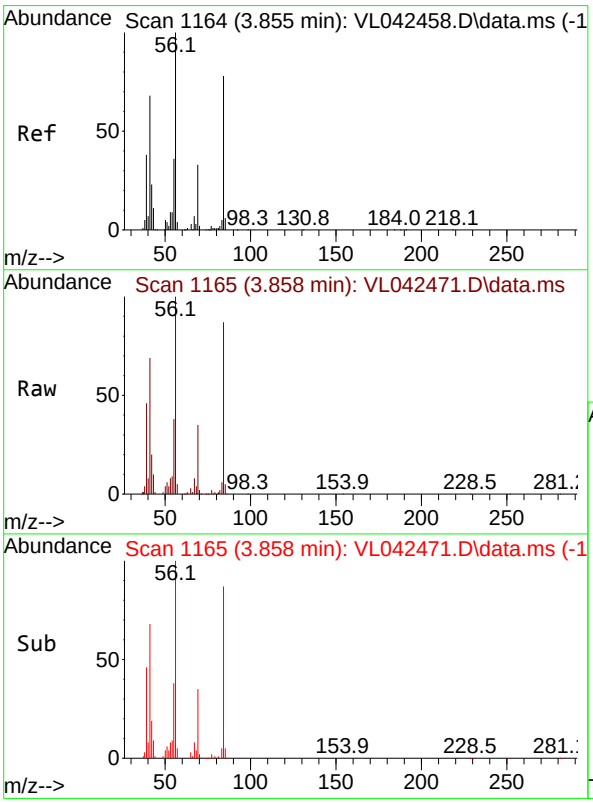
Ion	Ratio	Lower	Upper
83	100		
85	64.8	50.4	75.6



Instrument :
MSVOA_L
ClientSampleId :
VL0505ABS01

Manual Integrations
APPROVED

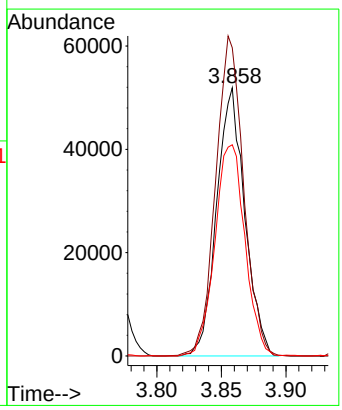
Reviewed By :Semsettin Yesilyurt 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

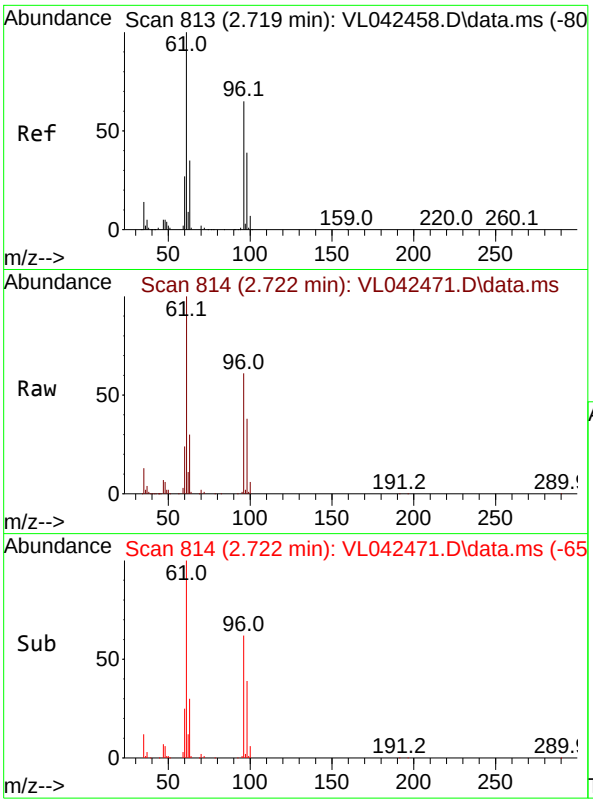


#30
Cyclohexane
Concen: 10.078 ppbv
RT: 3.858 min Scan# 1165
Delta R.T. 0.003 min
Lab File: VL042471.D
Acq: 05 May 2025 10:07

Tgt Ion: 84 Resp: 78428

Ion	Ratio	Lower	Upper
84	100		
56	118.7	98.1	147.1
41	84.7	65.8	98.8

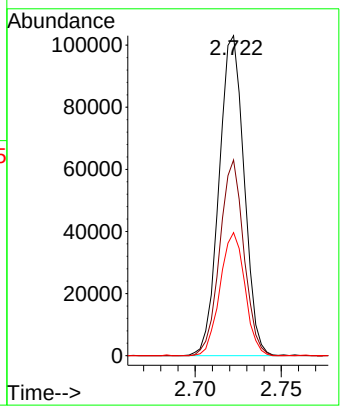




#31
cis-1,2-Dichloroethene
Concen: 9.595 ppbv
RT: 2.722 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042471.D
Acq: 05 May 2025 10:07

Tgt Ion: 61 Resp: 10419

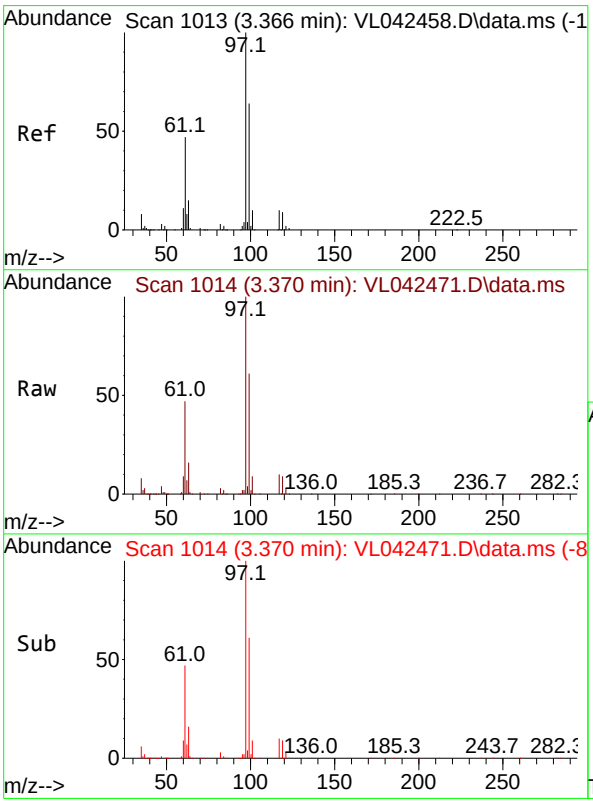
Ion	Ratio	Lower	Upper
61	100		
96	61.2	52.0	78.0
98	38.4	31.0	46.6



Instrument :
MSVOA_L
ClientSampleId :
VL0505ABS01

Manual Integrations
APPROVED

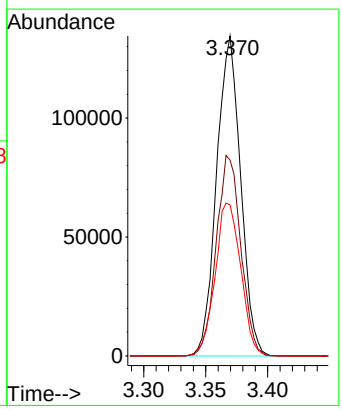
Reviewed By :Semsettin Yesilyurt 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

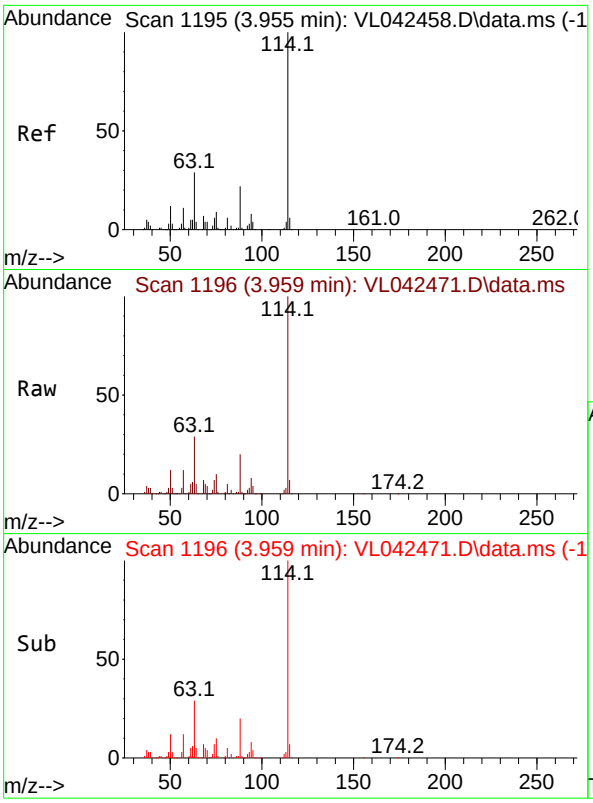


#32
1,1,1-Trichloroethane
Concen: 9.632 ppbv
RT: 3.370 min Scan# 1014
Delta R.T. 0.003 min
Lab File: VL042471.D
Acq: 05 May 2025 10:07

Tgt Ion: 97 Resp: 182273

Ion	Ratio	Lower	Upper
97	100		
99	63.9	50.7	76.1
61	50.8	40.9	61.3

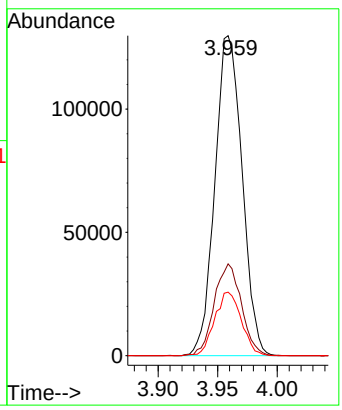




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.959 min Scan# 1
Delta R.T. 0.003 min
Lab File: VL042471.D
Acq: 05 May 2025 10:07

Tgt Ion:114 Resp: 20611

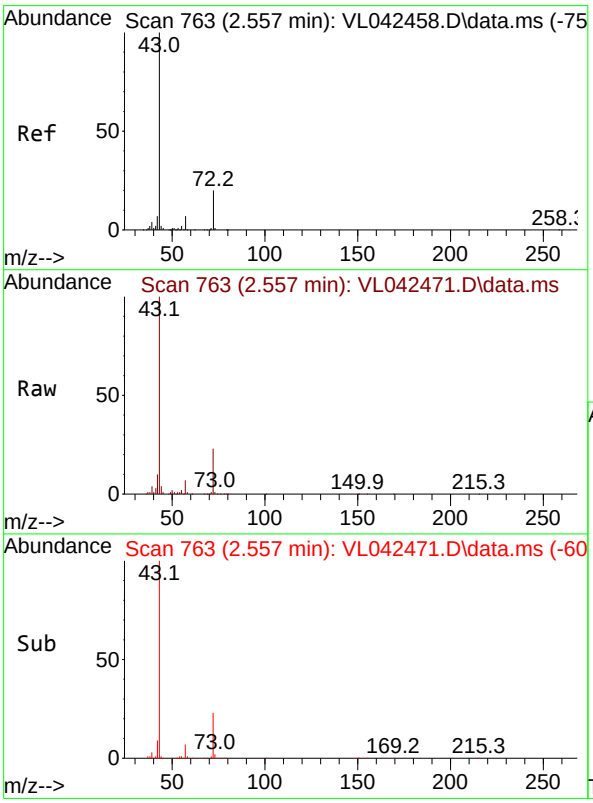
Ion	Ratio	Lower	Upper
114	100		
63	28.7	23.1	34.7
88	19.5	16.1	24.1



Instrument :
MSVOA_L
ClientSampleId :
VL0505ABS01

Manual Integrations
APPROVED

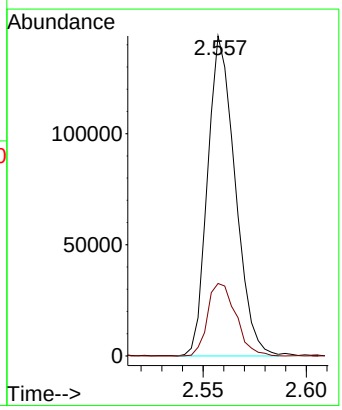
Reviewed By :Semsettin Yesilyurt 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

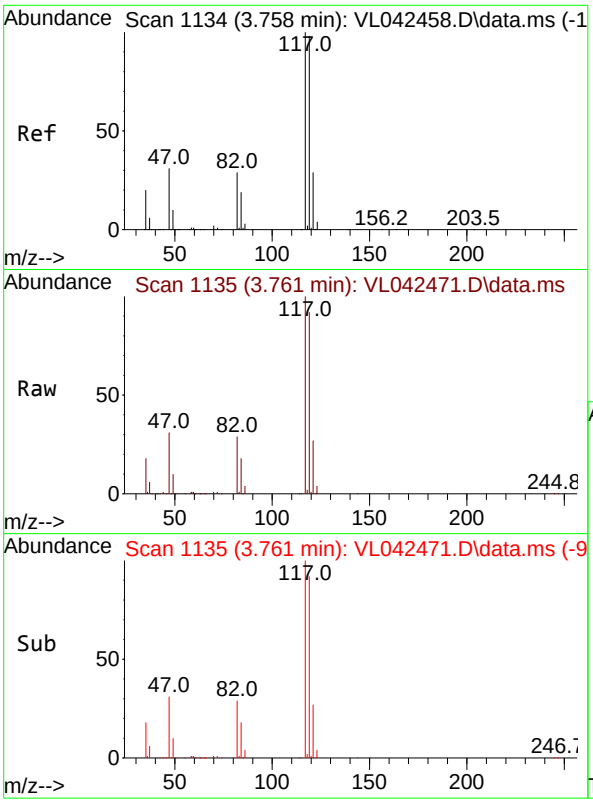


#34
2-Butanone
Concen: 8.961 ppbv
RT: 2.557 min Scan# 763
Delta R.T. 0.000 min
Lab File: VL042471.D
Acq: 05 May 2025 10:07

Tgt Ion: 43 Resp: 133597

Ion	Ratio	Lower	Upper
43	100		
72	23.3	16.7	25.1

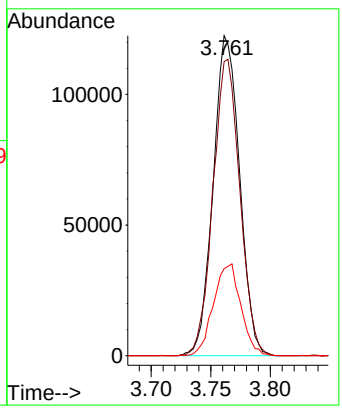




#35
Carbon Tetrachloride
Concen: 10.090 ppbv
RT: 3.761 min Scan# 1
Delta R.T. 0.003 min
Lab File: VL042471.D
Acq: 05 May 2025 10:07

Tgt Ion:117 Resp: 18891

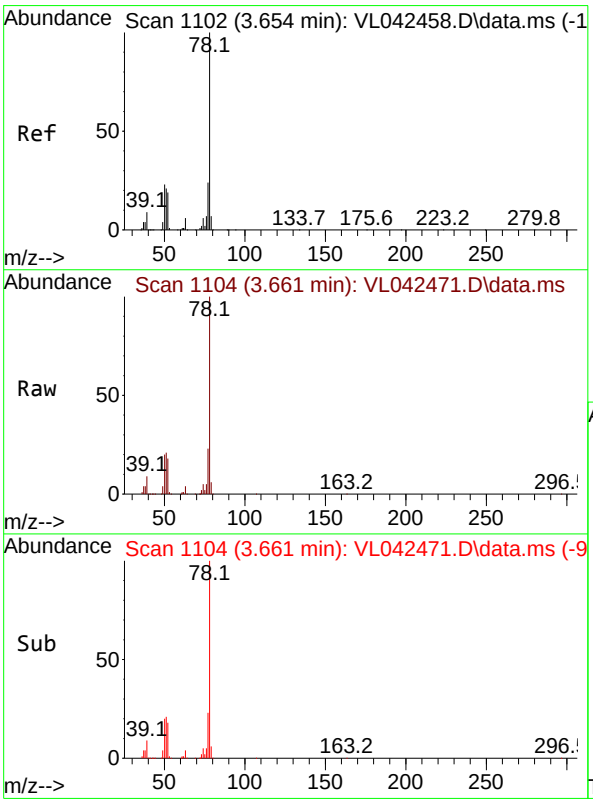
Ion	Ratio	Lower	Upper
117	100		
119	91.9	78.1	117.1
121	27.2	23.0	34.6



Instrument :
MSVOA_L
ClientSampleId :
VL0505ABS01

Manual Integrations
APPROVED

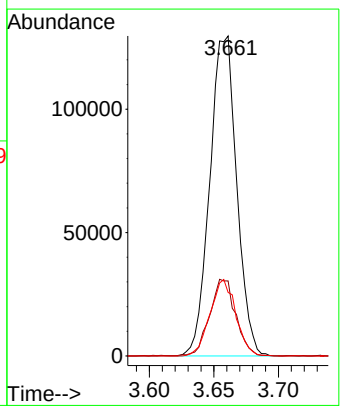
Reviewed By :Semsettin Yesilyurt 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

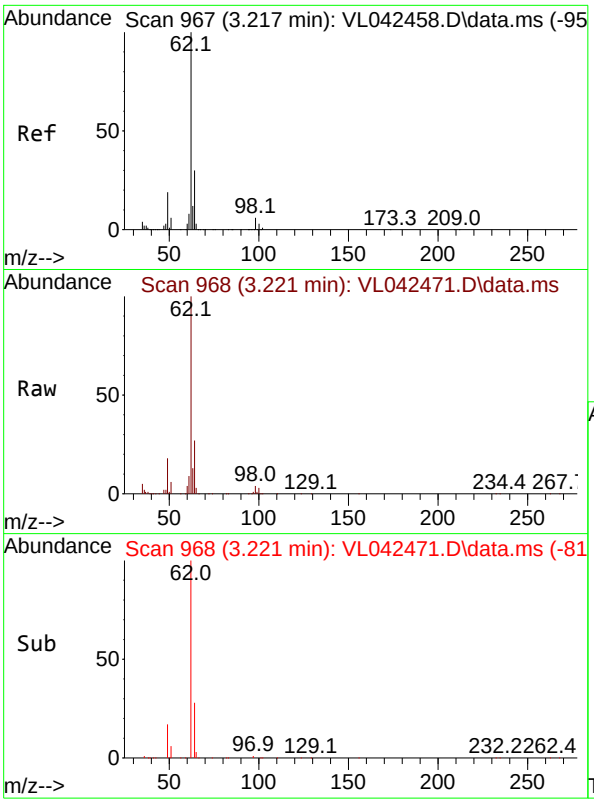


#36
Benzene
Concen: 9.682 ppbv
RT: 3.661 min Scan# 1104
Delta R.T. 0.007 min
Lab File: VL042471.D
Acq: 05 May 2025 10:07

Tgt Ion: 78 Resp: 188320

Ion	Ratio	Lower	Upper
78	100		
77	23.4	18.9	28.3
50	19.8	18.4	27.6

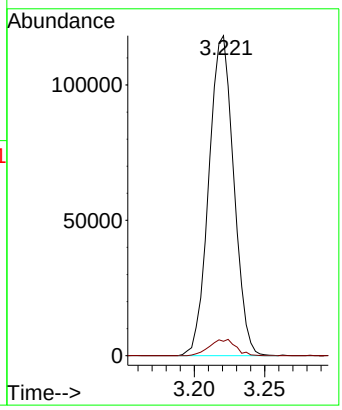




#37
1,2-Dichloroethane
Concen: 9.695 ppbv
RT: 3.221 min Scan# 9
Delta R.T. 0.003 min
Lab File: VL042471.D
Acq: 05 May 2025 10:07

Tgt Ion: 62 Resp: 14534

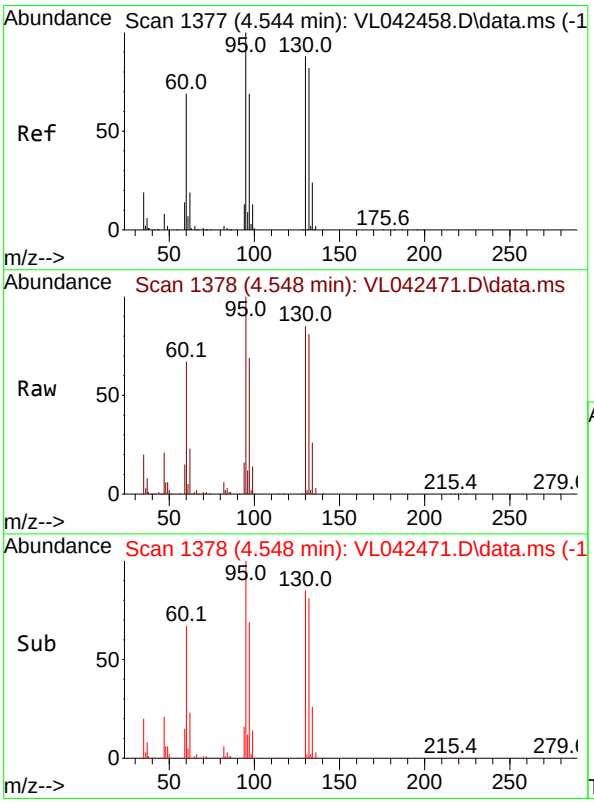
Ion	Ratio	Lower	Upper
62	100		
98	5.4	4.3	6.5



Instrument :
MSVOA_L
ClientSampleId :
VL0505ABS01

Manual Integrations
APPROVED

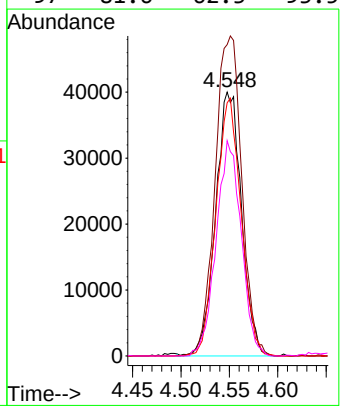
Reviewed By :Semsettin Yesilyurt 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

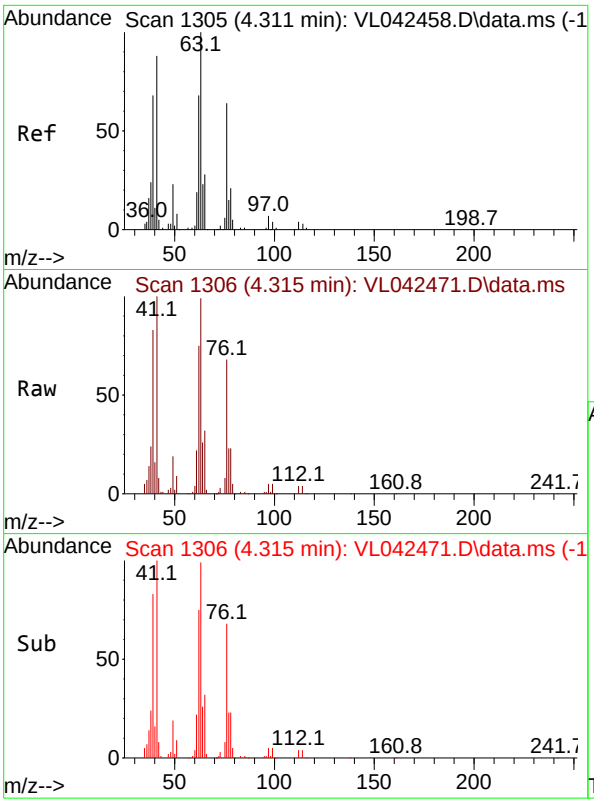


#38
Trichloroethene
Concen: 10.017 ppbv m
RT: 4.548 min Scan# 1378
Delta R.T. 0.003 min
Lab File: VL042471.D
Acq: 05 May 2025 10:07

Tgt Ion:130 Resp: 74307

Ion	Ratio	Lower	Upper
130	100		
95	118.0	91.0	136.4
132	96.0	74.2	111.4
97	81.6	62.3	93.5

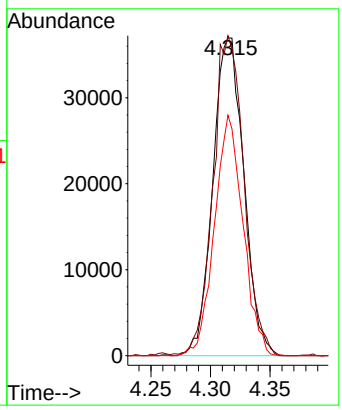




#39
1,2-Dichloropropane
Concen: 9.188 ppbv
RT: 4.315 min Scan# 1
Delta R.T. 0.003 min
Lab File: VL042471.D
Acq: 05 May 2025 10:07

Tgt Ion: 63 Resp: 6690

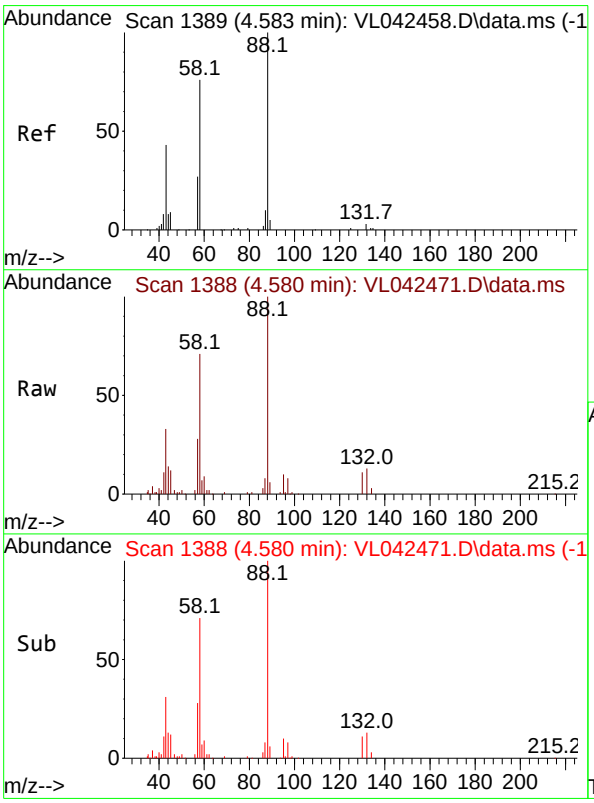
Ion	Ratio	Lower	Upper
63	100		
41	100.3	69.8	104.6
62	75.5	54.3	81.5



Instrument :
MSVOA_L
ClientSampleId :
VL0505ABS01

Manual Integrations
APPROVED

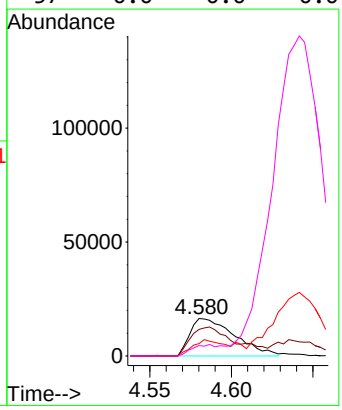
Reviewed By :Semsettin Yesilyurt 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

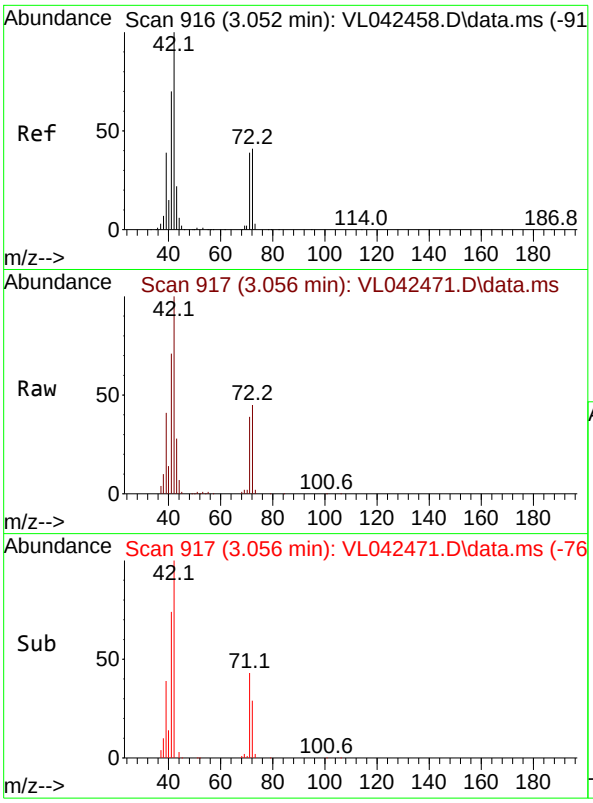


#40
1,4-Dioxane
Concen: 9.209 ppbv
RT: 4.580 min Scan# 1388
Delta R.T. -0.003 min
Lab File: VL042471.D
Acq: 05 May 2025 10:07

Tgt Ion: 88 Resp: 31401

Ion	Ratio	Lower	Upper
88	100		
58	78.2	0.0	0.0#
43	0.0	0.0	0.0
57	0.0	0.0	0.0

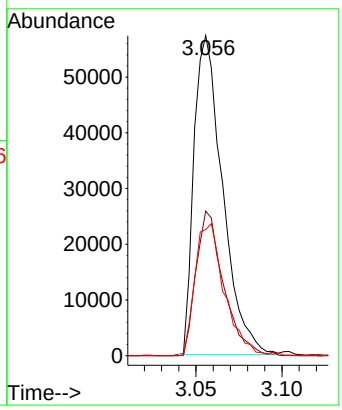




#41
Tetrahydrofuran
Concen: 9.351 ppbv
RT: 3.056 min Scan# 9
Delta R.T. 0.003 min
Lab File: VL042471.D
Acq: 05 May 2025 10:07

Tgt Ion: 42 Resp: 6625

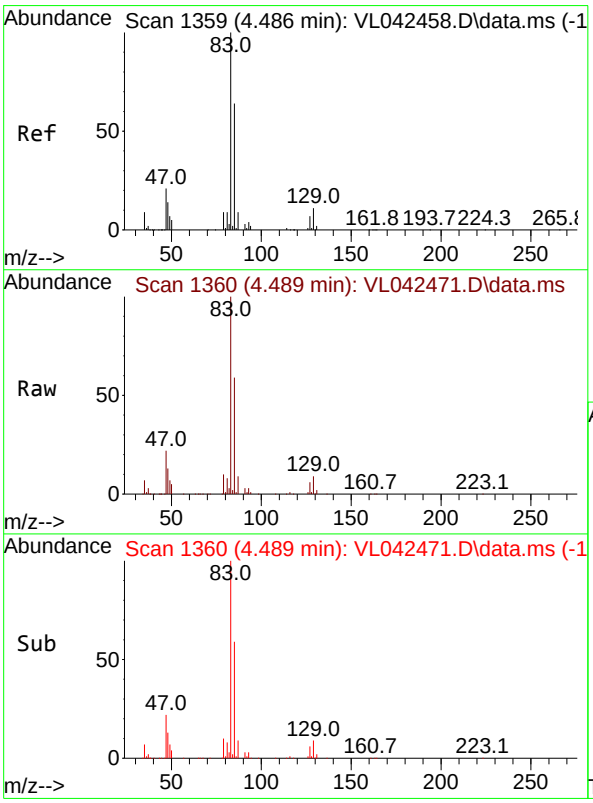
Ion	Ratio	Lower	Upper
42	100		
72	43.7	33.5	50.3
71	42.5	32.6	49.0



Instrument :
MSVOA_L
ClientSampleId :
VL0505ABS01

Manual Integrations
APPROVED

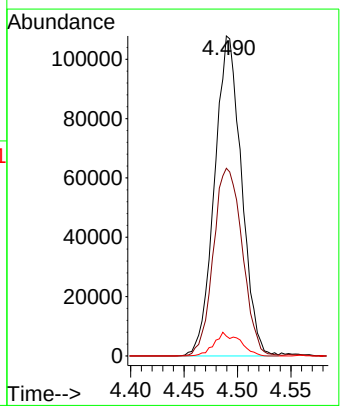
Reviewed By :Semsettin Yesilyurt 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

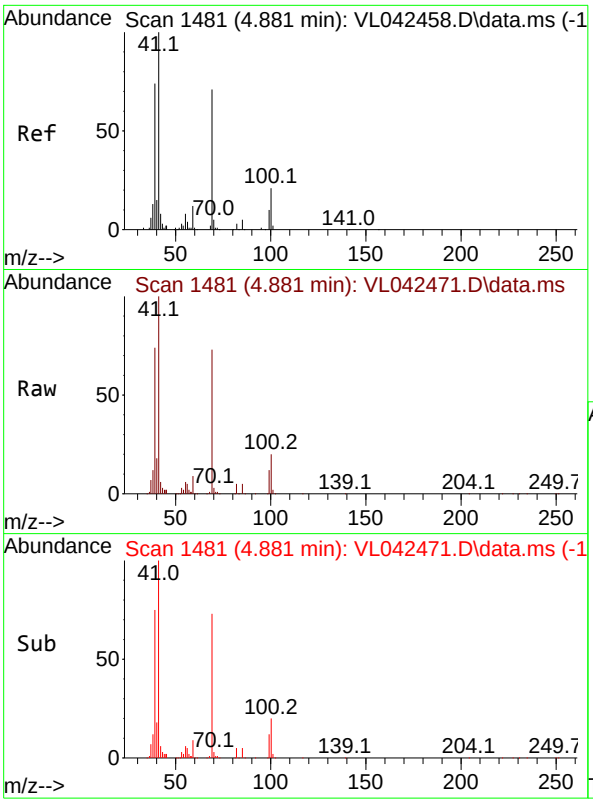


#42
Bromodichloromethane
Concen: 10.330 ppbv
RT: 4.489 min Scan# 1360
Delta R.T. 0.003 min
Lab File: VL042471.D
Acq: 05 May 2025 10:07

Tgt Ion: 83 Resp: 189214

Ion	Ratio	Lower	Upper
83	100		
85	58.6	51.5	77.3
127	6.2	5.4	8.2

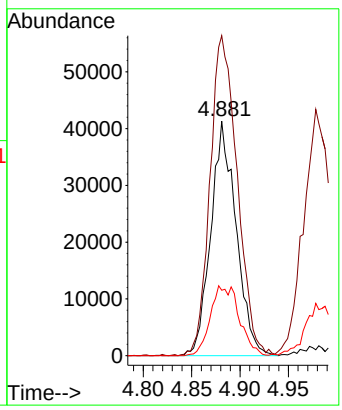




#43
Methyl Methacrylate
Concen: 10.326 ppbv
RT: 4.881 min Scan# 14
Delta R.T. 0.000 min
Lab File: VL042471.D
Acq: 05 May 2025 10:07

Tgt Ion: 69 Resp: 7495

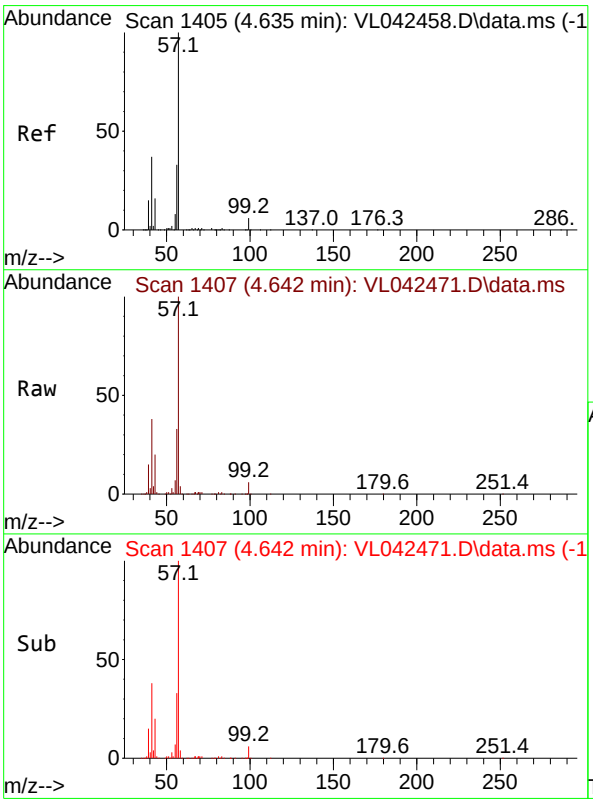
Ion	Ratio	Lower	Upper
69	100		
41	147.3	120.8	181.2
100	34.1	26.7	40.1



Instrument :
MSVOA_L
ClientSampleId :
VL0505ABS01

Manual Integrations
APPROVED

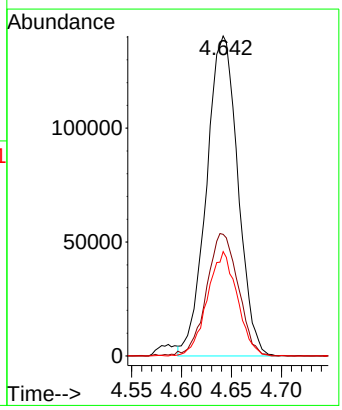
Reviewed By :Semsettin Yesilyurt 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

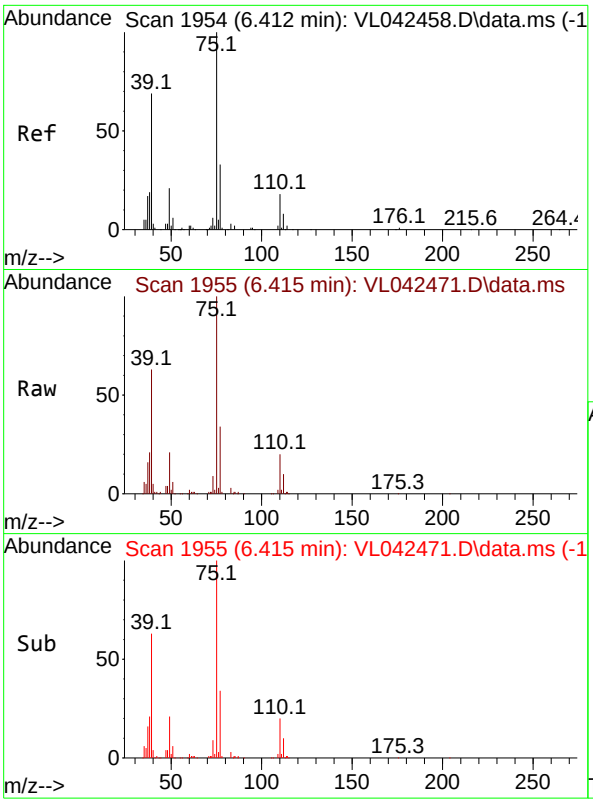


#44
2,2,4-Trimethylpentane
Concen: 9.737 ppbv
RT: 4.642 min Scan# 1407
Delta R.T. 0.007 min
Lab File: VL042471.D
Acq: 05 May 2025 10:07

Tgt Ion: 57 Resp: 307008

Ion	Ratio	Lower	Upper
57	100		
41	39.0	30.6	45.8
56	31.2	25.0	37.6

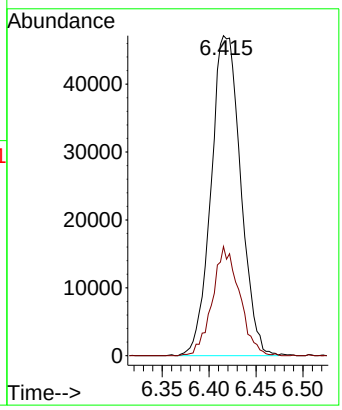




#45
t-1,3-Dichloropropene
Concen: 10.841 ppbv
RT: 6.415 min Scan# 1
Delta R.T. 0.003 min
Lab File: VL042471.D
Acq: 05 May 2025 10:07

Tgt Ion: 75 Resp: 10323

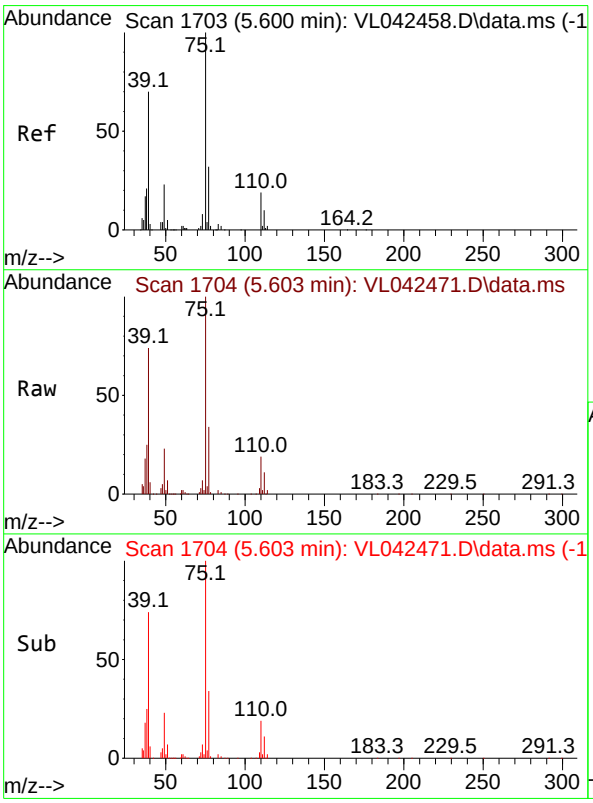
Ion	Ratio	Lower	Upper
75	100		
77	34.1	26.3	39.5



Instrument :
MSVOA_L
ClientSampleId :
VL0505ABS01

Manual Integrations
APPROVED

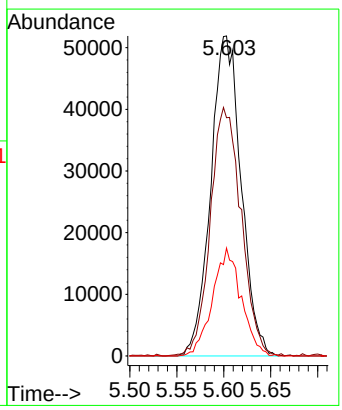
Reviewed By :Semsettin Yesilyurt 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

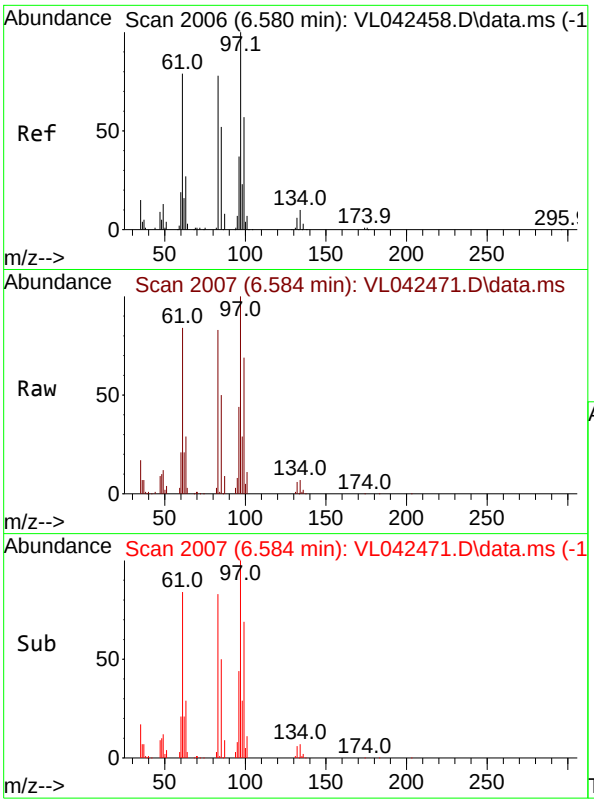


#46
cis-1,3-Dichloropropene
Concen: 10.313 ppbv
RT: 5.603 min Scan# 1704
Delta R.T. 0.003 min
Lab File: VL042471.D
Acq: 05 May 2025 10:07

Tgt Ion: 75 Resp: 116725

Ion	Ratio	Lower	Upper
75	100		
39	74.1	55.7	83.5
77	33.7	25.8	38.8

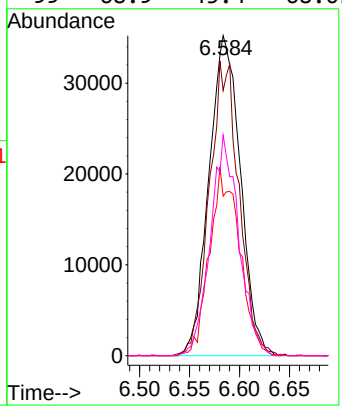




#47
1,1,2-Trichloroethane
Concen: 9.648 ppbv
RT: 6.584 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042471.D
Acq: 05 May 2025 10:07

Tgt Ion: 97 Resp: 7704

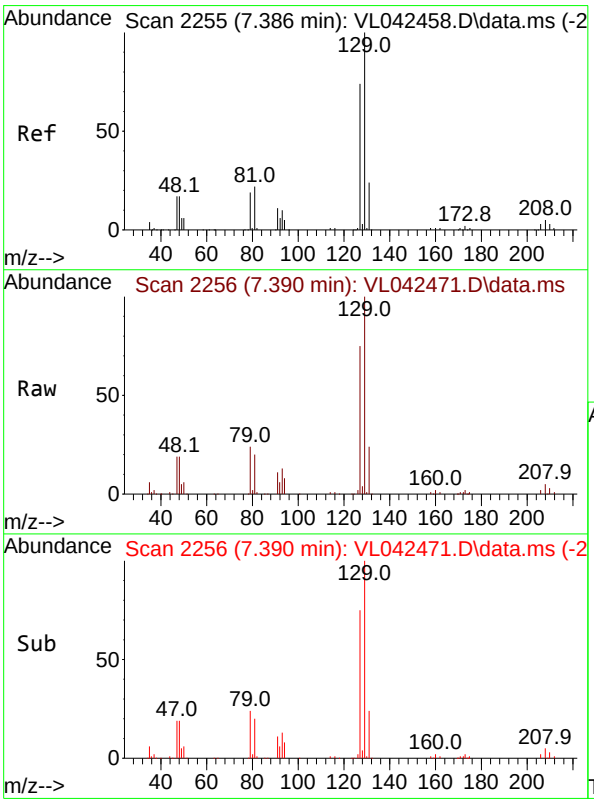
Ion	Ratio	Lower	Upper
97	100		
83	82.7	62.2	93.2
85	49.7	41.5	62.3
99	68.9	45.4	68.0#



Instrument :
MSVOA_L
ClientSampleId :
VL0505ABS01

Manual Integrations
APPROVED

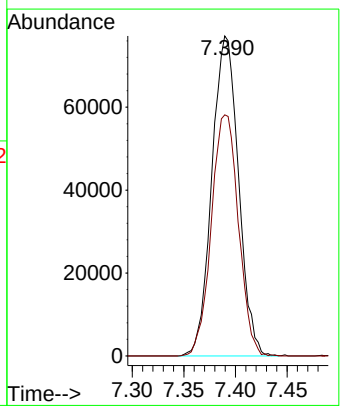
Reviewed By :Semsettin Yesilyurt 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

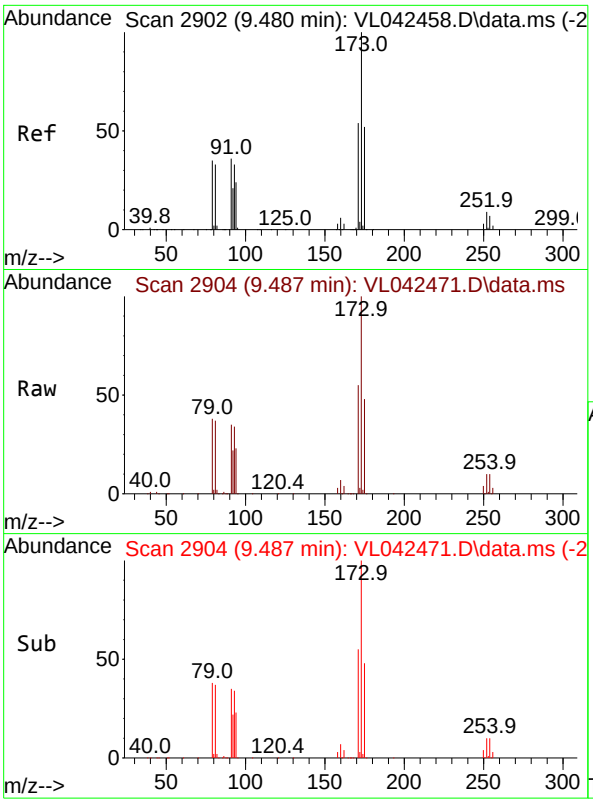


#48
Dibromochloromethane
Concen: 10.274 ppbv
RT: 7.390 min Scan# 2256
Delta R.T. 0.003 min
Lab File: VL042471.D
Acq: 05 May 2025 10:07

Tgt Ion:129 Resp: 138518

Ion	Ratio	Lower	Upper
129	100		
127	76.6	39.5	118.5

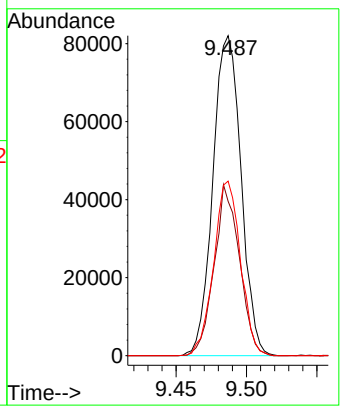




#49
Bromoform
Concen: 10.115 ppbv
RT: 9.487 min Scan# 2
Delta R.T. 0.007 min
Lab File: VL042471.D
Acq: 05 May 2025 10:07

Tgt Ion:173 Resp: 11436

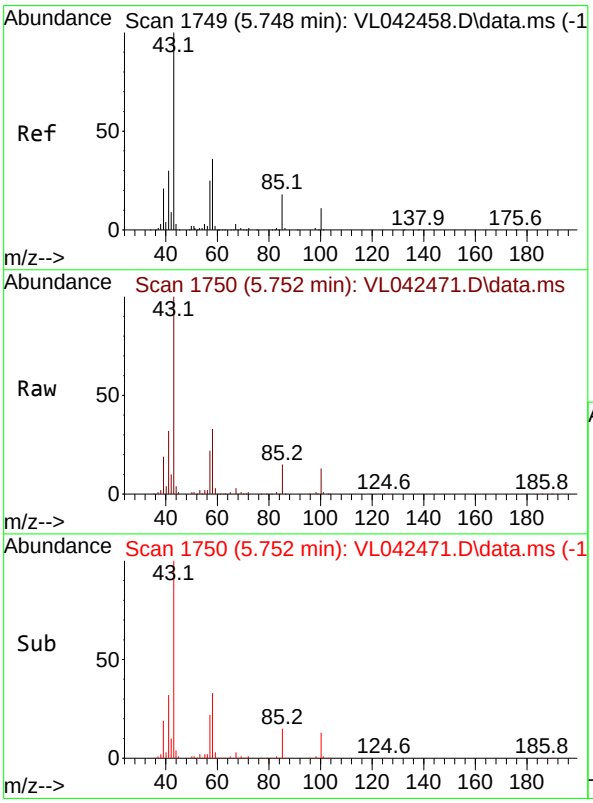
Ion	Ratio	Lower	Upper
173	100		
175	48.0	38.9	58.3
171	52.0	40.6	60.8



Instrument :
MSVOA_L
ClientSampleId :
VL0505ABS01

Manual Integrations
APPROVED

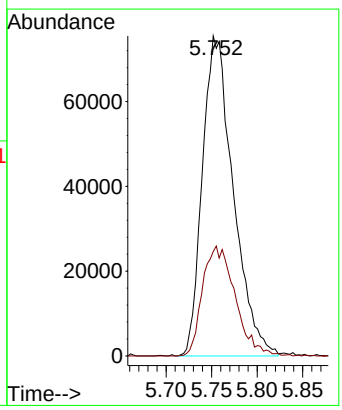
Reviewed By :Semsettin Yesilyurt 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

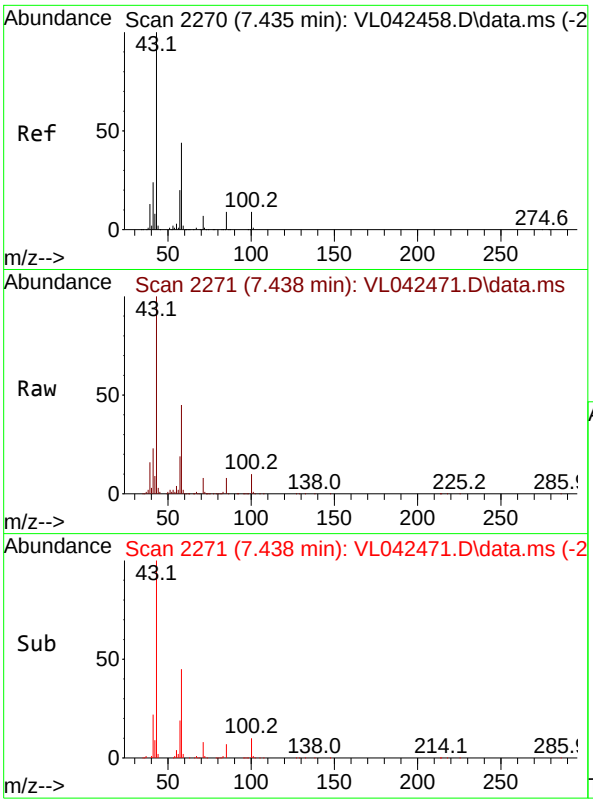


#50
4-Methyl-2-Pentanone
Concen: 9.433 ppbv
RT: 5.752 min Scan# 1750
Delta R.T. 0.003 min
Lab File: VL042471.D
Acq: 05 May 2025 10:07

Tgt Ion: 43 Resp: 177898

Ion	Ratio	Lower	Upper
43	100		
58	36.4	29.5	44.3

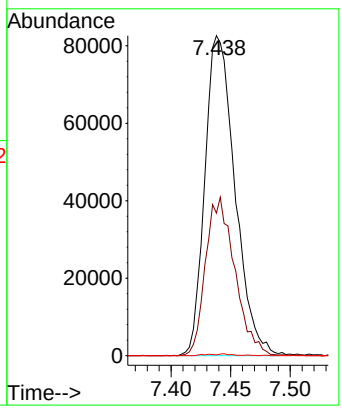




#51
2-Hexanone
Concen: 9.631 ppbv
RT: 7.438 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042471.D
Acq: 05 May 2025 10:07

Tgt Ion: 43 Resp: 14521

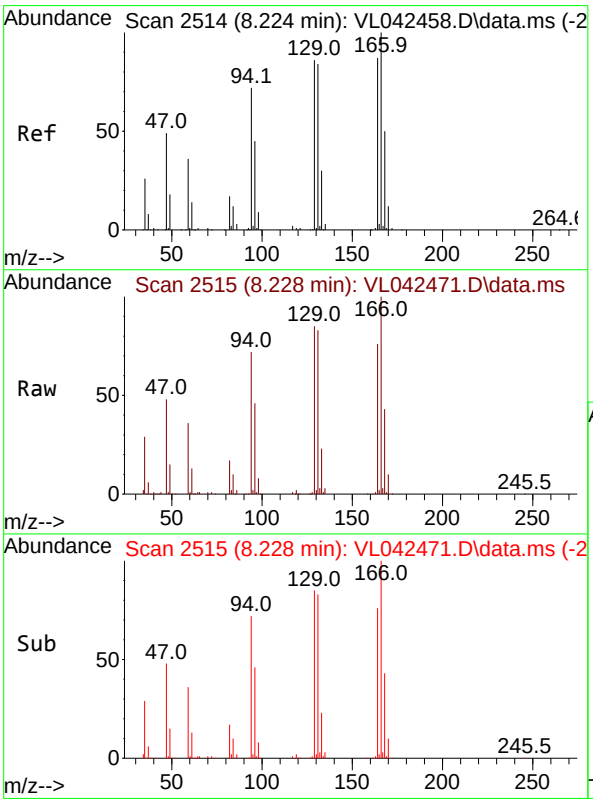
Ion	Ratio	Lower	Upper
43	100		
58	48.1	37.2	55.8
98	0.5	0.4	0.6



Instrument :
MSVOA_L
ClientSampleId :
VL0505ABS01

Manual Integrations
APPROVED

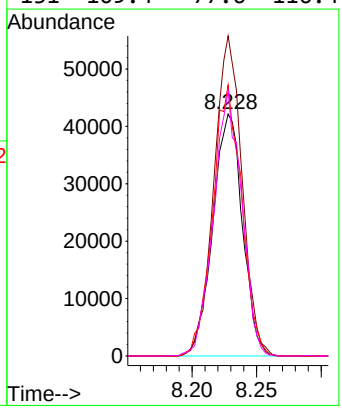
Reviewed By :Semsettin Yesilyurt 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

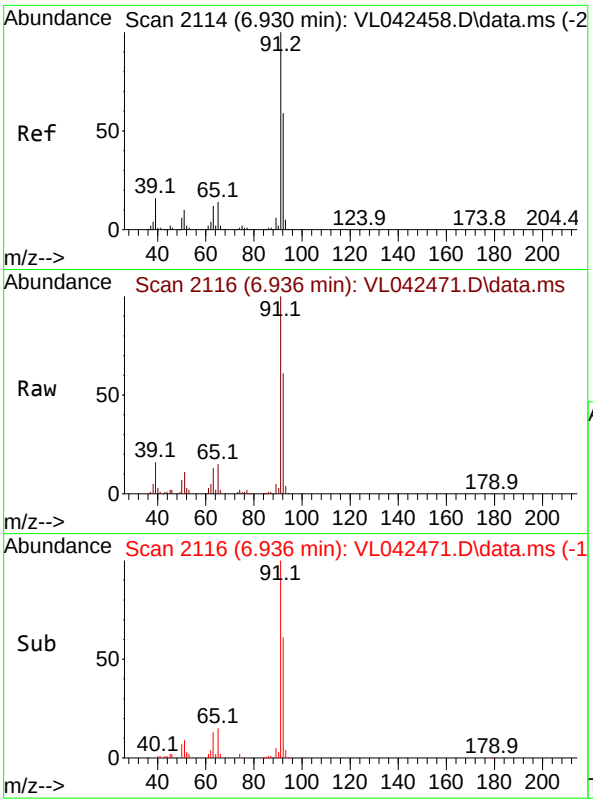


#52
Tetrachloroethene
Concen: 9.076 ppbv
RT: 8.228 min Scan# 2515
Delta R.T. 0.003 min
Lab File: VL042471.D
Acq: 05 May 2025 10:07

Tgt Ion:164 Resp: 67191

Ion	Ratio	Lower	Upper
164	100		
166	132.3	91.6	137.4
129	112.1	79.0	118.4
131	109.4	77.6	116.4





#53
Toluene
Concen: 10.434 ppbv
RT: 6.936 min Scan# 21
Delta R.T. 0.007 min
Lab File: VL042471.D
Acq: 05 May 2025 10:07

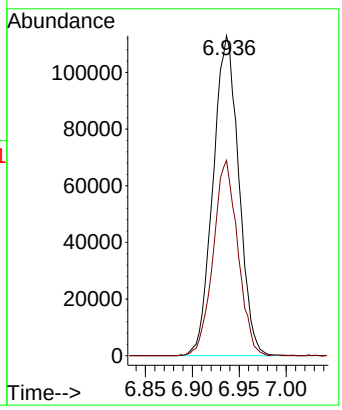
Tgt Ion: 91 Resp: 21481

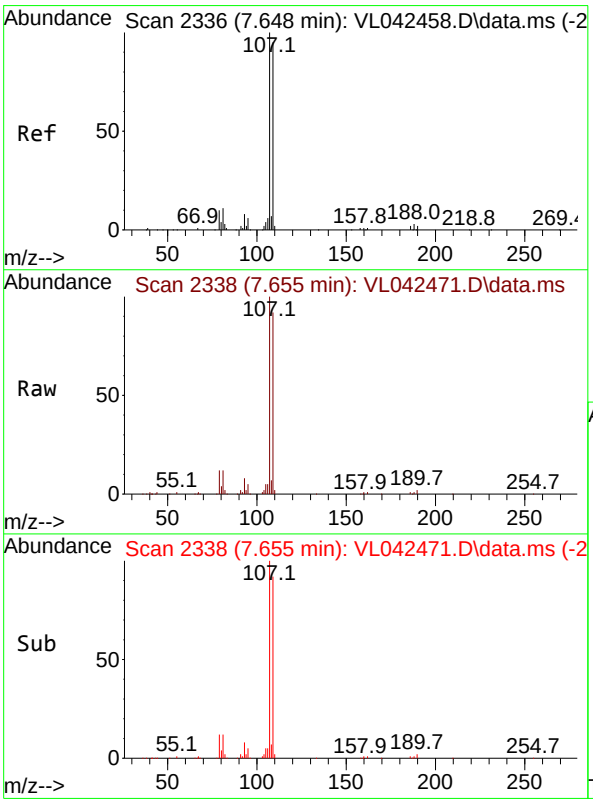
Ion	Ratio	Lower	Upper
91	100		
92	58.6	47.9	71.9

Instrument :
MSVOA_L
ClientSampleId :
VL0505ABS01

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

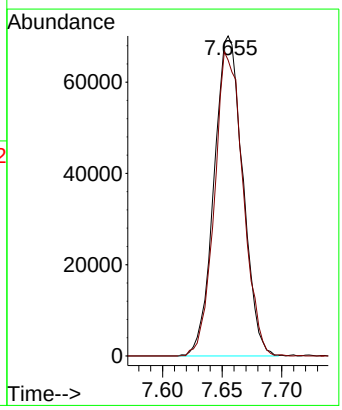


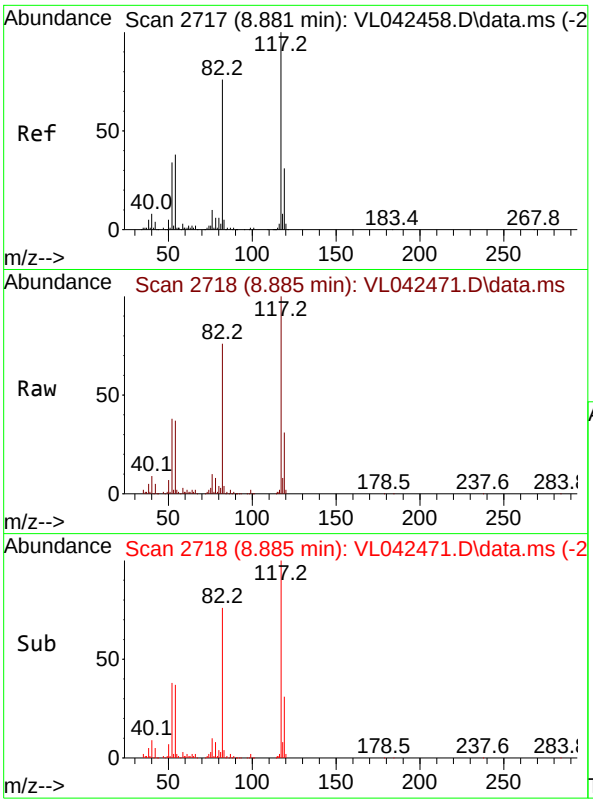


#54
1,2-Dibromoethane
Concen: 9.619 ppbv
RT: 7.655 min Scan# 2338
Delta R.T. 0.007 min
Lab File: VL042471.D
Acq: 05 May 2025 10:07

Tgt Ion:107 Resp: 117449

Ion	Ratio	Lower	Upper
107	100		
109	92.4	76.0	114.0

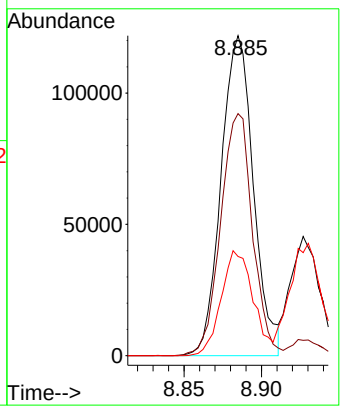




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.885 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042471.D
Acq: 05 May 2025 10:07

Tgt Ion:117 Resp: 17706

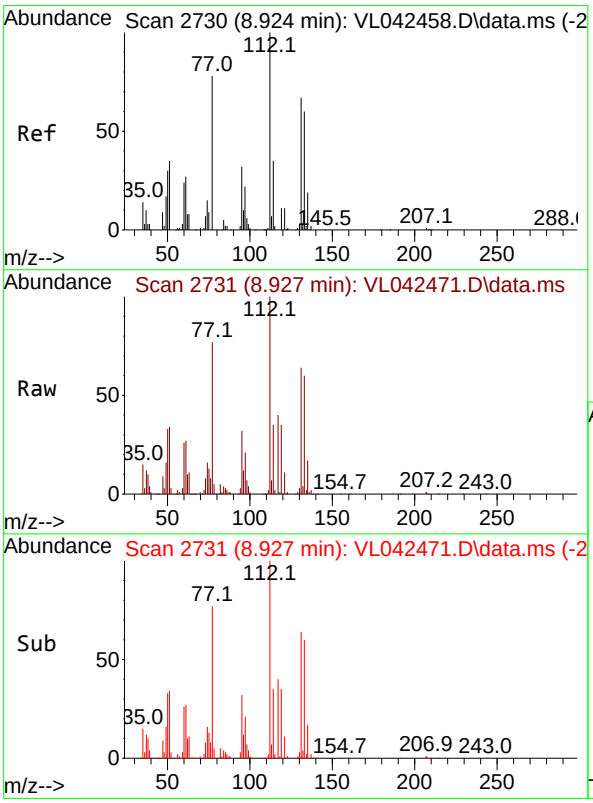
Ion	Ratio	Lower	Upper
117	100		
82	79.0	63.5	95.3
119	32.0	25.8	38.8



Instrument :
MSVOA_L
ClientSampleId :
VL0505ABS01

Manual Integrations
APPROVED

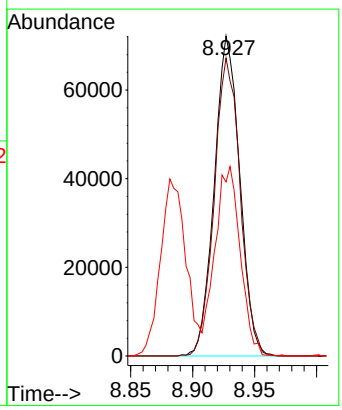
Reviewed By :Semsettin Yesilyurt 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

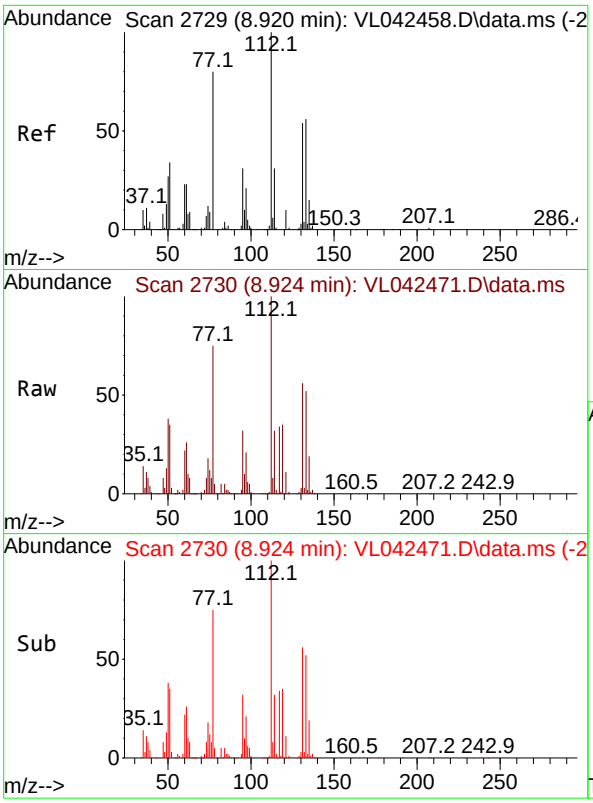


#56
1,1,1,2-Tetrachloroethane
Concen: 9.897 ppbv
RT: 8.927 min Scan# 2731
Delta R.T. 0.003 min
Lab File: VL042471.D
Acq: 05 May 2025 10:07

Tgt Ion:131 Resp: 103494

Ion	Ratio	Lower	Upper
131	100		
133	94.7	76.0	114.0
119	60.9	46.1	69.1

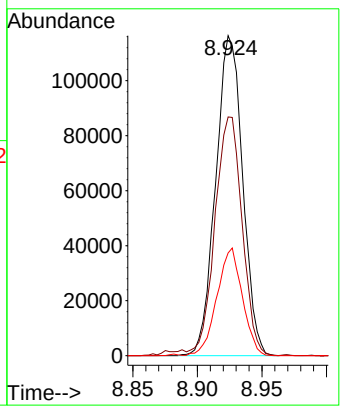




#57
Chlorobenzene
Concen: 9.495 ppbv
RT: 8.924 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042471.D
Acq: 05 May 2025 10:07

Tgt Ion:112 Resp: 16894

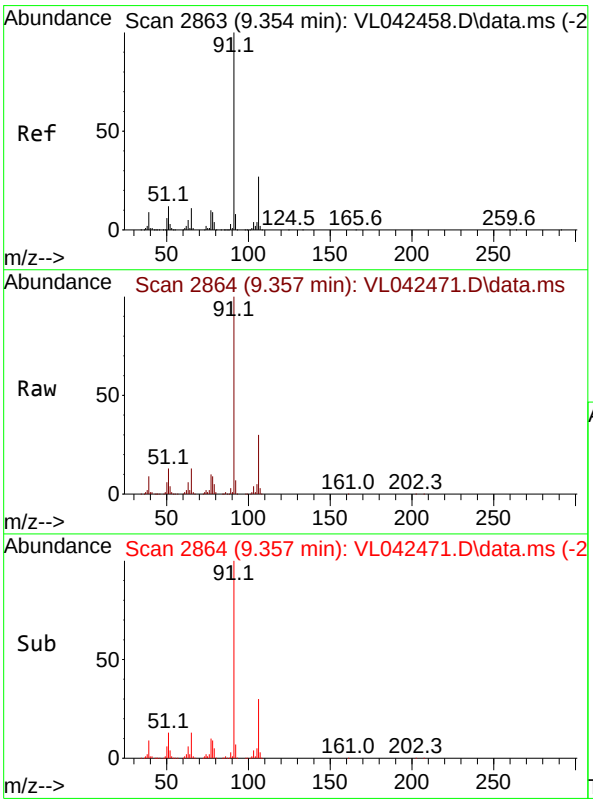
Ion	Ratio	Lower	Upper
112	100		
77	74.5	65.0	97.4
114	32.1	27.5	33.7



Instrument :
MSVOA_L
ClientSampleId :
VL0505ABS01

Manual Integrations
APPROVED

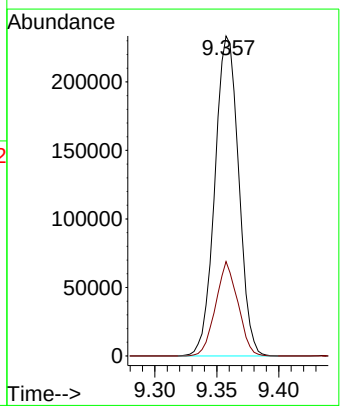
Reviewed By :Semsettin Yesilyurt 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

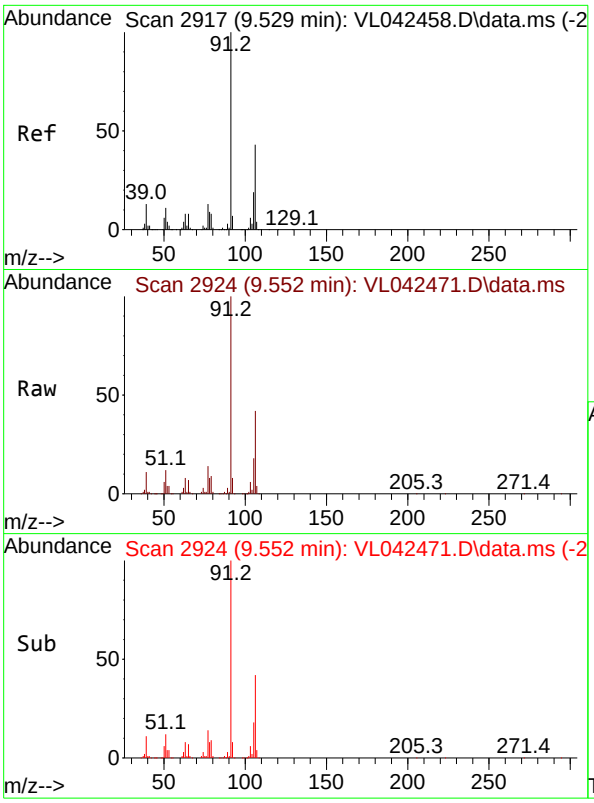


#58
Ethyl Benzene
Concen: 10.568 ppbv
RT: 9.357 min Scan# 2864
Delta R.T. 0.003 min
Lab File: VL042471.D
Acq: 05 May 2025 10:07

Tgt Ion: 91 Resp: 312698

Ion	Ratio	Lower	Upper
91	100		
106	29.5	21.9	32.9

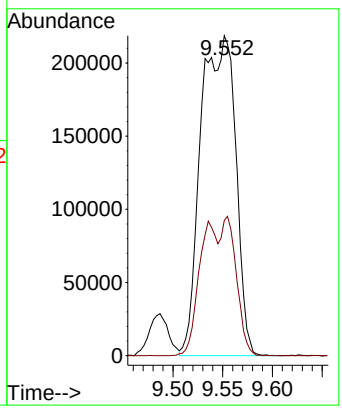




#59
m/p-Xylene
Concen: 21.473 ppbv m
RT: 9.552 min Scan# 2
Delta R.T. 0.023 min
Lab File: VL042471.D
Acq: 05 May 2025 10:07

Tgt Ion: 91 Resp: 53266

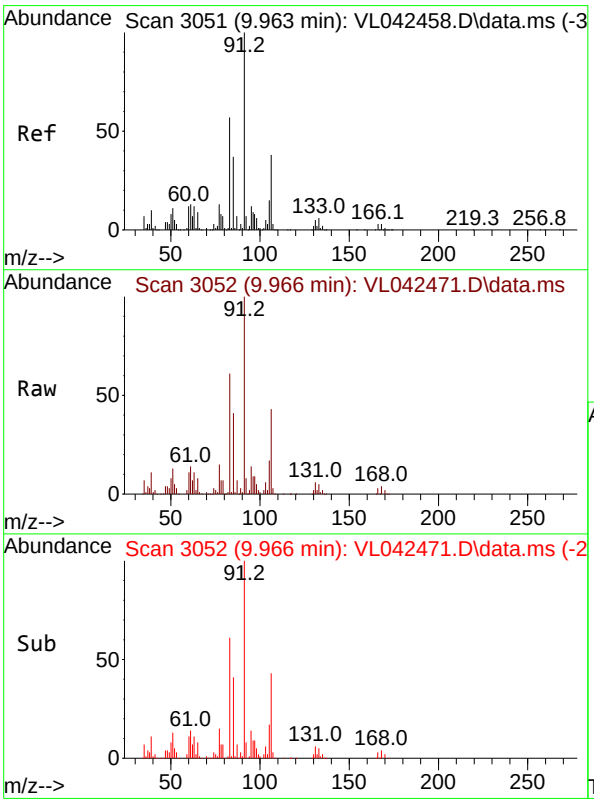
Ion	Ratio	Lower	Upper
91	100		
106	0.0	34.2	51.2#



Instrument :
MSVOA_L
ClientSampleId :
VL0505ABS01

Manual Integrations
APPROVED

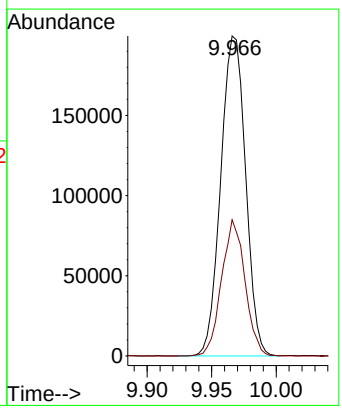
Reviewed By :Semsettin Yesilyurt 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

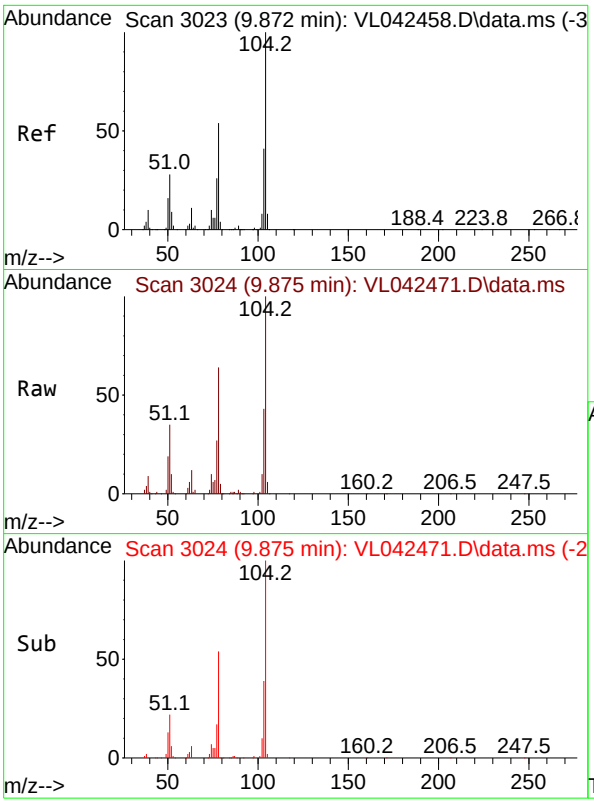


#60
o-Xylene
Concen: 10.758 ppbv
RT: 9.966 min Scan# 3052
Delta R.T. 0.003 min
Lab File: VL042471.D
Acq: 05 May 2025 10:07

Tgt Ion: 91 Resp: 267198

Ion	Ratio	Lower	Upper
91	100		
106	40.1	20.1	60.2

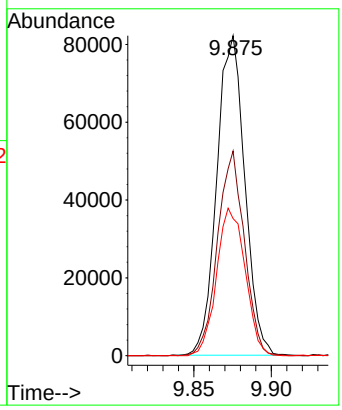




#61
Styrene
Concen: 11.138 ppbv
RT: 9.875 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042471.D
Acq: 05 May 2025 10:07

Tgt Ion:104 Resp: 10323

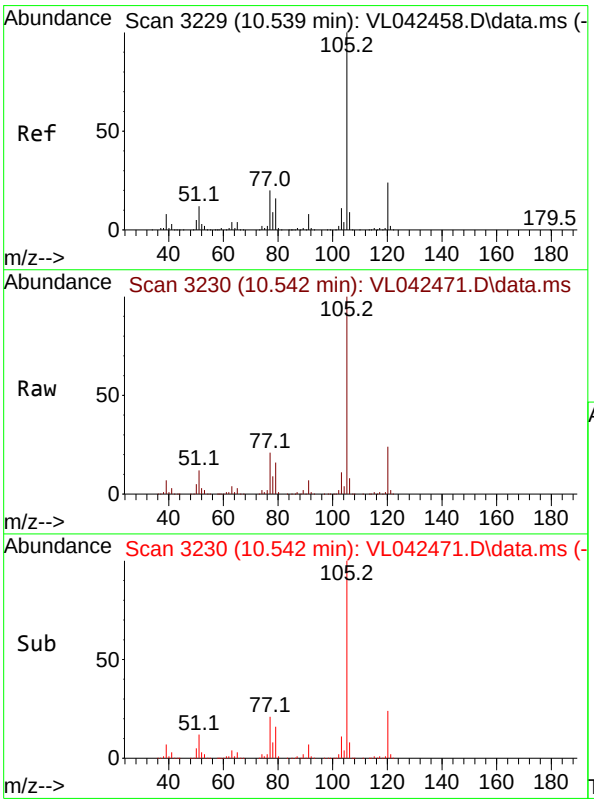
Ion	Ratio	Lower	Upper
104	100		
78	61.4	46.9	70.3
103	47.1	36.6	55.0



Instrument :
MSVOA_L
ClientSampleId :
VL0505ABS01

Manual Integrations
APPROVED

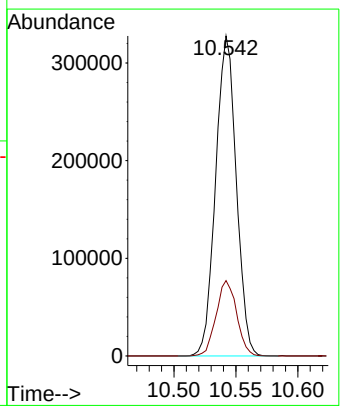
Reviewed By :Semsettin Yesilyurt 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

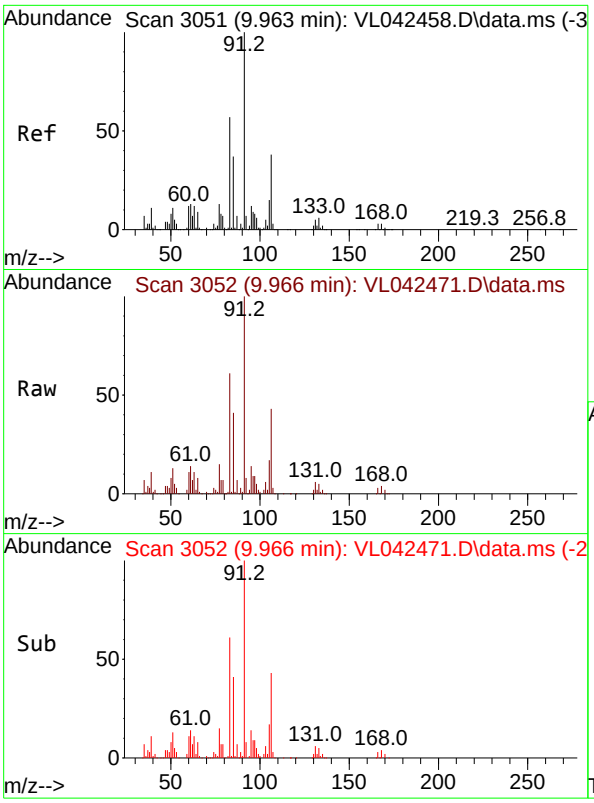


#62
Isopropylbenzene
Concen: 10.630 ppbv
RT: 10.542 min Scan# 3230
Delta R.T. 0.003 min
Lab File: VL042471.D
Acq: 05 May 2025 10:07

Tgt Ion:105 Resp: 380840

Ion	Ratio	Lower	Upper
105	100		
120	23.4	18.8	28.2

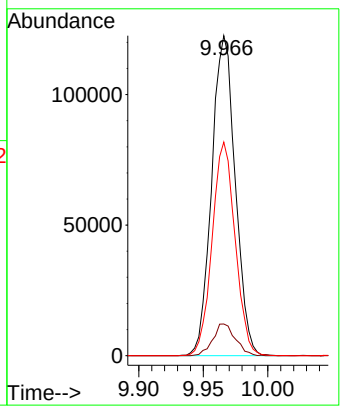




#63
1,1,2,2-Tetrachloroethane
Concen: 9.079 ppbv
RT: 9.966 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042471.D
Acq: 05 May 2025 10:07

Tgt Ion: 83 Resp: 15545

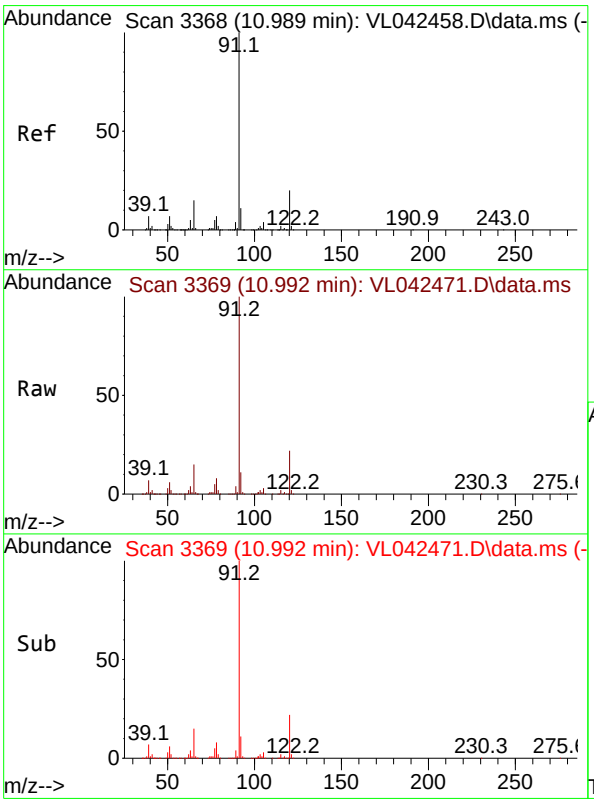
Ion	Ratio	Lower	Upper
83	100		
131	9.5	4.7	14.1
85	65.1	32.5	97.4



Instrument :
MSVOA_L
ClientSampleId :
VL0505ABS01

Manual Integrations
APPROVED

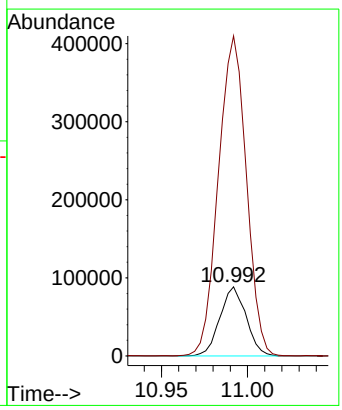
Reviewed By :Semsettin Yesilyurt 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

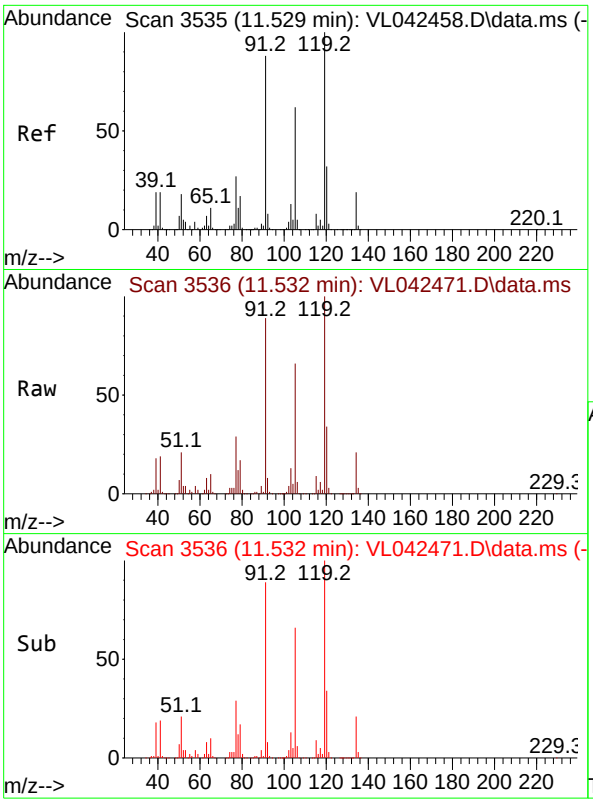


#64
n-propylbenzene
Concen: 10.714 ppbv
RT: 10.992 min Scan# 3369
Delta R.T. 0.003 min
Lab File: VL042471.D
Acq: 05 May 2025 10:07

Tgt Ion:120 Resp: 93814

Ion	Ratio	Lower	Upper
120	100		
91	495.0	408.6	612.8

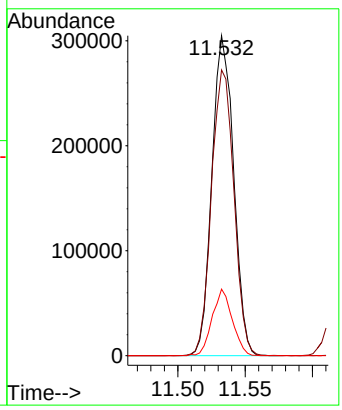




#65
tert-Butylbenzene
Concen: 10.697 ppbv
RT: 11.532 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042471.D
Acq: 05 May 2025 10:07

Tgt Ion:119 Resp: 34201

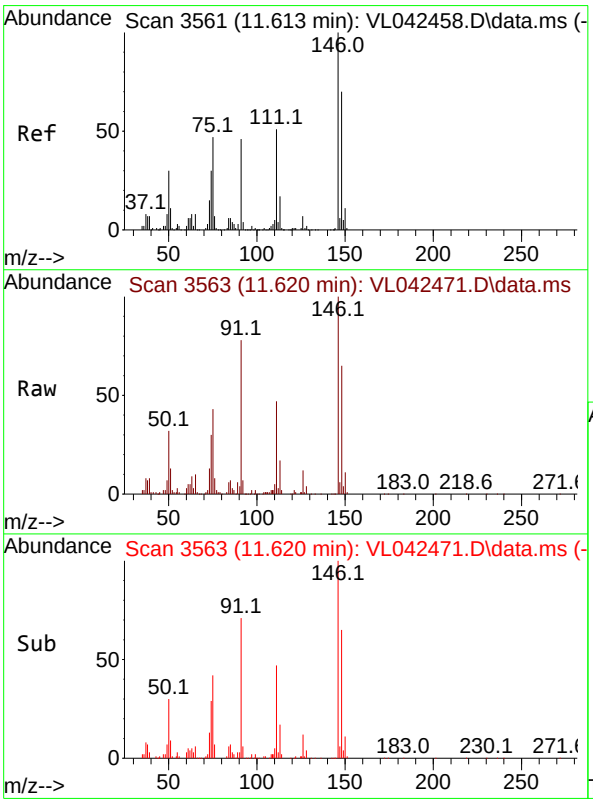
Ion	Ratio	Lower	Upper
119	100		
91	92.3	71.6	107.4
134	19.3	15.0	22.4



Instrument :
MSVOA_L
ClientSampleId :
VL0505ABS01

Manual Integrations
APPROVED

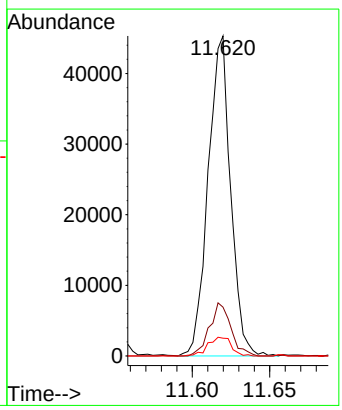
Reviewed By :Semsettin Yesilyurt 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

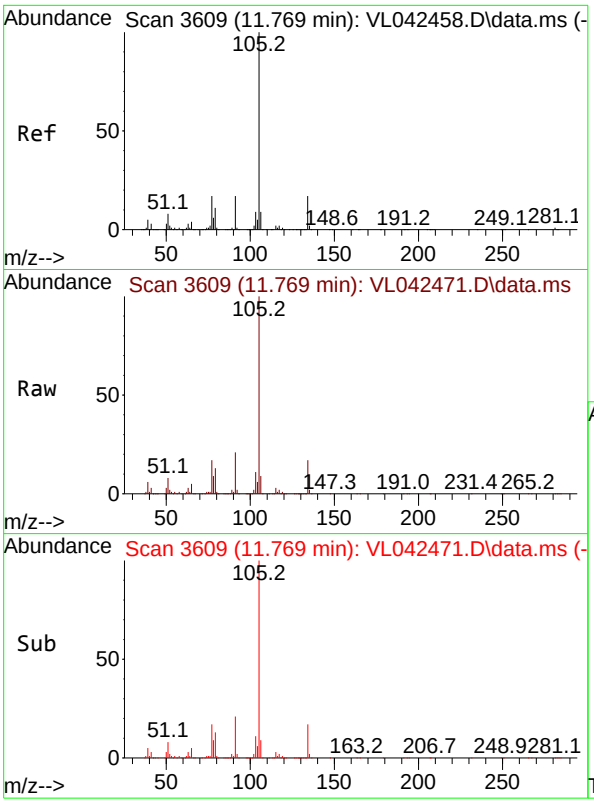


#66
Benzyl Chloride
Concen: 12.370 ppbv
RT: 11.620 min Scan# 3563
Delta R.T. 0.007 min
Lab File: VL042471.D
Acq: 05 May 2025 10:07

Tgt Ion: 91 Resp: 45711

Ion	Ratio	Lower	Upper
91	100		
126	15.7	13.3	19.9
128	6.1	4.2	6.4





#67
sec-Butylbenzene
Concen: 10.565 ppbv
RT: 11.769 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042471.D
Acq: 05 May 2025 10:07

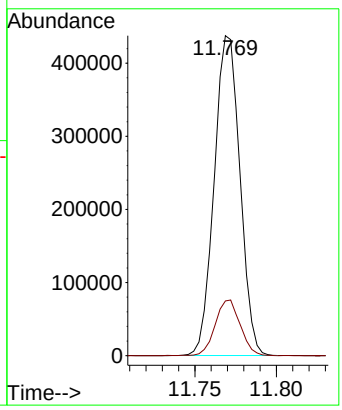
Tgt Ion:105 Resp: 48000

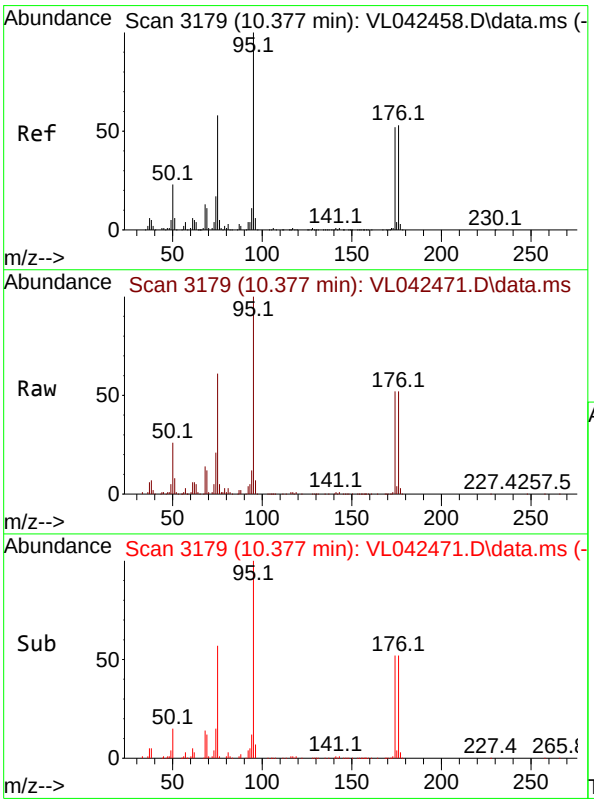
Ion	Ratio	Lower	Upper
105	100		
134	17.0	14.1	21.1

Instrument :
MSVOA_L
ClientSampleId :
VL0505ABS01

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

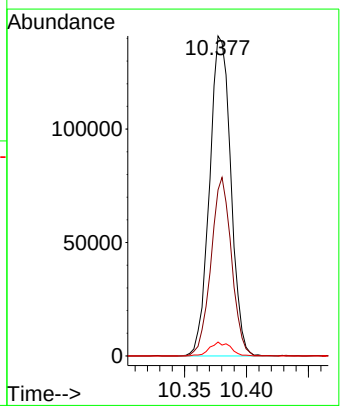


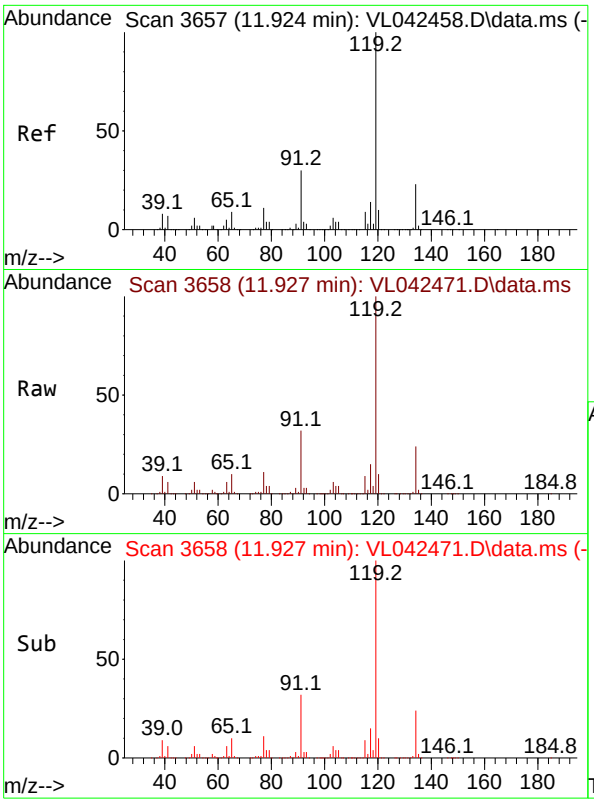


#68
1-Bromo-4-Fluorobenzene
Concen: 10.273 ppbv
RT: 10.377 min Scan# 3179
Delta R.T. 0.000 min
Lab File: VL042471.D
Acq: 05 May 2025 10:07

Tgt Ion: 95 Resp: 168649

Ion	Ratio	Lower	Upper
95	100		
174	54.0	42.7	64.1
175	4.3	3.6	5.4

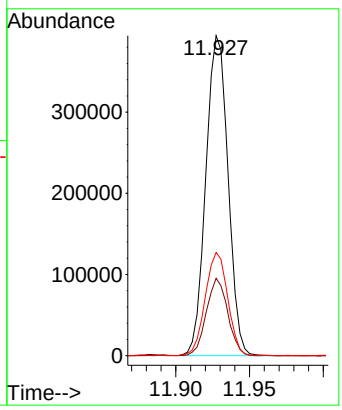




#69
p-Isopropyltoluene
Concen: 10.786 ppbv
RT: 11.927 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042471.D
Acq: 05 May 2025 10:07

Tgt Ion:119 Resp: 41288

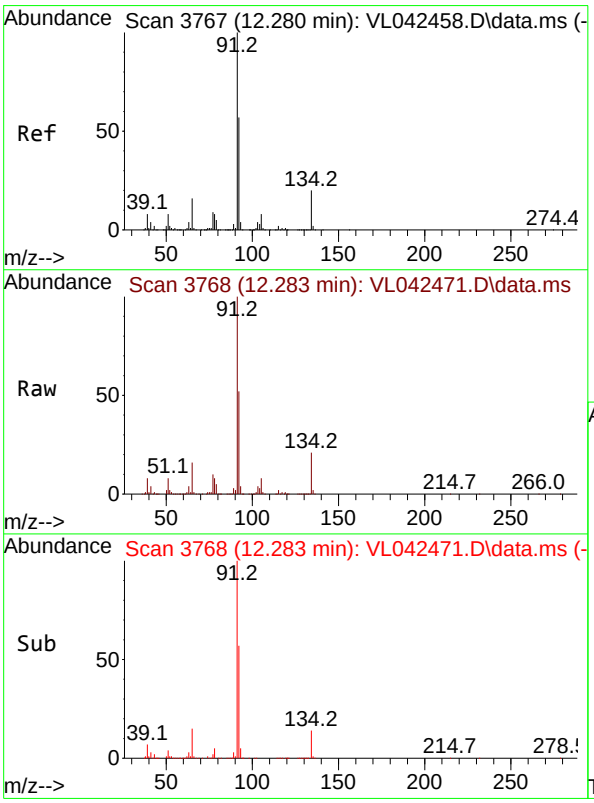
Ion	Ratio	Lower	Upper
119	100		
134	23.4	19.0	28.4
91	32.8	25.5	38.3



Instrument :
MSVOA_L
ClientSampleId :
VL0505ABS01

Manual Integrations
APPROVED

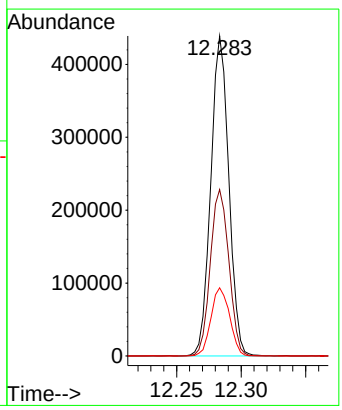
Reviewed By :Semsettin Yesilyurt 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

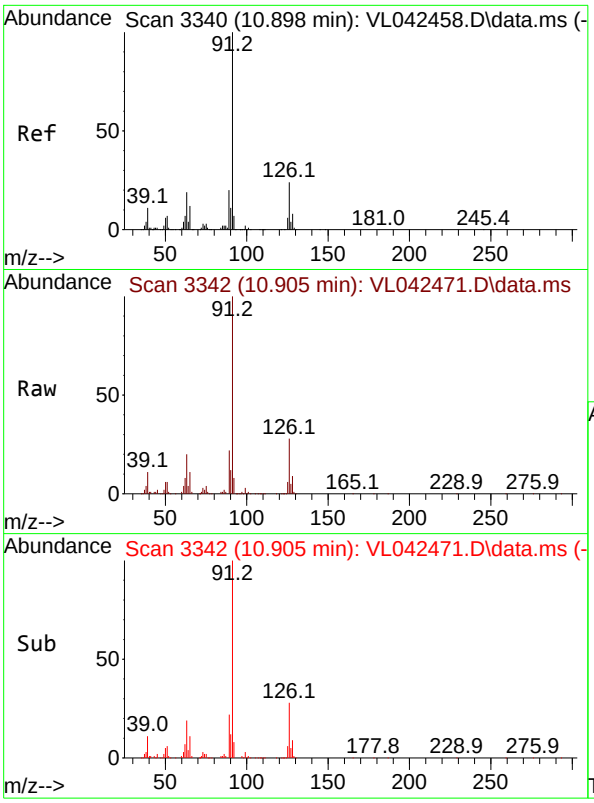


#70
n-Butylbenzene
Concen: 10.756 ppbv
RT: 12.283 min Scan# 3768
Delta R.T. 0.003 min
Lab File: VL042471.D
Acq: 05 May 2025 10:07

Tgt Ion: 91 Resp: 425652

Ion	Ratio	Lower	Upper
91	100		
92	53.5	44.0	66.0
134	22.1	16.8	25.2

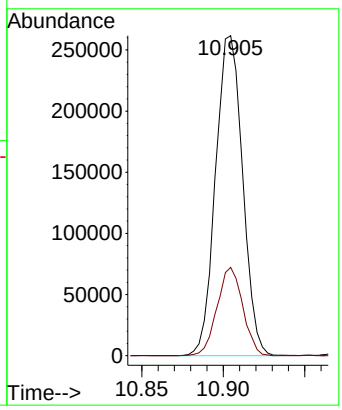




#71
2-Chlorotoluene
Concen: 10.741 ppbv
RT: 10.905 min Scan# 3
Delta R.T. 0.007 min
Lab File: VL042471.D
Acq: 05 May 2025 10:07

Tgt Ion: 91 Resp: 30181

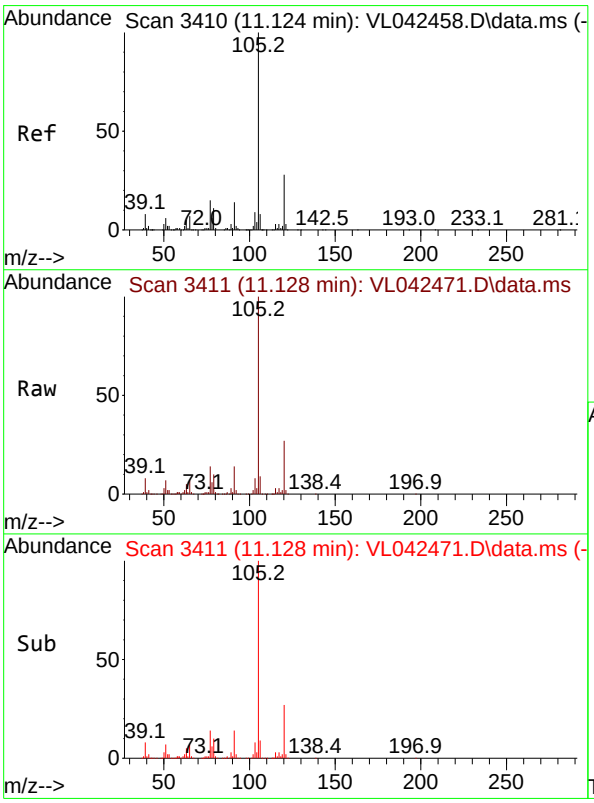
Ion	Ratio	Lower	Upper
91	100		
126	26.2	10.6	42.2



Instrument :
MSVOA_L
ClientSampleId :
VL0505ABS01

Manual Integrations
APPROVED

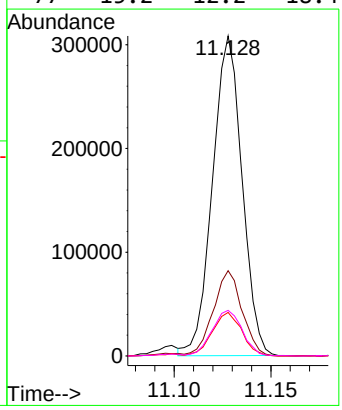
Reviewed By :Semsettin Yesilyurt 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

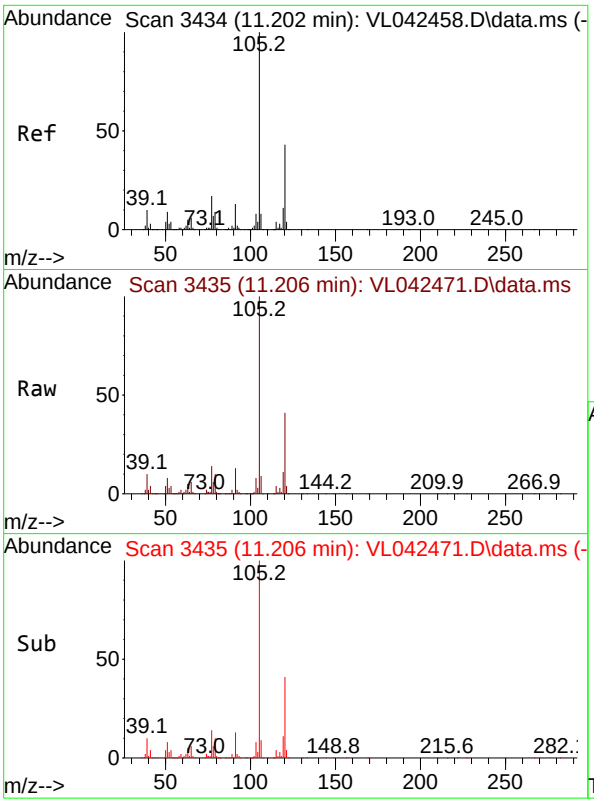


#72
4-Ethyltoluene
Concen: 11.161 ppbv
RT: 11.128 min Scan# 3411
Delta R.T. 0.003 min
Lab File: VL042471.D
Acq: 05 May 2025 10:07

Tgt Ion:105 Resp: 326835

Ion	Ratio	Lower	Upper
105	100		
120	26.8	22.0	33.0
91	14.2	11.2	16.8
77	15.2	12.2	18.4

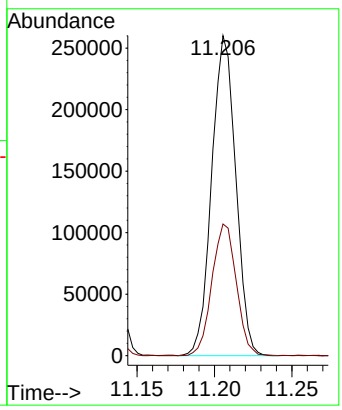




#73
1,3,5-Trimethylbenzene
Concen: 10.900 ppbv
RT: 11.206 min Scan# 34
Delta R.T. 0.003 min
Lab File: VL042471.D
Acq: 05 May 2025 10:07

Tgt Ion:105 Resp: 28071

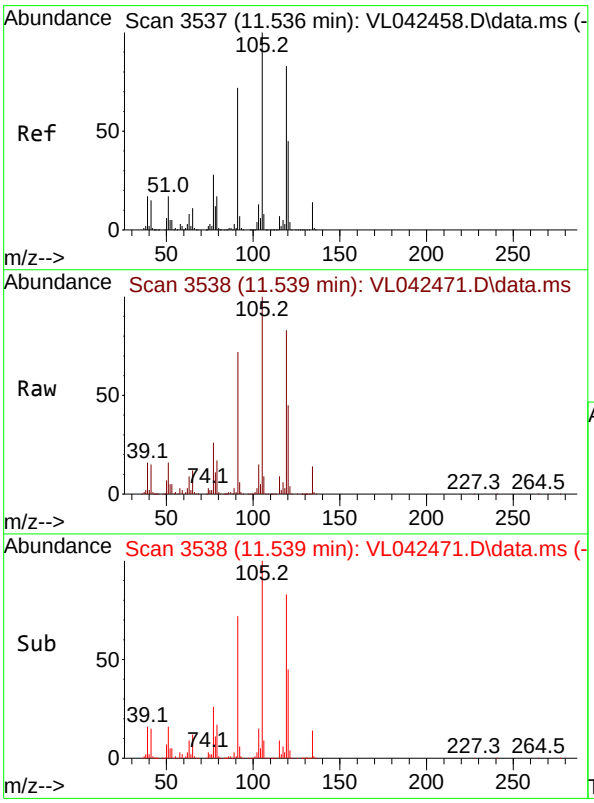
Ion	Ratio	Lower	Upper
105	100		
120	41.2	34.4	51.6



Instrument :
MSVOA_L
ClientSampleId :
VL0505ABS01

Manual Integrations
APPROVED

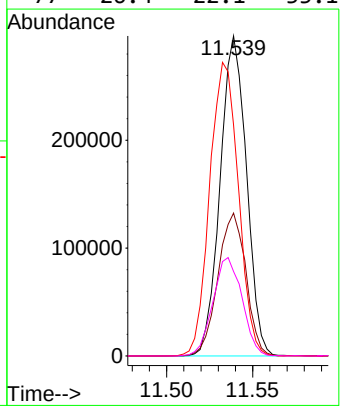
Reviewed By :Semsettin Yesilyurt 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

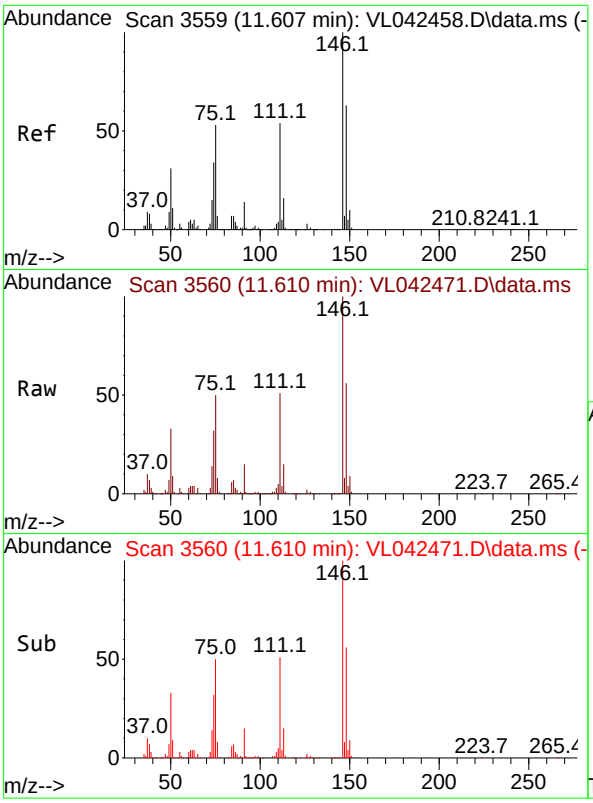


#74
1,2,4-Trimethylbenzene
Concen: 10.143 ppbv
RT: 11.539 min Scan# 3538
Delta R.T. 0.003 min
Lab File: VL042471.D
Acq: 05 May 2025 10:07

Tgt Ion:105 Resp: 316052

Ion	Ratio	Lower	Upper
105	100		
120	44.6	36.1	54.1
91	72.2	57.6	86.4
77	26.4	22.1	33.1





#75
1,3-Dichlorobenzene
Concen: 10.046 ppbv
RT: 11.610 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042471.D
Acq: 05 May 2025 10:07

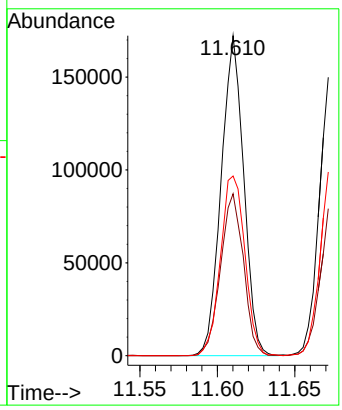
Tgt Ion:146 Resp: 17427

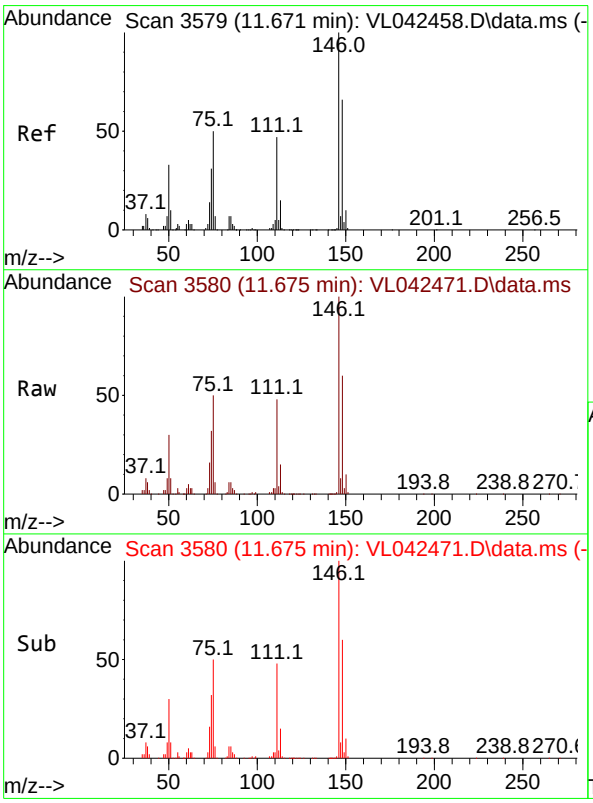
Ion	Ratio	Lower	Upper
146	100		
111	51.5	26.1	78.3
148	61.0	32.0	96.0

Instrument :
MSVOA_L
ClientSampleId :
VL0505ABS01

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

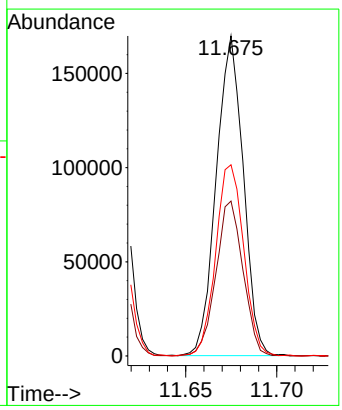


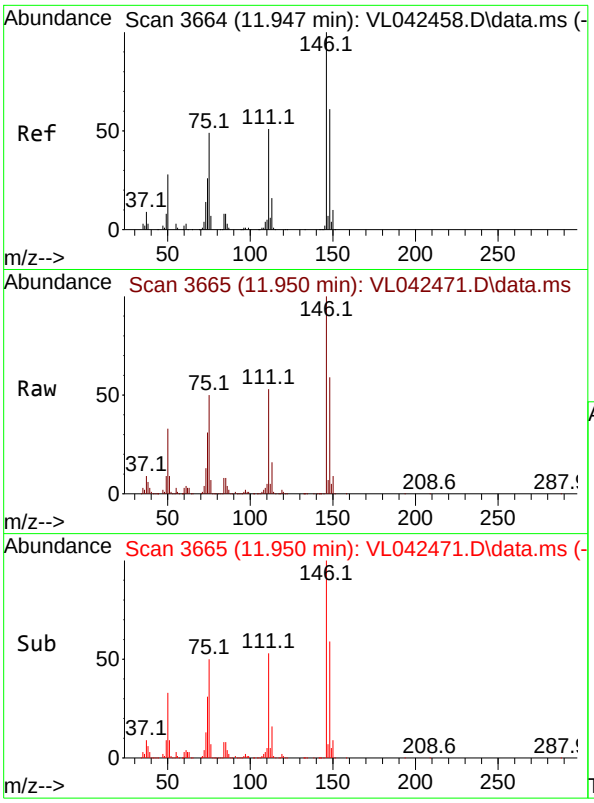


#76
1,4-Dichlorobenzene
Concen: 10.651 ppbv
RT: 11.675 min Scan# 3580
Delta R.T. 0.003 min
Lab File: VL042471.D
Acq: 05 May 2025 10:07

Tgt Ion:146 Resp: 174860

Ion	Ratio	Lower	Upper
146	100		
111	48.7	24.4	73.2
148	62.1	32.0	96.2

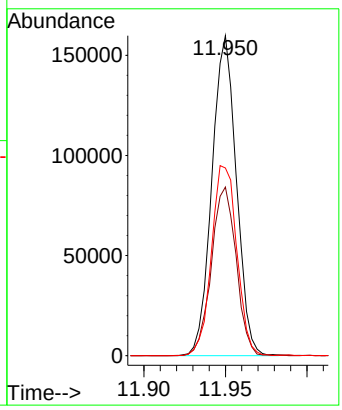




#77
1,2-Dichlorobenzene
Concen: 9.801 ppbv
RT: 11.950 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042471.D
Acq: 05 May 2025 10:07

Tgt Ion:146 Resp: 16642

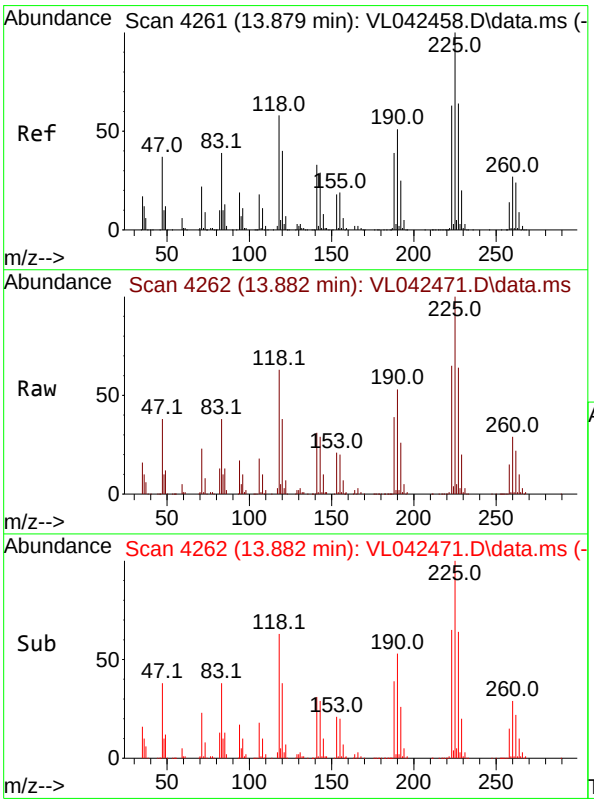
Ion	Ratio	Lower	Upper
146	100		
111	53.6	26.5	79.5
148	61.7	31.5	94.5



Instrument :
MSVOA_L
ClientSampleId :
VL0505ABS01

Manual Integrations
APPROVED

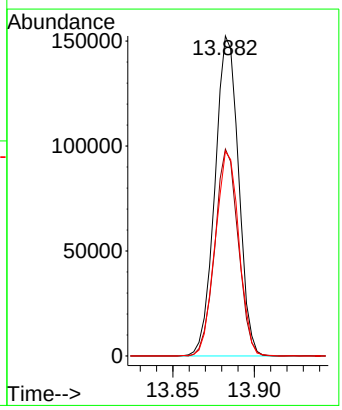
Reviewed By :Semsettin Yesilyurt 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

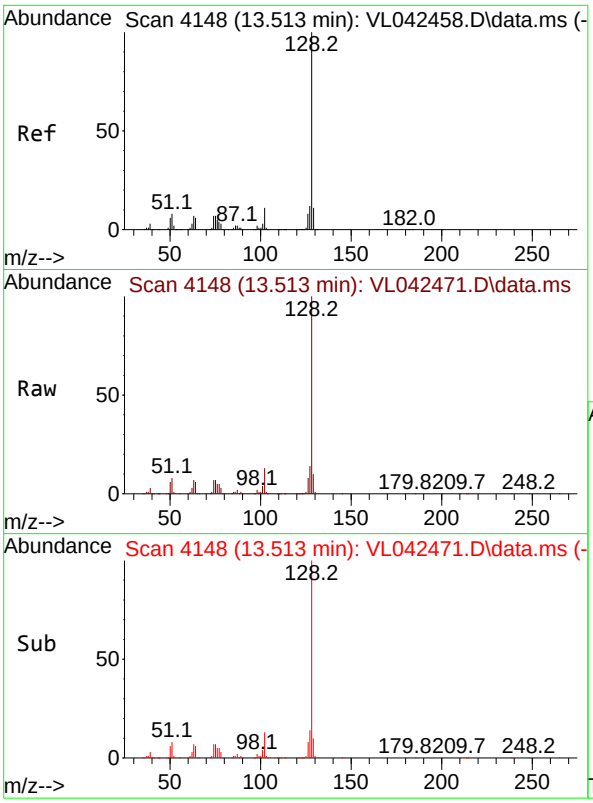


#78
Hexachloro-1,3-Butadiene
Concen: 9.032 ppbv
RT: 13.882 min Scan# 4262
Delta R.T. 0.003 min
Lab File: VL042471.D
Acq: 05 May 2025 10:07

Tgt Ion:225 Resp: 153156

Ion	Ratio	Lower	Upper
225	100		
223	63.9	50.2	75.4
227	64.5	51.2	76.8

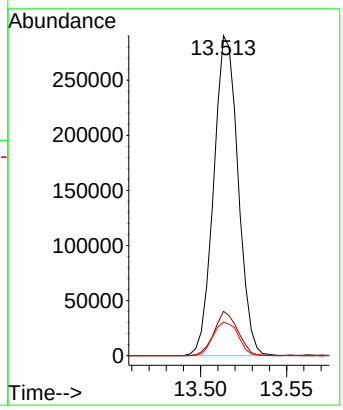




#79
Naphthalene
Concen: 10.911 ppbv
RT: 13.513 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042471.D
Acq: 05 May 2025 10:07

Tgt Ion:128 Resp: 28621

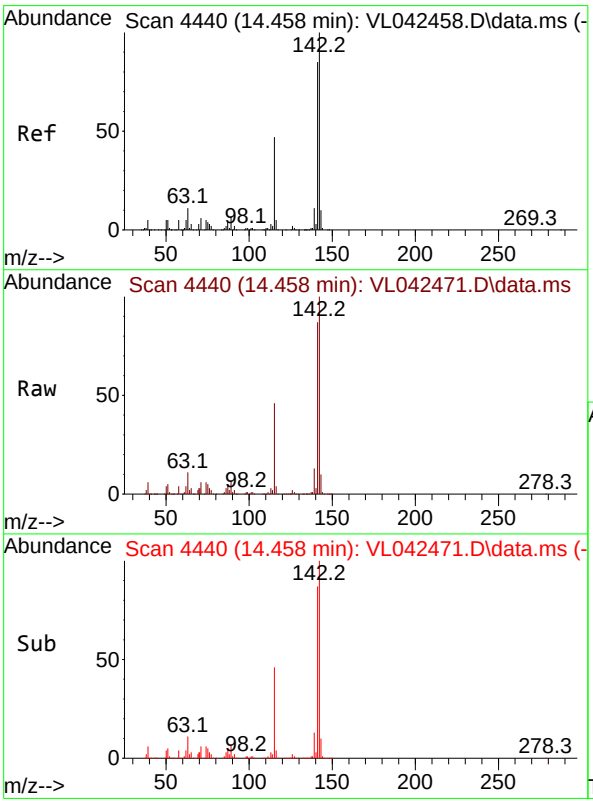
Ion	Ratio	Lower	Upper
128	100		
127	13.9	9.7	14.5
129	10.5	8.6	13.0



Instrument :
MSVOA_L
ClientSampleId :
VL0505ABS01

Manual Integrations
APPROVED

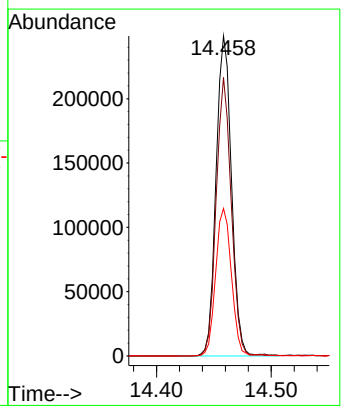
Reviewed By :Semsettin Yesilyurt 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

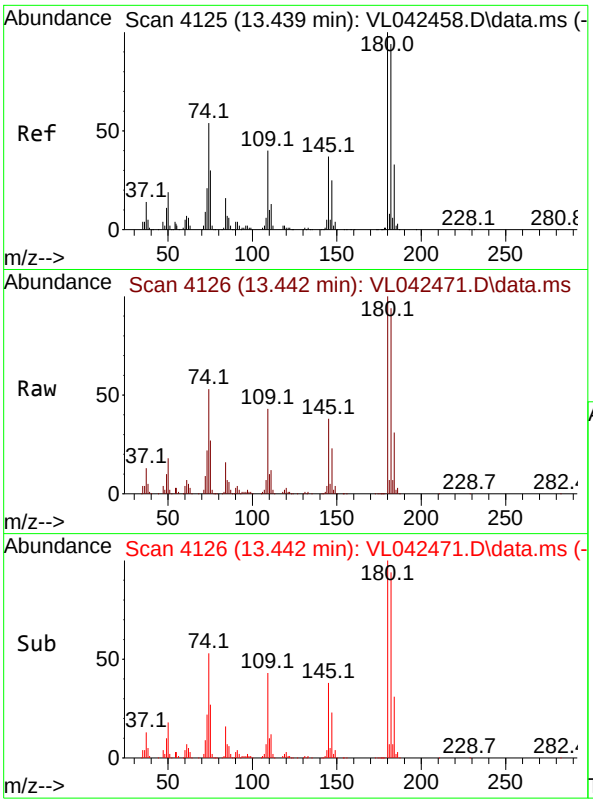


#80
Naphthalene,2-methyl-
Concen: 11.932 ppbv
RT: 14.458 min Scan# 4440
Delta R.T. 0.000 min
Lab File: VL042471.D
Acq: 05 May 2025 10:07

Tgt Ion:142 Resp: 232641

Ion	Ratio	Lower	Upper
142	100		
141	85.1	67.4	101.0
115	47.3	36.9	55.3

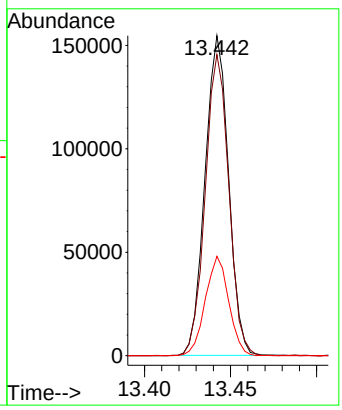




#81
1,2,4-Trichlorobenzene
Concen: 10.513 ppbv
RT: 13.442 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL042471.D
Acq: 05 May 2025 10:07

Tgt Ion:180 Resp: 14708

Ion	Ratio	Lower	Upper
180	100		
182	94.3	74.6	111.8
184	31.0	24.9	37.3



Instrument :
MSVOA_L
ClientSampleId :
VL0505ABS01

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

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

Manual Integration Report

Sequence:	VL050125	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICCC010	VL042458.D	1,4-Dioxane	SAM	5/2/2025 7:56:35 AM	MMDadoda	5/5/2025 2:55:42 PM	Peak Integrated by Software
VSTDICCC010	VL042458.D	m/p-Xylene	SAM	5/2/2025 7:56:35 AM	MMDadoda	5/5/2025 2:55:42 PM	Peak Integrated by Software
VSTDICC002	VL042459.D	1,1,2-Trichloroethane	SAM	5/2/2025 7:56:42 AM	MMDadoda	5/5/2025 2:55:44 PM	Peak Integrated by Software
VSTDICC002	VL042459.D	1,4-Dioxane	SAM	5/2/2025 7:56:42 AM	MMDadoda	5/5/2025 2:55:44 PM	Peak Integrated by Software
VSTDICC002	VL042459.D	Heptane	SAM	5/2/2025 7:56:42 AM	MMDadoda	5/5/2025 2:55:44 PM	Peak Integrated by Software
VSTDICC002	VL042459.D	m/p-Xylene	SAM	5/2/2025 7:56:42 AM	MMDadoda	5/5/2025 2:55:44 PM	Peak Integrated by Software
VSTDICC002	VL042459.D	Methyl Methacrylate	SAM	5/2/2025 7:56:42 AM	MMDadoda	5/5/2025 2:55:44 PM	Peak Integrated by Software
VSTDICC002	VL042459.D	t-1,3-Dichloropropene	SAM	5/2/2025 7:56:42 AM	MMDadoda	5/5/2025 2:55:44 PM	Peak Integrated by Software
VSTDICC002	VL042459.D	Tetrahydrofuran	SAM	5/2/2025 7:56:42 AM	MMDadoda	5/5/2025 2:55:44 PM	Peak Integrated by Software
VSTDICC002	VL042459.D	Trichloroethene	SAM	5/2/2025 7:56:42 AM	MMDadoda	5/5/2025 2:55:44 PM	Peak Integrated by Software
VSTDICC001	VL042460.D	1,1,2-Trichloroethane	SAM	5/2/2025 7:58:04 AM	MMDadoda	5/5/2025 2:55:47 PM	Peak Integrated by Software
VSTDICC001	VL042460.D	1,2-Dichloropropane	SAM	5/2/2025 7:58:04 AM	MMDadoda	5/5/2025 2:55:47 PM	Peak Integrated by Software
VSTDICC001	VL042460.D	1,4-Dioxane	SAM	5/2/2025 7:58:04 AM	MMDadoda	5/5/2025 2:55:47 PM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	VL050125	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC001	VL042460.D	2,2,4-Trimethylpentane	SAM	5/2/2025 7:58:04 AM	MMDadoda	5/5/2025 2:55:47 PM	Peak Integrated by Software
VSTDICC001	VL042460.D	2-Hexanone	SAM	5/2/2025 7:58:04 AM	MMDadoda	5/5/2025 2:55:47 PM	Peak Integrated by Software
VSTDICC001	VL042460.D	4-Methyl-2-Pentanone	SAM	5/2/2025 7:58:04 AM	MMDadoda	5/5/2025 2:55:47 PM	Peak Integrated by Software
VSTDICC001	VL042460.D	cis-1,3-Dichloropropene	SAM	5/2/2025 7:58:04 AM	MMDadoda	5/5/2025 2:55:47 PM	Peak Integrated by Software
VSTDICC001	VL042460.D	Dibromochloromethane	SAM	5/2/2025 7:58:04 AM	MMDadoda	5/5/2025 2:55:47 PM	Peak Integrated by Software
VSTDICC001	VL042460.D	Heptane	SAM	5/2/2025 7:58:04 AM	MMDadoda	5/5/2025 2:55:47 PM	Peak Integrated by Software
VSTDICC001	VL042460.D	m/p-Xylene	SAM	5/2/2025 7:58:04 AM	MMDadoda	5/5/2025 2:55:47 PM	Peak Integrated by Software
VSTDICC001	VL042460.D	Methyl Methacrylate	SAM	5/2/2025 7:58:04 AM	MMDadoda	5/5/2025 2:55:47 PM	Peak Integrated by Software
VSTDICC001	VL042460.D	t-1,3-Dichloropropene	SAM	5/2/2025 7:58:04 AM	MMDadoda	5/5/2025 2:55:47 PM	Peak Integrated by Software
VSTDICC001	VL042460.D	Tetrahydrofuran	SAM	5/2/2025 7:58:04 AM	MMDadoda	5/5/2025 2:55:47 PM	Peak Integrated by Software
VSTDICC001	VL042460.D	Trichloroethene	SAM	5/2/2025 7:58:04 AM	MMDadoda	5/5/2025 2:55:47 PM	Peak Integrated by Software
VSTDICC001	VL042460.D	Trichlorofluoromethane	SAM	5/2/2025 7:58:04 AM	MMDadoda	5/5/2025 2:55:47 PM	Peak Integrated by Software
VSTDICC0.5	VL042461.D	1,1,1-Trichloroethane	SAM	5/2/2025 7:56:59 AM	MMDadoda	5/5/2025 2:55:50 PM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	VL050125	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC0.5	VL042461.D	1,1,2-Trichloroethane	SAM	5/2/2025 7:56:59 AM	MMDadoda	5/5/2025 2:55:50 PM	Peak Integrated by Software
VSTDICC0.5	VL042461.D	1,2-Dichloropropane	SAM	5/2/2025 7:56:59 AM	MMDadoda	5/5/2025 2:55:50 PM	Peak Integrated by Software
VSTDICC0.5	VL042461.D	1,4-Dioxane	SAM	5/2/2025 7:56:59 AM	MMDadoda	5/5/2025 2:55:50 PM	Peak Integrated by Software
VSTDICC0.5	VL042461.D	2,2,4-Trimethylpentane	SAM	5/2/2025 7:56:59 AM	MMDadoda	5/5/2025 2:55:50 PM	Peak Integrated by Software
VSTDICC0.5	VL042461.D	2-Hexanone	SAM	5/2/2025 7:56:59 AM	MMDadoda	5/5/2025 2:55:50 PM	Peak Integrated by Software
VSTDICC0.5	VL042461.D	4-Methyl-2-Pentanone	SAM	5/2/2025 7:56:59 AM	MMDadoda	5/5/2025 2:55:50 PM	Peak Integrated by Software
VSTDICC0.5	VL042461.D	Benzyl Chloride	SAM	5/2/2025 7:56:59 AM	MMDadoda	5/5/2025 2:55:50 PM	Peak Integrated by Software
VSTDICC0.5	VL042461.D	cis-1,2-Dichloroethene	SAM	5/2/2025 7:56:59 AM	MMDadoda	5/5/2025 2:55:50 PM	Peak Integrated by Software
VSTDICC0.5	VL042461.D	cis-1,3-Dichloropropene	SAM	5/2/2025 7:56:59 AM	MMDadoda	5/5/2025 2:55:50 PM	Peak Integrated by Software
VSTDICC0.5	VL042461.D	Cyclohexane	SAM	5/2/2025 7:56:59 AM	MMDadoda	5/5/2025 2:55:50 PM	Peak Integrated by Software
VSTDICC0.5	VL042461.D	Dibromochloromethane	SAM	5/2/2025 7:56:59 AM	MMDadoda	5/5/2025 2:55:50 PM	Peak Integrated by Software
VSTDICC0.5	VL042461.D	Ethanol	SAM	5/2/2025 7:56:59 AM	MMDadoda	5/5/2025 2:55:50 PM	Peak Integrated by Software
VSTDICC0.5	VL042461.D	Heptane	SAM	5/2/2025 7:56:59 AM	MMDadoda	5/5/2025 2:55:50 PM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	VL050125	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC0.5	VL042461.D	m/p-Xylene	SAM	5/2/2025 7:56:59 AM	MMDadoda	5/5/2025 2:55:50 PM	Peak Integrated by Software
VSTDICC0.5	VL042461.D	Methyl Methacrylate	SAM	5/2/2025 7:56:59 AM	MMDadoda	5/5/2025 2:55:50 PM	Peak Integrated by Software
VSTDICC0.5	VL042461.D	n-propylbenzene	SAM	5/2/2025 7:56:59 AM	MMDadoda	5/5/2025 2:55:50 PM	Peak Integrated by Software
VSTDICC0.5	VL042461.D	Naphthalene	SAM	5/2/2025 7:56:59 AM	MMDadoda	5/5/2025 2:55:50 PM	Peak Integrated by Software
VSTDICC0.5	VL042461.D	o-Xylene	SAM	5/2/2025 7:56:59 AM	MMDadoda	5/5/2025 2:55:50 PM	Peak Integrated by Software
VSTDICC0.5	VL042461.D	Styrene	SAM	5/2/2025 7:56:59 AM	MMDadoda	5/5/2025 2:55:50 PM	Peak Integrated by Software
VSTDICC0.5	VL042461.D	t-1,3-Dichloropropene	SAM	5/2/2025 7:56:59 AM	MMDadoda	5/5/2025 2:55:50 PM	Peak Integrated by Software
VSTDICC0.5	VL042461.D	Tetrachloroethene	SAM	5/2/2025 7:56:59 AM	MMDadoda	5/5/2025 2:55:50 PM	Peak Integrated by Software
VSTDICC0.5	VL042461.D	Tetrahydrofuran	SAM	5/2/2025 7:56:59 AM	MMDadoda	5/5/2025 2:55:50 PM	Peak Integrated by Software
VSTDICC0.5	VL042461.D	Toluene	SAM	5/2/2025 7:56:59 AM	MMDadoda	5/5/2025 2:55:50 PM	Peak Integrated by Software
VSTDICC0.5	VL042461.D	Trichloroethene	SAM	5/2/2025 7:56:59 AM	MMDadoda	5/5/2025 2:55:50 PM	Peak Integrated by Software
VSTDICC0.1	VL042462.D	1,1,1-Trichloroethane	SAM	5/2/2025 7:58:46 AM	MMDadoda	5/5/2025 2:55:52 PM	Peak Integrated by Software
VSTDICC0.1	VL042462.D	1,2-Dibromoethane	SAM	5/2/2025 7:58:46 AM	MMDadoda	5/5/2025 2:55:52 PM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	VL050125	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC0.1	VL042462.D	Naphthalene	SAM	5/2/2025 7:58:46 AM	MMDadoda	5/5/2025 2:55:52 PM	Peak Integrated by Software
VSTDICC0.1	VL042462.D	Tetrachloroethene	SAM	5/2/2025 7:58:46 AM	MMDadoda	5/5/2025 2:55:52 PM	Peak Integrated by Software
VSTDICC0.1	VL042462.D	Trichloroethene	SAM	5/2/2025 7:58:46 AM	MMDadoda	5/5/2025 2:55:52 PM	Peak Integrated by Software
VSTDICC015	VL042465.D	cis-1,3-Dichloropropene	SAM	5/2/2025 7:58:52 AM	MMDadoda	5/5/2025 2:56:22 PM	Peak Integrated by Software
VSTDICC015	VL042465.D	m/p-Xylene	SAM	5/2/2025 7:58:52 AM	MMDadoda	5/5/2025 2:56:22 PM	Peak Integrated by Software
VSTDICC0.03	VL042466.D	1,1,1-Trichloroethane	SAM	5/2/2025 7:58:22 AM	MMDadoda	5/5/2025 2:56:24 PM	Peak Integrated by Software
VSTDICC0.03	VL042466.D	1,1,2,2-Tetrachloroethane	SAM	5/2/2025 7:58:22 AM	MMDadoda	5/5/2025 2:56:24 PM	Peak Integrated by Software
VSTDICC0.03	VL042466.D	Carbon Tetrachloride	SAM	5/2/2025 7:58:22 AM	MMDadoda	5/5/2025 2:56:24 PM	Peak Integrated by Software
VSTDICC0.03	VL042466.D	Tetrachloroethene	SAM	5/2/2025 7:58:22 AM	MMDadoda	5/5/2025 2:56:24 PM	Peak Integrated by Software
VSTDICV010	VL042467.D	1,4-Dioxane	SAM	5/2/2025 7:56:48 AM	MMDadoda	5/5/2025 2:56:26 PM	Peak Integrated by Software
VSTDICV010	VL042467.D	m/p-Xylene	SAM	5/2/2025 7:56:48 AM	MMDadoda	5/5/2025 2:56:26 PM	Peak Integrated by Software
VSTDICV010	VL042467.D	t-1,3-Dichloropropene	SAM	5/2/2025 7:56:48 AM	MMDadoda	5/5/2025 2:56:26 PM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	VL050125	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason

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

Manual Integration Report

Sequence:	VL050525	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC010	VL042469.D	m/p-Xylene	SAM	5/6/2025 10:20:33 AM	MMDadoda	5/6/2025 12:41:48 PM	Peak Integrated by Software
VL0505ABS01	VL042471.D	Heptane	SAM	5/6/2025 10:20:39 AM	MMDadoda	5/6/2025 12:41:46 PM	Peak Integrated by Software
VL0505ABS01	VL042471.D	m/p-Xylene	SAM	5/6/2025 10:20:39 AM	MMDadoda	5/6/2025 12:41:46 PM	Peak Integrated by Software
VL0505ABS01	VL042471.D	Trichloroethene	SAM	5/6/2025 10:20:39 AM	MMDadoda	5/6/2025 12:41:46 PM	Peak Integrated by Software
Q1927-04DL	VL042473.D	Heptane	SAM	5/6/2025 10:20:43 AM	MMDadoda	5/6/2025 12:41:44 PM	Peak Integrated by Software
Q1927-04DL	VL042473.D	m/p-Xylene	SAM	5/6/2025 10:20:43 AM	MMDadoda	5/6/2025 12:41:44 PM	Peak Integrated by Software
Q1927-04DL	VL042473.D	Propene	SAM	5/6/2025 10:20:43 AM	MMDadoda	5/6/2025 12:41:44 PM	Peak Integrated by Software
Q1927-03	VL042474.D	1,1,1-Trichloroethane	SAM	5/6/2025 10:21:15 AM	MMDadoda	5/6/2025 12:41:42 PM	Peak Integrated by Software
Q1927-03	VL042474.D	Benzene	SAM	5/6/2025 10:21:15 AM	MMDadoda	5/6/2025 12:41:42 PM	Peak Integrated by Software
Q1927-03	VL042474.D	Carbon Tetrachloride	SAM	5/6/2025 10:21:15 AM	MMDadoda	5/6/2025 12:41:42 PM	Peak Integrated by Software
Q1927-03	VL042474.D	Chlorodifluoromethane	SAM	5/6/2025 10:21:15 AM	MMDadoda	5/6/2025 12:41:42 PM	Peak Integrated by Software
Q1927-03	VL042474.D	Hexane	SAM	5/6/2025 10:21:15 AM	MMDadoda	5/6/2025 12:41:42 PM	Peak Integrated by Software
Q1927-03	VL042474.D	m/p-Xylene	SAM	5/6/2025 10:21:15 AM	MMDadoda	5/6/2025 12:41:42 PM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	VL050525	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q1927-03	VL042474.D	Toluene	SAM	5/6/2025 10:21:15 AM	MMDadoda	5/6/2025 12:41:42 PM	Peak Integrated by Software
Q1927-04	VL042475.D	Carbon Tetrachloride	SAM	5/6/2025 10:20:48 AM	MMDadoda	5/6/2025 12:42:07 PM	Peak Integrated by Software
Q1927-04	VL042475.D	Chlorodifluoromethane	SAM	5/6/2025 10:20:48 AM	MMDadoda	5/6/2025 12:42:07 PM	Peak Integrated by Software
Q1927-04	VL042475.D	Chloroform	SAM	5/6/2025 10:20:48 AM	MMDadoda	5/6/2025 12:42:07 PM	Peak Integrated by Software
Q1927-04	VL042475.D	Toluene	SAM	5/6/2025 10:20:48 AM	MMDadoda	5/6/2025 12:42:07 PM	Peak Integrated by Software
Q1927-01	VL042476.D	Carbon Tetrachloride	SAM	5/6/2025 10:21:10 AM	MMDadoda	5/6/2025 12:42:09 PM	Peak Integrated by Software
Q1927-01	VL042476.D	Chlorodifluoromethane	SAM	5/6/2025 10:21:10 AM	MMDadoda	5/6/2025 12:42:09 PM	Peak Integrated by Software
Q1927-01	VL042476.D	Ethyl Benzene	SAM	5/6/2025 10:21:10 AM	MMDadoda	5/6/2025 12:42:09 PM	Peak Integrated by Software
Q1927-01	VL042476.D	Hexane	SAM	5/6/2025 10:21:10 AM	MMDadoda	5/6/2025 12:42:09 PM	Peak Integrated by Software
Q1927-01	VL042476.D	m/p-Xylene	SAM	5/6/2025 10:21:10 AM	MMDadoda	5/6/2025 12:42:09 PM	Peak Integrated by Software
Q1927-01	VL042476.D	o-Xylene	SAM	5/6/2025 10:21:10 AM	MMDadoda	5/6/2025 12:42:09 PM	Peak Integrated by Software
Q1927-01	VL042476.D	Propene	SAM	5/6/2025 10:21:10 AM	MMDadoda	5/6/2025 12:42:09 PM	Peak Integrated by Software
Q1927-01	VL042476.D	Styrene	SAM	5/6/2025 10:21:10 AM	MMDadoda	5/6/2025 12:42:09 PM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	VL050525	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q1927-01	VL042476.D	Tetrachloroethene	SAM	5/6/2025 10:21:10 AM	MMDadoda	5/6/2025 12:42:09 PM	Peak Integrated by Software
Q1927-01	VL042476.D	Toluene	SAM	5/6/2025 10:21:10 AM	MMDadoda	5/6/2025 12:42:09 PM	Peak Integrated by Software
Q1927-01DUP	VL042477.D	Chlorodifluoromethane	SAM	5/6/2025 10:22:09 AM	MMDadoda	5/6/2025 12:42:10 PM	Peak Integrated by Software
Q1927-01DUP	VL042477.D	Ethyl Benzene	SAM	5/6/2025 10:22:09 AM	MMDadoda	5/6/2025 12:42:10 PM	Peak Integrated by Software
Q1927-01DUP	VL042477.D	m/p-Xylene	SAM	5/6/2025 10:22:09 AM	MMDadoda	5/6/2025 12:42:10 PM	Peak Integrated by Software
Q1927-01DUP	VL042477.D	o-Xylene	SAM	5/6/2025 10:22:09 AM	MMDadoda	5/6/2025 12:42:10 PM	Peak Integrated by Software
Q1927-01DUP	VL042477.D	Propene	SAM	5/6/2025 10:22:09 AM	MMDadoda	5/6/2025 12:42:10 PM	Peak Integrated by Software
Q1927-01DUP	VL042477.D	Tetrachloroethene	SAM	5/6/2025 10:22:09 AM	MMDadoda	5/6/2025 12:42:10 PM	Peak Integrated by Software
Q1927-01DUP	VL042477.D	Toluene	SAM	5/6/2025 10:22:09 AM	MMDadoda	5/6/2025 12:42:10 PM	Peak Integrated by Software
Q1927-01DUP	VL042477.D	Trichlorofluoromethane	SAM	5/6/2025 10:22:09 AM	MMDadoda	5/6/2025 12:42:10 PM	Peak Integrated by Software
Q1927-02	VL042479.D	Benzene	SAM	5/6/2025 10:21:44 AM	MMDadoda	5/6/2025 12:42:14 PM	Peak Integrated by Software
Q1927-02	VL042479.D	Carbon Tetrachloride	SAM	5/6/2025 10:21:44 AM	MMDadoda	5/6/2025 12:42:14 PM	Peak Integrated by Software
Q1927-02	VL042479.D	Chlorodifluoromethane	SAM	5/6/2025 10:21:44 AM	MMDadoda	5/6/2025 12:42:14 PM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	VL050525	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q1927-02	VL042479.D	Ethyl Benzene	SAM	5/6/2025 10:21:44 AM	MMDadoda	5/6/2025 12:42:14 PM	Peak Integrated by Software
Q1927-02	VL042479.D	Hexane	SAM	5/6/2025 10:21:44 AM	MMDadoda	5/6/2025 12:42:14 PM	Peak Integrated by Software
Q1927-02	VL042479.D	Isopropyl Alcohol	SAM	5/6/2025 10:21:44 AM	MMDadoda	5/6/2025 12:42:14 PM	Peak Integrated by Software
Q1927-02	VL042479.D	m/p-Xylene	SAM	5/6/2025 10:21:44 AM	MMDadoda	5/6/2025 12:42:14 PM	Peak Integrated by Software
Q1927-02	VL042479.D	o-Xylene	SAM	5/6/2025 10:21:44 AM	MMDadoda	5/6/2025 12:42:14 PM	Peak Integrated by Software
Q1927-02	VL042479.D	Propene	SAM	5/6/2025 10:21:44 AM	MMDadoda	5/6/2025 12:42:14 PM	Peak Integrated by Software
Q1927-02	VL042479.D	Toluene	SAM	5/6/2025 10:21:44 AM	MMDadoda	5/6/2025 12:42:14 PM	Peak Integrated by Software
Q1927-05	VL042481.D	Benzene	SAM	5/6/2025 10:21:49 AM	MMDadoda	5/6/2025 12:42:17 PM	Peak Integrated by Software
Q1927-05	VL042481.D	Carbon Tetrachloride	SAM	5/6/2025 10:21:49 AM	MMDadoda	5/6/2025 12:42:17 PM	Peak Integrated by Software
Q1927-05	VL042481.D	Chlorodifluoromethane	SAM	5/6/2025 10:21:49 AM	MMDadoda	5/6/2025 12:42:17 PM	Peak Integrated by Software
Q1927-05	VL042481.D	Hexane	SAM	5/6/2025 10:21:49 AM	MMDadoda	5/6/2025 12:42:17 PM	Peak Integrated by Software
Q1927-05	VL042481.D	m/p-Xylene	SAM	5/6/2025 10:21:49 AM	MMDadoda	5/6/2025 12:42:17 PM	Peak Integrated by Software
Q1927-05	VL042481.D	Propene	SAM	5/6/2025 10:21:49 AM	MMDadoda	5/6/2025 12:42:17 PM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	VL050525	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q1927-05	VL042481.D	Tetrahydrofuran	SAM	5/6/2025 10:21:49 AM	MMDadoda	5/6/2025 12:42:17 PM	Peak Integrated by Software
Q1927-05	VL042481.D	Toluene	SAM	5/6/2025 10:21:49 AM	MMDadoda	5/6/2025 12:42:17 PM	Peak Integrated by Software
Q1927-06	VL042483.D	Benzene	SAM	5/6/2025 10:21:20 AM	MMDadoda	5/6/2025 12:42:21 PM	Peak Integrated by Software
Q1927-06	VL042483.D	Carbon Tetrachloride	SAM	5/6/2025 10:21:20 AM	MMDadoda	5/6/2025 12:42:21 PM	Peak Integrated by Software
Q1927-06	VL042483.D	Chlorodifluoromethane	SAM	5/6/2025 10:21:20 AM	MMDadoda	5/6/2025 12:42:21 PM	Peak Integrated by Software
Q1927-06	VL042483.D	Propene	SAM	5/6/2025 10:21:20 AM	MMDadoda	5/6/2025 12:42:21 PM	Peak Integrated by Software
Q1927-06	VL042483.D	Toluene	SAM	5/6/2025 10:21:20 AM	MMDadoda	5/6/2025 12:42:21 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 # VL050125

Review By	Semsettin Yesilyurt	Review On	5/2/2025 7:59:23 AM				
Supervise By	Mahesh Dadoda	Supervise On	5/5/2025 2:55:39 PM				
SubDirectory	VL050125	HP Acquire Method	TO15AIR.M	HP Processing Method	VL050125AIR.M		

STD. NAME	STD REF.#
Tune/Reschk	AP2603
Initial Calibration Stds	AP2606,AP2607,AP2608
CCC	AP2606
Internal Standard/PEM	AP2603
ICV/I.BLK	AP2609
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr #	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VL042457.D	01 May 2025 08:19	SY/MD	Ok
2	VSTDICCC010	VL042458.D	01 May 2025 09:03	SY/MD	Ok,M
3	VSTDICC002	VL042459.D	01 May 2025 09:37	SY/MD	Ok,M
4	VSTDICC001	VL042460.D	01 May 2025 10:08	SY/MD	Ok,M
5	VSTDICC0.5	VL042461.D	01 May 2025 10:40	SY/MD	Ok,M
6	VSTDICC0.1	VL042462.D	01 May 2025 11:12	SY/MD	Ok,M
7	VSTDICC0.03	VL042463.D	01 May 2025 11:44	SY/MD	Not Ok
8	VSTDICC0.03	VL042464.D	01 May 2025 12:15	SY/MD	Not Ok
9	VSTDICC015	VL042465.D	01 May 2025 12:49	SY/MD	Ok,M
10	VSTDICC0.03	VL042466.D	01 May 2025 14:10	SY/MD	Ok,M
11	VSTDICV010	VL042467.D	01 May 2025 15:46	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 # VL050525

Review By	Semsettin Yesilyurt	Review On	5/6/2025 10:22:30 AM				
Supervise By	Mahesh Dadoda	Supervise On	5/6/2025 12:42:58 PM				
SubDirectory	VL050525	HP Acquire Method	TO15AIR.M		HP Processing Method	VL050125AIR.M	

STD. NAME	STD REF.#
Tune/Reschk	AP2603
Initial Calibration Stds	AP2606,AP2607,AP2608
CCC	AP2606
Internal Standard/PEM	AP2603
ICV/I.BLK	AP2609
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr #	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VL042468.D	05 May 2025 07:45	SY/MD	Ok
2	VSTDCCC010	VL042469.D	05 May 2025 08:29	SY/MD	Ok,M
3	VL0505ABL01	VL042470.D	05 May 2025 09:19	SY/MD	Ok
4	VL0505ABS01	VL042471.D	05 May 2025 10:07	SY/MD	Ok,M
5	Q1927-03DL	VL042472.D	05 May 2025 10:50	SY/MD	Not Ok
6	Q1927-04DL	VL042473.D	05 May 2025 11:22	SY/MD	Ok,M
7	Q1927-03	VL042474.D	05 May 2025 13:11	SY/MD	Ok,M
8	Q1927-04	VL042475.D	05 May 2025 14:44	SY/MD	Dilution
9	Q1927-01	VL042476.D	05 May 2025 15:18	SY/MD	Ok,M
10	Q1927-01DUP	VL042477.D	05 May 2025 15:53	SY/MD	Ok,M
11	Q1927-01DL	VL042478.D	05 May 2025 16:25	SY/MD	Not Ok
12	Q1927-02	VL042479.D	05 May 2025 16:59	SY/MD	Ok,M
13	Q1927-02DL	VL042480.D	05 May 2025 17:31	SY/MD	Not Ok
14	Q1927-05	VL042481.D	05 May 2025 18:06	SY/MD	Ok,M
15	Q1927-05DL	VL042482.D	05 May 2025 18:39	SY/MD	Not Ok
16	Q1927-06	VL042483.D	05 May 2025 19:15	SY/MD	Ok,M
17	Q1927-06DL	VL042484.D	05 May 2025 19:49	SY/MD	Not Ok
18	QC042825 CAN 10492	VL042485.D	05 May 2025 20:26	SY/MD	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 # VL050125

Review By	Semsettin Yesilyurt	Review On	5/2/2025 7:59:23 AM		
Supervise By	Mahesh Dadoda	Supervise On	5/5/2025 2:55:39 PM		
SubDirectory	VL050125	HP Acquire Method	TO15AIR.M	HP Processing Method	VL050125AIR.M

STD. NAME	STD REF.#
Tune/Reschk	AP2603
Initial Calibration Stds	AP2606,AP2607,AP2608
CCC	AP2606
Internal Standard/PEM	AP2603
ICV/I.BLK	AP2609
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr #	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VL042457.D	01 May 2025 08:19		SY/MD	Ok
2	VSTDICCC010	VSTDICCC010	VL042458.D	01 May 2025 09:03		SY/MD	Ok,M
3	VSTDICC002	VSTDICC002	VL042459.D	01 May 2025 09:37		SY/MD	Ok,M
4	VSTDICC001	VSTDICC001	VL042460.D	01 May 2025 10:08		SY/MD	Ok,M
5	VSTDICC0.5	VSTDICC0.5	VL042461.D	01 May 2025 10:40		SY/MD	Ok,M
6	VSTDICC0.1	VSTDICC0.1	VL042462.D	01 May 2025 11:12		SY/MD	Ok,M
7	VSTDICC0.03	VSTDICC0.03	VL042463.D	01 May 2025 11:44	Not used,wrong purge	SY/MD	Not Ok
8	VSTDICC0.03	VSTDICC0.03	VL042464.D	01 May 2025 12:15	Not used	SY/MD	Not Ok
9	VSTDICC015	VSTDICC015	VL042465.D	01 May 2025 12:49		SY/MD	Ok,M
10	VSTDICC0.03	VSTDICC0.03	VL042466.D	01 May 2025 14:10		SY/MD	Ok,M
11	VSTDICV010	ICVVL050125	VL042467.D	01 May 2025 15:46		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 # VL050525

Review By	Semsettin Yesilyurt	Review On	5/6/2025 10:22:30 AM		
Supervise By	Mahesh Dadoda	Supervise On	5/6/2025 12:42:58 PM		
SubDirectory	VL050525	HP Acquire Method	TO15AIR.M	HP Processing Method	VL050125AIR.M

STD. NAME	STD REF.#
Tune/Reschk	AP2603
Initial Calibration Stds	AP2606,AP2607,AP2608
CCC	AP2606
Internal Standard/PEM	AP2603
ICV/I.BLK	AP2609
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr #	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VL042468.D	05 May 2025 07:45		SY/MD	Ok
2	VSTDCCC010	VSTDCCC010	VL042469.D	05 May 2025 08:29		SY/MD	Ok,M
3	VL0505ABL01	VL0505ABL01	VL042470.D	05 May 2025 09:19		SY/MD	Ok
4	VL0505ABS01	VL0505ABS01	VL042471.D	05 May 2025 10:07		SY/MD	Ok,M
5	Q1927-03DL	EBR-P04-SC-SS01-202	VL042472.D	05 May 2025 10:50	Not required	SY/MD	Not Ok
6	Q1927-04DL	EBR-P03-SC-SS01-202	VL042473.D	05 May 2025 11:22		SY/MD	Ok,M
7	Q1927-03	EBR-P04-SC-SS01-202	VL042474.D	05 May 2025 13:11		SY/MD	Ok,M
8	Q1927-04	EBR-P03-SC-SS01-202	VL042475.D	05 May 2025 14:44	Need 10X	SY/MD	Dilution
9	Q1927-01	EBR-P06-SC-IA01-202	VL042476.D	05 May 2025 15:18		SY/MD	Ok,M
10	Q1927-01DUP	EBR-P06-SC-IA01-202	VL042477.D	05 May 2025 15:53		SY/MD	Ok,M
11	Q1927-01DL	EBR-P06-SC-IA01-202	VL042478.D	05 May 2025 16:25	Not required	SY/MD	Not Ok
12	Q1927-02	EBR-P03-SC-IA01-202	VL042479.D	05 May 2025 16:59		SY/MD	Ok,M
13	Q1927-02DL	EBR-P03-SC-IA01-202	VL042480.D	05 May 2025 17:31	Not required	SY/MD	Not Ok
14	Q1927-05	EBR-P07-SC-IA01-202	VL042481.D	05 May 2025 18:06		SY/MD	Ok,M
15	Q1927-05DL	EBR-P07-SC-IA01-202	VL042482.D	05 May 2025 18:39	Not required	SY/MD	Not Ok
16	Q1927-06	EBR-P04-SC-IA01-202	VL042483.D	05 May 2025 19:15		SY/MD	Ok,M
17	Q1927-06DL	EBR-P04-SC-IA01-202	VL042484.D	05 May 2025 19:49	Not required	SY/MD	Not Ok
18	QC042825 CAN 10492	QC042825 CAN 10492	VL042485.D	05 May 2025 20:26		SY/MD	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 # VL050525

Review By	Semsettin Yesilyurt	Review On	5/6/2025 10:22:30 AM		
Supervise By	Mahesh Dadoda	Supervise On	5/6/2025 12:42:58 PM		
SubDirectory	VL050525	HP Acquire Method	TO15AIR.M	HP Processing Method	VL050125AIR.M

STD. NAME	STD REF.#
Tune/Reschk	AP2603
Initial Calibration Stds	AP2606,AP2607,AP2608
CCC	AP2606
Internal Standard/PEM	AP2603
ICV/I.BLK	AP2609
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

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 : Q1927

Test : TO-15

Prepbatch ID :

Sequence ID/Qc Batch ID: VL050525,

Standard ID :
AP2603,AP2606,AP2607,AP2608,AP2609,

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	AP2603	04/28/2025	05/22/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 05/08/2025

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	AP2606	05/01/2025	06/01/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 05/08/2025

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	AP2607	05/01/2025	06/01/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 05/08/2025

FROM 26.00000psi of A1117 + 4.00000psi of AP2606 = 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	AP2608	05/01/2025	06/01/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 05/08/2025

FROM 29.00000psi of A1117 + 1.00000psi of AP2606 = 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	AP2609	05/01/2025	06/01/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 05/08/2025

FROM 1455.00000SCCM of A1117 + 45.00000SCCM of A1137 = 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 : q1927

Date	Bottle ID	Lab Sample Number	InComing Vacuum	Canister ID	Can Size	Reg ID	Reg Size	Batch Code	Certification ID
05/01/2025	B2504018	Q1927-06	-2.2	10607	6 L	10482		C2504005	**VL042310.D** Seq :vl041025 TUNE : VL042299.D ICAL : VL042177.D CCAL : VL042300.D MB : VL042301.D
05/01/2025	B2504018	Q1927-05	-7.5	10445	6 L	10515		C2504005	**VL042308.D** Seq :vl041025 TUNE : VL042299.D ICAL : VL042177.D CCAL : VL042300.D MB : VL042301.D
05/01/2025	B2504018	Q1927-04	-5.9	10320	6 L	10478		C2504005	**VL042308.D** Seq :vl041025 TUNE : VL042299.D ICAL : VL042177.D CCAL : VL042300.D MB : VL042301.D
05/01/2025	B2504018	Q1927-03	-6.7	10283	6 L	10240		C2504005	**VL042308.D** Seq :vl041025 TUNE : VL042299.D ICAL : VL042177.D CCAL : VL042300.D MB : VL042301.D
05/01/2025	B2504018	Q1927-02	-5.5	10267	6 L	10520		C2504005	**VL042308.D** Seq :vl041025 TUNE : VL042299.D ICAL : VL042177.D CCAL : VL042300.D MB : VL042301.D
05/01/2025	B2504018	Q1927-01	-7.8	10197	6 L	10478		C2504005	**VL042309.D** Seq :vl041025 TUNE : VL042299.D ICAL : VL042177.D CCAL : VL042300.D MB : VL042301.D

Canister Cleaning

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

Canister Batch : C2504005

Type of Canister : 6 L

Cleaning Date : 04/08/2025

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
10283	-30	04/09/2025	04/10/2025	-30	04/10/2025	Q1927-03	10445	VL042308.D
10445	-30	04/09/2025	04/10/2025	-30	04/10/2025	Q1927-05	10445	VL042308.D
10267	-30	04/09/2025	04/10/2025	-30	04/10/2025	Q1927-02	10445	VL042308.D
10282	-30	04/09/2025	04/10/2025	-30	04/10/2025	Q1880-08	10445	VL042308.D
10607	-30	04/09/2025	04/10/2025	-30	04/10/2025	Q1927-06	10607	VL042310.D
10320	-30	04/09/2025	04/10/2025	-30	04/10/2025	Q1927-04	10445	VL042308.D
10024	-30	04/09/2025	04/10/2025	-30	04/10/2025	Q1880-06	10445	VL042308.D
10197	-30	04/09/2025	04/10/2025	-30	04/10/2025	Q1927-01	10197	VL042309.D

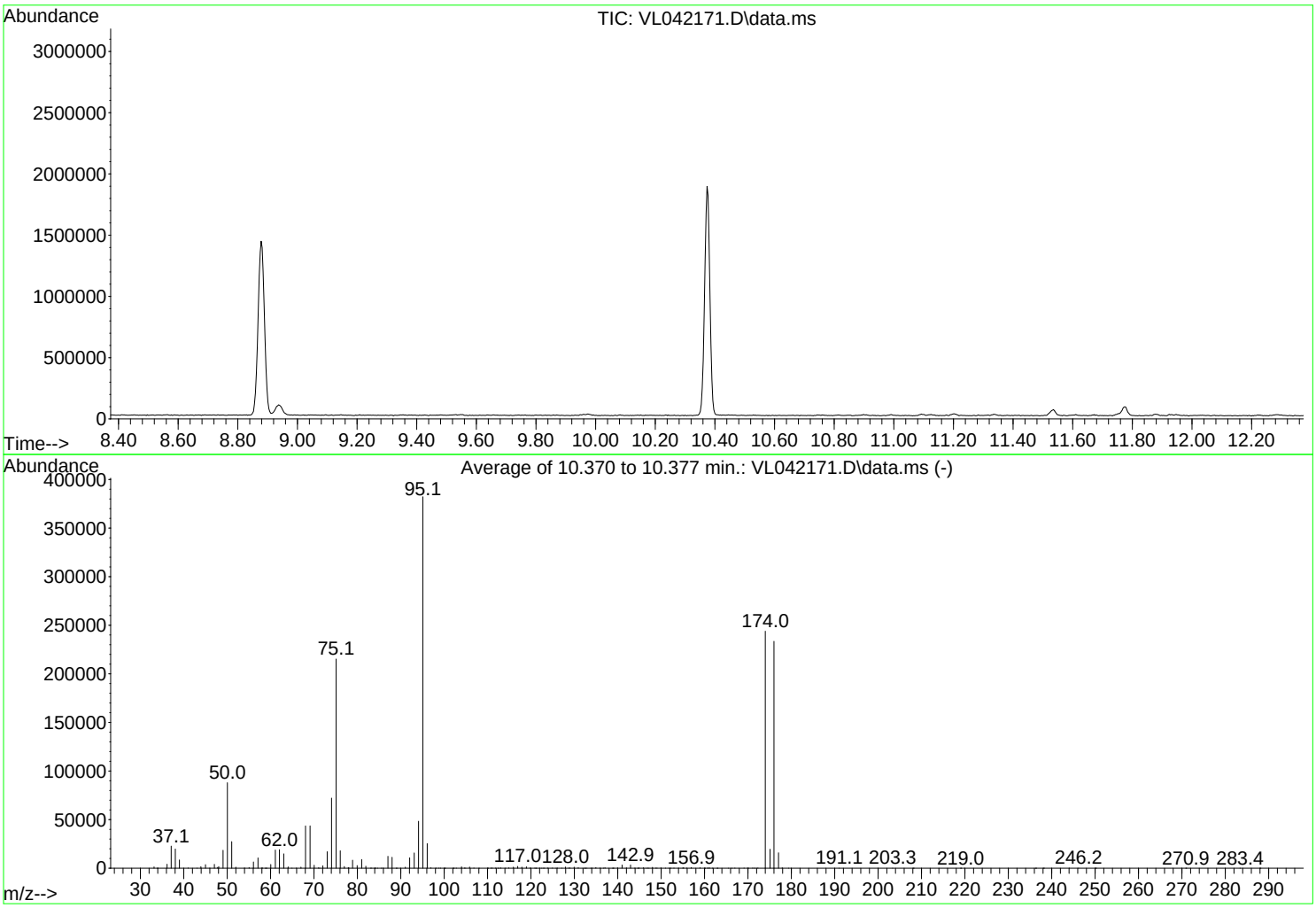
BFB

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

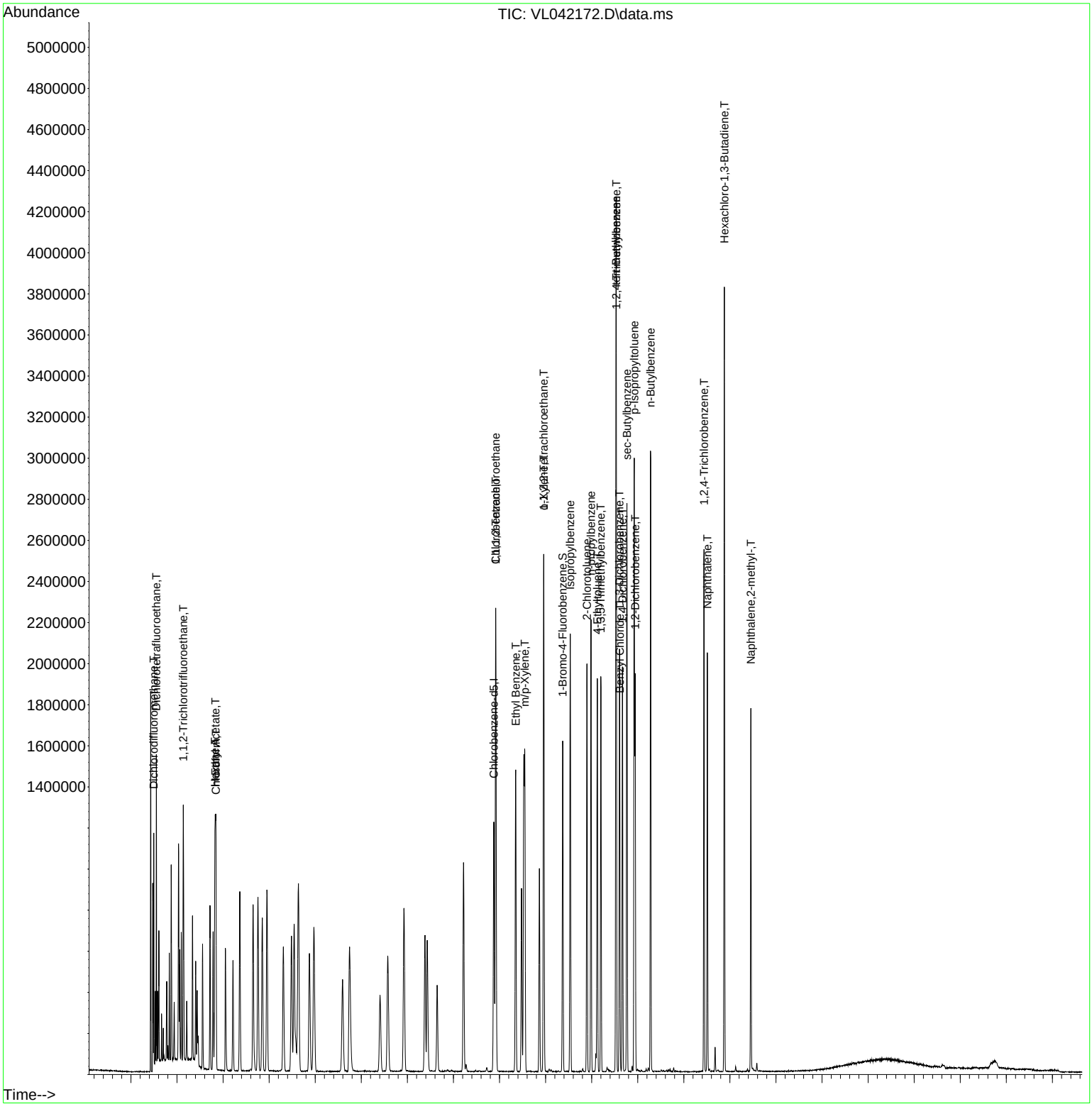
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
Data File : VL042172.D
Acq On : 27 Mar 2025 08:26
Operator : SY/MD
Sample : VSTDICCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

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

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

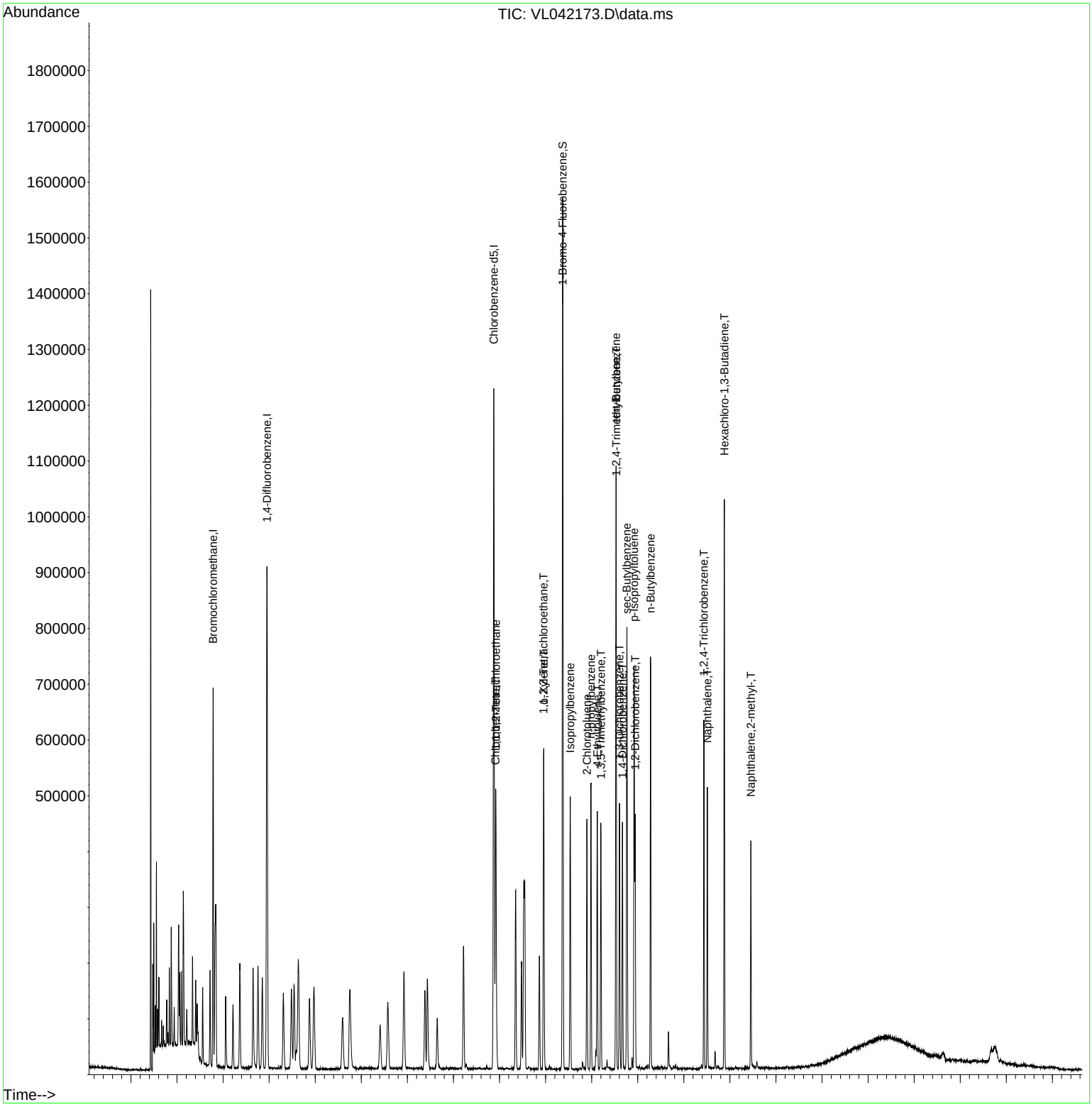
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
Data File : VL042173.D
Acq On : 27 Mar 2025 08:59
Operator : SY/MD
Sample : VSTDICC002
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

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

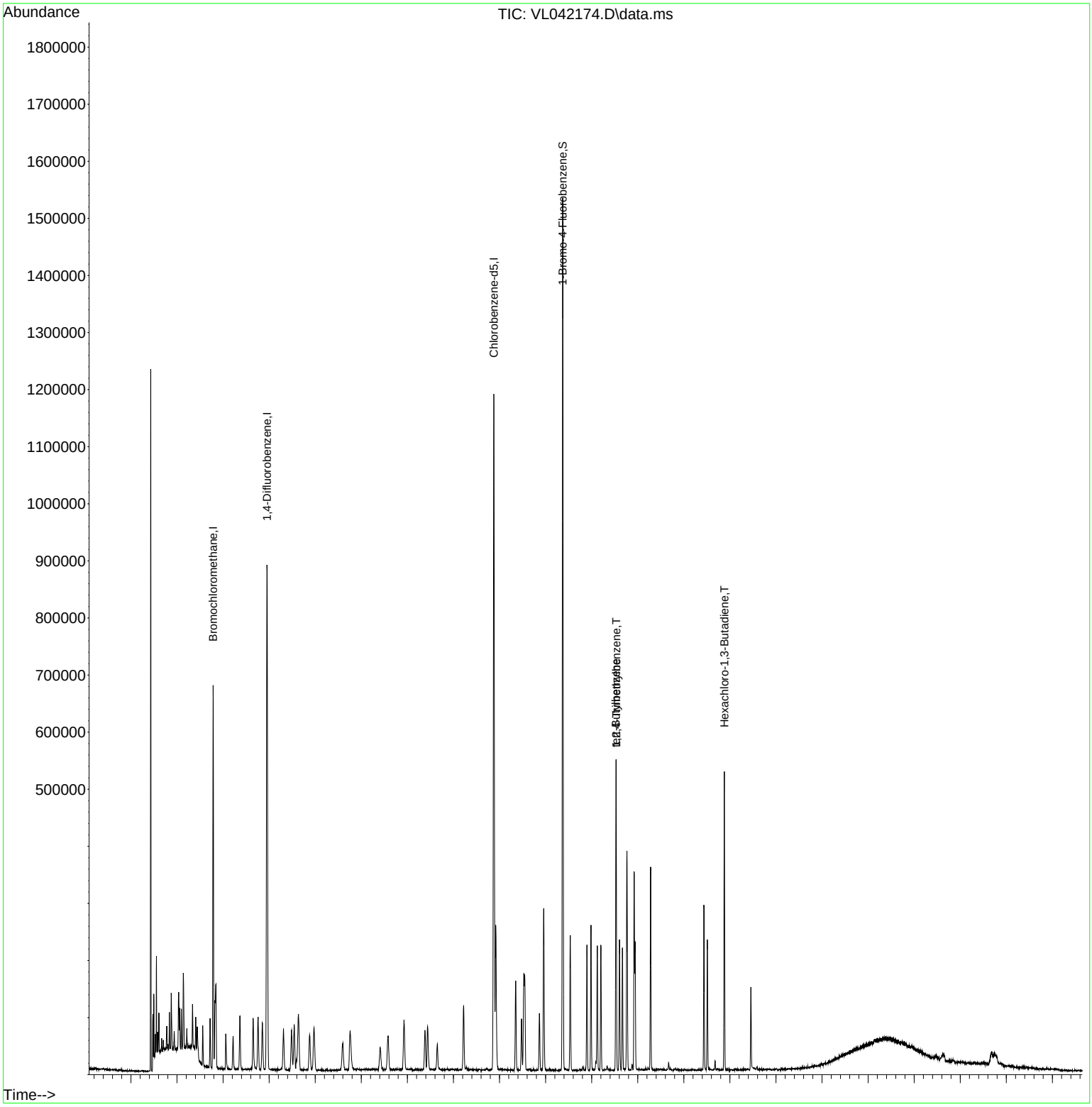
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
Data File : VL042174.D
Acq On : 27 Mar 2025 09:30
Operator : SY/MD
Sample : VSTDICC001
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

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

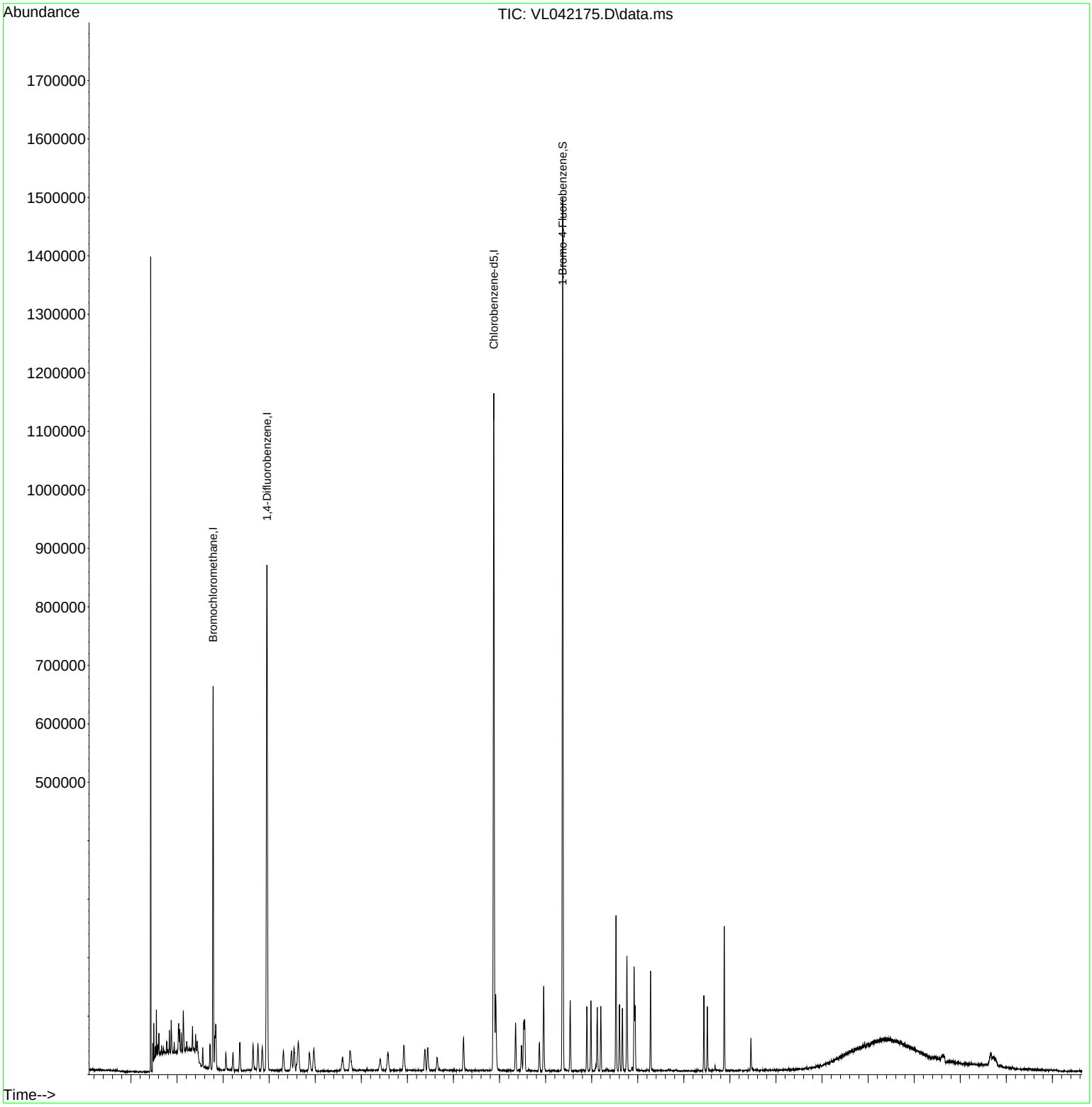
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
Data File : VL042175.D
Acq On : 27 Mar 2025 10:01
Operator : SY/MD
Sample : VSTDICC0.5
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

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

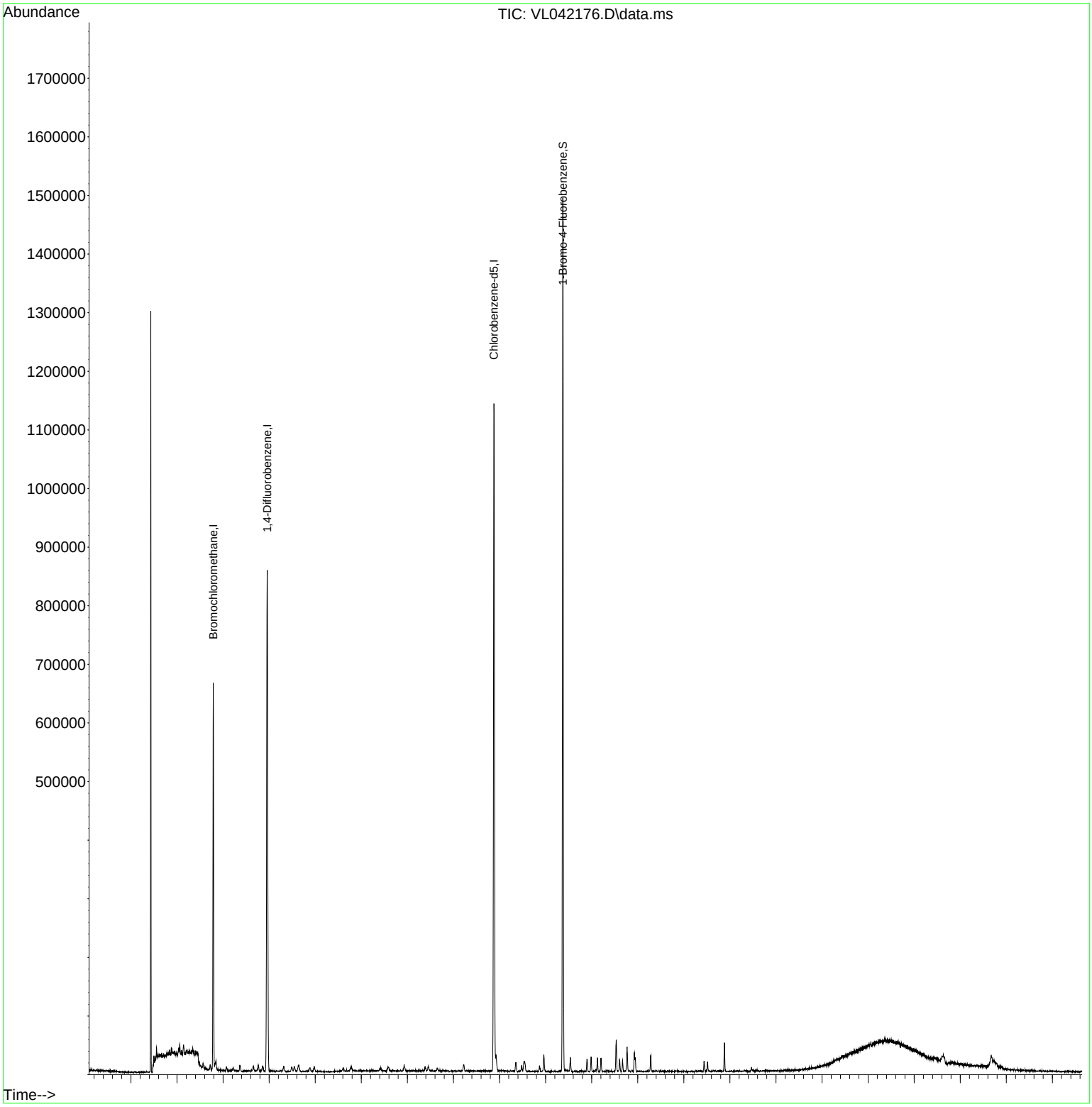
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
Data File : VL042176.D
Acq On : 27 Mar 2025 10:32
Operator : SY/MD
Sample : VSTDICC0.1
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

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

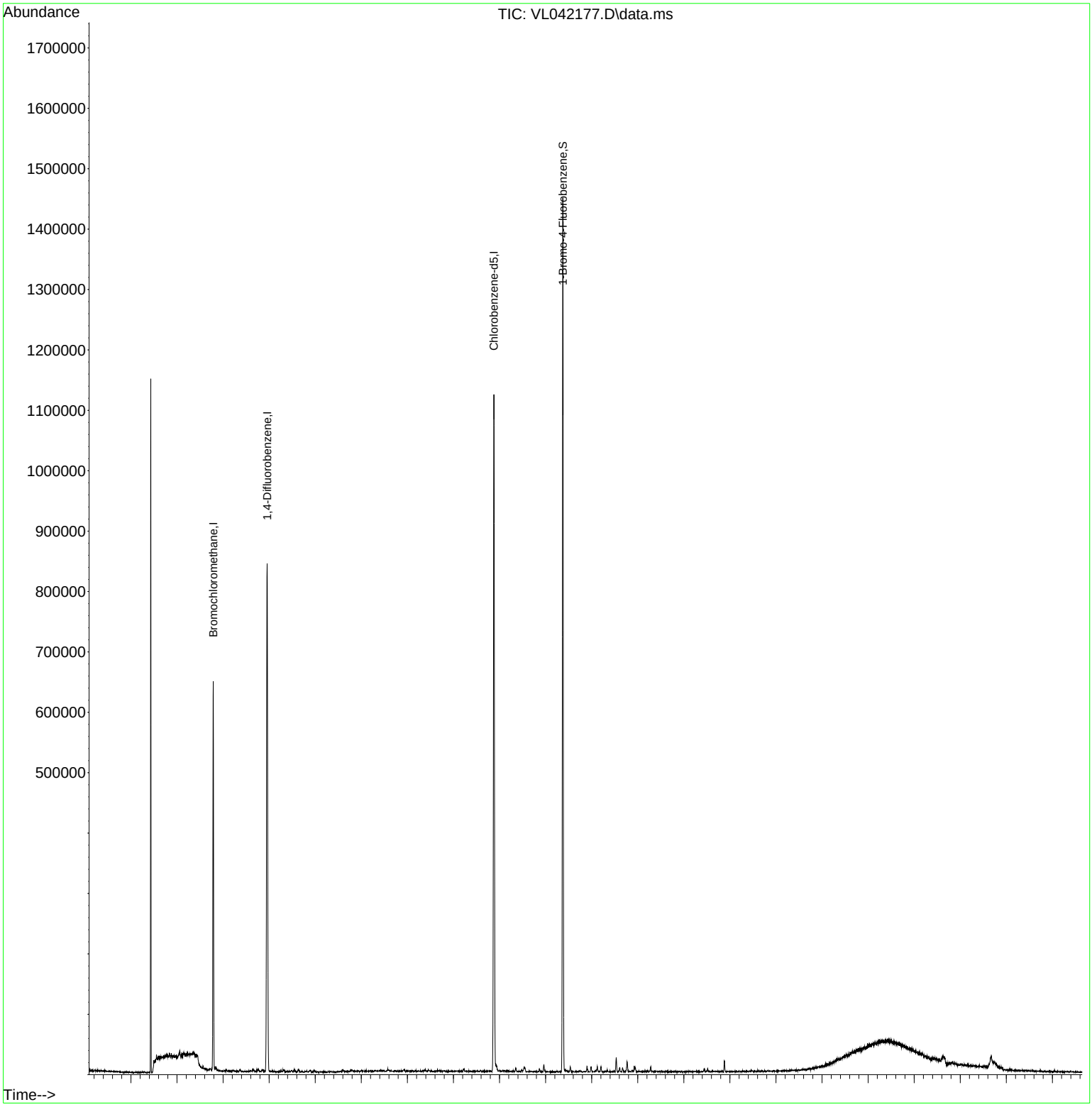
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
Data File : VL042177.D
Acq On : 27 Mar 2025 11:03
Operator : SY/MD
Sample : VSTDICC0.03
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

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

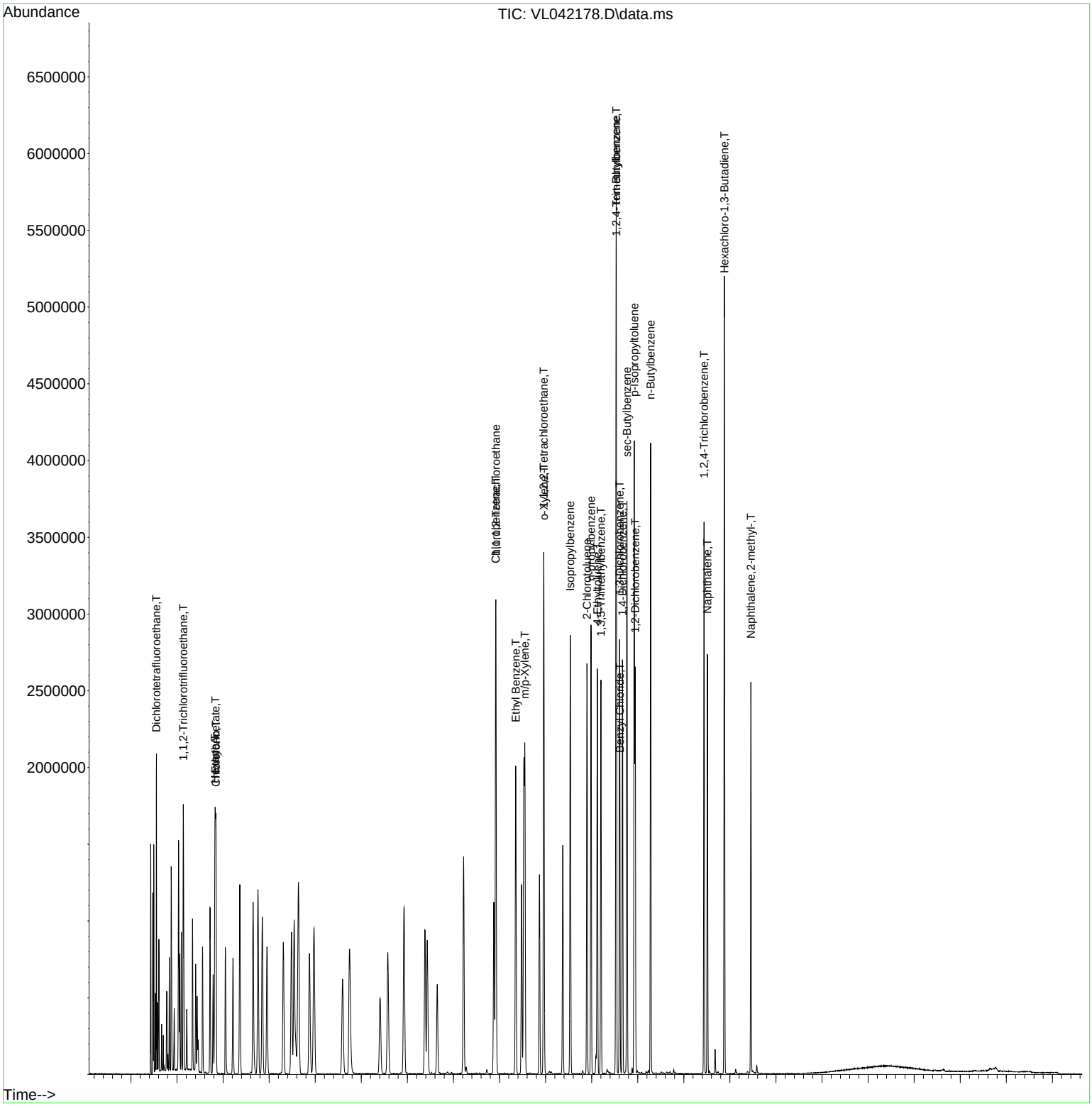
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
Data File : VL042178.D
Acq On : 27 Mar 2025 11:36
Operator : SY/MD
Sample : VSTDICC015
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

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

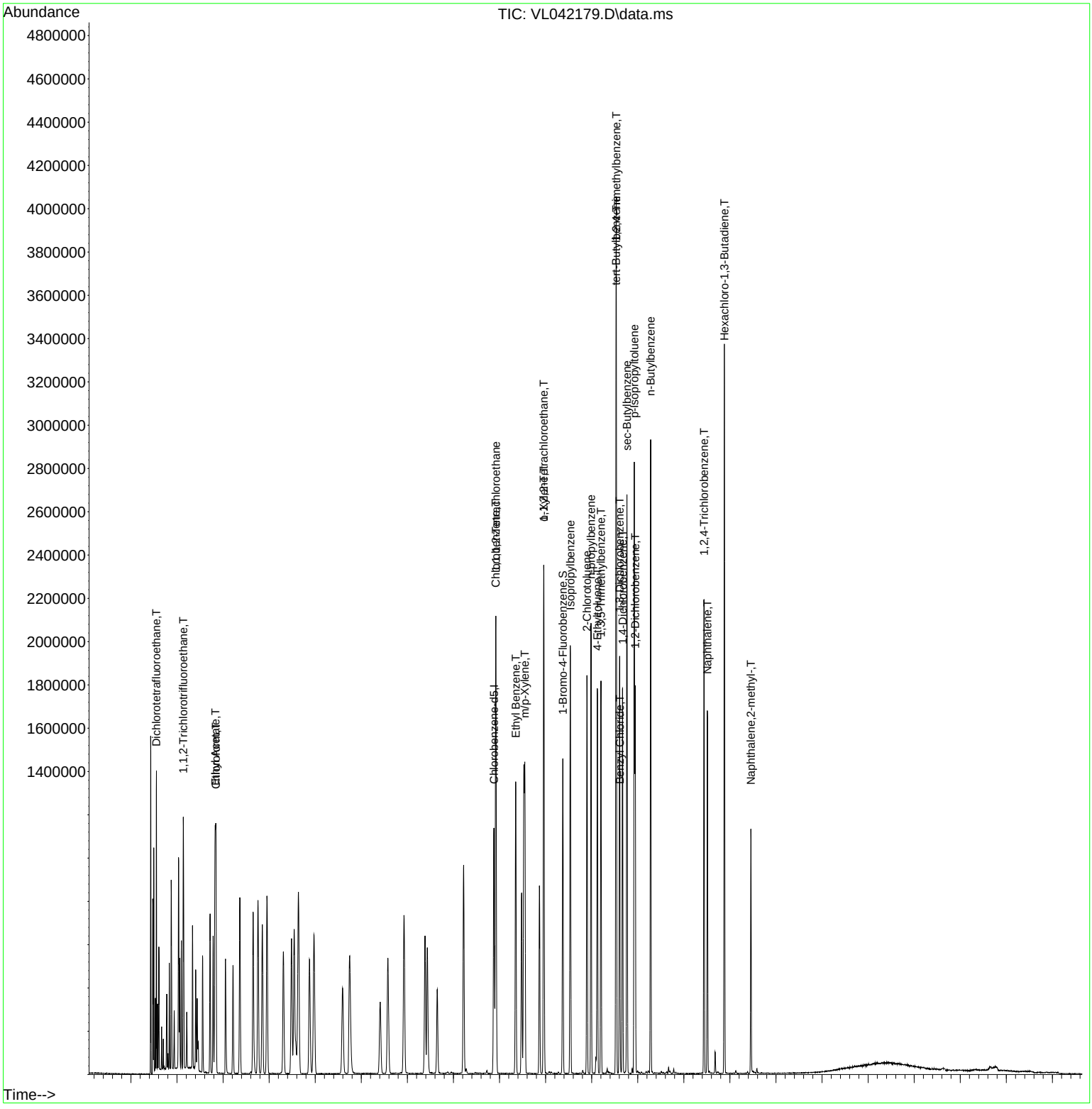
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
Data File : VL042179.D
Acq On : 27 Mar 2025 12:23
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

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

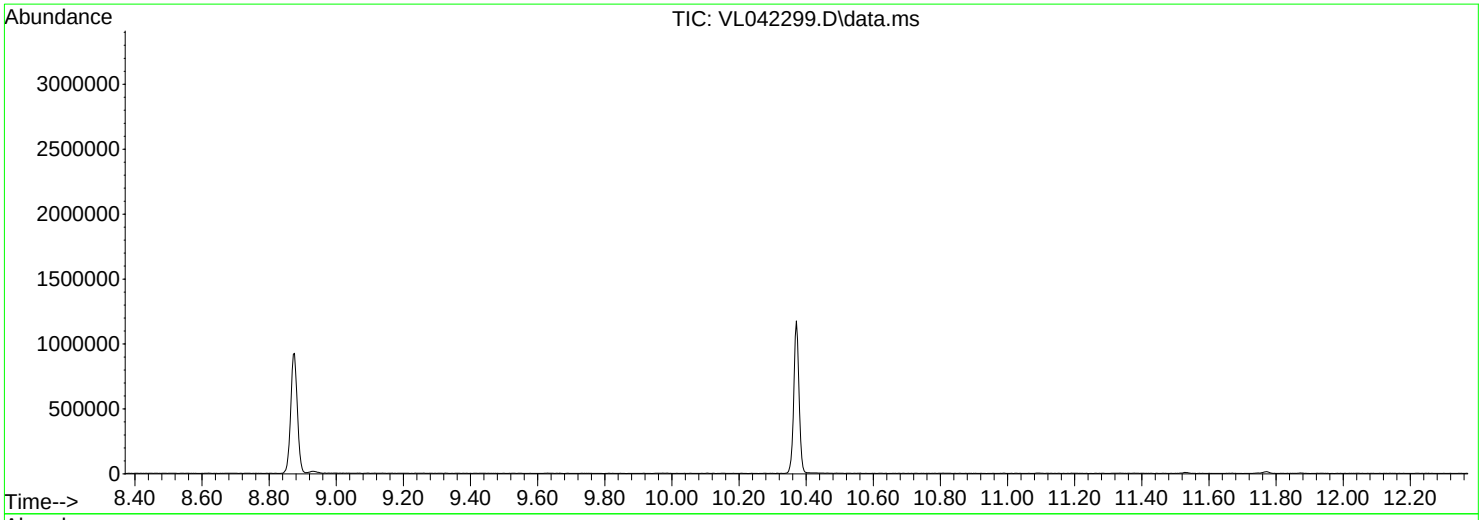
BFB

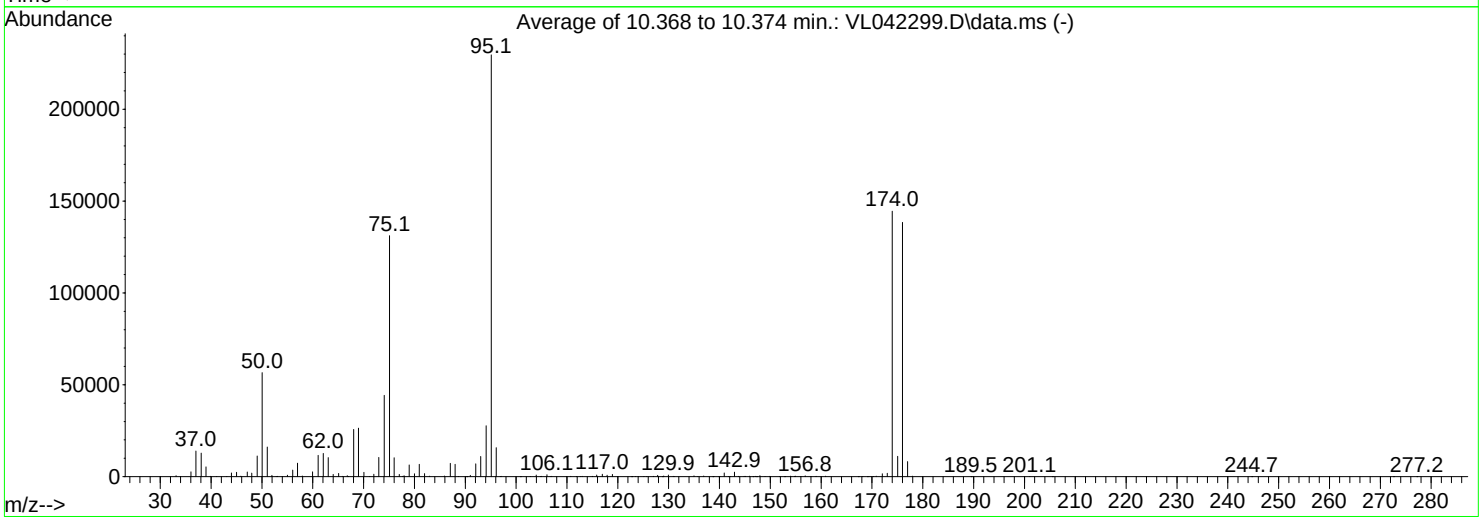
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041025\
Data File : VL042299.D
Acq On : 10 Apr 2025 08:46
Operator : SY/MD
Sample : BFB
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\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 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	24.7	56629	PASS
75	95	30	66	57.1	131205	PASS
95	95	100	100	100.0	229611	PASS
96	95	5	9	6.9	15747	PASS
173	174	0.00	2	1.3	1863	PASS
174	95	50	120	62.9	144533	PASS
175	174	4	9	7.7	11082	PASS
176	174	93	101	95.7	138363	PASS
177	176	5	9	5.9	8219	PASS

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041025\
Data File : VL042300.D
Acq On : 10 Apr 2025 09:27
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 11 01:54:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 04/11/2025
Supervised By :Mahesh Dadoda 04/11/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.781	49	178247	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	448439	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	388079	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.370	95	315861	9.911	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 99.100%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.496	85	256858	9.760	ppbv	99
3) Chlorodifluoromethane	1.473	51	283366	10.540	ppbv	98
4) Chloromethane	1.531	50	106741	9.924	ppbv	98
5) Vinyl Chloride	1.576	62	95961	8.419	ppbv	96
6) Bromomethane	1.664	94	46181	9.475	ppbv	98
7) Chloroethane	1.699	64	40193	9.310	ppbv	95
8) Dichlorotetrafluoroethane	1.551	85	218294	9.740	ppbv	94
9) Propene	1.483	41	109223	8.863	ppbv	100
10) Heptane	4.972	43	324095	9.887	ppbv	98
11) Trichlorofluoromethane	1.874	101	247687	9.672	ppbv	99
12) 1,1,2-Trichlorotrifluo...	2.136	101	202744	9.632	ppbv	98
13) Ethanol	1.716	45	4951	4.250	ppbv	90
14) Bromoethene	1.777	108	71256	8.837	ppbv	97
15) Acetone	1.832	43	223555	8.968	ppbv	97
16) 1,3-Butadiene	1.606	39	109334	8.981	ppbv	96
17) tert-Butyl alcohol	2.036	59	251167	8.089	ppbv	99
18) 1,1-Dichloroethene	2.030	96	84843	8.622	ppbv	95
19) Isopropyl Alcohol	1.884	45	121282	8.623	ppbv	93
20) Methylene Chloride	2.056	84	78454	8.450	ppbv	96
21) Allyl Chloride	2.091	41	160287	9.117	ppbv	97
22) trans-1,2-Dichloroethene	2.337	96	100830	8.866	ppbv	97
23) Vinyl Acetate	2.457	43	87054	8.068	ppbv	98
24) 1,1-Dichloroethane	2.405	63	207493	9.842	ppbv	99
25) Ethyl Acetate	2.829	43	648989	10.031	ppbv	99
26) Hexane	2.819	57	242802	9.715	ppbv	95
27) Carbon Disulfide	2.146	76	246850	9.211	ppbv	97
28) Methyl tert-Butyl Ether	2.434	73	123776	7.955	ppbv	95
29) Chloroform	2.842	83	384275	10.507	ppbv	98
30) Cyclohexane	3.849	84	195121	8.992	ppbv	97
31) cis-1,2-Dichloroethene	2.716	61	230708	9.093	ppbv	98
32) 1,1,1-Trichloroethane	3.360	97	374626	8.947	ppbv	97
34) 2-Butanone	2.554	43	358677	11.030	ppbv	98
35) Carbon Tetrachloride	3.755	117	392632	11.208	ppbv	98
36) Benzene	3.648	78	478185	10.756	ppbv	98
37) 1,2-Dichloroethane	3.211	62	286987	11.276	ppbv	100
38) Trichloroethene	4.538	130	195692	10.550	ppbv	97
39) 1,2-Dichloropropane	4.305	63	177013	10.933	ppbv	93
40) 1,4-Dioxane	4.574	88	82234	9.570	ppbv #	96
41) Tetrahydrofuran	3.049	42	203688	10.878	ppbv	93
42) Bromodichloromethane	4.480	83	403381	11.496	ppbv	98
43) Methyl Methacrylate	4.871	69	174371	9.265	ppbv	97
44) 2,2,4-Trimethylpentane	4.629	57	854163	11.369	ppbv	97
45) t-1,3-Dichloropropene	6.406	75	165013	8.172	ppbv	94

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041025\
Data File : VL042300.D
Acq On : 10 Apr 2025 09:27
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 11 01:54:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 04/11/2025
Supervised By :Mahesh Dadoda 04/11/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) cis-1,3-Dichloropropene	5.593	75	221829	8.962	ppbv		96
47) 1,1,2-Trichloroethane	6.571	97	195254	11.408	ppbv		98
48) Dibromochloromethane	7.377	129	318189	10.970	ppbv		100
49) Bromoform	9.477	173	285511	10.964	ppbv		99
50) 4-Methyl-2-Pentanone	5.742	43	507692	9.852	ppbv		94
51) 2-Hexanone	7.428	43	399883	9.449	ppbv	#	94
52) Tetrachloroethene	8.215	164	162967	9.243	ppbv		97
53) Toluene	6.923	91	519861	9.865	ppbv		99
54) 1,2-Dibromoethane	7.642	107	258669	10.842	ppbv		99
56) 1,1,1,2-Tetrachloroethane	8.917	131	267799	12.536	ppbv		99
57) Chlorobenzene	8.914	112	449522	12.212	ppbv		94
58) Ethyl Benzene	9.348	91	745642	10.817	ppbv		100
59) m/p-Xylene	9.545	91	1300739m	23.631	ppbv		
60) o-Xylene	9.956	91	645311	11.695	ppbv		96
61) Styrene	9.866	104	277596	10.169	ppbv		99
62) Isopropylbenzene	10.532	105	963868	11.681	ppbv		99
63) 1,1,2,2-Tetrachloroethane	9.956	83	431966	12.884	ppbv		100
64) n-propylbenzene	10.985	120	255844	12.045	ppbv		99
65) tert-Butylbenzene	11.526	119	885906	11.609	ppbv		99
66) Benzyl Chloride	11.610	91	66712	8.239	ppbv		99
67) sec-Butylbenzene	11.762	105	1259760	11.876	ppbv		100
69) p-Isopropyltoluene	11.921	119	1081410	11.839	ppbv		99
70) n-Butylbenzene	12.277	91	1114385	11.930	ppbv		100
71) 2-Chlorotoluene	10.895	91	735700	11.488	ppbv		98
72) 4-Ethyltoluene	11.121	105	807663	11.756	ppbv		99
73) 1,3,5-Trimethylbenzene	11.199	105	697155	11.618	ppbv		100
74) 1,2,4-Trimethylbenzene	11.532	105	794178	11.489	ppbv		92
75) 1,3-Dichlorobenzene	11.604	146	483914	12.764	ppbv		98
76) 1,4-Dichlorobenzene	11.668	146	477802	12.663	ppbv		99
77) 1,2-Dichlorobenzene	11.943	146	479327	12.985	ppbv		98
78) Hexachloro-1,3-Butadiene	13.879	225	378178	10.064	ppbv		100
79) Naphthalene	13.510	128	909659	12.031	ppbv		100
80) Naphthalene,2-methyl-	14.455	142	421431	11.365	ppbv		99
81) 1,2,4-Trichlorobenzene	13.439	180	402576	11.543	ppbv		99

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

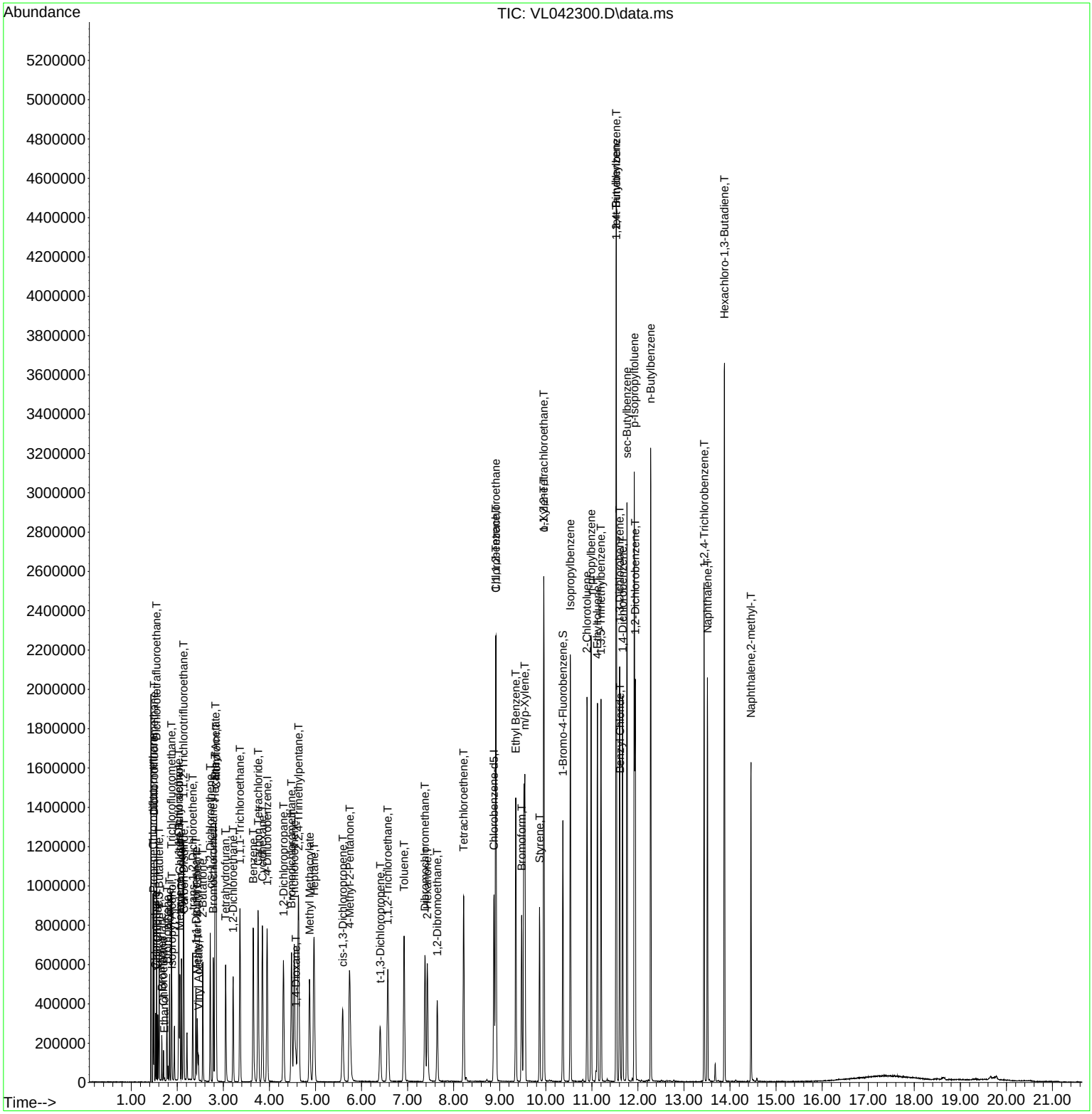
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041025\
Data File : VL042300.D
Acq On : 10 Apr 2025 09:27
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 11 01:54:45 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 :
VSTDCCC010

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 04/11/2025
Supervised By :Mahesh Dadoda 04/11/2025



Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041025\
Data File : VL042300.D
Acq On : 10 Apr 2025 09:27
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
LabSampleId :
VSTDCCC010

Quant Time: Apr 11 01:54:45 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	95	0.00
2	T	Dichlorodifluoromethane	1.476	1.441	2.4	98	0.00
3		Chlorodifluoromethane	1.508	1.590	-5.4	104	0.00
4		Chloromethane	0.603	0.599	0.7	100	0.00
5	T	Vinyl Chloride	0.639	0.538	15.8	93	0.00
6	T	Bromomethane	0.273	0.259	5.1	96	0.00
7		Chloroethane	0.242	0.225	7.0	95	0.00
8	T	Dichlorotetrafluoroethane	1.257	1.225	2.5	96	0.00
9	T	Propene	0.691	0.613	11.3	89	0.00
10	T	Heptane	1.839	1.818	1.1	97	0.00
11	T	Trichlorofluoromethane	1.437	1.390	3.3	99	0.00
12	T	1,1,2-Trichlorotrifluoroeth	1.181	1.137	3.7	97	0.00
13		Ethanol	0.065	0.028#	56.9#	93	0.00
14	T	Bromoethene	0.452	0.400	11.5	91	0.00
15	T	Acetone	1.399	1.254	10.4	107	0.00
16	T	1,3-Butadiene	0.683	0.613	10.2	102	0.00
17		tert-Butyl alcohol	1.742	1.409	19.1	83	0.00
18	T	1,1-Dichloroethene	0.552	0.476	13.8	90	0.00
19	T	Isopropyl Alcohol	0.789	0.680	13.8	92	0.00
20	T	Methylene Chloride	0.521	0.440	15.5	96	0.00
21	T	Allyl Chloride	0.986	0.899	8.8	95	0.00
22	T	trans-1,2-Dichloroethene	0.638	0.566	11.3	91	0.00
23	T	Vinyl Acetate	0.605	0.488	19.3	94	0.00
24	T	1,1-Dichloroethane	1.183	1.164	1.6	99	0.00
25	T	Ethyl Acetate	3.630	3.641	-0.3	100	0.00
26	T	Hexane	1.402	1.362	2.9	97	0.00
27	T	Carbon Disulfide	1.503	1.385	7.9	92	0.00
28	T	Methyl tert-Butyl Ether	0.873	0.694	20.5	80	0.00
29	T	Chloroform	2.052	2.156	-5.1	106	0.00
30	T	Cyclohexane	1.217	1.095	10.0	90	0.00
31	T	cis-1,2-Dichloroethene	1.423	1.294	9.1	90	0.00
32	T	1,1,1-Trichloroethane	2.349	2.102	10.5	97	0.00
33	I	1,4-Difluorobenzene	1.000	1.000	0.0	82	0.00
34	T	2-Butanone	0.725	0.800	-10.3	99	0.00
35	T	Carbon Tetrachloride	0.781	0.876	-12.2	103	0.00
36	T	Benzene	0.991	1.066	-7.6	94	0.00
37	T	1,2-Dichloroethane	0.568	0.640	-12.7	98	0.00
38	T	Trichloroethene	0.414	0.436	-5.3	96	0.00
39	T	1,2-Dichloropropane	0.361	0.395	-9.4	96	0.00
40	T	1,4-Dioxane	0.192	0.183	4.7	89	0.00
41	T	Tetrahydrofuran	0.418	0.454	-8.6	94	0.00
42	T	Bromodichloromethane	0.782	0.900	-15.1	96	0.00
43		Methyl Methacrylate	0.420	0.389	7.4	79	0.00
44	T	2,2,4-Trimethylpentane	1.675	1.905	-13.7	97	0.00
45	T	t-1,3-Dichloropropene	0.450	0.368	18.2	69	0.00
46	T	cis-1,3-Dichloropropene	0.552	0.495	10.3	74	0.00
47	T	1,1,2-Trichloroethane	0.382	0.435	-13.9	99	0.00
48	T	Dibromochloromethane	0.647	0.710	-9.7	92	0.00

Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041025\
Data File : VL042300.D
Acq On : 10 Apr 2025 09:27
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_L
LabSampleId : VSTDCCC010

Quant Time: Apr 11 01:54:45 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	0.637	-9.6	90	0.00
50	T	4-Methyl-2-Pentanone	1.149	1.132	1.5	91	0.00
51	T	2-Hexanone	0.944	0.892	5.5	87	0.00
52	T	Tetrachloroethene	0.393	0.363	7.6	87	0.00
53	T	Toluene	1.175	1.159	1.4	85	0.00
54	T	1,2-Dibromoethane	0.532	0.577	-8.5	93	0.00
55	I	Chlorobenzene-d5	1.000	1.000	0.0	75	0.00
56		1,1,1,2-Tetrachloroethane	0.550	0.690	-25.5	101	0.00
57	T	Chlorobenzene	0.949	1.158	-22.0	99	0.00
58	T	Ethyl Benzene	1.776	1.921	-8.2	86	0.00
59	T	m/p-Xylene	1.418	1.676	-18.2	95	0.00
60	T	o-Xylene	1.422	1.663	-16.9	94	0.00
61	T	Styrene	0.703	0.715	-1.7	78	0.00
62		Isopropylbenzene	2.126	2.484	-16.8	95	0.00
63	T	1,1,2,2-Tetrachloroethane	0.864	1.113	-28.8	104	0.00
64		n-propylbenzene	0.547	0.659	-20.5	99	0.00
65		tert-Butylbenzene	1.966	2.283	-16.1	98	0.00
66	T	Benzyl Chloride	0.209	0.172	17.7	63	0.00
67		sec-Butylbenzene	2.733	3.246	-18.8	101	0.00
68	S	1-Bromo-4-Fluorobenzene	0.821	0.814	0.9	75	0.00
69		p-Isopropyltoluene	2.354	2.787	-18.4	100	0.00
70		n-Butylbenzene	2.407	2.872	-19.3	100	0.00
71		2-Chlorotoluene	1.650	1.896	-14.9	92	0.00
72	T	4-Ethyltoluene	1.770	2.081	-17.6	95	0.00
73	T	1,3,5-Trimethylbenzene	1.546	1.796	-16.2	97	0.00
74	T	1,2,4-Trimethylbenzene	1.781	2.046	-14.9	101	0.00
75	T	1,3-Dichlorobenzene	0.977	1.247	-27.6	106	0.00
76	T	1,4-Dichlorobenzene	0.972	1.231	-26.6	104	0.00
77	T	1,2-Dichlorobenzene	0.951	1.235	-29.9	109	0.00
78	T	Hexachloro-1,3-Butadiene	0.968	0.974	-0.6	91	0.00
79	T	Naphthalene	1.948	2.344	-20.3	97	0.00
80	T	Naphthalene,2-methyl-	0.955	1.086	-13.7	82	0.00
81	T	1,2,4-Trichlorobenzene	0.899	1.037	-15.4	90	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041025\
Data File : VL042301.D
Acq On : 10 Apr 2025 10:11
Operator : SY/MD
Sample : VL0410ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0410ABL01

Quant Time: Apr 11 01:55:36 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

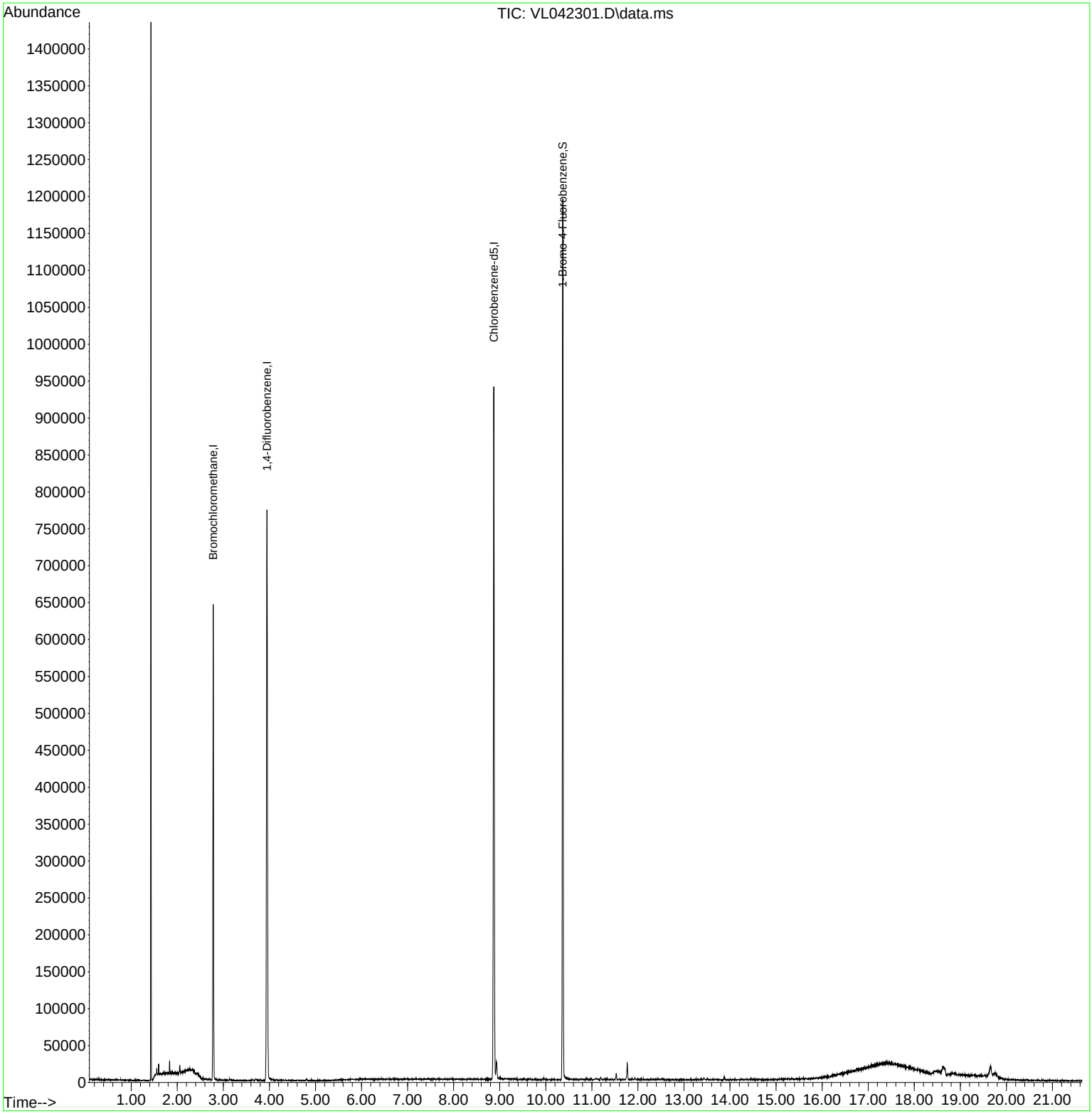
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.781	49	176739	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.949	114	440263	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.872	117	371291	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.367	95	272765	8.946	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 89.500%			
Target Compounds						Qvalue

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041025\
Data File : VL042301.D
Acq On : 10 Apr 2025 10:11
Operator : SY/MD
Sample : VL0410ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0410ABL01

Quant Time: Apr 11 01:55:36 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\VL041025\
Data File : VL042302.D
Acq On : 10 Apr 2025 11:05
Operator : SY/MD
Sample : VL0410ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 11 01:55:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VL0410ABS01

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 04/11/2025
Supervised By :Mahesh Dadoda 04/11/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.780	49	181992	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.949	114	454728	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.872	117	404669	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.370	95	327827	9.865	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 98.600%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.495	85	251268	9.351	ppbv	100
3) Chlorodifluoromethane	1.473	51	281024	10.237	ppbv	100
4) Chloromethane	1.531	50	108261	9.858	ppbv	96
5) Vinyl Chloride	1.576	62	98639	8.476	ppbv	99
6) Bromomethane	1.664	94	45101	9.063	ppbv	98
7) Chloroethane	1.699	64	39048	8.858	ppbv	100
8) Dichlorotetrafluoroethane	1.550	85	217598	9.509	ppbv	96
9) Propene	1.479	41	109142	8.674	ppbv	98
10) Heptane	4.965	43	316659	9.462	ppbv	100
11) Trichlorofluoromethane	1.874	101	245155	9.376	ppbv	96
12) 1,1,2-Trichlorotrifluo...	2.133	101	188616	8.776	ppbv	98
13) Ethanol	1.719	45	6073	5.106	ppbv	83
14) Bromoethene	1.777	108	70885	8.610	ppbv	99
15) Acetone	1.832	43	224780	8.831	ppbv	97
16) 1,3-Butadiene	1.605	39	108045	8.692	ppbv	99
17) tert-Butyl alcohol	2.036	59	241572	7.620	ppbv	99
18) 1,1-Dichloroethene	2.029	96	84303	8.391	ppbv	99
19) Isopropyl Alcohol	1.881	45	121689	8.474	ppbv	93
20) Methylene Chloride	2.055	84	75086	7.921	ppbv	90
21) Allyl Chloride	2.091	41	159249	8.872	ppbv	97
22) trans-1,2-Dichloroethene	2.334	96	98486	8.482	ppbv	99
23) Vinyl Acetate	2.457	43	84988	7.715	ppbv	98
24) 1,1-Dichloroethane	2.402	63	202298	9.398	ppbv	99
25) Ethyl Acetate	2.829	43	654276	9.904	ppbv	99
26) Hexane	2.819	57	244625	9.587	ppbv	96
27) Carbon Disulfide	2.146	76	237591	8.683	ppbv #	95
28) Methyl tert-Butyl Ether	2.434	73	122255	7.696	ppbv	96
29) Chloroform	2.842	83	385486	10.323	ppbv	100
30) Cyclohexane	3.845	84	196837	8.884	ppbv	97
31) cis-1,2-Dichloroethene	2.716	61	233042	8.996	ppbv	96
32) 1,1,1-Trichloroethane	3.360	97	375253	8.777	ppbv	98
34) 2-Butanone	2.551	43	367560	11.147	ppbv	97
35) Carbon Tetrachloride	3.755	117	392214	11.041	ppbv	100
36) Benzene	3.648	78	484758	10.753	ppbv	98
37) 1,2-Dichloroethane	3.211	62	290241	11.246	ppbv	99
38) Trichloroethene	4.538	130	193516	10.288	ppbv	99
39) 1,2-Dichloropropane	4.305	63	178422	10.868	ppbv	92
40) 1,4-Dioxane	4.570	88	81717	9.378	ppbv #	96
41) Tetrahydrofuran	3.049	42	201299	10.601	ppbv	95
42) Bromodichloromethane	4.480	83	406194	11.416	ppbv	100
43) Methyl Methacrylate	4.871	69	177759	9.315	ppbv	99
44) 2,2,4-Trimethylpentane	4.628	57	844094	11.080	ppbv	97
45) t-1,3-Dichloropropene	6.402	75	168205	8.215	ppbv	93

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041025\
Data File : VL042302.D
Acq On : 10 Apr 2025 11:05
Operator : SY/MD
Sample : VL0410ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 11 01:55:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VL0410ABS01

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 04/11/2025
Supervised By :Mahesh Dadoda 04/11/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) cis-1,3-Dichloropropene	5.587	75	226293	9.016	ppbv		98
47) 1,1,2-Trichloroethane	6.570	97	198266	11.424	ppbv		97
48) Dibromochloromethane	7.376	129	318857	10.841	ppbv		100
49) Bromoform	9.474	173	288223	10.915	ppbv		99
50) 4-Methyl-2-Pentanone	5.739	43	518035	9.913	ppbv		96
51) 2-Hexanone	7.428	43	414703	9.664	ppbv	#	94
52) Tetrachloroethene	8.215	164	165334	9.248	ppbv		97
53) Toluene	6.923	91	527837	9.877	ppbv		100
54) 1,2-Dibromoethane	7.642	107	265105	10.958	ppbv		100
56) 1,1,1,2-Tetrachloroethane	8.917	131	269261	12.088	ppbv		99
57) Chlorobenzene	8.914	112	453135	11.805	ppbv		97
58) Ethyl Benzene	9.348	91	773516	10.761	ppbv		99
59) m/p-Xylene	9.542	91	1316027m	22.929	ppbv		
60) o-Xylene	9.956	91	656144	11.404	ppbv		96
61) Styrene	9.862	104	283752	9.968	ppbv		99
62) Isopropylbenzene	10.532	105	968339	11.254	ppbv		99
63) 1,1,2,2-Tetrachloroethane	9.956	83	437804	12.523	ppbv		99
64) n-propylbenzene	10.982	120	260101	11.743	ppbv		98
65) tert-Butylbenzene	11.526	119	891006	11.197	ppbv		99
66) Benzyl Chloride	11.610	91	67064	7.943	ppbv		98
67) sec-Butylbenzene	11.762	105	1266690	11.452	ppbv		99
69) p-Isopropyltoluene	11.921	119	1065111	11.183	ppbv		99
70) n-Butylbenzene	12.277	91	1117359	11.471	ppbv		99
71) 2-Chlorotoluene	10.895	91	738389	11.057	ppbv		98
72) 4-Ethyltoluene	11.118	105	818929	11.431	ppbv		99
73) 1,3,5-Trimethylbenzene	11.199	105	705360	11.273	ppbv		99
74) 1,2,4-Trimethylbenzene	11.532	105	800991	11.112	ppbv		97
75) 1,3-Dichlorobenzene	11.603	146	481728	12.185	ppbv		98
76) 1,4-Dichlorobenzene	11.668	146	479693	12.192	ppbv		99
77) 1,2-Dichlorobenzene	11.940	146	477721	12.411	ppbv		98
78) Hexachloro-1,3-Butadiene	13.879	225	380053	9.700	ppbv		99
79) Naphthalene	13.510	128	905270	11.482	ppbv		99
80) Naphthalene,2-methyl-	14.455	142	422199	10.919	ppbv		99
81) 1,2,4-Trichlorobenzene	13.435	180	402319	11.063	ppbv		99

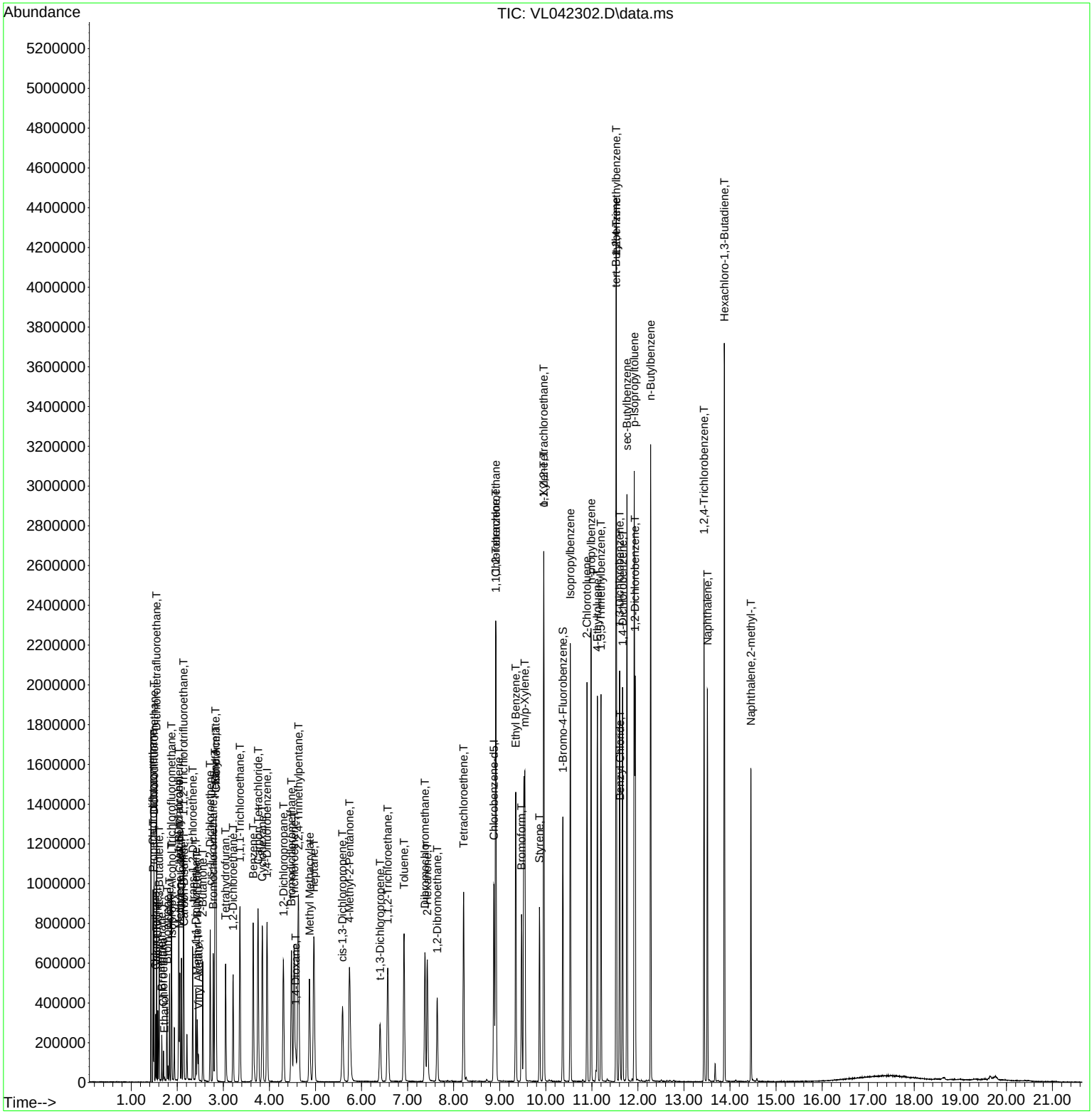
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041025\
Data File : VL042302.D
Acq On : 10 Apr 2025 11:05
Operator : SY/MD
Sample : VL0410ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 11 01:55:57 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 02:00:52 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VL0410ABS01

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 04/11/2025
Supervised By :Mahesh Dadoda 04/11/2025



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041025\
Data File : VL042308.D
Acq On : 10 Apr 2025 14:51
Operator : SY/MD
Sample : QC040825 CAN 10445
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
QC040825 CAN 10445

Quant Time: Apr 11 01:59:12 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

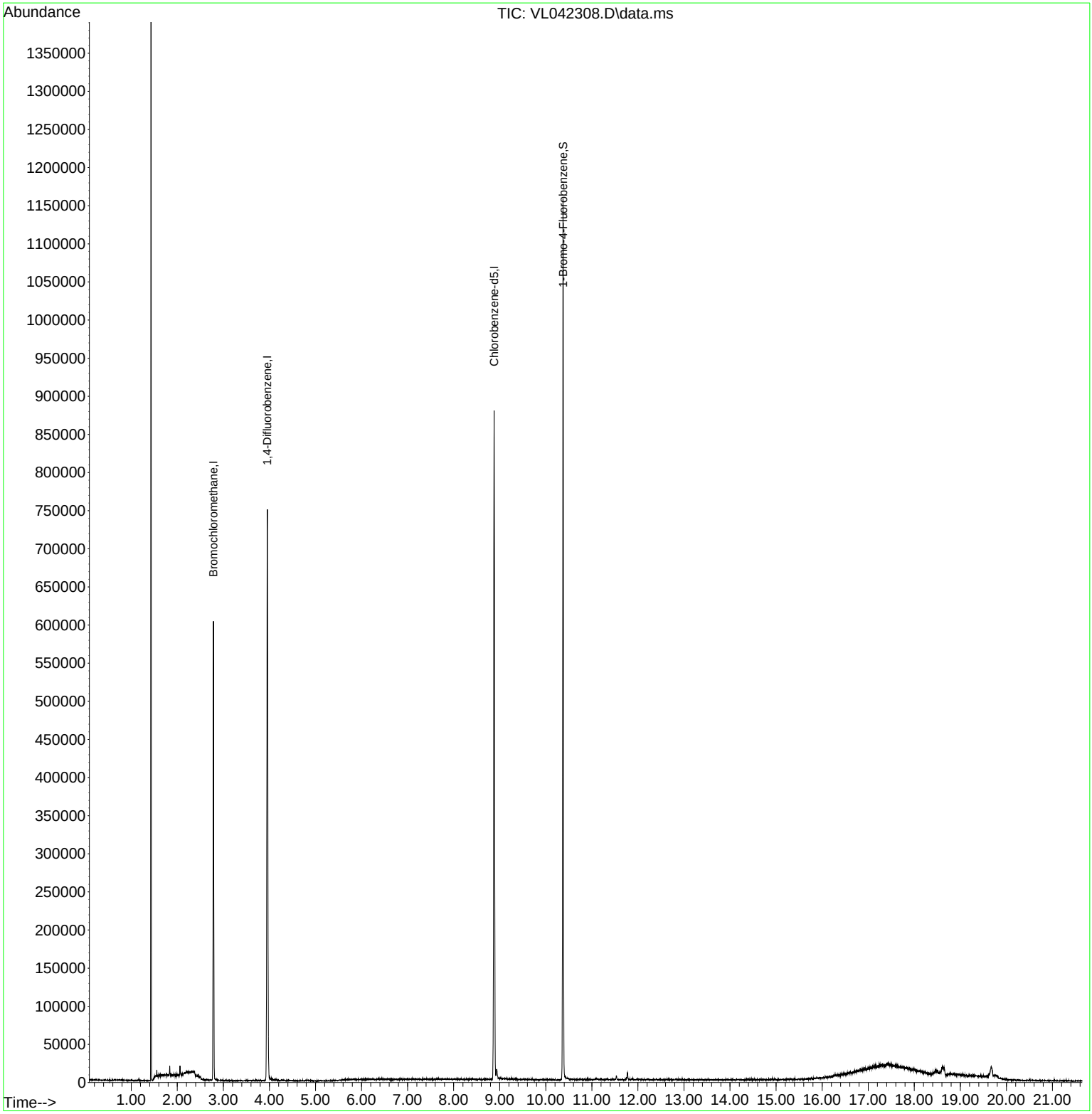
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.784	49	169533	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.955	114	400917	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.878	117	344890	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	257971	9.108	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 91.100%			
Target Compounds						Qvalue

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041025\
Data File : VL042308.D
Acq On : 10 Apr 2025 14:51
Operator : SY/MD
Sample : QC040825 CAN 10445
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
QC040825 CAN 10445

Quant Time: Apr 11 01:59:12 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\VL041025\
Data File : VL042309.D
Acq On : 10 Apr 2025 15:23
Operator : SY/MD
Sample : CAN10197
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
CAN10197

Quant Time: Apr 11 01:59:35 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	2.784	49	166549	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.955	114	388803	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.878	117	327264	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	247191	9.198	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 92.000%			
Target Compounds						Qvalue

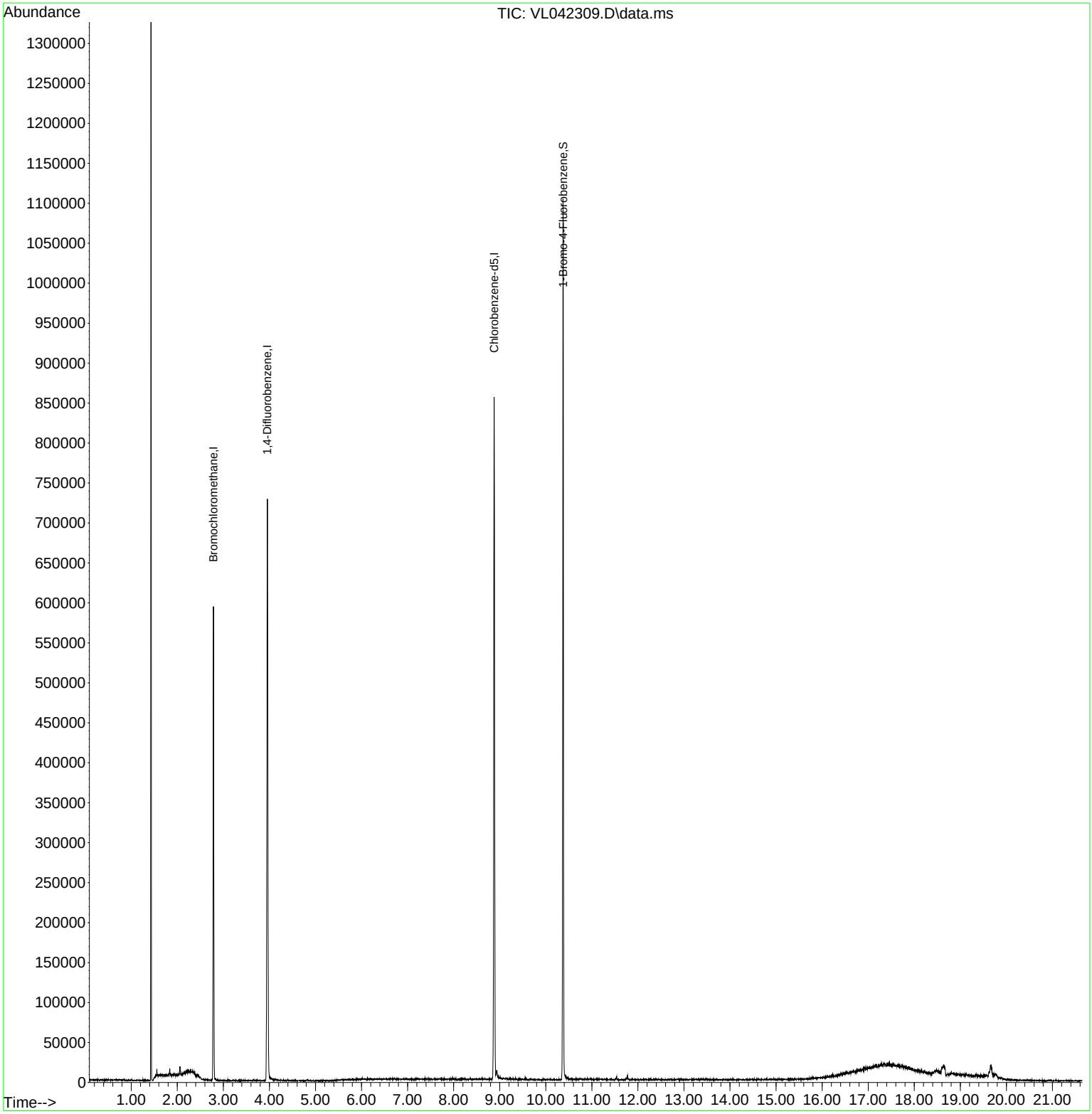
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041025\
Data File : VL042309.D
Acq On : 10 Apr 2025 15:23
Operator : SY/MD
Sample : CAN10197
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
CAN10197

Quant Time: Apr 11 01:59:35 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\VL041025\
Data File : VL042310.D
Acq On : 10 Apr 2025 15:54
Operator : SY/MD
Sample : CAN10607
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
CAN10607

Quant Time: Apr 11 01:59:54 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

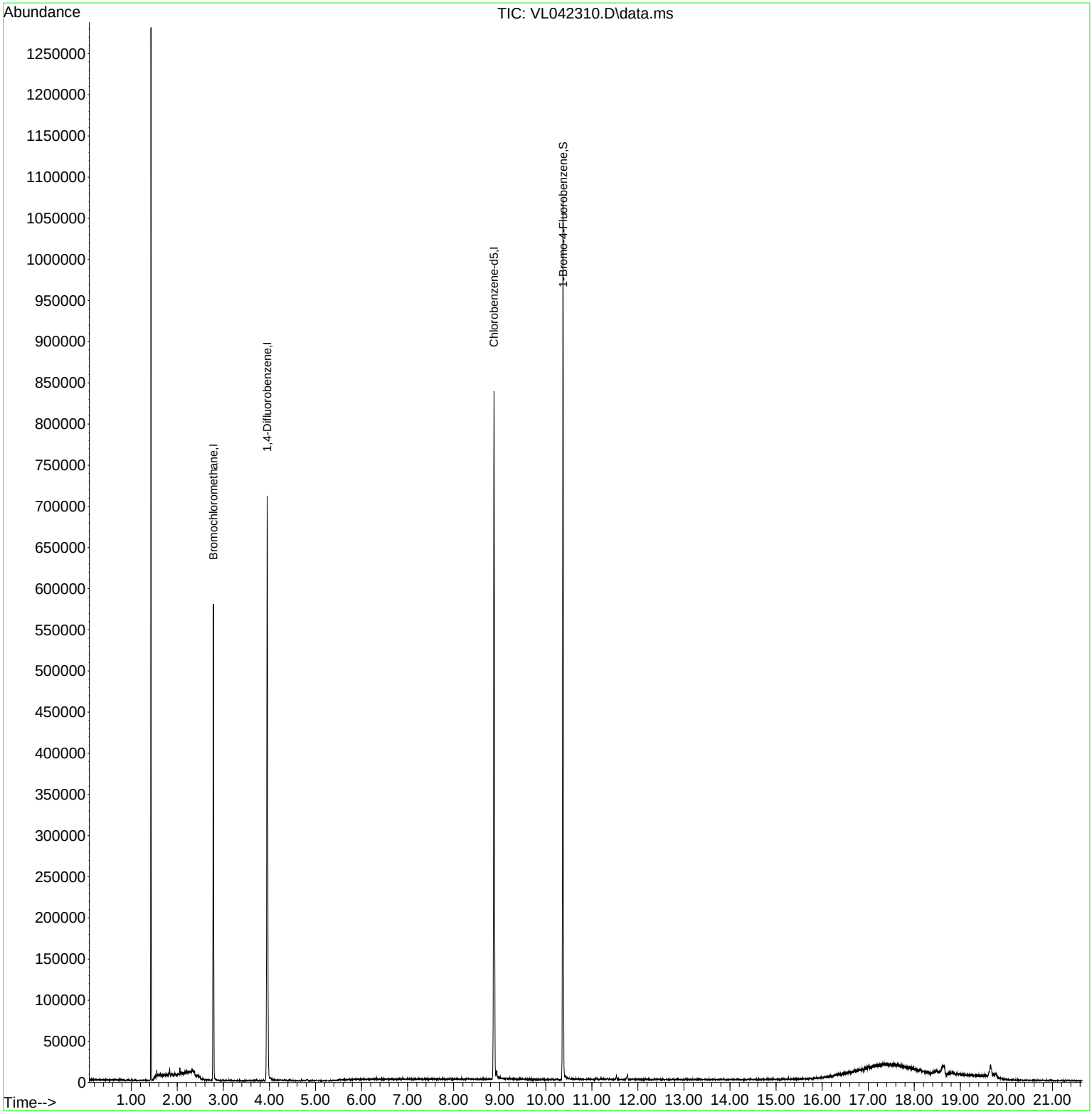
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.784	49	162463	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	373188	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	319344	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	239632	9.138	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 91.400%			
Target Compounds						Qvalue

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041025\
Data File : VL042310.D
Acq On : 10 Apr 2025 15:54
Operator : SY/MD
Sample : CAN10607
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
CAN10607

Quant Time: Apr 11 01:59:54 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 # 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

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 # VL041025

Review By	Semsettin Yesilyurt	Review On	4/11/2025 8:15:54 AM				
Supervise By	Mahesh Dadoda	Supervise On	4/11/2025 2:00:08 PM				
SubDirectory	VL041025	HP Acquire Method	TO15AIR.M	HP Processing Method	VL032725AIR.M		

STD. NAME	STD REF.#
Tune/Reschk	AP2591
Initial Calibration Stds	AP2593,AP2595,AP2596
CCC	AP2593
Internal Standard/PEM	AP2591
ICV/I.BLK	AP2594
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr #	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VL042299.D	10 Apr 2025 08:46	SY/MD	Ok
2	VSTDCCC010	VL042300.D	10 Apr 2025 09:27	SY/MD	Ok,M
3	VL0410ABL01	VL042301.D	10 Apr 2025 10:11	SY/MD	Ok
4	VL0410ABS01	VL042302.D	10 Apr 2025 11:05	SY/MD	Ok,M
5	Q1772-02	VL042303.D	10 Apr 2025 11:56	SY/MD	Ok,M
6	Q1772-02DUP	VL042304.D	10 Apr 2025 12:30	SY/MD	Ok,M
7	Q1772-01	VL042305.D	10 Apr 2025 13:01	SY/MD	Ok,M
8	QC040925 CAN 10604	VL042306.D	10 Apr 2025 13:49	SY/MD	Not Ok
9	QC040925 CAN 10604	VL042307.D	10 Apr 2025 14:20	SY/MD	Ok
10	QC040825 CAN 10445	VL042308.D	10 Apr 2025 14:51	SY/MD	Ok
11	CAN10197	VL042309.D	10 Apr 2025 15:23	SY/MD	Ok
12	CAN10607	VL042310.D	10 Apr 2025 15:54	SY/MD	Ok

M : Manual Integration

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050125\
Data File : VL042458.D
Acq On : 01 May 2025 09:03
Operator : SY/MD
Sample : VSTDICCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Quant Time: May 02 01:39:48 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri May 02 01:37:48 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.784	49	71402	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.955	114	201290	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.881	117	174168	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	165650	10.258	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 102.600%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	104948	8.882	ppbv	100
3) Chlorodifluoromethane	1.476	51	112008	8.966	ppbv	100
4) Chloromethane	1.531	50	44585	9.028	ppbv	100
5) Vinyl Chloride	1.580	62	40466	8.138	ppbv	100
6) Bromomethane	1.667	94	20392	8.680	ppbv	100
7) Chloroethane	1.703	64	16528	9.002	ppbv	100
8) Dichlorotetrafluoroethane	1.554	85	88162	9.051	ppbv	100
9) Propene	1.483	41	37491	9.175	ppbv	100
10) Heptane	4.978	43	103167	9.733	ppbv	100
11) Trichlorofluoromethane	1.874	101	98215	9.320	ppbv	100
12) 1,1,2-Trichlorotrifluo...	2.136	101	78482	9.015	ppbv	100
13) Ethanol	1.719	45	5679	6.849	ppbv	100
14) Bromoethene	1.780	108	28440	8.849	ppbv	100
15) Acetone	1.835	43	94092	7.219	ppbv	100
16) 1,3-Butadiene	1.609	39	48641	8.461	ppbv	100
17) tert-Butyl alcohol	2.039	59	106304	9.257	ppbv	100
18) 1,1-Dichloroethene	2.033	96	35320	8.689	ppbv	100
19) Isopropyl Alcohol	1.884	45	62533	8.668	ppbv	100
20) Methylene Chloride	2.059	84	32039	8.176	ppbv	100
21) Allyl Chloride	2.094	41	76859	9.169	ppbv	100
22) trans-1,2-Dichloroethene	2.340	96	39427	8.305	ppbv	100
23) Vinyl Acetate	2.460	43	123215	10.146	ppbv	100
24) 1,1-Dichloroethane	2.408	63	85367	8.814	ppbv	100
25) Ethyl Acetate	2.835	43	202215	9.689	ppbv	100
26) Hexane	2.826	57	86764	9.543	ppbv	100
27) Carbon Disulfide	2.146	76	101248	9.542	ppbv #	92
28) Methyl tert-Butyl Ether	2.437	73	47941	8.777	ppbv	100
29) Chloroform	2.848	83	156976	9.213	ppbv	100
30) Cyclohexane	3.855	84	74614	9.815	ppbv	100
31) cis-1,2-Dichloroethene	2.719	61	95797	9.031	ppbv	100
32) 1,1,1-Trichloroethane	3.366	97	163334	8.836	ppbv	100
34) 2-Butanone	2.557	43	132685	9.113	ppbv	100
35) Carbon Tetrachloride	3.758	117	166490	9.511	ppbv	100
36) Benzene	3.654	78	179532	9.451	ppbv	100
37) 1,2-Dichloroethane	3.217	62	133963	9.150	ppbv	100
38) Trichloroethene	4.544	130	69846	9.642	ppbv	100
39) 1,2-Dichloropropane	4.311	63	63894	8.979	ppbv	100
40) 1,4-Dioxane	4.583	88	18861	5.702	ppbv #	100
41) Tetrahydrofuran	3.052	42	65713	9.516	ppbv	100
42) Bromodichloromethane	4.486	83	168957	9.445	ppbv	100
43) Methyl Methacrylate	4.881	69	73117	10.339	ppbv	100
44) 2,2,4-Trimethylpentane	4.635	57	289161	9.420	ppbv	100
45) t-1,3-Dichloropropene	6.412	75	96692	10.385	ppbv	100

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050125\
Data File : VL042458.D
Acq On : 01 May 2025 09:03
Operator : SY/MD
Sample : VSTDICCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Quant Time: May 02 01:39:48 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri May 02 01:37:48 2025
Response via : Initial Calibration

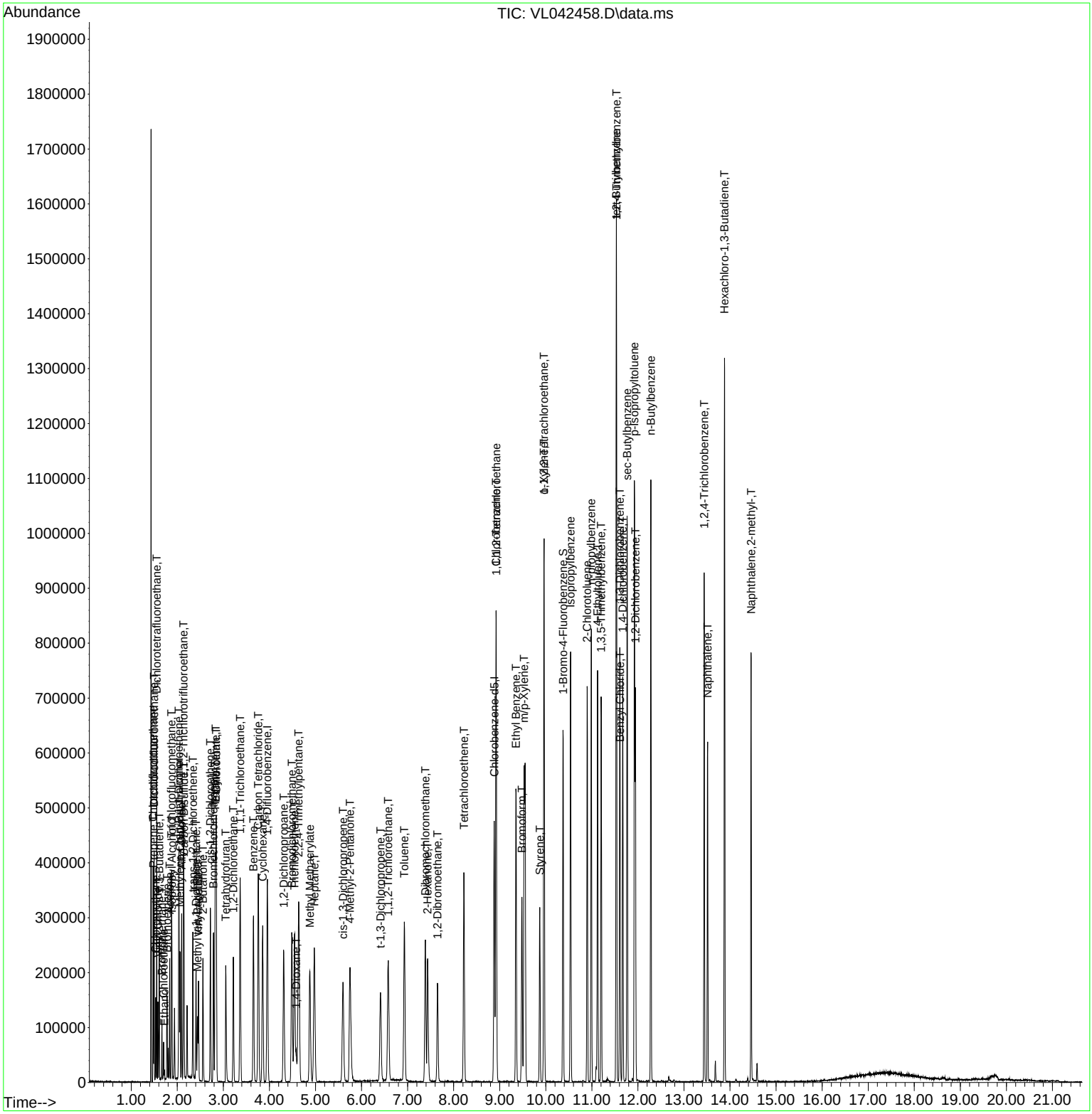
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) cis-1,3-Dichloropropene	5.600	75	111768	10.111	ppbv		100
47) 1,1,2-Trichloroethane	6.580	97	71805	9.207	ppbv		100
48) Dibromochloromethane	7.386	129	126754	9.628	ppbv		100
49) Bromoform	9.480	173	106108	9.610	ppbv		100
50) 4-Methyl-2-Pentanone	5.748	43	175193	9.518	ppbv		100
51) 2-Hexanone	7.435	43	145272	9.855	ppbv		100
52) Tetrachloroethene	8.224	164	61456	8.500	ppbv		100
53) Toluene	6.930	91	204494	10.171	ppbv		100
54) 1,2-Dibromoethane	7.648	107	111506	9.300	ppbv		100
56) 1,1,1,2-Tetrachloroethane	8.924	131	94346	9.172	ppbv		99
57) Chlorobenzene	8.920	112	157401	8.994	ppbv		100
58) Ethyl Benzene	9.354	91	300412	10.321	ppbv		100
59) m/p-Xylene	9.529	91	248589	10.187	ppbv	#	33
60) o-Xylene	9.963	91	247784	10.157	ppbv		100
61) Styrene	9.872	104	101509	11.134	ppbv		100
62) Isopropylbenzene	10.539	105	354055	10.047	ppbv		100
63) 1,1,2,2-Tetrachloroethane	9.963	83	147295	9.305	ppbv		100
64) n-propylbenzene	10.989	120	84006	9.787	ppbv		100
65) tert-Butylbenzene	11.529	119	316532	10.065	ppbv		100
66) Benzyl Chloride	11.613	91	40331	11.096	ppbv		100
67) sec-Butylbenzene	11.769	105	442600	9.903	ppbv		100
69) p-Isopropyltoluene	11.924	119	374540	9.947	ppbv		100
70) n-Butylbenzene	12.280	91	382883	9.836	ppbv		100
71) 2-Chlorotoluene	10.898	91	278215	10.065	ppbv		100
72) 4-Ethyltoluene	11.124	105	299831	10.409	ppbv		100
73) 1,3,5-Trimethylbenzene	11.202	105	256952	10.143	ppbv		100
74) 1,2,4-Trimethylbenzene	11.536	105	286615	9.351	ppbv		100
75) 1,3-Dichlorobenzene	11.607	146	155598	9.118	ppbv		100
76) 1,4-Dichlorobenzene	11.671	146	157966	9.782	ppbv		100
77) 1,2-Dichlorobenzene	11.947	146	150432	9.007	ppbv		100
78) Hexachloro-1,3-Butadiene	13.879	225	134402	8.058	ppbv		100
79) Naphthalene	13.513	128	266036	10.352	ppbv		100
80) Naphthalene,2-methyl-	14.458	142	204042	10.641	ppbv		100
81) 1,2,4-Trichlorobenzene	13.439	180	135473	9.844	ppbv		100

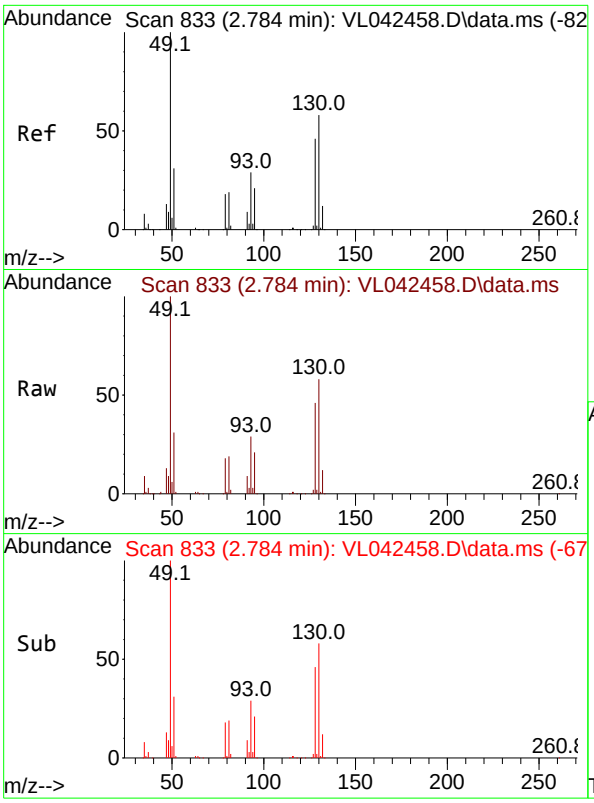
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050125\
Data File : VL042458.D
Acq On : 01 May 2025 09:03
Operator : SY/MD
Sample : VSTDICCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Quant Time: May 02 01:39:48 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri May 02 01:37:48 2025
Response via : Initial Calibration



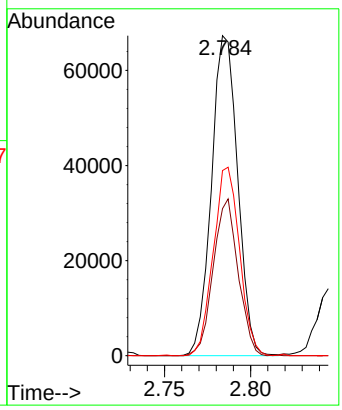


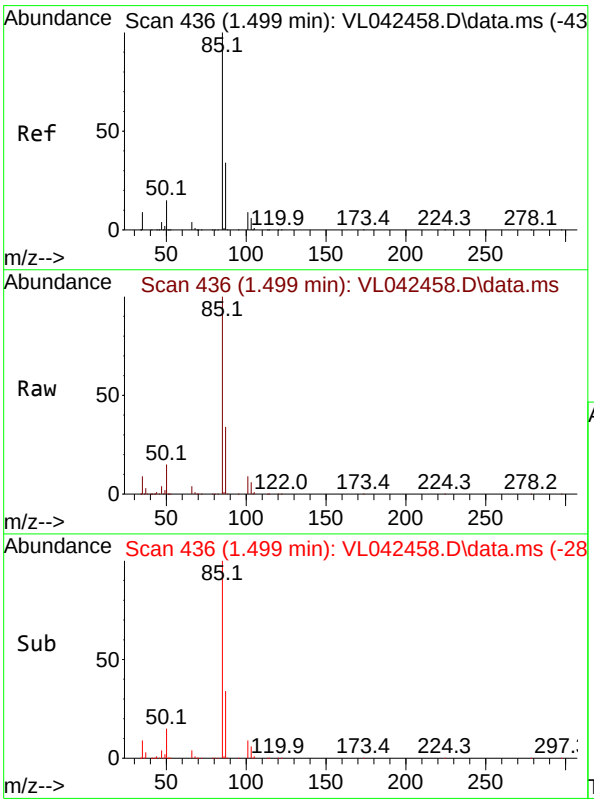
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL042458.D
Acq: 01 May 2025 09:03

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 49 Resp: 71402

Ion	Ratio	Lower	Upper
49	100		
128	46.6	23.3	69.9
130	59.1	29.5	88.6

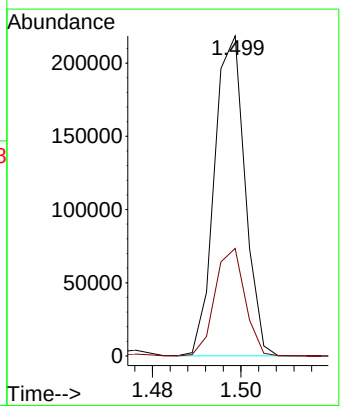


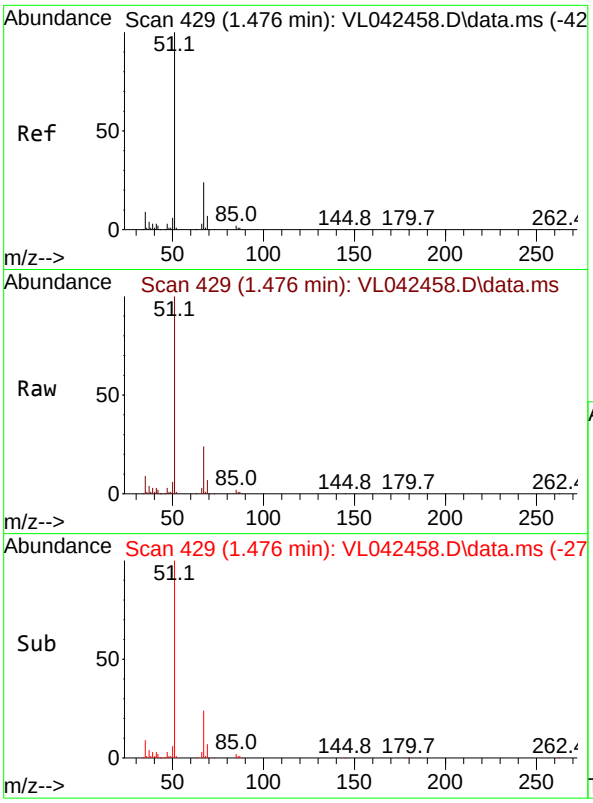


#2
Dichlorodifluoromethane
Concen: 8.882 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.000 min
Lab File: VL042458.D
Acq: 01 May 2025 09:03

Tgt Ion: 85 Resp: 104948

Ion	Ratio	Lower	Upper
85	100		
87	33.6	26.9	40.3



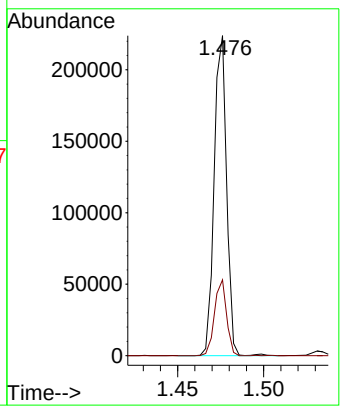


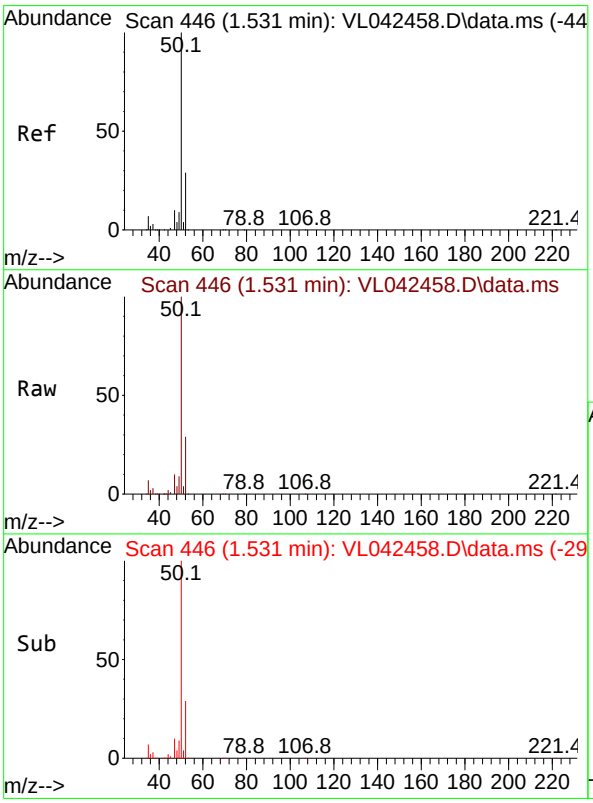
#3
Chlorodifluoromethane
Concen: 8.966 ppbv
RT: 1.476 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042458.D
Acq: 01 May 2025 09:03

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 51 Resp: 112008

Ion	Ratio	Lower	Upper
51	100		
67	23.0	18.4	27.6

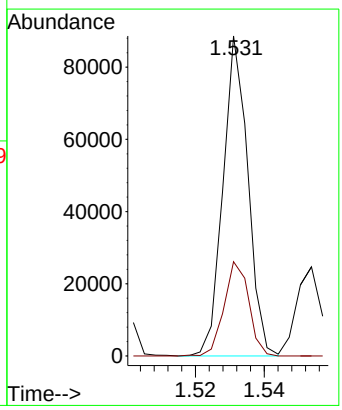


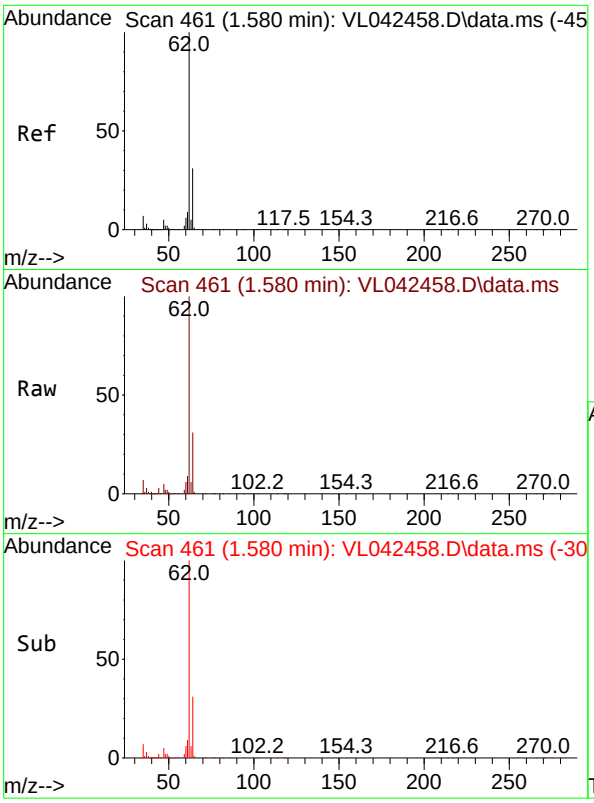


#4
Chloromethane
Concen: 9.028 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL042458.D
Acq: 01 May 2025 09:03

Tgt Ion: 50 Resp: 44585

Ion	Ratio	Lower	Upper
50	100		
52	29.4	23.5	35.3



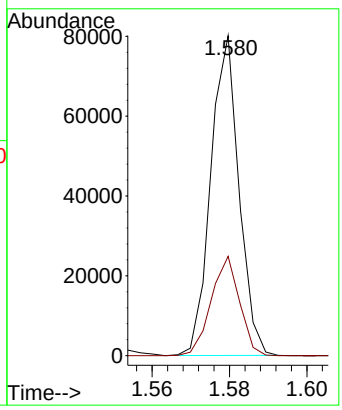


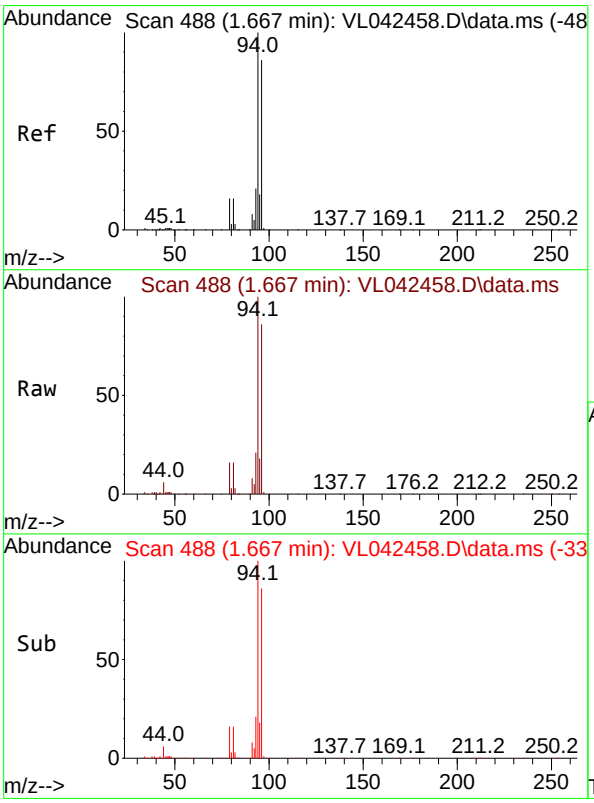
#5
Vinyl Chloride
Concen: 8.138 ppbv
RT: 1.580 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042458.D
Acq: 01 May 2025 09:03

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 62 Resp: 40466

Ion	Ratio	Lower	Upper
62	100		
64	31.1	24.9	37.3

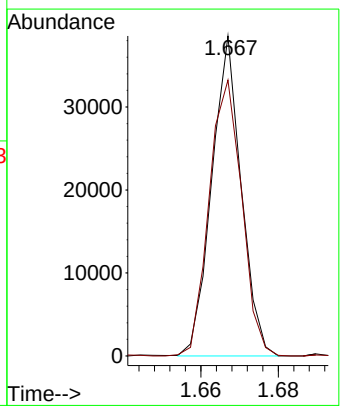


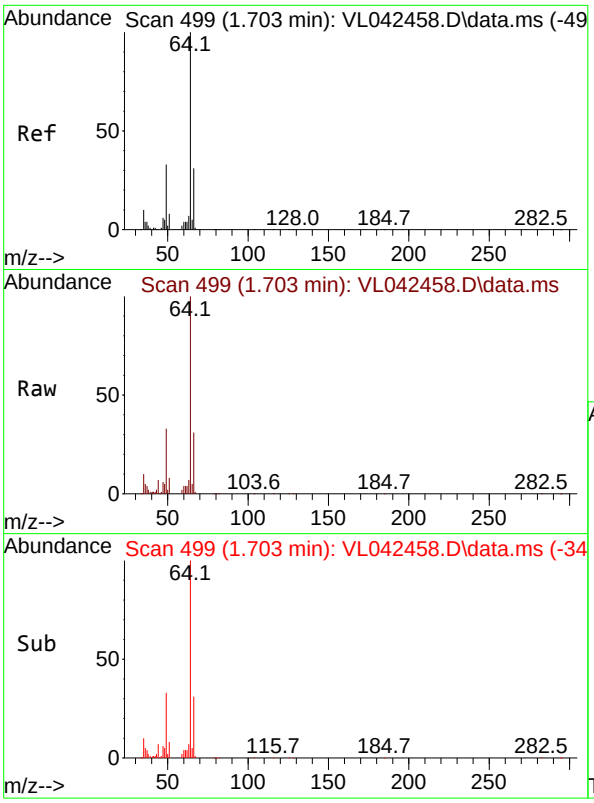


#6
Bromomethane
Concen: 8.680 ppbv
RT: 1.667 min Scan# 488
Delta R.T. 0.000 min
Lab File: VL042458.D
Acq: 01 May 2025 09:03

Tgt Ion: 94 Resp: 20392

Ion	Ratio	Lower	Upper
94	100		
96	86.0	68.8	103.2



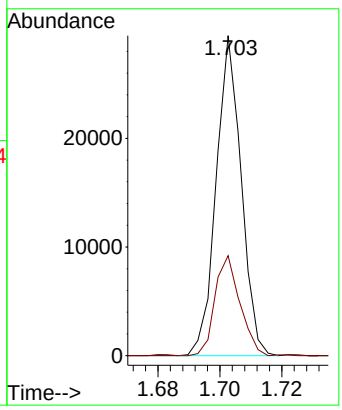


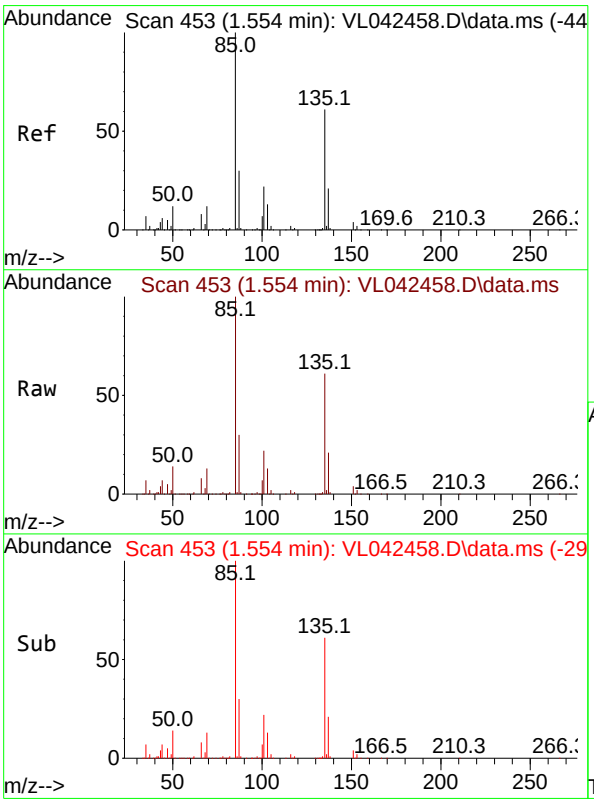
#7
Chloroethane
Concen: 9.002 ppbv
RT: 1.703 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042458.D
Acq: 01 May 2025 09:03

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 64 Resp: 16528

Ion	Ratio	Lower	Upper
64	100		
66	31.2	25.0	37.4

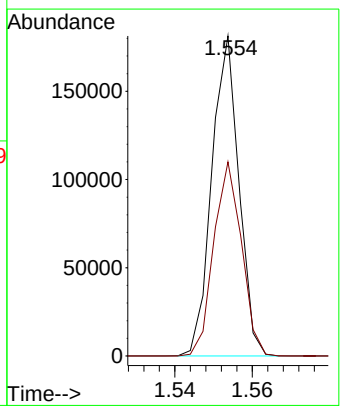


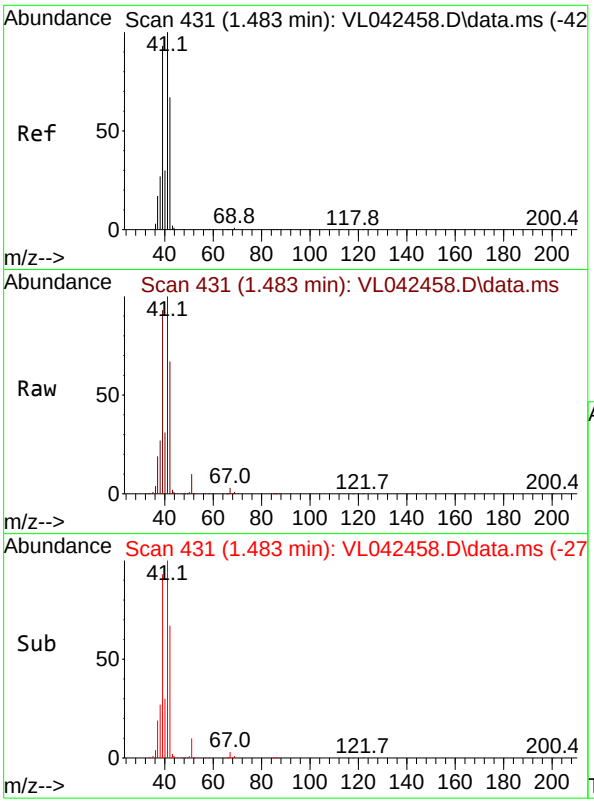


#8
Dichlorotetrafluoroethane
Concen: 9.051 ppbv
RT: 1.554 min Scan# 453
Delta R.T. 0.000 min
Lab File: VL042458.D
Acq: 01 May 2025 09:03

Tgt Ion: 85 Resp: 88162

Ion	Ratio	Lower	Upper
85	100		
135	62.3	49.8	74.8



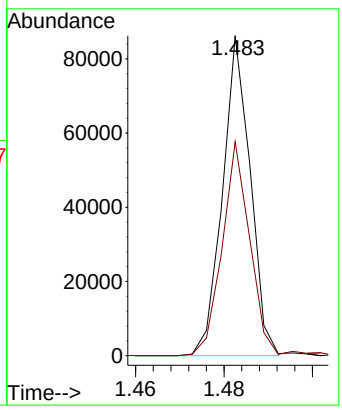


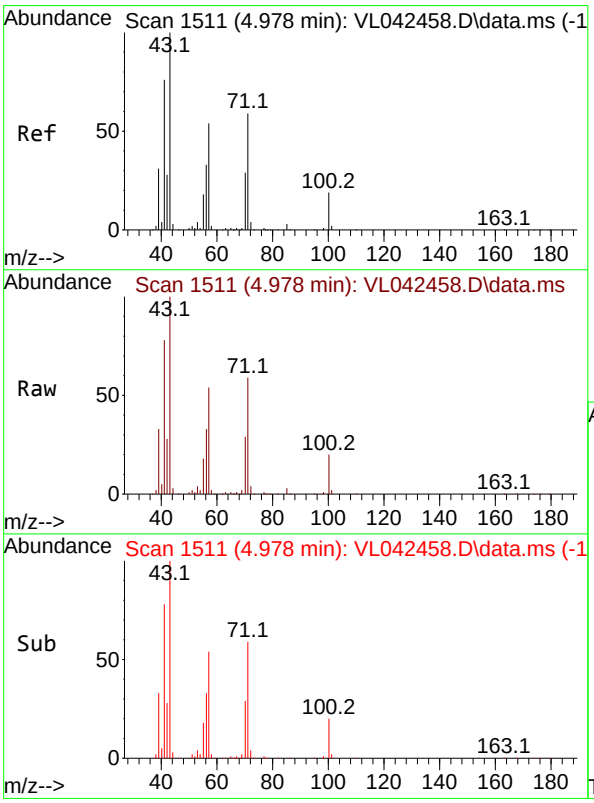
#9
Propene
Concen: 9.175 ppbv
RT: 1.483 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042458.D
Acq: 01 May 2025 09:03

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 41 Resp: 37491

Ion	Ratio	Lower	Upper
41	100		
42	67.9	54.3	81.5

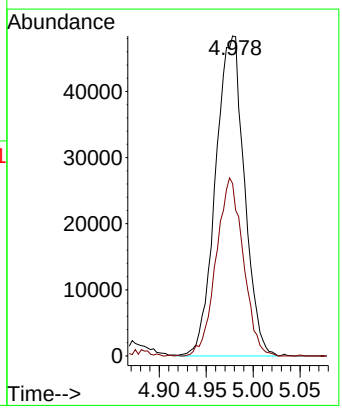


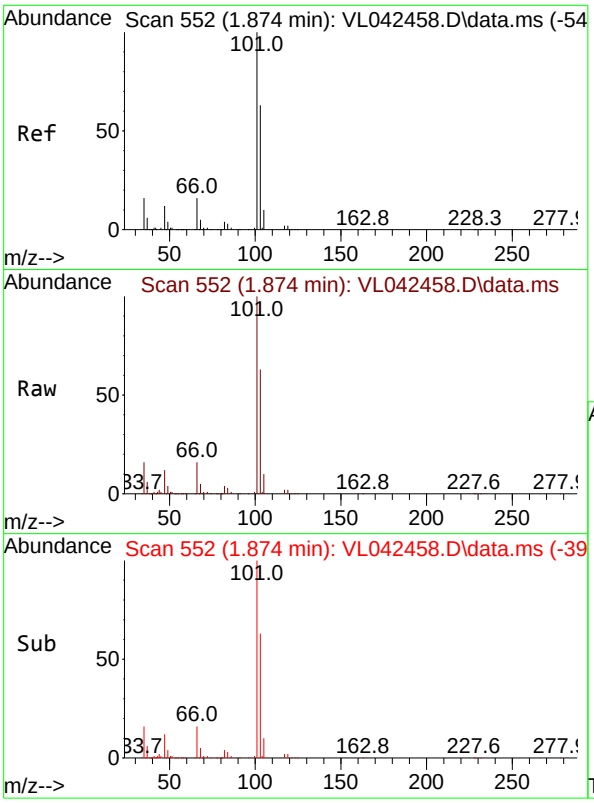


#10
Heptane
Concen: 9.733 ppbv
RT: 4.978 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VL042458.D
Acq: 01 May 2025 09:03

Tgt Ion: 43 Resp: 103167

Ion	Ratio	Lower	Upper
43	100		
57	52.3	41.8	62.8



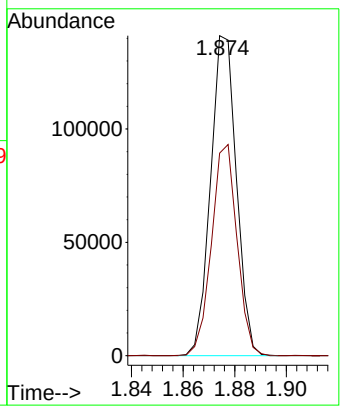


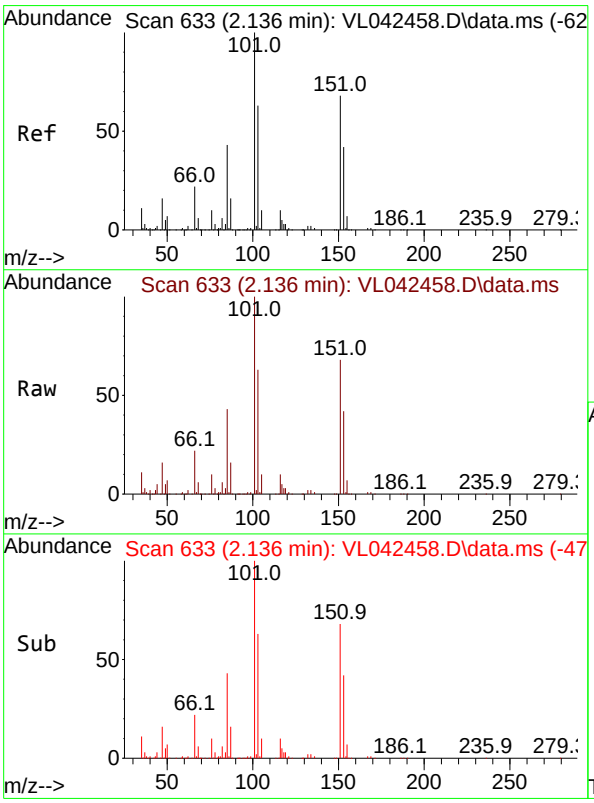
#11
Trichlorofluoromethane
Concen: 9.320 ppbv
RT: 1.874 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL042458.D
Acq: 01 May 2025 09:03

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion:101 Resp: 98215

Ion	Ratio	Lower	Upper
101	100		
103	63.3	50.6	76.0

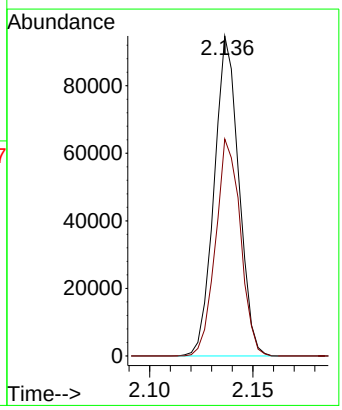


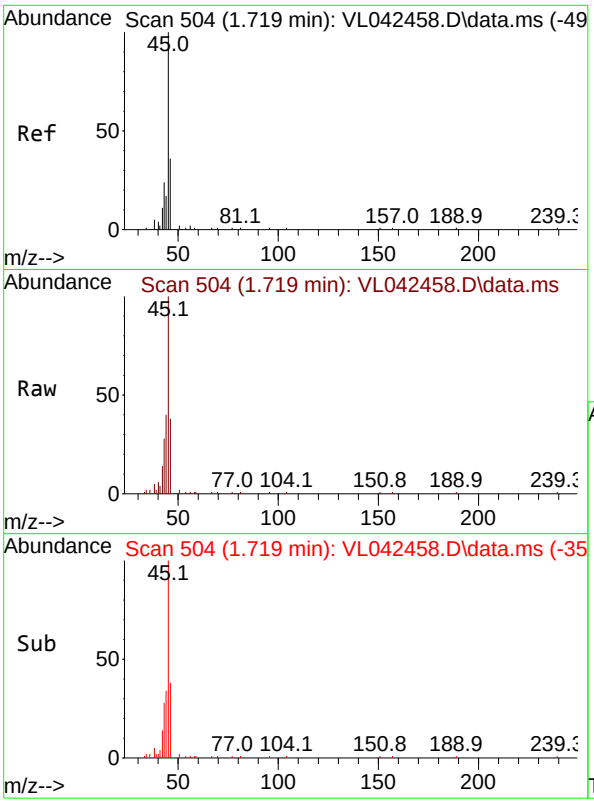


#12
1,1,2-Trichlorotrifluoroethane
Concen: 9.015 ppbv
RT: 2.136 min Scan# 633
Delta R.T. 0.000 min
Lab File: VL042458.D
Acq: 01 May 2025 09:03

Tgt Ion:101 Resp: 78482

Ion	Ratio	Lower	Upper
101	100		
151	68.3	54.6	82.0



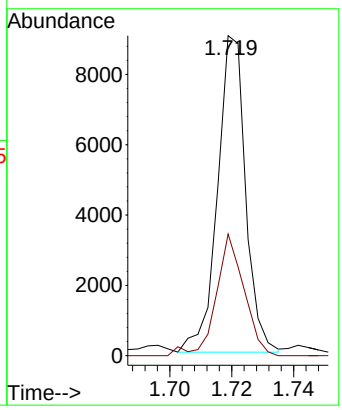


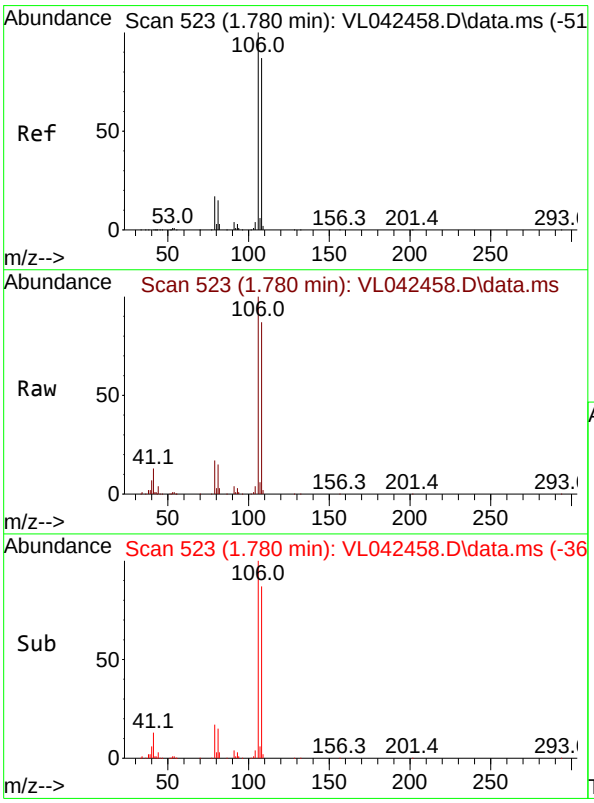
#13
Ethanol
Concen: 6.849 ppbv
RT: 1.719 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL042458.D
Acq: 01 May 2025 09:03

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 45 Resp: 5679

Ion	Ratio	Lower	Upper
45	100		
46	38.2	15.3	61.1

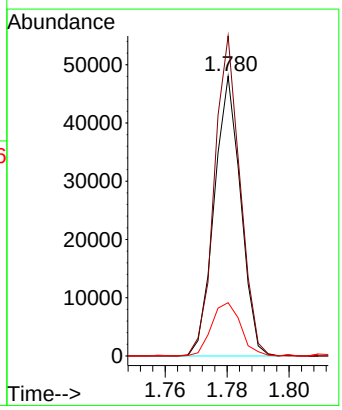


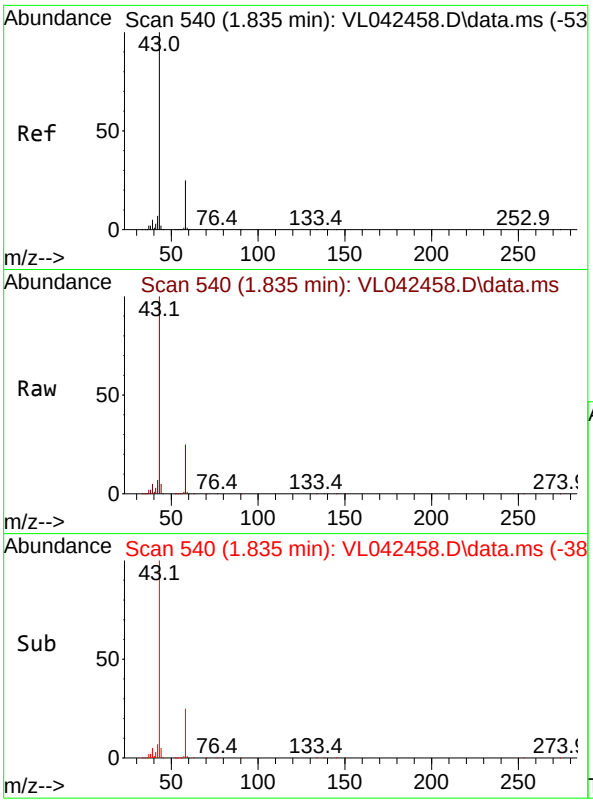


#14
Bromoethene
Concen: 8.849 ppbv
RT: 1.780 min Scan# 523
Delta R.T. 0.000 min
Lab File: VL042458.D
Acq: 01 May 2025 09:03

Tgt Ion:108 Resp: 28440

Ion	Ratio	Lower	Upper
108	100		
106	111.0	88.8	133.2
79	21.4	17.1	25.7



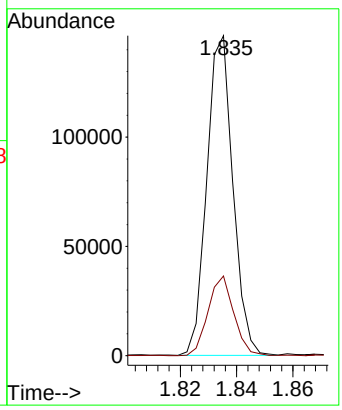


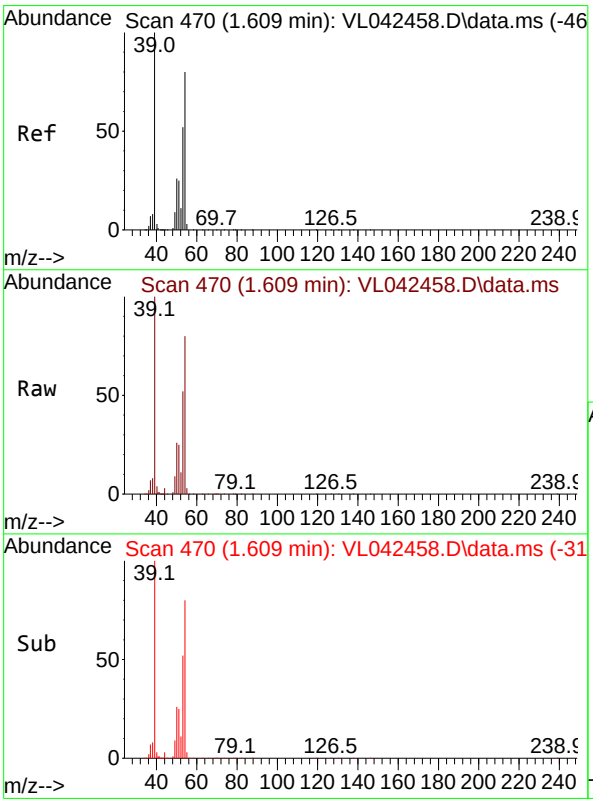
#15
Acetone
Concen: 7.219 ppbv
RT: 1.835 min Scan# 54
Delta R.T. 0.000 min
Lab File: VL042458.D
Acq: 01 May 2025 09:03

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 43 Resp: 94092

Ion	Ratio	Lower	Upper
43	100		
58	24.8	19.8	29.8

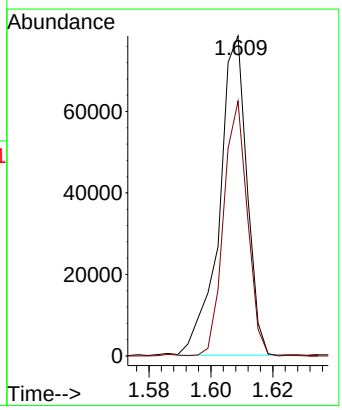


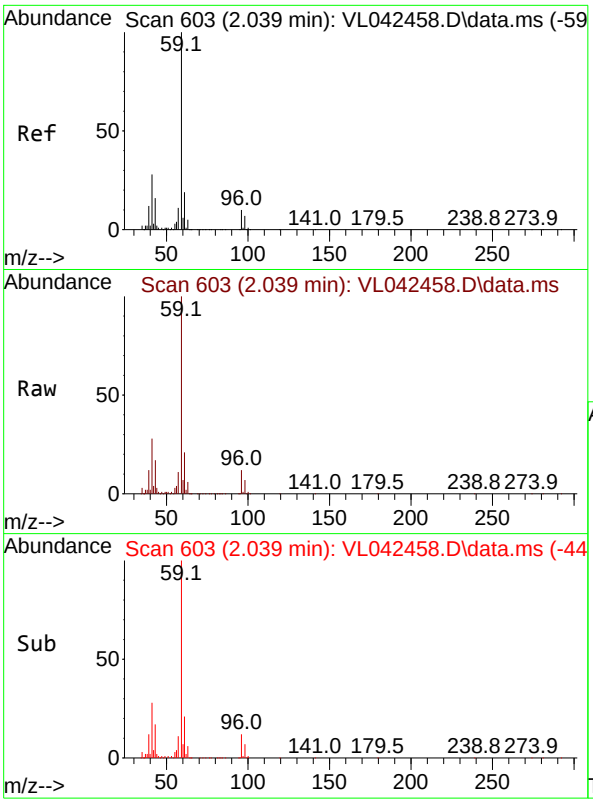


#16
1,3-Butadiene
Concen: 8.461 ppbv
RT: 1.609 min Scan# 470
Delta R.T. 0.000 min
Lab File: VL042458.D
Acq: 01 May 2025 09:03

Tgt Ion: 39 Resp: 48641

Ion	Ratio	Lower	Upper
39	100		
54	69.0	55.2	82.8



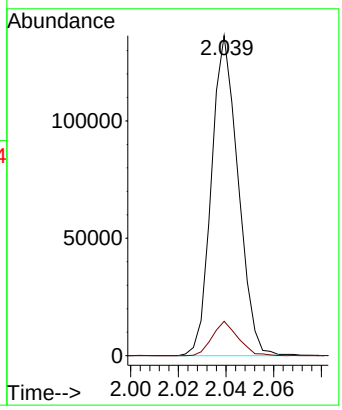


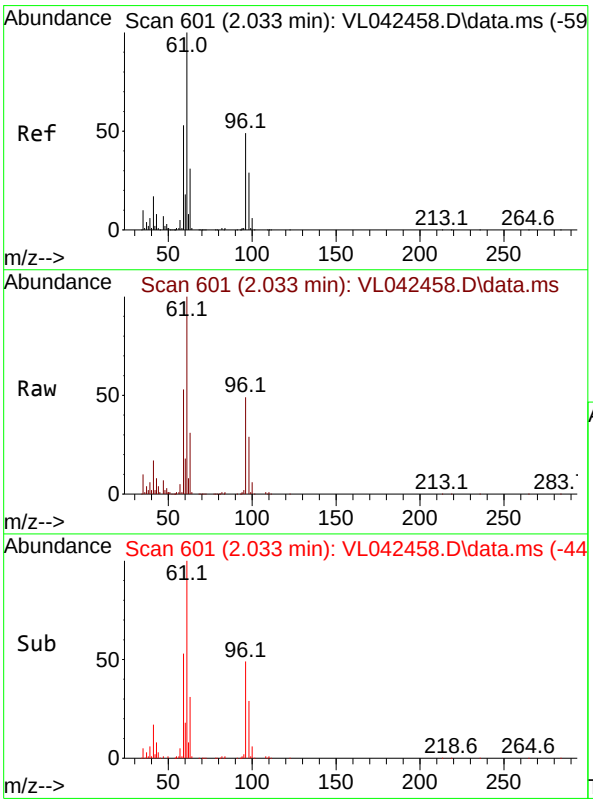
#17
tert-Butyl alcohol
Concen: 9.257 ppbv
RT: 2.039 min Scan# 6
Delta R.T. 0.000 min
Lab File: VL042458.D
Acq: 01 May 2025 09:03

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 59 Resp: 106304

Ion	Ratio	Lower	Upper
59	100		
57	10.4	8.3	12.5

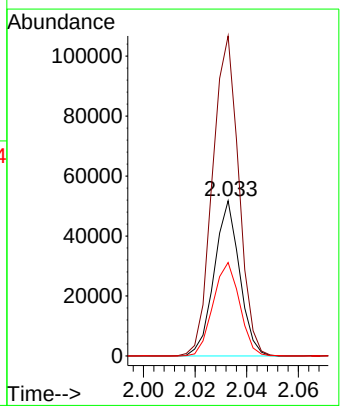


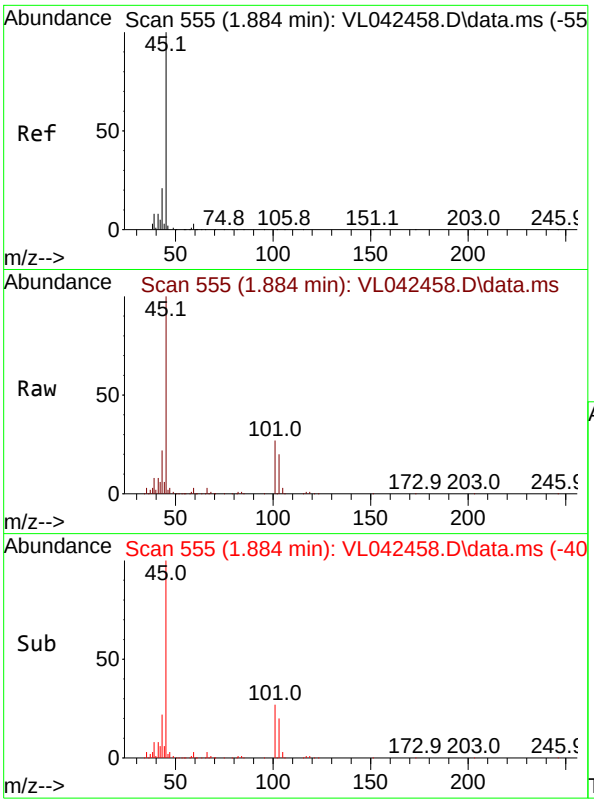


#18
1,1-Dichloroethene
Concen: 8.689 ppbv
RT: 2.033 min Scan# 601
Delta R.T. 0.000 min
Lab File: VL042458.D
Acq: 01 May 2025 09:03

Tgt Ion: 96 Resp: 35320

Ion	Ratio	Lower	Upper
96	100		
61	206.1	164.9	247.3
98	60.2	48.2	72.2



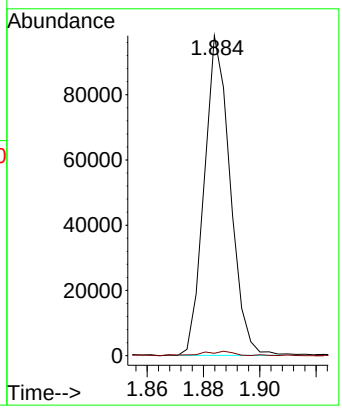


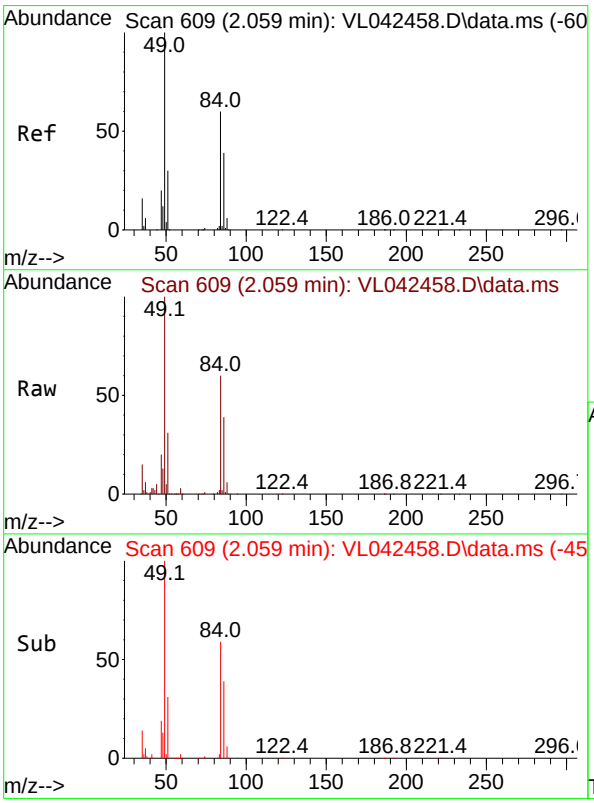
#19
Isopropyl Alcohol
Concen: 8.668 ppbv
RT: 1.884 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL042458.D
Acq: 01 May 2025 09:03

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 45 Resp: 62533

Ion	Ratio	Lower	Upper
45	100		
58	2.0	1.6	2.4

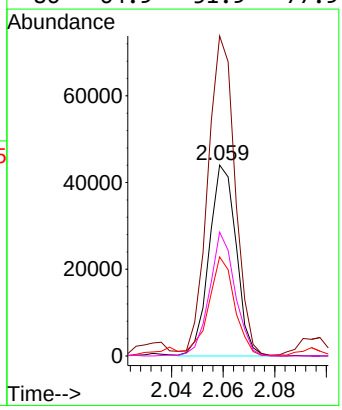


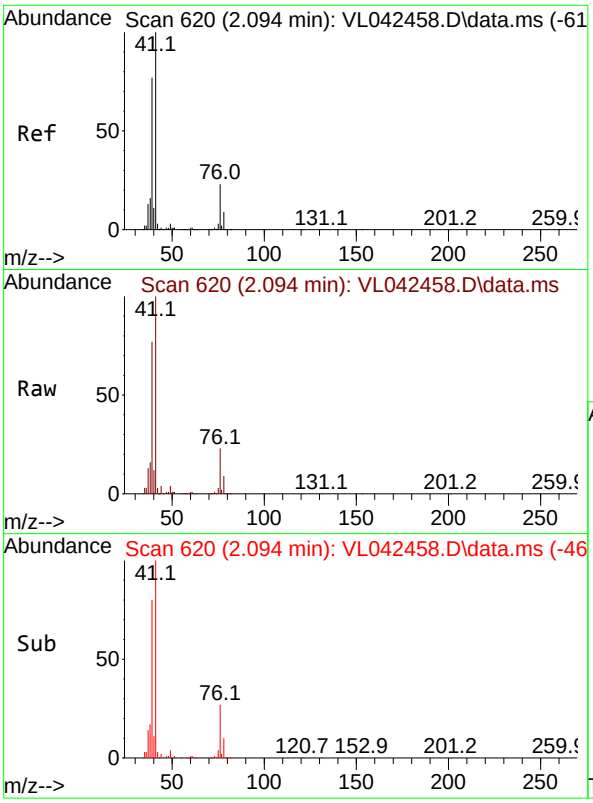


#20
Methylene Chloride
Concen: 8.176 ppbv
RT: 2.059 min Scan# 609
Delta R.T. 0.000 min
Lab File: VL042458.D
Acq: 01 May 2025 09:03

Tgt Ion: 84 Resp: 32039

Ion	Ratio	Lower	Upper
84	100		
49	167.4	133.9	200.9
51	51.3	41.0	61.6
86	64.9	51.9	77.9



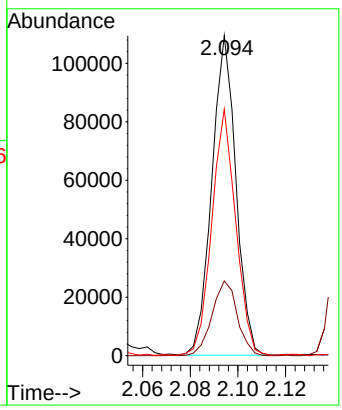


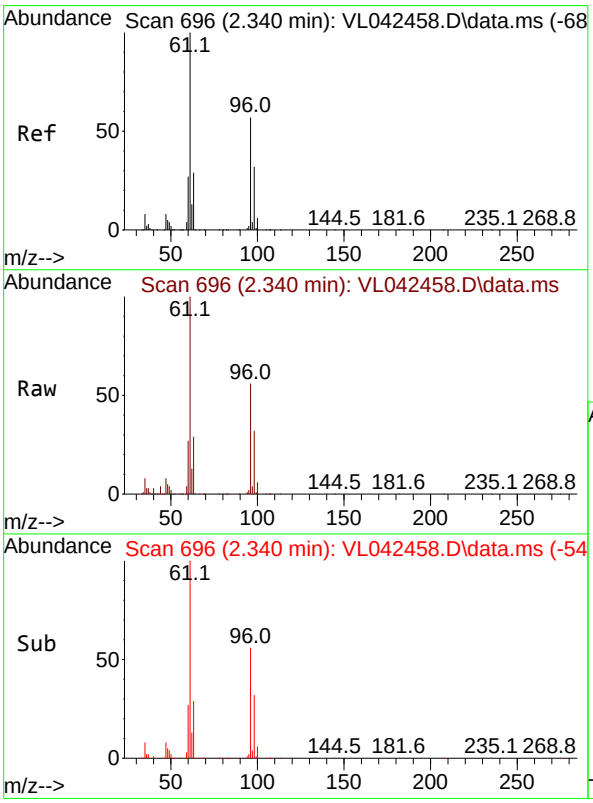
#21
Allyl Chloride
Concen: 9.169 ppbv
RT: 2.094 min Scan# 6
Delta R.T. 0.000 min
Lab File: VL042458.D
Acq: 01 May 2025 09:03

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 41 Resp: 76859

Ion	Ratio	Lower	Upper
41	100		
76	24.5	19.6	29.4
39	76.2	61.0	91.4

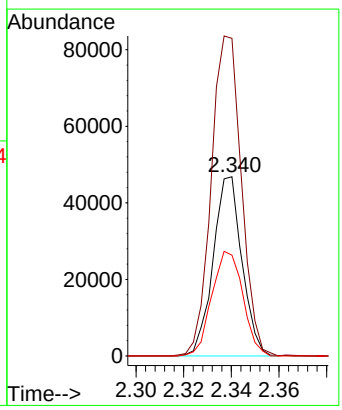


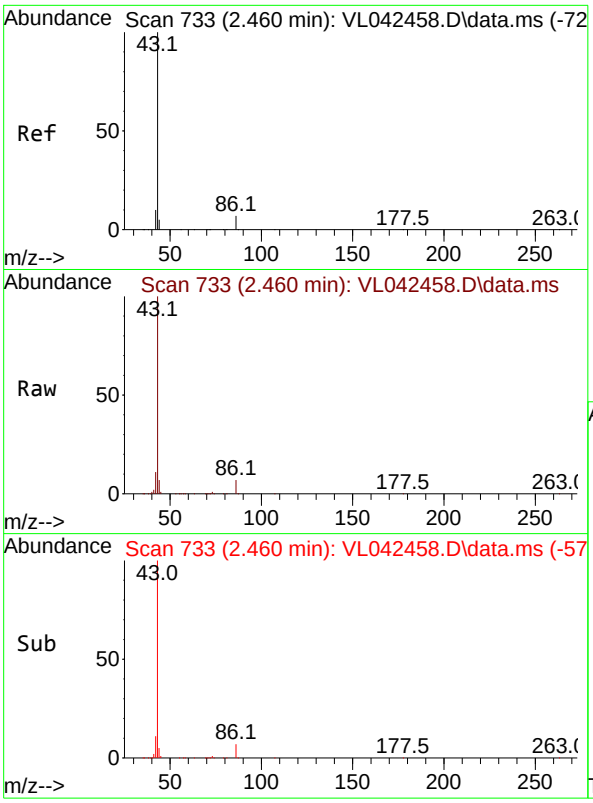


#22
trans-1,2-Dichloroethene
Concen: 8.305 ppbv
RT: 2.340 min Scan# 696
Delta R.T. 0.000 min
Lab File: VL042458.D
Acq: 01 May 2025 09:03

Tgt Ion: 96 Resp: 39427

Ion	Ratio	Lower	Upper
96	100		
61	177.2	141.8	212.6
98	56.3	45.0	67.6



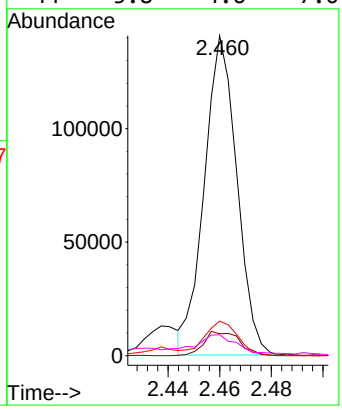


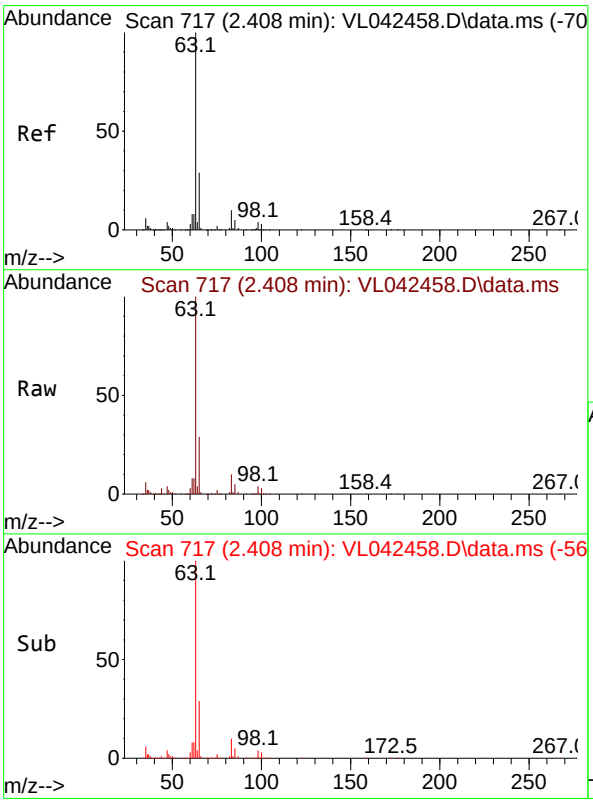
#23
Vinyl Acetate
Concen: 10.146 ppbv
RT: 2.460 min Scan# 7
Delta R.T. 0.000 min
Lab File: VL042458.D
Acq: 01 May 2025 09:03

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 43 Resp: 123215

Ion	Ratio	Lower	Upper
43	100		
86	6.9	5.5	8.3
42	10.4	8.3	12.5
44	5.8	4.6	7.0

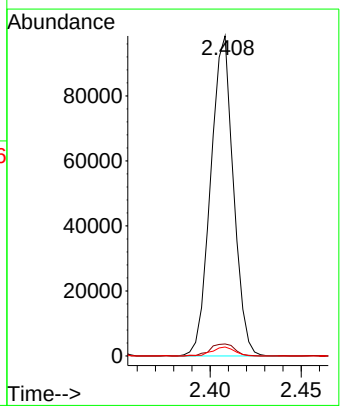


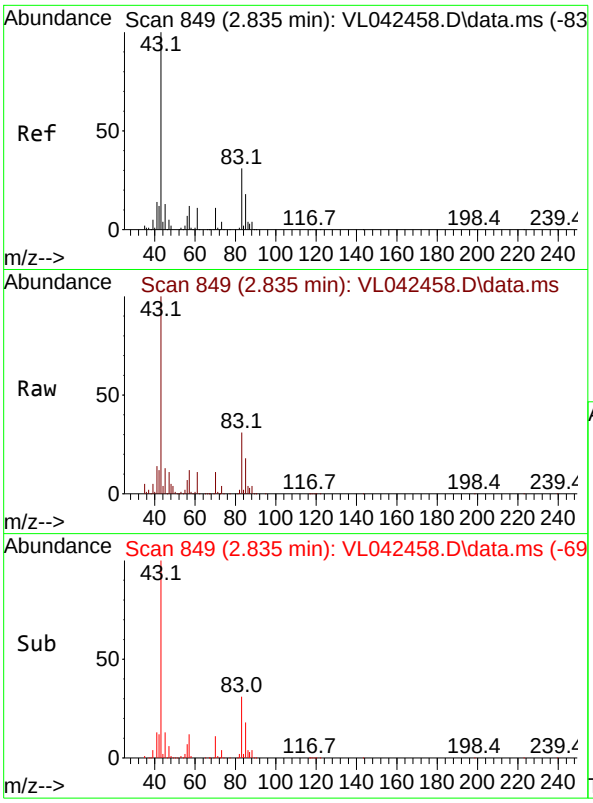


#24
1,1-Dichloroethane
Concen: 8.814 ppbv
RT: 2.408 min Scan# 717
Delta R.T. 0.000 min
Lab File: VL042458.D
Acq: 01 May 2025 09:03

Tgt Ion: 63 Resp: 85367

Ion	Ratio	Lower	Upper
63	100		
98	3.7	1.8	5.5
100	2.8	1.4	4.2



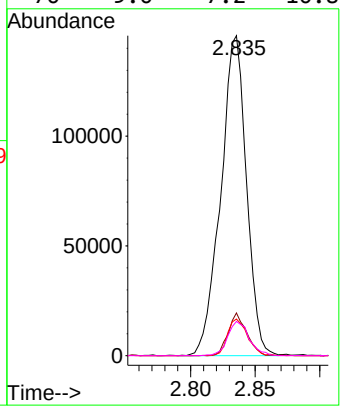


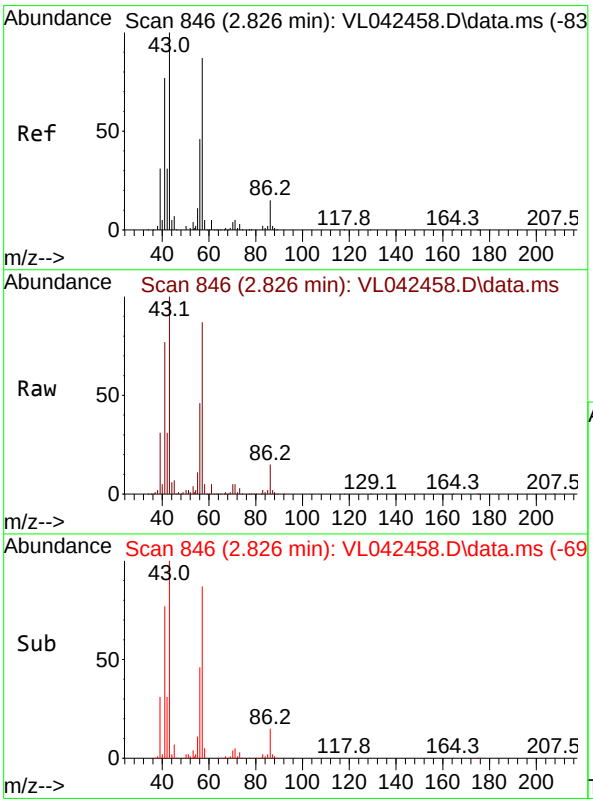
#25
Ethyl Acetate
Concen: 9.689 ppbv
RT: 2.835 min Scan# 84
Delta R.T. 0.000 min
Lab File: VL042458.D
Acq: 01 May 2025 09:03

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 43 Resp: 202215

Ion	Ratio	Lower	Upper
43	100		
45	9.7	7.8	11.6
61	9.0	7.2	10.8
70	9.0	7.2	10.8

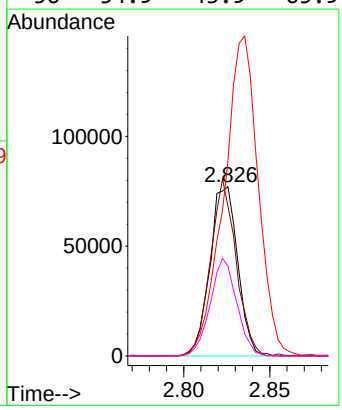


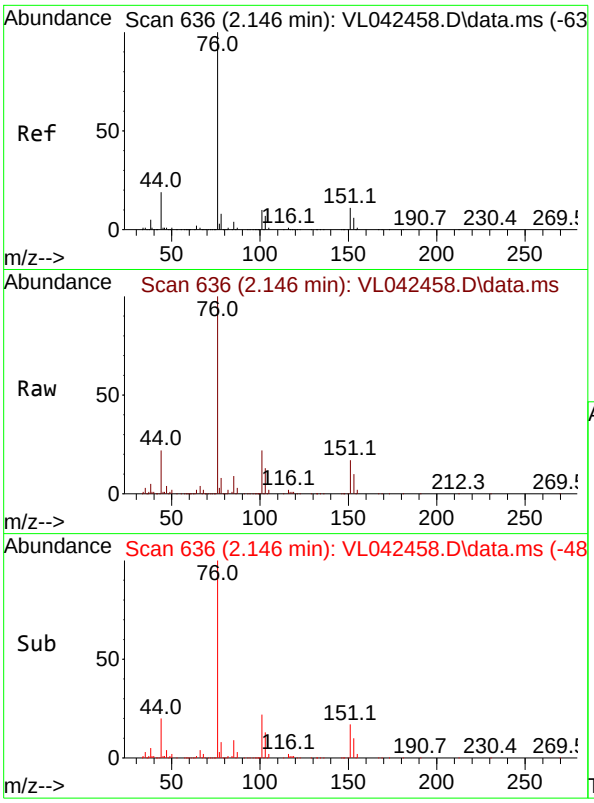


#26
Hexane
Concen: 9.543 ppbv
RT: 2.826 min Scan# 846
Delta R.T. 0.000 min
Lab File: VL042458.D
Acq: 01 May 2025 09:03

Tgt Ion: 57 Resp: 86764

Ion	Ratio	Lower	Upper
57	100		
41	97.3	77.8	116.8
43	233.8	187.0	280.6
56	54.9	43.9	65.9



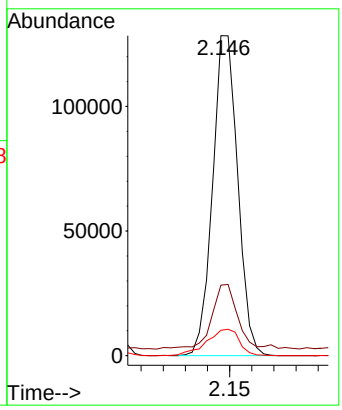


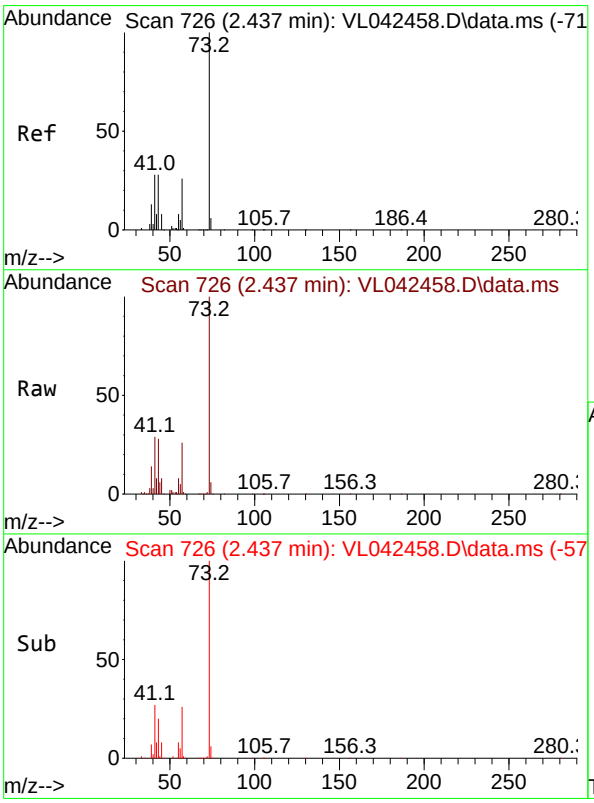
#27
Carbon Disulfide
Concen: 9.542 ppbv
RT: 2.146 min Scan# 6
Delta R.T. 0.000 min
Lab File: VL042458.D
Acq: 01 May 2025 09:03

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 76 Resp: 101248

Ion	Ratio	Lower	Upper
76	100		
44	20.8	21.0	31.6#
78	10.8	8.6	13.0

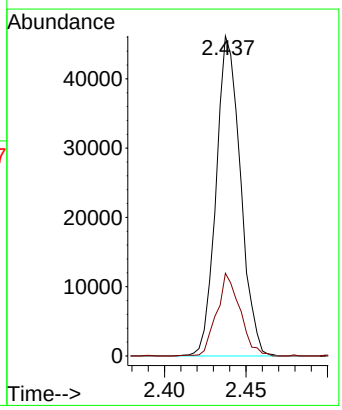


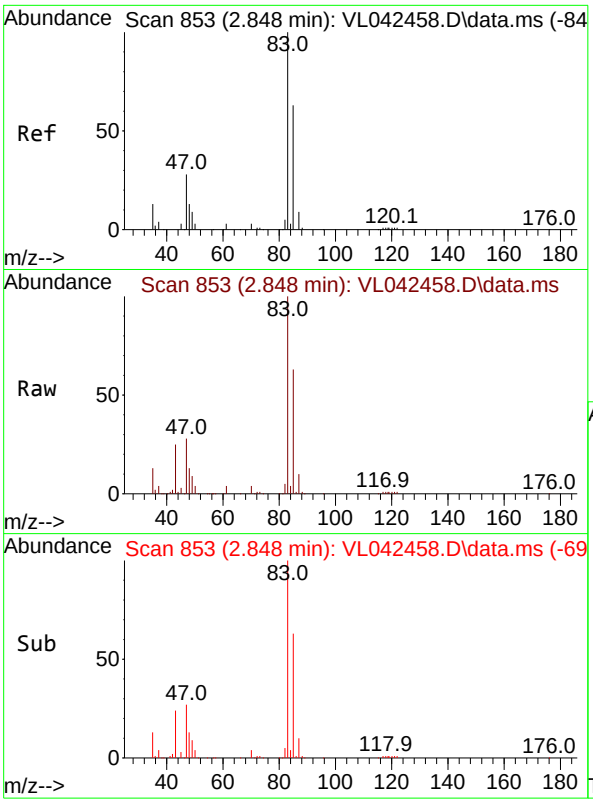


#28
Methyl tert-Butyl Ether
Concen: 8.777 ppbv
RT: 2.437 min Scan# 726
Delta R.T. 0.000 min
Lab File: VL042458.D
Acq: 01 May 2025 09:03

Tgt Ion: 73 Resp: 47941

Ion	Ratio	Lower	Upper
73	100		
57	25.0	19.9	29.9



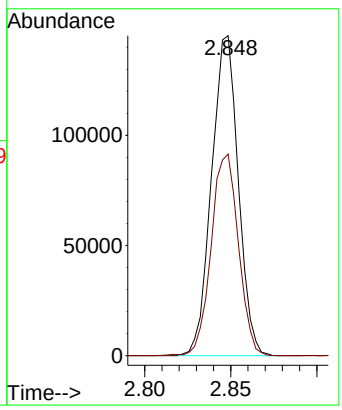


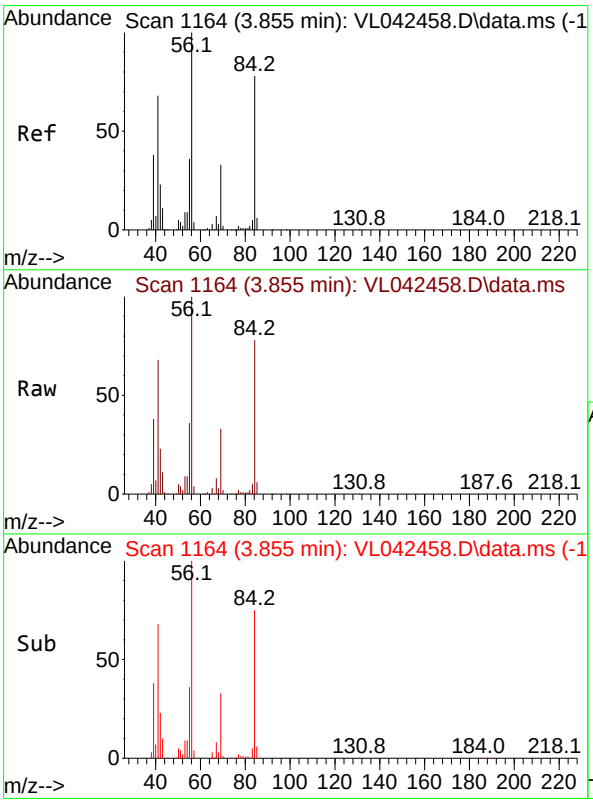
#29
Chloroform
Concen: 9.213 ppbv
RT: 2.848 min Scan# 8
Delta R.T. 0.000 min
Lab File: VL042458.D
Acq: 01 May 2025 09:03

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 83 Resp: 156976

Ion	Ratio	Lower	Upper
83	100		
85	63.0	50.4	75.6

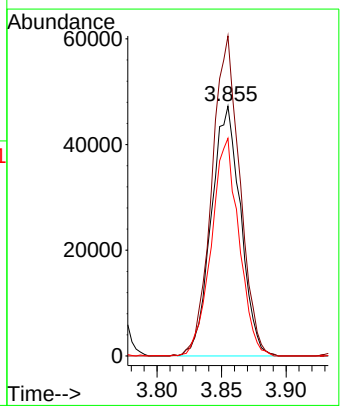


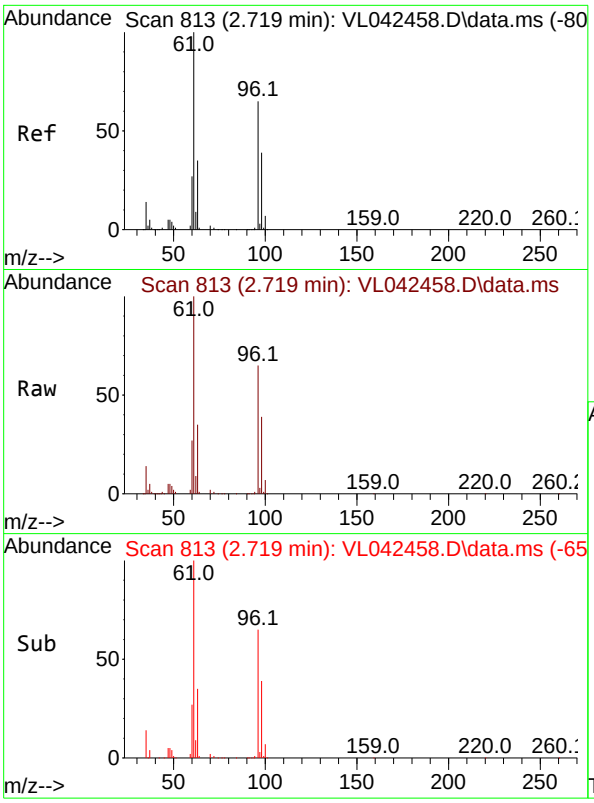


#30
Cyclohexane
Concen: 9.815 ppbv
RT: 3.855 min Scan# 1164
Delta R.T. 0.000 min
Lab File: VL042458.D
Acq: 01 May 2025 09:03

Tgt Ion: 84 Resp: 74614

Ion	Ratio	Lower	Upper
84	100		
56	122.6	98.1	147.1
41	82.3	65.8	98.8



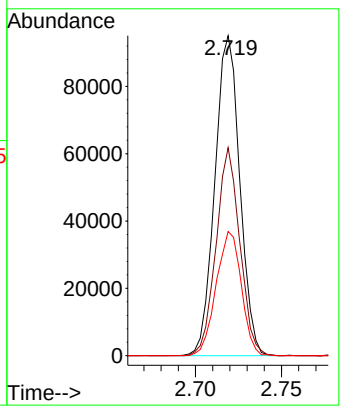


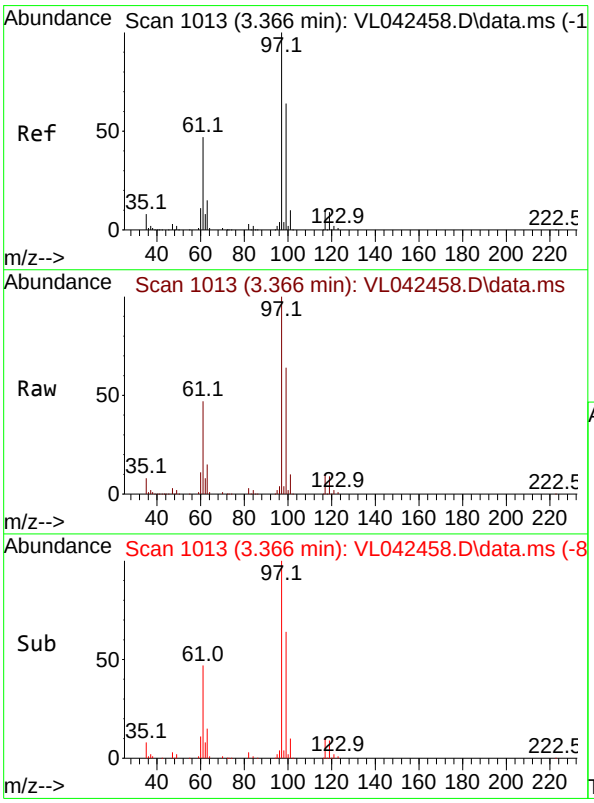
#31
cis-1,2-Dichloroethene
Concen: 9.031 ppbv
RT: 2.719 min Scan# 8
Delta R.T. 0.000 min
Lab File: VL042458.D
Acq: 01 May 2025 09:03

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 61 Resp: 95797

Ion	Ratio	Lower	Upper
61	100		
96	65.0	52.0	78.0
98	38.8	31.0	46.6

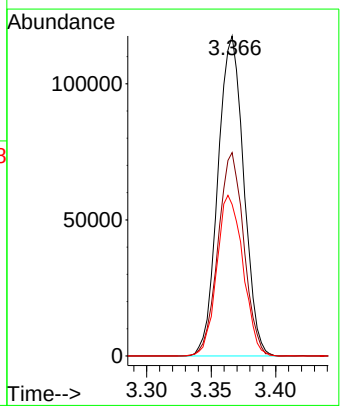


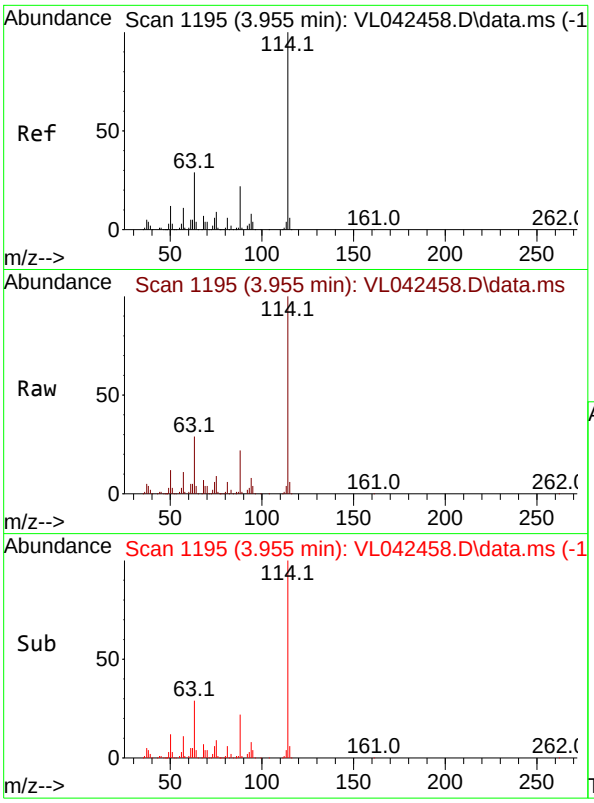


#32
1,1,1-Trichloroethane
Concen: 8.836 ppbv
RT: 3.366 min Scan# 1013
Delta R.T. 0.000 min
Lab File: VL042458.D
Acq: 01 May 2025 09:03

Tgt Ion: 97 Resp: 163334

Ion	Ratio	Lower	Upper
97	100		
99	63.4	50.7	76.1
61	51.1	40.9	61.3



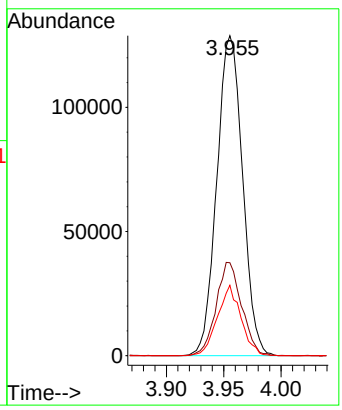


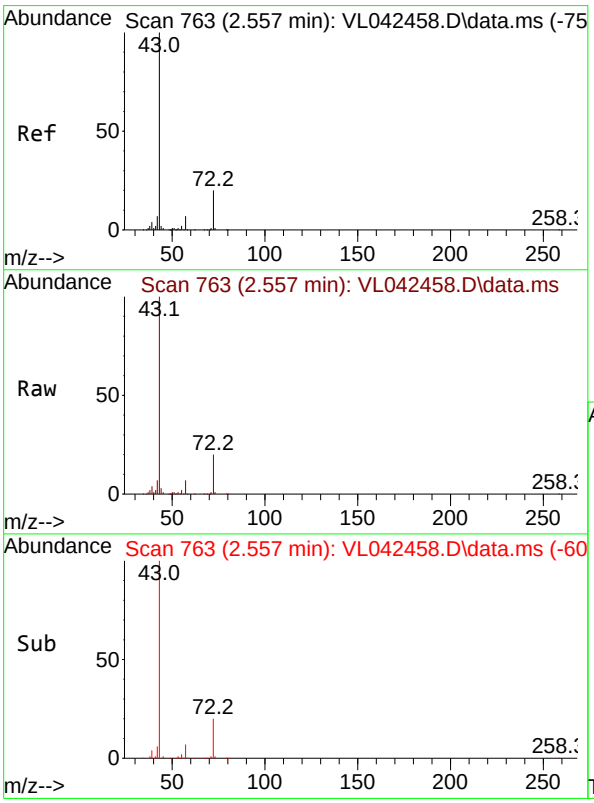
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.955 min Scan# 11
Delta R.T. 0.000 min
Lab File: VL042458.D
Acq: 01 May 2025 09:03

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion:114 Resp: 201290

Ion	Ratio	Lower	Upper
114	100		
63	28.9	23.1	34.7
88	20.1	16.1	24.1

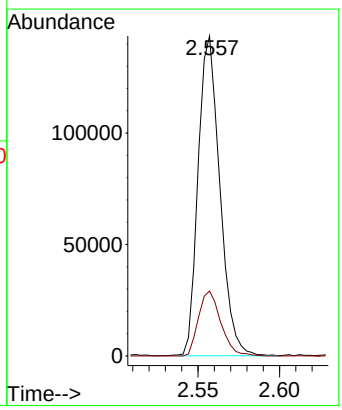


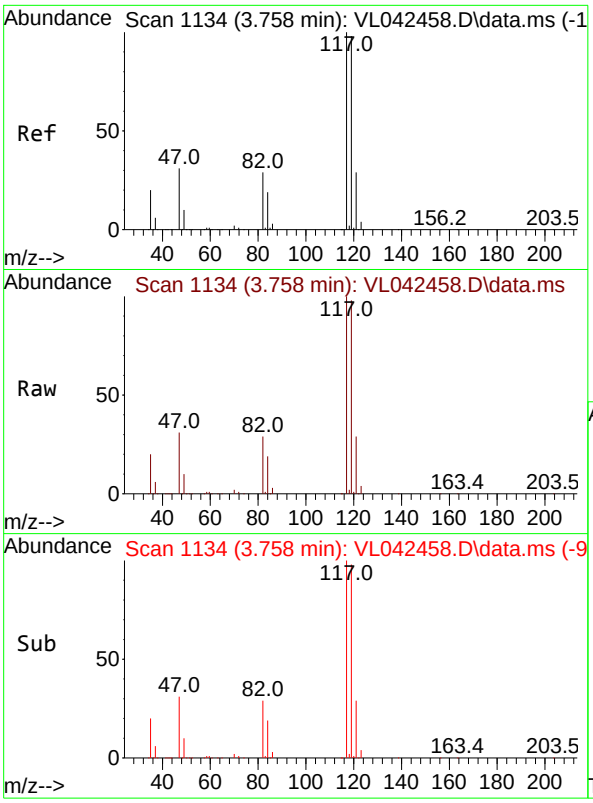


#34
2-Butanone
Concen: 9.113 ppbv
RT: 2.557 min Scan# 763
Delta R.T. 0.000 min
Lab File: VL042458.D
Acq: 01 May 2025 09:03

Tgt Ion: 43 Resp: 132685

Ion	Ratio	Lower	Upper
43	100		
72	20.9	16.7	25.1



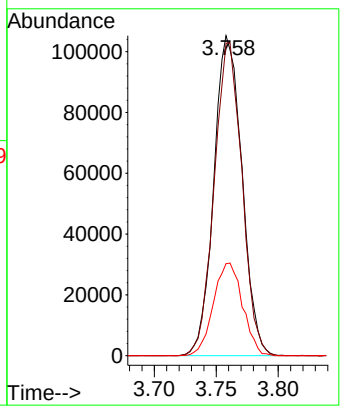


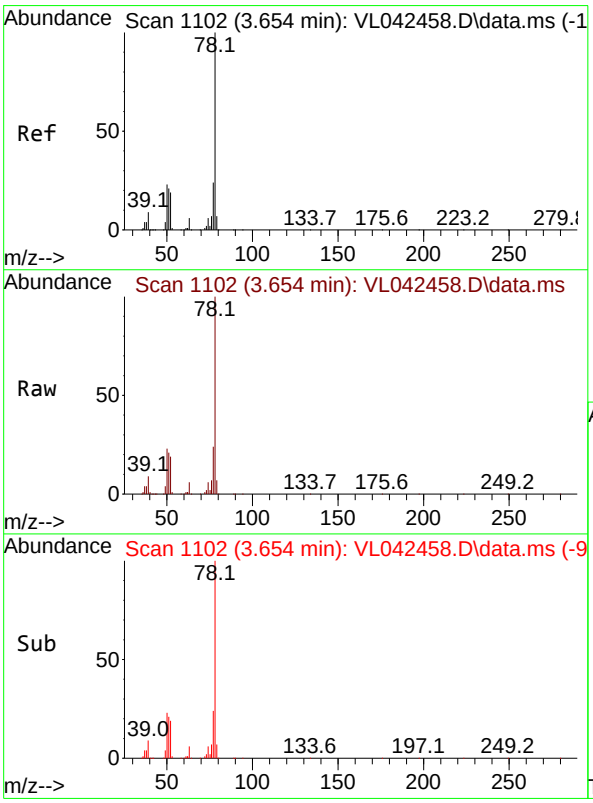
#35
Carbon Tetrachloride
Concen: 9.511 ppbv
RT: 3.758 min Scan# 11
Delta R.T. 0.000 min
Lab File: VL042458.D
Acq: 01 May 2025 09:03

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion:117 Resp: 166490

Ion	Ratio	Lower	Upper
117	100		
119	97.6	78.1	117.1
121	28.8	23.0	34.6

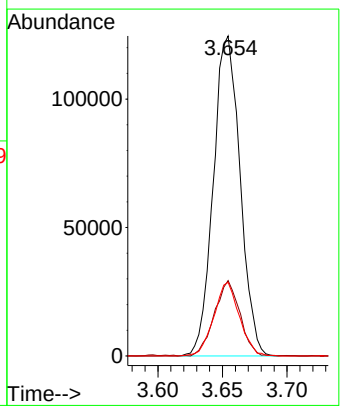


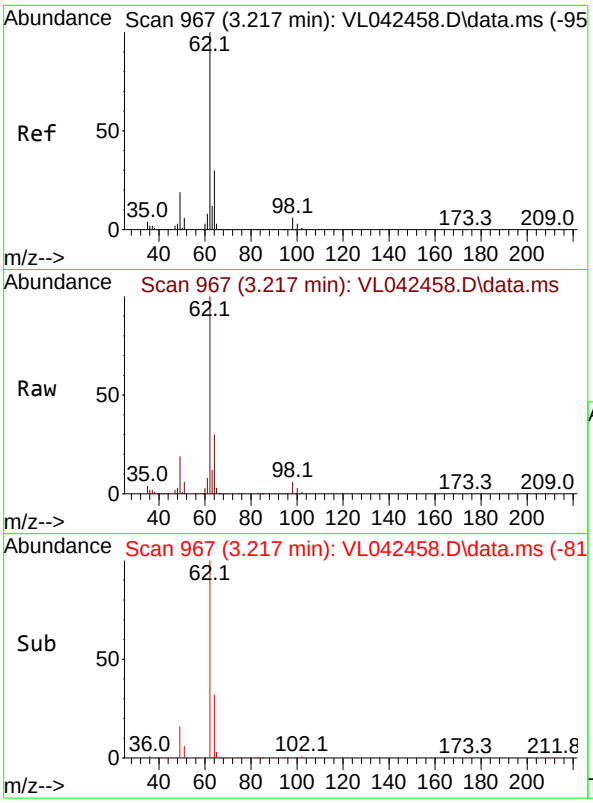


#36
Benzene
Concen: 9.451 ppbv
RT: 3.654 min Scan# 1102
Delta R.T. 0.000 min
Lab File: VL042458.D
Acq: 01 May 2025 09:03

Tgt Ion: 78 Resp: 179532

Ion	Ratio	Lower	Upper
78	100		
77	23.6	18.9	28.3
50	23.0	18.4	27.6



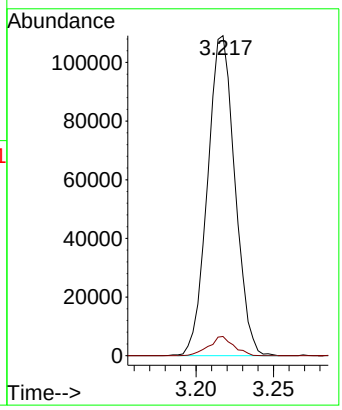


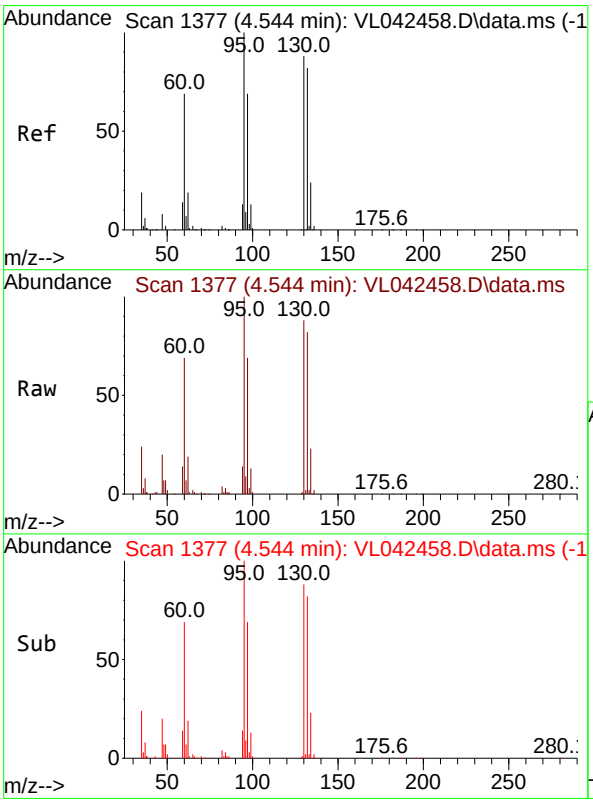
#37
1,2-Dichloroethane
Concen: 9.150 ppbv
RT: 3.217 min Scan# 9
Delta R.T. 0.000 min
Lab File: VL042458.D
Acq: 01 May 2025 09:03

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 62 Resp: 133963

Ion	Ratio	Lower	Upper
62	100		
98	5.4	4.3	6.5

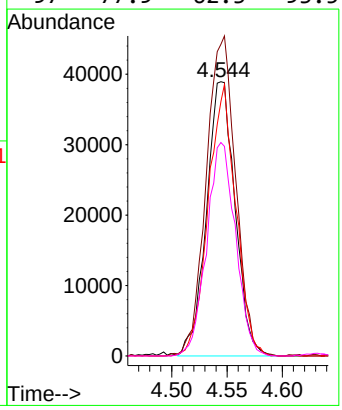


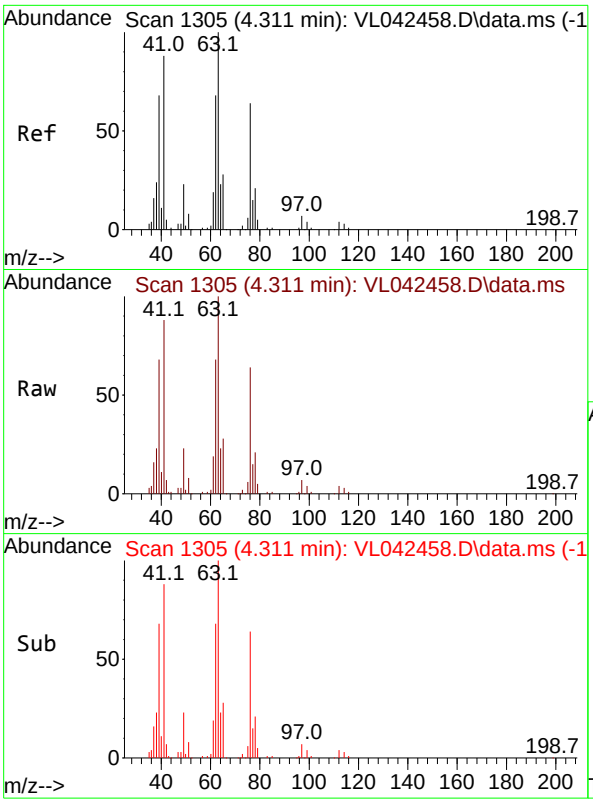


#38
Trichloroethene
Concen: 9.642 ppbv
RT: 4.544 min Scan# 1377
Delta R.T. 0.000 min
Lab File: VL042458.D
Acq: 01 May 2025 09:03

Tgt Ion:130 Resp: 69846

Ion	Ratio	Lower	Upper
130	100		
95	113.7	91.0	136.4
132	92.8	74.2	111.4
97	77.9	62.3	93.5



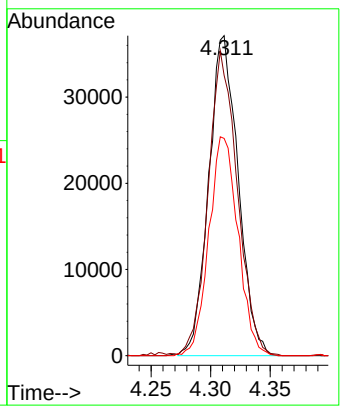


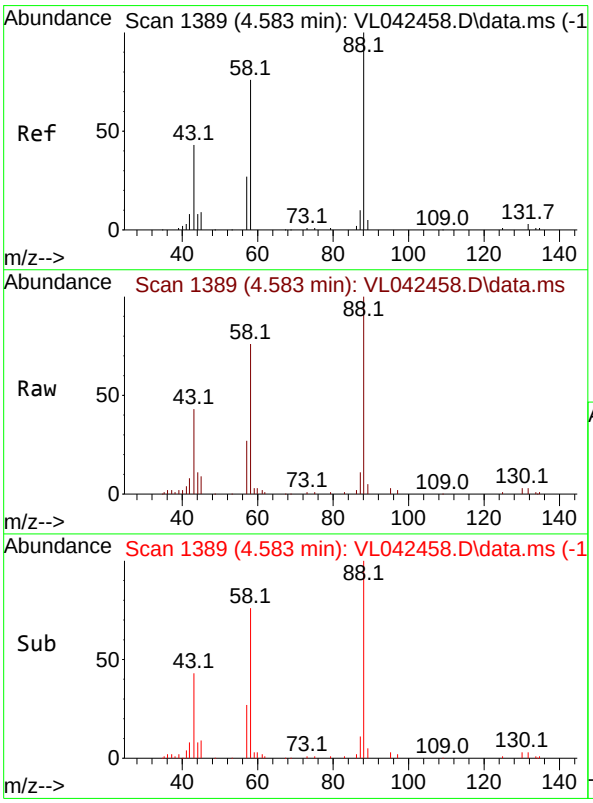
#39
1,2-Dichloropropane
Concen: 8.979 ppbv
RT: 4.311 min Scan# 1
Delta R.T. 0.000 min
Lab File: VL042458.D
Acq: 01 May 2025 09:03

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 63 Resp: 63894

Ion	Ratio	Lower	Upper
63	100		
41	87.2	69.8	104.6
62	67.9	54.3	81.5

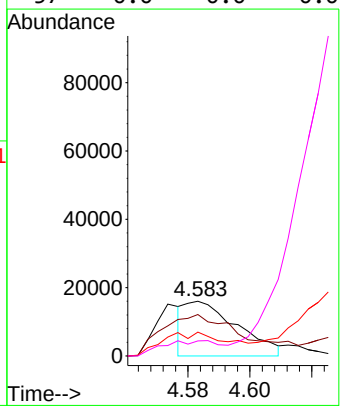


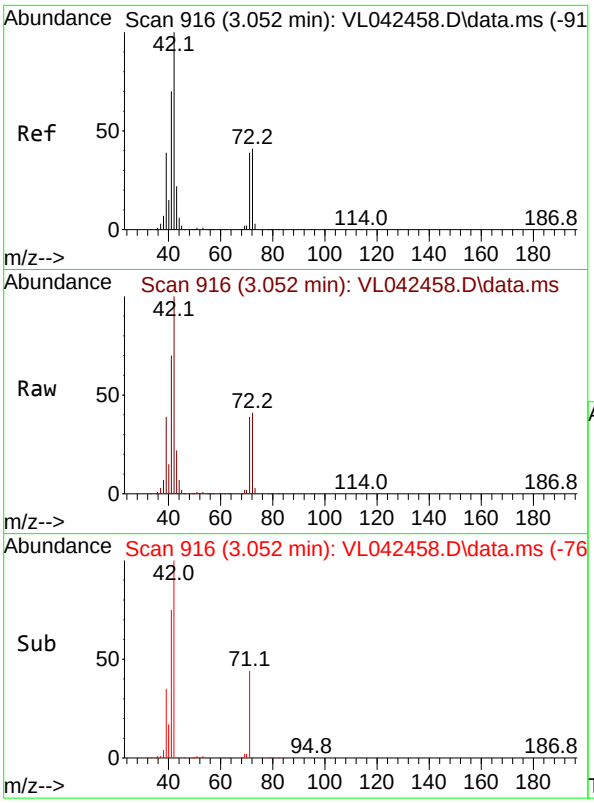


#40
1,4-Dioxane
Concen: 5.702 ppbv
RT: 4.583 min Scan# 1389
Delta R.T. 0.000 min
Lab File: VL042458.D
Acq: 01 May 2025 09:03

Tgt Ion: 88 Resp: 18861

Ion	Ratio	Lower	Upper
88	100		
58	122.5	0.0	0.0#
43	0.0	0.0	0.0
57	0.0	0.0	0.0



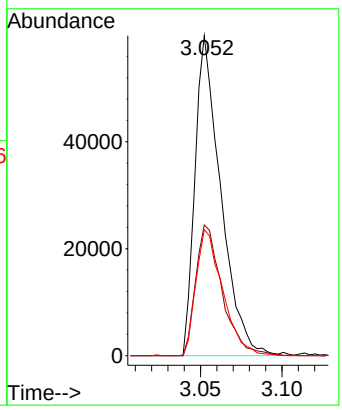


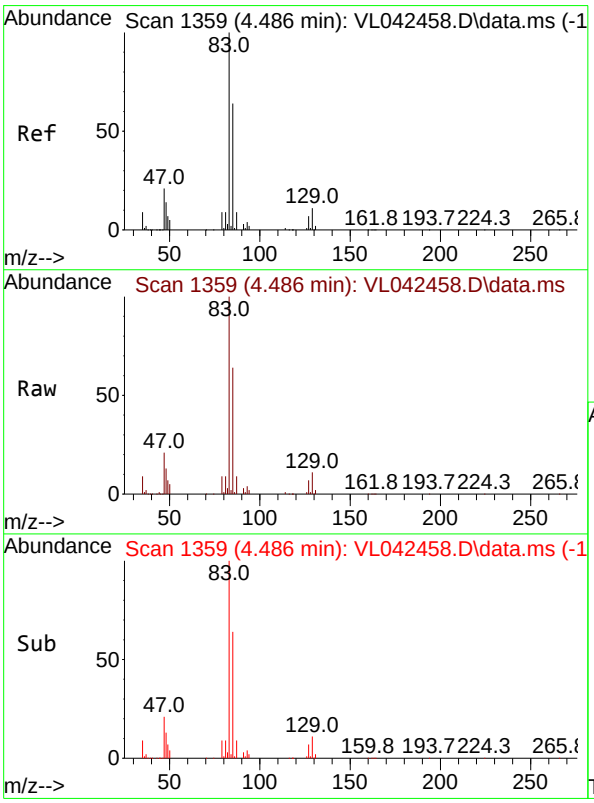
#41
Tetrahydrofuran
Concen: 9.516 ppbv
RT: 3.052 min Scan# 91
Delta R.T. 0.000 min
Lab File: VL042458.D
Acq: 01 May 2025 09:03

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 42 Resp: 65713

Ion	Ratio	Lower	Upper
42	100		
72	41.9	33.5	50.3
71	40.8	32.6	49.0

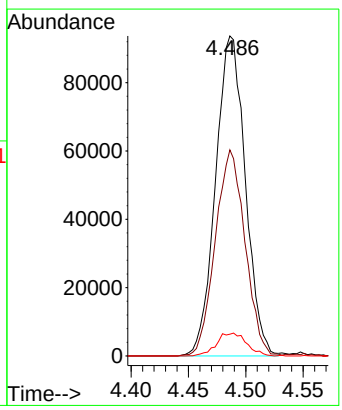


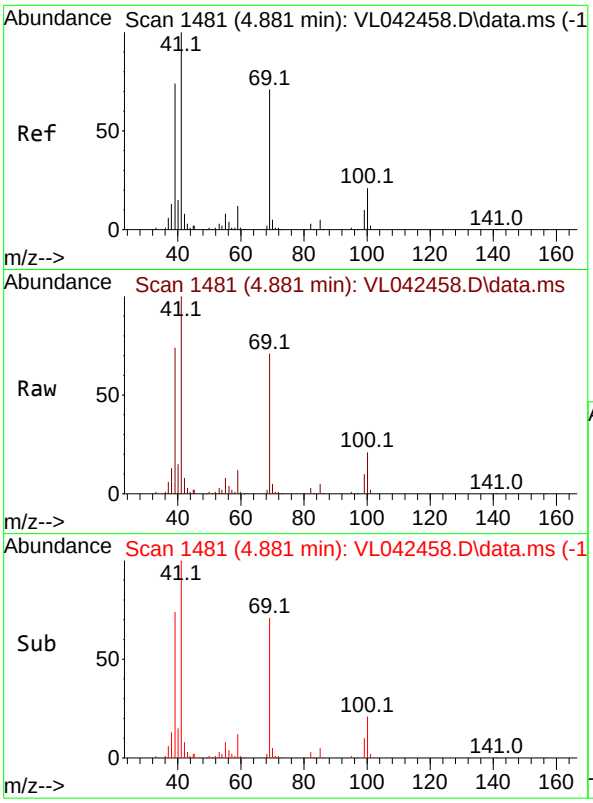


#42
Bromodichloromethane
Concen: 9.445 ppbv
RT: 4.486 min Scan# 1359
Delta R.T. 0.000 min
Lab File: VL042458.D
Acq: 01 May 2025 09:03

Tgt Ion: 83 Resp: 168957

Ion	Ratio	Lower	Upper
83	100		
85	64.4	51.5	77.3
127	6.8	5.4	8.2



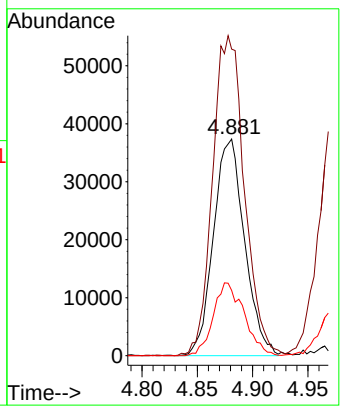


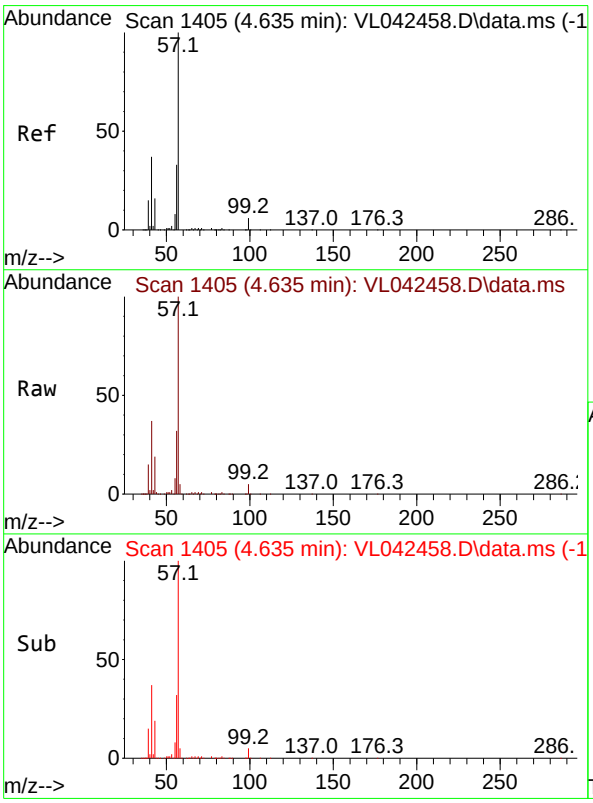
#43
Methyl Methacrylate
Concen: 10.339 ppbv
RT: 4.881 min Scan# 14
Delta R.T. 0.000 min
Lab File: VL042458.D
Acq: 01 May 2025 09:03

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 69 Resp: 73117

Ion	Ratio	Lower	Upper
69	100		
41	150.9	120.8	181.2
100	33.4	26.7	40.1

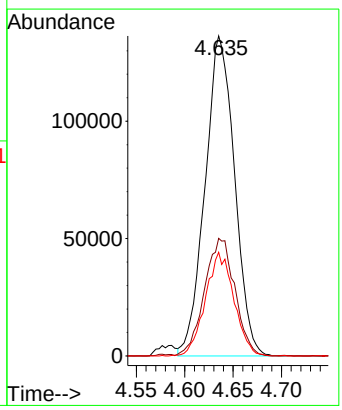


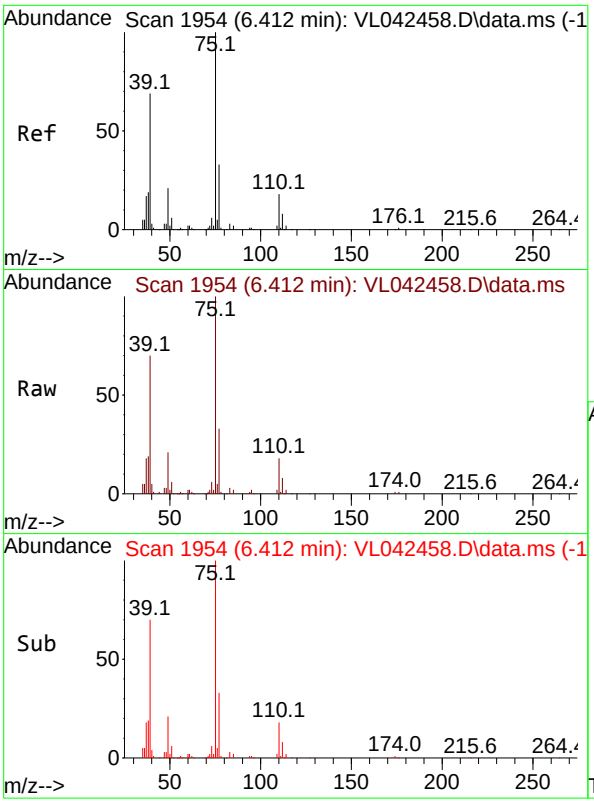


#44
2,2,4-Trimethylpentane
Concen: 9.420 ppbv
RT: 4.635 min Scan# 1405
Delta R.T. 0.000 min
Lab File: VL042458.D
Acq: 01 May 2025 09:03

Tgt Ion: 57 Resp: 289161

Ion	Ratio	Lower	Upper
57	100		
41	38.2	30.6	45.8
56	31.3	25.0	37.6



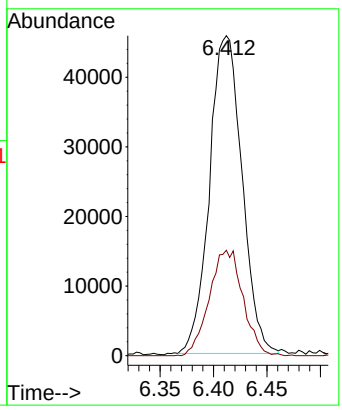


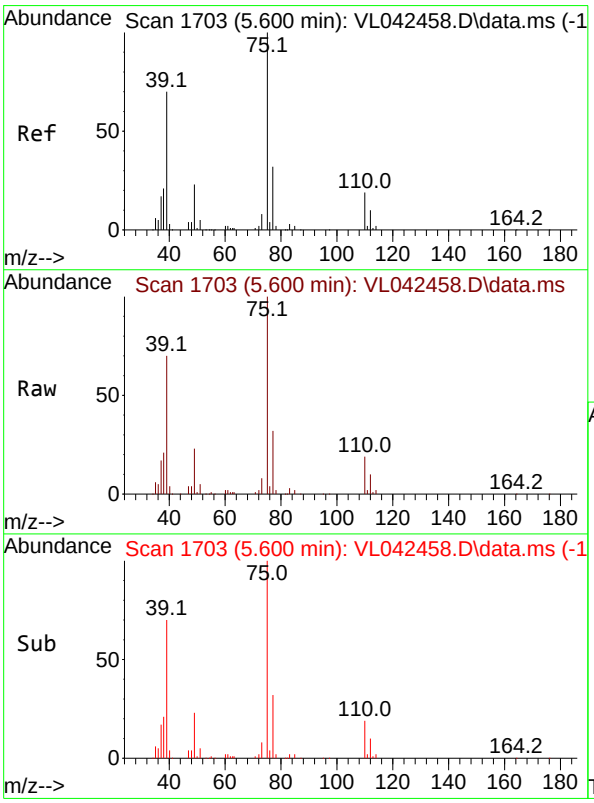
#45
t-1,3-Dichloropropene
Concen: 10.385 ppbv
RT: 6.412 min Scan# 1
Delta R.T. 0.000 min
Lab File: VL042458.D
Acq: 01 May 2025 09:03

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 75 Resp: 96692

Ion	Ratio	Lower	Upper
75	100		
77	32.9	26.3	39.5

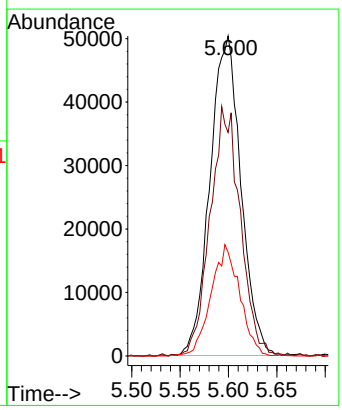


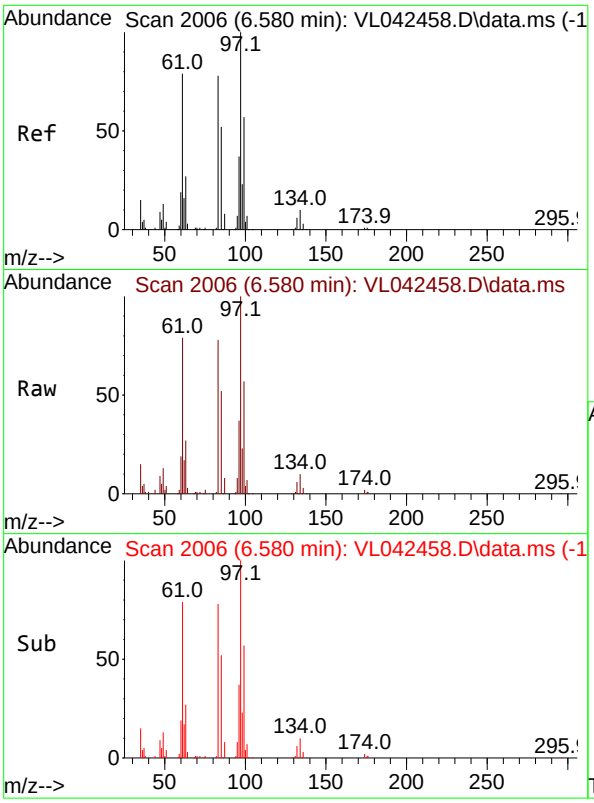


#46
cis-1,3-Dichloropropene
Concen: 10.111 ppbv
RT: 5.600 min Scan# 1703
Delta R.T. 0.000 min
Lab File: VL042458.D
Acq: 01 May 2025 09:03

Tgt Ion: 75 Resp: 111768

Ion	Ratio	Lower	Upper
75	100		
39	69.6	55.7	83.5
77	32.3	25.8	38.8



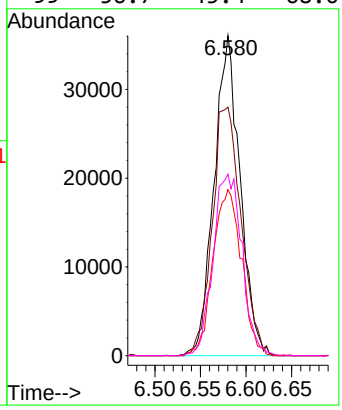


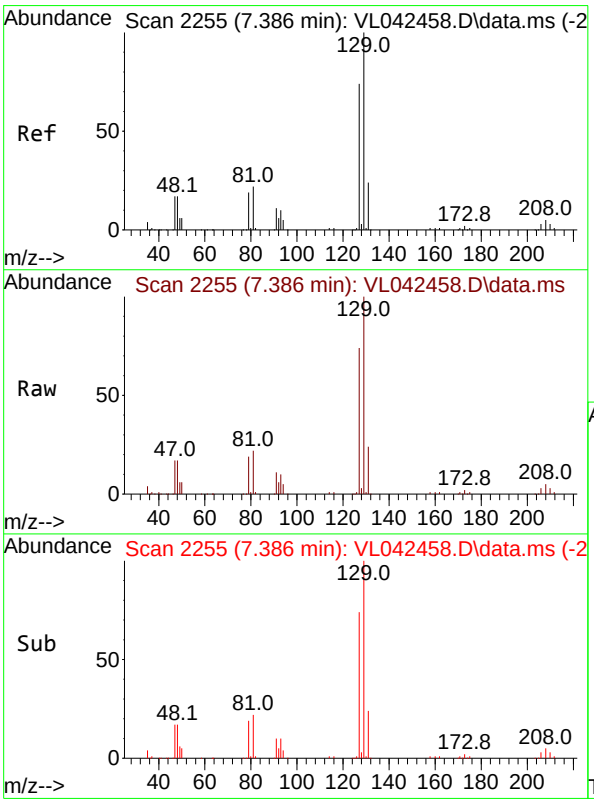
#47
1,1,2-Trichloroethane
Concen: 9.207 ppbv
RT: 6.580 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042458.D
Acq: 01 May 2025 09:03

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 97 Resp: 71805

Ion	Ratio	Lower	Upper
97	100		
83	77.7	62.2	93.2
85	51.9	41.5	62.3
99	56.7	45.4	68.0

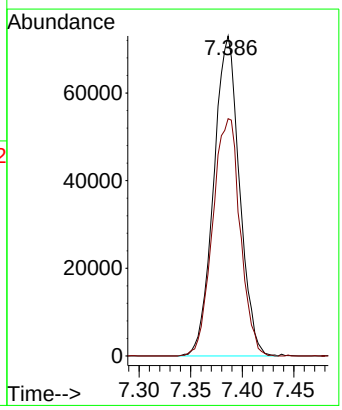


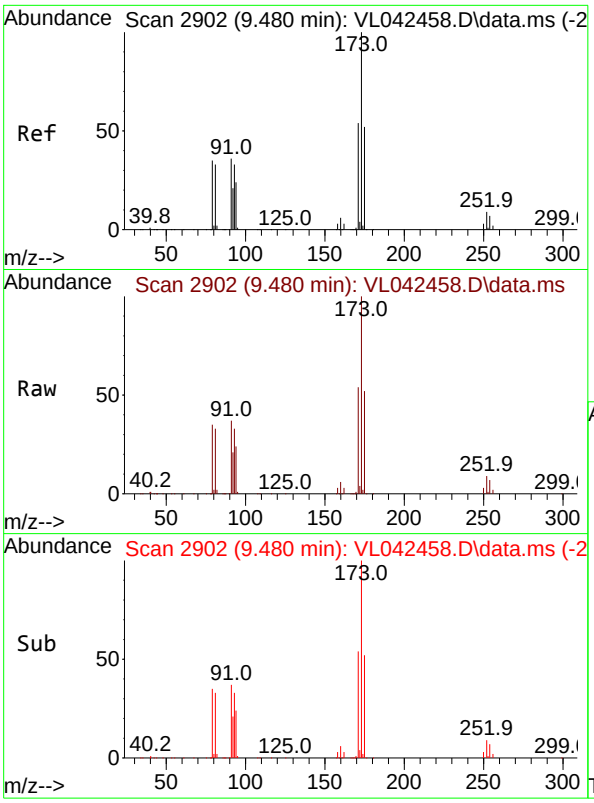


#48
Dibromochloromethane
Concen: 9.628 ppbv
RT: 7.386 min Scan# 2255
Delta R.T. 0.000 min
Lab File: VL042458.D
Acq: 01 May 2025 09:03

Tgt Ion:129 Resp: 126754

Ion	Ratio	Lower	Upper
129	100		
127	79.0	39.5	118.5



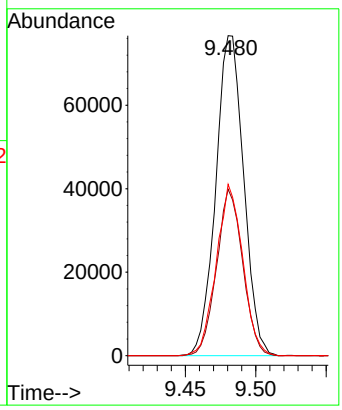


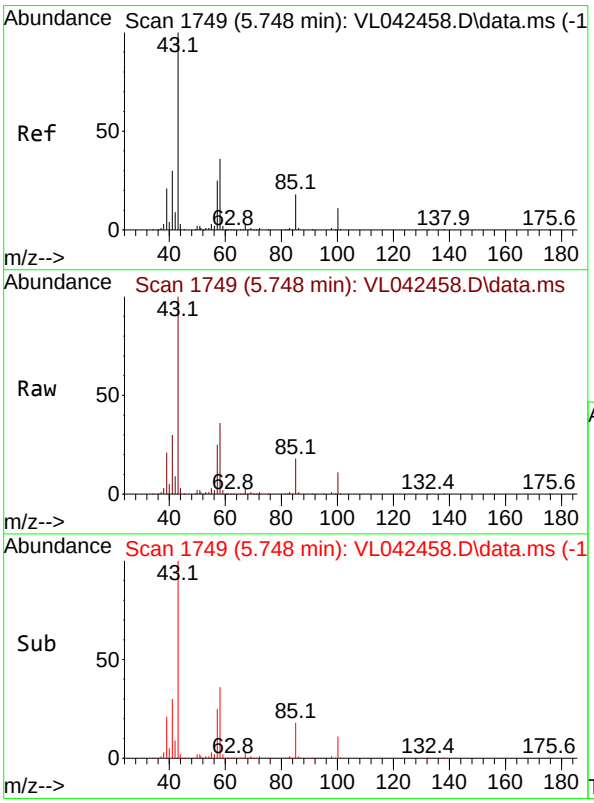
#49
Bromoform
Concen: 9.610 ppbv
RT: 9.480 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042458.D
Acq: 01 May 2025 09:03

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion:173 Resp: 106108

Ion	Ratio	Lower	Upper
173	100		
175	48.6	38.9	58.3
171	50.7	40.6	60.8

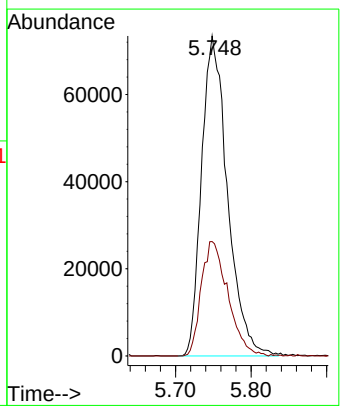


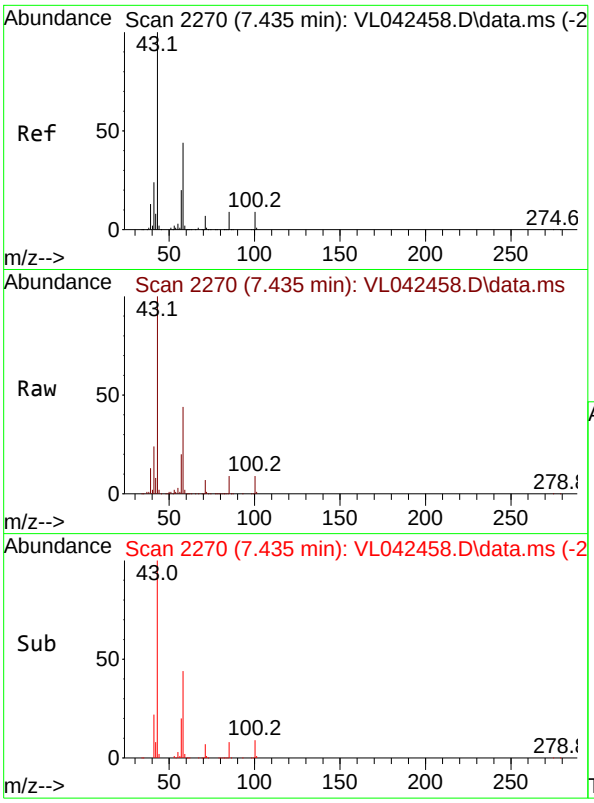


#50
4-Methyl-2-Pentanone
Concen: 9.518 ppbv
RT: 5.748 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VL042458.D
Acq: 01 May 2025 09:03

Tgt Ion: 43 Resp: 175193

Ion	Ratio	Lower	Upper
43	100		
58	36.9	29.5	44.3



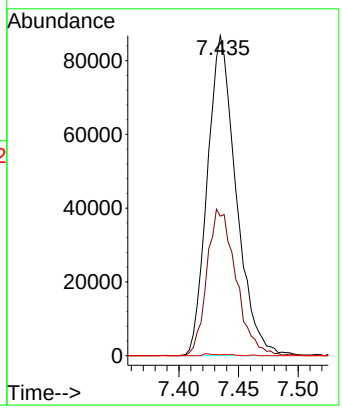


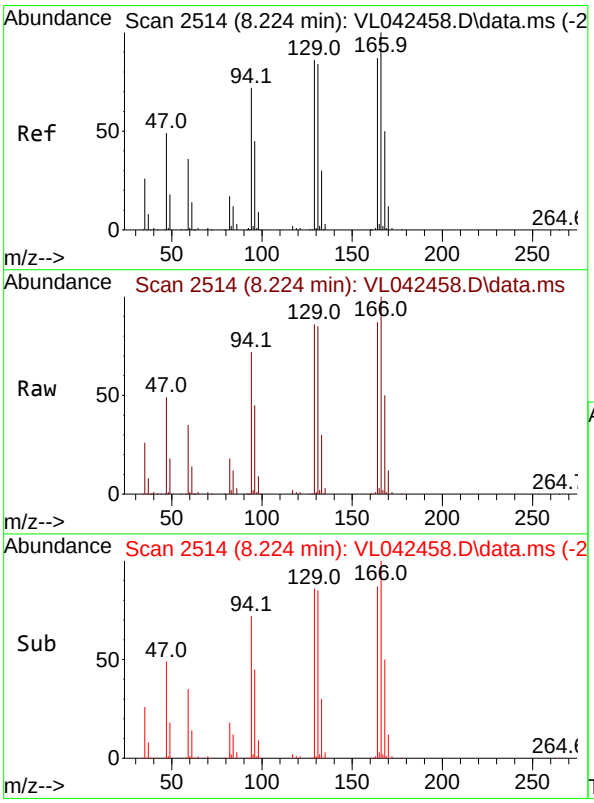
#51
2-Hexanone
Concen: 9.855 ppbv
RT: 7.435 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042458.D
Acq: 01 May 2025 09:03

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 43 Resp: 145272

Ion	Ratio	Lower	Upper
43	100		
58	46.5	37.2	55.8
98	0.5	0.4	0.6

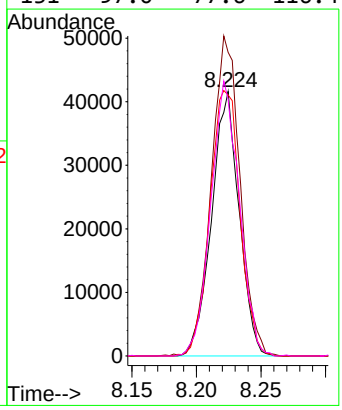


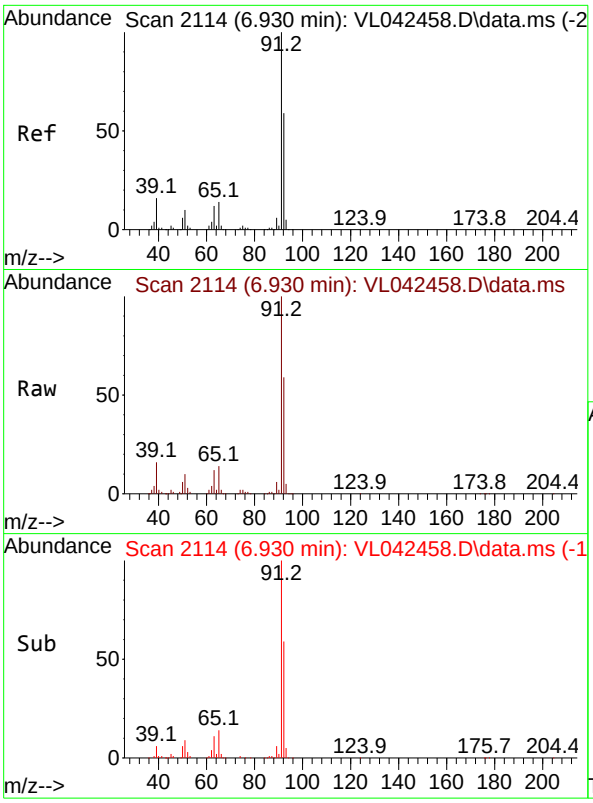


#52
Tetrachloroethene
Concen: 8.500 ppbv
RT: 8.224 min Scan# 2514
Delta R.T. 0.000 min
Lab File: VL042458.D
Acq: 01 May 2025 09:03

Tgt Ion:164 Resp: 61456

Ion	Ratio	Lower	Upper
164	100		
166	114.5	91.6	137.4
129	98.7	79.0	118.4
131	97.0	77.6	116.4



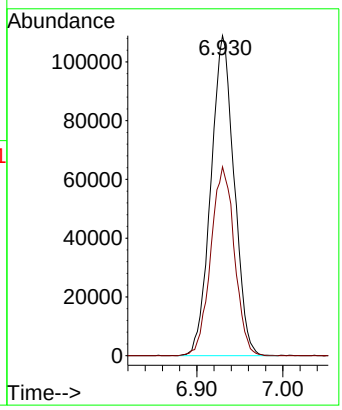


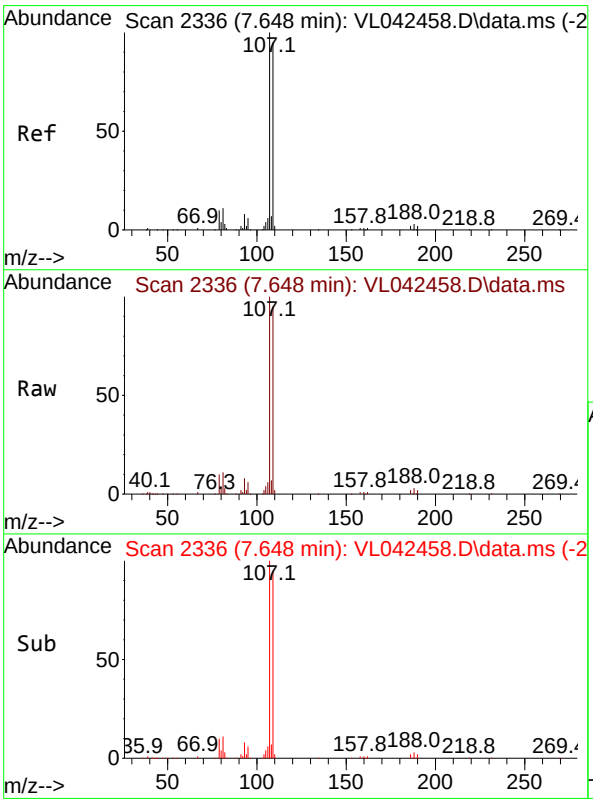
#53
Toluene
Concen: 10.171 ppbv
RT: 6.930 min Scan# 21
Delta R.T. 0.000 min
Lab File: VL042458.D
Acq: 01 May 2025 09:03

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 91 Resp: 204494

Ion	Ratio	Lower	Upper
91	100		
92	59.9	47.9	71.9

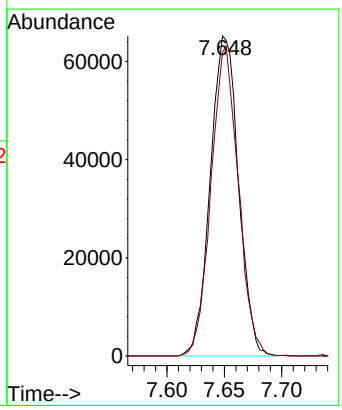


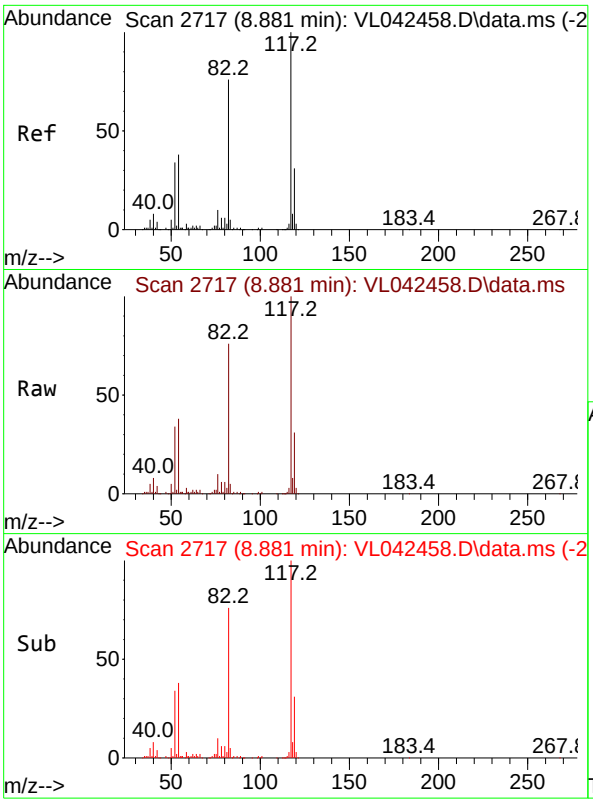


#54
1,2-Dibromoethane
Concen: 9.300 ppbv
RT: 7.648 min Scan# 2336
Delta R.T. 0.000 min
Lab File: VL042458.D
Acq: 01 May 2025 09:03

Tgt Ion:107 Resp: 111506

Ion	Ratio	Lower	Upper
107	100		
109	95.0	76.0	114.0



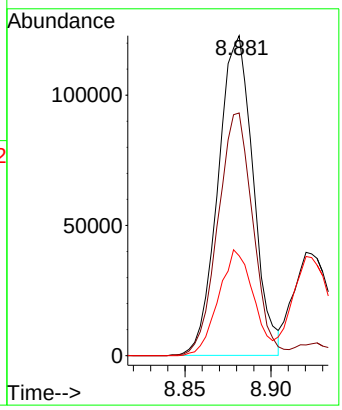


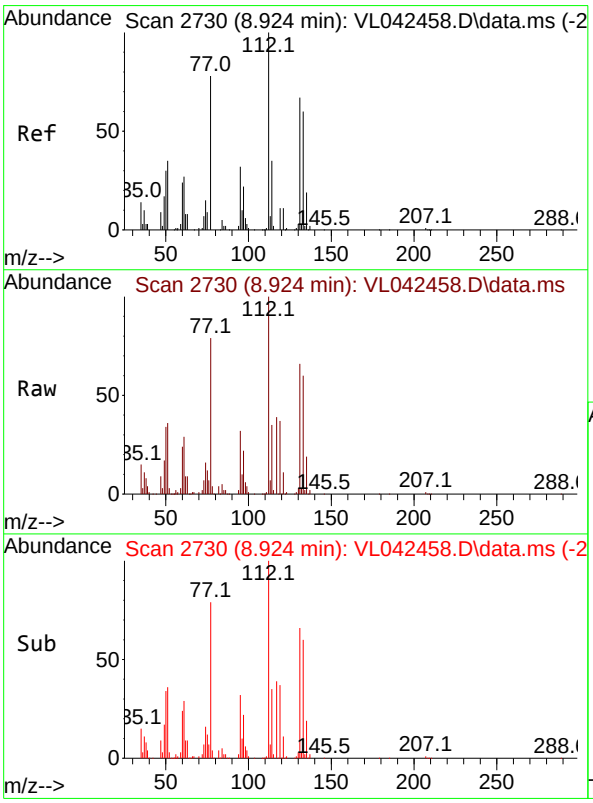
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.881 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042458.D
Acq: 01 May 2025 09:03

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion:117 Resp: 174168

Ion	Ratio	Lower	Upper
117	100		
82	79.4	63.5	95.3
119	32.3	25.8	38.8

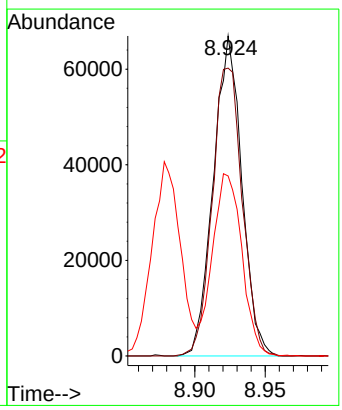


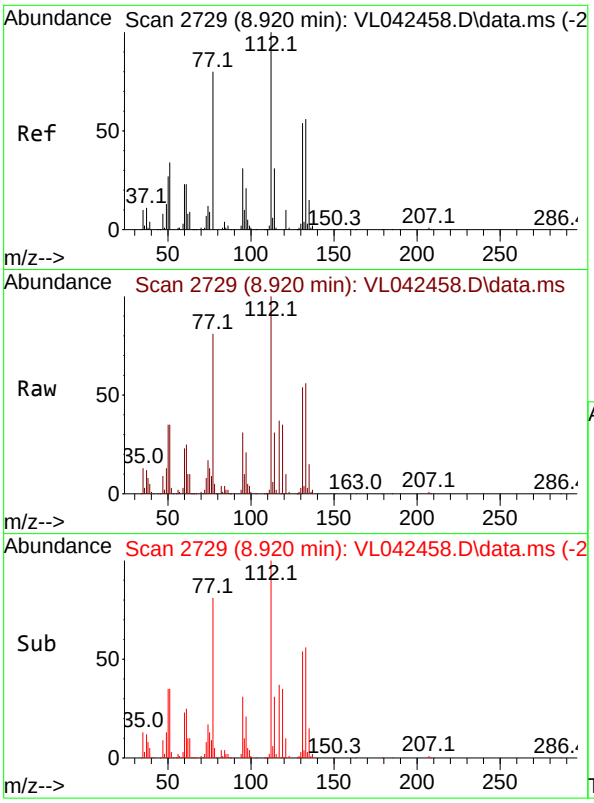


#56
1,1,1,2-Tetrachloroethane
Concen: 9.172 ppbv
RT: 8.924 min Scan# 2730
Delta R.T. 0.000 min
Lab File: VL042458.D
Acq: 01 May 2025 09:03

Tgt Ion:131 Resp: 94346

Ion	Ratio	Lower	Upper
131	100		
133	95.0	76.0	114.0
119	59.1	46.1	69.1



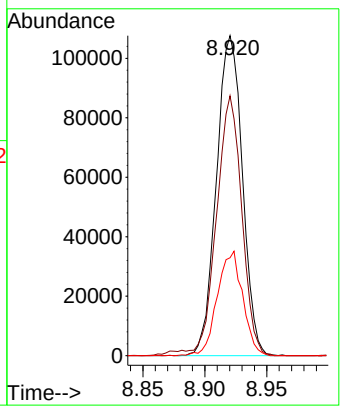


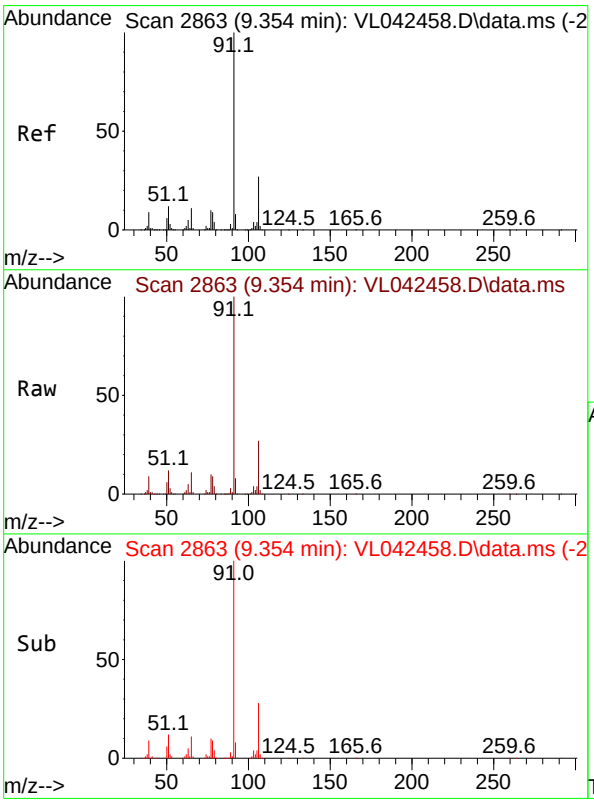
#57
Chlorobenzene
Concen: 8.994 ppbv
RT: 8.920 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042458.D
Acq: 01 May 2025 09:03

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion:112 Resp: 157401

Ion	Ratio	Lower	Upper
112	100		
77	81.2	65.0	97.4
114	30.6	27.5	33.7

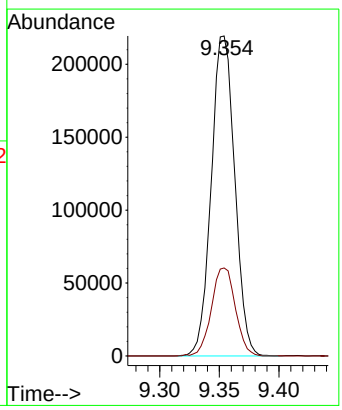


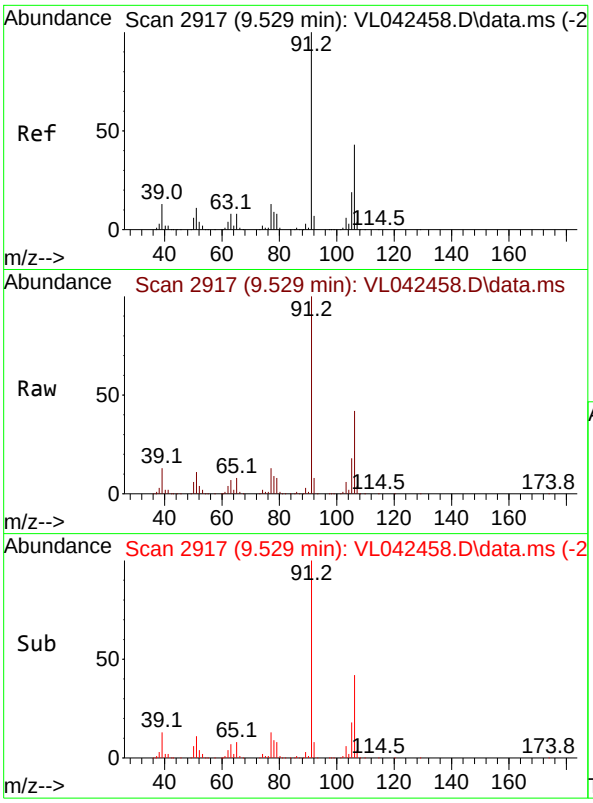


#58
Ethyl Benzene
Concen: 10.321 ppbv
RT: 9.354 min Scan# 2863
Delta R.T. 0.000 min
Lab File: VL042458.D
Acq: 01 May 2025 09:03

Tgt Ion: 91 Resp: 300412

Ion	Ratio	Lower	Upper
91	100		
106	27.4	21.9	32.9



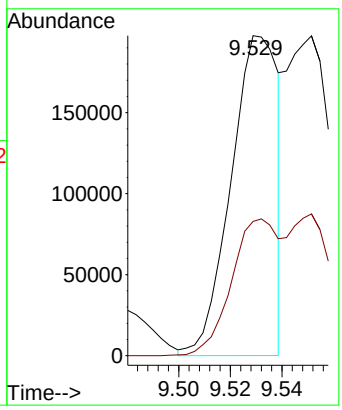


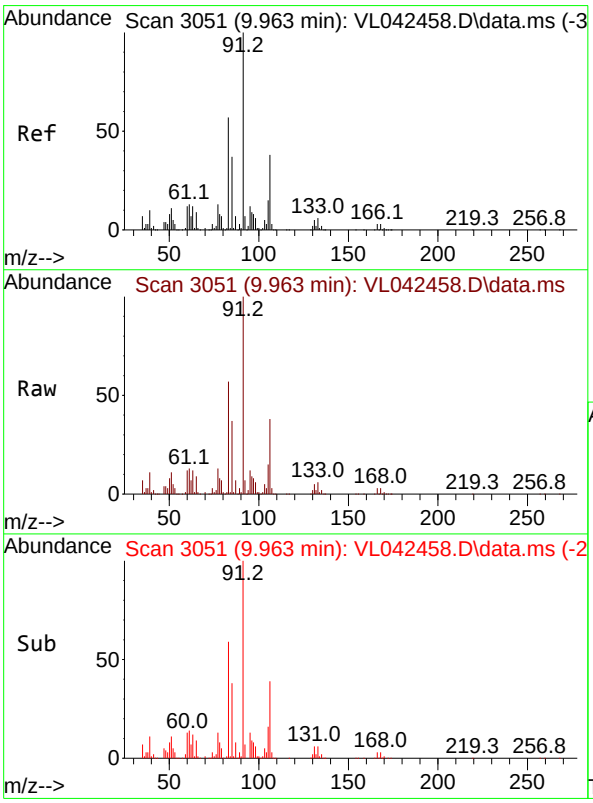
#59
m/p-Xylene
Concen: 10.187 ppbv
RT: 9.529 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042458.D
Acq: 01 May 2025 09:03

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 91 Resp: 248589

Ion	Ratio	Lower	Upper
91	100		
106	0.0	34.2	51.2#

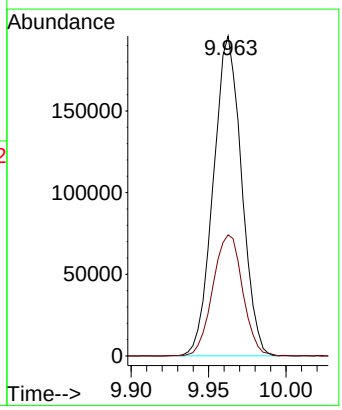


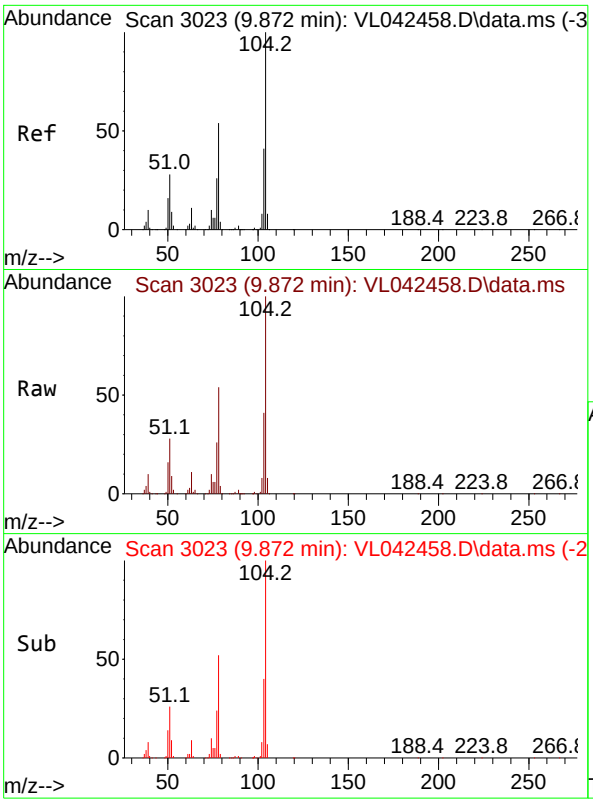


#60
o-Xylene
Concen: 10.157 ppbv
RT: 9.963 min Scan# 3051
Delta R.T. 0.000 min
Lab File: VL042458.D
Acq: 01 May 2025 09:03

Tgt Ion: 91 Resp: 247784

Ion	Ratio	Lower	Upper
91	100		
106	40.1	20.1	60.2



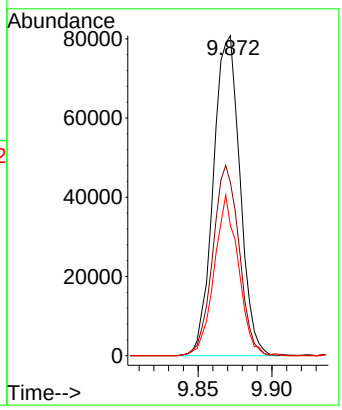


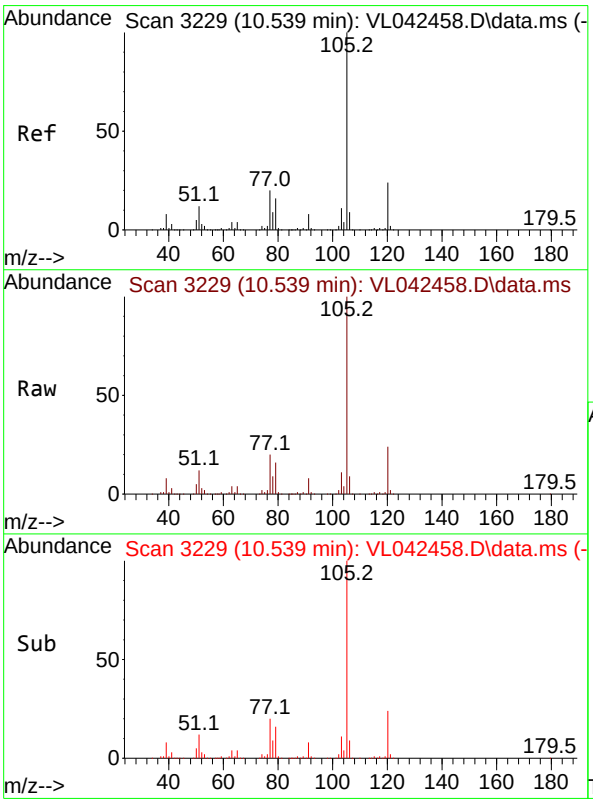
#61
Styrene
Concen: 11.134 ppbv
RT: 9.872 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042458.D
Acq: 01 May 2025 09:03

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion:104 Resp: 101509

Ion	Ratio	Lower	Upper
104	100		
78	58.6	46.9	70.3
103	45.8	36.6	55.0

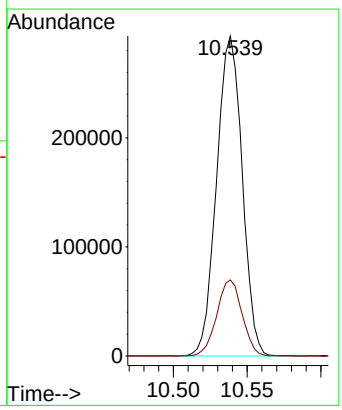


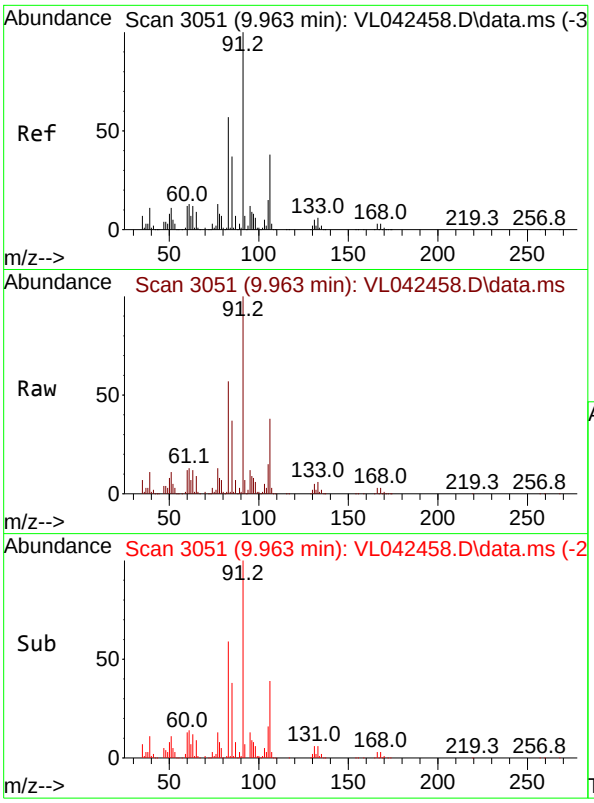


#62
Isopropylbenzene
Concen: 10.047 ppbv
RT: 10.539 min Scan# 3229
Delta R.T. 0.000 min
Lab File: VL042458.D
Acq: 01 May 2025 09:03

Tgt Ion:105 Resp: 354055

Ion	Ratio	Lower	Upper
105	100		
120	23.5	18.8	28.2



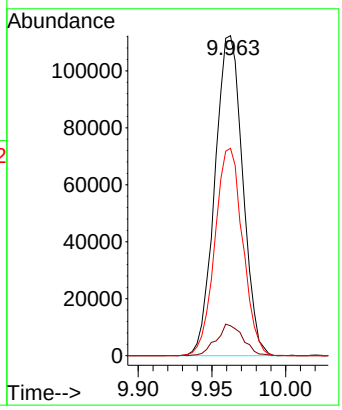


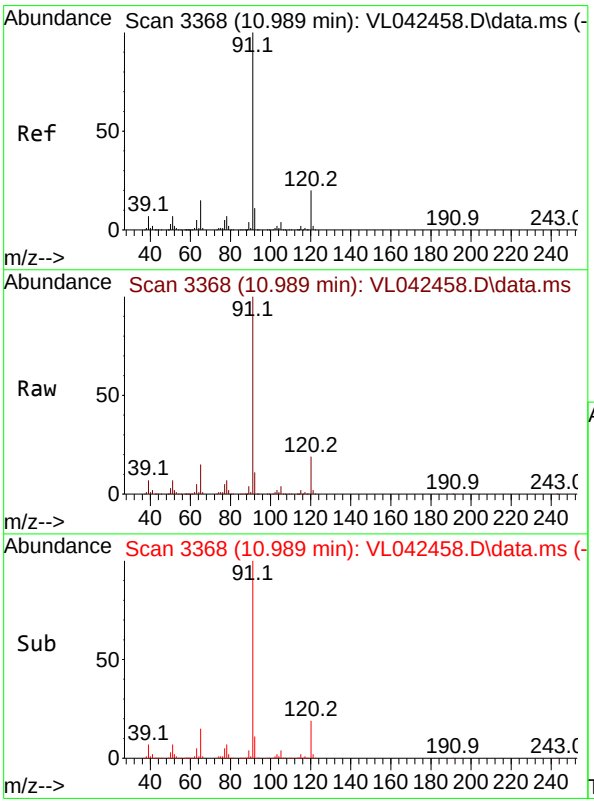
#63
1,1,2,2-Tetrachloroethane
Concen: 9.305 ppbv
RT: 9.963 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042458.D
Acq: 01 May 2025 09:03

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 83 Resp: 147295

Ion	Ratio	Lower	Upper
83	100		
131	9.4	4.7	14.1
85	64.9	32.5	97.4

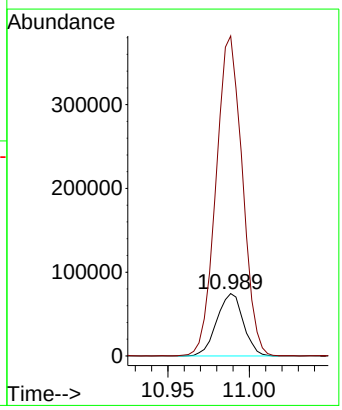


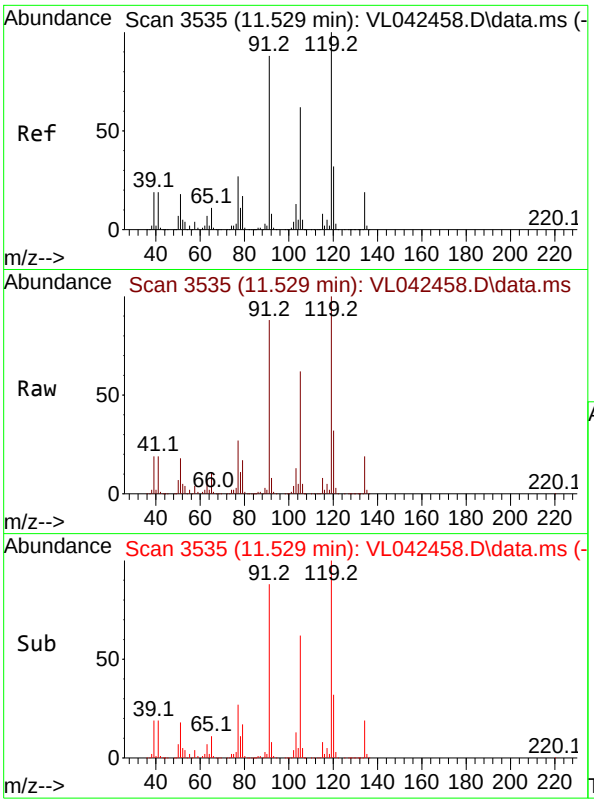


#64
n-propylbenzene
Concen: 9.787 ppbv
RT: 10.989 min Scan# 3368
Delta R.T. 0.000 min
Lab File: VL042458.D
Acq: 01 May 2025 09:03

Tgt Ion:120 Resp: 84006

Ion	Ratio	Lower	Upper
120	100		
91	510.7	408.6	612.8



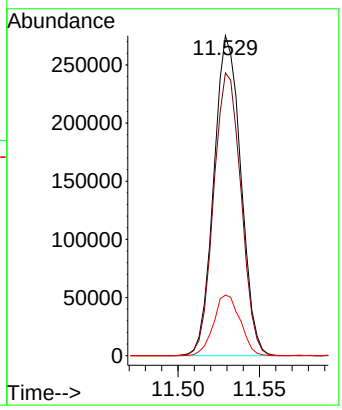


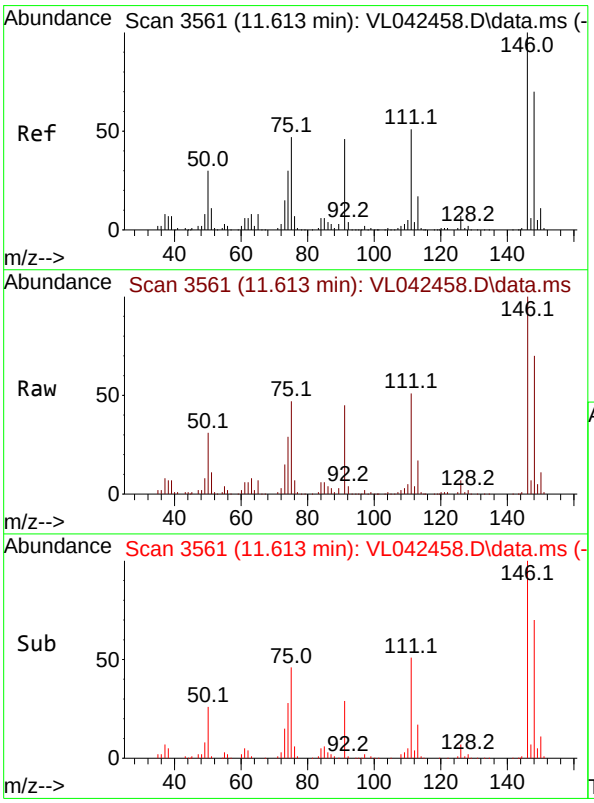
#65
tert-Butylbenzene
Concen: 10.065 ppbv
RT: 11.529 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042458.D
Acq: 01 May 2025 09:03

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion:119 Resp: 316532

Ion	Ratio	Lower	Upper
119	100		
91	89.5	71.6	107.4
134	18.7	15.0	22.4

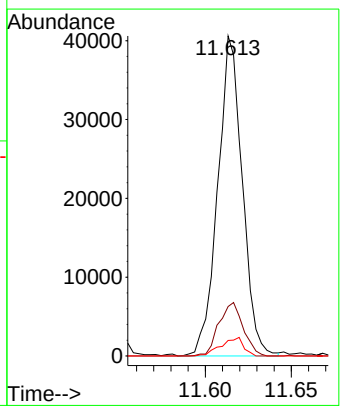


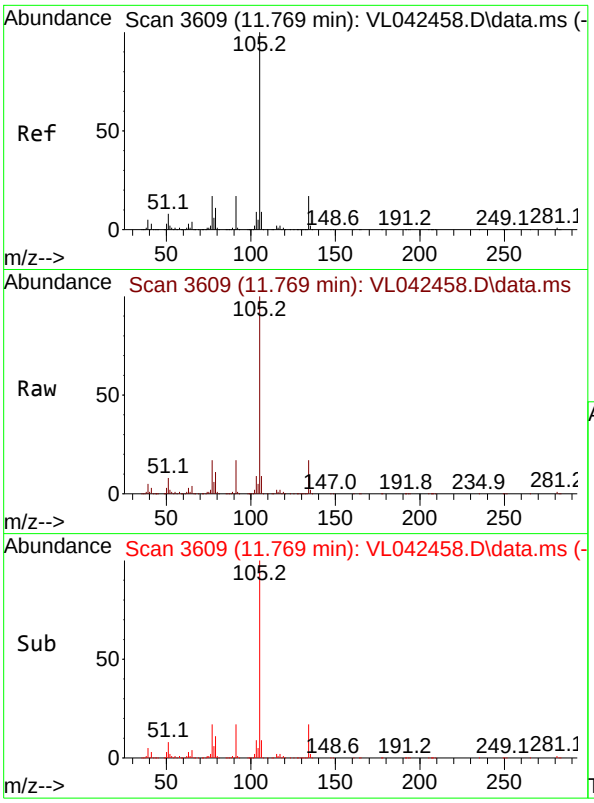


#66
Benzyl Chloride
Concen: 11.096 ppbv
RT: 11.613 min Scan# 3561
Delta R.T. 0.000 min
Lab File: VL042458.D
Acq: 01 May 2025 09:03

Tgt Ion: 91 Resp: 40331

Ion	Ratio	Lower	Upper
91	100		
126	16.5	13.3	19.9
128	5.3	4.2	6.4



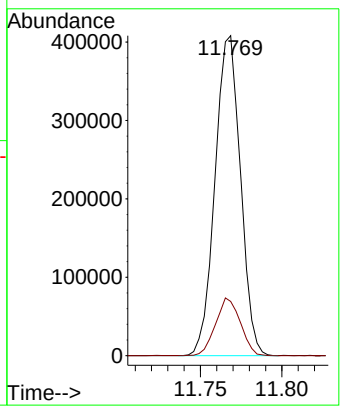


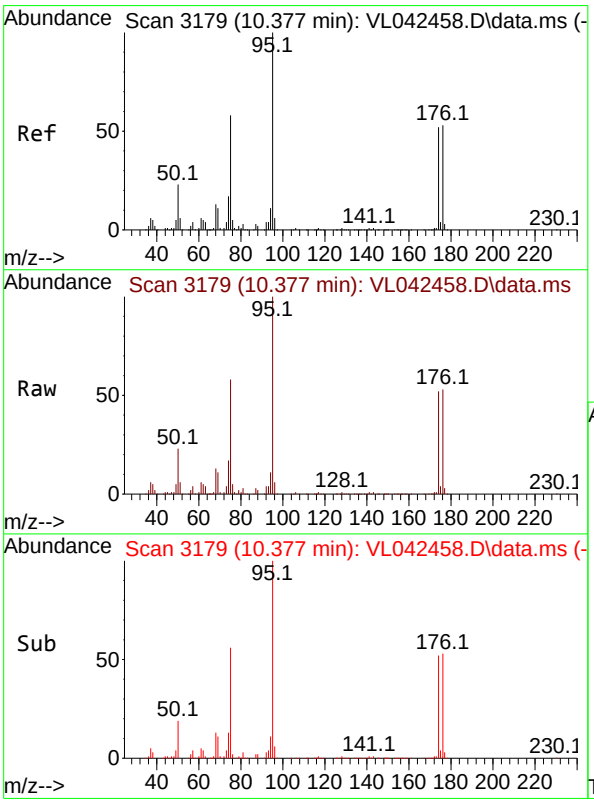
#67
sec-Butylbenzene
Concen: 9.903 ppbv
RT: 11.769 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042458.D
Acq: 01 May 2025 09:03

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion:105 Resp: 442600

Ion	Ratio	Lower	Upper
105	100		
134	17.6	14.1	21.1

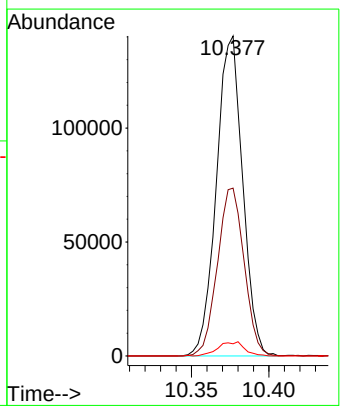


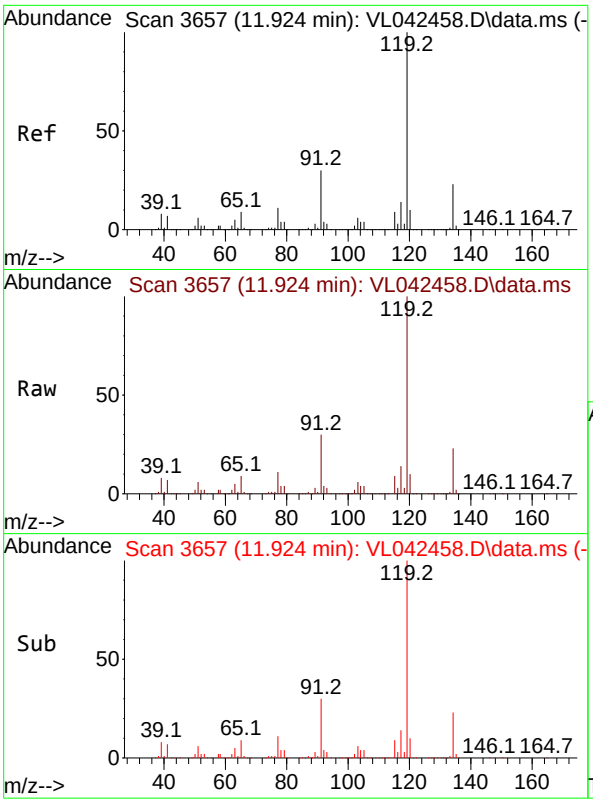


#68
1-Bromo-4-Fluorobenzene
Concen: 10.258 ppbv
RT: 10.377 min Scan# 3179
Delta R.T. 0.000 min
Lab File: VL042458.D
Acq: 01 May 2025 09:03

Tgt Ion: 95 Resp: 165650

Ion	Ratio	Lower	Upper
95	100		
174	53.4	42.7	64.1
175	4.5	3.6	5.4



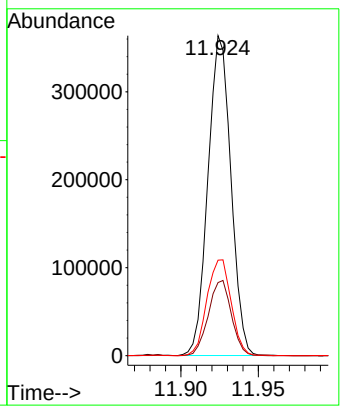


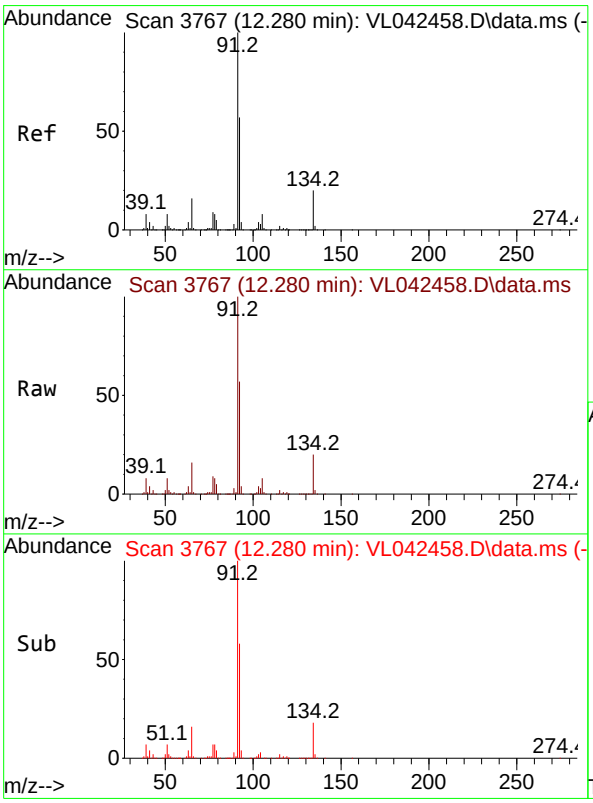
#69
p-Isopropyltoluene
Concen: 9.947 ppbv
RT: 11.924 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042458.D
Acq: 01 May 2025 09:03

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion:119 Resp: 374540

Ion	Ratio	Lower	Upper
119	100		
134	23.7	19.0	28.4
91	31.9	25.5	38.3

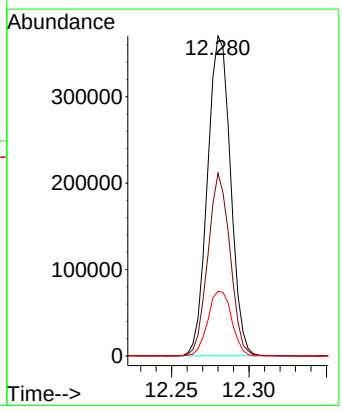


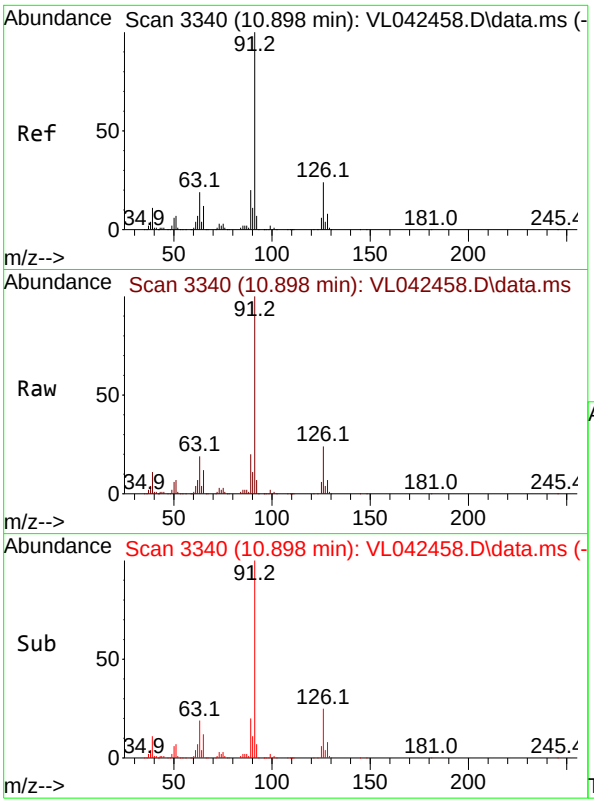


#70
n-Butylbenzene
Concen: 9.836 ppbv
RT: 12.280 min Scan# 3767
Delta R.T. 0.000 min
Lab File: VL042458.D
Acq: 01 May 2025 09:03

Tgt Ion: 91 Resp: 382883

Ion	Ratio	Lower	Upper
91	100		
92	55.0	44.0	66.0
134	21.0	16.8	25.2



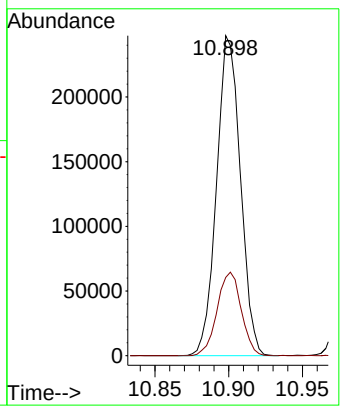


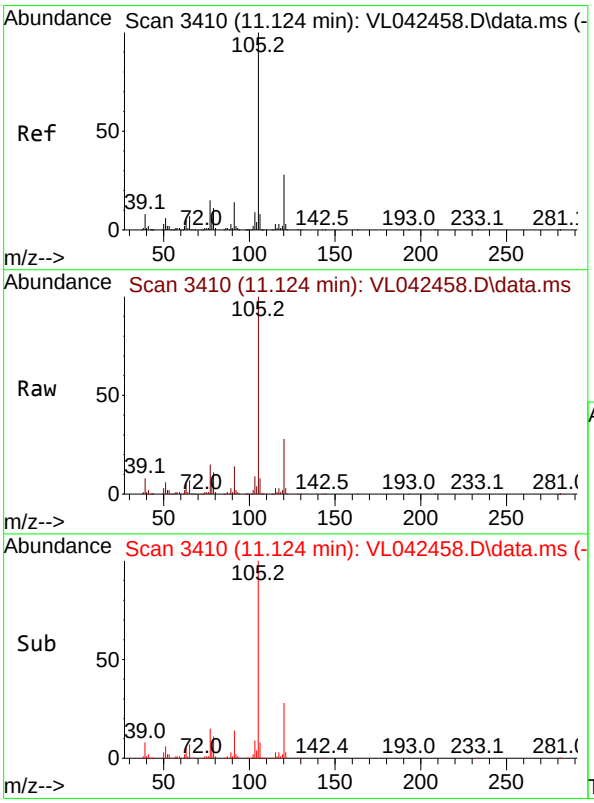
#71
2-Chlorotoluene
Concen: 10.065 ppbv
RT: 10.898 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042458.D
Acq: 01 May 2025 09:03

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 91 Resp: 278215

Ion	Ratio	Lower	Upper
91	100		
126	26.4	10.6	42.2

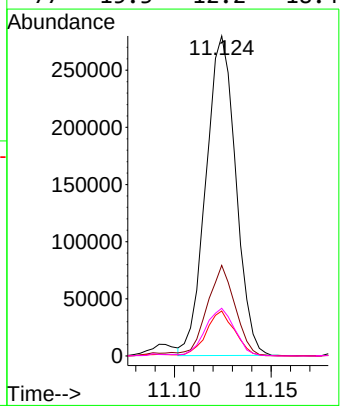


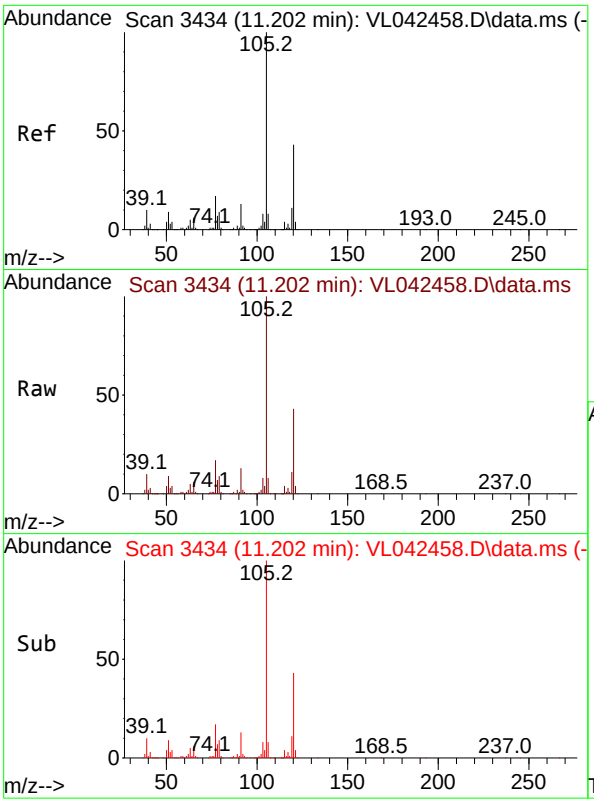


#72
4-Ethyltoluene
Concen: 10.409 ppbv
RT: 11.124 min Scan# 3410
Delta R.T. 0.000 min
Lab File: VL042458.D
Acq: 01 May 2025 09:03

Tgt Ion:105 Resp: 299831

Ion	Ratio	Lower	Upper
105	100		
120	27.5	22.0	33.0
91	14.0	11.2	16.8
77	15.3	12.2	18.4



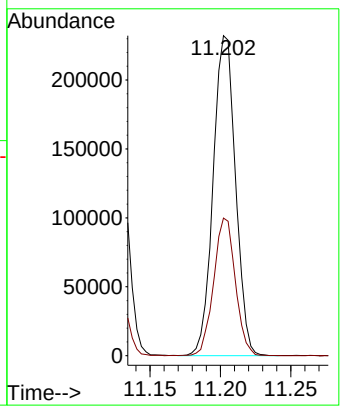


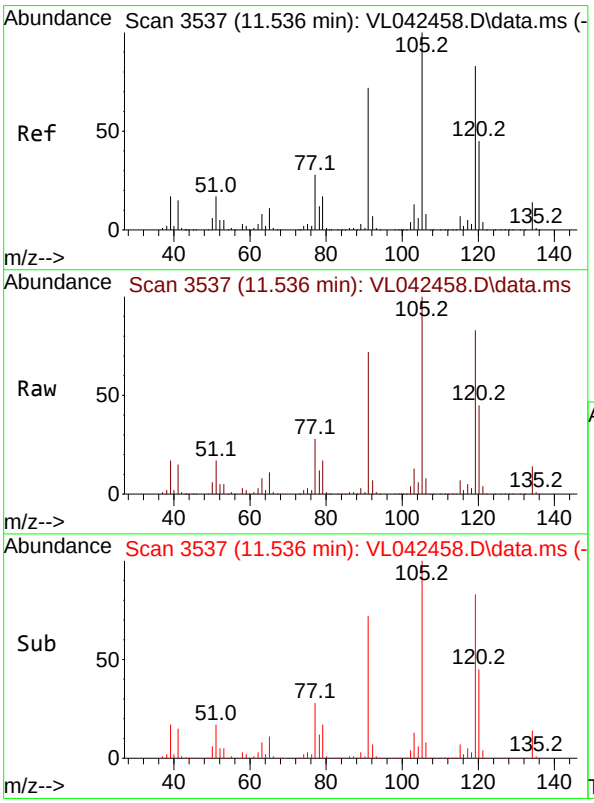
#73
1,3,5-Trimethylbenzene
Concen: 10.143 ppbv
RT: 11.202 min Scan# 34
Delta R.T. 0.000 min
Lab File: VL042458.D
Acq: 01 May 2025 09:03

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion:105 Resp: 256952

Ion	Ratio	Lower	Upper
105	100		
120	43.0	34.4	51.6

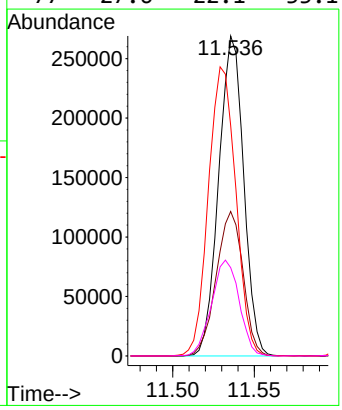


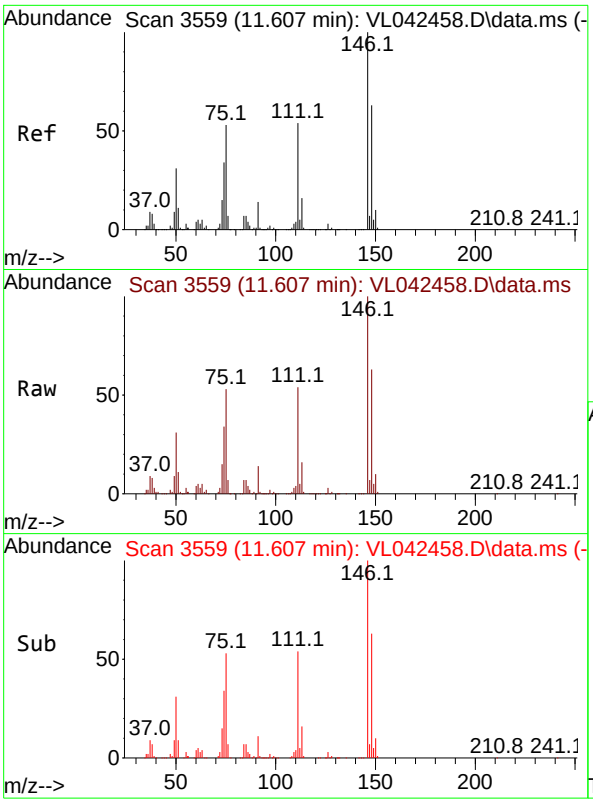


#74
1,2,4-Trimethylbenzene
Concen: 9.351 ppbv
RT: 11.536 min Scan# 3537
Delta R.T. 0.000 min
Lab File: VL042458.D
Acq: 01 May 2025 09:03

Tgt Ion:105 Resp: 286615

Ion	Ratio	Lower	Upper
105	100		
120	45.1	36.1	54.1
91	72.0	57.6	86.4
77	27.6	22.1	33.1



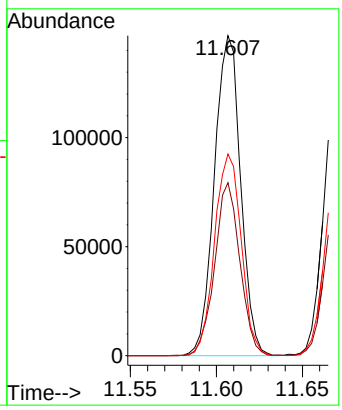


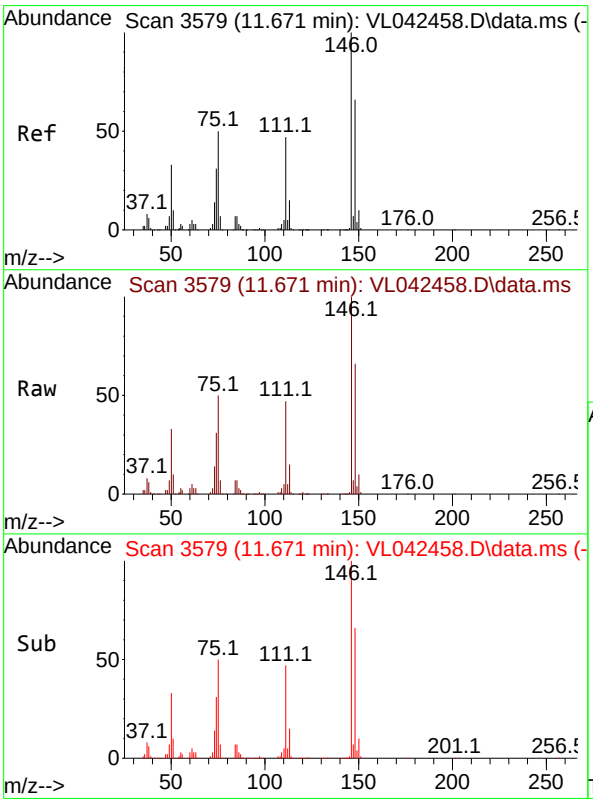
#75
1,3-Dichlorobenzene
Concen: 9.118 ppbv
RT: 11.607 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042458.D
Acq: 01 May 2025 09:03

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion:146 Resp: 155598

Ion	Ratio	Lower	Upper
146	100		
111	52.2	26.1	78.3
148	64.0	32.0	96.0

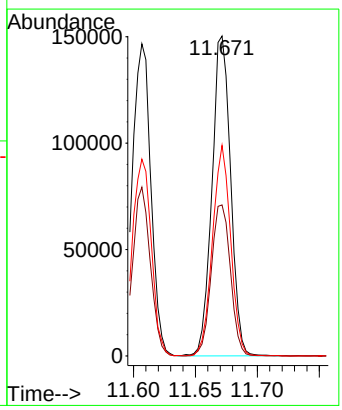


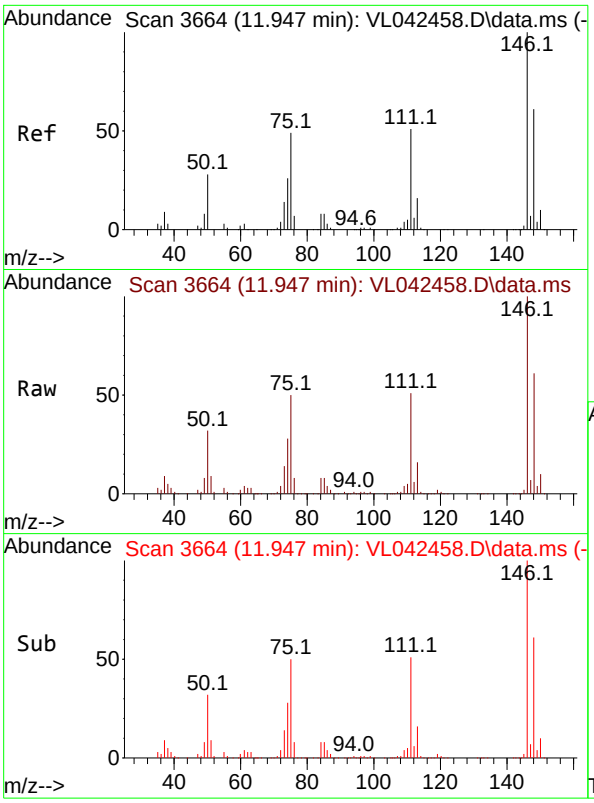


#76
1,4-Dichlorobenzene
Concen: 9.782 ppbv
RT: 11.671 min Scan# 3579
Delta R.T. 0.000 min
Lab File: VL042458.D
Acq: 01 May 2025 09:03

Tgt Ion:146 Resp: 157966

Ion	Ratio	Lower	Upper
146	100		
111	48.8	24.4	73.2
148	64.1	32.0	96.2



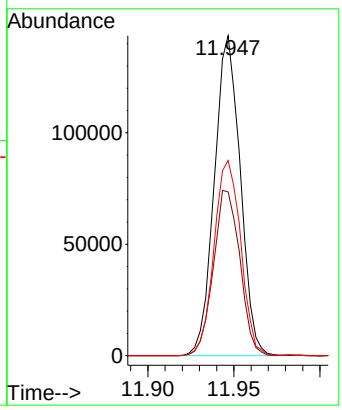


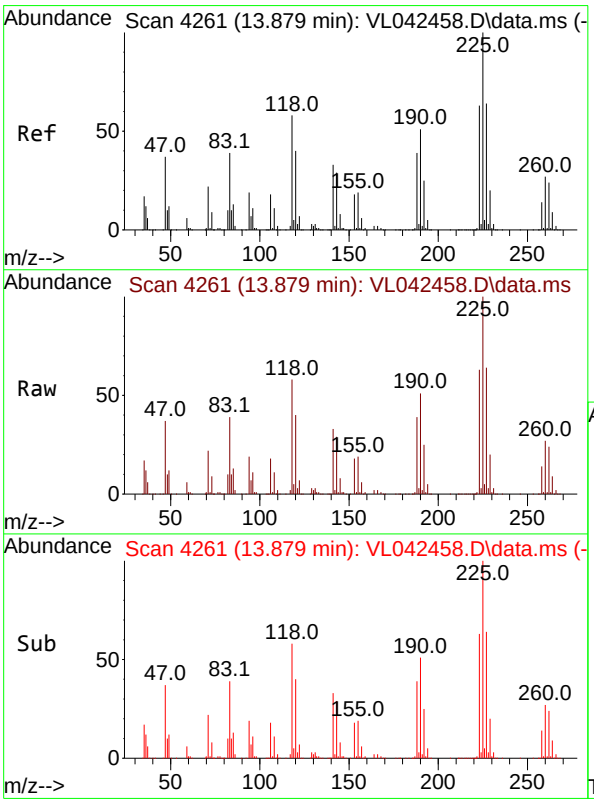
#77
1,2-Dichlorobenzene
Concen: 9.007 ppbv
RT: 11.947 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042458.D
Acq: 01 May 2025 09:03

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion:146 Resp: 150432

Ion	Ratio	Lower	Upper
146	100		
111	53.0	26.5	79.5
148	62.9	31.5	94.5

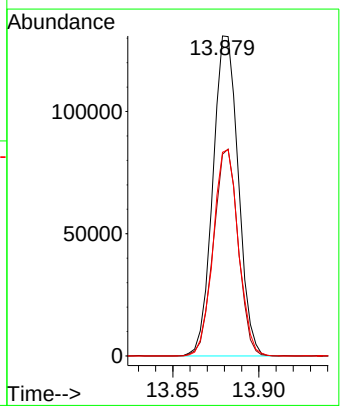


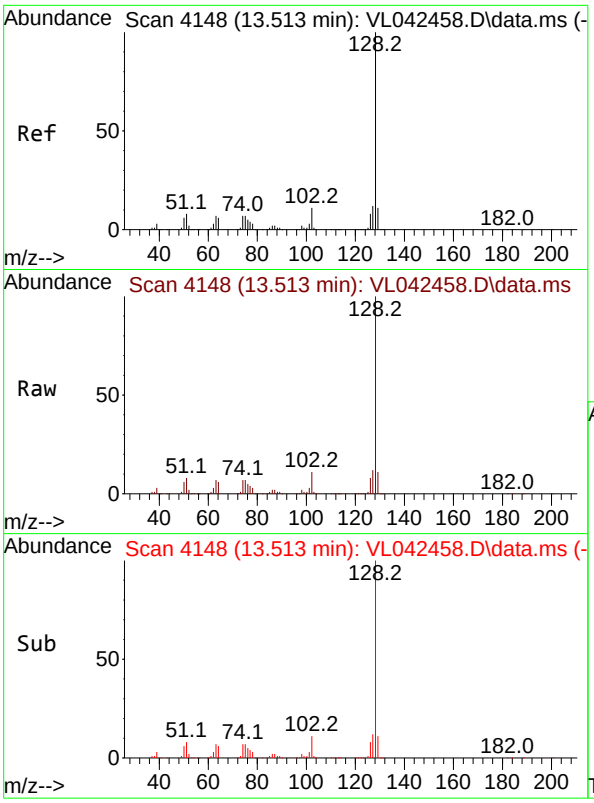


#78
Hexachloro-1,3-Butadiene
Concen: 8.058 ppbv
RT: 13.879 min Scan# 4261
Delta R.T. 0.000 min
Lab File: VL042458.D
Acq: 01 May 2025 09:03

Tgt Ion:225 Resp: 134402

Ion	Ratio	Lower	Upper
225	100		
223	62.8	50.2	75.4
227	64.0	51.2	76.8



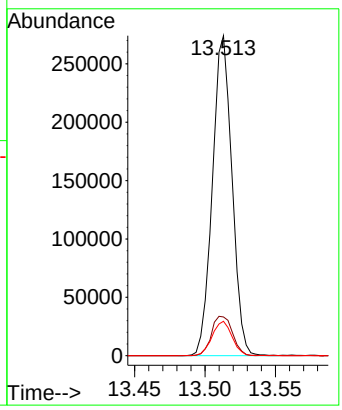


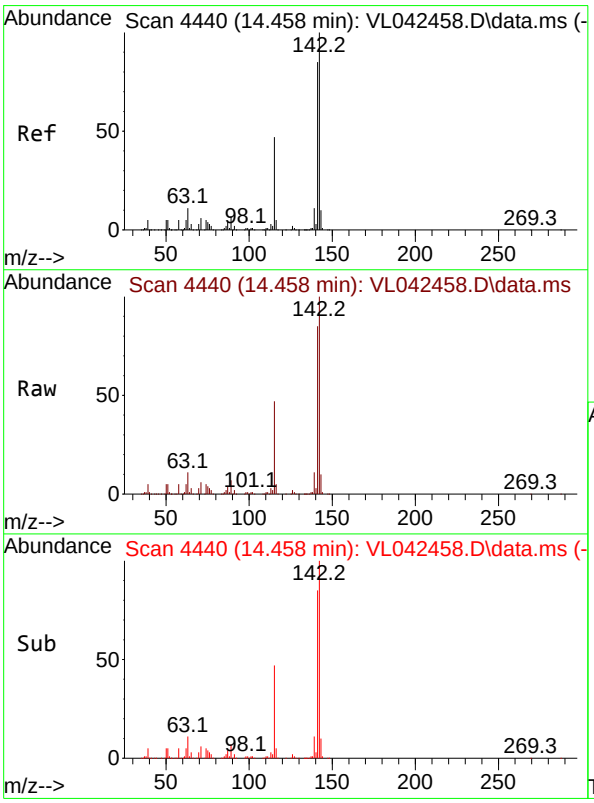
#79
Naphthalene
Concen: 10.352 ppbv
RT: 13.513 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042458.D
Acq: 01 May 2025 09:03

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion:128 Resp: 266036

Ion	Ratio	Lower	Upper
128	100		
127	12.1	9.7	14.5
129	10.8	8.6	13.0

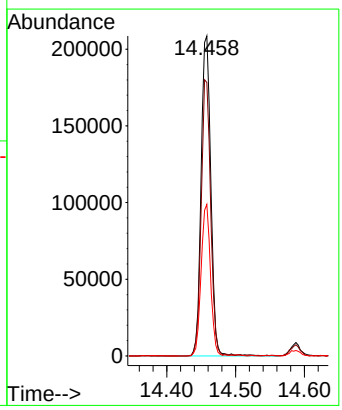


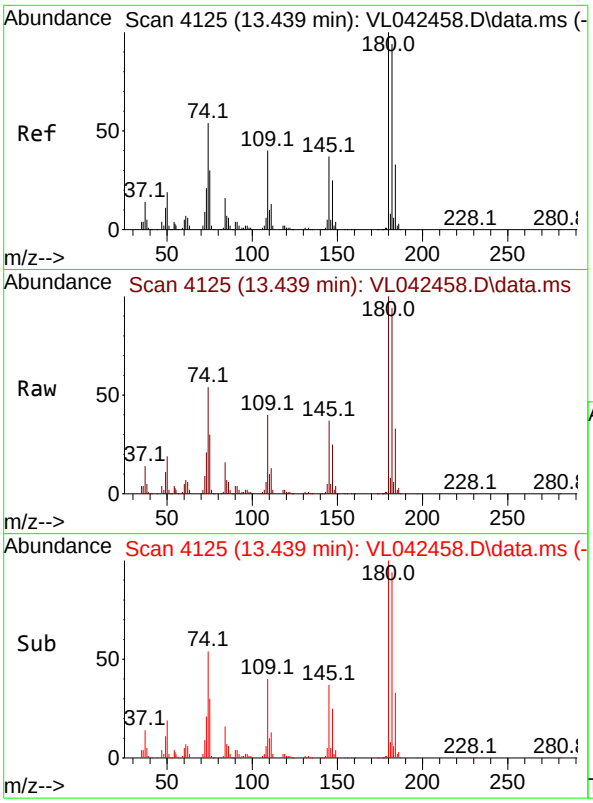


#80
Naphthalene,2-methyl-
Concen: 10.641 ppbv
RT: 14.458 min Scan# 4440
Delta R.T. 0.000 min
Lab File: VL042458.D
Acq: 01 May 2025 09:03

Tgt Ion:142 Resp: 204042

Ion	Ratio	Lower	Upper
142	100		
141	84.6	67.4	101.0
115	46.4	36.9	55.3



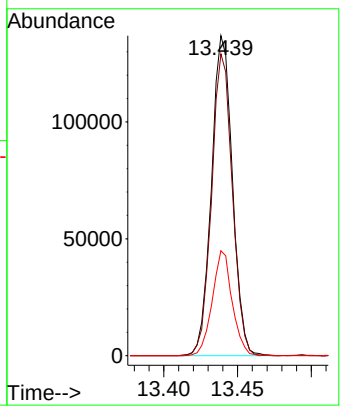


#81
1,2,4-Trichlorobenzene
Concen: 9.844 ppbv
RT: 13.439 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042458.D
Acq: 01 May 2025 09:03

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion:180 Resp: 135473

Ion	Ratio	Lower	Upper
180	100		
182	93.2	74.6	111.8
184	31.1	24.9	37.3



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050125\
Data File : VL042459.D
Acq On : 01 May 2025 09:37
Operator : SY/MD
Sample : VSTDICC002
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Quant Time: May 02 01:40:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri May 02 01:37:48 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.787	49	73220	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.955	114	201951	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.881	117	174624	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.377	95	159777	9.869	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 98.700%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.499	85	23859	1.969	ppbv		100
3) Chlorodifluoromethane	1.476	51	26655	2.081	ppbv		95
4) Chloromethane	1.531	50	10751	2.123	ppbv		95
5) Vinyl Chloride	1.580	62	9122	1.789	ppbv		92
6) Bromomethane	1.667	94	4793	1.990	ppbv	#	62
7) Chloroethane	1.703	64	3972	2.110	ppbv		94
8) Dichlorotetrafluoroethane	1.554	85	20529	2.055	ppbv		100
9) Propene	1.482	41	9234	2.204	ppbv		95
10) Heptane	4.978	43	13843	1.274	ppbv	#	49
11) Trichlorofluoromethane	1.877	101	22375	2.070	ppbv		96
12) 1,1,2-Trichlorotrifluo...	2.140	101	18230	2.042	ppbv		97
13) Ethanol	1.722	45	2099	2.468	ppbv		94
14) Bromoethene	1.780	108	6686	2.029	ppbv	#	96
15) Acetone	1.835	43	29607	2.215	ppbv		99
16) 1,3-Butadiene	1.609	39	12245	2.077	ppbv		92
17) tert-Butyl alcohol	2.042	59	23722	2.014	ppbv	#	93
18) 1,1-Dichloroethene	2.033	96	8303	1.992	ppbv		92
19) Isopropyl Alcohol	1.884	45	14288	1.931	ppbv		99
20) Methylene Chloride	2.062	84	7590	1.889	ppbv		96
21) Allyl Chloride	2.094	41	17050	1.983	ppbv		96
22) trans-1,2-Dichloroethene	2.340	96	9444	1.940	ppbv		97
23) Vinyl Acetate	2.463	43	26502	2.128	ppbv		98
24) 1,1-Dichloroethane	2.408	63	20027	2.016	ppbv		98
25) Ethyl Acetate	2.839	43	43122	2.015	ppbv		97
26) Hexane	2.822	57	19691	2.112	ppbv		95
27) Carbon Disulfide	2.149	76	21945	2.017	ppbv	#	43
28) Methyl tert-Butyl Ether	2.441	73	11119	1.985	ppbv		94
29) Chloroform	2.848	83	35127	2.010	ppbv		86
30) Cyclohexane	3.858	84	16056	2.060	ppbv		95
31) cis-1,2-Dichloroethene	2.719	61	22619	2.079	ppbv		95
32) 1,1,1-Trichloroethane	3.369	97	36768	1.940	ppbv		99
34) 2-Butanone	2.557	43	31242	2.139	ppbv		95
35) Carbon Tetrachloride	3.764	117	35326	2.011	ppbv		97
36) Benzene	3.661	78	41848	2.196	ppbv	#	88
37) 1,2-Dichloroethane	3.217	62	31049	2.114	ppbv		99
38) Trichloroethene	4.544	130	9503	1.308	ppbv		91
39) 1,2-Dichloropropane	4.311	63	14611	2.047	ppbv		91
40) 1,4-Dioxane	4.593	88	4312	1.299	ppbv	#	100
41) Tetrahydrofuran	3.059	42	14824	2.140	ppbv		95
42) Bromodichloromethane	4.489	83	37615	2.096	ppbv	#	99
43) Methyl Methacrylate	4.884	69	14111	1.989	ppbv	#	88
44) 2,2,4-Trimethylpentane	4.638	57	65967	2.142	ppbv		99
45) t-1,3-Dichloropropene	6.409	75	15248	1.632	ppbv	#	85

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050125\
Data File : VL042459.D
Acq On : 01 May 2025 09:37
Operator : SY/MD
Sample : VSTDICC002
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Quant Time: May 02 01:40:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri May 02 01:37:48 2025
Response via : Initial Calibration

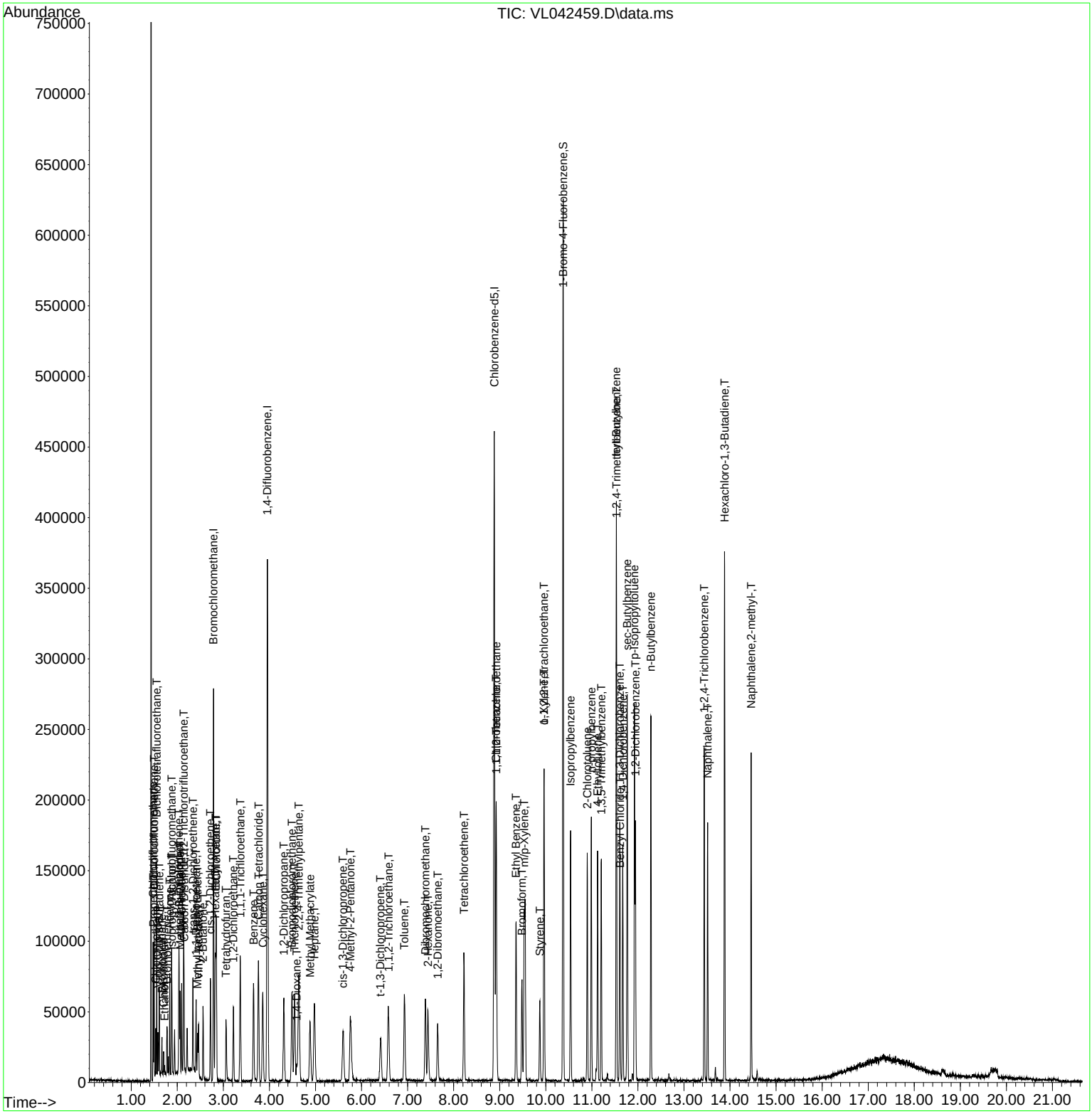
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) cis-1,3-Dichloropropene	5.593	75	22184	2.000	ppbv		93
47) 1,1,2-Trichloroethane	6.587	97	13861	1.771	ppbv	#	85
48) Dibromochloromethane	7.386	129	27174	2.057	ppbv		99
49) Bromoform	9.483	173	23126	2.088	ppbv		98
50) 4-Methyl-2-Pentanone	5.758	43	39798	2.155	ppbv		99
51) 2-Hexanone	7.441	43	32196	2.177	ppbv	#	97
52) Tetrachloroethene	8.224	164	13670	1.885	ppbv		93
53) Toluene	6.930	91	41392	2.052	ppbv		97
54) 1,2-Dibromoethane	7.652	107	24650	2.049	ppbv		99
56) 1,1,1,2-Tetrachloroethane	8.927	131	20822	2.019	ppbv		95
57) Chlorobenzene	8.920	112	36187	2.062	ppbv	#	88
58) Ethyl Benzene	9.354	91	61177	2.096	ppbv		91
59) m/p-Xylene	9.532	91	49942	2.041	ppbv	#	33
60) o-Xylene	9.963	91	53051	2.169	ppbv		99
61) Styrene	9.872	104	18776	2.054	ppbv		97
62) Isopropylbenzene	10.539	105	75626	2.140	ppbv		99
63) 1,1,2,2-Tetrachloroethane	9.963	83	34562	2.178	ppbv		98
64) n-propylbenzene	10.989	120	19160	2.226	ppbv		94
65) tert-Butylbenzene	11.532	119	70813	2.246	ppbv		97
66) Benzyl Chloride	11.613	91	6794	1.864	ppbv		97
67) sec-Butylbenzene	11.769	105	101458	2.264	ppbv		99
69) p-Isopropyltoluene	11.924	119	84026	2.226	ppbv		98
70) n-Butylbenzene	12.280	91	89400	2.291	ppbv		97
71) 2-Chlorotoluene	10.901	91	59271	2.139	ppbv		97
72) 4-Ethyltoluene	11.124	105	63833	2.210	ppbv		98
73) 1,3,5-Trimethylbenzene	11.205	105	56516	2.225	ppbv		94
74) 1,2,4-Trimethylbenzene	11.536	105	72485	2.359	ppbv		94
75) 1,3-Dichlorobenzene	11.607	146	36885	2.156	ppbv		97
76) 1,4-Dichlorobenzene	11.671	146	33728	2.083	ppbv		94
77) 1,2-Dichlorobenzene	11.947	146	36078	2.154	ppbv		99
78) Hexachloro-1,3-Butadiene	13.882	225	37360	2.234	ppbv		99
79) Naphthalene	13.513	128	75248	2.920	ppbv		96
80) Naphthalene,2-methyl-	14.458	142	54922	2.857	ppbv		96
81) 1,2,4-Trichlorobenzene	13.442	180	33063	2.396	ppbv		95

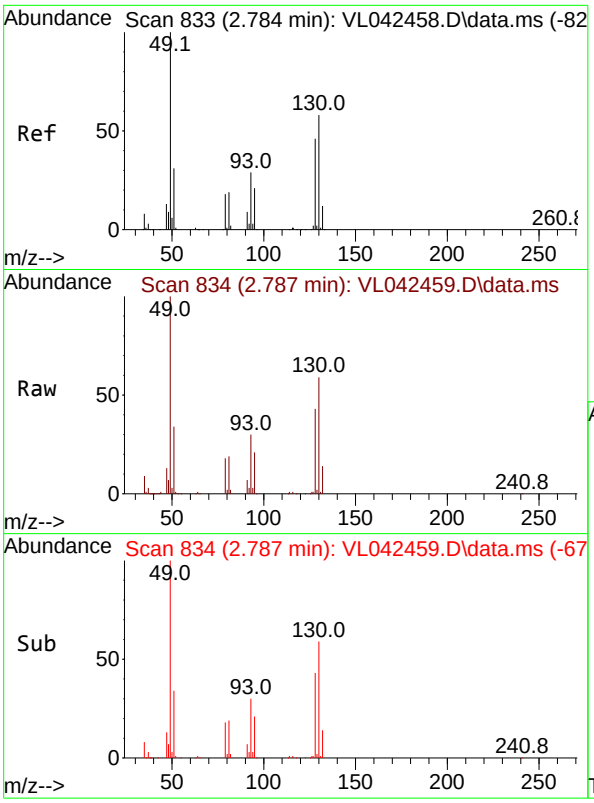
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050125\
Data File : VL042459.D
Acq On : 01 May 2025 09:37
Operator : SY/MD
Sample : VSTDICC002
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Quant Time: May 02 01:40:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri May 02 01:37:48 2025
Response via : Initial Calibration



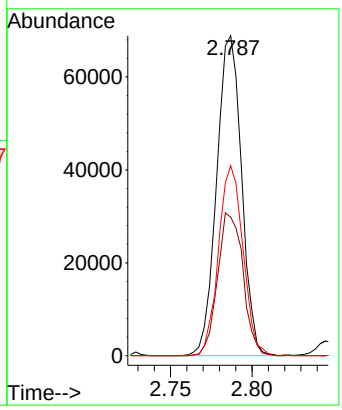


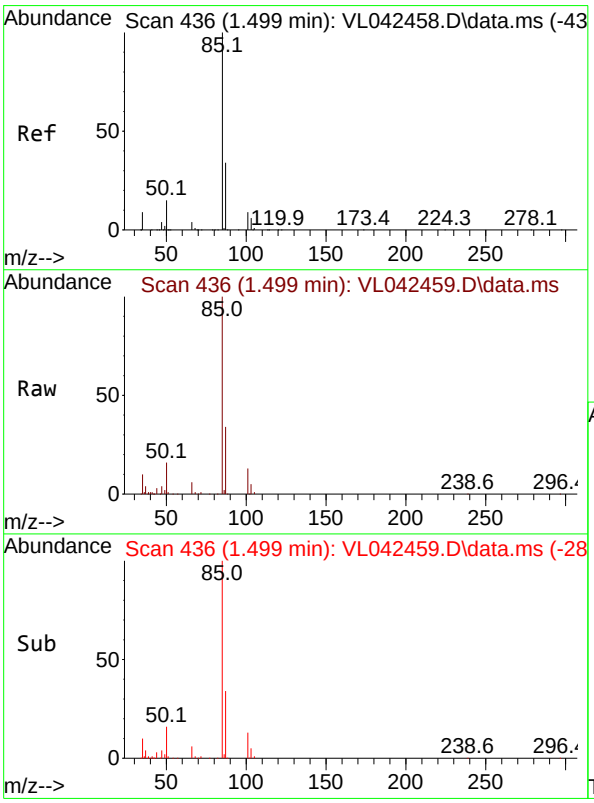
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042459.D
Acq: 01 May 2025 09:37

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 49 Resp: 73220

Ion	Ratio	Lower	Upper
49	100		
128	45.4	23.3	69.9
130	58.4	29.5	88.6

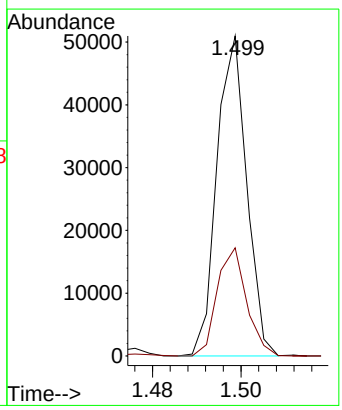


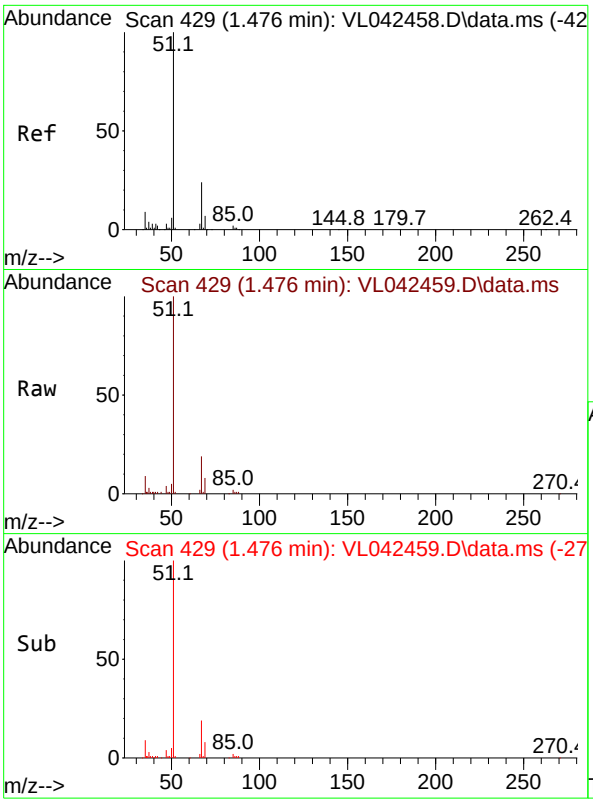


#2
Dichlorodifluoromethane
Concen: 1.969 ppbv
RT: 1.499 min Scan# 436
Delta R.T. -0.000 min
Lab File: VL042459.D
Acq: 01 May 2025 09:37

Tgt Ion: 85 Resp: 23859

Ion	Ratio	Lower	Upper
85	100		
87	33.8	26.9	40.3



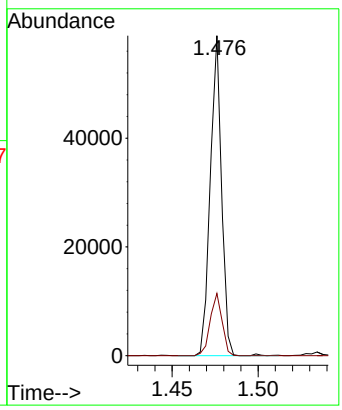


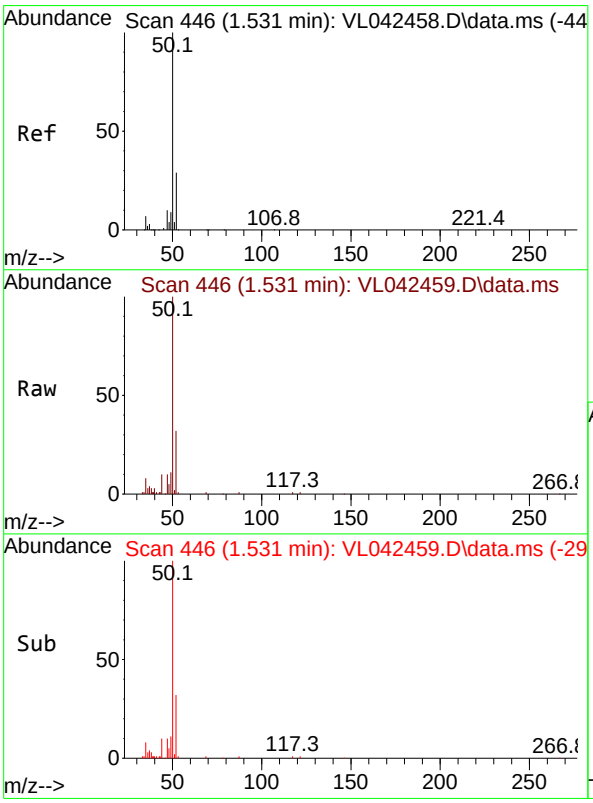
#3
Chlorodifluoromethane
Concen: 2.081 ppbv
RT: 1.476 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042459.D
Acq: 01 May 2025 09:37

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 51 Resp: 26655

Ion	Ratio	Lower	Upper
51	100		
67	20.6	18.4	27.6

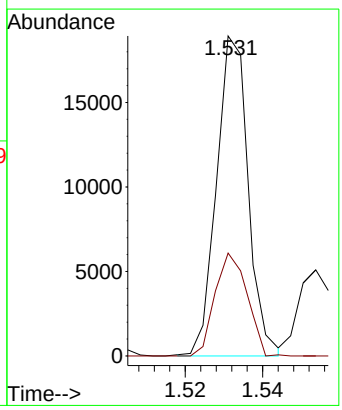


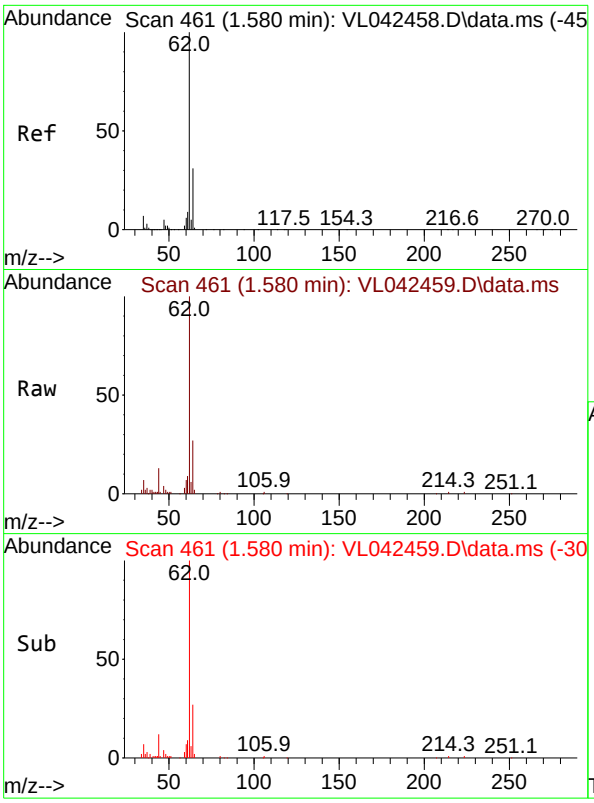


#4
Chloromethane
Concen: 2.123 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042459.D
Acq: 01 May 2025 09:37

Tgt Ion: 50 Resp: 10751

Ion	Ratio	Lower	Upper
50	100		
52	32.3	23.5	35.3



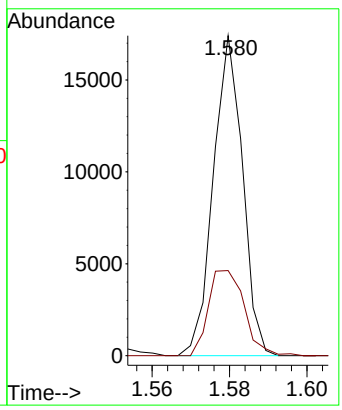


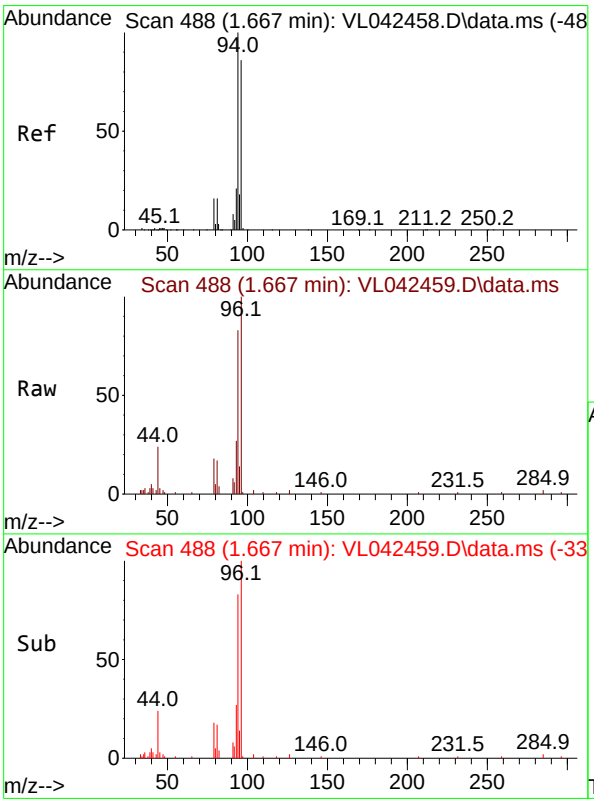
#5
Vinyl Chloride
Concen: 1.789 ppbv
RT: 1.580 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042459.D
Acq: 01 May 2025 09:37

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 62 Resp: 9122

Ion	Ratio	Lower	Upper
62	100		
64	26.6	24.9	37.3

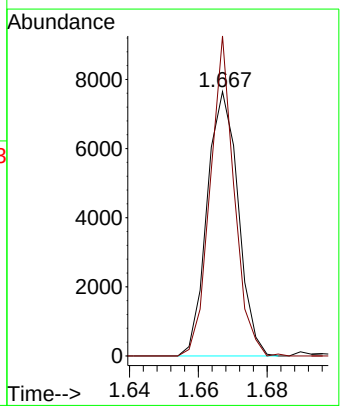


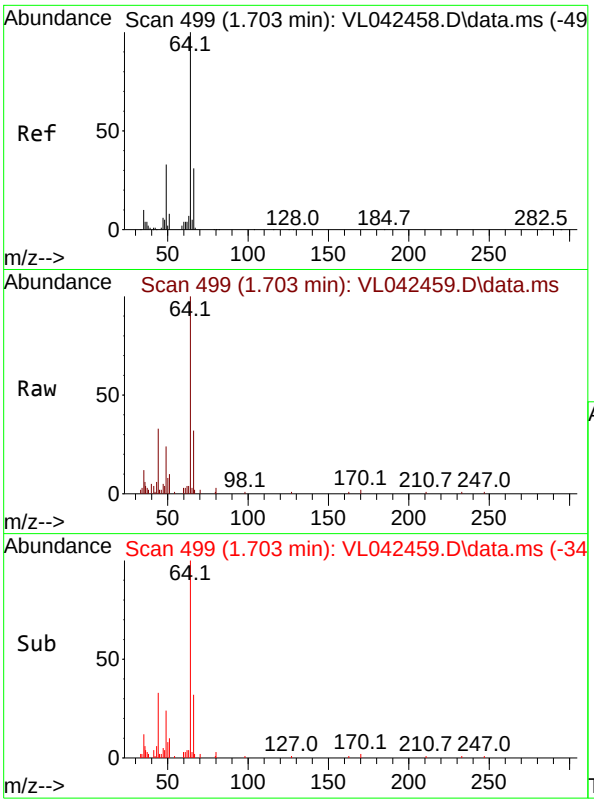


#6
Bromomethane
Concen: 1.990 ppbv
RT: 1.667 min Scan# 488
Delta R.T. 0.000 min
Lab File: VL042459.D
Acq: 01 May 2025 09:37

Tgt Ion: 94 Resp: 4793

Ion	Ratio	Lower	Upper
94	100		
96	121.0	68.8	103.2#



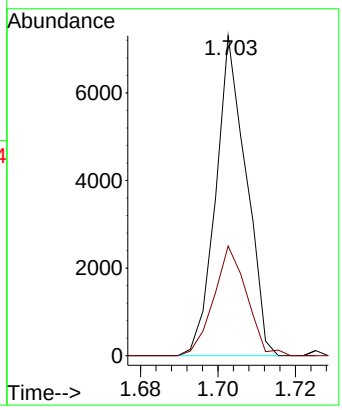


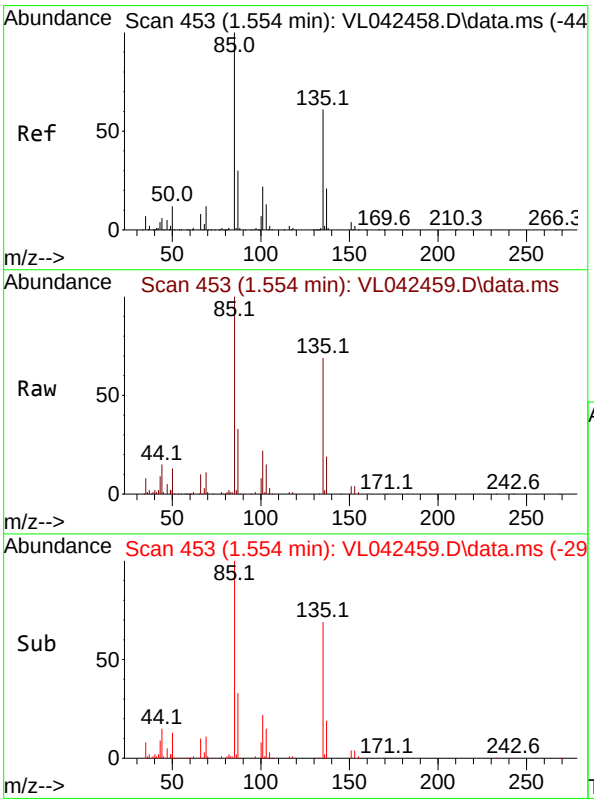
#7
Chloroethane
Concen: 2.110 ppbv
RT: 1.703 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042459.D
Acq: 01 May 2025 09:37

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 64 Resp: 3972

Ion	Ratio	Lower	Upper
64	100		
66	34.3	25.0	37.4

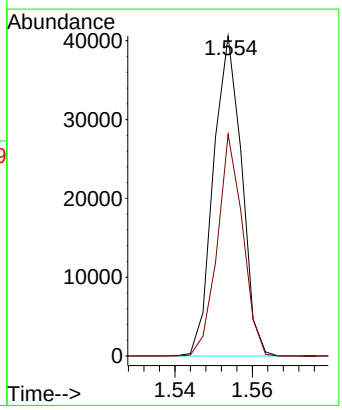


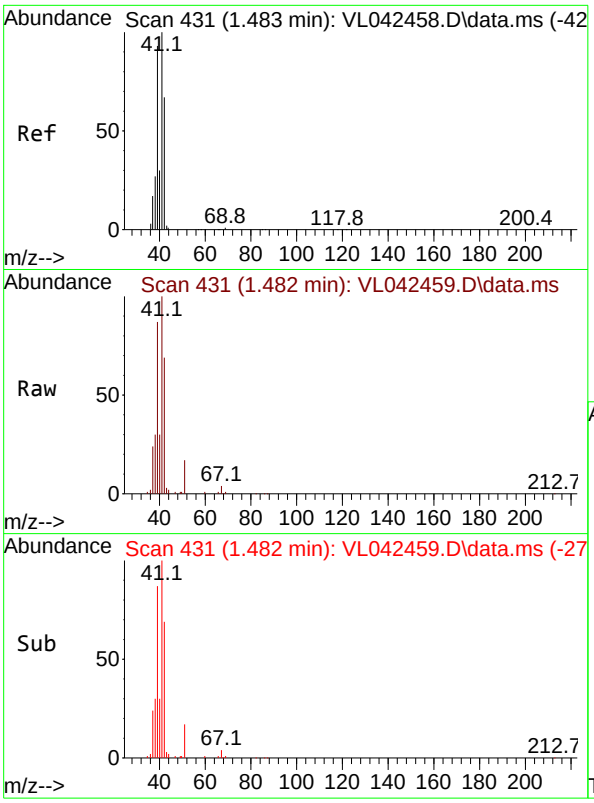


#8
Dichlorotetrafluoroethane
Concen: 2.055 ppbv
RT: 1.554 min Scan# 453
Delta R.T. 0.000 min
Lab File: VL042459.D
Acq: 01 May 2025 09:37

Tgt Ion: 85 Resp: 20529

Ion	Ratio	Lower	Upper
85	100		
135	62.6	49.8	74.8



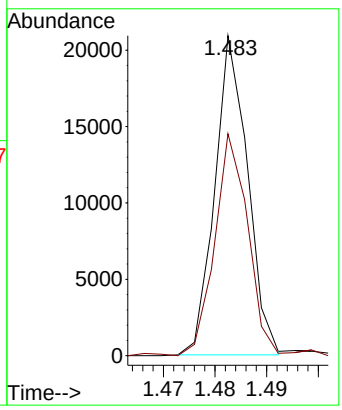


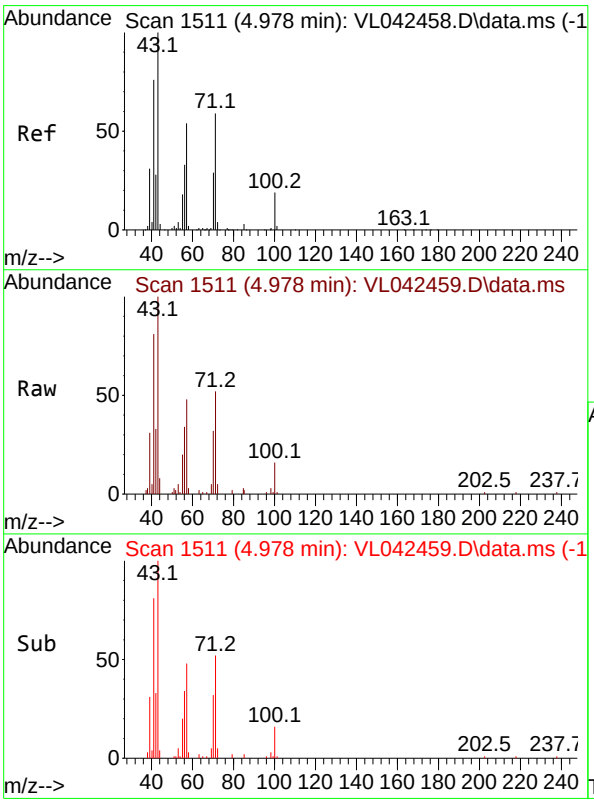
#9
Propene
Concen: 2.204 ppbv
RT: 1.482 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042459.D
Acq: 01 May 2025 09:37

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 41 Resp: 9234

Ion	Ratio	Lower	Upper
41	100		
42	72.2	54.3	81.5

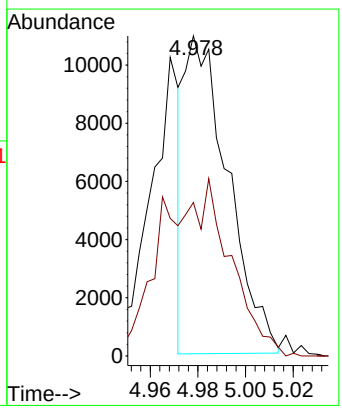


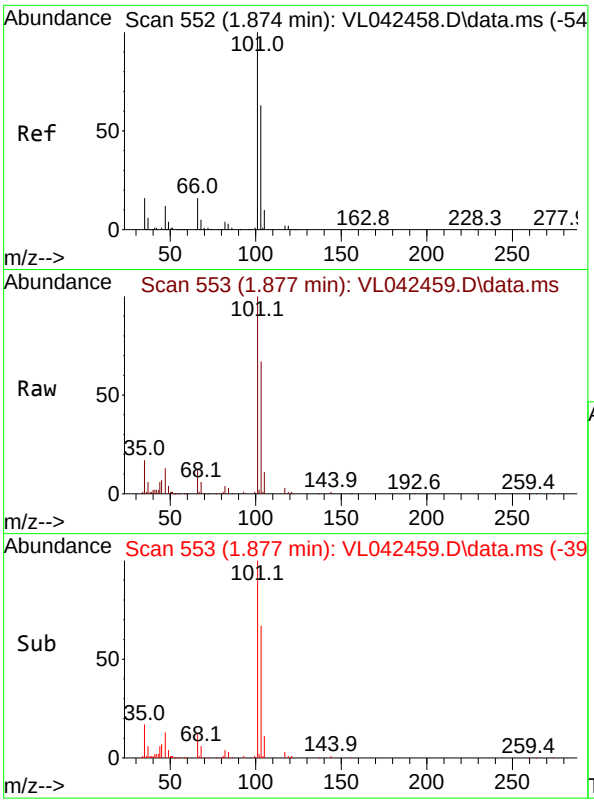


#10
Heptane
Concen: 1.274 ppbv
RT: 4.978 min Scan# 1511
Delta R.T. -0.000 min
Lab File: VL042459.D
Acq: 01 May 2025 09:37

Tgt Ion: 43 Resp: 13843

Ion	Ratio	Lower	Upper
43	100		
57	88.2	41.8	62.8#



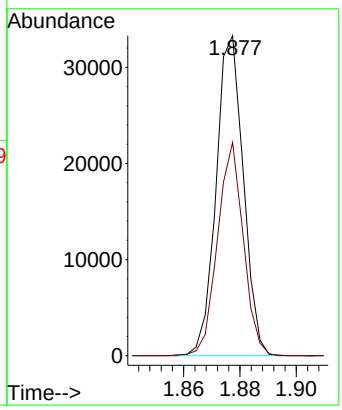


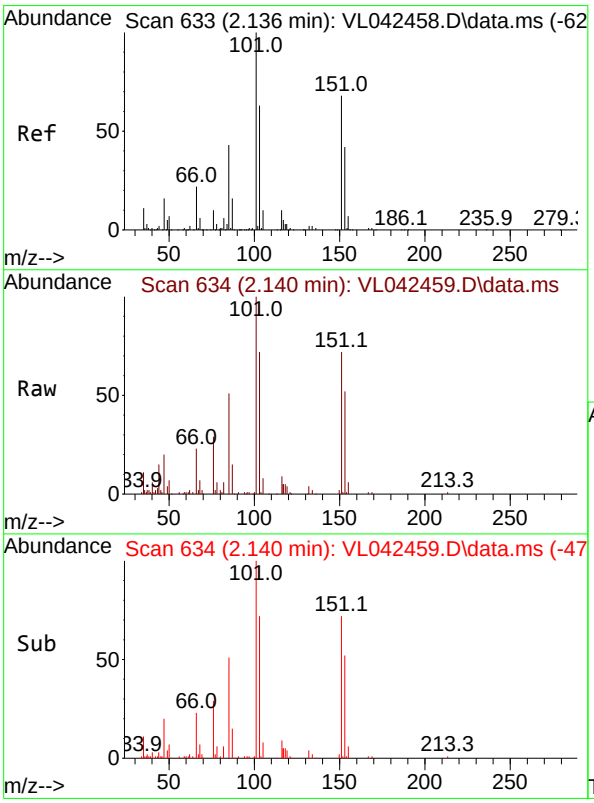
#11
Trichlorofluoromethane
Concen: 2.070 ppbv
RT: 1.877 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042459.D
Acq: 01 May 2025 09:37

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion:101 Resp: 22375

Ion	Ratio	Lower	Upper
101	100		
103	66.6	50.6	76.0

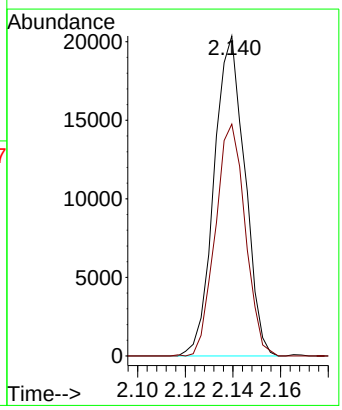


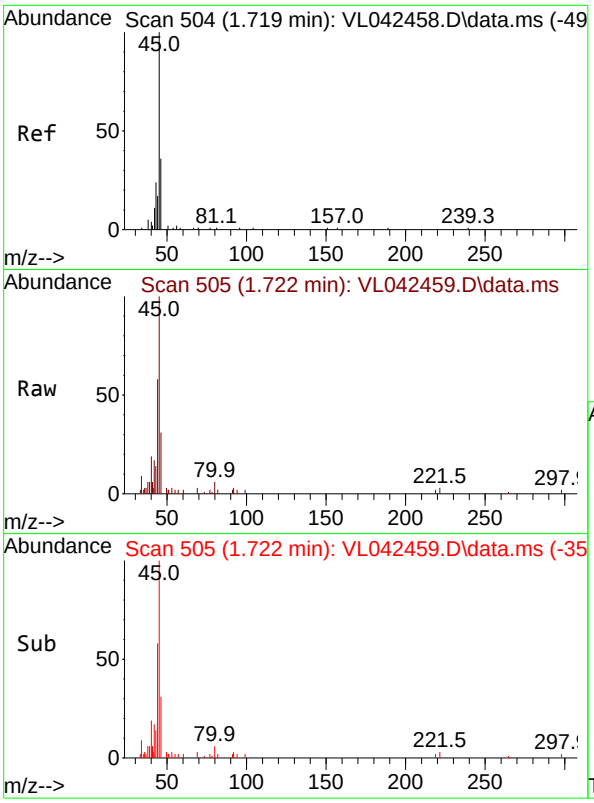


#12
1,1,2-Trichlorotrifluoroethane
Concen: 2.042 ppbv
RT: 2.140 min Scan# 634
Delta R.T. 0.003 min
Lab File: VL042459.D
Acq: 01 May 2025 09:37

Tgt Ion:101 Resp: 18230

Ion	Ratio	Lower	Upper
101	100		
151	70.4	54.6	82.0



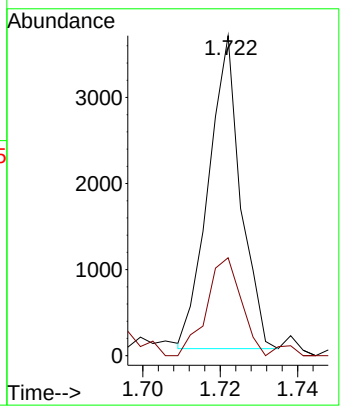


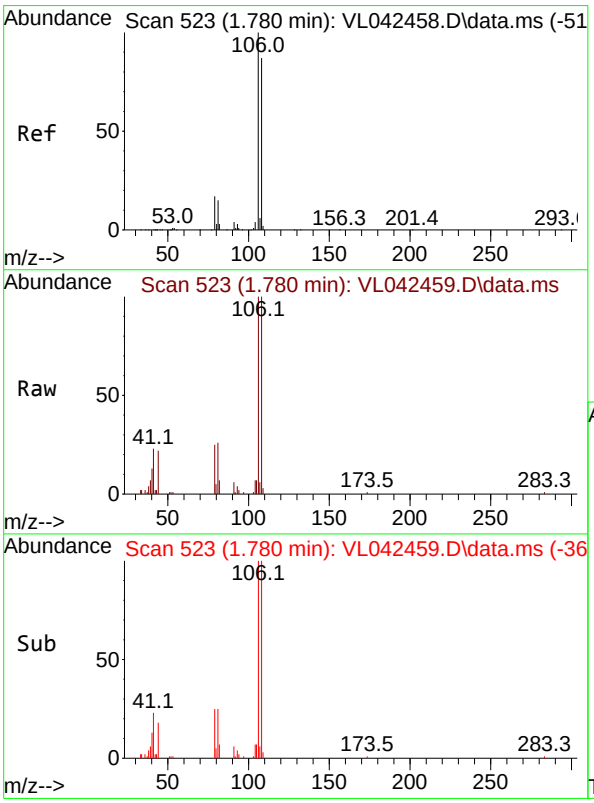
#13
Ethanol
Concen: 2.468 ppbv
RT: 1.722 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042459.D
Acq: 01 May 2025 09:37

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 45 Resp: 2099

Ion	Ratio	Lower	Upper
45	100		
46	41.9	15.3	61.1

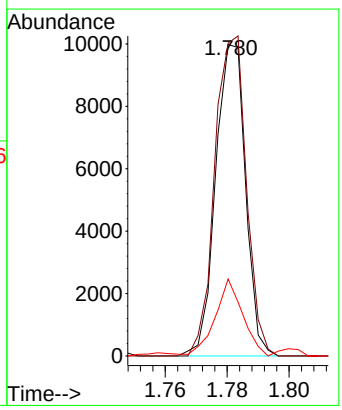


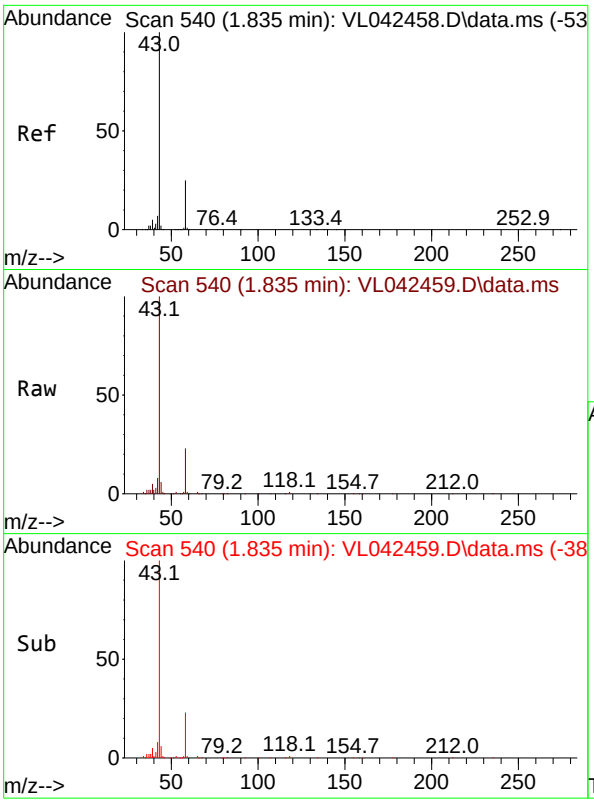


#14
Bromoethene
Concen: 2.029 ppbv
RT: 1.780 min Scan# 523
Delta R.T. -0.000 min
Lab File: VL042459.D
Acq: 01 May 2025 09:37

Tgt Ion:108 Resp: 6686

Ion	Ratio	Lower	Upper
108	100		
106	108.2	88.8	133.2
79	25.7	17.1	25.7#



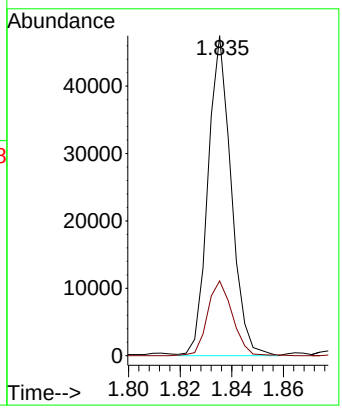


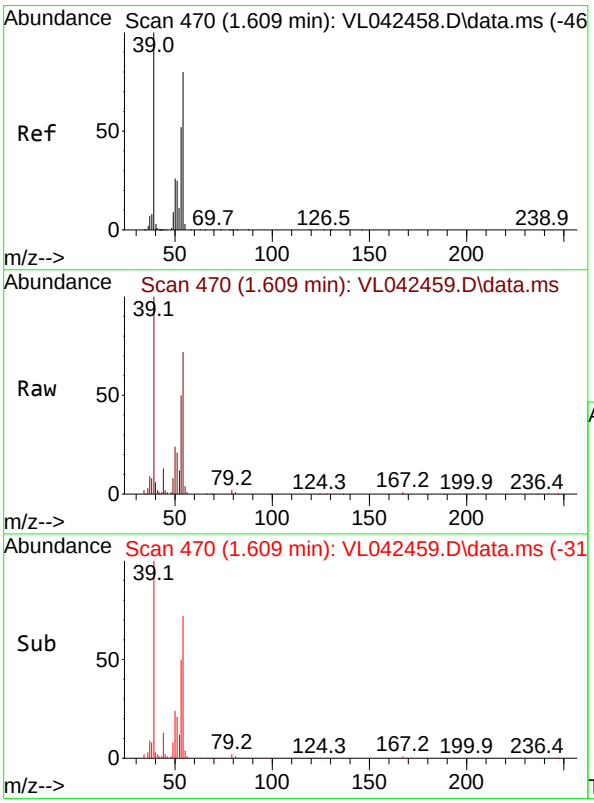
#15
Acetone
Concen: 2.215 ppbv
RT: 1.835 min Scan# 54
Delta R.T. -0.000 min
Lab File: VL042459.D
Acq: 01 May 2025 09:37

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 43 Resp: 29607

Ion	Ratio	Lower	Upper
43	100		
58	25.1	19.8	29.8

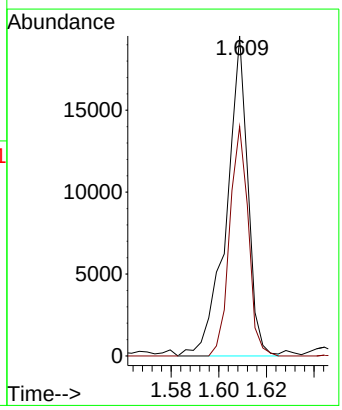


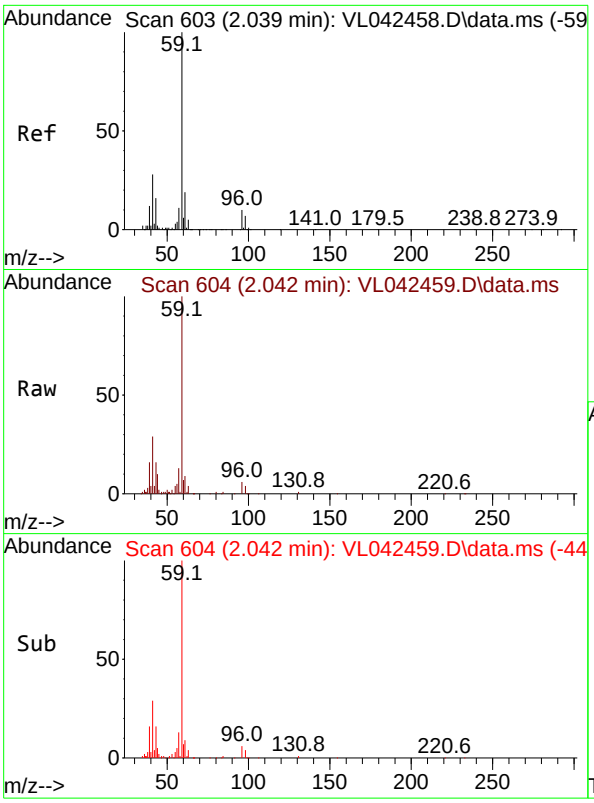


#16
1,3-Butadiene
Concen: 2.077 ppbv
RT: 1.609 min Scan# 470
Delta R.T. -0.000 min
Lab File: VL042459.D
Acq: 01 May 2025 09:37

Tgt Ion: 39 Resp: 12245

Ion	Ratio	Lower	Upper
39	100		
54	62.1	55.2	82.8



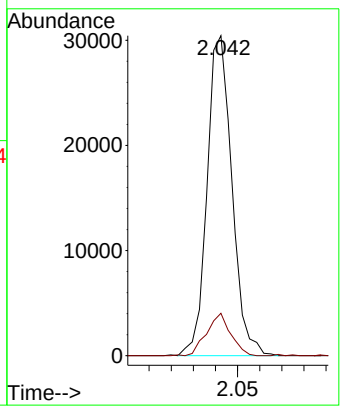


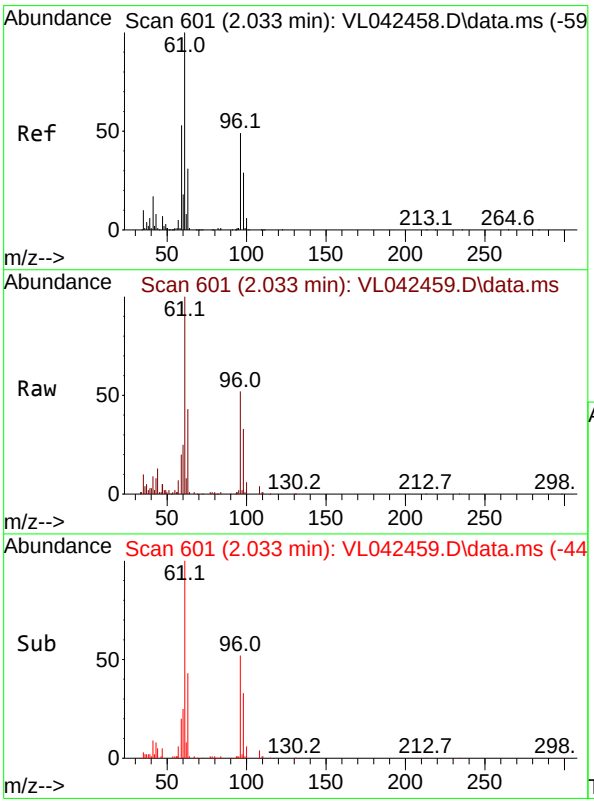
#17
tert-Butyl alcohol
Concen: 2.014 ppbv
RT: 2.042 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL042459.D
Acq: 01 May 2025 09:37

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 59 Resp: 23722

Ion	Ratio	Lower	Upper
59	100		
57	12.9	8.3	12.5#

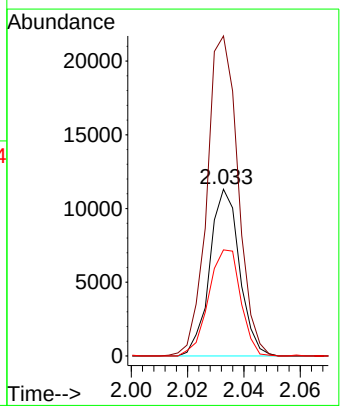


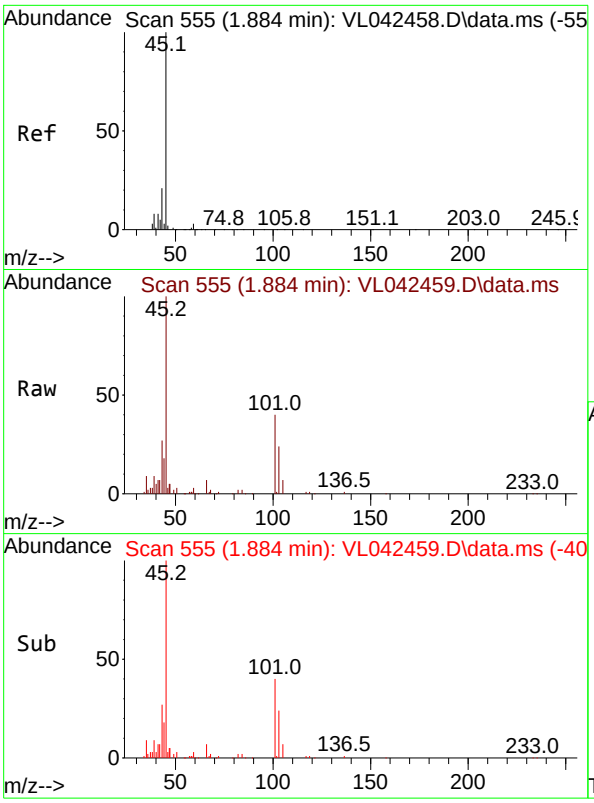


#18
1,1-Dichloroethene
Concen: 1.992 ppbv
RT: 2.033 min Scan# 601
Delta R.T. -0.000 min
Lab File: VL042459.D
Acq: 01 May 2025 09:37

Tgt Ion: 96 Resp: 8303

Ion	Ratio	Lower	Upper
96	100		
61	191.9	164.9	247.3
98	63.6	48.2	72.2



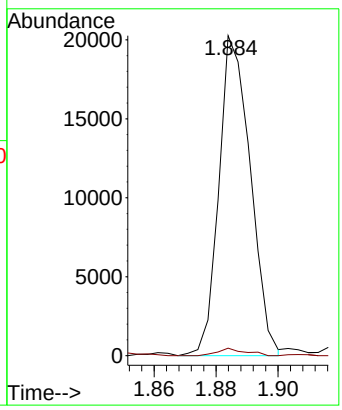


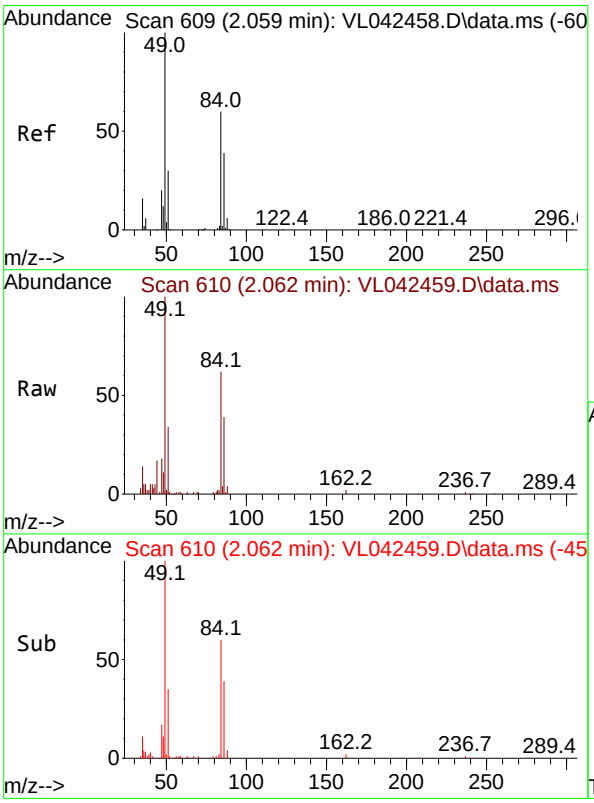
#19
Isopropyl Alcohol
Concen: 1.931 ppbv
RT: 1.884 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL042459.D
Acq: 01 May 2025 09:37

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 45 Resp: 14288

Ion	Ratio	Lower	Upper
45	100		
58	2.3	1.6	2.4

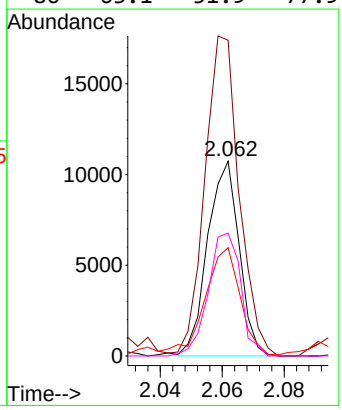


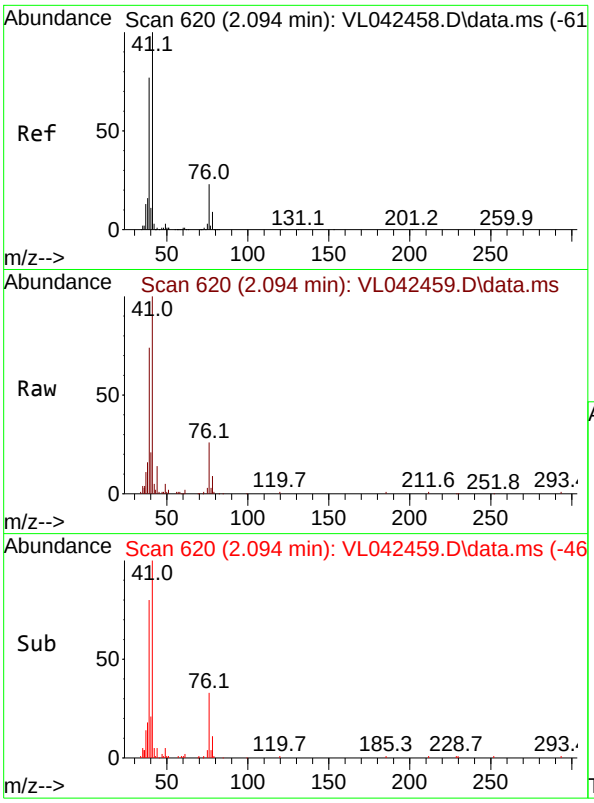


#20
Methylene Chloride
Concen: 1.889 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.003 min
Lab File: VL042459.D
Acq: 01 May 2025 09:37

Tgt Ion: 84 Resp: 7590

Ion	Ratio	Lower	Upper
84	100		
49	162.1	133.9	200.9
51	55.0	41.0	61.6
86	63.1	51.9	77.9



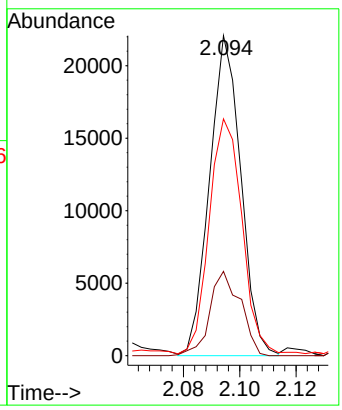


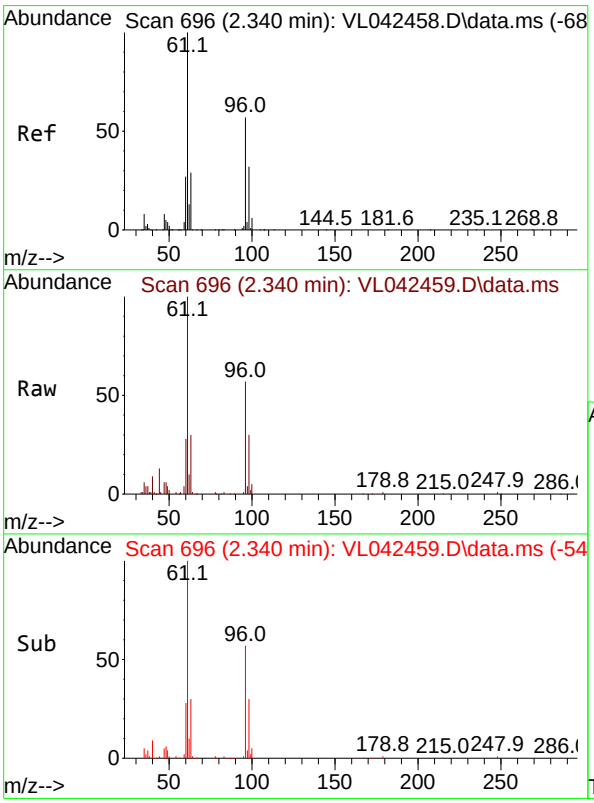
#21
Allyl Chloride
Concen: 1.983 ppbv
RT: 2.094 min Scan# 6
Delta R.T. -0.000 min
Lab File: VL042459.D
Acq: 01 May 2025 09:37

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 41 Resp: 17050

Ion	Ratio	Lower	Upper
41	100		
76	25.8	19.6	29.4
39	79.8	61.0	91.4

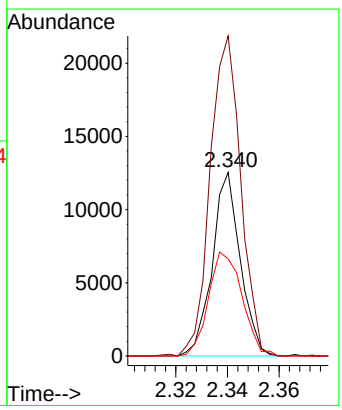


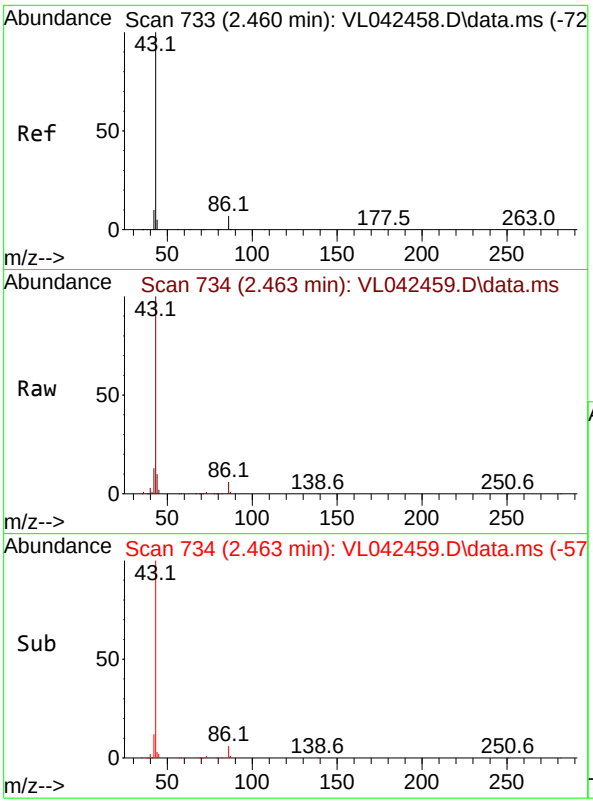


#22
trans-1,2-Dichloroethene
Concen: 1.940 ppbv
RT: 2.340 min Scan# 696
Delta R.T. -0.000 min
Lab File: VL042459.D
Acq: 01 May 2025 09:37

Tgt Ion: 96 Resp: 9444

Ion	Ratio	Lower	Upper
96	100		
61	174.3	141.8	212.6
98	52.9	45.0	67.6



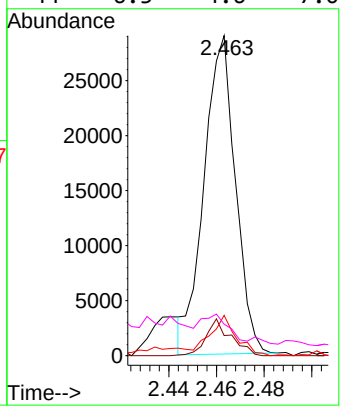


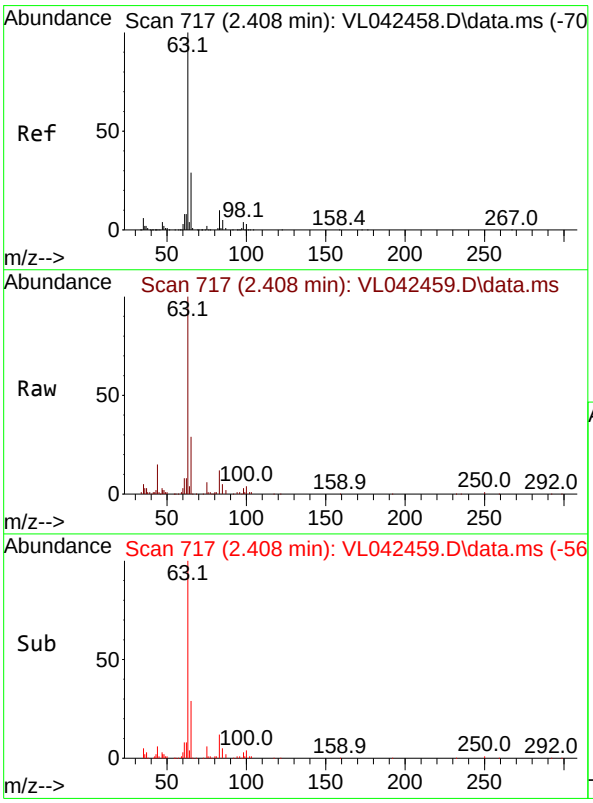
#23
Vinyl Acetate
Concen: 2.128 ppbv
RT: 2.463 min Scan# 7
Delta R.T. 0.003 min
Lab File: VL042459.D
Acq: 01 May 2025 09:37

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 43 Resp: 26502

Ion	Ratio	Lower	Upper
43	100		
86	6.4	5.5	8.3
42	11.6	8.3	12.5
44	6.3	4.6	7.0

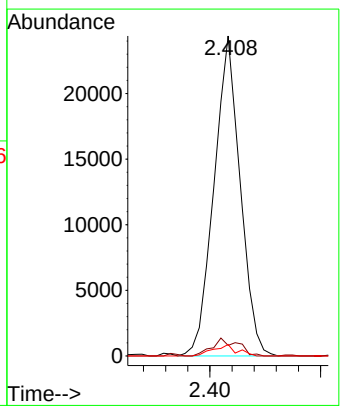


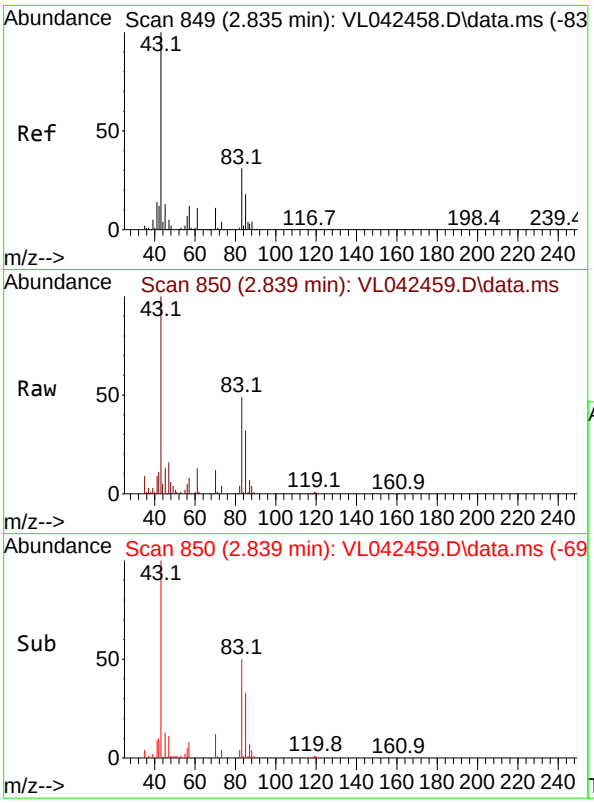


#24
1,1-Dichloroethane
Concen: 2.016 ppbv
RT: 2.408 min Scan# 717
Delta R.T. -0.000 min
Lab File: VL042459.D
Acq: 01 May 2025 09:37

Tgt Ion: 63 Resp: 20027

Ion	Ratio	Lower	Upper
63	100		
98	3.3	1.8	5.5
100	3.6	1.4	4.2



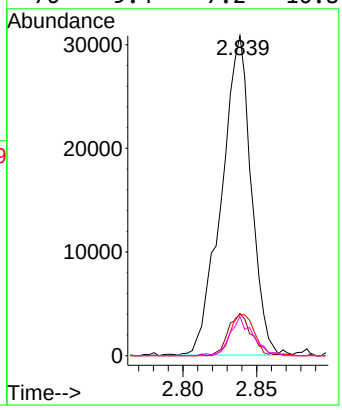


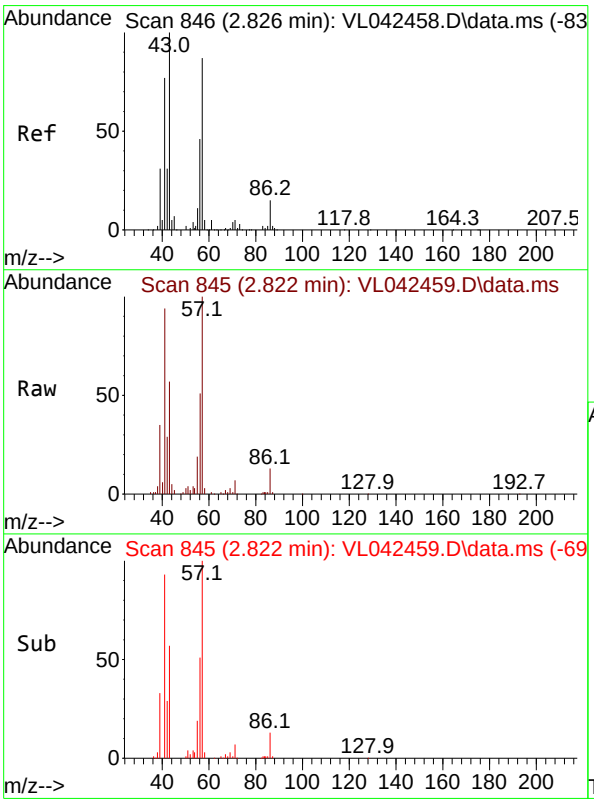
#25
Ethyl Acetate
Concen: 2.015 ppbv
RT: 2.839 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042459.D
Acq: 01 May 2025 09:37

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 43 Resp: 43122

Ion	Ratio	Lower	Upper
43	100		
45	10.7	7.8	11.6
61	10.6	7.2	10.8
70	9.4	7.2	10.8

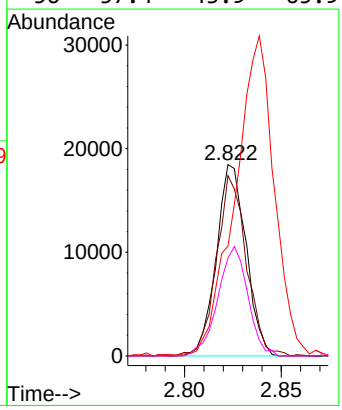


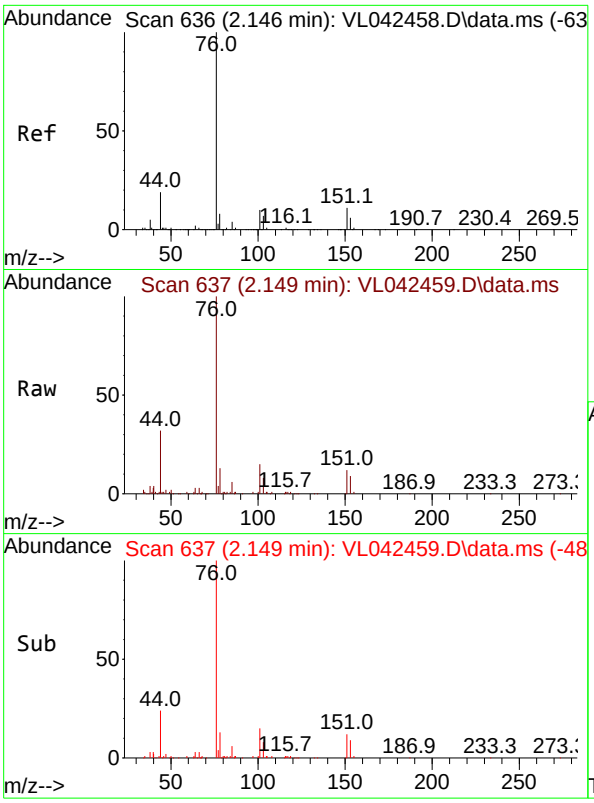


#26
Hexane
Concen: 2.112 ppbv
RT: 2.822 min Scan# 845
Delta R.T. -0.003 min
Lab File: VL042459.D
Acq: 01 May 2025 09:37

Tgt Ion: 57 Resp: 19691

Ion	Ratio	Lower	Upper
57	100		
41	95.1	77.8	116.8
43	223.3	187.0	280.6
56	57.4	43.9	65.9



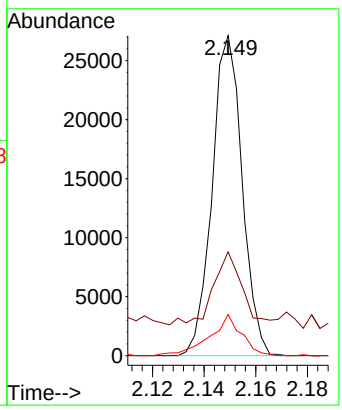


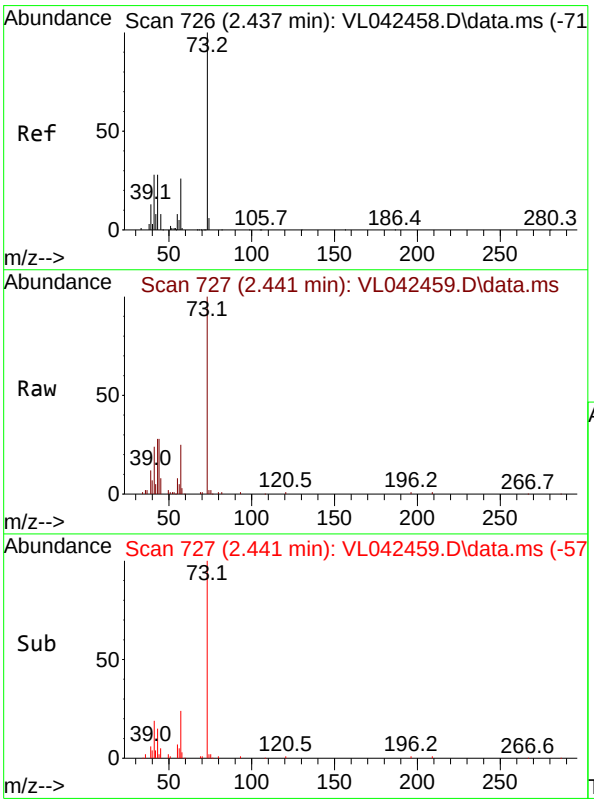
#27
Carbon Disulfide
Concen: 2.017 ppbv
RT: 2.149 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL042459.D
Acq: 01 May 2025 09:37

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 76 Resp: 21945

Ion	Ratio	Lower	Upper
76	100		
44	66.1	21.0	31.6#
78	13.6	8.6	13.0#

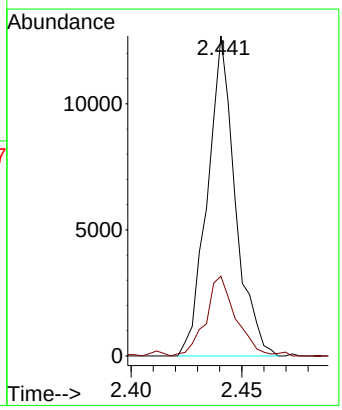


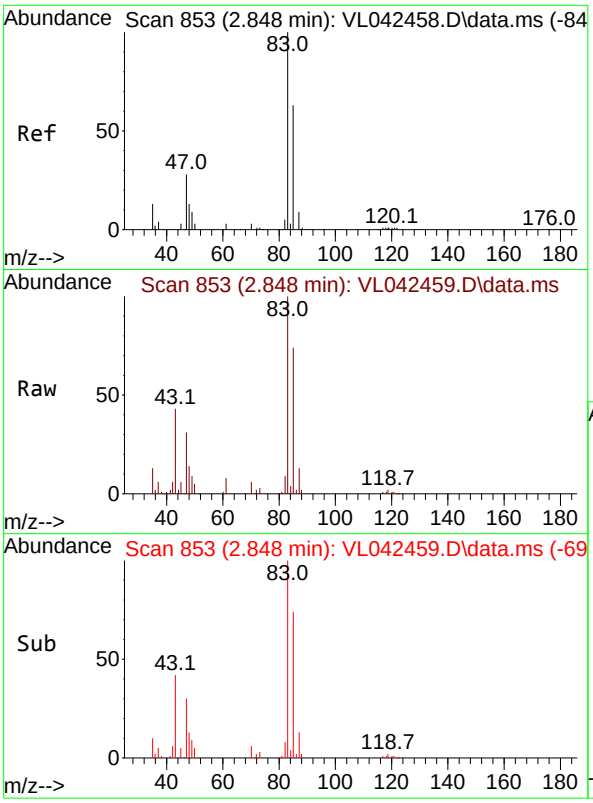


#28
Methyl tert-Butyl Ether
Concen: 1.985 ppbv
RT: 2.441 min Scan# 727
Delta R.T. 0.003 min
Lab File: VL042459.D
Acq: 01 May 2025 09:37

Tgt Ion: 73 Resp: 11119

Ion	Ratio	Lower	Upper
73	100		
57	28.0	19.9	29.9



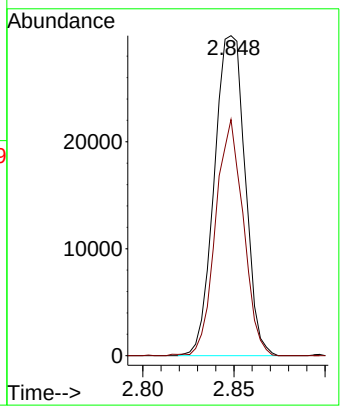


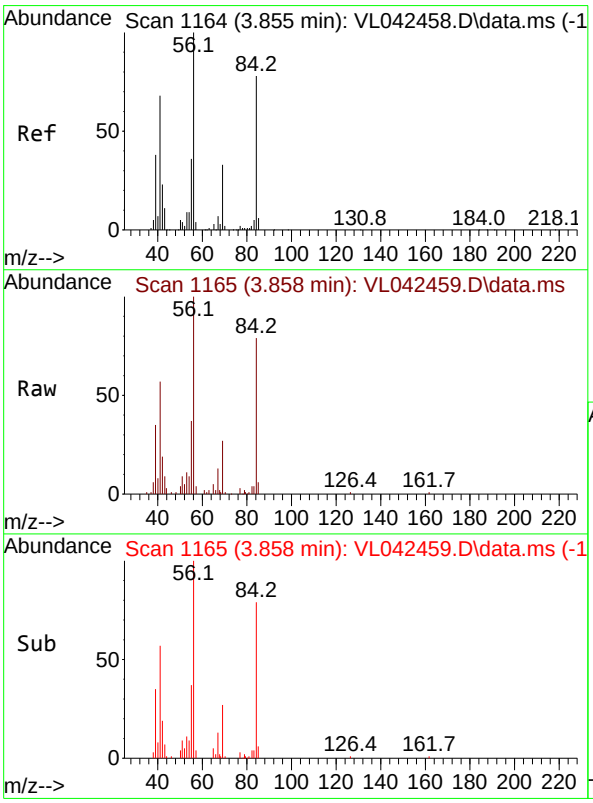
#29
Chloroform
Concen: 2.010 ppbv
RT: 2.848 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL042459.D
Acq: 01 May 2025 09:37

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 83 Resp: 35127

Ion	Ratio	Lower	Upper
83	100		
85	73.8	50.4	75.6

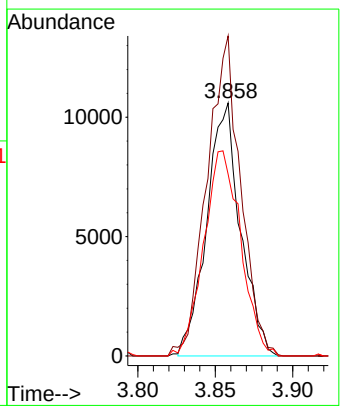


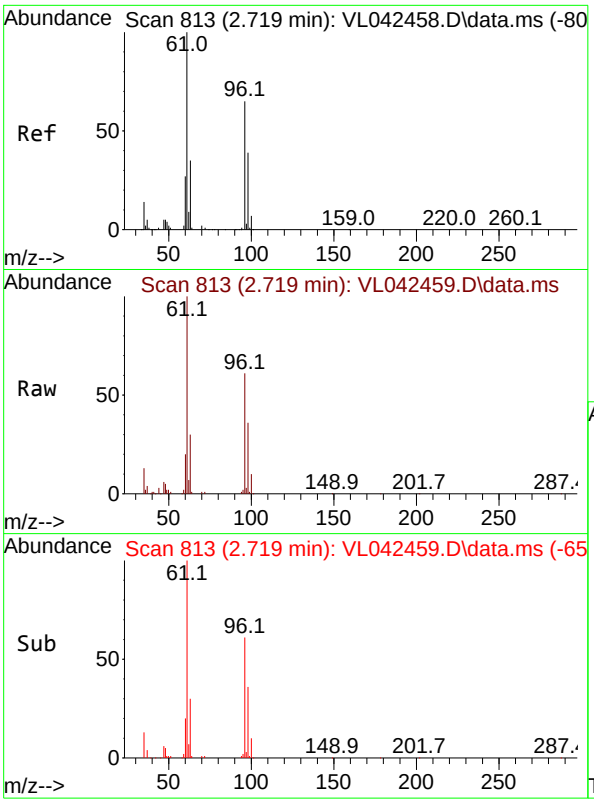


#30
Cyclohexane
Concen: 2.060 ppbv
RT: 3.858 min Scan# 1165
Delta R.T. 0.003 min
Lab File: VL042459.D
Acq: 01 May 2025 09:37

Tgt Ion: 84 Resp: 16056

Ion	Ratio	Lower	Upper
84	100		
56	126.5	98.1	147.1
41	88.7	65.8	98.8



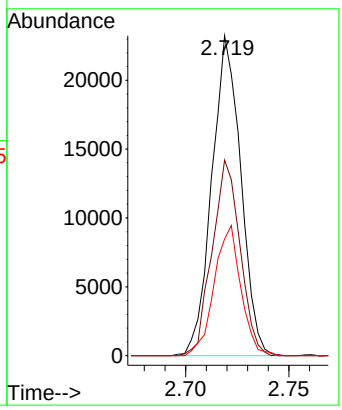


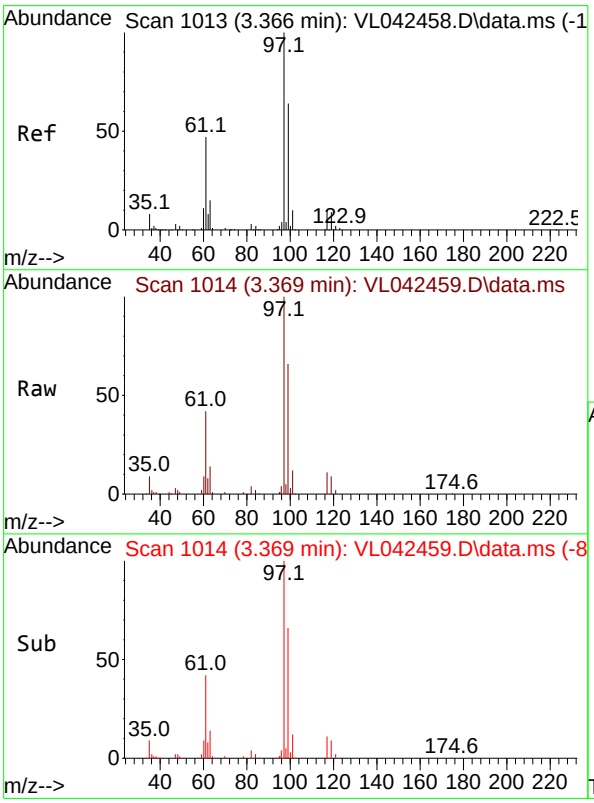
#31
cis-1,2-Dichloroethene
Concen: 2.079 ppbv
RT: 2.719 min Scan# 81
Delta R.T. -0.000 min
Lab File: VL042459.D
Acq: 01 May 2025 09:37

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 61 Resp: 22619

Ion	Ratio	Lower	Upper
61	100		
96	61.1	52.0	78.0
98	36.5	31.0	46.6

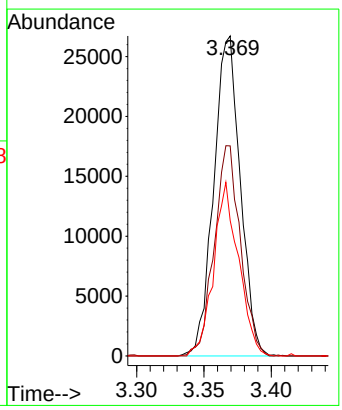


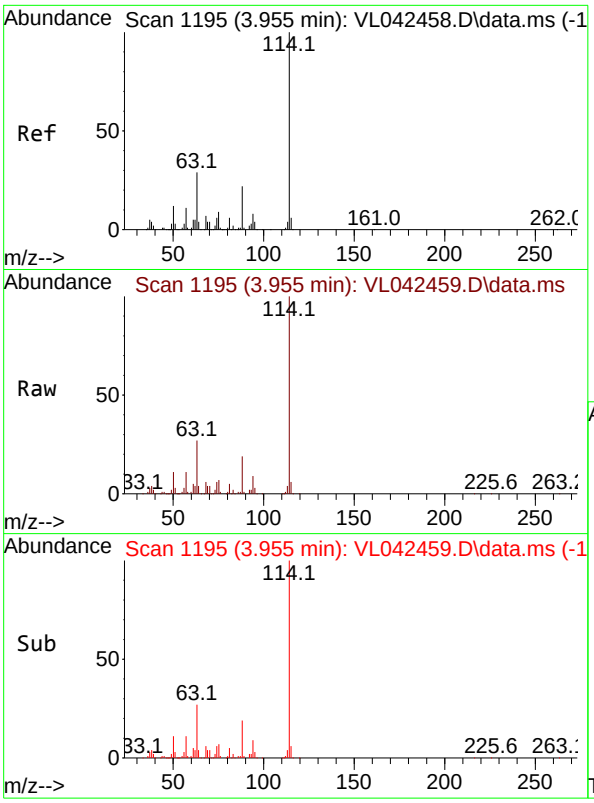


#32
1,1,1-Trichloroethane
Concen: 1.940 ppbv
RT: 3.369 min Scan# 1014
Delta R.T. 0.003 min
Lab File: VL042459.D
Acq: 01 May 2025 09:37

Tgt Ion: 97 Resp: 36768

Ion	Ratio	Lower	Upper
97	100		
99	64.7	50.7	76.1
61	50.8	40.9	61.3



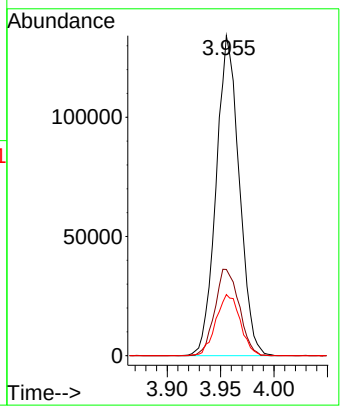


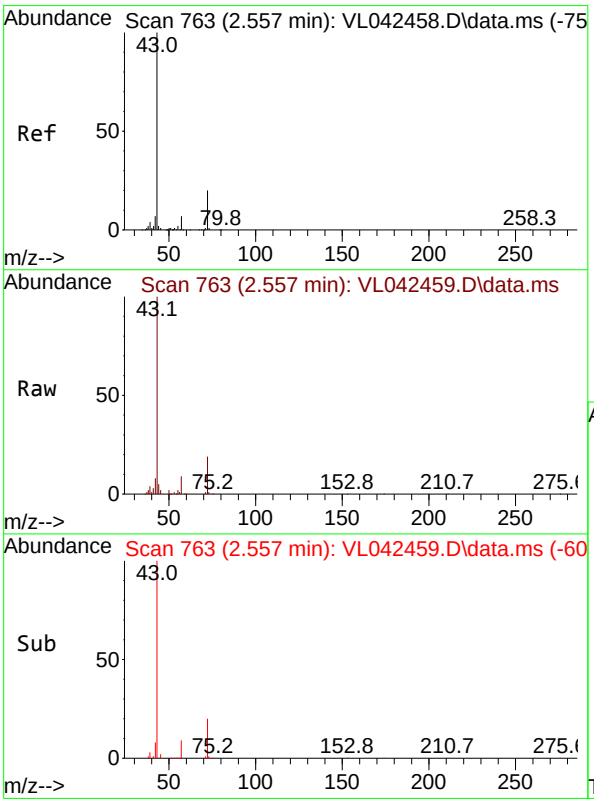
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.955 min Scan# 11
Delta R.T. -0.000 min
Lab File: VL042459.D
Acq: 01 May 2025 09:37

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion:114 Resp: 201951

Ion	Ratio	Lower	Upper
114	100		
63	28.5	23.1	34.7
88	20.2	16.1	24.1

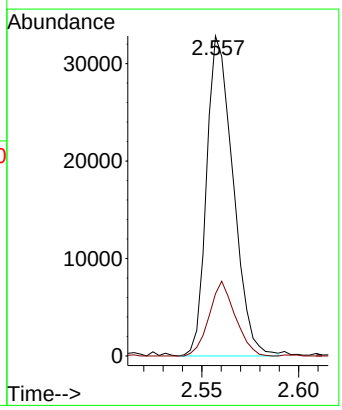


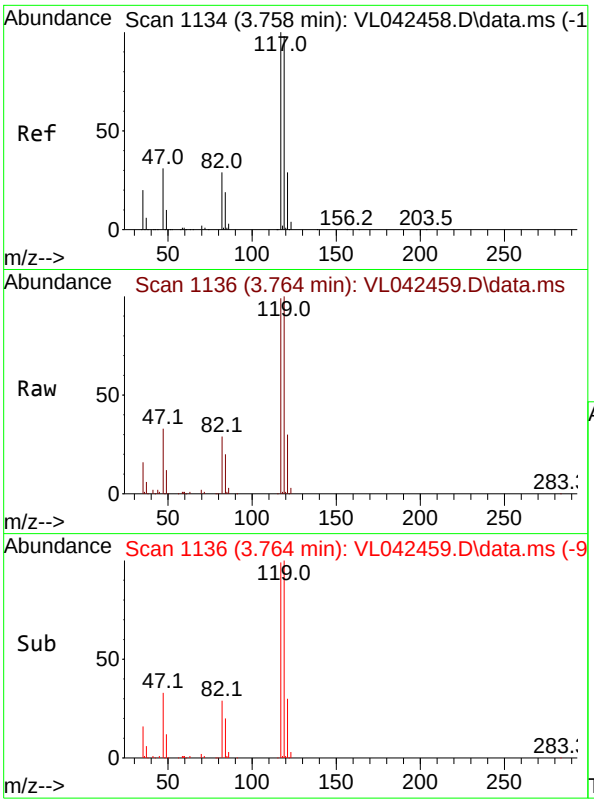


#34
2-Butanone
Concen: 2.139 ppbv
RT: 2.557 min Scan# 763
Delta R.T. -0.000 min
Lab File: VL042459.D
Acq: 01 May 2025 09:37

Tgt Ion: 43 Resp: 31242

Ion	Ratio	Lower	Upper
43	100		
72	23.2	16.7	25.1



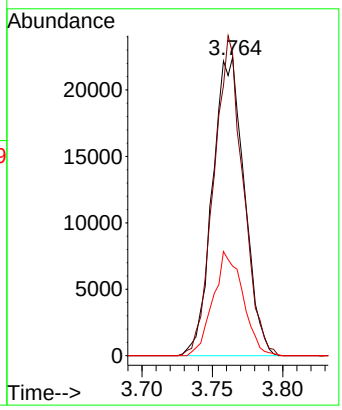


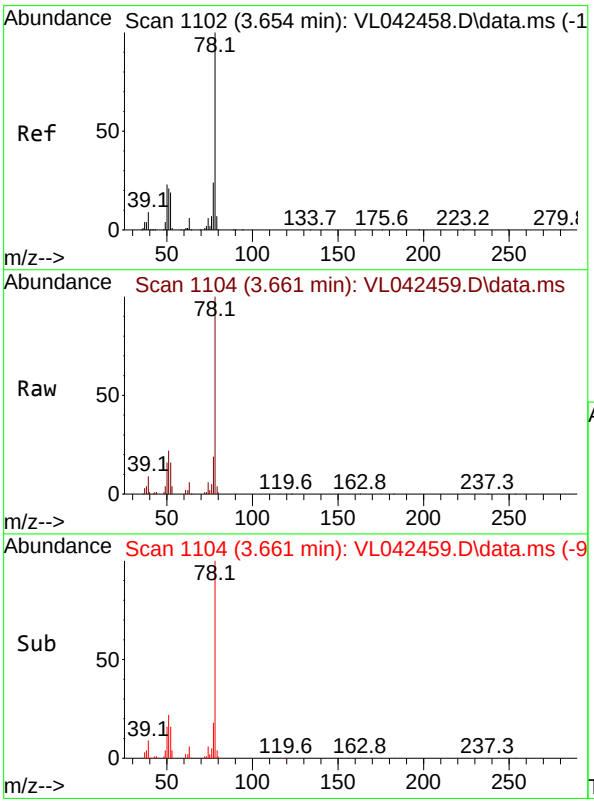
#35
Carbon Tetrachloride
Concen: 2.011 ppbv
RT: 3.764 min Scan# 11
Delta R.T. 0.006 min
Lab File: VL042459.D
Acq: 01 May 2025 09:37

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion:117 Resp: 35326

Ion	Ratio	Lower	Upper
117	100		
119	101.3	78.1	117.1
121	30.0	23.0	34.6

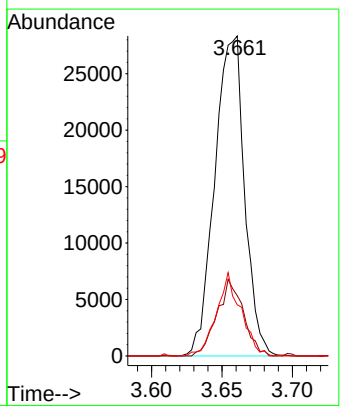


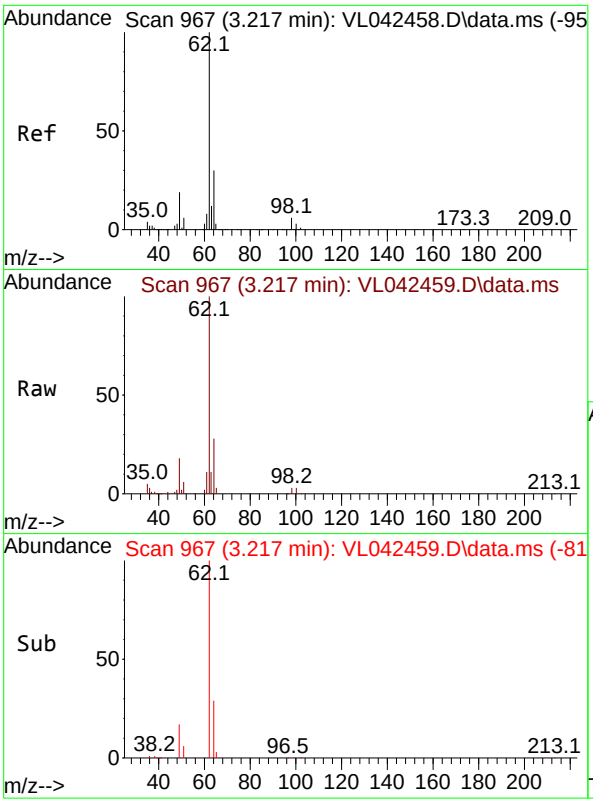


#36
Benzene
Concen: 2.196 ppbv
RT: 3.661 min Scan# 1104
Delta R.T. 0.006 min
Lab File: VL042459.D
Acq: 01 May 2025 09:37

Tgt Ion: 78 Resp: 41848

Ion	Ratio	Lower	Upper
78	100		
77	18.9	18.9	28.3#
50	16.0	18.4	27.6#



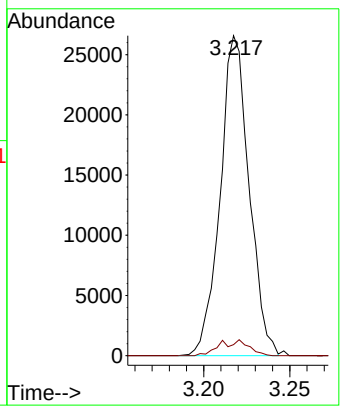


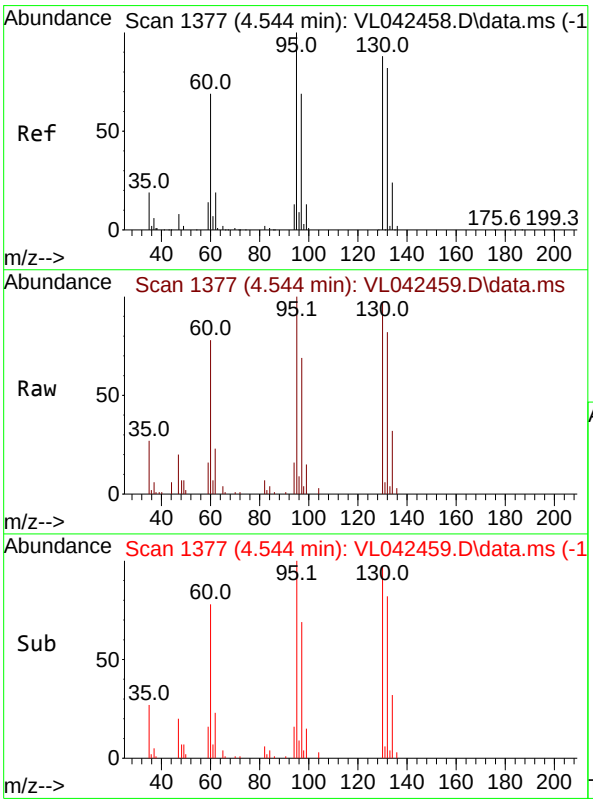
#37
1,2-Dichloroethane
Concen: 2.114 ppbv
RT: 3.217 min Scan# 9
Delta R.T. 0.000 min
Lab File: VL042459.D
Acq: 01 May 2025 09:37

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 62 Resp: 31049

Ion	Ratio	Lower	Upper
62	100		
98	5.0	4.3	6.5

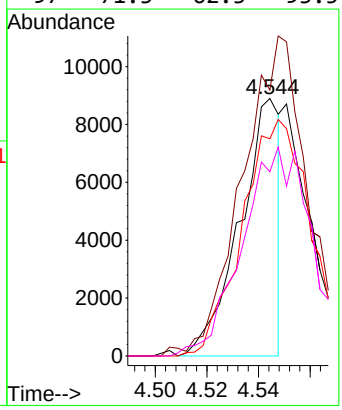


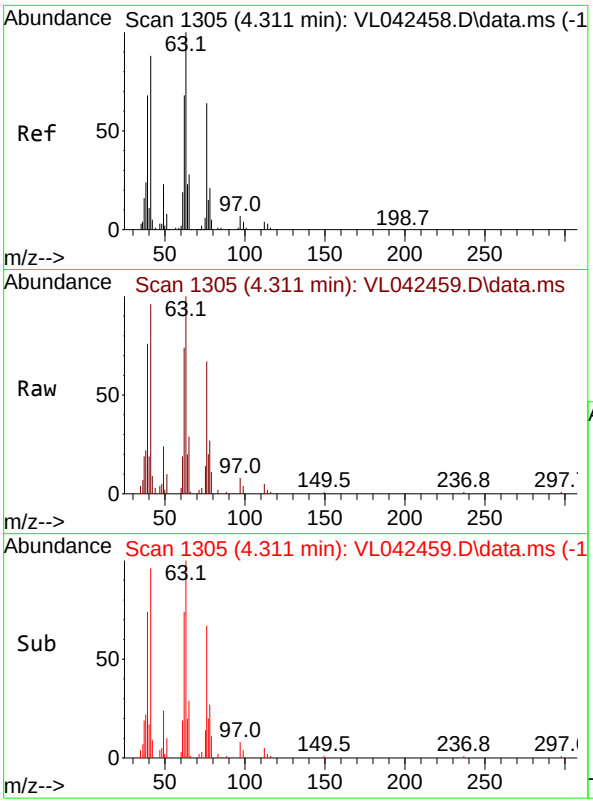


#38
Trichloroethene
Concen: 1.308 ppbv
RT: 4.544 min Scan# 1377
Delta R.T. -0.000 min
Lab File: VL042459.D
Acq: 01 May 2025 09:37

Tgt Ion:130 Resp: 9503

Ion	Ratio	Lower	Upper
130	100		
95	101.7	91.0	136.4
132	85.4	74.2	111.4
97	71.3	62.3	93.5



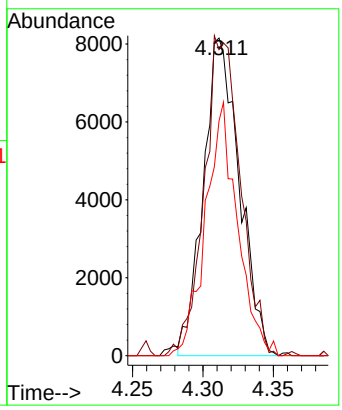


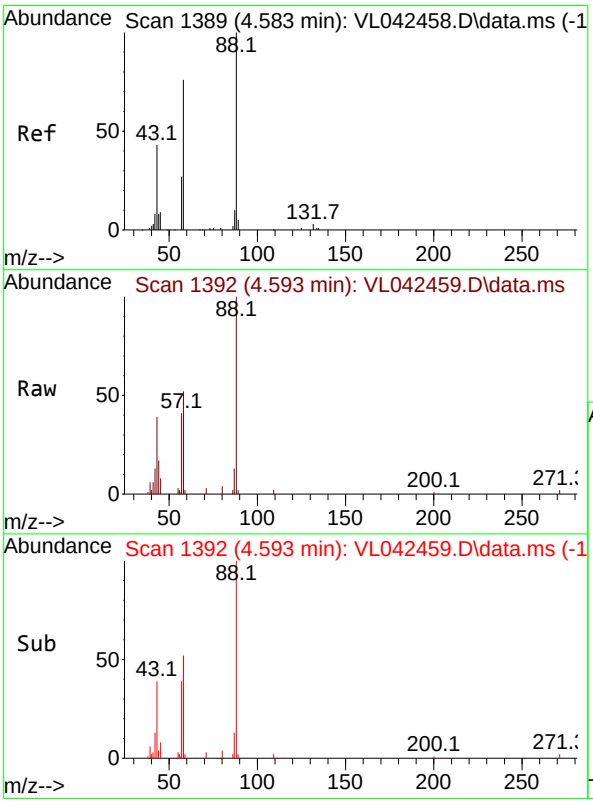
#39
1,2-Dichloropropane
Concen: 2.047 ppbv
RT: 4.311 min Scan# 1
Delta R.T. 0.000 min
Lab File: VL042459.D
Acq: 01 May 2025 09:37

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 63 Resp: 14611

Ion	Ratio	Lower	Upper
63	100		
41	96.4	69.8	104.6
62	73.9	54.3	81.5

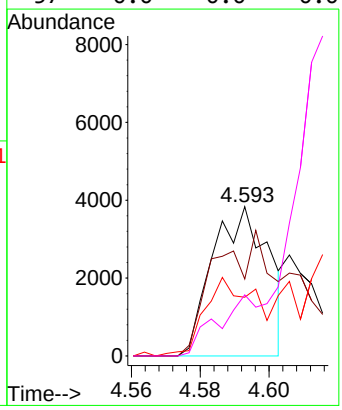


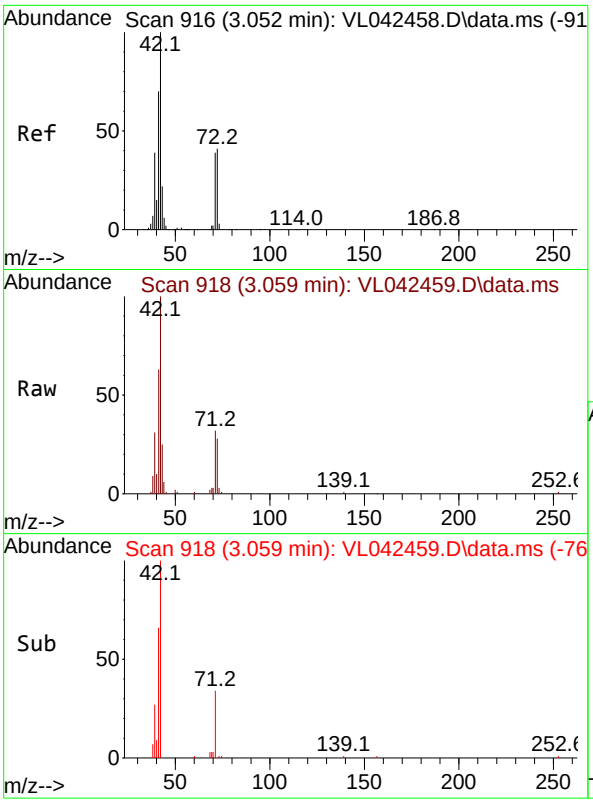


#40
1,4-Dioxane
Concen: 1.299 ppbv
RT: 4.593 min Scan# 1392
Delta R.T. 0.010 min
Lab File: VL042459.D
Acq: 01 May 2025 09:37

Tgt Ion: 88 Resp: 4312

Ion	Ratio	Lower	Upper
88	100		
58	194.1	0.0	0.0#
43	0.0	0.0	0.0
57	0.0	0.0	0.0



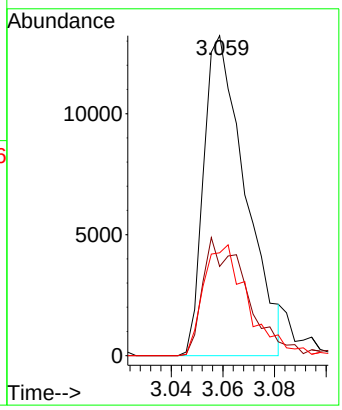


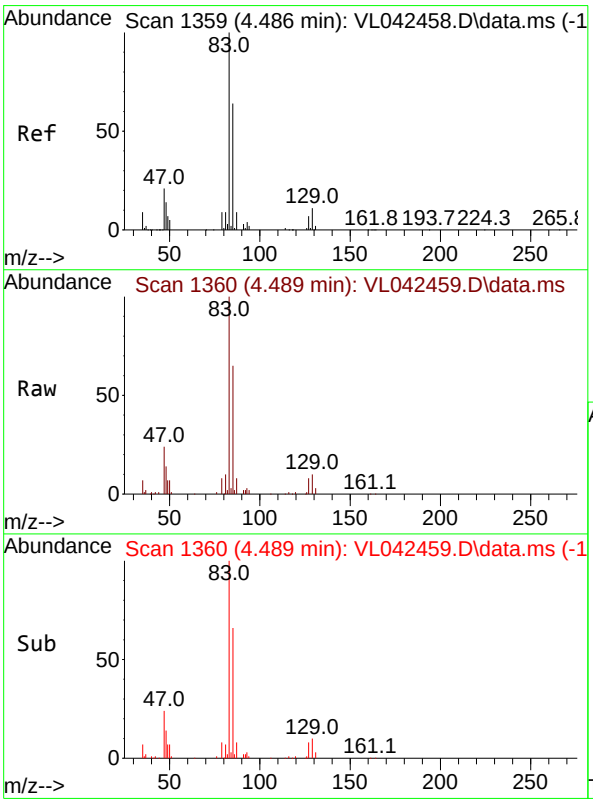
#41
Tetrahydrofuran
Concen: 2.140 ppbv
RT: 3.059 min Scan# 91
Delta R.T. 0.006 min
Lab File: VL042459.D
Acq: 01 May 2025 09:37

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 42 Resp: 14824

Ion	Ratio	Lower	Upper
42	100		
72	39.3	33.5	50.3
71	37.5	32.6	49.0

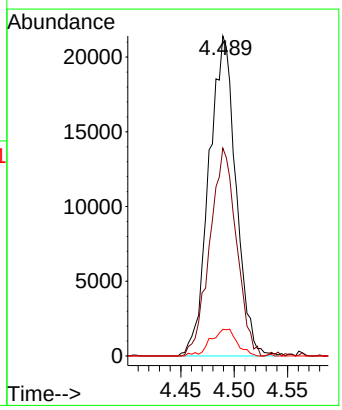


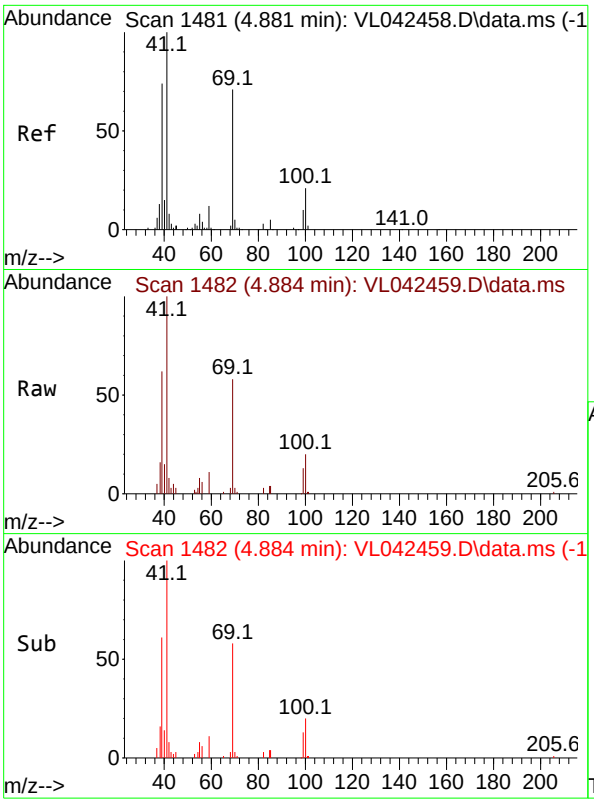


#42
Bromodichloromethane
Concen: 2.096 ppbv
RT: 4.489 min Scan# 1360
Delta R.T. 0.003 min
Lab File: VL042459.D
Acq: 01 May 2025 09:37

Tgt Ion: 83 Resp: 37615

Ion	Ratio	Lower	Upper
83	100		
85	64.9	51.5	77.3
127	8.3	5.4	8.2#



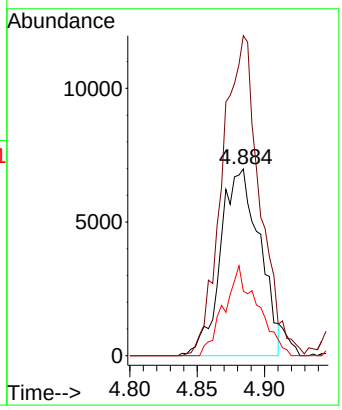


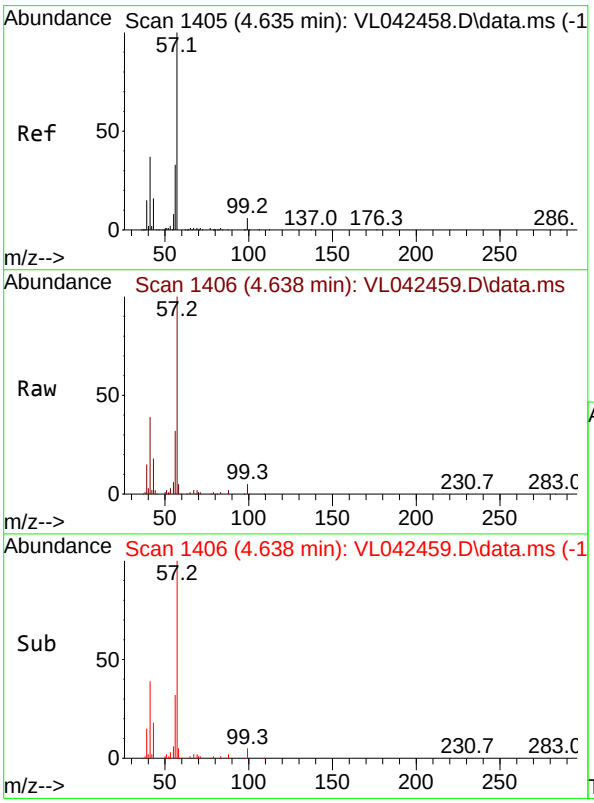
#43
Methyl Methacrylate
Concen: 1.989 ppbv
RT: 4.884 min Scan# 14
Delta R.T. 0.003 min
Lab File: VL042459.D
Acq: 01 May 2025 09:37

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 69 Resp: 14111

Ion	Ratio	Lower	Upper
69	100		
41	166.0	120.8	181.2
100	41.4	26.7	40.1#

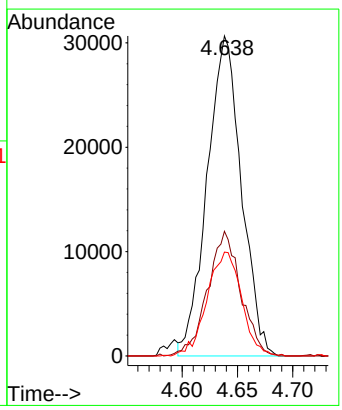


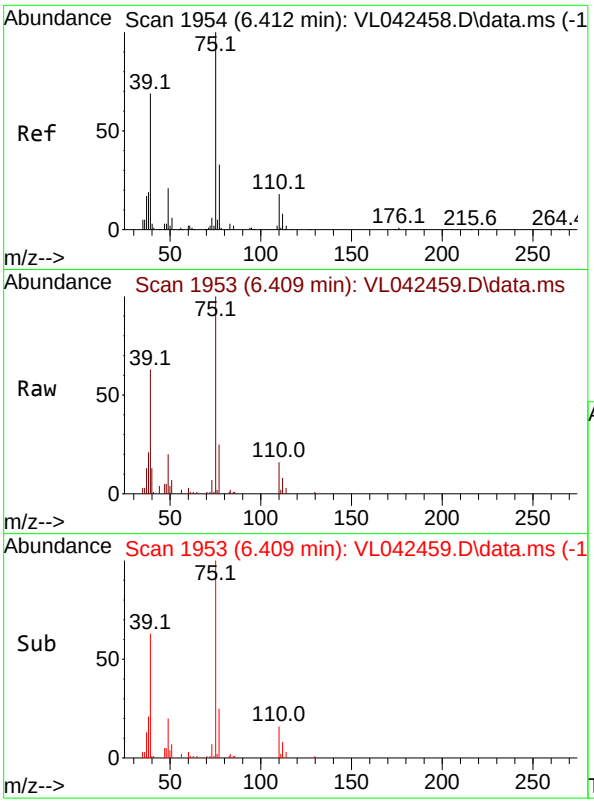


#44
2,2,4-Trimethylpentane
Concen: 2.142 ppbv
RT: 4.638 min Scan# 1406
Delta R.T. 0.003 min
Lab File: VL042459.D
Acq: 01 May 2025 09:37

Tgt Ion: 57 Resp: 65967

Ion	Ratio	Lower	Upper
57	100		
41	37.8	30.6	45.8
56	32.7	25.0	37.6



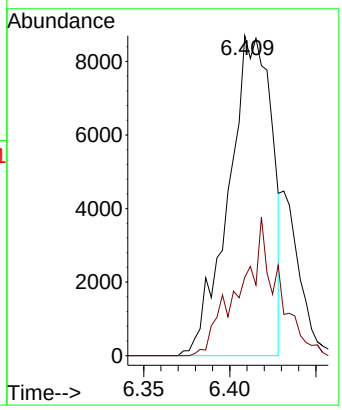


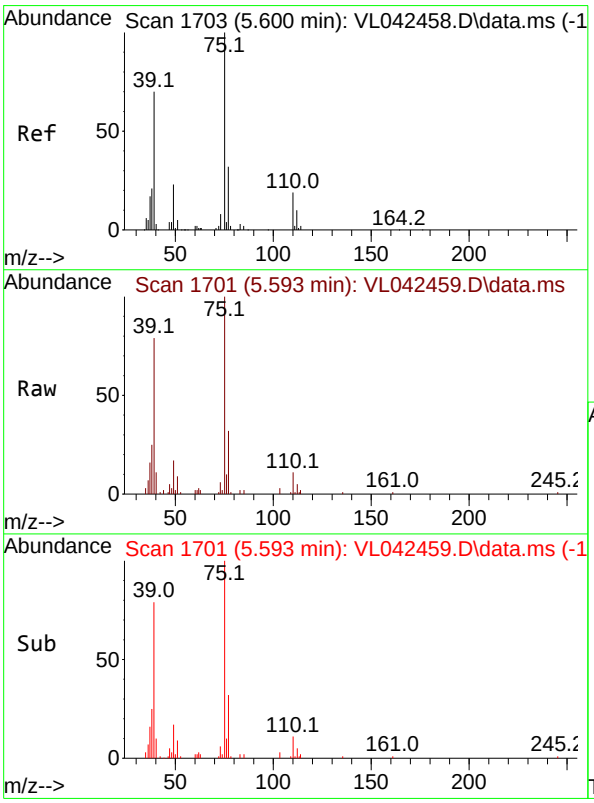
#45
t-1,3-Dichloropropene
Concen: 1.632 ppbv
RT: 6.409 min Scan# 1
Delta R.T. -0.003 min
Lab File: VL042459.D
Acq: 01 May 2025 09:37

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 75 Resp: 15248

Ion	Ratio	Lower	Upper
75	100		
77	24.5	26.3	39.5#

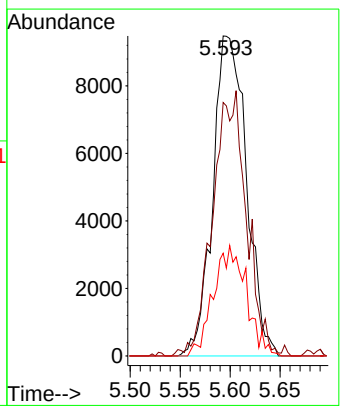


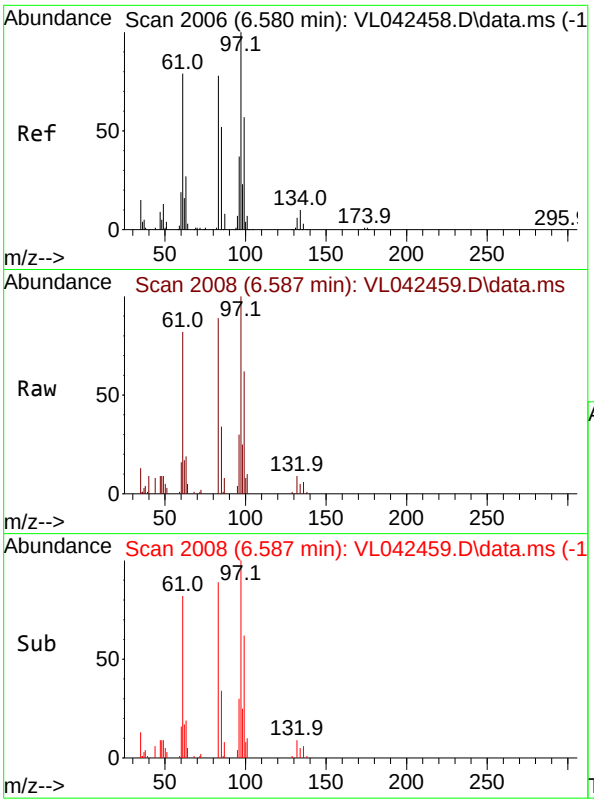


#46
cis-1,3-Dichloropropene
Concen: 2.000 ppbv
RT: 5.593 min Scan# 1701
Delta R.T. -0.006 min
Lab File: VL042459.D
Acq: 01 May 2025 09:37

Tgt Ion: 75 Resp: 22184

Ion	Ratio	Lower	Upper
75	100		
39	78.3	55.7	83.5
77	32.1	25.8	38.8



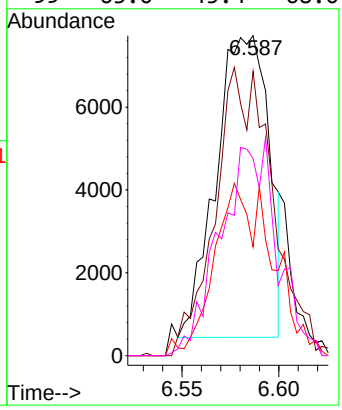


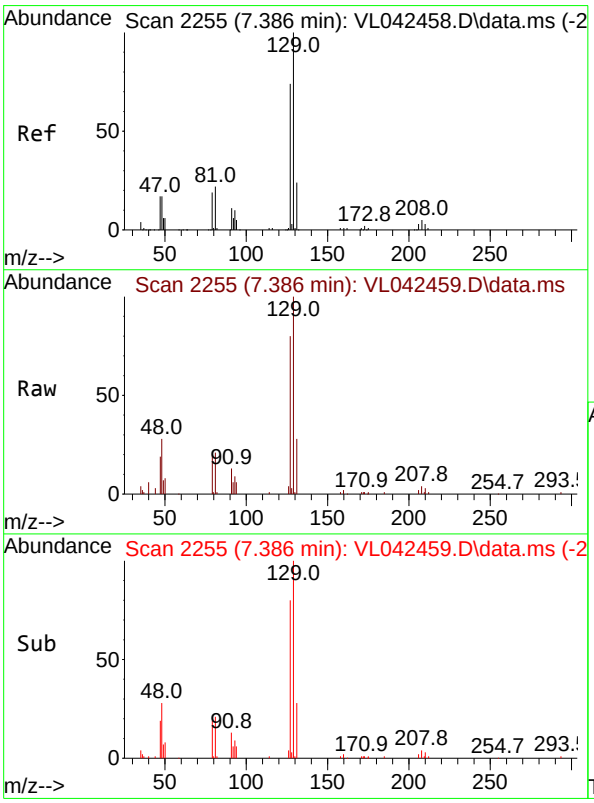
#47
1,1,2-Trichloroethane
Concen: 1.771 ppbv
RT: 6.587 min Scan# 2
Delta R.T. 0.006 min
Lab File: VL042459.D
Acq: 01 May 2025 09:37

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 97 Resp: 13861

Ion	Ratio	Lower	Upper
97	100		
83	88.0	62.2	93.2
85	33.5	41.5	62.3#
99	63.0	45.4	68.0

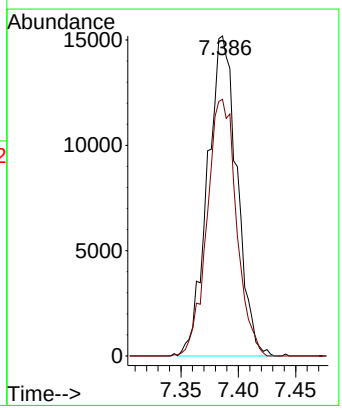


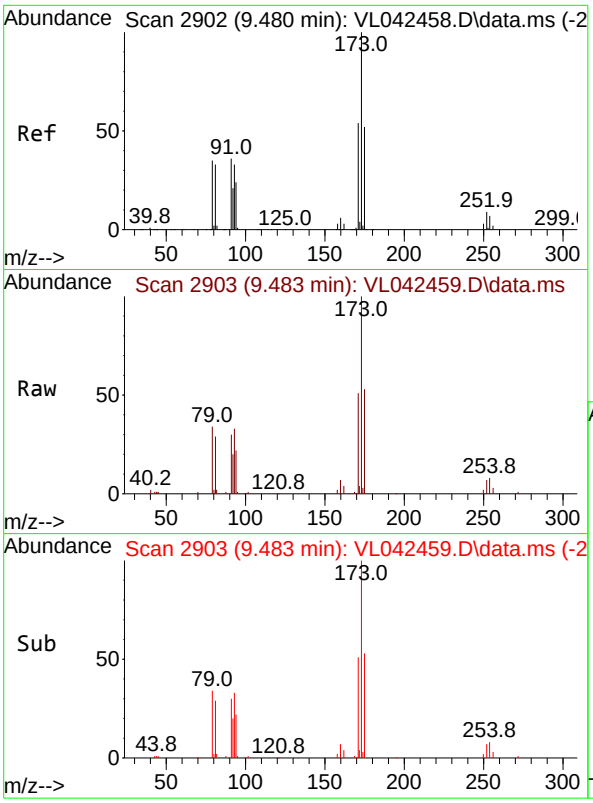


#48
Dibromochloromethane
Concen: 2.057 ppbv
RT: 7.386 min Scan# 2255
Delta R.T. -0.000 min
Lab File: VL042459.D
Acq: 01 May 2025 09:37

Tgt Ion:129 Resp: 27174

Ion	Ratio	Lower	Upper
129	100		
127	80.0	39.5	118.5



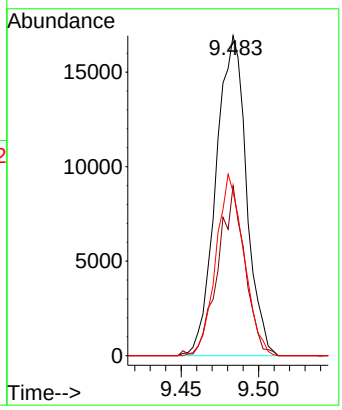


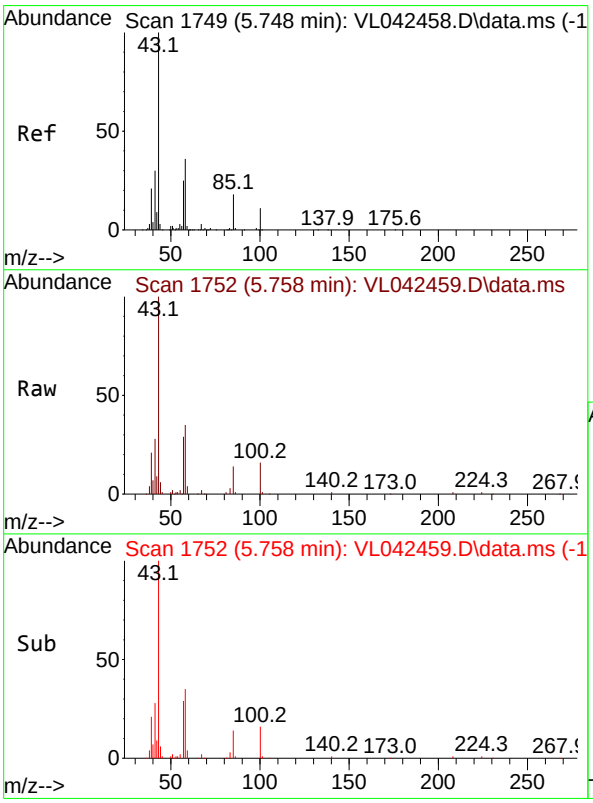
#49
Bromoform
Concen: 2.088 ppbv
RT: 9.483 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042459.D
Acq: 01 May 2025 09:37

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion:173 Resp: 23126

Ion	Ratio	Lower	Upper
173	100		
175	47.0	38.9	58.3
171	52.0	40.6	60.8

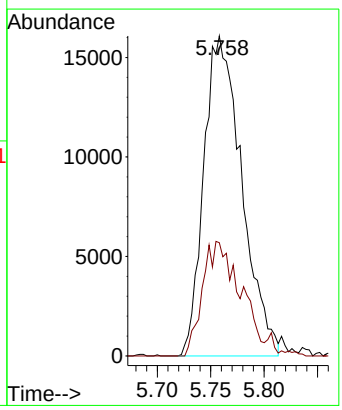


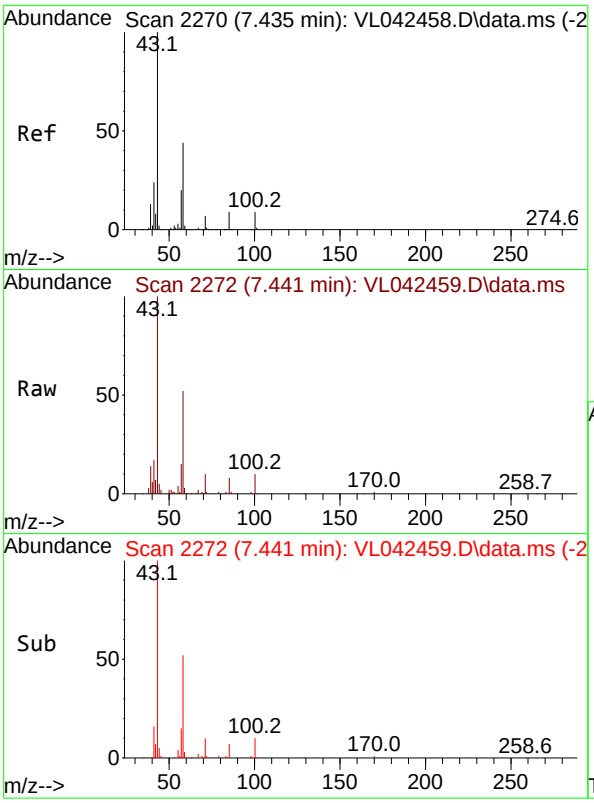


#50
4-Methyl-2-Pentanone
Concen: 2.155 ppbv
RT: 5.758 min Scan# 1752
Delta R.T. 0.010 min
Lab File: VL042459.D
Acq: 01 May 2025 09:37

Tgt Ion: 43 Resp: 39798

Ion	Ratio	Lower	Upper
43	100		
58	37.3	29.5	44.3



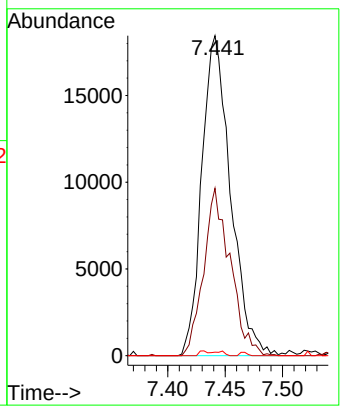


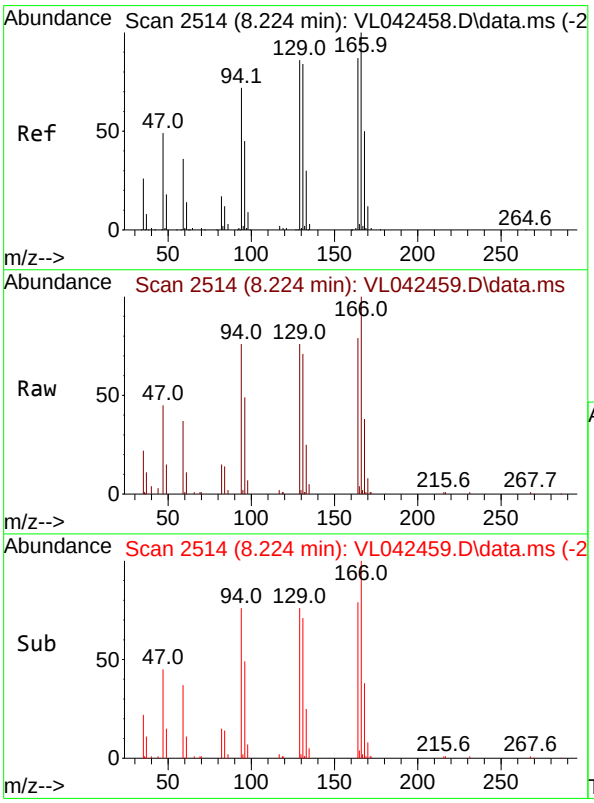
#51
2-Hexanone
Concen: 2.177 ppbv
RT: 7.441 min Scan# 2
Delta R.T. 0.006 min
Lab File: VL042459.D
Acq: 01 May 2025 09:37

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 43 Resp: 32196

Ion	Ratio	Lower	Upper
43	100		
58	48.3	37.2	55.8
98	1.3	0.4	0.6#

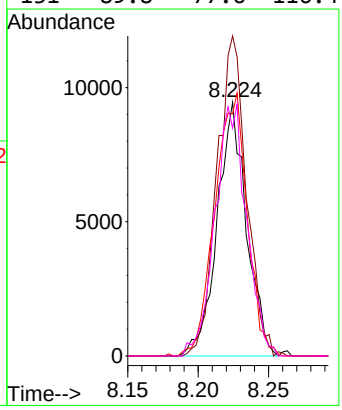


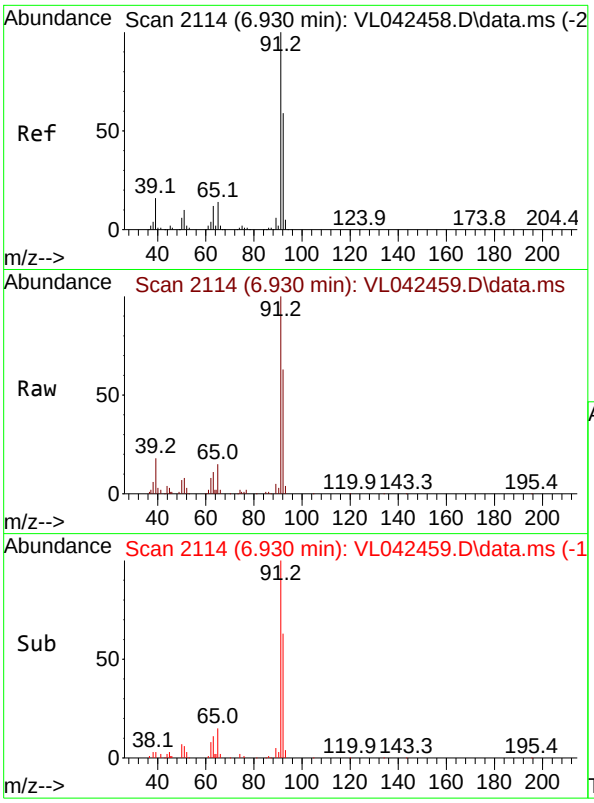


#52
Tetrachloroethene
Concen: 1.885 ppbv
RT: 8.224 min Scan# 2514
Delta R.T. -0.000 min
Lab File: VL042459.D
Acq: 01 May 2025 09:37

Tgt Ion:164 Resp: 13670

Ion	Ratio	Lower	Upper
164	100		
166	126.2	91.6	137.4
129	95.4	79.0	118.4
131	89.8	77.6	116.4



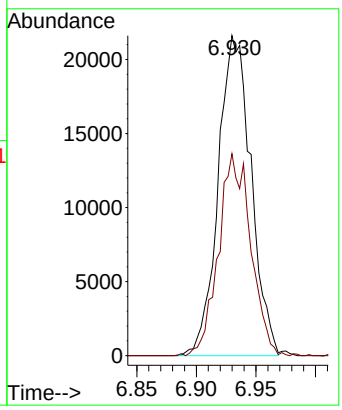


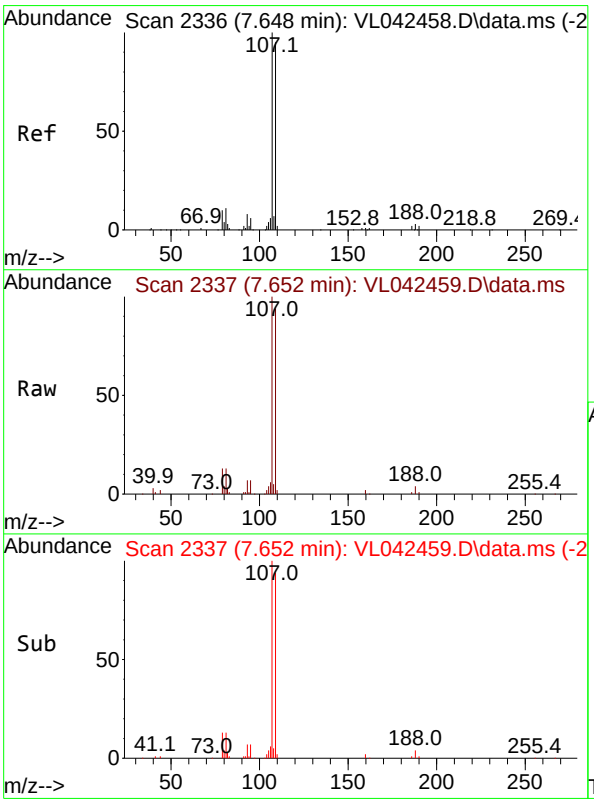
#53
Toluene
Concen: 2.052 ppbv
RT: 6.930 min Scan# 21
Delta R.T. -0.000 min
Lab File: VL042459.D
Acq: 01 May 2025 09:37

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 91 Resp: 41392

Ion	Ratio	Lower	Upper
91	100		
92	61.9	47.9	71.9

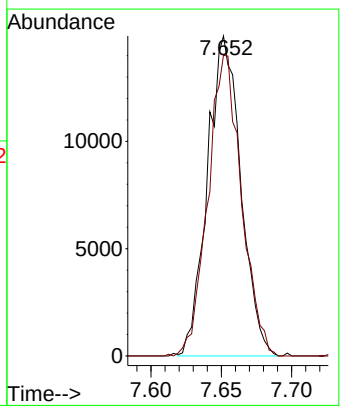


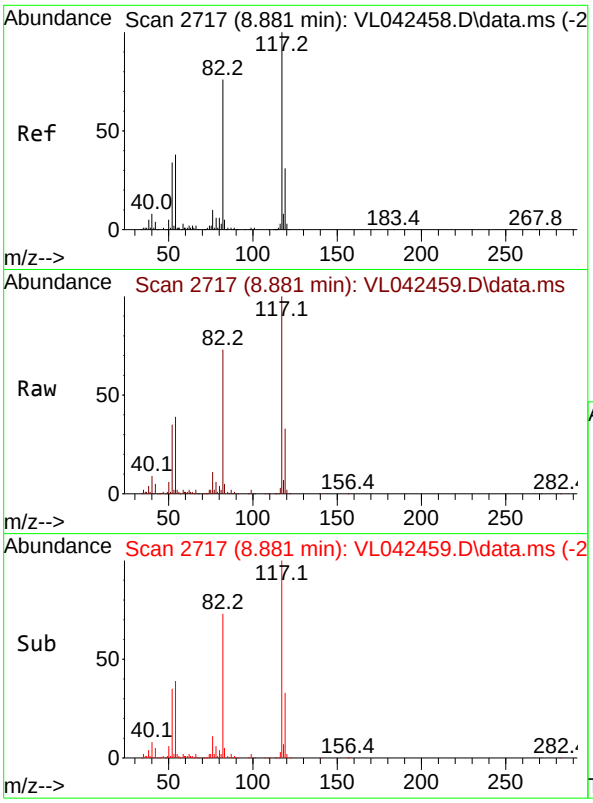


#54
1,2-Dibromoethane
Concen: 2.049 ppbv
RT: 7.652 min Scan# 2337
Delta R.T. 0.003 min
Lab File: VL042459.D
Acq: 01 May 2025 09:37

Tgt Ion:107 Resp: 24650

Ion	Ratio	Lower	Upper
107	100		
109	94.0	76.0	114.0



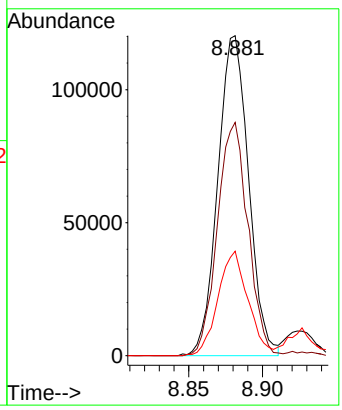


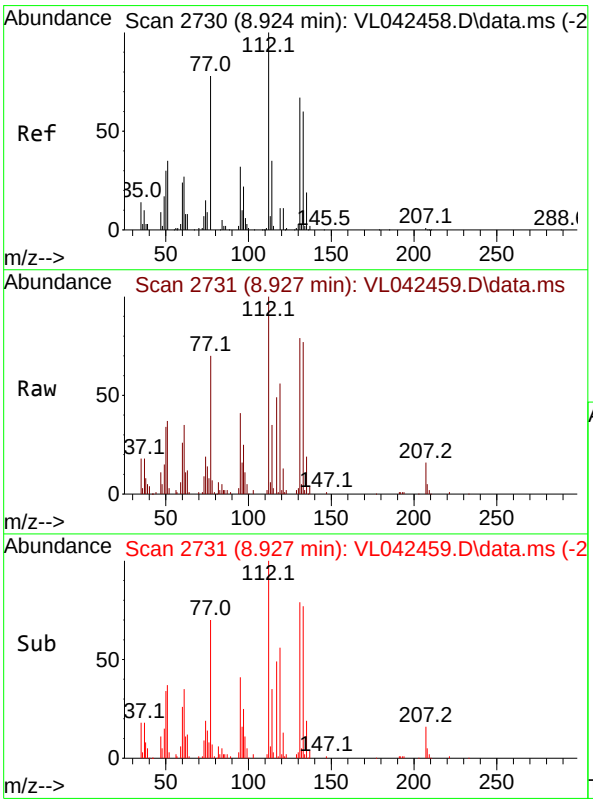
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.881 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042459.D
Acq: 01 May 2025 09:37

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion:117 Resp: 174624

Ion	Ratio	Lower	Upper
117	100		
82	73.4	63.5	95.3
119	31.9	25.8	38.8

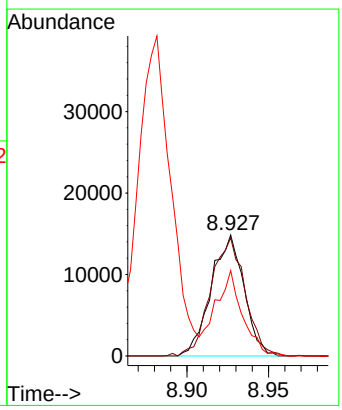


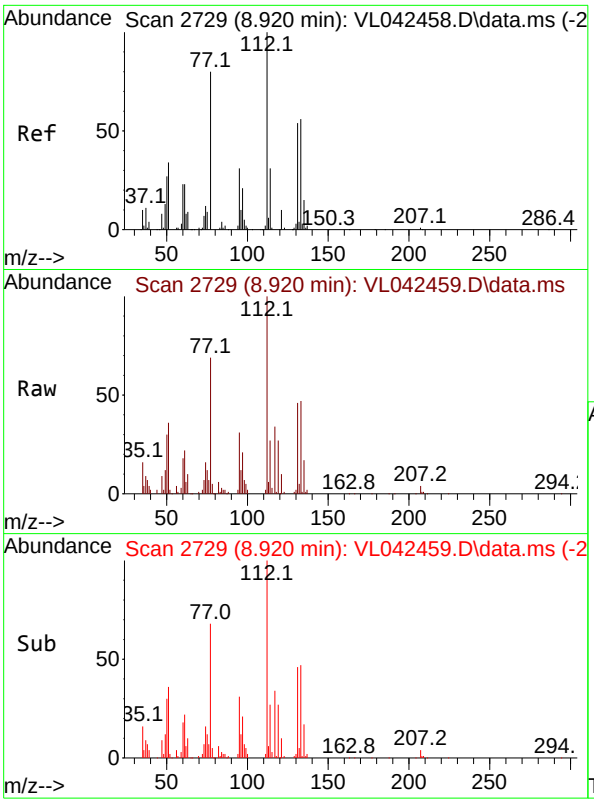


#56
1,1,1,2-Tetrachloroethane
Concen: 2.019 ppbv
RT: 8.927 min Scan# 2731
Delta R.T. 0.003 min
Lab File: VL042459.D
Acq: 01 May 2025 09:37

Tgt Ion:131 Resp: 20822

Ion	Ratio	Lower	Upper
131	100		
133	101.8	76.0	114.0
119	55.4	46.1	69.1



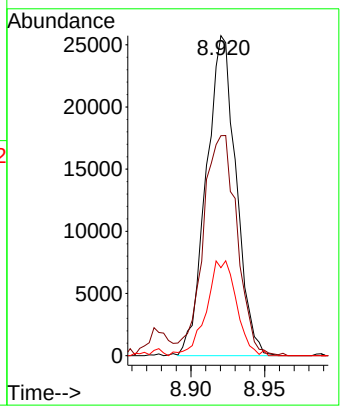


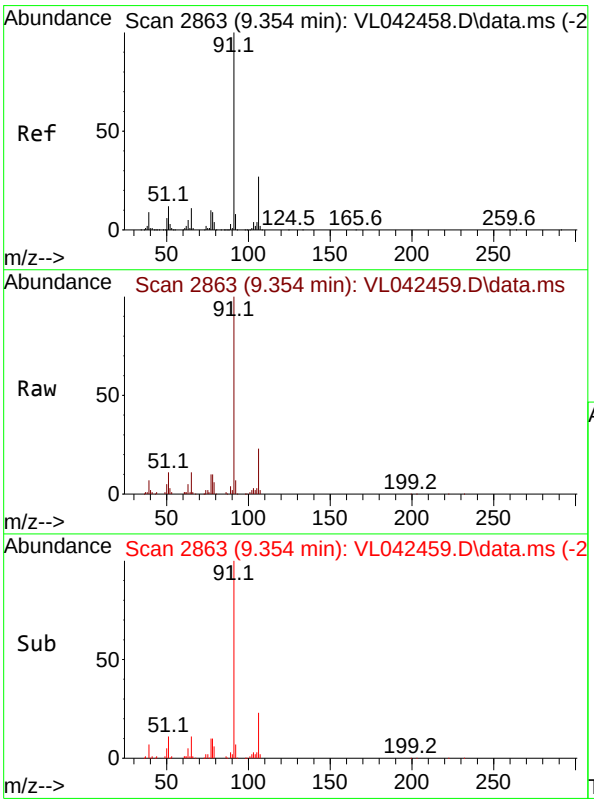
#57
Chlorobenzene
Concen: 2.062 ppbv
RT: 8.920 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL042459.D
Acq: 01 May 2025 09:37

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion:112 Resp: 36187

Ion	Ratio	Lower	Upper
112	100		
77	68.5	65.0	97.4
114	27.5	27.5	33.7#

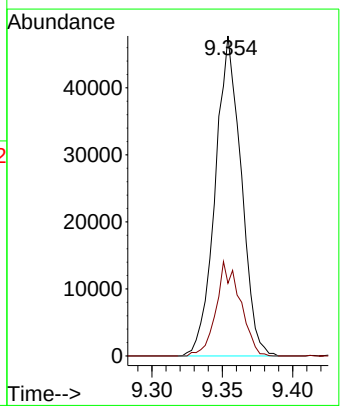


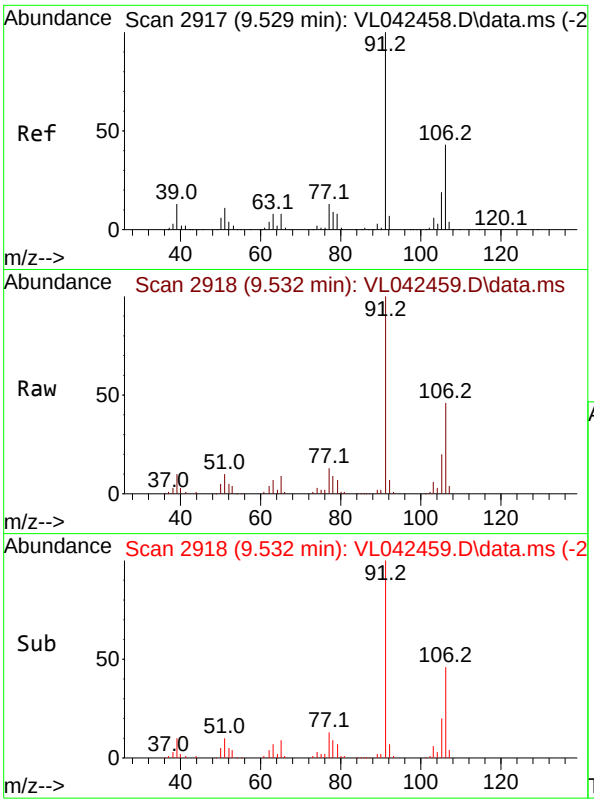


#58
Ethyl Benzene
Concen: 2.096 ppbv
RT: 9.354 min Scan# 2863
Delta R.T. -0.000 min
Lab File: VL042459.D
Acq: 01 May 2025 09:37

Tgt Ion: 91 Resp: 61177

Ion	Ratio	Lower	Upper
91	100		
106	22.7	21.9	32.9



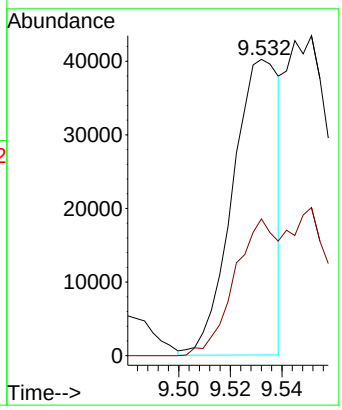


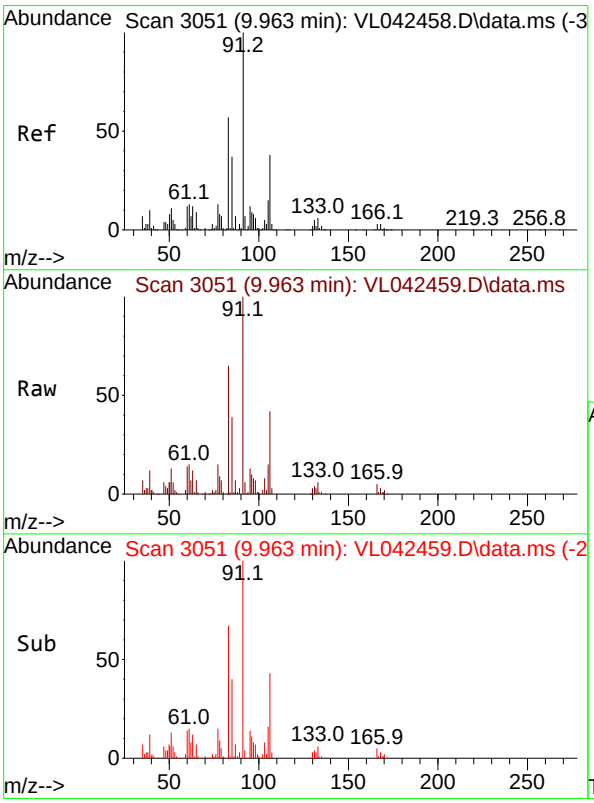
#59
m/p-Xylene
Concen: 2.041 ppbv
RT: 9.532 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042459.D
Acq: 01 May 2025 09:37

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 91 Resp: 49942

Ion	Ratio	Lower	Upper
91	100		
106	0.0	34.2	51.2#

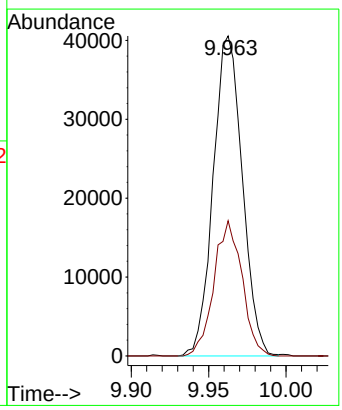


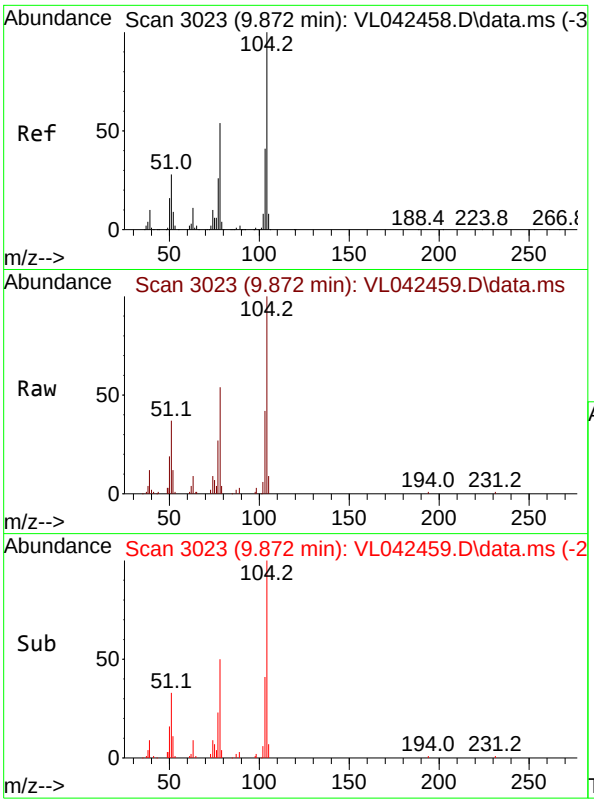


#60
o-Xylene
Concen: 2.169 ppbv
RT: 9.963 min Scan# 3051
Delta R.T. -0.000 min
Lab File: VL042459.D
Acq: 01 May 2025 09:37

Tgt Ion: 91 Resp: 53051

Ion	Ratio	Lower	Upper
91	100		
106	40.7	20.1	60.2



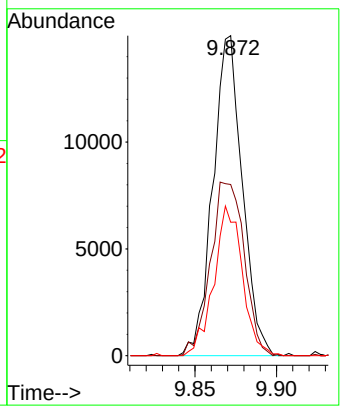


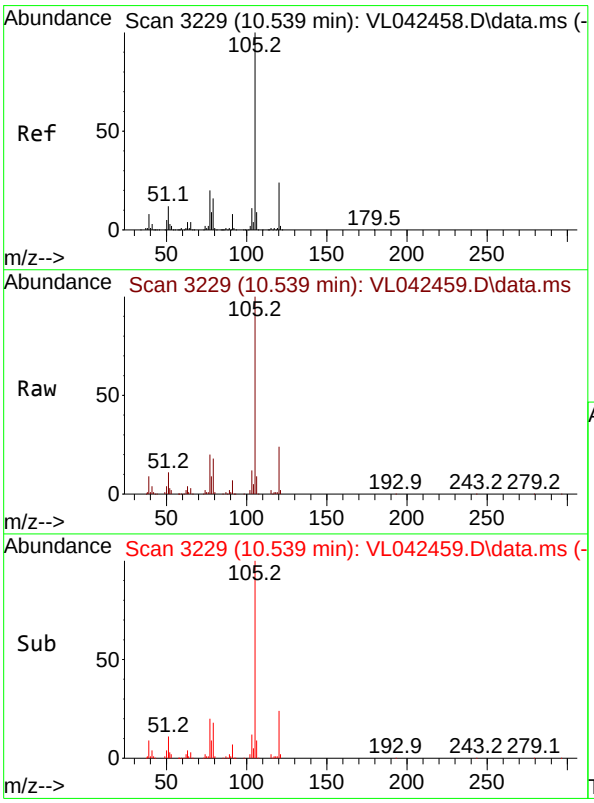
#61
Styrene
Concen: 2.054 ppbv
RT: 9.872 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042459.D
Acq: 01 May 2025 09:37

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion:104 Resp: 18776

Ion	Ratio	Lower	Upper
104	100		
78	62.1	46.9	70.3
103	45.4	36.6	55.0

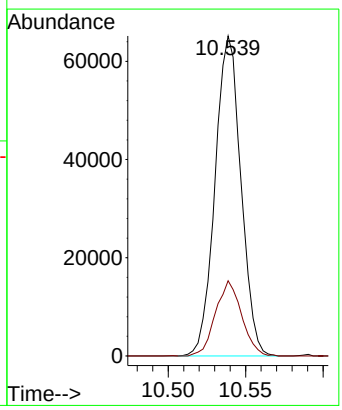


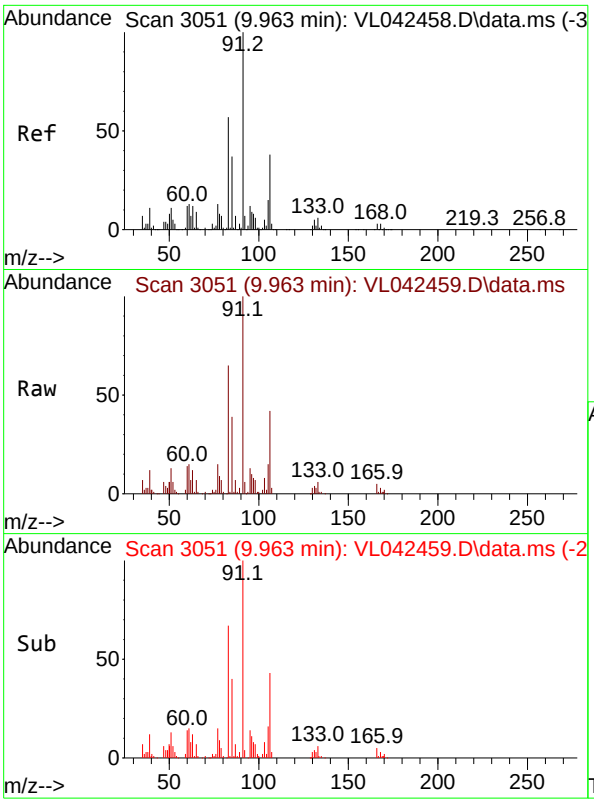


#62
Isopropylbenzene
Concen: 2.140 ppbv
RT: 10.539 min Scan# 3229
Delta R.T. -0.000 min
Lab File: VL042459.D
Acq: 01 May 2025 09:37

Tgt Ion:105 Resp: 75626

Ion	Ratio	Lower	Upper
105	100		
120	23.8	18.8	28.2



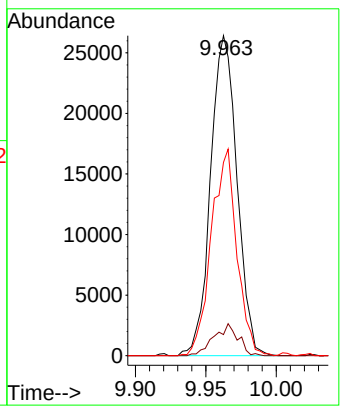


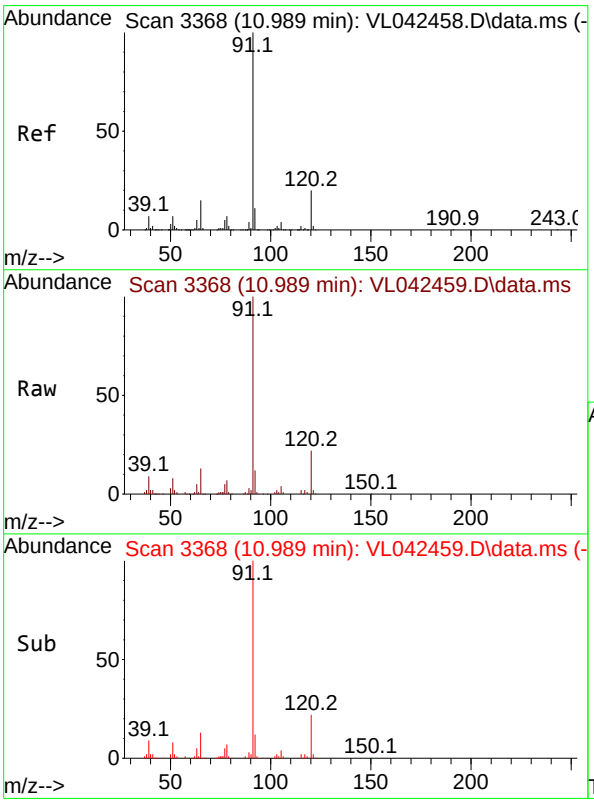
#63
1,1,2,2-Tetrachloroethane
Concen: 2.178 ppbv
RT: 9.963 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042459.D
Acq: 01 May 2025 09:37

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 83 Resp: 34562

Ion	Ratio	Lower	Upper
83	100		
131	9.2	4.7	14.1
85	62.8	32.5	97.4

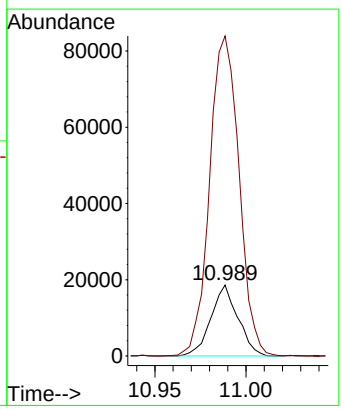


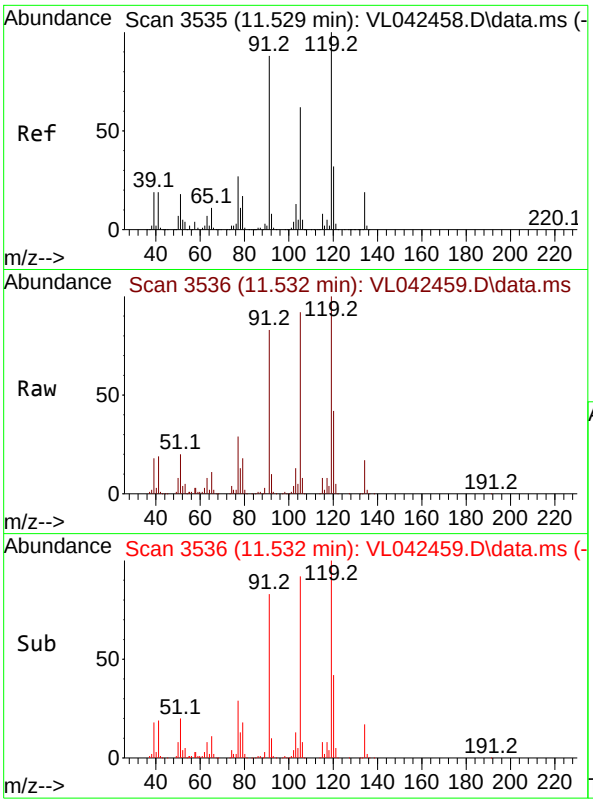


#64
n-propylbenzene
Concen: 2.226 ppbv
RT: 10.989 min Scan# 3368
Delta R.T. 0.000 min
Lab File: VL042459.D
Acq: 01 May 2025 09:37

Tgt Ion:120 Resp: 19160

Ion	Ratio	Lower	Upper
120	100		
91	493.2	408.6	612.8



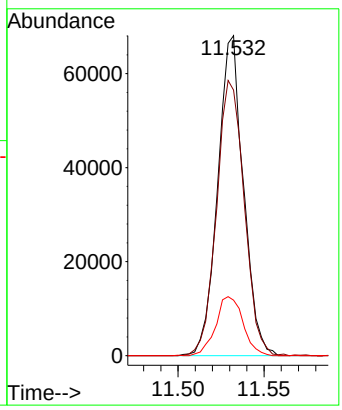


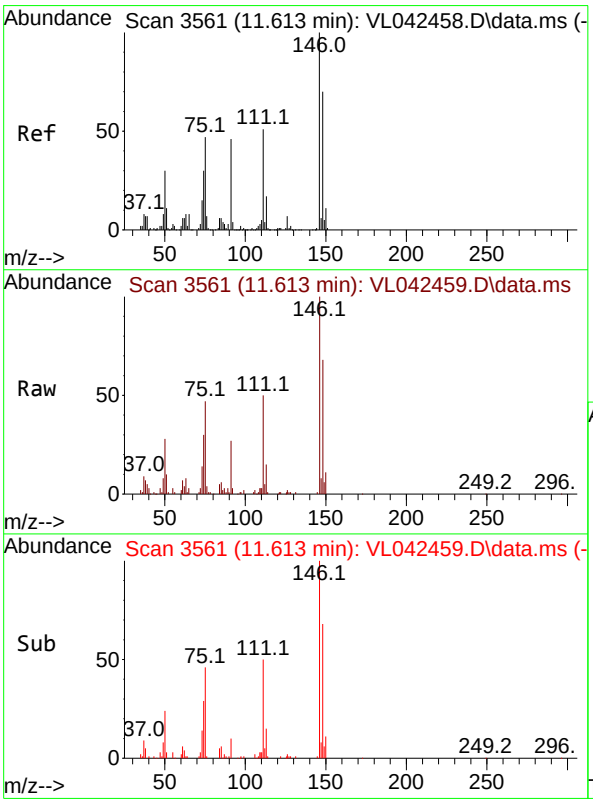
#65
tert-Butylbenzene
Concen: 2.246 ppbv
RT: 11.532 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042459.D
Acq: 01 May 2025 09:37

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion:119 Resp: 70813

Ion	Ratio	Lower	Upper
119	100		
91	92.3	71.6	107.4
134	19.6	15.0	22.4

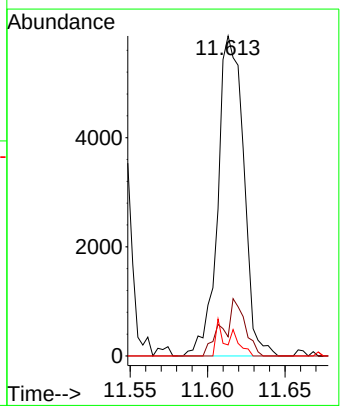


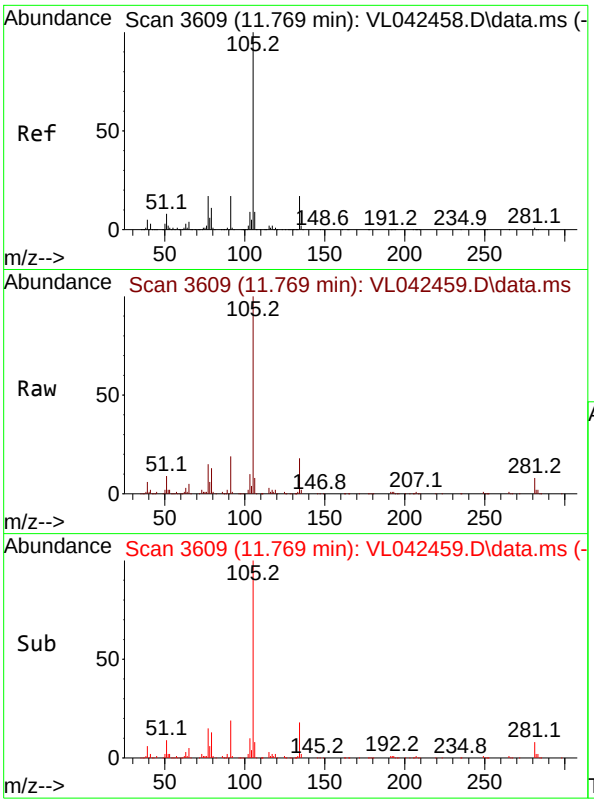


#66
Benzyl Chloride
Concen: 1.864 ppbv
RT: 11.613 min Scan# 3561
Delta R.T. -0.000 min
Lab File: VL042459.D
Acq: 01 May 2025 09:37

Tgt Ion: 91 Resp: 6794

Ion	Ratio	Lower	Upper
91	100		
126	15.1	13.3	19.9
128	6.0	4.2	6.4



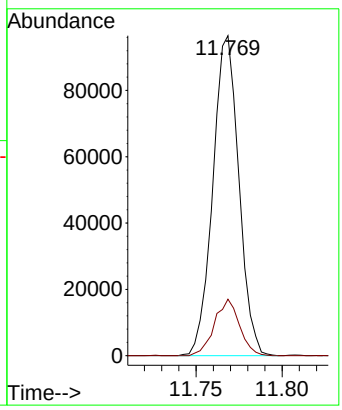


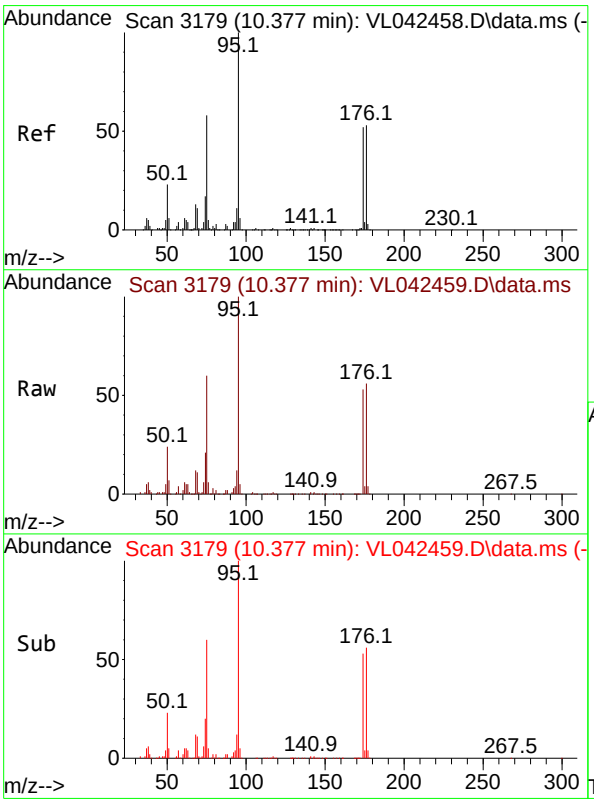
#67
sec-Butylbenzene
Concen: 2.264 ppbv
RT: 11.769 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042459.D
Acq: 01 May 2025 09:37

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion:105 Resp: 101458

Ion	Ratio	Lower	Upper
105	100		
134	17.0	14.1	21.1

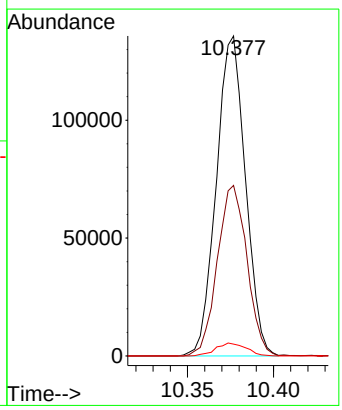


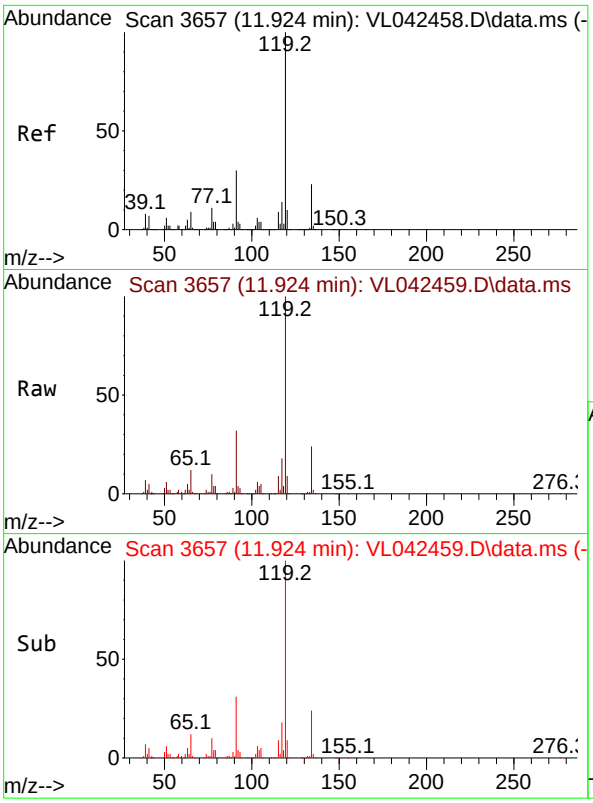


#68
1-Bromo-4-Fluorobenzene
Concen: 9.869 ppbv
RT: 10.377 min Scan# 3179
Delta R.T. -0.000 min
Lab File: VL042459.D
Acq: 01 May 2025 09:37

Tgt Ion: 95 Resp: 159777

Ion	Ratio	Lower	Upper
95	100		
174	54.3	42.7	64.1
175	4.2	3.6	5.4



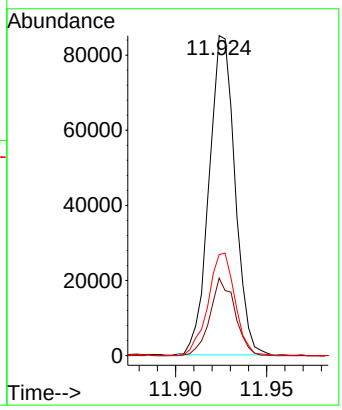


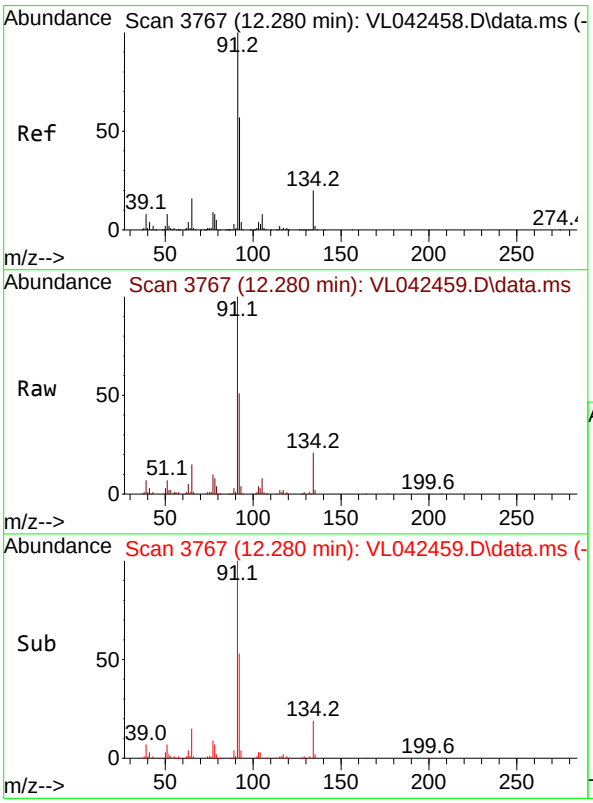
#69
p-Isopropyltoluene
Concen: 2.226 ppbv
RT: 11.924 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042459.D
Acq: 01 May 2025 09:37

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion:119 Resp: 84026

Ion	Ratio	Lower	Upper
119	100		
134	23.5	19.0	28.4
91	33.8	25.5	38.3

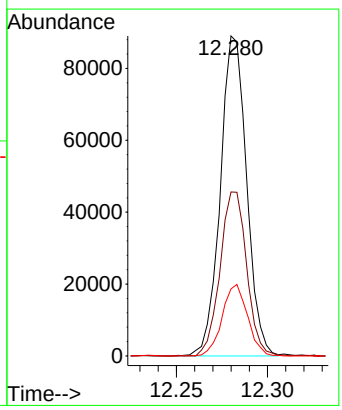


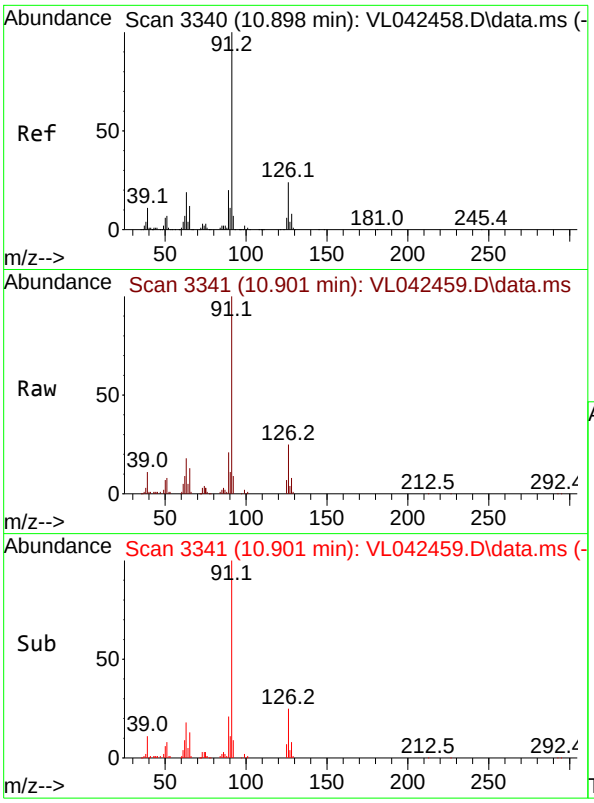


#70
n-Butylbenzene
Concen: 2.291 ppbv
RT: 12.280 min Scan# 3767
Delta R.T. -0.000 min
Lab File: VL042459.D
Acq: 01 May 2025 09:37

Tgt Ion: 91 Resp: 89400

Ion	Ratio	Lower	Upper
91	100		
92	52.0	44.0	66.0
134	21.7	16.8	25.2



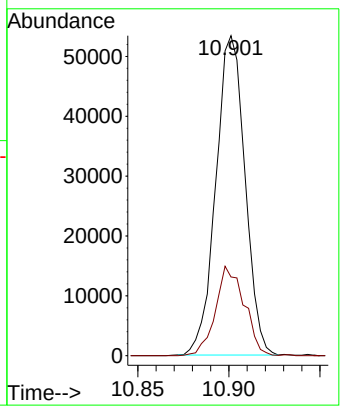


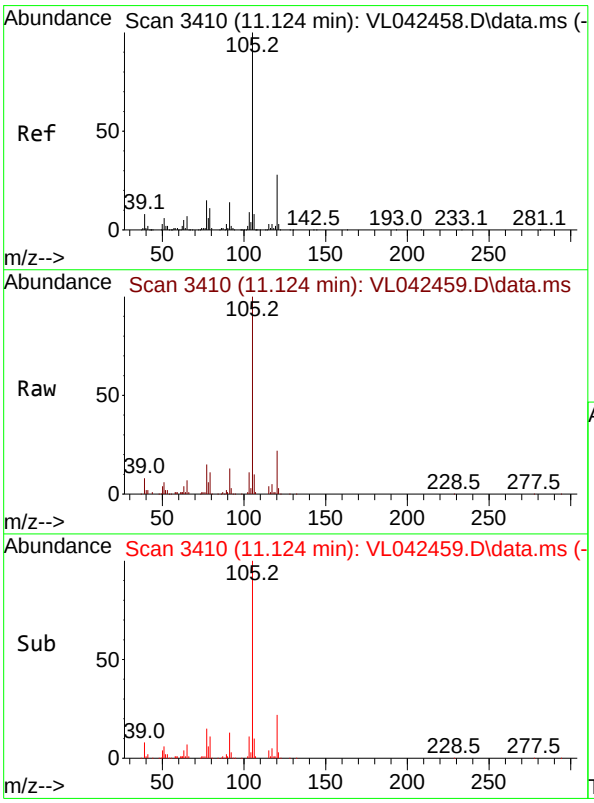
#71
2-Chlorotoluene
Concen: 2.139 ppbv
RT: 10.901 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042459.D
Acq: 01 May 2025 09:37

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 91 Resp: 59271

Ion	Ratio	Lower	Upper
91	100		
126	27.8	10.6	42.2

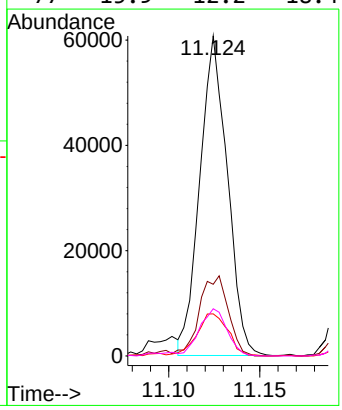


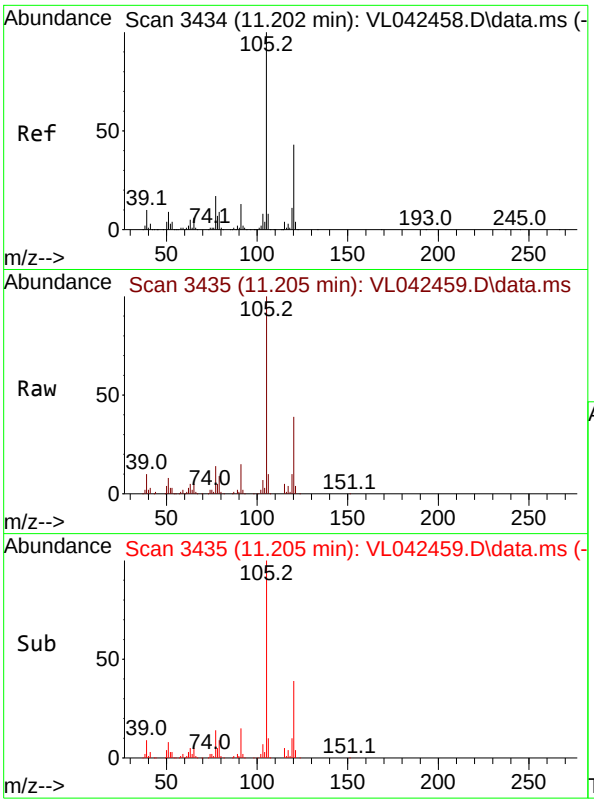


#72
4-Ethyltoluene
Concen: 2.210 ppbv
RT: 11.124 min Scan# 3410
Delta R.T. -0.000 min
Lab File: VL042459.D
Acq: 01 May 2025 09:37

Tgt Ion:105 Resp: 63833

Ion	Ratio	Lower	Upper
105	100		
120	27.6	22.0	33.0
91	15.7	11.2	16.8
77	15.9	12.2	18.4



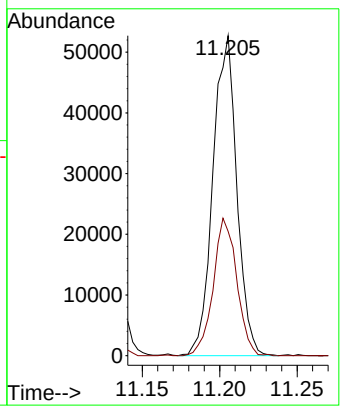


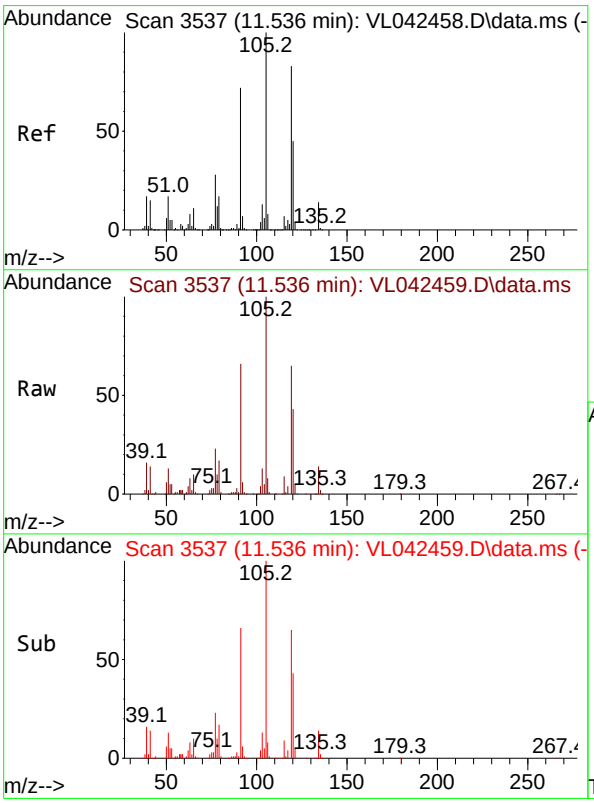
#73
1,3,5-Trimethylbenzene
Concen: 2.225 ppbv
RT: 11.205 min Scan# 34
Delta R.T. 0.003 min
Lab File: VL042459.D
Acq: 01 May 2025 09:37

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion:105 Resp: 56516

Ion	Ratio	Lower	Upper
105	100		
120	38.9	34.4	51.6

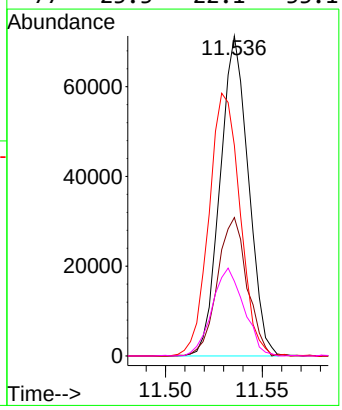


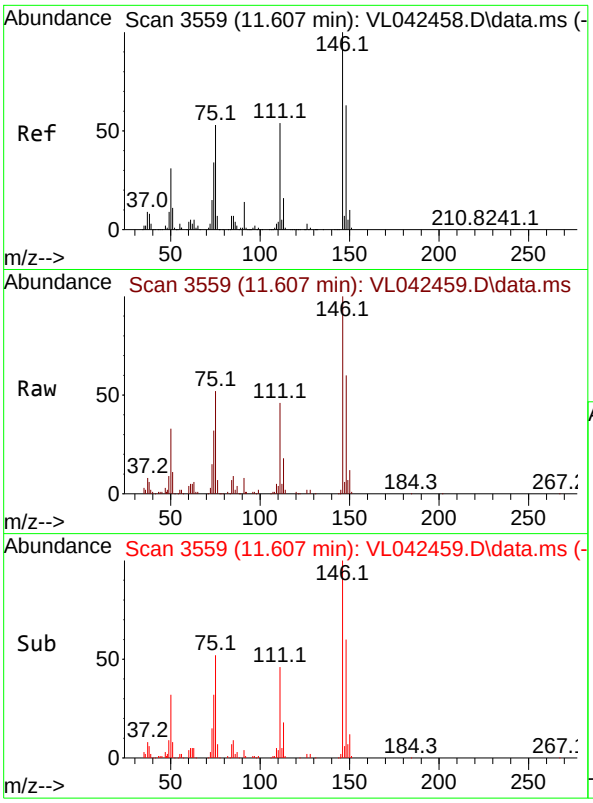


#74
1,2,4-Trimethylbenzene
Concen: 2.359 ppbv
RT: 11.536 min Scan# 3537
Delta R.T. -0.000 min
Lab File: VL042459.D
Acq: 01 May 2025 09:37

Tgt Ion:105 Resp: 72485

Ion	Ratio	Lower	Upper
105	100		
120	43.0	36.1	54.1
91	65.5	57.6	86.4
77	23.3	22.1	33.1



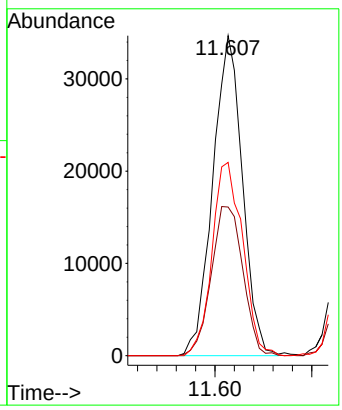


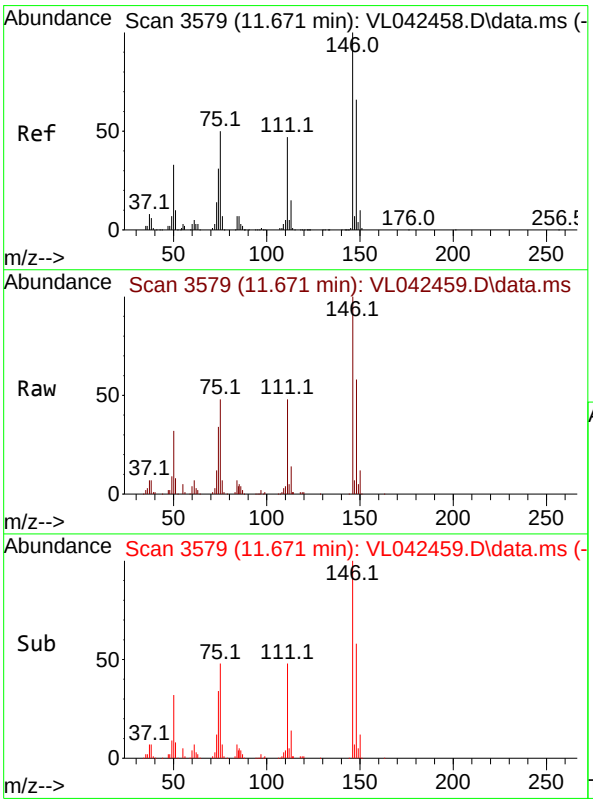
#75
1,3-Dichlorobenzene
Concen: 2.156 ppbv
RT: 11.607 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042459.D
Acq: 01 May 2025 09:37

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion:146 Resp: 36885

Ion	Ratio	Lower	Upper
146	100		
111	49.8	26.1	78.3
148	62.2	32.0	96.0

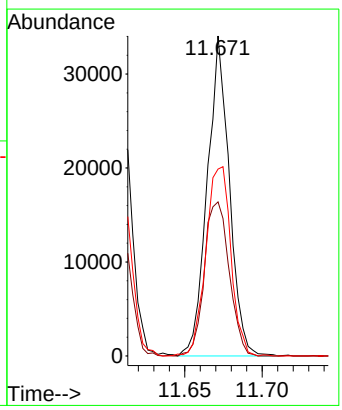


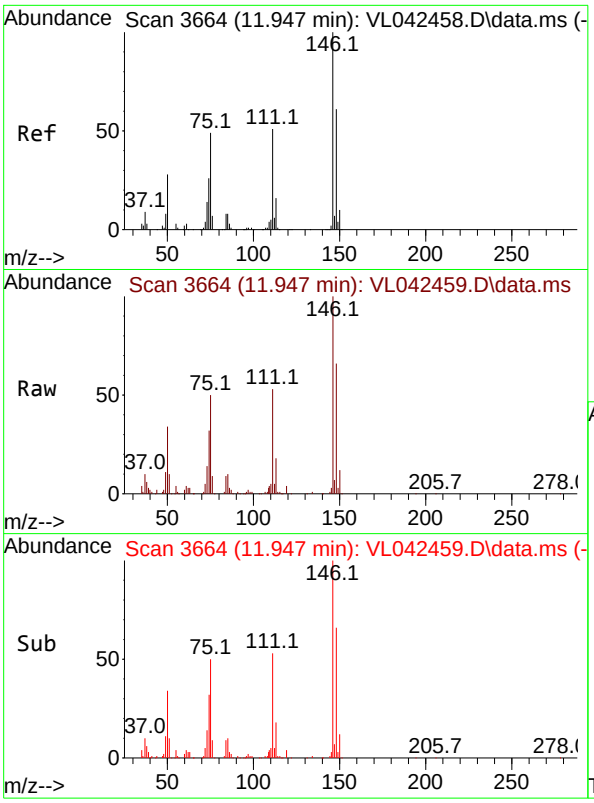


#76
1,4-Dichlorobenzene
Concen: 2.083 ppbv
RT: 11.671 min Scan# 3579
Delta R.T. -0.000 min
Lab File: VL042459.D
Acq: 01 May 2025 09:37

Tgt Ion:146 Resp: 33728

Ion	Ratio	Lower	Upper
146	100		
111	54.4	24.4	73.2
148	67.0	32.0	96.2



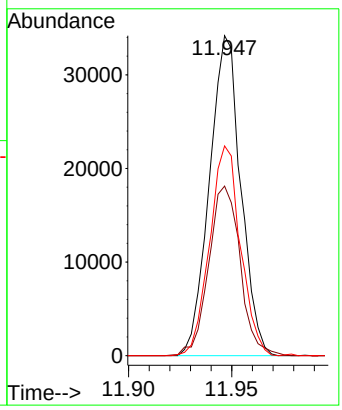


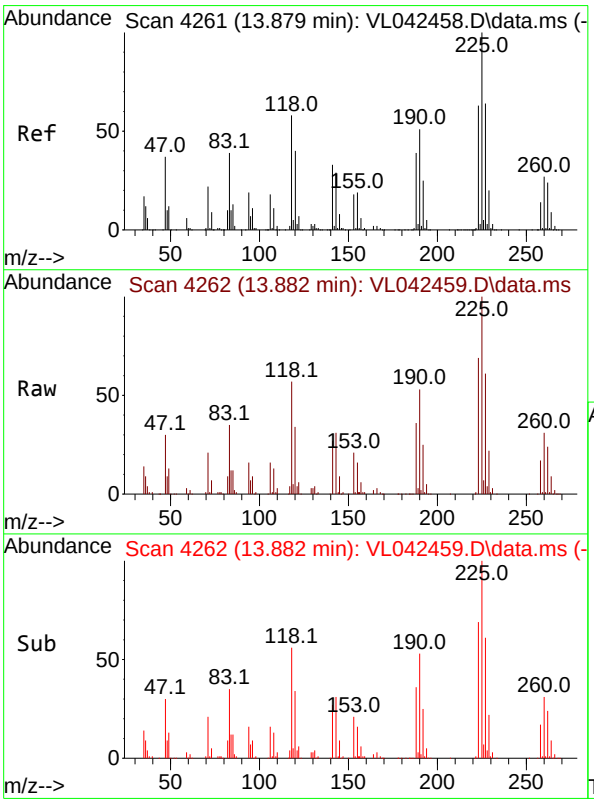
#77
1,2-Dichlorobenzene
Concen: 2.154 ppbv
RT: 11.947 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042459.D
Acq: 01 May 2025 09:37

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion:146 Resp: 36078

Ion	Ratio	Lower	Upper
146	100		
111	53.3	26.5	79.5
148	64.6	31.5	94.5

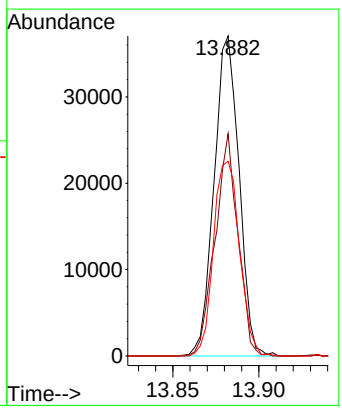


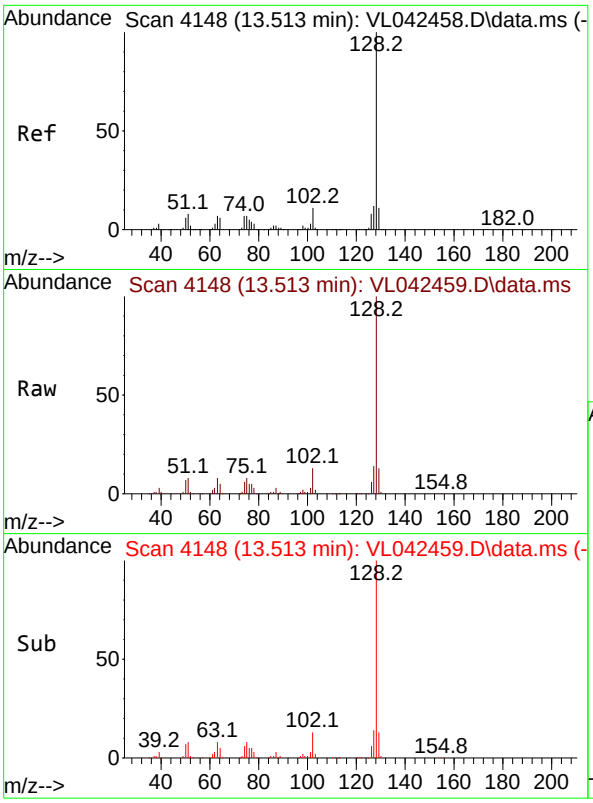


#78
Hexachloro-1,3-Butadiene
Concen: 2.234 ppbv
RT: 13.882 min Scan# 4262
Delta R.T. 0.003 min
Lab File: VL042459.D
Acq: 01 May 2025 09:37

Tgt Ion:225 Resp: 37360

Ion	Ratio	Lower	Upper
225	100		
223	63.7	50.2	75.4
227	63.5	51.2	76.8



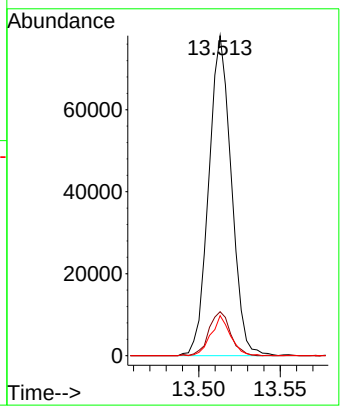


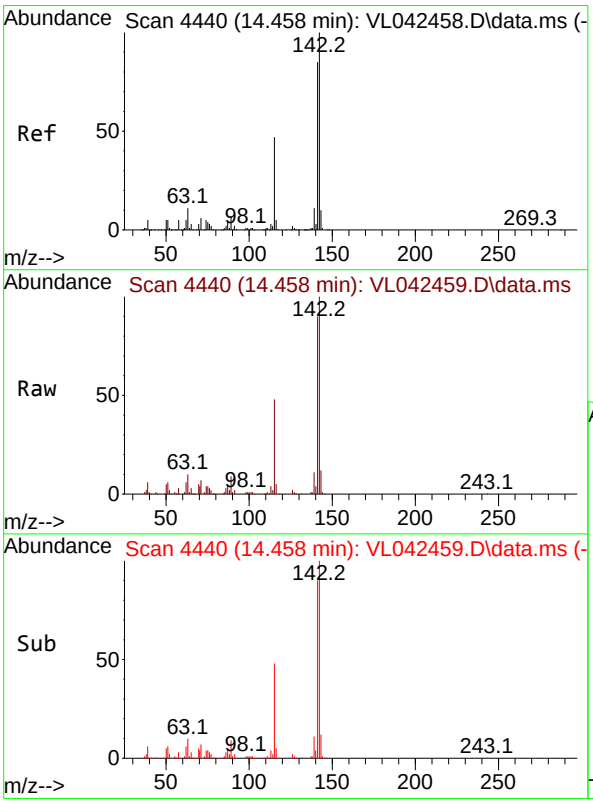
#79
Naphthalene
Concen: 2.920 ppbv
RT: 13.513 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042459.D
Acq: 01 May 2025 09:37

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion:128 Resp: 75248

Ion	Ratio	Lower	Upper
128	100		
127	13.8	9.7	14.5
129	12.5	8.6	13.0

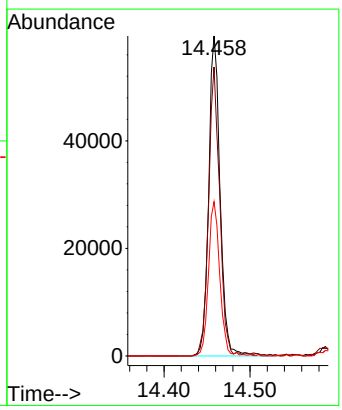


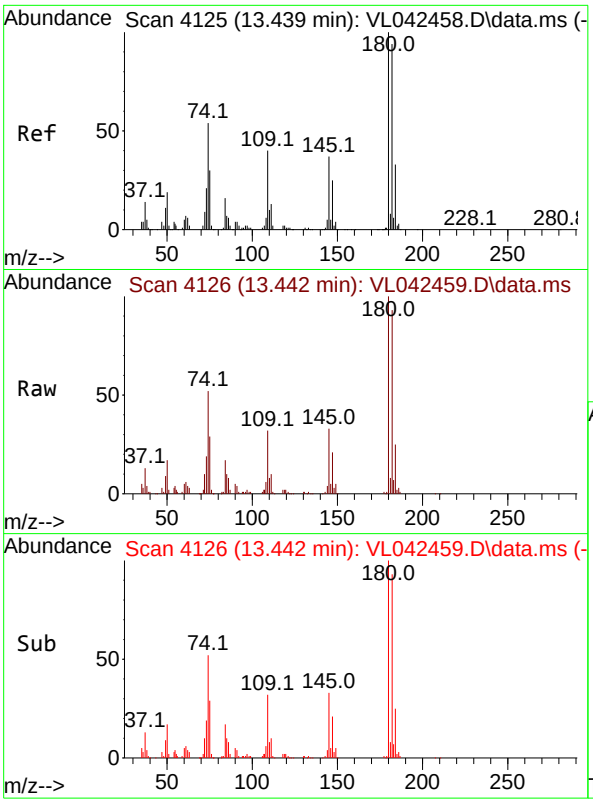


#80
Naphthalene,2-methyl-
Concen: 2.857 ppbv
RT: 14.458 min Scan# 4440
Delta R.T. -0.000 min
Lab File: VL042459.D
Acq: 01 May 2025 09:37

Tgt Ion:142 Resp: 54922

Ion	Ratio	Lower	Upper
142	100		
141	89.0	67.4	101.0
115	47.9	36.9	55.3



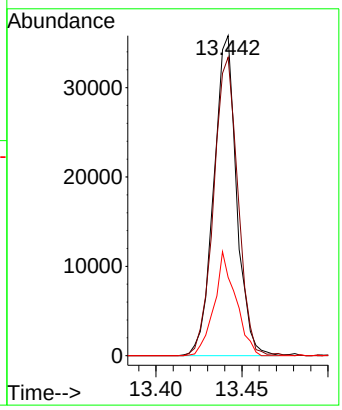


#81
1,2,4-Trichlorobenzene
Concen: 2.396 ppbv
RT: 13.442 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL042459.D
Acq: 01 May 2025 09:37

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion:180 Resp: 33063

Ion	Ratio	Lower	Upper
180	100		
182	99.0	74.6	111.8
184	30.7	24.9	37.3



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050125\
Data File : VL042460.D
Acq On : 01 May 2025 10:08
Operator : SY/MD
Sample : VSTDICC001
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Quant Time: May 02 01:41:24 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri May 02 01:37:48 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.784	49	71499	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.955	114	200111	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.881	117	170872	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.374	95	158600	10.011	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 100.100%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.499	85	11796	0.997	ppbv		96
3) Chlorodifluoromethane	1.476	51	13375	1.069	ppbv		96
4) Chloromethane	1.531	50	4975	1.006	ppbv		95
5) Vinyl Chloride	1.576	62	4469	0.898	ppbv		100
6) Bromomethane	1.667	94	2570	1.092	ppbv		86
7) Chloroethane	1.703	64	1943	1.057	ppbv		94
8) Dichlorotetrafluoroethane	1.554	85	9804	1.005	ppbv		91
9) Propene	1.482	41	4331	1.058	ppbv		88
10) Heptane	4.975	43	3958	0.373	ppbv	#	1
11) Trichlorofluoromethane	2.140	101	8821	0.836	ppbv		94
12) 1,1,2-Trichlorotrifluo...	2.140	101	8821	1.012	ppbv		97
13) Ethanol	1.719	45	975	1.174	ppbv	#	52
14) Bromoethene	1.780	108	3164	0.983	ppbv	#	91
15) Acetone	1.835	43	14974	1.147	ppbv		98
16) 1,3-Butadiene	1.609	39	6248	1.085	ppbv		96
17) tert-Butyl alcohol	2.039	59	11546	1.004	ppbv	#	91
18) 1,1-Dichloroethene	2.033	96	4200	1.032	ppbv		86
19) Isopropyl Alcohol	1.884	45	7775	1.076	ppbv		99
20) Methylene Chloride	2.059	84	3909	0.996	ppbv		86
21) Allyl Chloride	2.094	41	8443	1.006	ppbv		94
22) trans-1,2-Dichloroethene	2.337	96	5305	1.116	ppbv		88
23) Vinyl Acetate	2.460	43	10876	0.894	ppbv	#	94
24) 1,1-Dichloroethane	2.405	63	10477	1.080	ppbv		97
25) Ethyl Acetate	2.835	43	21761	1.041	ppbv		99
26) Hexane	2.822	57	9223	1.013	ppbv		97
27) Carbon Disulfide	2.149	76	10342	0.973	ppbv	#	21
28) Methyl tert-Butyl Ether	2.441	73	6101	1.115	ppbv		93
29) Chloroform	2.848	83	17744	1.040	ppbv		97
30) Cyclohexane	3.852	84	7139	0.938	ppbv		88
31) cis-1,2-Dichloroethene	2.719	61	11472	1.080	ppbv		87
32) 1,1,1-Trichloroethane	3.366	97	17881	0.966	ppbv		98
34) 2-Butanone	2.560	43	14641	1.012	ppbv		94
35) Carbon Tetrachloride	3.755	117	18704	1.075	ppbv	#	76
36) Benzene	3.654	78	19493	1.032	ppbv	#	94
37) 1,2-Dichloroethane	3.214	62	15116	1.039	ppbv		98
38) Trichloroethene	4.541	130	5464	0.759	ppbv		92
39) 1,2-Dichloropropane	4.315	63	3118	0.441	ppbv	#	86
40) 1,4-Dioxane	4.616	88	653	0.199	ppbv	#	100
41) Tetrahydrofuran	3.062	42	6436	0.938	ppbv		99
42) Bromodichloromethane	4.486	83	18427	1.036	ppbv	#	81
43) Methyl Methacrylate	4.874	69	4182	0.595	ppbv	#	25
44) 2,2,4-Trimethylpentane	4.635	57	29395	0.963	ppbv		93
45) t-1,3-Dichloropropene	6.418	75	3916	0.423	ppbv		94

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050125\
Data File : VL042460.D
Acq On : 01 May 2025 10:08
Operator : SY/MD
Sample : VSTDICC001
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Quant Time: May 02 01:41:24 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri May 02 01:37:48 2025
Response via : Initial Calibration

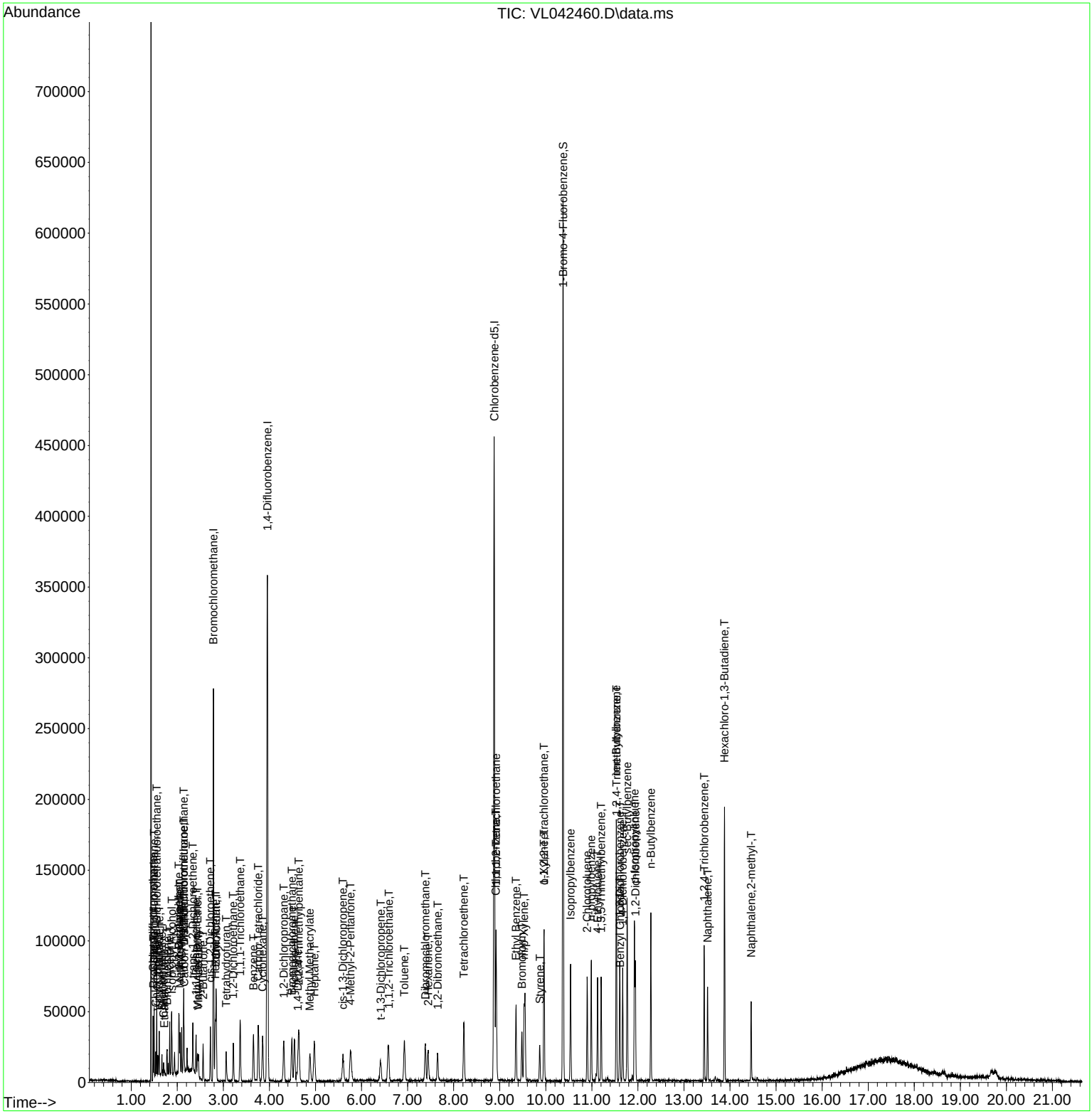
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) cis-1,3-Dichloropropene	5.596	75	6187	0.563	ppbv		92
47) 1,1,2-Trichloroethane	6.593	97	2088	0.269	ppbv		92
48) Dibromochloromethane	7.386	129	12205	0.933	ppbv		96
49) Bromoform	9.483	173	10709	0.976	ppbv		97
50) 4-Methyl-2-Pentanone	5.758	43	9019	0.493	ppbv	#	43
51) 2-Hexanone	7.448	43	7505	0.512	ppbv	#	31
52) Tetrachloroethene	8.221	164	6780	0.943	ppbv		86
53) Toluene	6.930	91	19390	0.970	ppbv		97
54) 1,2-Dibromoethane	7.655	107	11980	1.005	ppbv		91
56) 1,1,1,2-Tetrachloroethane	8.920	131	10811	1.071	ppbv		94
57) Chlorobenzene	8.917	112	18111	1.055	ppbv		90
58) Ethyl Benzene	9.354	91	27914	0.978	ppbv		97
59) m/p-Xylene	9.529	91	19557	0.817	ppbv	#	33
60) o-Xylene	9.962	91	23806	0.995	ppbv		98
61) Styrene	9.872	104	8537	0.954	ppbv		98
62) Isopropylbenzene	10.539	105	34679	1.003	ppbv		98
63) 1,1,2,2-Tetrachloroethane	9.962	83	16837	1.084	ppbv		98
64) n-propylbenzene	10.985	120	8958	1.064	ppbv		86
65) tert-Butylbenzene	11.529	119	30604	0.992	ppbv		95
66) Benzyl Chloride	11.613	91	3486	0.978	ppbv	#	96
67) sec-Butylbenzene	11.765	105	43740	0.998	ppbv		98
69) p-Isopropyltoluene	11.927	119	37011	1.002	ppbv		99
70) n-Butylbenzene	12.280	91	37892	0.992	ppbv		97
71) 2-Chlorotoluene	10.898	91	26813	0.989	ppbv		99
72) 4-Ethyltoluene	11.124	105	28149	0.996	ppbv		96
73) 1,3,5-Trimethylbenzene	11.202	105	25073	1.009	ppbv		97
74) 1,2,4-Trimethylbenzene	11.535	105	30550	1.016	ppbv		92
75) 1,3-Dichlorobenzene	11.607	146	17456	1.043	ppbv		98
76) 1,4-Dichlorobenzene	11.671	146	16151	1.019	ppbv		99
77) 1,2-Dichlorobenzene	11.947	146	17207	1.050	ppbv		94
78) Hexachloro-1,3-Butadiene	13.879	225	18472	1.129	ppbv		98
79) Naphthalene	13.513	128	28316	1.123	ppbv	#	94
80) Naphthalene,2-methyl-	14.458	142	15804	0.840	ppbv		93
81) 1,2,4-Trichlorobenzene	13.439	180	13644	1.011	ppbv		96

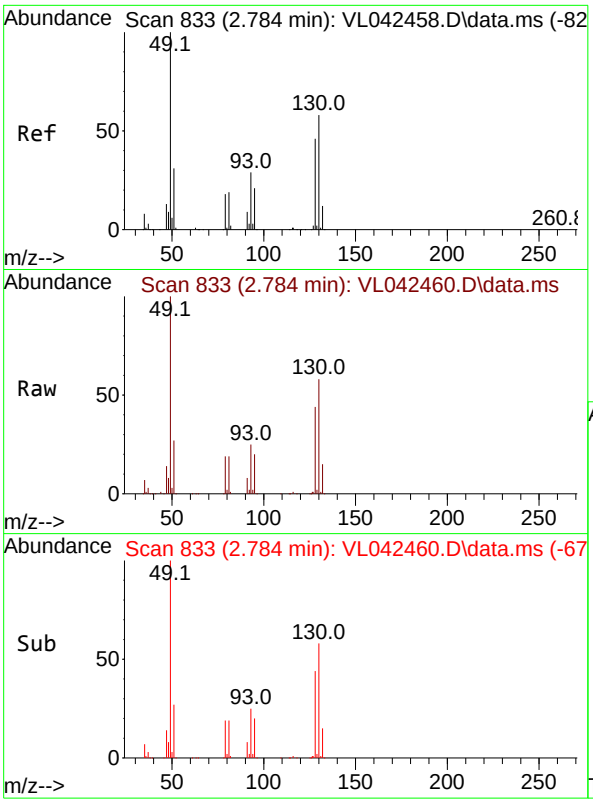
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050125\
Data File : VL042460.D
Acq On : 01 May 2025 10:08
Operator : SY/MD
Sample : VSTDICC001
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Quant Time: May 02 01:41:24 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri May 02 01:37:48 2025
Response via : Initial Calibration



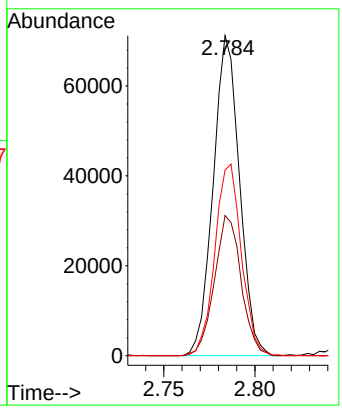


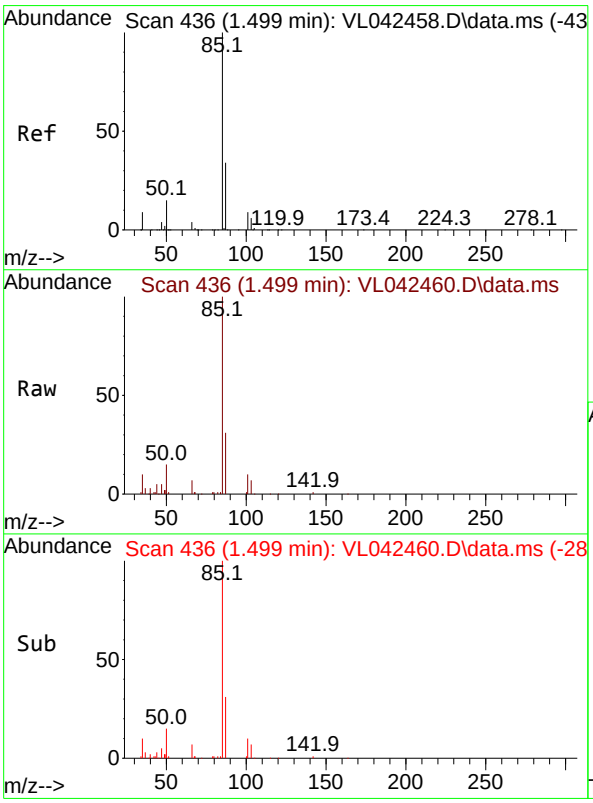
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL042460.D
Acq: 01 May 2025 10:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 49 Resp: 71499

Ion	Ratio	Lower	Upper
49	100		
128	44.3	23.3	69.9
130	60.4	29.5	88.6

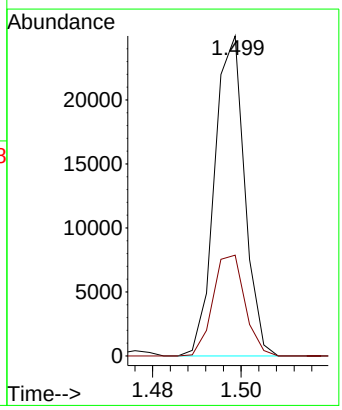


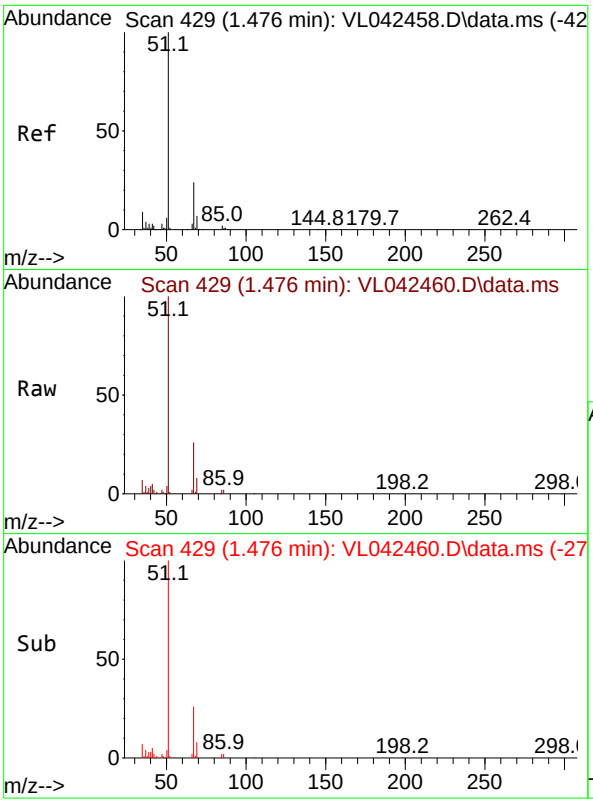


#2
Dichlorodifluoromethane
Concen: 0.997 ppbv
RT: 1.499 min Scan# 436
Delta R.T. -0.000 min
Lab File: VL042460.D
Acq: 01 May 2025 10:08

Tgt Ion: 85 Resp: 11796

Ion	Ratio	Lower	Upper
85	100		
87	31.5	26.9	40.3



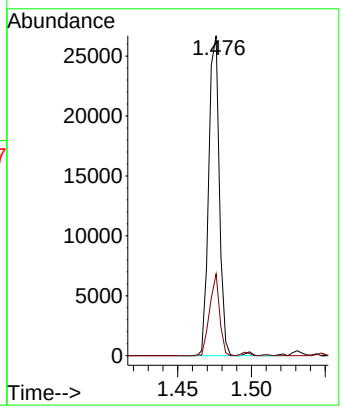


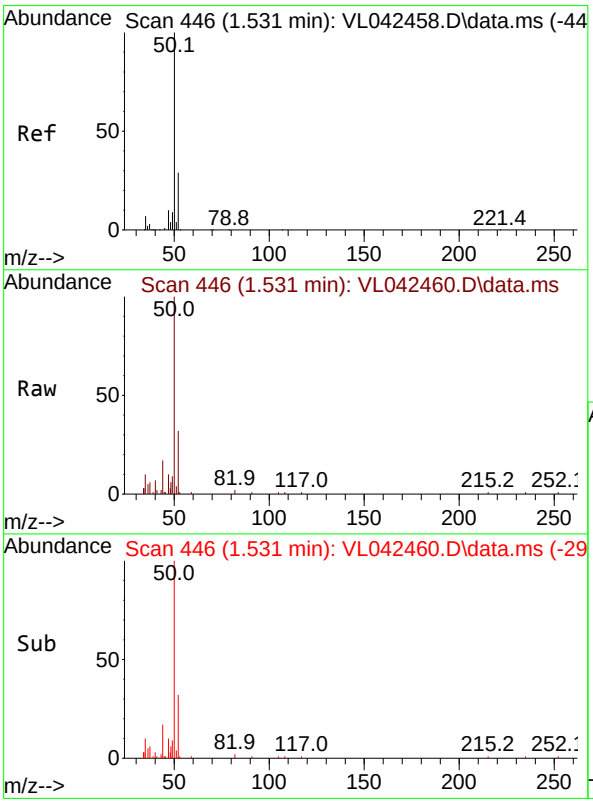
#3
Chlorodifluoromethane
Concen: 1.069 ppbv
RT: 1.476 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042460.D
Acq: 01 May 2025 10:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 51 Resp: 13375

Ion	Ratio	Lower	Upper
51	100		
67	24.9	18.4	27.6

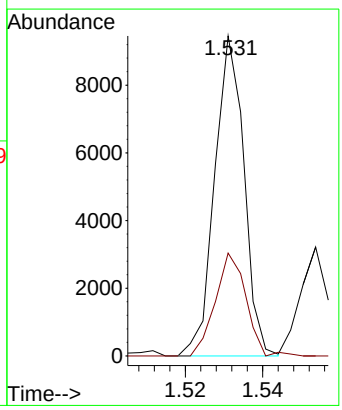


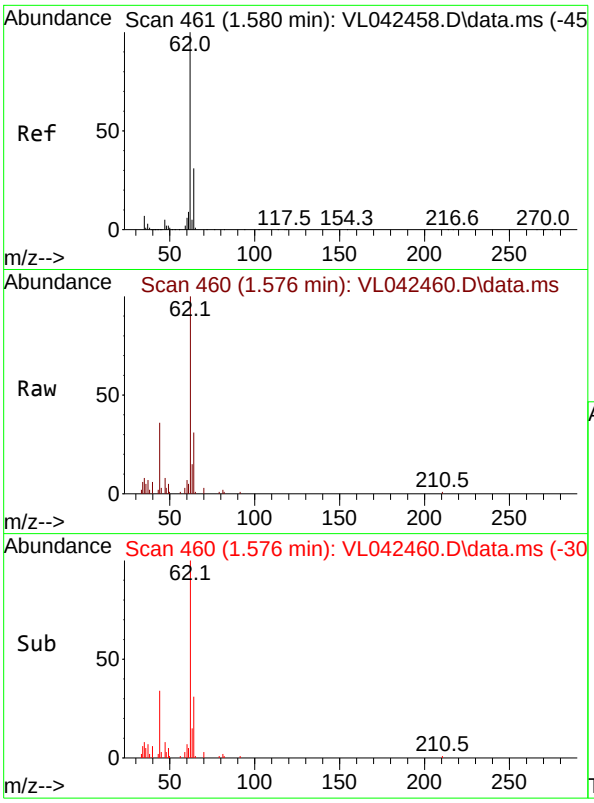


#4
Chloromethane
Concen: 1.006 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042460.D
Acq: 01 May 2025 10:08

Tgt Ion: 50 Resp: 4975

Ion	Ratio	Lower	Upper
50	100		
52	32.1	23.5	35.3



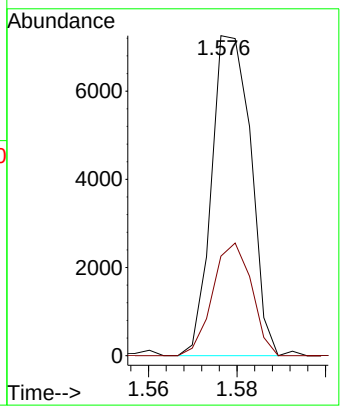


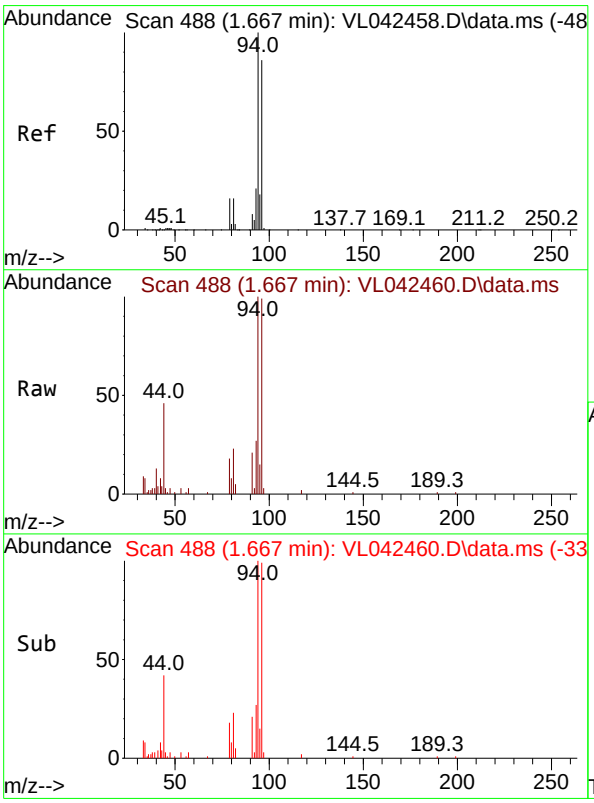
#5
Vinyl Chloride
Concen: 0.898 ppbv
RT: 1.576 min Scan# 4
Delta R.T. -0.003 min
Lab File: VL042460.D
Acq: 01 May 2025 10:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 62 Resp: 4469

Ion	Ratio	Lower	Upper
62	100		
64	31.1	24.9	37.3

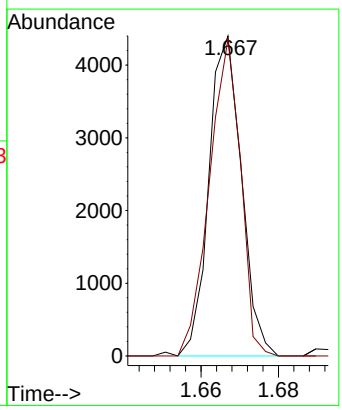


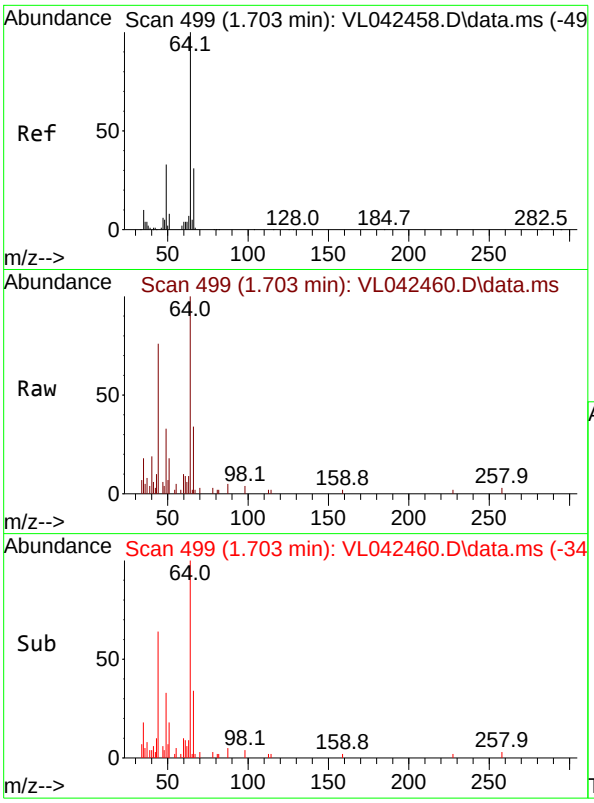


#6
Bromomethane
Concen: 1.092 ppbv
RT: 1.667 min Scan# 488
Delta R.T. -0.000 min
Lab File: VL042460.D
Acq: 01 May 2025 10:08

Tgt Ion: 94 Resp: 2570

Ion	Ratio	Lower	Upper
94	100		
96	99.0	68.8	103.2



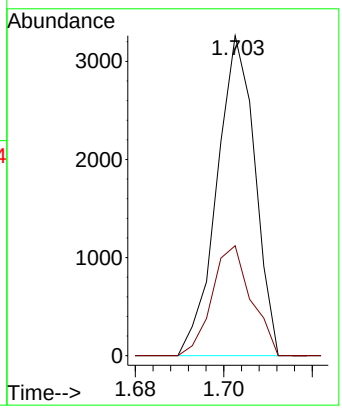


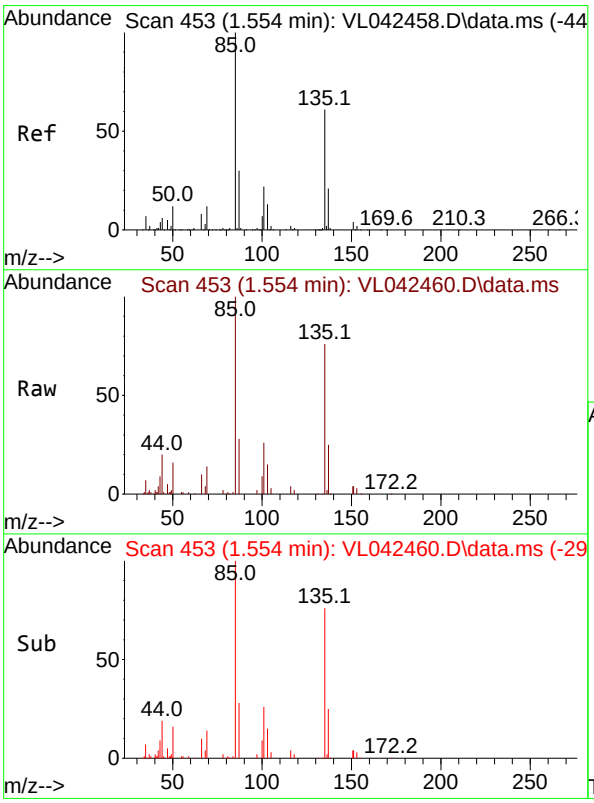
#7
Chloroethane
Concen: 1.057 ppbv
RT: 1.703 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042460.D
Acq: 01 May 2025 10:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 64 Resp: 1943

Ion	Ratio	Lower	Upper
64	100		
66	34.4	25.0	37.4

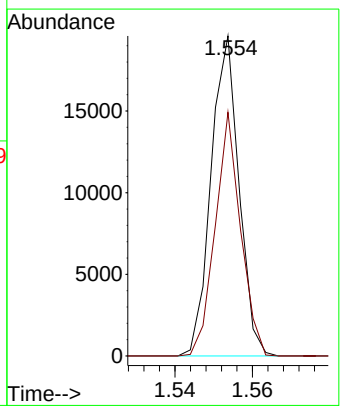


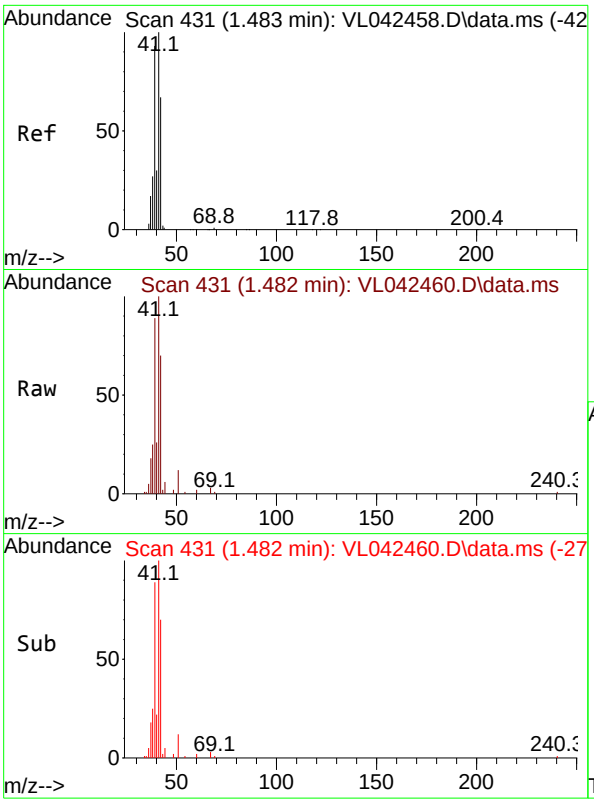


#8
Dichlorotetrafluoroethane
Concen: 1.005 ppbv
RT: 1.554 min Scan# 453
Delta R.T. -0.000 min
Lab File: VL042460.D
Acq: 01 May 2025 10:08

Tgt Ion: 85 Resp: 9804

Ion	Ratio	Lower	Upper
85	100		
135	69.3	49.8	74.8



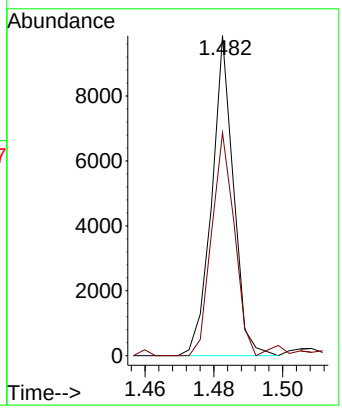


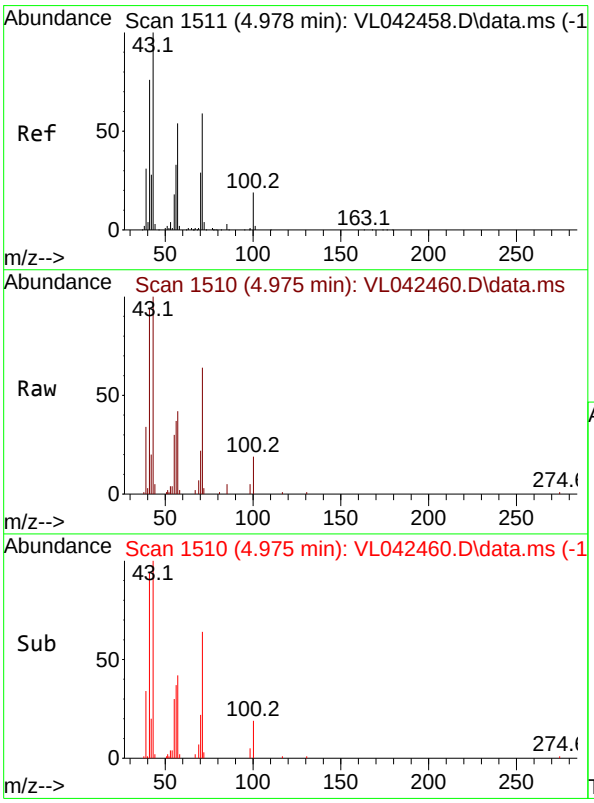
#9
Propene
Concen: 1.058 ppbv
RT: 1.482 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042460.D
Acq: 01 May 2025 10:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 41 Resp: 4331

Ion	Ratio	Lower	Upper
41	100		
42	77.9	54.3	81.5

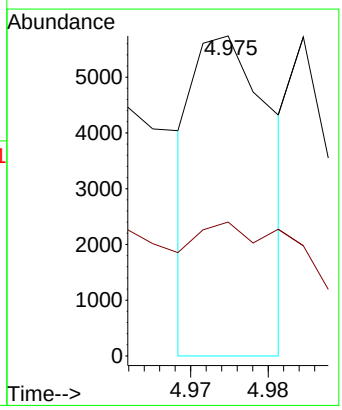


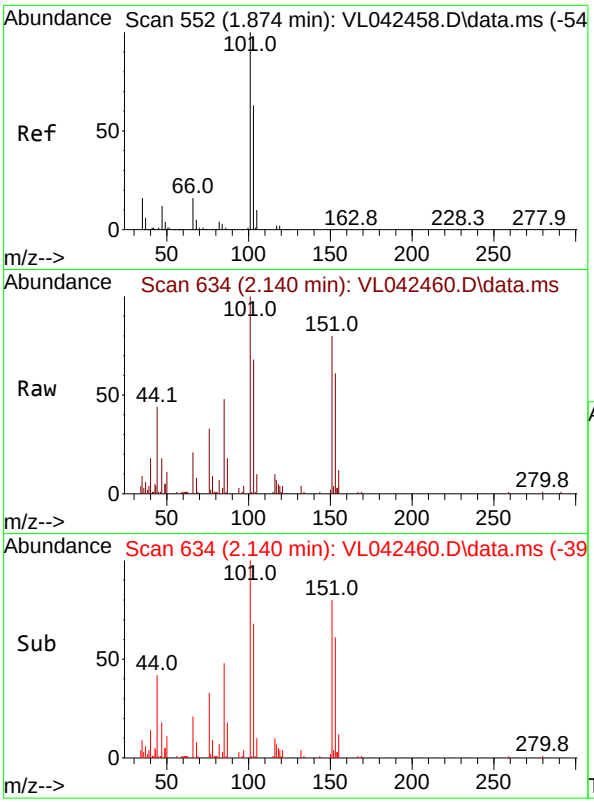


#10
Heptane
Concen: 0.373 ppbv
RT: 4.975 min Scan# 1510
Delta R.T. -0.003 min
Lab File: VL042460.D
Acq: 01 May 2025 10:08

Tgt Ion: 43 Resp: 3958

Ion	Ratio	Lower	Upper
43	100		
57	139.7	41.8	62.8#



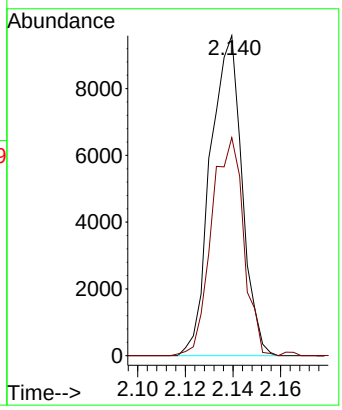


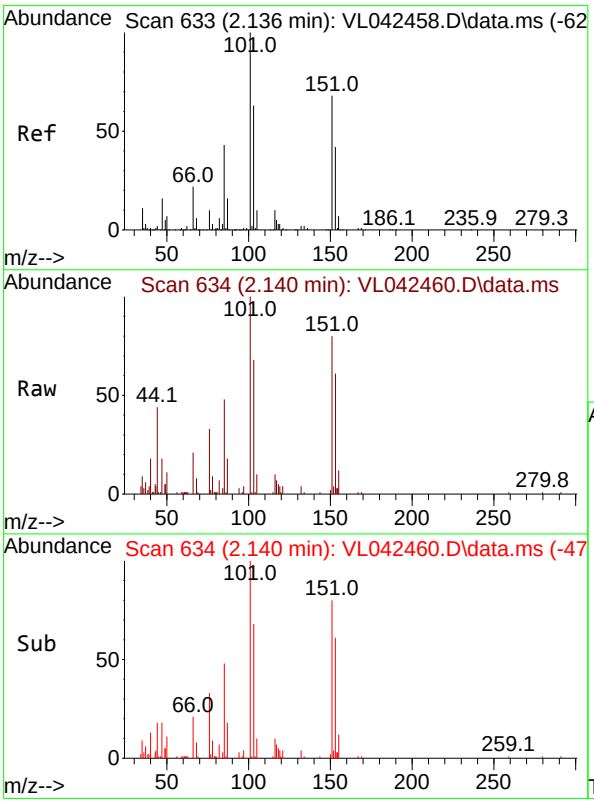
#11
Trichlorofluoromethane
Concen: 0.836 ppbv
RT: 2.140 min Scan# 6
Delta R.T. 0.265 min
Lab File: VL042460.D
Acq: 01 May 2025 10:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion:101 Resp: 8821

Ion	Ratio	Lower	Upper
101	100		
103	68.2	50.6	76.0

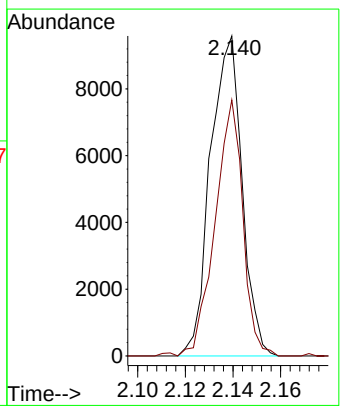


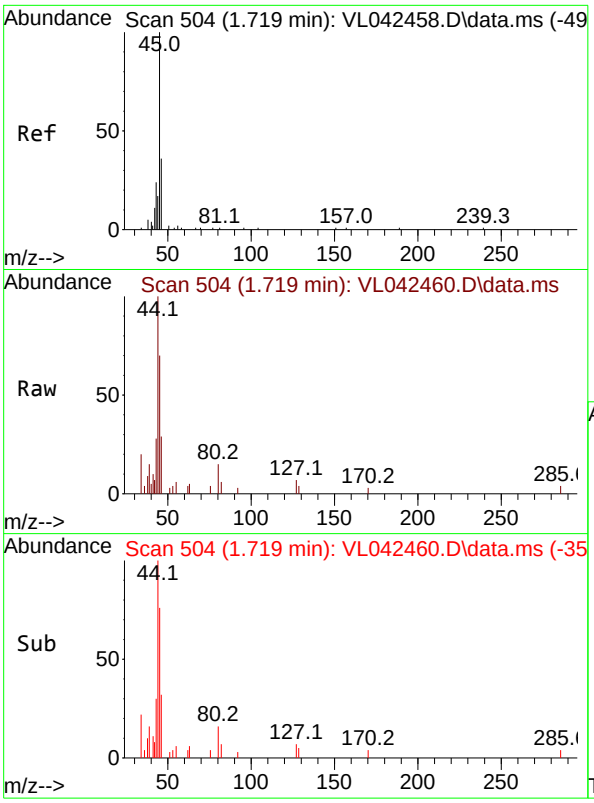


#12
1,1,2-Trichlorotrifluoroethane
Concen: 1.012 ppbv
RT: 2.140 min Scan# 634
Delta R.T. 0.003 min
Lab File: VL042460.D
Acq: 01 May 2025 10:08

Tgt Ion:101 Resp: 8821

Ion	Ratio	Lower	Upper
101	100		
151	70.5	54.6	82.0



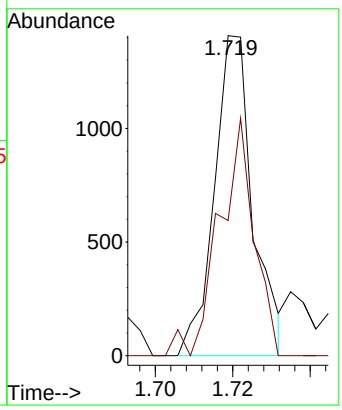


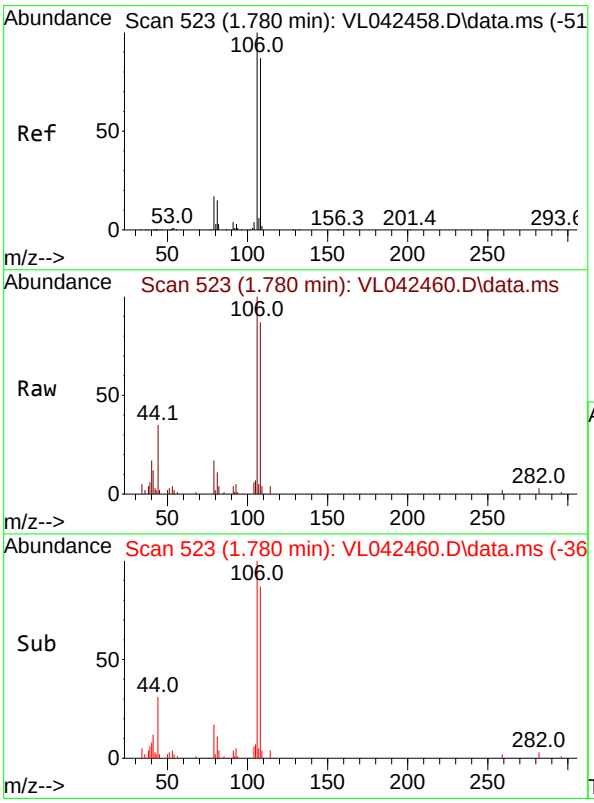
#13
Ethanol
Concen: 1.174 ppbv
RT: 1.719 min Scan# 5(
Delta R.T. -0.000 min
Lab File: VL042460.D
Acq: 01 May 2025 10:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 45 Resp: 975

Ion	Ratio	Lower	Upper
45	100		
46	67.2	15.3	61.1#

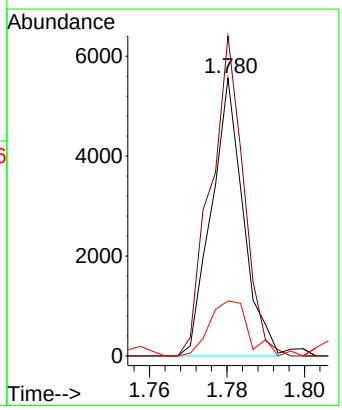


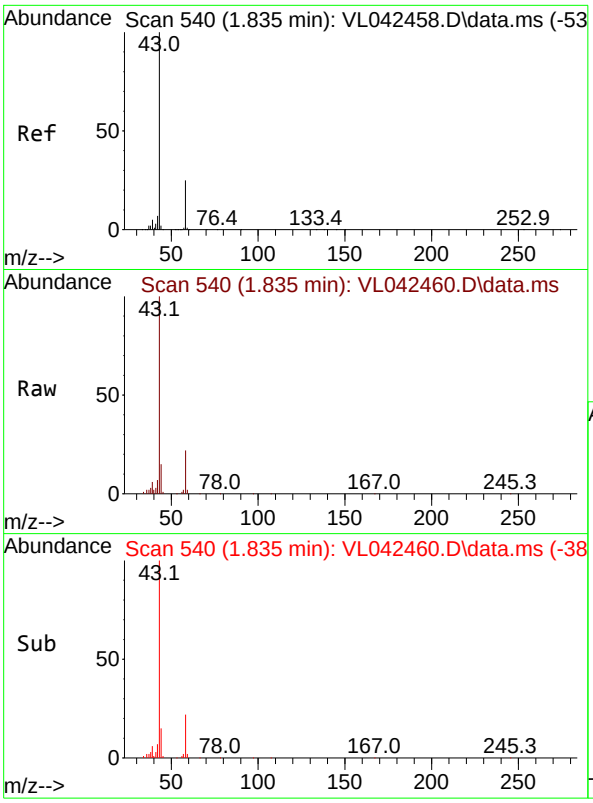


#14
Bromoethene
Concen: 0.983 ppbv
RT: 1.780 min Scan# 523
Delta R.T. -0.000 min
Lab File: VL042460.D
Acq: 01 May 2025 10:08

Tgt Ion:108 Resp: 3164

Ion	Ratio	Lower	Upper
108	100		
106	119.2	88.8	133.2
79	28.5	17.1	25.7#



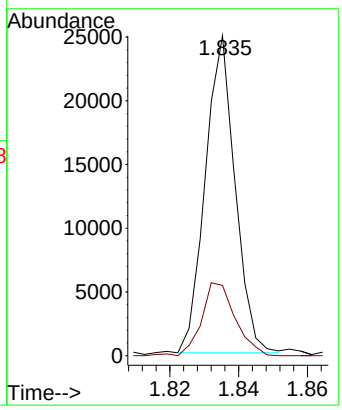


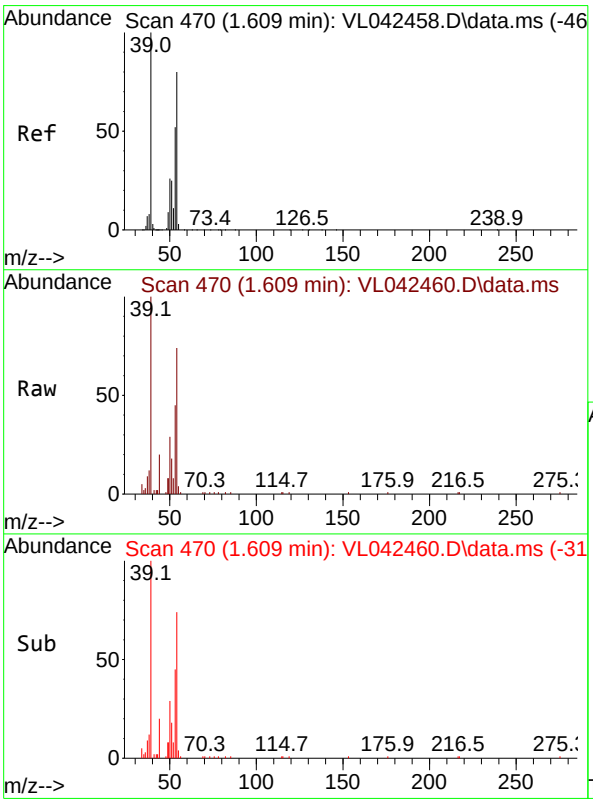
#15
Acetone
Concen: 1.147 ppbv
RT: 1.835 min Scan# 54
Delta R.T. -0.000 min
Lab File: VL042460.D
Acq: 01 May 2025 10:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 43 Resp: 14974

Ion	Ratio	Lower	Upper
43	100		
58	25.9	19.8	29.8

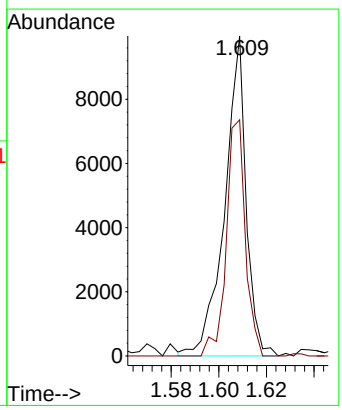


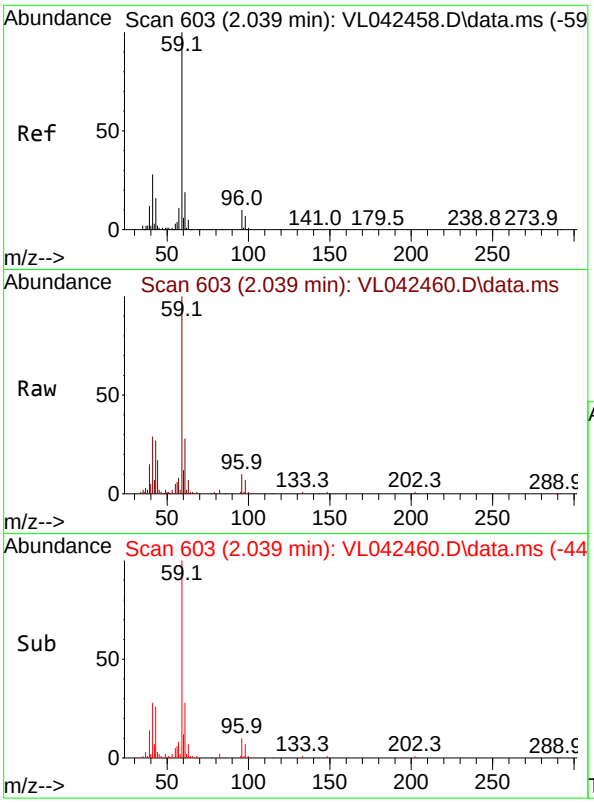


#16
1,3-Butadiene
Concen: 1.085 ppbv
RT: 1.609 min Scan# 470
Delta R.T. -0.000 min
Lab File: VL042460.D
Acq: 01 May 2025 10:08

Tgt Ion: 39 Resp: 6248

Ion	Ratio	Lower	Upper
39	100		
54	65.7	55.2	82.8



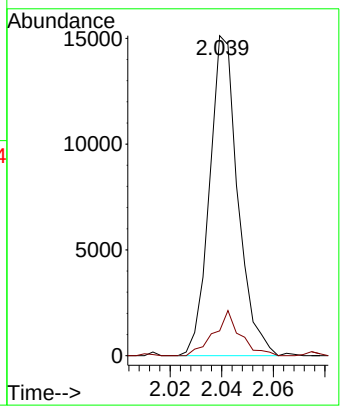


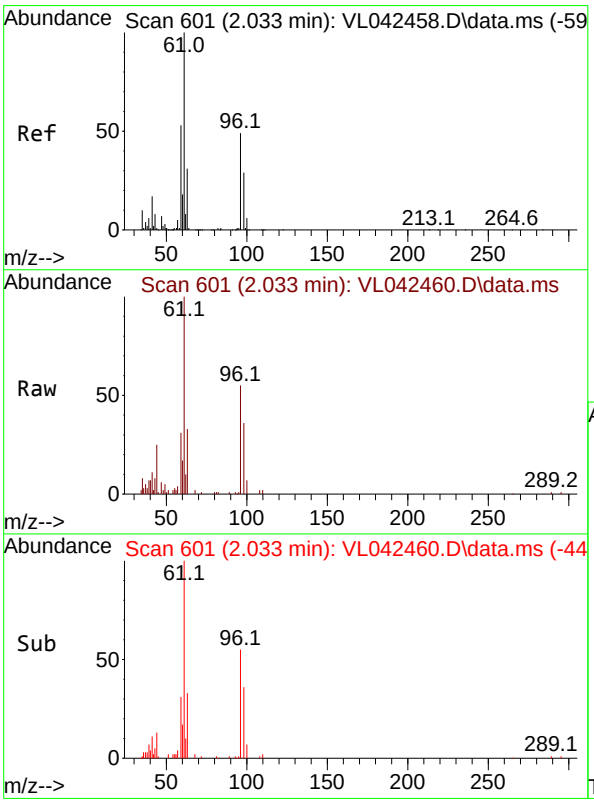
#17
tert-Butyl alcohol
Concen: 1.004 ppbv
RT: 2.039 min Scan# 6
Delta R.T. -0.000 min
Lab File: VL042460.D
Acq: 01 May 2025 10:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 59 Resp: 11546

Ion	Ratio	Lower	Upper
59	100		
57	13.7	8.3	12.5#

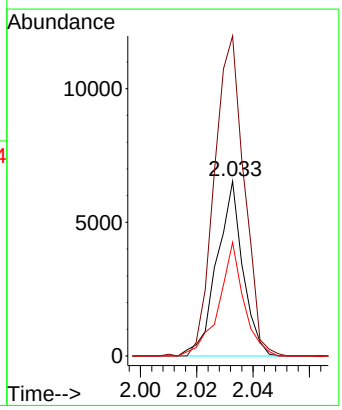


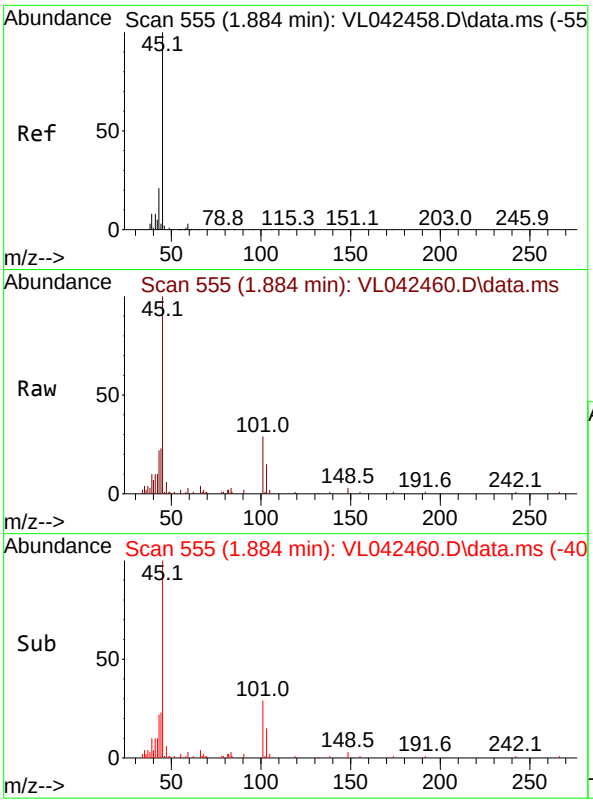


#18
1,1-Dichloroethene
Concen: 1.032 ppbv
RT: 2.033 min Scan# 601
Delta R.T. -0.000 min
Lab File: VL042460.D
Acq: 01 May 2025 10:08

Tgt Ion: 96 Resp: 4200

Ion	Ratio	Lower	Upper
96	100		
61	181.9	164.9	247.3
98	65.1	48.2	72.2



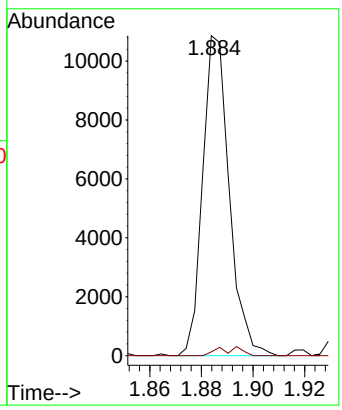


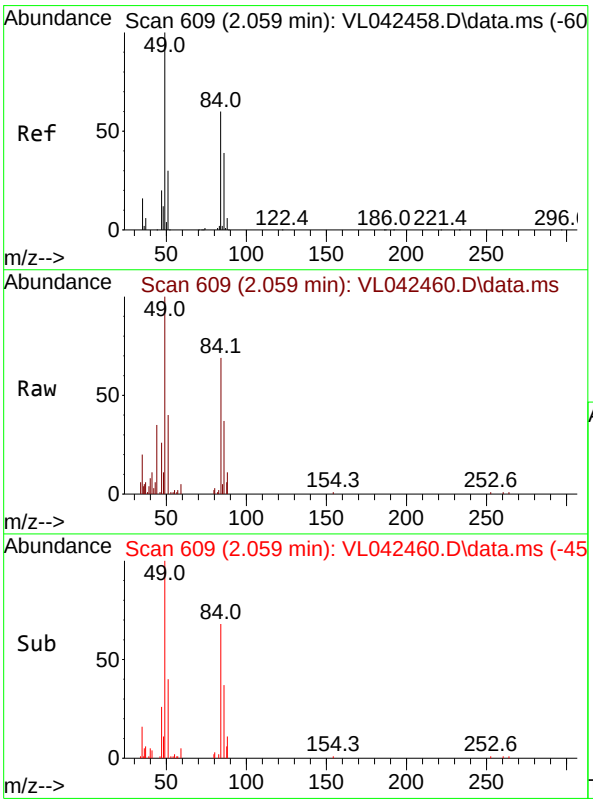
#19
Isopropyl Alcohol
Concen: 1.076 ppbv
RT: 1.884 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL042460.D
Acq: 01 May 2025 10:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 45 Resp: 7775

Ion	Ratio	Lower	Upper
45	100		
58	2.3	1.6	2.4

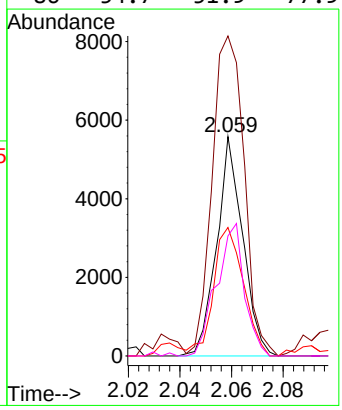


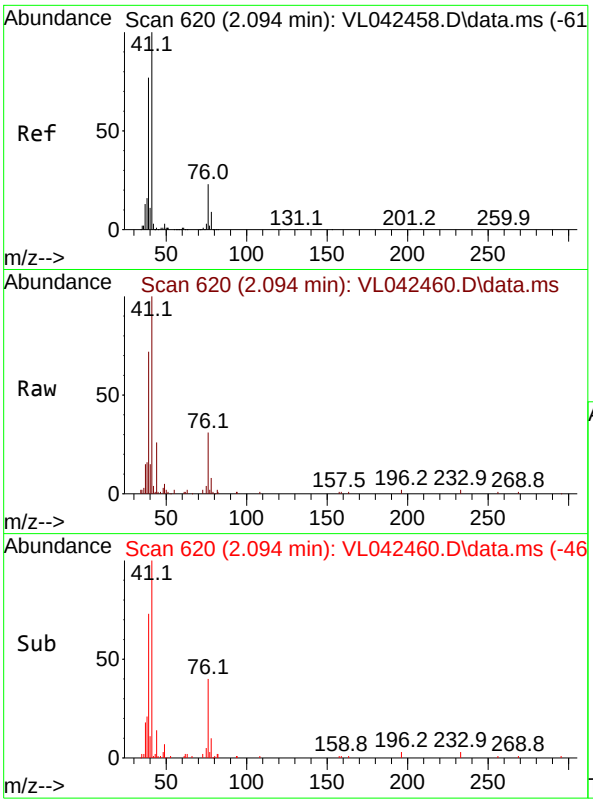


#20
Methylene Chloride
Concen: 0.996 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.000 min
Lab File: VL042460.D
Acq: 01 May 2025 10:08

Tgt Ion: 84 Resp: 3909

Ion	Ratio	Lower	Upper
84	100		
49	145.9	133.9	200.9
51	58.5	41.0	61.6
86	54.7	51.9	77.9



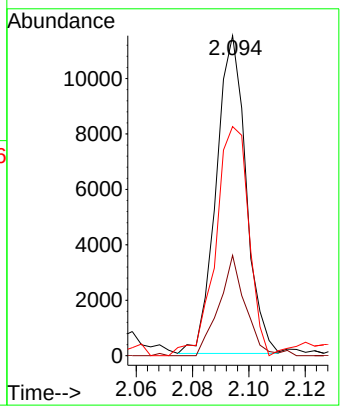


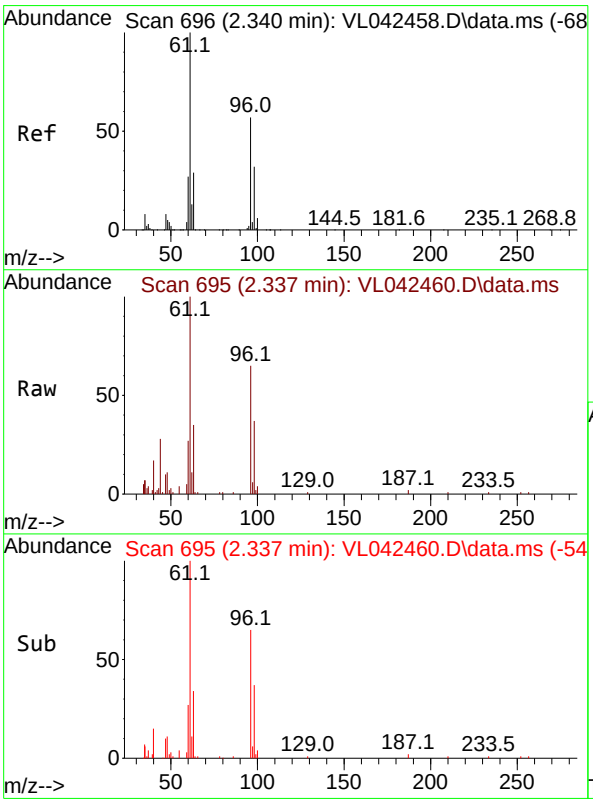
#21
Allyl Chloride
Concen: 1.006 ppbv
RT: 2.094 min Scan# 6
Delta R.T. -0.000 min
Lab File: VL042460.D
Acq: 01 May 2025 10:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 41 Resp: 8443

Ion	Ratio	Lower	Upper
41	100		
76	28.4	19.6	29.4
39	81.3	61.0	91.4

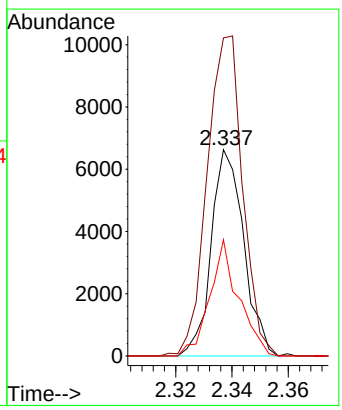


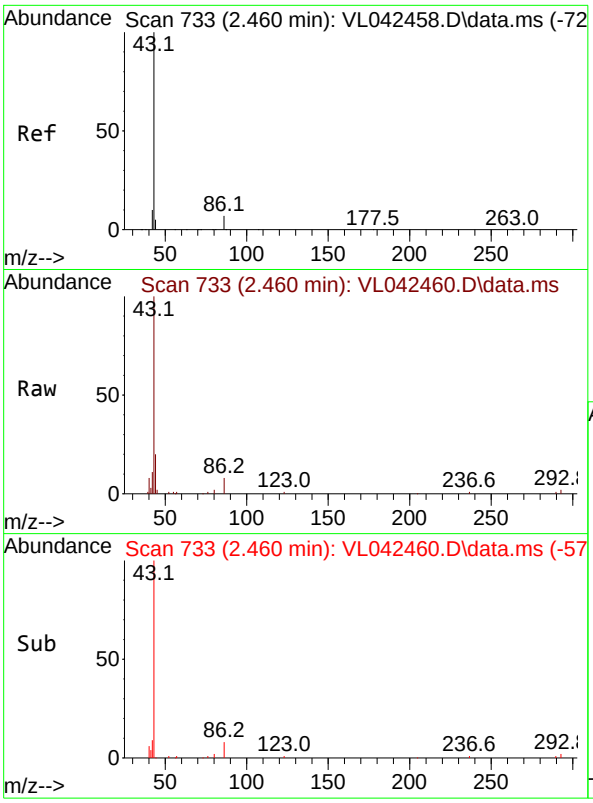


#22
trans-1,2-Dichloroethene
Concen: 1.116 ppbv
RT: 2.337 min Scan# 695
Delta R.T. -0.003 min
Lab File: VL042460.D
Acq: 01 May 2025 10:08

Tgt Ion: 96 Resp: 5305

Ion	Ratio	Lower	Upper
96	100		
61	154.3	141.8	212.6
98	56.3	45.0	67.6



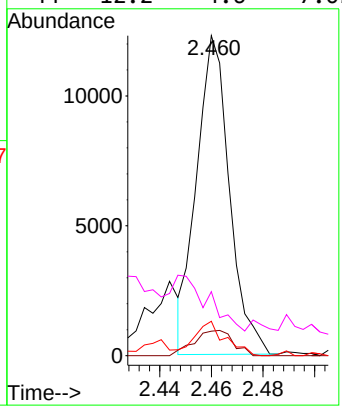


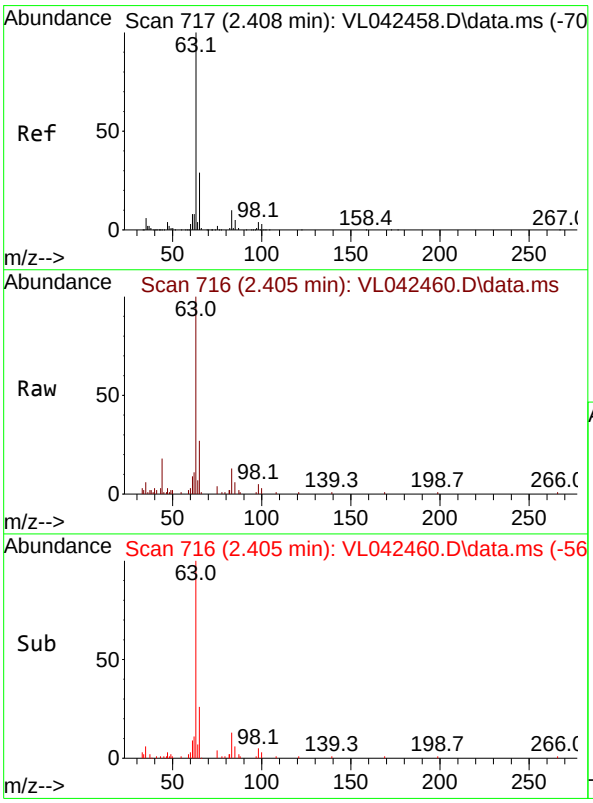
#23
Vinyl Acetate
Concen: 0.894 ppbv
RT: 2.460 min Scan# 7
Delta R.T. -0.000 min
Lab File: VL042460.D
Acq: 01 May 2025 10:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 43 Resp: 10876

Ion	Ratio	Lower	Upper
43	100		
86	7.7	5.5	8.3
42	10.3	8.3	12.5
44	12.2	4.6	7.0#

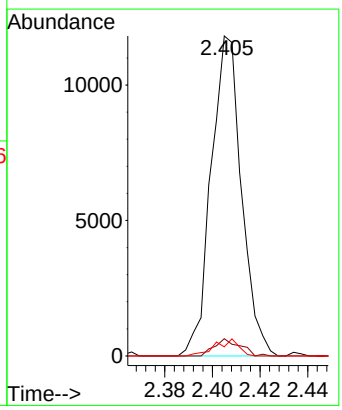


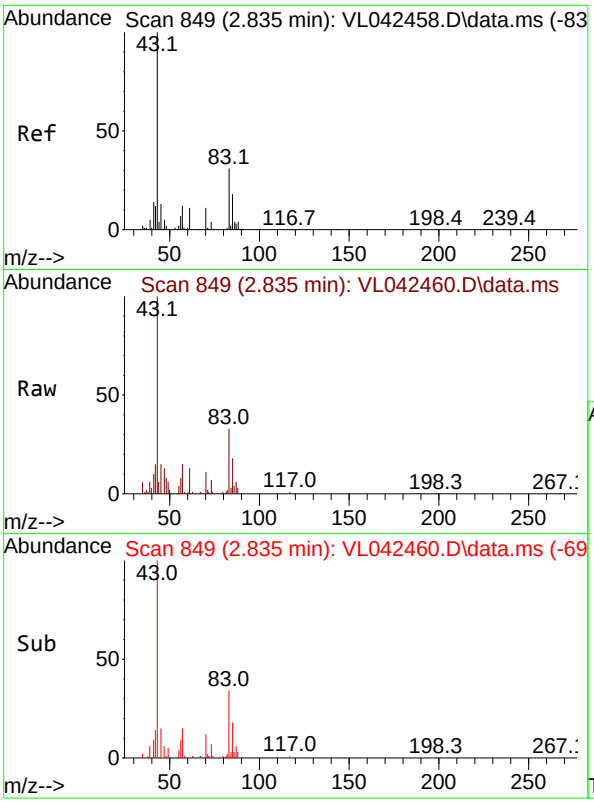


#24
1,1-Dichloroethane
Concen: 1.080 ppbv
RT: 2.405 min Scan# 716
Delta R.T. -0.003 min
Lab File: VL042460.D
Acq: 01 May 2025 10:08

Tgt Ion: 63 Resp: 10477

Ion	Ratio	Lower	Upper
63	100		
98	5.4	1.8	5.5
100	2.9	1.4	4.2



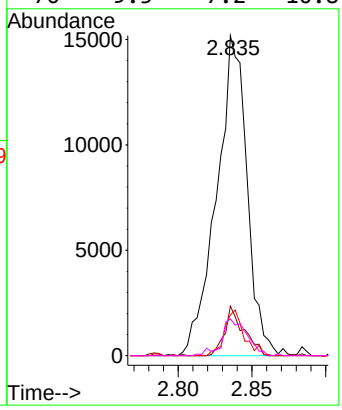


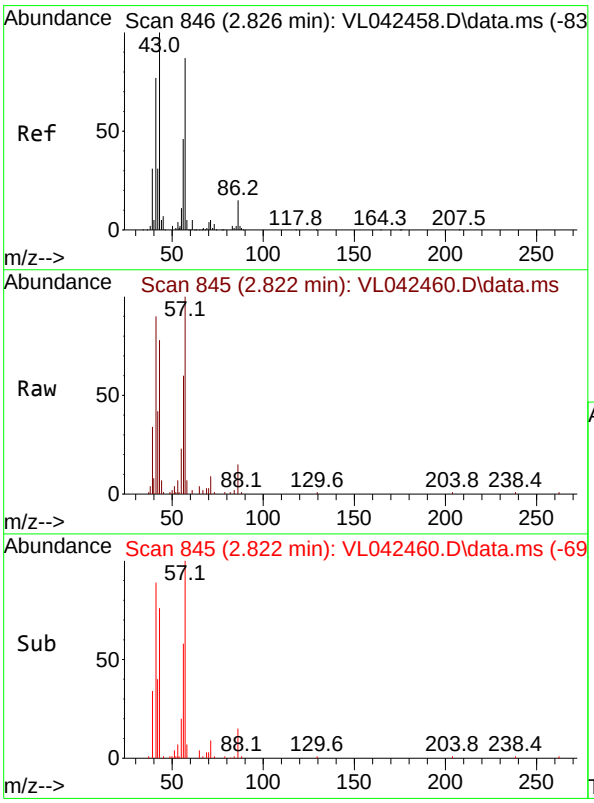
#25
Ethyl Acetate
Concen: 1.041 ppbv
RT: 2.835 min Scan# 84
Delta R.T. -0.000 min
Lab File: VL042460.D
Acq: 01 May 2025 10:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 43 Resp: 21761

Ion	Ratio	Lower	Upper
43	100		
45	9.9	7.8	11.6
61	9.1	7.2	10.8
70	9.5	7.2	10.8

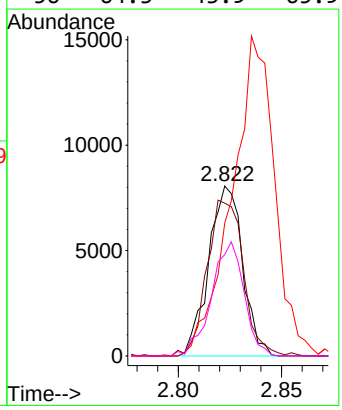


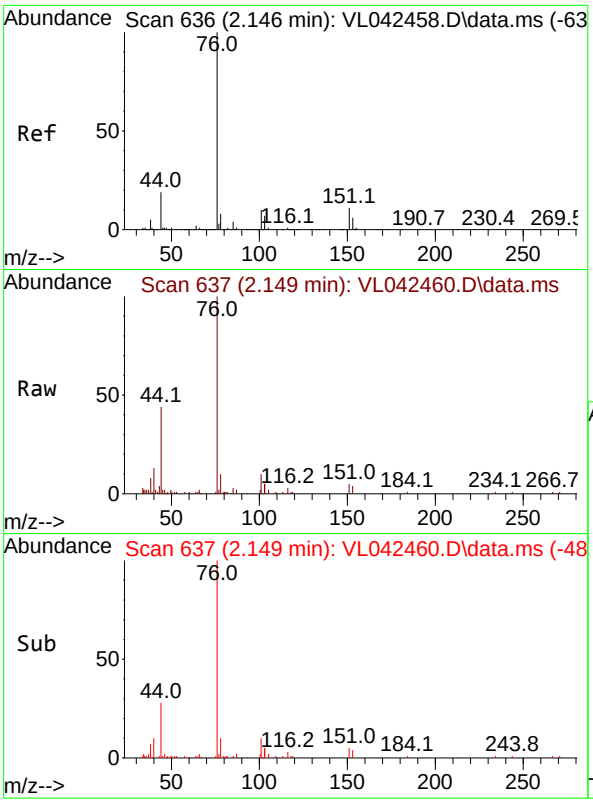


#26
Hexane
Concen: 1.013 ppbv
RT: 2.822 min Scan# 845
Delta R.T. -0.003 min
Lab File: VL042460.D
Acq: 01 May 2025 10:08

Tgt Ion: 57 Resp: 9223

Ion	Ratio	Lower	Upper
57	100		
41	98.1	77.8	116.8
43	237.0	187.0	280.6
56	64.3	43.9	65.9



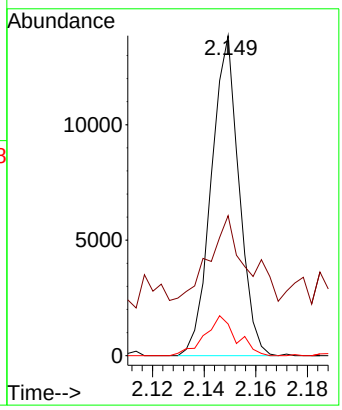


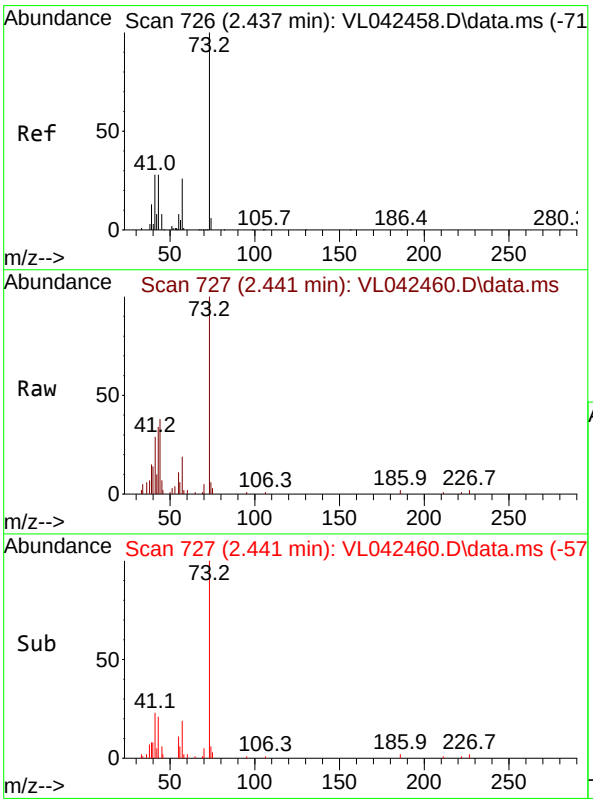
#27
Carbon Disulfide
Concen: 0.973 ppbv
RT: 2.149 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL042460.D
Acq: 01 May 2025 10:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 76 Resp: 10342

Ion	Ratio	Lower	Upper
76	100		
44	81.2	21.0	31.6#
78	14.3	8.6	13.0#

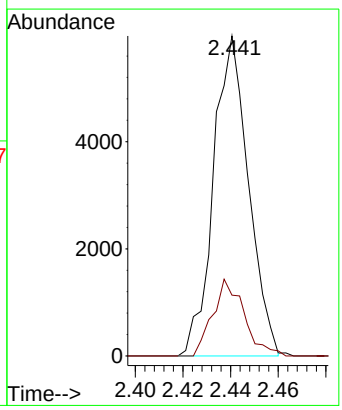


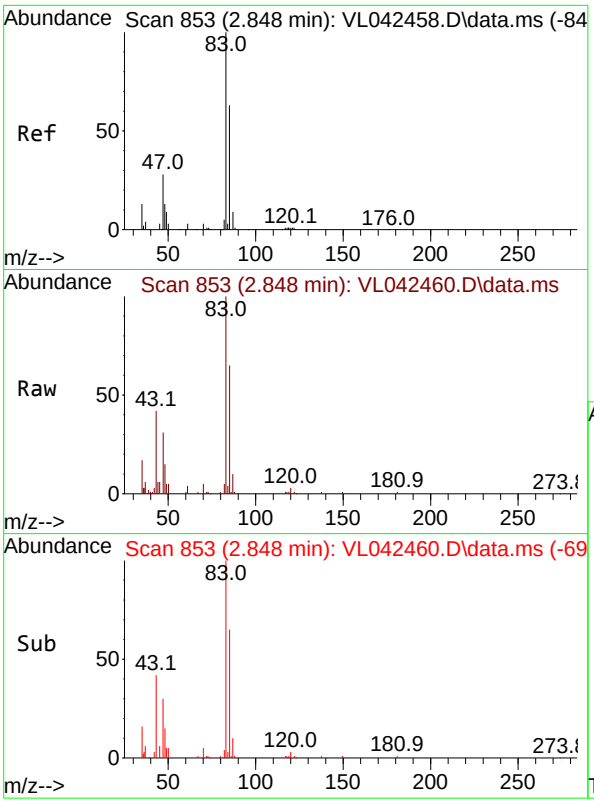


#28
Methyl tert-Butyl Ether
Concen: 1.115 ppbv
RT: 2.441 min Scan# 727
Delta R.T. 0.003 min
Lab File: VL042460.D
Acq: 01 May 2025 10:08

Tgt Ion: 73 Resp: 6101

Ion	Ratio	Lower	Upper
73	100		
57	21.5	19.9	29.9



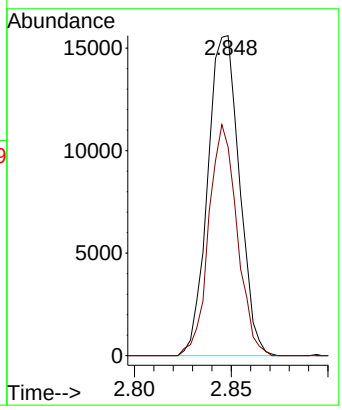


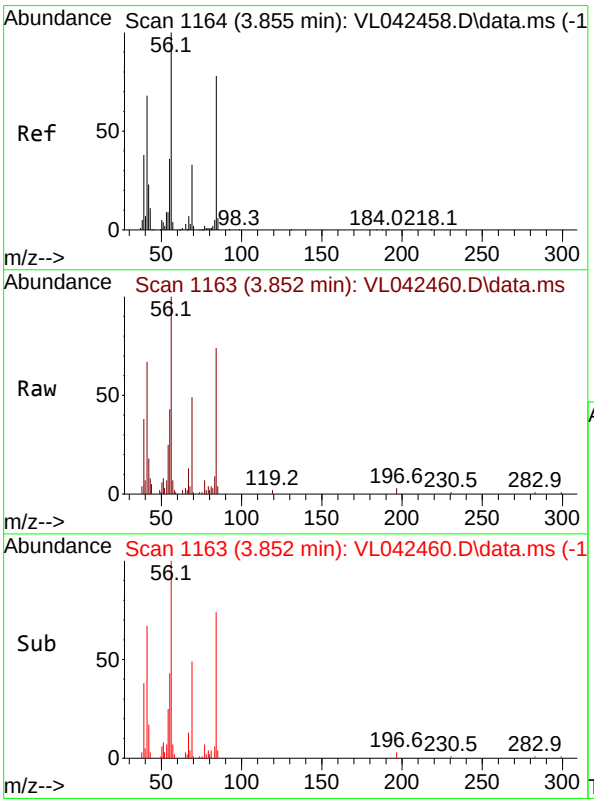
#29
Chloroform
Concen: 1.040 ppbv
RT: 2.848 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL042460.D
Acq: 01 May 2025 10:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 83 Resp: 17744

Ion	Ratio	Lower	Upper
83	100		
85	65.2	50.4	75.6

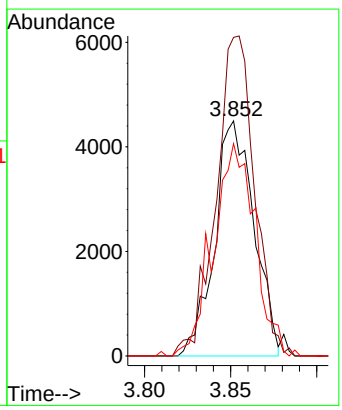


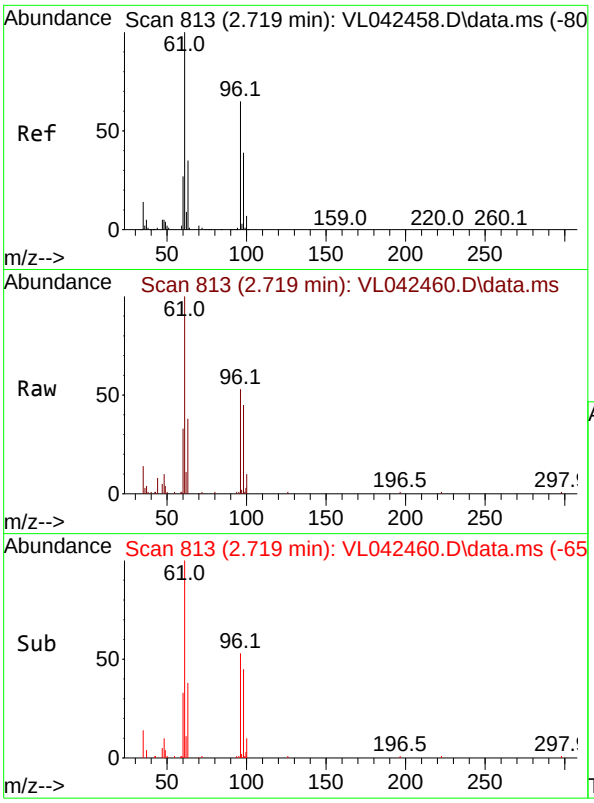


#30
Cyclohexane
Concen: 0.938 ppbv
RT: 3.852 min Scan# 1163
Delta R.T. -0.003 min
Lab File: VL042460.D
Acq: 01 May 2025 10:08

Tgt Ion: 84 Resp: 7139

Ion	Ratio	Lower	Upper
84	100		
56	133.7	98.1	147.1
41	95.9	65.8	98.8



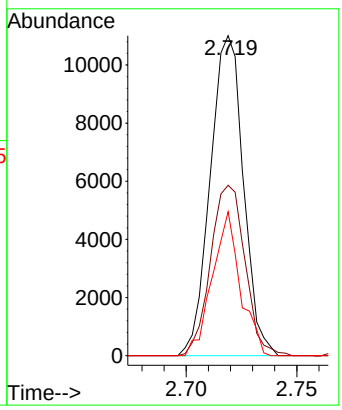


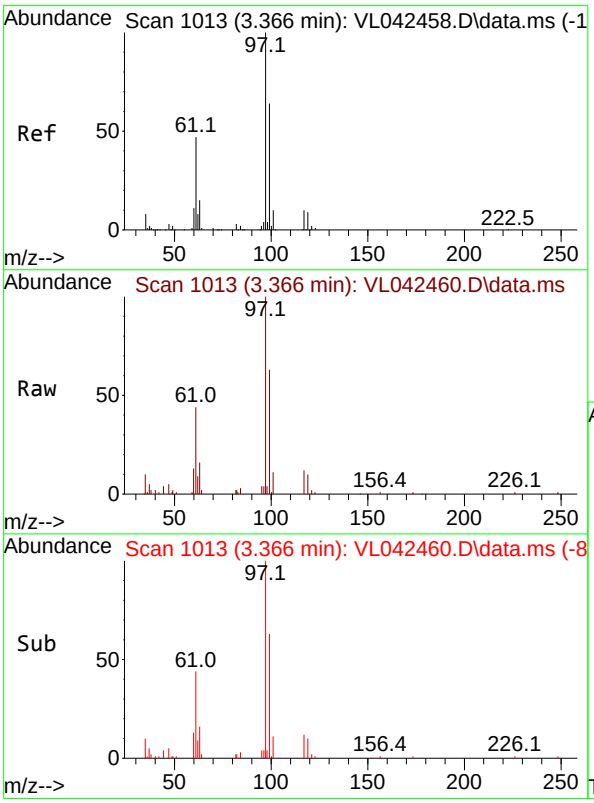
#31
cis-1,2-Dichloroethene
Concen: 1.080 ppbv
RT: 2.719 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL042460.D
Acq: 01 May 2025 10:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 61 Resp: 11472

Ion	Ratio	Lower	Upper
61	100		
96	53.3	52.0	78.0
98	45.0	31.0	46.6

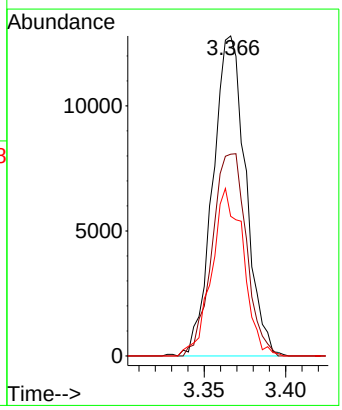


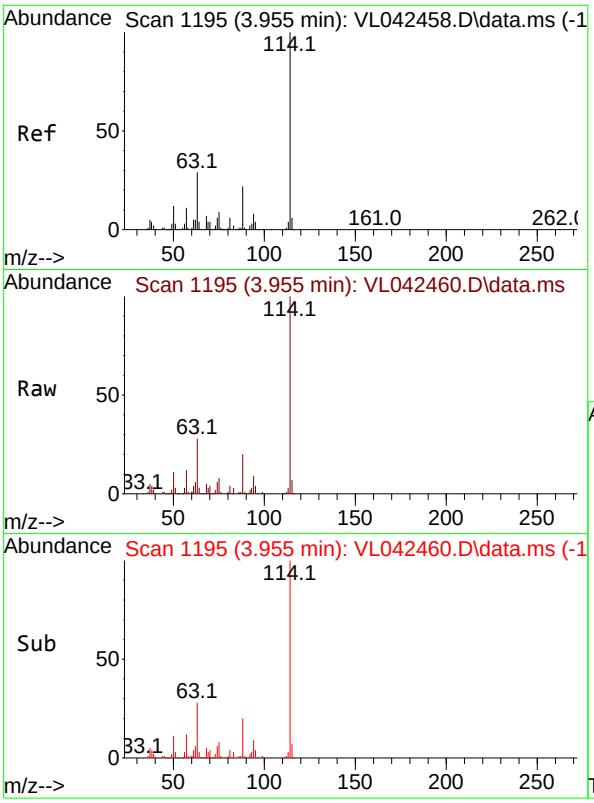


#32
1,1,1-Trichloroethane
Concen: 0.966 ppbv
RT: 3.366 min Scan# 1013
Delta R.T. -0.000 min
Lab File: VL042460.D
Acq: 01 May 2025 10:08

Tgt Ion: 97 Resp: 17881

Ion	Ratio	Lower	Upper
97	100		
99	65.8	50.7	76.1
61	50.6	40.9	61.3



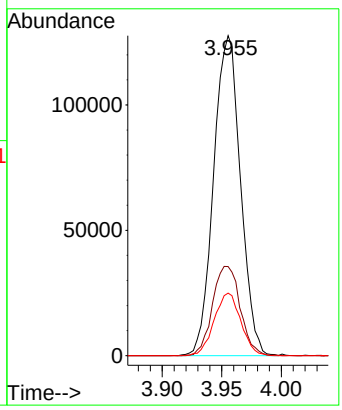


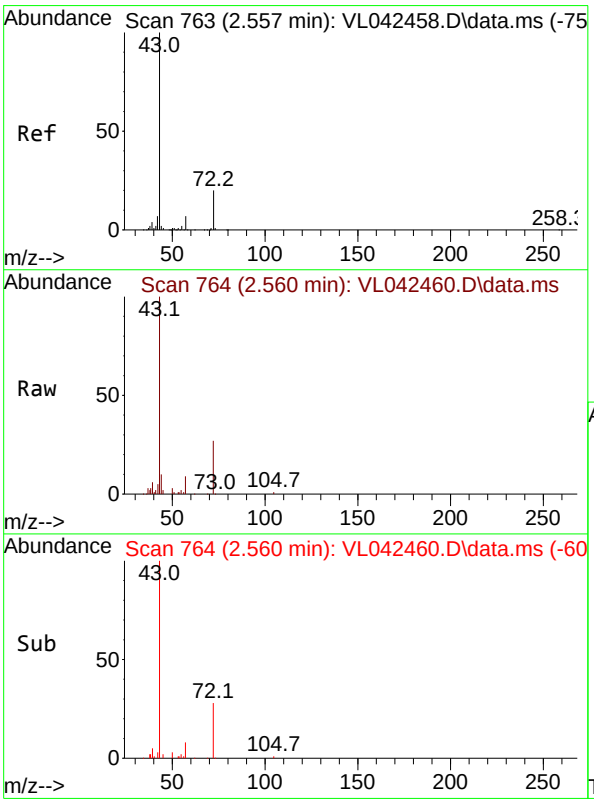
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.955 min Scan# 11
Delta R.T. -0.000 min
Lab File: VL042460.D
Acq: 01 May 2025 10:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion:114 Resp: 200111

Ion	Ratio	Lower	Upper
114	100		
63	28.8	23.1	34.7
88	19.4	16.1	24.1

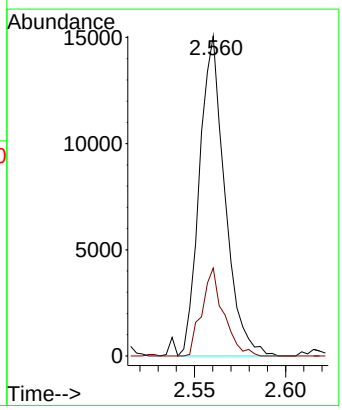


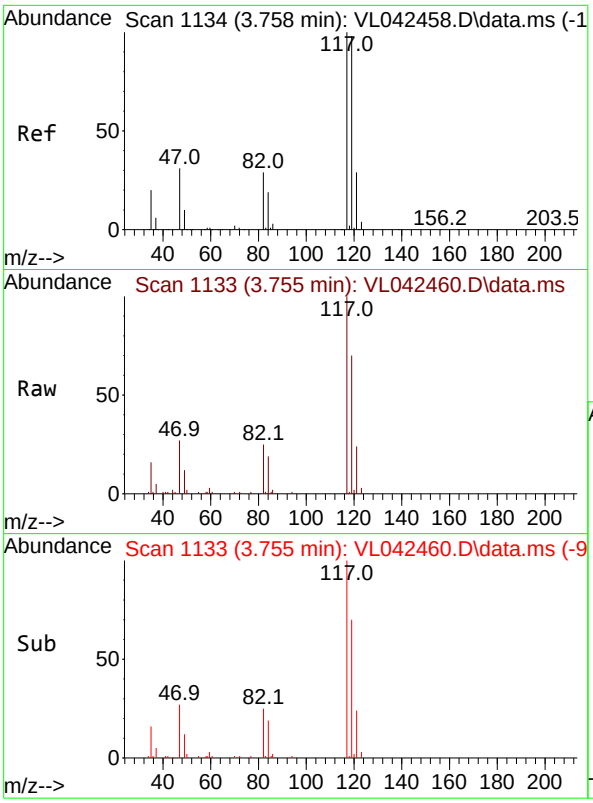


#34
2-Butanone
Concen: 1.012 ppbv
RT: 2.560 min Scan# 764
Delta R.T. 0.003 min
Lab File: VL042460.D
Acq: 01 May 2025 10:08

Tgt Ion: 43 Resp: 14641

Ion	Ratio	Lower	Upper
43	100		
72	23.5	16.7	25.1



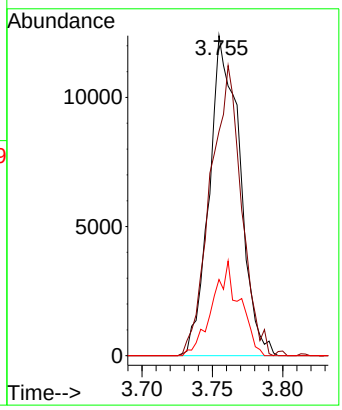


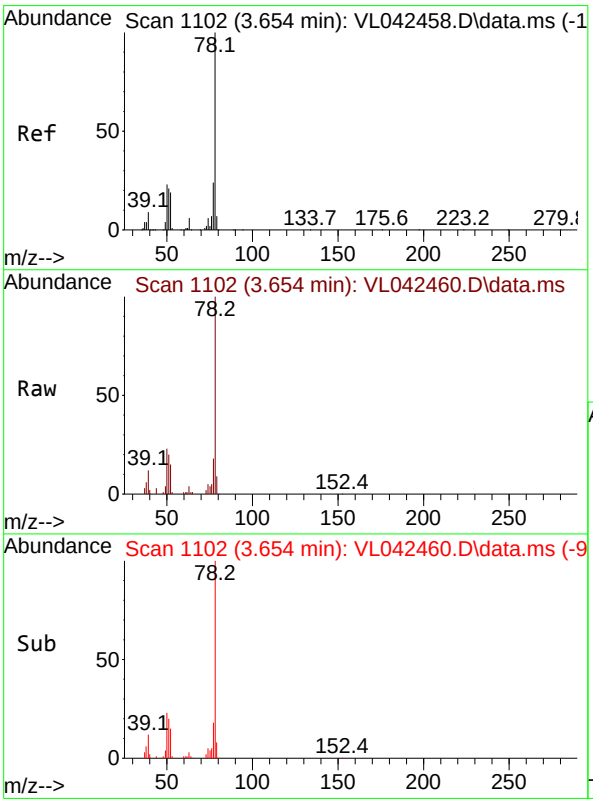
#35
Carbon Tetrachloride
Concen: 1.075 ppbv
RT: 3.755 min Scan# 11
Delta R.T. -0.003 min
Lab File: VL042460.D
Acq: 01 May 2025 10:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion:117 Resp: 18704

Ion	Ratio	Lower	Upper
117	100		
119	70.1	78.1	117.1#
121	23.8	23.0	34.6

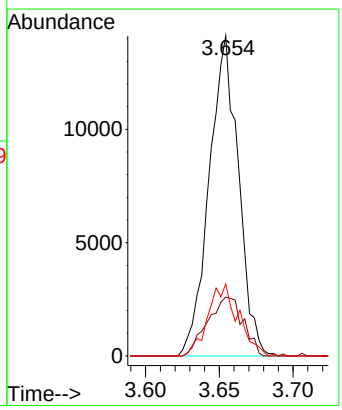


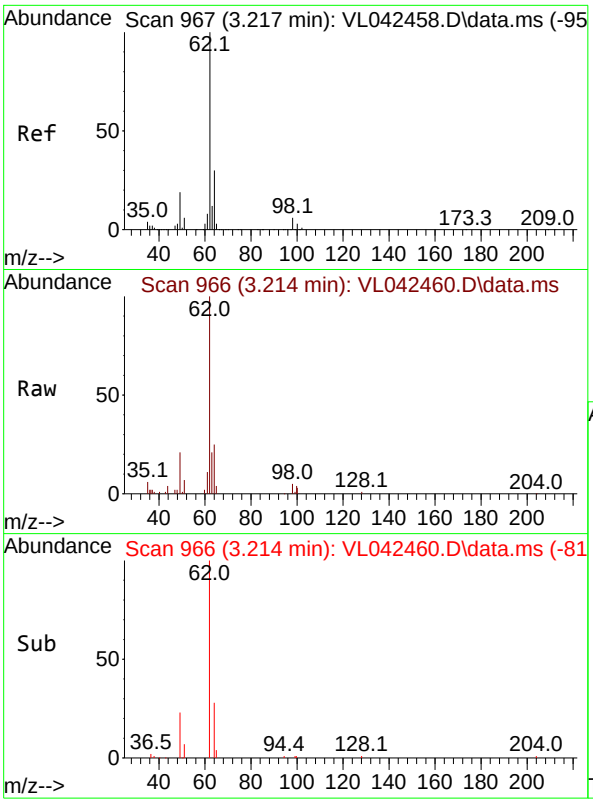


#36
Benzene
Concen: 1.032 ppbv
RT: 3.654 min Scan# 1102
Delta R.T. -0.000 min
Lab File: VL042460.D
Acq: 01 May 2025 10:08

Tgt Ion: 78 Resp: 19493

Ion	Ratio	Lower	Upper
78	100		
77	18.4	18.9	28.3#
50	22.5	18.4	27.6



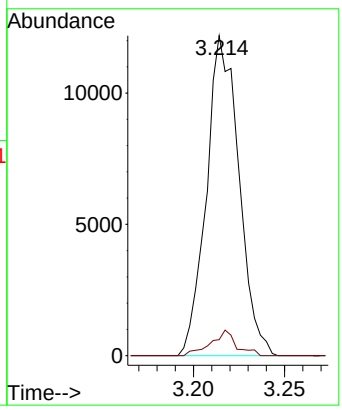


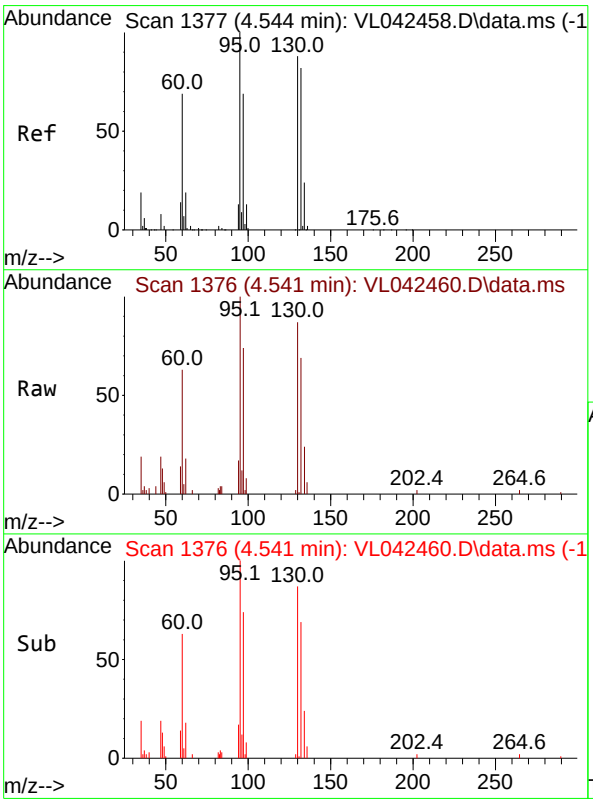
#37
1,2-Dichloroethane
Concen: 1.039 ppbv
RT: 3.214 min Scan# 9
Delta R.T. -0.003 min
Lab File: VL042460.D
Acq: 01 May 2025 10:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 62 Resp: 15116

Ion	Ratio	Lower	Upper
62	100		
98	6.2	4.3	6.5

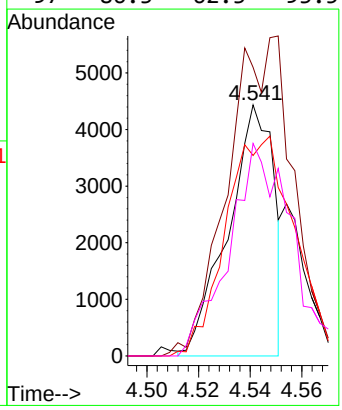


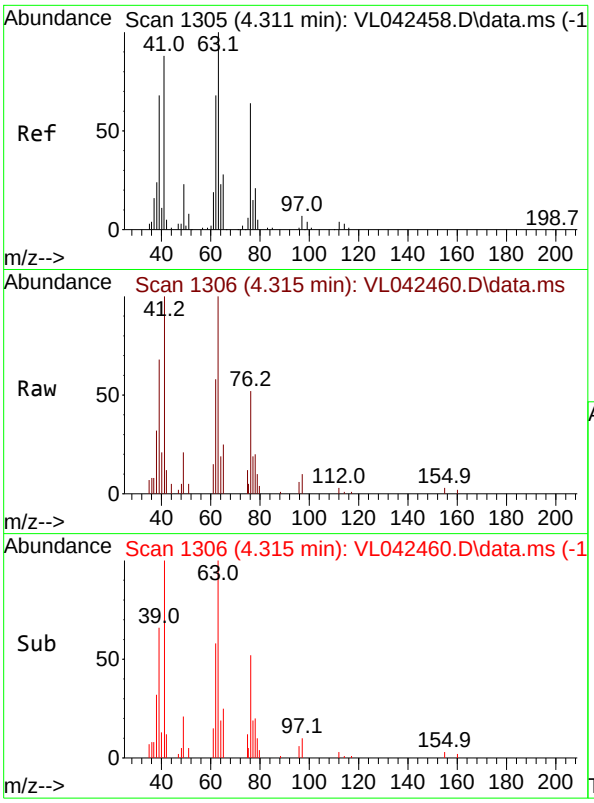


#38
Trichloroethene
Concen: 0.759 ppbv
RT: 4.541 min Scan# 1376
Delta R.T. -0.003 min
Lab File: VL042460.D
Acq: 01 May 2025 10:08

Tgt Ion:130 Resp: 5464

Ion	Ratio	Lower	Upper
130	100		
95	111.8	91.0	136.4
132	79.5	74.2	111.4
97	86.3	62.3	93.5



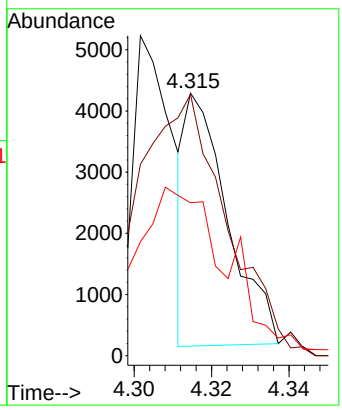


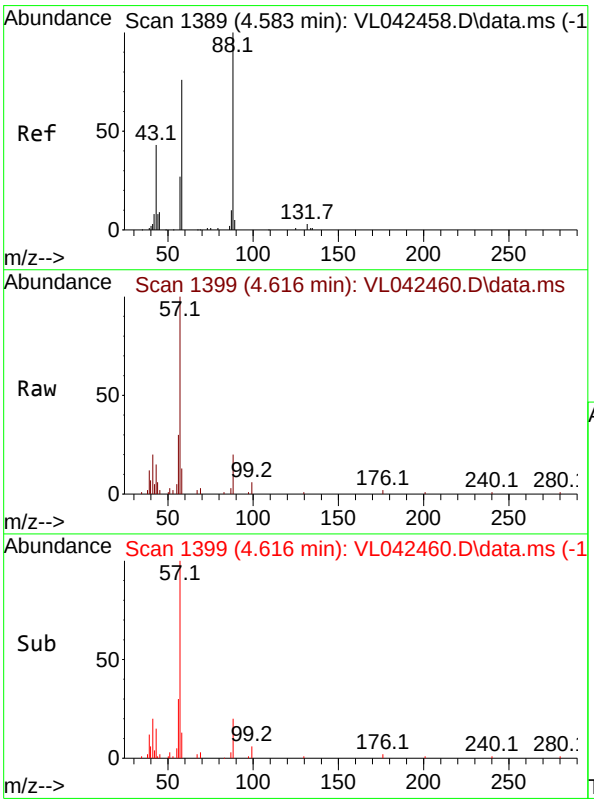
#39
1,2-Dichloropropane
Concen: 0.441 ppbv
RT: 4.315 min Scan# 1
Delta R.T. 0.003 min
Lab File: VL042460.D
Acq: 01 May 2025 10:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 63 Resp: 3118

Ion	Ratio	Lower	Upper
63	100		
41	93.5	69.8	104.6
62	49.2	54.3	81.5#

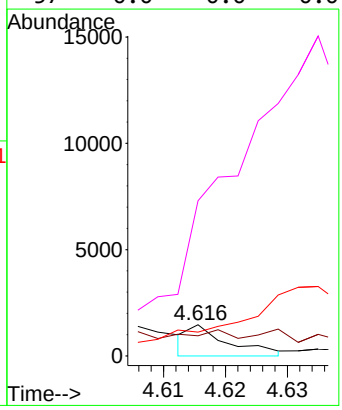


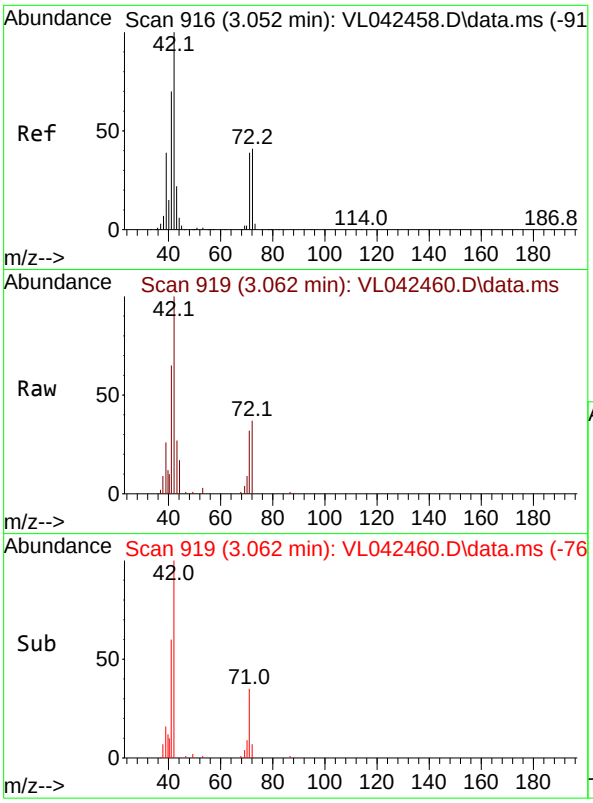


#40
1,4-Dioxane
Concen: 0.199 ppbv
RT: 4.616 min Scan# 1399
Delta R.T. 0.032 min
Lab File: VL042460.D
Acq: 01 May 2025 10:08

Tgt Ion: 88 Resp: 653

Ion	Ratio	Lower	Upper
88	100		
58	0.0	0.0	0.0
43	0.0	0.0	0.0
57	0.0	0.0	0.0



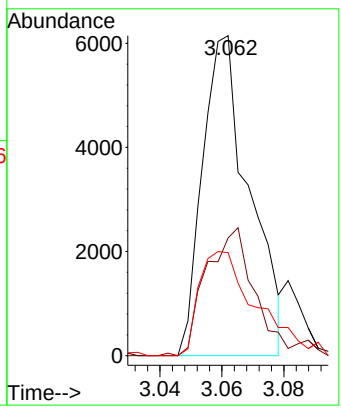


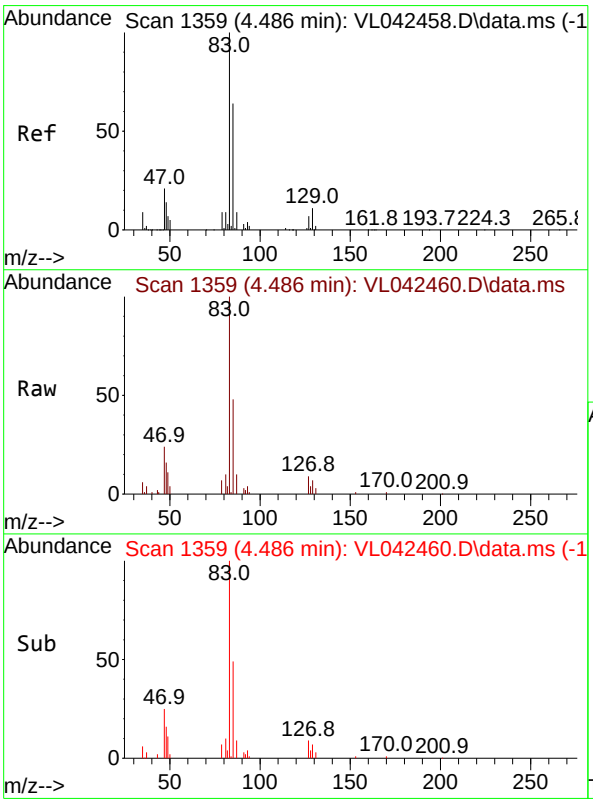
#41
Tetrahydrofuran
Concen: 0.938 ppbv
RT: 3.062 min Scan# 91
Delta R.T. 0.010 min
Lab File: VL042460.D
Acq: 01 May 2025 10:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 42 Resp: 6436

Ion	Ratio	Lower	Upper
42	100		
72	42.8	33.5	50.3
71	40.7	32.6	49.0

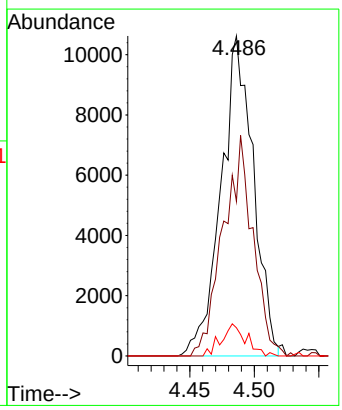


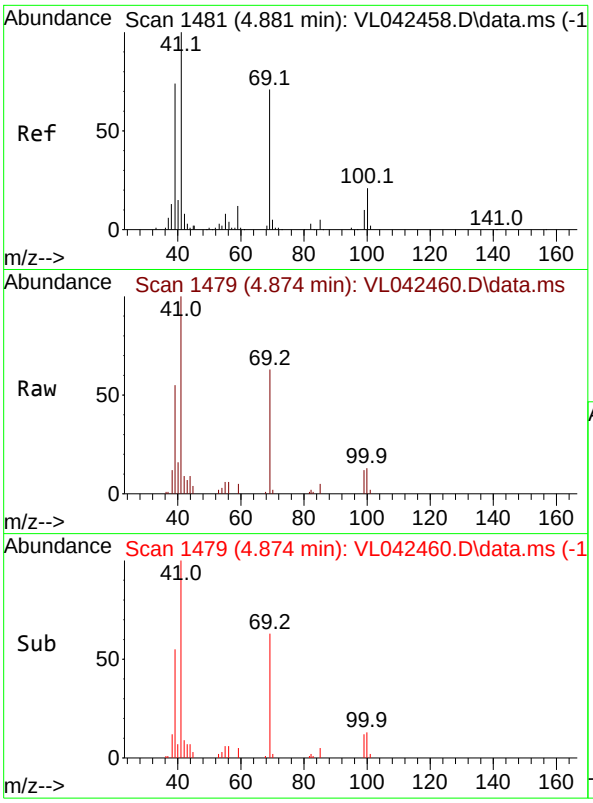


#42
Bromodichloromethane
Concen: 1.036 ppbv
RT: 4.486 min Scan# 1359
Delta R.T. -0.000 min
Lab File: VL042460.D
Acq: 01 May 2025 10:08

Tgt Ion: 83 Resp: 18427

Ion	Ratio	Lower	Upper
83	100		
85	48.3	51.5	77.3#
127	8.8	5.4	8.2#



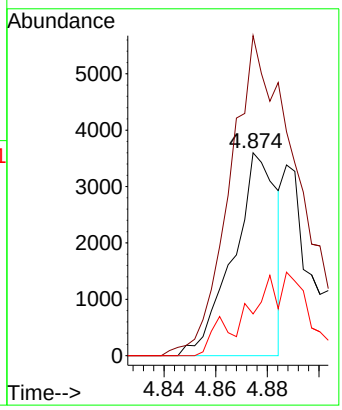


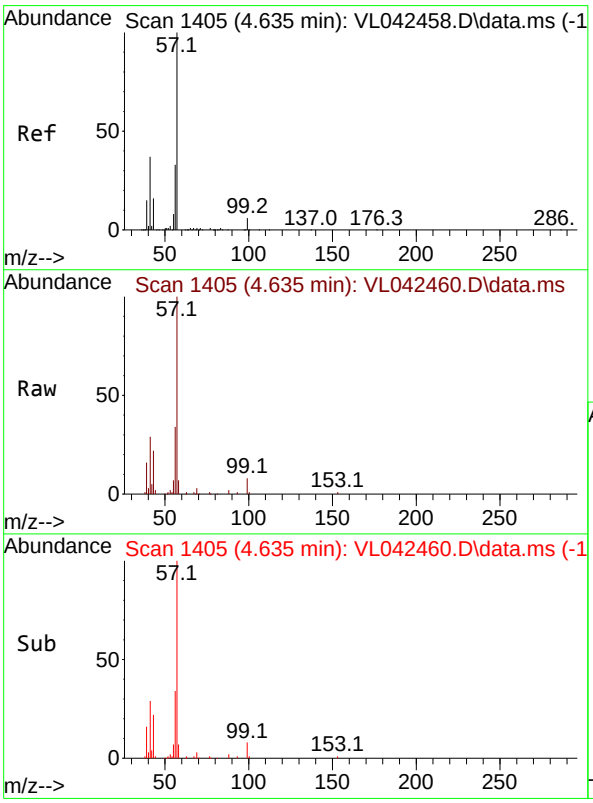
#43
Methyl Methacrylate
Concen: 0.595 ppbv
RT: 4.874 min Scan# 14
Delta R.T. -0.006 min
Lab File: VL042460.D
Acq: 01 May 2025 10:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 69 Resp: 4182

Ion	Ratio	Lower	Upper
69	100		
41	251.7	120.8	181.2#
100	0.0	26.7	40.1#

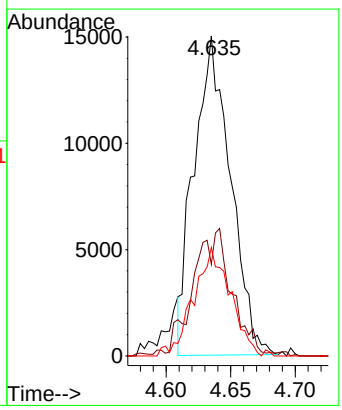


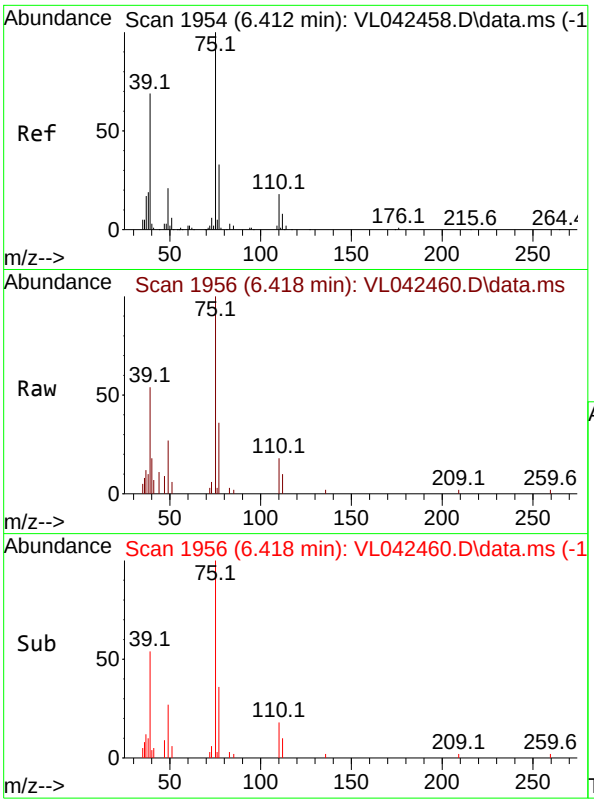


#44
2,2,4-Trimethylpentane
Concen: 0.963 ppbv
RT: 4.635 min Scan# 1405
Delta R.T. -0.000 min
Lab File: VL042460.D
Acq: 01 May 2025 10:08

Tgt Ion: 57 Resp: 29395

Ion	Ratio	Lower	Upper
57	100		
41	43.3	30.6	45.8
56	34.5	25.0	37.6



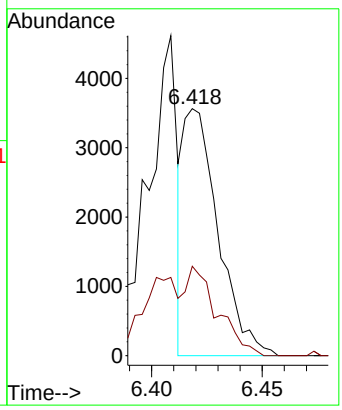


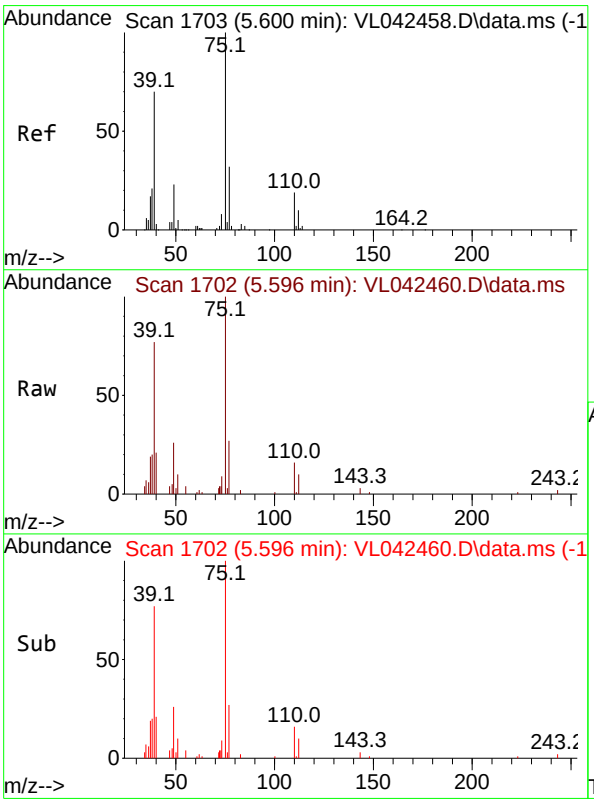
#45
t-1,3-Dichloropropene
Concen: 0.423 ppbv
RT: 6.418 min Scan# 1
Delta R.T. 0.006 min
Lab File: VL042460.D
Acq: 01 May 2025 10:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 75 Resp: 3916

Ion	Ratio	Lower	Upper
75	100		
77	36.2	26.3	39.5

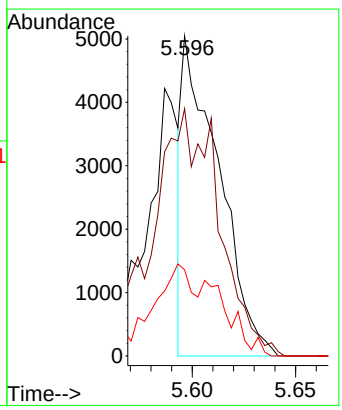


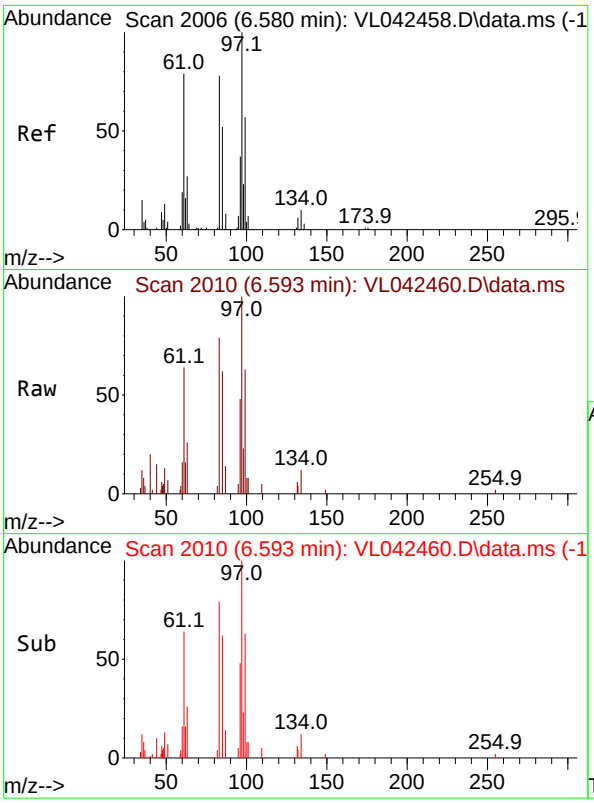


#46
cis-1,3-Dichloropropene
Concen: 0.563 ppbv
RT: 5.596 min Scan# 1702
Delta R.T. -0.003 min
Lab File: VL042460.D
Acq: 01 May 2025 10:08

Tgt Ion: 75 Resp: 6187

Ion	Ratio	Lower	Upper
75	100		
39	75.9	55.7	83.5
77	27.0	25.8	38.8



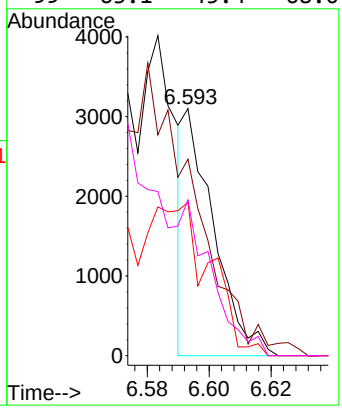


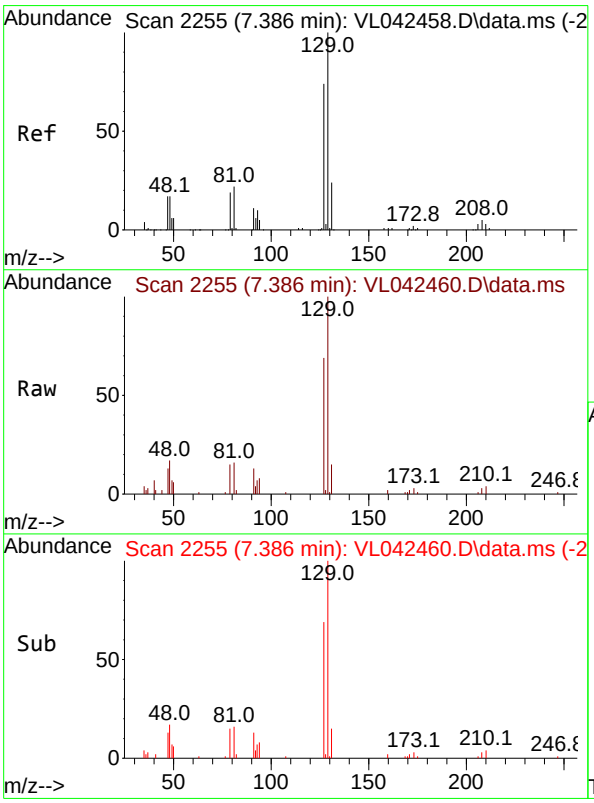
#47
1,1,2-Trichloroethane
Concen: 0.269 ppbv
RT: 6.593 min Scan# 2
Delta R.T. 0.013 min
Lab File: VL042460.D
Acq: 01 May 2025 10:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 97 Resp: 2088

Ion	Ratio	Lower	Upper
97	100		
83	74.5	62.2	93.2
85	62.0	41.5	62.3
99	63.1	45.4	68.0

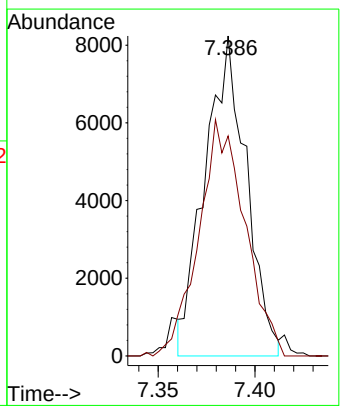


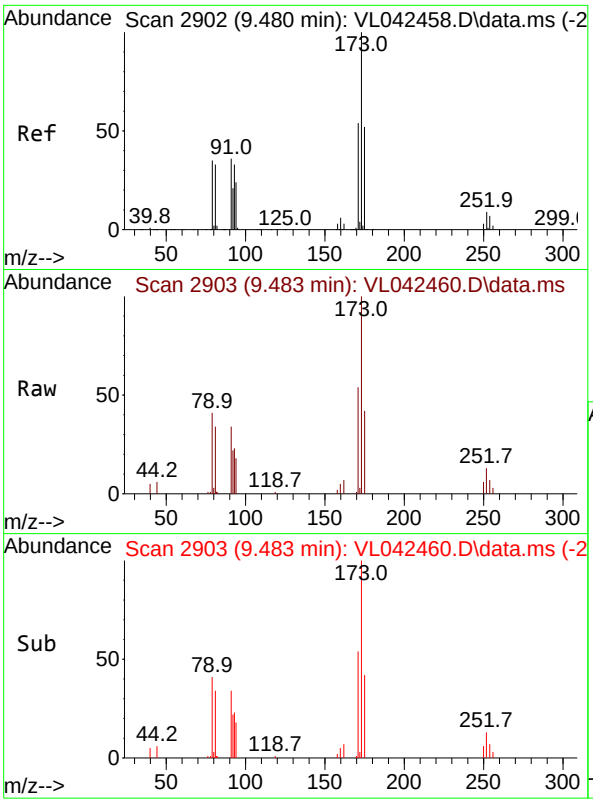


#48
Dibromochloromethane
Concen: 0.933 ppbv
RT: 7.386 min Scan# 2255
Delta R.T. -0.000 min
Lab File: VL042460.D
Acq: 01 May 2025 10:08

Tgt Ion:129 Resp: 12205

Ion	Ratio	Lower	Upper
129	100		
127	82.2	39.5	118.5



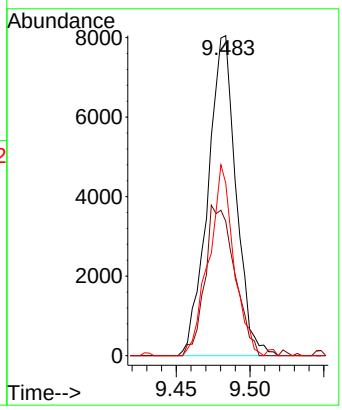


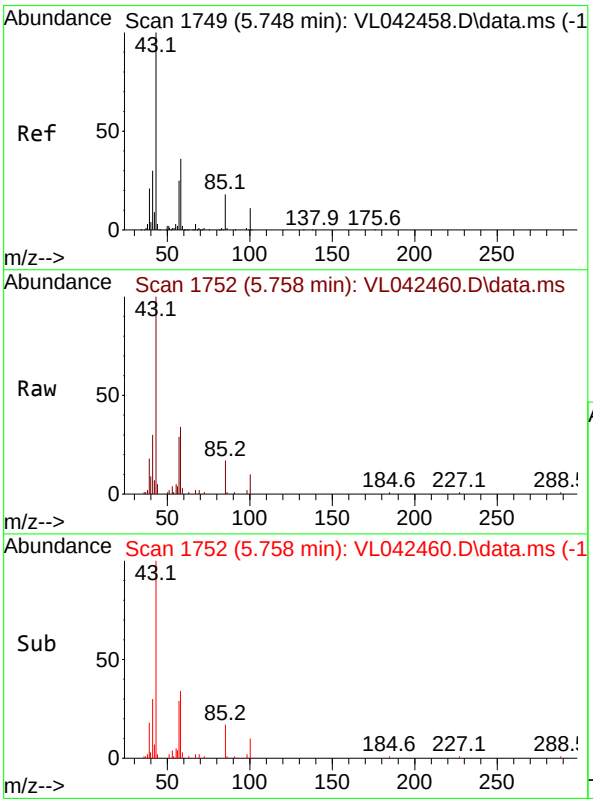
#49
Bromoform
Concen: 0.976 ppbv
RT: 9.483 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042460.D
Acq: 01 May 2025 10:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion:173 Resp: 10709

Ion	Ratio	Lower	Upper
173	100		
175	49.4	38.9	58.3
171	53.5	40.6	60.8

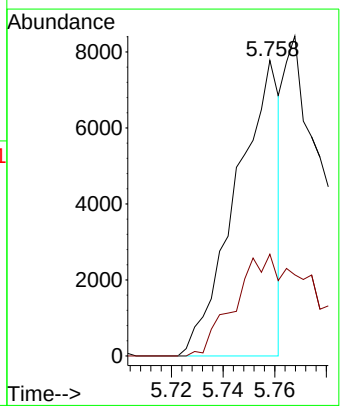


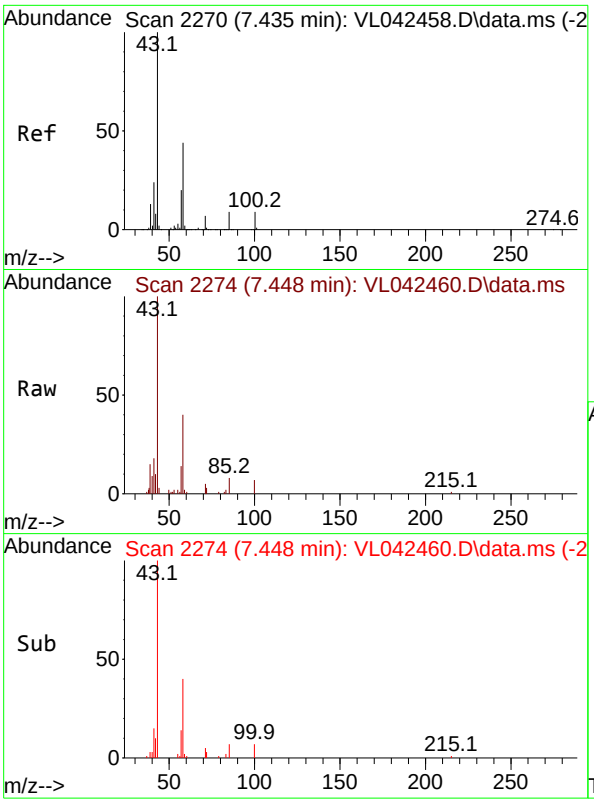


#50
4-Methyl-2-Pentanone
Concen: 0.493 ppbv
RT: 5.758 min Scan# 1752
Delta R.T. 0.010 min
Lab File: VL042460.D
Acq: 01 May 2025 10:08

Tgt Ion: 43 Resp: 9019

Ion	Ratio	Lower	Upper
43	100		
58	70.8	29.5	44.3#



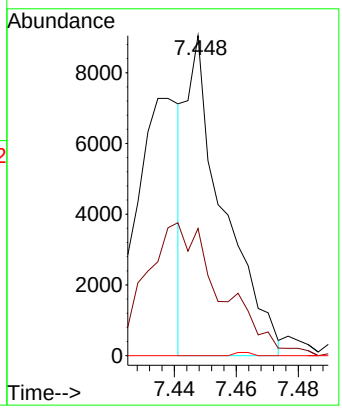


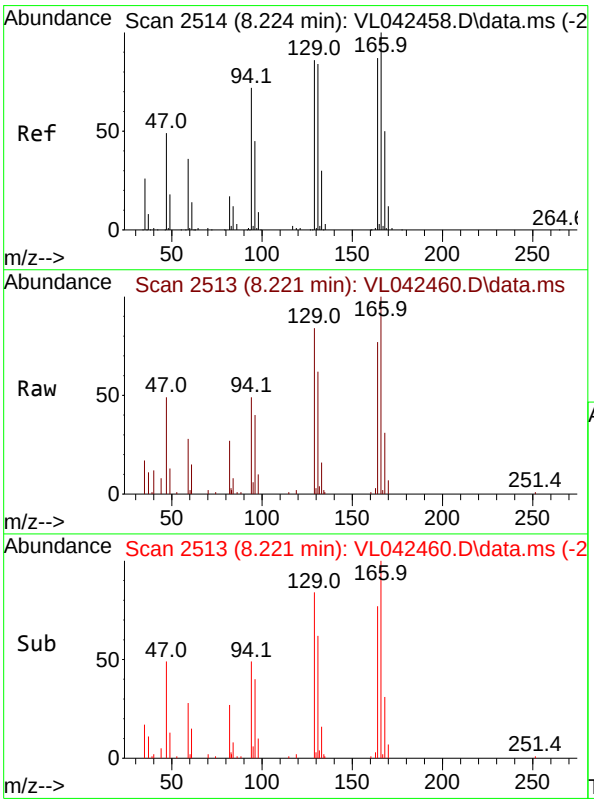
#51
2-Hexanone
Concen: 0.512 ppbv
RT: 7.448 min Scan# 2
Delta R.T. 0.013 min
Lab File: VL042460.D
Acq: 01 May 2025 10:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 43 Resp: 7505

Ion	Ratio	Lower	Upper
43	100		
58	0.0	37.2	55.8#
98	0.5	0.4	0.6

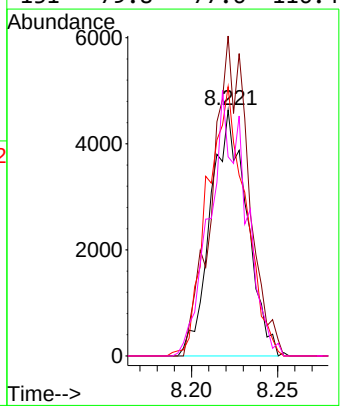


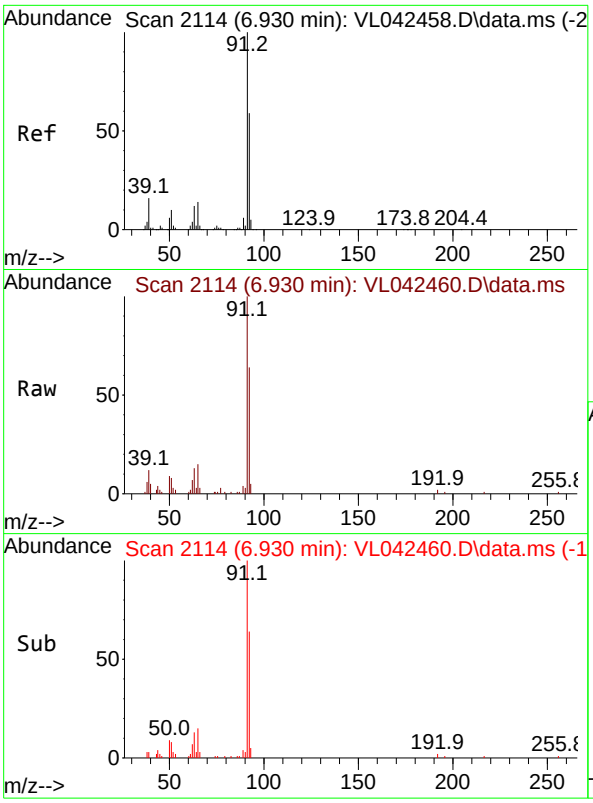


#52
Tetrachloroethene
Concen: 0.943 ppbv
RT: 8.221 min Scan# 2513
Delta R.T. -0.003 min
Lab File: VL042460.D
Acq: 01 May 2025 10:08

Tgt Ion:164 Resp: 6780

Ion	Ratio	Lower	Upper
164	100		
166	130.2	91.6	137.4
129	107.6	79.0	118.4
131	79.8	77.6	116.4



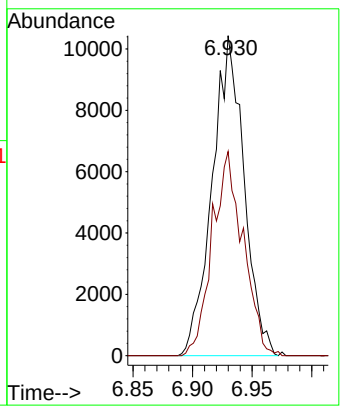


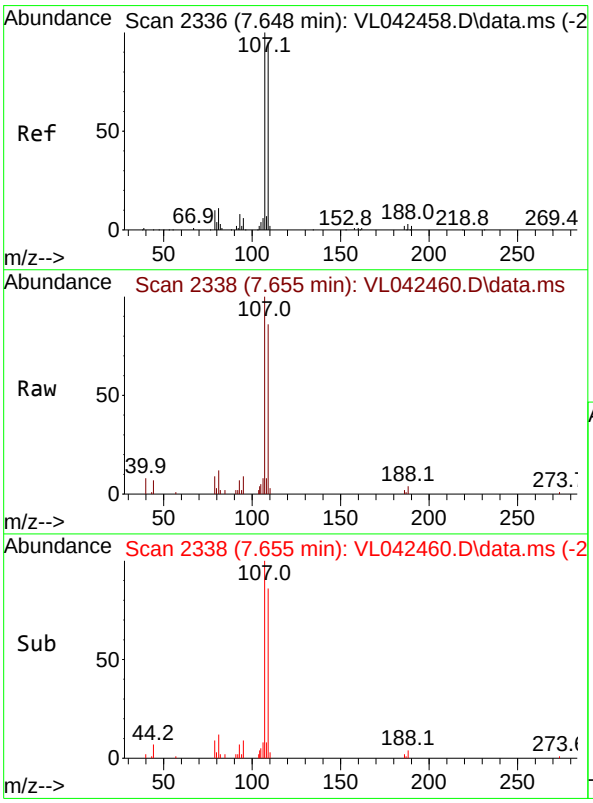
#53
Toluene
Concen: 0.970 ppbv
RT: 6.930 min Scan# 21
Delta R.T. -0.000 min
Lab File: VL042460.D
Acq: 01 May 2025 10:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 91 Resp: 19390

Ion	Ratio	Lower	Upper
91	100		
92	61.9	47.9	71.9

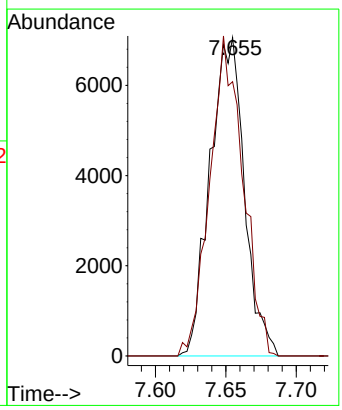


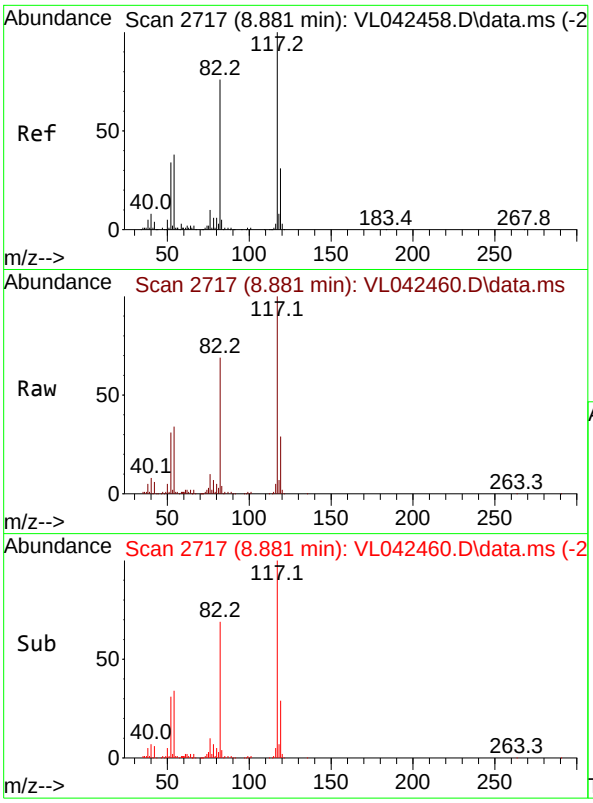


#54
1,2-Dibromoethane
Concen: 1.005 ppbv
RT: 7.655 min Scan# 2338
Delta R.T. 0.006 min
Lab File: VL042460.D
Acq: 01 May 2025 10:08

Tgt Ion:107 Resp: 11980

Ion	Ratio	Lower	Upper
107	100		
109	86.2	76.0	114.0



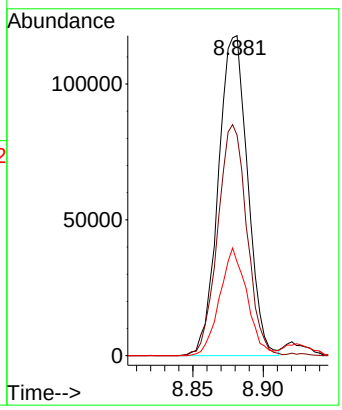


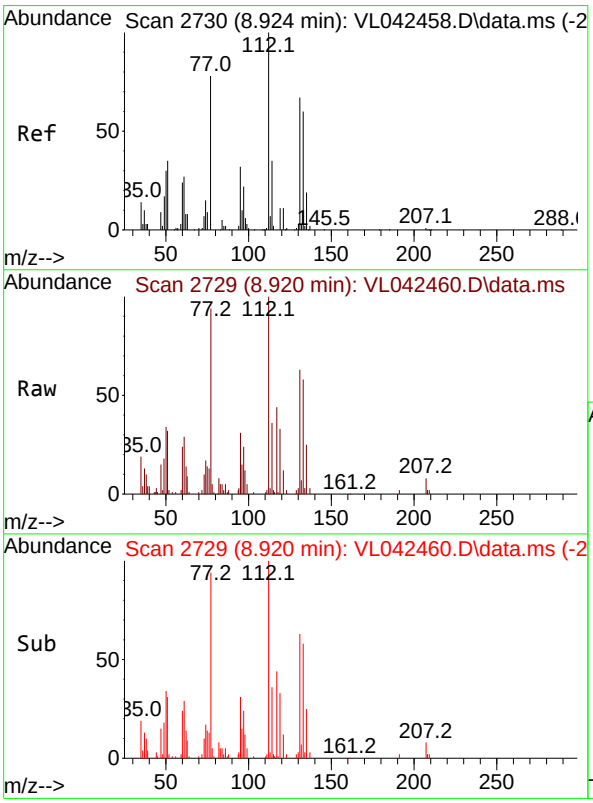
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.881 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL042460.D
Acq: 01 May 2025 10:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion:117 Resp: 170872

Ion	Ratio	Lower	Upper
117	100		
82	72.3	63.5	95.3
119	31.4	25.8	38.8

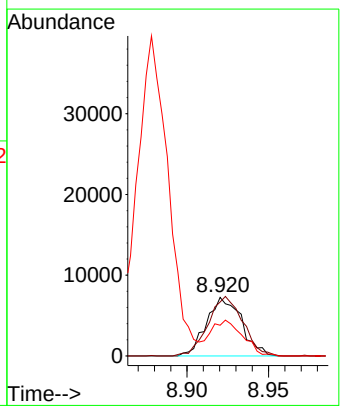


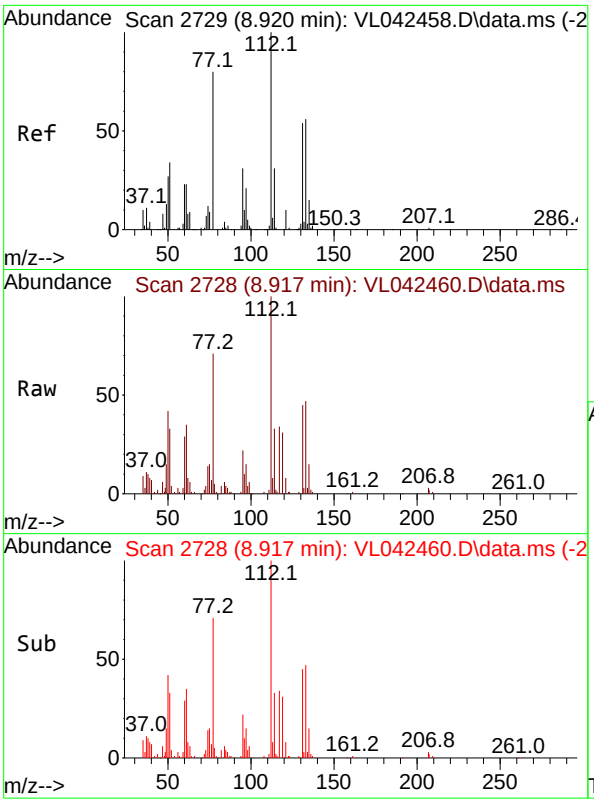


#56
1,1,1,2-Tetrachloroethane
Concen: 1.071 ppbv
RT: 8.920 min Scan# 2729
Delta R.T. -0.003 min
Lab File: VL042460.D
Acq: 01 May 2025 10:08

Tgt Ion:131 Resp: 10811

Ion	Ratio	Lower	Upper
131	100		
133	100.8	76.0	114.0
119	53.6	46.1	69.1



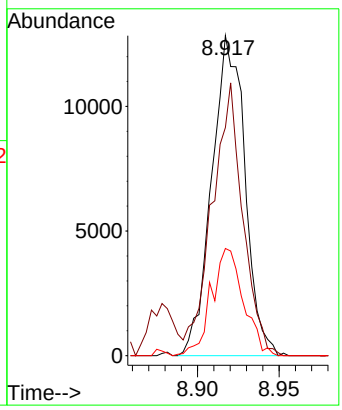


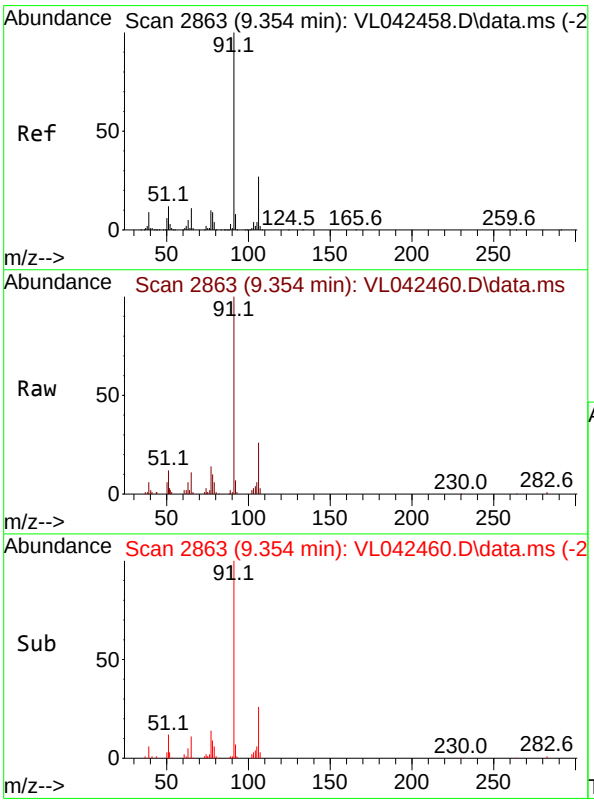
#57
Chlorobenzene
Concen: 1.055 ppbv
RT: 8.917 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL042460.D
Acq: 01 May 2025 10:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion:112 Resp: 18111

Ion	Ratio	Lower	Upper
112	100		
77	70.3	65.0	97.4
114	33.5	27.5	33.7

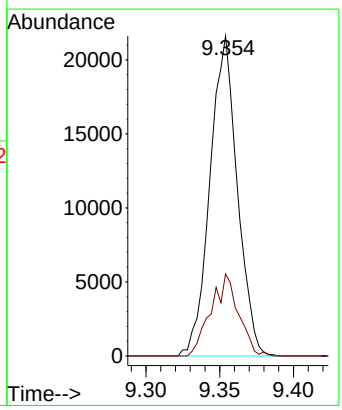


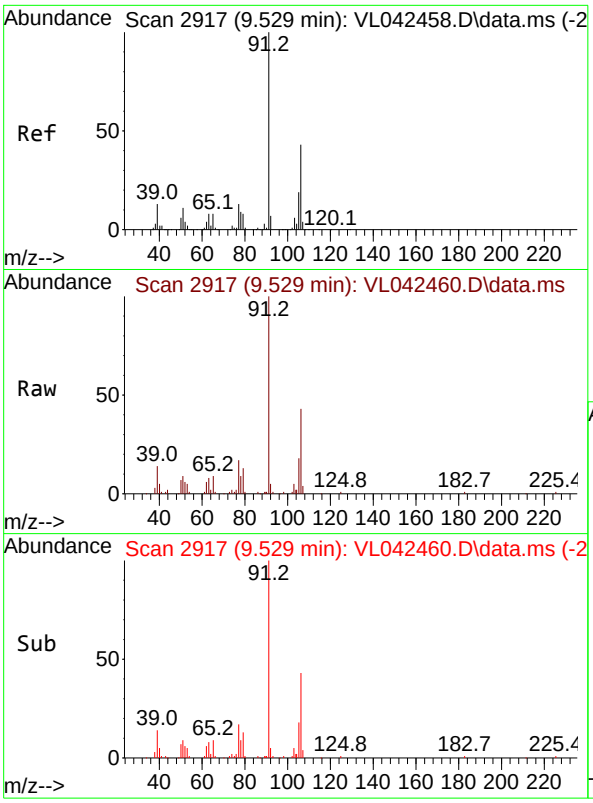


#58
Ethyl Benzene
Concen: 0.978 ppbv
RT: 9.354 min Scan# 2863
Delta R.T. -0.000 min
Lab File: VL042460.D
Acq: 01 May 2025 10:08

Tgt Ion: 91 Resp: 27914

Ion	Ratio	Lower	Upper
91	100		
106	25.6	21.9	32.9



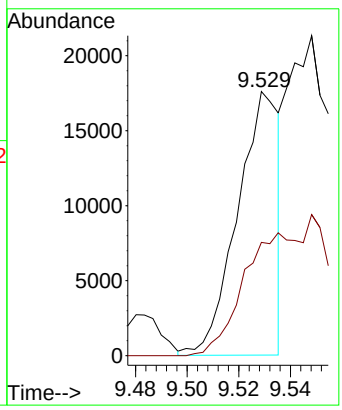


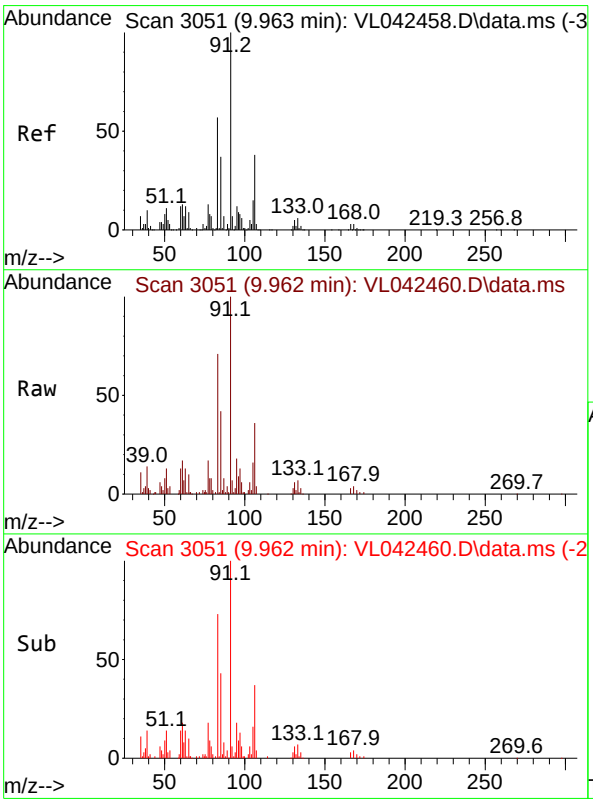
#59
m/p-Xylene
Concen: 0.817 ppbv
RT: 9.529 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL042460.D
Acq: 01 May 2025 10:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 91 Resp: 19557

Ion	Ratio	Lower	Upper
91	100		
106	0.0	34.2	51.2#

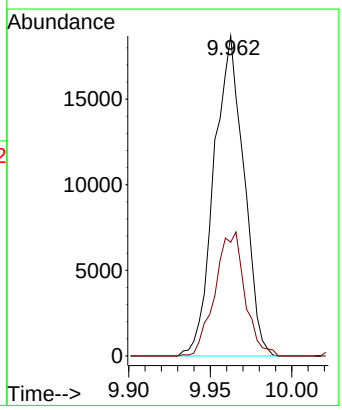


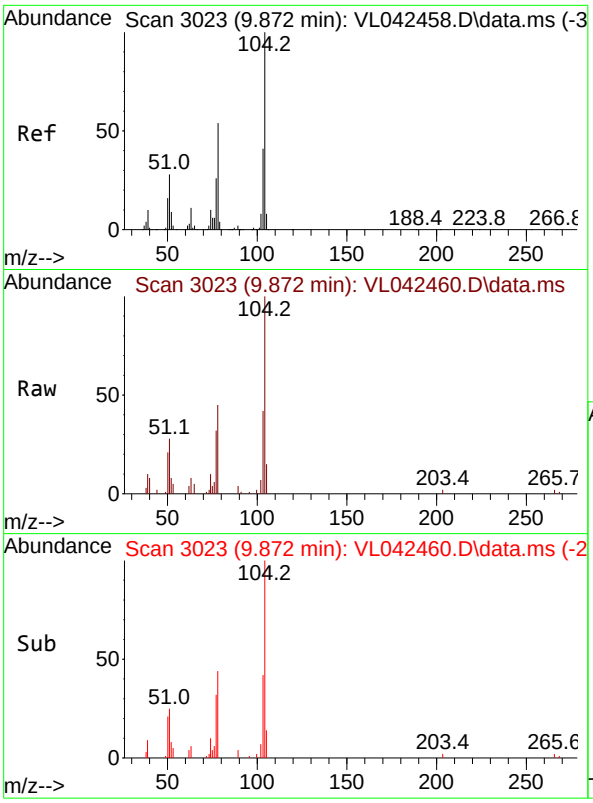


#60
o-Xylene
Concen: 0.995 ppbv
RT: 9.962 min Scan# 3051
Delta R.T. -0.000 min
Lab File: VL042460.D
Acq: 01 May 2025 10:08

Tgt Ion: 91 Resp: 23806

Ion	Ratio	Lower	Upper
91	100		
106	38.7	20.1	60.2



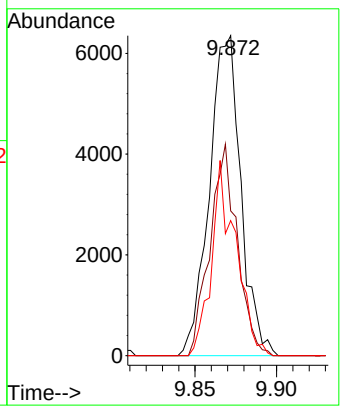


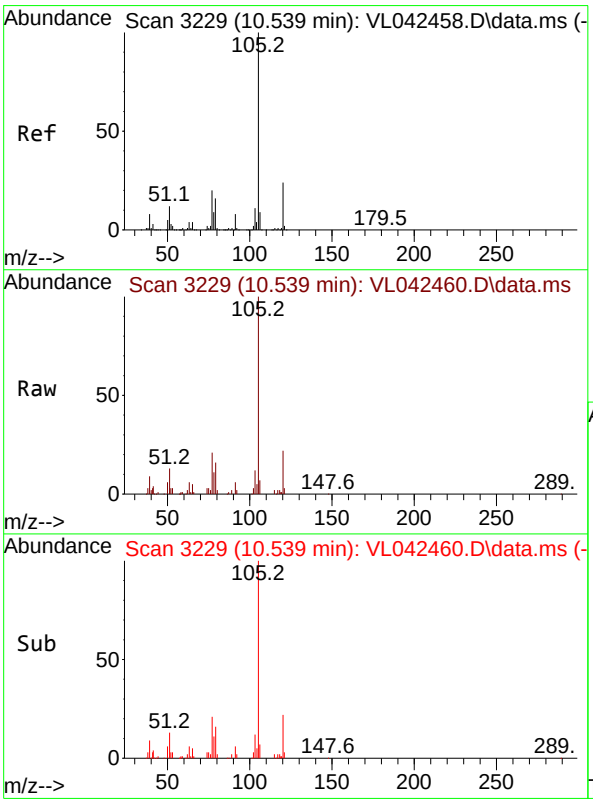
#61
Styrene
Concen: 0.954 ppbv
RT: 9.872 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042460.D
Acq: 01 May 2025 10:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion:104 Resp: 8537

Ion	Ratio	Lower	Upper
104	100		
78	57.2	46.9	70.3
103	47.0	36.6	55.0

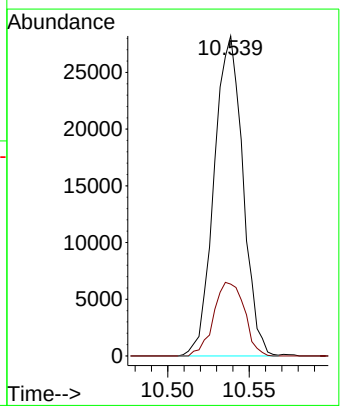


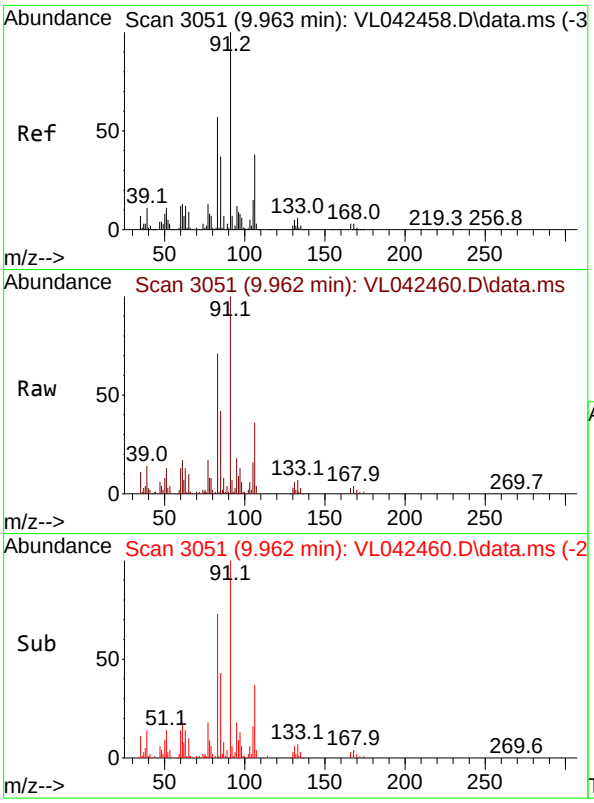


#62
Isopropylbenzene
Concen: 1.003 ppbv
RT: 10.539 min Scan# 3229
Delta R.T. -0.000 min
Lab File: VL042460.D
Acq: 01 May 2025 10:08

Tgt Ion:105 Resp: 34679

Ion	Ratio	Lower	Upper
105	100		
120	24.5	18.8	28.2



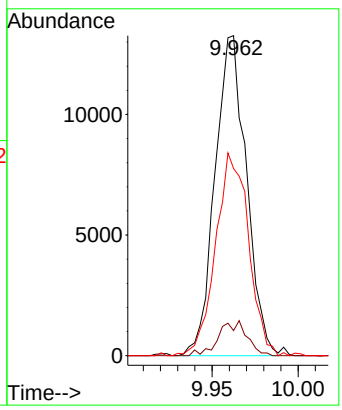


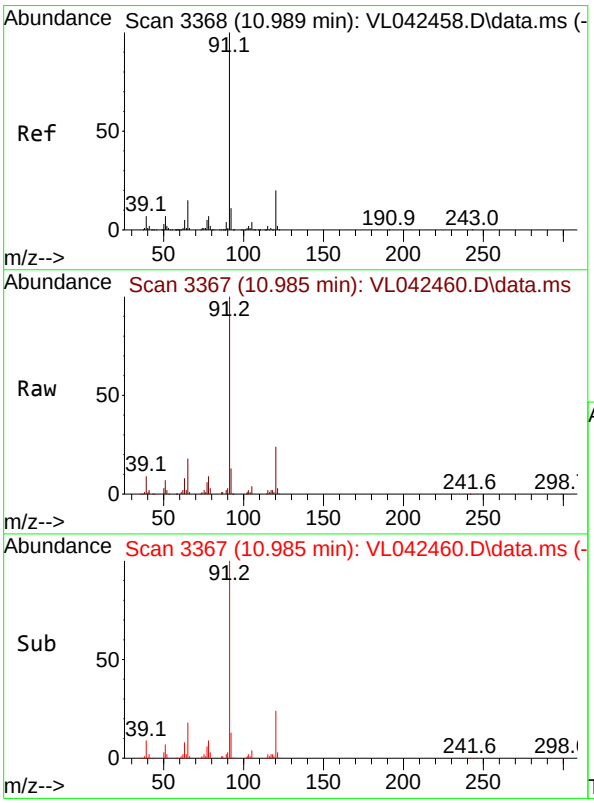
#63
1,1,2,2-Tetrachloroethane
Concen: 1.084 ppbv
RT: 9.962 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042460.D
Acq: 01 May 2025 10:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 83 Resp: 16837

Ion	Ratio	Lower	Upper
83	100		
131	9.8	4.7	14.1
85	66.8	32.5	97.4

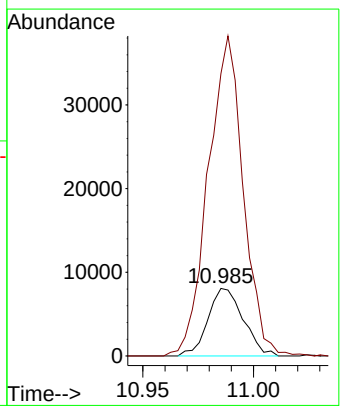


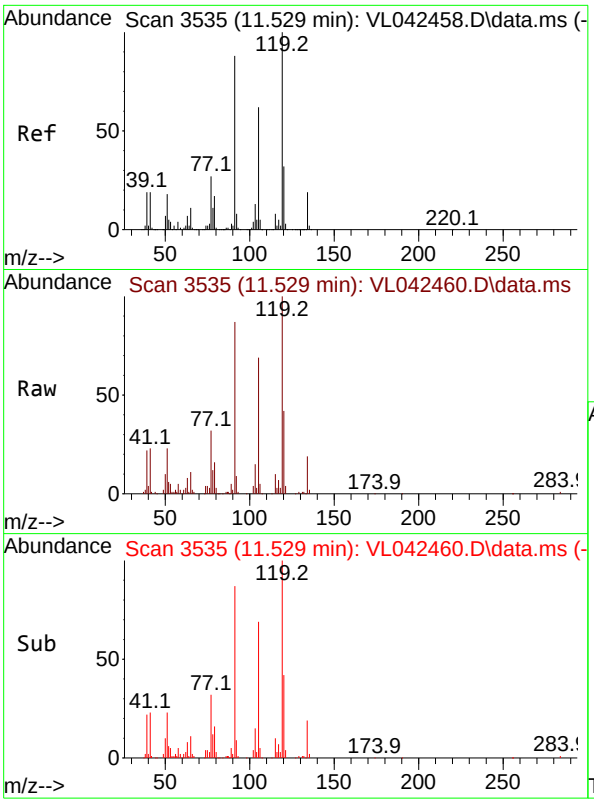


#64
n-propylbenzene
Concen: 1.064 ppbv
RT: 10.985 min Scan# 3367
Delta R.T. -0.003 min
Lab File: VL042460.D
Acq: 01 May 2025 10:08

Tgt Ion:120 Resp: 8958

Ion	Ratio	Lower	Upper
120	100		
91	471.3	408.6	612.8



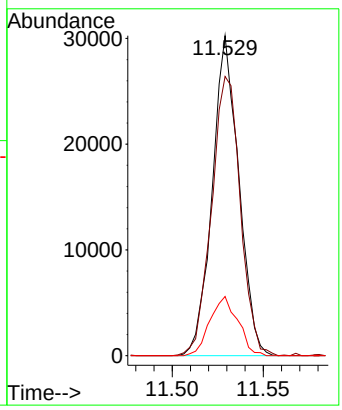


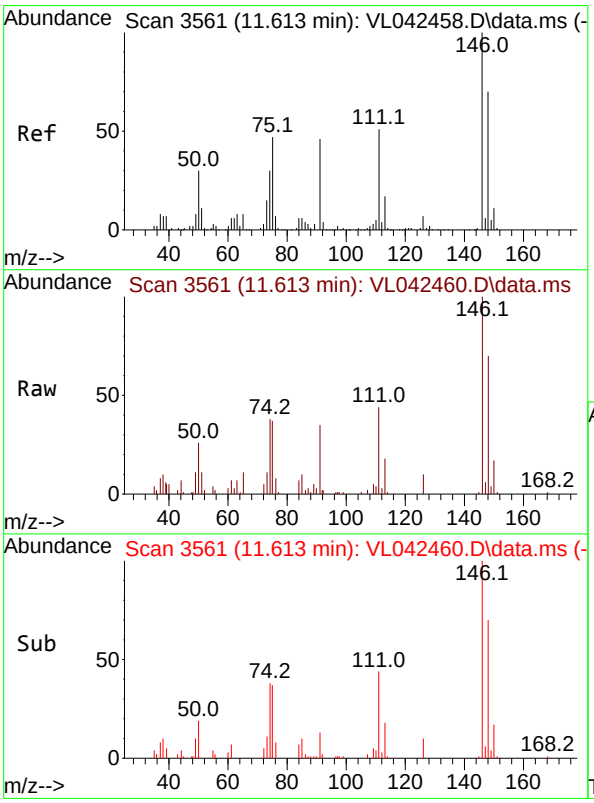
#65
tert-Butylbenzene
Concen: 0.992 ppbv
RT: 11.529 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042460.D
Acq: 01 May 2025 10:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion:119 Resp: 30604

Ion	Ratio	Lower	Upper
119	100		
91	94.7	71.6	107.4
134	19.5	15.0	22.4

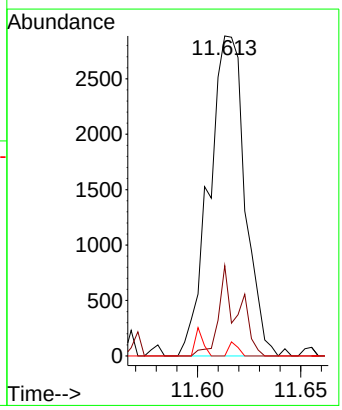


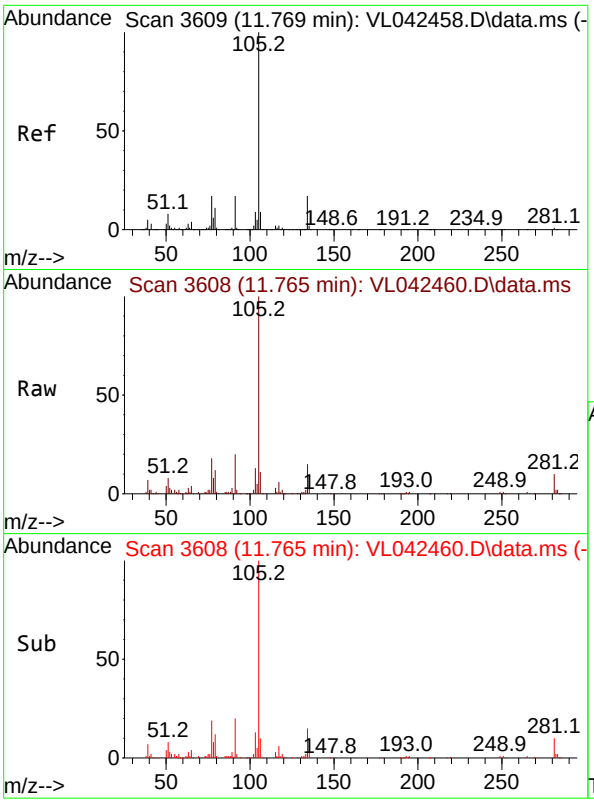


#66
Benzyl Chloride
Concen: 0.978 ppbv
RT: 11.613 min Scan# 3561
Delta R.T. -0.000 min
Lab File: VL042460.D
Acq: 01 May 2025 10:08

Tgt Ion: 91 Resp: 3486

Ion	Ratio	Lower	Upper
91	100		
126	15.3	13.3	19.9
128	3.1	4.2	6.4#



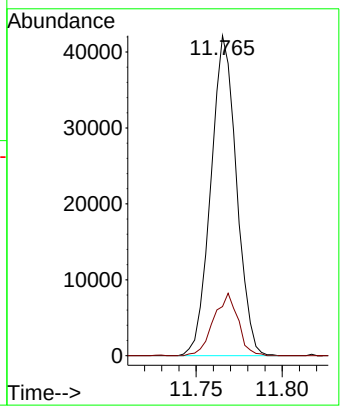


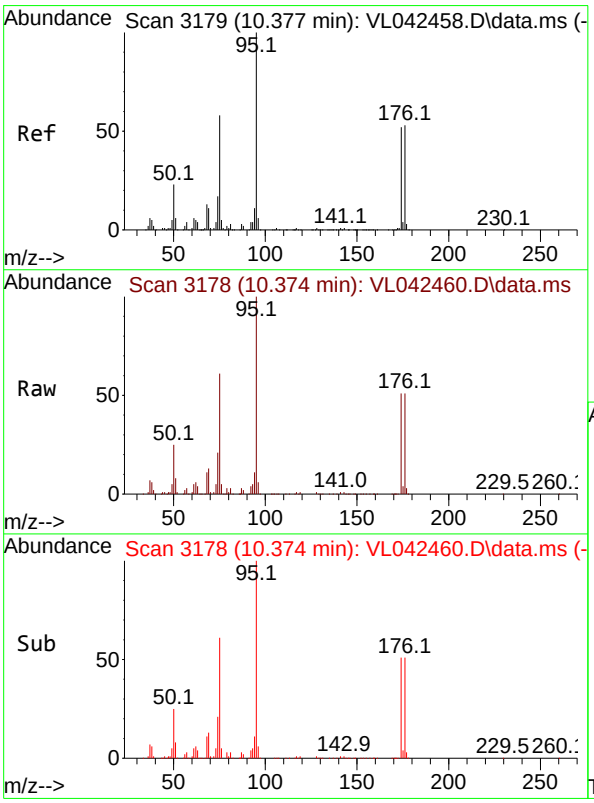
#67
sec-Butylbenzene
Concen: 0.998 ppbv
RT: 11.765 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042460.D
Acq: 01 May 2025 10:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion:105 Resp: 43740

Ion	Ratio	Lower	Upper
105	100		
134	18.6	14.1	21.1

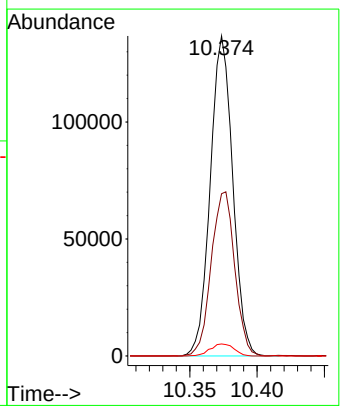


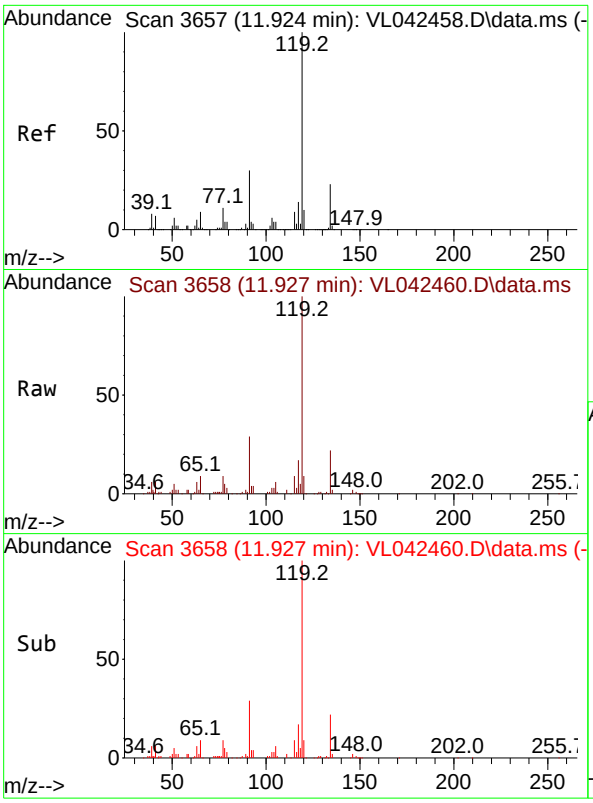


#68
1-Bromo-4-Fluorobenzene
Concen: 10.011 ppbv
RT: 10.374 min Scan# 3178
Delta R.T. -0.003 min
Lab File: VL042460.D
Acq: 01 May 2025 10:08

Tgt Ion: 95 Resp: 158600

Ion	Ratio	Lower	Upper
95	100		
174	53.7	42.7	64.1
175	4.0	3.6	5.4



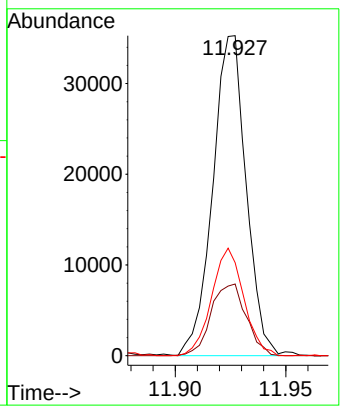


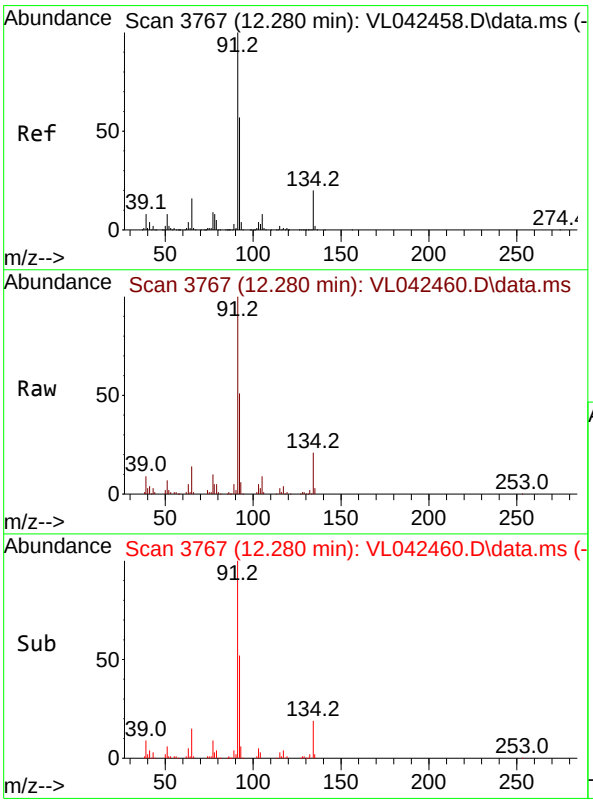
#69
p-Isopropyltoluene
Concen: 1.002 ppbv
RT: 11.927 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042460.D
Acq: 01 May 2025 10:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion:119 Resp: 37011

Ion	Ratio	Lower	Upper
119	100		
134	23.6	19.0	28.4
91	32.8	25.5	38.3

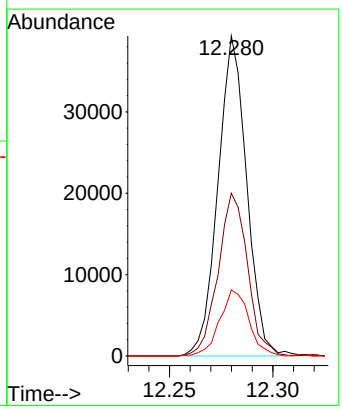


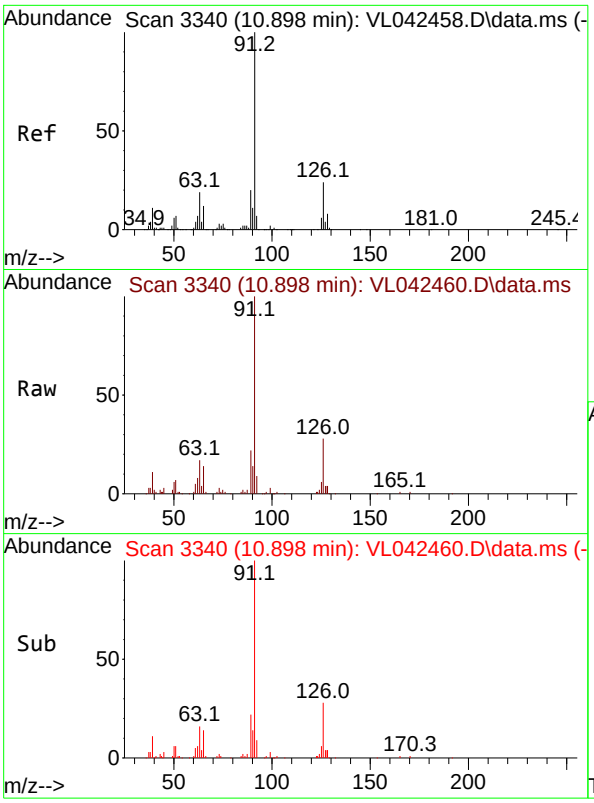


#70
n-Butylbenzene
Concen: 0.992 ppbv
RT: 12.280 min Scan# 3767
Delta R.T. -0.000 min
Lab File: VL042460.D
Acq: 01 May 2025 10:08

Tgt Ion: 91 Resp: 37892

Ion	Ratio	Lower	Upper
91	100		
92	52.5	44.0	66.0
134	21.2	16.8	25.2



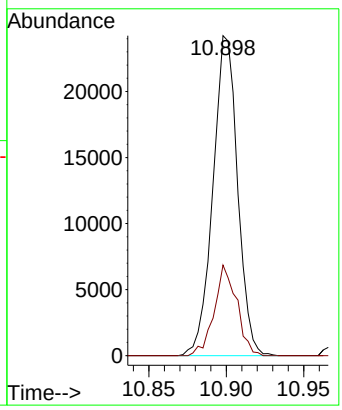


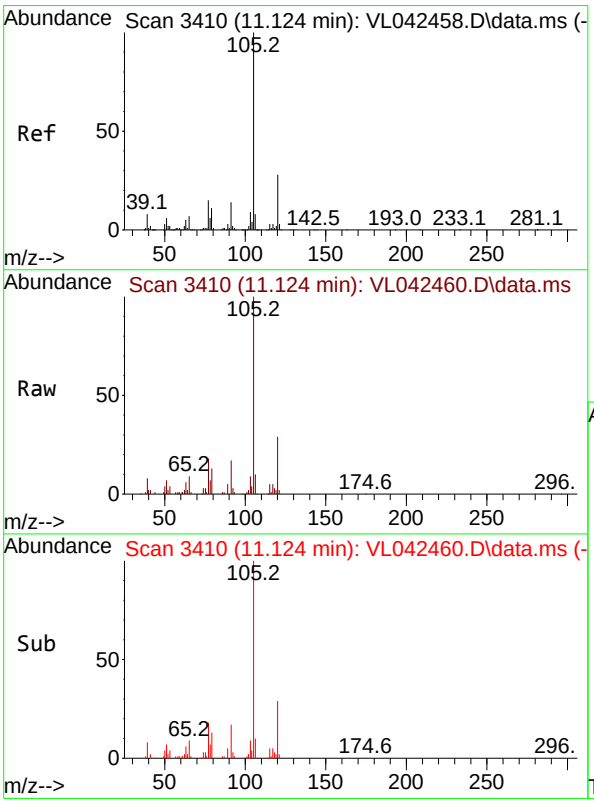
#71
2-Chlorotoluene
Concen: 0.989 ppbv
RT: 10.898 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042460.D
Acq: 01 May 2025 10:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 91 Resp: 26813

Ion	Ratio	Lower	Upper
91	100		
126	25.9	10.6	42.2

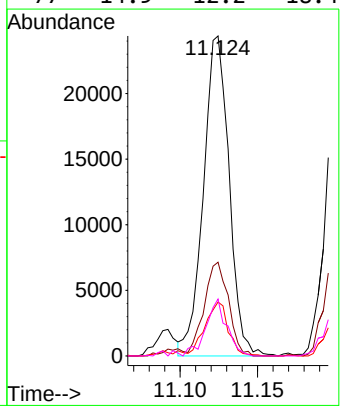


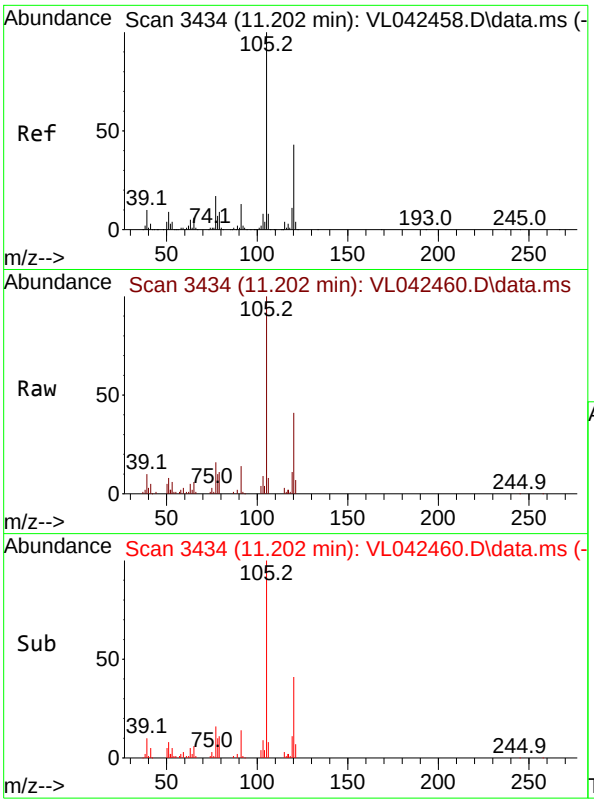


#72
4-Ethyltoluene
Concen: 0.996 ppbv
RT: 11.124 min Scan# 3410
Delta R.T. -0.000 min
Lab File: VL042460.D
Acq: 01 May 2025 10:08

Tgt Ion:105 Resp: 28149

Ion	Ratio	Lower	Upper
105	100		
120	29.5	22.0	33.0
91	16.6	11.2	16.8
77	14.9	12.2	18.4



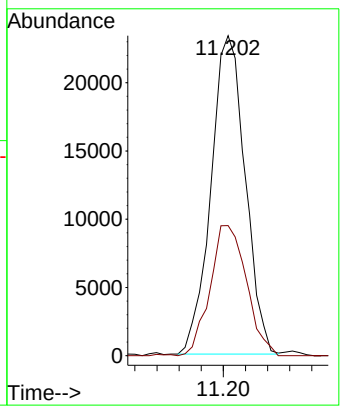


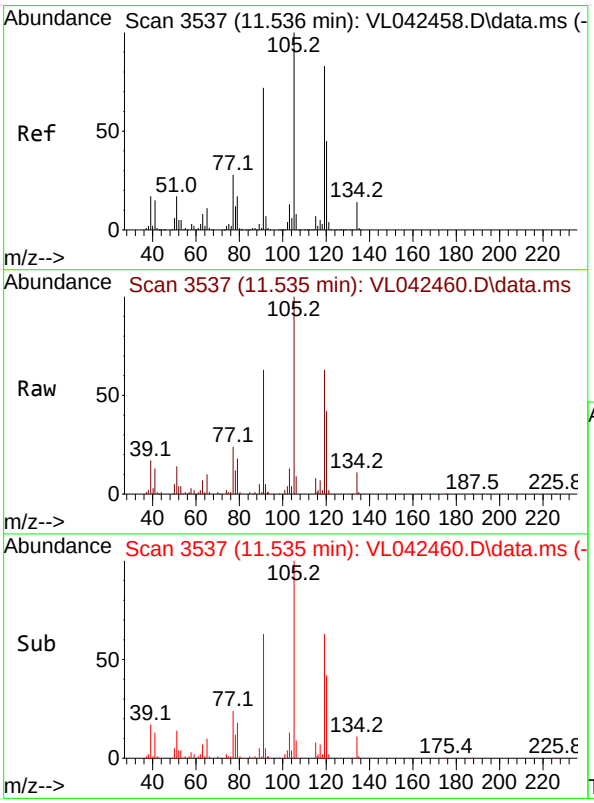
#73
1,3,5-Trimethylbenzene
Concen: 1.009 ppbv
RT: 11.202 min Scan# 34
Delta R.T. -0.000 min
Lab File: VL042460.D
Acq: 01 May 2025 10:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion:105 Resp: 25073

Ion	Ratio	Lower	Upper
105	100		
120	40.8	34.4	51.6

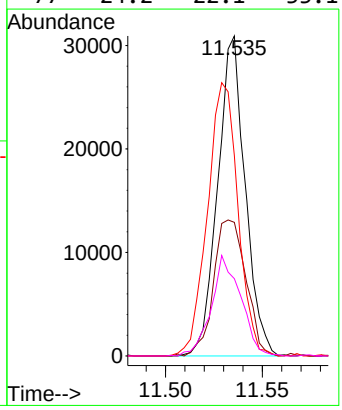


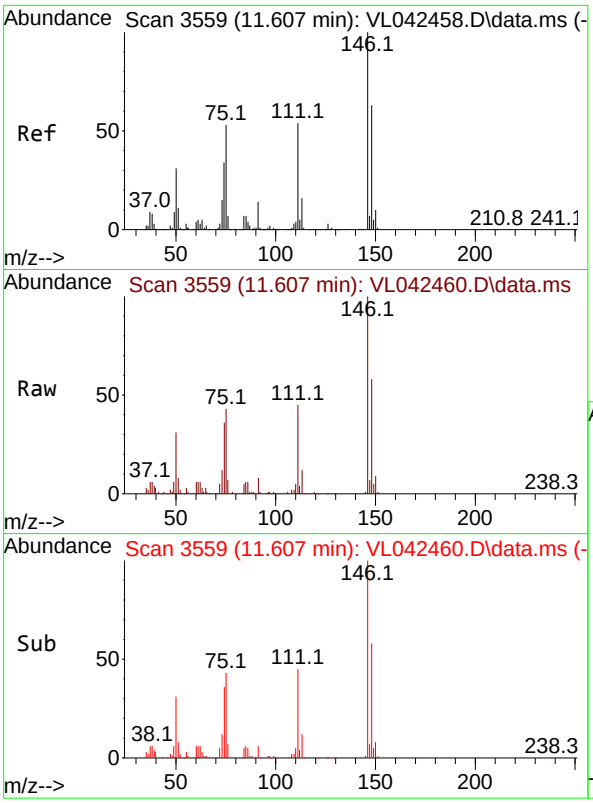


#74
1,2,4-Trimethylbenzene
Concen: 1.016 ppbv
RT: 11.535 min Scan# 3537
Delta R.T. -0.000 min
Lab File: VL042460.D
Acq: 01 May 2025 10:08

Tgt Ion:105 Resp: 30550

Ion	Ratio	Lower	Upper
105	100		
120	41.7	36.1	54.1
91	62.6	57.6	86.4
77	24.2	22.1	33.1



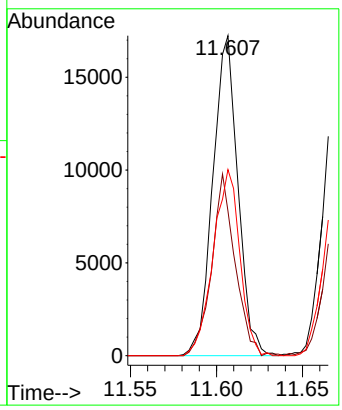


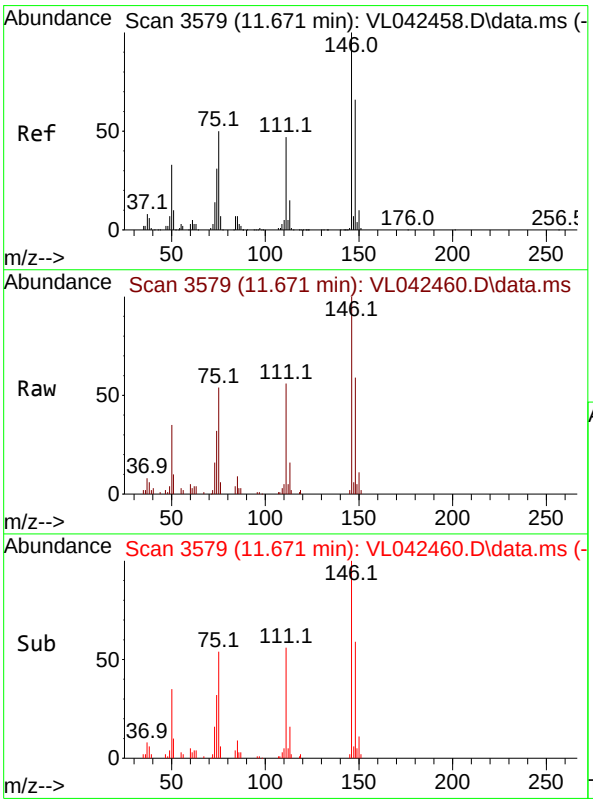
#75
1,3-Dichlorobenzene
Concen: 1.043 ppbv
RT: 11.607 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042460.D
Acq: 01 May 2025 10:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion:146 Resp: 17456

Ion	Ratio	Lower	Upper
146	100		
111	53.0	26.1	78.3
148	61.8	32.0	96.0

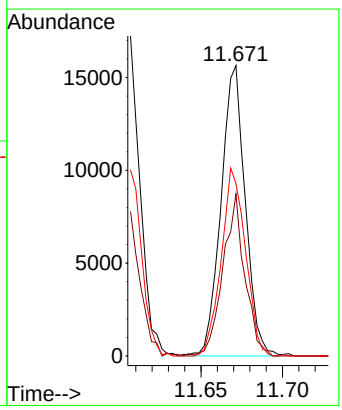


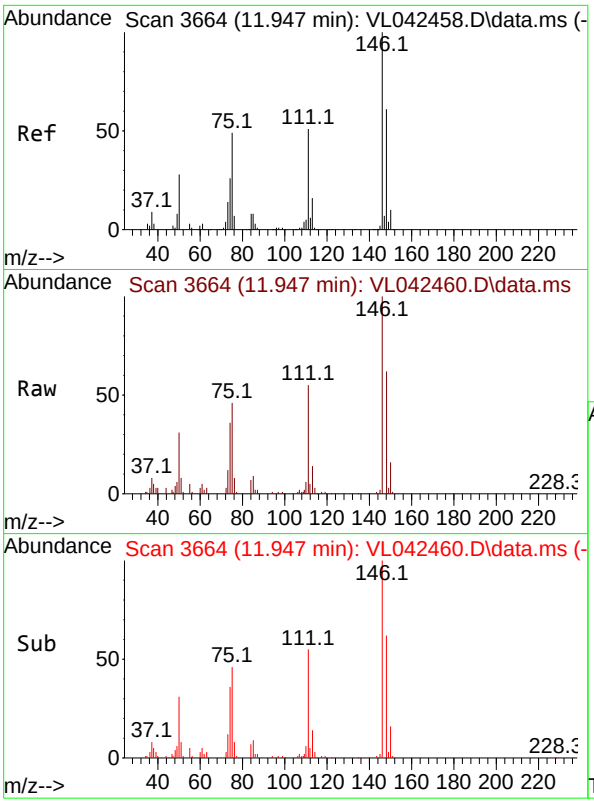


#76
1,4-Dichlorobenzene
Concen: 1.019 ppbv
RT: 11.671 min Scan# 3579
Delta R.T. -0.000 min
Lab File: VL042460.D
Acq: 01 May 2025 10:08

Tgt Ion:146 Resp: 16151

Ion	Ratio	Lower	Upper
146	100		
111	50.3	24.4	73.2
148	64.8	32.0	96.2



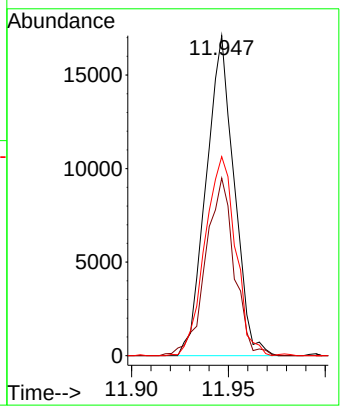


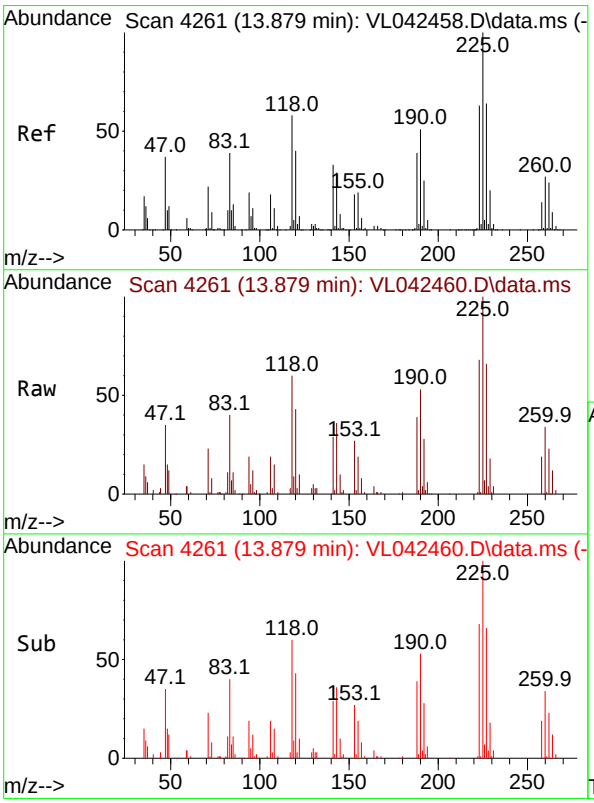
#77
1,2-Dichlorobenzene
Concen: 1.050 ppbv
RT: 11.947 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042460.D
Acq: 01 May 2025 10:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion:146 Resp: 17207

Ion	Ratio	Lower	Upper
146	100		
111	56.8	26.5	79.5
148	68.5	31.5	94.5

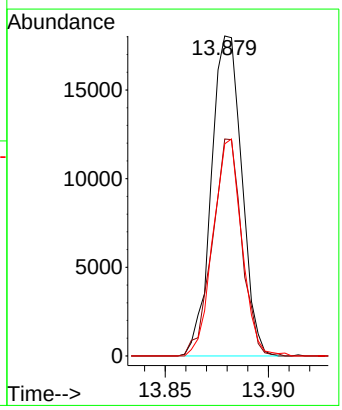


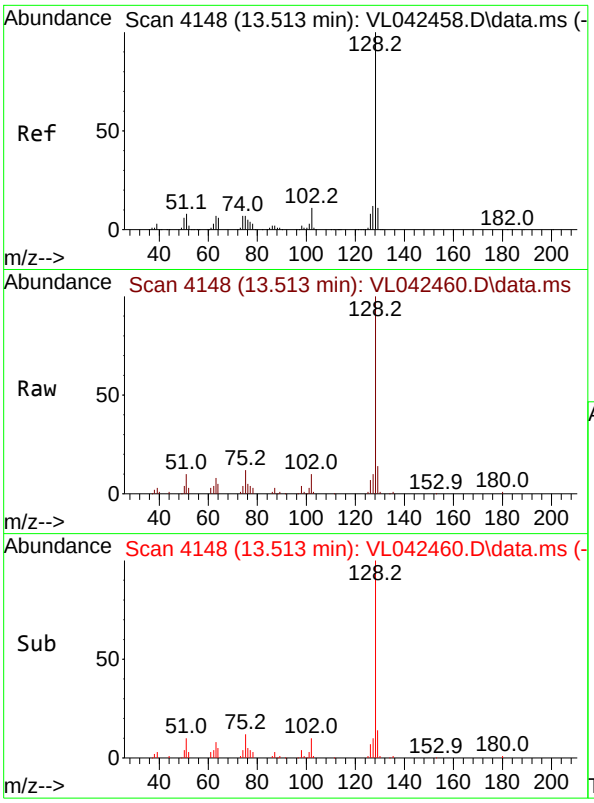


#78
Hexachloro-1,3-Butadiene
Concen: 1.129 ppbv
RT: 13.879 min Scan# 4261
Delta R.T. -0.000 min
Lab File: VL042460.D
Acq: 01 May 2025 10:08

Tgt Ion:225 Resp: 18472

Ion	Ratio	Lower	Upper
225	100		
223	65.3	50.2	75.4
227	63.8	51.2	76.8



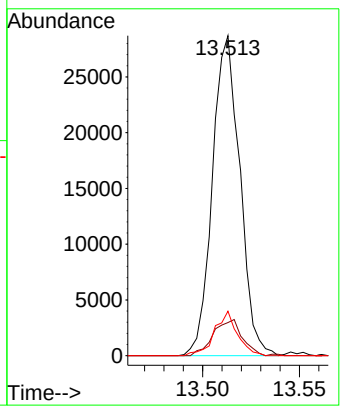


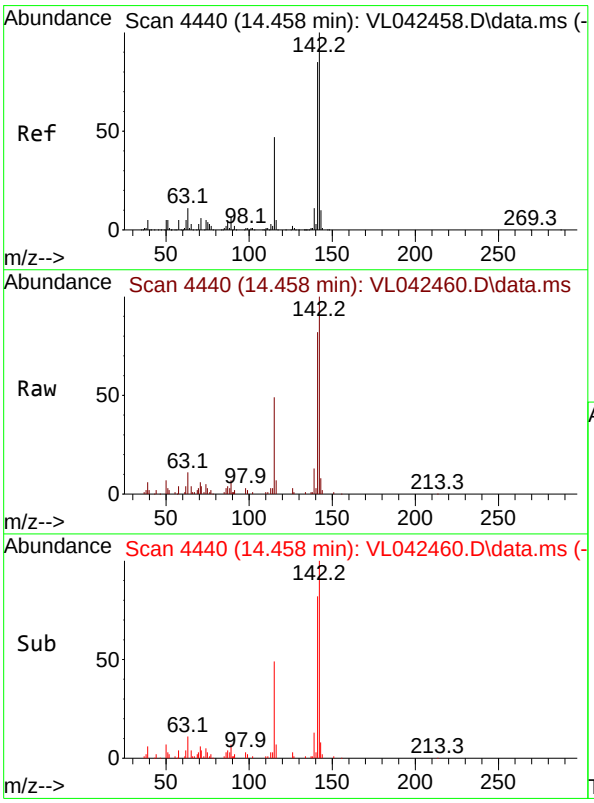
#79
Naphthalene
Concen: 1.123 ppbv
RT: 13.513 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042460.D
Acq: 01 May 2025 10:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion:128 Resp: 28316

Ion	Ratio	Lower	Upper
128	100		
127	10.4	9.7	14.5
129	13.9	8.6	13.0#

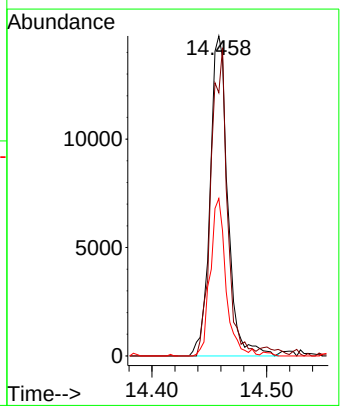


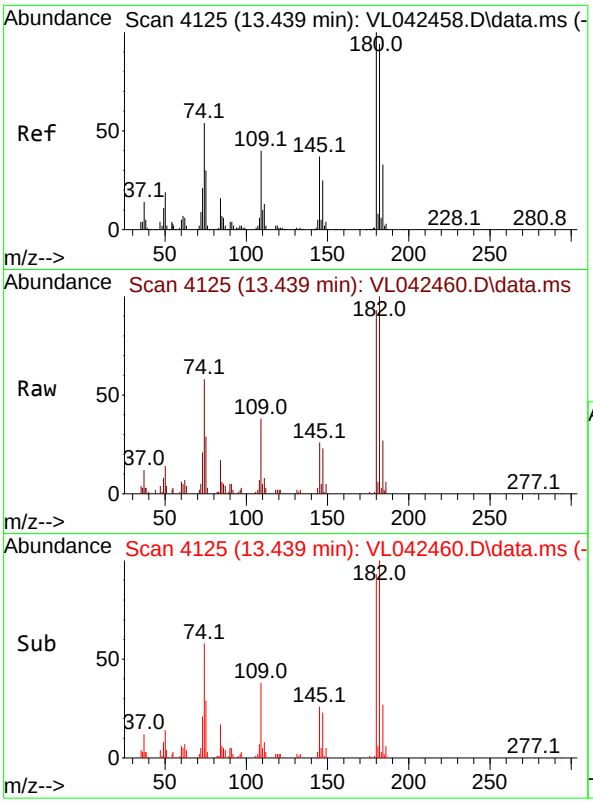


#80
Naphthalene,2-methyl-
Concen: 0.840 ppbv
RT: 14.458 min Scan# 4440
Delta R.T. -0.000 min
Lab File: VL042460.D
Acq: 01 May 2025 10:08

Tgt Ion:142 Resp: 15804

Ion	Ratio	Lower	Upper
142	100		
141	92.3	67.4	101.0
115	44.3	36.9	55.3



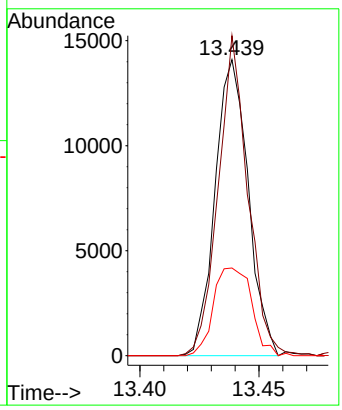


#81
1,2,4-Trichlorobenzene
Concen: 1.011 ppbv
RT: 13.439 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042460.D
Acq: 01 May 2025 10:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion:180 Resp: 13644

Ion	Ratio	Lower	Upper
180	100		
182	96.5	74.6	111.8
184	34.1	24.9	37.3



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050125\
Data File : VL042461.D
Acq On : 01 May 2025 10:40
Operator : SY/MD
Sample : VSTDICC0.5
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Quant Time: May 02 01:42:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri May 02 01:37:48 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.790	49	68913	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.962	114	193701	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.885	117	166625	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.377	95	150277	9.728	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 97.300%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.499	85	6501	0.570	ppbv		94
3) Chlorodifluoromethane	1.476	51	6500	0.539	ppbv		99
4) Chloromethane	1.535	50	2542	0.533	ppbv		95
5) Vinyl Chloride	1.580	62	2441	0.509	ppbv		92
6) Bromomethane	1.667	94	1202	0.530	ppbv		97
7) Chloroethane	1.703	64	862	0.486	ppbv	#	68
8) Dichlorotetrafluoroethane	1.554	85	4979	0.530	ppbv		93
9) Propene	1.486	41	2017	0.511	ppbv		96
10) Heptane	4.994	43	1235	0.121	ppbv	#	1
11) Trichlorofluoromethane	1.878	101	5720	0.562	ppbv		95
12) 1,1,2-Trichlorotrifluo...	2.137	101	4540	0.540	ppbv		94
13) Ethanol	1.722	45	744	0.930	ppbv		99
14) Bromoethene	1.784	108	1680	0.542	ppbv	#	87
15) Acetone	1.839	43	7680	0.610	ppbv	#	82
16) 1,3-Butadiene	1.609	39	3044	0.549	ppbv		86
17) tert-Butyl alcohol	2.046	59	6256	0.564	ppbv	#	91
18) 1,1-Dichloroethene	2.036	96	2240	0.571	ppbv		94
19) Isopropyl Alcohol	1.887	45	4208	0.604	ppbv	#	96
20) Methylene Chloride	2.062	84	2594	0.686	ppbv	#	80
21) Allyl Chloride	2.098	41	4420	0.546	ppbv	#	93
22) trans-1,2-Dichloroethene	2.340	96	2554	0.557	ppbv		95
23) Vinyl Acetate	2.460	43	6541	0.558	ppbv	#	95
24) 1,1-Dichloroethane	2.412	63	4933	0.528	ppbv		98
25) Ethyl Acetate	2.842	43	10344	0.514	ppbv	#	96
26) Hexane	2.829	57	4403	0.502	ppbv		95
27) Carbon Disulfide	2.153	76	5201	0.508	ppbv	#	1
28) Methyl tert-Butyl Ether	2.441	73	2762	0.524	ppbv	#	82
29) Chloroform	2.852	83	8791	0.535	ppbv		92
30) Cyclohexane	3.868	84	1455	0.198	ppbv	#	1
31) cis-1,2-Dichloroethene	2.340	61	4038	0.394	ppbv		94
32) 1,1,1-Trichloroethane	3.366	97	5990	0.336	ppbv	#	68
34) 2-Butanone	2.564	43	7766	0.554	ppbv		93
35) Carbon Tetrachloride	3.768	117	8286	0.492	ppbv		86
36) Benzene	3.655	78	8951	0.490	ppbv	#	92
37) 1,2-Dichloroethane	3.224	62	7149	0.507	ppbv	#	95
38) Trichloroethene	4.548	130	2173	0.312	ppbv	#	76
39) 1,2-Dichloropropane	4.321	63	2649	0.387	ppbv		90
40) 1,4-Dioxane	4.600	88	438	0.138	ppbv	#	100
41) Tetrahydrofuran	3.062	42	1107	0.167	ppbv	#	34
42) Bromodichloromethane	4.496	83	8212	0.477	ppbv		93
43) Methyl Methacrylate	4.891	69	1450	0.213	ppbv	#	1
44) 2,2,4-Trimethylpentane	4.638	57	8185	0.277	ppbv	#	42
45) t-1,3-Dichloropropene	6.415	75	2226	0.248	ppbv		92

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050125\
Data File : VL042461.D
Acq On : 01 May 2025 10:40
Operator : SY/MD
Sample : VSTDICC0.5
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Quant Time: May 02 01:42:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri May 02 01:37:48 2025
Response via : Initial Calibration

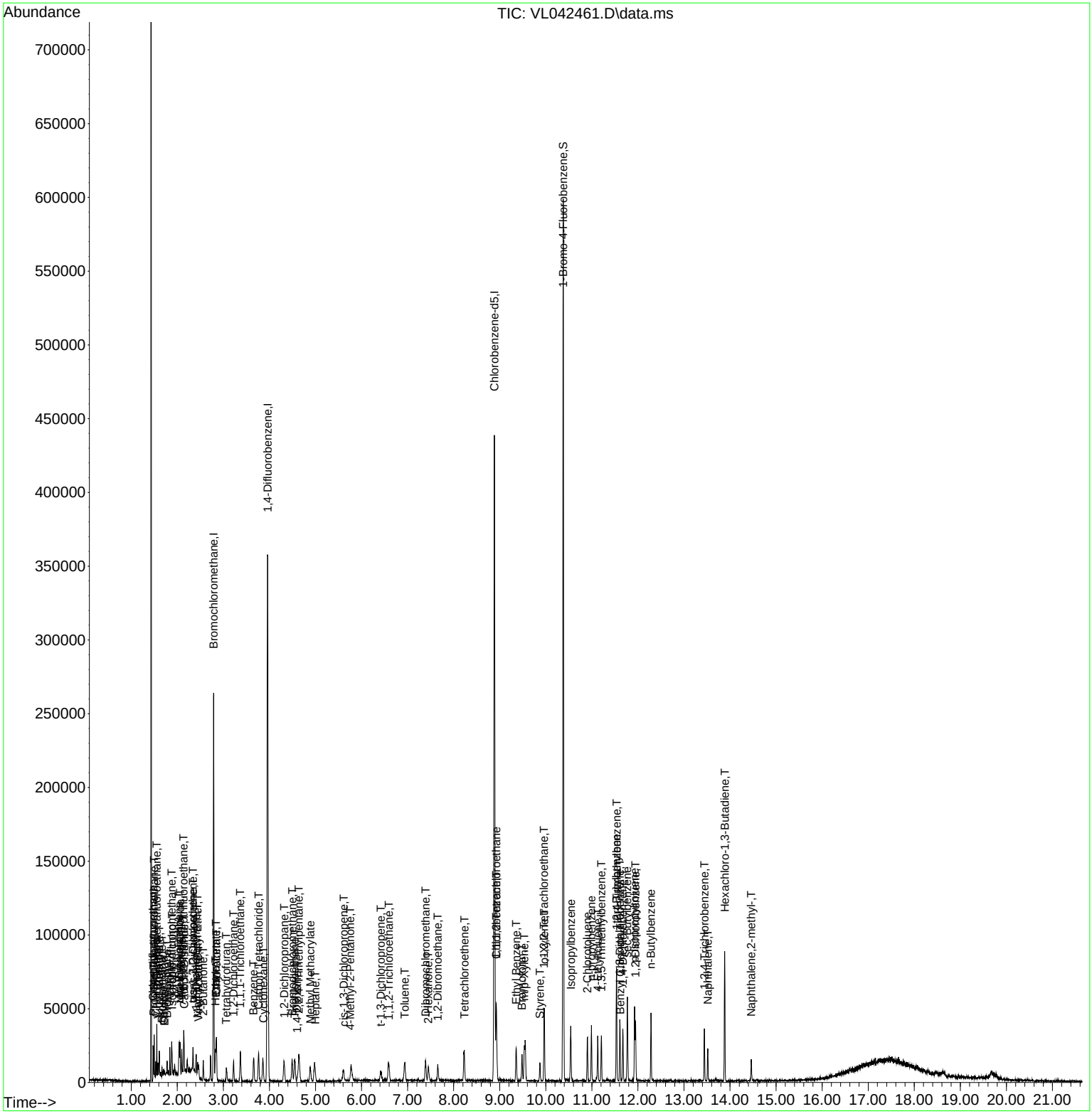
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) cis-1,3-Dichloropropene	5.613	75	2250	0.212	ppbv		97
47) 1,1,2-Trichloroethane	6.593	97	478	0.064	ppbv	#	71
48) Dibromochloromethane	7.390	129	1718	0.136	ppbv	#	1
49) Bromoform	9.484	173	5228	0.492	ppbv		97
50) 4-Methyl-2-Pentanone	5.755	43	1231	0.069	ppbv	#	38
51) 2-Hexanone	7.448	43	2872	0.202	ppbv	#	22
52) Tetrachloroethene	8.238	164	694	0.100	ppbv	#	77
53) Toluene	6.940	91	1946	0.101	ppbv	#	1
54) 1,2-Dibromoethane	7.652	107	5705	0.494	ppbv		83
56) 1,1,1,2-Tetrachloroethane	8.924	131	5152	0.524	ppbv	#	92
57) Chlorobenzene	8.924	112	9173	0.548	ppbv	#	86
58) Ethyl Benzene	9.357	91	12427	0.446	ppbv		90
59) m/p-Xylene	9.535	91	12016	0.515	ppbv	#	33
60) o-Xylene	9.966	91	9891	0.424	ppbv		100
61) Styrene	9.872	104	3286	0.377	ppbv		87
62) Isopropylbenzene	10.545	105	14837	0.440	ppbv		95
63) 1,1,2,2-Tetrachloroethane	9.963	83	8135	0.537	ppbv		96
64) n-propylbenzene	10.992	120	3259	0.397	ppbv		83
65) tert-Butylbenzene	11.536	119	12655	0.421	ppbv		99
66) Benzyl Chloride	11.620	91	651	0.187	ppbv	#	58
67) sec-Butylbenzene	11.769	105	17905	0.419	ppbv		97
69) p-Isopropyltoluene	11.927	119	15036	0.417	ppbv		94
70) n-Butylbenzene	12.283	91	15016	0.403	ppbv		93
71) 2-Chlorotoluene	10.905	91	11702	0.443	ppbv		99
72) 4-Ethyltoluene	11.128	105	10671	0.387	ppbv	#	91
73) 1,3,5-Trimethylbenzene	11.206	105	9808	0.405	ppbv		89
74) 1,2,4-Trimethylbenzene	11.539	105	13060	0.445	ppbv	#	83
75) 1,3-Dichlorobenzene	11.607	146	8127	0.498	ppbv		96
76) 1,4-Dichlorobenzene	11.675	146	7238	0.469	ppbv		96
77) 1,2-Dichlorobenzene	11.950	146	8141	0.509	ppbv		94
78) Hexachloro-1,3-Butadiene	13.886	225	8565	0.537	ppbv		99
79) Naphthalene	13.517	128	9436	0.384	ppbv	#	89
80) Naphthalene,2-methyl-	14.458	142	4153	0.226	ppbv		98
81) 1,2,4-Trichlorobenzene	13.445	180	4992	0.379	ppbv		98

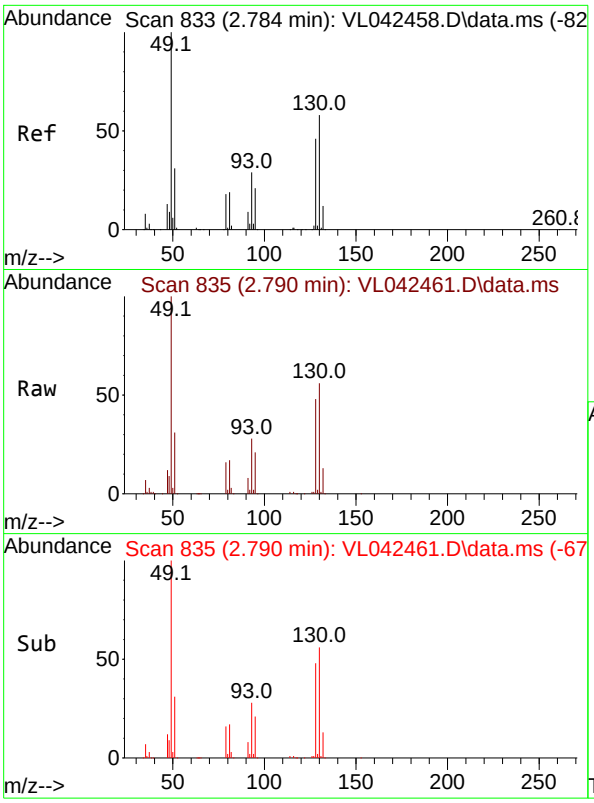
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050125\
Data File : VL042461.D
Acq On : 01 May 2025 10:40
Operator : SY/MD
Sample : VSTDICC0.5
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Quant Time: May 02 01:42:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri May 02 01:37:48 2025
Response via : Initial Calibration



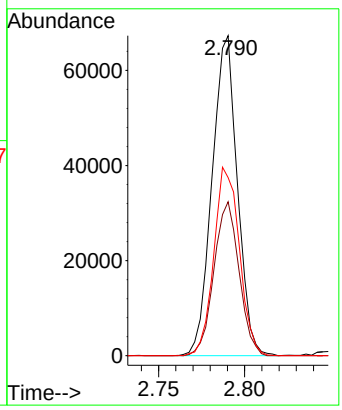


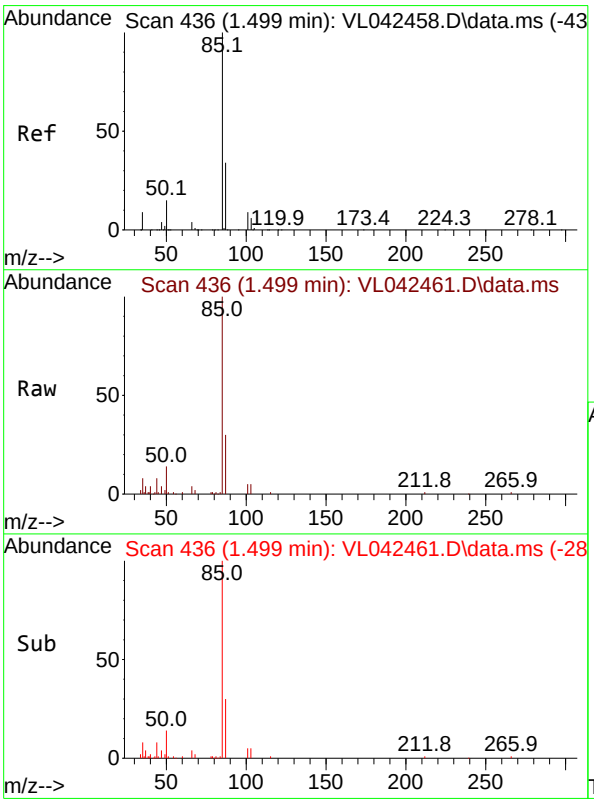
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 8
Delta R.T. 0.006 min
Lab File: VL042461.D
Acq: 01 May 2025 10:40

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 49 Resp: 68913

Ion	Ratio	Lower	Upper
49	100		
128	47.7	23.3	69.9
130	59.4	29.5	88.6

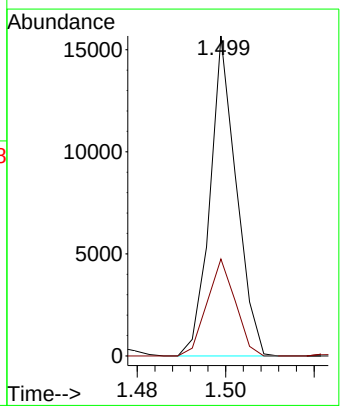


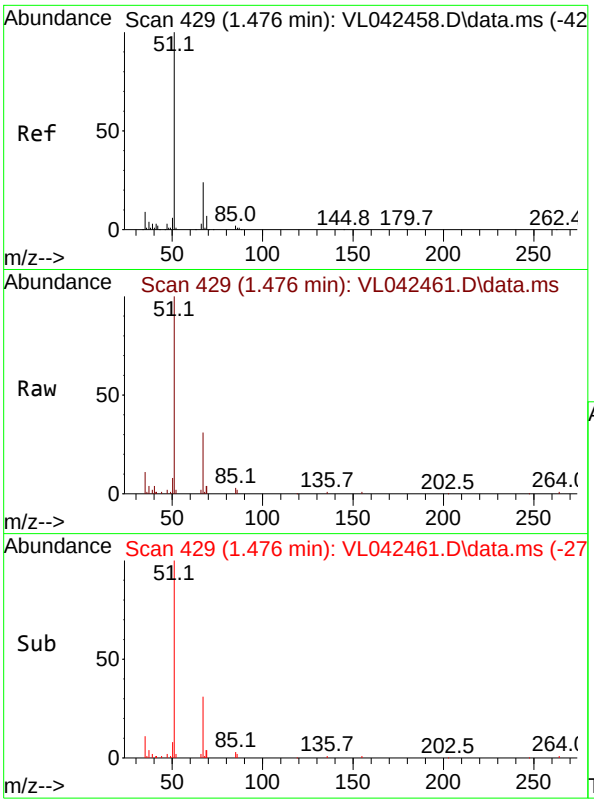


#2
Dichlorodifluoromethane
Concen: 0.570 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.000 min
Lab File: VL042461.D
Acq: 01 May 2025 10:40

Tgt Ion: 85 Resp: 6501

Ion	Ratio	Lower	Upper
85	100		
87	30.3	26.9	40.3



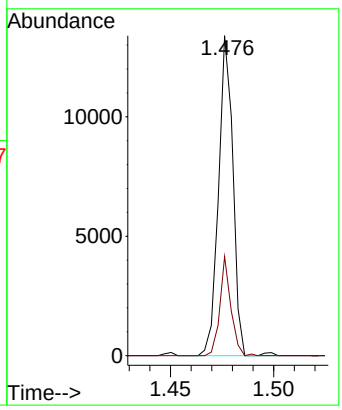


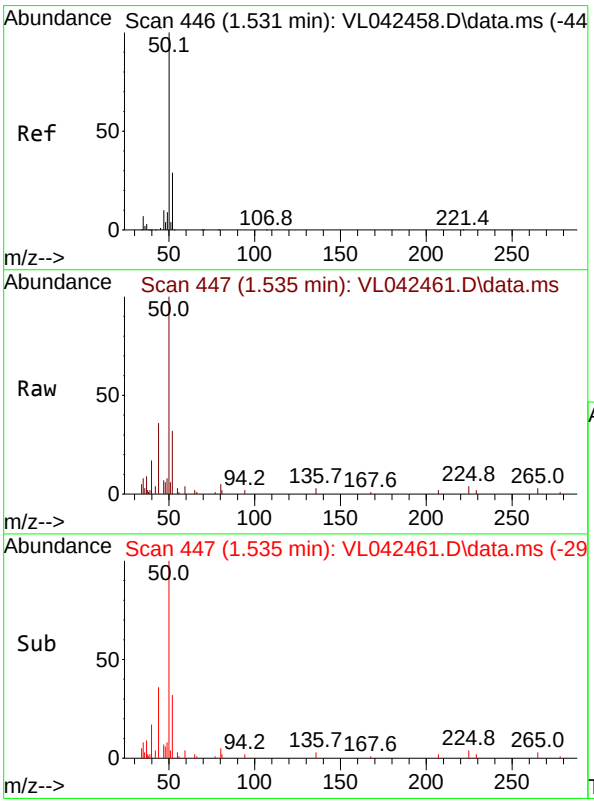
#3
Chlorodifluoromethane
Concen: 0.539 ppbv
RT: 1.476 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042461.D
Acq: 01 May 2025 10:40

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 51 Resp: 6500

Ion	Ratio	Lower	Upper
51	100		
67	23.7	18.4	27.6

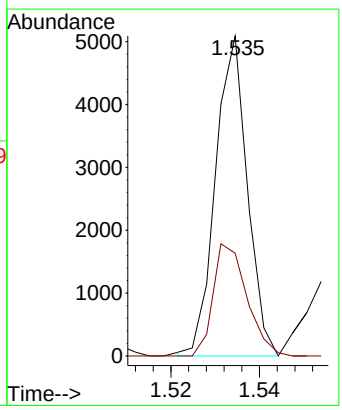


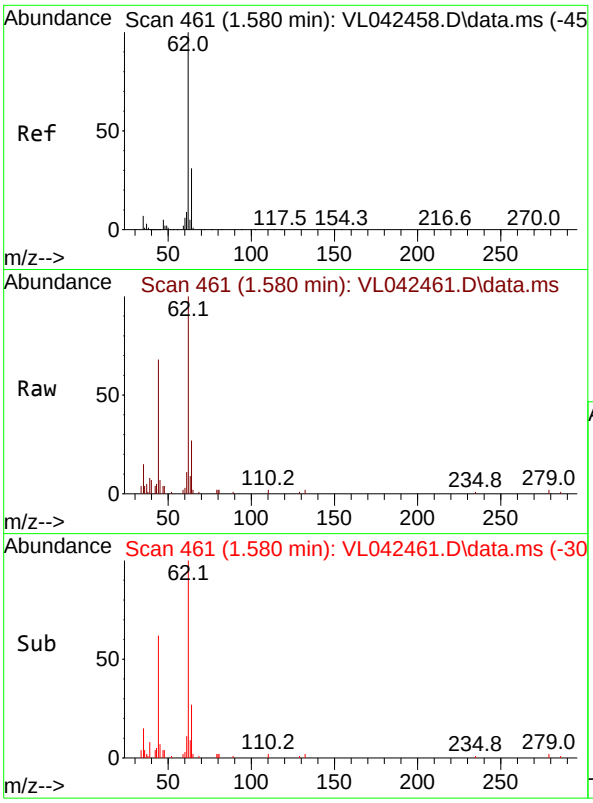


#4
Chloromethane
Concen: 0.533 ppbv
RT: 1.535 min Scan# 447
Delta R.T. 0.003 min
Lab File: VL042461.D
Acq: 01 May 2025 10:40

Tgt Ion: 50 Resp: 2542

Ion	Ratio	Lower	Upper
50	100		
52	32.1	23.5	35.3



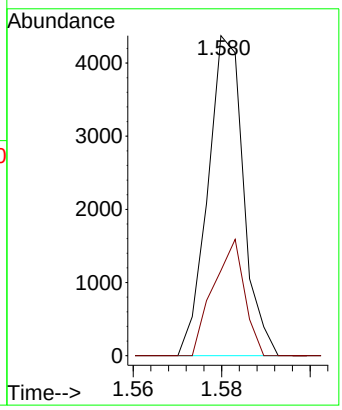


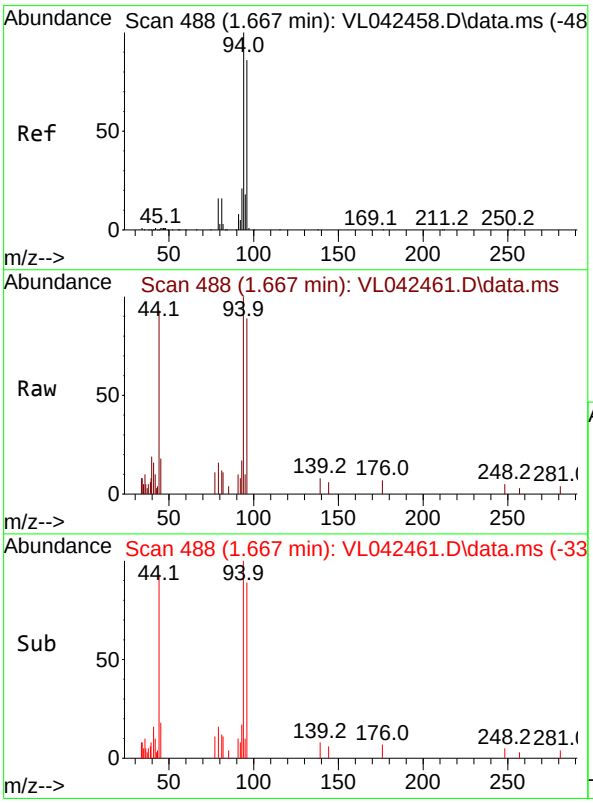
#5
Vinyl Chloride
Concen: 0.509 ppbv
RT: 1.580 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042461.D
Acq: 01 May 2025 10:40

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 62 Resp: 2441

Ion	Ratio	Lower	Upper
62	100		
64	26.6	24.9	37.3

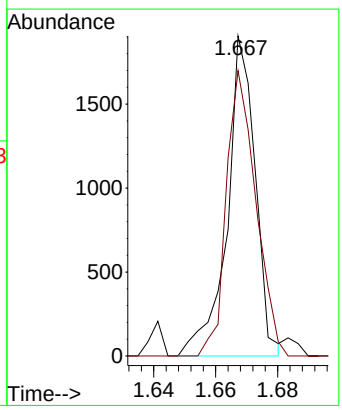


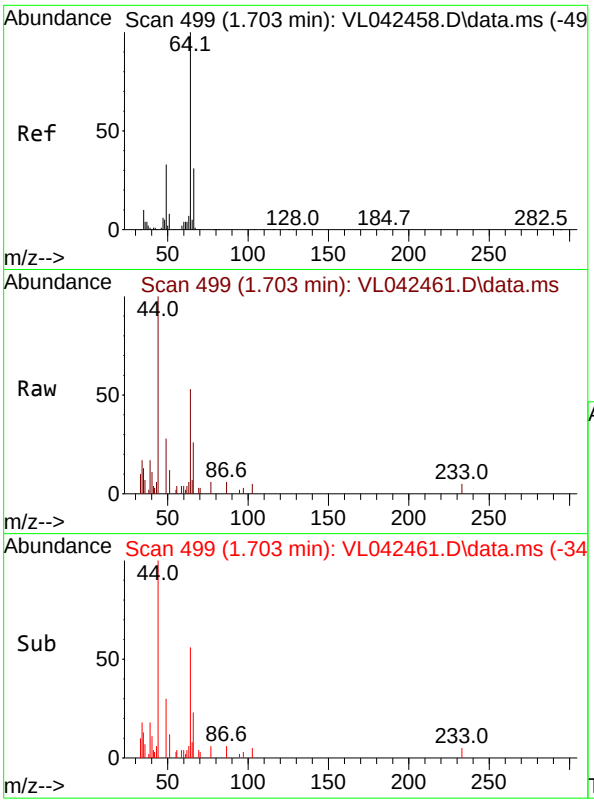


#6
Bromomethane
Concen: 0.530 ppbv
RT: 1.667 min Scan# 488
Delta R.T. 0.000 min
Lab File: VL042461.D
Acq: 01 May 2025 10:40

Tgt Ion: 94 Resp: 1202

Ion	Ratio	Lower	Upper
94	100		
96	89.1	68.8	103.2



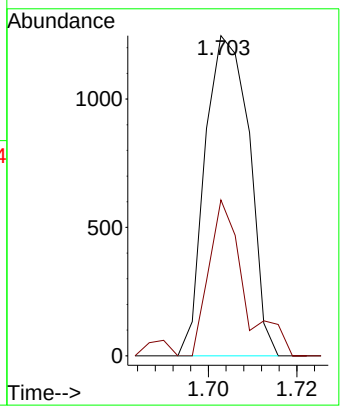


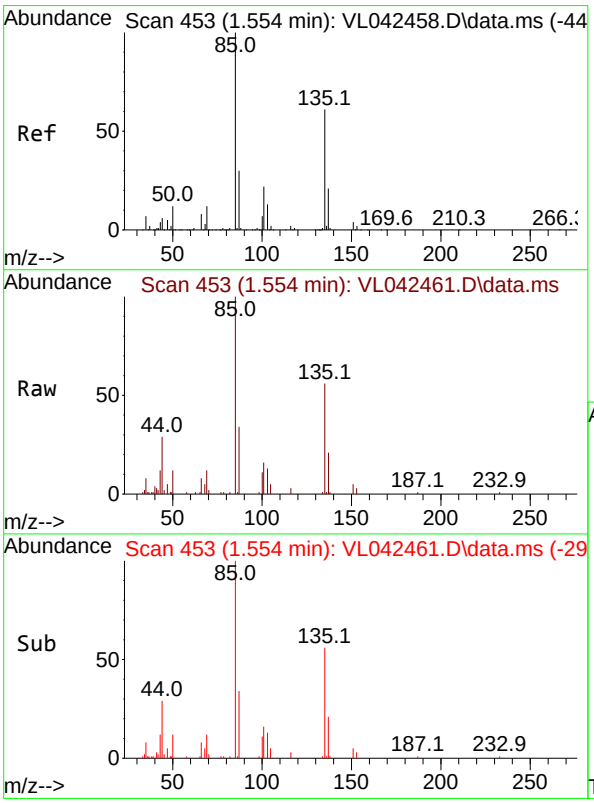
#7
Chloroethane
Concen: 0.486 ppbv
RT: 1.703 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042461.D
Acq: 01 May 2025 10:40

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 64 Resp: 862

Ion	Ratio	Lower	Upper
64	100		
66	48.7	25.0	37.4#

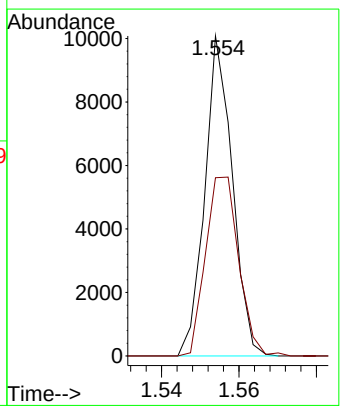


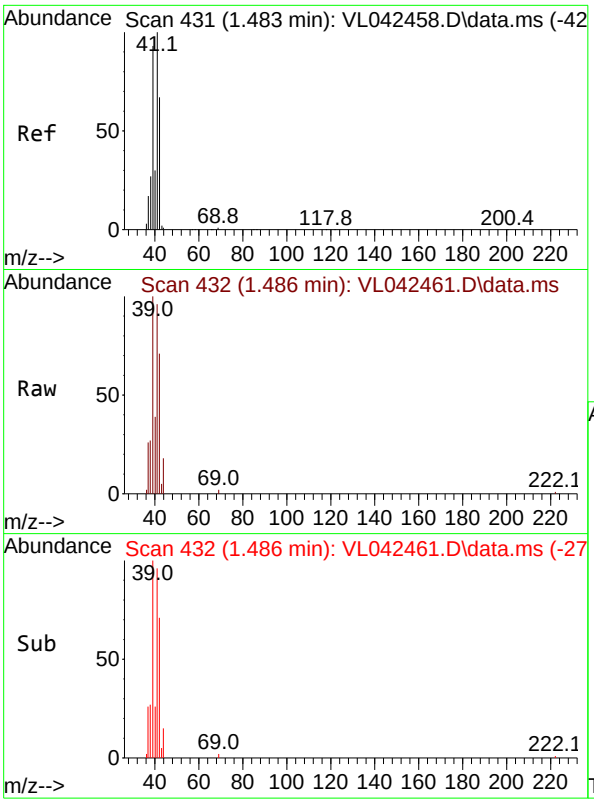


#8
Dichlorotetrafluoroethane
Concen: 0.530 ppbv
RT: 1.554 min Scan# 453
Delta R.T. 0.000 min
Lab File: VL042461.D
Acq: 01 May 2025 10:40

Tgt Ion: 85 Resp: 4979

Ion	Ratio	Lower	Upper
85	100		
135	67.4	49.8	74.8



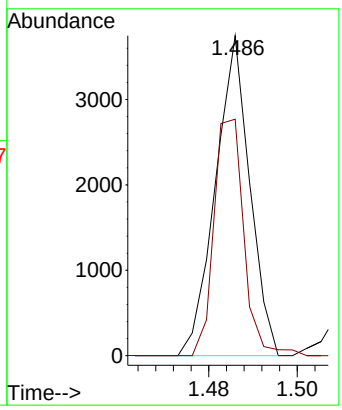


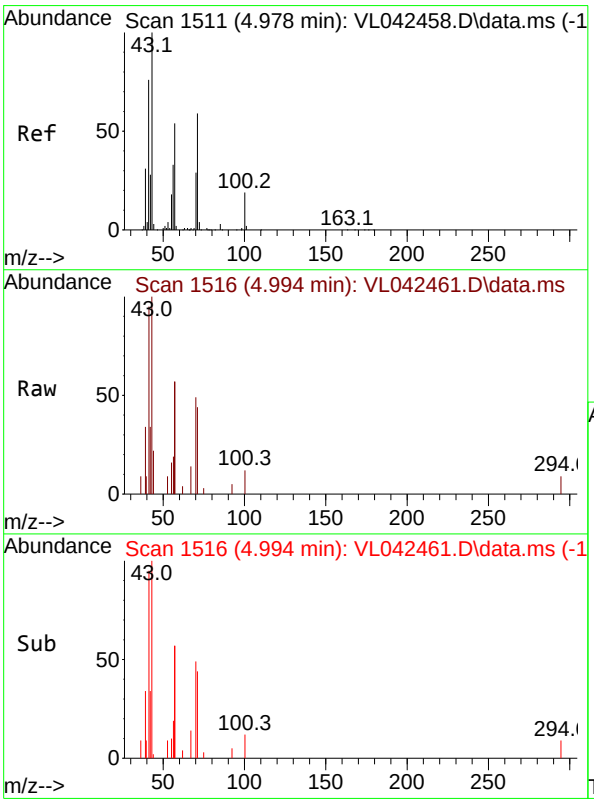
#9
Propene
Concen: 0.511 ppbv
RT: 1.486 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL042461.D
Acq: 01 May 2025 10:40

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 41 Resp: 2017

Ion	Ratio	Lower	Upper
41	100		
42	64.7	54.3	81.5

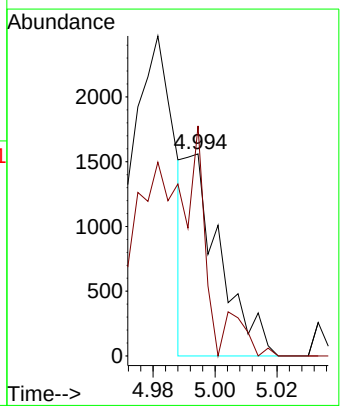


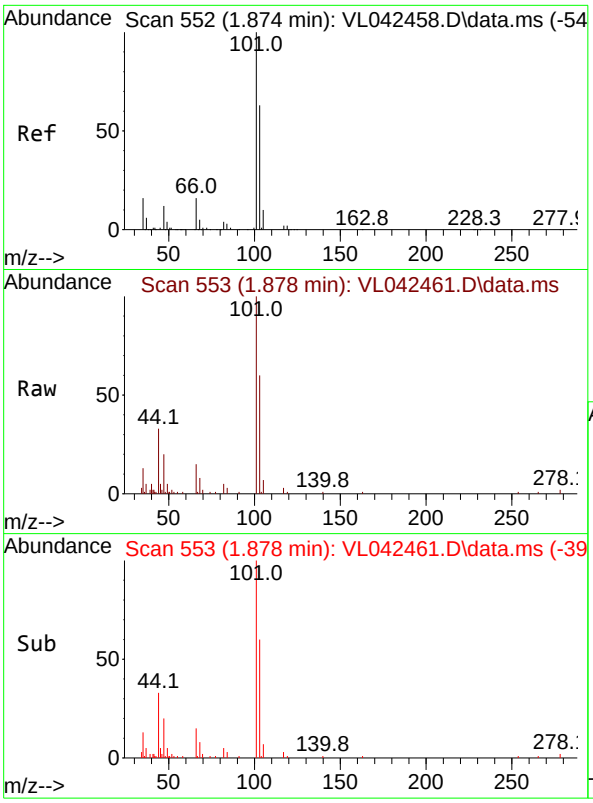


#10
Heptane
Concen: 0.121 ppbv
RT: 4.994 min Scan# 1516
Delta R.T. 0.016 min
Lab File: VL042461.D
Acq: 01 May 2025 10:40

Tgt Ion: 43 Resp: 1235

Ion	Ratio	Lower	Upper
43	100		
57	231.7	41.8	62.8#



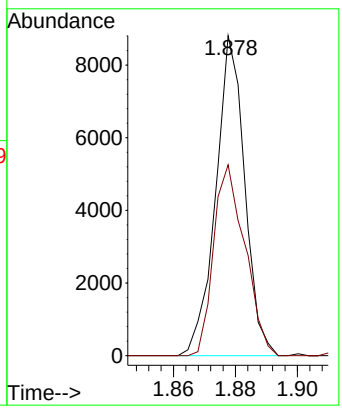


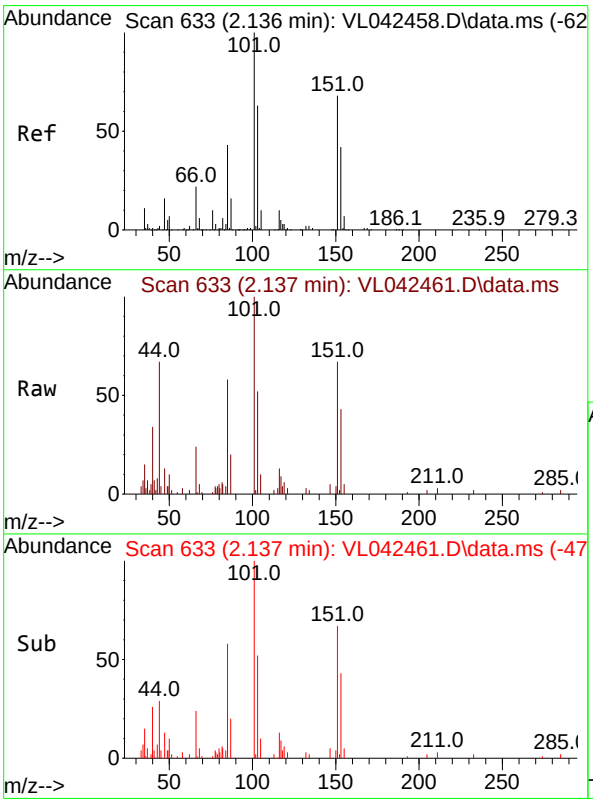
#11
Trichlorofluoromethane
Concen: 0.562 ppbv
RT: 1.878 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042461.D
Acq: 01 May 2025 10:40

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion:101 Resp: 5720

Ion	Ratio	Lower	Upper
101	100		
103	59.7	50.6	76.0

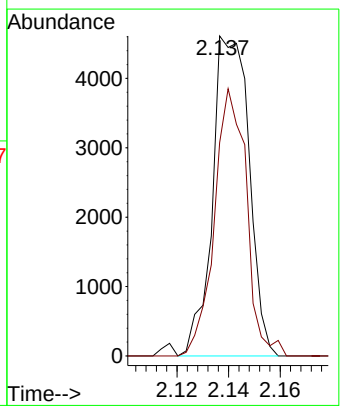


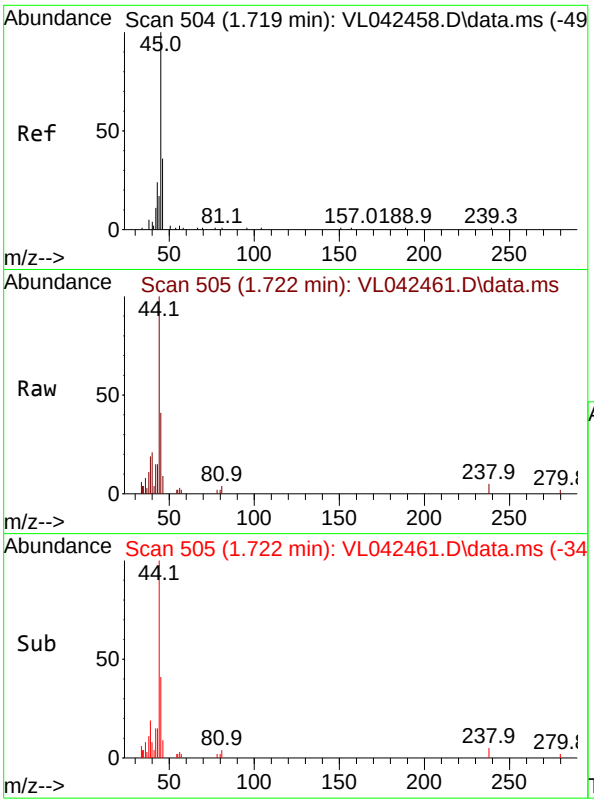


#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.540 ppbv
RT: 2.137 min Scan# 633
Delta R.T. 0.000 min
Lab File: VL042461.D
Acq: 01 May 2025 10:40

Tgt Ion:101 Resp: 4540

Ion	Ratio	Lower	Upper
101	100		
151	73.1	54.6	82.0



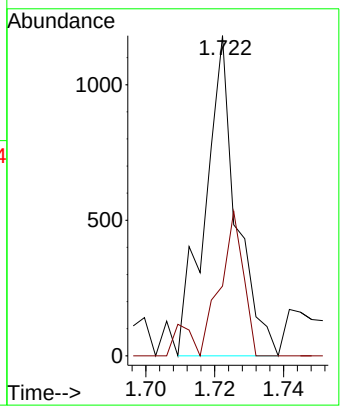


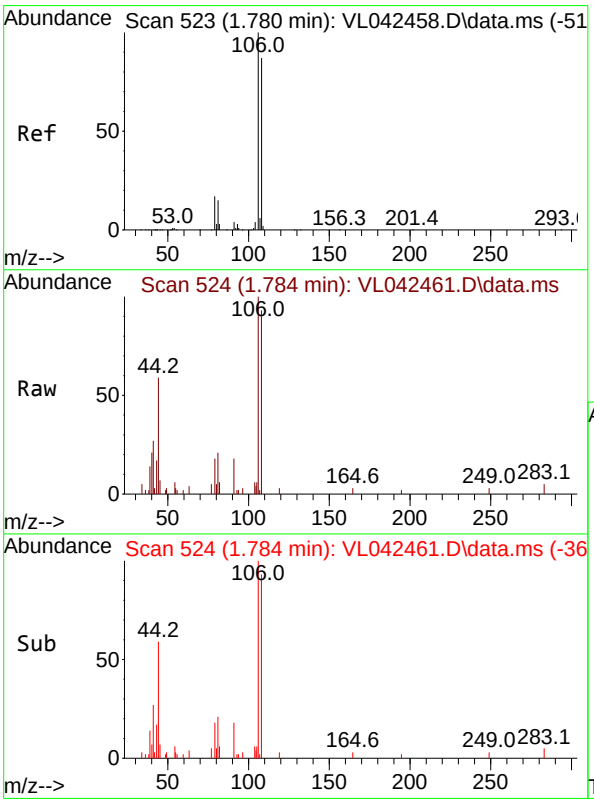
#13
Ethanol
Concen: 0.930 ppbv
RT: 1.722 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042461.D
Acq: 01 May 2025 10:40

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 45 Resp: 744

Ion	Ratio	Lower	Upper
45	100		
46	38.7	15.3	61.1

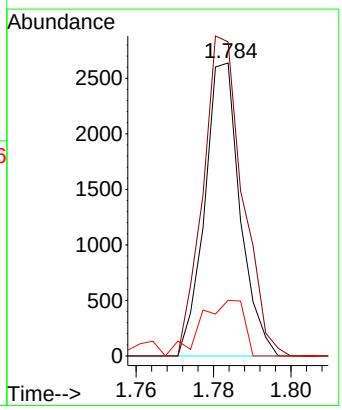


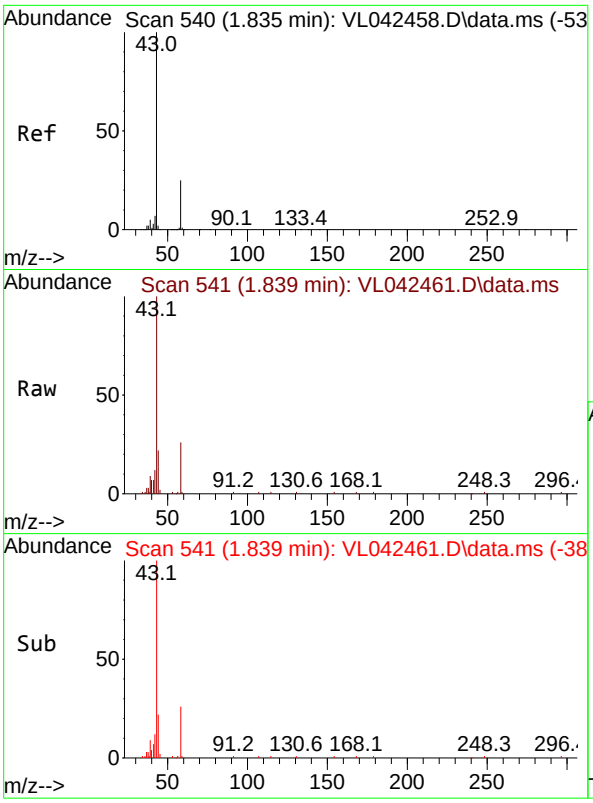


#14
Bromoethene
Concen: 0.542 ppbv
RT: 1.784 min Scan# 524
Delta R.T. 0.003 min
Lab File: VL042461.D
Acq: 01 May 2025 10:40

Tgt Ion:108 Resp: 1680

Ion	Ratio	Lower	Upper
108	100		
106	123.2	88.8	133.2
79	30.2	17.1	25.7#



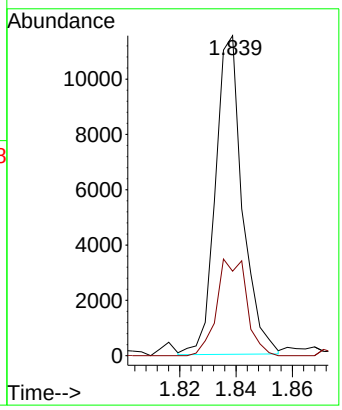


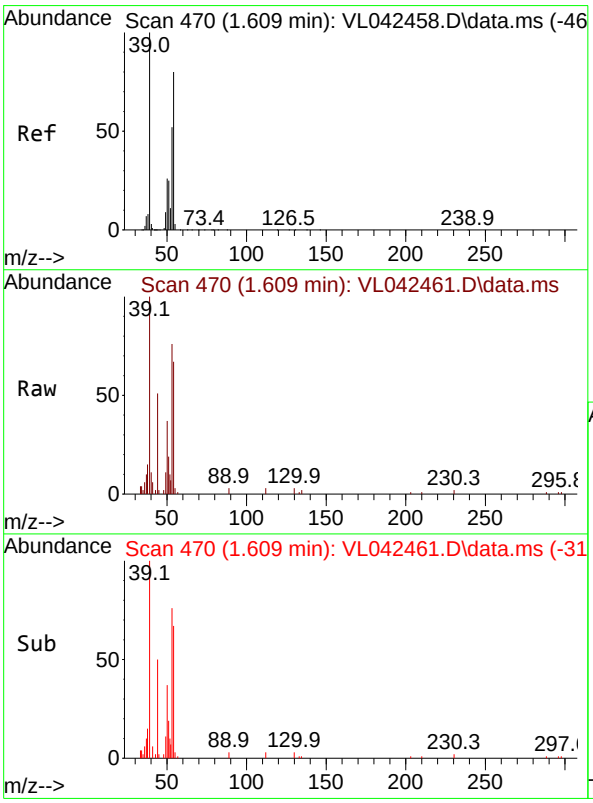
#15
Acetone
Concen: 0.610 ppbv
RT: 1.839 min Scan# 54
Delta R.T. 0.003 min
Lab File: VL042461.D
Acq: 01 May 2025 10:40

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 43 Resp: 7680

Ion	Ratio	Lower	Upper
43	100		
58	33.6	19.8	29.8#

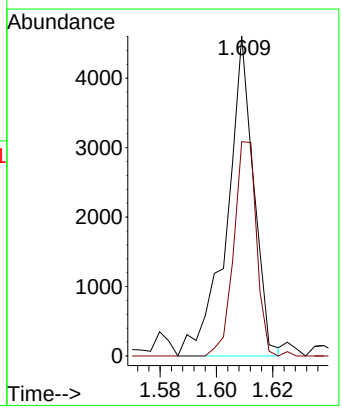


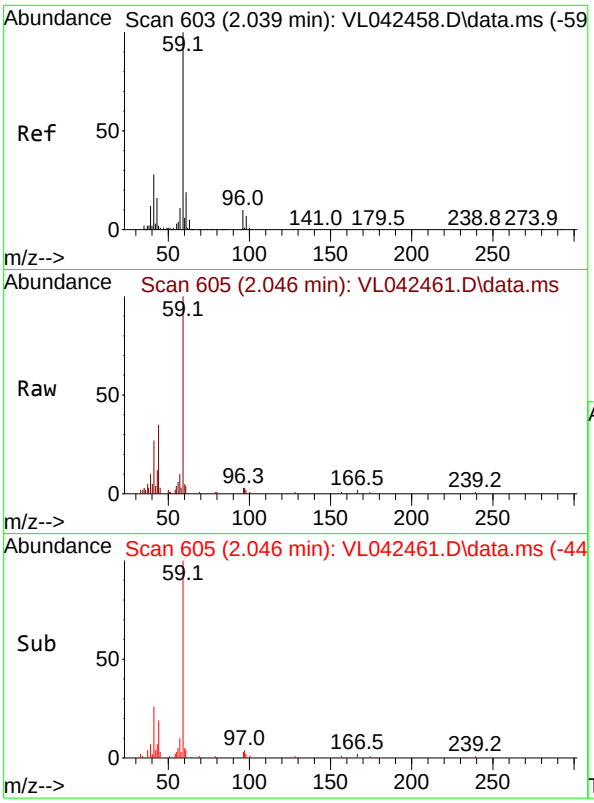


#16
1,3-Butadiene
Concen: 0.549 ppbv
RT: 1.609 min Scan# 470
Delta R.T. 0.000 min
Lab File: VL042461.D
Acq: 01 May 2025 10:40

Tgt Ion: 39 Resp: 3044

Ion	Ratio	Lower	Upper
39	100		
54	57.3	55.2	82.8



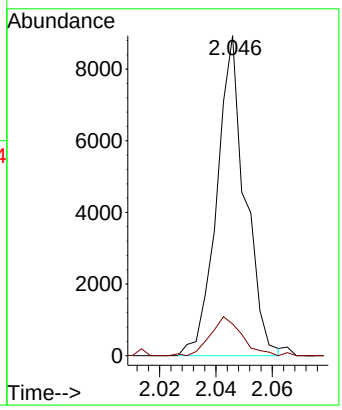


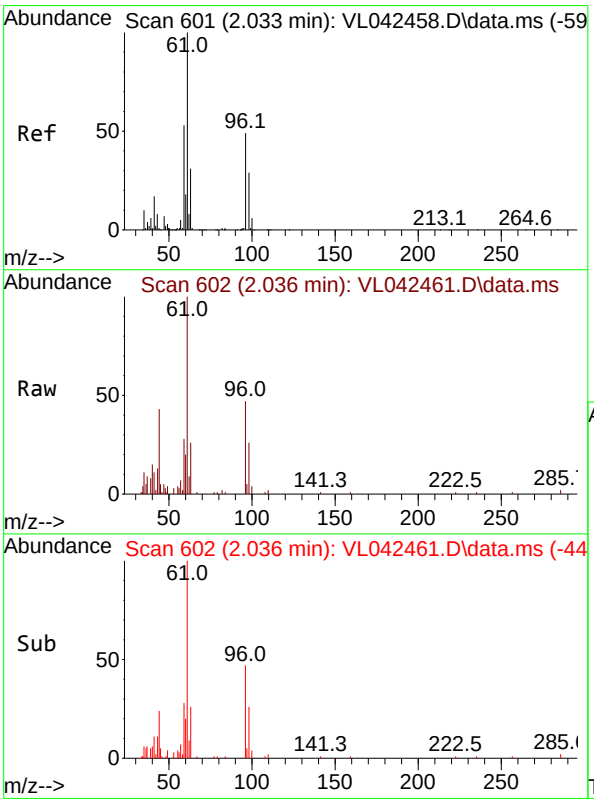
#17
tert-Butyl alcohol
Concen: 0.564 ppbv
RT: 2.046 min Scan# 6
Delta R.T. 0.007 min
Lab File: VL042461.D
Acq: 01 May 2025 10:40

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 59 Resp: 6256

Ion	Ratio	Lower	Upper
59	100		
57	13.7	8.3	12.5#

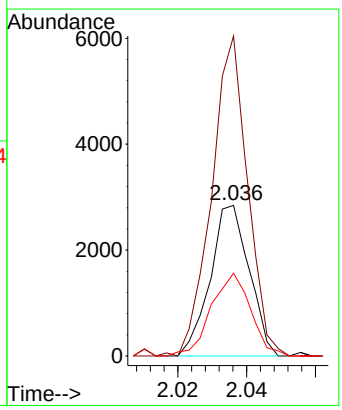


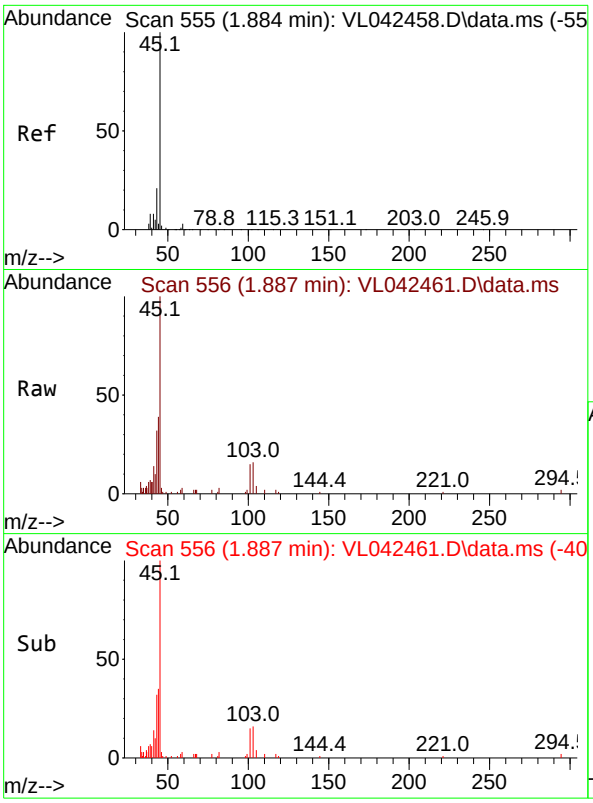


#18
1,1-Dichloroethene
Concen: 0.571 ppbv
RT: 2.036 min Scan# 602
Delta R.T. 0.003 min
Lab File: VL042461.D
Acq: 01 May 2025 10:40

Tgt Ion: 96 Resp: 2240

Ion	Ratio	Lower	Upper
96	100		
61	212.4	164.9	247.3
98	52.2	48.2	72.2



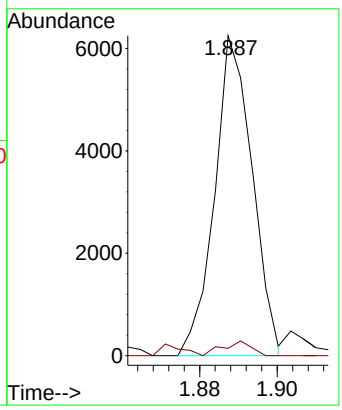


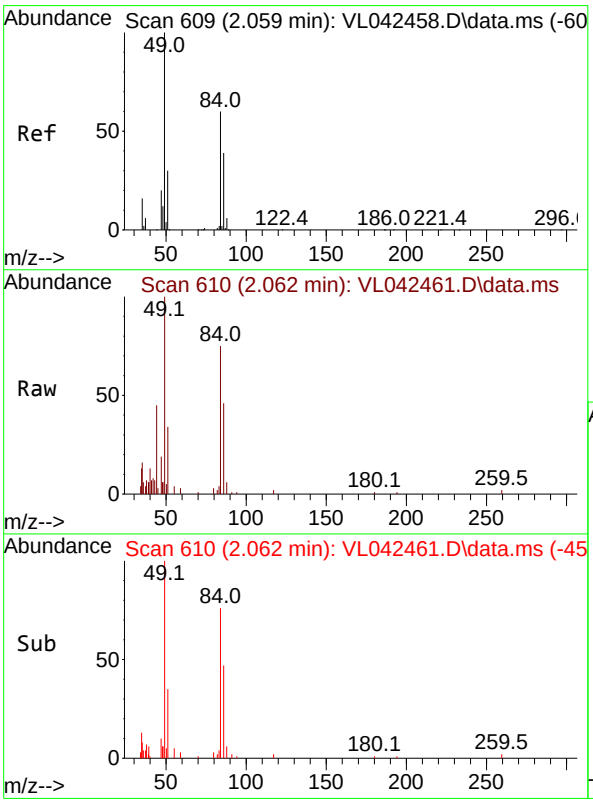
#19
Isopropyl Alcohol
Concen: 0.604 ppbv
RT: 1.887 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042461.D
Acq: 01 May 2025 10:40

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 45 Resp: 4208

Ion	Ratio	Lower	Upper
45	100		
58	3.4	1.6	2.4#

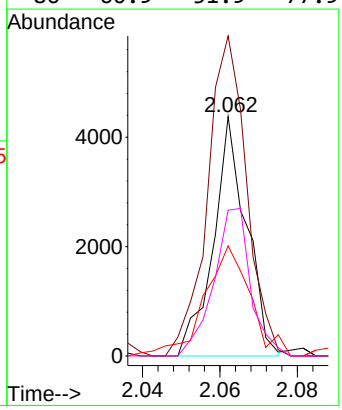


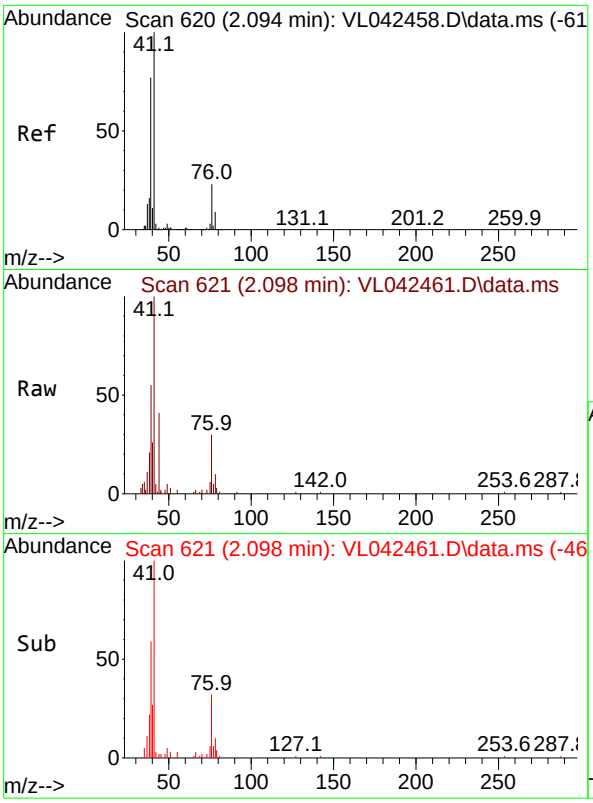


#20
Methylene Chloride
Concen: 0.686 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.003 min
Lab File: VL042461.D
Acq: 01 May 2025 10:40

Tgt Ion: 84 Resp: 2594

Ion	Ratio	Lower	Upper
84	100		
49	131.1	133.9	200.9#
51	40.9	41.0	61.6#
86	60.9	51.9	77.9



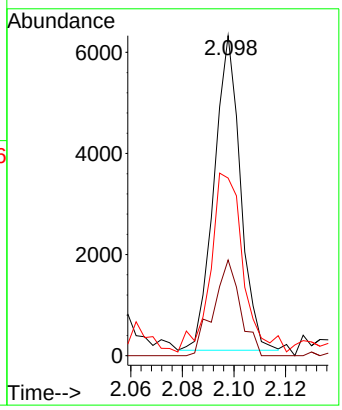


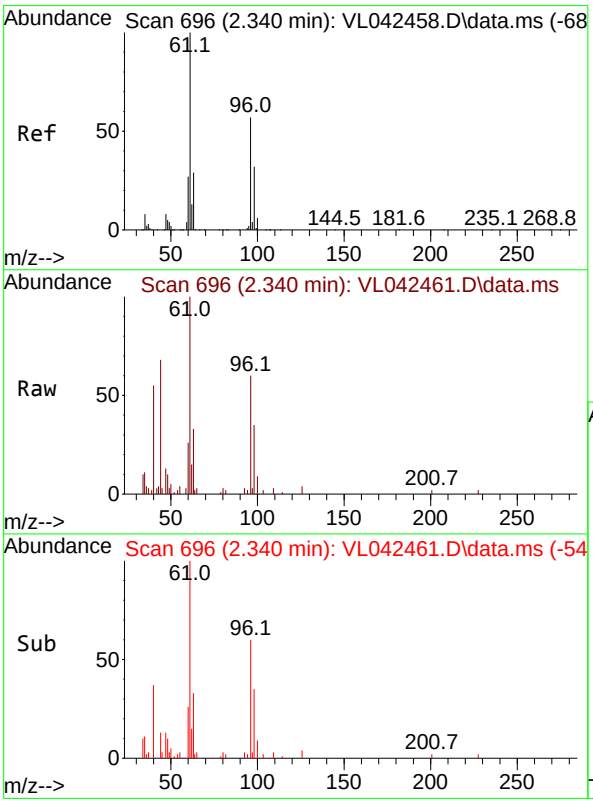
#21
Allyl Chloride
Concen: 0.546 ppbv
RT: 2.098 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL042461.D
Acq: 01 May 2025 10:40

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 41 Resp: 4420

Ion	Ratio	Lower	Upper
41	100		
76	30.8	19.6	29.4#
39	80.5	61.0	91.4

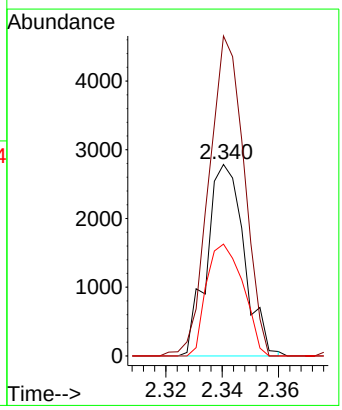


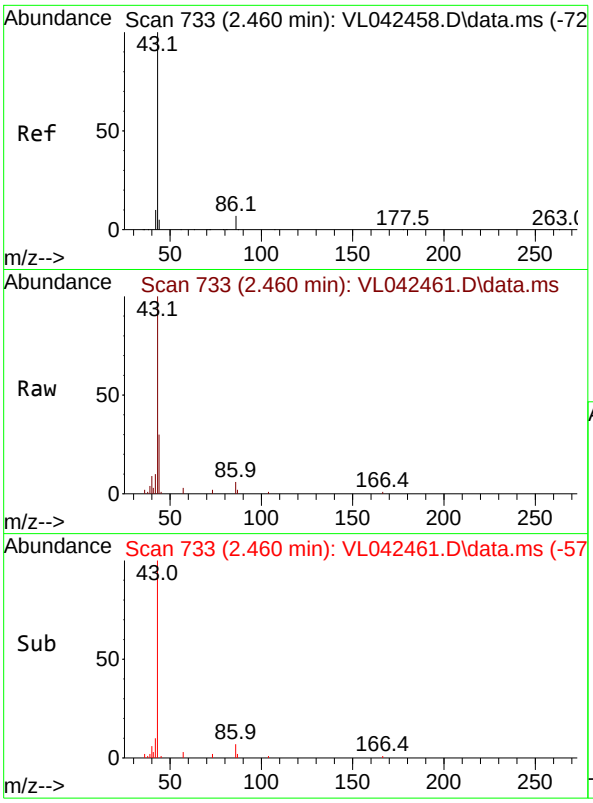


#22
trans-1,2-Dichloroethene
Concen: 0.557 ppbv
RT: 2.340 min Scan# 696
Delta R.T. 0.000 min
Lab File: VL042461.D
Acq: 01 May 2025 10:40

Tgt Ion: 96 Resp: 2554

Ion	Ratio	Lower	Upper
96	100		
61	170.3	141.8	212.6
98	59.5	45.0	67.6



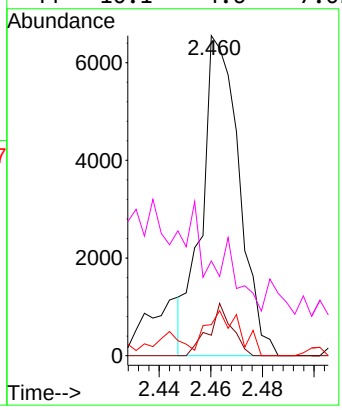


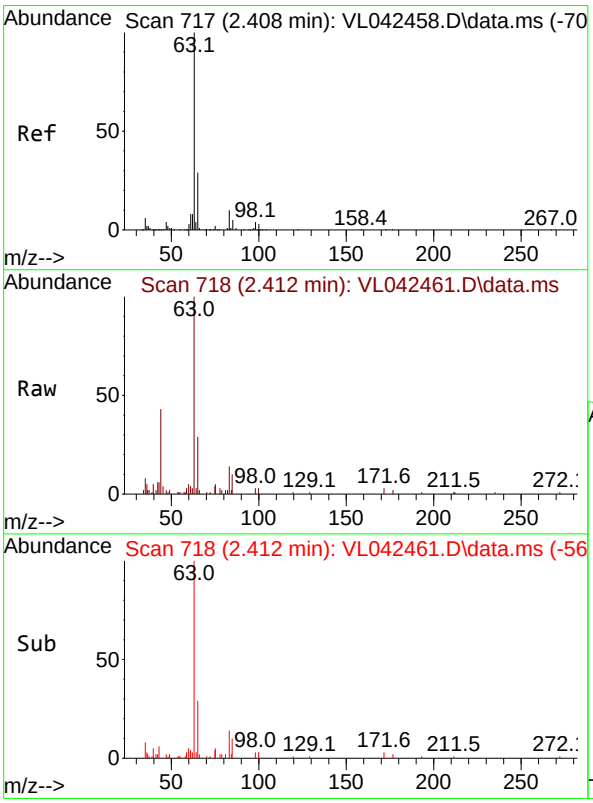
#23
Vinyl Acetate
Concen: 0.558 ppbv
RT: 2.460 min Scan# 7
Delta R.T. 0.000 min
Lab File: VL042461.D
Acq: 01 May 2025 10:40

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 43 Resp: 6541

Ion	Ratio	Lower	Upper
43	100		
86	6.4	5.5	8.3
42	9.7	8.3	12.5
44	10.1	4.6	7.0#

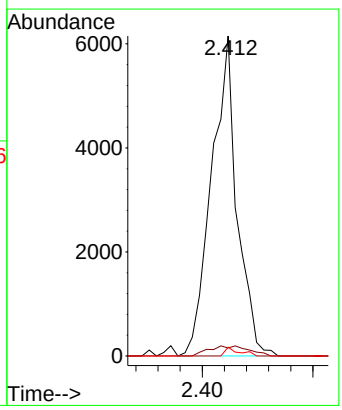


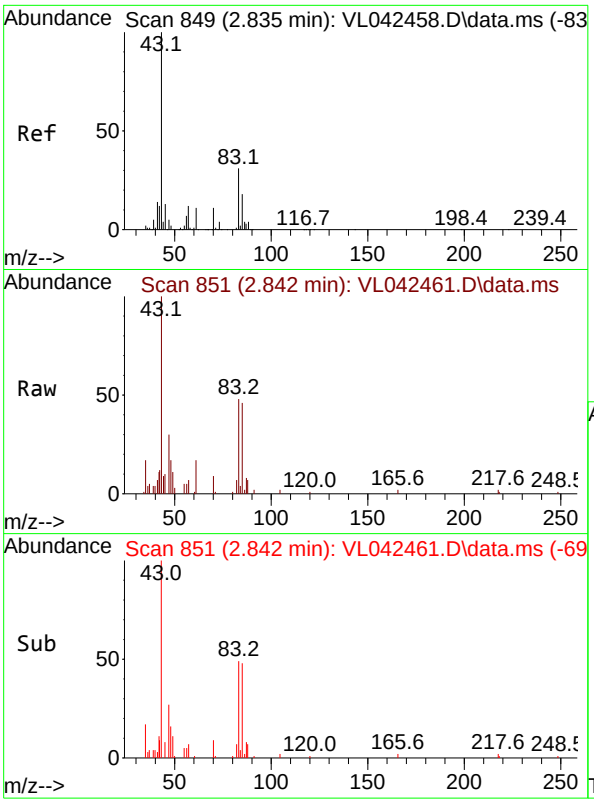


#24
1,1-Dichloroethane
Concen: 0.528 ppbv
RT: 2.412 min Scan# 718
Delta R.T. 0.003 min
Lab File: VL042461.D
Acq: 01 May 2025 10:40

Tgt Ion: 63 Resp: 4933

Ion	Ratio	Lower	Upper
63	100		
98	2.5	1.8	5.5
100	2.7	1.4	4.2



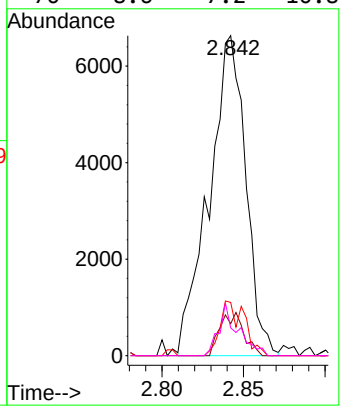


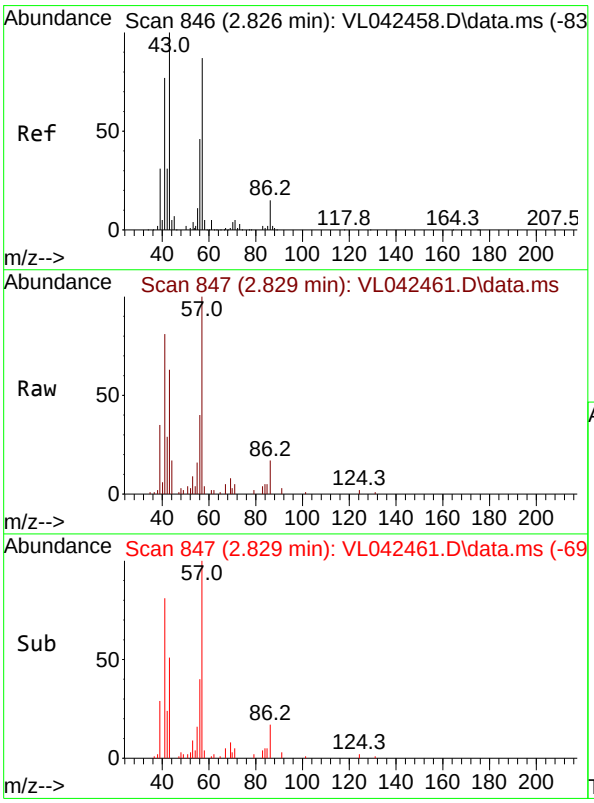
#25
Ethyl Acetate
Concen: 0.514 ppbv
RT: 2.842 min Scan# 8
Delta R.T. 0.007 min
Lab File: VL042461.D
Acq: 01 May 2025 10:40

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 43 Resp: 10344

Ion	Ratio	Lower	Upper
43	100		
45	8.7	7.8	11.6
61	11.8	7.2	10.8#
70	8.6	7.2	10.8

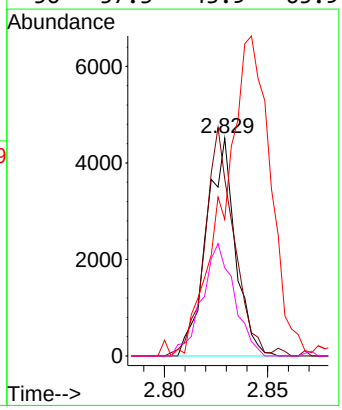


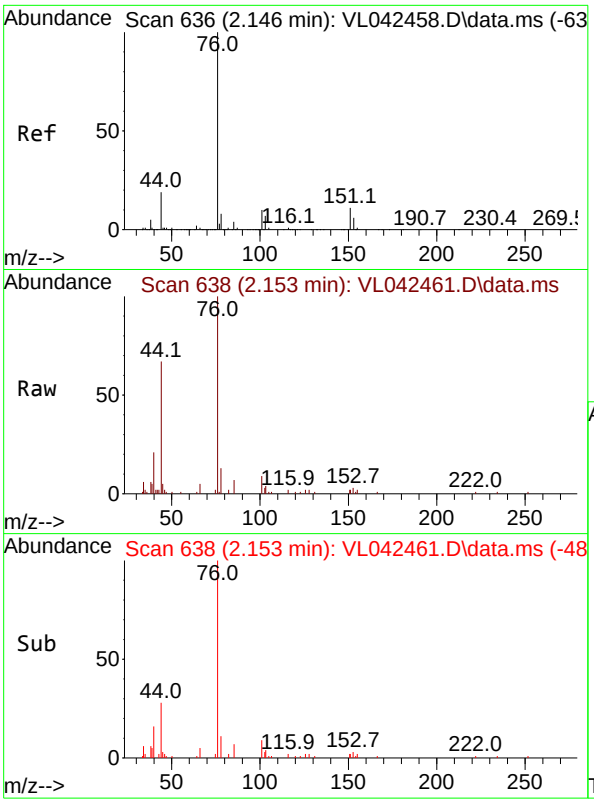


#26
Hexane
Concen: 0.502 ppbv
RT: 2.829 min Scan# 847
Delta R.T. 0.003 min
Lab File: VL042461.D
Acq: 01 May 2025 10:40

Tgt Ion: 57 Resp: 4403

Ion	Ratio	Lower	Upper
57	100		
41	105.8	77.8	116.8
43	240.9	187.0	280.6
56	57.3	43.9	65.9



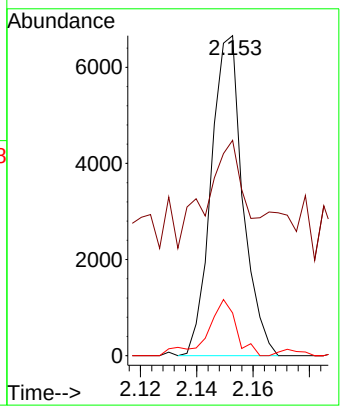


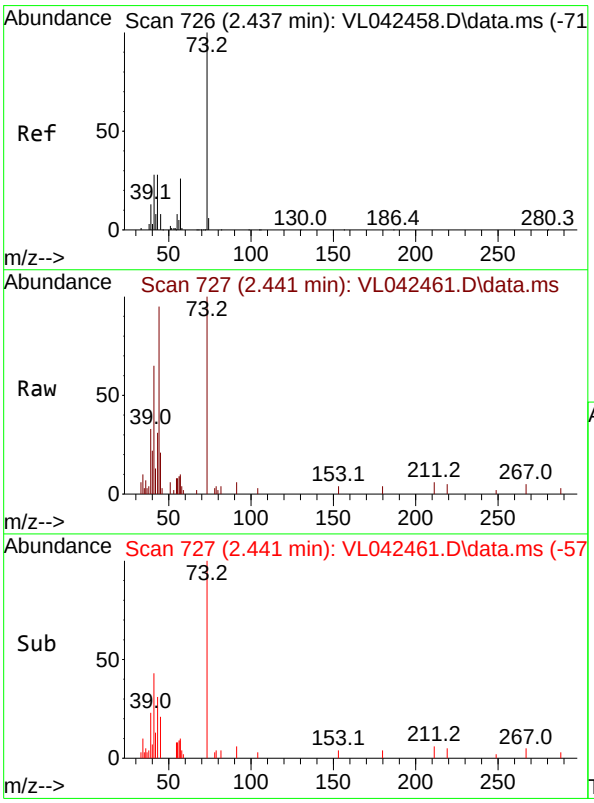
#27
Carbon Disulfide
Concen: 0.508 ppbv
RT: 2.153 min Scan# 6
Delta R.T. 0.007 min
Lab File: VL042461.D
Acq: 01 May 2025 10:40

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 76 Resp: 5201

Ion	Ratio	Lower	Upper
76	100		
44	110.3	21.0	31.6#
78	18.6	8.6	13.0#

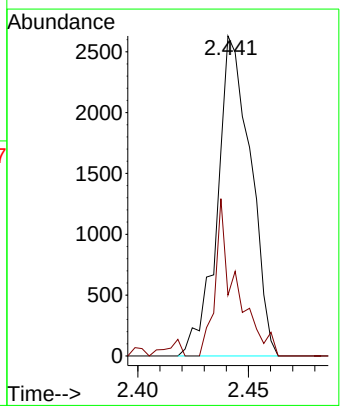


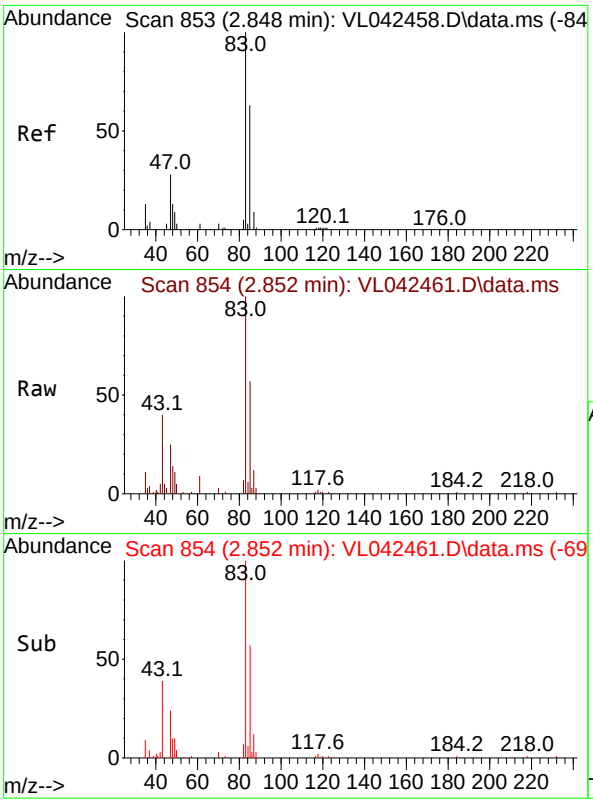


#28
Methyl tert-Butyl Ether
Concen: 0.524 ppbv
RT: 2.441 min Scan# 727
Delta R.T. 0.003 min
Lab File: VL042461.D
Acq: 01 May 2025 10:40

Tgt Ion: 73 Resp: 2762

Ion	Ratio	Lower	Upper
73	100		
57	34.1	19.9	29.9#



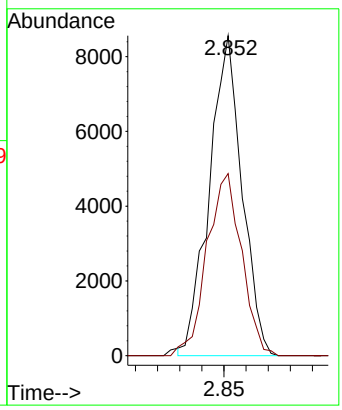


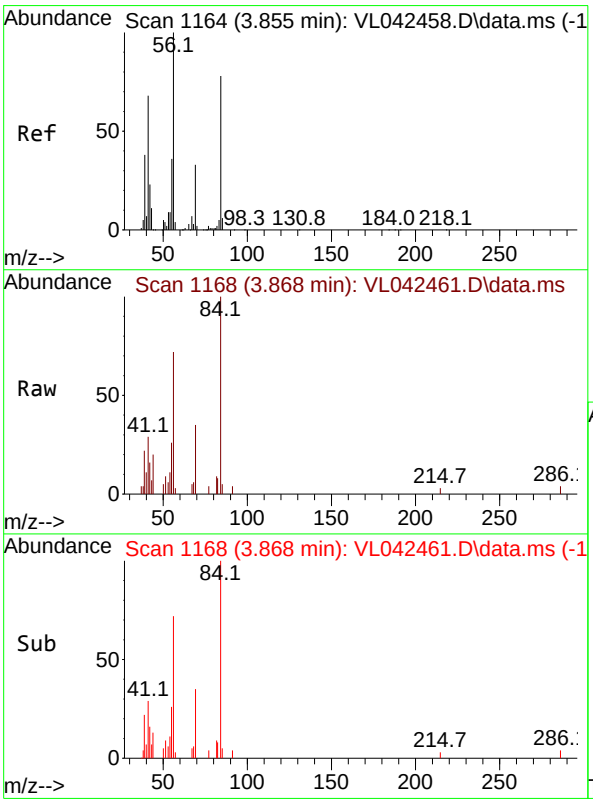
#29
Chloroform
Concen: 0.535 ppbv
RT: 2.852 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042461.D
Acq: 01 May 2025 10:40

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 83 Resp: 8791

Ion	Ratio	Lower	Upper
83	100		
85	56.9	50.4	75.6

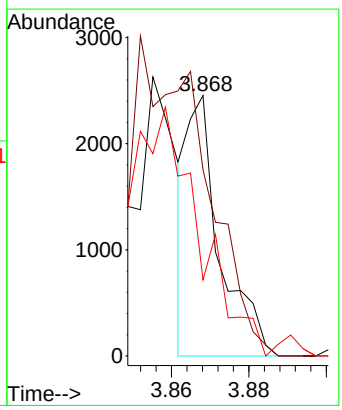


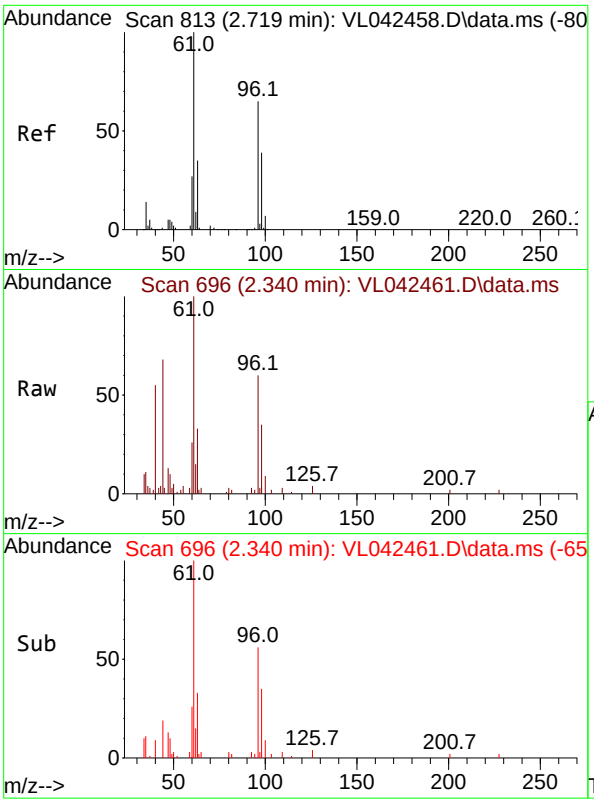


#30
Cyclohexane
Concen: 0.198 ppbv
RT: 3.868 min Scan# 1168
Delta R.T. 0.013 min
Lab File: VL042461.D
Acq: 01 May 2025 10:40

Tgt Ion: 84 Resp: 1455

Ion	Ratio	Lower	Upper
84	100		
56	0.0	98.1	147.1#
41	0.0	65.8	98.8#



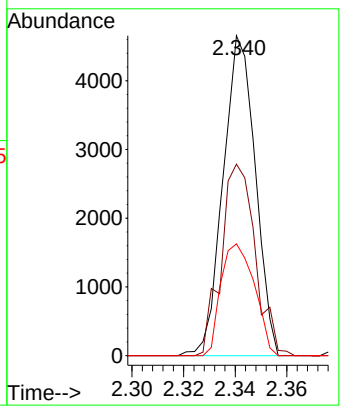


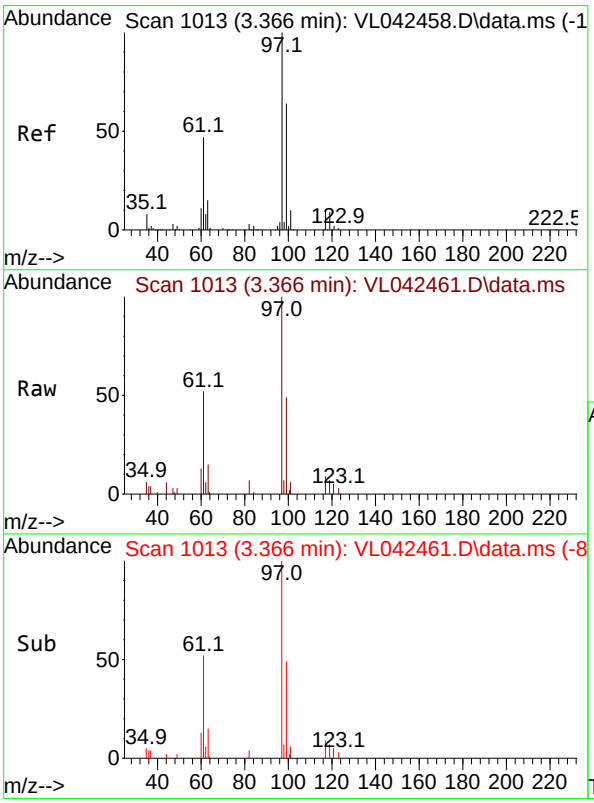
#31
cis-1,2-Dichloroethene
Concen: 0.394 ppbv
RT: 2.340 min Scan# 6
Delta R.T. -0.378 min
Lab File: VL042461.D
Acq: 01 May 2025 10:40

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 61 Resp: 4038

Ion	Ratio	Lower	Upper
61	100		
96	59.9	52.0	78.0
98	34.9	31.0	46.6

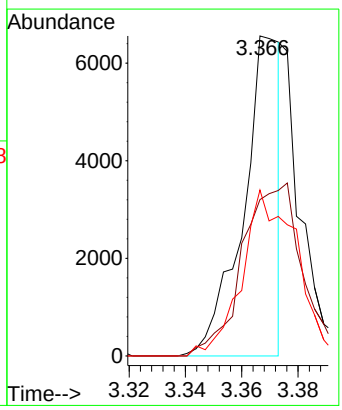


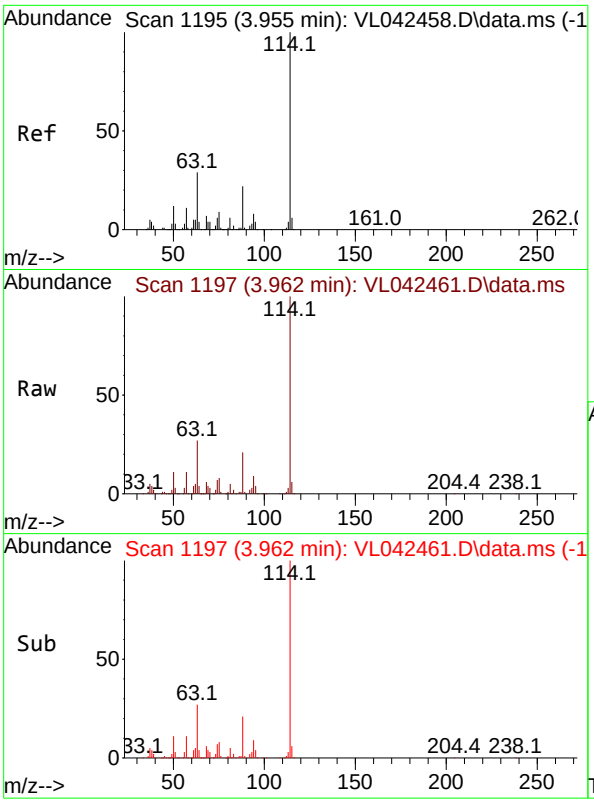


#32
1,1,1-Trichloroethane
Concen: 0.336 ppbv
RT: 3.366 min Scan# 1013
Delta R.T. 0.000 min
Lab File: VL042461.D
Acq: 01 May 2025 10:40

Tgt Ion: 97 Resp: 5990

Ion	Ratio	Lower	Upper
97	100		
99	85.9	50.7	76.1#
61	76.1	40.9	61.3#



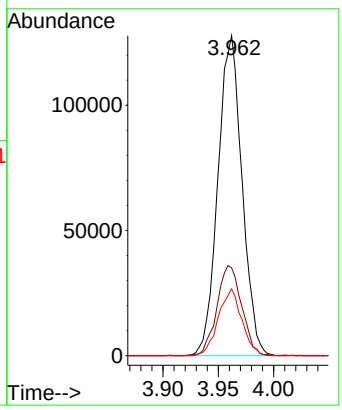


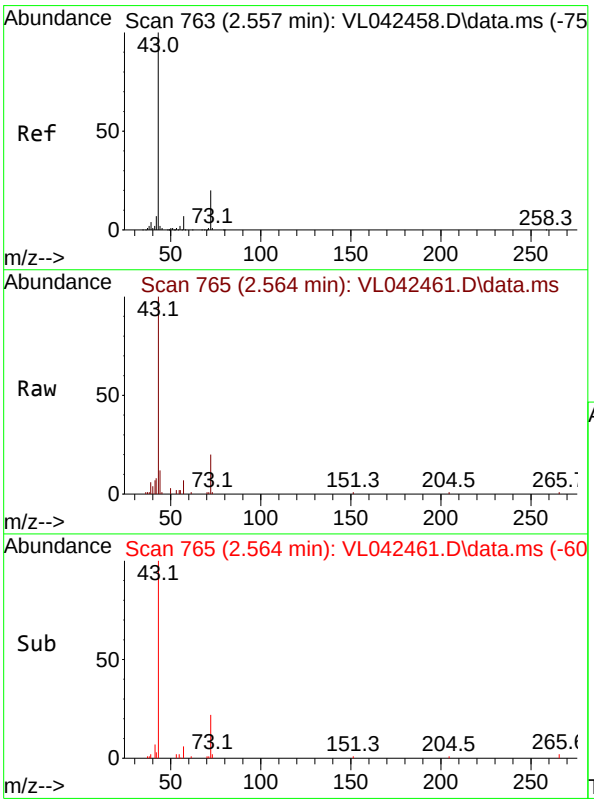
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.962 min Scan# 11
Delta R.T. 0.007 min
Lab File: VL042461.D
Acq: 01 May 2025 10:40

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion:114 Resp: 193701

Ion	Ratio	Lower	Upper
114	100		
63	29.0	23.1	34.7
88	20.3	16.1	24.1

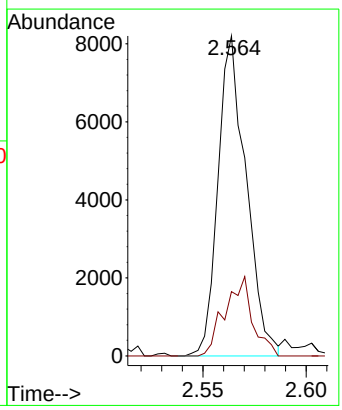


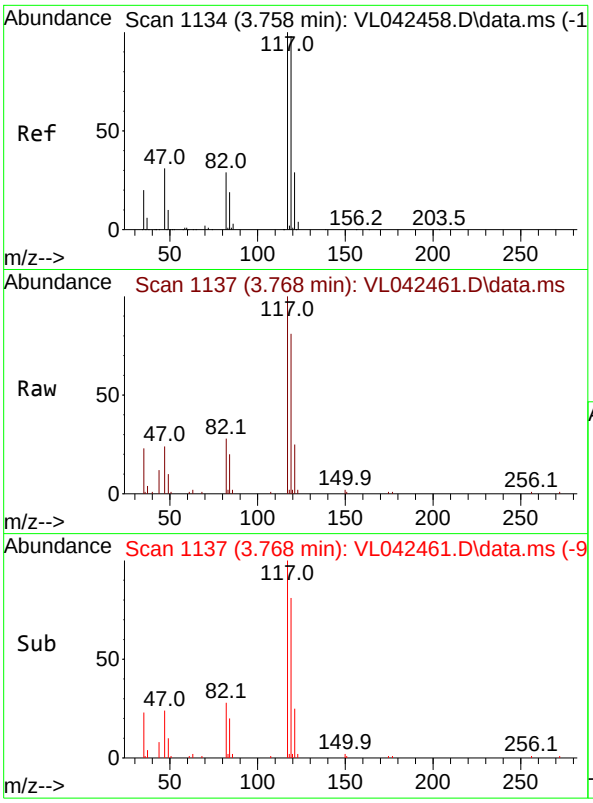


#34
2-Butanone
Concen: 0.554 ppbv
RT: 2.564 min Scan# 765
Delta R.T. 0.007 min
Lab File: VL042461.D
Acq: 01 May 2025 10:40

Tgt Ion: 43 Resp: 7766

Ion	Ratio	Lower	Upper
43	100		
72	24.4	16.7	25.1



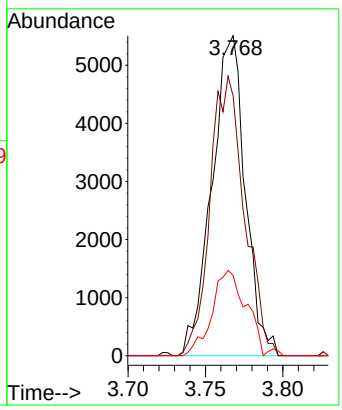


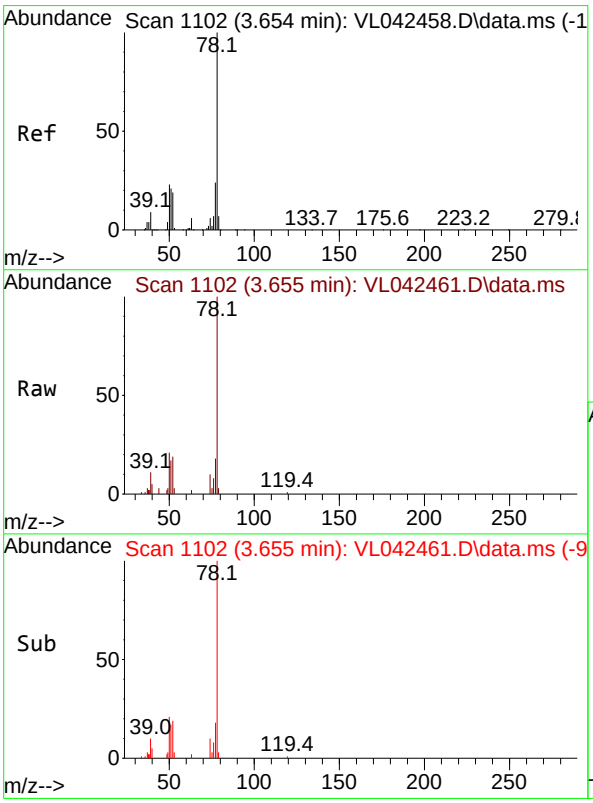
#35
Carbon Tetrachloride
Concen: 0.492 ppbv
RT: 3.768 min Scan# 1
Delta R.T. 0.010 min
Lab File: VL042461.D
Acq: 01 May 2025 10:40

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion:117 Resp: 8286

Ion	Ratio	Lower	Upper
117	100		
119	81.2	78.1	117.1
121	25.1	23.0	34.6

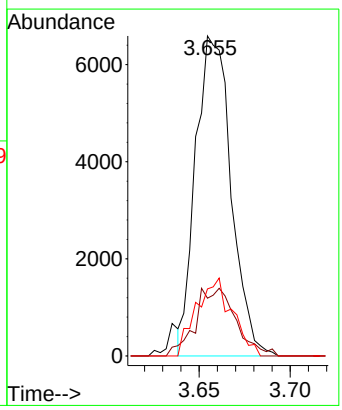


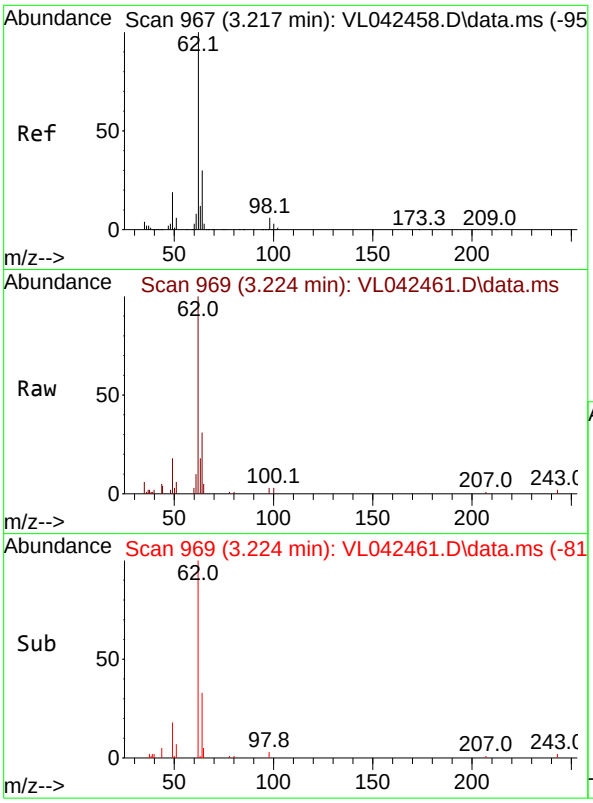


#36
Benzene
Concen: 0.490 ppbv
RT: 3.655 min Scan# 1102
Delta R.T. 0.000 min
Lab File: VL042461.D
Acq: 01 May 2025 10:40

Tgt Ion: 78 Resp: 8951

Ion	Ratio	Lower	Upper
78	100		
77	18.0	18.9	28.3#
50	20.9	18.4	27.6



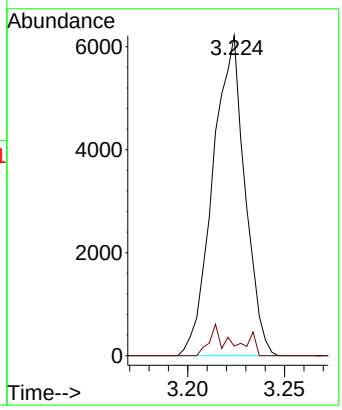


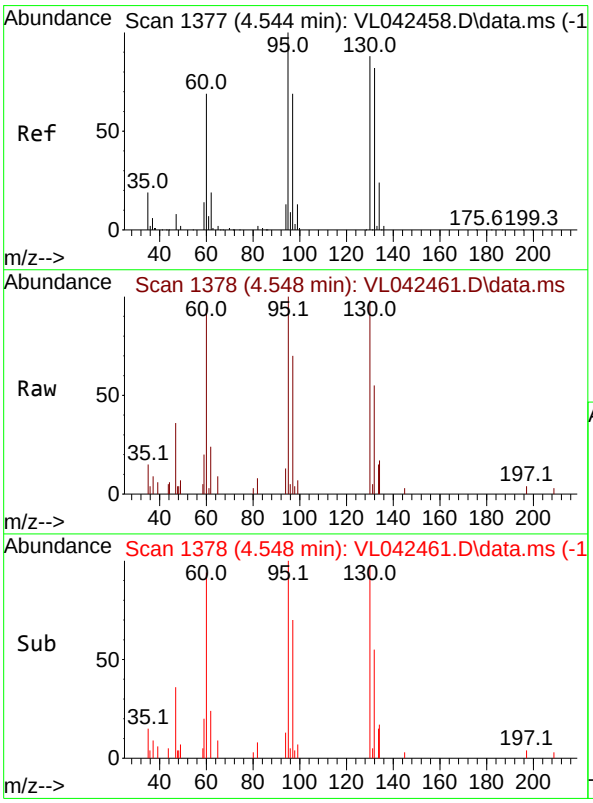
#37
1,2-Dichloroethane
Concen: 0.507 ppbv
RT: 3.224 min Scan# 9
Delta R.T. 0.007 min
Lab File: VL042461.D
Acq: 01 May 2025 10:40

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 62 Resp: 7149

Ion	Ratio	Lower	Upper
62	100		
98	7.0	4.3	6.5#

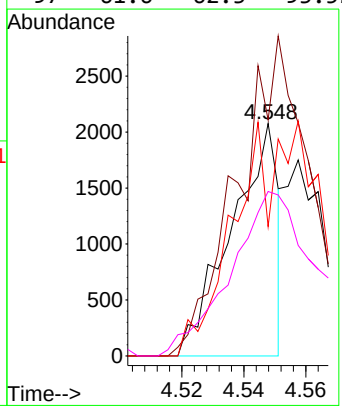


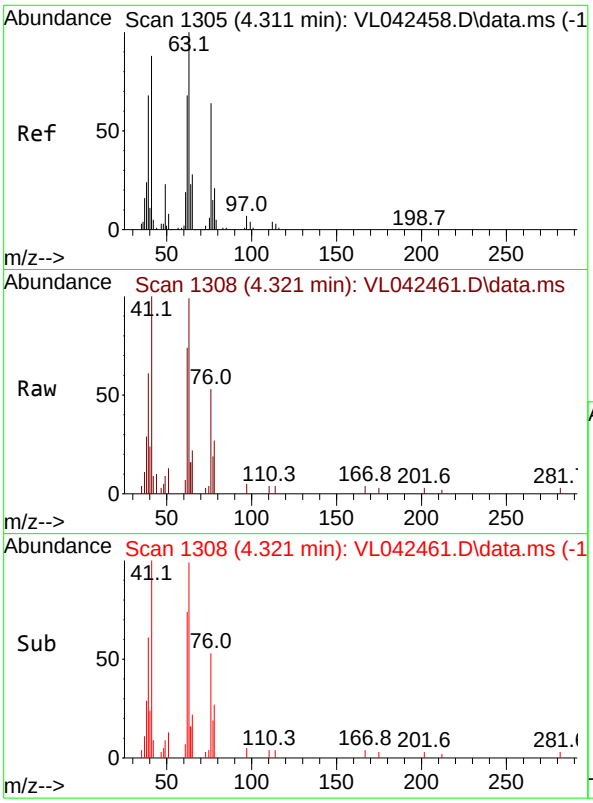


#38
Trichloroethene
Concen: 0.312 ppbv
RT: 4.548 min Scan# 1378
Delta R.T. 0.003 min
Lab File: VL042461.D
Acq: 01 May 2025 10:40

Tgt Ion:130 Resp: 2173

Ion	Ratio	Lower	Upper
130	100		
95	97.7	91.0	136.4
132	55.7	74.2	111.4#
97	61.6	62.3	93.5#



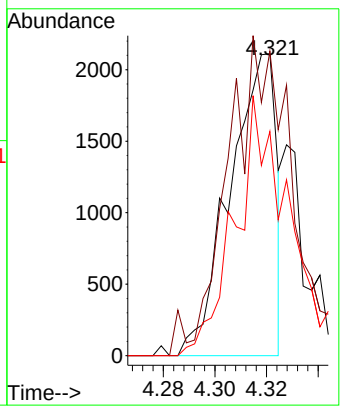


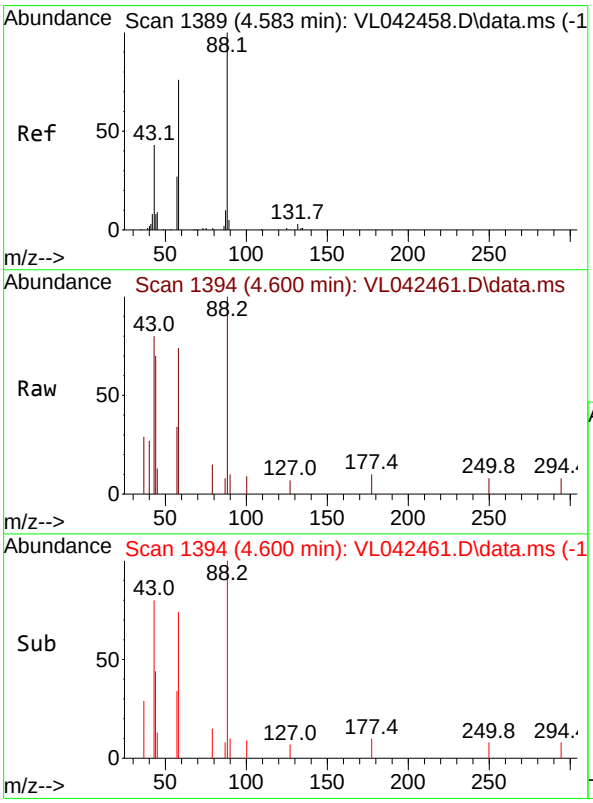
#39
1,2-Dichloropropane
Concen: 0.387 ppbv
RT: 4.321 min Scan# 1
Delta R.T. 0.010 min
Lab File: VL042461.D
Acq: 01 May 2025 10:40

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 63 Resp: 2649

Ion	Ratio	Lower	Upper
63	100		
41	73.6	69.8	104.6
62	63.8	54.3	81.5

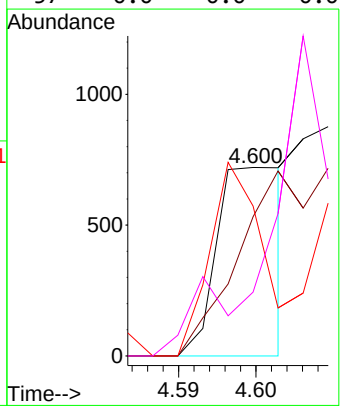


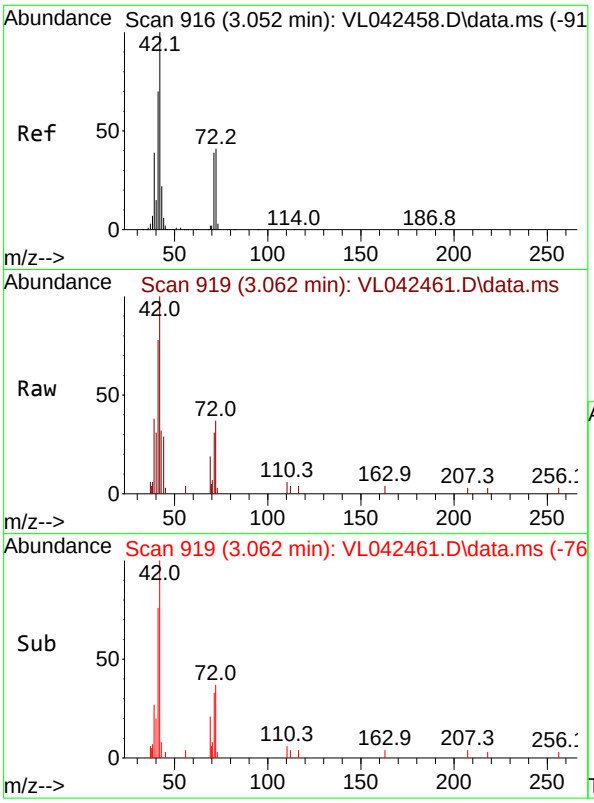


#40
1,4-Dioxane
Concen: 0.138 ppbv
RT: 4.600 min Scan# 1394
Delta R.T. 0.016 min
Lab File: VL042461.D
Acq: 01 May 2025 10:40

Tgt Ion: 88 Resp: 438

Ion	Ratio	Lower	Upper
88	100		
58	18.5	0.0	0.0#
43	0.0	0.0	0.0
57	0.0	0.0	0.0



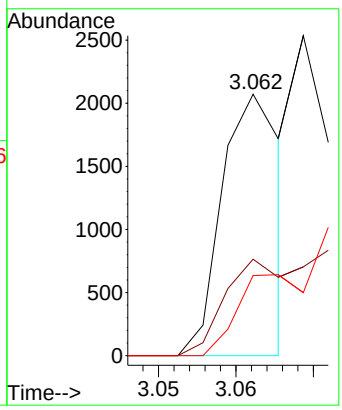


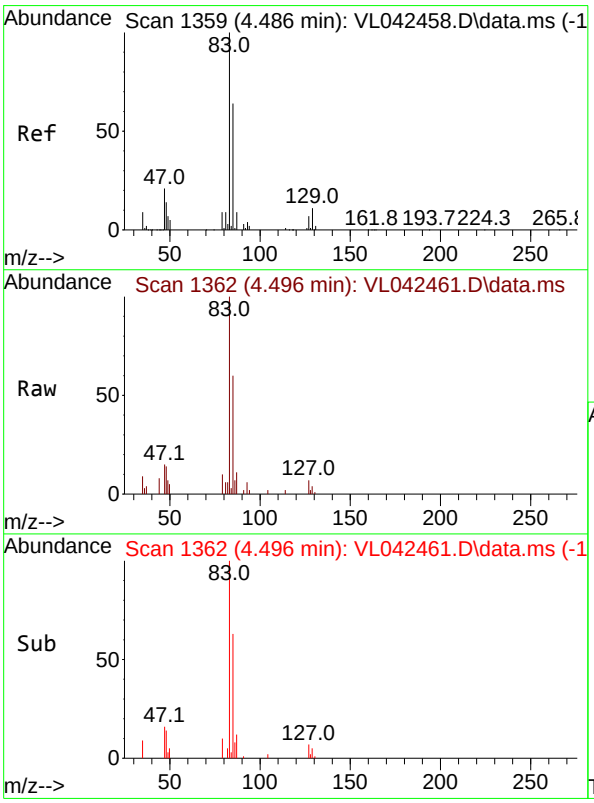
#41
Tetrahydrofuran
Concen: 0.167 ppbv
RT: 3.062 min Scan# 91
Delta R.T. 0.010 min
Lab File: VL042461.D
Acq: 01 May 2025 10:40

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 42 Resp: 1107

Ion	Ratio	Lower	Upper
42	100		
72	0.0	33.5	50.3#
71	0.0	32.6	49.0#

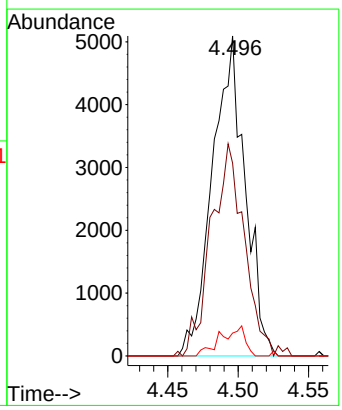


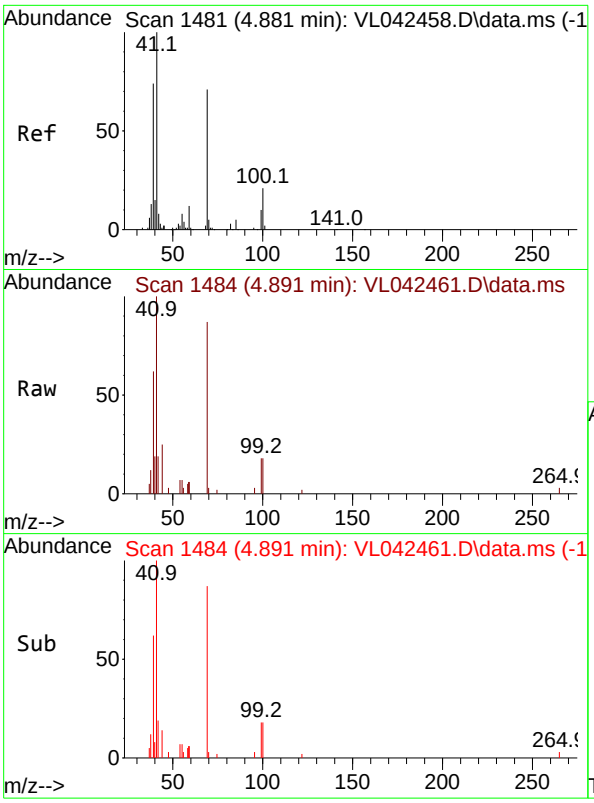


#42
Bromodichloromethane
Concen: 0.477 ppbv
RT: 4.496 min Scan# 1362
Delta R.T. 0.010 min
Lab File: VL042461.D
Acq: 01 May 2025 10:40

Tgt Ion: 83 Resp: 8212

Ion	Ratio	Lower	Upper
83	100		
85	58.8	51.5	77.3
127	7.1	5.4	8.2



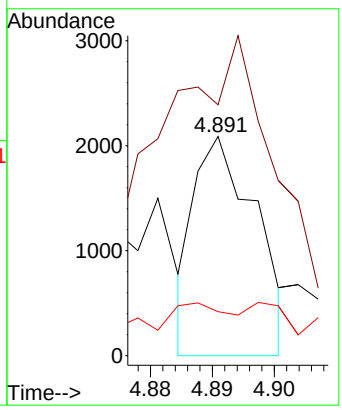


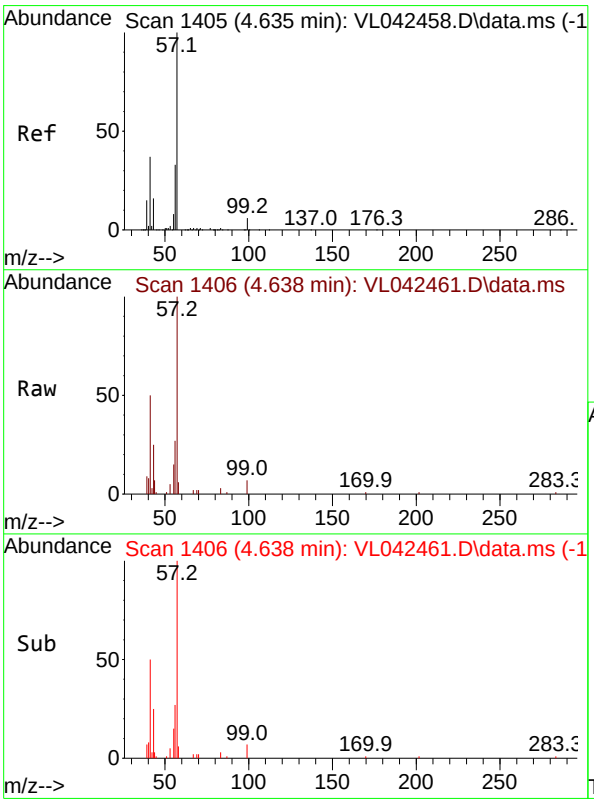
#43
Methyl Methacrylate
Concen: 0.213 ppbv
RT: 4.891 min Scan# 14
Delta R.T. 0.010 min
Lab File: VL042461.D
Acq: 01 May 2025 10:40

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 69 Resp: 1450

Ion	Ratio	Lower	Upper
69	100		
41	365.2	120.8	181.2#
100	73.4	26.7	40.1#

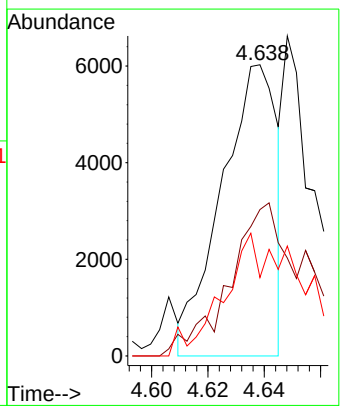


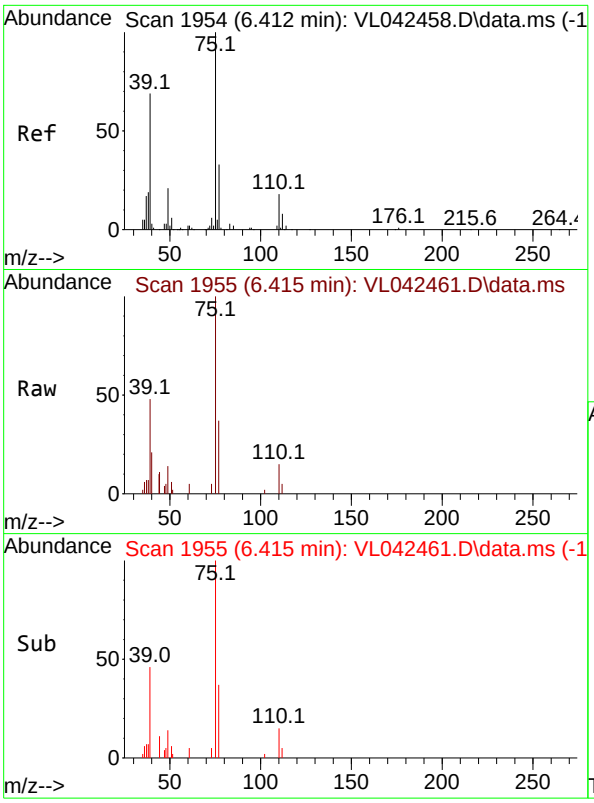


#44
2,2,4-Trimethylpentane
Concen: 0.277 ppbv
RT: 4.638 min Scan# 1406
Delta R.T. 0.003 min
Lab File: VL042461.D
Acq: 01 May 2025 10:40

Tgt Ion: 57 Resp: 8185

Ion	Ratio	Lower	Upper
57	100		
41	74.7	30.6	45.8#
56	61.6	25.0	37.6#



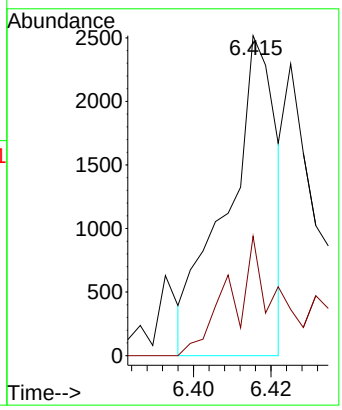


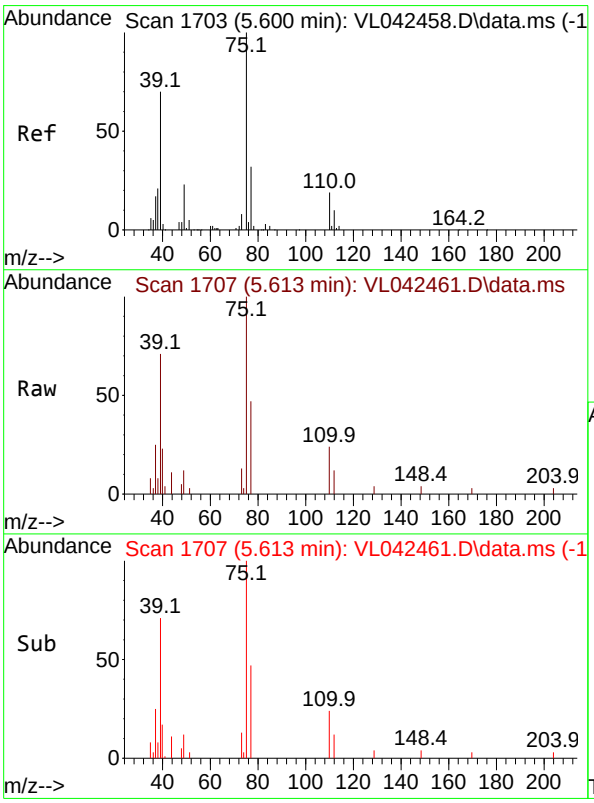
#45
t-1,3-Dichloropropene
Concen: 0.248 ppbv
RT: 6.415 min Scan# 1
Delta R.T. 0.003 min
Lab File: VL042461.D
Acq: 01 May 2025 10:40

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 75 Resp: 2226

Ion	Ratio	Lower	Upper
75	100		
77	37.3	26.3	39.5

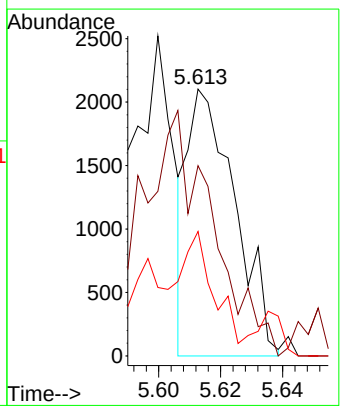


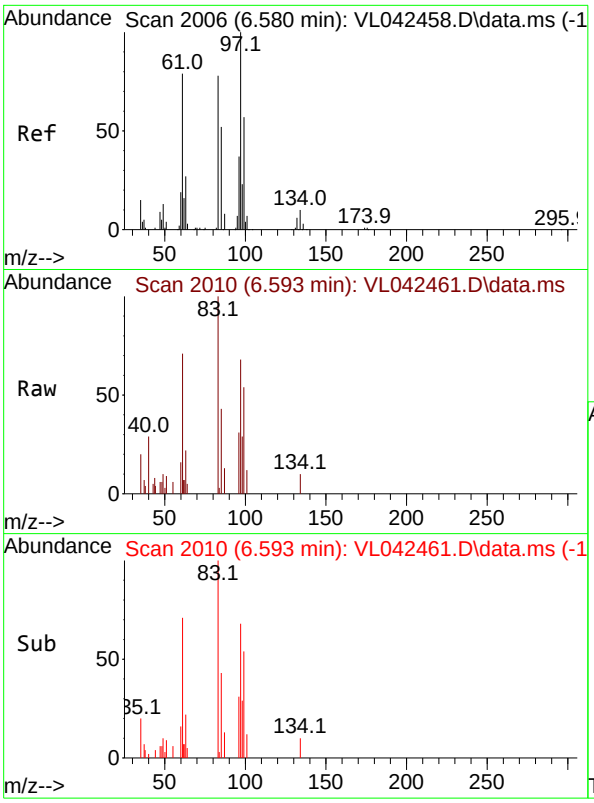


#46
cis-1,3-Dichloropropene
Concen: 0.212 ppbv
RT: 5.613 min Scan# 1707
Delta R.T. 0.013 min
Lab File: VL042461.D
Acq: 01 May 2025 10:40

Tgt Ion: 75 Resp: 2250

Ion	Ratio	Lower	Upper
75	100		
39	73.1	55.7	83.5
77	32.5	25.8	38.8



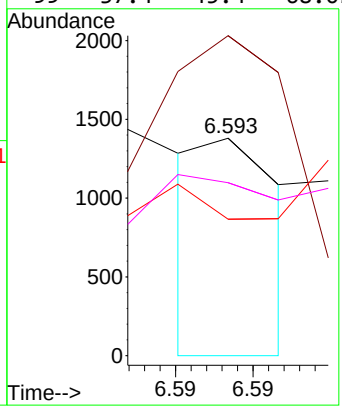


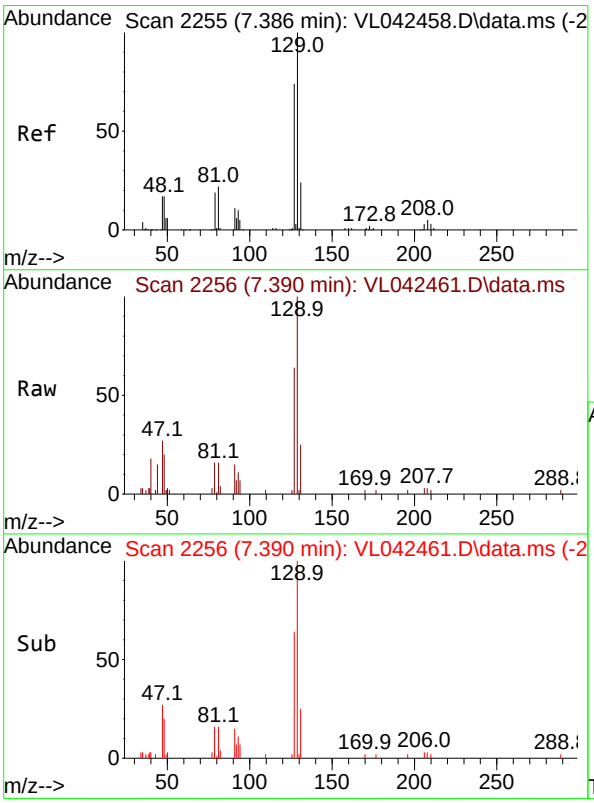
#47
1,1,2-Trichloroethane
Concen: 0.064 ppbv
RT: 6.593 min Scan# 2
Delta R.T. 0.013 min
Lab File: VL042461.D
Acq: 01 May 2025 10:40

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 97 Resp: 478

Ion	Ratio	Lower	Upper
97	100		
83	79.6	62.2	93.2
85	0.0	41.5	62.3#
99	37.4	45.4	68.0#

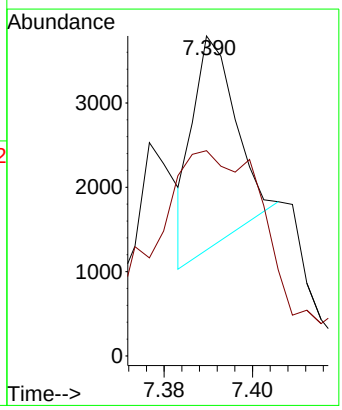


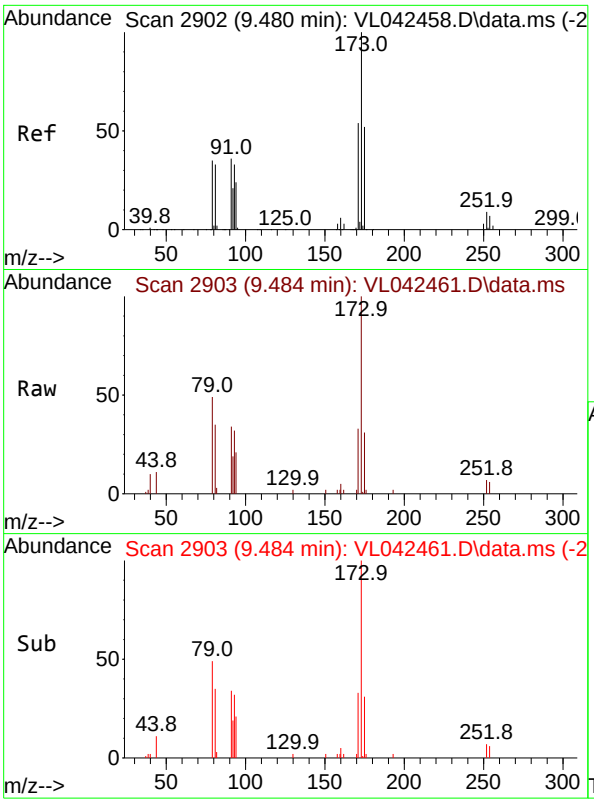


#48
Dibromochloromethane
Concen: 0.136 ppbv
RT: 7.390 min Scan# 2256
Delta R.T. 0.003 min
Lab File: VL042461.D
Acq: 01 May 2025 10:40

Tgt Ion:129 Resp: 1718

Ion	Ratio	Lower	Upper
129	100		
127	273.9	39.5	118.5#



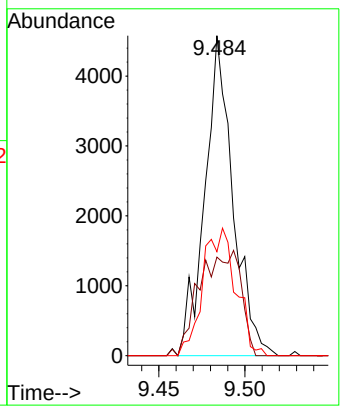


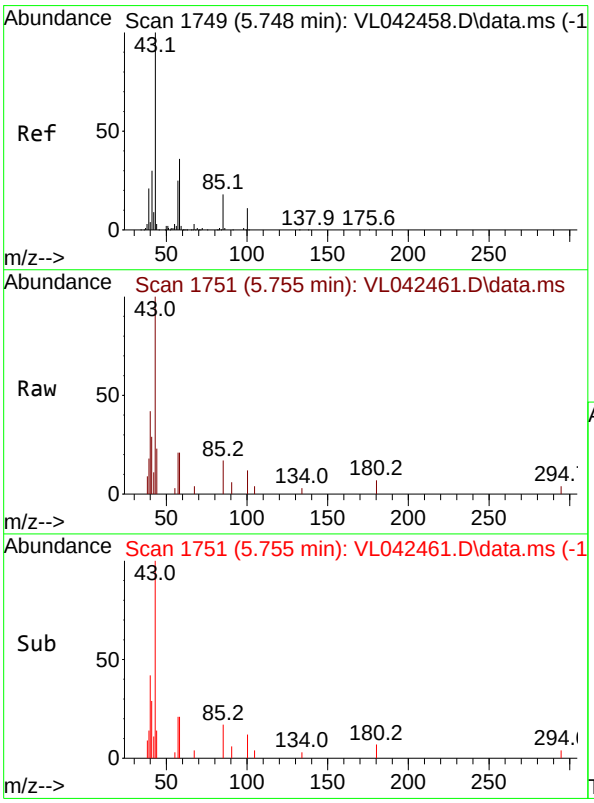
#49
Bromoform
Concen: 0.492 ppbv
RT: 9.484 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042461.D
Acq: 01 May 2025 10:40

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion:173 Resp: 5228

Ion	Ratio	Lower	Upper
173	100		
175	48.2	38.9	58.3
171	46.7	40.6	60.8

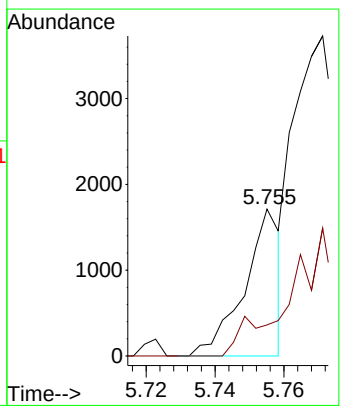


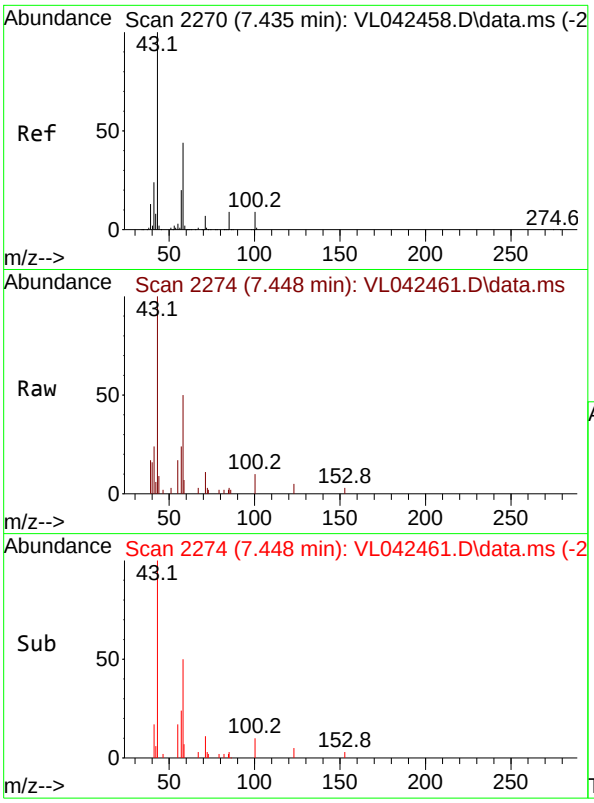


#50
4-Methyl-2-Pentanone
Concen: 0.069 ppbv
RT: 5.755 min Scan# 1751
Delta R.T. 0.007 min
Lab File: VL042461.D
Acq: 01 May 2025 10:40

Tgt Ion: 43 Resp: 1231

Ion	Ratio	Lower	Upper
43	100		
58	0.0	29.5	44.3#



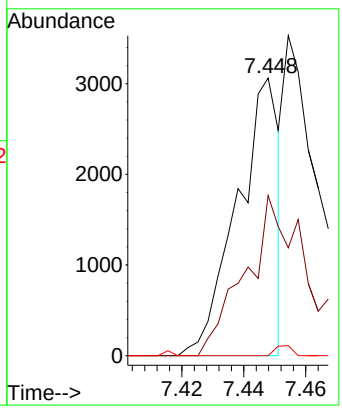


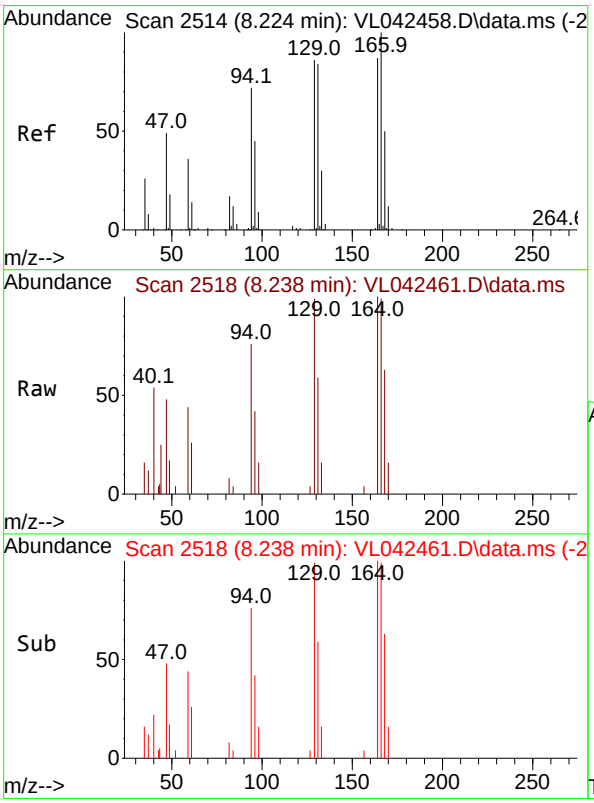
#51
2-Hexanone
Concen: 0.202 ppbv
RT: 7.448 min Scan# 2
Delta R.T. 0.013 min
Lab File: VL042461.D
Acq: 01 May 2025 10:40

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 43 Resp: 2872

Ion	Ratio	Lower	Upper
43	100		
58	98.9	37.2	55.8#
98	0.0	0.4	0.6#

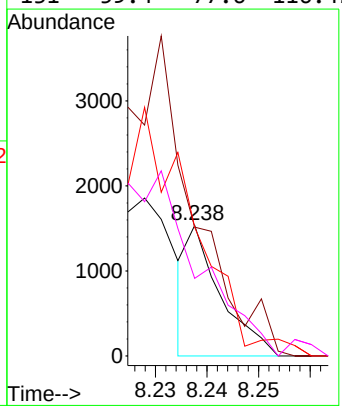


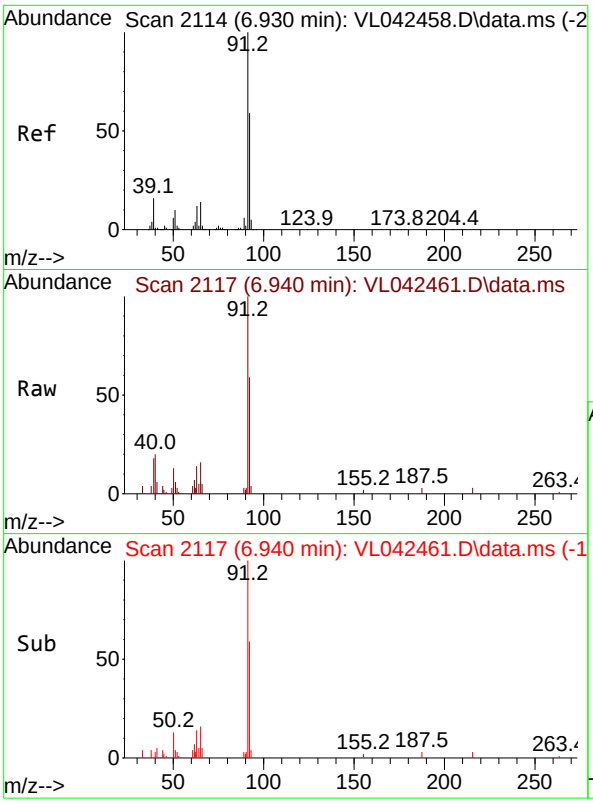


#52
Tetrachloroethene
Concen: 0.100 ppbv
RT: 8.238 min Scan# 2518
Delta R.T. 0.013 min
Lab File: VL042461.D
Acq: 01 May 2025 10:40

Tgt Ion:164 Resp: 694

Ion	Ratio	Lower	Upper
164	100		
166	95.0	91.6	137.4
129	85.7	79.0	118.4
131	59.4	77.6	116.4#



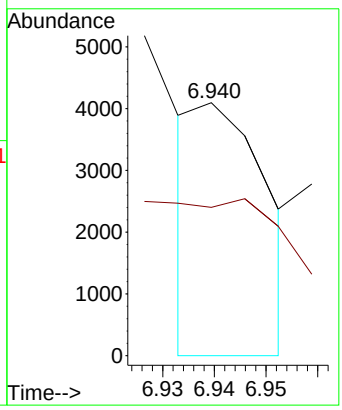


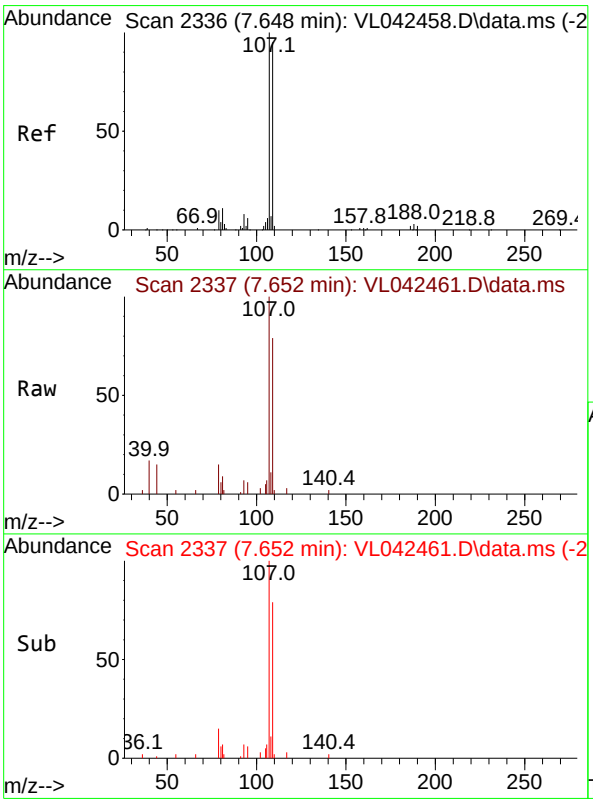
#53
Toluene
Concen: 0.101 ppbv
RT: 6.940 min Scan# 21
Delta R.T. 0.010 min
Lab File: VL042461.D
Acq: 01 May 2025 10:40

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 91 Resp: 1946

Ion	Ratio	Lower	Upper
91	100		
92	265.3	47.9	71.9#

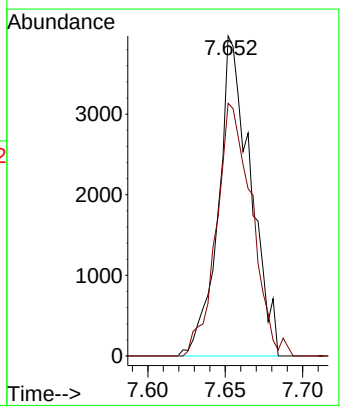


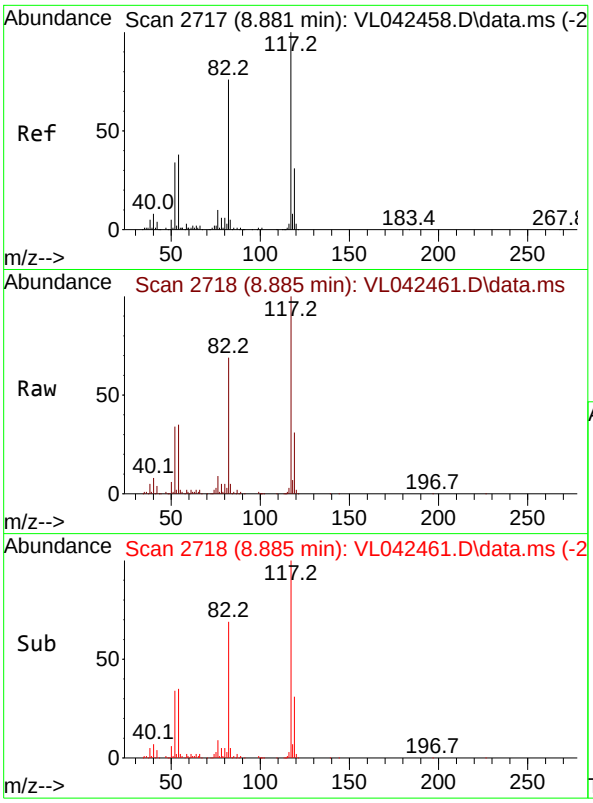


#54
1,2-Dibromoethane
Concen: 0.494 ppbv
RT: 7.652 min Scan# 2337
Delta R.T. 0.003 min
Lab File: VL042461.D
Acq: 01 May 2025 10:40

Tgt Ion:107 Resp: 5705

Ion	Ratio	Lower	Upper
107	100		
109	78.9	76.0	114.0



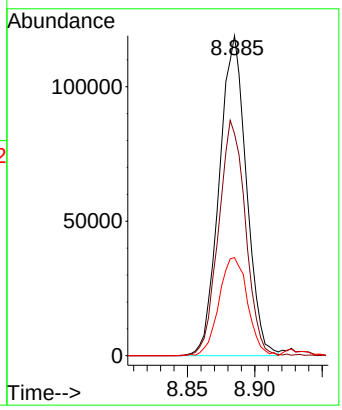


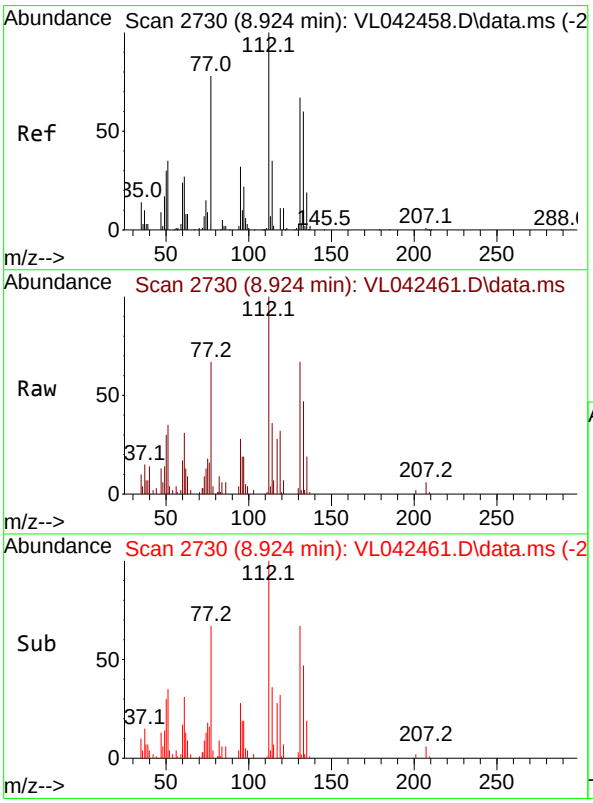
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.885 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042461.D
Acq: 01 May 2025 10:40

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion:117 Resp: 166625

Ion	Ratio	Lower	Upper
117	100		
82	73.2	63.5	95.3
119	32.3	25.8	38.8

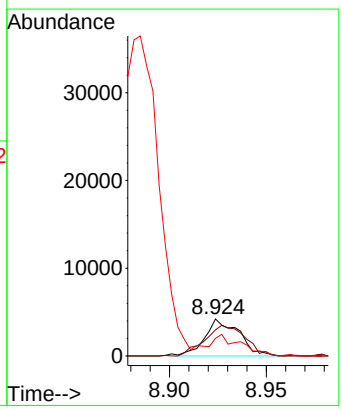


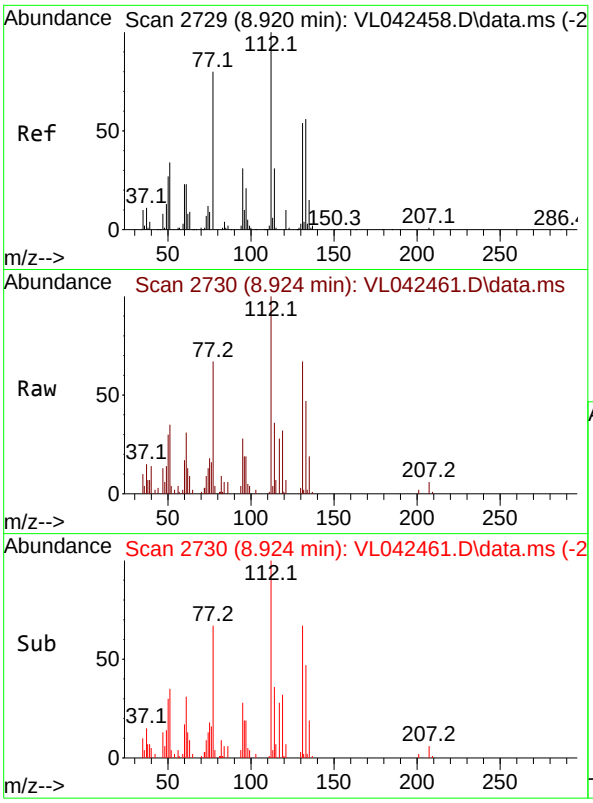


#56
1,1,1,2-Tetrachloroethane
Concen: 0.524 ppbv
RT: 8.924 min Scan# 2730
Delta R.T. 0.000 min
Lab File: VL042461.D
Acq: 01 May 2025 10:40

Tgt Ion:131 Resp: 5152

Ion	Ratio	Lower	Upper
131	100		
133	98.8	76.0	114.0
119	45.8	46.1	69.1#



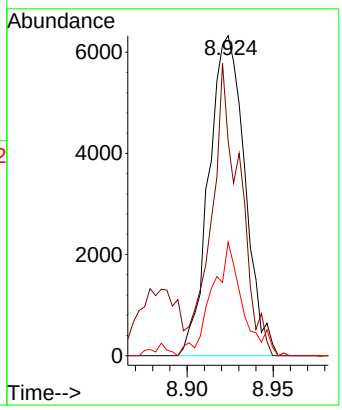


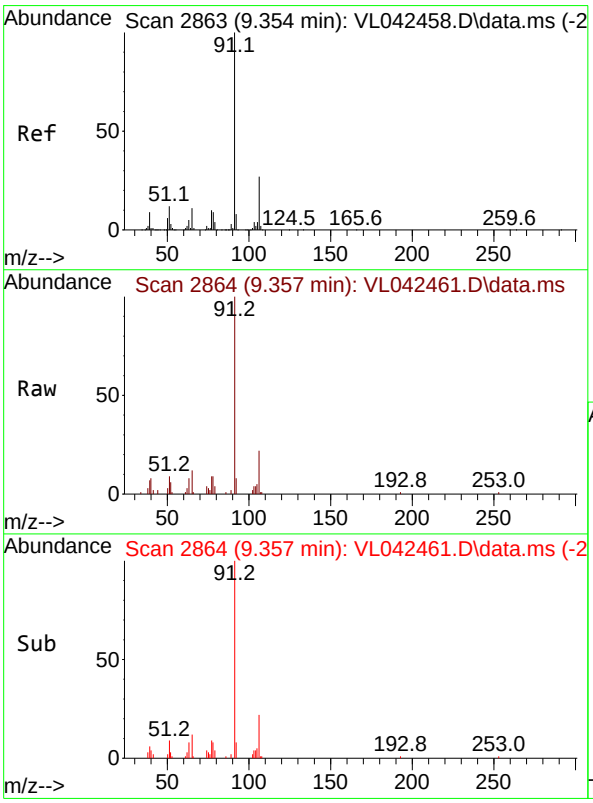
#57
Chlorobenzene
Concen: 0.548 ppbv
RT: 8.924 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042461.D
Acq: 01 May 2025 10:40

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion:112 Resp: 9173

Ion	Ratio	Lower	Upper
112	100		
77	67.1	65.0	97.4
114	35.5	27.5	33.7#

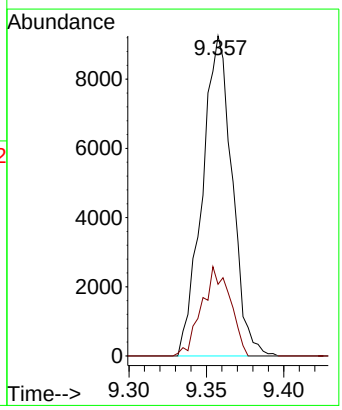


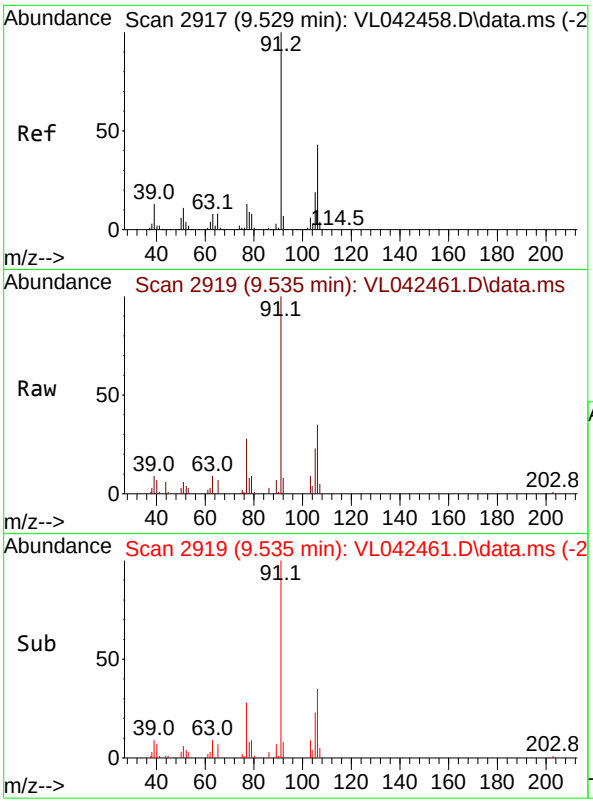


#58
Ethyl Benzene
Concen: 0.446 ppbv
RT: 9.357 min Scan# 2864
Delta R.T. 0.003 min
Lab File: VL042461.D
Acq: 01 May 2025 10:40

Tgt Ion: 91 Resp: 12427

Ion	Ratio	Lower	Upper
91	100		
106	22.4	21.9	32.9



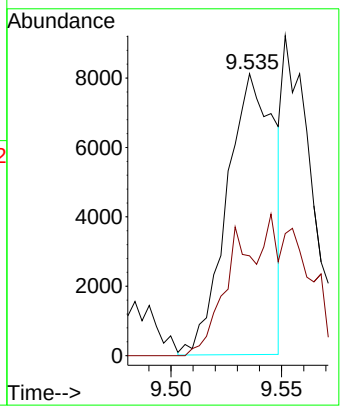


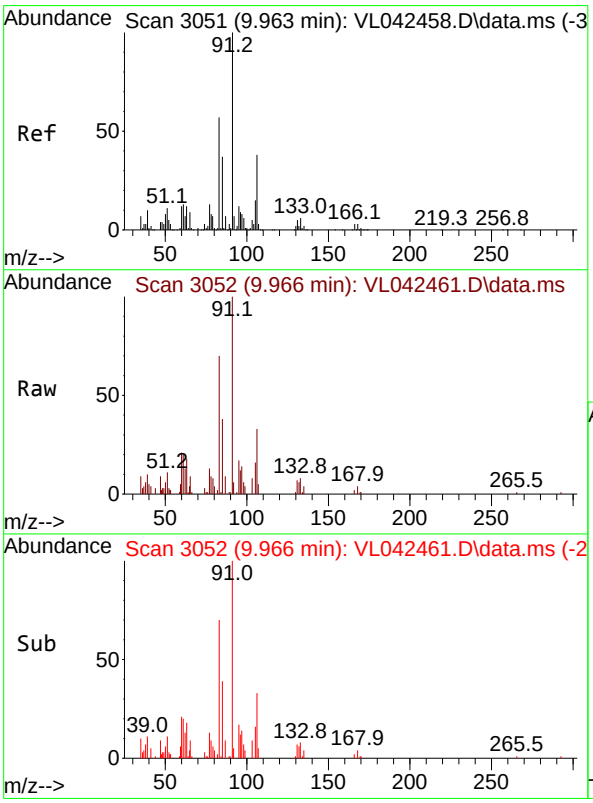
#59
m/p-Xylene
Concen: 0.515 ppbv
RT: 9.535 min Scan# 2
Delta R.T. 0.007 min
Lab File: VL042461.D
Acq: 01 May 2025 10:40

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 91 Resp: 12016

Ion	Ratio	Lower	Upper
91	100		
106	0.0	34.2	51.2#

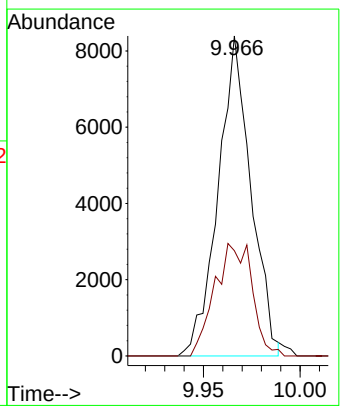


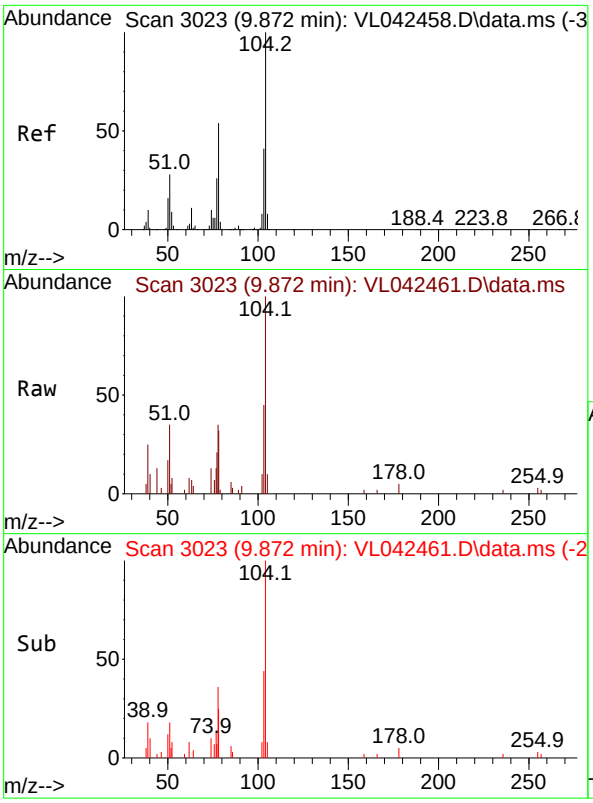


#60
o-Xylene
Concen: 0.424 ppbv
RT: 9.966 min Scan# 3052
Delta R.T. 0.003 min
Lab File: VL042461.D
Acq: 01 May 2025 10:40

Tgt Ion: 91 Resp: 9891

Ion	Ratio	Lower	Upper
91	100		
106	40.0	20.1	60.2



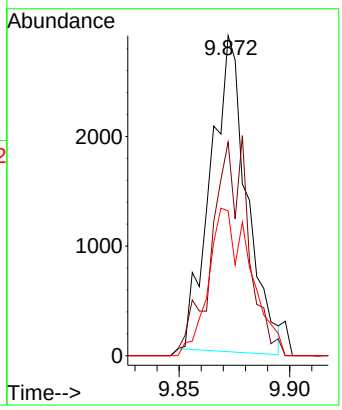


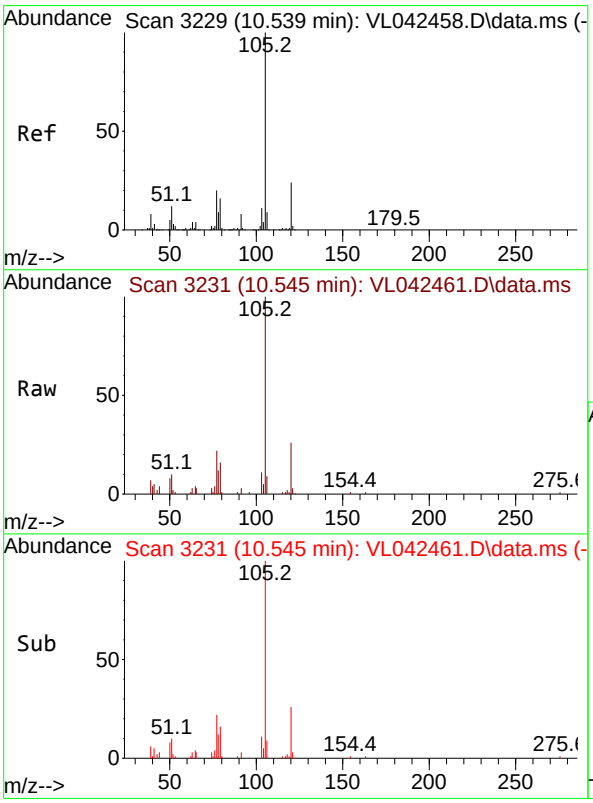
#61
Styrene
Concen: 0.377 ppbv
RT: 9.872 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042461.D
Acq: 01 May 2025 10:40

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion:104 Resp: 3286

Ion	Ratio	Lower	Upper
104	100		
78	68.7	46.9	70.3
103	53.9	36.6	55.0

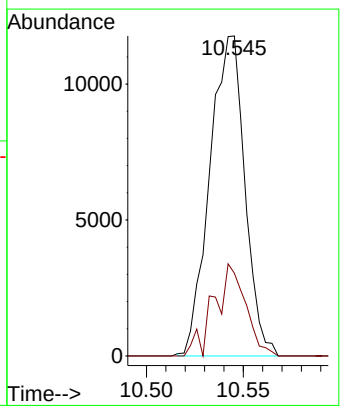


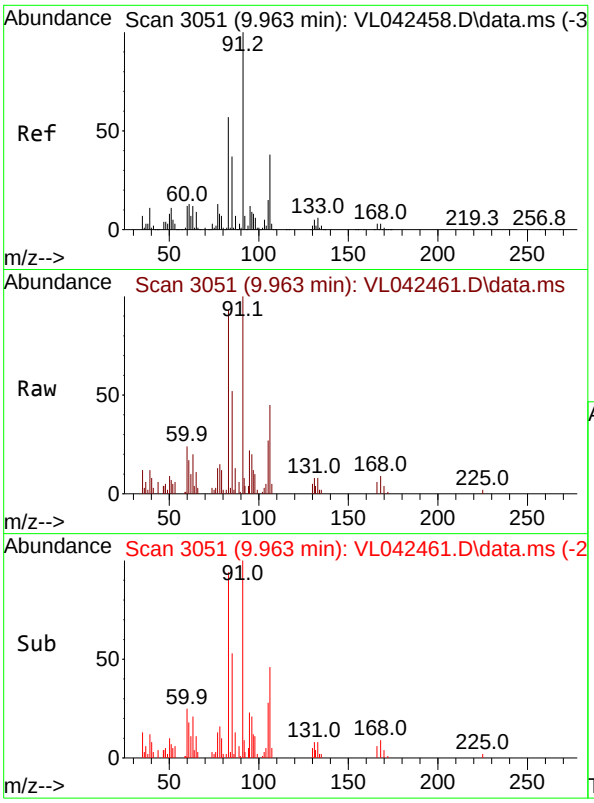


#62
Isopropylbenzene
Concen: 0.440 ppbv
RT: 10.545 min Scan# 3231
Delta R.T. 0.007 min
Lab File: VL042461.D
Acq: 01 May 2025 10:40

Tgt Ion:105 Resp: 14837

Ion	Ratio	Lower	Upper
105	100		
120	26.0	18.8	28.2



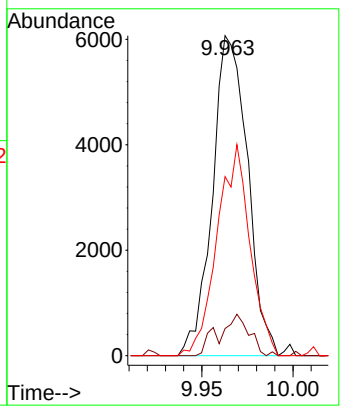


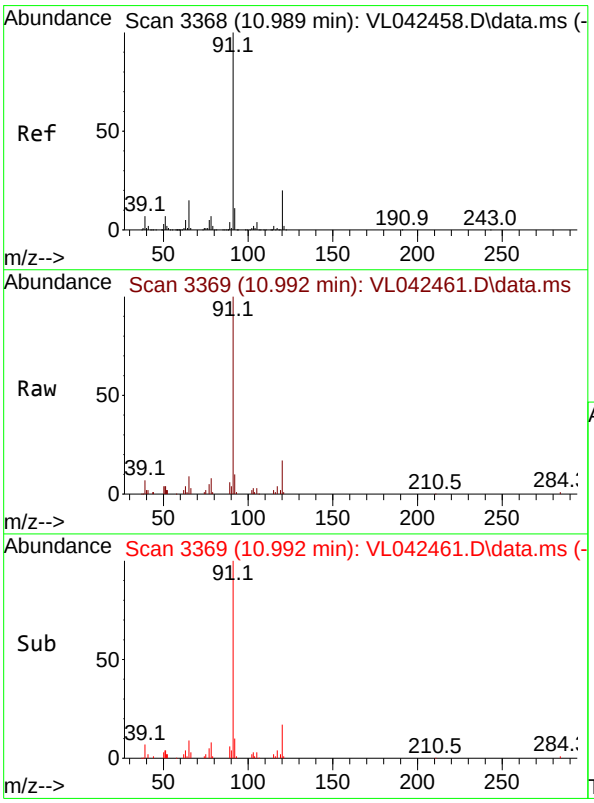
#63
1,1,2,2-Tetrachloroethane
Concen: 0.537 ppbv
RT: 9.963 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042461.D
Acq: 01 May 2025 10:40

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 83 Resp: 8135

Ion	Ratio	Lower	Upper
83	100		
131	11.9	4.7	14.1
85	61.7	32.5	97.4

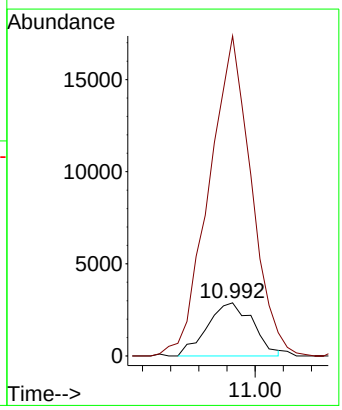


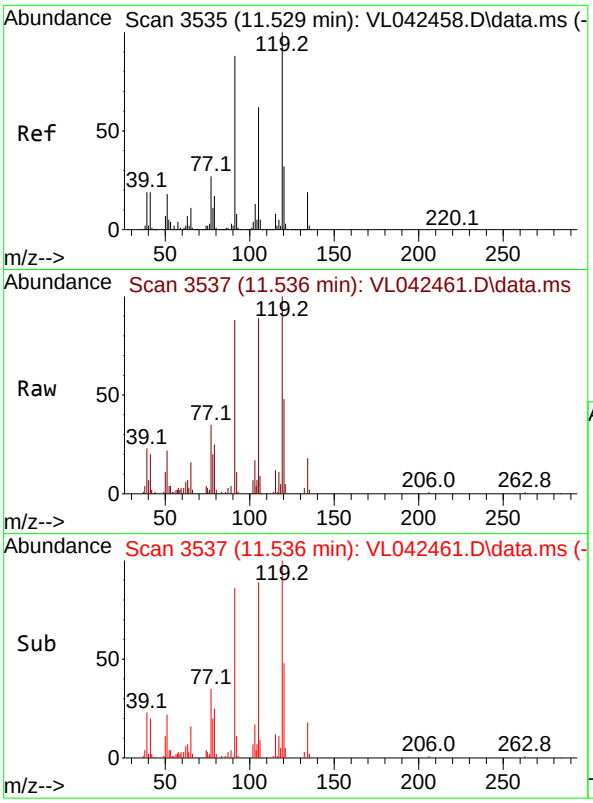


#64
n-propylbenzene
Concen: 0.397 ppbv
RT: 10.992 min Scan# 3369
Delta R.T. 0.003 min
Lab File: VL042461.D
Acq: 01 May 2025 10:40

Tgt Ion:120 Resp: 3259

Ion	Ratio	Lower	Upper
120	100		
91	559.5	408.6	612.8



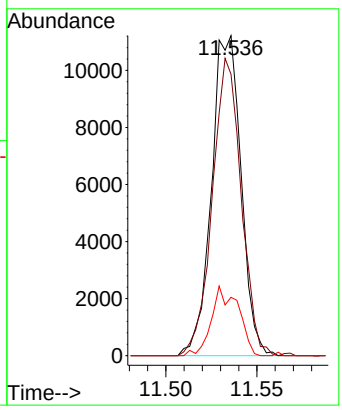


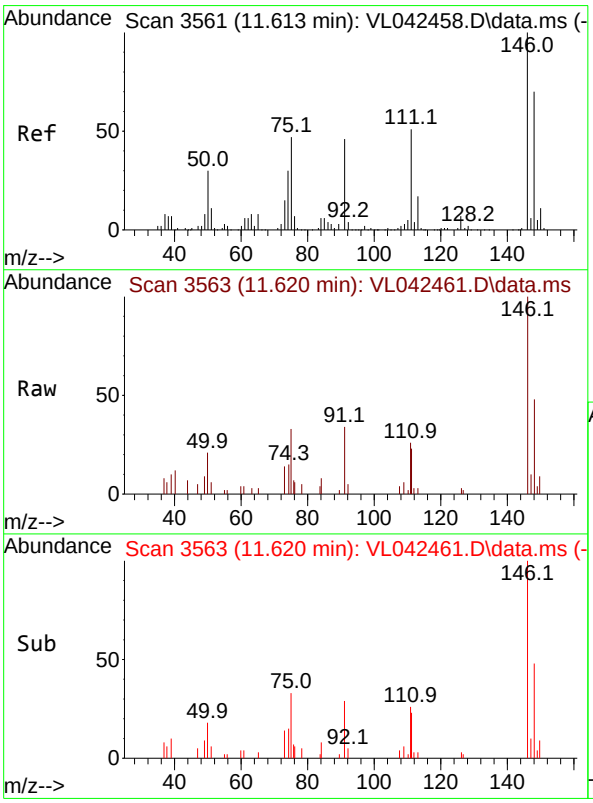
#65
tert-Butylbenzene
Concen: 0.421 ppbv
RT: 11.536 min Scan# 3
Delta R.T. 0.007 min
Lab File: VL042461.D
Acq: 01 May 2025 10:40

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion:119 Resp: 12655

Ion	Ratio	Lower	Upper
119	100		
91	90.6	71.6	107.4
134	19.9	15.0	22.4

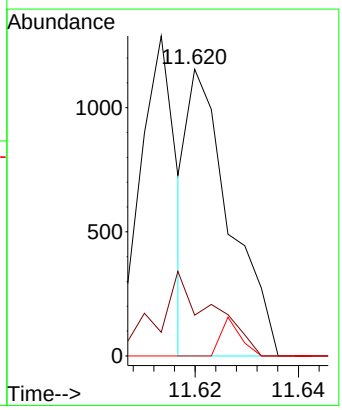


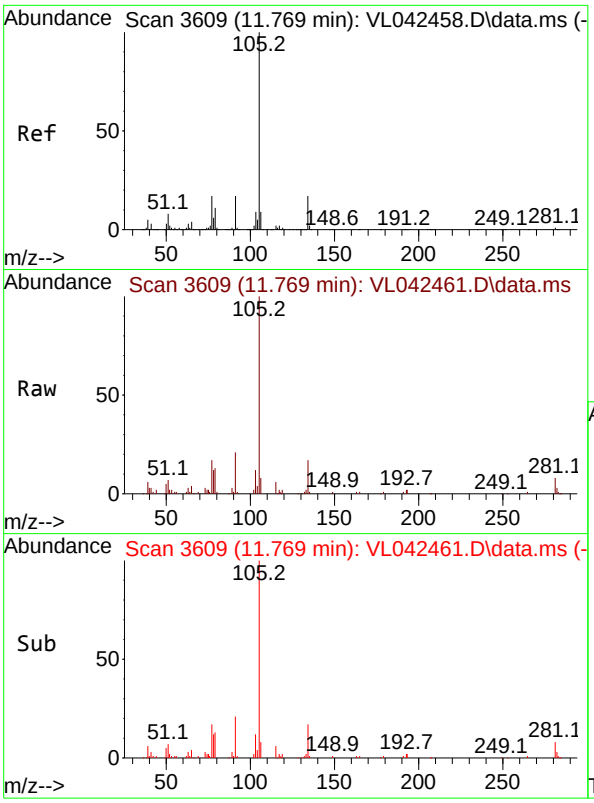


#66
Benzyl Chloride
Concen: 0.187 ppbv
RT: 11.620 min Scan# 3563
Delta R.T. 0.007 min
Lab File: VL042461.D
Acq: 01 May 2025 10:40

Tgt Ion: 91 Resp: 651

Ion	Ratio	Lower	Upper
91	100		
126	38.4	13.3	19.9#
128	0.0	4.2	6.4#



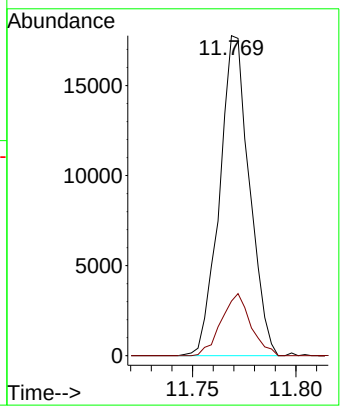


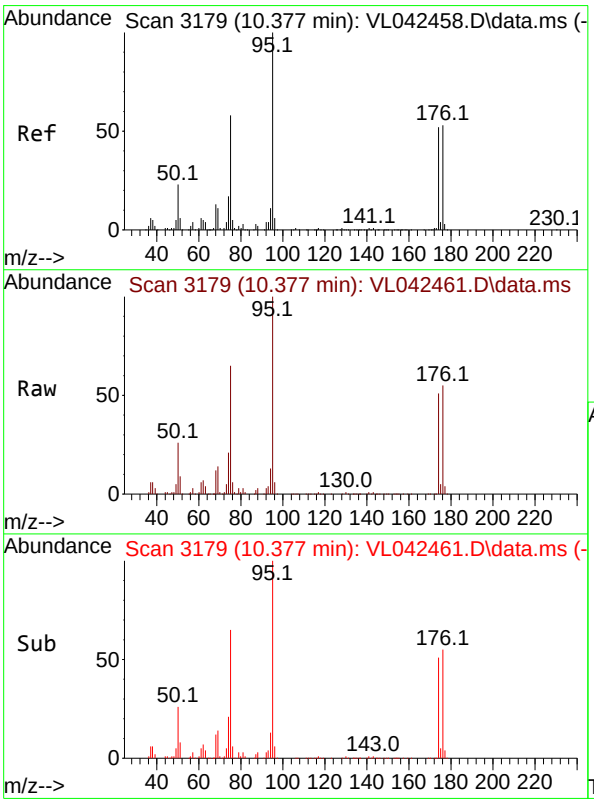
#67
sec-Butylbenzene
Concen: 0.419 ppbv
RT: 11.769 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042461.D
Acq: 01 May 2025 10:40

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion:105 Resp: 17905

Ion	Ratio	Lower	Upper
105	100		
134	19.1	14.1	21.1

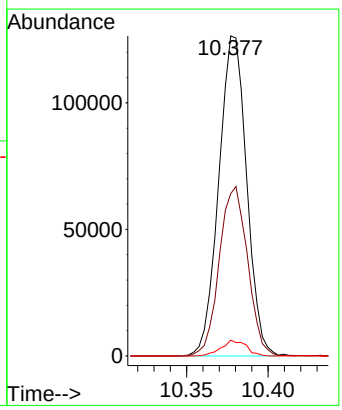


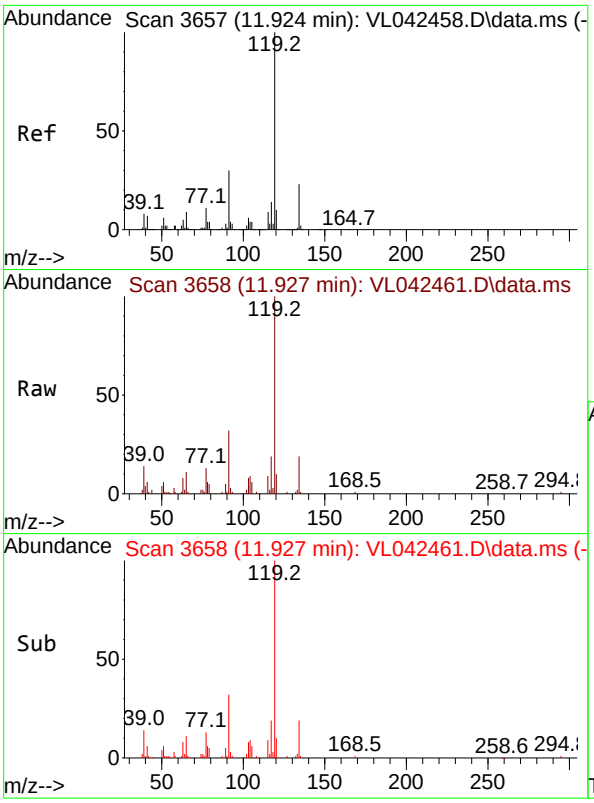


#68
1-Bromo-4-Fluorobenzene
Concen: 9.728 ppbv
RT: 10.377 min Scan# 3179
Delta R.T. 0.000 min
Lab File: VL042461.D
Acq: 01 May 2025 10:40

Tgt Ion: 95 Resp: 150277

Ion	Ratio	Lower	Upper
95	100		
174	53.8	42.7	64.1
175	4.4	3.6	5.4



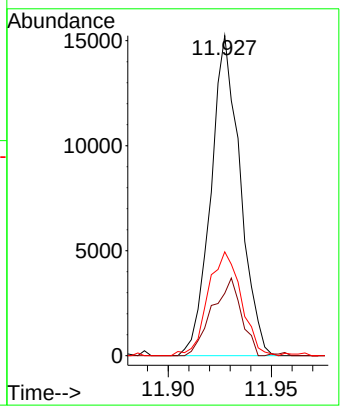


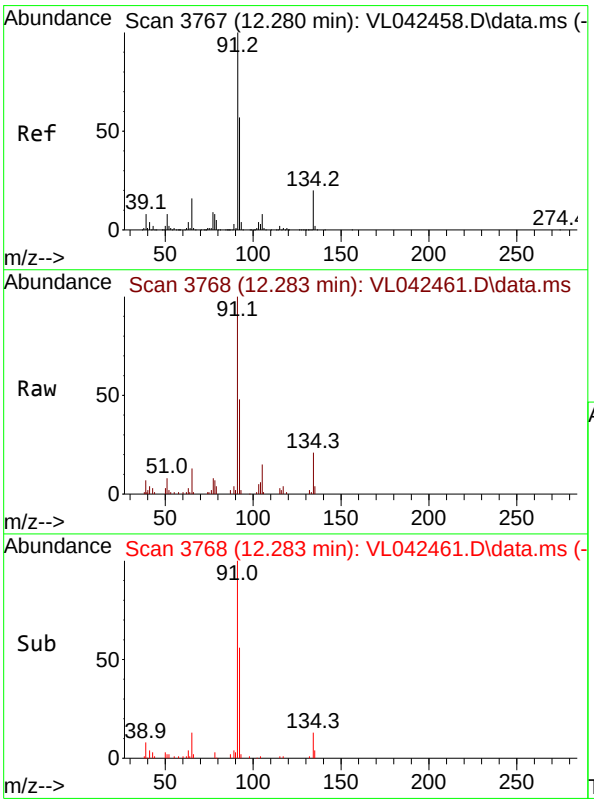
#69
p-Isopropyltoluene
Concen: 0.417 ppbv
RT: 11.927 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042461.D
Acq: 01 May 2025 10:40

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion:119 Resp: 15036

Ion	Ratio	Lower	Upper
119	100		
134	24.5	19.0	28.4
91	37.4	25.5	38.3

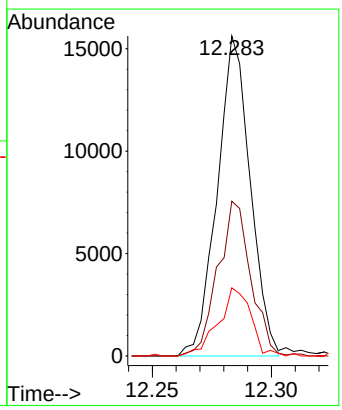


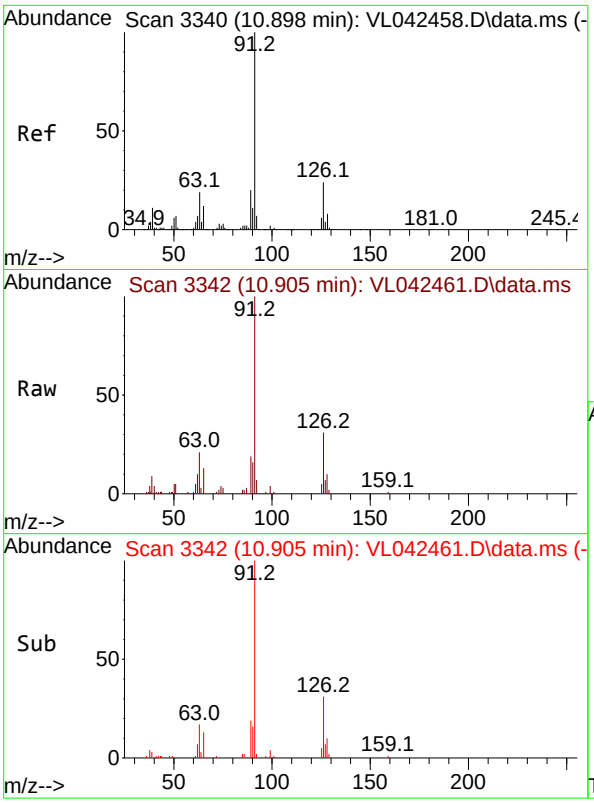


#70
n-Butylbenzene
Concen: 0.403 ppbv
RT: 12.283 min Scan# 3768
Delta R.T. 0.003 min
Lab File: VL042461.D
Acq: 01 May 2025 10:40

Tgt Ion: 91 Resp: 15016

Ion	Ratio	Lower	Upper
91	100		
92	48.4	44.0	66.0
134	21.6	16.8	25.2



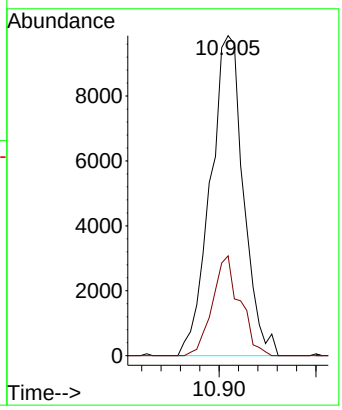


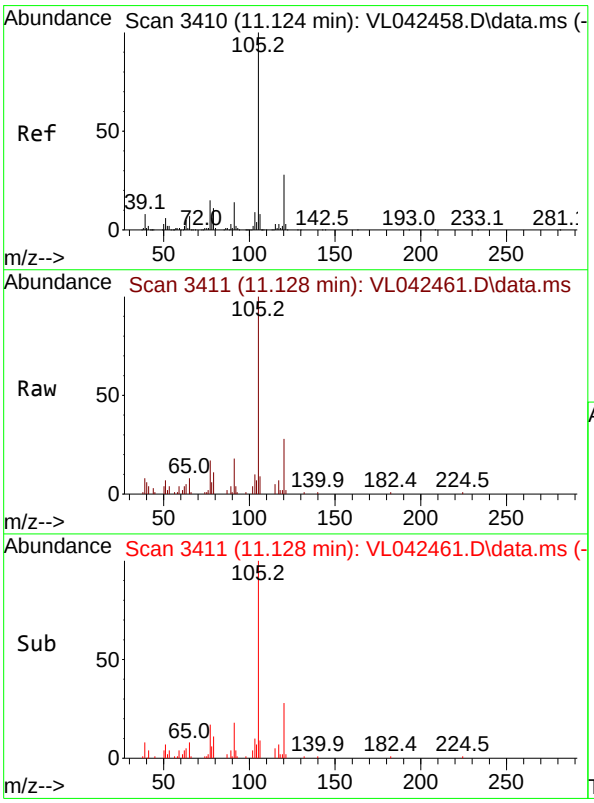
#71
2-Chlorotoluene
Concen: 0.443 ppbv
RT: 10.905 min Scan# 3
Delta R.T. 0.007 min
Lab File: VL042461.D
Acq: 01 May 2025 10:40

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 91 Resp: 11702

Ion	Ratio	Lower	Upper
91	100		
126	26.0	10.6	42.2

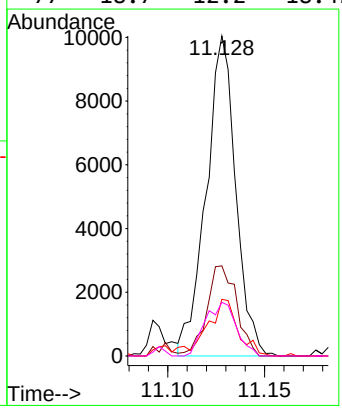


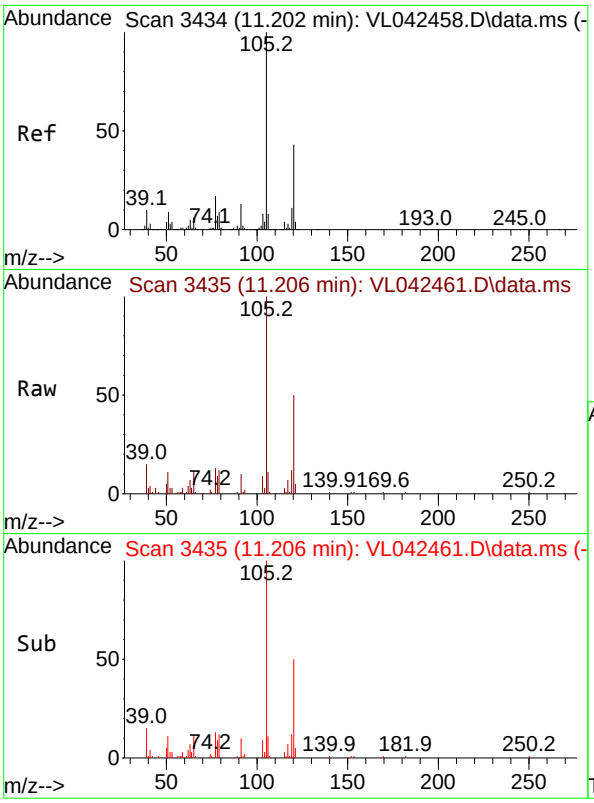


#72
4-Ethyltoluene
Concen: 0.387 ppbv
RT: 11.128 min Scan# 3411
Delta R.T. 0.003 min
Lab File: VL042461.D
Acq: 01 May 2025 10:40

Tgt Ion:105 Resp: 10671

Ion	Ratio	Lower	Upper
105	100		
120	30.2	22.0	33.0
91	20.6	11.2	16.8#
77	18.7	12.2	18.4#



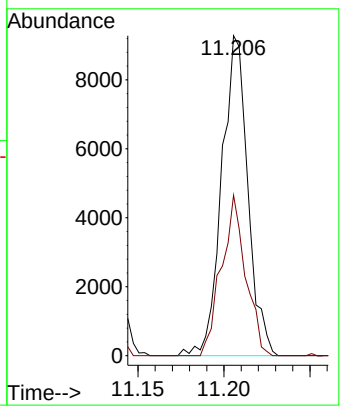


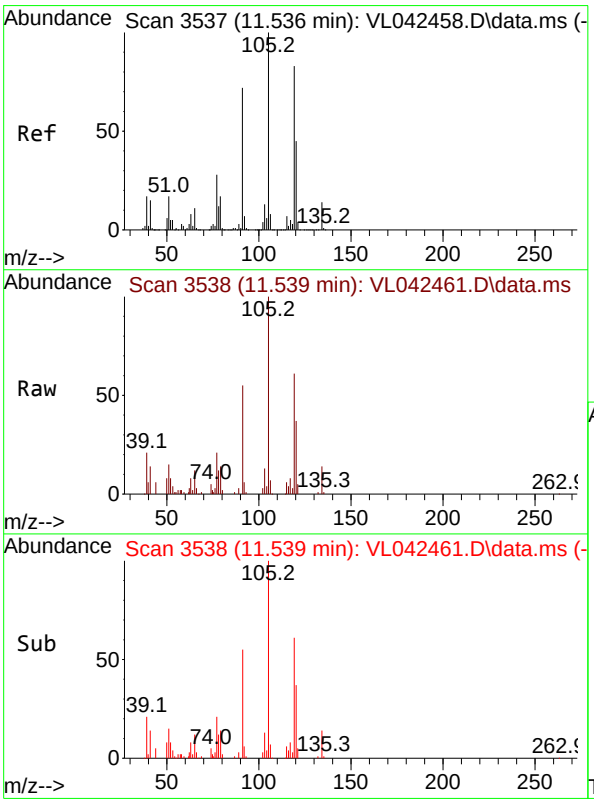
#73
1,3,5-Trimethylbenzene
Concen: 0.405 ppbv
RT: 11.206 min Scan# 34
Delta R.T. 0.003 min
Lab File: VL042461.D
Acq: 01 May 2025 10:40

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion:105 Resp: 9808

Ion	Ratio	Lower	Upper
105	100		
120	50.2	34.4	51.6

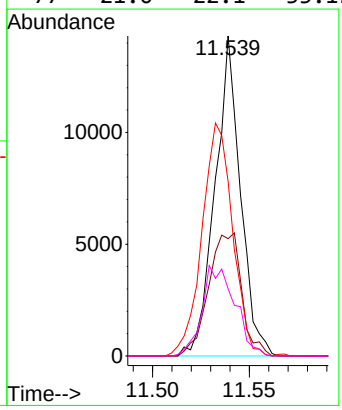


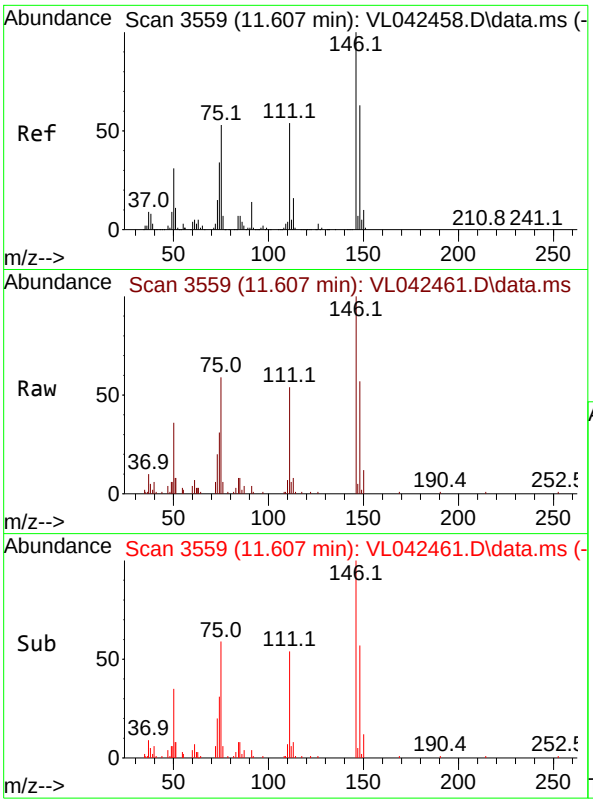


#74
1,2,4-Trimethylbenzene
Concen: 0.445 ppbv
RT: 11.539 min Scan# 3538
Delta R.T. 0.003 min
Lab File: VL042461.D
Acq: 01 May 2025 10:40

Tgt Ion:105 Resp: 13060

Ion	Ratio	Lower	Upper
105	100		
120	36.7	36.1	54.1
91	54.1	57.6	86.4#
77	21.0	22.1	33.1#



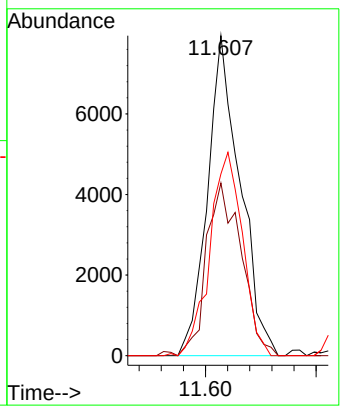


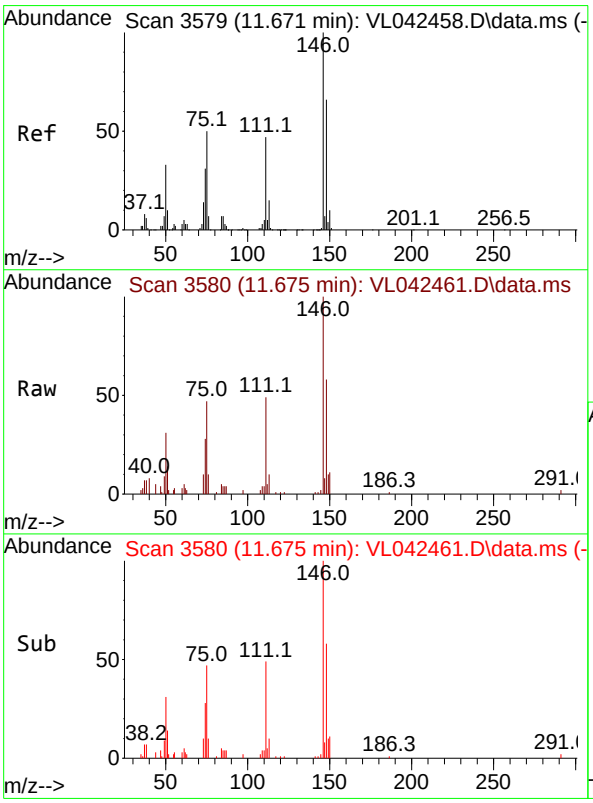
#75
1,3-Dichlorobenzene
Concen: 0.498 ppbv
RT: 11.607 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042461.D
Acq: 01 May 2025 10:40

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion:146 Resp: 8127

Ion	Ratio	Lower	Upper
146	100		
111	58.0	26.1	78.3
148	63.9	32.0	96.0

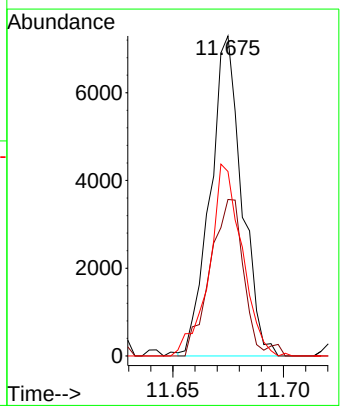


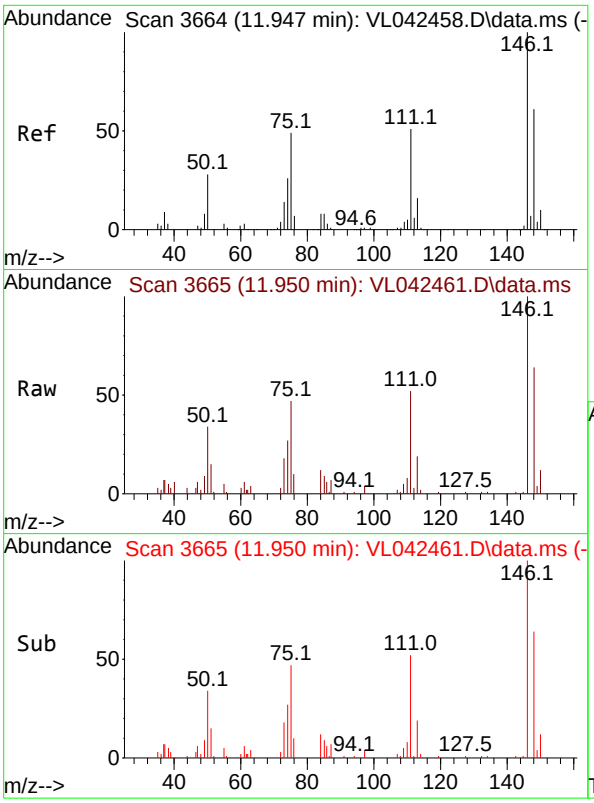


#76
1,4-Dichlorobenzene
Concen: 0.469 ppbv
RT: 11.675 min Scan# 3580
Delta R.T. 0.003 min
Lab File: VL042461.D
Acq: 01 May 2025 10:40

Tgt Ion:146 Resp: 7238

Ion	Ratio	Lower	Upper
146	100		
111	52.4	24.4	73.2
148	61.9	32.0	96.2



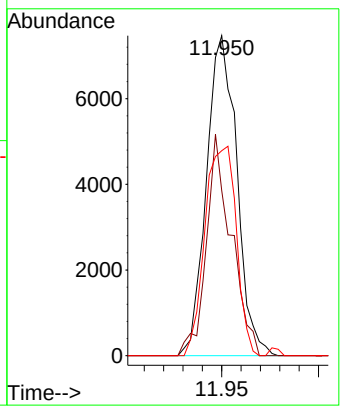


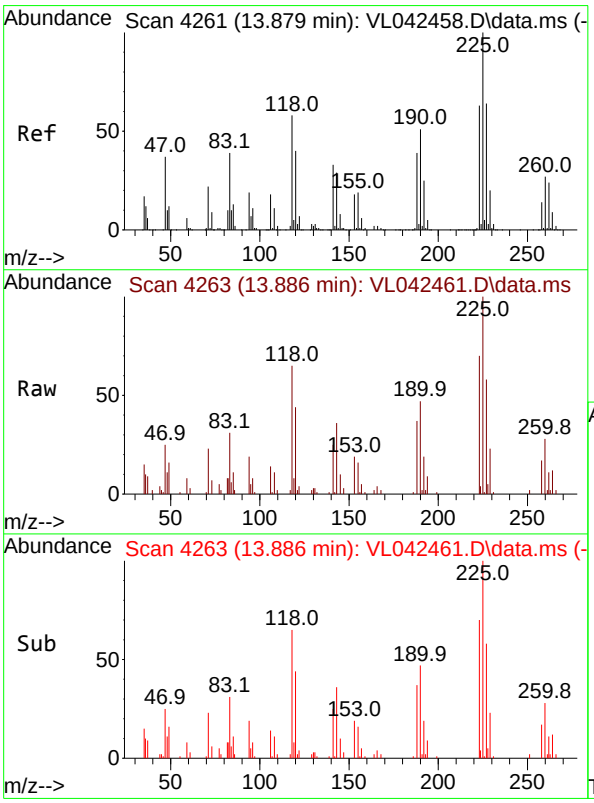
#77
1,2-Dichlorobenzene
Concen: 0.509 ppbv
RT: 11.950 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042461.D
Acq: 01 May 2025 10:40

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion:146 Resp: 8141

Ion	Ratio	Lower	Upper
146	100		
111	56.9	26.5	79.5
148	68.3	31.5	94.5

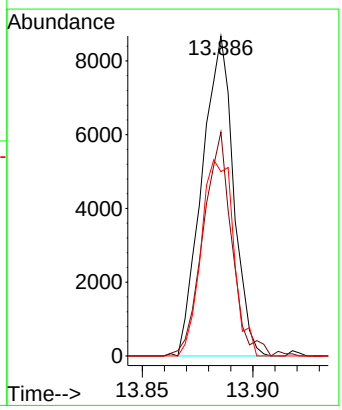


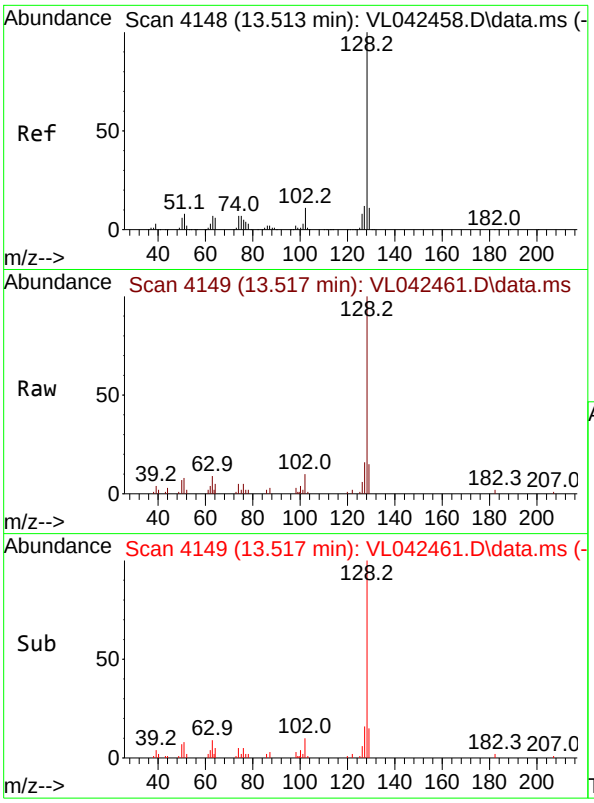


#78
Hexachloro-1,3-Butadiene
Concen: 0.537 ppbv
RT: 13.886 min Scan# 4263
Delta R.T. 0.007 min
Lab File: VL042461.D
Acq: 01 May 2025 10:40

Tgt Ion:225 Resp: 8565

Ion	Ratio	Lower	Upper
225	100		
223	64.1	50.2	75.4
227	63.1	51.2	76.8



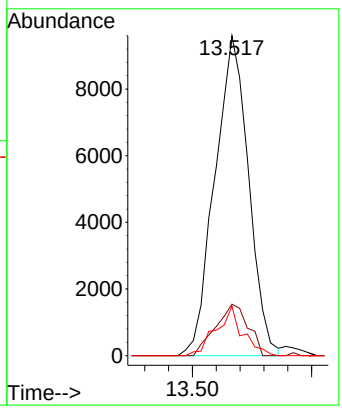


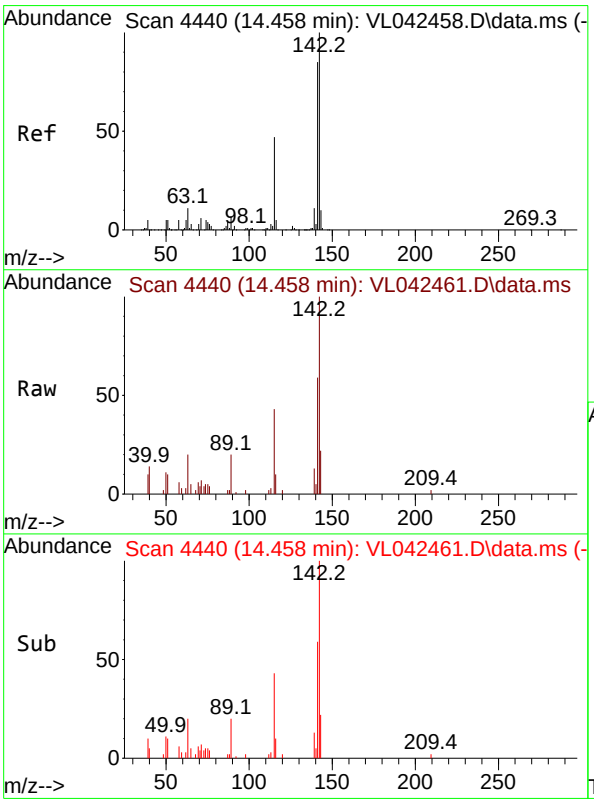
#79
Naphthalene
Concen: 0.384 ppbv
RT: 13.517 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL042461.D
Acq: 01 May 2025 10:40

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion:128 Resp: 9436

Ion	Ratio	Lower	Upper
128	100		
127	16.1	9.7	14.5#
129	15.5	8.6	13.0#

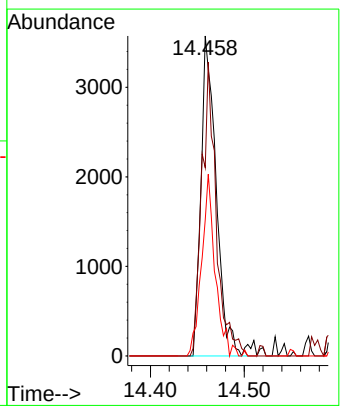


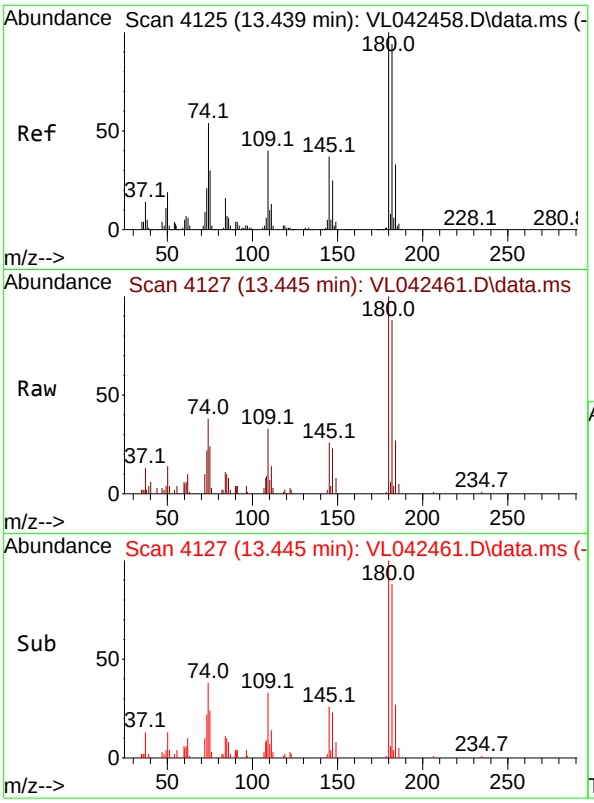


#80
Naphthalene,2-methyl-
Concen: 0.226 ppbv
RT: 14.458 min Scan# 4440
Delta R.T. 0.000 min
Lab File: VL042461.D
Acq: 01 May 2025 10:40

Tgt Ion:142 Resp: 4153

Ion	Ratio	Lower	Upper
142	100		
141	84.6	67.4	101.0
115	49.4	36.9	55.3



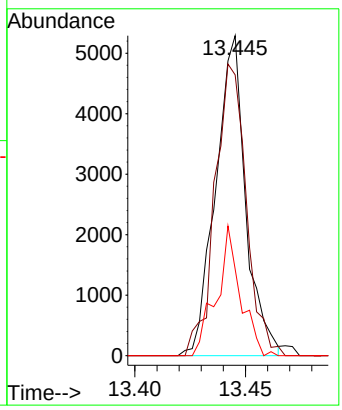


#81
1,2,4-Trichlorobenzene
Concen: 0.379 ppbv
RT: 13.445 min Scan# 4
Delta R.T. 0.007 min
Lab File: VL042461.D
Acq: 01 May 2025 10:40

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion:180 Resp: 4992

Ion	Ratio	Lower	Upper
180	100		
182	94.8	74.6	111.8
184	32.3	24.9	37.3



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050125\
Data File : VL042462.D
Acq On : 01 May 2025 11:12
Operator : SY/MD
Sample : VSTDICC0.1
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Quant Time: May 02 01:43:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri May 02 01:37:48 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.787	49	65449	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.959	114	186907	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.882	117	157618	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.377	95	143644	9.830	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 98.300%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.499	85	1062	0.098	ppbv		97
3) Chlorodifluoromethane	1.476	51	1315	0.115	ppbv		97
4) Chloromethane	1.531	50	715	0.158	ppbv	#	83
5) Vinyl Chloride	1.580	62	631	0.138	ppbv	#	53
6) Bromomethane	1.667	94	227	0.105	ppbv	#	46
7) Chloroethane	1.703	64	176	0.105	ppbv	#	82
8) Dichlorotetrafluoroethane	1.554	85	1241	0.139	ppbv		99
9) Propene	1.683	41	270	0.072	ppbv		85
10) Heptane	4.982	43	268	0.028	ppbv	#	26
11) Trichlorofluoromethane	1.878	101	1407	0.146	ppbv		95
12) 1,1,2-Trichlorotrifluo...	2.140	101	1045	0.131	ppbv		94
13) Ethanol	1.722	45	281	0.370	ppbv	#	37
14) Bromoethene	1.780	108	409	0.139	ppbv	#	62
15) Acetone	1.839	43	2646	0.221	ppbv		95
16) 1,3-Butadiene	1.609	39	1170	0.222	ppbv	#	80
17) tert-Butyl alcohol	2.043	59	1429	0.136	ppbv	#	45
18) 1,1-Dichloroethene	2.033	96	601	0.161	ppbv	#	53
19) Isopropyl Alcohol	1.891	45	1127	0.170	ppbv	#	90
20) Methylene Chloride	2.059	84	1233	0.343	ppbv	#	63
21) Allyl Chloride	2.098	41	1159	0.151	ppbv	#	66
22) trans-1,2-Dichloroethene	2.344	96	544	0.125	ppbv	#	88
23) Vinyl Acetate	2.460	43	1870	0.168	ppbv	#	90
24) 1,1-Dichloroethane	2.412	63	875	0.099	ppbv	#	90
25) Ethyl Acetate	2.845	43	1182	0.062	ppbv	#	70
26) Hexane	2.832	57	355	0.043	ppbv	#	1
27) Carbon Disulfide	2.149	76	1407	0.145	ppbv	#	1
28) Methyl tert-Butyl Ether	2.444	73	704	0.141	ppbv	#	90
29) Chloroform	2.849	83	1748	0.112	ppbv		98
30) Cyclohexane	3.862	84	257	0.037	ppbv	#	1
31) cis-1,2-Dichloroethene	2.719	61	1193	0.123	ppbv	#	69
32) 1,1,1-Trichloroethane	3.370	97	978	0.058	ppbv	#	24
34) 2-Butanone	2.554	43	337	0.025	ppbv	#	55
35) Carbon Tetrachloride	3.758	117	1493	0.092	ppbv	#	55
36) Benzene	3.651	78	1494	0.085	ppbv	#	80
37) 1,2-Dichloroethane	3.227	62	499	0.037	ppbv	#	84
38) Trichloroethene	4.551	130	478	0.071	ppbv	#	37
39) 1,2-Dichloropropane	3.956	63	53030	8.026	ppbv	#	21
40) 1,4-Dioxane	4.616	88	59	0.019	ppbv	#	100
41) Tetrahydrofuran	3.069	42	191	0.030	ppbv	#	34
42) Bromodichloromethane	4.493	83	1546	0.093	ppbv	#	70
43) Methyl Methacrylate	4.894	69	179	0.027	ppbv	#	1
44) 2,2,4-Trimethylpentane	4.635	57	1699	0.060	ppbv	#	40
45) t-1,3-Dichloropropene	6.419	75	137	0.016	ppbv	#	42

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050125\
Data File : VL042462.D
Acq On : 01 May 2025 11:12
Operator : SY/MD
Sample : VSTDICC0.1
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Quant Time: May 02 01:43:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri May 02 01:37:48 2025
Response via : Initial Calibration

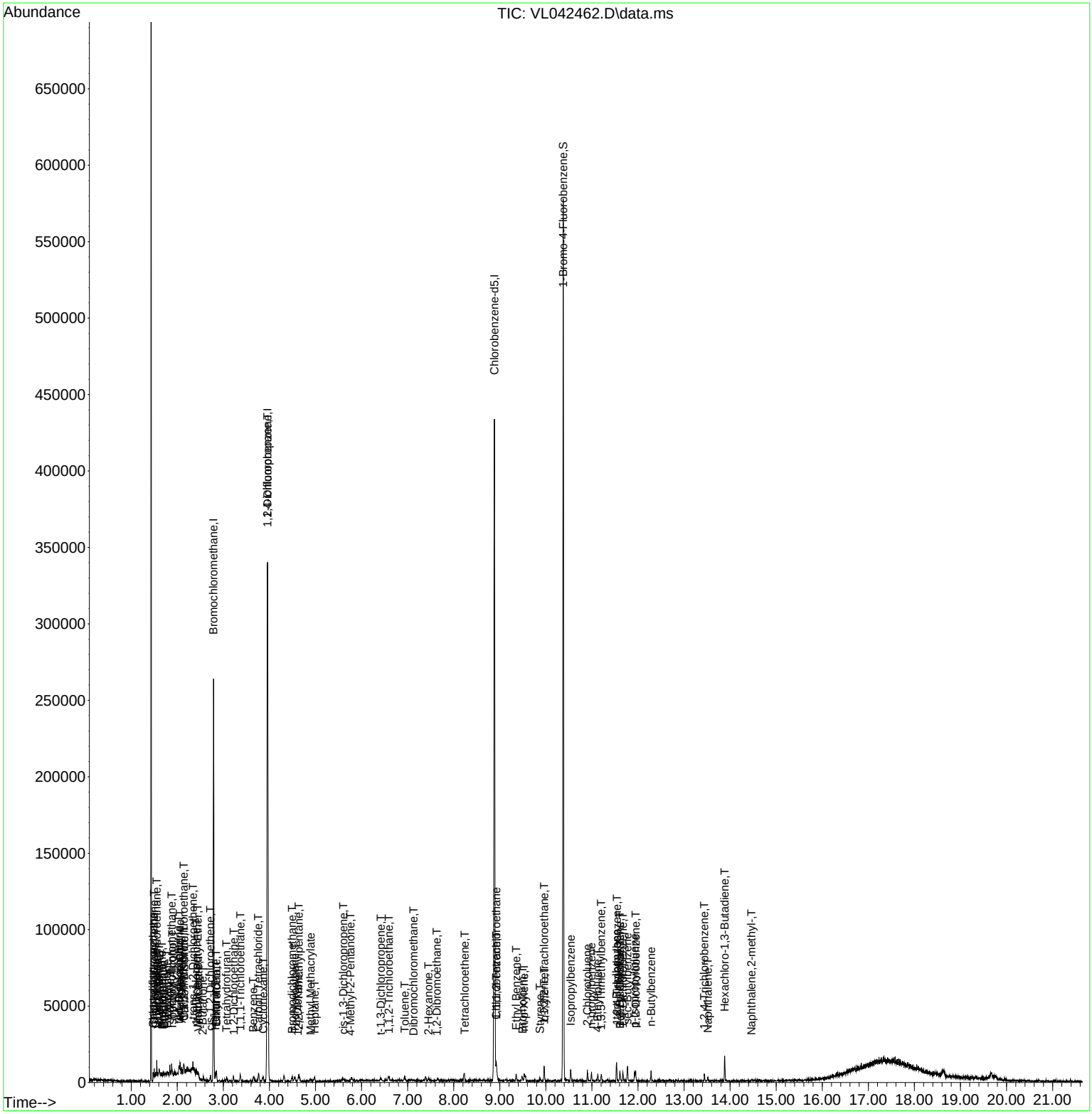
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) cis-1,3-Dichloropropene	5.603	75	334	0.033	ppbv	#	67
47) 1,1,2-Trichloroethane	6.590	97	604	0.083	ppbv	#	61
48) Dibromochloromethane	7.127	129	75	0.006	ppbv		100
49) Bromoform	9.493	173	191	0.019	ppbv	#	1
50) 4-Methyl-2-Pentanone	5.758	43	150	0.009	ppbv	#	38
51) 2-Hexanone	7.451	43	738	0.054	ppbv	#	83
52) Tetrachloroethene	8.241	164	143	0.021	ppbv	#	50
53) Toluene	6.940	91	572	0.031	ppbv	#	1
54) 1,2-Dibromoethane	7.632	107	57	0.005	ppbv		99
56) 1,1,1,2-Tetrachloroethane	8.927	131	652	0.070	ppbv	#	15
57) Chlorobenzene	8.927	112	1103	0.070	ppbv	#	65
58) Ethyl Benzene	9.357	91	1206	0.046	ppbv	#	52
59) m/p-Xylene	9.526	91	1427	0.065	ppbv	#	33
60) o-Xylene	9.963	91	1114	0.050	ppbv	#	46
61) Styrene	9.872	104	215	0.026	ppbv	#	1
62) Isopropylbenzene	10.539	105	2821	0.088	ppbv	#	83
63) 1,1,2,2-Tetrachloroethane	9.966	83	1490	0.104	ppbv	#	75
64) n-propylbenzene	10.989	120	452	0.058	ppbv		92
65) tert-Butylbenzene	11.532	119	1762	0.062	ppbv	#	69
66) Benzyl Chloride	11.610	91	167	0.051	ppbv	#	67
67) sec-Butylbenzene	11.769	105	2510	0.062	ppbv		97
69) p-Isopropyltoluene	11.924	119	2112	0.062	ppbv	#	83
70) n-Butylbenzene	12.283	91	2098	0.060	ppbv	#	92
71) 2-Chlorotoluene	10.901	91	2065	0.083	ppbv		87
72) 4-Ethyltoluene	11.121	105	813	0.031	ppbv	#	56
73) 1,3,5-Trimethylbenzene	11.202	105	1853	0.081	ppbv		96
74) 1,2,4-Trimethylbenzene	11.542	105	1982	0.071	ppbv	#	64
75) 1,3-Dichlorobenzene	11.607	146	709	0.046	ppbv	#	11
76) 1,4-Dichlorobenzene	11.672	146	546	0.037	ppbv	#	1
77) 1,2-Dichlorobenzene	11.950	146	1226	0.081	ppbv		91
78) Hexachloro-1,3-Butadiene	13.879	225	1683	0.112	ppbv		97
79) Naphthalene	13.517	128	601	0.026	ppbv	#	95
80) Naphthalene,2-methyl-	14.465	142	371	0.021	ppbv	#	81
81) 1,2,4-Trichlorobenzene	13.439	180	652	0.052	ppbv	#	91

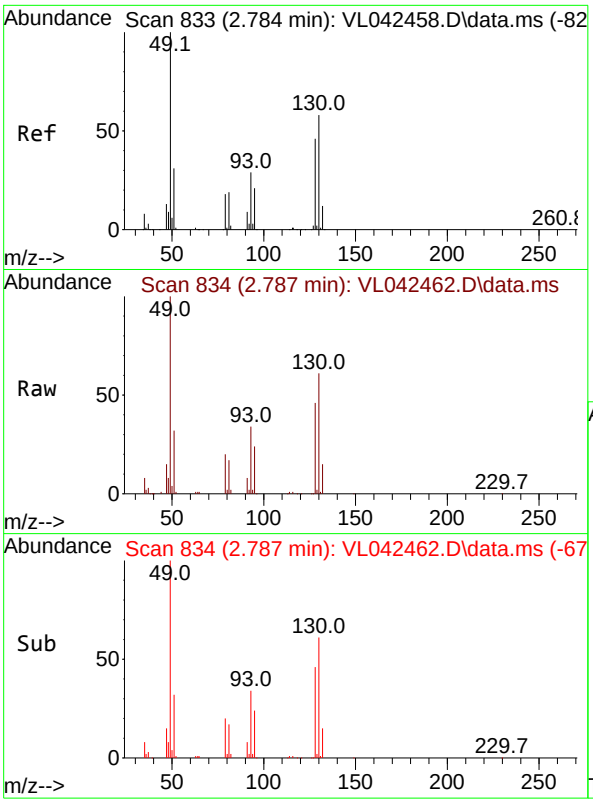
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050125\
Data File : VL042462.D
Acq On : 01 May 2025 11:12
Operator : SY/MD
Sample : VSTDICC0.1
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Quant Time: May 02 01:43:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri May 02 01:37:48 2025
Response via : Initial Calibration



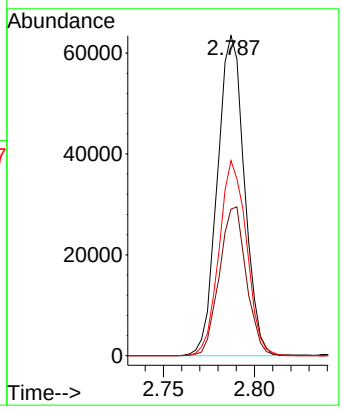


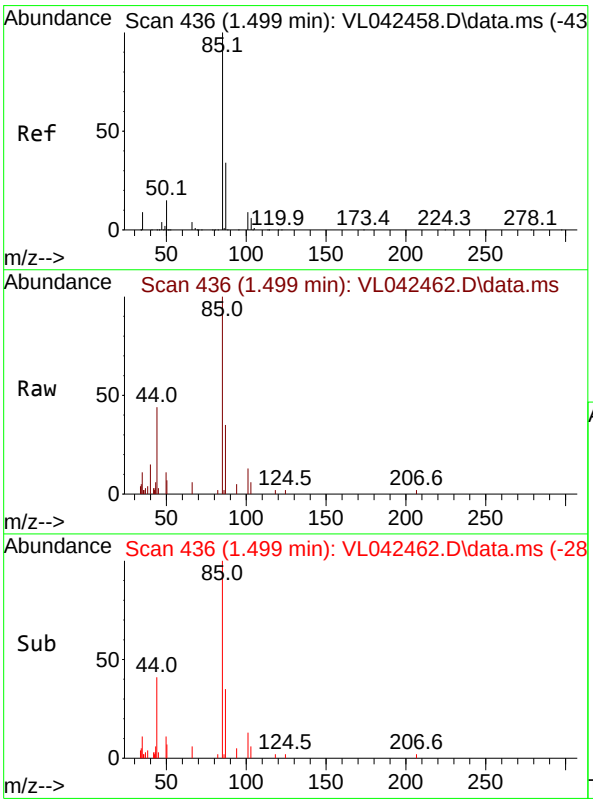
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042462.D
Acq: 01 May 2025 11:12

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion: 49 Resp: 65449

Ion	Ratio	Lower	Upper
49	100		
128	46.4	23.3	69.9
130	61.9	29.5	88.6

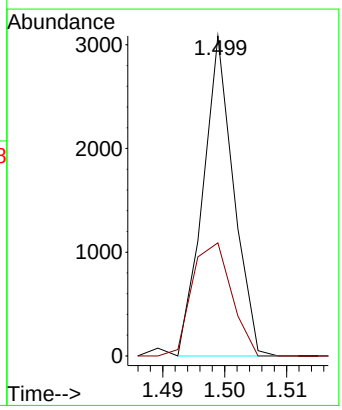


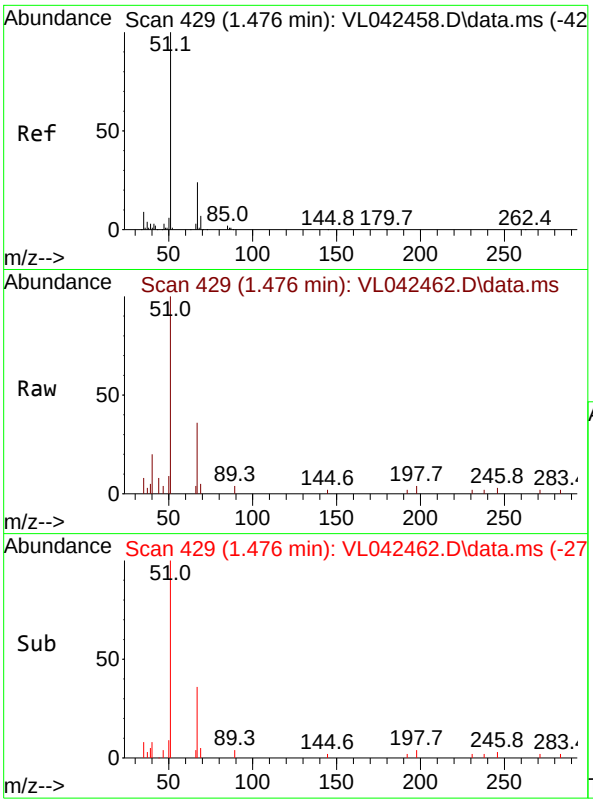


#2
Dichlorodifluoromethane
Concen: 0.098 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.000 min
Lab File: VL042462.D
Acq: 01 May 2025 11:12

Tgt Ion: 85 Resp: 1062

Ion	Ratio	Lower	Upper
85	100		
87	35.4	26.9	40.3



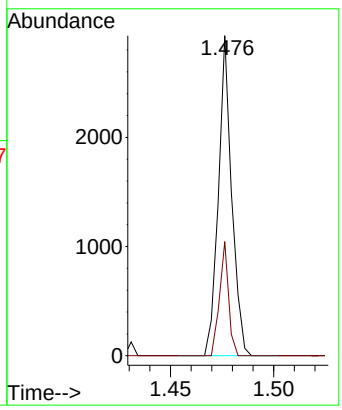


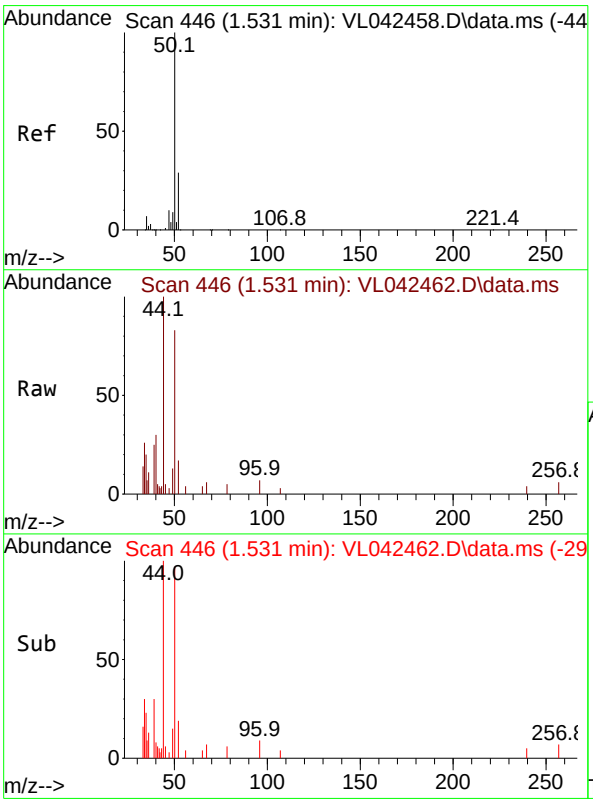
#3
Chlorodifluoromethane
Concen: 0.115 ppbv
RT: 1.476 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042462.D
Acq: 01 May 2025 11:12

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion: 51 Resp: 1315

Ion	Ratio	Lower	Upper
51	100		
67	24.3	18.4	27.6

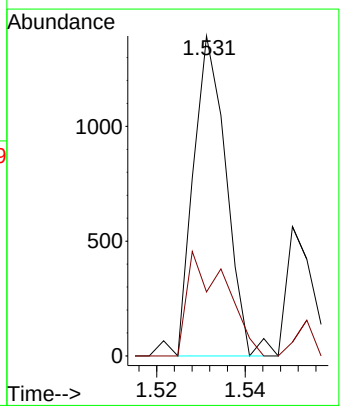


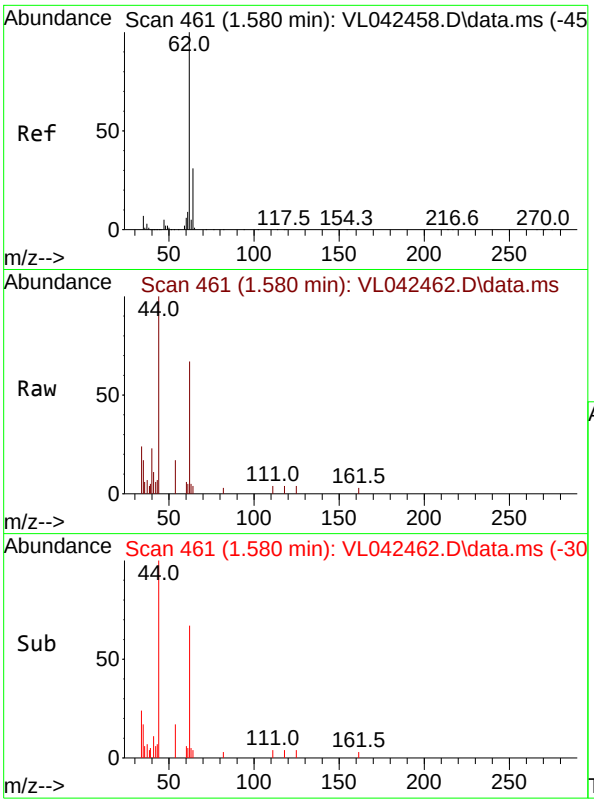


#4
Chloromethane
Concen: 0.158 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL042462.D
Acq: 01 May 2025 11:12

Tgt Ion: 50 Resp: 715

Ion	Ratio	Lower	Upper
50	100		
52	20.0	23.5	35.3#



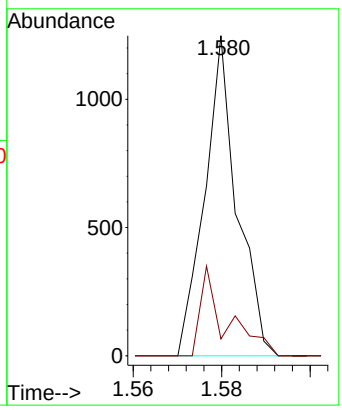


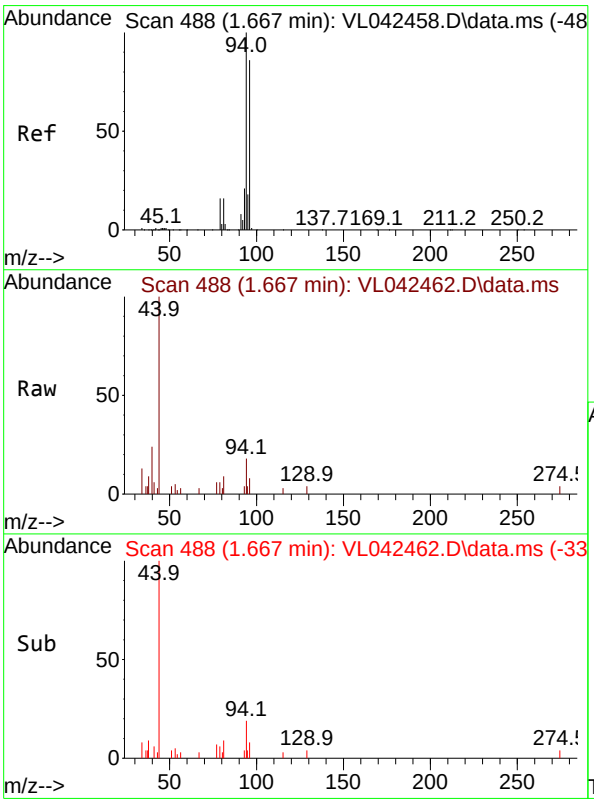
#5
Vinyl Chloride
Concen: 0.138 ppbv
RT: 1.580 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042462.D
Acq: 01 May 2025 11:12

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion: 62 Resp: 631

Ion	Ratio	Lower	Upper
62	100		
64	5.3	24.9	37.3#

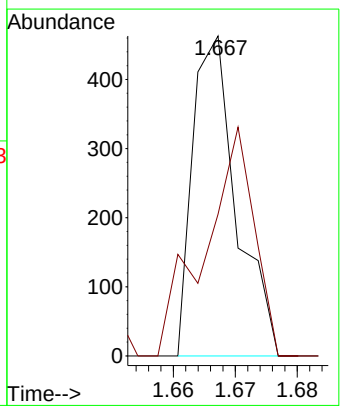


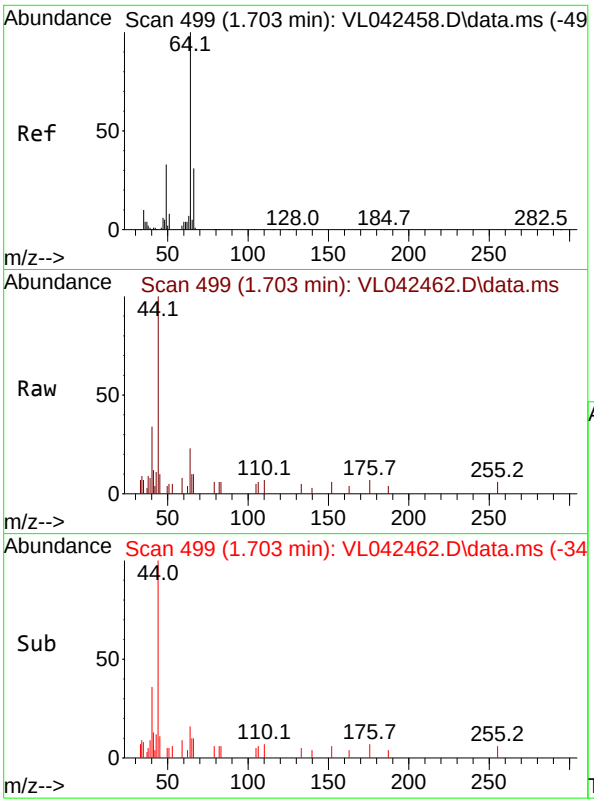


#6
Bromomethane
Concen: 0.105 ppbv
RT: 1.667 min Scan# 488
Delta R.T. 0.000 min
Lab File: VL042462.D
Acq: 01 May 2025 11:12

Tgt Ion: 94 Resp: 227

Ion	Ratio	Lower	Upper
94	100		
96	36.5	68.8	103.2#



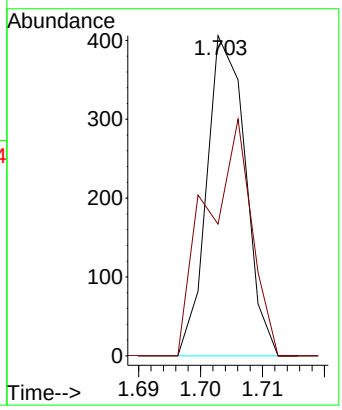


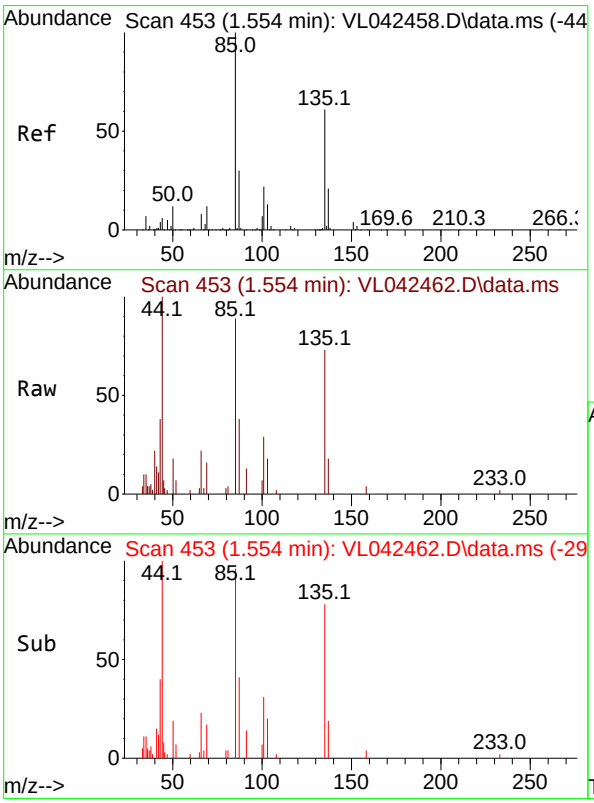
#7
Chloroethane
Concen: 0.105 ppbv
RT: 1.703 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042462.D
Acq: 01 May 2025 11:12

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion: 64 Resp: 176

Ion	Ratio	Lower	Upper
64	100		
66	41.1	25.0	37.4#

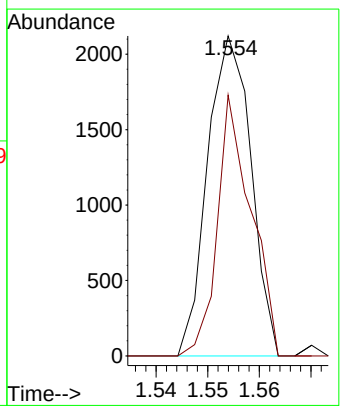


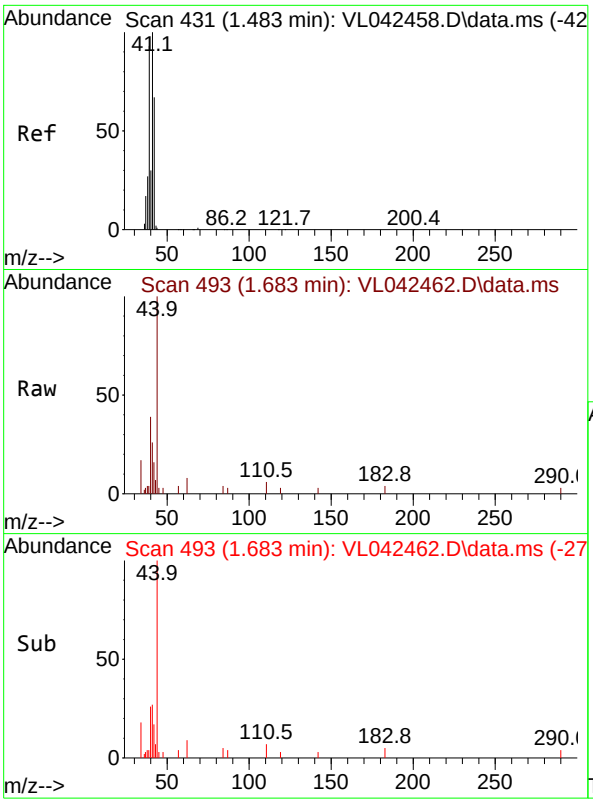


#8
Dichlorotetrafluoroethane
Concen: 0.139 ppbv
RT: 1.554 min Scan# 453
Delta R.T. 0.000 min
Lab File: VL042462.D
Acq: 01 May 2025 11:12

Tgt Ion: 85 Resp: 1241

Ion	Ratio	Lower	Upper
85	100		
135	63.3	49.8	74.8



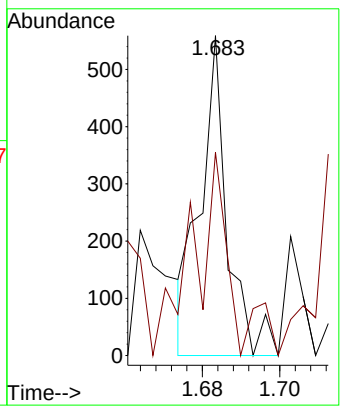


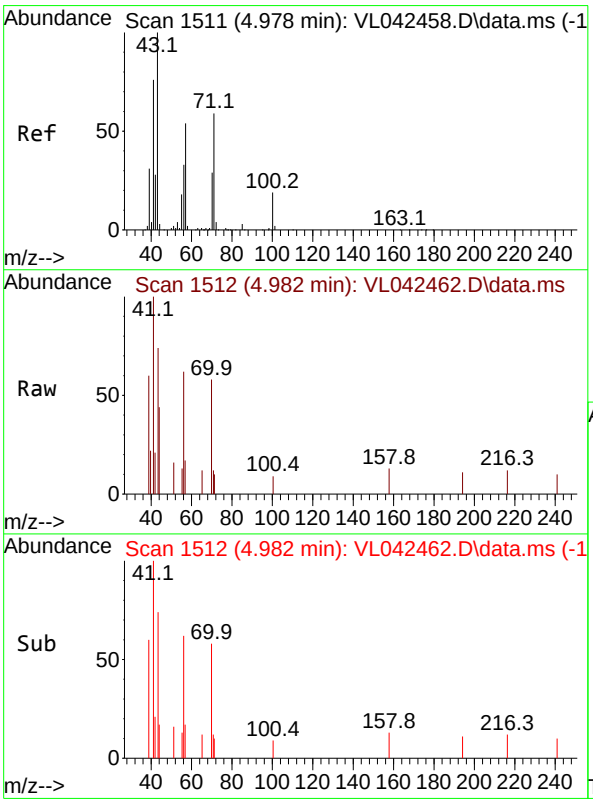
#9
Propene
Concen: 0.072 ppbv
RT: 1.683 min Scan# 4
Delta R.T. 0.201 min
Lab File: VL042462.D
Acq: 01 May 2025 11:12

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion: 41 Resp: 270

Ion	Ratio	Lower	Upper
41	100		
42	79.6	54.3	81.5

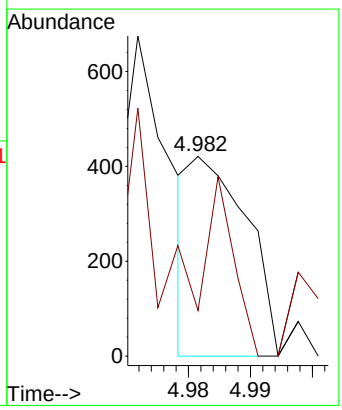


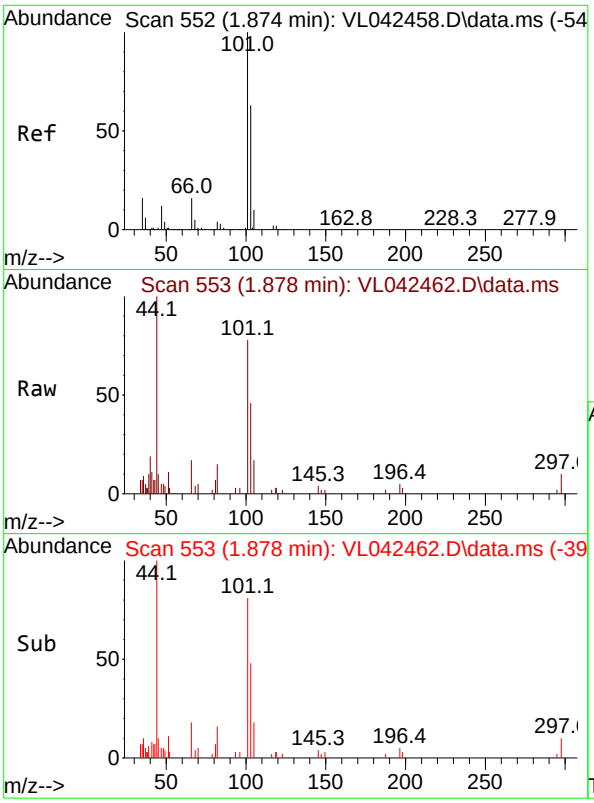


#10
Heptane
Concen: 0.028 ppbv
RT: 4.982 min Scan# 1512
Delta R.T. 0.003 min
Lab File: VL042462.D
Acq: 01 May 2025 11:12

Tgt Ion: 43 Resp: 268

Ion	Ratio	Lower	Upper
43	100		
57	0.0	41.8	62.8#



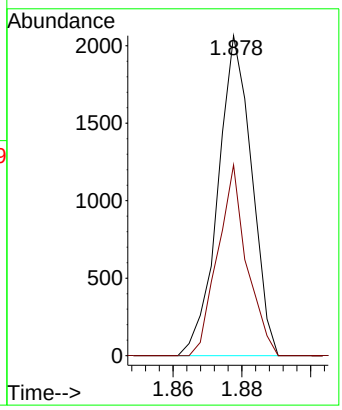


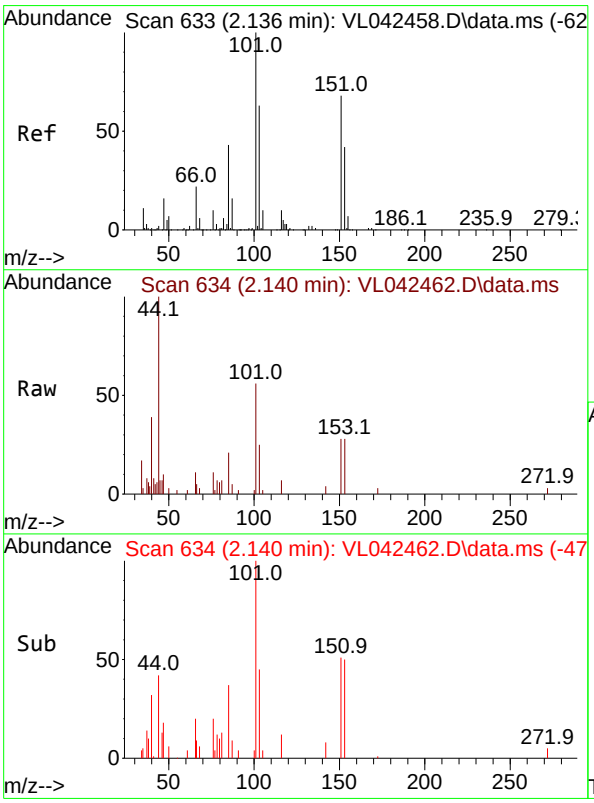
#11
Trichlorofluoromethane
Concen: 0.146 ppbv
RT: 1.878 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042462.D
Acq: 01 May 2025 11:12

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion:101 Resp: 1407

Ion	Ratio	Lower	Upper
101	100		
103	59.6	50.6	76.0

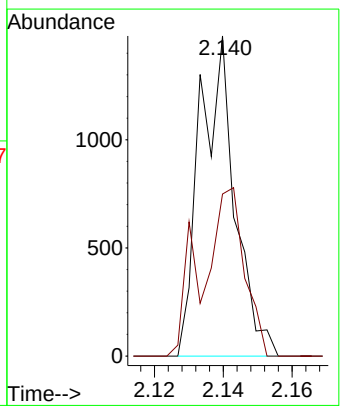


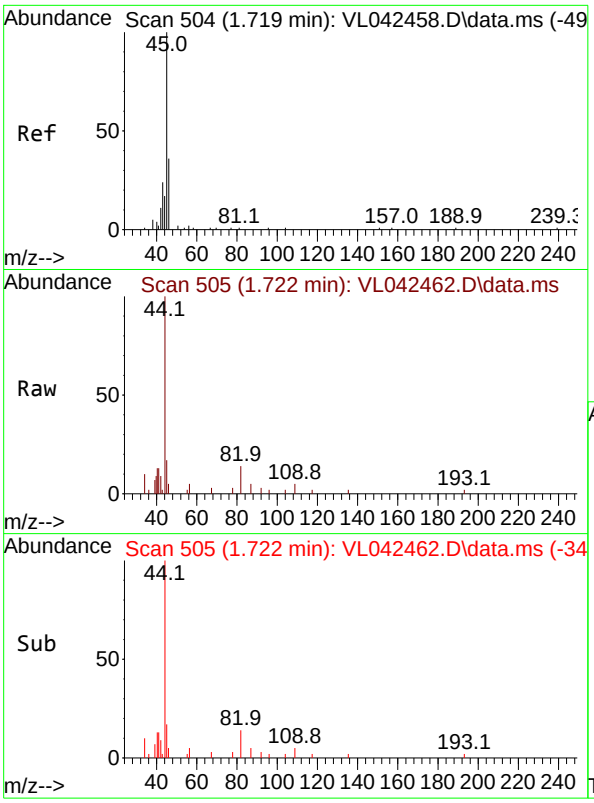


#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.131 ppbv
RT: 2.140 min Scan# 634
Delta R.T. 0.003 min
Lab File: VL042462.D
Acq: 01 May 2025 11:12

Tgt Ion:101 Resp: 1045

Ion	Ratio	Lower	Upper
101	100		
151	63.8	54.6	82.0



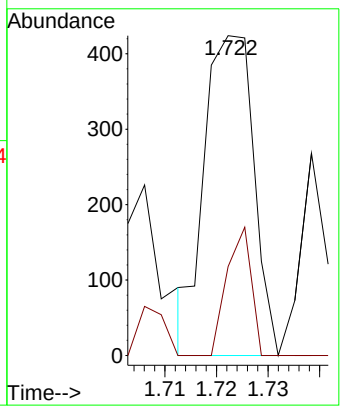


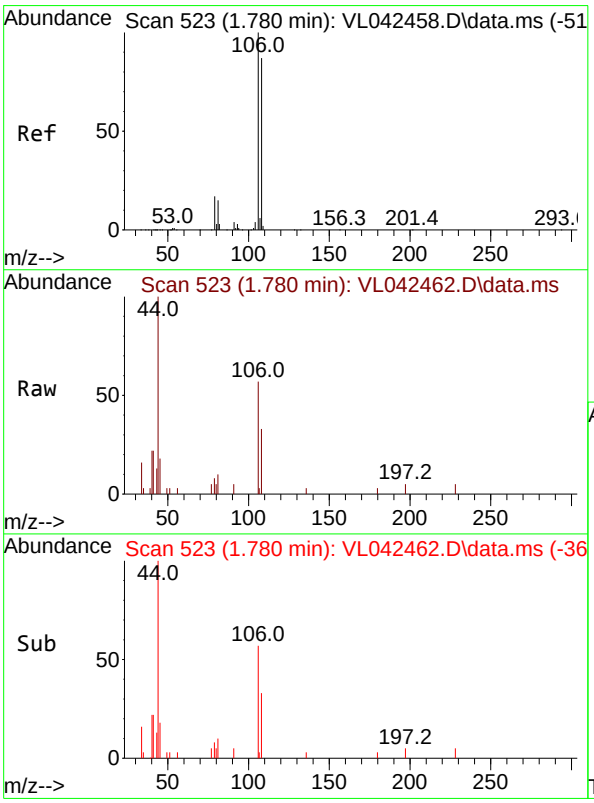
#13
Ethanol
Concen: 0.370 ppbv
RT: 1.722 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042462.D
Acq: 01 May 2025 11:12

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion: 45 Resp: 281

Ion	Ratio	Lower	Upper
45	100		
46	0.0	15.3	61.1#

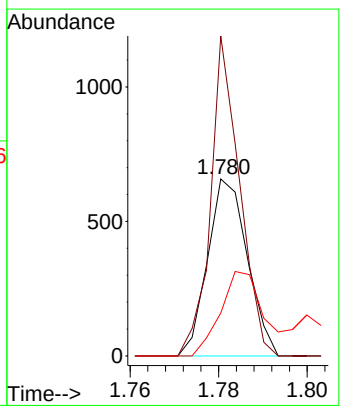


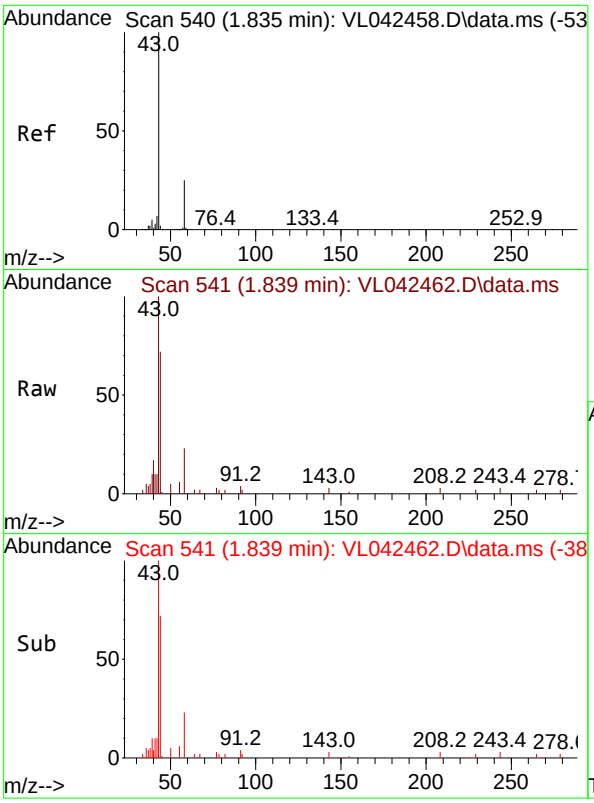


#14
Bromoethene
Concen: 0.139 ppbv
RT: 1.780 min Scan# 523
Delta R.T. 0.000 min
Lab File: VL042462.D
Acq: 01 May 2025 11:12

Tgt Ion:108 Resp: 409

Ion	Ratio	Lower	Upper
108	100		
106	132.3	88.8	133.2
79	81.9	17.1	25.7#



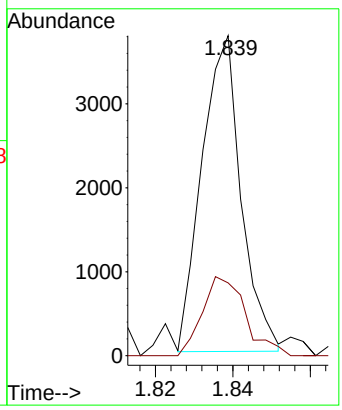


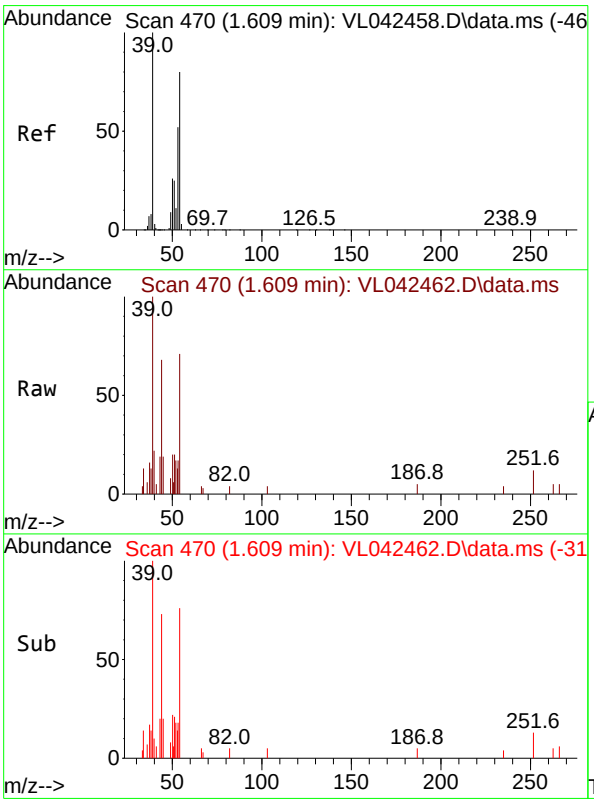
#15
Acetone
Concen: 0.221 ppbv
RT: 1.839 min Scan# 54
Delta R.T. 0.003 min
Lab File: VL042462.D
Acq: 01 May 2025 11:12

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion: 43 Resp: 2646

Ion	Ratio	Lower	Upper
43	100		
58	27.5	19.8	29.8

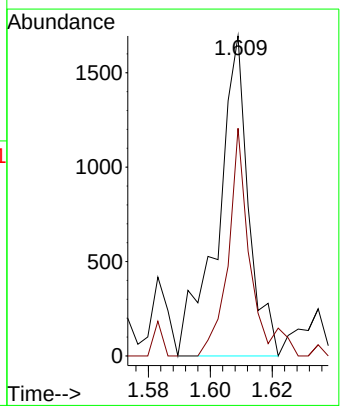


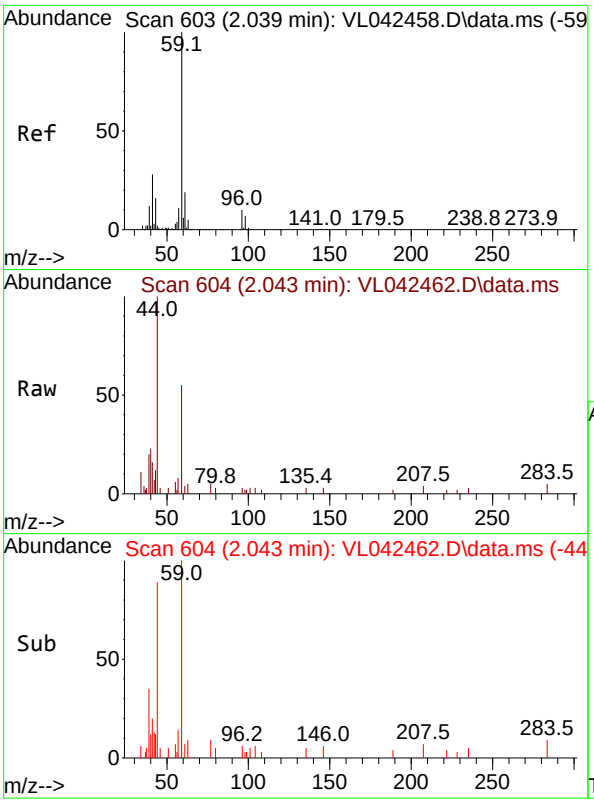


#16
1,3-Butadiene
Concen: 0.222 ppbv
RT: 1.609 min Scan# 470
Delta R.T. 0.000 min
Lab File: VL042462.D
Acq: 01 May 2025 11:12

Tgt Ion: 39 Resp: 1170

Ion	Ratio	Lower	Upper
39	100		
54	52.5	55.2	82.8#



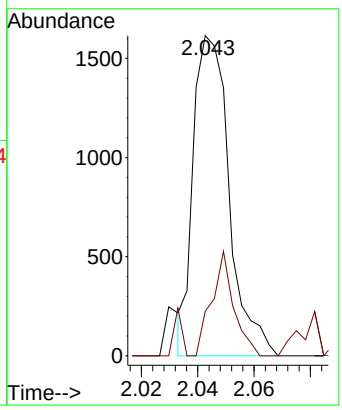


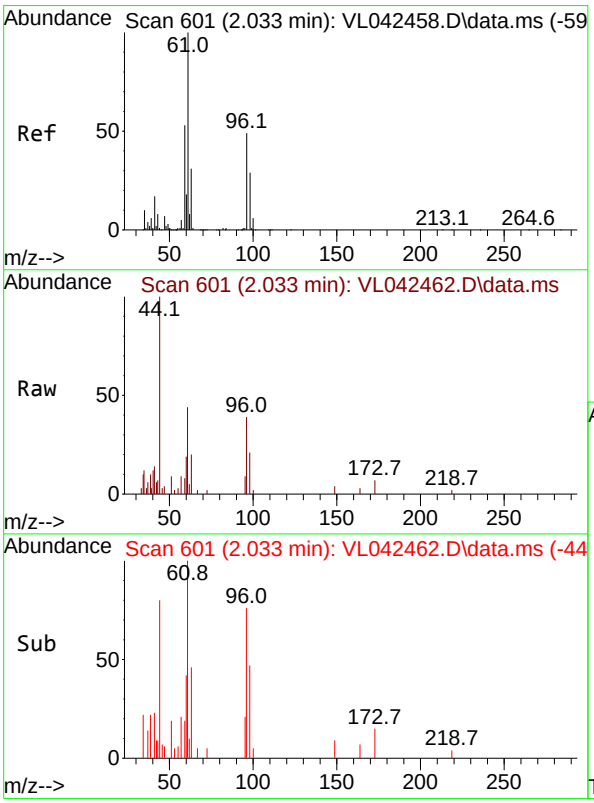
#17
tert-Butyl alcohol
Concen: 0.136 ppbv
RT: 2.043 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL042462.D
Acq: 01 May 2025 11:12

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion: 59 Resp: 1429

Ion	Ratio	Lower	Upper
59	100		
57	31.1	8.3	12.5#

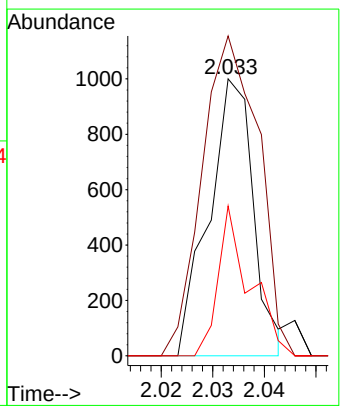


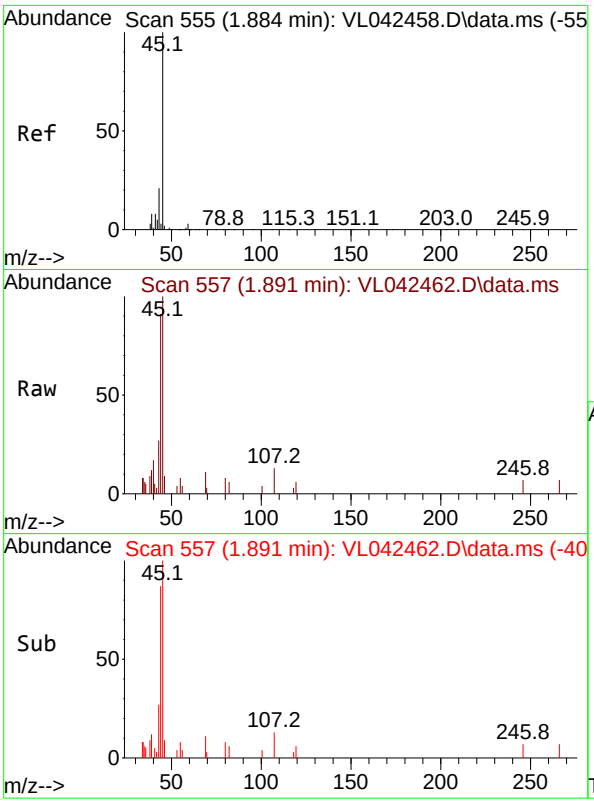


#18
1,1-Dichloroethene
Concen: 0.161 ppbv
RT: 2.033 min Scan# 601
Delta R.T. 0.000 min
Lab File: VL042462.D
Acq: 01 May 2025 11:12

Tgt Ion: 96 Resp: 601

Ion	Ratio	Lower	Upper
96	100		
61	116.9	164.9	247.3#
98	54.1	48.2	72.2



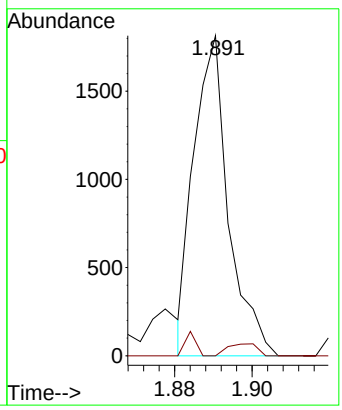


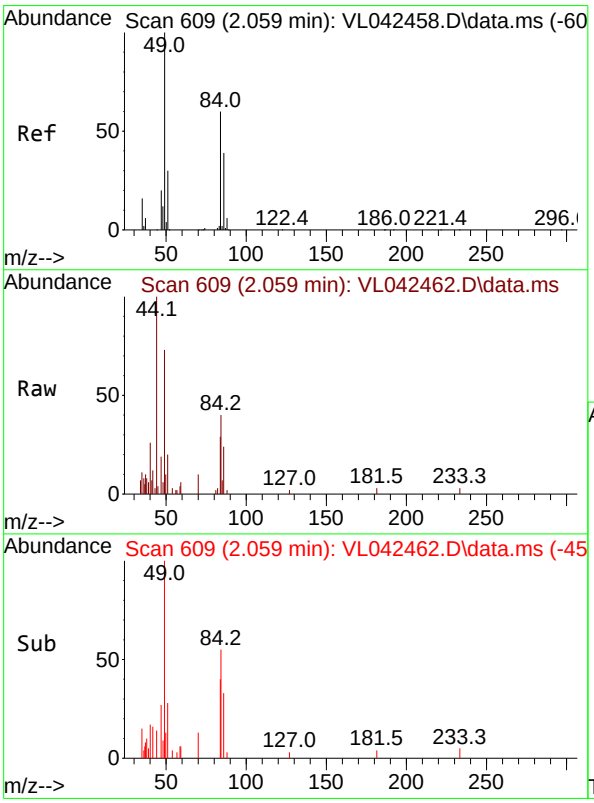
#19
Isopropyl Alcohol
Concen: 0.170 ppbv
RT: 1.891 min Scan# 5
Delta R.T. 0.007 min
Lab File: VL042462.D
Acq: 01 May 2025 11:12

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion: 45 Resp: 1127

Ion	Ratio	Lower	Upper
45	100		
58	5.6	1.6	2.4#

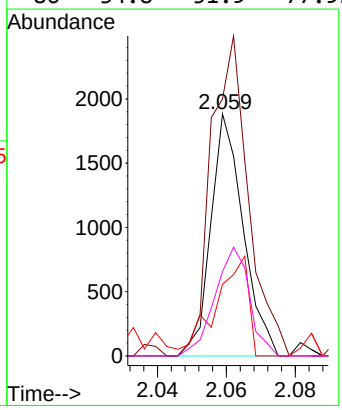


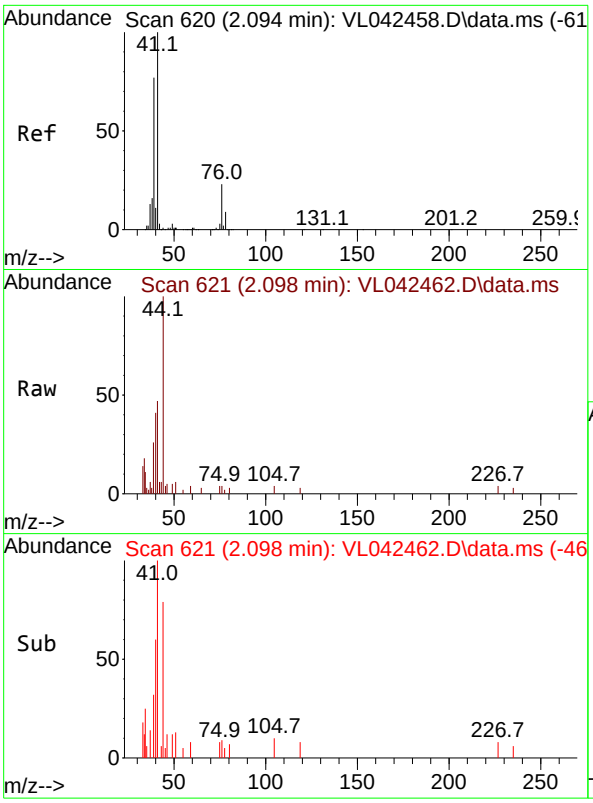


#20
Methylene Chloride
Concen: 0.343 ppbv
RT: 2.059 min Scan# 609
Delta R.T. 0.000 min
Lab File: VL042462.D
Acq: 01 May 2025 11:12

Tgt Ion: 84 Resp: 1233

Ion	Ratio	Lower	Upper
84	100		
49	116.1	133.9	200.9#
51	29.7	41.0	61.6#
86	34.8	51.9	77.9#



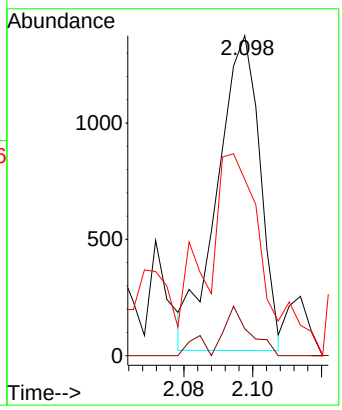


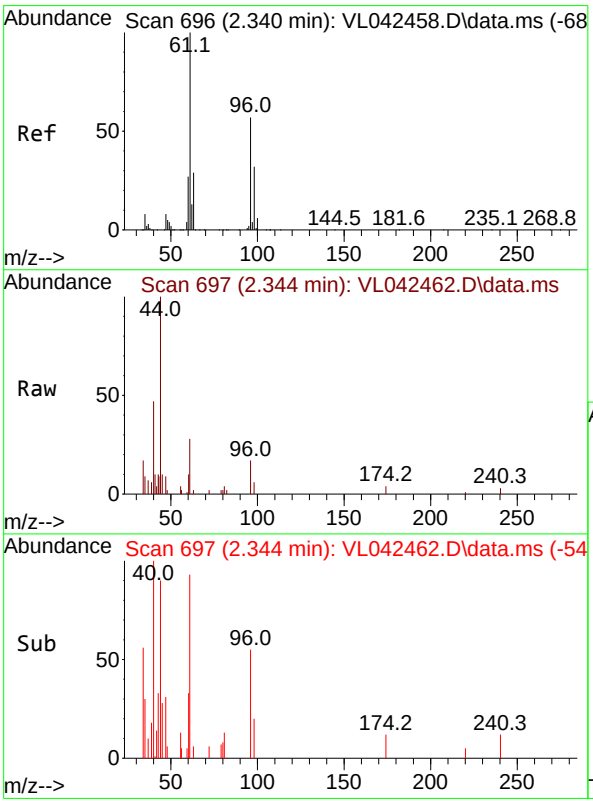
#21
Allyl Chloride
Concen: 0.151 ppbv
RT: 2.098 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL042462.D
Acq: 01 May 2025 11:12

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion: 41 Resp: 1159

Ion	Ratio	Lower	Upper
41	100		
76	12.0	19.6	29.4#
39	108.1	61.0	91.4#

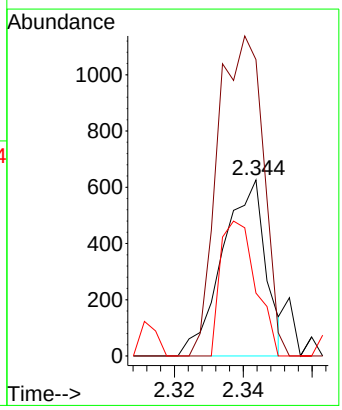


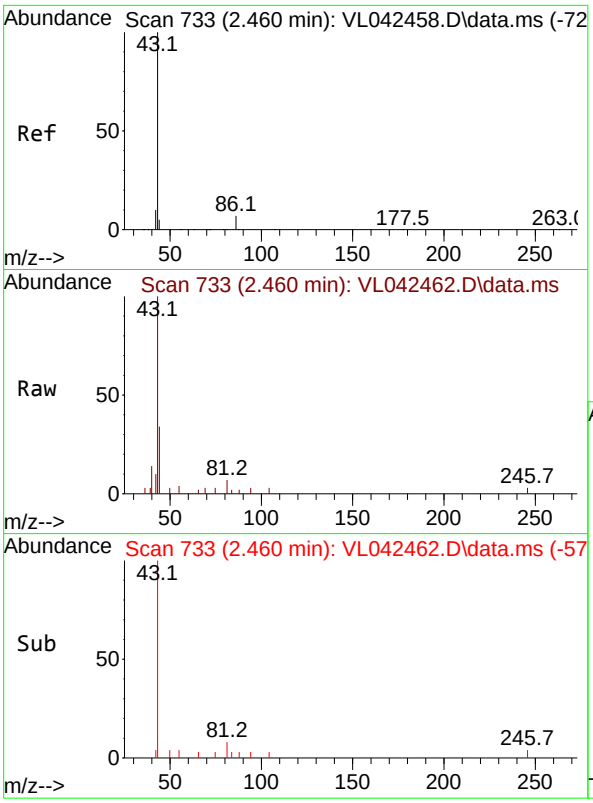


#22
trans-1,2-Dichloroethene
Concen: 0.125 ppbv
RT: 2.344 min Scan# 697
Delta R.T. 0.003 min
Lab File: VL042462.D
Acq: 01 May 2025 11:12

Tgt Ion: 96 Resp: 544

Ion	Ratio	Lower	Upper
96	100		
61	168.4	141.8	212.6
98	35.8	45.0	67.6#



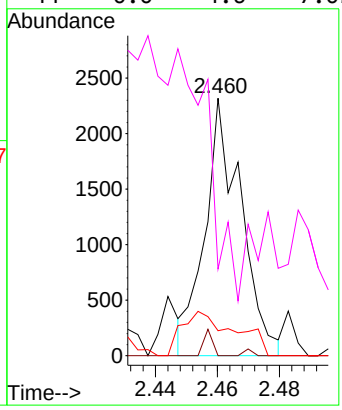


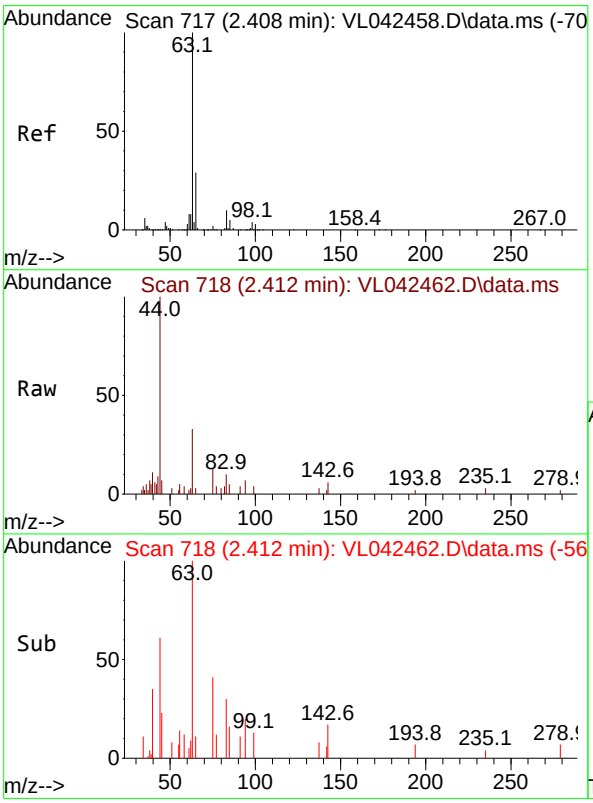
#23
Vinyl Acetate
Concen: 0.168 ppbv
RT: 2.460 min Scan# 7
Delta R.T. 0.000 min
Lab File: VL042462.D
Acq: 01 May 2025 11:12

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion: 43 Resp: 1870

Ion	Ratio	Lower	Upper
43	100		
86	0.0	5.5	8.3#
42	10.3	8.3	12.5
44	0.0	4.6	7.0#

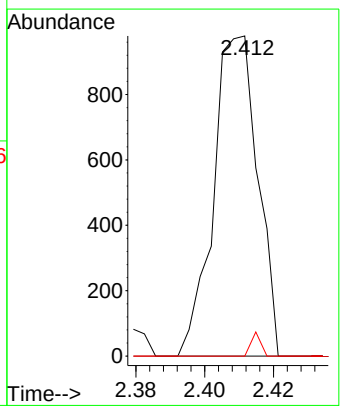


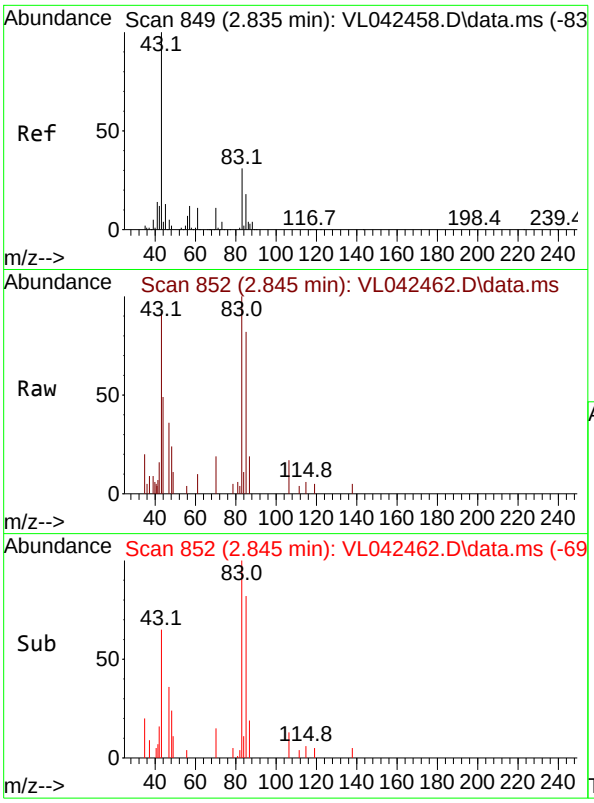


#24
1,1-Dichloroethane
Concen: 0.099 ppbv
RT: 2.412 min Scan# 718
Delta R.T. 0.003 min
Lab File: VL042462.D
Acq: 01 May 2025 11:12

Tgt Ion: 63 Resp: 875

Ion	Ratio	Lower	Upper
63	100		
98	0.0	1.8	5.5#
100	0.0	1.4	4.2#



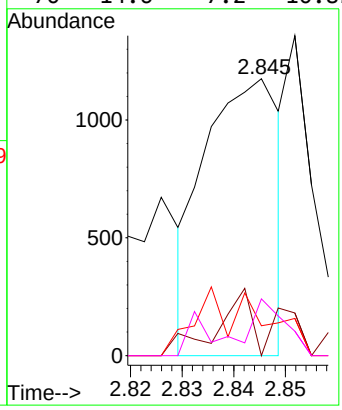


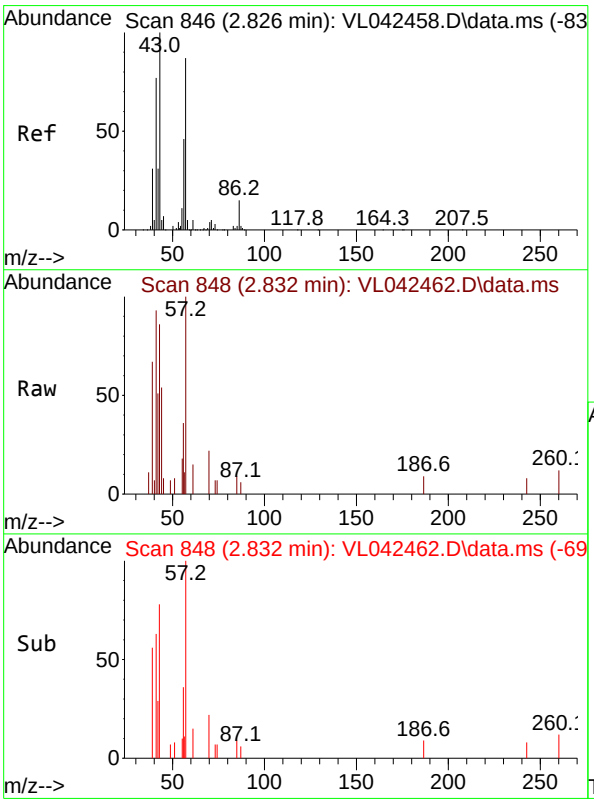
#25
Ethyl Acetate
Concen: 0.062 ppbv
RT: 2.845 min Scan# 8
Delta R.T. 0.010 min
Lab File: VL042462.D
Acq: 01 May 2025 11:12

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion: 43 Resp: 1182

Ion	Ratio	Lower	Upper
43	100		
45	19.0	7.8	11.6#
61	26.3	7.2	10.8#
70	14.6	7.2	10.8#

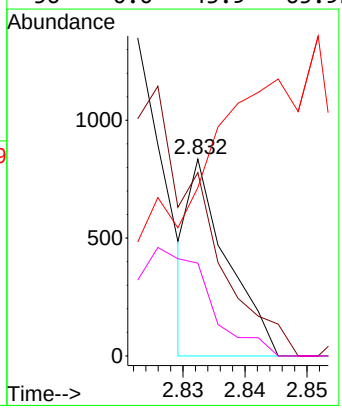


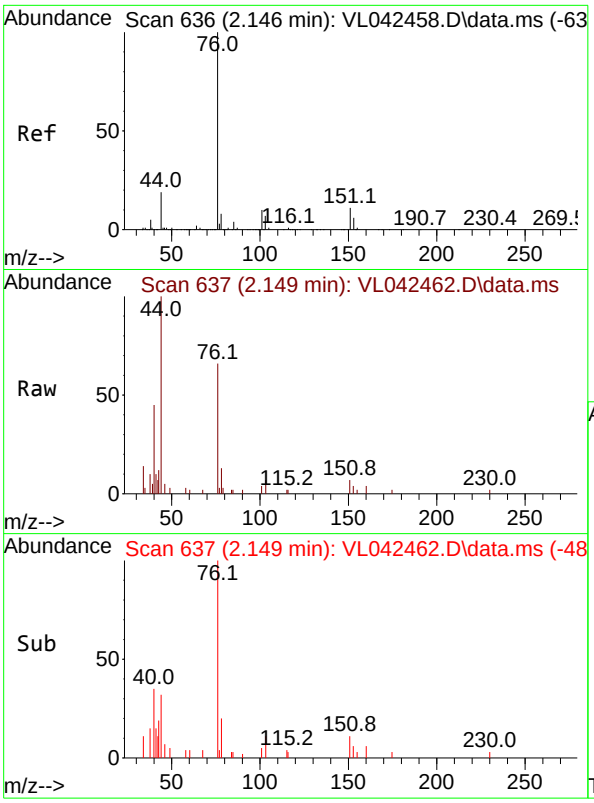


#26
Hexane
Concen: 0.043 ppbv
RT: 2.832 min Scan# 848
Delta R.T. 0.007 min
Lab File: VL042462.D
Acq: 01 May 2025 11:12

Tgt Ion: 57 Resp: 355

Ion	Ratio	Lower	Upper
57	100		
41	0.0	77.8	116.8#
43	647.0	187.0	280.6#
56	0.0	43.9	65.9#



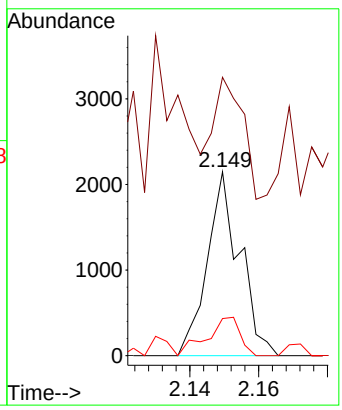


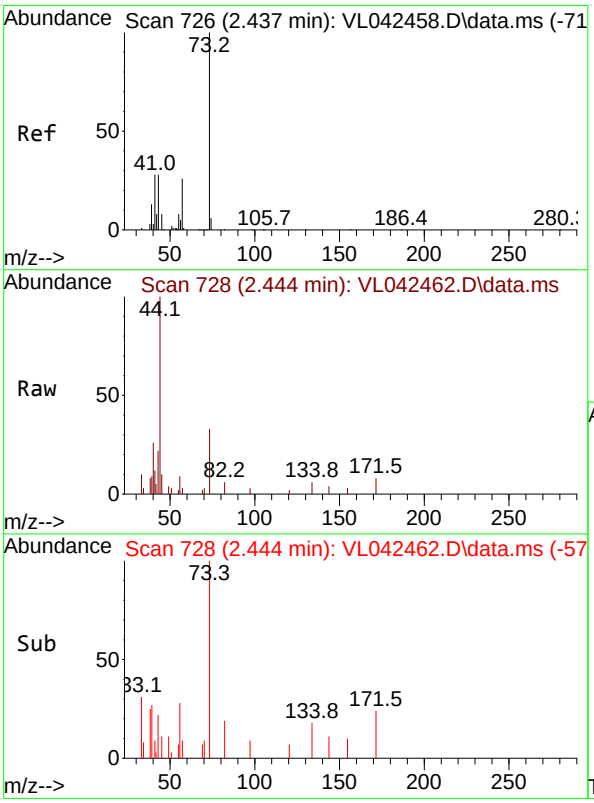
#27
Carbon Disulfide
Concen: 0.145 ppbv
RT: 2.149 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL042462.D
Acq: 01 May 2025 11:12

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion: 76 Resp: 1407

Ion	Ratio	Lower	Upper
76	100		
44	508.0	21.0	31.6#
78	34.0	8.6	13.0#

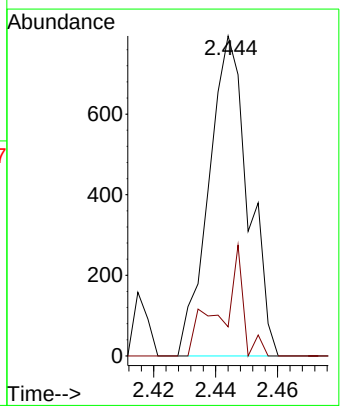


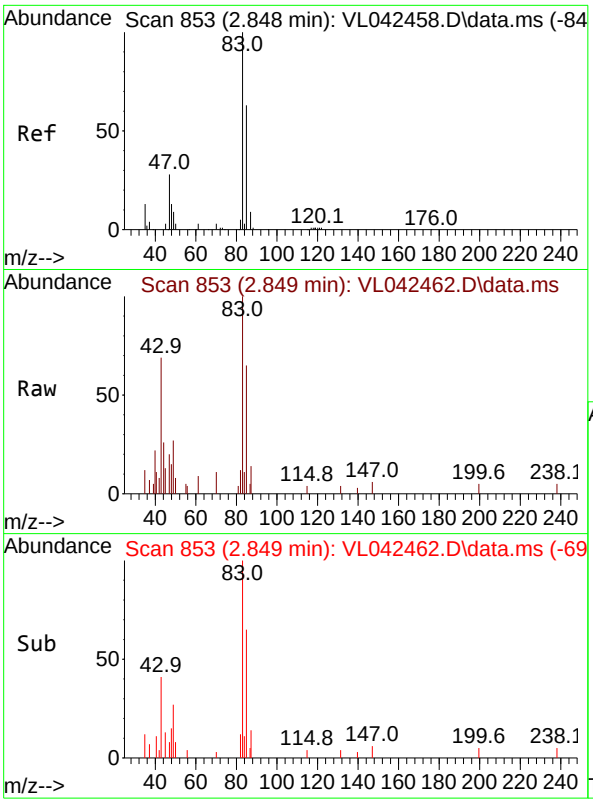


#28
Methyl tert-Butyl Ether
Concen: 0.141 ppbv
RT: 2.444 min Scan# 728
Delta R.T. 0.007 min
Lab File: VL042462.D
Acq: 01 May 2025 11:12

Tgt Ion: 73 Resp: 704

Ion	Ratio	Lower	Upper
73	100		
57	19.7	19.9	29.9#



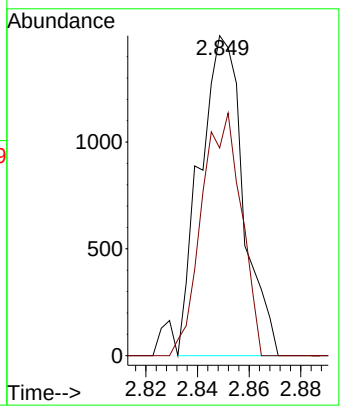


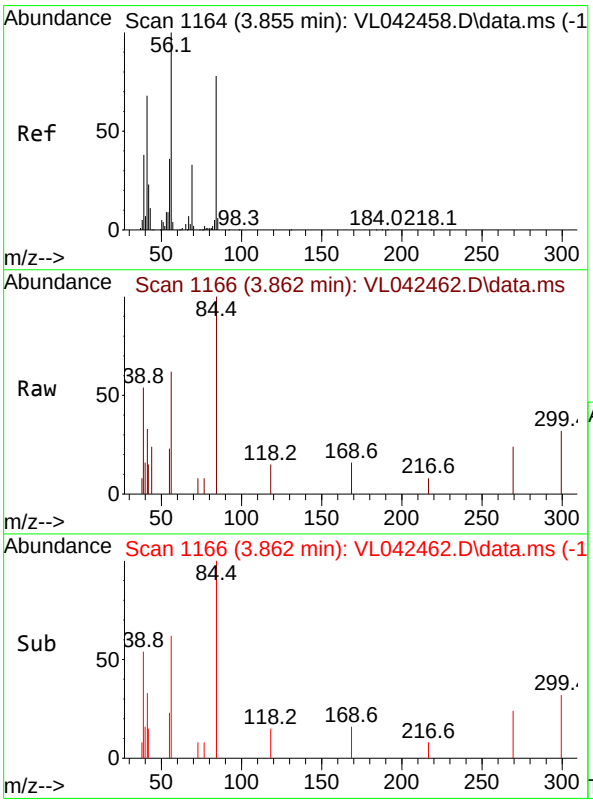
#29
Chloroform
Concen: 0.112 ppbv
RT: 2.849 min Scan# 8
Delta R.T. 0.000 min
Lab File: VL042462.D
Acq: 01 May 2025 11:12

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion: 83 Resp: 1748

Ion	Ratio	Lower	Upper
83	100		
85	64.9	50.4	75.6

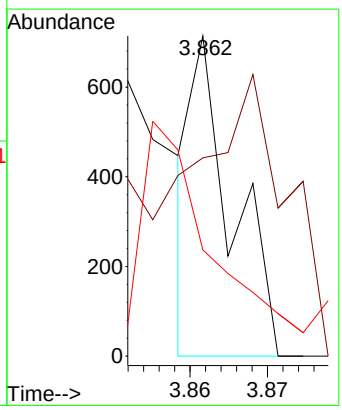


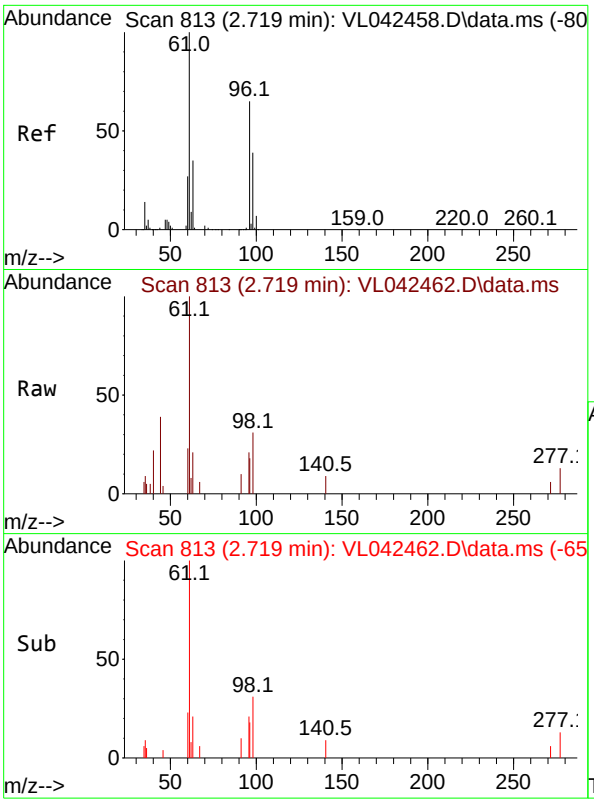


#30
Cyclohexane
Concen: 0.037 ppbv
RT: 3.862 min Scan# 1166
Delta R.T. 0.007 min
Lab File: VL042462.D
Acq: 01 May 2025 11:12

Tgt Ion: 84 Resp: 257

Ion	Ratio	Lower	Upper
84	100		
56	344.4	98.1	147.1#
41	0.0	65.8	98.8#



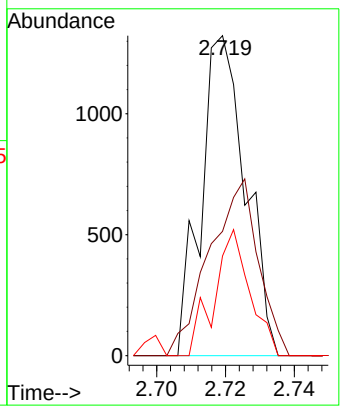


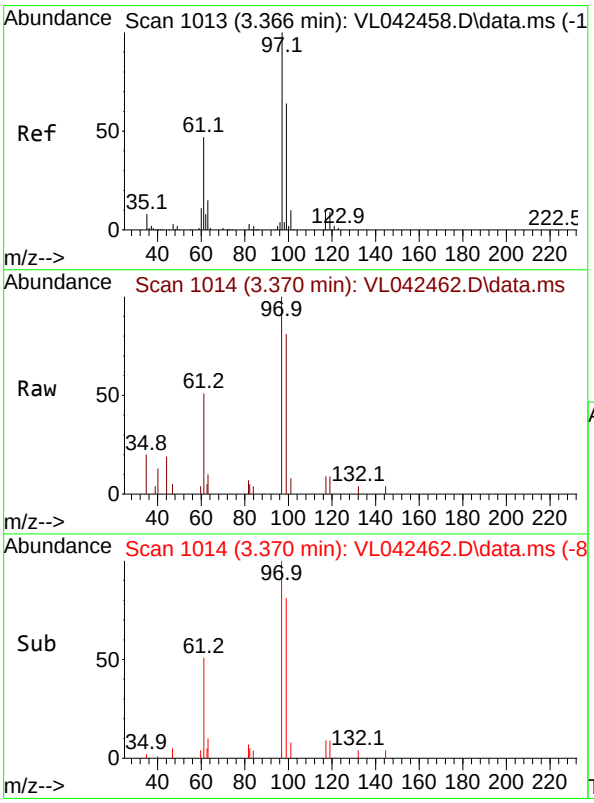
#31
cis-1,2-Dichloroethene
Concen: 0.123 ppbv
RT: 2.719 min Scan# 8
Delta R.T. 0.000 min
Lab File: VL042462.D
Acq: 01 May 2025 11:12

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion: 61 Resp: 1193

Ion	Ratio	Lower	Upper
61	100		
96	31.9	52.0	78.0#
98	31.1	31.0	46.6

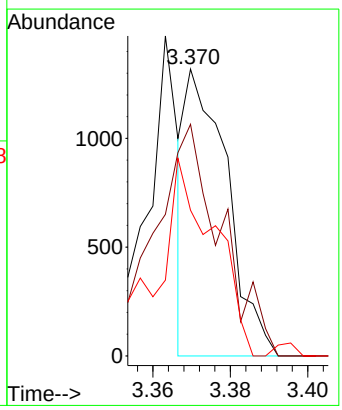


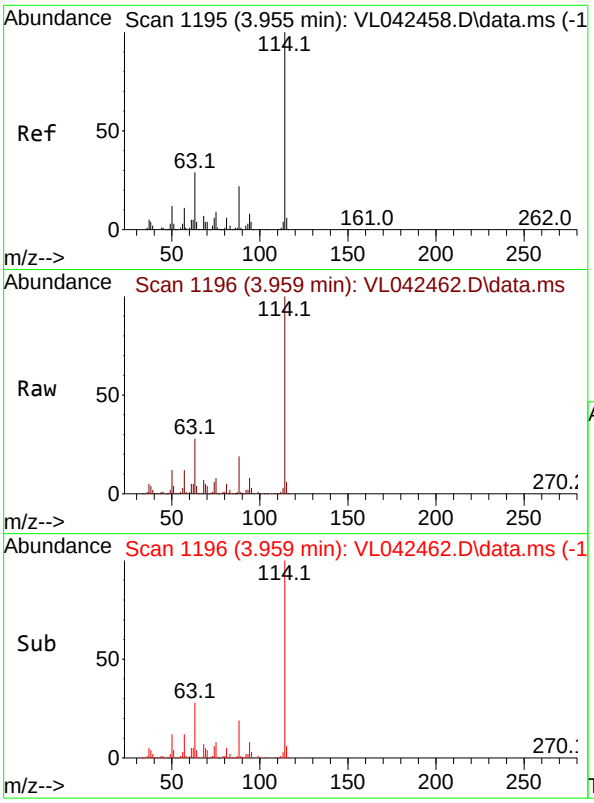


#32
1,1,1-Trichloroethane
Concen: 0.058 ppbv
RT: 3.370 min Scan# 1014
Delta R.T. 0.003 min
Lab File: VL042462.D
Acq: 01 May 2025 11:12

Tgt Ion: 97 Resp: 978

Ion	Ratio	Lower	Upper
97	100		
99	128.3	50.7	76.1#
61	98.0	40.9	61.3#



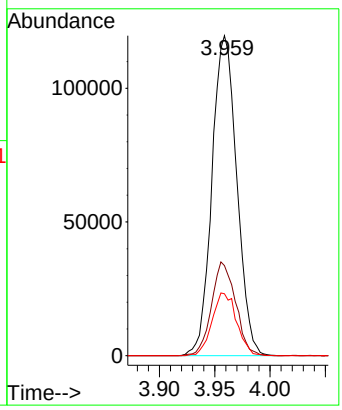


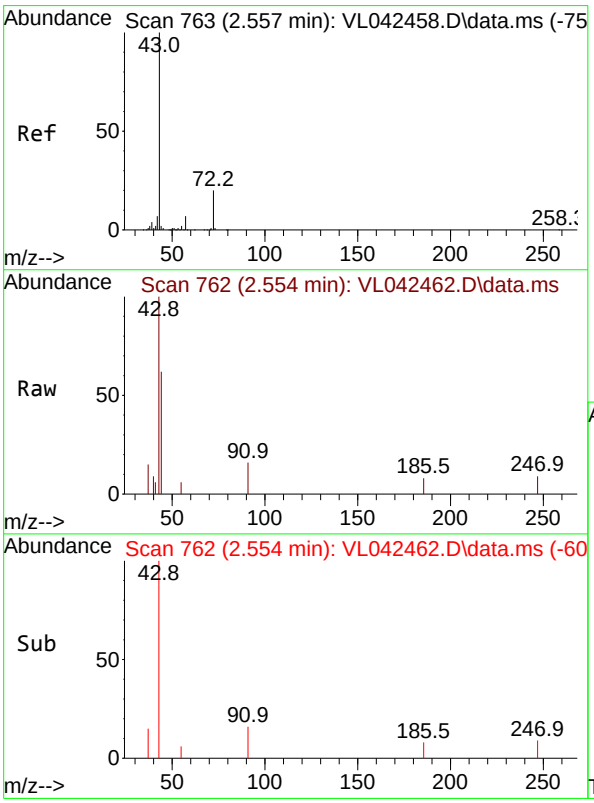
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.959 min Scan# 11
Delta R.T. 0.003 min
Lab File: VL042462.D
Acq: 01 May 2025 11:12

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion:114 Resp: 186907

Ion	Ratio	Lower	Upper
114	100		
63	28.4	23.1	34.7
88	19.4	16.1	24.1

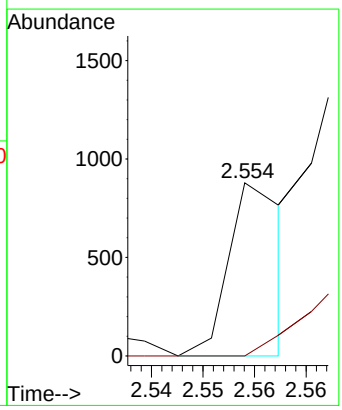


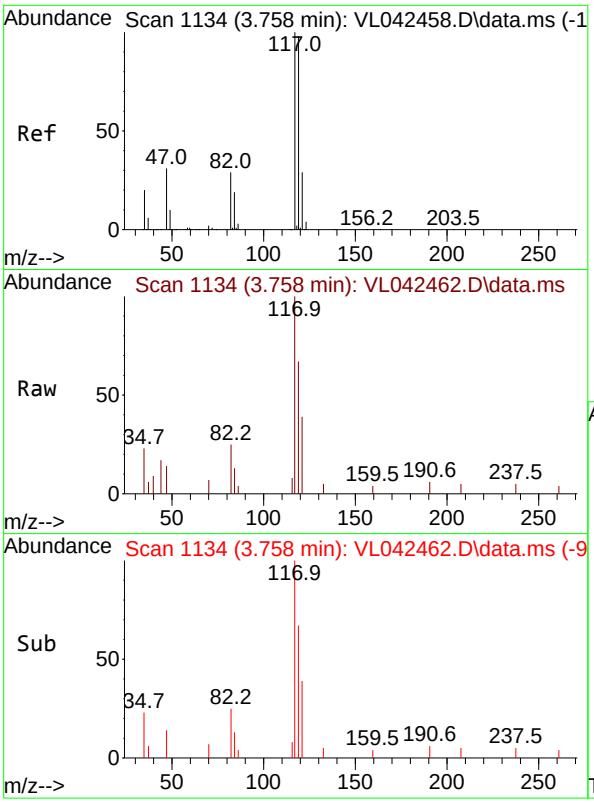


#34
2-Butanone
Concen: 0.025 ppbv
RT: 2.554 min Scan# 762
Delta R.T. -0.003 min
Lab File: VL042462.D
Acq: 01 May 2025 11:12

Tgt Ion: 43 Resp: 337

Ion	Ratio	Lower	Upper
43	100		
72	0.0	16.7	25.1#



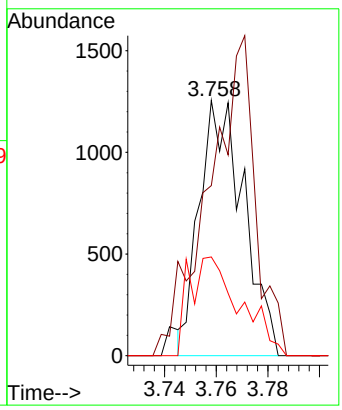


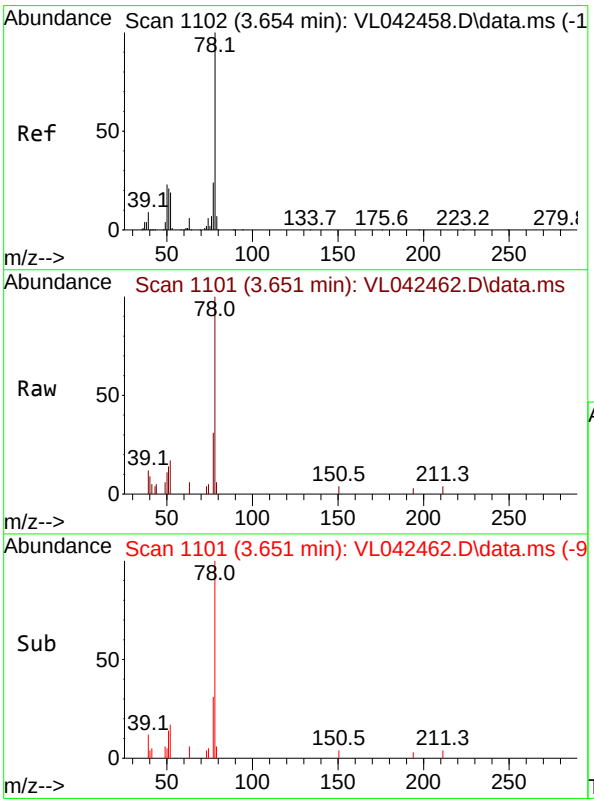
#35
Carbon Tetrachloride
Concen: 0.092 ppbv
RT: 3.758 min Scan# 11
Delta R.T. 0.000 min
Lab File: VL042462.D
Acq: 01 May 2025 11:12

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion:117 Resp: 1493

Ion	Ratio	Lower	Upper
117	100		
119	46.1	78.1	117.1#
121	38.7	23.0	34.6#

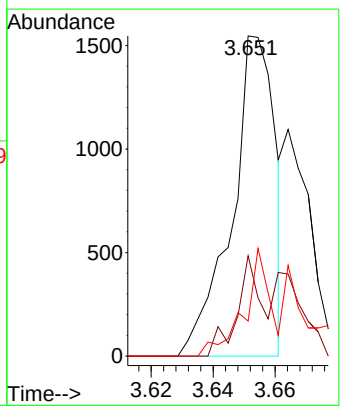


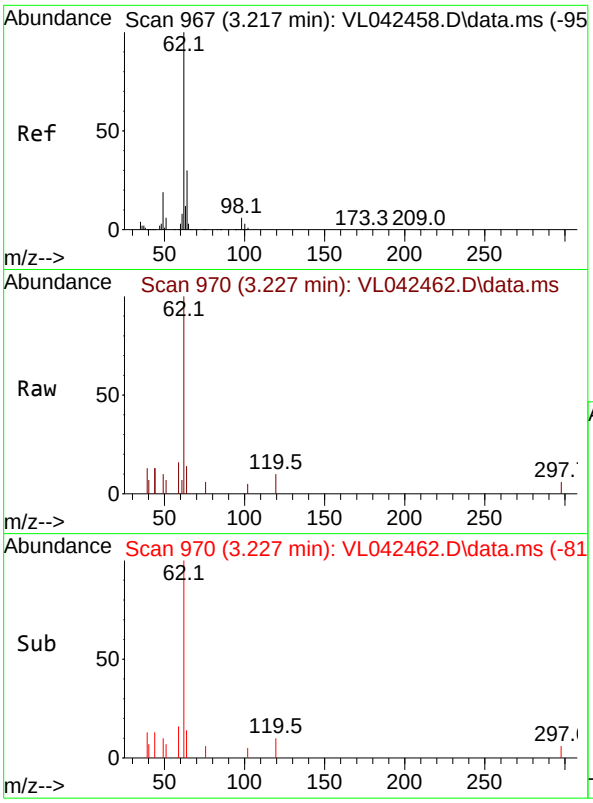


#36
Benzene
Concen: 0.085 ppbv
RT: 3.651 min Scan# 1101
Delta R.T. -0.003 min
Lab File: VL042462.D
Acq: 01 May 2025 11:12

Tgt Ion: 78 Resp: 1494

Ion	Ratio	Lower	Upper
78	100		
77	31.3	18.9	28.3#
50	10.9	18.4	27.6#



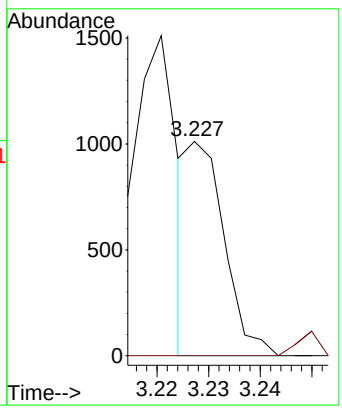


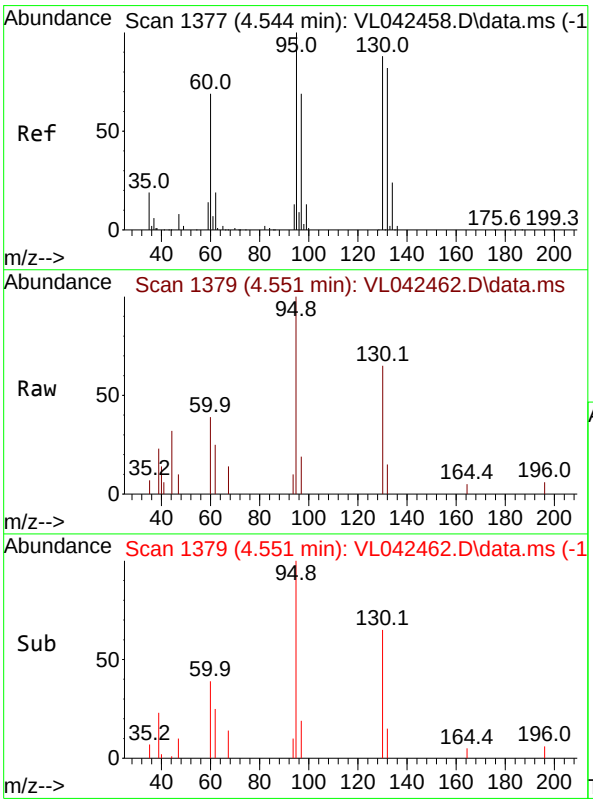
#37
1,2-Dichloroethane
Concen: 0.037 ppbv
RT: 3.227 min Scan# 9
Delta R.T. 0.010 min
Lab File: VL042462.D
Acq: 01 May 2025 11:12

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion: 62 Resp: 499

Ion	Ratio	Lower	Upper
62	100		
98	0.0	4.3	6.5#

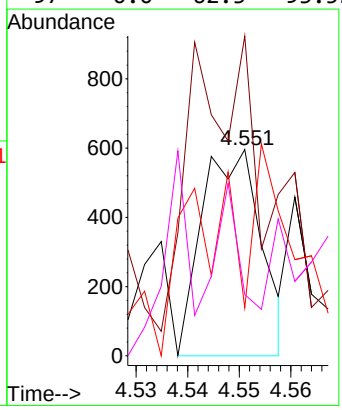


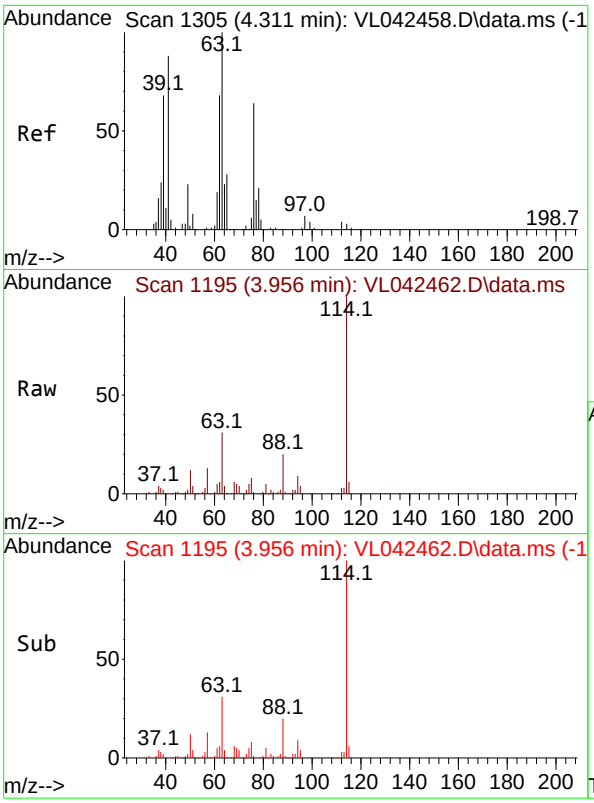


#38
Trichloroethene
Concen: 0.071 ppbv
RT: 4.551 min Scan# 1379
Delta R.T. 0.007 min
Lab File: VL042462.D
Acq: 01 May 2025 11:12

Tgt Ion:130 Resp: 478

Ion	Ratio	Lower	Upper
130	100		
95	95.5	91.0	136.4
132	0.0	74.2	111.4#
97	0.0	62.3	93.5#



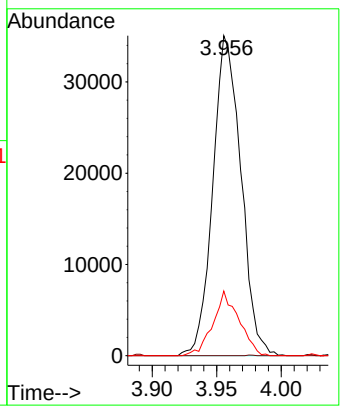


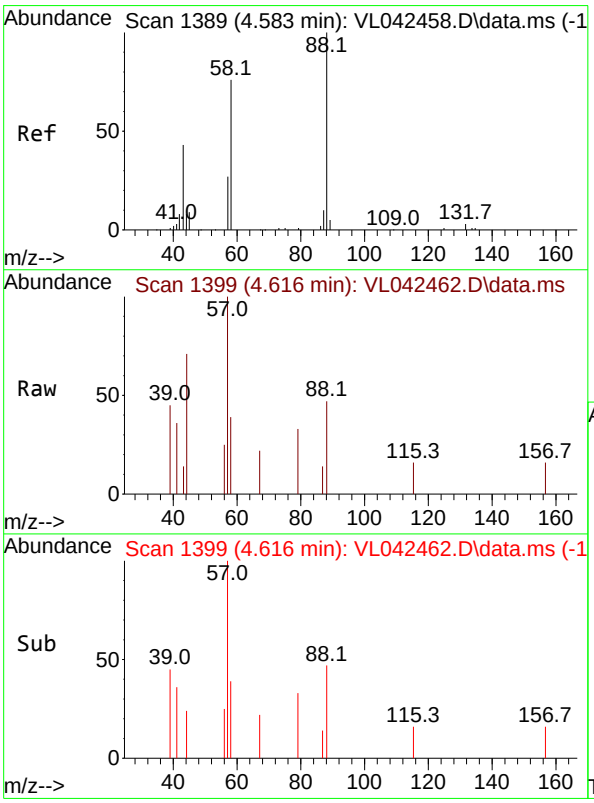
#39
1,2-Dichloropropane
Concen: 8.026 ppbv
RT: 3.956 min Scan# 1
Delta R.T. -0.356 min
Lab File: VL042462.D
Acq: 01 May 2025 11:12

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion: 63 Resp: 53030

Ion	Ratio	Lower	Upper
63	100		
41	0.0	69.8	104.6#
62	20.2	54.3	81.5#

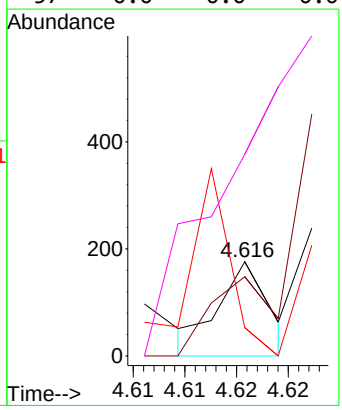


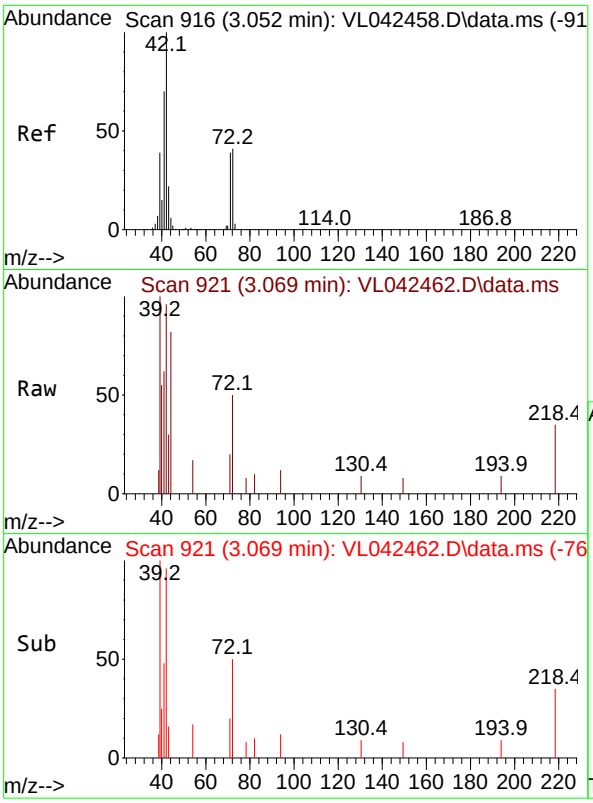


#40
1,4-Dioxane
Concen: 0.019 ppbv
RT: 4.616 min Scan# 1399
Delta R.T. 0.033 min
Lab File: VL042462.D
Acq: 01 May 2025 11:12

Tgt Ion: 88 Resp: 59

Ion	Ratio	Lower	Upper
88	100		
58	0.0	0.0	0.0
43	0.0	0.0	0.0
57	0.0	0.0	0.0



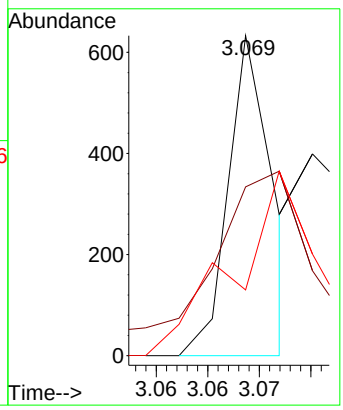


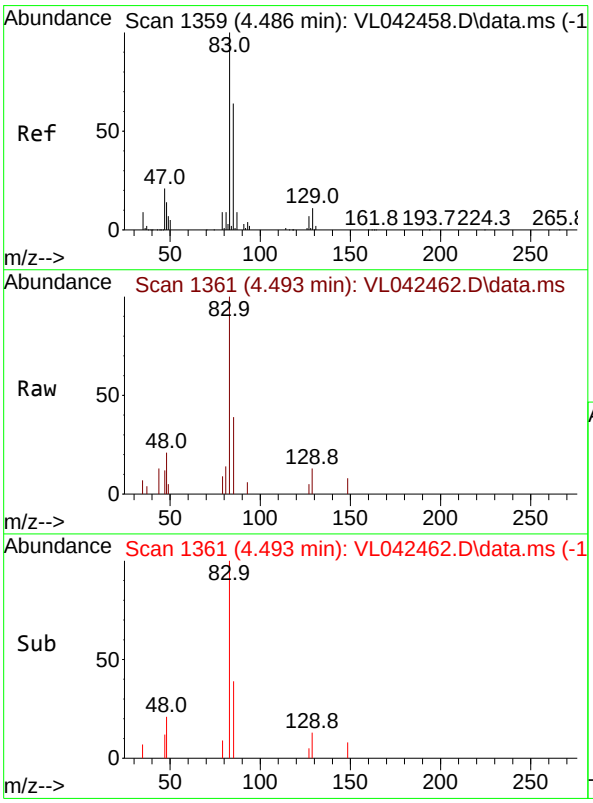
#41
Tetrahydrofuran
Concen: 0.030 ppbv
RT: 3.069 min Scan# 9
Delta R.T. 0.016 min
Lab File: VL042462.D
Acq: 01 May 2025 11:12

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion: 42 Resp: 191

Ion	Ratio	Lower	Upper
42	100		
72	0.0	33.5	50.3#
71	0.0	32.6	49.0#

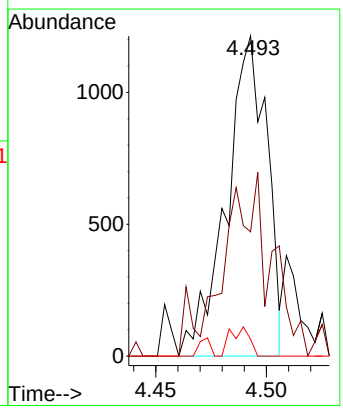


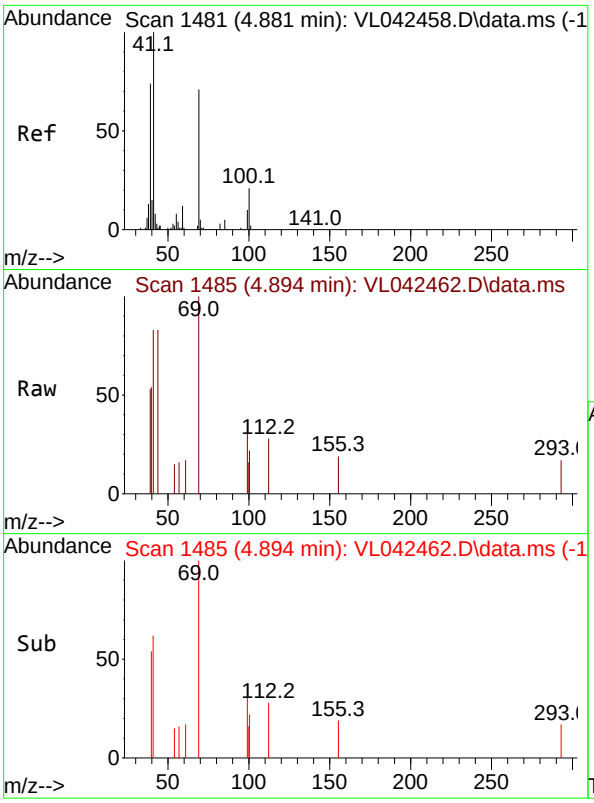


#42
Bromodichloromethane
Concen: 0.093 ppbv
RT: 4.493 min Scan# 1361
Delta R.T. 0.007 min
Lab File: VL042462.D
Acq: 01 May 2025 11:12

Tgt Ion: 83 Resp: 1546

Ion	Ratio	Lower	Upper
83	100		
85	38.8	51.5	77.3#
127	5.3	5.4	8.2#



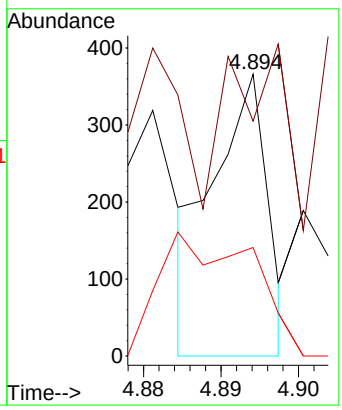


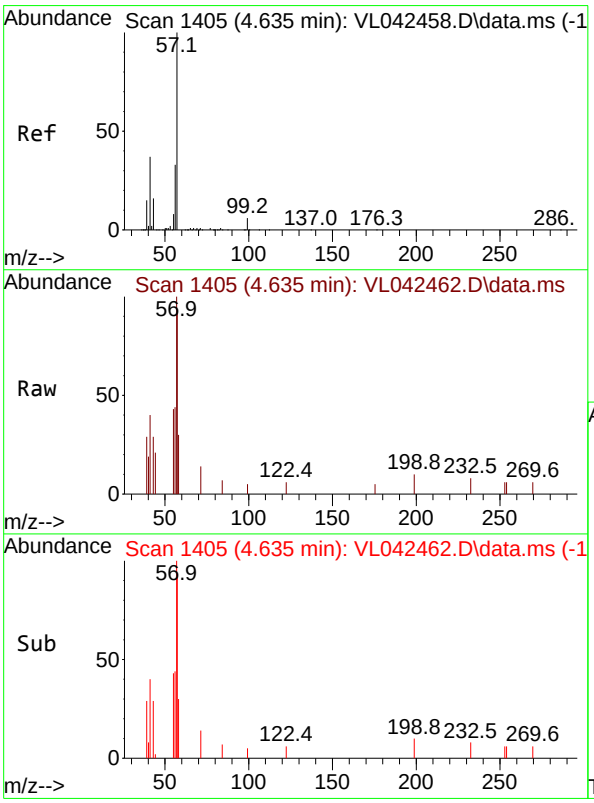
#43
Methyl Methacrylate
Concen: 0.027 ppbv
RT: 4.894 min Scan# 14
Delta R.T. 0.013 min
Lab File: VL042462.D
Acq: 01 May 2025 11:12

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion: 69 Resp: 179

Ion	Ratio	Lower	Upper
69	100		
41	0.0	120.8	181.2#
100	74.9	26.7	40.1#

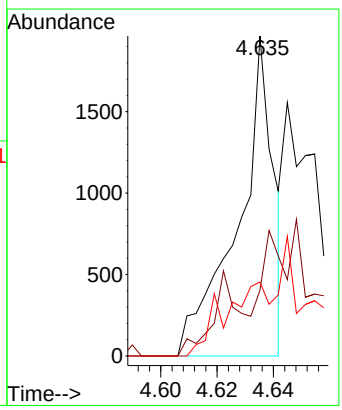


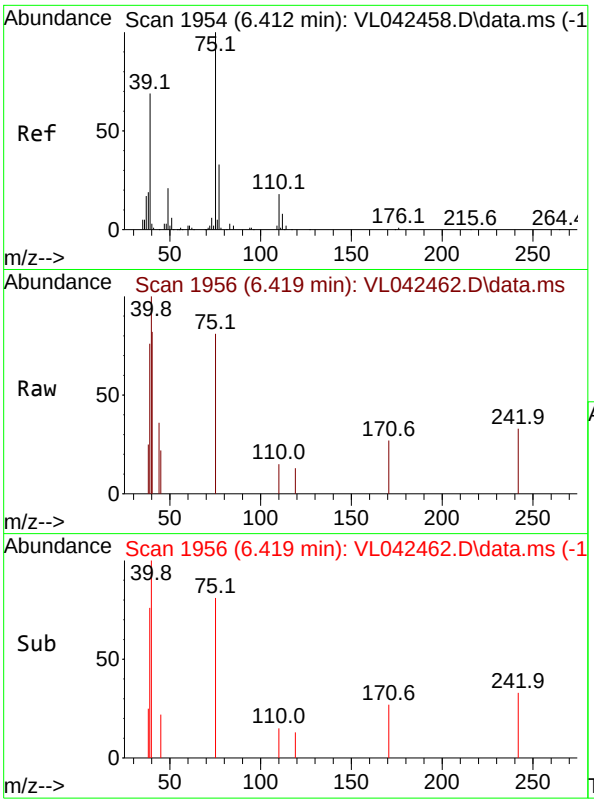


#44
2,2,4-Trimethylpentane
Concen: 0.060 ppbv
RT: 4.635 min Scan# 1405
Delta R.T. 0.000 min
Lab File: VL042462.D
Acq: 01 May 2025 11:12

Tgt Ion: 57 Resp: 1699

Ion	Ratio	Lower	Upper
57	100		
41	0.0	30.6	45.8#
56	0.0	25.0	37.6#



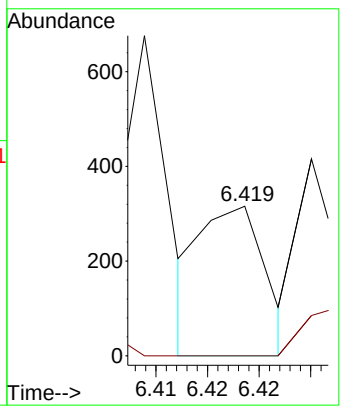


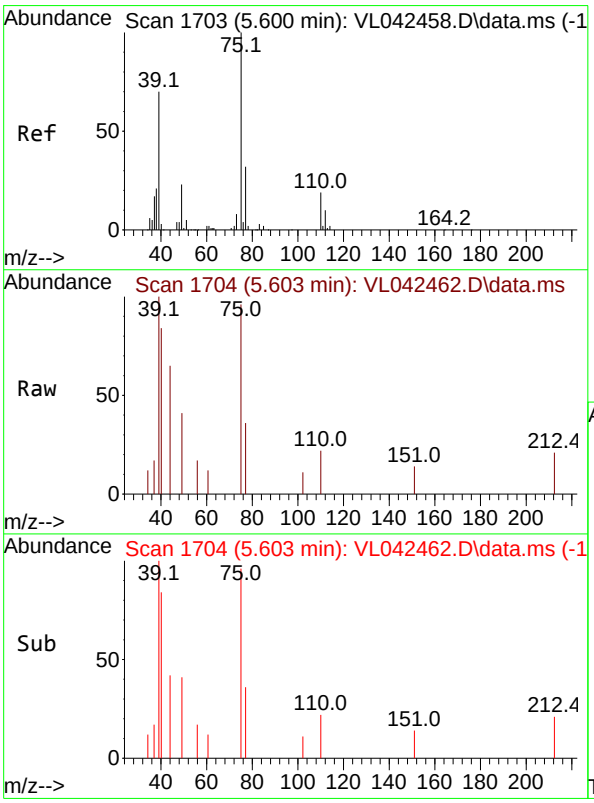
#45
t-1,3-Dichloropropene
Concen: 0.016 ppbv
RT: 6.419 min Scan# 1
Delta R.T. 0.007 min
Lab File: VL042462.D
Acq: 01 May 2025 11:12

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion: 75 Resp: 137

Ion	Ratio	Lower	Upper
75	100		
77	0.0	26.3	39.5#

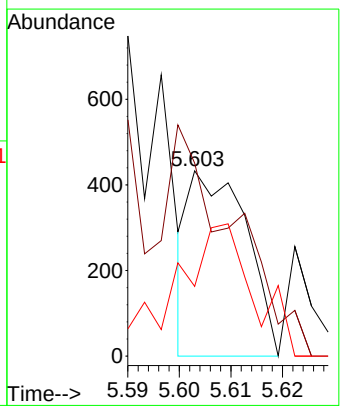


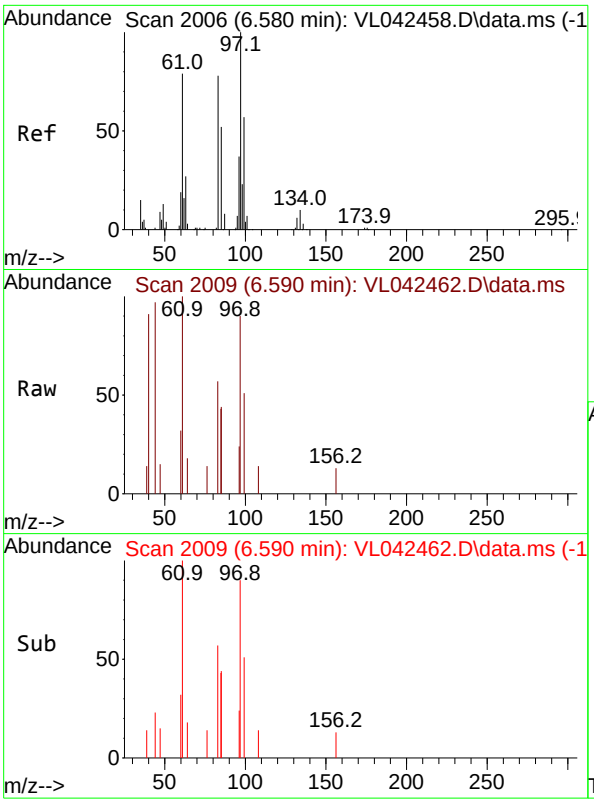


#46
cis-1,3-Dichloropropene
Concen: 0.033 ppbv
RT: 5.603 min Scan# 1704
Delta R.T. 0.003 min
Lab File: VL042462.D
Acq: 01 May 2025 11:12

Tgt Ion: 75 Resp: 334

Ion	Ratio	Lower	Upper
75	100		
39	86.8	55.7	83.5#
77	0.0	25.8	38.8#



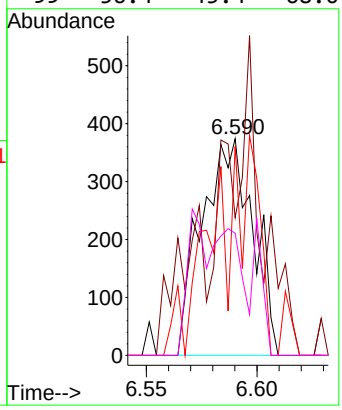


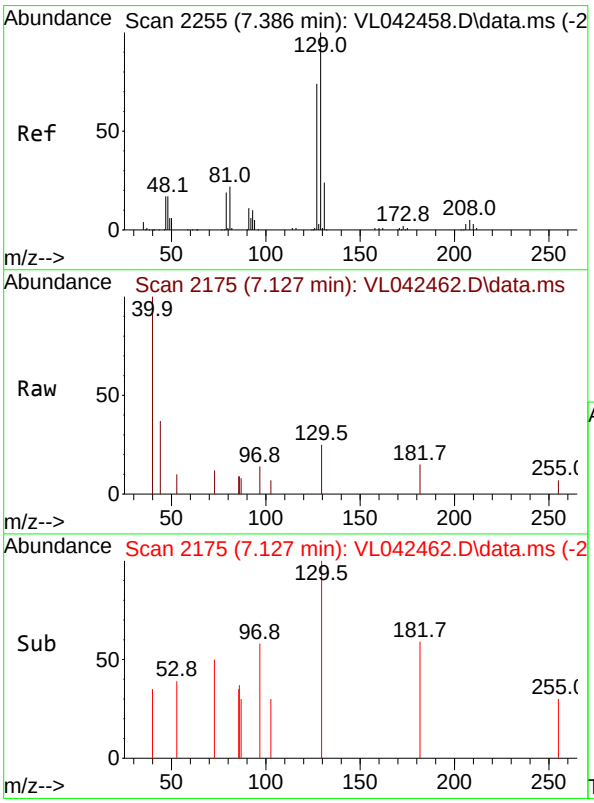
#47
1,1,2-Trichloroethane
Concen: 0.083 ppbv
RT: 6.590 min Scan# 2
Delta R.T. 0.010 min
Lab File: VL042462.D
Acq: 01 May 2025 11:12

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion: 97 Resp: 604

Ion	Ratio	Lower	Upper
97	100		
83	32.6	62.2	93.2#
85	96.5	41.5	62.3#
99	56.4	45.4	68.0

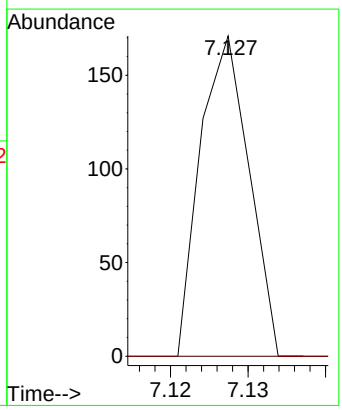


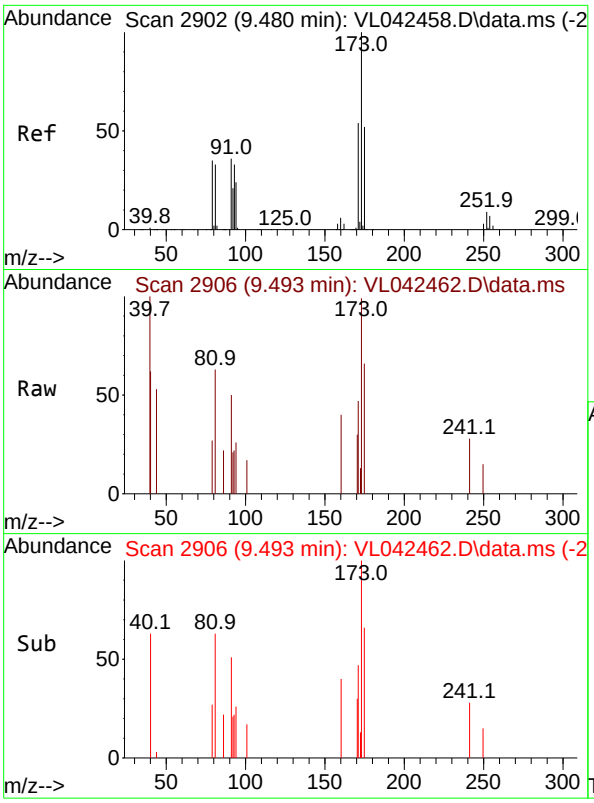


#48
Dibromochloromethane
Concen: 0.006 ppbv
RT: 7.127 min Scan# 2175
Delta R.T. -0.259 min
Lab File: VL042462.D
Acq: 01 May 2025 11:12

Tgt Ion:129 Resp: 75

Ion	Ratio	Lower	Upper
129	100		
127	78.7	39.5	118.5



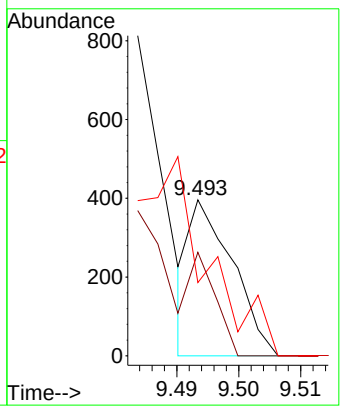


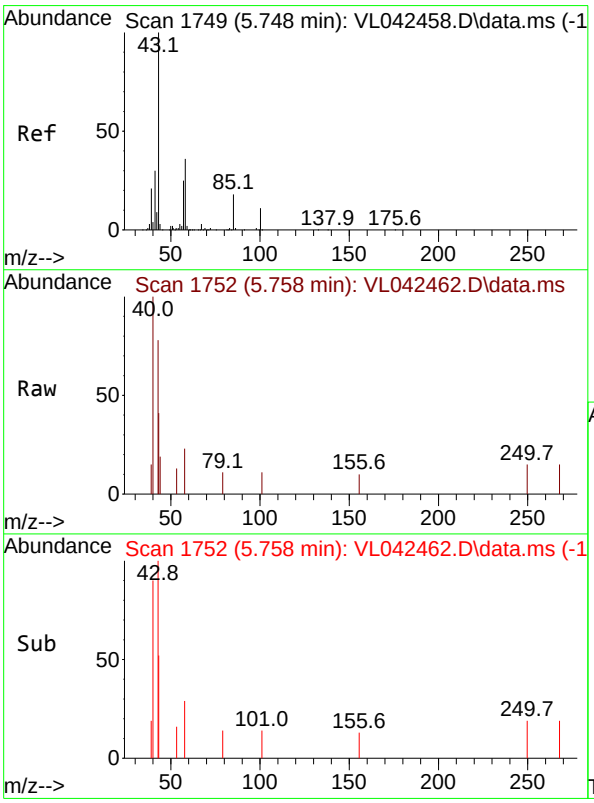
#49
Bromoform
Concen: 0.019 ppbv
RT: 9.493 min Scan# 2
Delta R.T. 0.013 min
Lab File: VL042462.D
Acq: 01 May 2025 11:12

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion:173 Resp: 191

Ion	Ratio	Lower	Upper
173	100		
175	0.0	38.9	58.3#
171	291.6	40.6	60.8#

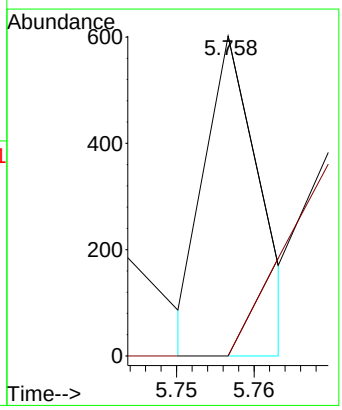


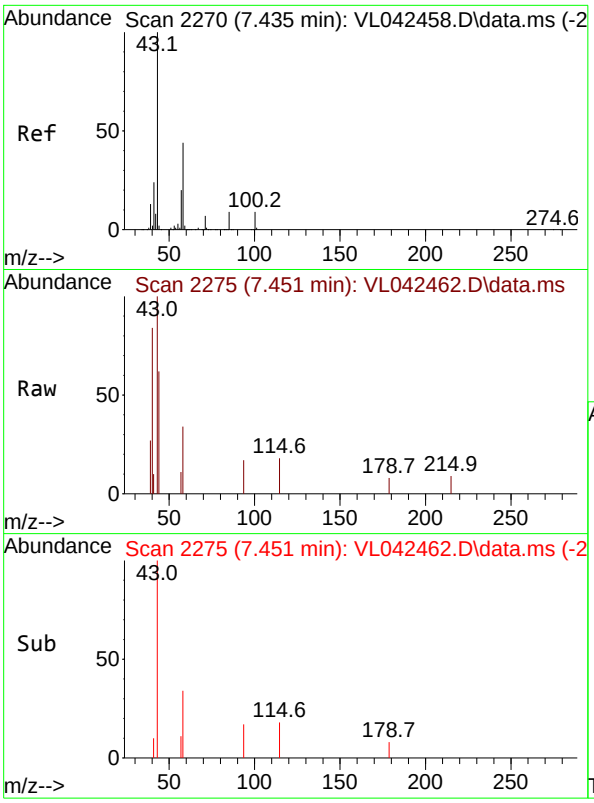


#50
4-Methyl-2-Pentanone
Concen: 0.009 ppbv
RT: 5.758 min Scan# 1752
Delta R.T. 0.010 min
Lab File: VL042462.D
Acq: 01 May 2025 11:12

Tgt Ion: 43 Resp: 150

Ion	Ratio	Lower	Upper
43	100		
58	0.0	29.5	44.3#



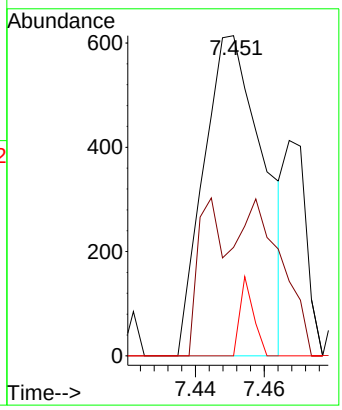


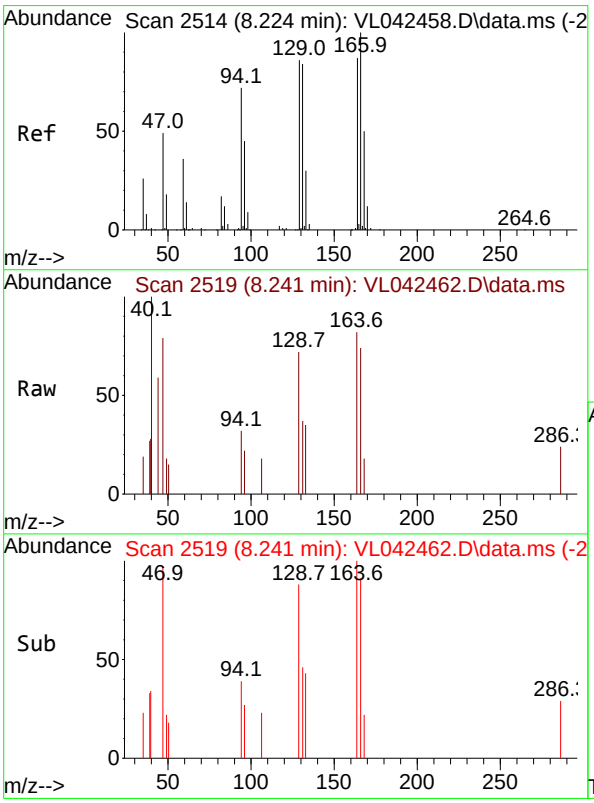
#51
2-Hexanone
Concen: 0.054 ppbv
RT: 7.451 min Scan# 2
Delta R.T. 0.016 min
Lab File: VL042462.D
Acq: 01 May 2025 11:12

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion: 43 Resp: 738

Ion	Ratio	Lower	Upper
43	100		
58	57.9	37.2	55.8#
98	5.7	0.4	0.6#

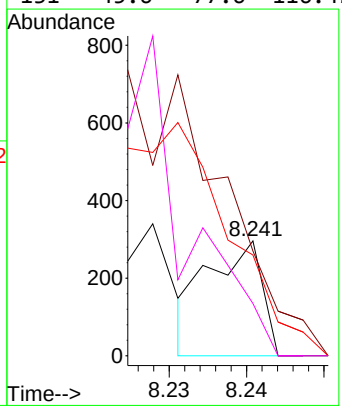


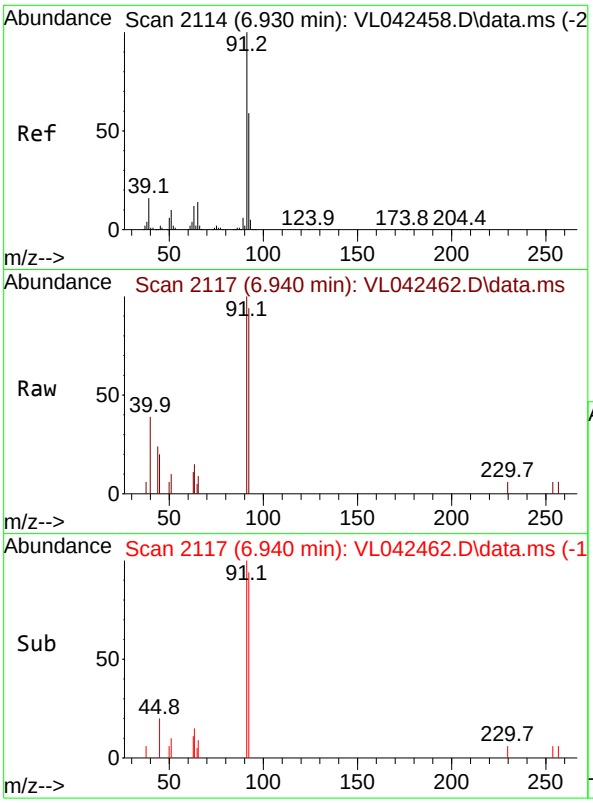


#52
Tetrachloroethene
Concen: 0.021 ppbv
RT: 8.241 min Scan# 2519
Delta R.T. 0.016 min
Lab File: VL042462.D
Acq: 01 May 2025 11:12

Tgt Ion:164 Resp: 143

Ion	Ratio	Lower	Upper
164	100		
166	52.4	91.6	137.4#
129	58.4	79.0	118.4#
131	45.6	77.6	116.4#



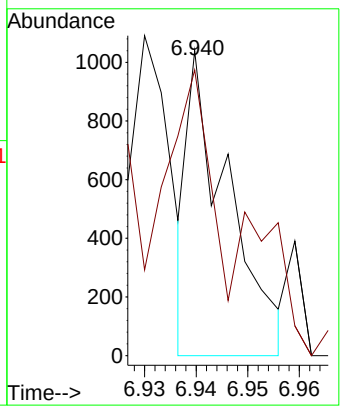


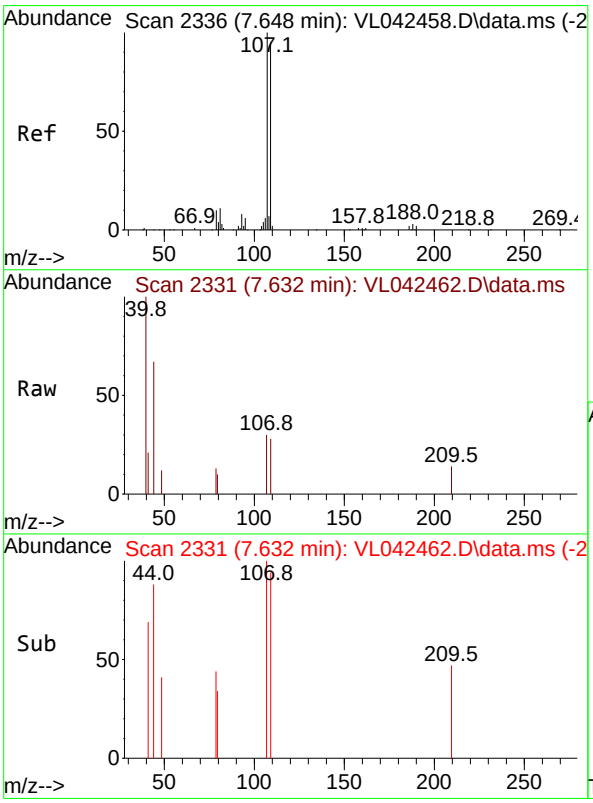
#53
Toluene
Concen: 0.031 ppbv
RT: 6.940 min Scan# 21
Delta R.T. 0.010 min
Lab File: VL042462.D
Acq: 01 May 2025 11:12

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion: 91 Resp: 572

Ion	Ratio	Lower	Upper
91	100		
92	242.3	47.9	71.9#

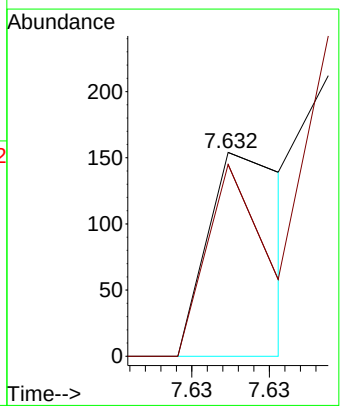


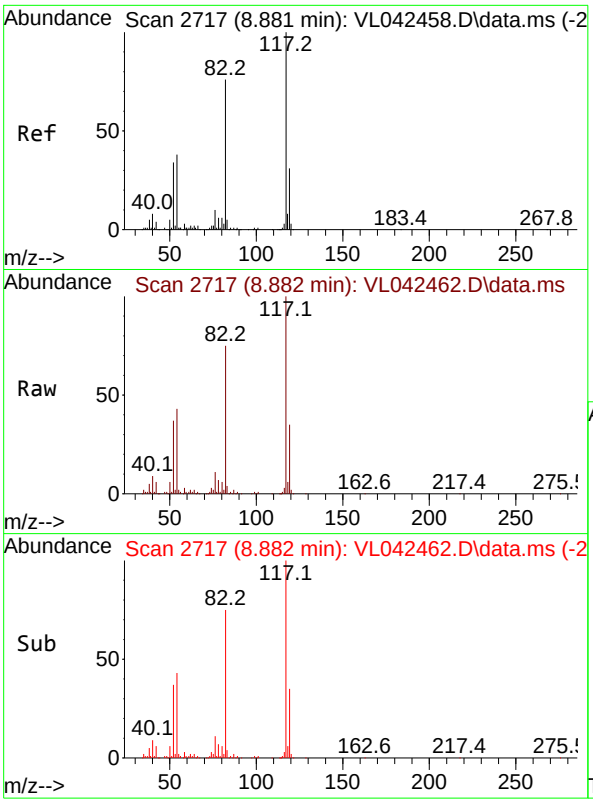


#54
1,2-Dibromoethane
Concen: 0.005 ppbv
RT: 7.632 min Scan# 2331
Delta R.T. -0.016 min
Lab File: VL042462.D
Acq: 01 May 2025 11:12

Tgt Ion:107 Resp: 57

Ion	Ratio	Lower	Upper
107	100		
109	94.2	76.0	114.0



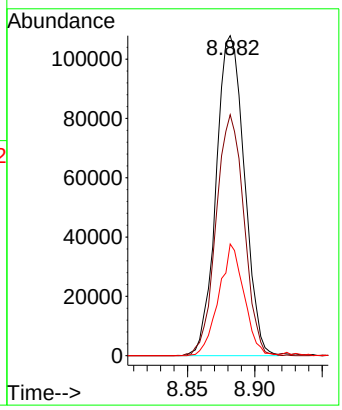


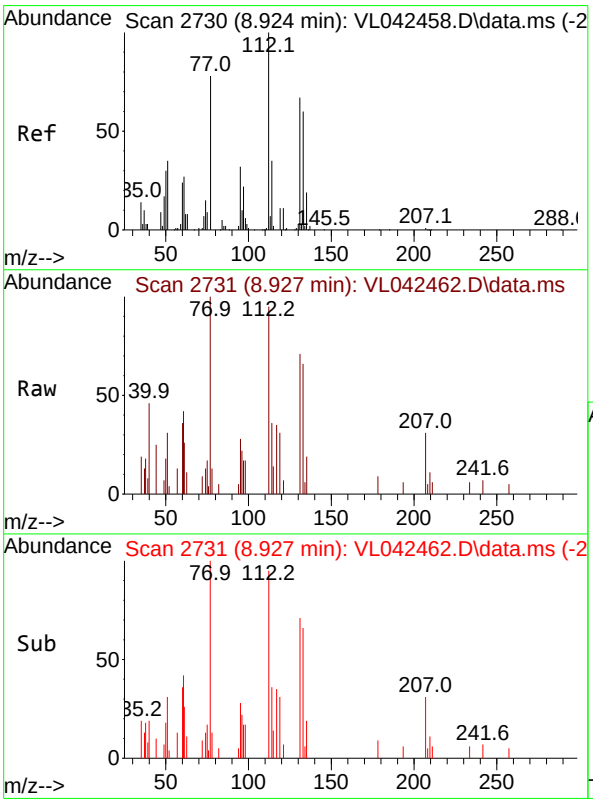
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.882 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042462.D
Acq: 01 May 2025 11:12

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion:117 Resp: 157618

Ion	Ratio	Lower	Upper
117	100		
82	74.3	63.5	95.3
119	31.7	25.8	38.8

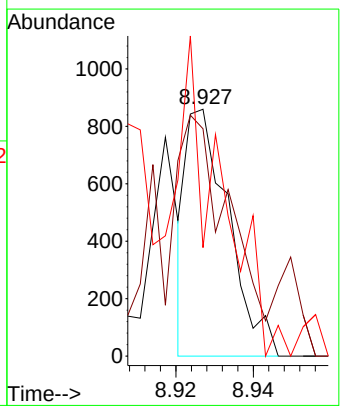


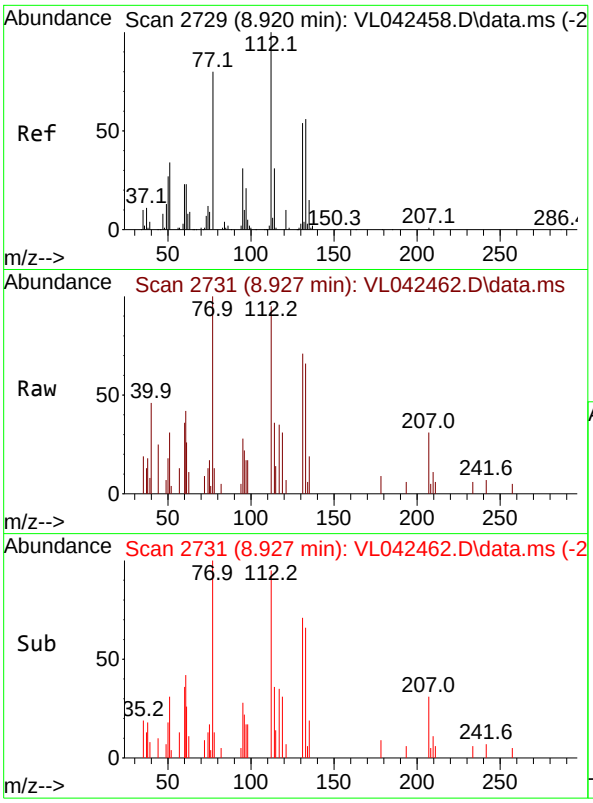


#56
1,1,1,2-Tetrachloroethane
Concen: 0.070 ppbv
RT: 8.927 min Scan# 2731
Delta R.T. 0.003 min
Lab File: VL042462.D
Acq: 01 May 2025 11:12

Tgt Ion:131 Resp: 652

Ion	Ratio	Lower	Upper
131	100		
133	181.4	76.0	114.0#
119	0.0	46.1	69.1#



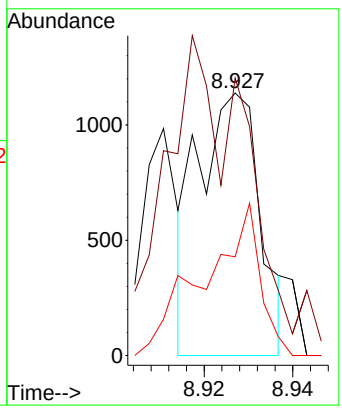


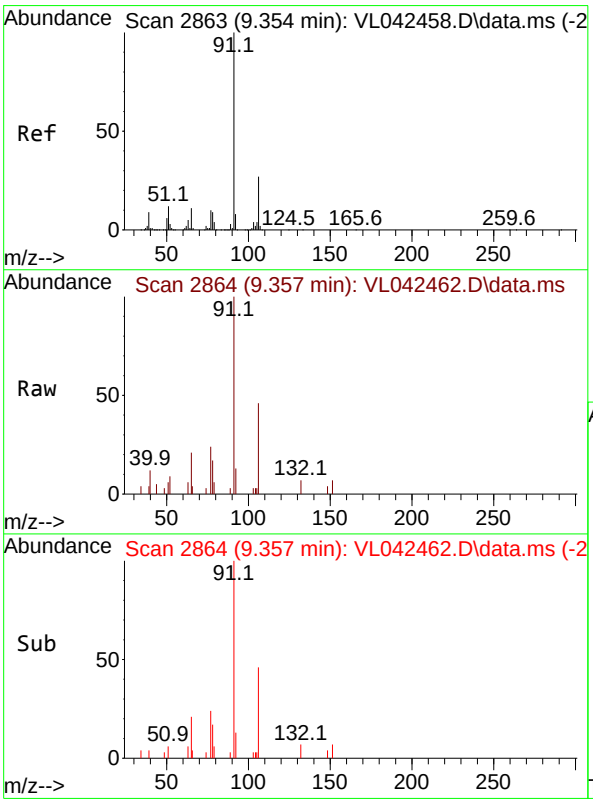
#57
Chlorobenzene
Concen: 0.070 ppbv
RT: 8.927 min Scan# 2
Delta R.T. 0.007 min
Lab File: VL042462.D
Acq: 01 May 2025 11:12

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion:112 Resp: 1103

Ion	Ratio	Lower	Upper
112	100		
77	116.2	65.0	97.4#
114	43.6	27.5	33.7#

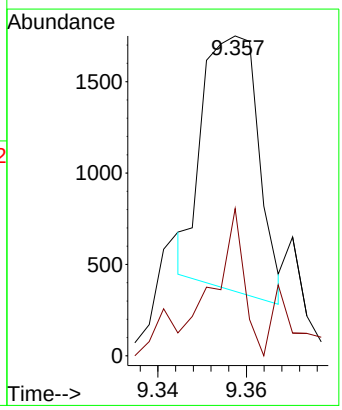


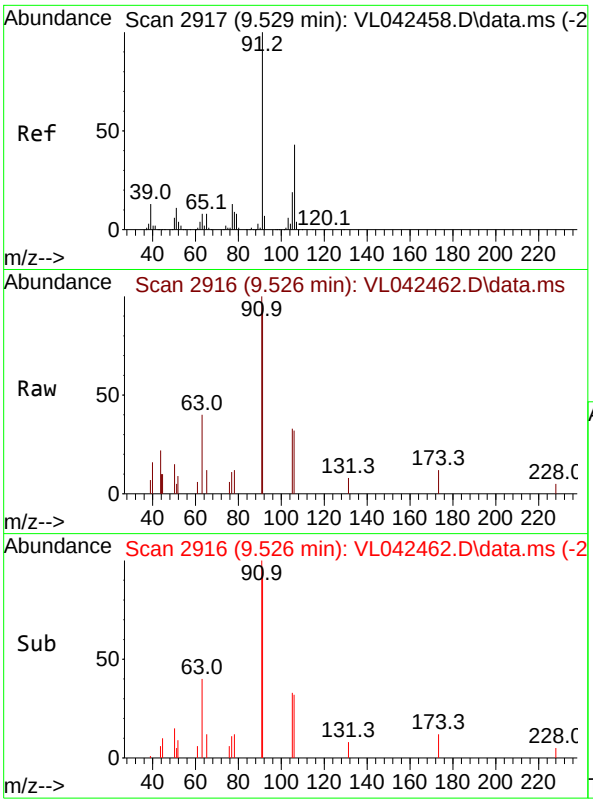


#58
Ethyl Benzene
Concen: 0.046 ppbv
RT: 9.357 min Scan# 2864
Delta R.T. 0.003 min
Lab File: VL042462.D
Acq: 01 May 2025 11:12

Tgt Ion: 91 Resp: 1206

Ion	Ratio	Lower	Upper
91	100		
106	52.2	21.9	32.9#



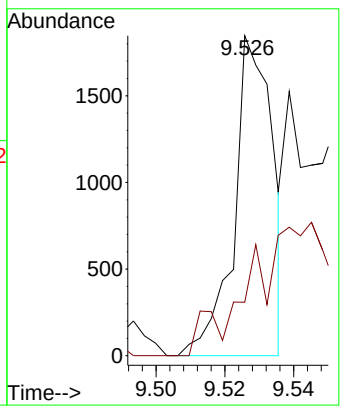


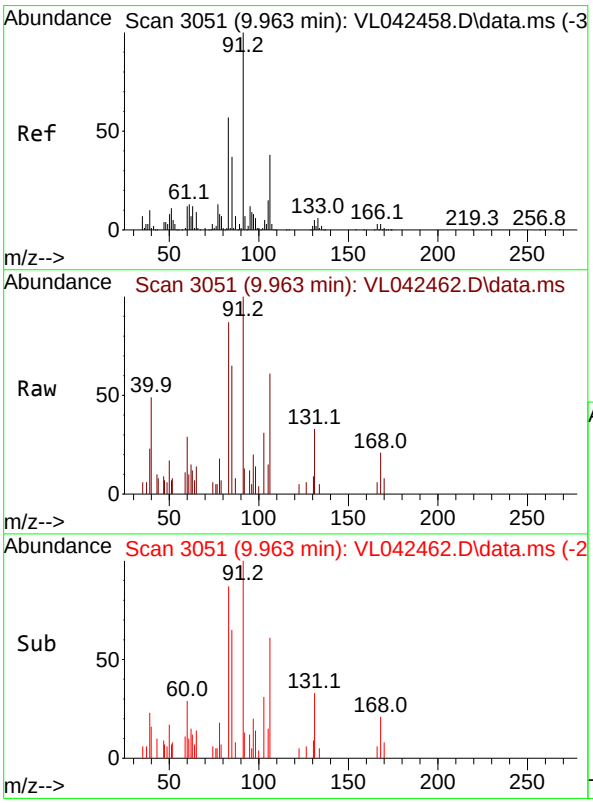
#59
m/p-Xylene
Concen: 0.065 ppbv
RT: 9.526 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL042462.D
Acq: 01 May 2025 11:12

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion: 91 Resp: 1427

Ion	Ratio	Lower	Upper
91	100		
106	0.0	34.2	51.2#

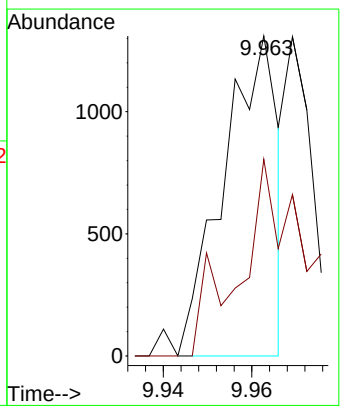


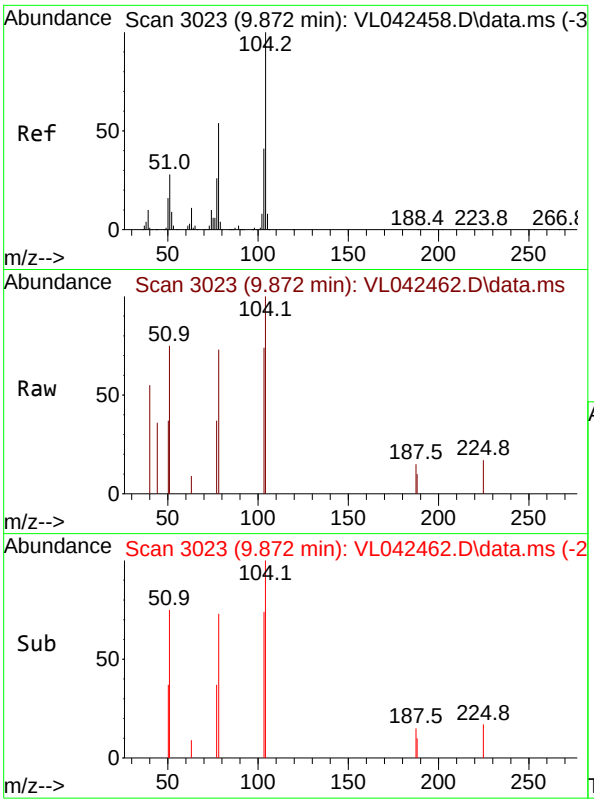


#60
o-Xylene
Concen: 0.050 ppbv
RT: 9.963 min Scan# 3051
Delta R.T. 0.000 min
Lab File: VL042462.D
Acq: 01 May 2025 11:12

Tgt Ion: 91 Resp: 1114

Ion	Ratio	Lower	Upper
91	100		
106	73.5	20.1	60.2#



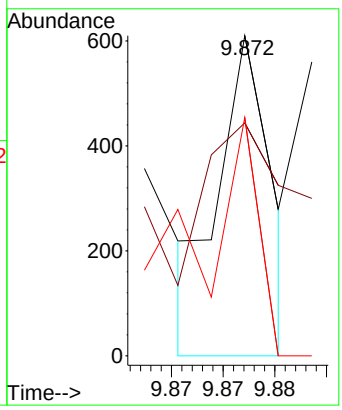


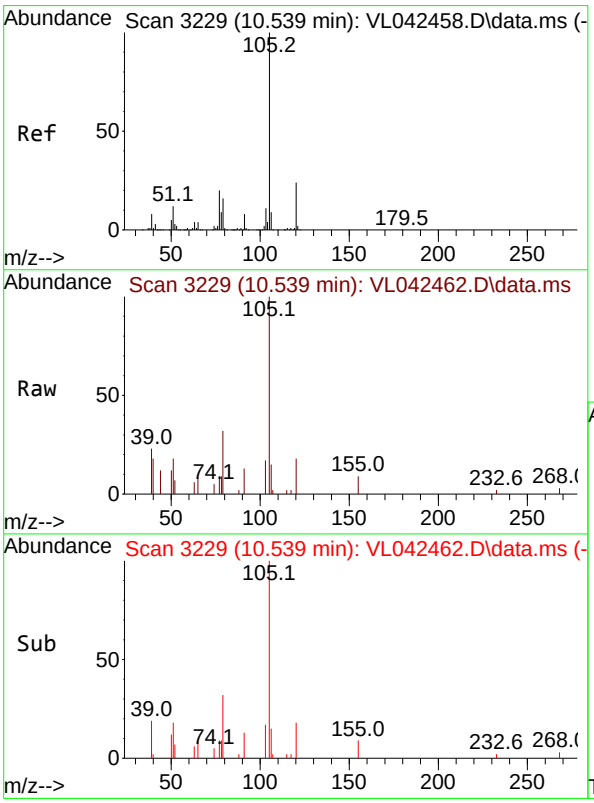
#61
Styrene
Concen: 0.026 ppbv
RT: 9.872 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042462.D
Acq: 01 May 2025 11:12

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion:104 Resp: 215

Ion	Ratio	Lower	Upper
104	100		
78	199.5	46.9	70.3#
103	117.2	36.6	55.0#

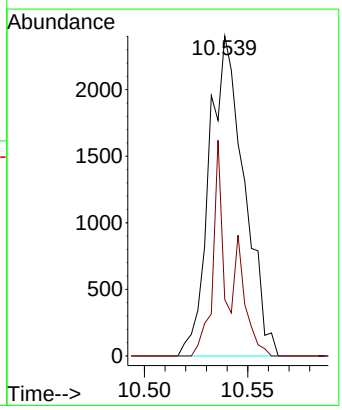


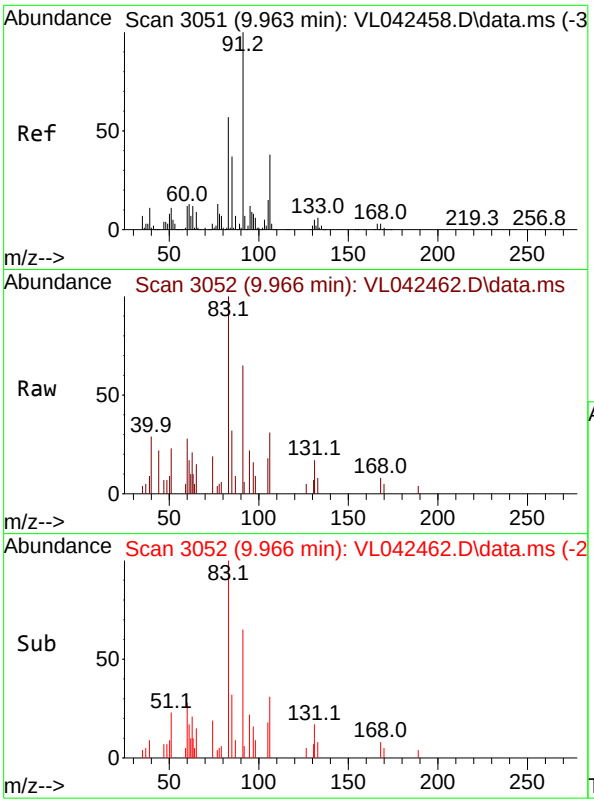


#62
Isopropylbenzene
Concen: 0.088 ppbv
RT: 10.539 min Scan# 3229
Delta R.T. 0.000 min
Lab File: VL042462.D
Acq: 01 May 2025 11:12

Tgt Ion:105 Resp: 2821

Ion	Ratio	Lower	Upper
105	100		
120	32.0	18.8	28.2#



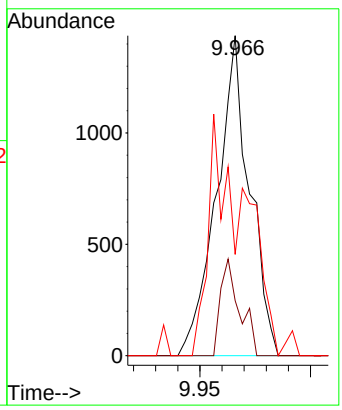


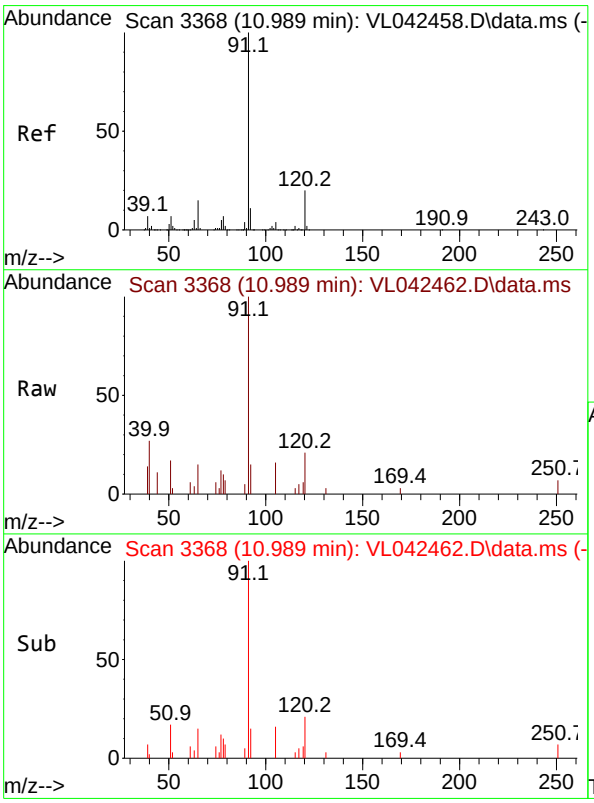
#63
1,1,2,2-Tetrachloroethane
Concen: 0.104 ppbv
RT: 9.966 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042462.D
Acq: 01 May 2025 11:12

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion: 83 Resp: 1490

Ion	Ratio	Lower	Upper
83	100		
131	17.4	4.7	14.1#
85	84.8	32.5	97.4

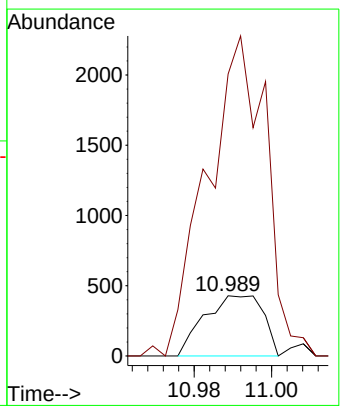


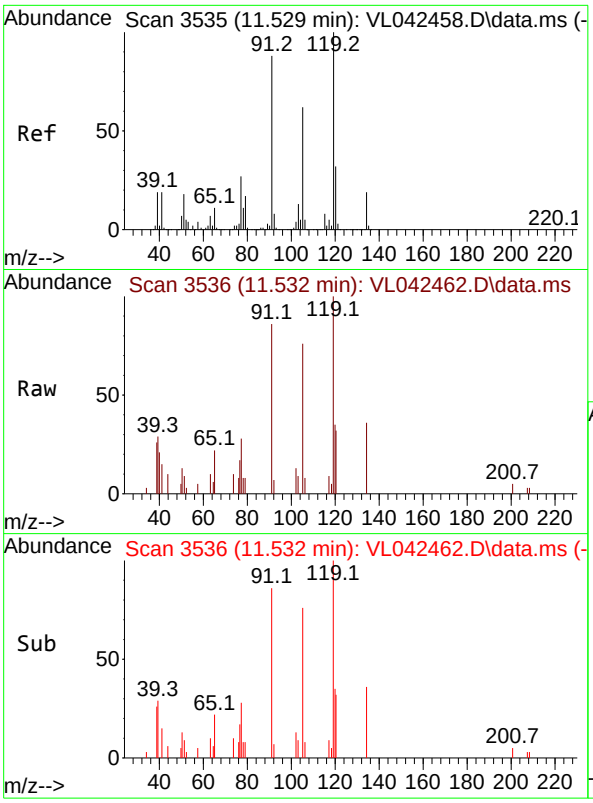


#64
n-propylbenzene
Concen: 0.058 ppbv
RT: 10.989 min Scan# 3368
Delta R.T. 0.000 min
Lab File: VL042462.D
Acq: 01 May 2025 11:12

Tgt Ion:120 Resp: 452

Ion	Ratio	Lower	Upper
120	100		
91	534.1	408.6	612.8



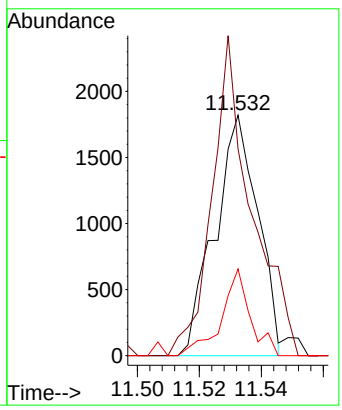


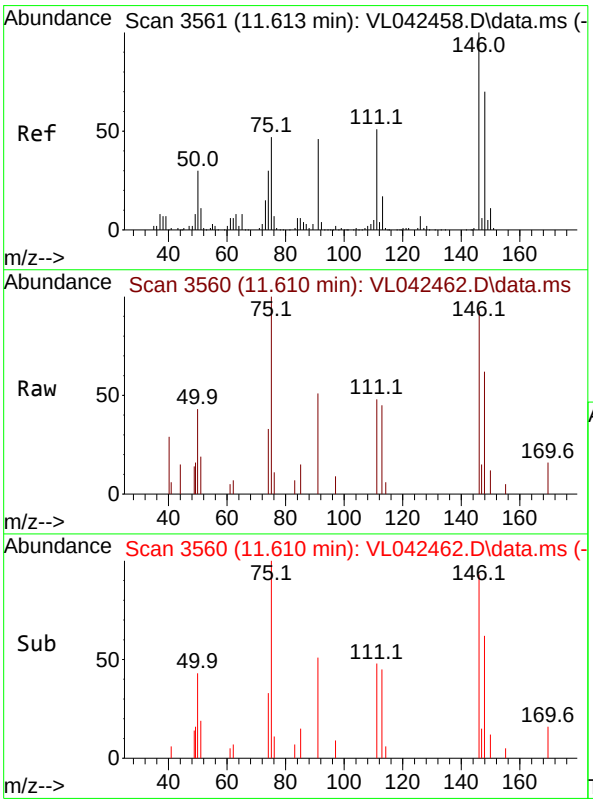
#65
tert-Butylbenzene
Concen: 0.062 ppbv
RT: 11.532 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042462.D
Acq: 01 May 2025 11:12

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion:119 Resp: 1762

Ion	Ratio	Lower	Upper
119	100		
91	121.6	71.6	107.4#
134	25.2	15.0	22.4#

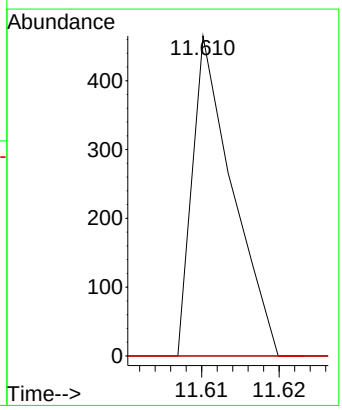


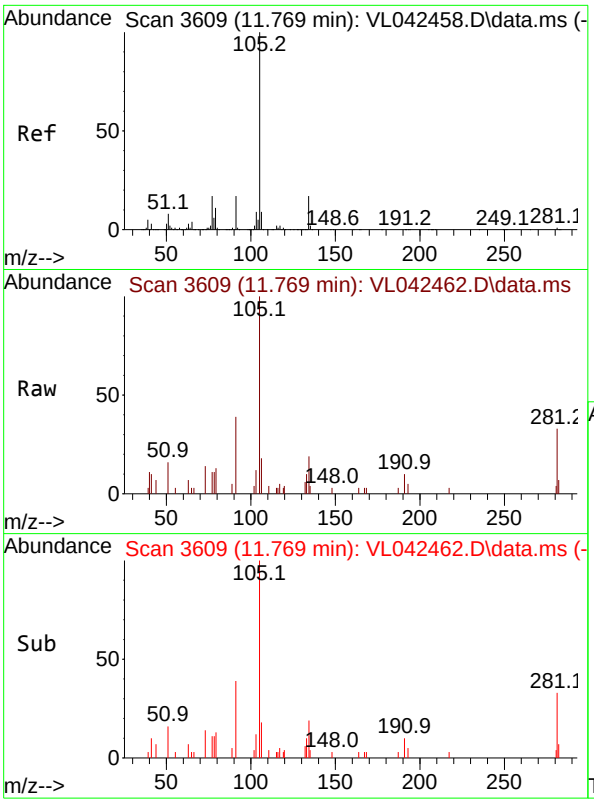


#66
Benzyl Chloride
Concen: 0.051 ppbv
RT: 11.610 min Scan# 3560
Delta R.T. -0.003 min
Lab File: VL042462.D
Acq: 01 May 2025 11:12

Tgt Ion: 91 Resp: 167

Ion	Ratio	Lower	Upper
91	100		
126	0.0	13.3	19.9#
128	0.0	4.2	6.4#



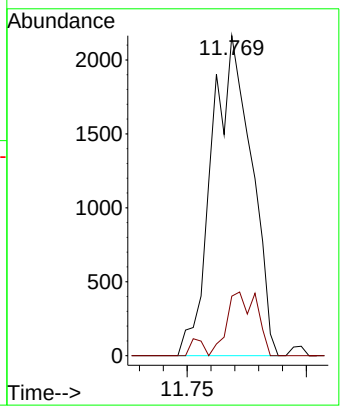


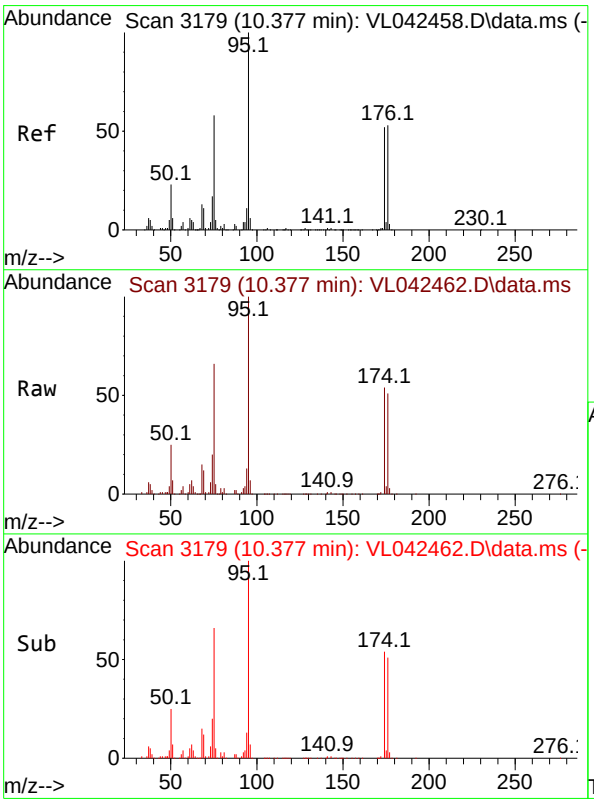
#67
sec-Butylbenzene
Concen: 0.062 ppbv
RT: 11.769 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042462.D
Acq: 01 May 2025 11:12

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion:105 Resp: 2510

Ion	Ratio	Lower	Upper
105	100		
134	16.5	14.1	21.1

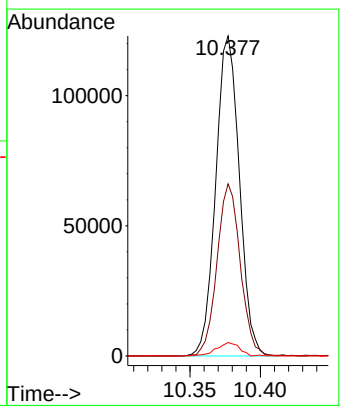


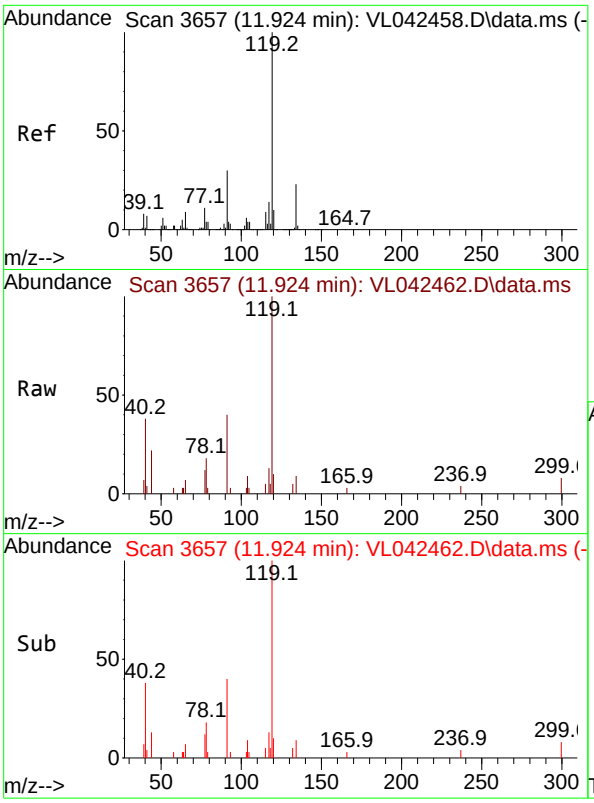


#68
1-Bromo-4-Fluorobenzene
Concen: 9.830 ppbv
RT: 10.377 min Scan# 3179
Delta R.T. 0.000 min
Lab File: VL042462.D
Acq: 01 May 2025 11:12

Tgt Ion: 95 Resp: 143644

Ion	Ratio	Lower	Upper
95	100		
174	53.0	42.7	64.1
175	4.1	3.6	5.4



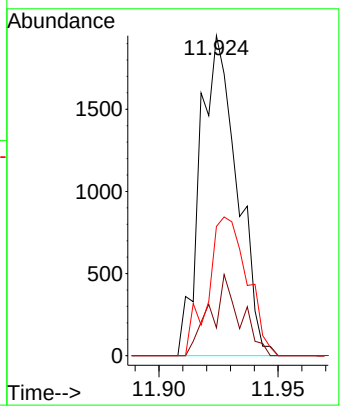


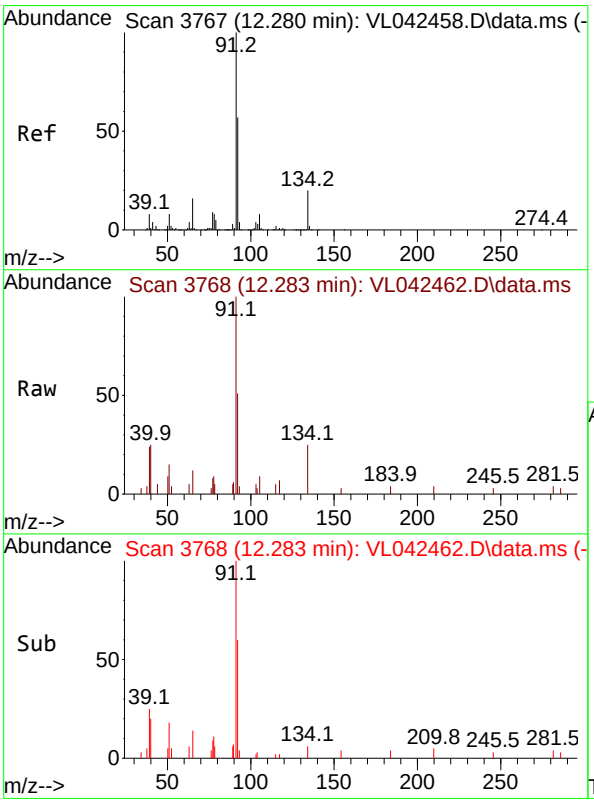
#69
p-Isopropyltoluene
Concen: 0.062 ppbv
RT: 11.924 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042462.D
Acq: 01 May 2025 11:12

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion:119 Resp: 2112

Ion	Ratio	Lower	Upper
119	100		
134	20.5	19.0	28.4
91	45.7	25.5	38.3#

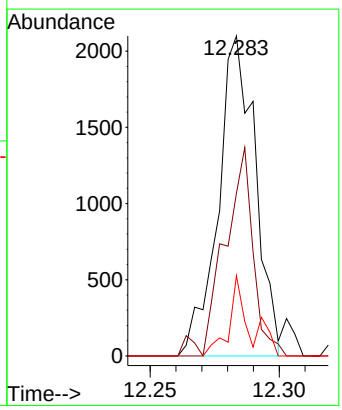


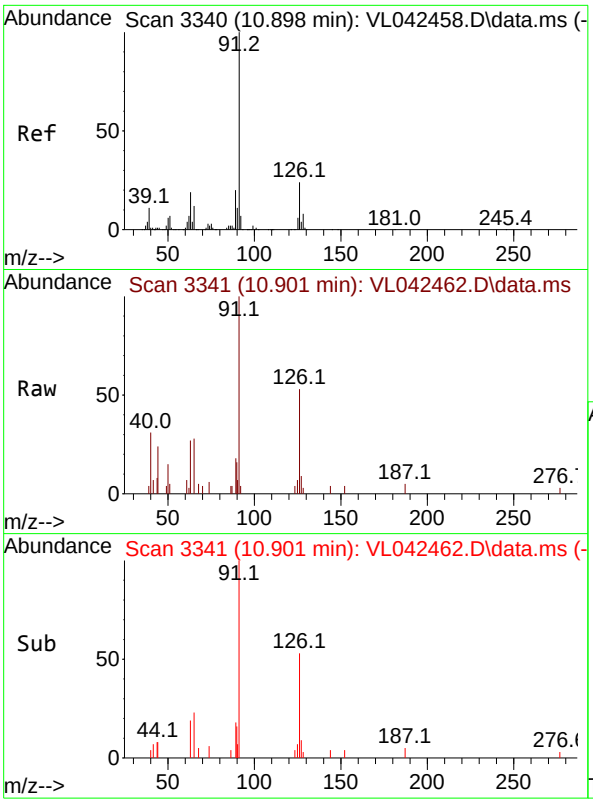


#70
n-Butylbenzene
Concen: 0.060 ppbv
RT: 12.283 min Scan# 3768
Delta R.T. 0.003 min
Lab File: VL042462.D
Acq: 01 May 2025 11:12

Tgt Ion: 91 Resp: 2098

Ion	Ratio	Lower	Upper
91	100		
92	51.0	44.0	66.0
134	13.9	16.8	25.2#



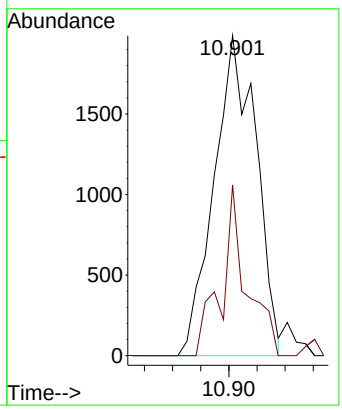


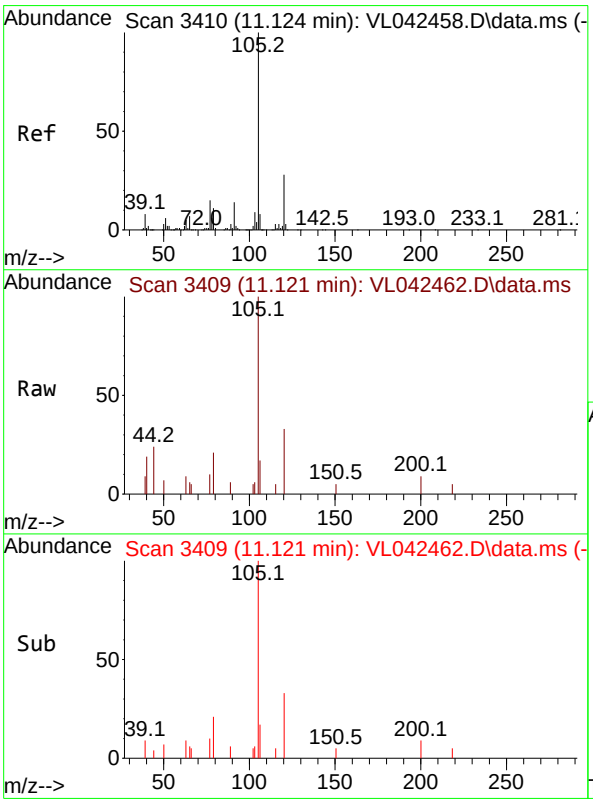
#71
2-Chlorotoluene
Concen: 0.083 ppbv
RT: 10.901 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042462.D
Acq: 01 May 2025 11:12

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion: 91 Resp: 2065

Ion	Ratio	Lower	Upper
91	100		
126	33.1	10.6	42.2

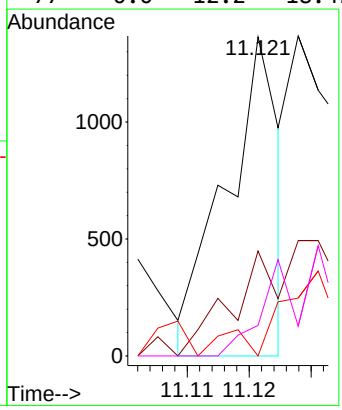


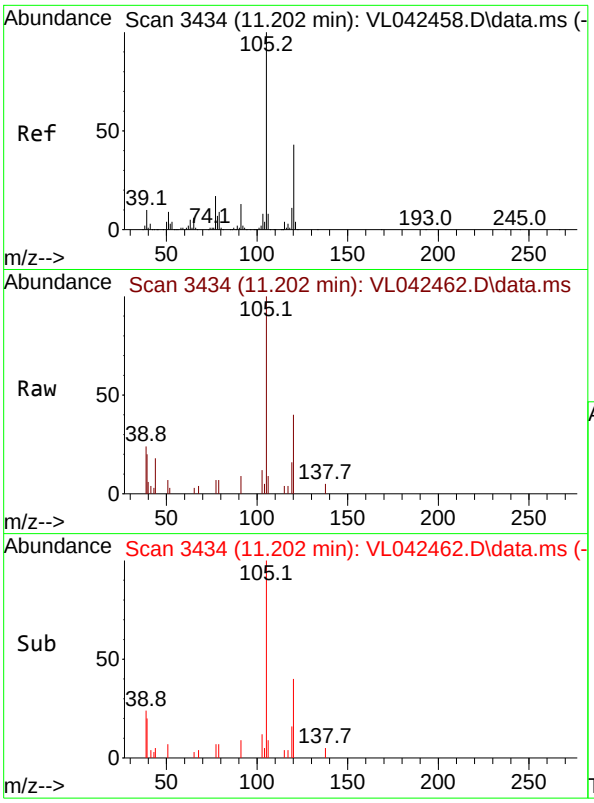


#72
4-Ethyltoluene
Concen: 0.031 ppbv
RT: 11.121 min Scan# 3409
Delta R.T. -0.003 min
Lab File: VL042462.D
Acq: 01 May 2025 11:12

Tgt Ion:105 Resp: 813

Ion	Ratio	Lower	Upper
105	100		
120	0.0	22.0	33.0#
91	0.0	11.2	16.8#
77	0.0	12.2	18.4#



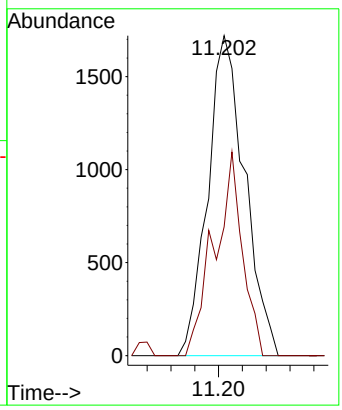


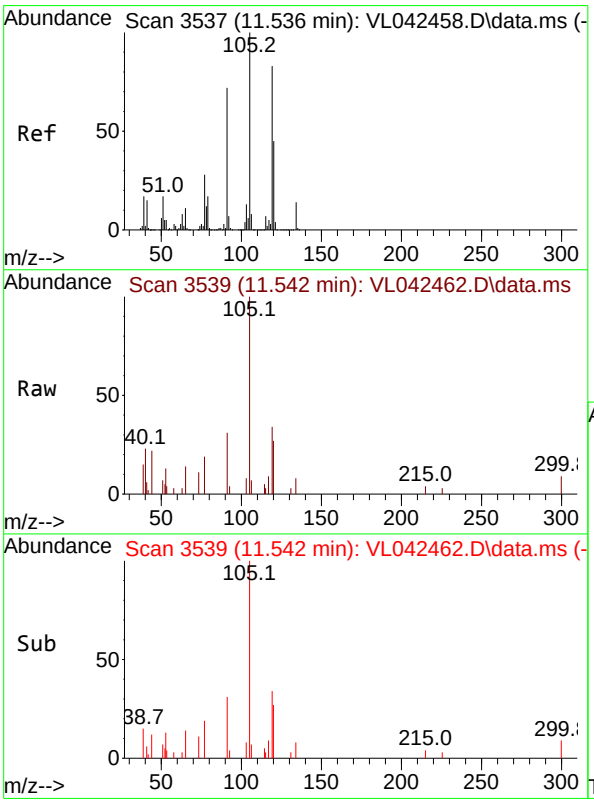
#73
1,3,5-Trimethylbenzene
Concen: 0.081 ppbv
RT: 11.202 min Scan# 34
Delta R.T. 0.000 min
Lab File: VL042462.D
Acq: 01 May 2025 11:12

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion:105 Resp: 1853

Ion	Ratio	Lower	Upper
105	100		
120	40.2	34.4	51.6

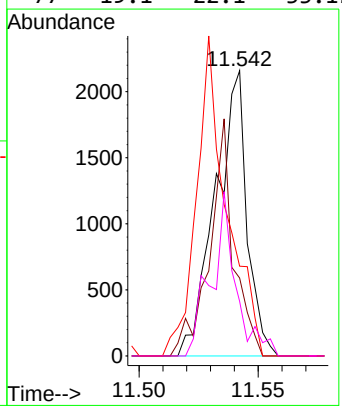


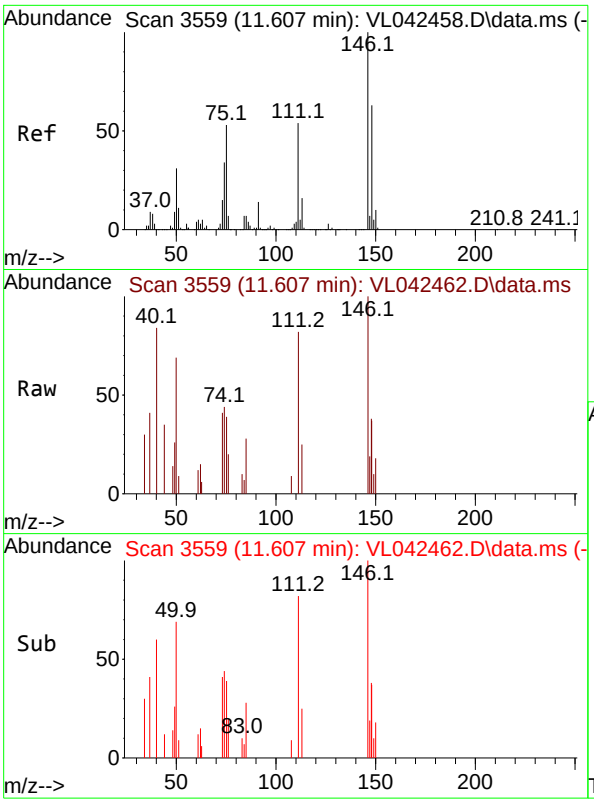


#74
1,2,4-Trimethylbenzene
Concen: 0.071 ppbv
RT: 11.542 min Scan# 3539
Delta R.T. 0.007 min
Lab File: VL042462.D
Acq: 01 May 2025 11:12

Tgt Ion:105 Resp: 1982

Ion	Ratio	Lower	Upper
105	100		
120	27.3	36.1	54.1#
91	31.4	57.6	86.4#
77	19.1	22.1	33.1#



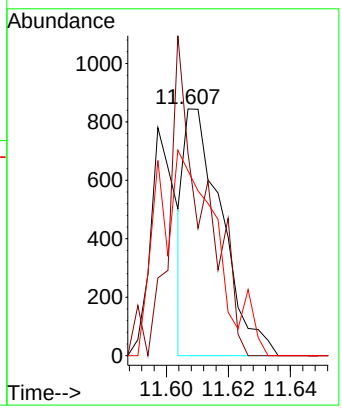


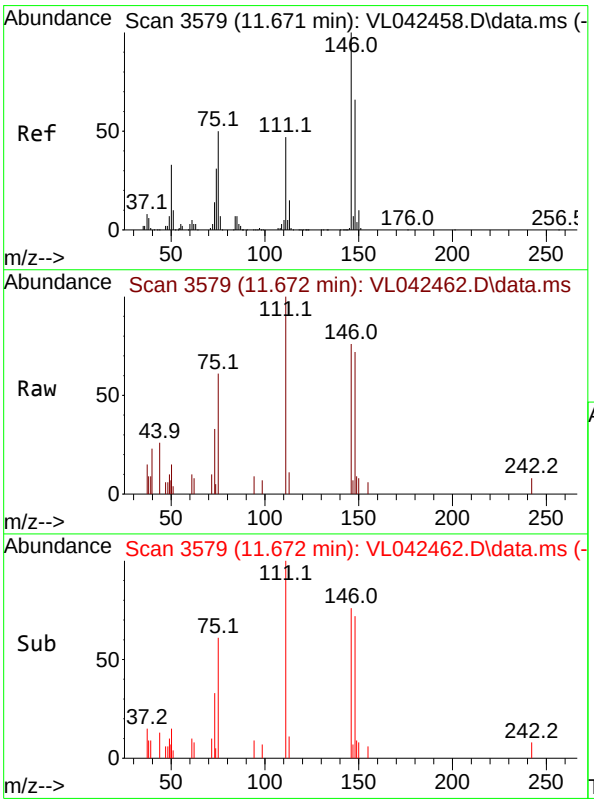
#75
1,3-Dichlorobenzene
Concen: 0.046 ppbv
RT: 11.607 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042462.D
Acq: 01 May 2025 11:12

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion:146 Resp: 709

Ion	Ratio	Lower	Upper
146	100		
111	120.2	26.1	78.3#
148	128.9	32.0	96.0#

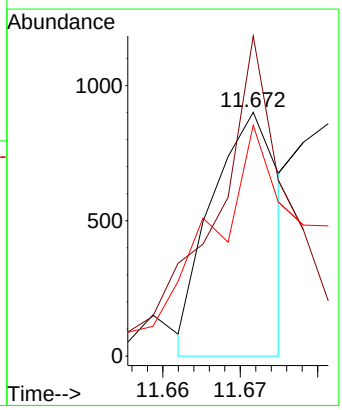


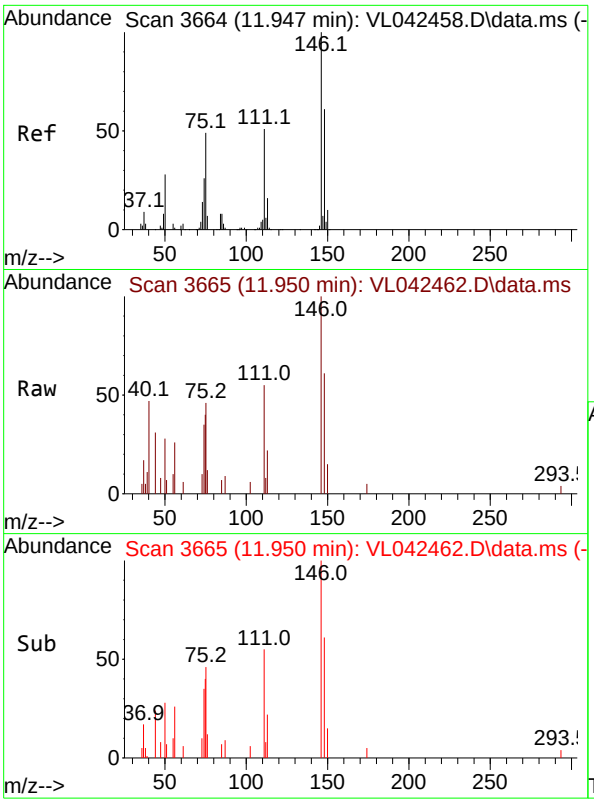


#76
1,4-Dichlorobenzene
Concen: 0.037 ppbv
RT: 11.672 min Scan# 3579
Delta R.T. 0.000 min
Lab File: VL042462.D
Acq: 01 May 2025 11:12

Tgt Ion:146 Resp: 546

Ion	Ratio	Lower	Upper
146	100		
111	148.2	24.4	73.2#
148	148.5	32.0	96.2#



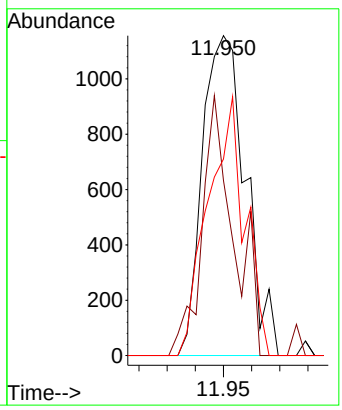


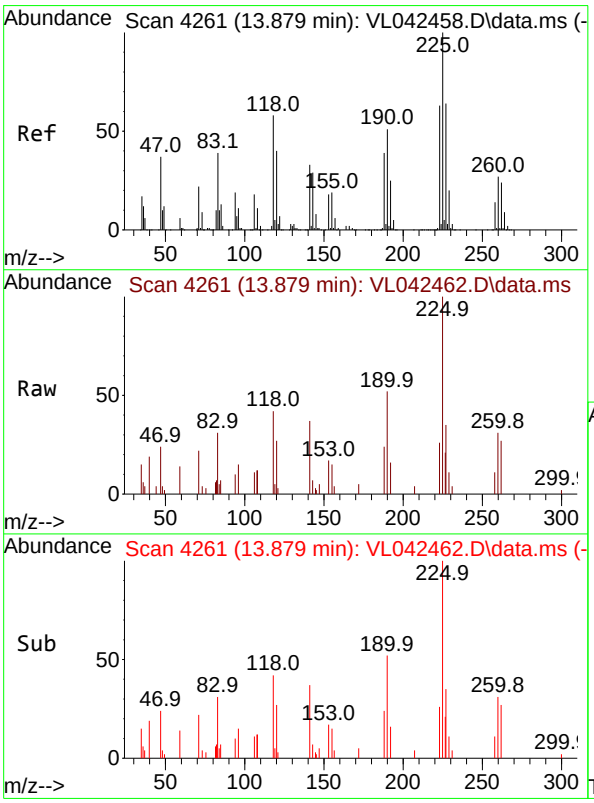
#77
1,2-Dichlorobenzene
Concen: 0.081 ppbv
RT: 11.950 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042462.D
Acq: 01 May 2025 11:12

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion:146 Resp: 1226

Ion	Ratio	Lower	Upper
146	100		
111	59.5	26.5	79.5
148	69.4	31.5	94.5

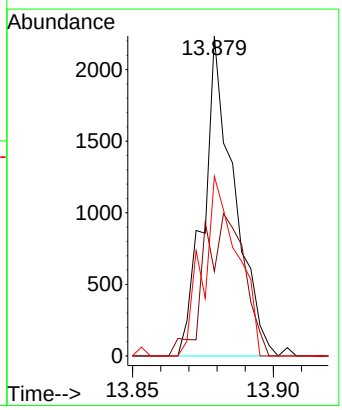


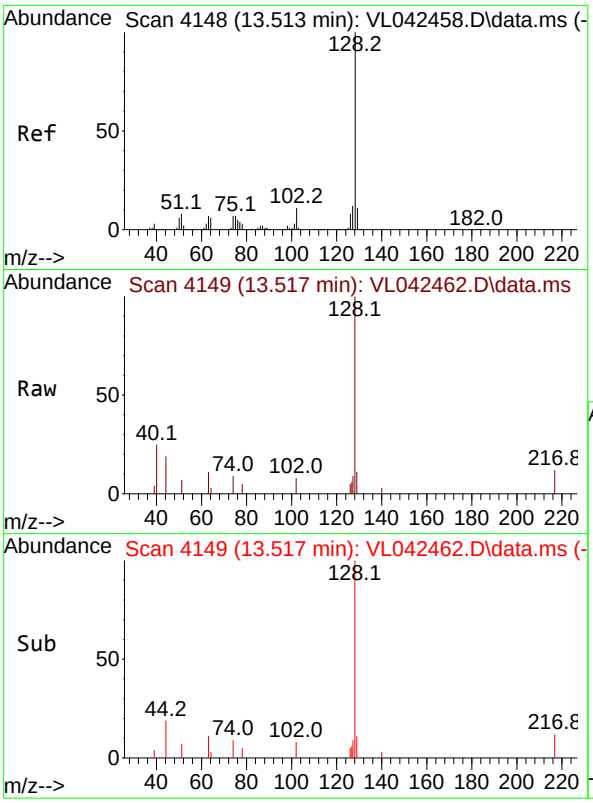


#78
Hexachloro-1,3-Butadiene
Concen: 0.112 ppbv
RT: 13.879 min Scan# 4261
Delta R.T. 0.000 min
Lab File: VL042462.D
Acq: 01 May 2025 11:12

Tgt Ion:225 Resp: 1683

Ion	Ratio	Lower	Upper
225	100		
223	58.6	50.2	75.4
227	63.1	51.2	76.8



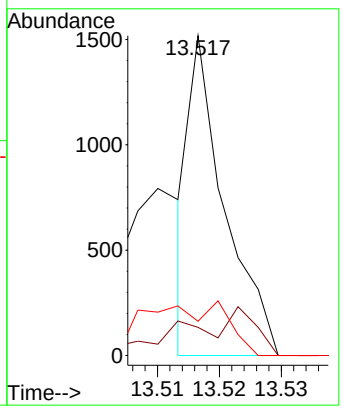


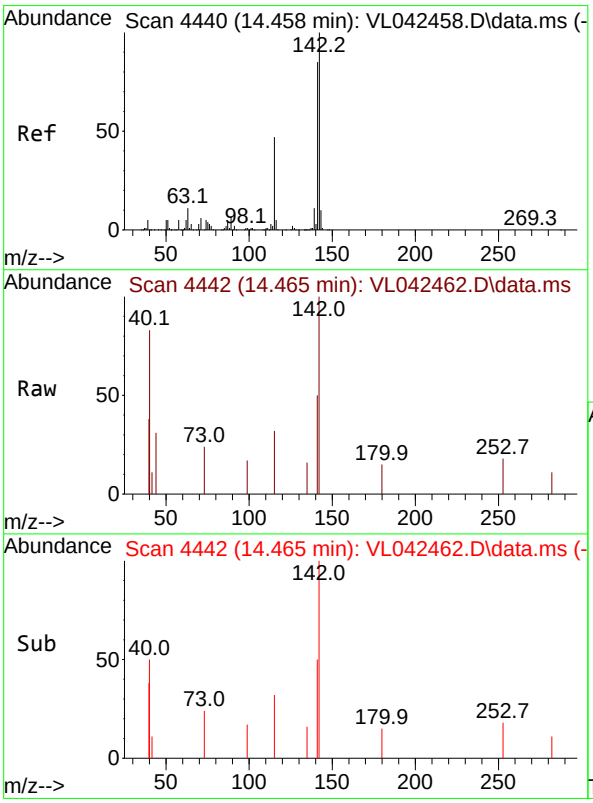
#79
Naphthalene
Concen: 0.026 ppbv
RT: 13.517 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL042462.D
Acq: 01 May 2025 11:12

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion:128 Resp: 601

Ion	Ratio	Lower	Upper
128	100		
127	8.8	9.7	14.5#
129	10.7	8.6	13.0

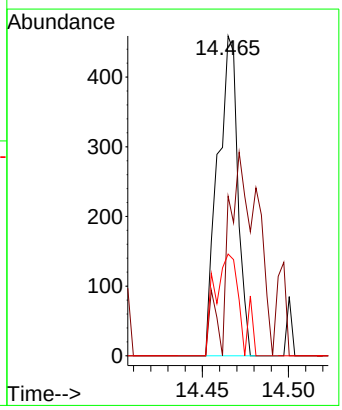


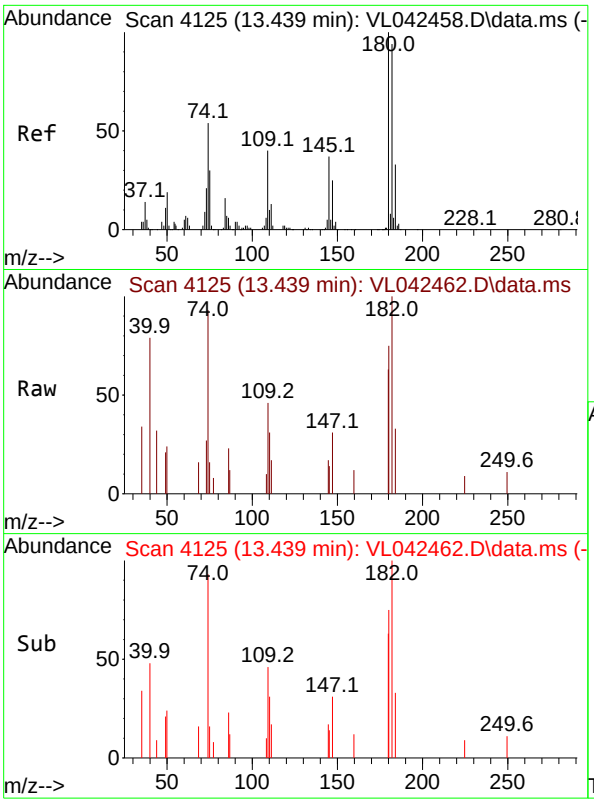


#80
Naphthalene,2-methyl-
Concen: 0.021 ppbv
RT: 14.465 min Scan# 4442
Delta R.T. 0.007 min
Lab File: VL042462.D
Acq: 01 May 2025 11:12

Tgt Ion:142 Resp: 371

Ion	Ratio	Lower	Upper
142	100		
141	107.0	67.4	101.0#
115	40.2	36.9	55.3



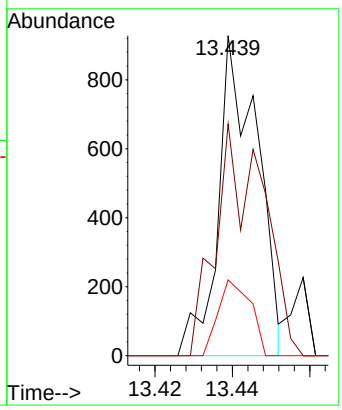


#81
1,2,4-Trichlorobenzene
Concen: 0.052 ppbv
RT: 13.439 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042462.D
Acq: 01 May 2025 11:12

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion:180 Resp: 652

Ion	Ratio	Lower	Upper
180	100		
182	88.2	74.6	111.8
184	19.6	24.9	37.3#



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050125\
Data File : VL042465.D
Acq On : 01 May 2025 12:49
Operator : SY/MD
Sample : VSTDICC015
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Quant Time: May 02 01:45:25 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri May 02 01:37:48 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.787	49	64314	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	178877	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	157673	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	151837	10.387	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 103.900%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	158069	14.852	ppbv	99
3) Chlorodifluoromethane	1.476	51	154556	13.735	ppbv	100
4) Chloromethane	1.535	50	64267	14.447	ppbv	95
5) Vinyl Chloride	1.580	62	60873	13.592	ppbv	98
6) Bromomethane	1.667	94	31246	14.766	ppbv	87
7) Chloroethane	1.703	64	25181	15.227	ppbv	92
8) Dichlorotetrafluoroethane	1.554	85	131995	15.044	ppbv	99
9) Propene	1.486	41	49647	13.489	ppbv	99
10) Heptane	4.982	43	142235	14.898	ppbv	100
11) Trichlorofluoromethane	1.878	101	152655	16.082	ppbv	100
12) 1,1,2-Trichlorotrifluo...	2.140	101	115855	14.775	ppbv	96
13) Ethanol	1.722	45	8090	10.832	ppbv	98
14) Bromoethene	1.781	108	44928	15.519	ppbv	96
15) Acetone	1.836	43	141306	12.036	ppbv	99
16) 1,3-Butadiene	1.609	39	72455	13.992	ppbv	98
17) tert-Butyl alcohol	2.043	59	144935	14.012	ppbv	99
18) 1,1-Dichloroethene	2.033	96	52813	14.424	ppbv	98
19) Isopropyl Alcohol	1.887	45	86000	13.235	ppbv #	1
20) Methylene Chloride	2.062	84	46063	13.050	ppbv	94
21) Allyl Chloride	2.098	41	112451	14.893	ppbv	99
22) trans-1,2-Dichloroethene	2.341	96	62153	14.534	ppbv	100
23) Vinyl Acetate	2.464	43	169418	15.489	ppbv	99
24) 1,1-Dichloroethane	2.409	63	127567	14.622	ppbv	97
25) Ethyl Acetate	2.836	43	269372	14.329	ppbv	100
26) Hexane	2.826	57	119552	14.598	ppbv	97
27) Carbon Disulfide	2.150	76	150258	15.722	ppbv #	92
28) Methyl tert-Butyl Ether	2.441	73	71341	14.500	ppbv	99
29) Chloroform	2.849	83	221976	14.464	ppbv	99
30) Cyclohexane	3.859	84	101146	14.771	ppbv	99
31) cis-1,2-Dichloroethene	2.723	61	133735	13.997	ppbv	93
32) 1,1,1-Trichloroethane	3.370	97	234752	14.099	ppbv	99
34) 2-Butanone	2.557	43	174521	13.488	ppbv	97
35) Carbon Tetrachloride	3.765	117	242144	15.566	ppbv	99
36) Benzene	3.658	78	239352	14.179	ppbv	98
37) 1,2-Dichloroethane	3.221	62	190179	14.618	ppbv	98
38) Trichloroethene	4.551	130	95257	14.798	ppbv	94
39) 1,2-Dichloropropane	4.312	63	84414	13.349	ppbv	93
40) 1,4-Dioxane	4.584	88	38551	13.115	ppbv #	100
41) Tetrahydrofuran	3.056	42	86296	14.063	ppbv	98
42) Bromodichloromethane	4.493	83	242556	15.259	ppbv	99
43) Methyl Methacrylate	4.885	69	98279	15.639	ppbv	100
44) 2,2,4-Trimethylpentane	4.642	57	401920	14.734	ppbv	99
45) t-1,3-Dichloropropene	6.419	75	136762	16.529	ppbv	92

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050125\
Data File : VL042465.D
Acq On : 01 May 2025 12:49
Operator : SY/MD
Sample : VSTDICC015
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Quant Time: May 02 01:45:25 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri May 02 01:37:48 2025
Response via : Initial Calibration

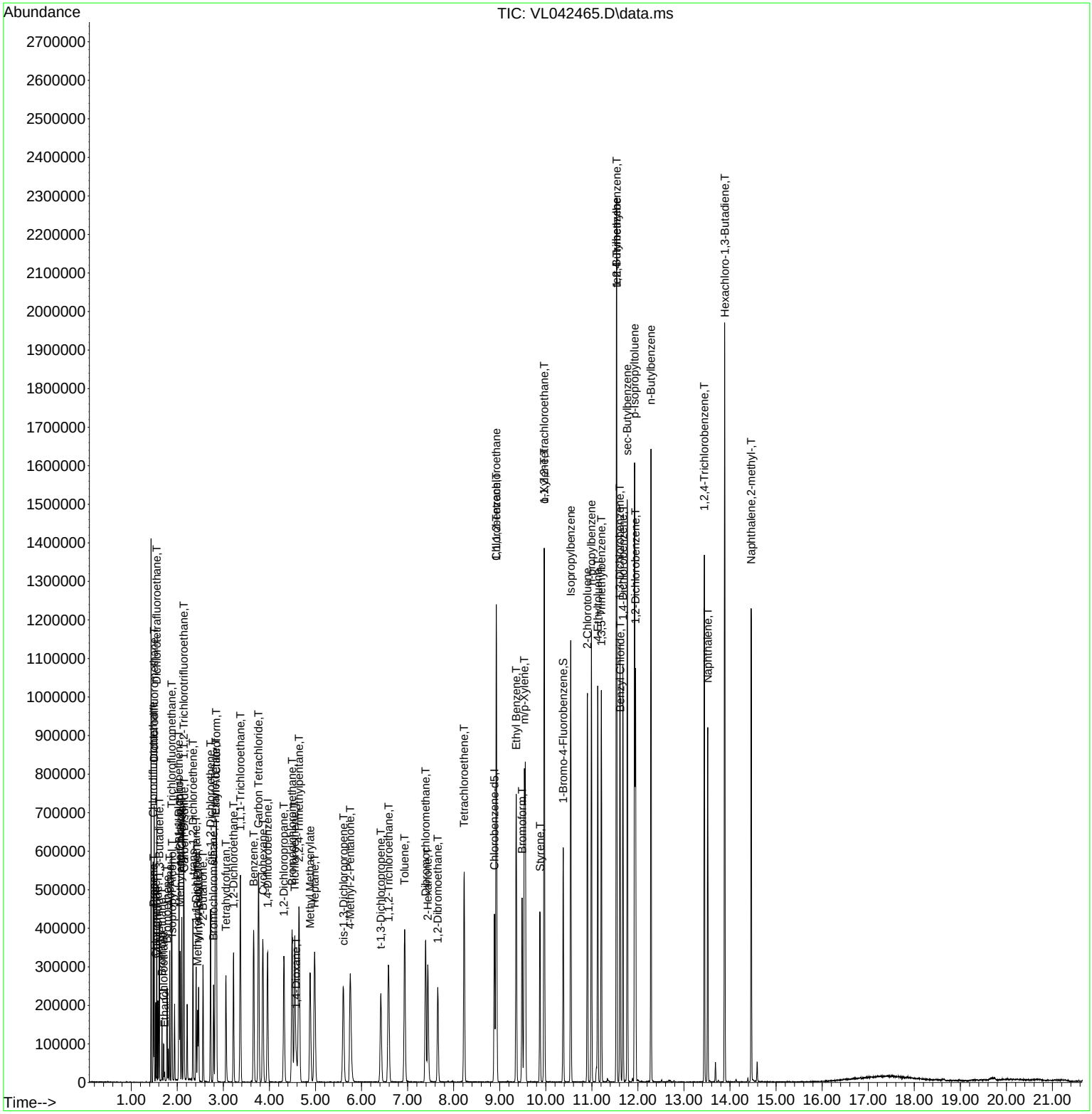
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) cis-1,3-Dichloropropene	5.610	75	64459	6.562	ppbv		98
47) 1,1,2-Trichloroethane	6.587	97	99496	14.356	ppbv		93
48) Dibromochloromethane	7.393	129	180970	15.468	ppbv		98
49) Bromoform	9.487	173	152440	15.535	ppbv		99
50) 4-Methyl-2-Pentanone	5.755	43	237985	14.550	ppbv		97
51) 2-Hexanone	7.438	43	197423	15.071	ppbv		99
52) Tetrachloroethene	8.228	164	85271	13.272	ppbv		90
53) Toluene	6.937	91	281731	15.768	ppbv		100
54) 1,2-Dibromoethane	7.655	107	154739	14.523	ppbv		94
56) 1,1,1,2-Tetrachloroethane	8.927	131	133410	14.326	ppbv		98
57) Chlorobenzene	8.927	112	218370	13.783	ppbv		99
58) Ethyl Benzene	9.358	91	414805	15.743	ppbv		98
59) m/p-Xylene	9.536	91	378951	17.153	ppbv	#	45
60) o-Xylene	9.966	91	350328	15.863	ppbv		100
61) Styrene	9.876	104	137720	16.686	ppbv		96
62) Isopropylbenzene	10.542	105	498619	15.629	ppbv		100
63) 1,1,2,2-Tetrachloroethane	9.966	83	209726	14.635	ppbv		99
64) n-propylbenzene	10.992	120	122452	15.759	ppbv		97
65) tert-Butylbenzene	11.536	119	443042	15.562	ppbv		97
66) Benzyl Chloride	11.617	91	60376	18.348	ppbv		97
67) sec-Butylbenzene	11.769	105	632600	15.636	ppbv		100
69) p-Isopropyltoluene	11.928	119	539860	15.837	ppbv		99
70) n-Butylbenzene	12.284	91	566780	16.084	ppbv		99
71) 2-Chlorotoluene	10.905	91	394227	15.755	ppbv		100
72) 4-Ethyltoluene	11.128	105	423746	16.250	ppbv		99
73) 1,3,5-Trimethylbenzene	11.206	105	362951	15.826	ppbv		96
74) 1,2,4-Trimethylbenzene	11.539	105	407416	14.683	ppbv		96
75) 1,3-Dichlorobenzene	11.610	146	225215	14.579	ppbv		98
76) 1,4-Dichlorobenzene	11.675	146	224505	15.357	ppbv		99
77) 1,2-Dichlorobenzene	11.950	146	216147	14.295	ppbv		99
78) Hexachloro-1,3-Butadiene	13.886	225	198112	13.121	ppbv		99
79) Naphthalene	13.517	128	392900	16.888	ppbv		98
80) Naphthalene,2-methyl-	14.459	142	316493	18.232	ppbv		99
81) 1,2,4-Trichlorobenzene	13.442	180	195942	15.728	ppbv		97

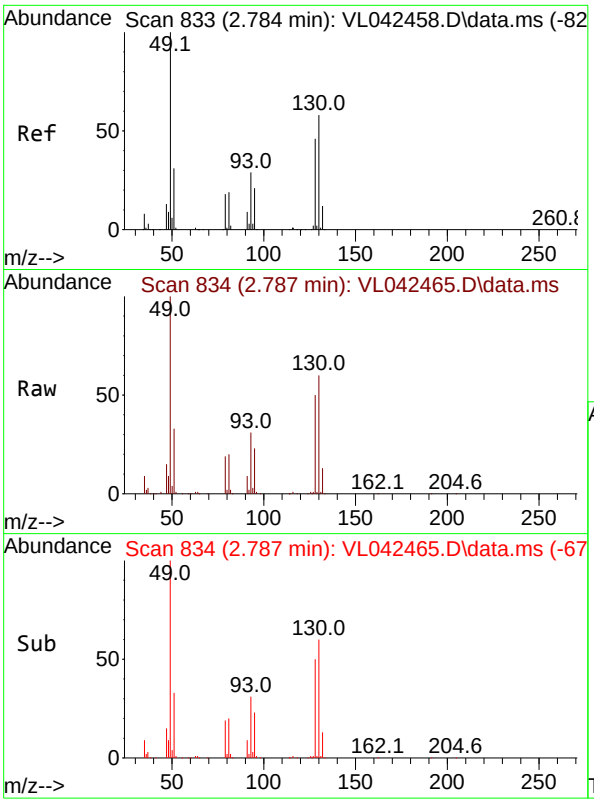
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050125\
Data File : VL042465.D
Acq On : 01 May 2025 12:49
Operator : SY/MD
Sample : VSTDICC015
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Quant Time: May 02 01:45:25 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri May 02 01:37:48 2025
Response via : Initial Calibration



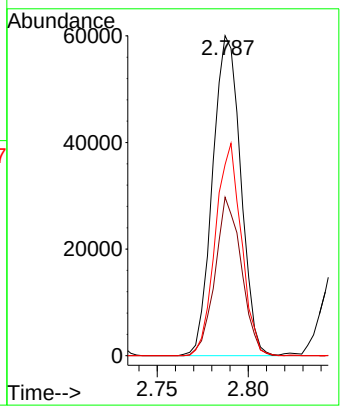


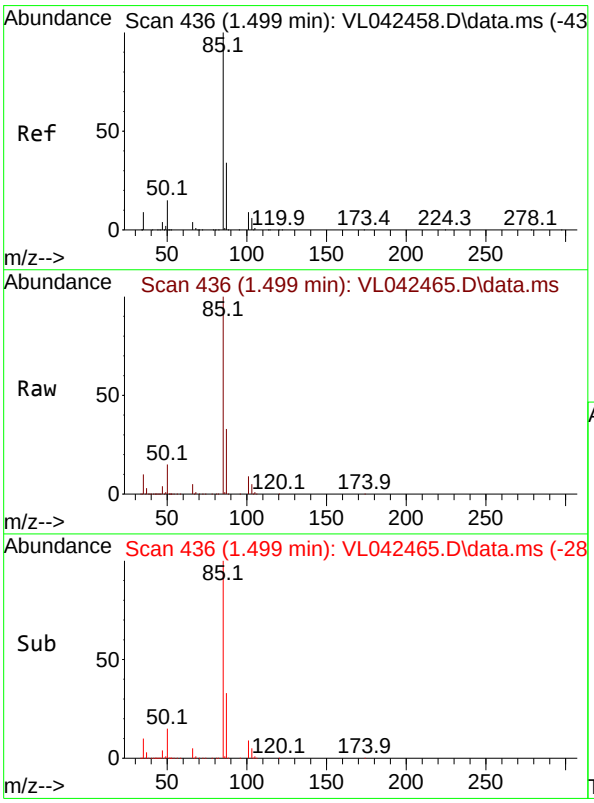
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042465.D
Acq: 01 May 2025 12:49

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 49 Resp: 64314

Ion	Ratio	Lower	Upper
49	100		
128	46.3	23.3	69.9
130	61.4	29.5	88.6

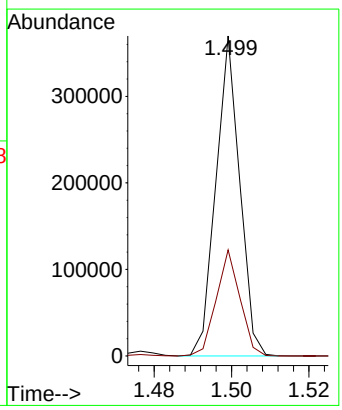


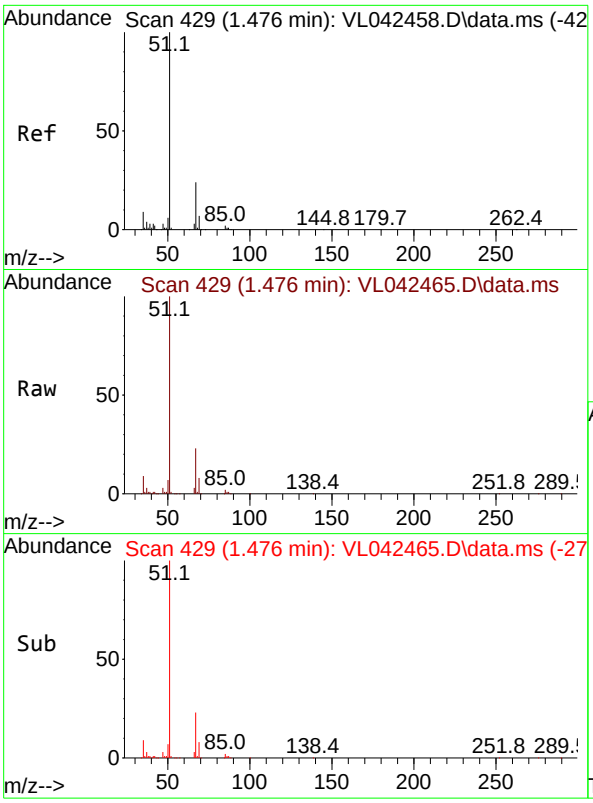


#2
Dichlorodifluoromethane
Concen: 14.852 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.000 min
Lab File: VL042465.D
Acq: 01 May 2025 12:49

Tgt Ion: 85 Resp: 158069

Ion	Ratio	Lower	Upper
85	100		
87	33.2	26.9	40.3



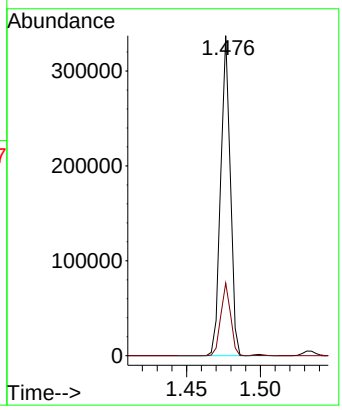


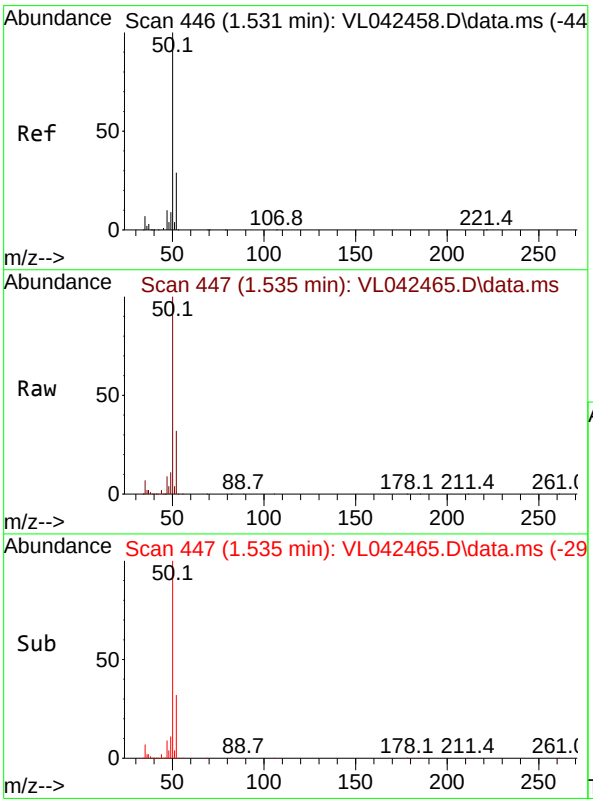
#3
Chlorodifluoromethane
Concen: 13.735 ppbv
RT: 1.476 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042465.D
Acq: 01 May 2025 12:49

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 51 Resp: 154556

Ion	Ratio	Lower	Upper
51	100		
67	23.1	18.4	27.6

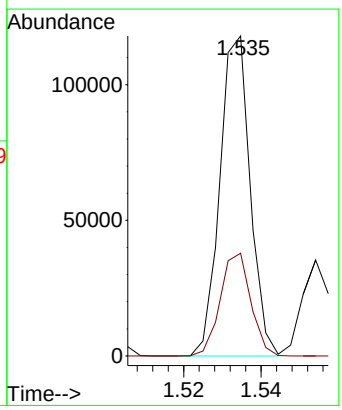


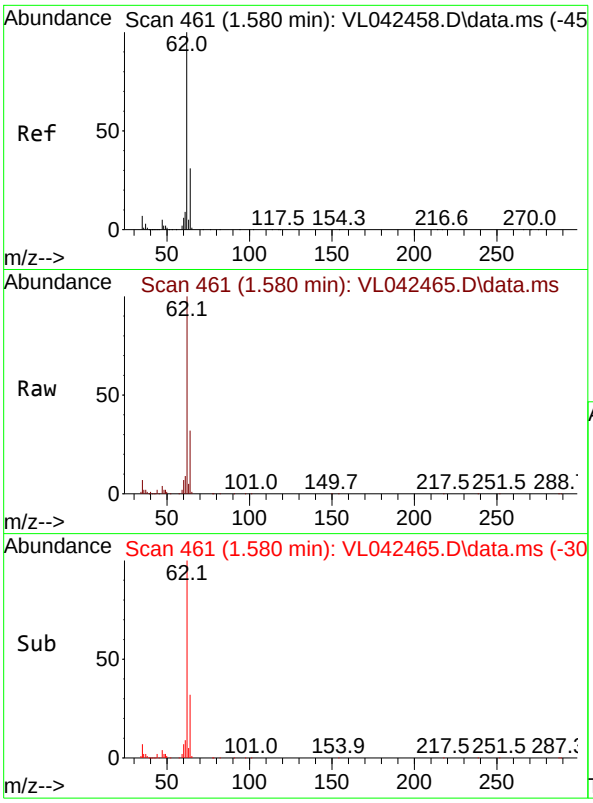


#4
Chloromethane
Concen: 14.447 ppbv
RT: 1.535 min Scan# 447
Delta R.T. 0.004 min
Lab File: VL042465.D
Acq: 01 May 2025 12:49

Tgt Ion: 50 Resp: 64267

Ion	Ratio	Lower	Upper
50	100		
52	32.1	23.5	35.3



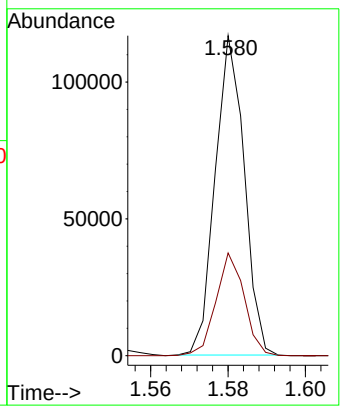


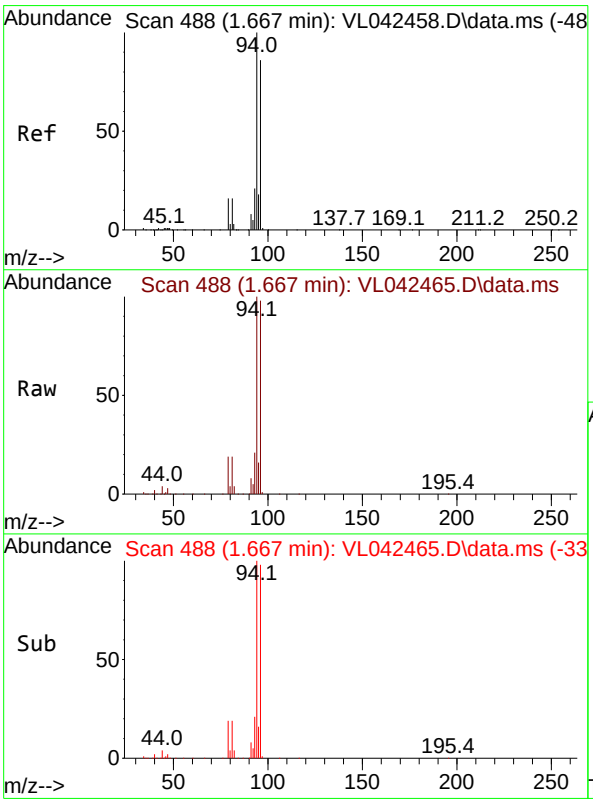
#5
Vinyl Chloride
Concen: 13.592 ppbv
RT: 1.580 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042465.D
Acq: 01 May 2025 12:49

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 62 Resp: 60873

Ion	Ratio	Lower	Upper
62	100		
64	32.1	24.9	37.3

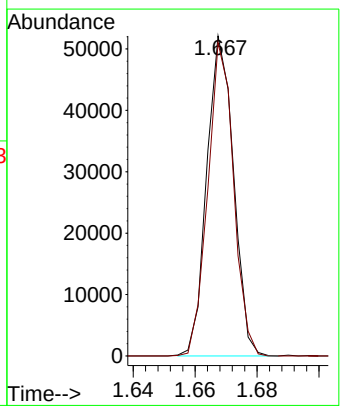


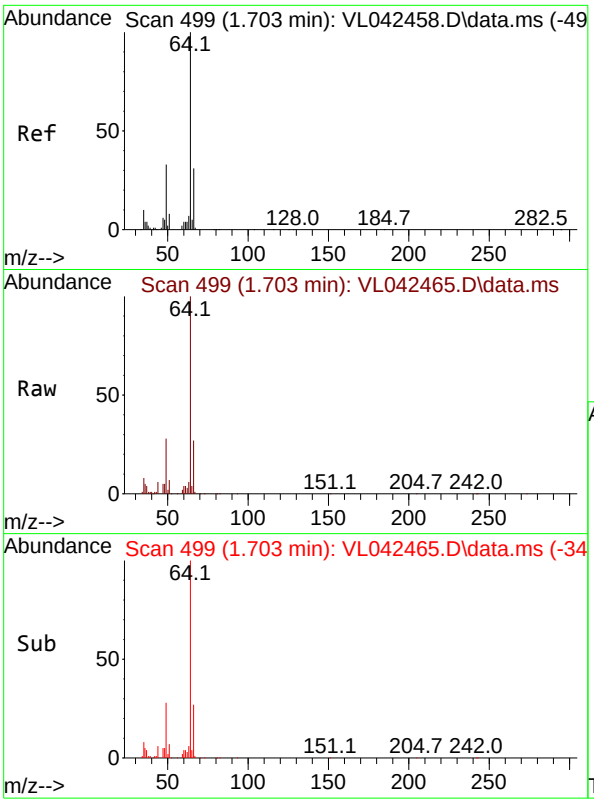


#6
Bromomethane
Concen: 14.766 ppbv
RT: 1.667 min Scan# 488
Delta R.T. 0.000 min
Lab File: VL042465.D
Acq: 01 May 2025 12:49

Tgt Ion: 94 Resp: 31246

Ion	Ratio	Lower	Upper
94	100		
96	97.9	68.8	103.2



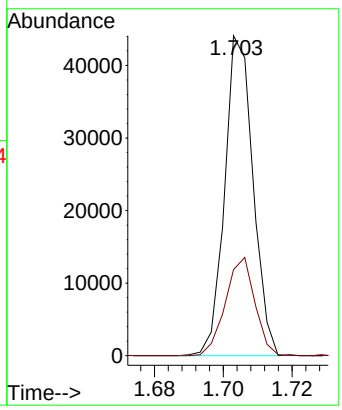


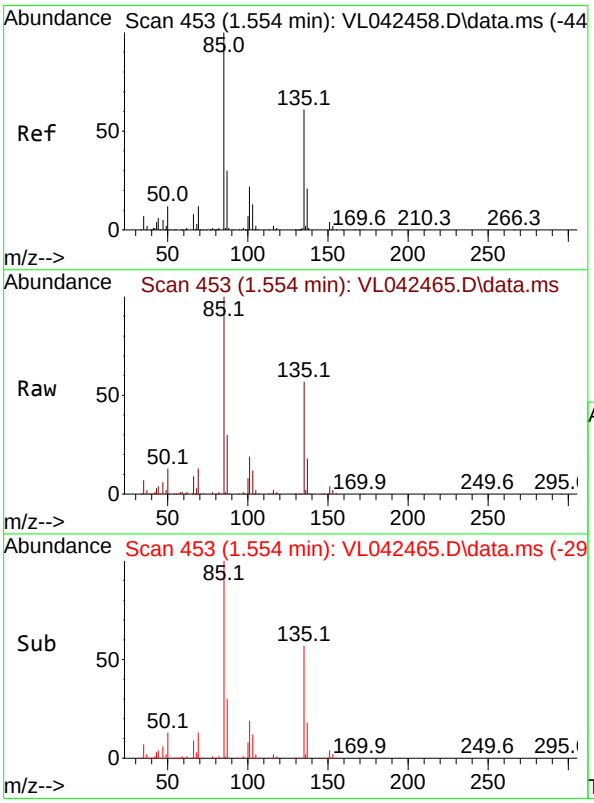
#7
Chloroethane
Concen: 15.227 ppbv
RT: 1.703 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042465.D
Acq: 01 May 2025 12:49

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 64 Resp: 25181

Ion	Ratio	Lower	Upper
64	100		
66	26.9	25.0	37.4

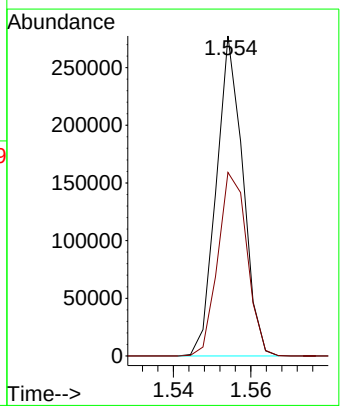


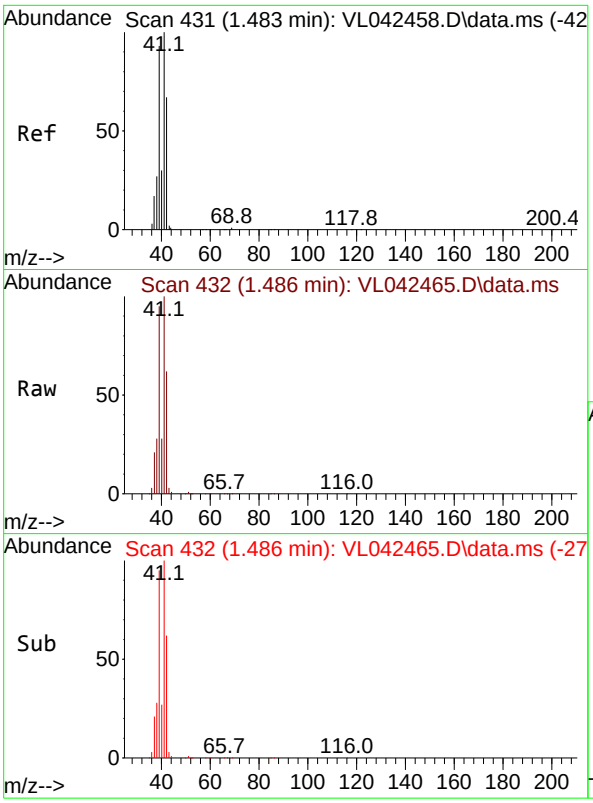


#8
Dichlorotetrafluoroethane
Concen: 15.044 ppbv
RT: 1.554 min Scan# 453
Delta R.T. 0.000 min
Lab File: VL042465.D
Acq: 01 May 2025 12:49

Tgt Ion: 85 Resp: 131995

Ion	Ratio	Lower	Upper
85	100		
135	63.1	49.8	74.8



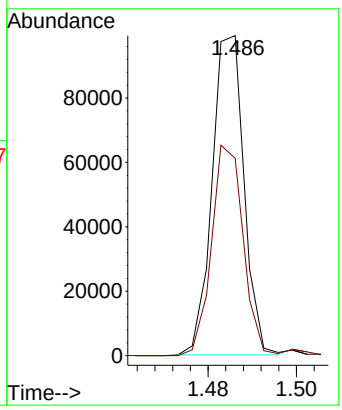


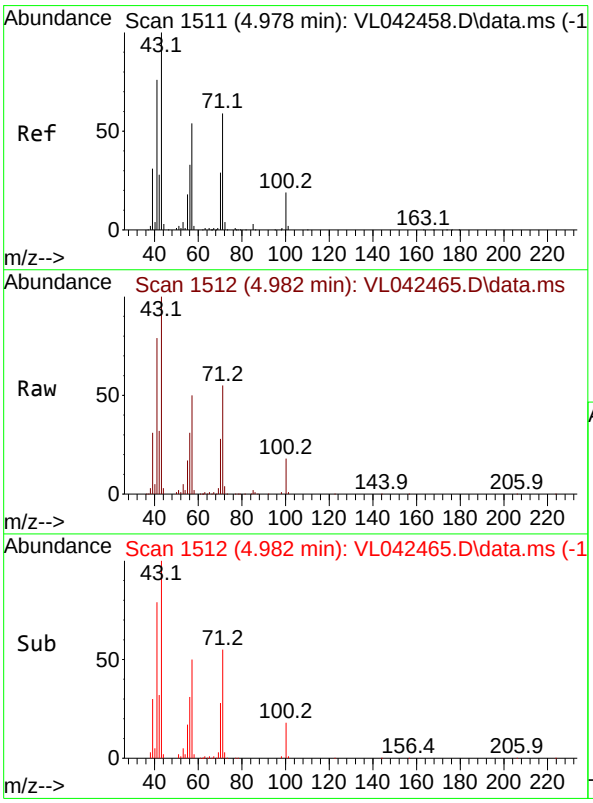
#9
Propene
Concen: 13.489 ppbv
RT: 1.486 min Scan# 4
Delta R.T. 0.004 min
Lab File: VL042465.D
Acq: 01 May 2025 12:49

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 41 Resp: 49647

Ion	Ratio	Lower	Upper
41	100		
42	66.7	54.3	81.5

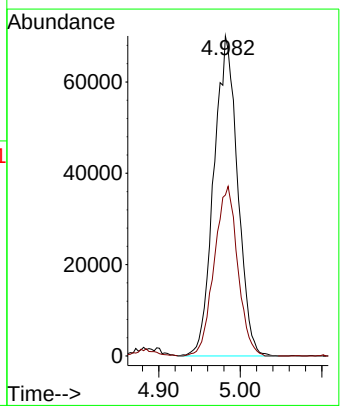


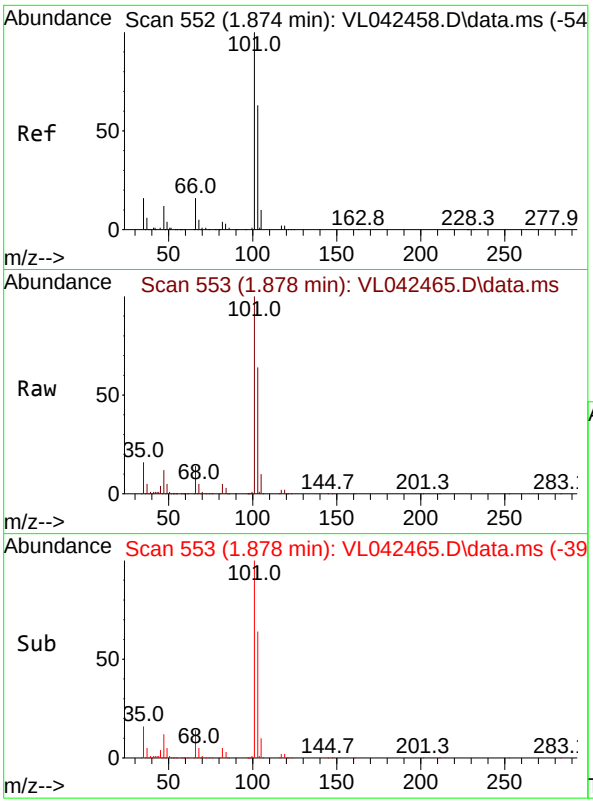


#10
Heptane
Concen: 14.898 ppbv
RT: 4.982 min Scan# 1512
Delta R.T. 0.004 min
Lab File: VL042465.D
Acq: 01 May 2025 12:49

Tgt Ion: 43 Resp: 142235

Ion	Ratio	Lower	Upper
43	100		
57	52.4	41.8	62.8



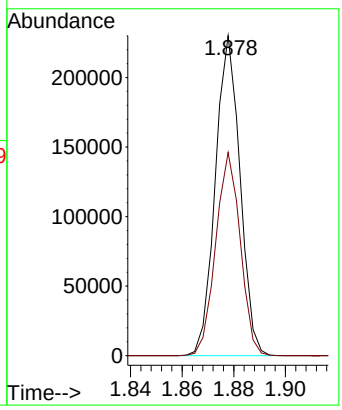


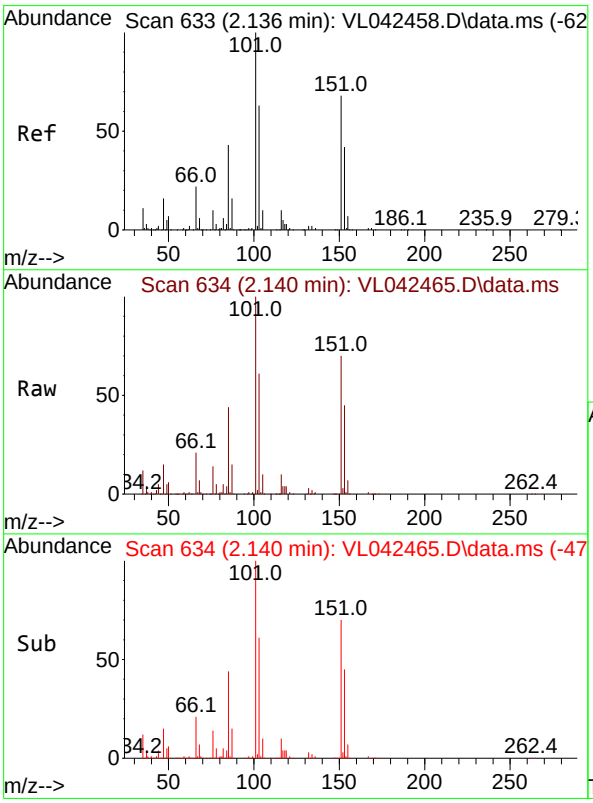
#11
Trichlorofluoromethane
Concen: 16.082 ppbv
RT: 1.878 min Scan# 5
Delta R.T. 0.004 min
Lab File: VL042465.D
Acq: 01 May 2025 12:49

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion:101 Resp: 152655

Ion	Ratio	Lower	Upper
101	100		
103	63.5	50.6	76.0

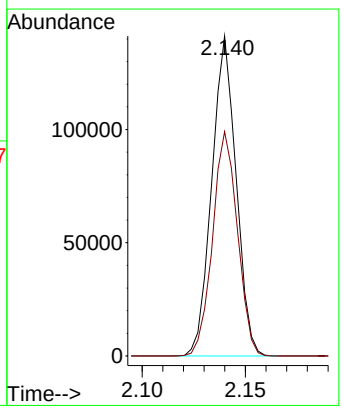


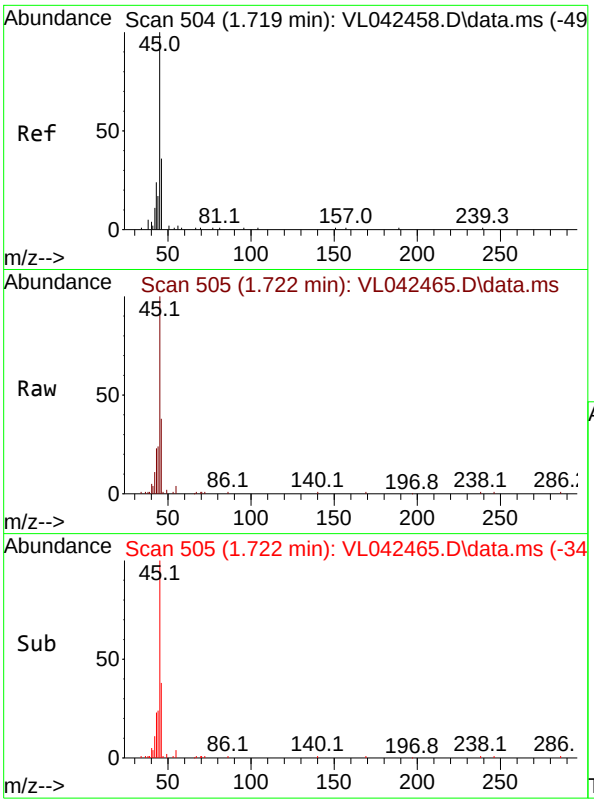


#12
1,1,2-Trichlorotrifluoroethane
Concen: 14.775 ppbv
RT: 2.140 min Scan# 634
Delta R.T. 0.004 min
Lab File: VL042465.D
Acq: 01 May 2025 12:49

Tgt Ion:101 Resp: 115855

Ion	Ratio	Lower	Upper
101	100		
151	71.4	54.6	82.0



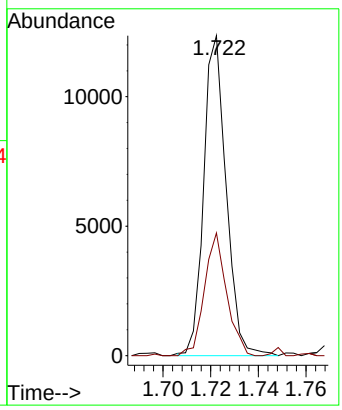


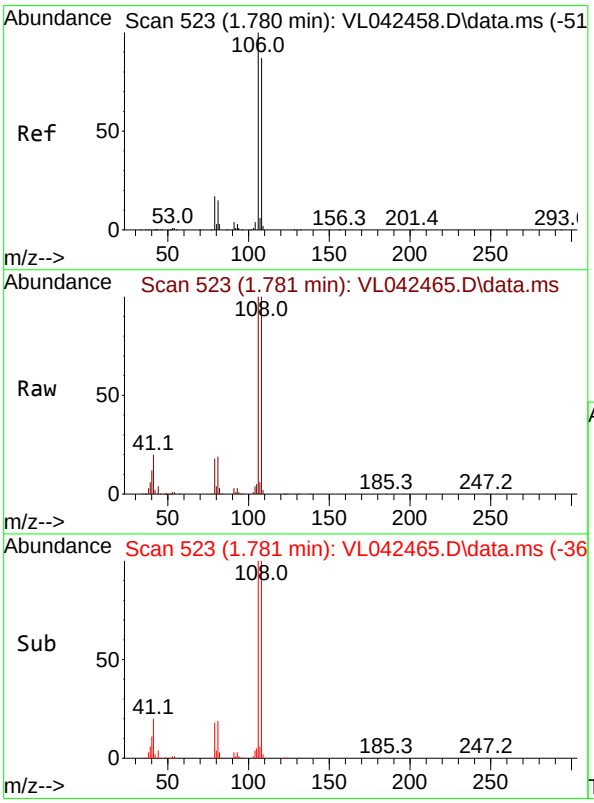
#13
Ethanol
Concen: 10.832 ppbv
RT: 1.722 min Scan# 5
Delta R.T. 0.004 min
Lab File: VL042465.D
Acq: 01 May 2025 12:49

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 45 Resp: 8090

Ion	Ratio	Lower	Upper
45	100		
46	39.5	15.3	61.1

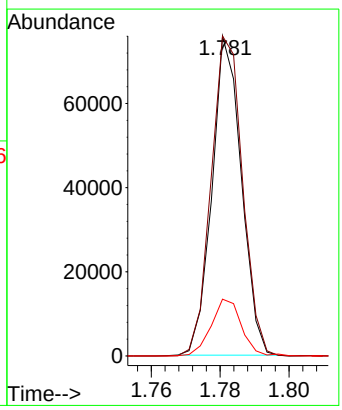


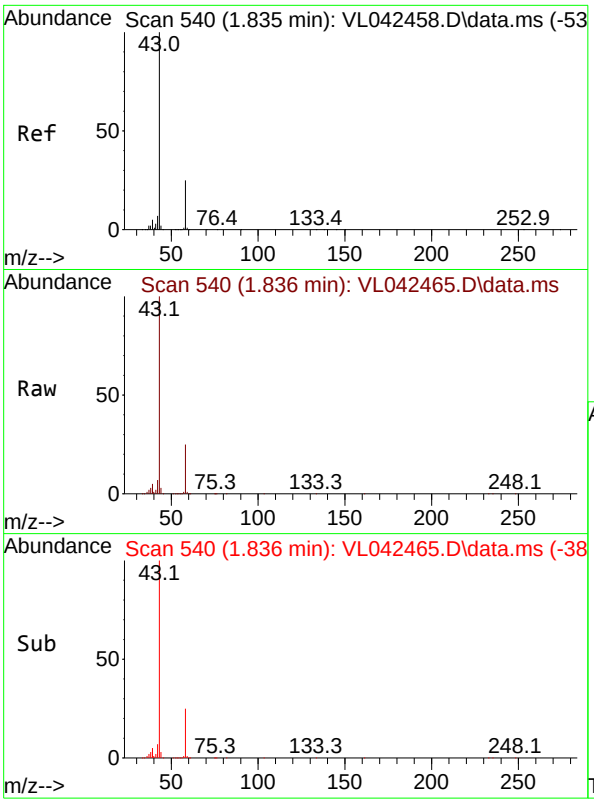


#14
Bromoethene
Concen: 15.519 ppbv
RT: 1.781 min Scan# 523
Delta R.T. 0.000 min
Lab File: VL042465.D
Acq: 01 May 2025 12:49

Tgt Ion:108 Resp: 44928

Ion	Ratio	Lower	Upper
108	100		
106	107.6	88.8	133.2
79	18.7	17.1	25.7



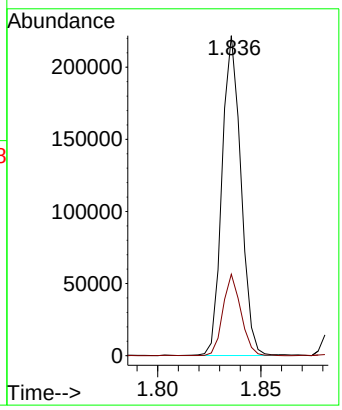


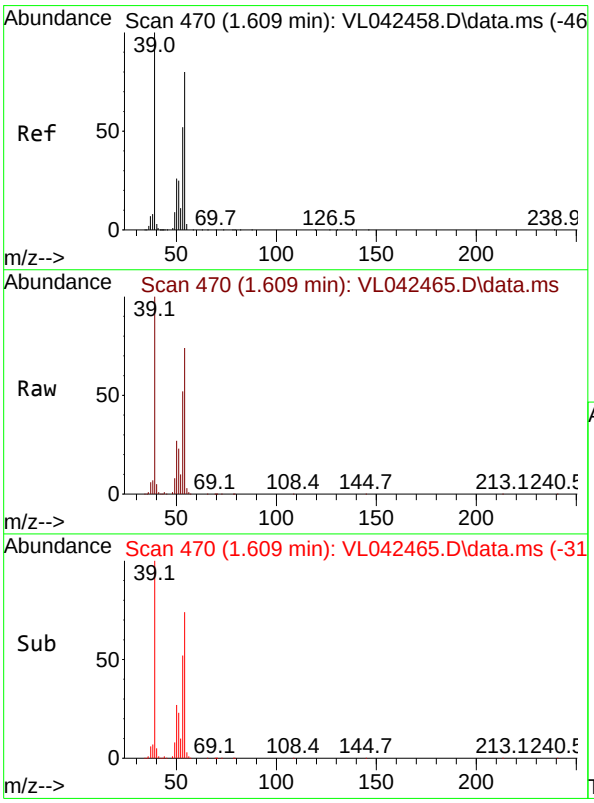
#15
Acetone
Concen: 12.036 ppbv
RT: 1.836 min Scan# 54
Delta R.T. 0.000 min
Lab File: VL042465.D
Acq: 01 May 2025 12:49

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 43 Resp: 141306

Ion	Ratio	Lower	Upper
43	100		
58	24.3	19.8	29.8

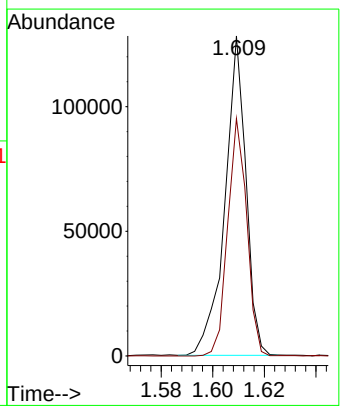


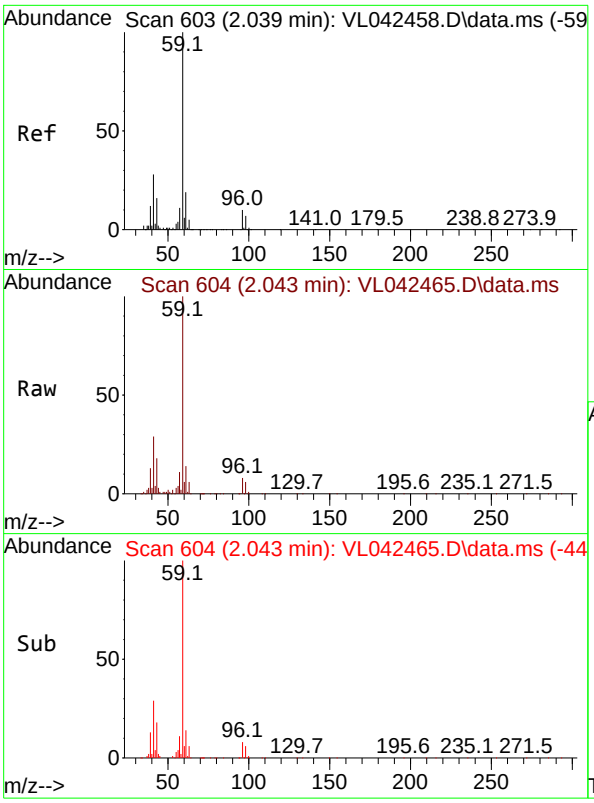


#16
1,3-Butadiene
Concen: 13.992 ppbv
RT: 1.609 min Scan# 470
Delta R.T. 0.000 min
Lab File: VL042465.D
Acq: 01 May 2025 12:49

Tgt Ion: 39 Resp: 72455

Ion	Ratio	Lower	Upper
39	100		
54	67.3	55.2	82.8



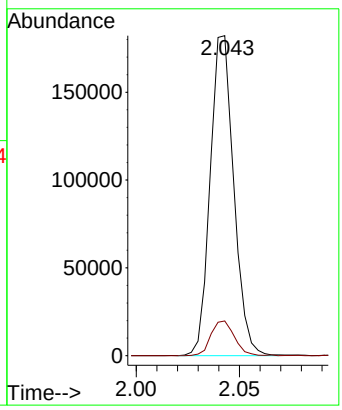


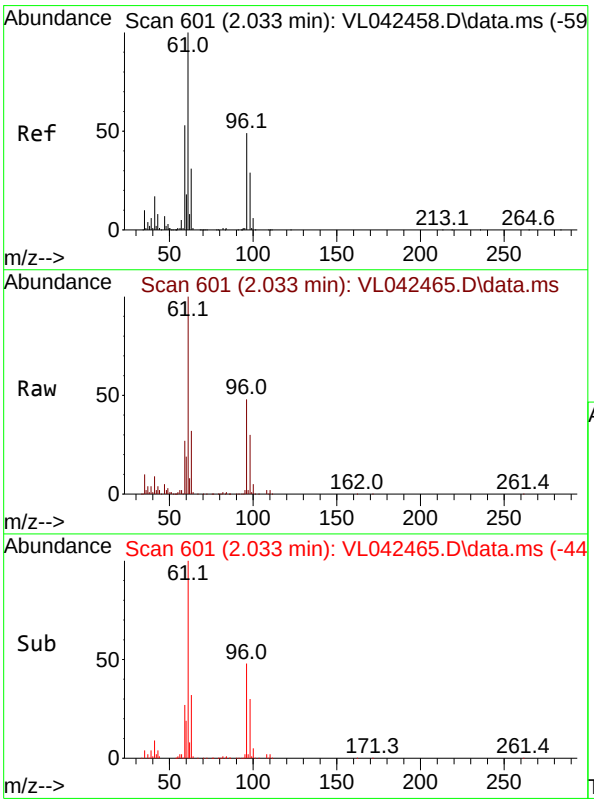
#17
tert-Butyl alcohol
Concen: 14.012 ppbv
RT: 2.043 min Scan# 6
Delta R.T. 0.004 min
Lab File: VL042465.D
Acq: 01 May 2025 12:49

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 59 Resp: 144935

Ion	Ratio	Lower	Upper
59	100		
57	10.9	8.3	12.5

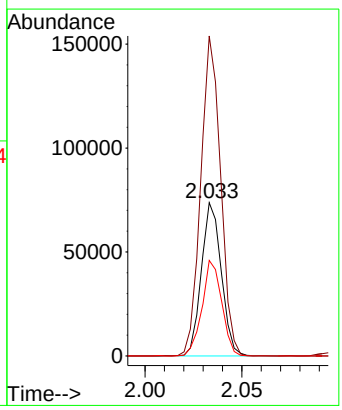


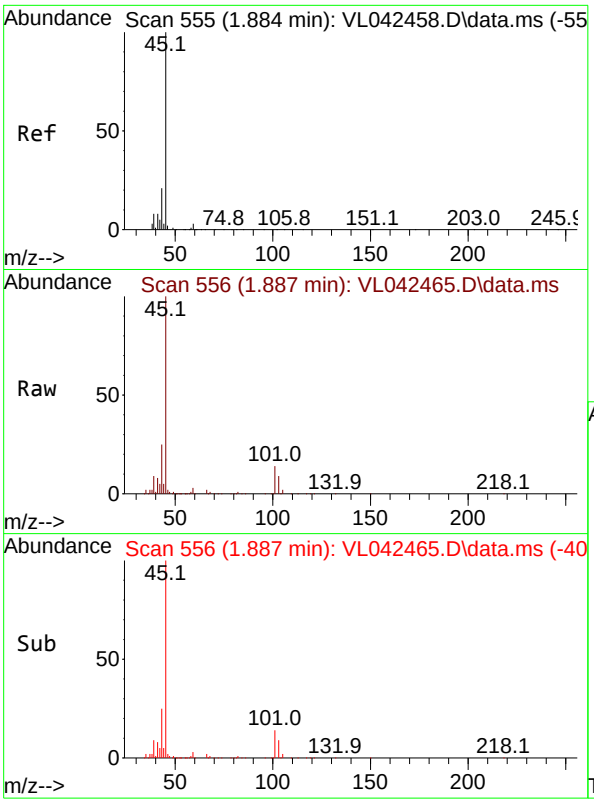


#18
1,1-Dichloroethene
Concen: 14.424 ppbv
RT: 2.033 min Scan# 601
Delta R.T. 0.000 min
Lab File: VL042465.D
Acq: 01 May 2025 12:49

Tgt Ion: 96 Resp: 52813

Ion	Ratio	Lower	Upper
96	100		
61	208.7	164.9	247.3
98	62.3	48.2	72.2



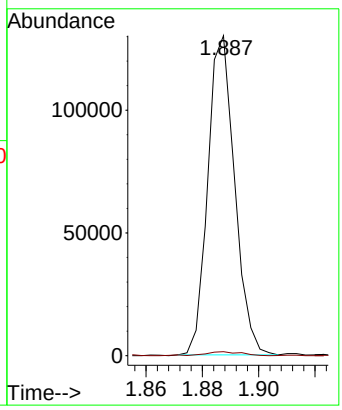


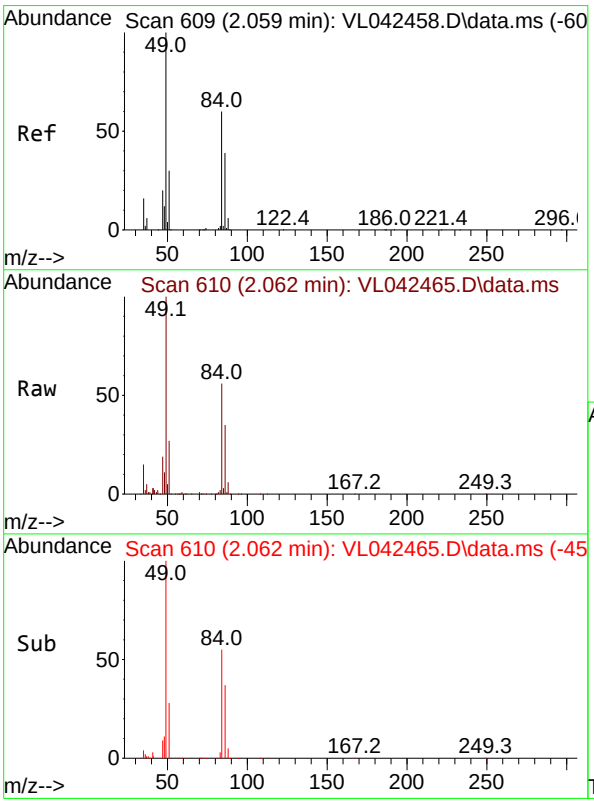
#19
Isopropyl Alcohol
Concen: 13.235 ppbv
RT: 1.887 min Scan# 5
Delta R.T. 0.004 min
Lab File: VL042465.D
Acq: 01 May 2025 12:49

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 45 Resp: 86000

Ion	Ratio	Lower	Upper
45	100		
58	40.0	1.6	2.4#

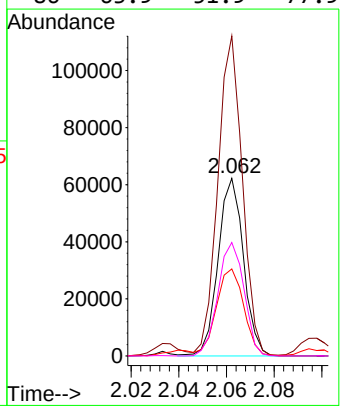


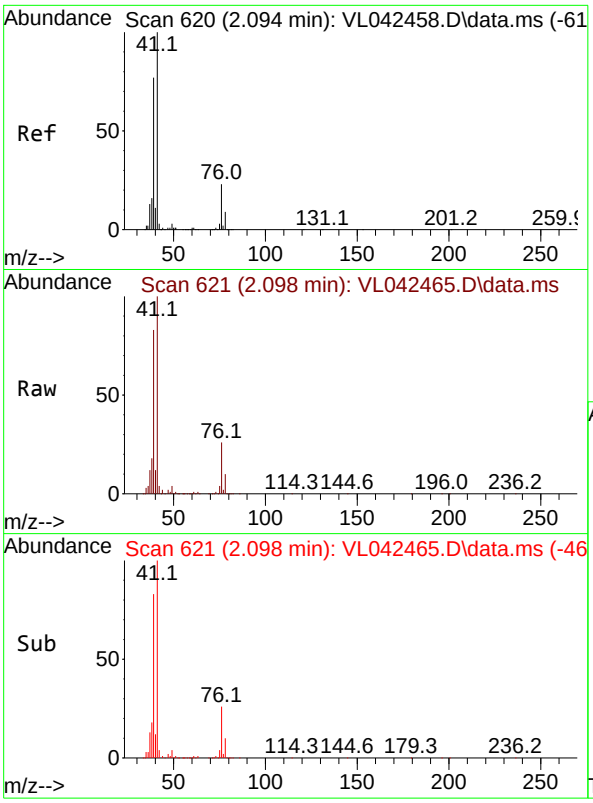


#20
Methylene Chloride
Concen: 13.050 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.004 min
Lab File: VL042465.D
Acq: 01 May 2025 12:49

Tgt Ion: 84 Resp: 46063

Ion	Ratio	Lower	Upper
84	100		
49	179.6	133.9	200.9
51	48.7	41.0	61.6
86	63.9	51.9	77.9



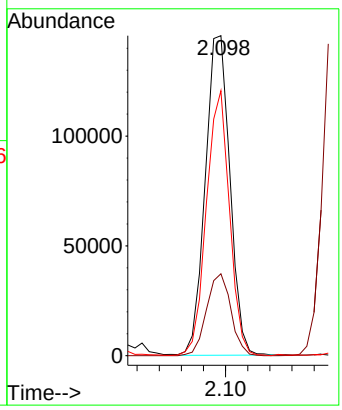


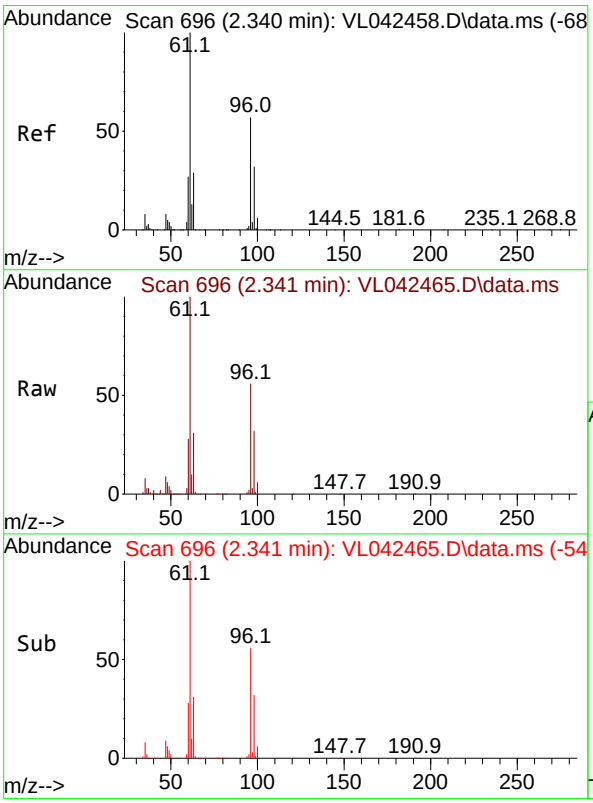
#21
Allyl Chloride
Concen: 14.893 ppbv
RT: 2.098 min Scan# 6
Delta R.T. 0.004 min
Lab File: VL042465.D
Acq: 01 May 2025 12:49

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 41 Resp: 112451

Ion	Ratio	Lower	Upper
41	100		
76	25.3	19.6	29.4
39	77.4	61.0	91.4

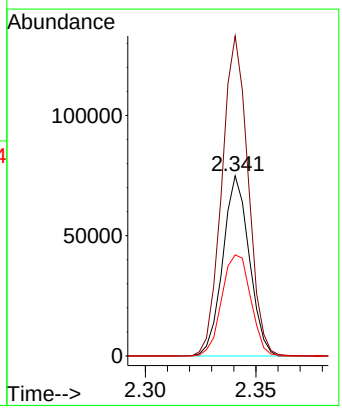


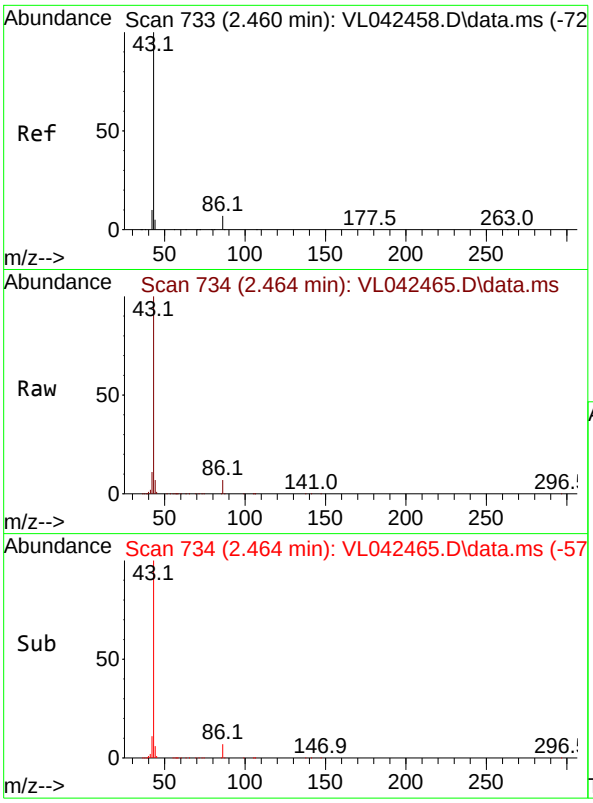


#22
trans-1,2-Dichloroethene
Concen: 14.534 ppbv
RT: 2.341 min Scan# 696
Delta R.T. 0.000 min
Lab File: VL042465.D
Acq: 01 May 2025 12:49

Tgt Ion: 96 Resp: 62153

Ion	Ratio	Lower	Upper
96	100		
61	177.5	141.8	212.6
98	56.1	45.0	67.6



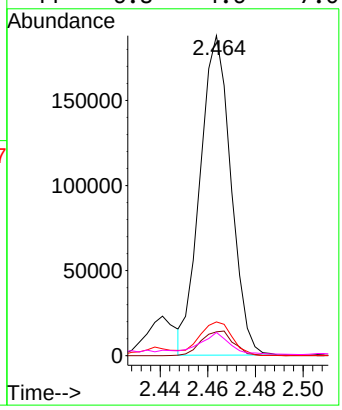


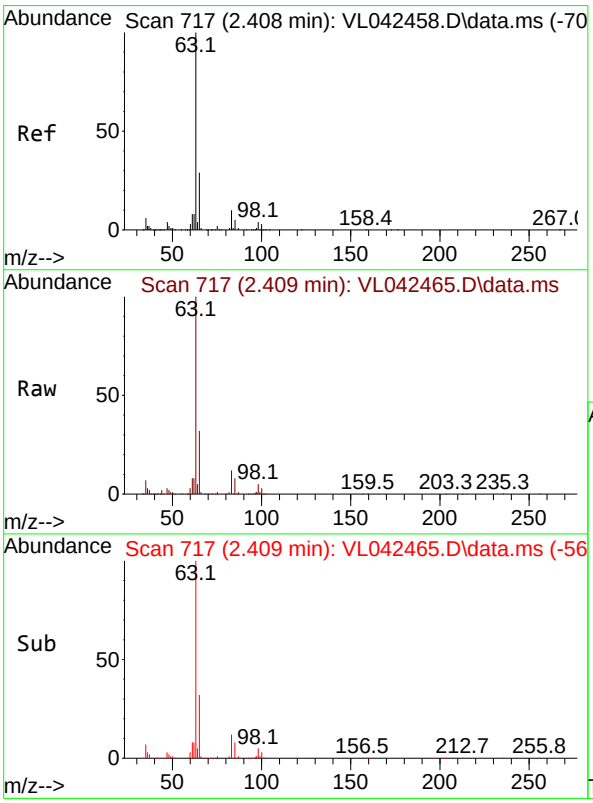
#23
Vinyl Acetate
Concen: 15.489 ppbv
RT: 2.464 min Scan# 7
Delta R.T. 0.004 min
Lab File: VL042465.D
Acq: 01 May 2025 12:49

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 43 Resp: 169418

Ion	Ratio	Lower	Upper
43	100		
86	7.4	5.5	8.3
42	10.5	8.3	12.5
44	6.8	4.6	7.0

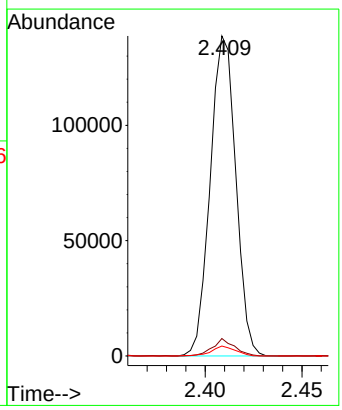


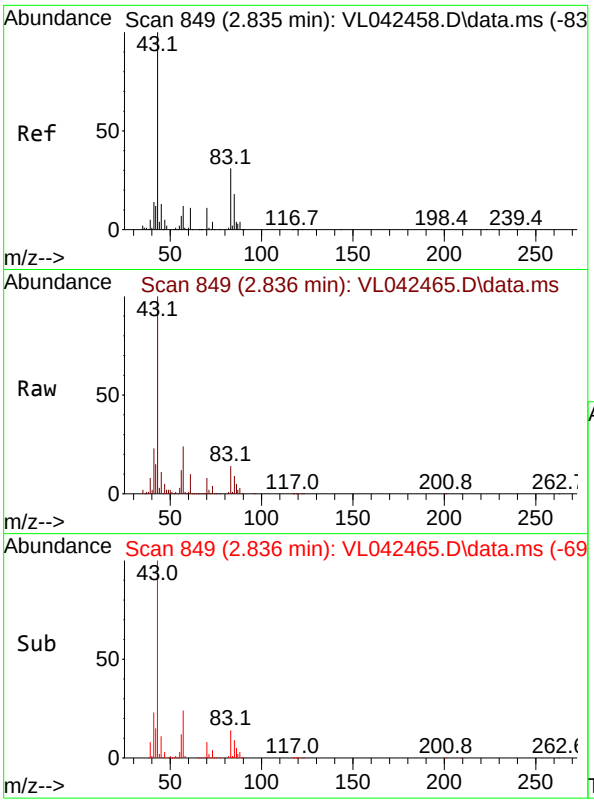


#24
1,1-Dichloroethane
Concen: 14.622 ppbv
RT: 2.409 min Scan# 717
Delta R.T. 0.000 min
Lab File: VL042465.D
Acq: 01 May 2025 12:49

Tgt Ion: 63 Resp: 127567

Ion	Ratio	Lower	Upper
63	100		
98	5.4	1.8	5.5
100	3.1	1.4	4.2



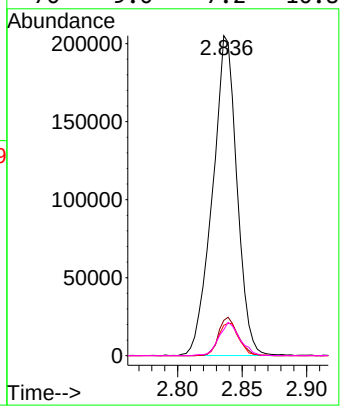


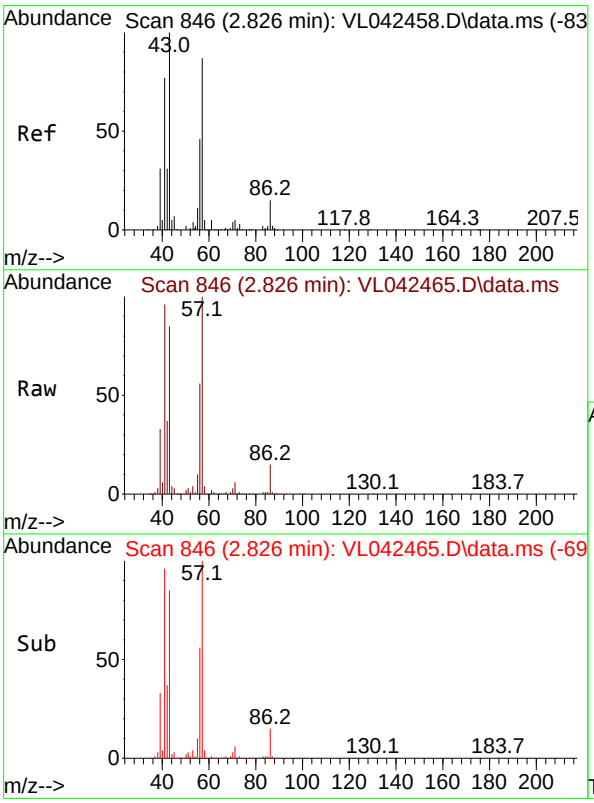
#25
Ethyl Acetate
Concen: 14.329 ppbv
RT: 2.836 min Scan# 84
Delta R.T. 0.000 min
Lab File: VL042465.D
Acq: 01 May 2025 12:49

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 43 Resp: 269372

Ion	Ratio	Lower	Upper
43	100		
45	9.6	7.8	11.6
61	8.6	7.2	10.8
70	9.0	7.2	10.8

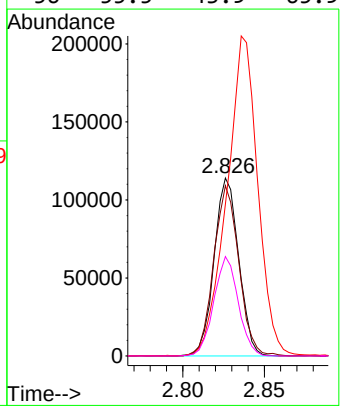


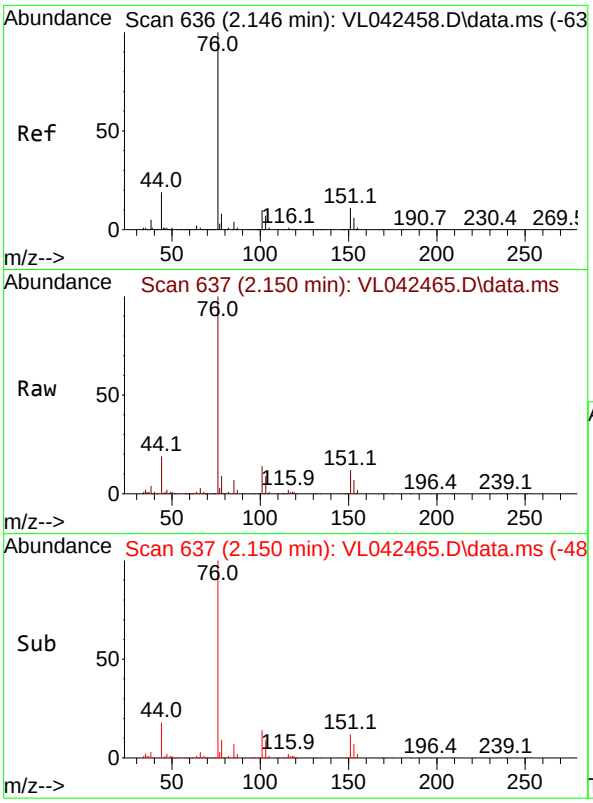


#26
Hexane
Concen: 14.598 ppbv
RT: 2.826 min Scan# 846
Delta R.T. 0.000 min
Lab File: VL042465.D
Acq: 01 May 2025 12:49

Tgt Ion: 57 Resp: 119552

Ion	Ratio	Lower	Upper
57	100		
41	98.3	77.8	116.8
43	226.6	187.0	280.6
56	55.5	43.9	65.9



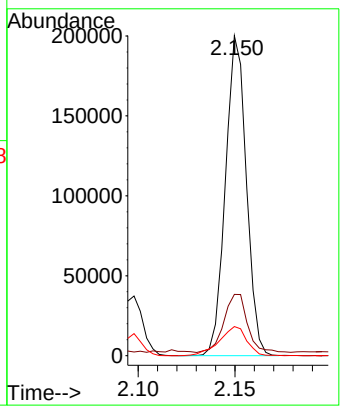


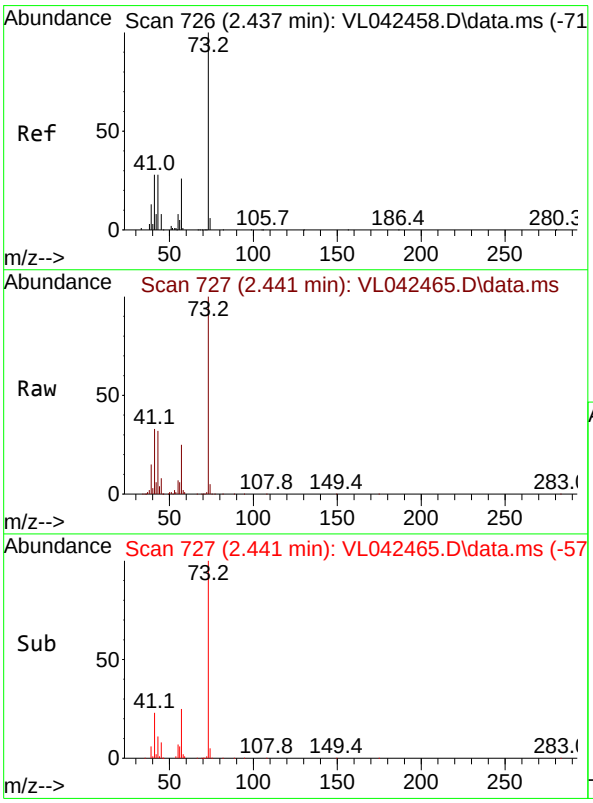
#27
Carbon Disulfide
Concen: 15.722 ppbv
RT: 2.150 min Scan# 6
Delta R.T. 0.004 min
Lab File: VL042465.D
Acq: 01 May 2025 12:49

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 76 Resp: 150258

Ion	Ratio	Lower	Upper
76	100		
44	21.0	21.0	31.6#
78	11.9	8.6	13.0

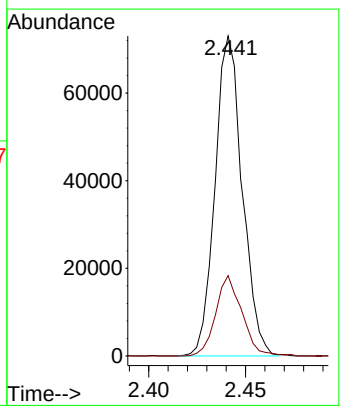


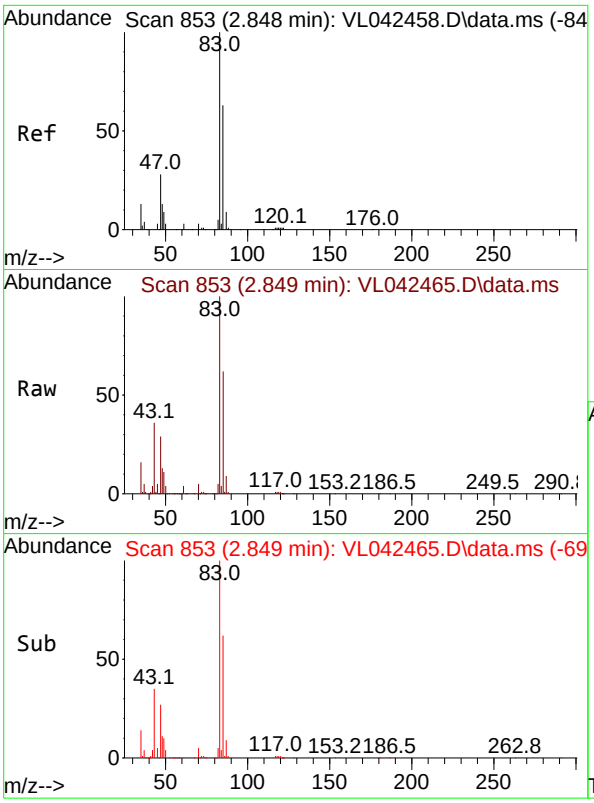


#28
Methyl tert-Butyl Ether
Concen: 14.500 ppbv
RT: 2.441 min Scan# 727
Delta R.T. 0.004 min
Lab File: VL042465.D
Acq: 01 May 2025 12:49

Tgt Ion: 73 Resp: 71341

Ion	Ratio	Lower	Upper
73	100		
57	24.2	19.9	29.9



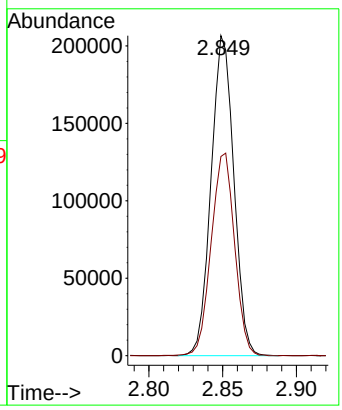


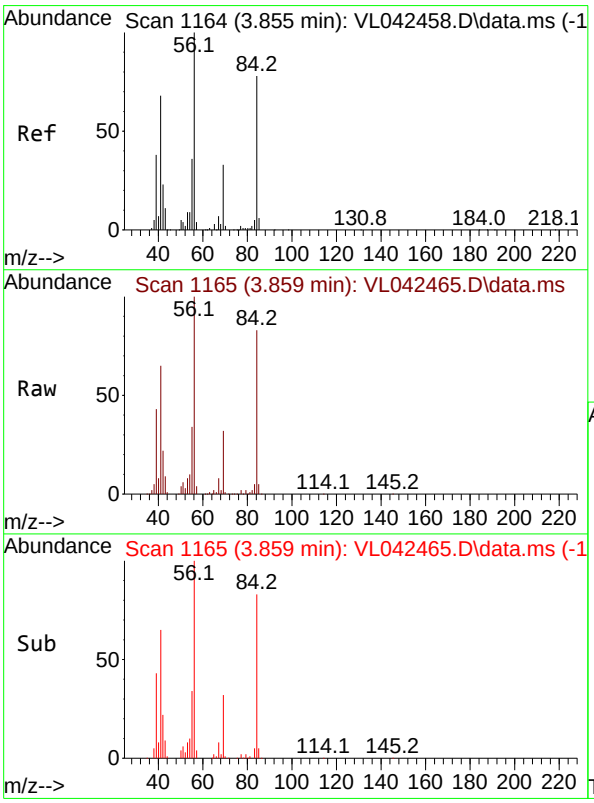
#29
Chloroform
Concen: 14.464 ppbv
RT: 2.849 min Scan# 8
Delta R.T. 0.000 min
Lab File: VL042465.D
Acq: 01 May 2025 12:49

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 83 Resp: 221976

Ion	Ratio	Lower	Upper
83	100		
85	62.3	50.4	75.6

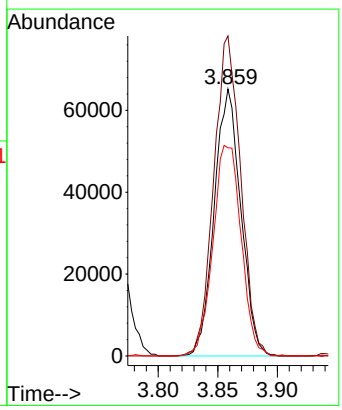


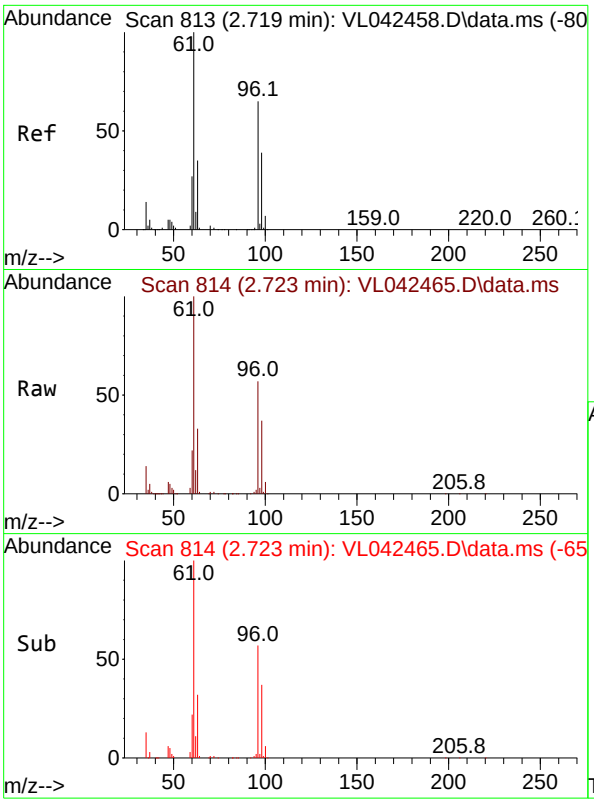


#30
Cyclohexane
Concen: 14.771 ppbv
RT: 3.859 min Scan# 1165
Delta R.T. 0.004 min
Lab File: VL042465.D
Acq: 01 May 2025 12:49

Tgt Ion: 84 Resp: 101146

Ion	Ratio	Lower	Upper
84	100		
56	121.4	98.1	147.1
41	83.9	65.8	98.8



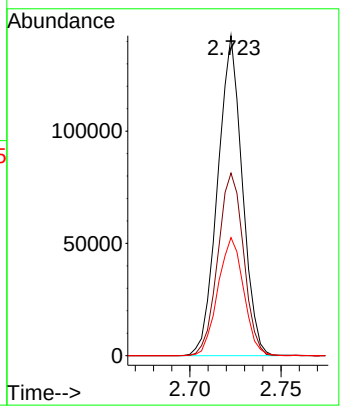


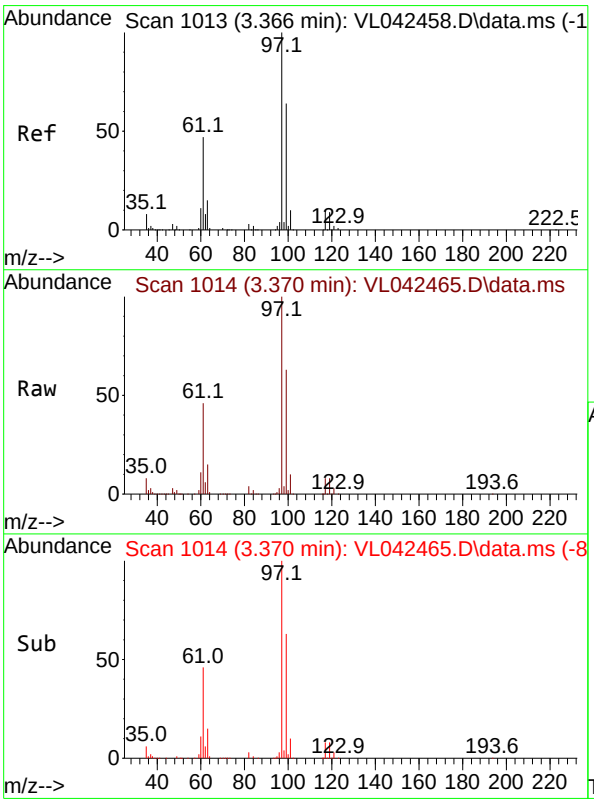
#31
cis-1,2-Dichloroethene
Concen: 13.997 ppbv
RT: 2.723 min Scan# 8
Delta R.T. 0.004 min
Lab File: VL042465.D
Acq: 01 May 2025 12:49

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 61 Resp: 133735

Ion	Ratio	Lower	Upper
61	100		
96	57.0	52.0	78.0
98	36.9	31.0	46.6

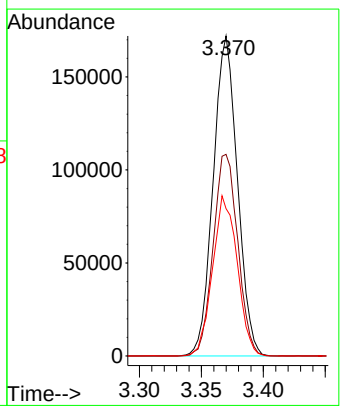


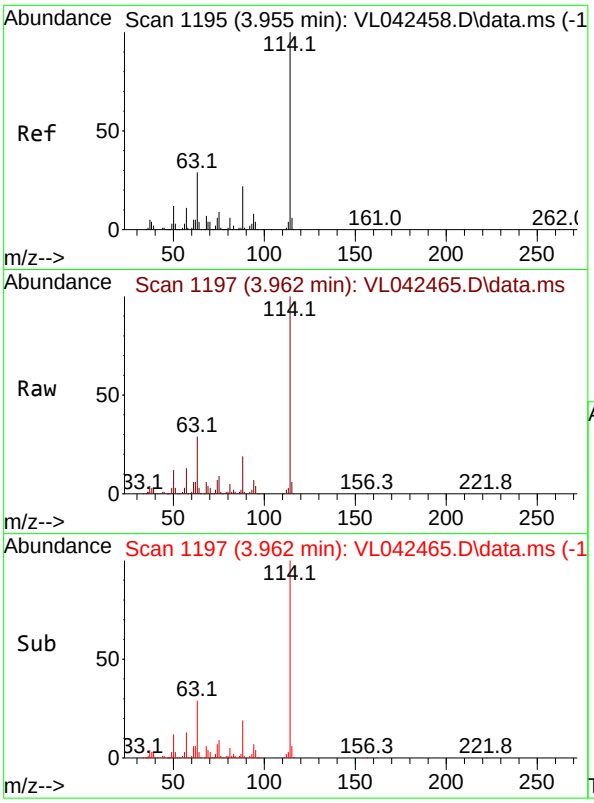


#32
1,1,1-Trichloroethane
Concen: 14.099 ppbv
RT: 3.370 min Scan# 1014
Delta R.T. 0.004 min
Lab File: VL042465.D
Acq: 01 May 2025 12:49

Tgt Ion: 97 Resp: 234752

Ion	Ratio	Lower	Upper
97	100		
99	63.9	50.7	76.1
61	50.8	40.9	61.3



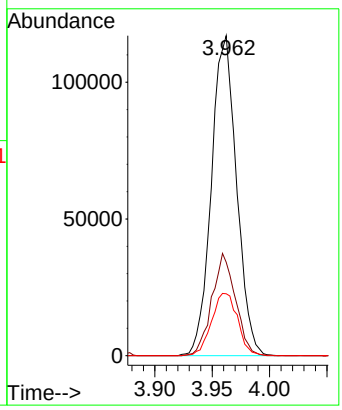


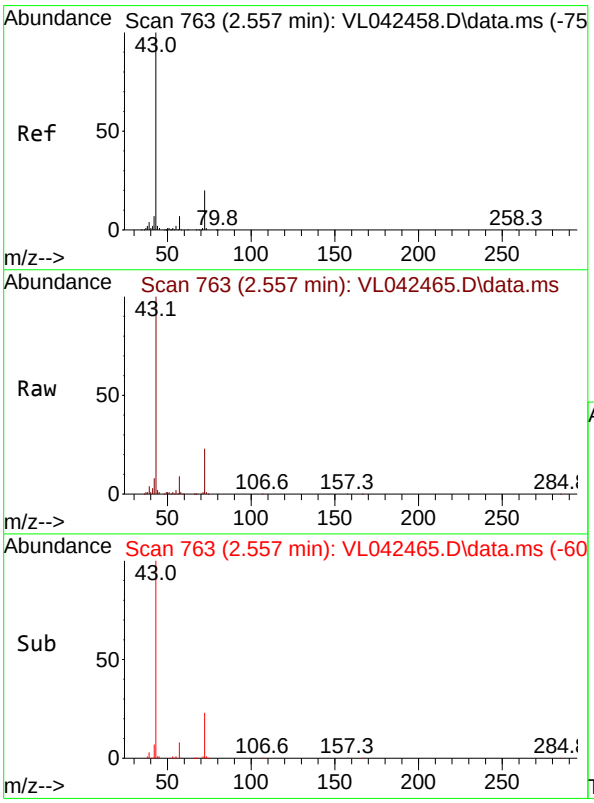
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.962 min Scan# 11
Delta R.T. 0.007 min
Lab File: VL042465.D
Acq: 01 May 2025 12:49

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion:114 Resp: 178877

Ion	Ratio	Lower	Upper
114	100		
63	30.0	23.1	34.7
88	20.2	16.1	24.1

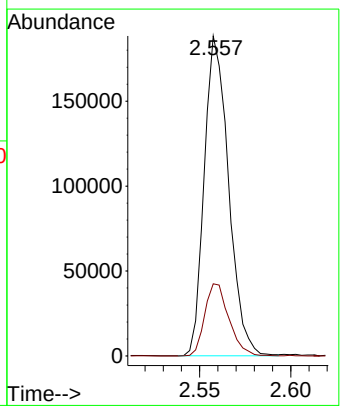


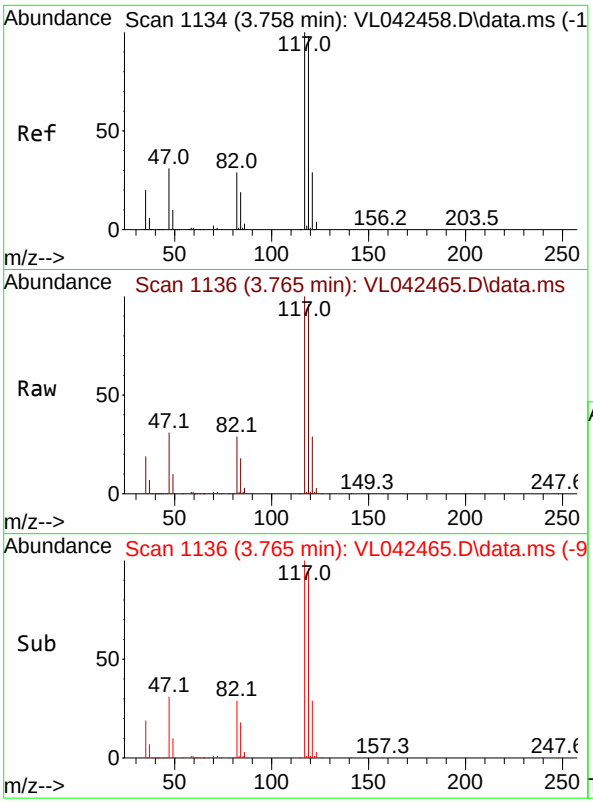


#34
2-Butanone
Concen: 13.488 ppbv
RT: 2.557 min Scan# 763
Delta R.T. 0.000 min
Lab File: VL042465.D
Acq: 01 May 2025 12:49

Tgt Ion: 43 Resp: 174521

Ion	Ratio	Lower	Upper
43	100		
72	22.5	16.7	25.1



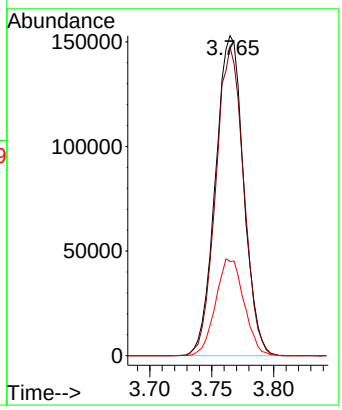


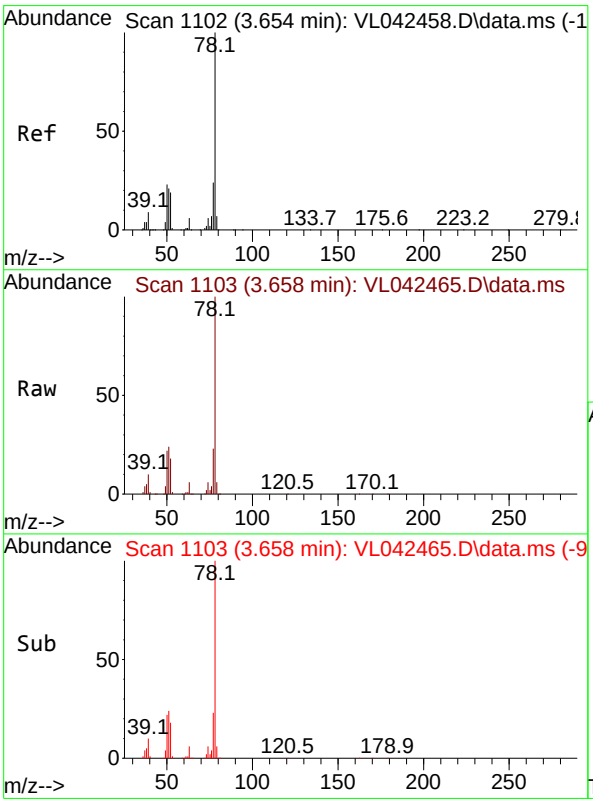
#35
Carbon Tetrachloride
Concen: 15.566 ppbv
RT: 3.765 min Scan# 1
Delta R.T. 0.007 min
Lab File: VL042465.D
Acq: 01 May 2025 12:49

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion:117 Resp: 242144

Ion	Ratio	Lower	Upper
117	100		
119	96.4	78.1	117.1
121	29.4	23.0	34.6

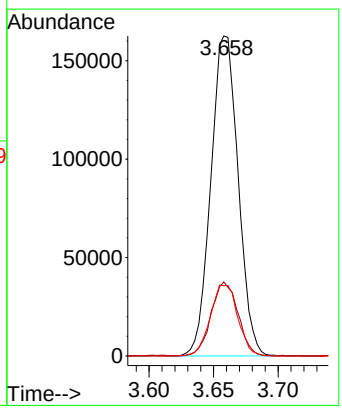


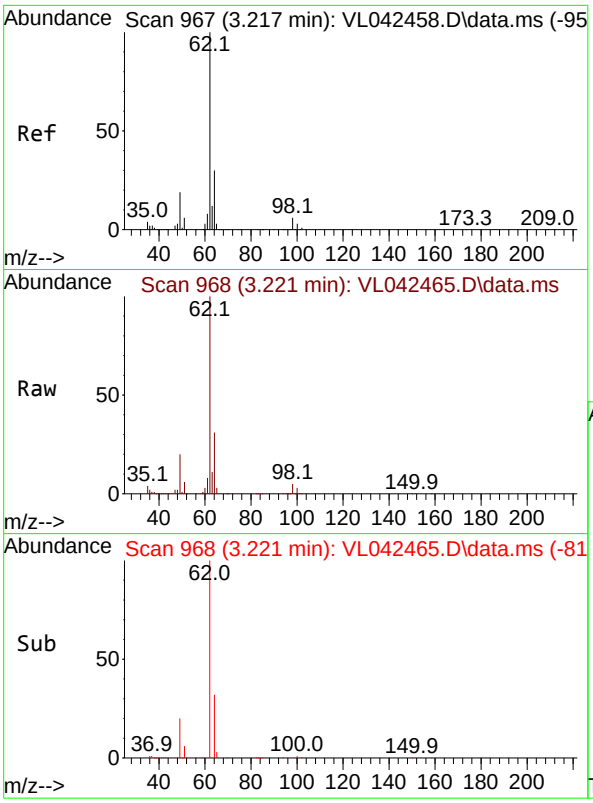


#36
Benzene
Concen: 14.179 ppbv
RT: 3.658 min Scan# 1103
Delta R.T. 0.004 min
Lab File: VL042465.D
Acq: 01 May 2025 12:49

Tgt Ion: 78 Resp: 239352

Ion	Ratio	Lower	Upper
78	100		
77	23.1	18.9	28.3
50	22.0	18.4	27.6



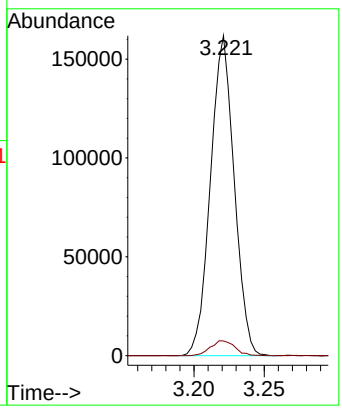


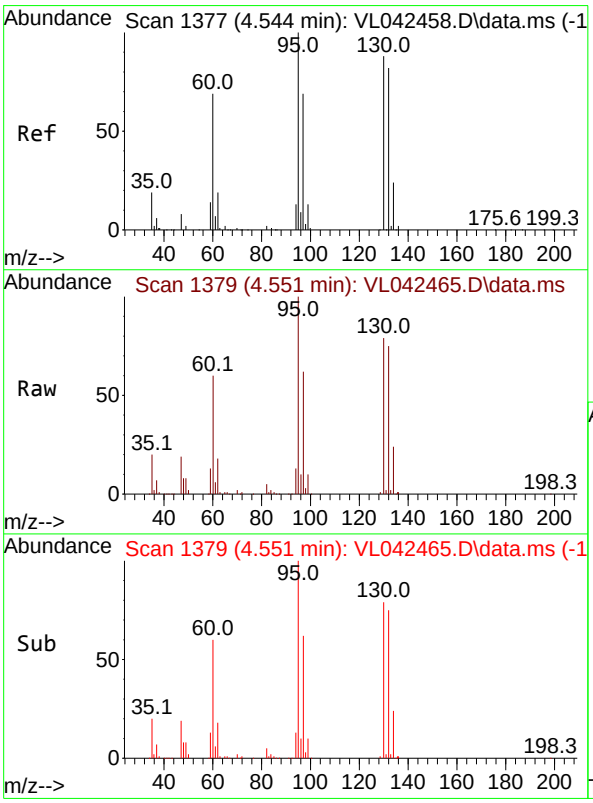
#37
1,2-Dichloroethane
Concen: 14.618 ppbv
RT: 3.221 min Scan# 9
Delta R.T. 0.004 min
Lab File: VL042465.D
Acq: 01 May 2025 12:49

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 62 Resp: 190179

Ion	Ratio	Lower	Upper
62	100		
98	4.9	4.3	6.5

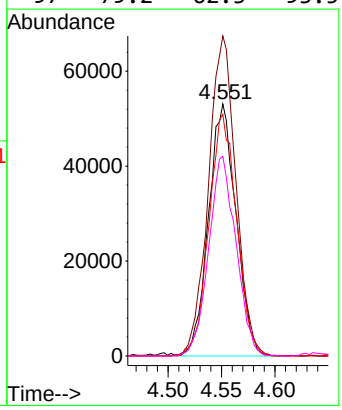


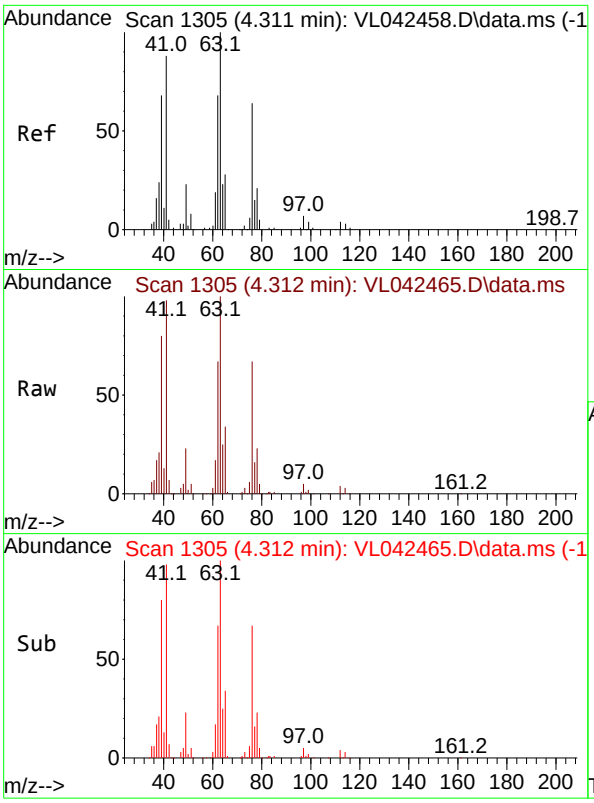


#38
Trichloroethene
Concen: 14.798 ppbv
RT: 4.551 min Scan# 1379
Delta R.T. 0.007 min
Lab File: VL042465.D
Acq: 01 May 2025 12:49

Tgt Ion:130 Resp: 95257

Ion	Ratio	Lower	Upper
130	100		
95	127.0	91.0	136.4
132	95.5	74.2	111.4
97	79.2	62.3	93.5



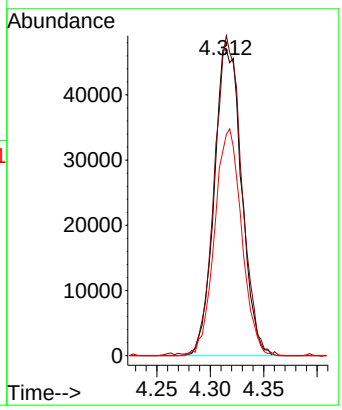


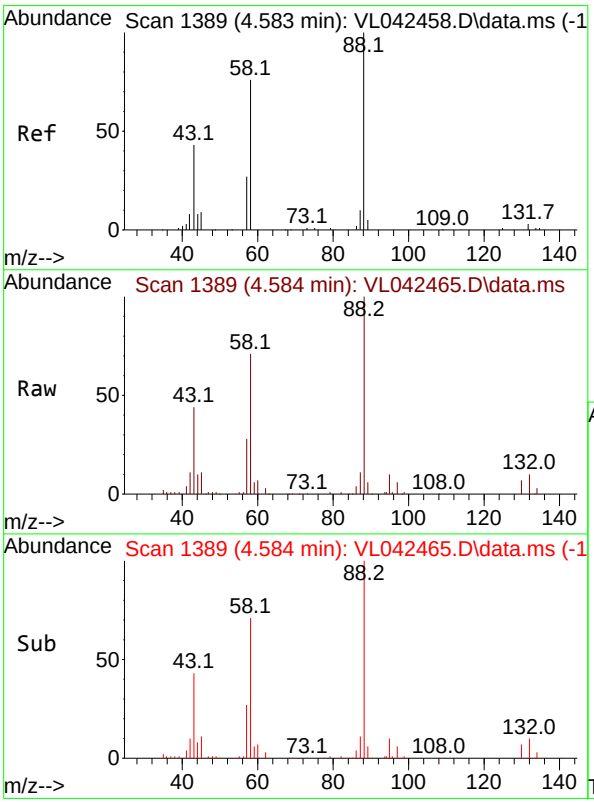
#39
1,2-Dichloropropane
Concen: 13.349 ppbv
RT: 4.312 min Scan# 1
Delta R.T. 0.000 min
Lab File: VL042465.D
Acq: 01 May 2025 12:49

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 63 Resp: 84414

Ion	Ratio	Lower	Upper
63	100		
41	97.5	69.8	104.6
62	66.9	54.3	81.5

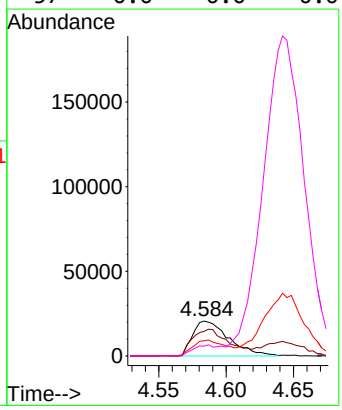


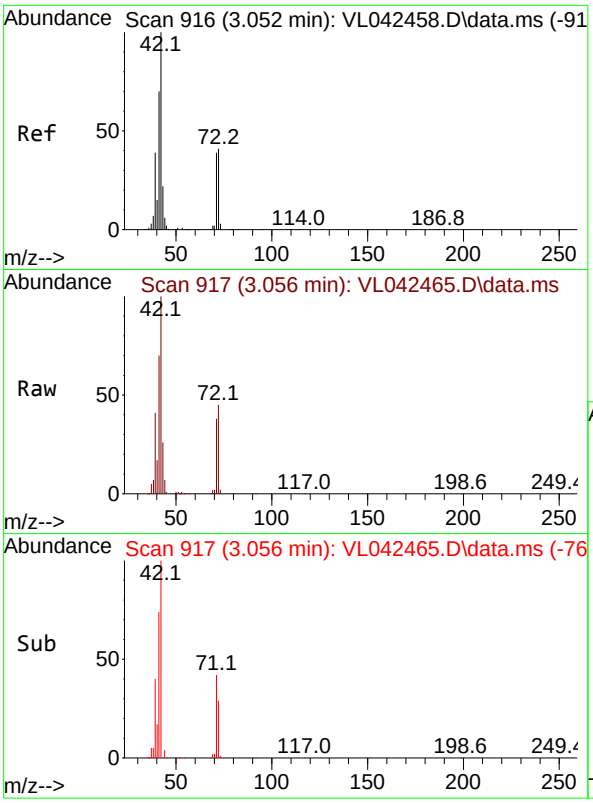


#40
1,4-Dioxane
Concen: 13.115 ppbv
RT: 4.584 min Scan# 1389
Delta R.T. 0.000 min
Lab File: VL042465.D
Acq: 01 May 2025 12:49

Tgt Ion: 88 Resp: 38551

Ion	Ratio	Lower	Upper
88	100		
58	75.4	0.0	0.0#
43	41.6	0.0	0.0#
57	0.0	0.0	0.0



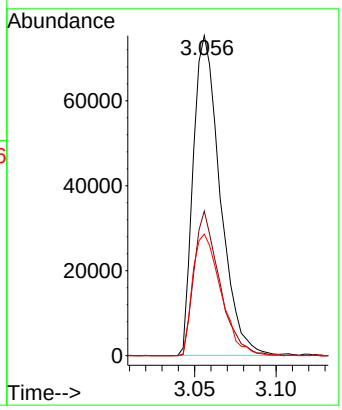


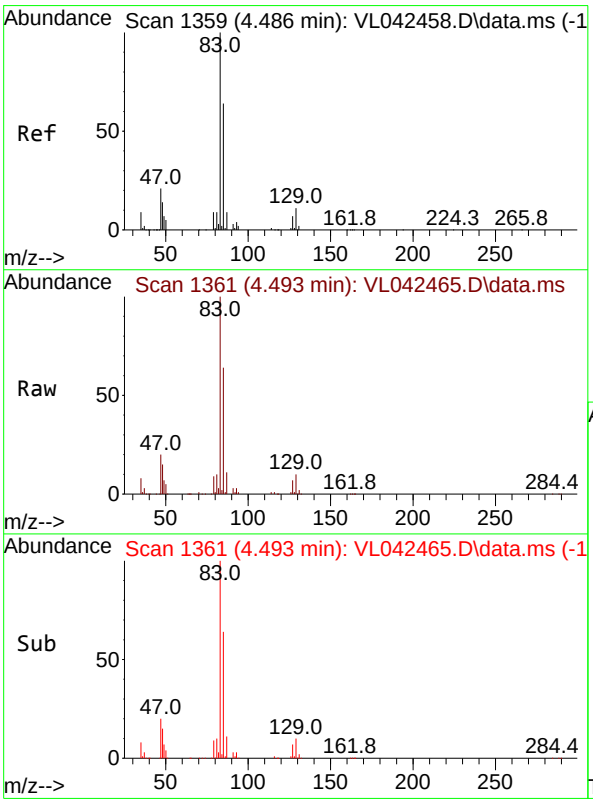
#41
Tetrahydrofuran
Concen: 14.063 ppbv
RT: 3.056 min Scan# 9
Delta R.T. 0.004 min
Lab File: VL042465.D
Acq: 01 May 2025 12:49

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 42 Resp: 86296

Ion	Ratio	Lower	Upper
42	100		
72	43.3	33.5	50.3
71	40.1	32.6	49.0

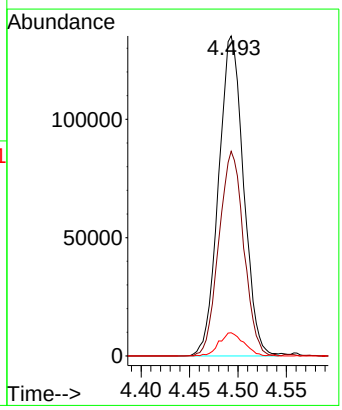


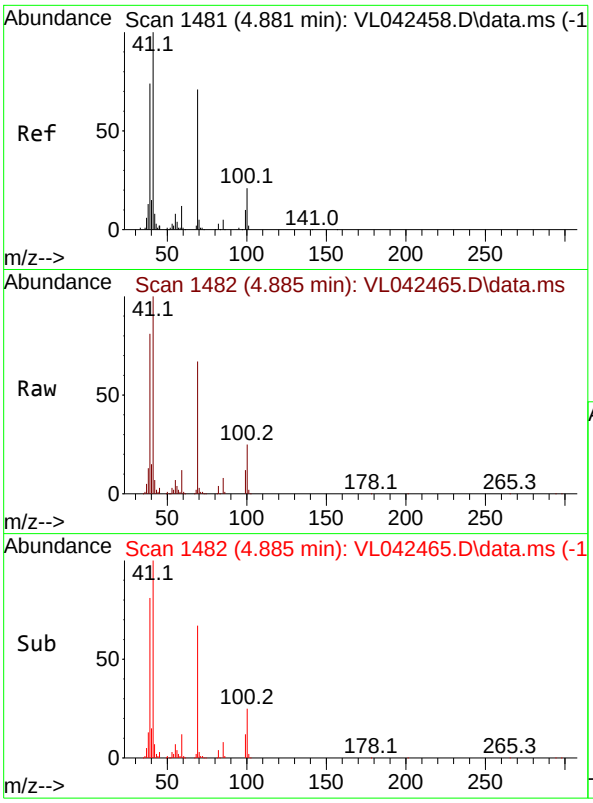


#42
Bromodichloromethane
Concen: 15.259 ppbv
RT: 4.493 min Scan# 1361
Delta R.T. 0.007 min
Lab File: VL042465.D
Acq: 01 May 2025 12:49

Tgt Ion: 83 Resp: 242556

Ion	Ratio	Lower	Upper
83	100		
85	63.9	51.5	77.3
127	7.3	5.4	8.2



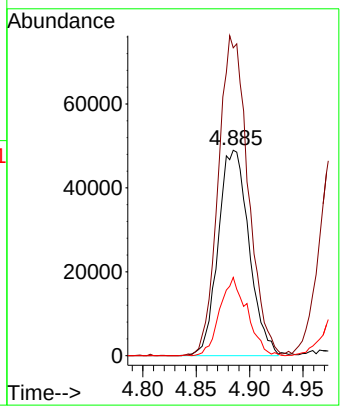


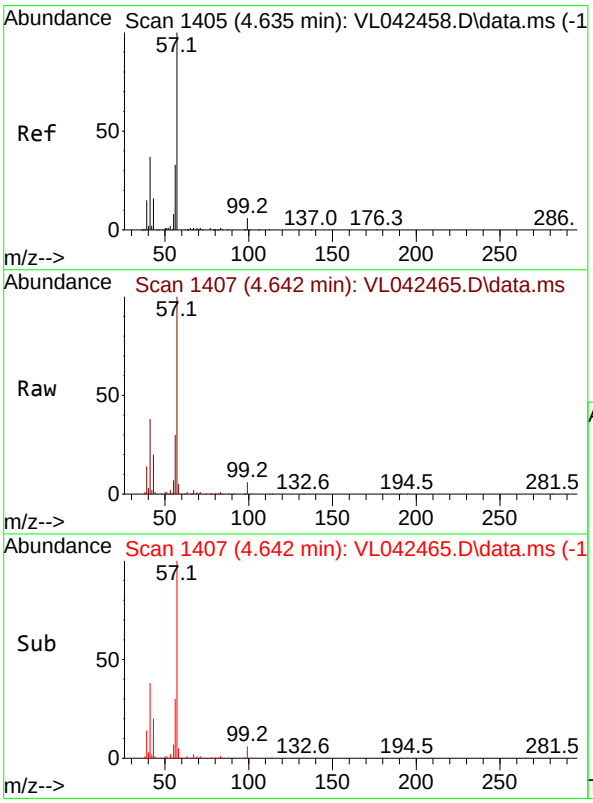
#43
Methyl Methacrylate
Concen: 15.639 ppbv
RT: 4.885 min Scan# 14
Delta R.T. 0.004 min
Lab File: VL042465.D
Acq: 01 May 2025 12:49

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 69 Resp: 98279

Ion	Ratio	Lower	Upper
69	100		
41	151.1	120.8	181.2
100	34.0	26.7	40.1

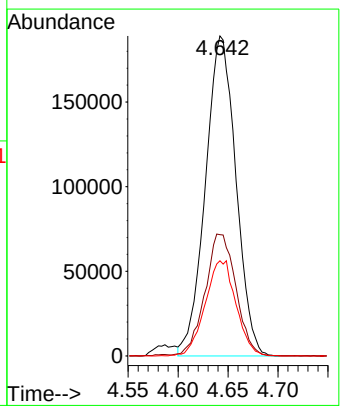


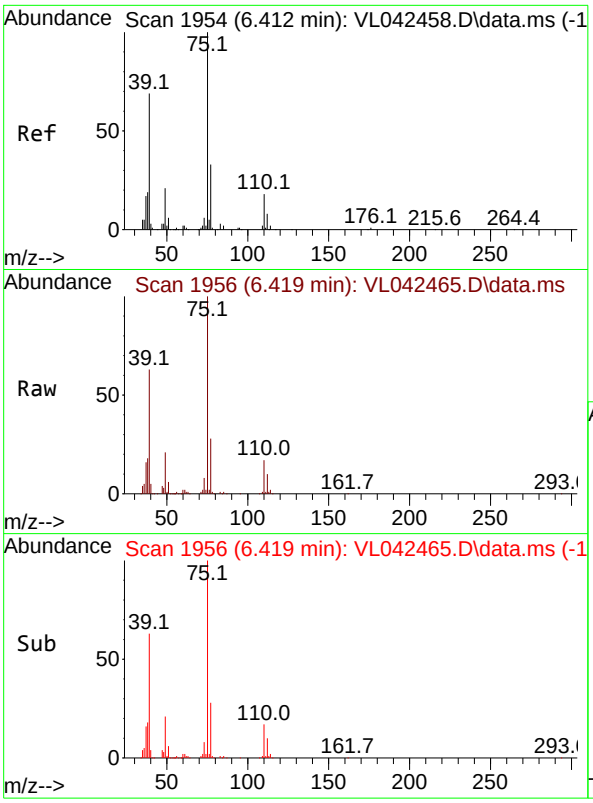


#44
2,2,4-Trimethylpentane
Concen: 14.734 ppbv
RT: 4.642 min Scan# 1407
Delta R.T. 0.007 min
Lab File: VL042465.D
Acq: 01 May 2025 12:49

Tgt Ion: 57 Resp: 401920

Ion	Ratio	Lower	Upper
57	100		
41	38.8	30.6	45.8
56	30.1	25.0	37.6



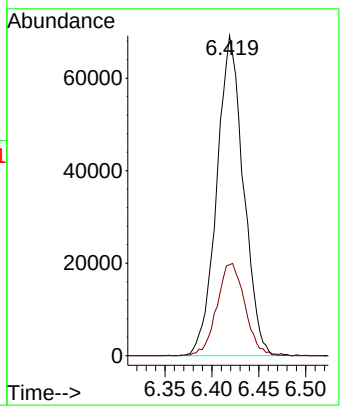


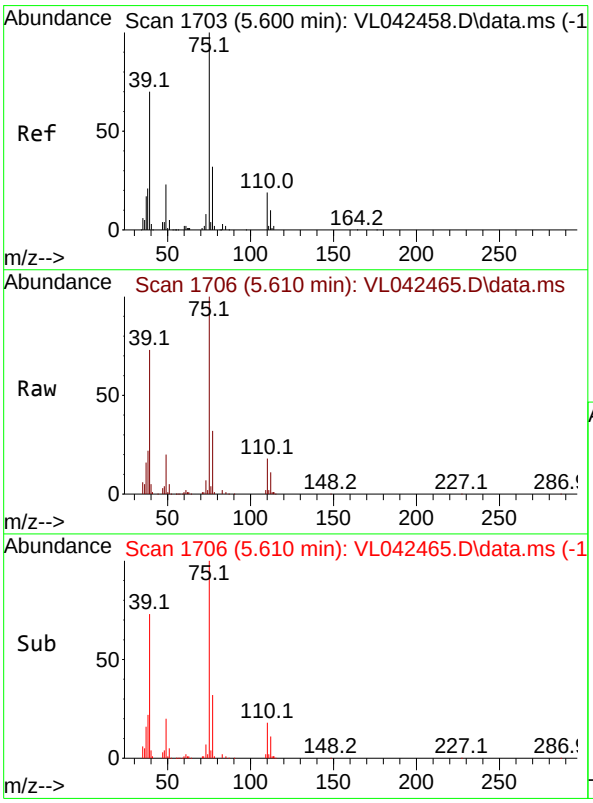
#45
t-1,3-Dichloropropene
Concen: 16.529 ppbv
RT: 6.419 min Scan# 1
Delta R.T. 0.007 min
Lab File: VL042465.D
Acq: 01 May 2025 12:49

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 75 Resp: 136762

Ion	Ratio	Lower	Upper
75	100		
77	28.4	26.3	39.5

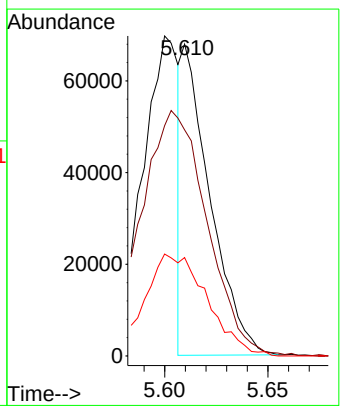


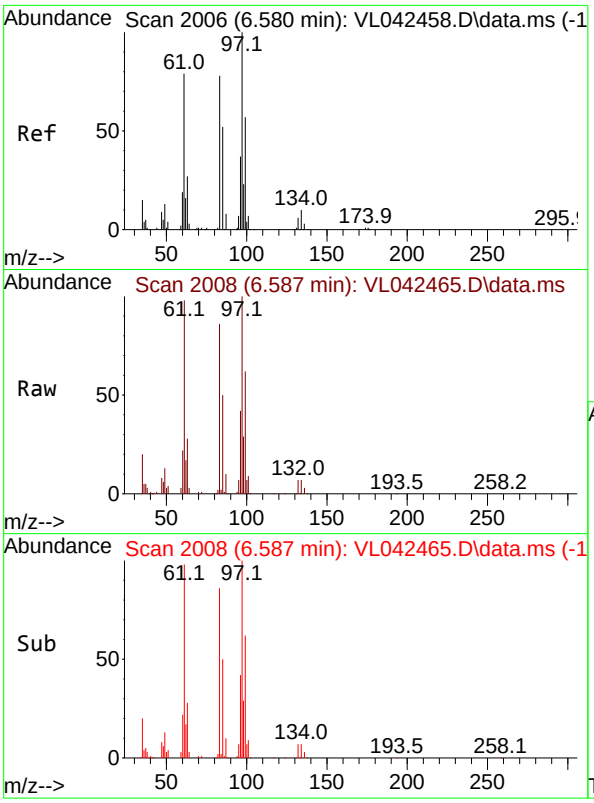


#46
cis-1,3-Dichloropropene
Concen: 6.562 ppbv
RT: 5.610 min Scan# 1706
Delta R.T. 0.010 min
Lab File: VL042465.D
Acq: 01 May 2025 12:49

Tgt Ion: 75 Resp: 64459

Ion	Ratio	Lower	Upper
75	100		
39	71.9	55.7	83.5
77	31.7	25.8	38.8



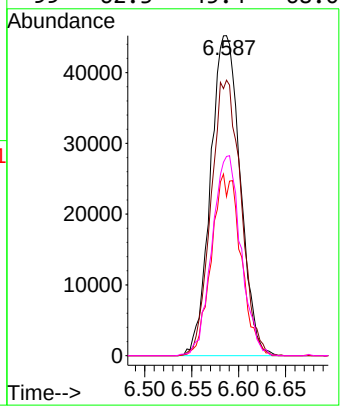


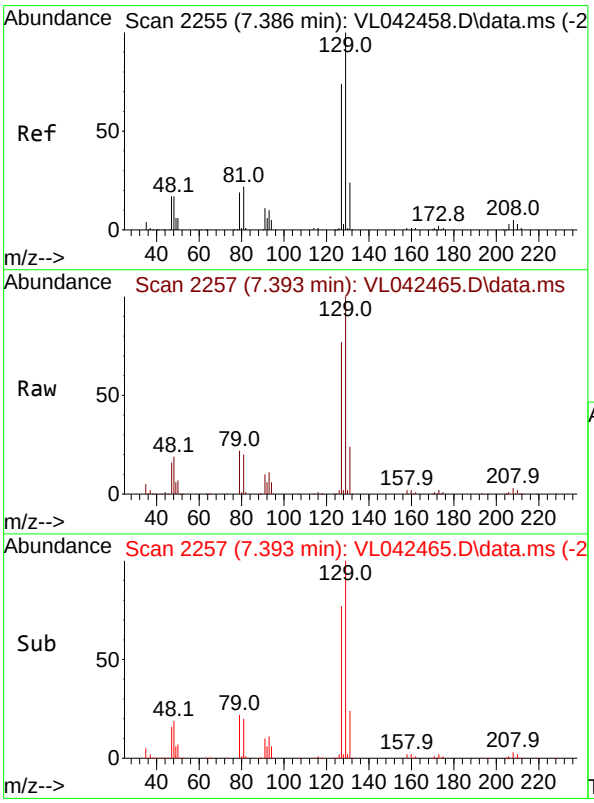
#47
1,1,2-Trichloroethane
Concen: 14.356 ppbv
RT: 6.587 min Scan# 2
Delta R.T. 0.007 min
Lab File: VL042465.D
Acq: 01 May 2025 12:49

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 97 Resp: 99496

Ion	Ratio	Lower	Upper
97	100		
83	86.1	62.2	93.2
85	49.7	41.5	62.3
99	62.3	45.4	68.0

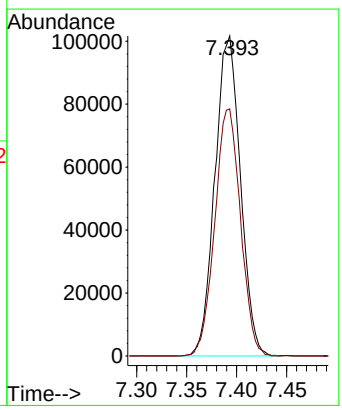


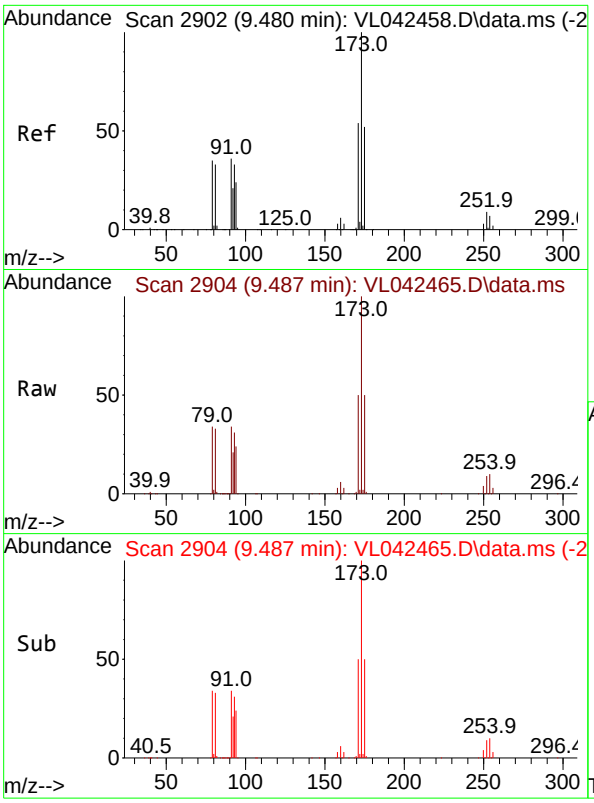


#48
Dibromochloromethane
Concen: 15.468 ppbv
RT: 7.393 min Scan# 2257
Delta R.T. 0.007 min
Lab File: VL042465.D
Acq: 01 May 2025 12:49

Tgt Ion:129 Resp: 180970

Ion	Ratio	Lower	Upper
129	100		
127	77.7	39.5	118.5



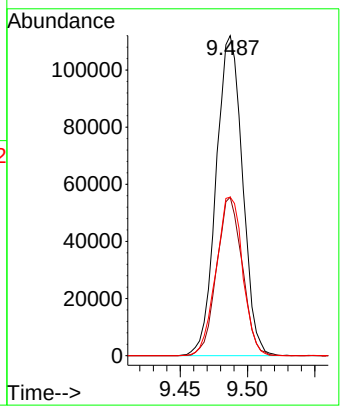


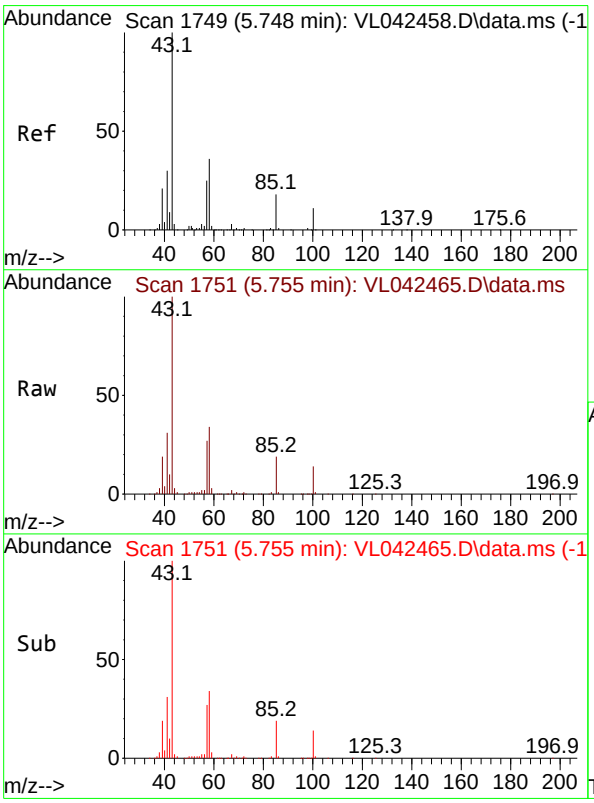
#49
Bromoform
Concen: 15.535 ppbv
RT: 9.487 min Scan# 2
Delta R.T. 0.007 min
Lab File: VL042465.D
Acq: 01 May 2025 12:49

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion:173 Resp: 152440

Ion	Ratio	Lower	Upper
173	100		
175	48.2	38.9	58.3
171	50.0	40.6	60.8

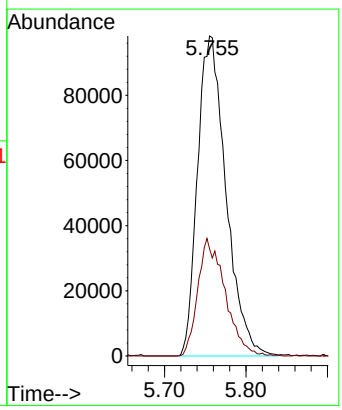


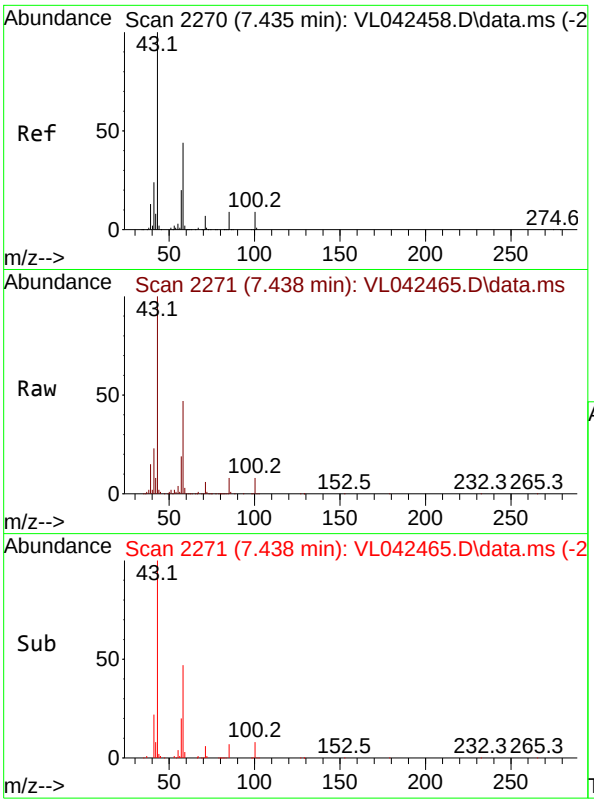


#50
4-Methyl-2-Pentanone
Concen: 14.550 ppbv
RT: 5.755 min Scan# 1751
Delta R.T. 0.007 min
Lab File: VL042465.D
Acq: 01 May 2025 12:49

Tgt Ion: 43 Resp: 237985

Ion	Ratio	Lower	Upper
43	100		
58	35.3	29.5	44.3



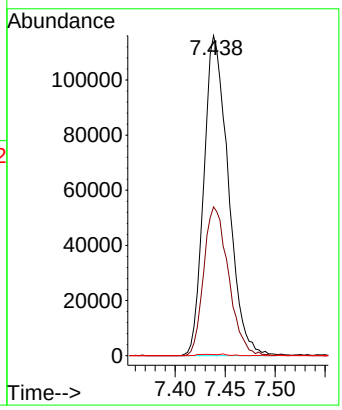


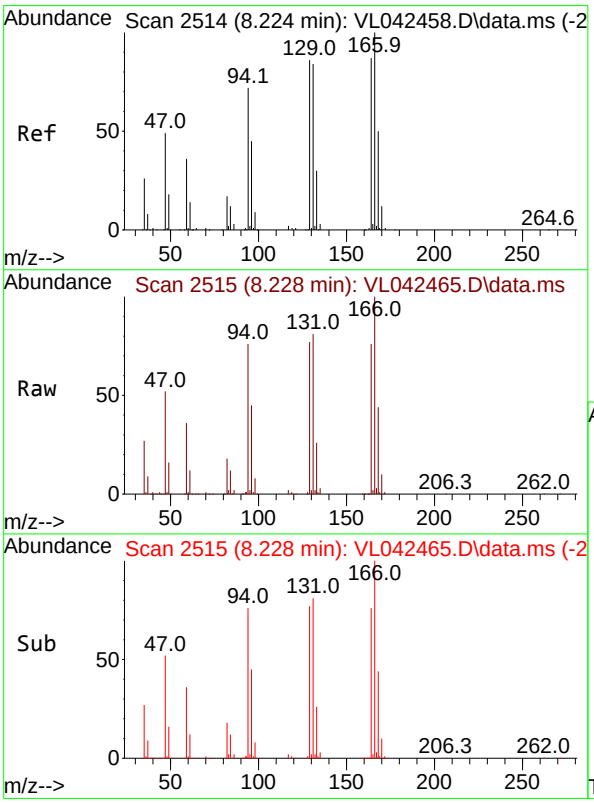
#51
2-Hexanone
Concen: 15.071 ppbv
RT: 7.438 min Scan# 2
Delta R.T. 0.004 min
Lab File: VL042465.D
Acq: 01 May 2025 12:49

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 43 Resp: 197423

Ion	Ratio	Lower	Upper
43	100		
58	47.2	37.2	55.8
98	0.6	0.4	0.6

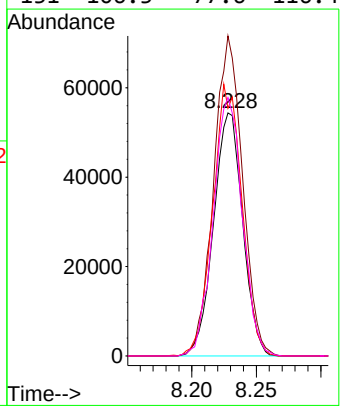


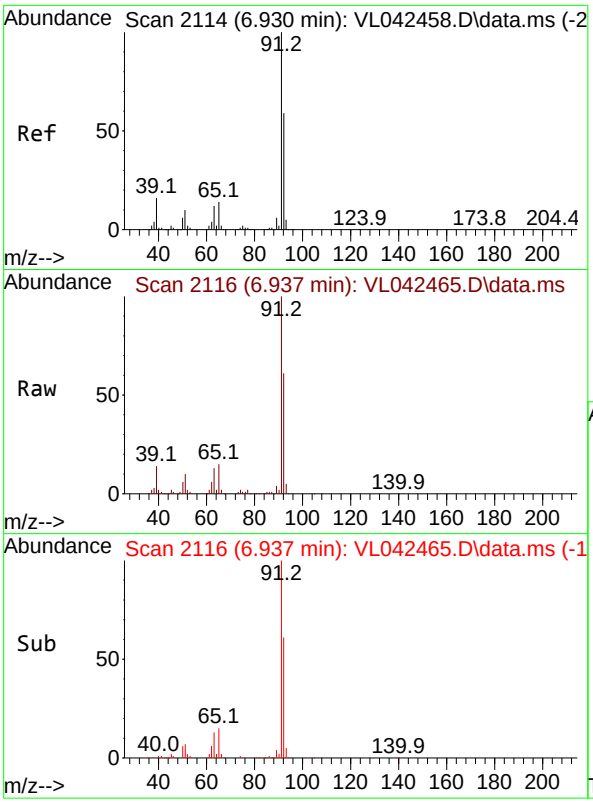


#52
Tetrachloroethene
Concen: 13.272 ppbv
RT: 8.228 min Scan# 2515
Delta R.T. 0.004 min
Lab File: VL042465.D
Acq: 01 May 2025 12:49

Tgt Ion:164 Resp: 85271

Ion	Ratio	Lower	Upper
164	100		
166	131.7	91.6	137.4
129	101.9	79.0	118.4
131	106.3	77.6	116.4



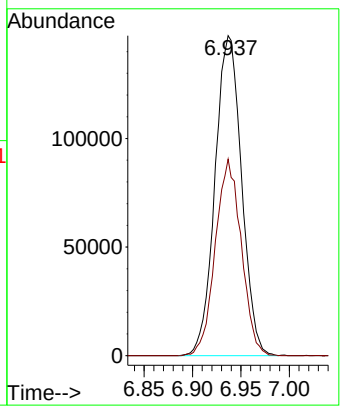


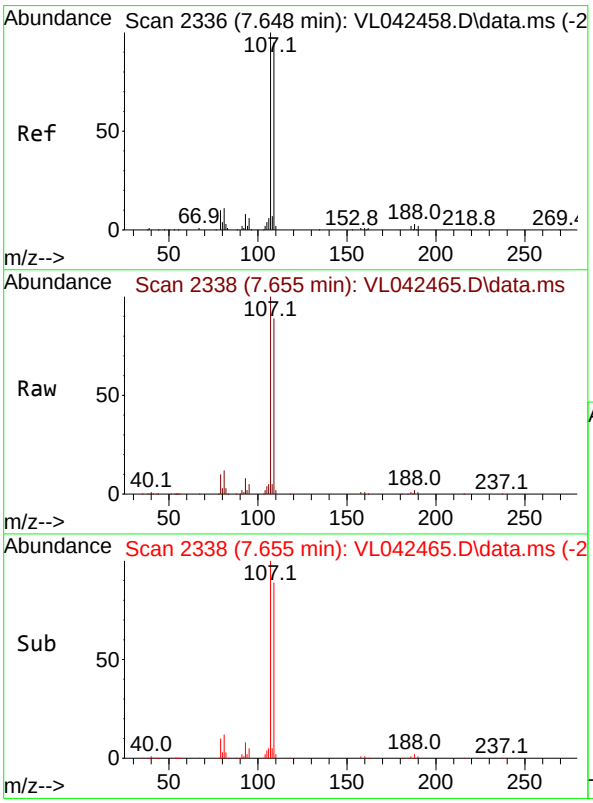
#53
Toluene
Concen: 15.768 ppbv
RT: 6.937 min Scan# 21
Delta R.T. 0.007 min
Lab File: VL042465.D
Acq: 01 May 2025 12:49

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 91 Resp: 281731

Ion	Ratio	Lower	Upper
91	100		
92	59.8	47.9	71.9

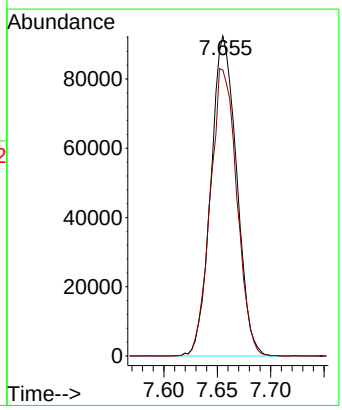


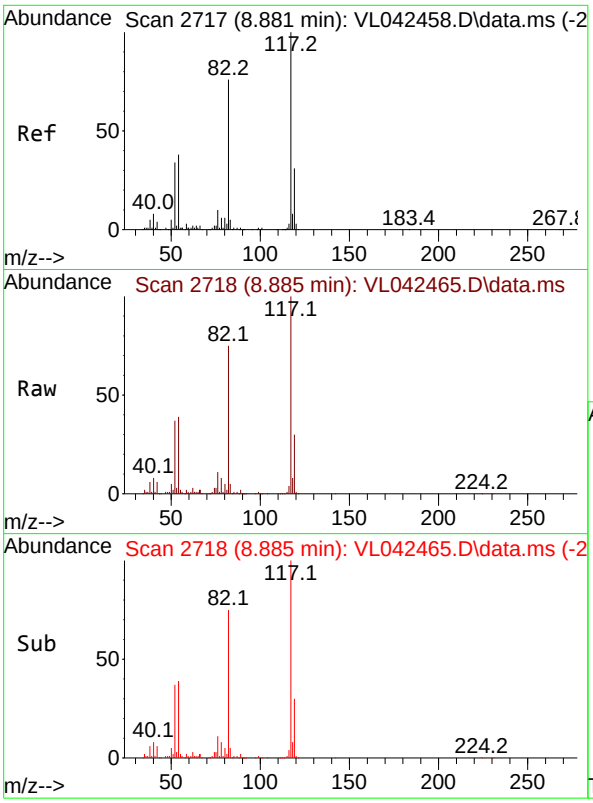


#54
1,2-Dibromoethane
Concen: 14.523 ppbv
RT: 7.655 min Scan# 2338
Delta R.T. 0.007 min
Lab File: VL042465.D
Acq: 01 May 2025 12:49

Tgt Ion:107 Resp: 154739

Ion	Ratio	Lower	Upper
107	100		
109	89.3	76.0	114.0



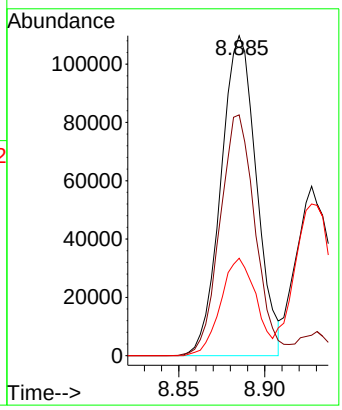


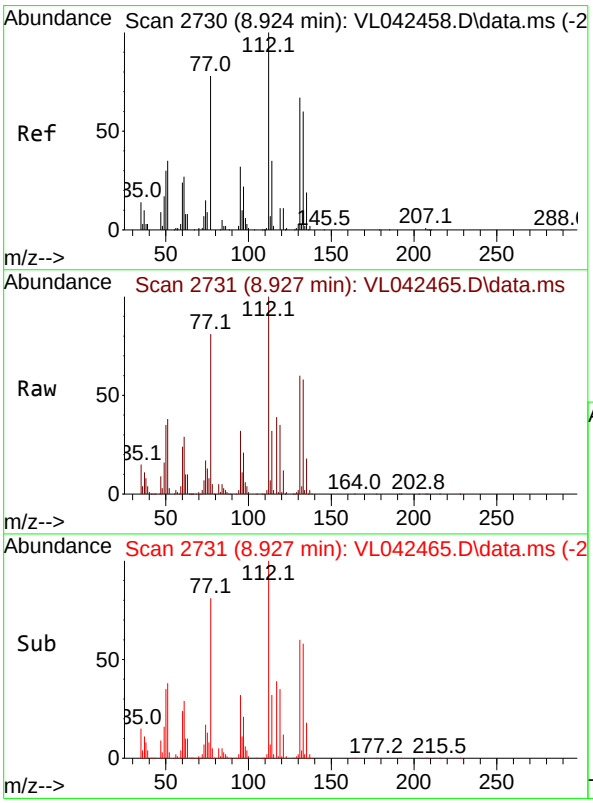
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.885 min Scan# 2
Delta R.T. 0.004 min
Lab File: VL042465.D
Acq: 01 May 2025 12:49

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion:117 Resp: 157673

Ion	Ratio	Lower	Upper
117	100		
82	80.9	63.5	95.3
119	29.8	25.8	38.8

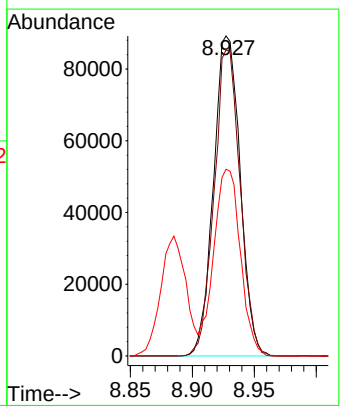


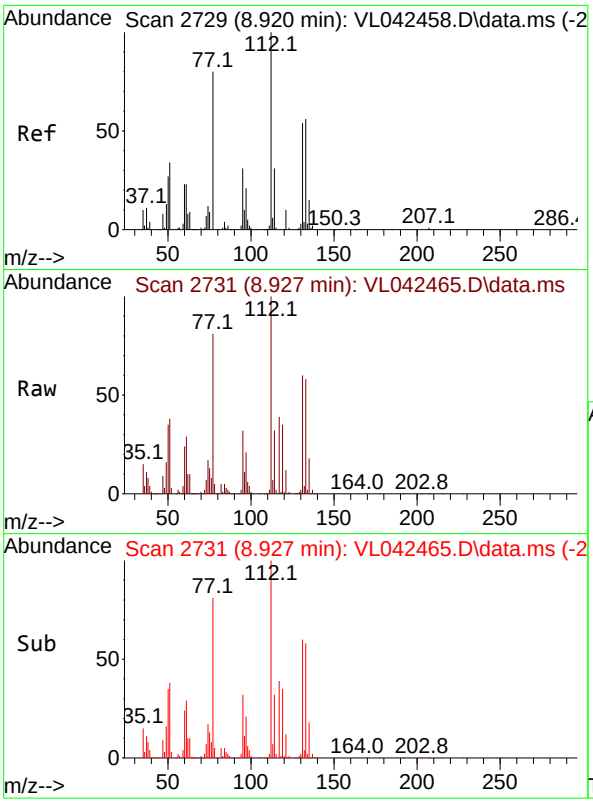


#56
1,1,1,2-Tetrachloroethane
Concen: 14.326 ppbv
RT: 8.927 min Scan# 2731
Delta R.T. 0.004 min
Lab File: VL042465.D
Acq: 01 May 2025 12:49

Tgt Ion:131 Resp: 133410

Ion	Ratio	Lower	Upper
131	100		
133	93.6	76.0	114.0
119	59.4	46.1	69.1



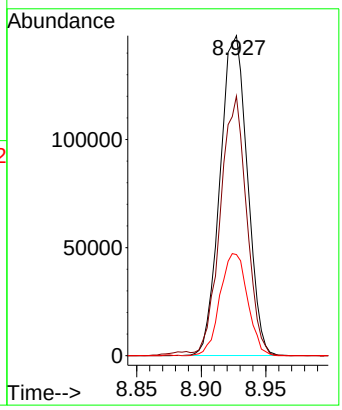


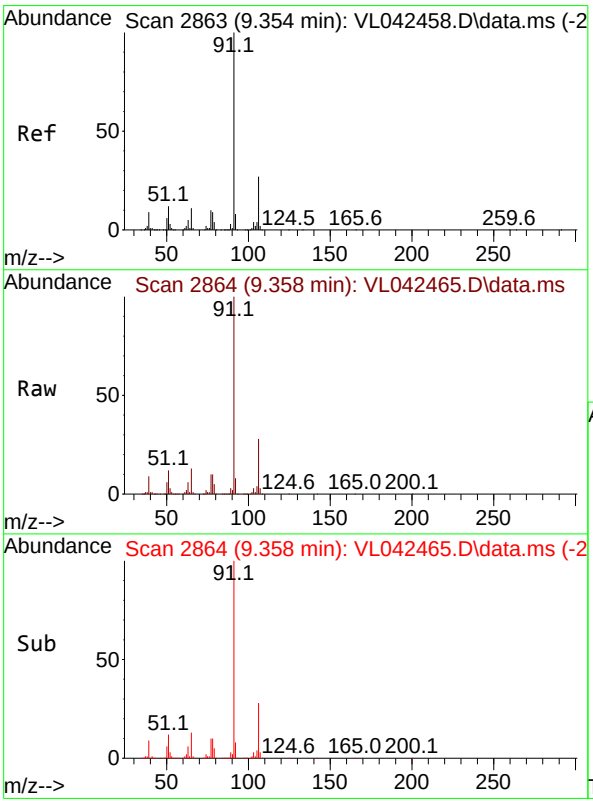
#57
Chlorobenzene
Concen: 13.783 ppbv
RT: 8.927 min Scan# 2
Delta R.T. 0.007 min
Lab File: VL042465.D
Acq: 01 May 2025 12:49

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion:112 Resp: 218370

Ion	Ratio	Lower	Upper
112	100		
77	80.9	65.0	97.4
114	31.6	27.5	33.7

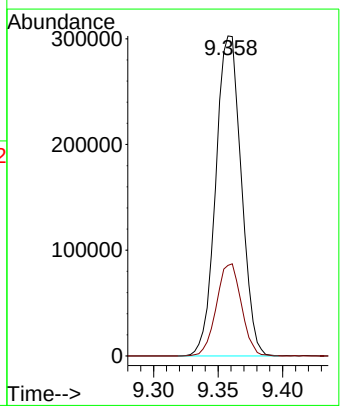


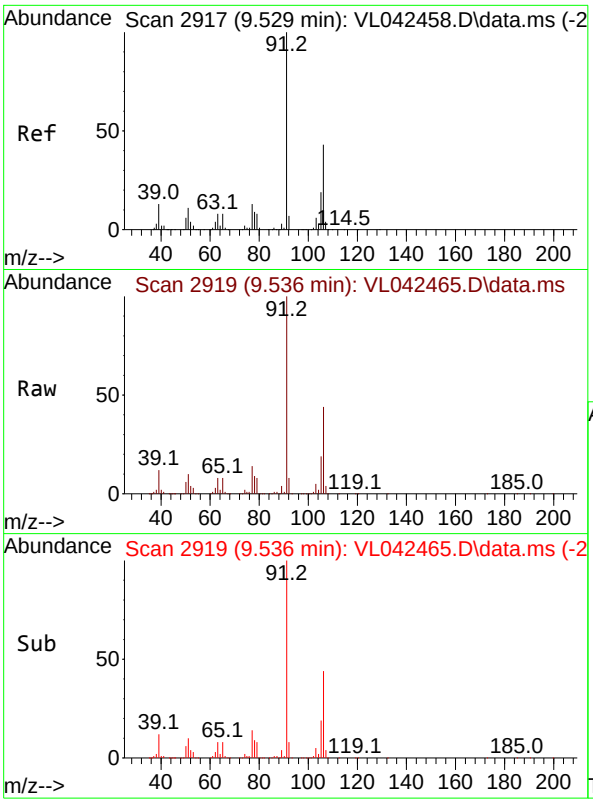


#58
Ethyl Benzene
Concen: 15.743 ppbv
RT: 9.358 min Scan# 2864
Delta R.T. 0.004 min
Lab File: VL042465.D
Acq: 01 May 2025 12:49

Tgt Ion: 91 Resp: 414805

Ion	Ratio	Lower	Upper
91	100		
106	28.3	21.9	32.9



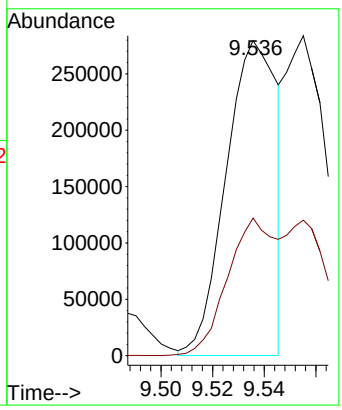


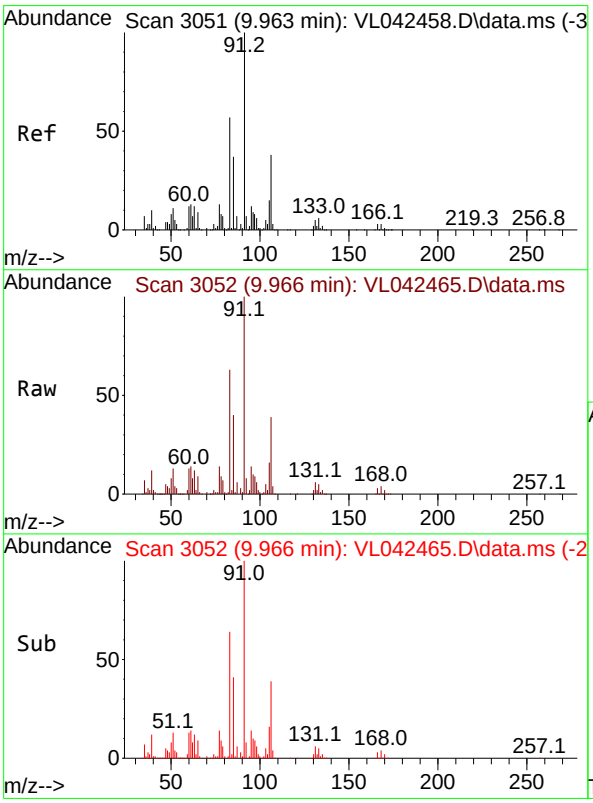
#59
m/p-Xylene
Concen: 17.153 ppbv
RT: 9.536 min Scan# 2
Delta R.T. 0.007 min
Lab File: VL042465.D
Acq: 01 May 2025 12:49

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 91 Resp: 378951

Ion	Ratio	Lower	Upper
91	100		
106	77.9	34.2	51.2#

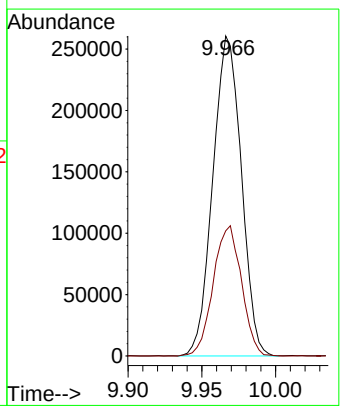


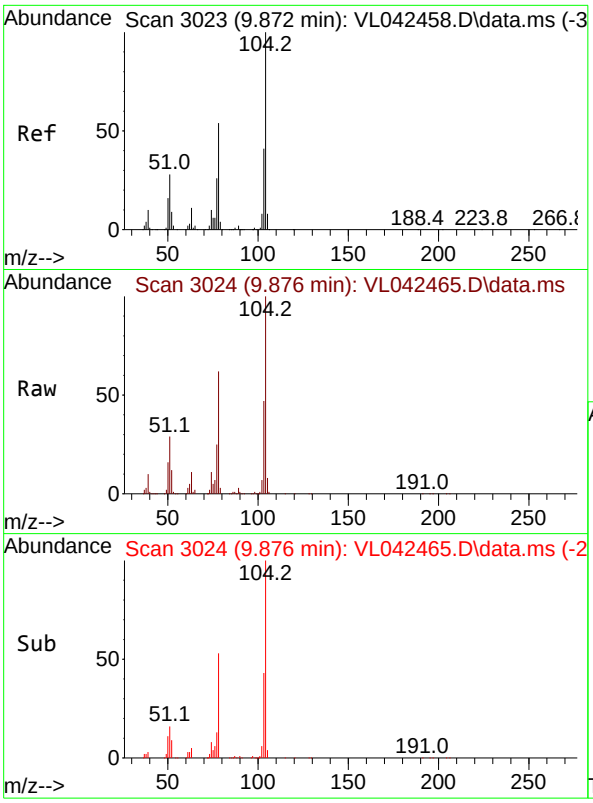


#60
o-Xylene
Concen: 15.863 ppbv
RT: 9.966 min Scan# 3052
Delta R.T. 0.004 min
Lab File: VL042465.D
Acq: 01 May 2025 12:49

Tgt Ion: 91 Resp: 350328

Ion	Ratio	Lower	Upper
91	100		
106	40.3	20.1	60.2



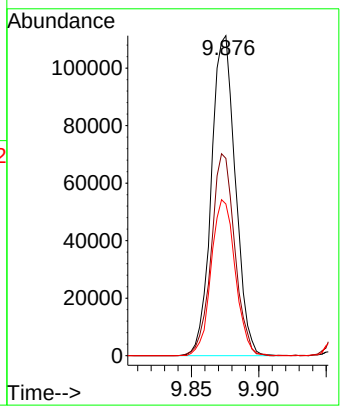


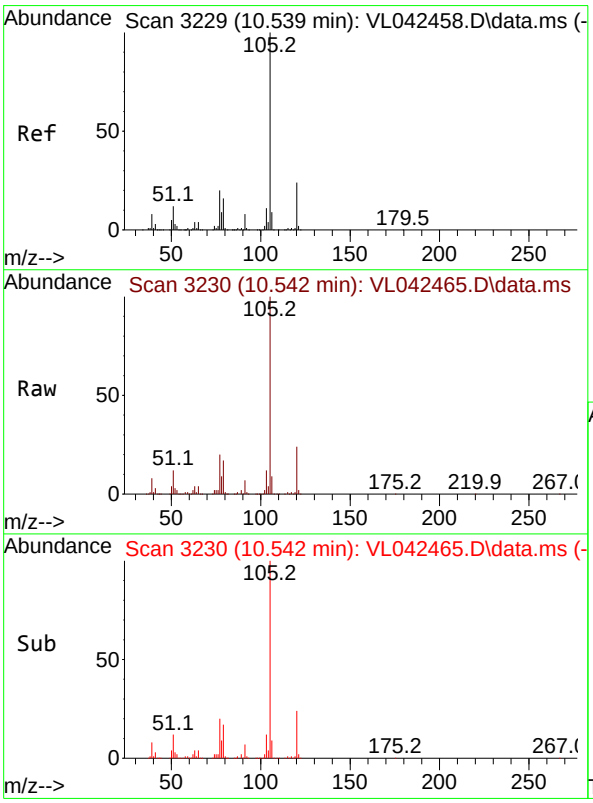
#61
Styrene
Concen: 16.686 ppbv
RT: 9.876 min Scan# 3
Delta R.T. 0.004 min
Lab File: VL042465.D
Acq: 01 May 2025 12:49

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion:104 Resp: 137720

Ion	Ratio	Lower	Upper
104	100		
78	61.6	46.9	70.3
103	49.0	36.6	55.0

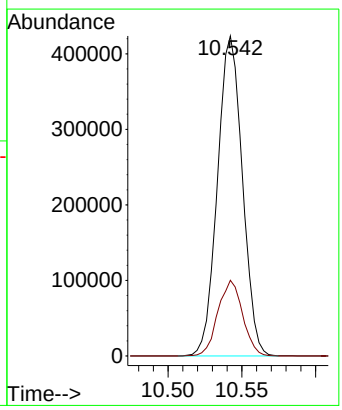


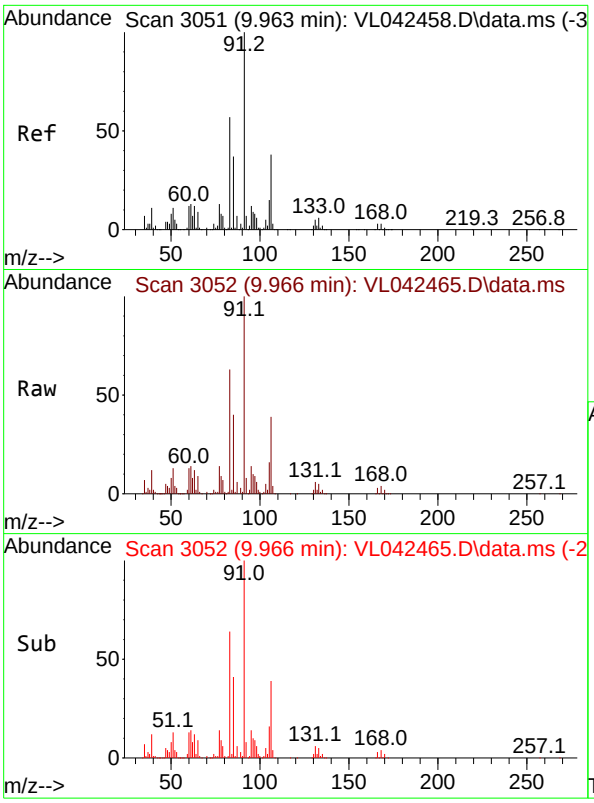


#62
Isopropylbenzene
Concen: 15.629 ppbv
RT: 10.542 min Scan# 3230
Delta R.T. 0.004 min
Lab File: VL042465.D
Acq: 01 May 2025 12:49

Tgt Ion:105 Resp: 498619

Ion	Ratio	Lower	Upper
105	100		
120	23.4	18.8	28.2



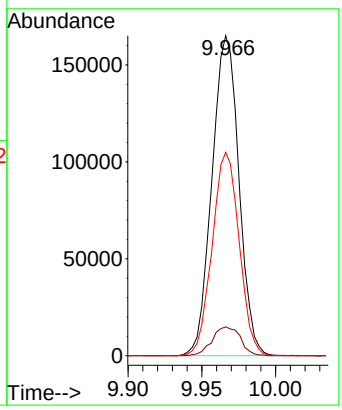


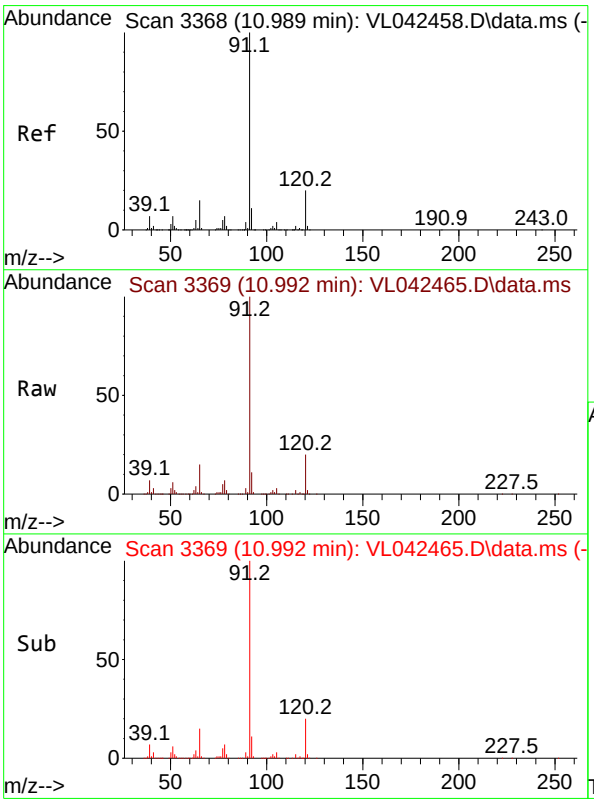
#63
1,1,2,2-Tetrachloroethane
Concen: 14.635 ppbv
RT: 9.966 min Scan# 3
Delta R.T. 0.004 min
Lab File: VL042465.D
Acq: 01 May 2025 12:49

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 83 Resp: 209726

Ion	Ratio	Lower	Upper
83	100		
131	9.4	4.7	14.1
85	63.6	32.5	97.4

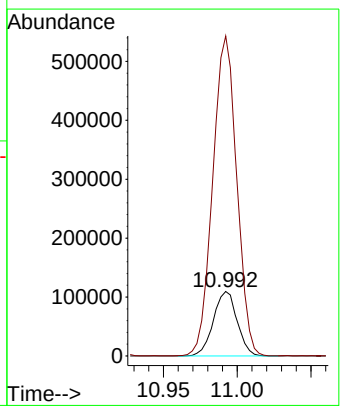


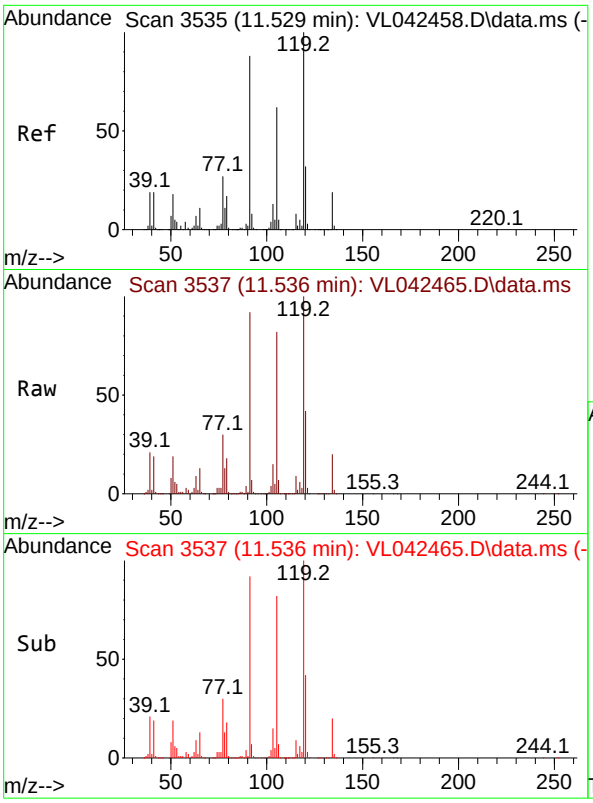


#64
n-propylbenzene
Concen: 15.759 ppbv
RT: 10.992 min Scan# 3369
Delta R.T. 0.004 min
Lab File: VL042465.D
Acq: 01 May 2025 12:49

Tgt Ion:120 Resp: 122452

Ion	Ratio	Lower	Upper
120	100		
91	501.8	408.6	612.8



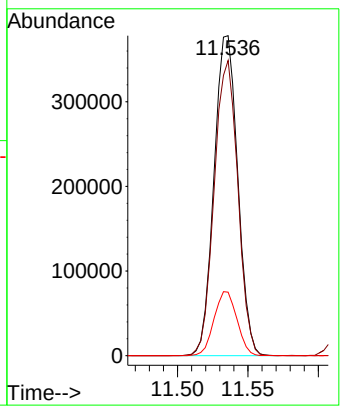


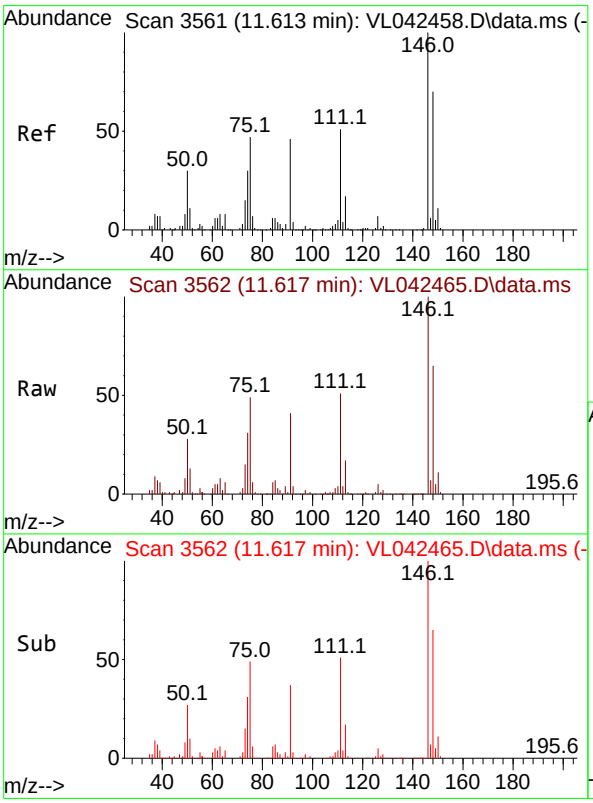
#65
tert-Butylbenzene
Concen: 15.562 ppbv
RT: 11.536 min Scan# 3
Delta R.T. 0.007 min
Lab File: VL042465.D
Acq: 01 May 2025 12:49

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion:119 Resp: 443042

Ion	Ratio	Lower	Upper
119	100		
91	92.0	71.6	107.4
134	19.4	15.0	22.4

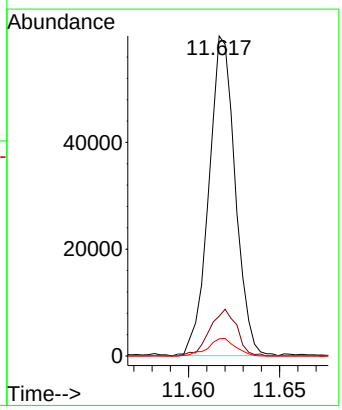


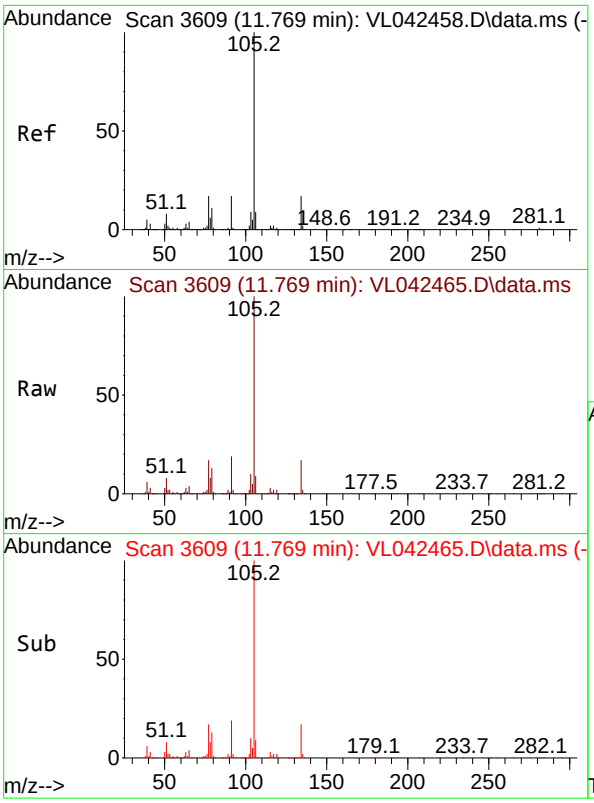


#66
Benzyl Chloride
Concen: 18.348 ppbv
RT: 11.617 min Scan# 3562
Delta R.T. 0.004 min
Lab File: VL042465.D
Acq: 01 May 2025 12:49

Tgt Ion: 91 Resp: 60376

Ion	Ratio	Lower	Upper
91	100		
126	15.0	13.3	19.9
128	5.7	4.2	6.4



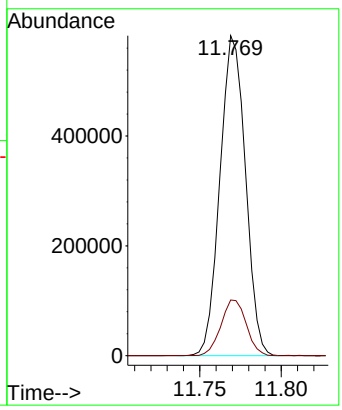


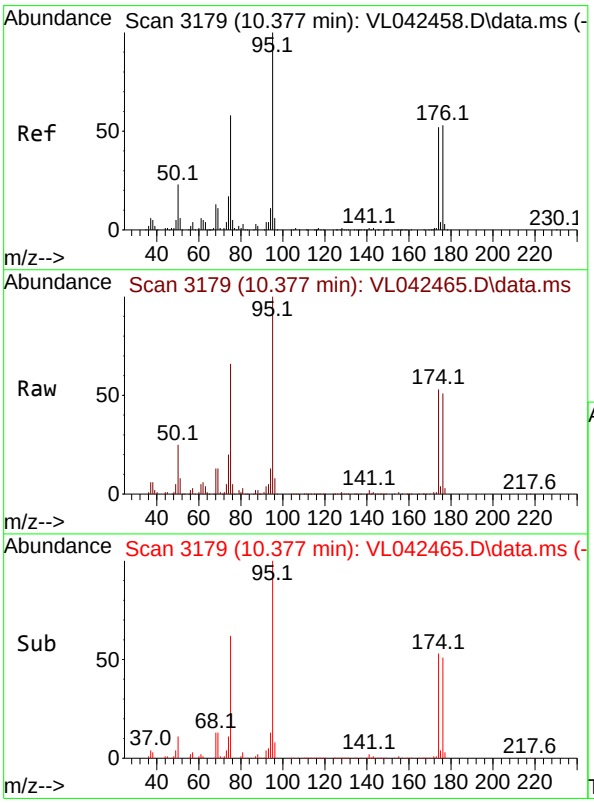
#67
sec-Butylbenzene
Concen: 15.636 ppbv
RT: 11.769 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042465.D
Acq: 01 May 2025 12:49

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion:105 Resp: 632600

Ion	Ratio	Lower	Upper
105	100		
134	17.4	14.1	21.1

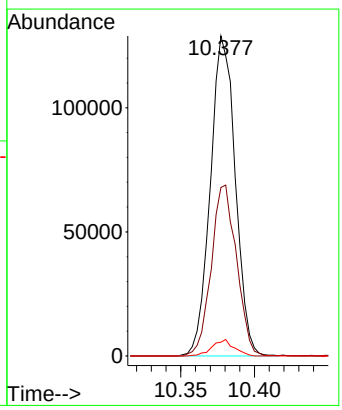


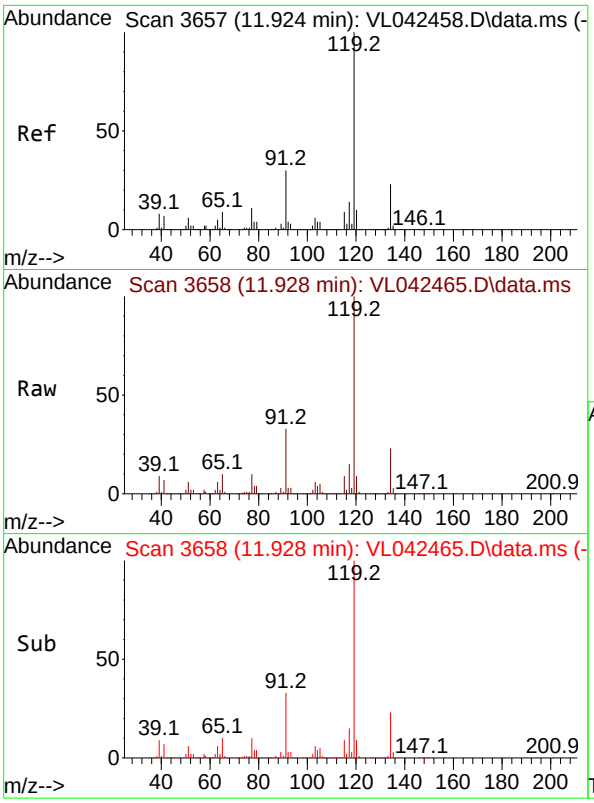


#68
1-Bromo-4-Fluorobenzene
Concen: 10.387 ppbv
RT: 10.377 min Scan# 3179
Delta R.T. 0.000 min
Lab File: VL042465.D
Acq: 01 May 2025 12:49

Tgt Ion: 95 Resp: 151837

Ion	Ratio	Lower	Upper
95	100		
174	54.0	42.7	64.1
175	4.5	3.6	5.4



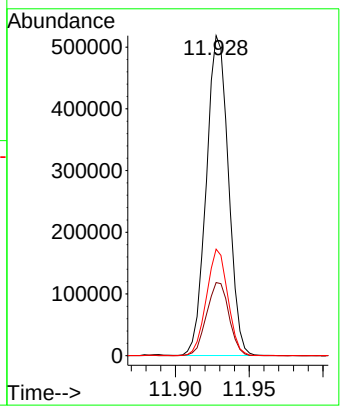


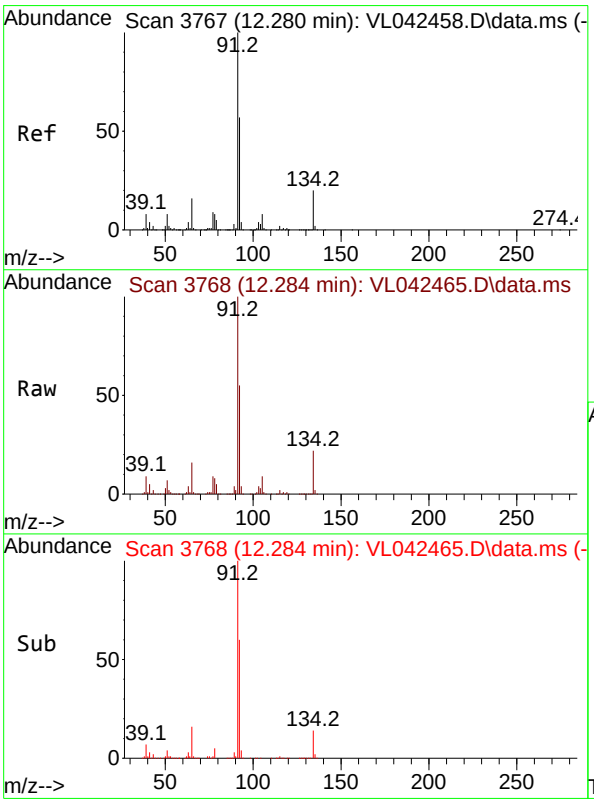
#69
p-Isopropyltoluene
Concen: 15.837 ppbv
RT: 11.928 min Scan# 3
Delta R.T. 0.004 min
Lab File: VL042465.D
Acq: 01 May 2025 12:49

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion:119 Resp: 539860

Ion	Ratio	Lower	Upper
119	100		
134	23.2	19.0	28.4
91	32.5	25.5	38.3

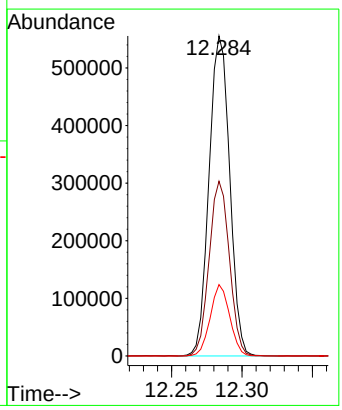


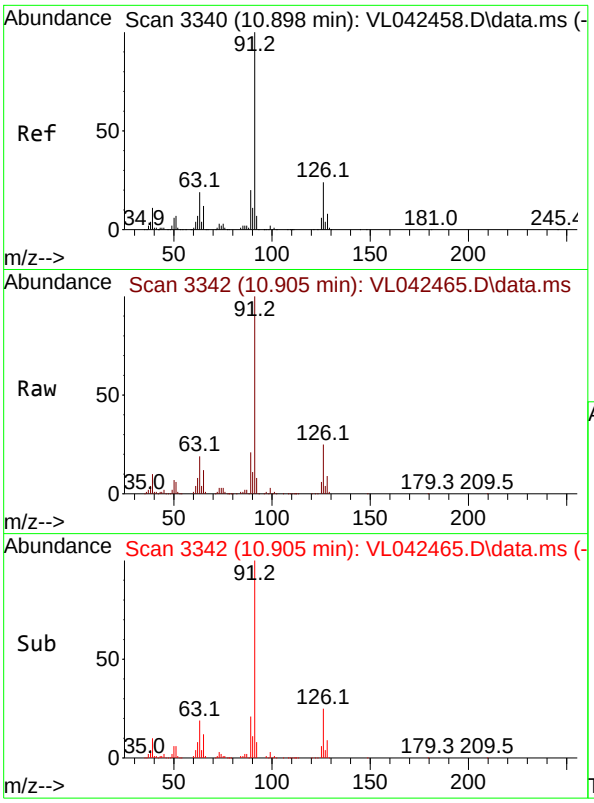


#70
n-Butylbenzene
Concen: 16.084 ppbv
RT: 12.284 min Scan# 3768
Delta R.T. 0.004 min
Lab File: VL042465.D
Acq: 01 May 2025 12:49

Tgt Ion: 91 Resp: 566780

Ion	Ratio	Lower	Upper
91	100		
92	53.7	44.0	66.0
134	21.0	16.8	25.2



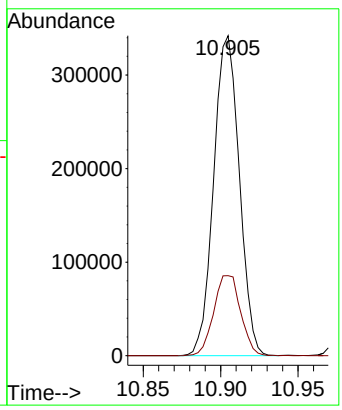


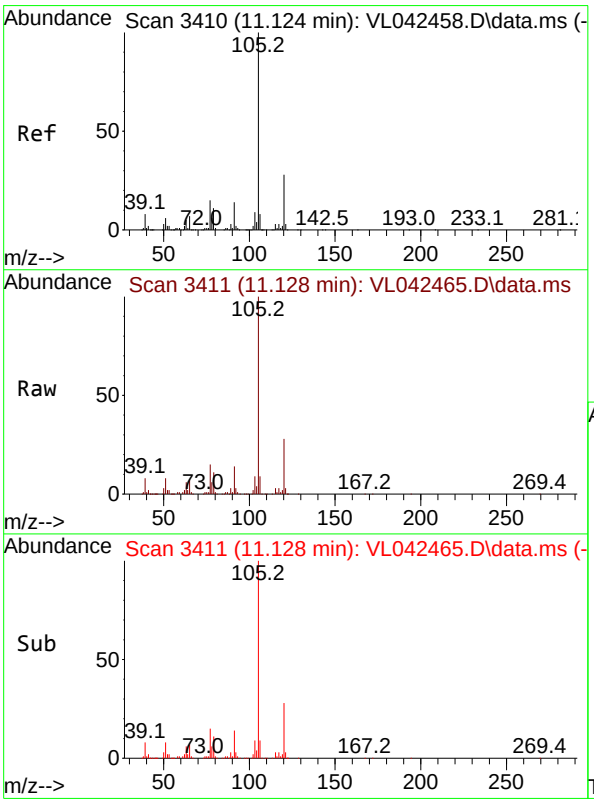
#71
2-Chlorotoluene
Concen: 15.755 ppbv
RT: 10.905 min Scan# 3
Delta R.T. 0.007 min
Lab File: VL042465.D
Acq: 01 May 2025 12:49

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 91 Resp: 394227

Ion	Ratio	Lower	Upper
91	100		
126	26.2	10.6	42.2

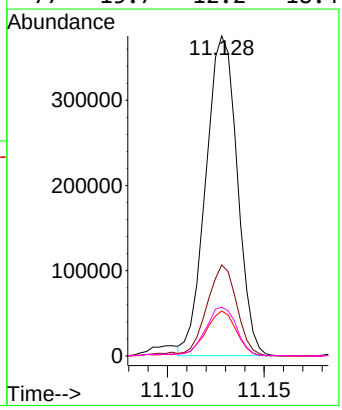


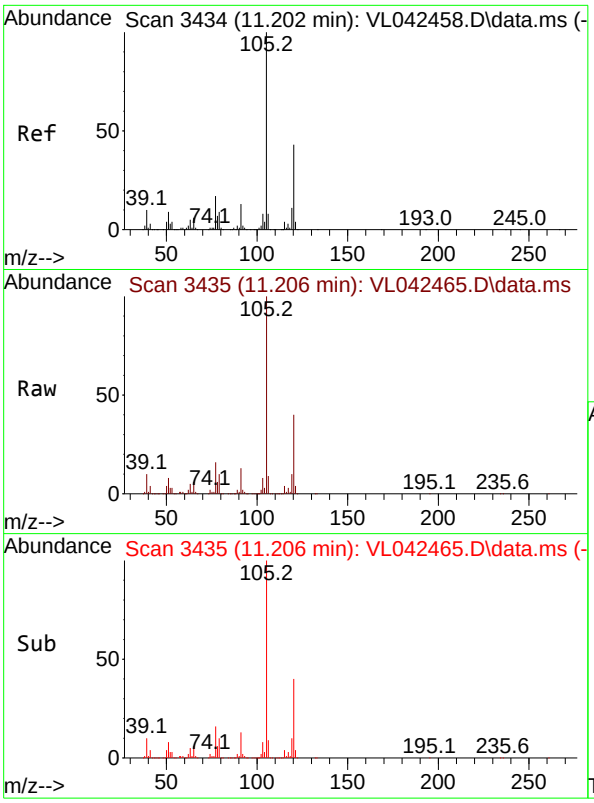


#72
4-Ethyltoluene
Concen: 16.250 ppbv
RT: 11.128 min Scan# 3411
Delta R.T. 0.004 min
Lab File: VL042465.D
Acq: 01 May 2025 12:49

Tgt Ion:105 Resp: 423746

Ion	Ratio	Lower	Upper
105	100		
120	27.9	22.0	33.0
91	14.2	11.2	16.8
77	15.7	12.2	18.4



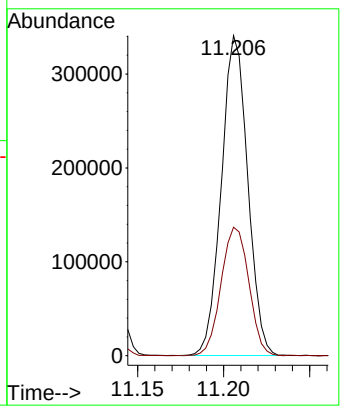


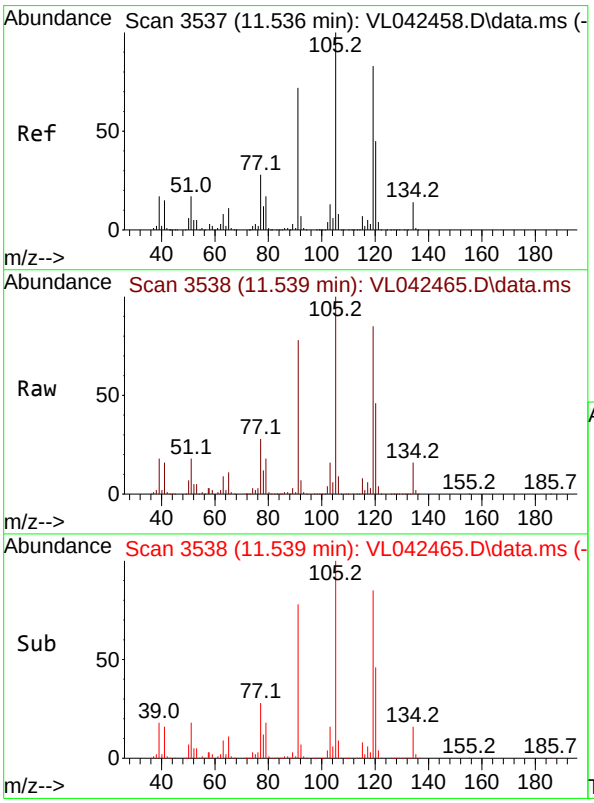
#73
1,3,5-Trimethylbenzene
Concen: 15.826 ppbv
RT: 11.206 min Scan# 34
Delta R.T. 0.004 min
Lab File: VL042465.D
Acq: 01 May 2025 12:49

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion:105 Resp: 362951

Ion	Ratio	Lower	Upper
105	100		
120	40.1	34.4	51.6

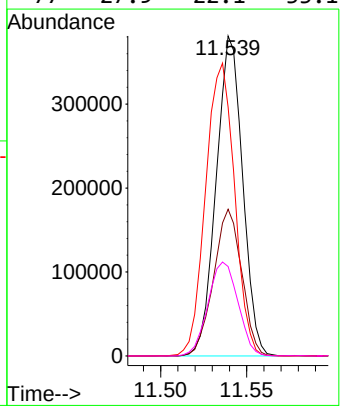


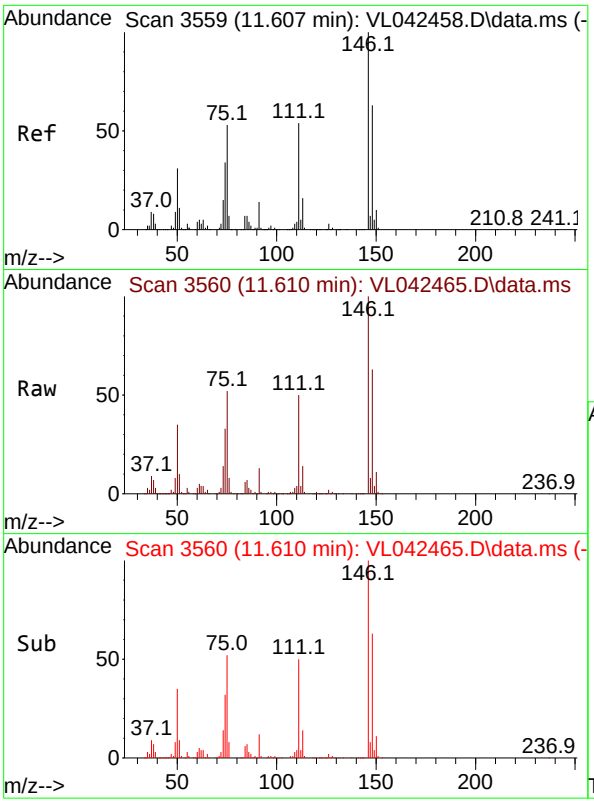


#74
1,2,4-Trimethylbenzene
Concen: 14.683 ppbv
RT: 11.539 min Scan# 3538
Delta R.T. 0.004 min
Lab File: VL042465.D
Acq: 01 May 2025 12:49

Tgt Ion:105 Resp: 407416

Ion	Ratio	Lower	Upper
105	100		
120	45.8	36.1	54.1
91	77.7	57.6	86.4
77	27.9	22.1	33.1



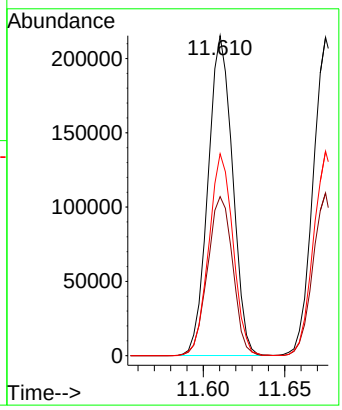


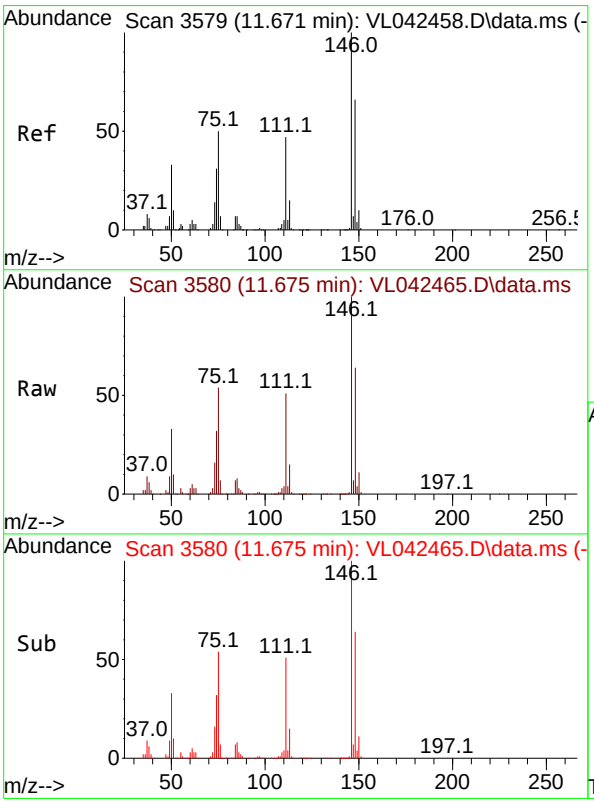
#75
1,3-Dichlorobenzene
Concen: 14.579 ppbv
RT: 11.610 min Scan# 3
Delta R.T. 0.004 min
Lab File: VL042465.D
Acq: 01 May 2025 12:49

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion:146 Resp: 225215

Ion	Ratio	Lower	Upper
146	100		
111	50.9	26.1	78.3
148	62.5	32.0	96.0

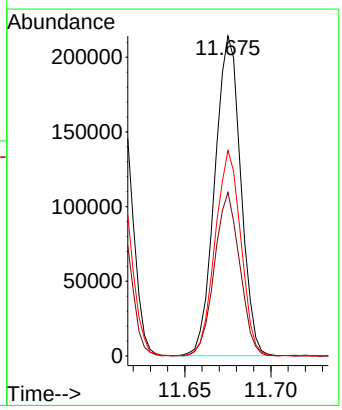


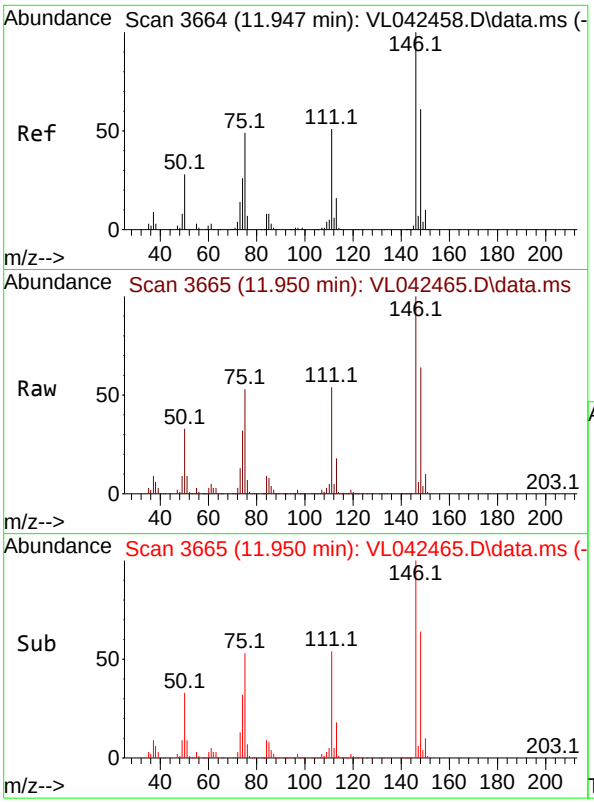


#76
1,4-Dichlorobenzene
Concen: 15.357 ppbv
RT: 11.675 min Scan# 3580
Delta R.T. 0.004 min
Lab File: VL042465.D
Acq: 01 May 2025 12:49

Tgt Ion:146 Resp: 224505

Ion	Ratio	Lower	Upper
146	100		
111	50.0	24.4	73.2
148	64.0	32.0	96.2



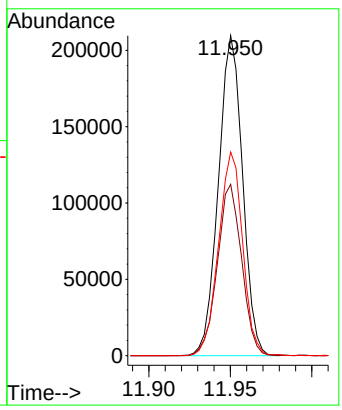


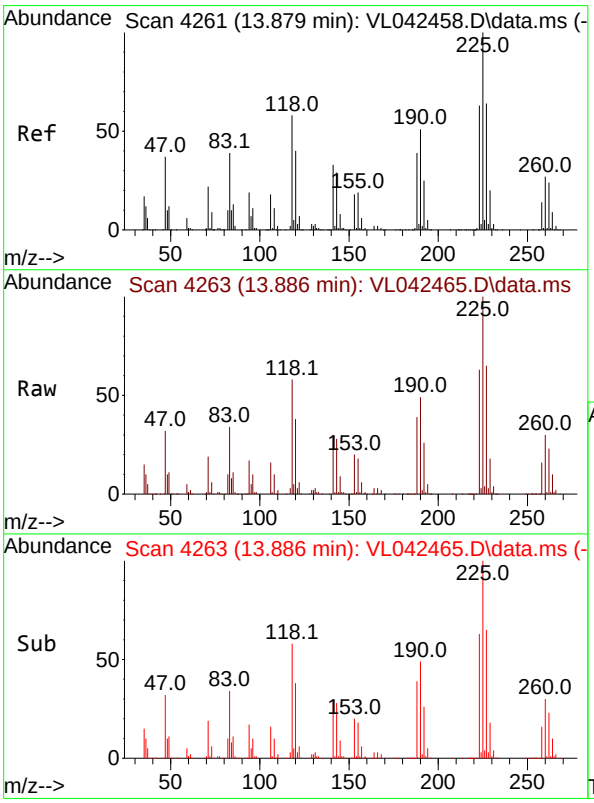
#77
1,2-Dichlorobenzene
Concen: 14.295 ppbv
RT: 11.950 min Scan# 3
Delta R.T. 0.004 min
Lab File: VL042465.D
Acq: 01 May 2025 12:49

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion:146 Resp: 216147

Ion	Ratio	Lower	Upper
146	100		
111	53.9	26.5	79.5
148	63.3	31.5	94.5

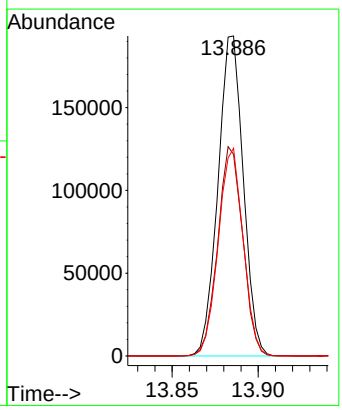


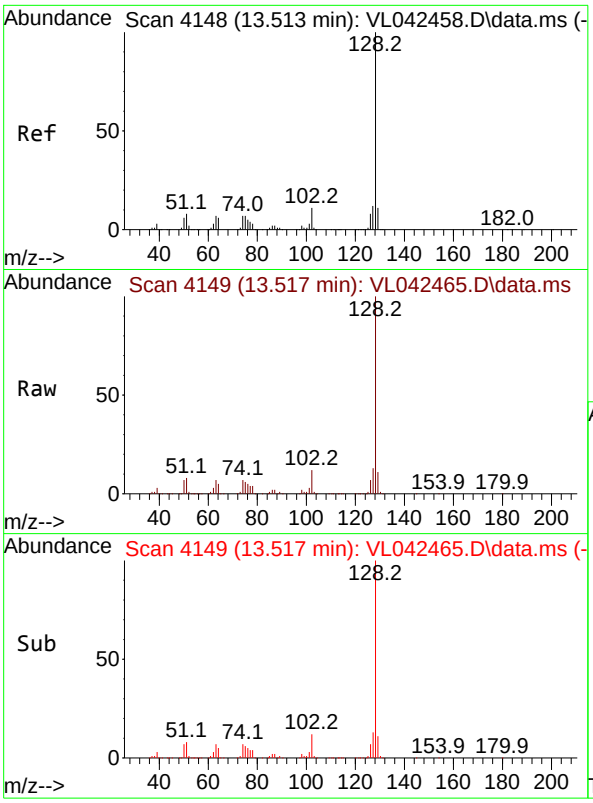


#78
Hexachloro-1,3-Butadiene
Concen: 13.121 ppbv
RT: 13.886 min Scan# 4263
Delta R.T. 0.007 min
Lab File: VL042465.D
Acq: 01 May 2025 12:49

Tgt Ion:225 Resp: 198112

Ion	Ratio	Lower	Upper
225	100		
223	64.5	50.2	75.4
227	63.6	51.2	76.8



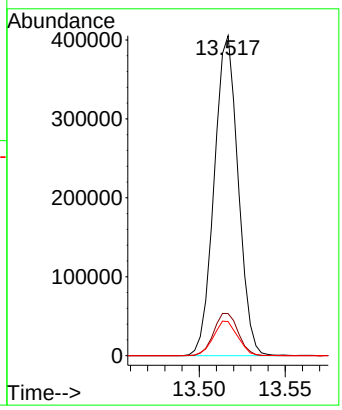


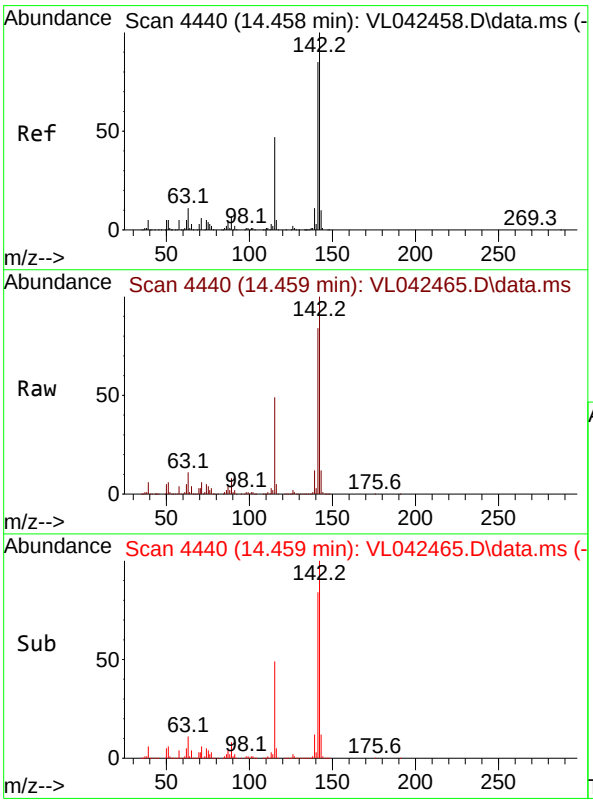
#79
Naphthalene
Concen: 16.888 ppbv
RT: 13.517 min Scan# 41
Delta R.T. 0.004 min
Lab File: VL042465.D
Acq: 01 May 2025 12:49

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion:128 Resp: 392900

Ion	Ratio	Lower	Upper
128	100		
127	13.2	9.7	14.5
129	10.6	8.6	13.0

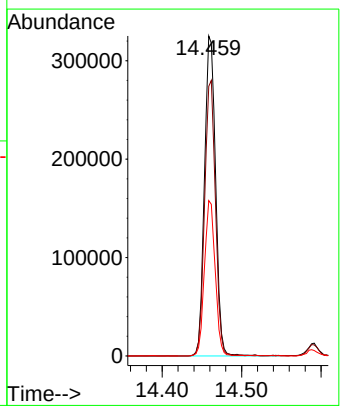


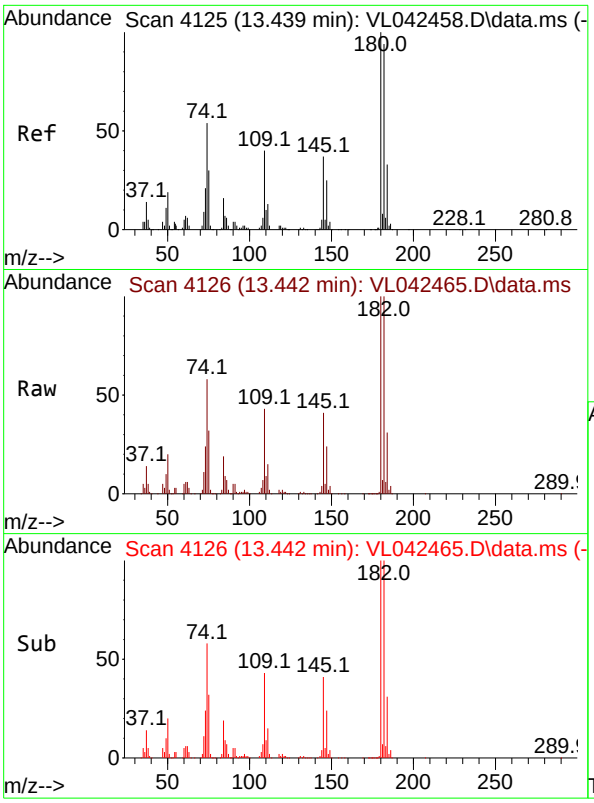


#80
Naphthalene,2-methyl-
Concen: 18.232 ppbv
RT: 14.459 min Scan# 4440
Delta R.T. 0.000 min
Lab File: VL042465.D
Acq: 01 May 2025 12:49

Tgt Ion:142 Resp: 316493

Ion	Ratio	Lower	Upper
142	100		
141	84.6	67.4	101.0
115	47.5	36.9	55.3



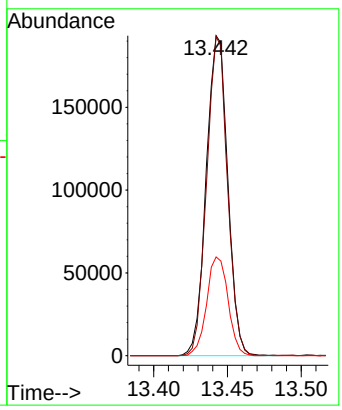


#81
1,2,4-Trichlorobenzene
Concen: 15.728 ppbv
RT: 13.442 min Scan# 4
Delta R.T. 0.004 min
Lab File: VL042465.D
Acq: 01 May 2025 12:49

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion:180 Resp: 195942

Ion	Ratio	Lower	Upper
180	100		
182	96.2	74.6	111.8
184	30.6	24.9	37.3



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050125\
Data File : VL042466.D
Acq On : 01 May 2025 14:10
Operator : SY/MD
Sample : VSTDICC0.03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Quant Time: May 02 01:46:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri May 02 01:37:48 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.791	49	66546	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	186737	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	161050	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.380	95	148088	9.918	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 99.200%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	520	0.047	ppbv #	55
3) Chlorodifluoromethane	1.476	51	723	0.062	ppbv #	82
4) Chloromethane	1.535	50	208	0.045	ppbv #	53
5) Vinyl Chloride	1.580	62	151	0.033	ppbv #	87
6) Bromomethane	1.674	94	151	0.069	ppbv #	70
7) Chloroethane	1.703	64	89	0.052	ppbv #	43
8) Dichlorotetrafluoroethane	1.551	85	314	0.035	ppbv #	73
9) Propene	1.483	41	181	0.048	ppbv #	1
10) Heptane	4.982	43	134	0.014	ppbv #	49
11) Trichlorofluoromethane	1.881	101	398	0.041	ppbv	97
12) 1,1,2-Trichlorotrifluo...	2.137	101	238	0.029	ppbv #	16
13) Ethanol	1.891	45	576	0.745	ppbv #	37
14) Bromoethene	1.787	108	142	0.047	ppbv #	1
15) Acetone	1.839	43	1241	0.102	ppbv #	70
16) 1,3-Butadiene	1.606	39	249	0.046	ppbv #	51
17) tert-Butyl alcohol	2.046	59	565	0.053	ppbv #	79
18) 1,1-Dichloroethene	2.033	96	181	0.048	ppbv #	2
19) Isopropyl Alcohol	1.891	45	576	0.086	ppbv #	1
20) Methylene Chloride	2.062	84	763	0.209	ppbv #	91
21) Allyl Chloride	2.104	41	163	0.021	ppbv #	21
22) trans-1,2-Dichloroethene	2.347	96	57	0.013	ppbv	87
23) Vinyl Acetate	2.467	43	448	0.040	ppbv #	82
24) 1,1-Dichloroethane	2.412	63	353	0.039	ppbv #	90
25) Ethyl Acetate	2.842	43	145	0.007	ppbv #	75
26) Hexane	2.823	57	422	0.050	ppbv #	62
27) Carbon Disulfide	2.146	76	308	0.031	ppbv #	1
28) Methyl tert-Butyl Ether	2.441	73	23	0.005	ppbv #	1
29) Chloroform	2.794	83	33	0.002	ppbv	89
30) Cyclohexane	3.859	84	84	0.012	ppbv #	1
31) cis-1,2-Dichloroethene	2.729	61	37	0.004	ppbv #	1
32) 1,1,1-Trichloroethane	3.380	97	233	0.014	ppbv #	1
34) 2-Butanone	2.567	43	633	0.047	ppbv #	90
35) Carbon Tetrachloride	3.771	117	501	0.031	ppbv #	34
36) Benzene	3.655	78	265	0.015	ppbv #	70
37) 1,2-Dichloroethane	3.227	62	190	0.014	ppbv #	84
38) Trichloroethene	4.551	130	135	0.020	ppbv #	40
39) 1,2-Dichloropropane	3.962	63	53226	8.063	ppbv #	21
40) 1,4-Dioxane	4.603	88	36	0.012	ppbv #	100
41) Tetrahydrofuran	3.059	42	22	0.003	ppbv #	34
42) Bromodichloromethane	4.496	83	405	0.024	ppbv #	66
43) Methyl Methacrylate	4.888	69	18	0.003	ppbv #	1
44) 2,2,4-Trimethylpentane	4.645	57	259	0.009	ppbv #	1
45) t-1,3-Dichloropropene	6.432	75	77	0.009	ppbv #	72

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050125\
Data File : VL042466.D
Acq On : 01 May 2025 14:10
Operator : SY/MD
Sample : VSTDICC0.03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Quant Time: May 02 01:46:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri May 02 01:37:48 2025
Response via : Initial Calibration

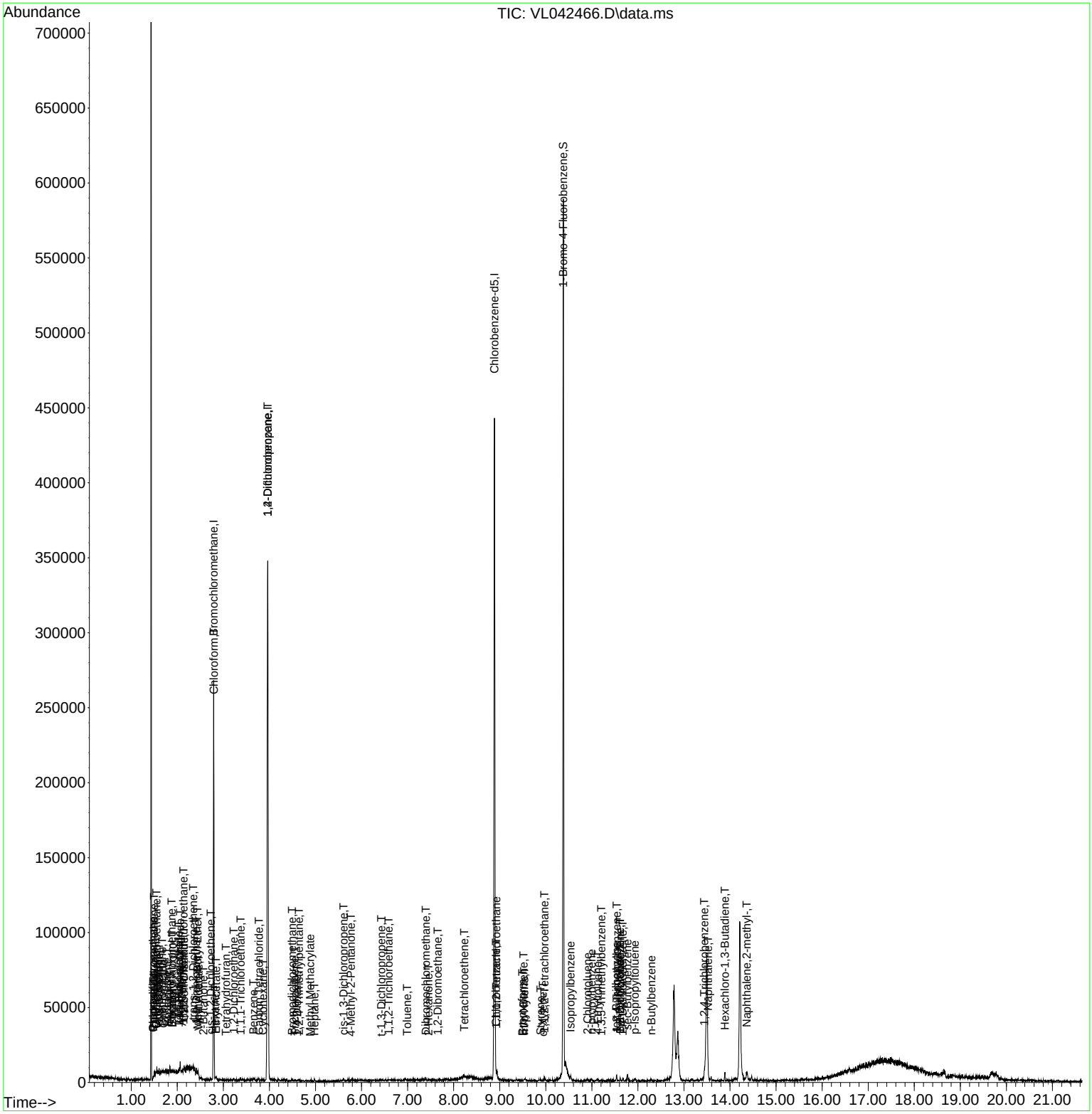
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) cis-1,3-Dichloropropene	5.613	75	158	0.015	ppbv	#	77
47) 1,1,2-Trichloroethane	6.590	97	98	0.014	ppbv	#	52
48) Dibromochloromethane	7.399	129	75	0.006	ppbv	#	10
49) Bromoform	9.490	173	176	0.017	ppbv	#	28
50) 4-Methyl-2-Pentanone	5.771	43	74	0.004	ppbv	#	48
51) 2-Hexanone	7.451	43	10	0.001	ppbv	#	31
52) Tetrachloroethene	8.231	164	176	0.026	ppbv	#	42
53) Toluene	6.988	91	51	0.003	ppbv		91
54) 1,2-Dibromoethane	7.655	107	110	0.010	ppbv		97
56) 1,1,1,2-Tetrachloroethane	8.924	131	100	0.011	ppbv	#	10
57) Chlorobenzene	8.921	112	413	0.026	ppbv	#	59
58) Ethyl Benzene	9.519	91	94	0.003	ppbv		95
59) m/p-Xylene	9.532	91	367	0.016	ppbv	#	33
60) o-Xylene	9.940	91	59	0.003	ppbv		88
61) Styrene	9.888	104	103	0.012	ppbv	#	44
62) Isopropylbenzene	10.539	105	978	0.030	ppbv		95
63) 1,1,2,2-Tetrachloroethane	9.973	83	354	0.024	ppbv	#	67
64) n-propylbenzene	10.995	120	70	0.009	ppbv	#	1
65) tert-Butylbenzene	11.533	119	355	0.012	ppbv	#	10
66) Benzyl Chloride	11.617	91	55	0.016	ppbv	#	67
67) sec-Butylbenzene	11.772	105	635	0.015	ppbv	#	90
69) p-Isopropyltoluene	11.934	119	606	0.017	ppbv	#	74
70) n-Butylbenzene	12.290	91	192	0.005	ppbv	#	44
71) 2-Chlorotoluene	10.908	91	362	0.014	ppbv		91
72) 4-Ethyltoluene	11.128	105	148	0.006	ppbv	#	1
73) 1,3,5-Trimethylbenzene	11.209	105	307	0.013	ppbv	#	18
74) 1,2,4-Trimethylbenzene	11.542	105	424	0.015	ppbv	#	62
75) 1,3-Dichlorobenzene	11.614	146	362	0.023	ppbv		72
76) 1,4-Dichlorobenzene	11.669	146	97	0.006	ppbv	#	1
77) 1,2-Dichlorobenzene	11.614	146	362	0.023	ppbv		71
78) Hexachloro-1,3-Butadiene	13.886	225	344	0.022	ppbv	#	19
79) Naphthalene	13.520	128	497	0.021	ppbv	#	89
80) Naphthalene,2-methyl-	14.361	142	3971	0.224	ppbv		98
81) 1,2,4-Trichlorobenzene	13.442	180	384	0.030	ppbv	#	73

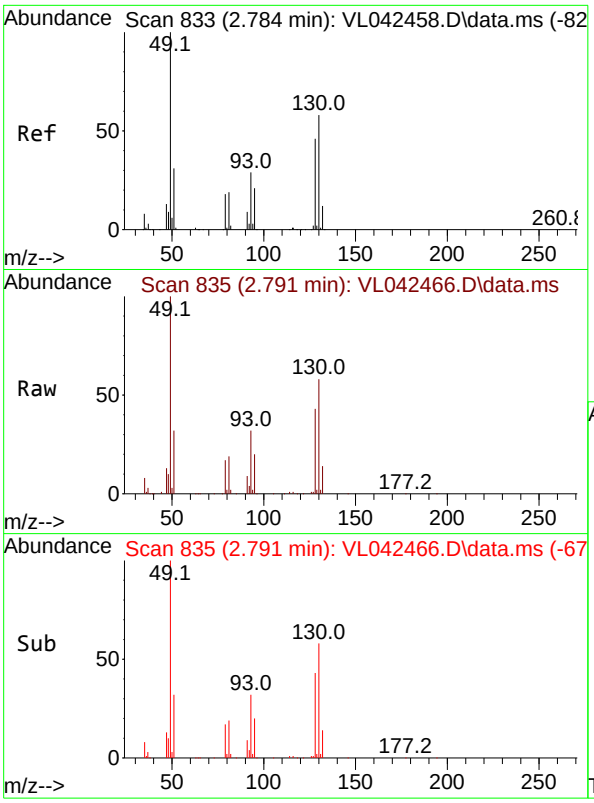
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050125\
Data File : VL042466.D
Acq On : 01 May 2025 14:10
Operator : SY/MD
Sample : VSTDICC0.03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Quant Time: May 02 01:46:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri May 02 01:37:48 2025
Response via : Initial Calibration



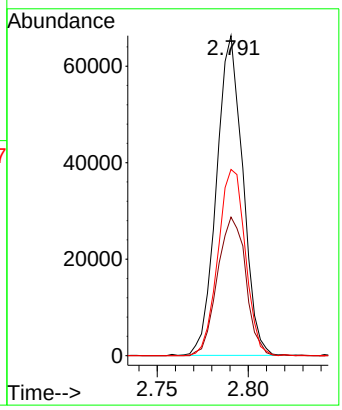


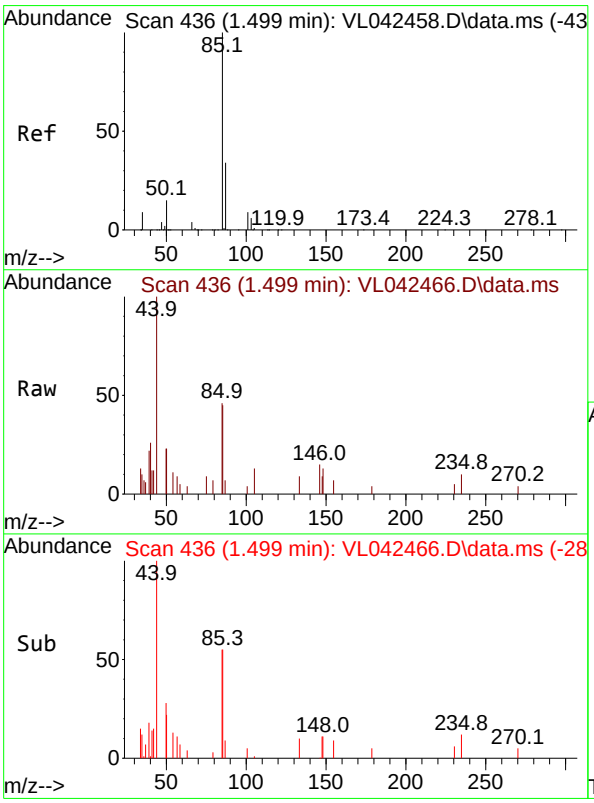
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.791 min Scan# 8
Delta R.T. 0.007 min
Lab File: VL042466.D
Acq: 01 May 2025 14:10

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion: 49 Resp: 66546

Ion	Ratio	Lower	Upper
49	100		
128	46.8	23.3	69.9
130	60.5	29.5	88.6

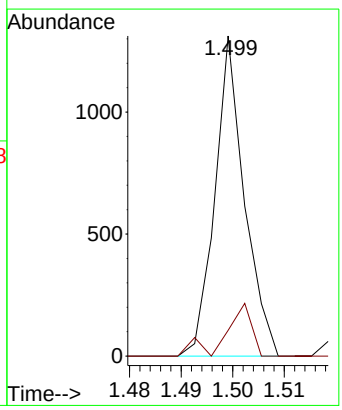


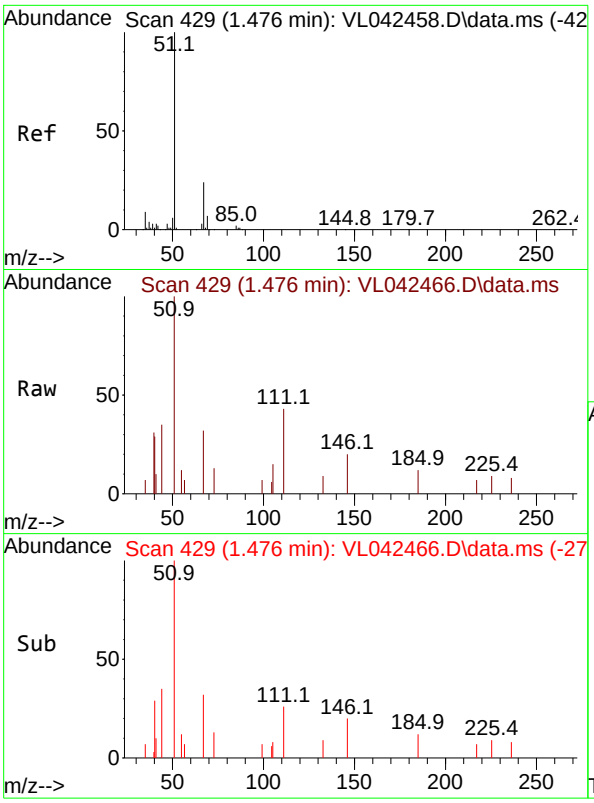


#2
Dichlorodifluoromethane
Concen: 0.047 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.000 min
Lab File: VL042466.D
Acq: 01 May 2025 14:10

Tgt Ion: 85 Resp: 520

Ion	Ratio	Lower	Upper
85	100		
87	8.0	26.9	40.3#



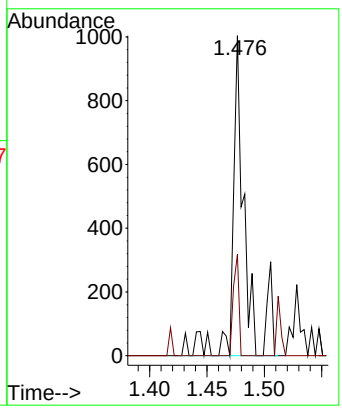


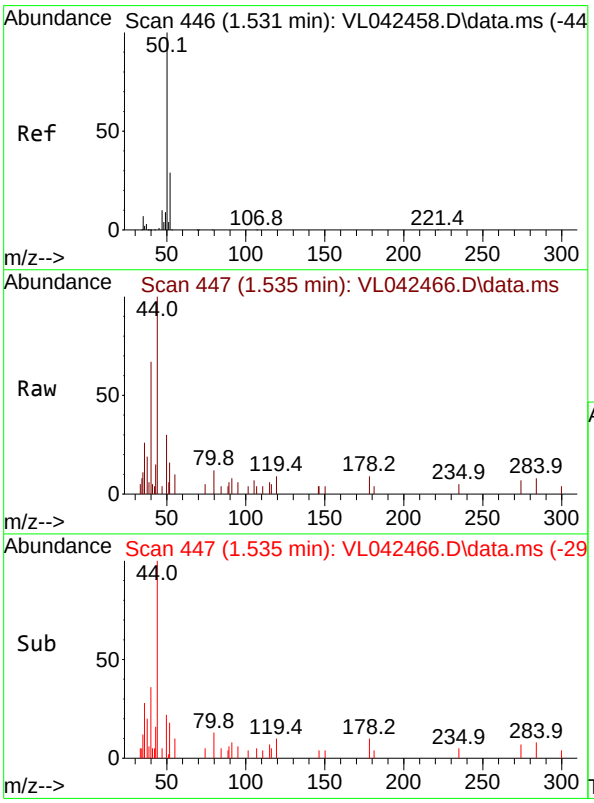
#3
Chlorodifluoromethane
Concen: 0.062 ppbv
RT: 1.476 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042466.D
Acq: 01 May 2025 14:10

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion: 51 Resp: 723

Ion	Ratio	Lower	Upper
51	100		
67	14.4	18.4	27.6#

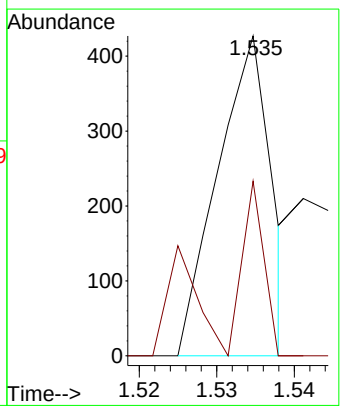


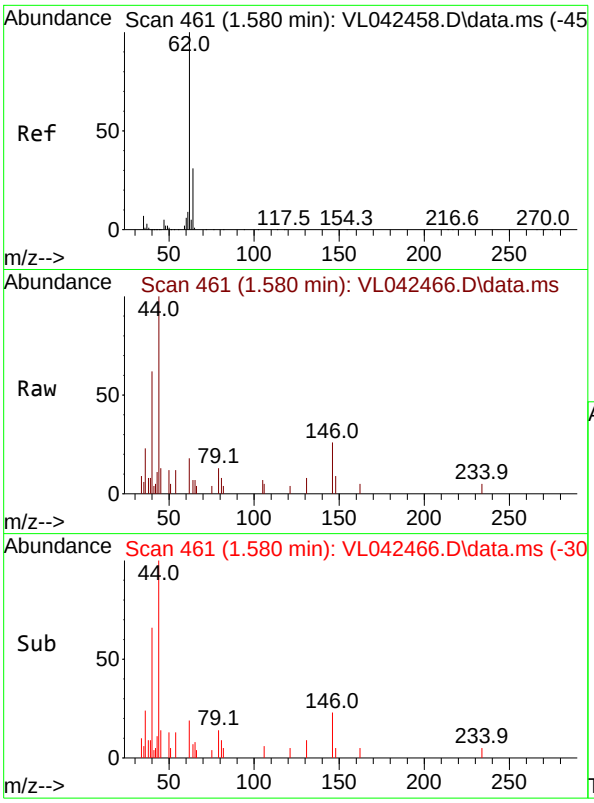


#4
Chloromethane
Concen: 0.045 ppbv
RT: 1.535 min Scan# 447
Delta R.T. 0.004 min
Lab File: VL042466.D
Acq: 01 May 2025 14:10

Tgt Ion: 50 Resp: 208

Ion	Ratio	Lower	Upper
50	100		
52	54.6	23.5	35.3#



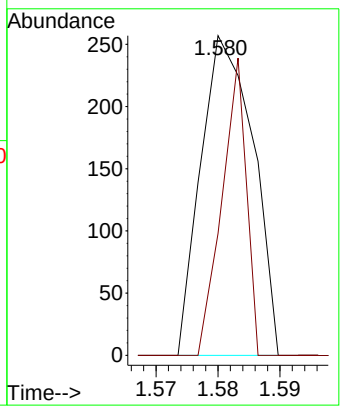


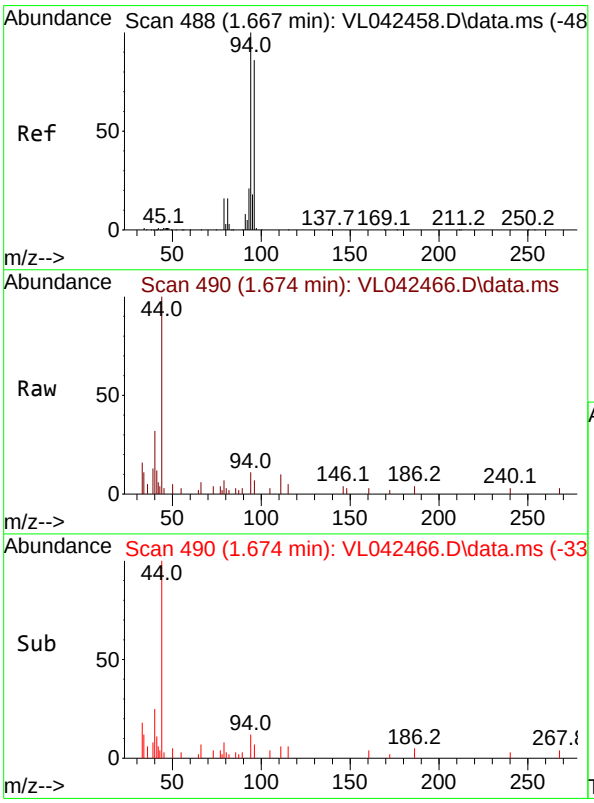
#5
Vinyl Chloride
Concen: 0.033 ppbv
RT: 1.580 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042466.D
Acq: 01 May 2025 14:10

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion: 62 Resp: 151

Ion	Ratio	Lower	Upper
62	100		
64	38.1	24.9	37.3#

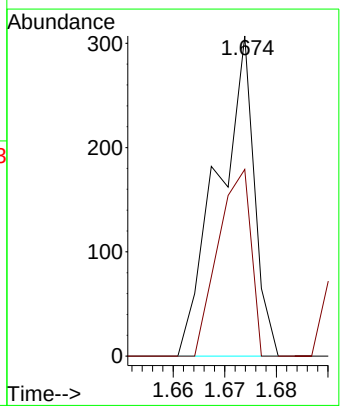


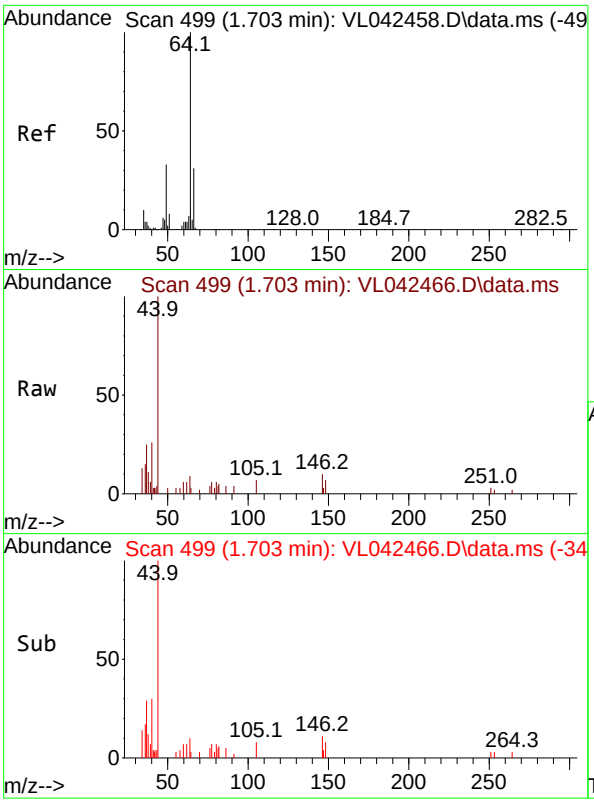


#6
Bromomethane
Concen: 0.069 ppbv
RT: 1.674 min Scan# 490
Delta R.T. 0.007 min
Lab File: VL042466.D
Acq: 01 May 2025 14:10

Tgt Ion: 94 Resp: 151

Ion	Ratio	Lower	Upper
94	100		
96	58.3	68.8	103.2#



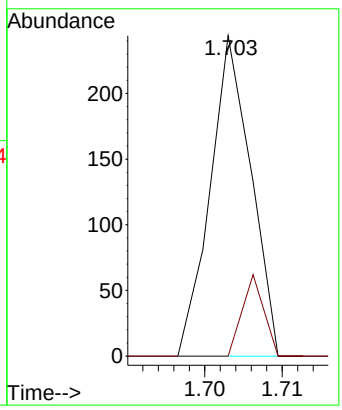


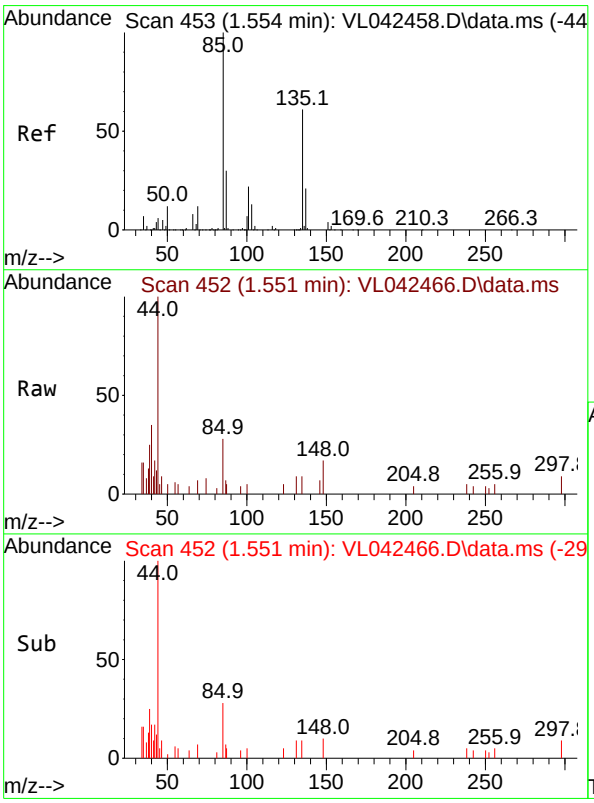
#7
Chloroethane
Concen: 0.052 ppbv
RT: 1.703 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042466.D
Acq: 01 May 2025 14:10

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion: 64 Resp: 89

Ion	Ratio	Lower	Upper
64	100		
66	0.0	25.0	37.4#

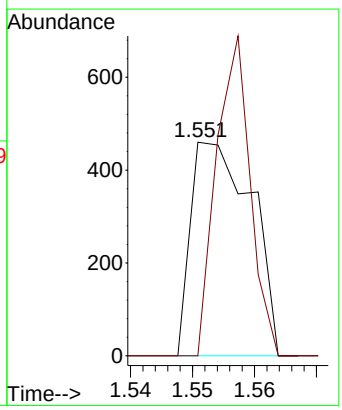


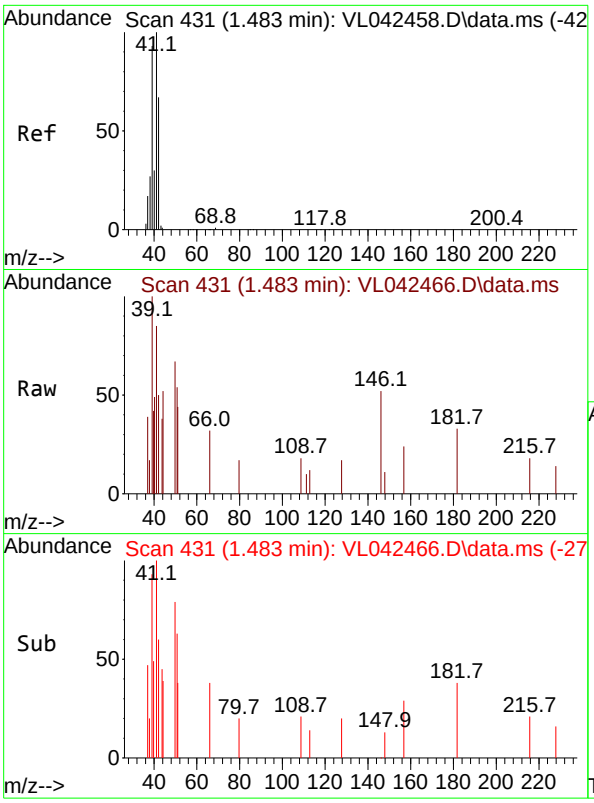


#8
Dichlorotetrafluoroethane
Concen: 0.035 ppbv
RT: 1.551 min Scan# 452
Delta R.T. -0.003 min
Lab File: VL042466.D
Acq: 01 May 2025 14:10

Tgt Ion: 85 Resp: 314

Ion	Ratio	Lower	Upper
85	100		
135	82.8	49.8	74.8#



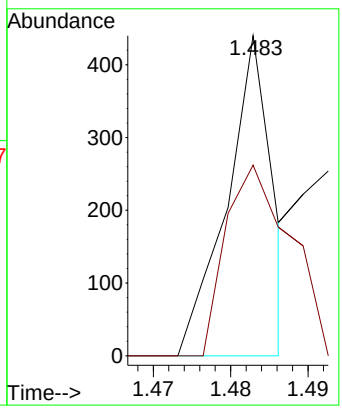


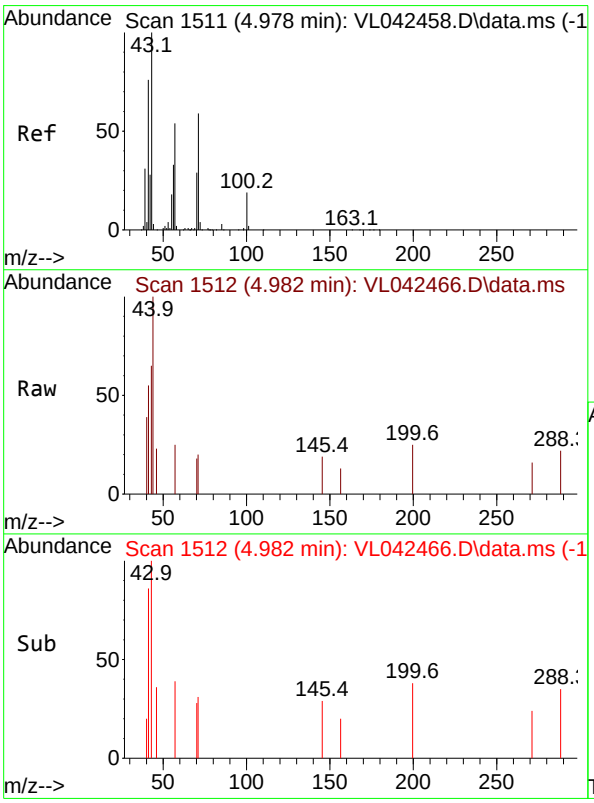
#9
Propene
Concen: 0.048 ppbv
RT: 1.483 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042466.D
Acq: 01 May 2025 14:10

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion: 41 Resp: 181

Ion	Ratio	Lower	Upper
41	100		
42	188.4	54.3	81.5#

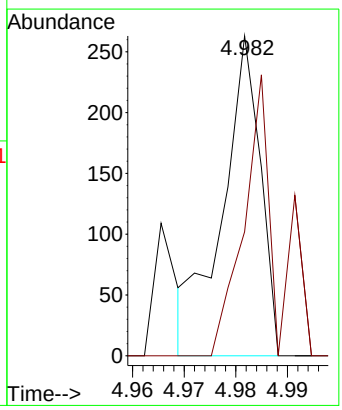


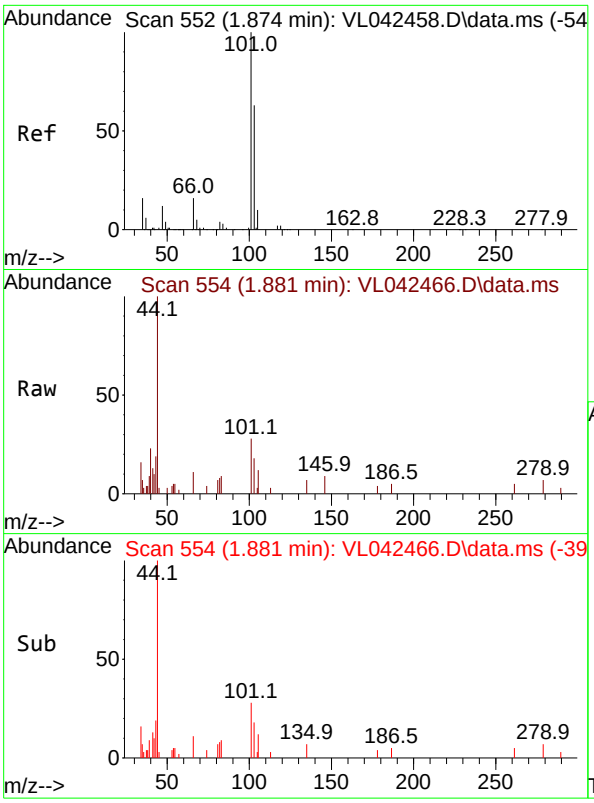


#10
Heptane
Concen: 0.014 ppbv
RT: 4.982 min Scan# 1512
Delta R.T. 0.004 min
Lab File: VL042466.D
Acq: 01 May 2025 14:10

Tgt Ion: 43 Resp: 134

Ion	Ratio	Lower	Upper
43	100		
57	88.1	41.8	62.8#



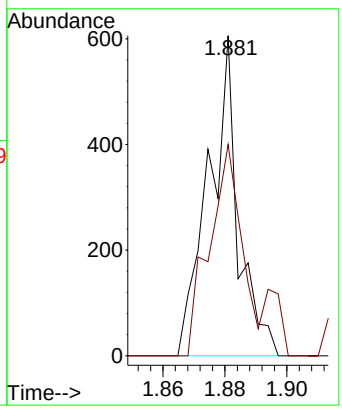


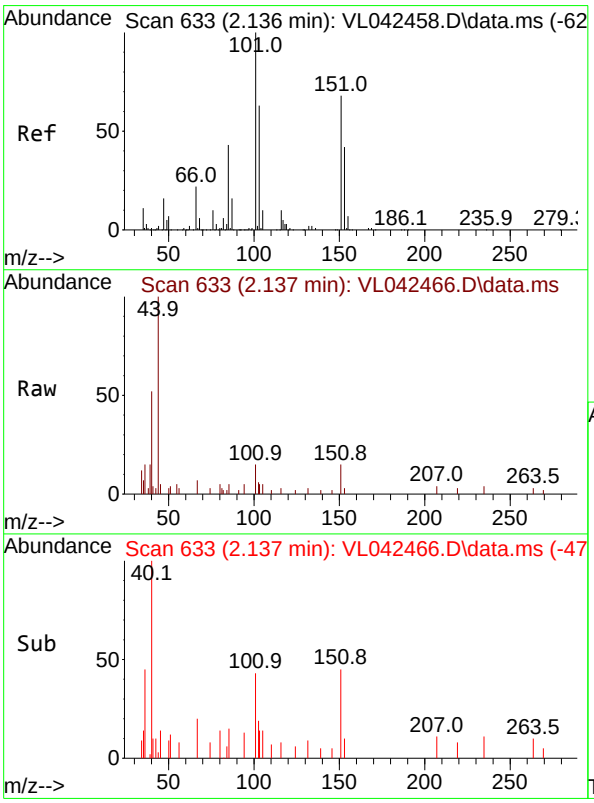
#11
Trichlorofluoromethane
Concen: 0.041 ppbv
RT: 1.881 min Scan# 5
Delta R.T. 0.007 min
Lab File: VL042466.D
Acq: 01 May 2025 14:10

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion:101 Resp: 398

Ion	Ratio	Lower	Upper
101	100		
103	66.0	50.6	76.0

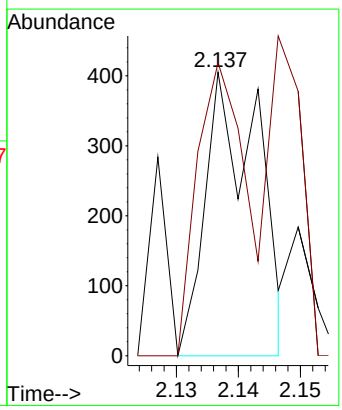


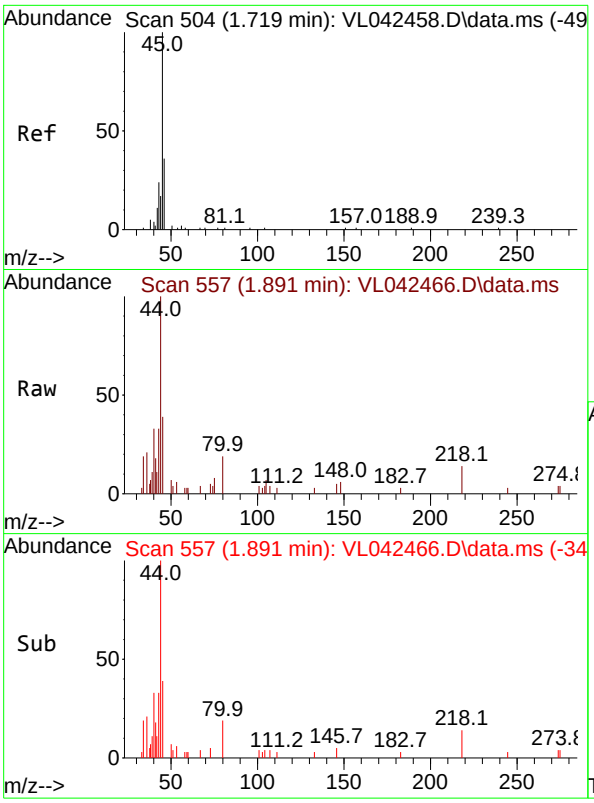


#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.029 ppbv
RT: 2.137 min Scan# 633
Delta R.T. 0.000 min
Lab File: VL042466.D
Acq: 01 May 2025 14:10

Tgt Ion:101 Resp: 238

Ion	Ratio	Lower	Upper
101	100		
151	0.0	54.6	82.0#



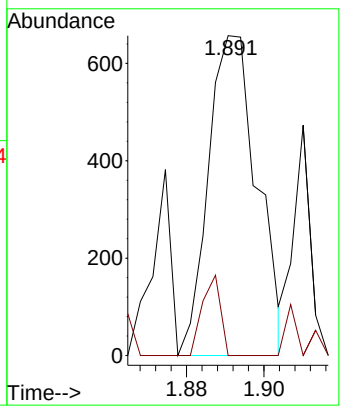


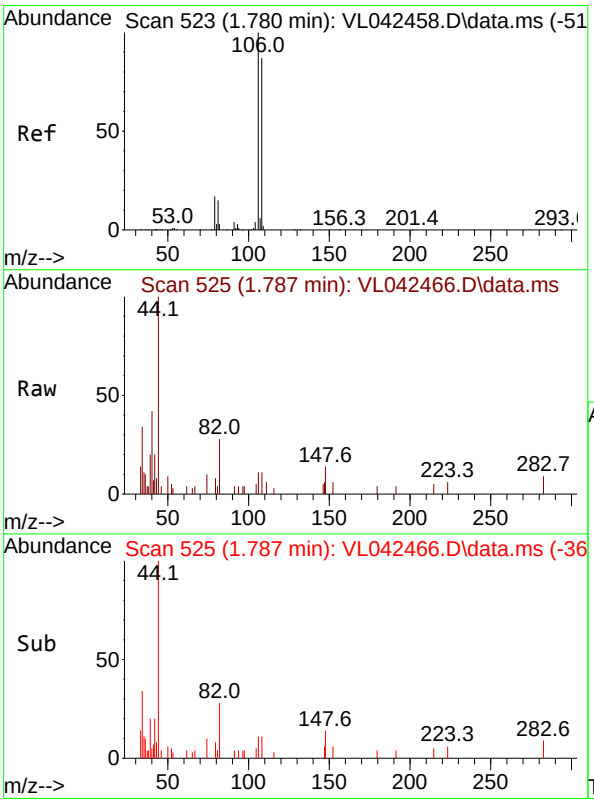
#13
Ethanol
Concen: 0.745 ppbv
RT: 1.891 min Scan# 5
Delta R.T. 0.172 min
Lab File: VL042466.D
Acq: 01 May 2025 14:10

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion: 45 Resp: 576

Ion	Ratio	Lower	Upper
45	100		
46	0.0	15.3	61.1#

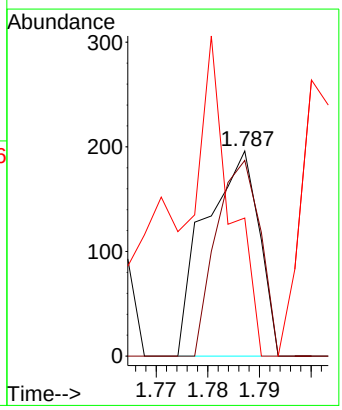


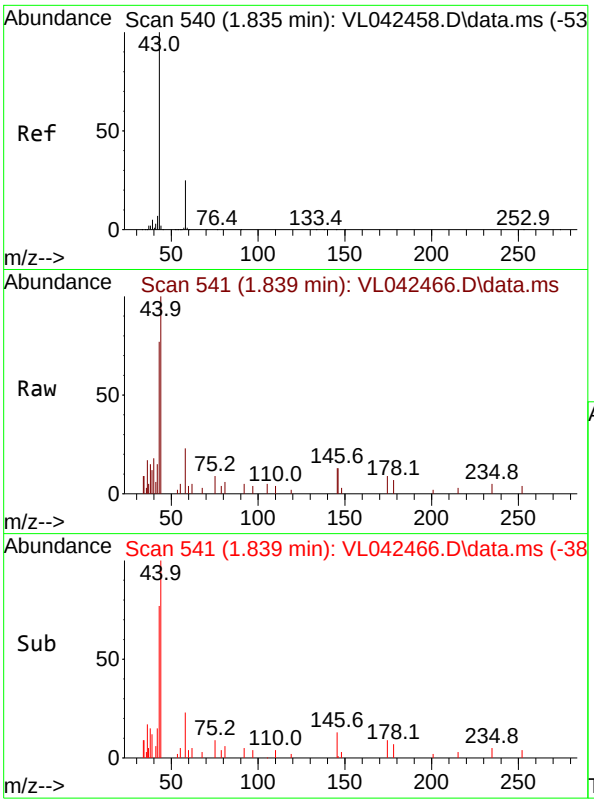


#14
Bromoethene
Concen: 0.047 ppbv
RT: 1.787 min Scan# 525
Delta R.T. 0.007 min
Lab File: VL042466.D
Acq: 01 May 2025 14:10

Tgt Ion:108 Resp: 142

Ion	Ratio	Lower	Upper
108	100		
106	78.2	88.8	133.2#
79	244.4	17.1	25.7#



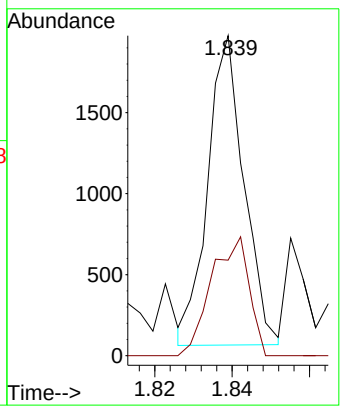


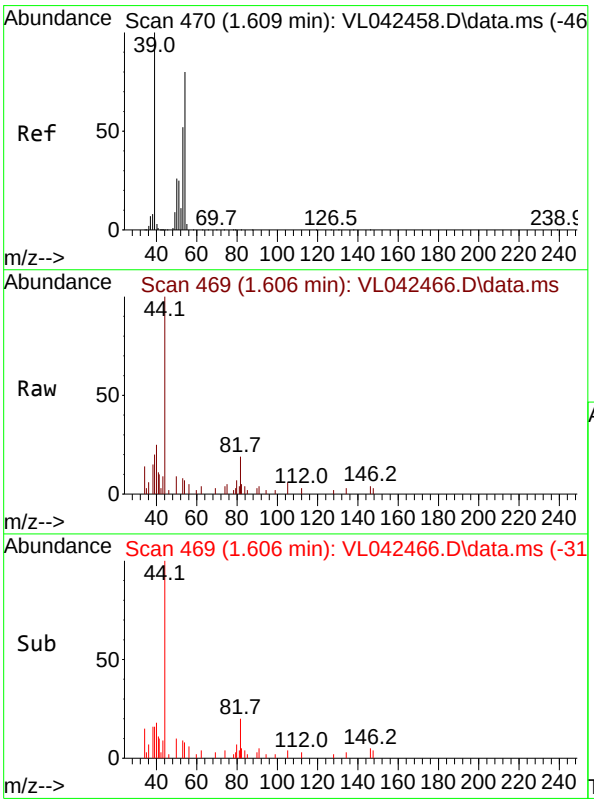
#15
Acetone
Concen: 0.102 ppbv
RT: 1.839 min Scan# 54
Delta R.T. 0.004 min
Lab File: VL042466.D
Acq: 01 May 2025 14:10

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion: 43 Resp: 1241

Ion	Ratio	Lower	Upper
43	100		
58	40.0	19.8	29.8#

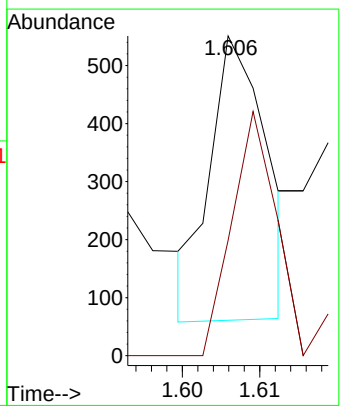


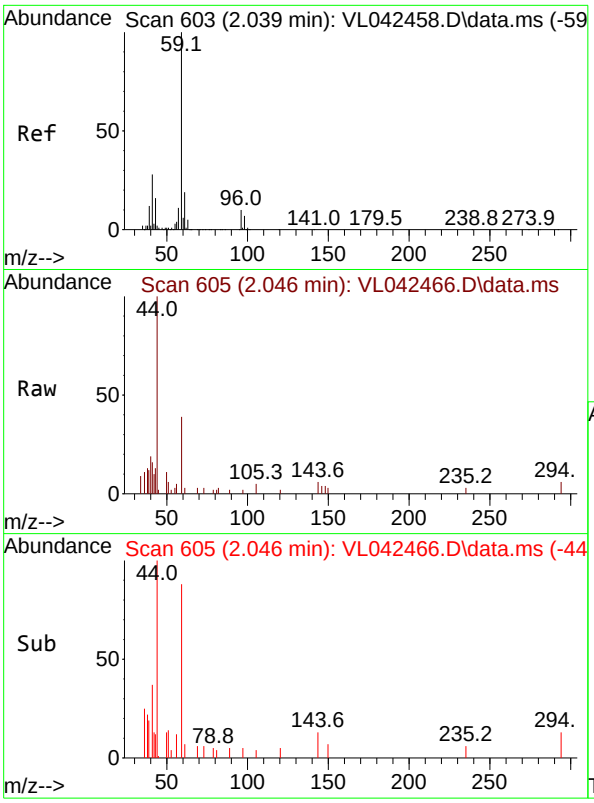


#16
1,3-Butadiene
Concen: 0.046 ppbv
RT: 1.606 min Scan# 469
Delta R.T. -0.003 min
Lab File: VL042466.D
Acq: 01 May 2025 14:10

Tgt Ion: 39 Resp: 249

Ion	Ratio	Lower	Upper
39	100		
54	109.2	55.2	82.8#



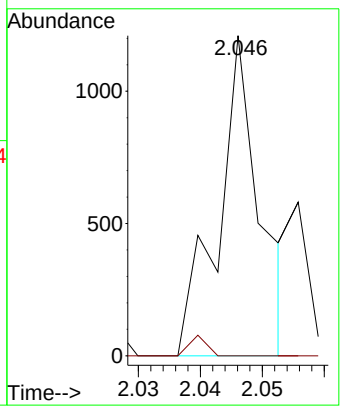


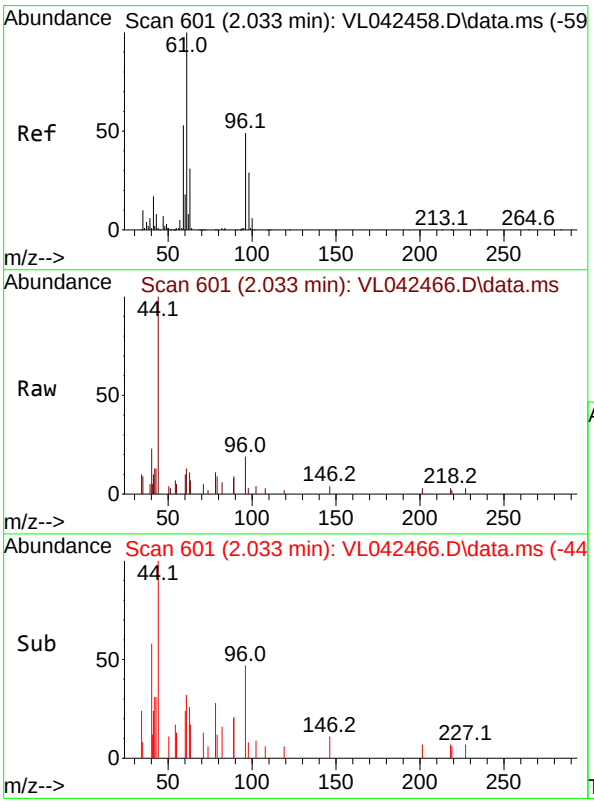
#17
tert-Butyl alcohol
Concen: 0.053 ppbv
RT: 2.046 min Scan# 6
Delta R.T. 0.007 min
Lab File: VL042466.D
Acq: 01 May 2025 14:10

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion: 59 Resp: 565

Ion	Ratio	Lower	Upper
59	100		
57	2.7	8.3	12.5#

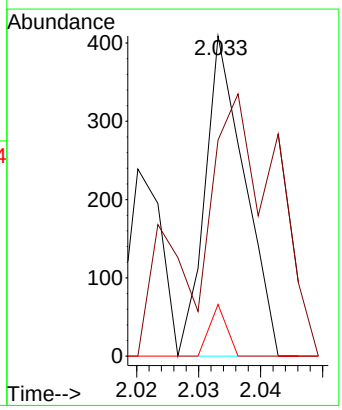


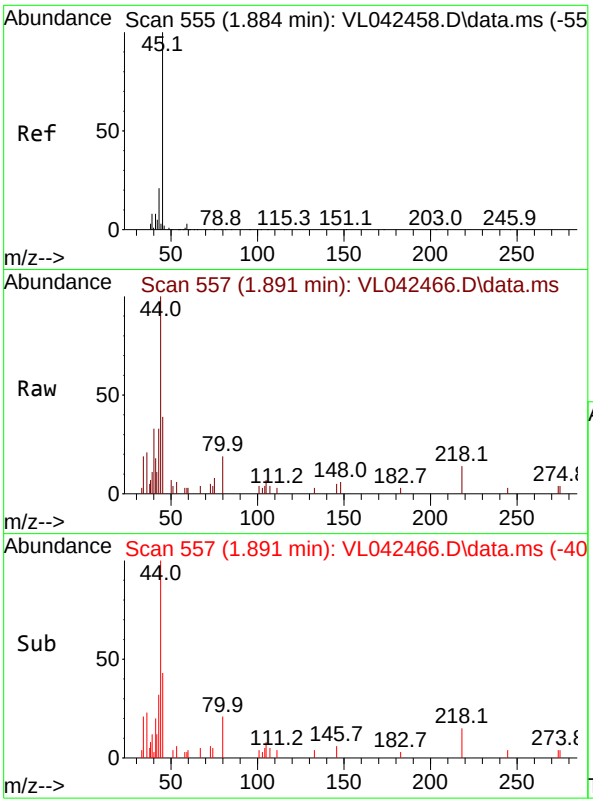


#18
1,1-Dichloroethene
Concen: 0.048 ppbv
RT: 2.033 min Scan# 601
Delta R.T. 0.000 min
Lab File: VL042466.D
Acq: 01 May 2025 14:10

Tgt Ion: 96 Resp: 181

Ion	Ratio	Lower	Upper
96	100		
61	36.7	164.9	247.3#
98	16.1	48.2	72.2#



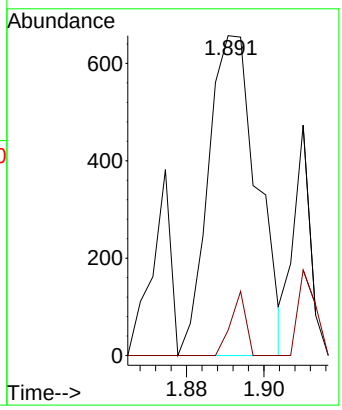


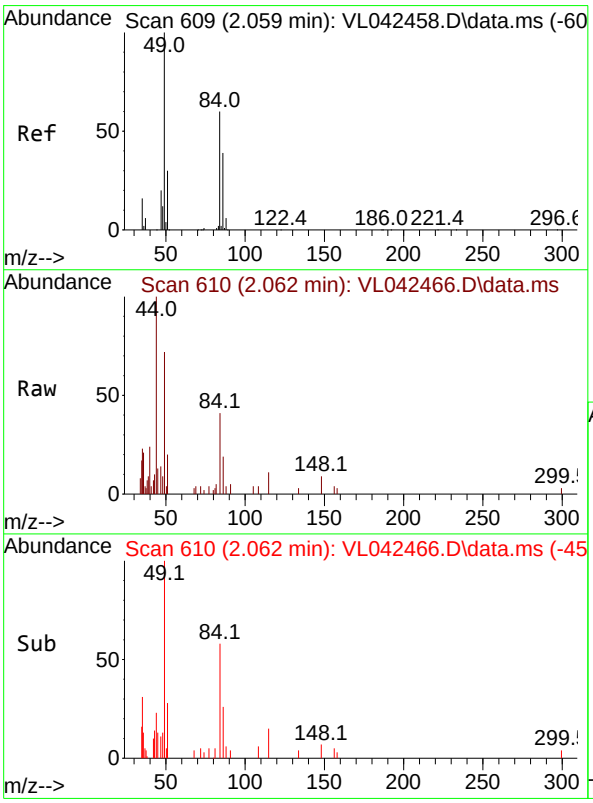
#19
Isopropyl Alcohol
Concen: 0.086 ppbv
RT: 1.891 min Scan# 5
Delta R.T. 0.007 min
Lab File: VL042466.D
Acq: 01 May 2025 14:10

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion: 45 Resp: 576

Ion	Ratio	Lower	Upper
45	100		
58	86.3	1.6	2.4#

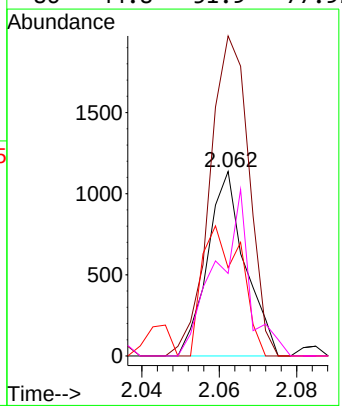


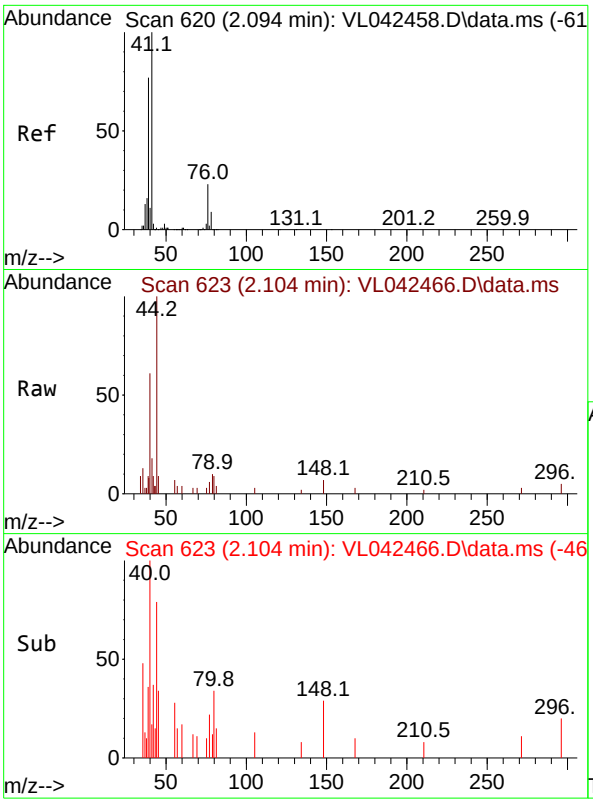


#20
Methylene Chloride
Concen: 0.209 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.004 min
Lab File: VL042466.D
Acq: 01 May 2025 14:10

Tgt Ion: 84 Resp: 763

Ion	Ratio	Lower	Upper
84	100		
49	173.4	133.9	200.9
51	47.8	41.0	61.6
86	44.8	51.9	77.9#



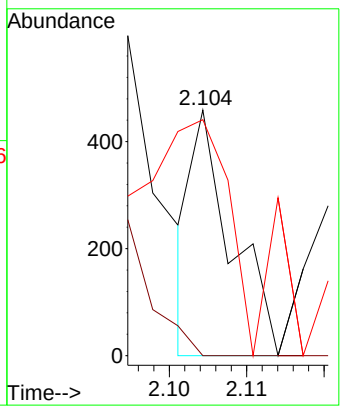


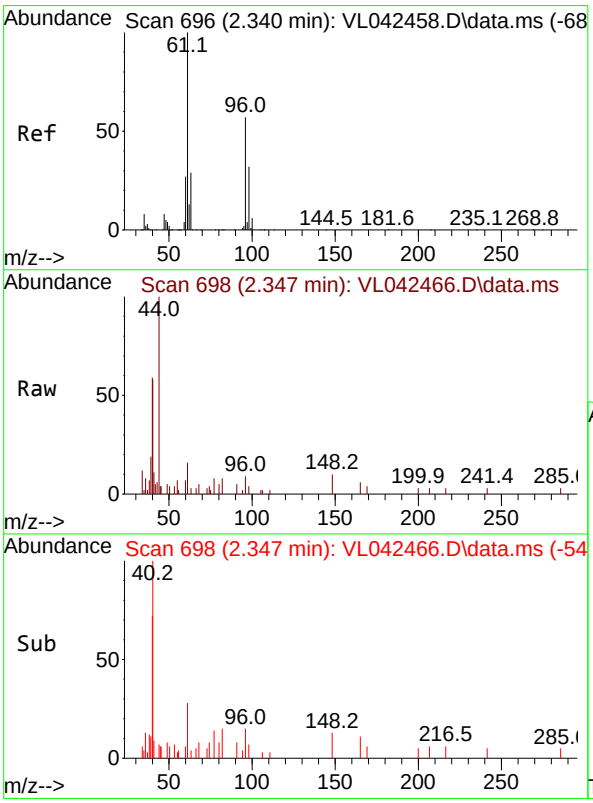
#21
Allyl Chloride
Concen: 0.021 ppbv
RT: 2.104 min Scan# 6
Delta R.T. 0.010 min
Lab File: VL042466.D
Acq: 01 May 2025 14:10

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion: 41 Resp: 163

Ion	Ratio	Lower	Upper
41	100		
76	0.0	19.6	29.4#
39	0.0	61.0	91.4#

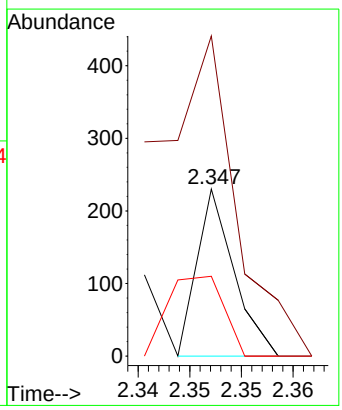


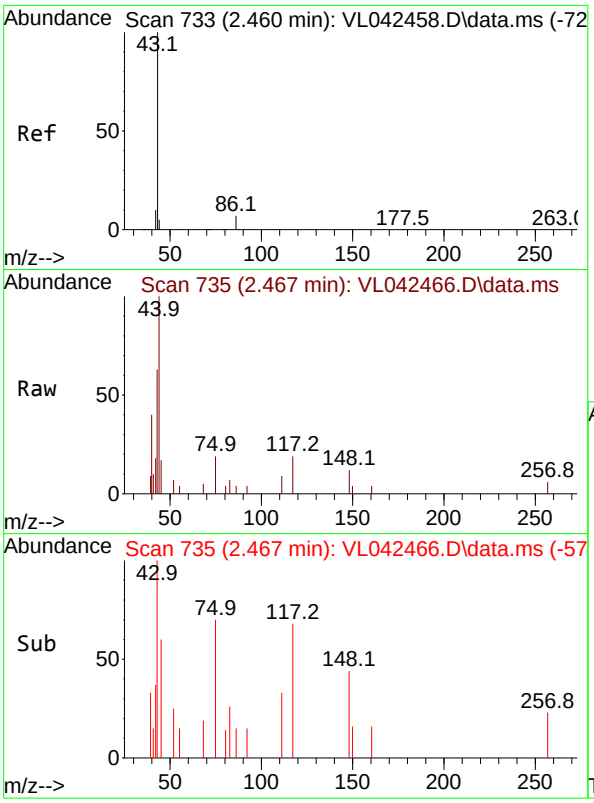


#22
trans-1,2-Dichloroethene
Concen: 0.013 ppbv
RT: 2.347 min Scan# 698
Delta R.T. 0.007 min
Lab File: VL042466.D
Acq: 01 May 2025 14:10

Tgt Ion: 96 Resp: 57

Ion	Ratio	Lower	Upper
96	100		
61	158.3	141.8	212.6
98	47.8	45.0	67.6



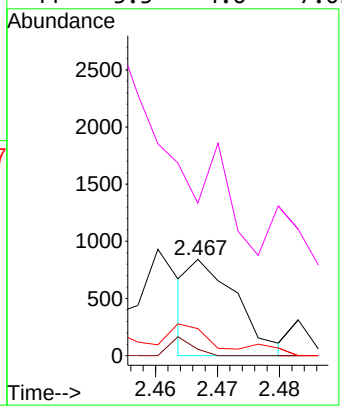


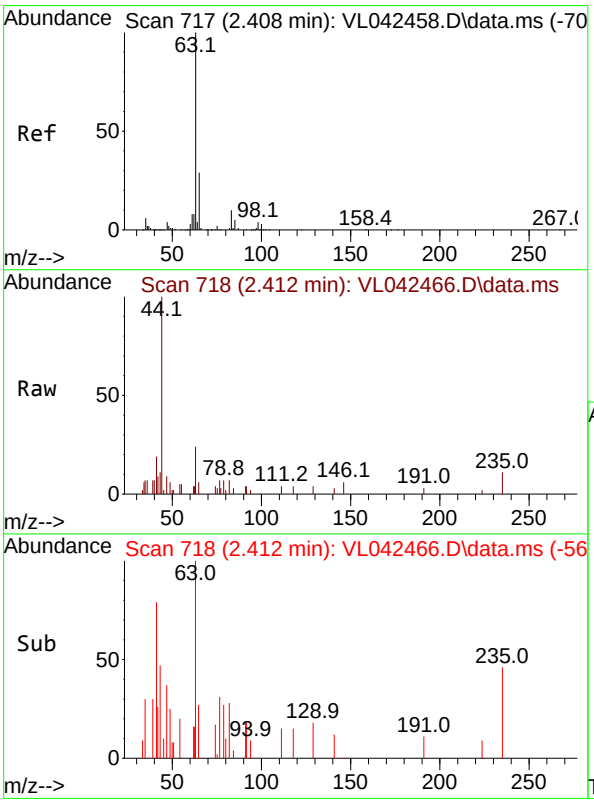
#23
Vinyl Acetate
Concen: 0.040 ppbv
RT: 2.467 min Scan# 7
Delta R.T. 0.007 min
Lab File: VL042466.D
Acq: 01 May 2025 14:10

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion: 43 Resp: 448

Ion	Ratio	Lower	Upper
43	100		
86	7.6	5.5	8.3
42	23.2	8.3	12.5#
44	3.3	4.6	7.0#

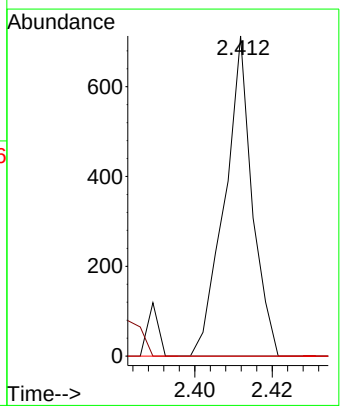


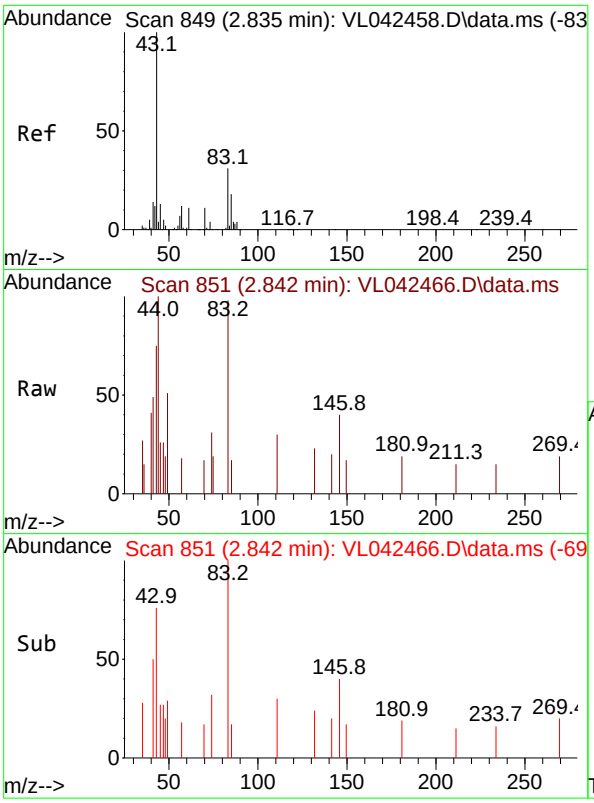


#24
1,1-Dichloroethane
Concen: 0.039 ppbv
RT: 2.412 min Scan# 718
Delta R.T. 0.004 min
Lab File: VL042466.D
Acq: 01 May 2025 14:10

Tgt Ion: 63 Resp: 353

Ion	Ratio	Lower	Upper
63	100		
98	0.0	1.8	5.5#
100	0.0	1.4	4.2#



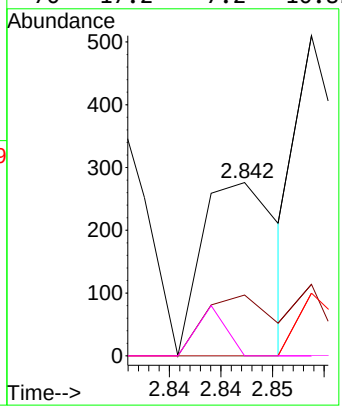


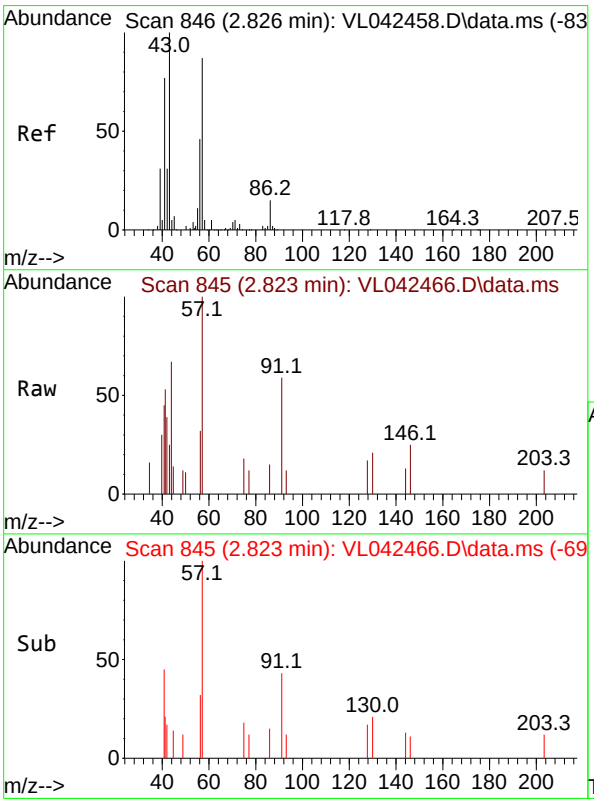
#25
Ethyl Acetate
Concen: 0.007 ppbv
RT: 2.842 min Scan# 8
Delta R.T. 0.007 min
Lab File: VL042466.D
Acq: 01 May 2025 14:10

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion: 43 Resp: 145

Ion	Ratio	Lower	Upper
43	100		
45	0.0	7.8	11.6#
61	0.0	7.2	10.8#
70	17.2	7.2	10.8#

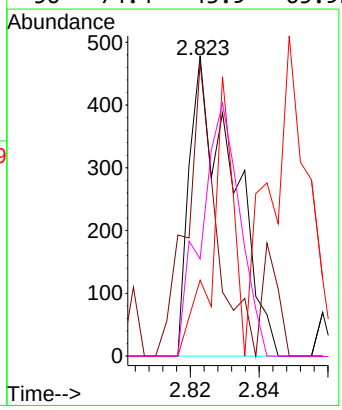


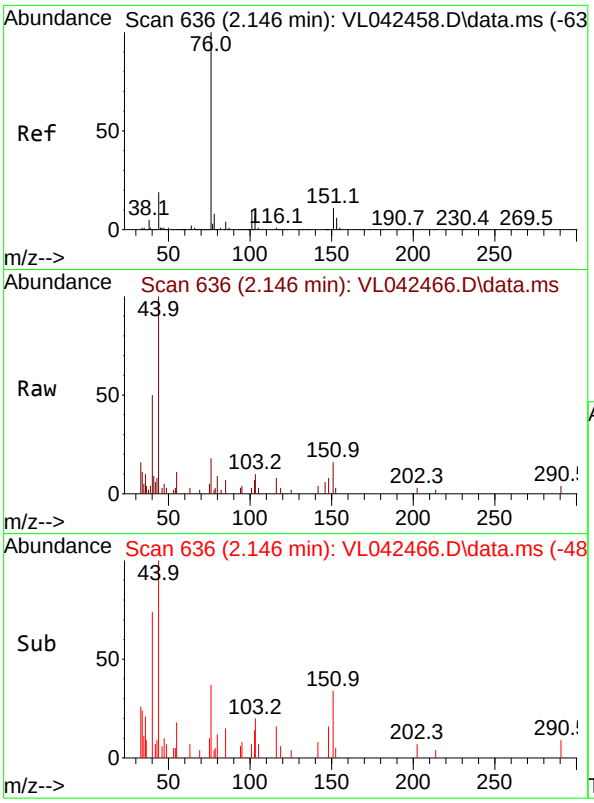


#26
Hexane
Concen: 0.050 ppbv
RT: 2.823 min Scan# 845
Delta R.T. -0.003 min
Lab File: VL042466.D
Acq: 01 May 2025 14:10

Tgt Ion: 57 Resp: 422

Ion	Ratio	Lower	Upper
57	100		
41	85.3	77.8	116.8
43	146.9	187.0	280.6#
56	74.4	43.9	65.9#



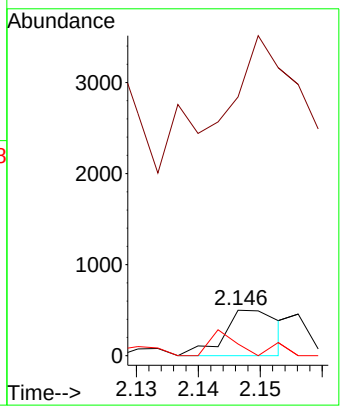


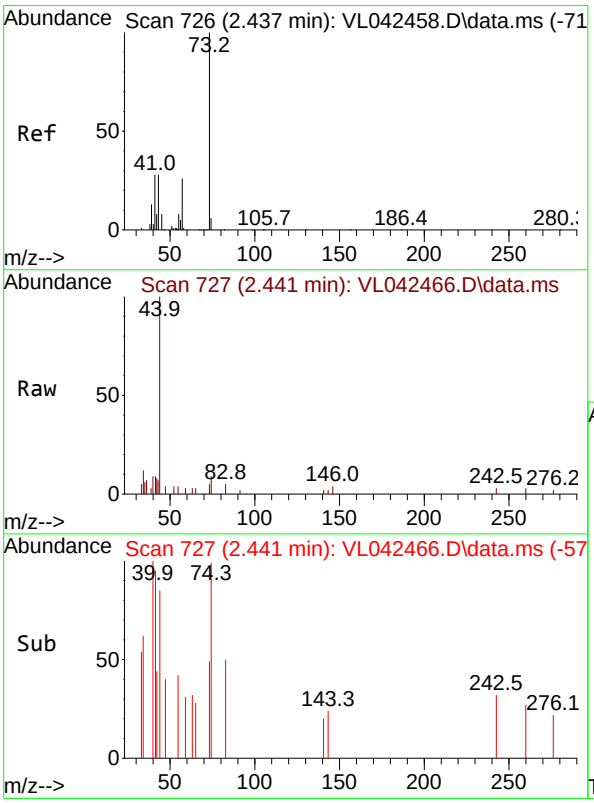
#27
Carbon Disulfide
Concen: 0.031 ppbv
RT: 2.146 min Scan# 6
Delta R.T. 0.000 min
Lab File: VL042466.D
Acq: 01 May 2025 14:10

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion: 76 Resp: 308

Ion	Ratio	Lower	Upper
76	100		
44	2609.7	21.0	31.6#
78	71.8	8.6	13.0#

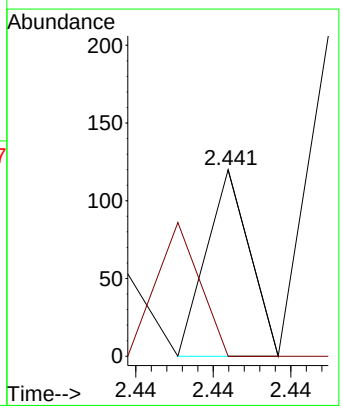


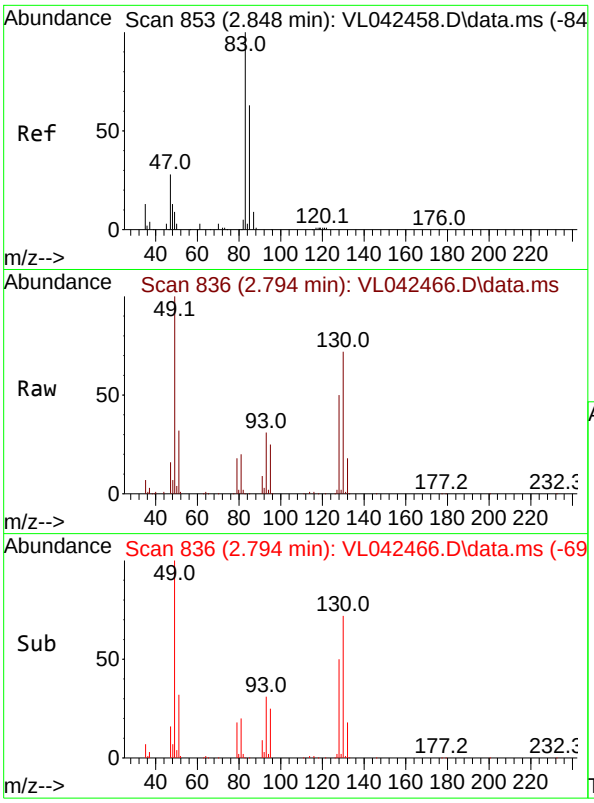


#28
Methyl tert-Butyl Ether
Concen: 0.005 ppbv
RT: 2.441 min Scan# 727
Delta R.T. 0.004 min
Lab File: VL042466.D
Acq: 01 May 2025 14:10

Tgt Ion: 73 Resp: 23

Ion	Ratio	Lower	Upper
73	100		
57	182.6	19.9	29.9#



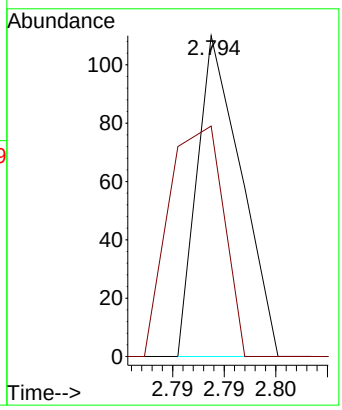


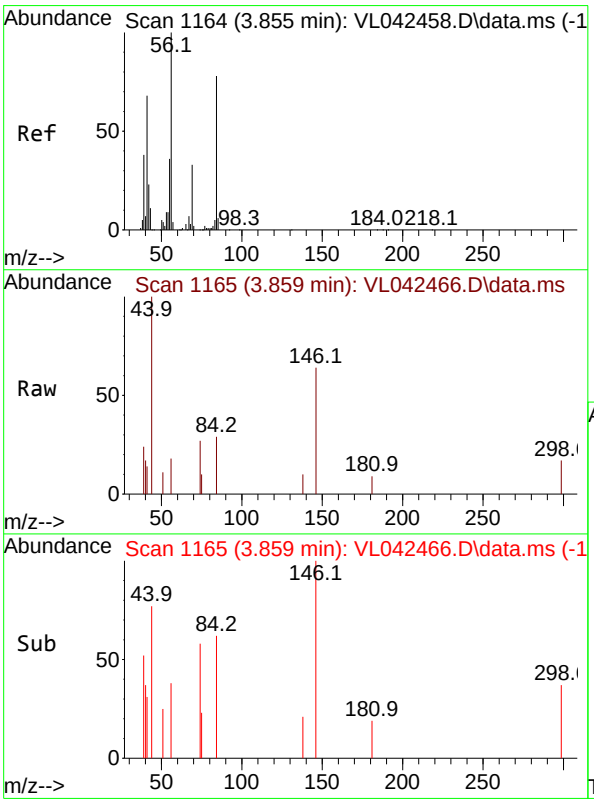
#29
Chloroform
Concen: 0.002 ppbv
RT: 2.794 min Scan# 8
Delta R.T. -0.055 min
Lab File: VL042466.D
Acq: 01 May 2025 14:10

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion: 83 Resp: 33

Ion	Ratio	Lower	Upper
83	100		
85	71.8	50.4	75.6

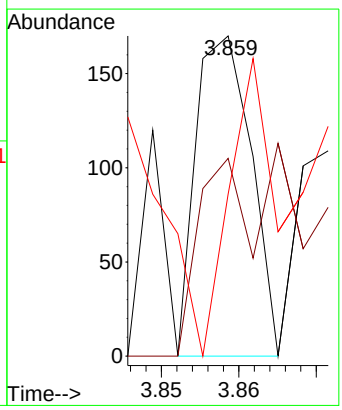


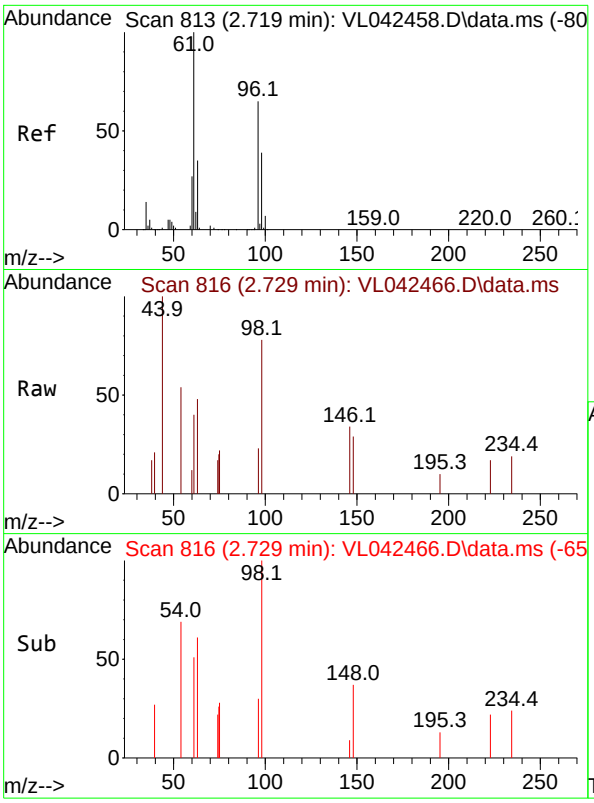


#30
Cyclohexane
Concen: 0.012 ppbv
RT: 3.859 min Scan# 1165
Delta R.T. 0.004 min
Lab File: VL042466.D
Acq: 01 May 2025 14:10

Tgt Ion: 84 Resp: 84

Ion	Ratio	Lower	Upper
84	100		
56	0.0	98.1	147.1#
41	0.0	65.8	98.8#



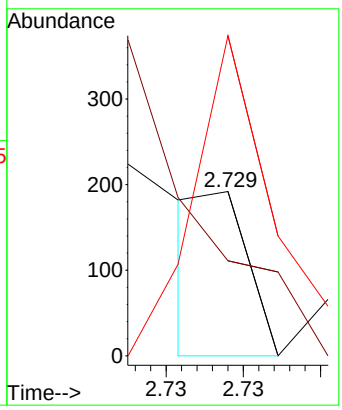


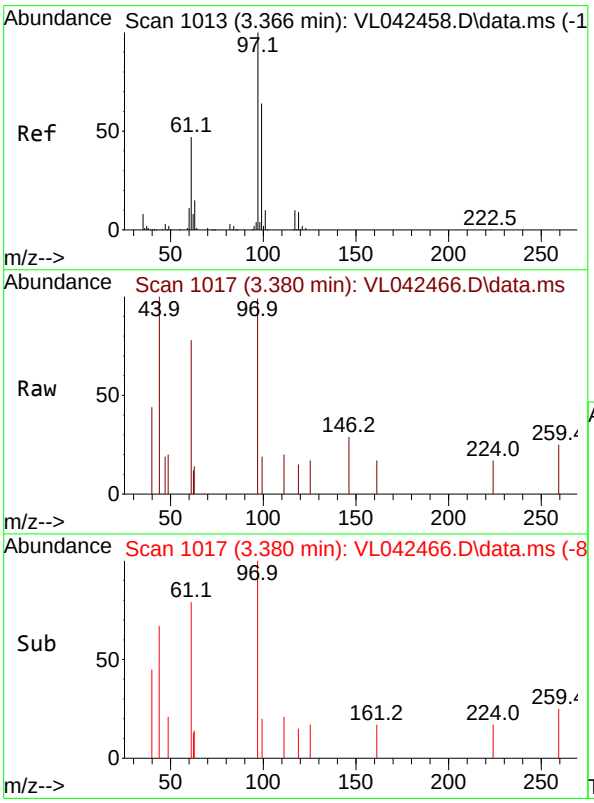
#31
cis-1,2-Dichloroethene
Concen: 0.004 ppbv
RT: 2.729 min Scan# 8
Delta R.T. 0.010 min
Lab File: VL042466.D
Acq: 01 May 2025 14:10

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion: 61 Resp: 37

Ion	Ratio	Lower	Upper
61	100		
96	6.8	52.0	78.0#
98	139.1	31.0	46.6#

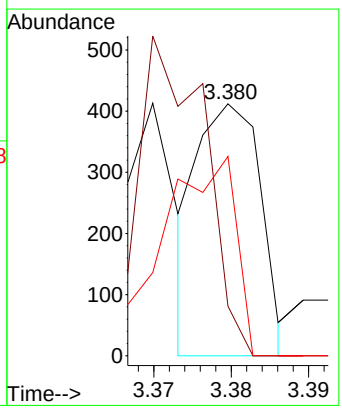


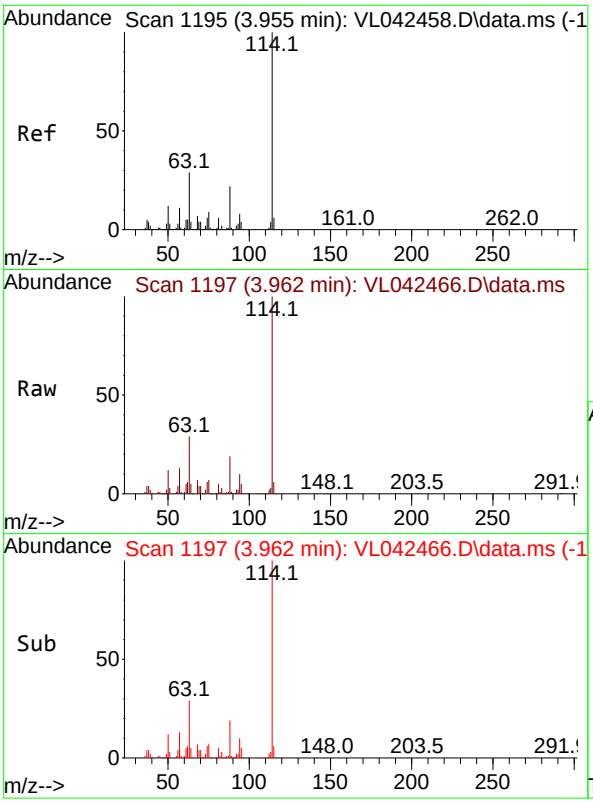


#32
1,1,1-Trichloroethane
Concen: 0.014 ppbv
RT: 3.380 min Scan# 1017
Delta R.T. 0.013 min
Lab File: VL042466.D
Acq: 01 May 2025 14:10

Tgt Ion: 97 Resp: 233

Ion	Ratio	Lower	Upper
97	100		
99	0.0	50.7	76.1#
61	141.6	40.9	61.3#



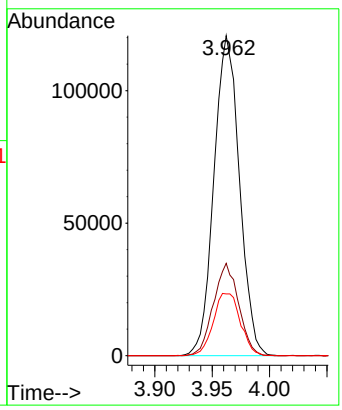


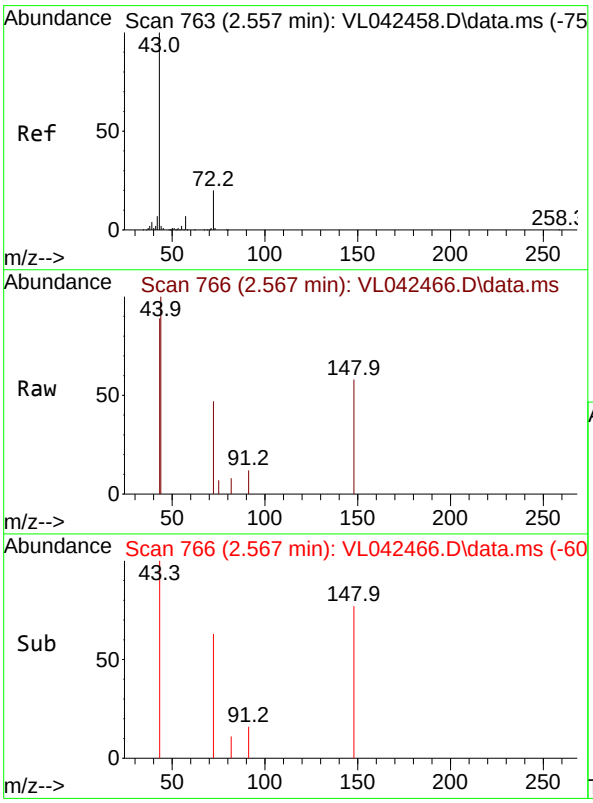
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.962 min Scan# 11
Delta R.T. 0.007 min
Lab File: VL042466.D
Acq: 01 May 2025 14:10

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion:114 Resp: 186737

Ion	Ratio	Lower	Upper
114	100		
63	28.5	23.1	34.7
88	20.7	16.1	24.1

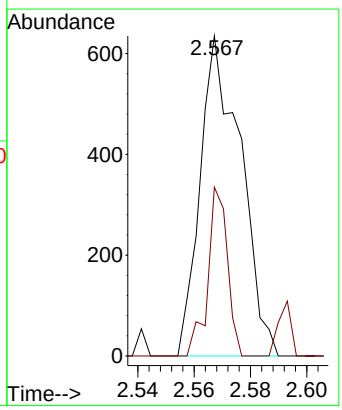


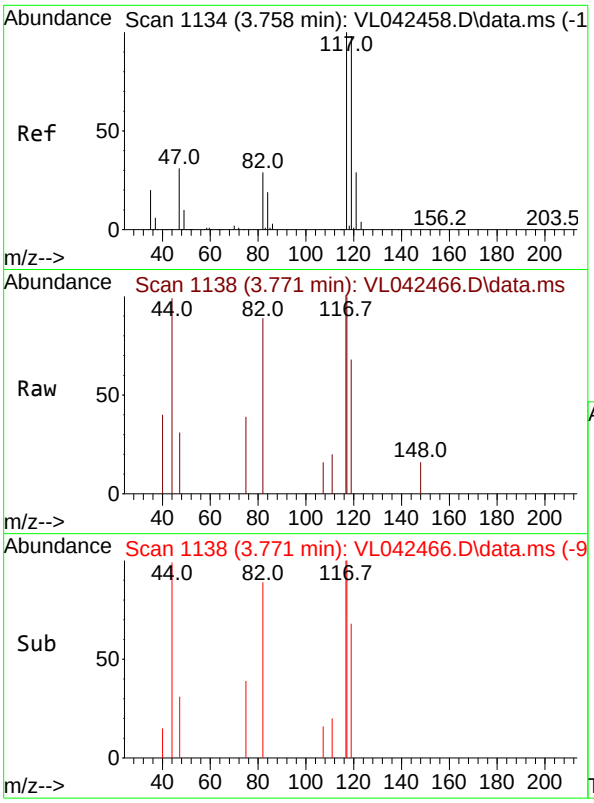


#34
2-Butanone
Concen: 0.047 ppbv
RT: 2.567 min Scan# 766
Delta R.T. 0.010 min
Lab File: VL042466.D
Acq: 01 May 2025 14:10

Tgt Ion: 43 Resp: 633

Ion	Ratio	Lower	Upper
43	100		
72	25.4	16.7	25.1#



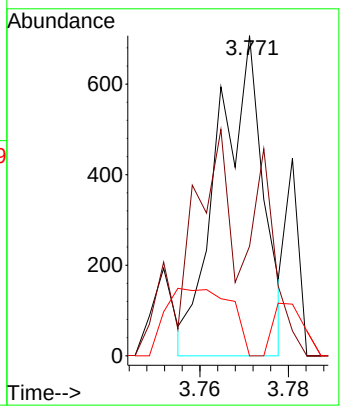


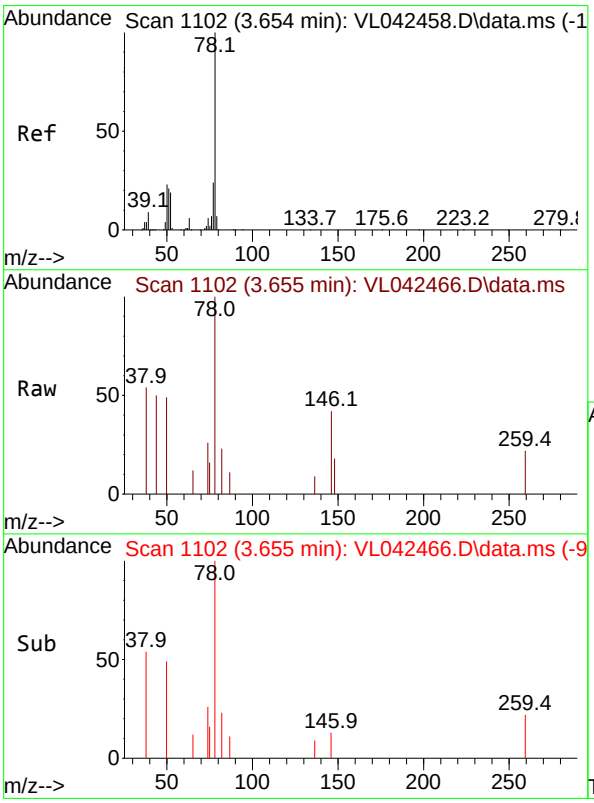
#35
Carbon Tetrachloride
Concen: 0.031 ppbv
RT: 3.771 min Scan# 11
Delta R.T. 0.013 min
Lab File: VL042466.D
Acq: 01 May 2025 14:10

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion:117 Resp: 501

Ion	Ratio	Lower	Upper
117	100		
119	28.5	78.1	117.1#
121	0.0	23.0	34.6#

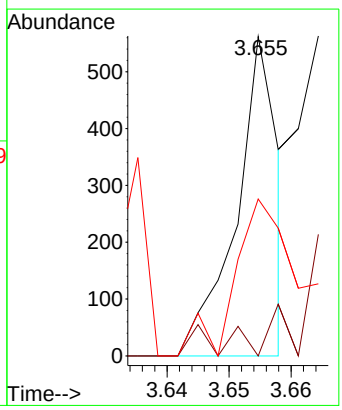


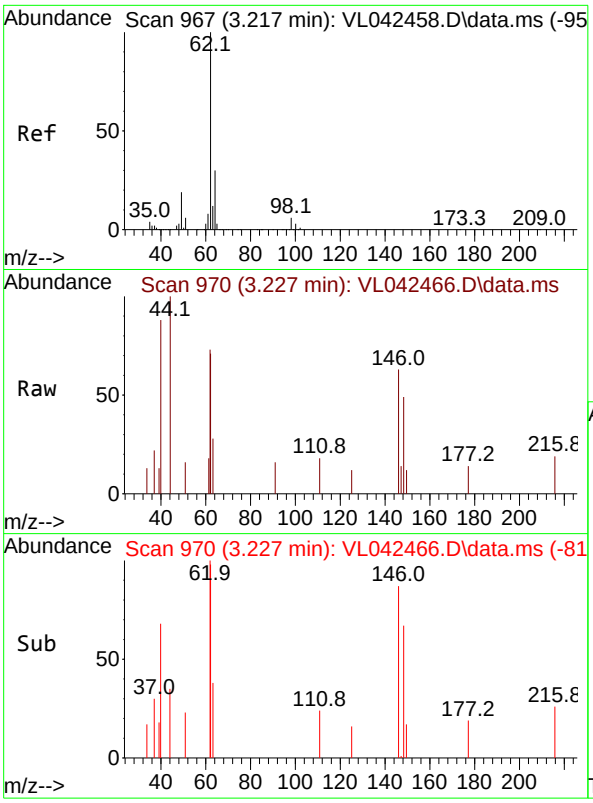


#36
Benzene
Concen: 0.015 ppbv
RT: 3.655 min Scan# 1102
Delta R.T. 0.000 min
Lab File: VL042466.D
Acq: 01 May 2025 14:10

Tgt Ion: 78 Resp: 265

Ion	Ratio	Lower	Upper
78	100		
77	0.0	18.9	28.3#
50	28.5	18.4	27.6#



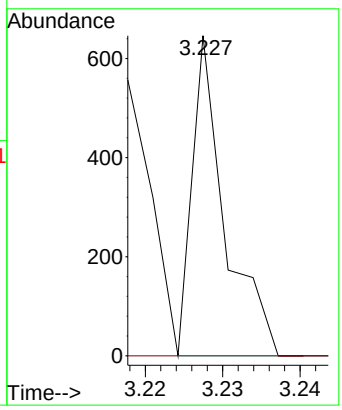


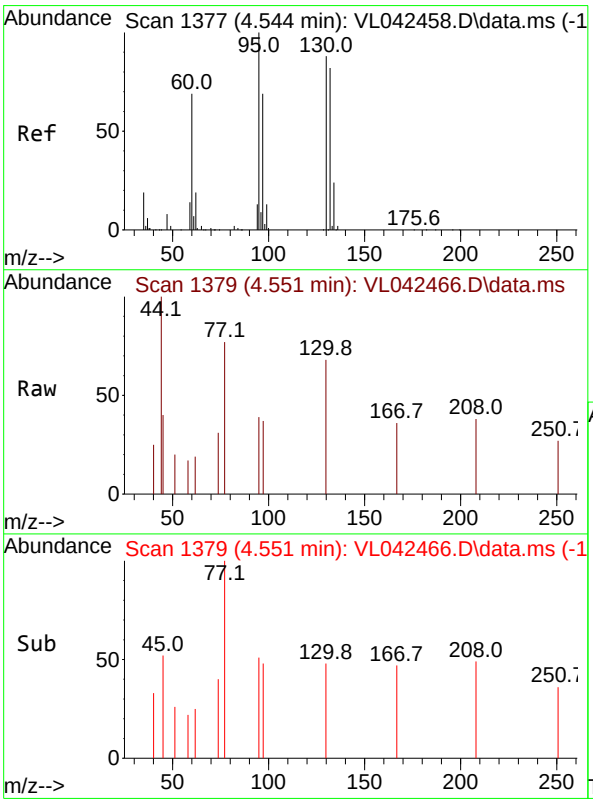
#37
1,2-Dichloroethane
Concen: 0.014 ppbv
RT: 3.227 min Scan# 9
Delta R.T. 0.010 min
Lab File: VL042466.D
Acq: 01 May 2025 14:10

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion: 62 Resp: 190

Ion	Ratio	Lower	Upper
62	100		
98	0.0	4.3	6.5#

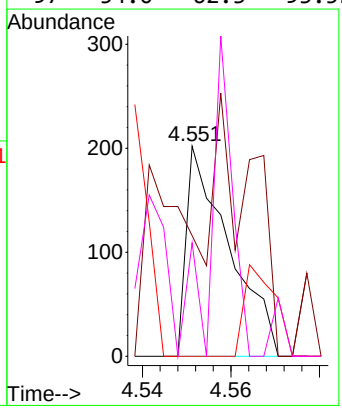


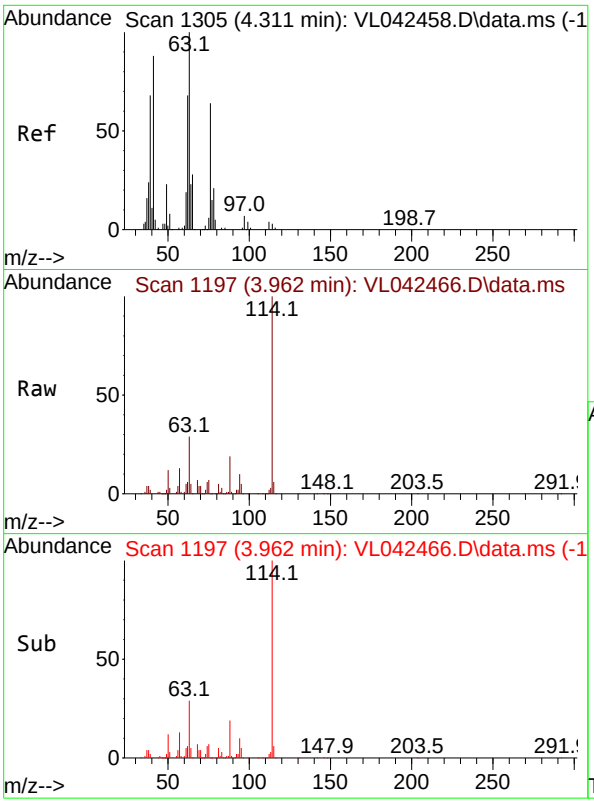


#38
Trichloroethene
Concen: 0.020 ppbv
RT: 4.551 min Scan# 1379
Delta R.T. 0.007 min
Lab File: VL042466.D
Acq: 01 May 2025 14:10

Tgt Ion:130 Resp: 135

Ion	Ratio	Lower	Upper
130	100		
95	57.4	91.0	136.4#
132	0.0	74.2	111.4#
97	54.0	62.3	93.5#



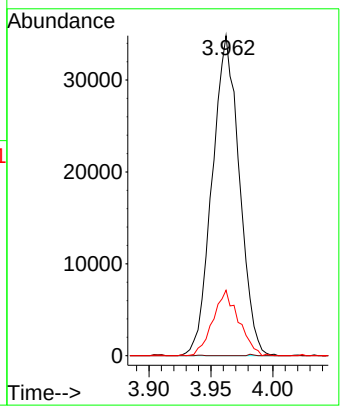


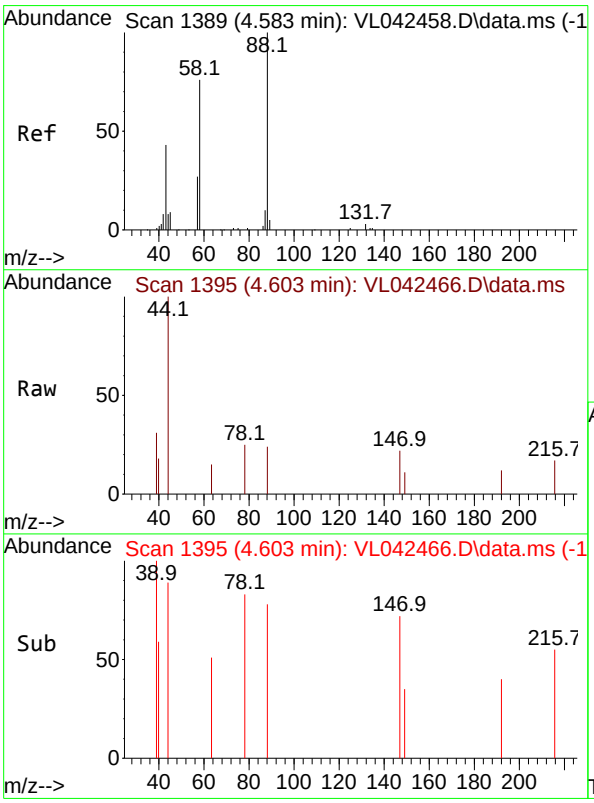
#39
1,2-Dichloropropane
Concen: 8.063 ppbv
RT: 3.962 min Scan# 1
Delta R.T. -0.349 min
Lab File: VL042466.D
Acq: 01 May 2025 14:10

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion: 63 Resp: 53226

Ion	Ratio	Lower	Upper
63	100		
41	0.0	69.8	104.6#
62	20.4	54.3	81.5#

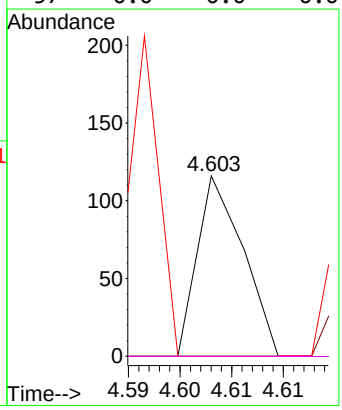


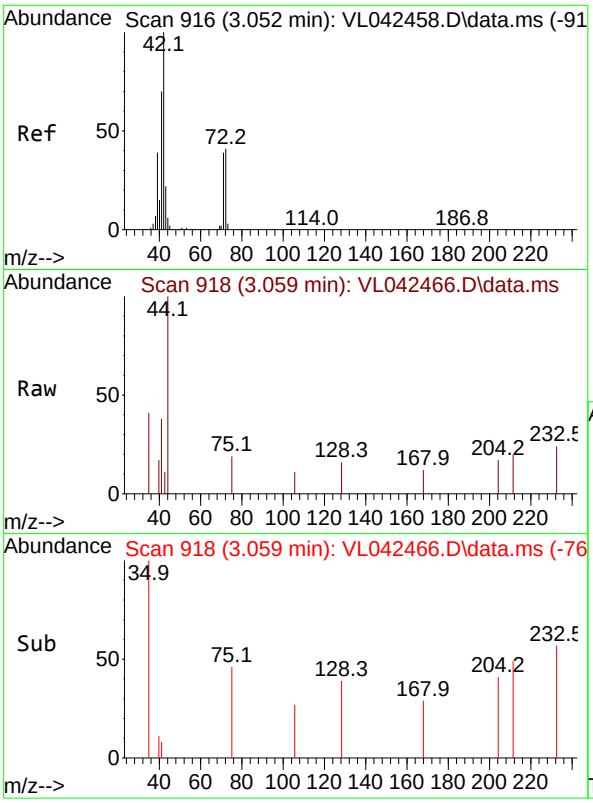


#40
1,4-Dioxane
Concen: 0.012 ppbv
RT: 4.603 min Scan# 1395
Delta R.T. 0.020 min
Lab File: VL042466.D
Acq: 01 May 2025 14:10

Tgt Ion: 88 Resp: 36

Ion	Ratio	Lower	Upper
88	100		
58	0.0	0.0	0.0
43	463.9	0.0	0.0#
57	0.0	0.0	0.0



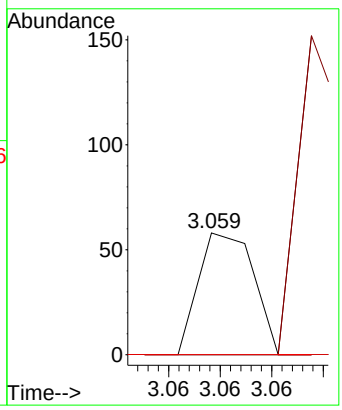


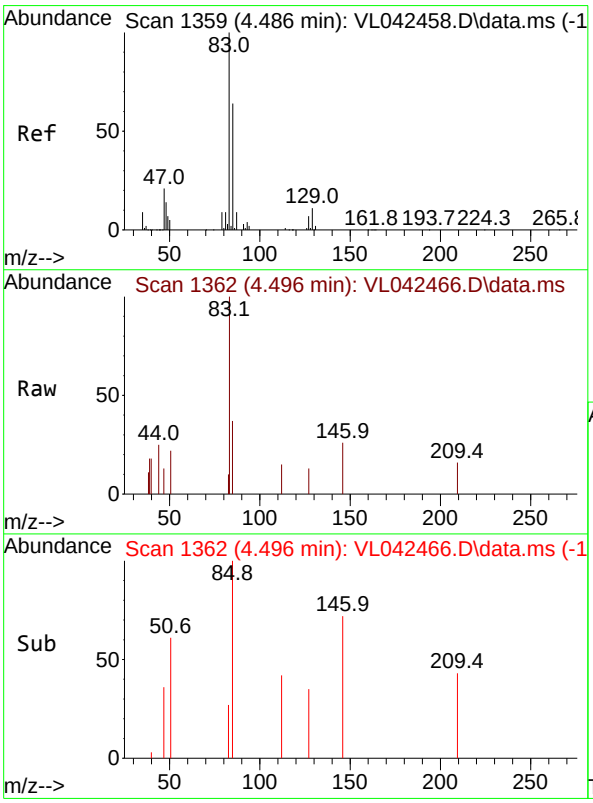
#41
Tetrahydrofuran
Concen: 0.003 ppbv
RT: 3.059 min Scan# 9
Delta R.T. 0.007 min
Lab File: VL042466.D
Acq: 01 May 2025 14:10

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion: 42 Resp: 22

Ion	Ratio	Lower	Upper
42	100		
72	0.0	33.5	50.3#
71	0.0	32.6	49.0#

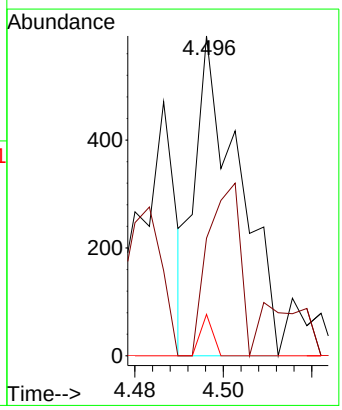


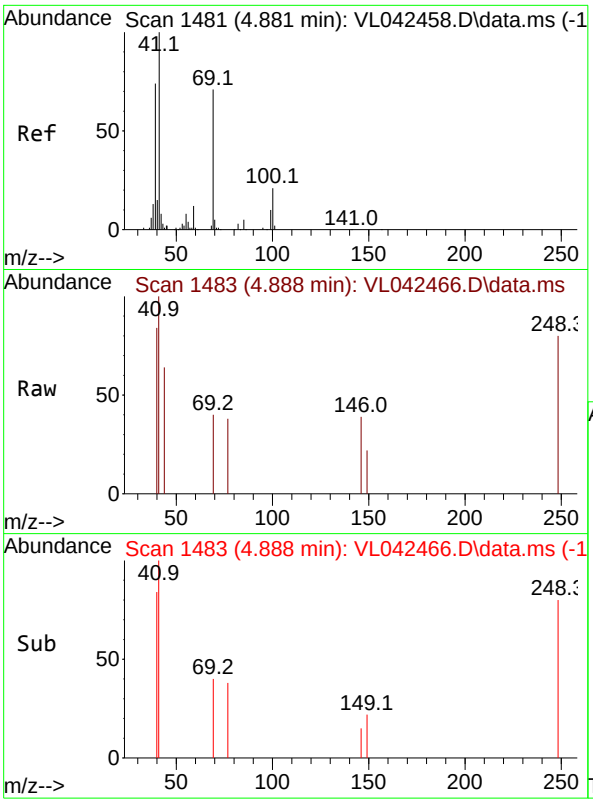


#42
Bromodichloromethane
Concen: 0.024 ppbv
RT: 4.496 min Scan# 1362
Delta R.T. 0.010 min
Lab File: VL042466.D
Acq: 01 May 2025 14:10

Tgt Ion: 83 Resp: 405

Ion	Ratio	Lower	Upper
83	100		
85	36.8	51.5	77.3#
127	13.0	5.4	8.2#



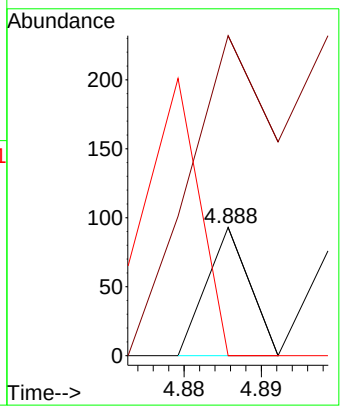


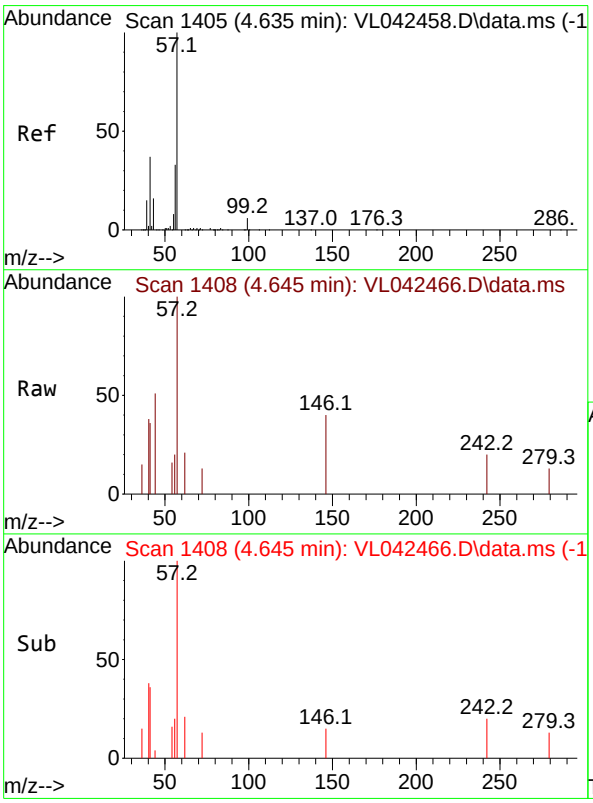
#43
Methyl Methacrylate
Concen: 0.003 ppbv
RT: 4.888 min Scan# 14
Delta R.T. 0.007 min
Lab File: VL042466.D
Acq: 01 May 2025 14:10

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion: 69 Resp: 18

Ion	Ratio	Lower	Upper
69	100		
41	1616.7	120.8	181.2#
100	288.9	26.7	40.1#

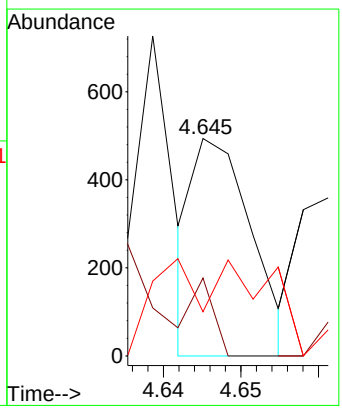


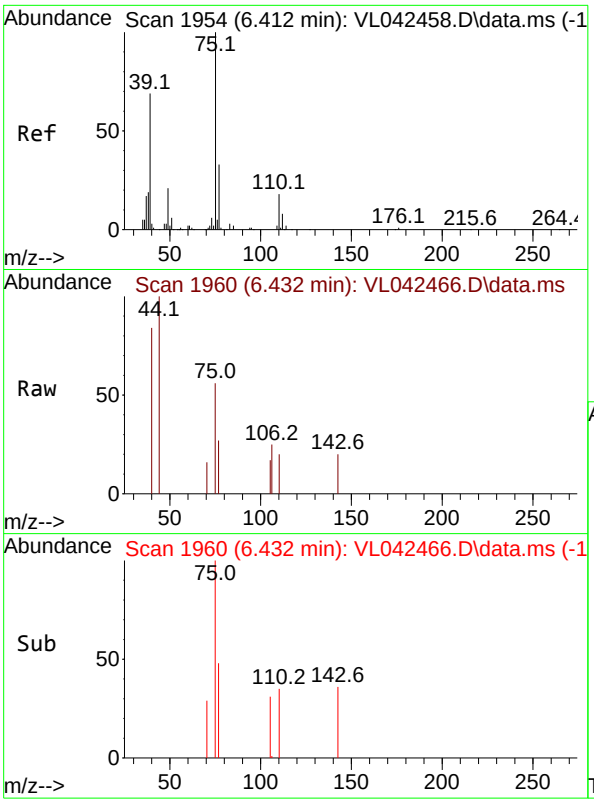


#44
2,2,4-Trimethylpentane
Concen: 0.009 ppbv
RT: 4.645 min Scan# 1408
Delta R.T. 0.010 min
Lab File: VL042466.D
Acq: 01 May 2025 14:10

Tgt Ion: 57 Resp: 259

Ion	Ratio	Lower	Upper
57	100		
41	0.0	30.6	45.8#
56	118.1	25.0	37.6#



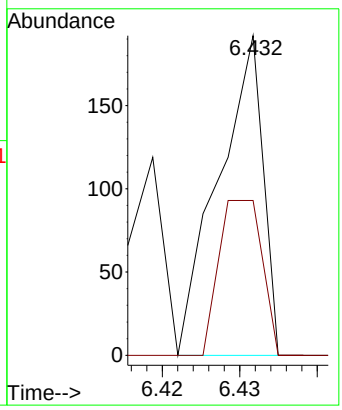


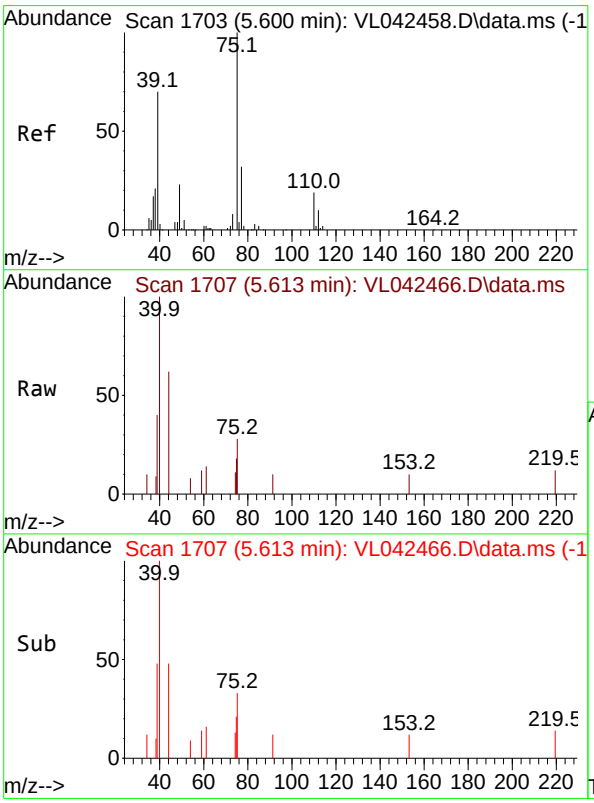
#45
t-1,3-Dichloropropene
Concen: 0.009 ppbv
RT: 6.432 min Scan# 1
Delta R.T. 0.020 min
Lab File: VL042466.D
Acq: 01 May 2025 14:10

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion: 75 Resp: 77

Ion	Ratio	Lower	Upper
75	100		
77	48.4	26.3	39.5#

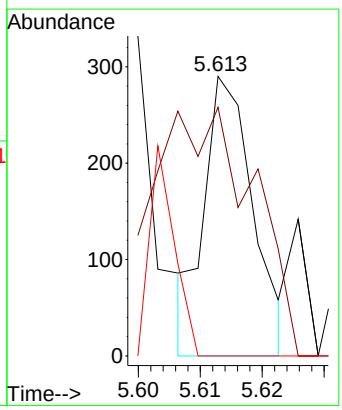


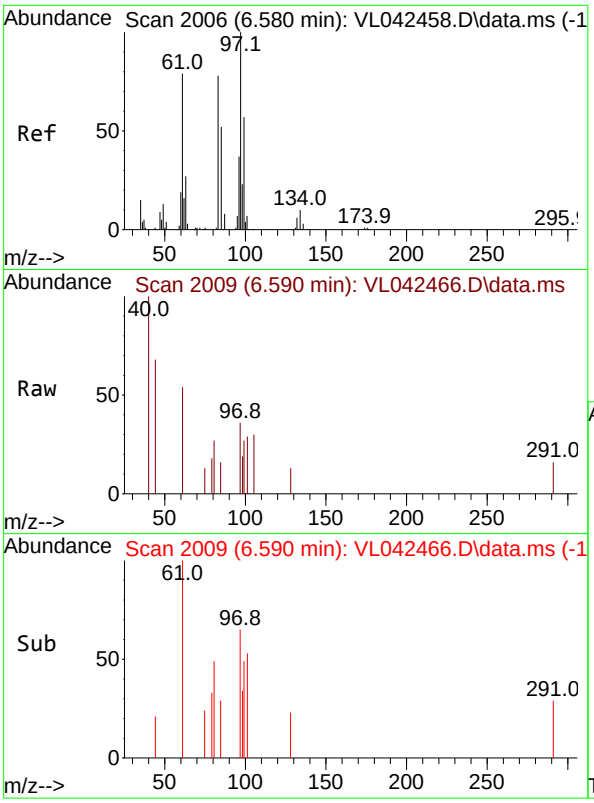


#46
cis-1,3-Dichloropropene
Concen: 0.015 ppbv
RT: 5.613 min Scan# 1707
Delta R.T. 0.013 min
Lab File: VL042466.D
Acq: 01 May 2025 14:10

Tgt Ion: 75 Resp: 158

Ion	Ratio	Lower	Upper
75	100		
39	63.4	55.7	83.5
77	0.0	25.8	38.8#



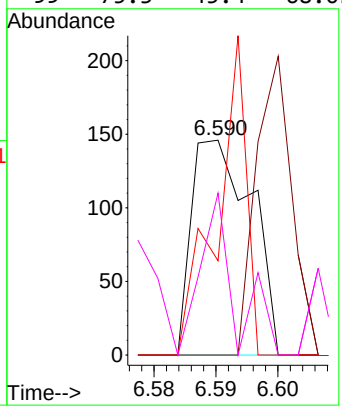


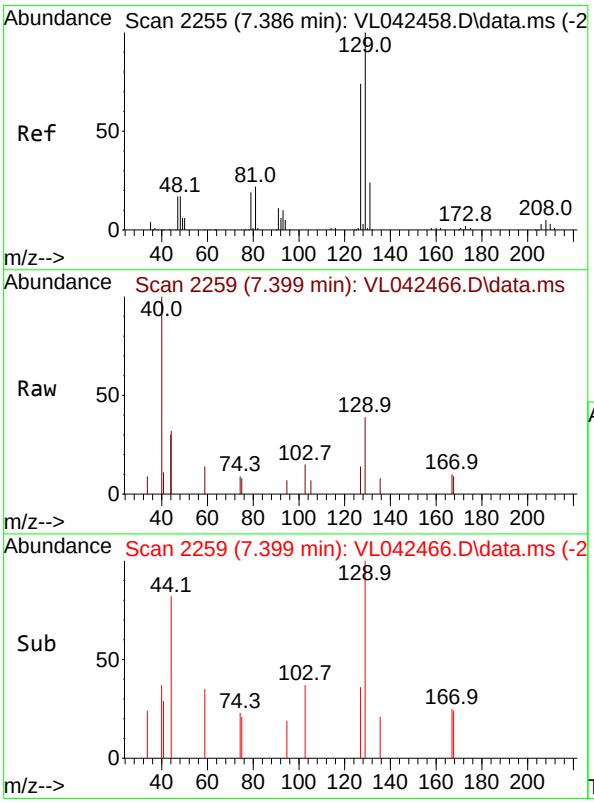
#47
1,1,2-Trichloroethane
Concen: 0.014 ppbv
RT: 6.590 min Scan# 2
Delta R.T. 0.010 min
Lab File: VL042466.D
Acq: 01 May 2025 14:10

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion: 97 Resp: 98

Ion	Ratio	Lower	Upper
97	100		
83	0.0	62.2	93.2#
85	43.8	41.5	62.3
99	75.3	45.4	68.0#

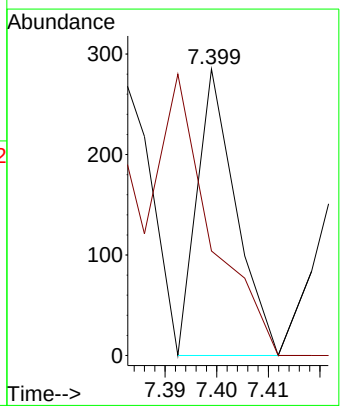


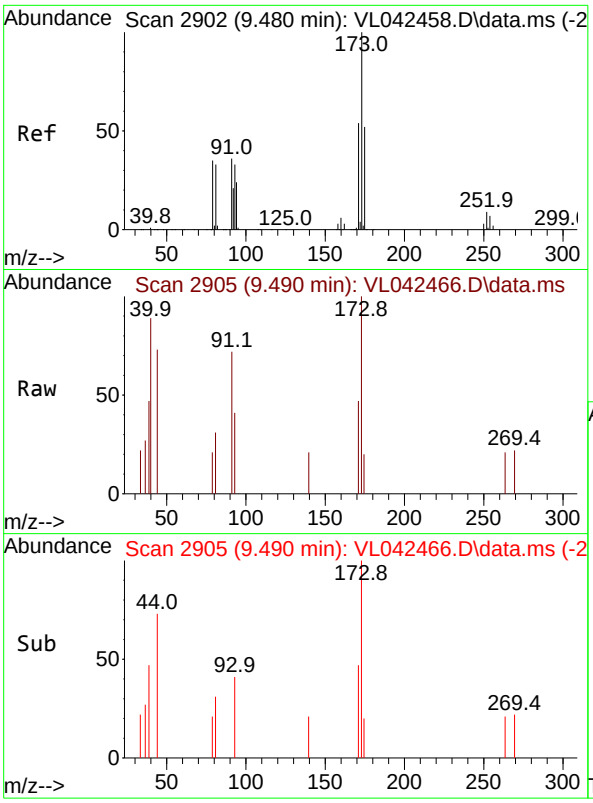


#48
Dibromochloromethane
Concen: 0.006 ppbv
RT: 7.399 min Scan# 2259
Delta R.T. 0.013 min
Lab File: VL042466.D
Acq: 01 May 2025 14:10

Tgt Ion:129 Resp: 75

Ion	Ratio	Lower	Upper
129	100		
127	0.0	39.5	118.5#



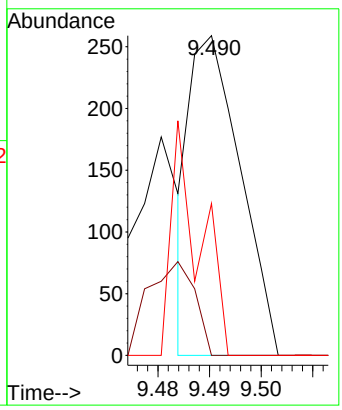


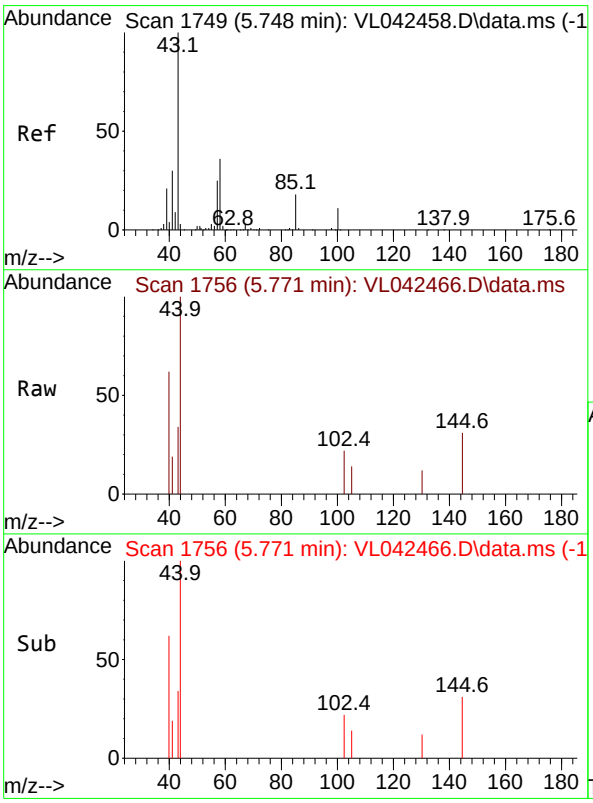
#49
Bromoform
Concen: 0.017 ppbv
RT: 9.490 min Scan# 2
Delta R.T. 0.010 min
Lab File: VL042466.D
Acq: 01 May 2025 14:10

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion:173 Resp: 176

Ion	Ratio	Lower	Upper
173	100		
175	0.0	38.9	58.3#
171	0.0	40.6	60.8#

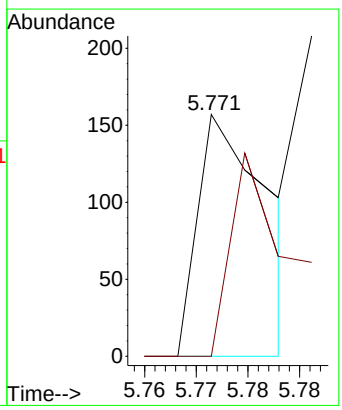


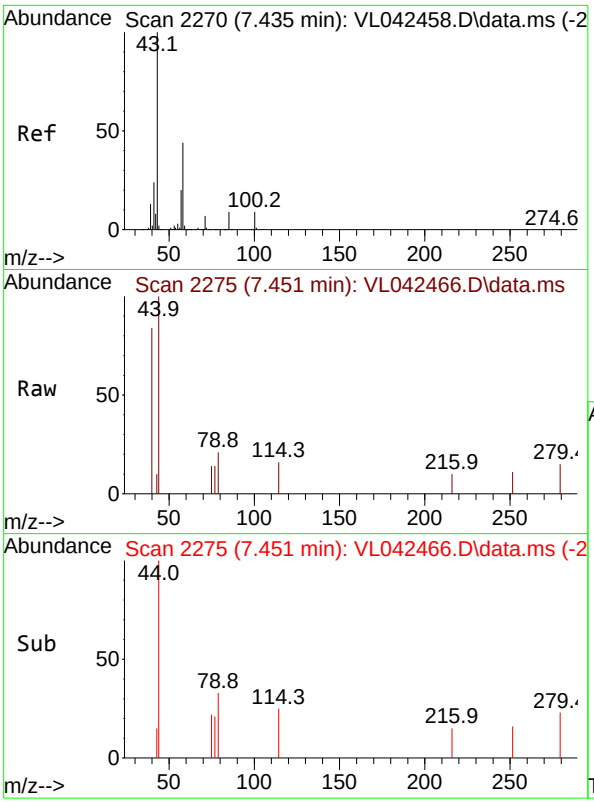


#50
4-Methyl-2-Pentanone
Concen: 0.004 ppbv
RT: 5.771 min Scan# 1756
Delta R.T. 0.023 min
Lab File: VL042466.D
Acq: 01 May 2025 14:10

Tgt Ion: 43 Resp: 74

Ion	Ratio	Lower	Upper
43	100		
58	67.6	29.5	44.3#



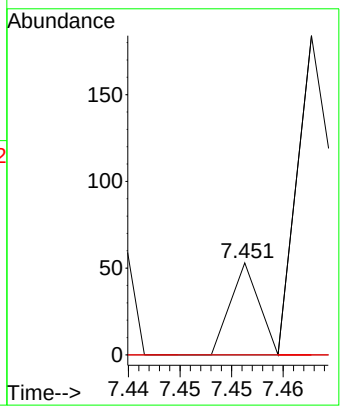


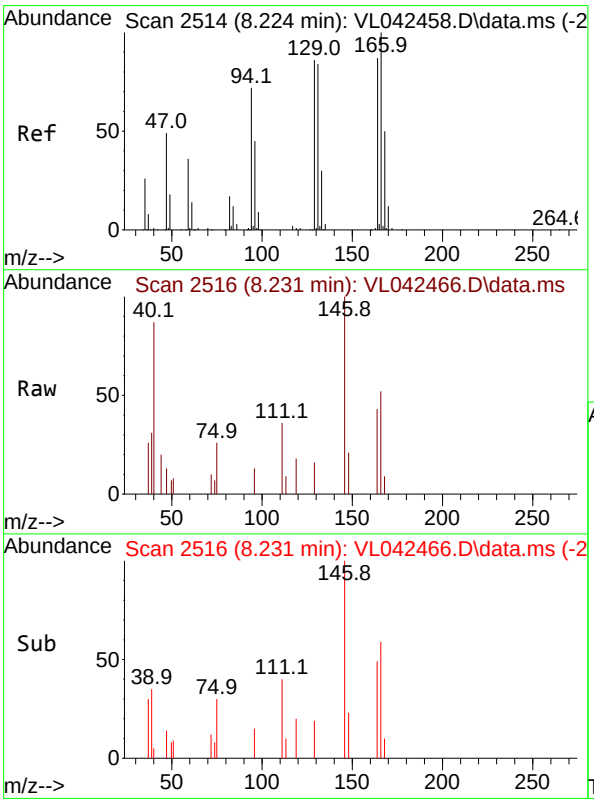
#51
2-Hexanone
Concen: 0.001 ppbv
RT: 7.451 min Scan# 2
Delta R.T. 0.017 min
Lab File: VL042466.D
Acq: 01 May 2025 14:10

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion: 43 Resp: 10

Ion	Ratio	Lower	Upper
43	100		
58	0.0	37.2	55.8#
98	0.0	0.4	0.6#

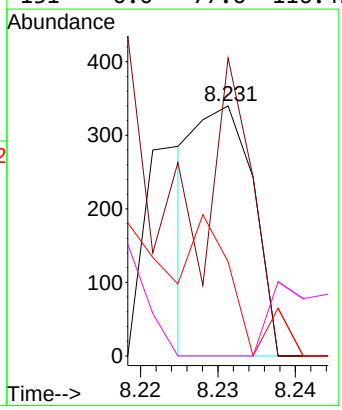


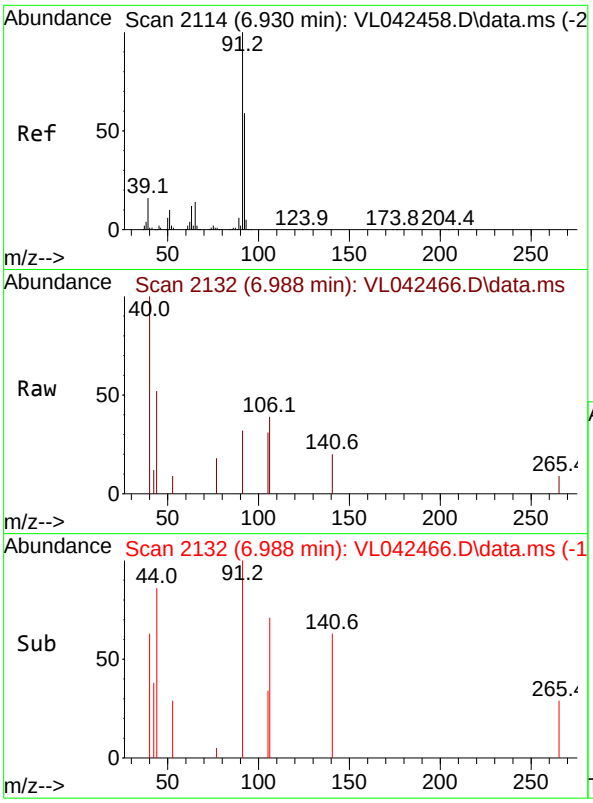


#52
Tetrachloroethene
Concen: 0.026 ppbv
RT: 8.231 min Scan# 2516
Delta R.T. 0.007 min
Lab File: VL042466.D
Acq: 01 May 2025 14:10

Tgt Ion:164 Resp: 176

Ion	Ratio	Lower	Upper
164	100		
166	119.1	91.6	137.4
129	18.5	79.0	118.4#
131	0.0	77.6	116.4#



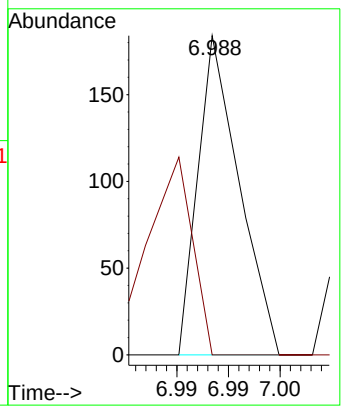


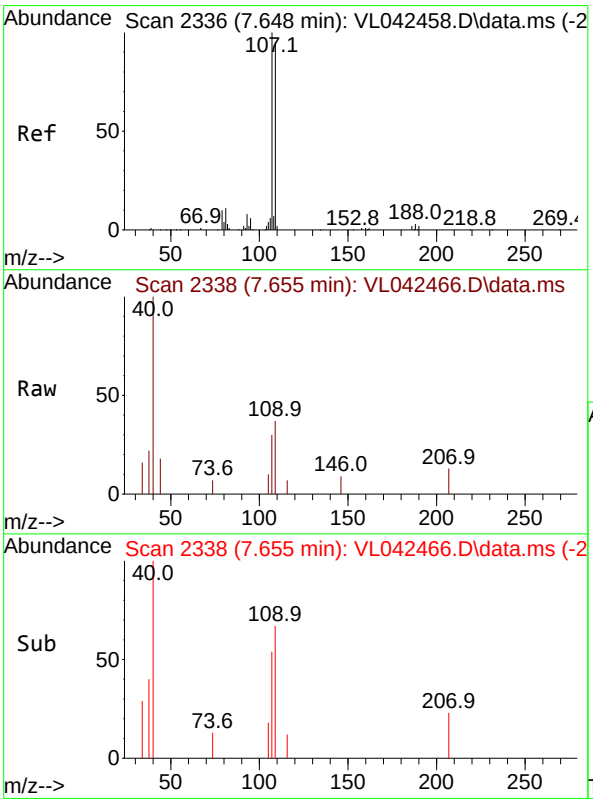
#53
Toluene
Concen: 0.003 ppbv
RT: 6.988 min Scan# 21
Delta R.T. 0.059 min
Lab File: VL042466.D
Acq: 01 May 2025 14:10

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion: 91 Resp: 51

Ion	Ratio	Lower	Upper
91	100		
92	66.7	47.9	71.9

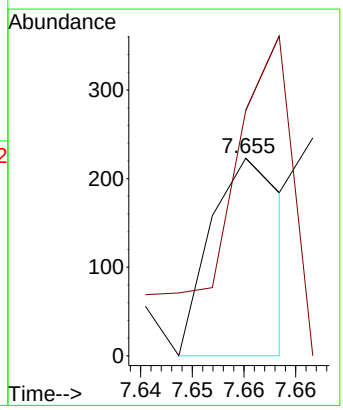


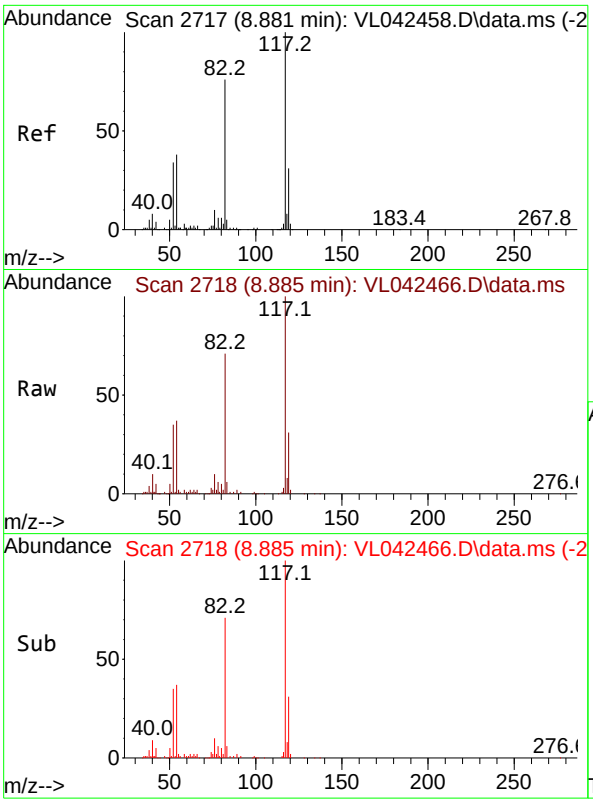


#54
1,2-Dibromoethane
Concen: 0.010 ppbv
RT: 7.655 min Scan# 2338
Delta R.T. 0.007 min
Lab File: VL042466.D
Acq: 01 May 2025 14:10

Tgt Ion:107 Resp: 110

Ion	Ratio	Lower	Upper
107	100		
109	92.4	76.0	114.0



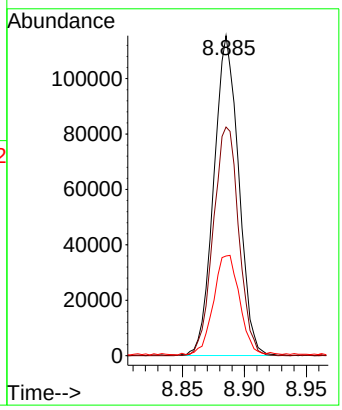


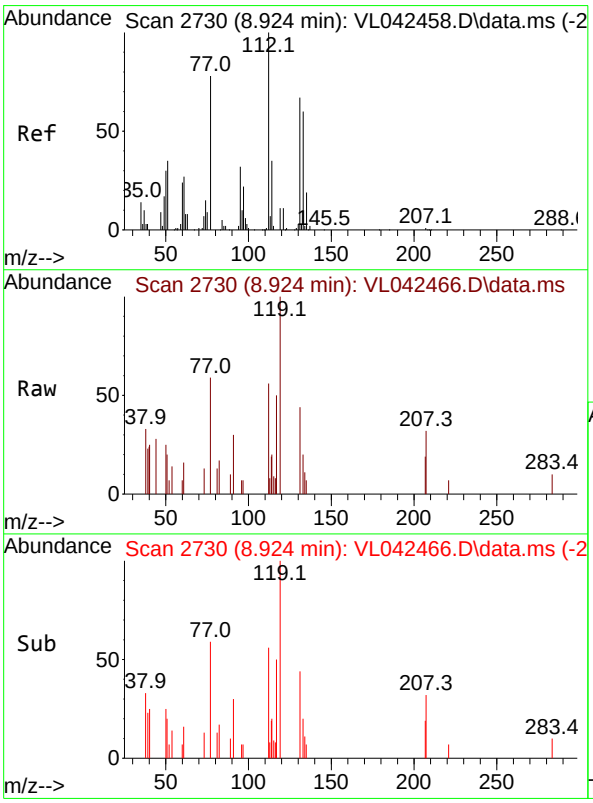
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.885 min Scan# 2
Delta R.T. 0.004 min
Lab File: VL042466.D
Acq: 01 May 2025 14:10

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion:117 Resp: 161050

Ion	Ratio	Lower	Upper
117	100		
82	73.6	63.5	95.3
119	33.8	25.8	38.8

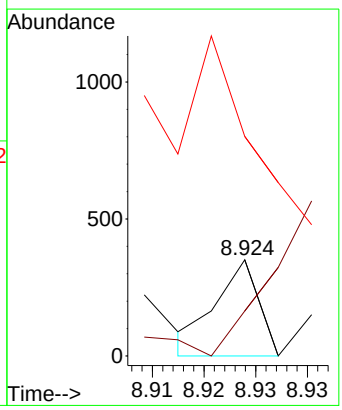


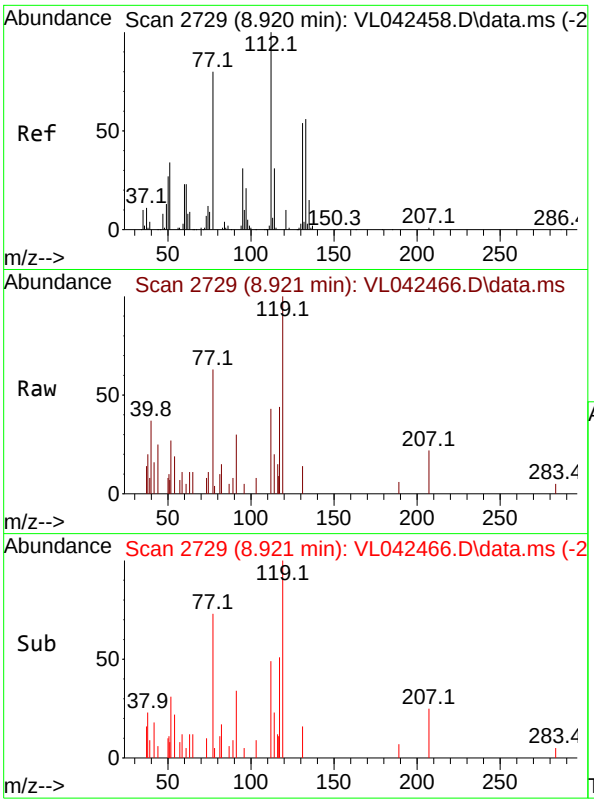


#56
1,1,1,2-Tetrachloroethane
Concen: 0.011 ppbv
RT: 8.924 min Scan# 2730
Delta R.T. 0.000 min
Lab File: VL042466.D
Acq: 01 May 2025 14:10

Tgt Ion:131 Resp: 100

Ion	Ratio	Lower	Upper
131	100		
133	0.0	76.0	114.0#
119	0.0	46.1	69.1#



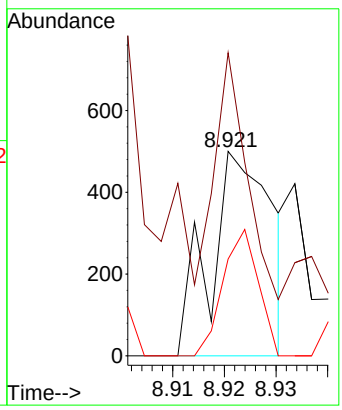


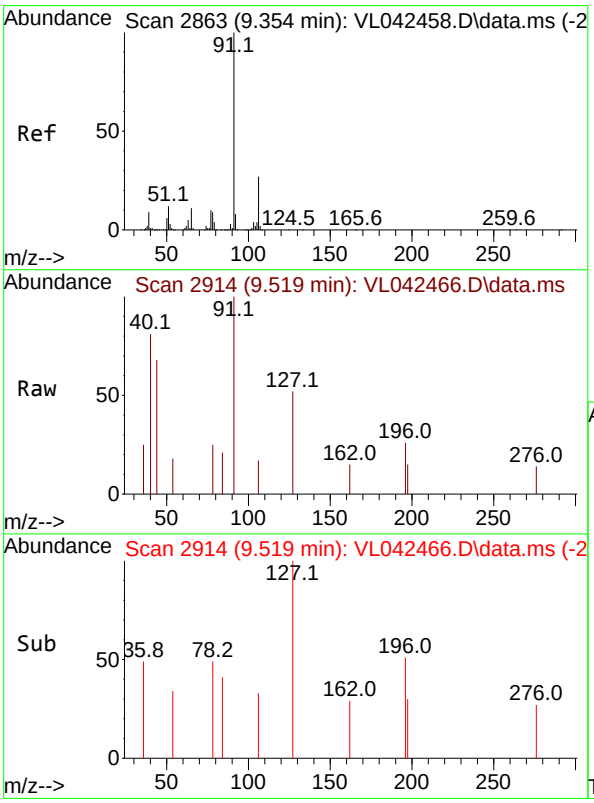
#57
Chlorobenzene
Concen: 0.026 ppbv
RT: 8.921 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042466.D
Acq: 01 May 2025 14:10

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion:112 Resp: 413

Ion	Ratio	Lower	Upper
112	100		
77	120.6	65.0	97.4#
114	47.4	27.5	33.7#

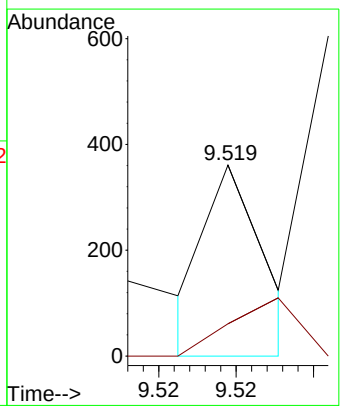


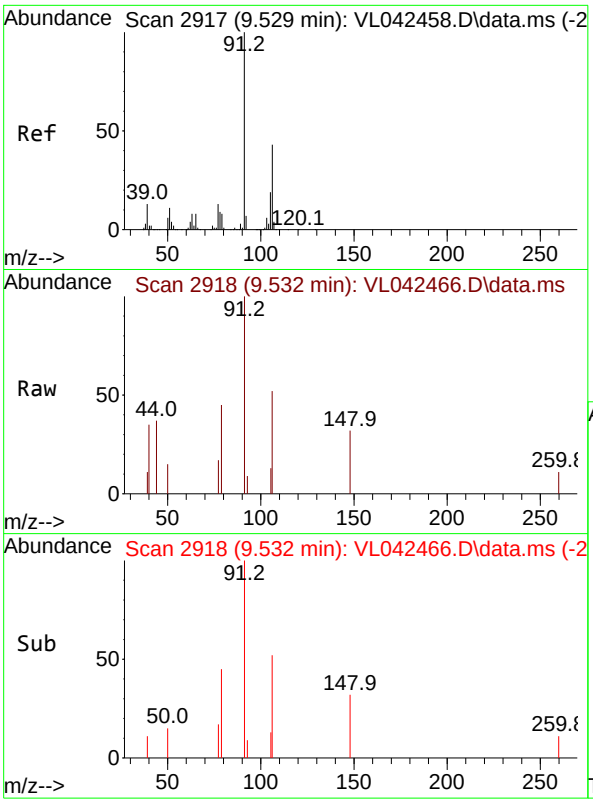


#58
Ethyl Benzene
Concen: 0.003 ppbv
RT: 9.519 min Scan# 2914
Delta R.T. 0.165 min
Lab File: VL042466.D
Acq: 01 May 2025 14:10

Tgt Ion: 91 Resp: 94

Ion	Ratio	Lower	Upper
91	100		
106	24.7	21.9	32.9



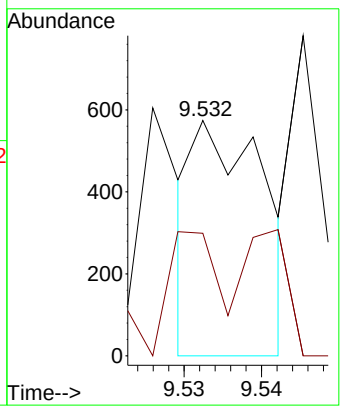


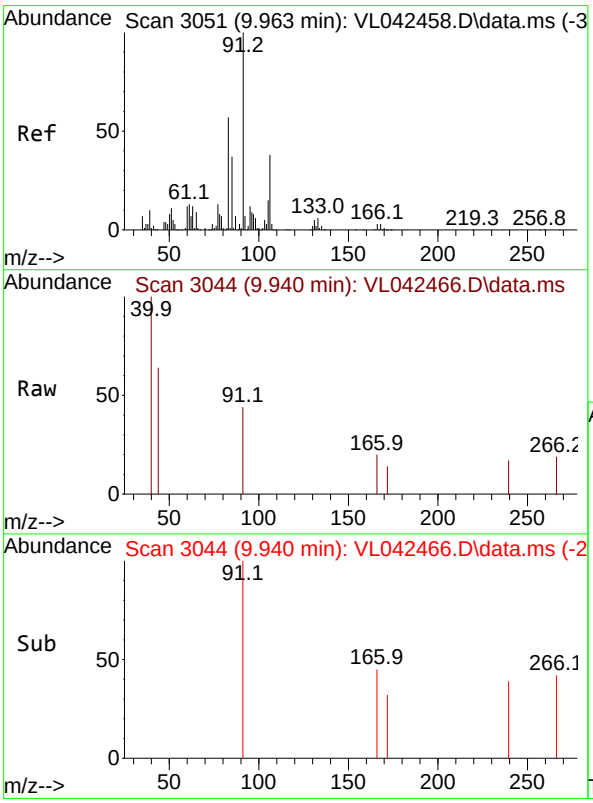
#59
m/p-Xylene
Concen: 0.016 ppbv
RT: 9.532 min Scan# 2
Delta R.T. 0.004 min
Lab File: VL042466.D
Acq: 01 May 2025 14:10

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion: 91 Resp: 367

Ion	Ratio	Lower	Upper
91	100		
106	0.0	34.2	51.2#

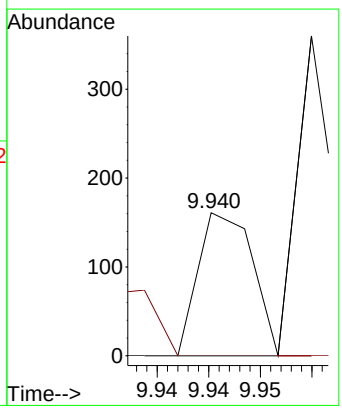


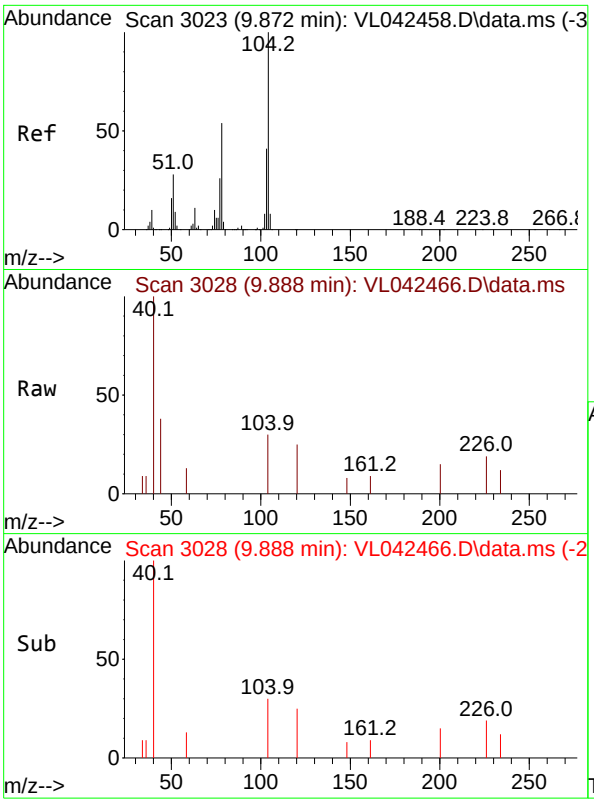


#60
o-Xylene
Concen: 0.003 ppbv
RT: 9.940 min Scan# 3044
Delta R.T. -0.022 min
Lab File: VL042466.D
Acq: 01 May 2025 14:10

Tgt Ion: 91 Resp: 59

Ion	Ratio	Lower	Upper
91	100		
106	47.5	20.1	60.2



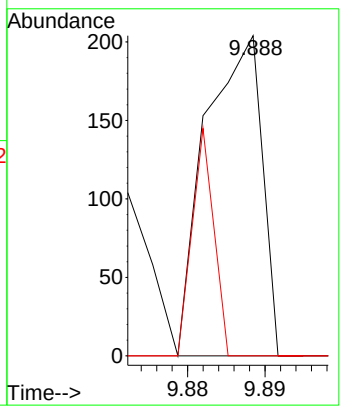


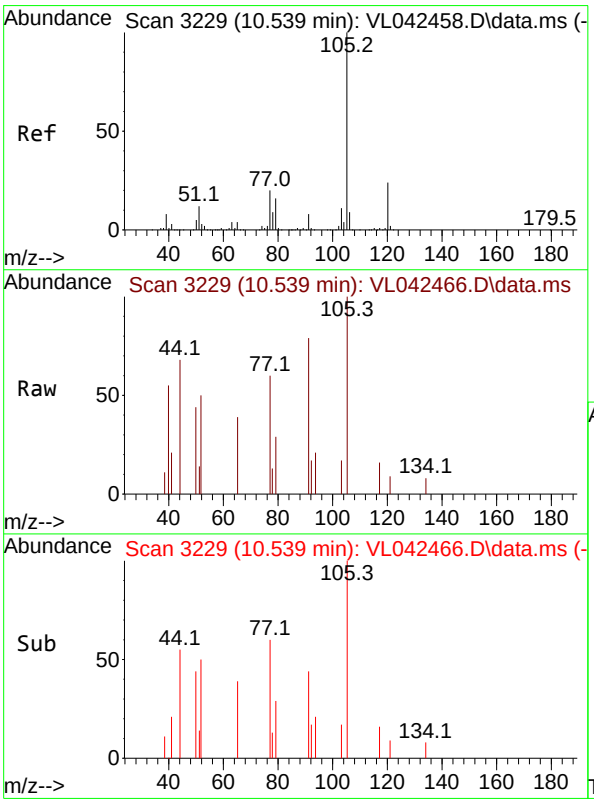
#61
Styrene
Concen: 0.012 ppbv
RT: 9.888 min Scan# 3
Delta R.T. 0.017 min
Lab File: VL042466.D
Acq: 01 May 2025 14:10

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion:104 Resp: 103

Ion	Ratio	Lower	Upper
104	100		
78	0.0	46.9	70.3#
103	27.2	36.6	55.0#

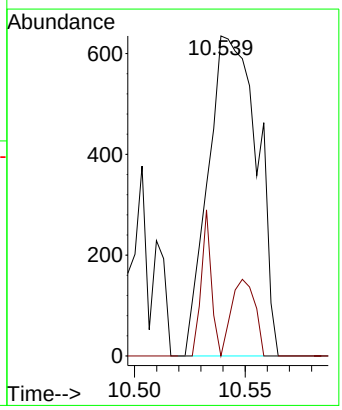


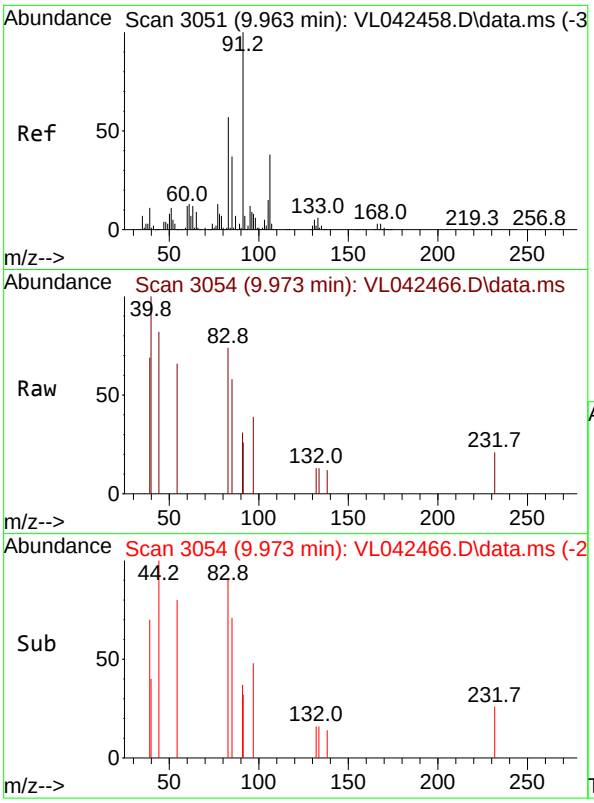


#62
Isopropylbenzene
Concen: 0.030 ppbv
RT: 10.539 min Scan# 3229
Delta R.T. 0.000 min
Lab File: VL042466.D
Acq: 01 May 2025 14:10

Tgt Ion:105 Resp: 978

Ion	Ratio	Lower	Upper
105	100		
120	20.9	18.8	28.2



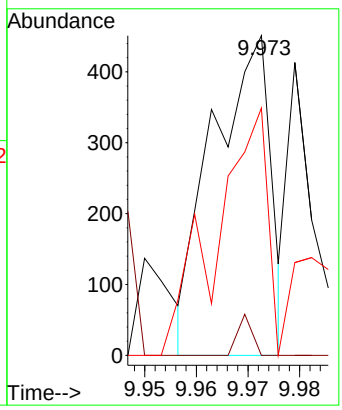


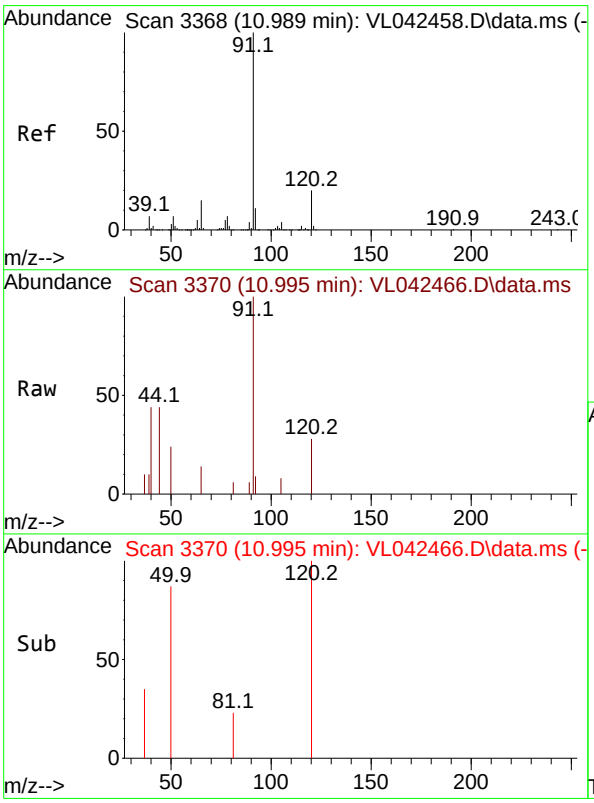
#63
1,1,2,2-Tetrachloroethane
Concen: 0.024 ppbv
RT: 9.973 min Scan# 3
Delta R.T. 0.010 min
Lab File: VL042466.D
Acq: 01 May 2025 14:10

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion: 83 Resp: 354

Ion	Ratio	Lower	Upper
83	100		
131	0.0	4.7	14.1#
85	92.1	32.5	97.4

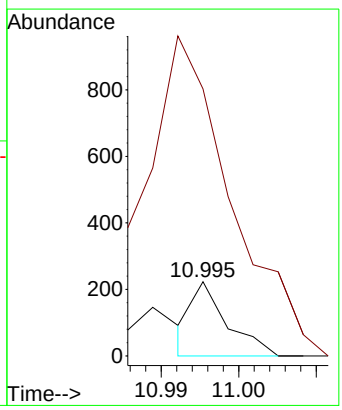


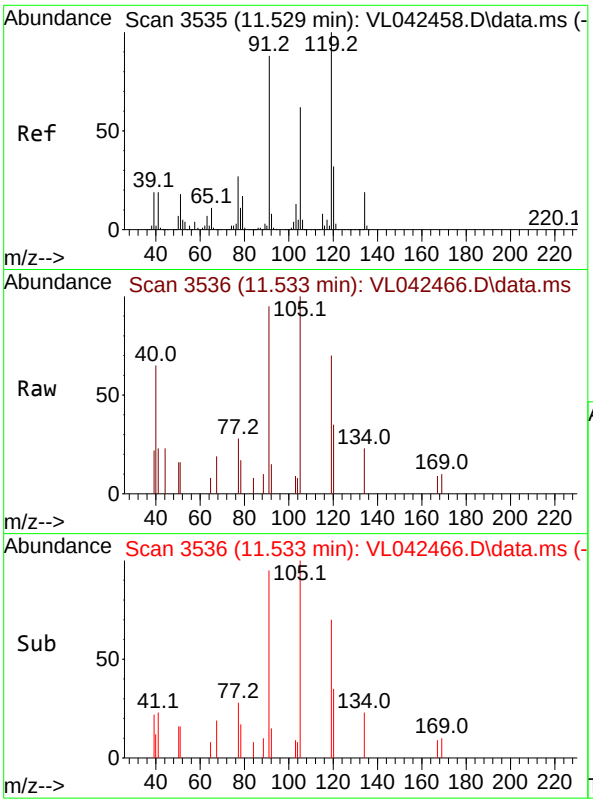


#64
n-propylbenzene
Concen: 0.009 ppbv
RT: 10.995 min Scan# 3370
Delta R.T. 0.007 min
Lab File: VL042466.D
Acq: 01 May 2025 14:10

Tgt Ion:120 Resp: 70

Ion	Ratio	Lower	Upper
120	100		
91	1327.1	408.6	612.8#



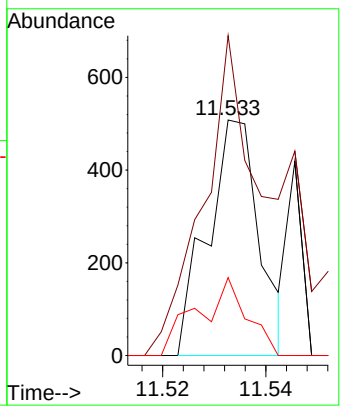


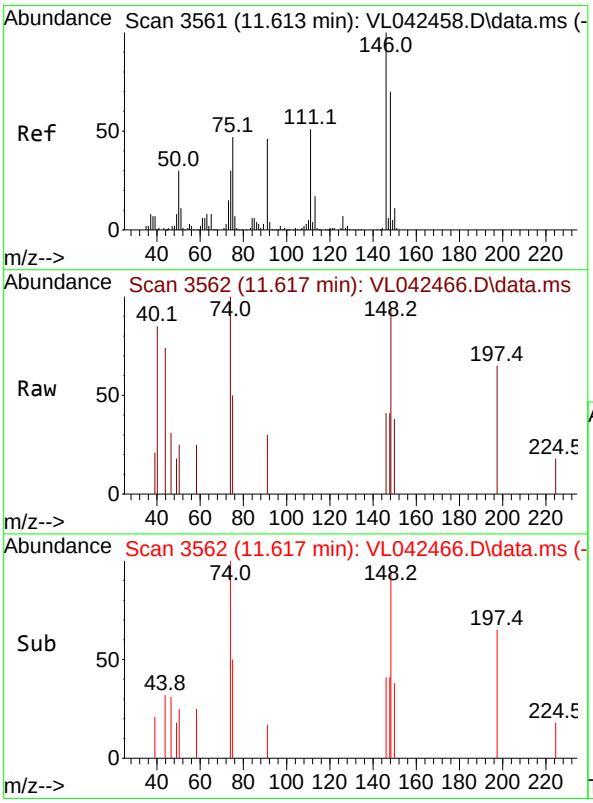
#65
tert-Butylbenzene
Concen: 0.012 ppbv
RT: 11.533 min Scan# 3
Delta R.T. 0.004 min
Lab File: VL042466.D
Acq: 01 May 2025 14:10

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion:119 Resp: 355

Ion	Ratio	Lower	Upper
119	100		
91	185.9	71.6	107.4#
134	31.5	15.0	22.4#

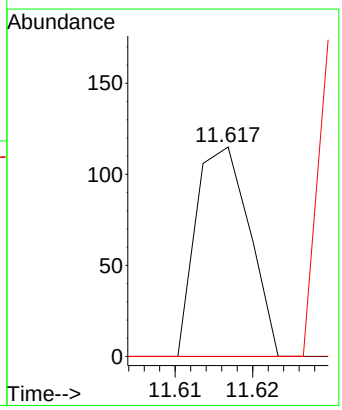


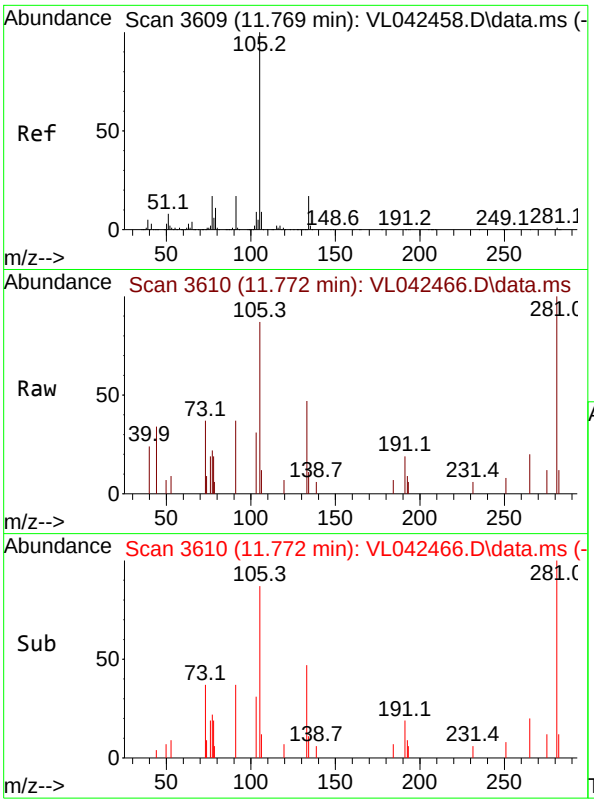


#66
Benzyl Chloride
Concen: 0.016 ppbv
RT: 11.617 min Scan# 3562
Delta R.T. 0.004 min
Lab File: VL042466.D
Acq: 01 May 2025 14:10

Tgt Ion: 91 Resp: 55

Ion	Ratio	Lower	Upper
91	100		
126	0.0	13.3	19.9#
128	0.0	4.2	6.4#



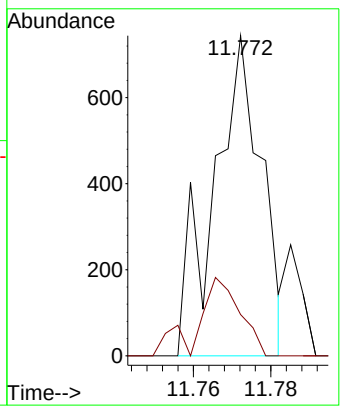


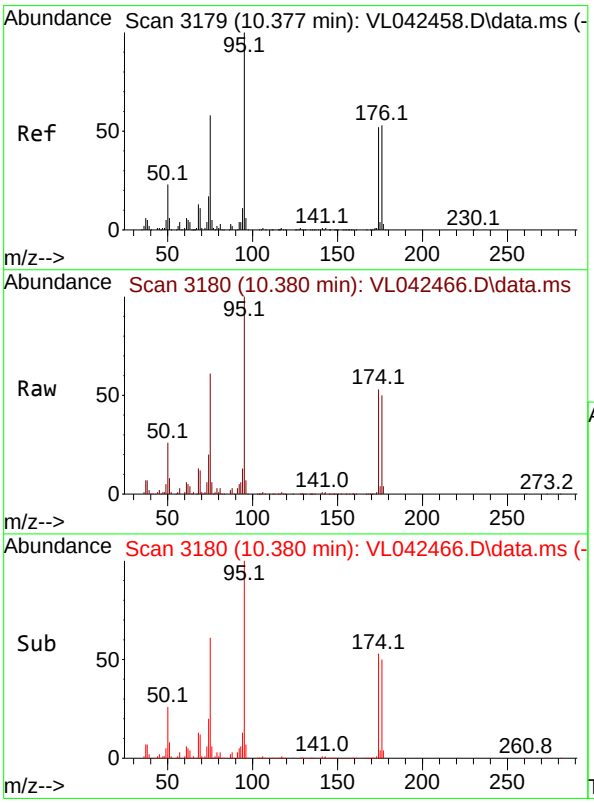
#67
sec-Butylbenzene
Concen: 0.015 ppbv
RT: 11.772 min Scan# 3
Delta R.T. 0.004 min
Lab File: VL042466.D
Acq: 01 May 2025 14:10

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion:105 Resp: 635

Ion	Ratio	Lower	Upper
105	100		
134	21.9	14.1	21.1#

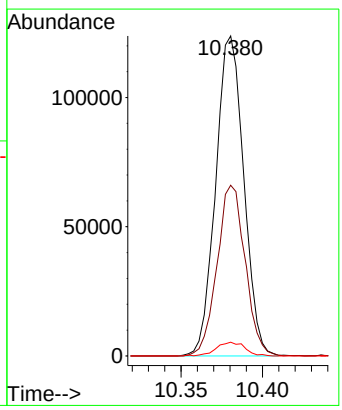


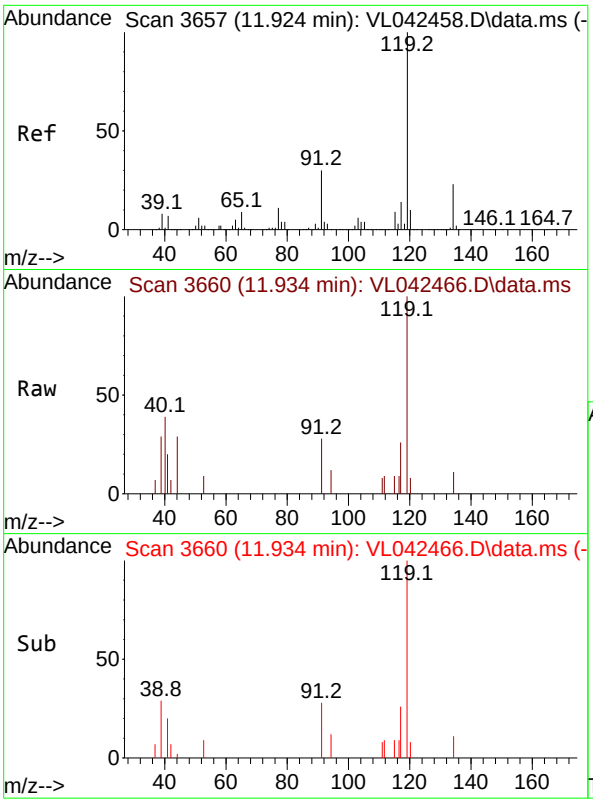


#68
1-Bromo-4-Fluorobenzene
Concen: 9.918 ppbv
RT: 10.380 min Scan# 3180
Delta R.T. 0.004 min
Lab File: VL042466.D
Acq: 01 May 2025 14:10

Tgt Ion: 95 Resp: 148088

Ion	Ratio	Lower	Upper
95	100		
174	53.5	42.7	64.1
175	4.4	3.6	5.4



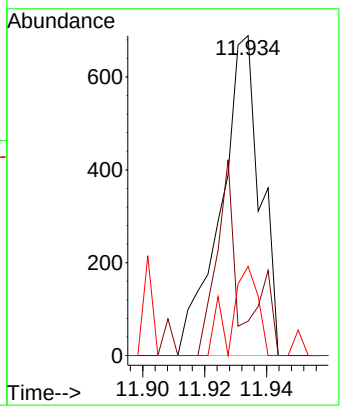


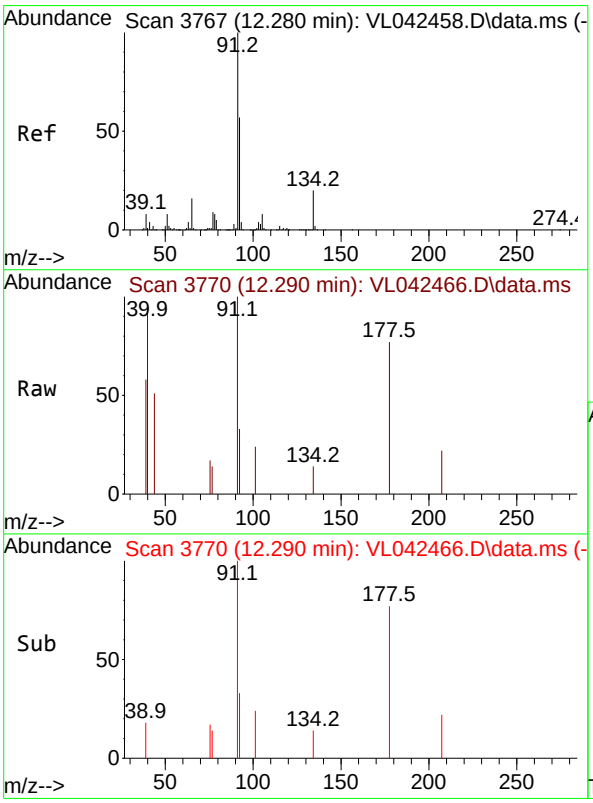
#69
p-Isopropyltoluene
Concen: 0.017 ppbv
RT: 11.934 min Scan# 3
Delta R.T. 0.010 min
Lab File: VL042466.D
Acq: 01 May 2025 14:10

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion:119 Resp: 606

Ion	Ratio	Lower	Upper
119	100		
134	40.6	19.0	28.4#
91	21.0	25.5	38.3#

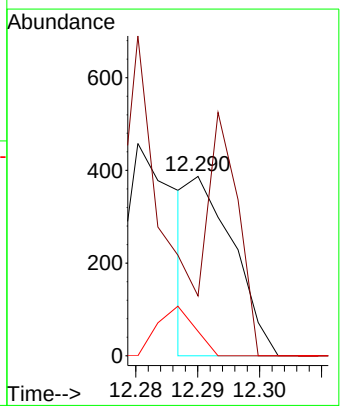


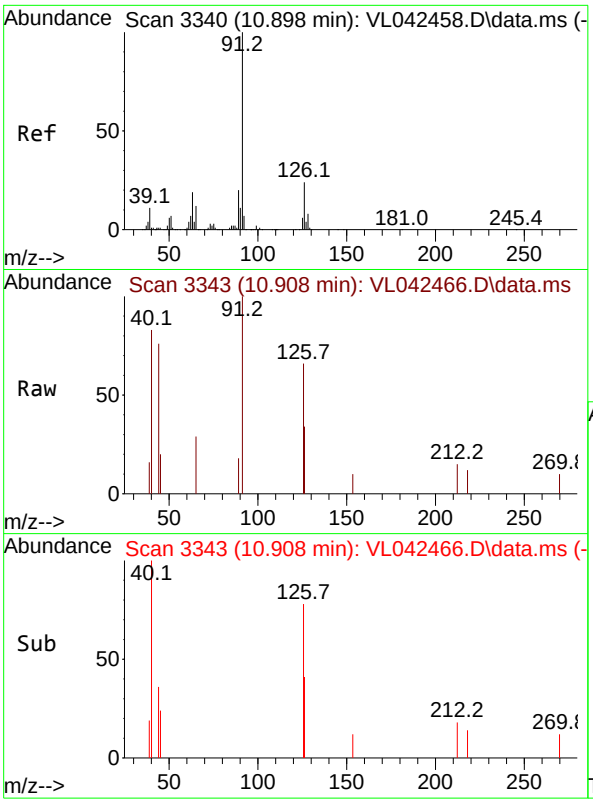


#70
n-Butylbenzene
Concen: 0.005 ppbv
RT: 12.290 min Scan# 3770
Delta R.T. 0.010 min
Lab File: VL042466.D
Acq: 01 May 2025 14:10

Tgt Ion: 91 Resp: 192

Ion	Ratio	Lower	Upper
91	100		
92	0.0	44.0	66.0#
134	23.4	16.8	25.2



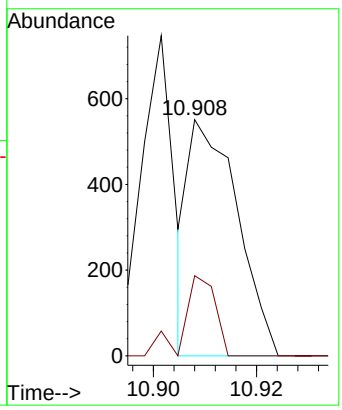


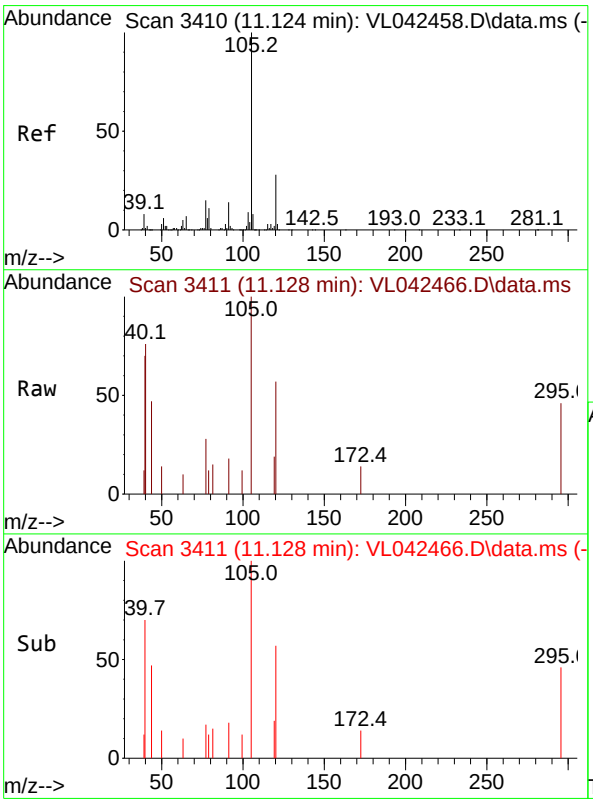
#71
2-Chlorotoluene
Concen: 0.014 ppbv
RT: 10.908 min Scan# 3
Delta R.T. 0.010 min
Lab File: VL042466.D
Acq: 01 May 2025 14:10

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion: 91 Resp: 362

Ion	Ratio	Lower	Upper
91	100		
126	21.8	10.6	42.2

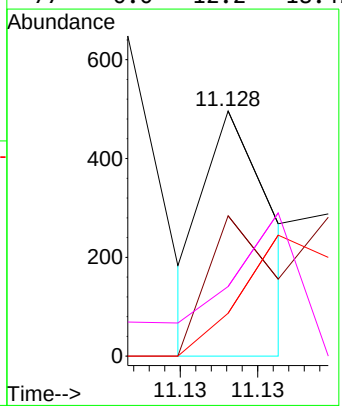


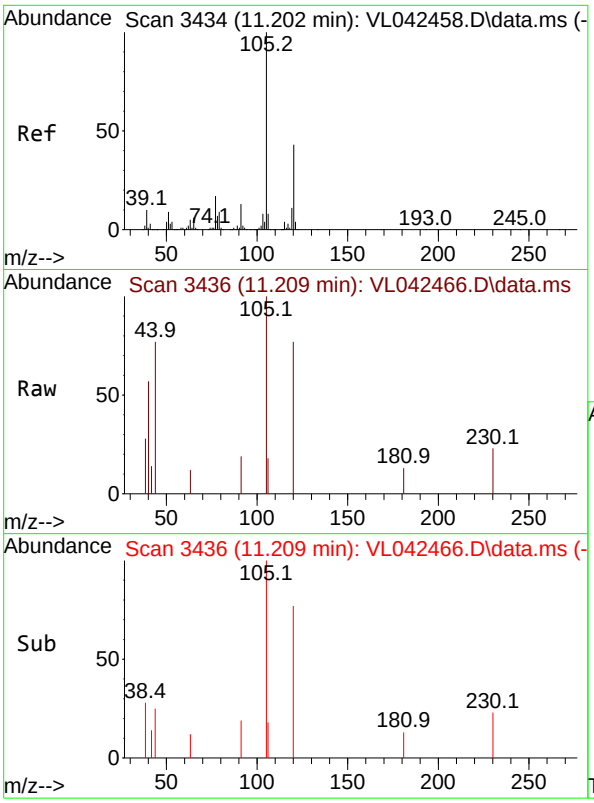


#72
4-Ethyltoluene
Concen: 0.006 ppbv
RT: 11.128 min Scan# 3411
Delta R.T. 0.004 min
Lab File: VL042466.D
Acq: 01 May 2025 14:10

Tgt Ion:105 Resp: 148

Ion	Ratio	Lower	Upper
105	100		
120	122.3	22.0	33.0#
91	0.0	11.2	16.8#
77	0.0	12.2	18.4#



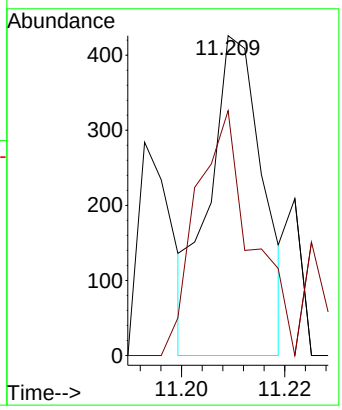


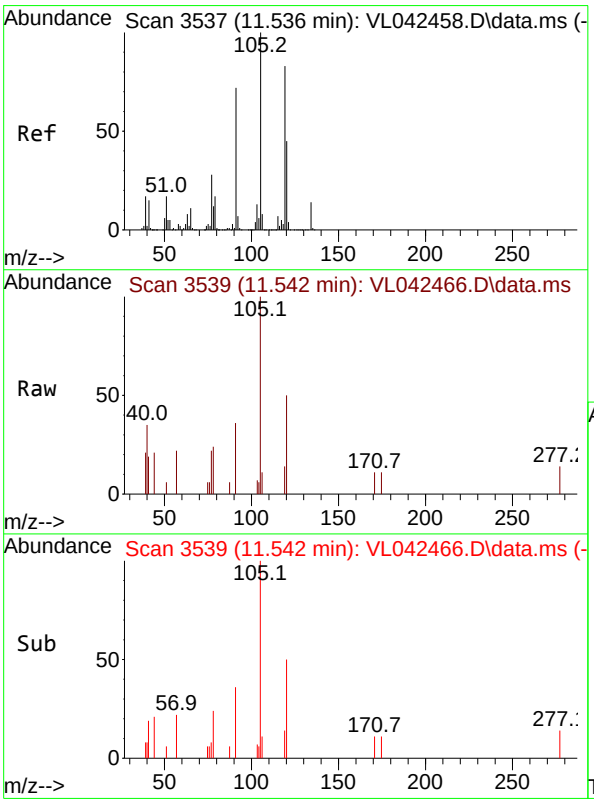
#73
1,3,5-Trimethylbenzene
Concen: 0.013 ppbv
RT: 11.209 min Scan# 34
Delta R.T. 0.007 min
Lab File: VL042466.D
Acq: 01 May 2025 14:10

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion:105 Resp: 307

Ion	Ratio	Lower	Upper
105	100		
120	95.2	34.4	51.6#

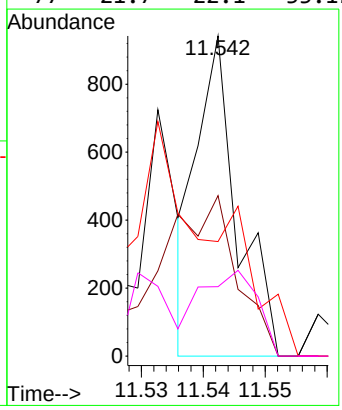


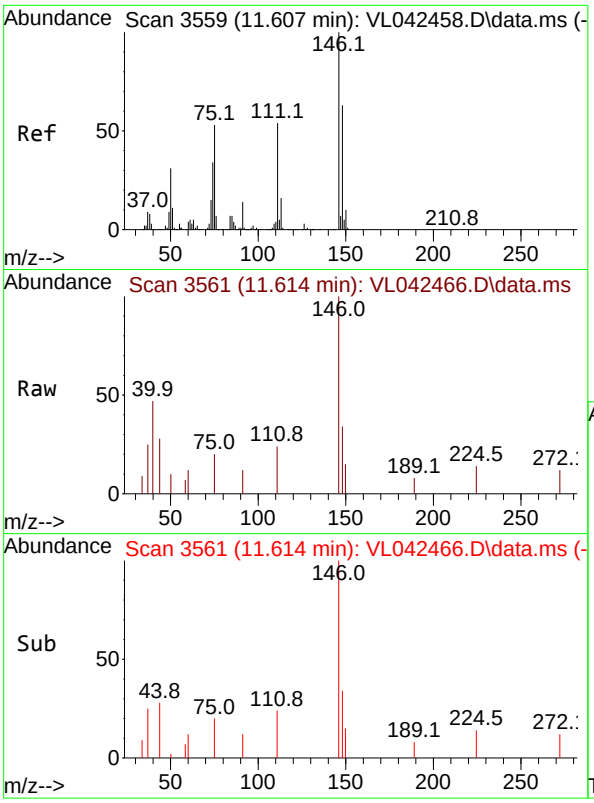


#74
1,2,4-Trimethylbenzene
Concen: 0.015 ppbv
RT: 11.542 min Scan# 3539
Delta R.T. 0.007 min
Lab File: VL042466.D
Acq: 01 May 2025 14:10

Tgt Ion:105 Resp: 424

Ion	Ratio	Lower	Upper
105	100		
120	50.1	36.1	54.1
91	16.5	57.6	86.4#
77	21.7	22.1	33.1#



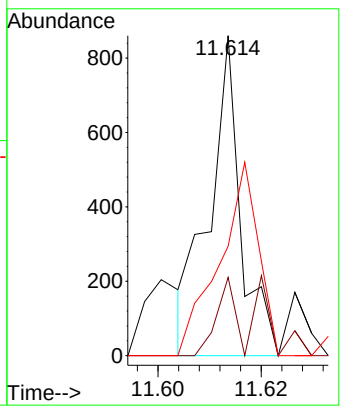


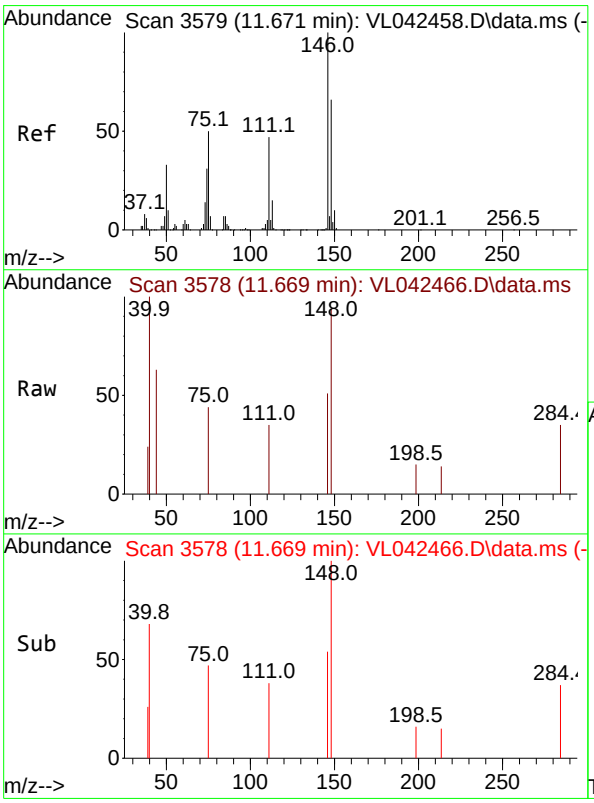
#75
1,3-Dichlorobenzene
Concen: 0.023 ppbv
RT: 11.614 min Scan# 3
Delta R.T. 0.007 min
Lab File: VL042466.D
Acq: 01 May 2025 14:10

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion:146 Resp: 362

Ion	Ratio	Lower	Upper
146	100		
111	29.8	26.1	78.3
148	83.4	32.0	96.0

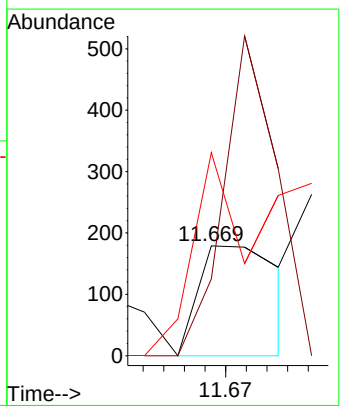


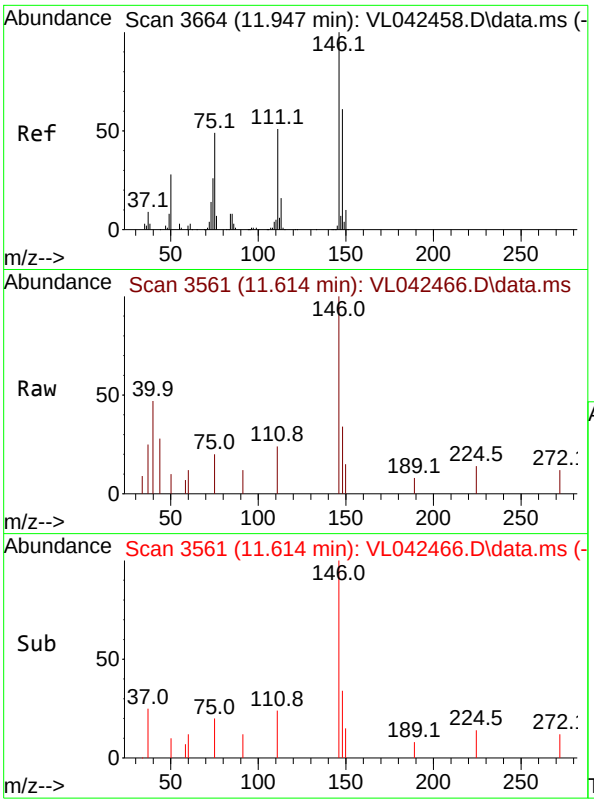


#76
1,4-Dichlorobenzene
Concen: 0.006 ppbv
RT: 11.669 min Scan# 3578
Delta R.T. -0.003 min
Lab File: VL042466.D
Acq: 01 May 2025 14:10

Tgt Ion:146 Resp: 97

Ion	Ratio	Lower	Upper
146	100		
111	285.6	24.4	73.2#
148	273.2	32.0	96.2#



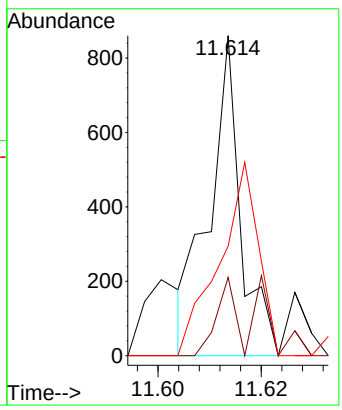


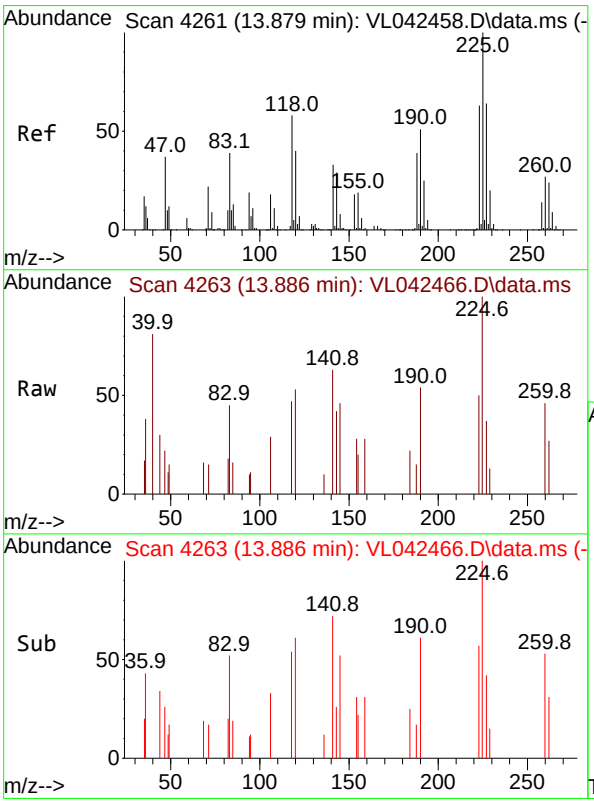
#77
1,2-Dichlorobenzene
Concen: 0.023 ppbv
RT: 11.614 min Scan# 3
Delta R.T. -0.333 min
Lab File: VL042466.D
Acq: 01 May 2025 14:10

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion:146 Resp: 362

Ion	Ratio	Lower	Upper
146	100		
111	29.8	26.5	79.5
148	83.4	31.5	94.5

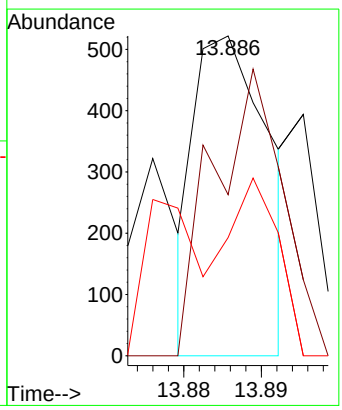


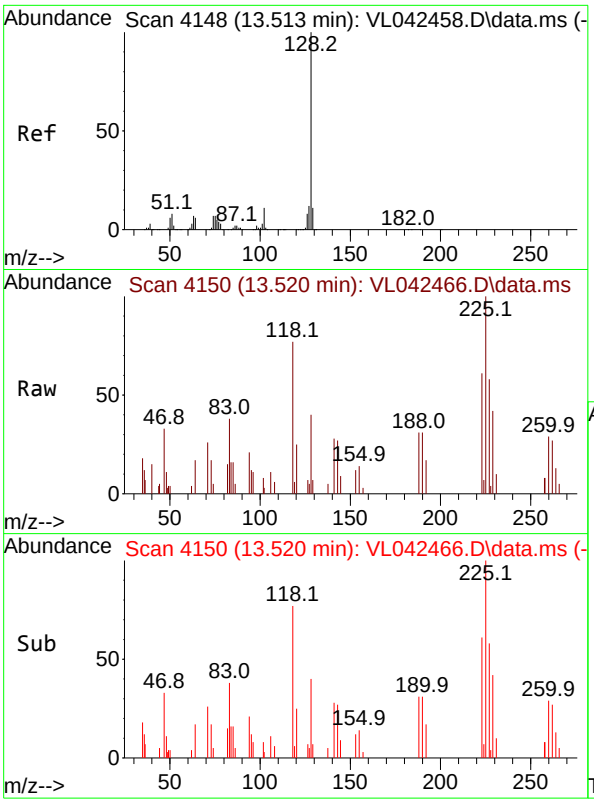


#78
Hexachloro-1,3-Butadiene
Concen: 0.022 ppbv
RT: 13.886 min Scan# 4263
Delta R.T. 0.007 min
Lab File: VL042466.D
Acq: 01 May 2025 14:10

Tgt Ion:225 Resp: 344

Ion	Ratio	Lower	Upper
225	100		
223	0.0	50.2	75.4#
227	0.0	51.2	76.8#



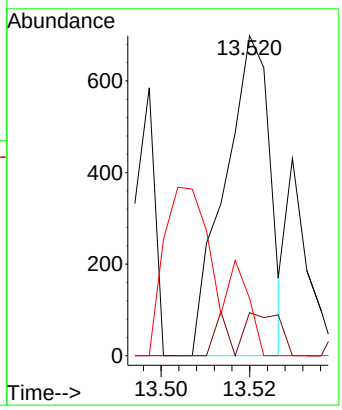


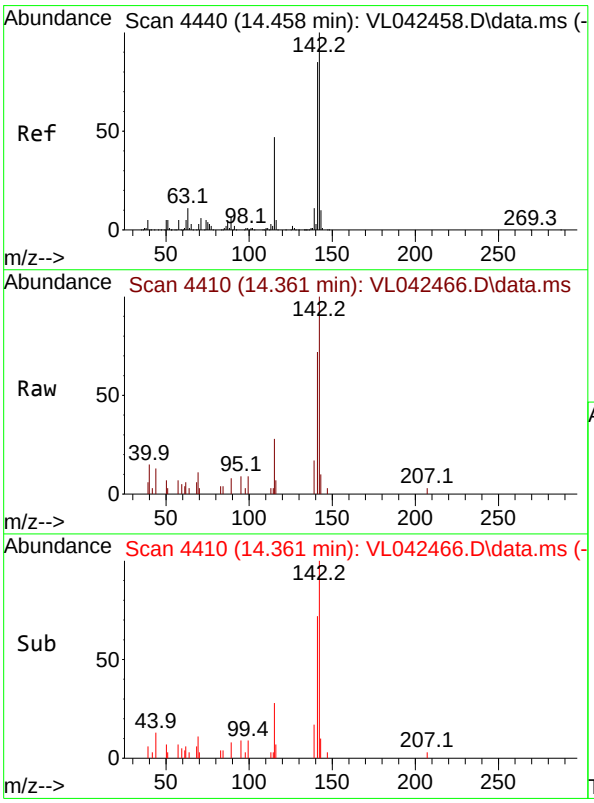
#79
Naphthalene
Concen: 0.021 ppbv
RT: 13.520 min Scan# 4
Delta R.T. 0.007 min
Lab File: VL042466.D
Acq: 01 May 2025 14:10

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion:128 Resp: 497

Ion	Ratio	Lower	Upper
128	100		
127	13.4	9.7	14.5
129	17.9	8.6	13.0#

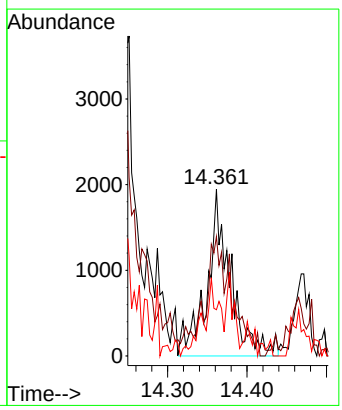


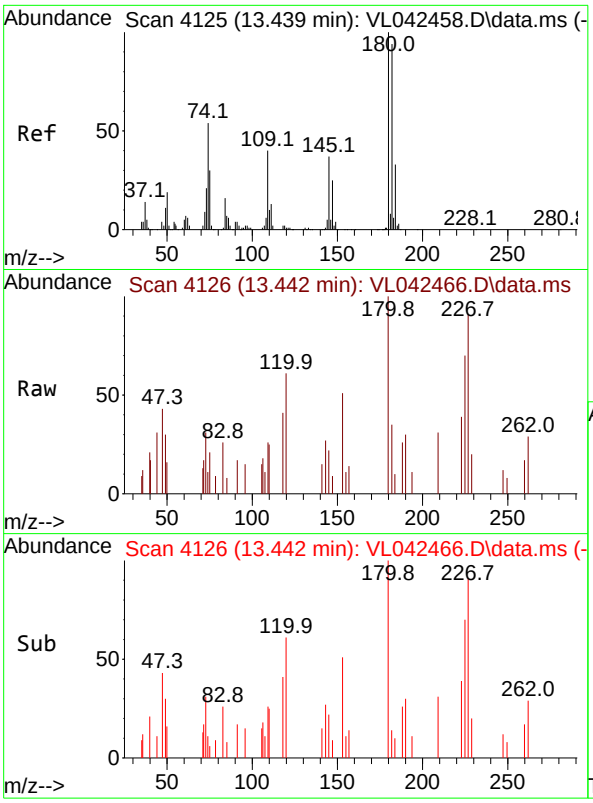


#80
Naphthalene,2-methyl-
Concen: 0.224 ppbv
RT: 14.361 min Scan# 4410
Delta R.T. -0.097 min
Lab File: VL042466.D
Acq: 01 May 2025 14:10

Tgt Ion:142 Resp: 3971

Ion	Ratio	Lower	Upper
142	100		
141	84.9	67.4	101.0
115	48.7	36.9	55.3



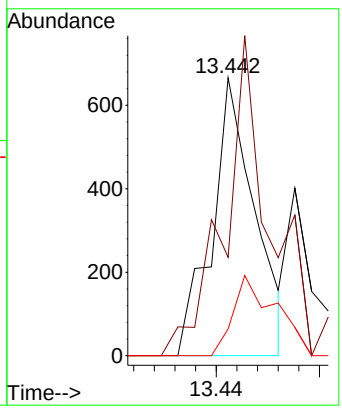


#81
1,2,4-Trichlorobenzene
Concen: 0.030 ppbv
RT: 13.442 min Scan# 4
Delta R.T. 0.004 min
Lab File: VL042466.D
Acq: 01 May 2025 14:10

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion:180 Resp: 384

Ion	Ratio	Lower	Upper
180	100		
182	126.8	74.6	111.8#
184	28.6	24.9	37.3



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050125\
Data File : VL042467.D
Acq On : 01 May 2025 15:46
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
ICVVL050125

Quant Time: May 02 03:48:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri May 02 03:16:31 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.790	49	63539	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	183679	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	156982	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.380	95	150522	10.342	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 103.400%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	108782	10.346	ppbv	97
3) Chlorodifluoromethane	1.476	51	110290	9.921	ppbv	98
4) Chloromethane	1.534	50	43950	10.001	ppbv	96
5) Vinyl Chloride	1.580	62	41181	9.307	ppbv	99
6) Bromomethane	1.667	94	21021	10.055	ppbv	91
7) Chloroethane	1.706	64	16630	10.179	ppbv	90
8) Dichlorotetrafluoroethane	1.554	85	89345	10.307	ppbv	99
9) Propene	1.486	41	36920	10.153	ppbv	97
10) Heptane	4.985	43	94631	10.033	ppbv	95
11) Trichlorofluoromethane	1.878	101	100713	10.380	ppbv	99
12) 1,1,2-Trichlorotrifluo...	2.140	101	81143	10.474	ppbv	99
13) Ethanol	1.722	45	5736	7.773	ppbv	99
14) Bromoethene	1.780	108	30094	10.522	ppbv	97
15) Acetone	1.835	43	95460	8.230	ppbv	98
16) 1,3-Butadiene	1.609	39	49566	9.689	ppbv	100
17) tert-Butyl alcohol	2.043	59	102047	9.986	ppbv	100
18) 1,1-Dichloroethene	2.033	96	35784	9.892	ppbv	98
19) Isopropyl Alcohol	1.887	45	60977	9.499	ppbv	99
20) Methylene Chloride	2.062	84	31212	8.951	ppbv	94
21) Allyl Chloride	2.098	41	73365	9.835	ppbv	94
22) trans-1,2-Dichloroethene	2.340	96	42922	10.160	ppbv	96
23) Vinyl Acetate	2.463	43	113131	10.220	ppbv #	98
24) 1,1-Dichloroethane	2.408	63	89117	10.340	ppbv	97
25) Ethyl Acetate	2.839	43	186185	10.025	ppbv	99
26) Hexane	2.826	57	83132	10.275	ppbv	96
27) Carbon Disulfide	2.149	76	100196	10.612	ppbv	96
28) Methyl tert-Butyl Ether	2.441	73	48326	9.942	ppbv	100
29) Chloroform	2.852	83	152381	10.050	ppbv	96
30) Cyclohexane	3.858	84	70581	10.434	ppbv	98
31) cis-1,2-Dichloroethene	2.722	61	95793	10.148	ppbv	96
32) 1,1,1-Trichloroethane	3.370	97	161465	9.816	ppbv	99
34) 2-Butanone	2.560	43	125883	9.475	ppbv	97
35) Carbon Tetrachloride	3.764	117	166814	9.998	ppbv	97
36) Benzene	3.658	78	171384	9.888	ppbv	98
37) 1,2-Dichloroethane	3.221	62	130063	9.736	ppbv	100
38) Trichloroethene	4.551	130	65940	9.976	ppbv	96
39) 1,2-Dichloropropane	4.315	63	60010	9.248	ppbv	95
40) 1,4-Dioxane	4.583	88	26978	8.878	ppbv #	100
41) Tetrahydrofuran	3.059	42	59604	9.440	ppbv	98
42) Bromodichloromethane	4.489	83	163210	9.999	ppbv	95
43) Methyl Methacrylate	4.881	69	67516	10.438	ppbv	99
44) 2,2,4-Trimethylpentane	4.642	57	277217	9.867	ppbv	100
45) t-1,3-Dichloropropene	6.422	75	45216	5.328	ppbv	93

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050125\
Data File : VL042467.D
Acq On : 01 May 2025 15:46
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
ICVVL050125

Quant Time: May 02 03:48:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri May 02 03:16:31 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) cis-1,3-Dichloropropene	5.609	75	104665	10.378	ppbv		97
47) 1,1,2-Trichloroethane	6.584	97	67821	9.530	ppbv		95
48) Dibromochloromethane	7.393	129	121381	10.103	ppbv		97
49) Bromoform	9.487	173	102150	10.138	ppbv		100
50) 4-Methyl-2-Pentanone	5.752	43	159280	9.478	ppbv		99
51) 2-Hexanone	7.438	43	126396	9.407	ppbv	#	98
52) Tetrachloroethene	8.228	164	58272	8.832	ppbv		96
53) Toluene	6.940	91	191922	10.461	ppbv		99
54) 1,2-Dibromoethane	7.658	107	105149	9.664	ppbv		95
56) 1,1,1,2-Tetrachloroethane	8.927	131	92337	9.959	ppbv		97
57) Chlorobenzene	8.927	112	148759	9.431	ppbv		92
58) Ethyl Benzene	9.357	91	280660	10.698	ppbv		99
59) m/p-Xylene	9.535	91	249958	11.365	ppbv	#	42
60) o-Xylene	9.966	91	238347	10.824	ppbv		97
61) Styrene	9.872	104	91128	11.090	ppbv		97
62) Isopropylbenzene	10.542	105	337992	10.641	ppbv		99
63) 1,1,2,2-Tetrachloroethane	9.966	83	140306	9.242	ppbv		100
64) n-propylbenzene	10.992	120	79983	10.303	ppbv		99
65) tert-Butylbenzene	11.536	119	302506	10.672	ppbv		99
66) Benzyl Chloride	11.617	91	34933	10.663	ppbv		97
67) sec-Butylbenzene	11.769	105	425444	10.562	ppbv		99
69) p-Isopropyltoluene	11.927	119	363563	10.712	ppbv		98
70) n-Butylbenzene	12.283	91	371369	10.585	ppbv		99
71) 2-Chlorotoluene	10.905	91	264063	10.599	ppbv		99
72) 4-Ethyltoluene	11.128	105	287375	11.069	ppbv		99
73) 1,3,5-Trimethylbenzene	11.206	105	247128	10.823	ppbv		93
74) 1,2,4-Trimethylbenzene	11.539	105	278306	10.074	ppbv		98
75) 1,3-Dichlorobenzene	11.610	146	150026	9.754	ppbv		99
76) 1,4-Dichlorobenzene	11.675	146	151740	10.425	ppbv		97
77) 1,2-Dichlorobenzene	11.950	146	146314	9.719	ppbv		99
78) Hexachloro-1,3-Butadiene	13.882	225	133688	8.893	ppbv		99
79) Naphthalene	13.516	128	251318	10.806	ppbv		98
80) Naphthalene,2-methyl-	14.458	142	198604	11.489	ppbv		99
81) 1,2,4-Trichlorobenzene	13.442	180	129406	10.433	ppbv		98

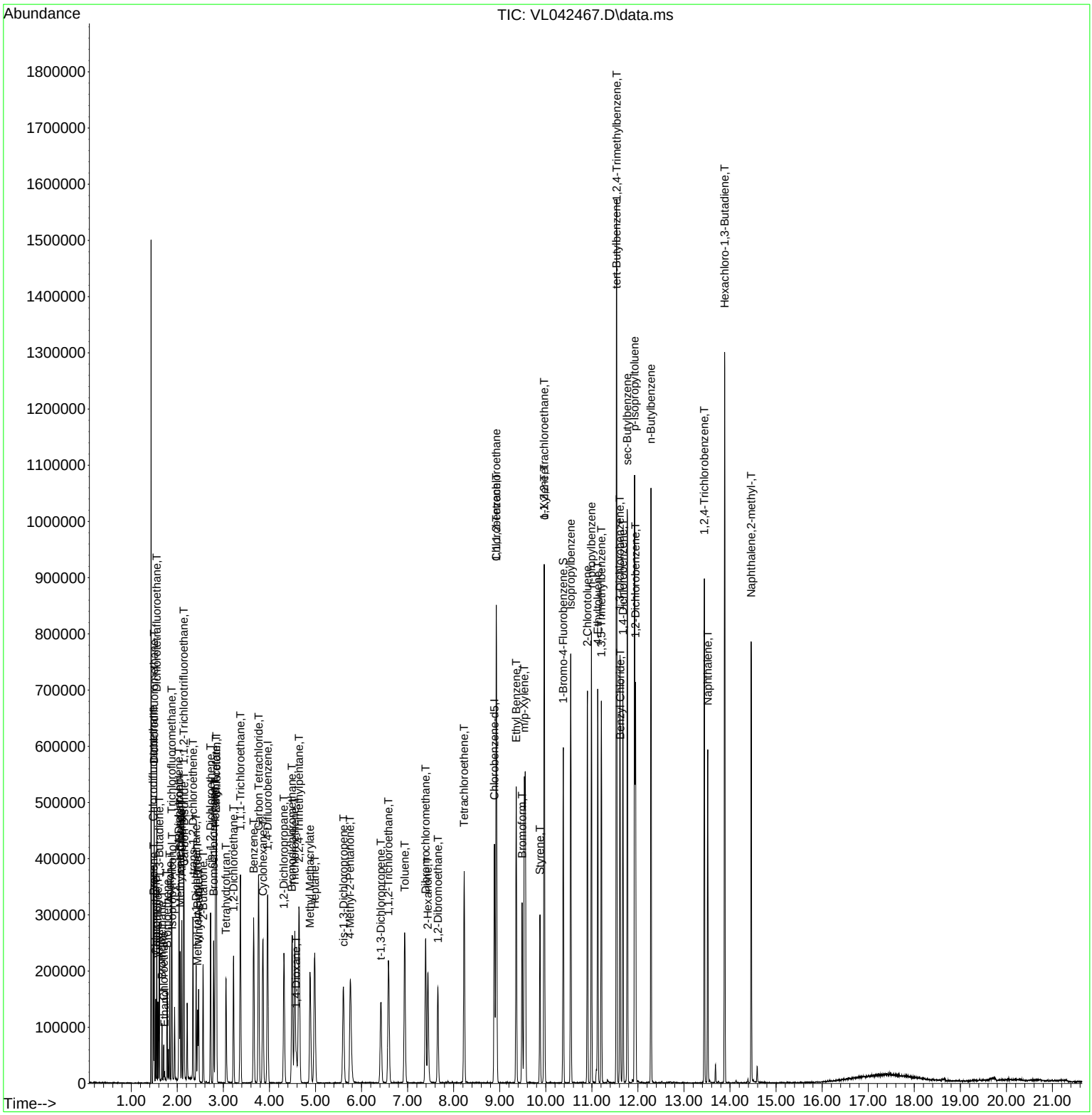
(#) = qualifier out of range (m) = manual integration (+) = signals summed

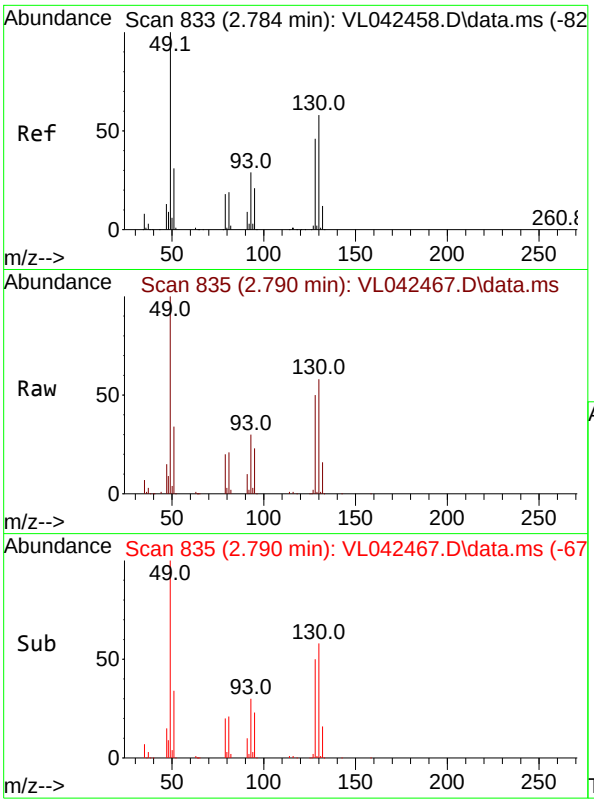
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050125\
Data File : VL042467.D
Acq On : 01 May 2025 15:46
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
ICVVL050125

Quant Time: May 02 03:48:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri May 02 03:16:31 2025
Response via : Initial Calibration



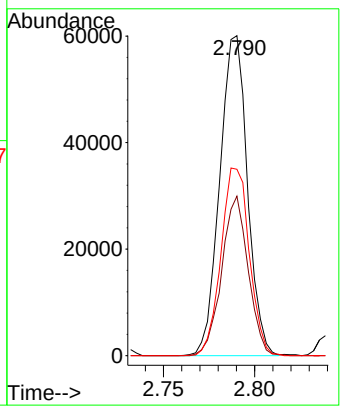


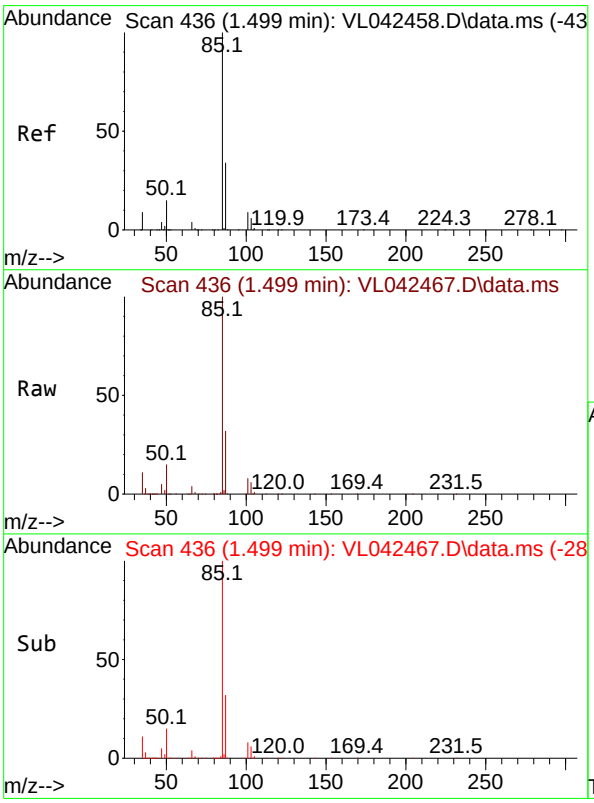
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 8
Delta R.T. 0.006 min
Lab File: VL042467.D
Acq: 01 May 2025 15:46

Instrument :
MSVOA_L
ClientSampleId :
ICVVL050125

Tgt Ion: 49 Resp: 63539

Ion	Ratio	Lower	Upper
49	100		
128	47.6	23.3	69.9
130	60.0	29.5	88.6

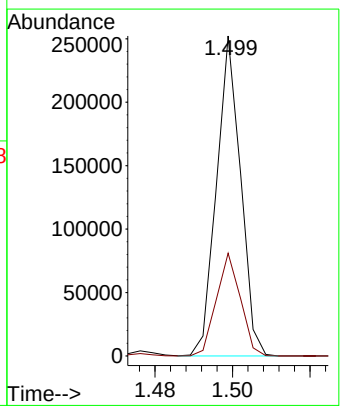


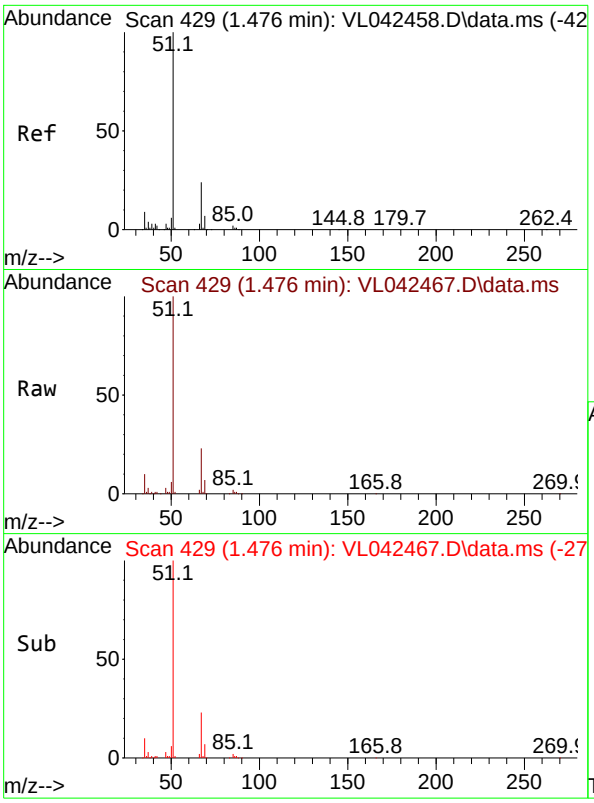


#2
Dichlorodifluoromethane
Concen: 10.346 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.000 min
Lab File: VL042467.D
Acq: 01 May 2025 15:46

Tgt Ion: 85 Resp: 108782

Ion	Ratio	Lower	Upper
85	100		
87	32.1	26.9	40.3



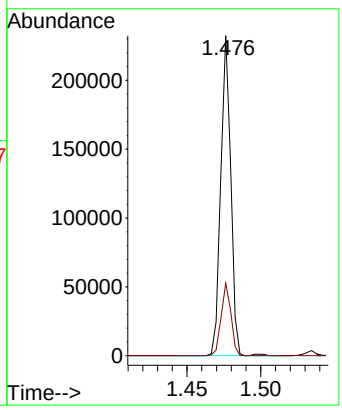


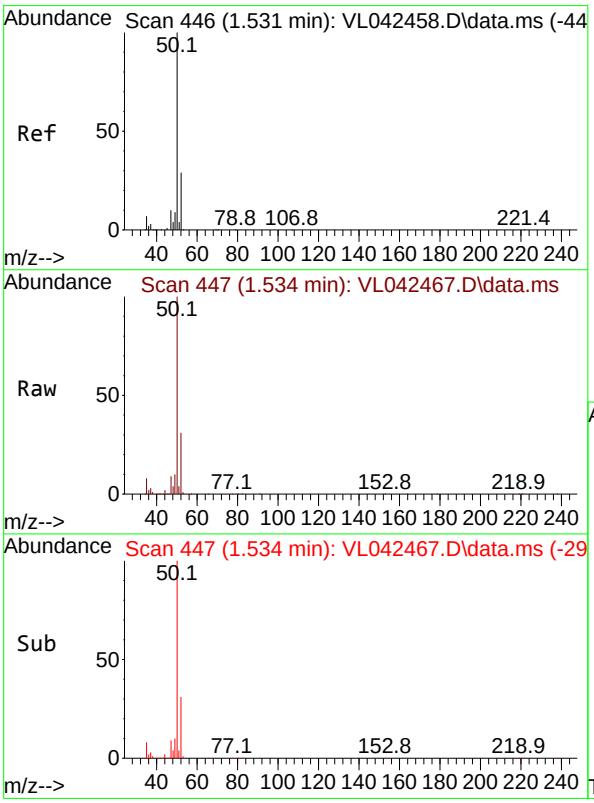
#3
Chlorodifluoromethane
Concen: 9.921 ppbv
RT: 1.476 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042467.D
Acq: 01 May 2025 15:46

Instrument :
MSVOA_L
ClientSampleId :
ICVVL050125

Tgt Ion: 51 Resp: 110290

Ion	Ratio	Lower	Upper
51	100		
67	22.1	18.4	27.6

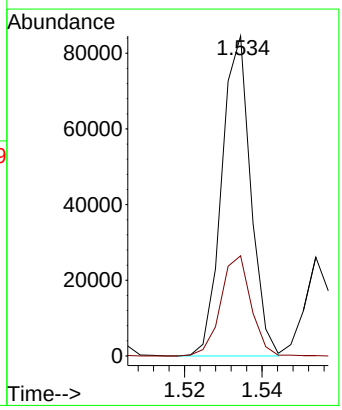


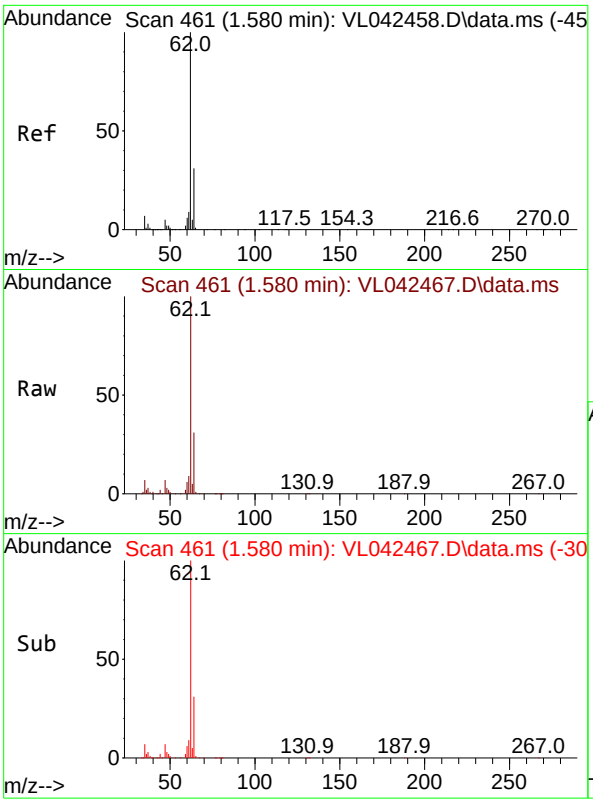


#4
Chloromethane
Concen: 10.001 ppbv
RT: 1.534 min Scan# 447
Delta R.T. 0.003 min
Lab File: VL042467.D
Acq: 01 May 2025 15:46

Tgt Ion: 50 Resp: 43950

Ion	Ratio	Lower	Upper
50	100		
52	31.3	23.5	35.3



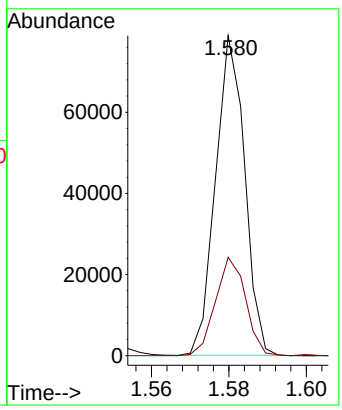


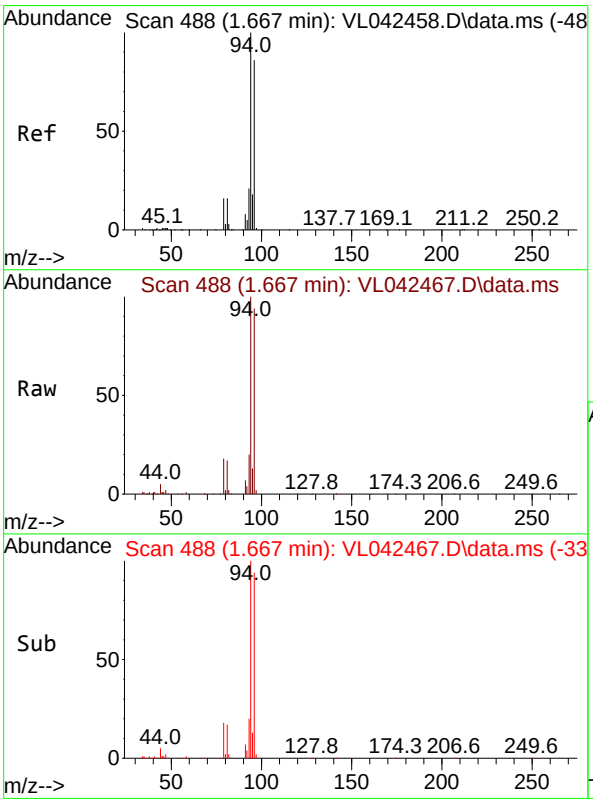
#5
Vinyl Chloride
Concen: 9.307 ppbv
RT: 1.580 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042467.D
Acq: 01 May 2025 15:46

Instrument :
MSVOA_L
ClientSampleId :
ICVVL050125

Tgt Ion: 62 Resp: 41181

Ion	Ratio	Lower	Upper
62	100		
64	30.7	24.9	37.3

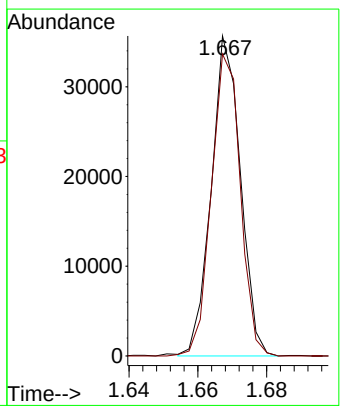


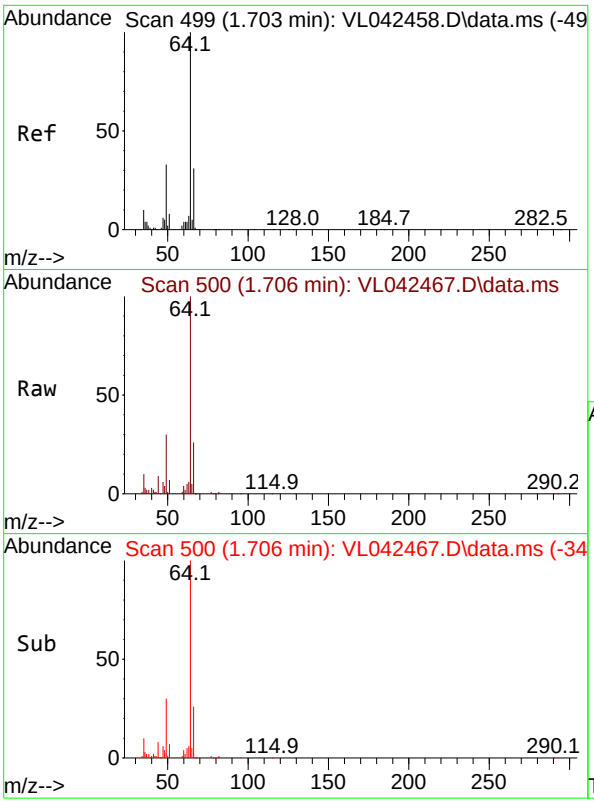


#6
Bromomethane
Concen: 10.055 ppbv
RT: 1.667 min Scan# 488
Delta R.T. 0.000 min
Lab File: VL042467.D
Acq: 01 May 2025 15:46

Tgt Ion: 94 Resp: 21021

Ion	Ratio	Lower	Upper
94	100		
96	94.3	68.8	103.2



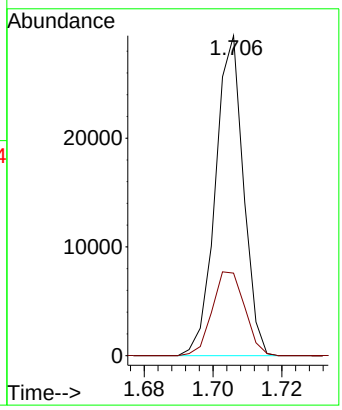


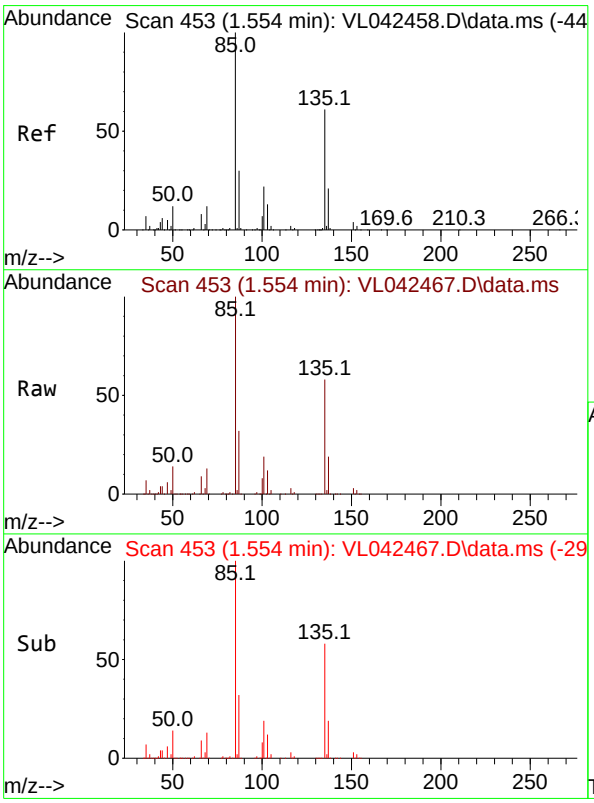
#7
Chloroethane
Concen: 10.179 ppbv
RT: 1.706 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042467.D
Acq: 01 May 2025 15:46

Instrument :
MSVOA_L
ClientSampleId :
ICVVL050125

Tgt Ion: 64 Resp: 16630

Ion	Ratio	Lower	Upper
64	100		
66	25.8	25.0	37.4

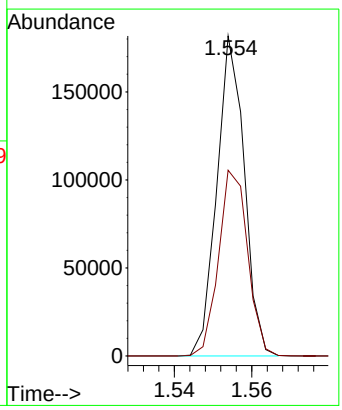


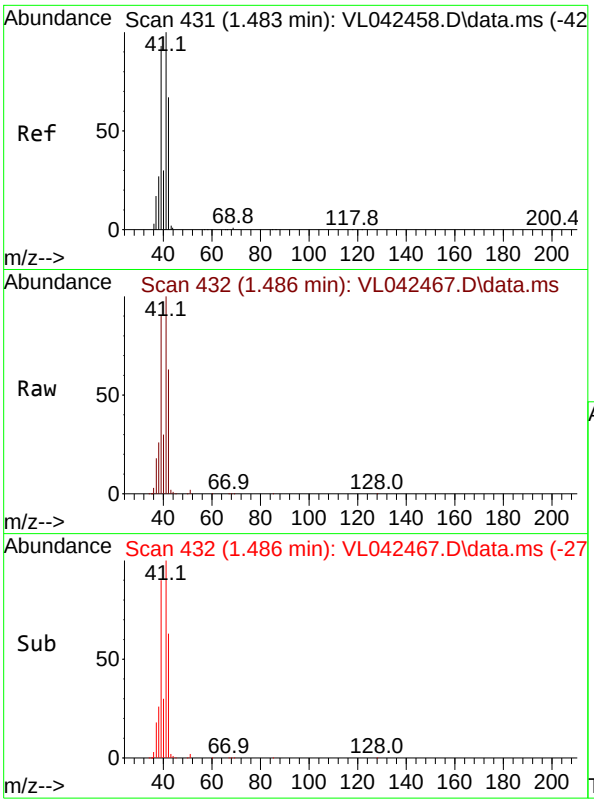


#8
Dichlorotetrafluoroethane
Concen: 10.307 ppbv
RT: 1.554 min Scan# 453
Delta R.T. 0.000 min
Lab File: VL042467.D
Acq: 01 May 2025 15:46

Tgt Ion: 85 Resp: 89345

Ion	Ratio	Lower	Upper
85	100		
135	61.7	49.8	74.8



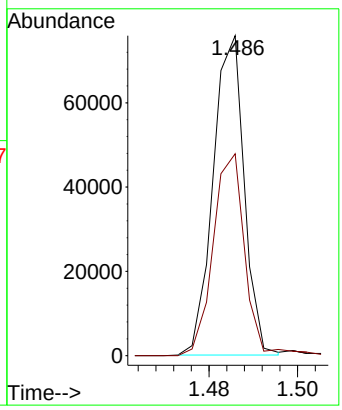


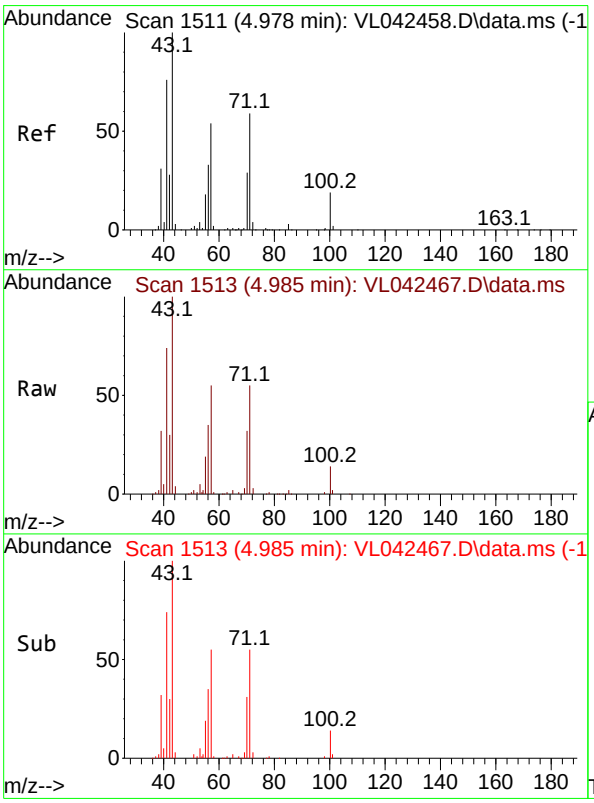
#9
Propene
Concen: 10.153 ppbv
RT: 1.486 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL042467.D
Acq: 01 May 2025 15:46

Instrument :
MSVOA_L
ClientSampleId :
ICVVL050125

Tgt Ion: 41 Resp: 36920

Ion	Ratio	Lower	Upper
41	100		
42	65.1	54.3	81.5

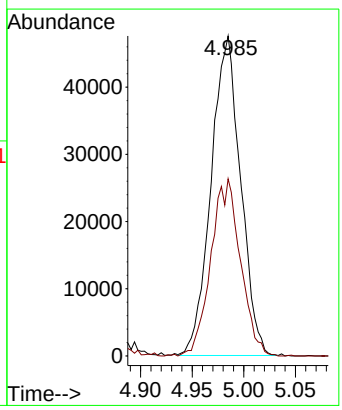


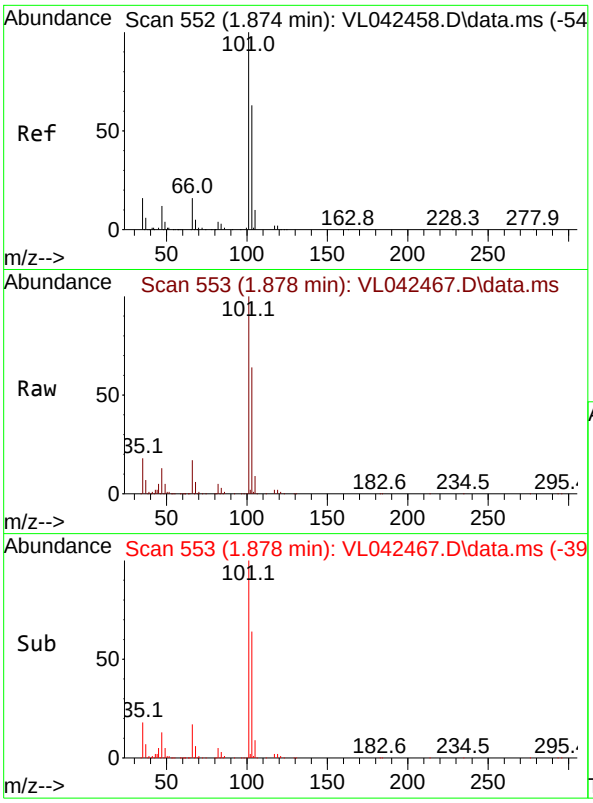


#10
Heptane
Concen: 10.033 ppbv
RT: 4.985 min Scan# 1513
Delta R.T. 0.007 min
Lab File: VL042467.D
Acq: 01 May 2025 15:46

Tgt Ion: 43 Resp: 94631

Ion	Ratio	Lower	Upper
43	100		
57	55.7	41.8	62.8



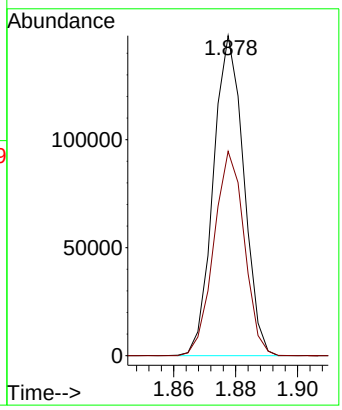


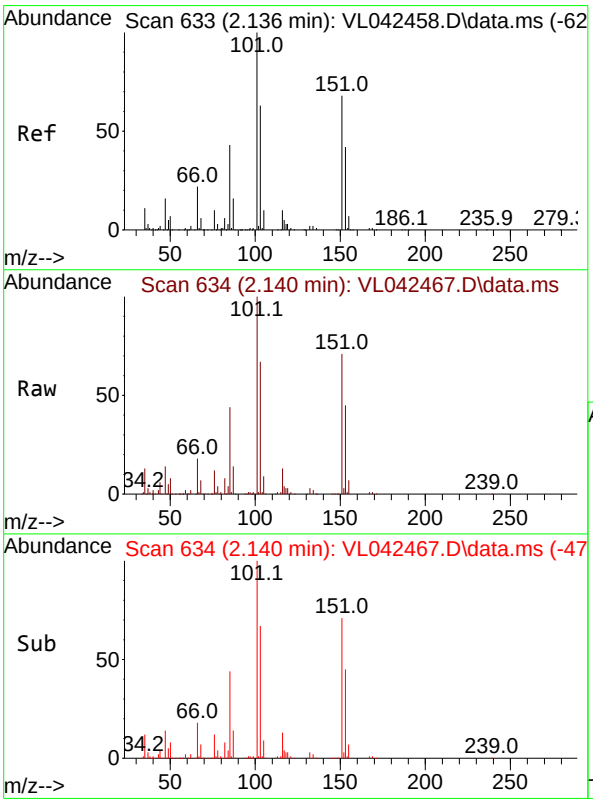
#11
Trichlorofluoromethane
Concen: 10.380 ppbv
RT: 1.878 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042467.D
Acq: 01 May 2025 15:46

Instrument :
MSVOA_L
ClientSampleId :
ICVVL050125

Tgt Ion:101 Resp: 100713

Ion	Ratio	Lower	Upper
101	100		
103	63.9	50.6	76.0

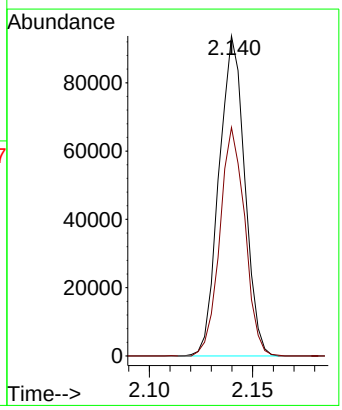


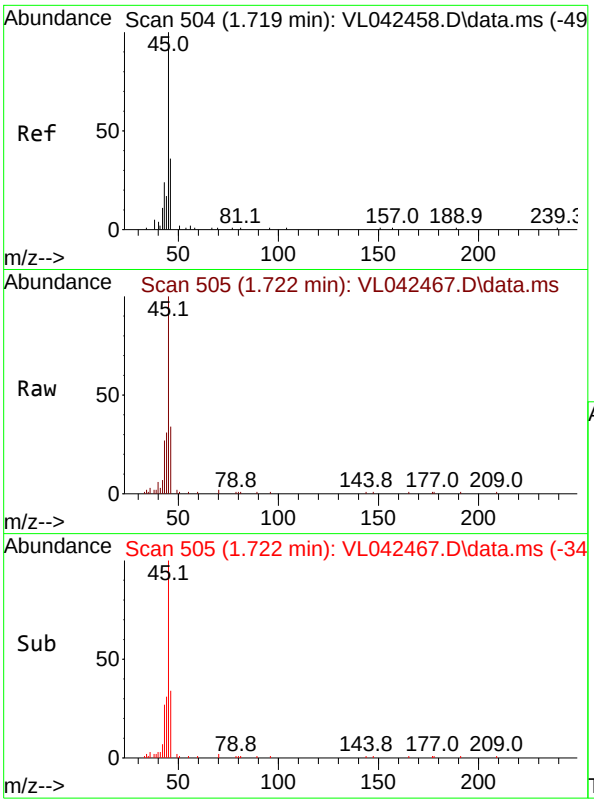


#12
1,1,2-Trichlorotrifluoroethane
Concen: 10.474 ppbv
RT: 2.140 min Scan# 634
Delta R.T. 0.003 min
Lab File: VL042467.D
Acq: 01 May 2025 15:46

Tgt Ion:101 Resp: 81143

Ion	Ratio	Lower	Upper
101	100		
151	69.5	54.6	82.0



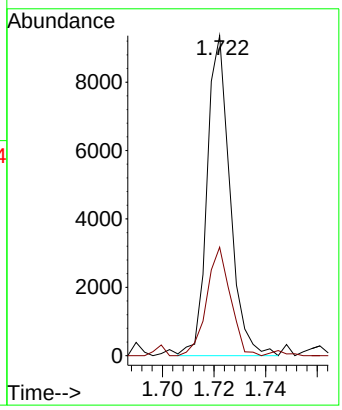


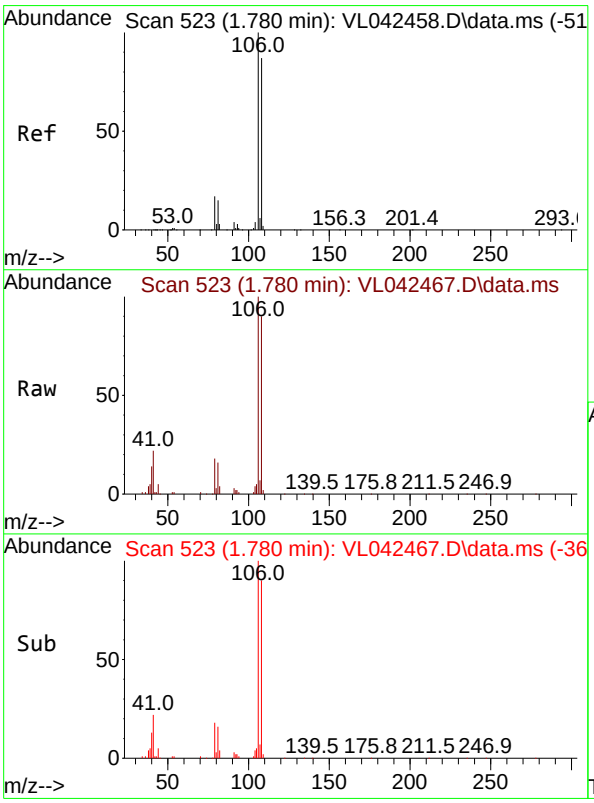
#13
Ethanol
Concen: 7.773 ppbv
RT: 1.722 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042467.D
Acq: 01 May 2025 15:46

Instrument :
MSVOA_L
ClientSampleId :
ICVVL050125

Tgt Ion: 45 Resp: 5736

Ion	Ratio	Lower	Upper
45	100		
46	37.8	15.3	61.1

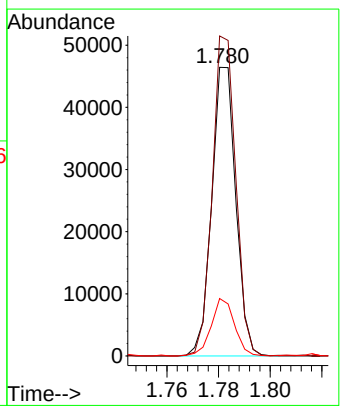


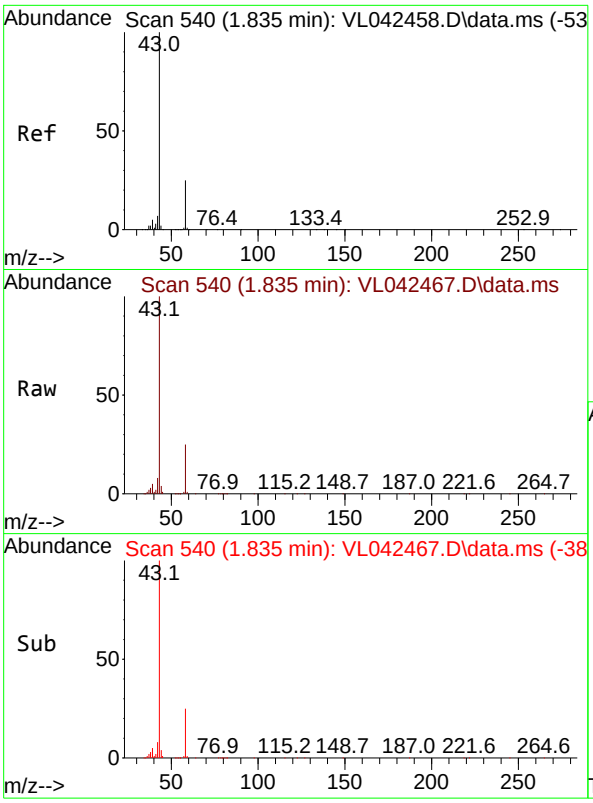


#14
Bromoethene
Concen: 10.522 ppbv
RT: 1.780 min Scan# 523
Delta R.T. 0.000 min
Lab File: VL042467.D
Acq: 01 May 2025 15:46

Tgt Ion:108 Resp: 30094

Ion	Ratio	Lower	Upper
108	100		
106	108.0	88.8	133.2
79	19.8	17.1	25.7



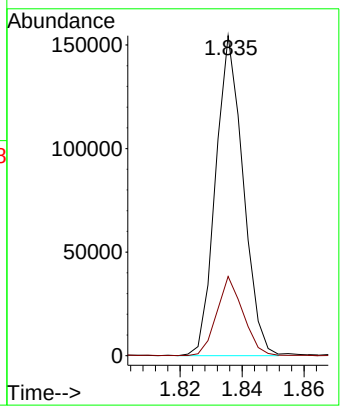


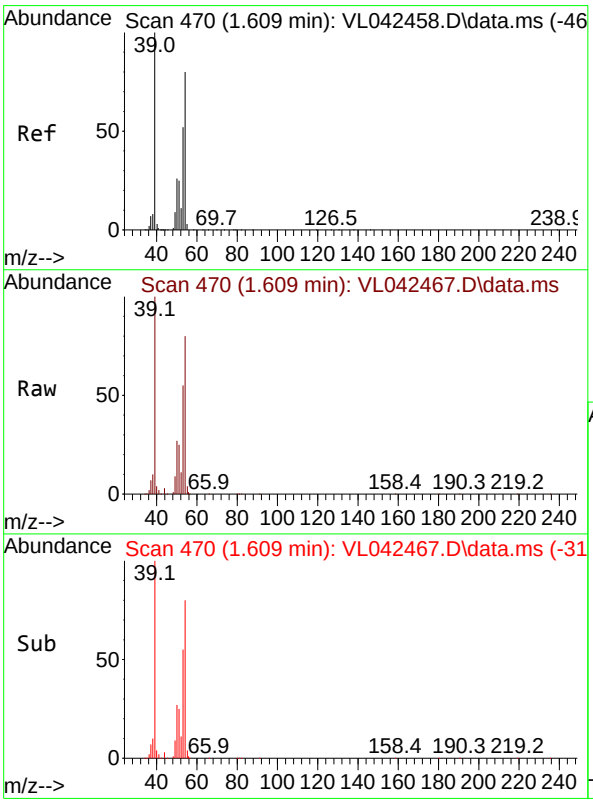
#15
Acetone
Concen: 8.230 ppbv
RT: 1.835 min Scan# 54
Delta R.T. 0.000 min
Lab File: VL042467.D
Acq: 01 May 2025 15:46

Instrument :
MSVOA_L
ClientSampleId :
ICVVL050125

Tgt Ion: 43 Resp: 95460

Ion	Ratio	Lower	Upper
43	100		
58	23.9	19.8	29.8

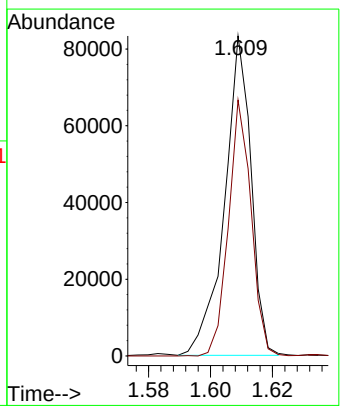


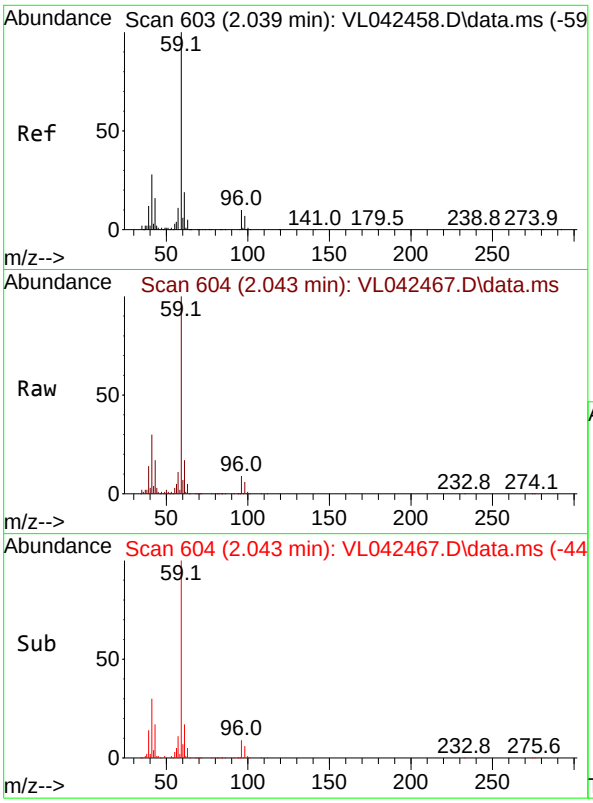


#16
1,3-Butadiene
Concen: 9.689 ppbv
RT: 1.609 min Scan# 470
Delta R.T. 0.000 min
Lab File: VL042467.D
Acq: 01 May 2025 15:46

Tgt Ion: 39 Resp: 49566

Ion	Ratio	Lower	Upper
39	100		
54	68.7	55.2	82.8



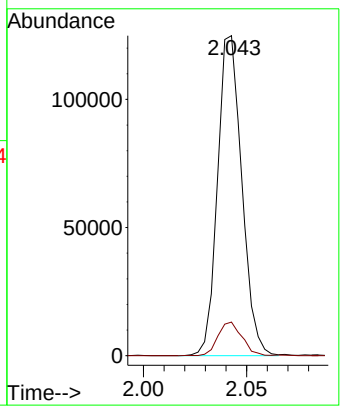


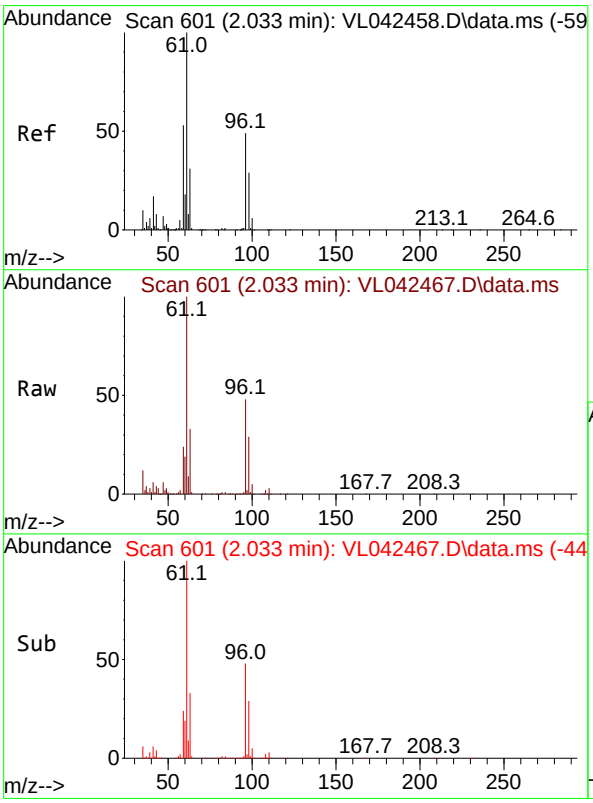
#17
tert-Butyl alcohol
Concen: 9.986 ppbv
RT: 2.043 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL042467.D
Acq: 01 May 2025 15:46

Instrument :
MSVOA_L
ClientSampleId :
ICVVL050125

Tgt Ion: 59 Resp: 102047

Ion	Ratio	Lower	Upper
59	100		
57	10.6	8.3	12.5

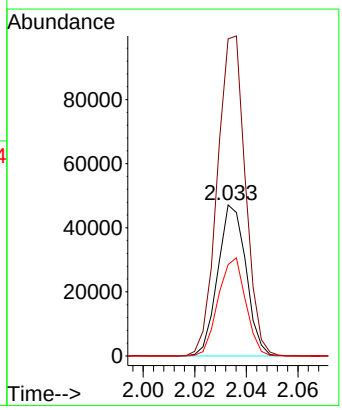


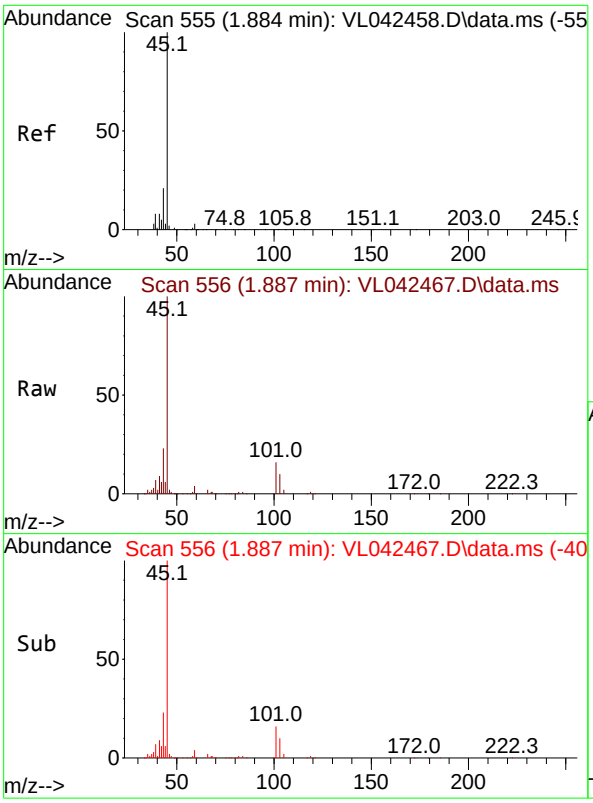


#18
1,1-Dichloroethene
Concen: 9.892 ppbv
RT: 2.033 min Scan# 601
Delta R.T. 0.000 min
Lab File: VL042467.D
Acq: 01 May 2025 15:46

Tgt Ion: 96 Resp: 35784

Ion	Ratio	Lower	Upper
96	100		
61	209.9	164.9	247.3
98	60.4	48.2	72.2



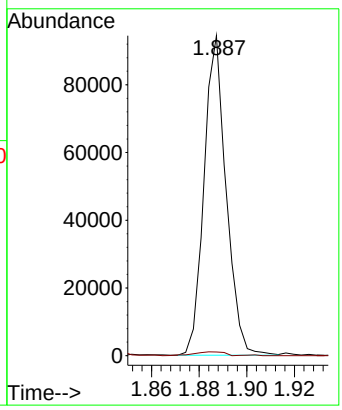


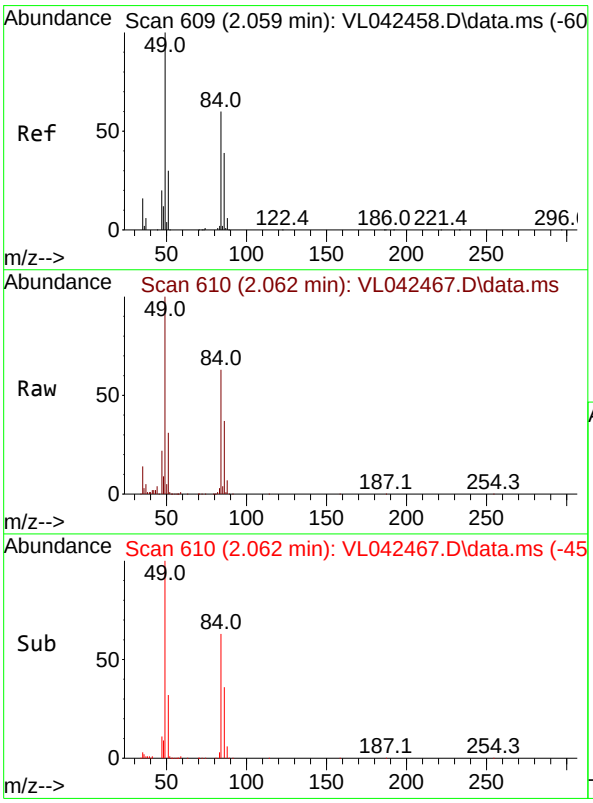
#19
Isopropyl Alcohol
Concen: 9.499 ppbv
RT: 1.887 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042467.D
Acq: 01 May 2025 15:46

Instrument :
MSVOA_L
ClientSampleId :
ICVVL050125

Tgt Ion: 45 Resp: 60977

Ion	Ratio	Lower	Upper
45	100		
58	1.8	1.6	2.4

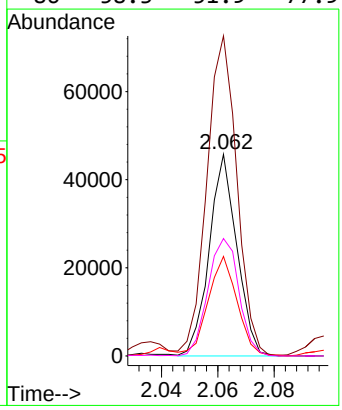


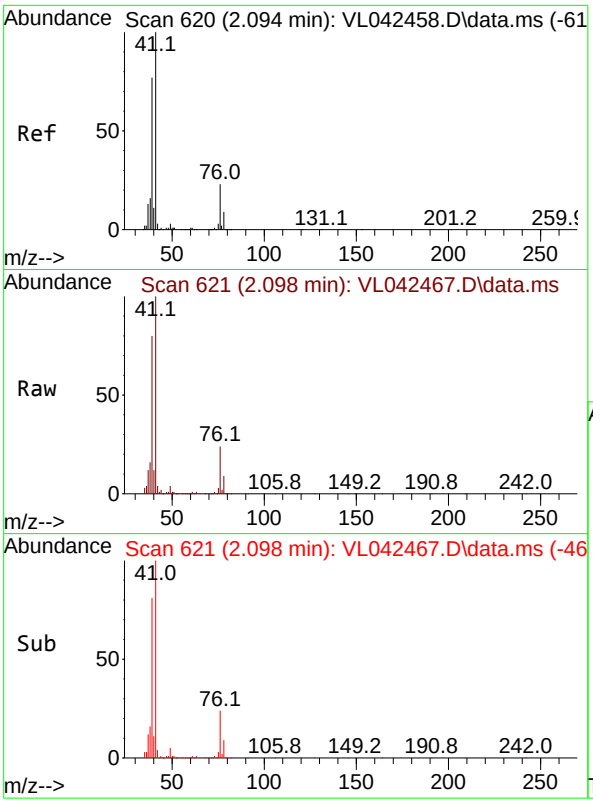


#20
Methylene Chloride
Concen: 8.951 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.003 min
Lab File: VL042467.D
Acq: 01 May 2025 15:46

Tgt Ion: 84 Resp: 31212

Ion	Ratio	Lower	Upper
84	100		
49	158.4	133.9	200.9
51	48.9	41.0	61.6
86	58.3	51.9	77.9



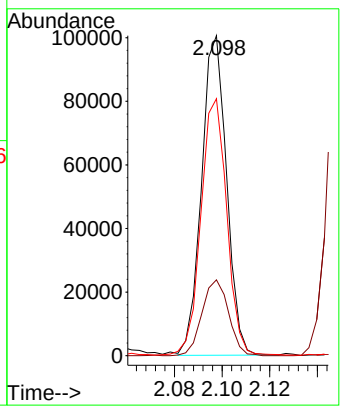


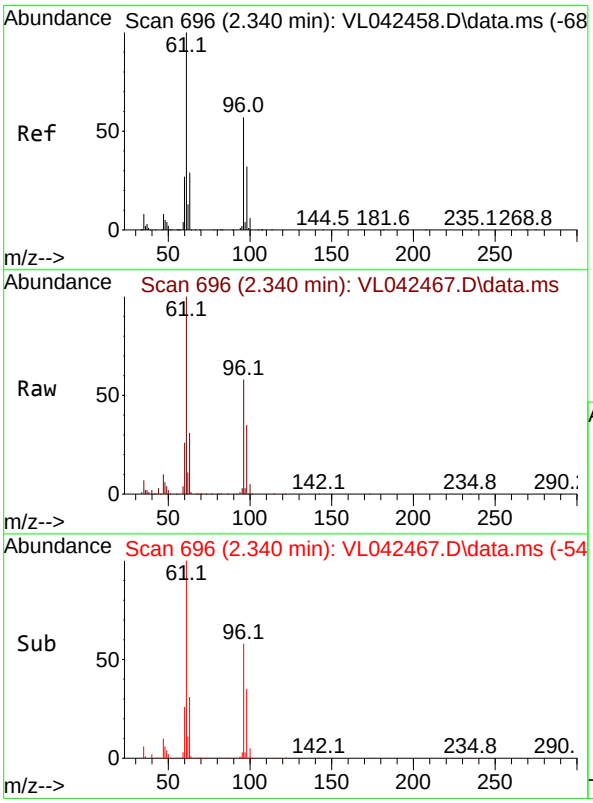
#21
Allyl Chloride
Concen: 9.835 ppbv
RT: 2.098 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL042467.D
Acq: 01 May 2025 15:46

Instrument :
MSVOA_L
ClientSampleId :
ICVVL050125

Tgt Ion: 41 Resp: 73365

Ion	Ratio	Lower	Upper
41	100		
76	25.2	19.6	29.4
39	82.8	61.0	91.4

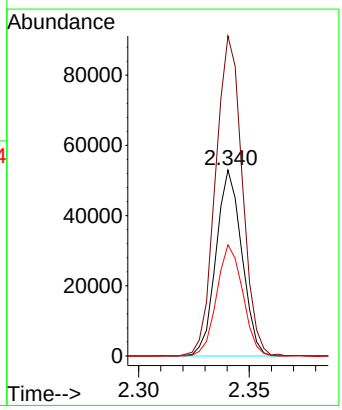


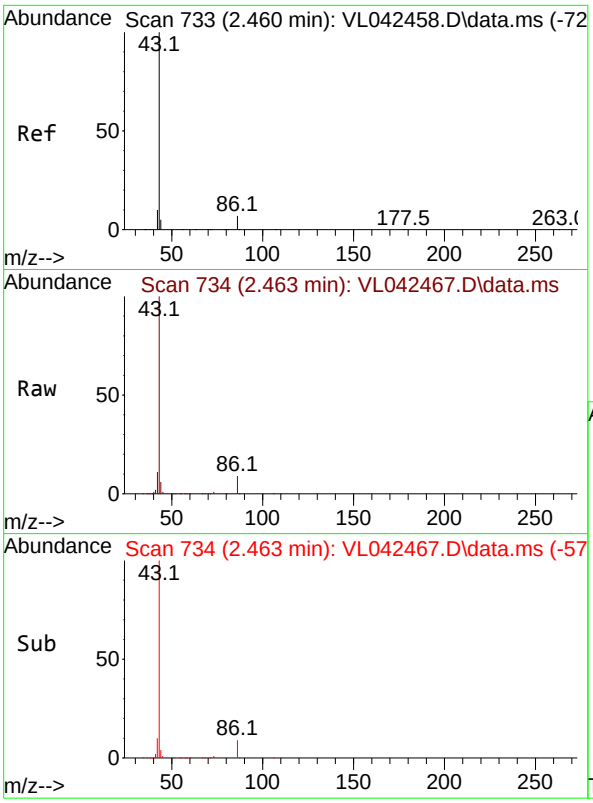


#22
trans-1,2-Dichloroethene
Concen: 10.160 ppbv
RT: 2.340 min Scan# 696
Delta R.T. 0.000 min
Lab File: VL042467.D
Acq: 01 May 2025 15:46

Tgt Ion: 96 Resp: 42922

Ion	Ratio	Lower	Upper
96	100		
61	172.0	141.8	212.6
98	59.7	45.0	67.6



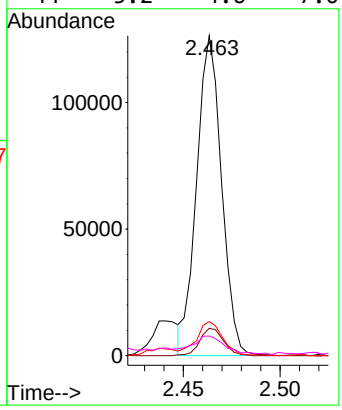


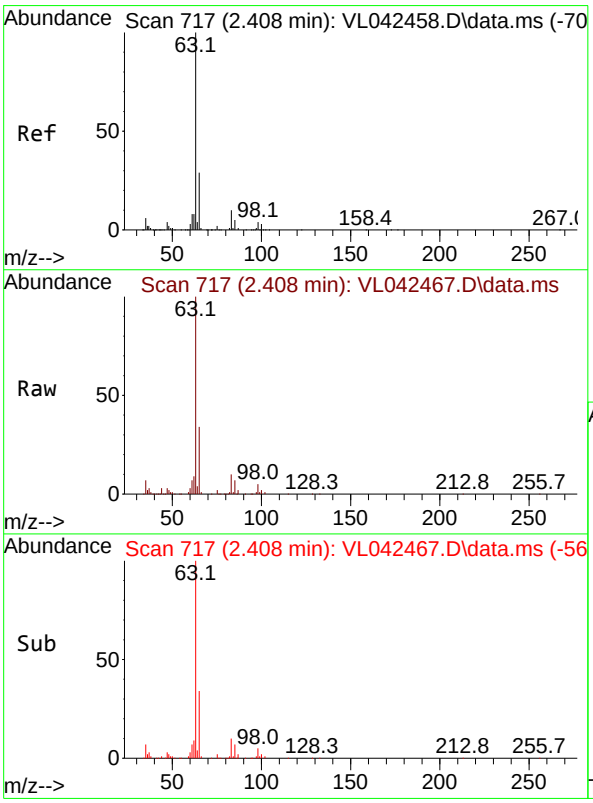
#23
Vinyl Acetate
Concen: 10.220 ppbv
RT: 2.463 min Scan# 7
Delta R.T. 0.003 min
Lab File: VL042467.D
Acq: 01 May 2025 15:46

Instrument :
MSVOA_L
ClientSampleId :
ICVVL050125

Tgt Ion: 43 Resp: 113131

Ion	Ratio	Lower	Upper
43	100		
86	8.6	5.5	8.3#
42	10.5	8.3	12.5
44	5.2	4.6	7.0

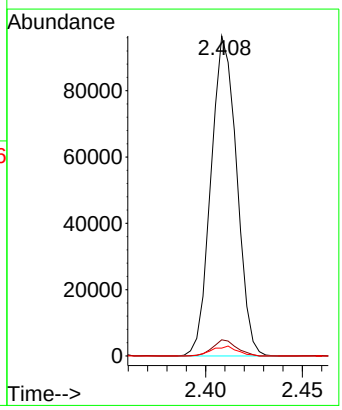


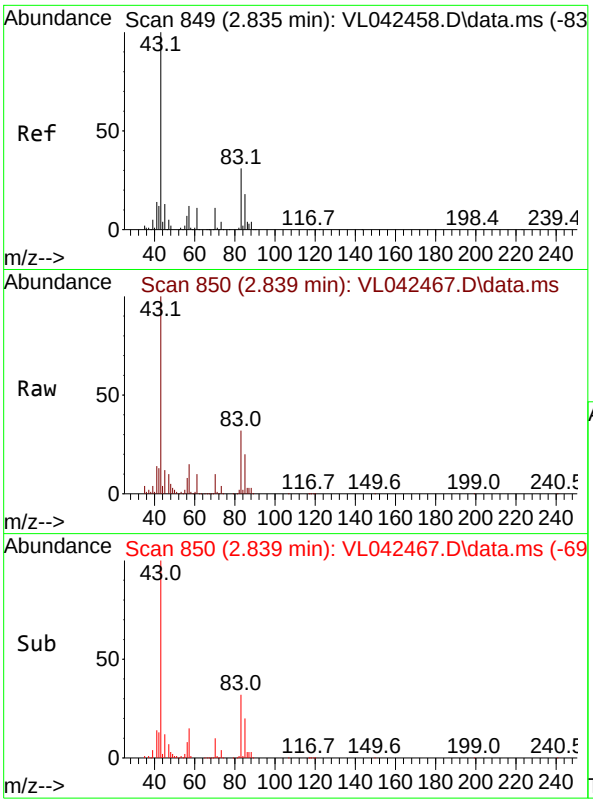


#24
1,1-Dichloroethane
Concen: 10.340 ppbv
RT: 2.408 min Scan# 717
Delta R.T. 0.000 min
Lab File: VL042467.D
Acq: 01 May 2025 15:46

Tgt Ion: 63 Resp: 89117

Ion	Ratio	Lower	Upper
63	100		
98	5.1	1.8	5.5
100	2.5	1.4	4.2



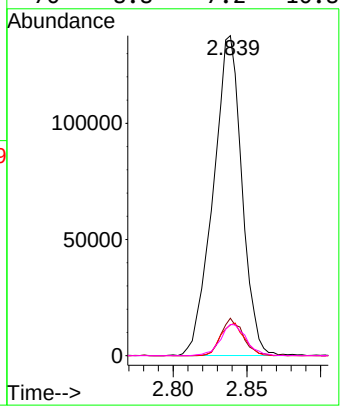


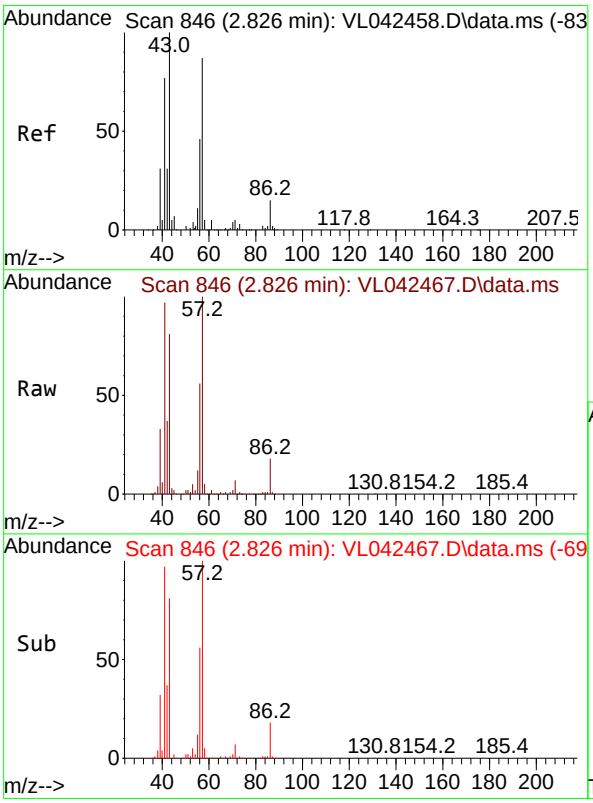
#25
Ethyl Acetate
Concen: 10.025 ppbv
RT: 2.839 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042467.D
Acq: 01 May 2025 15:46

Instrument :
MSVOA_L
ClientSampleId :
ICVVL050125

Tgt Ion: 43 Resp: 186185

Ion	Ratio	Lower	Upper
43	100		
45	9.1	7.8	11.6
61	8.5	7.2	10.8
70	8.8	7.2	10.8

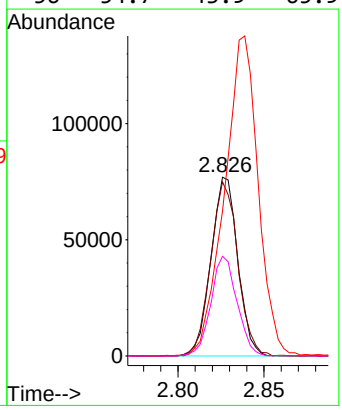


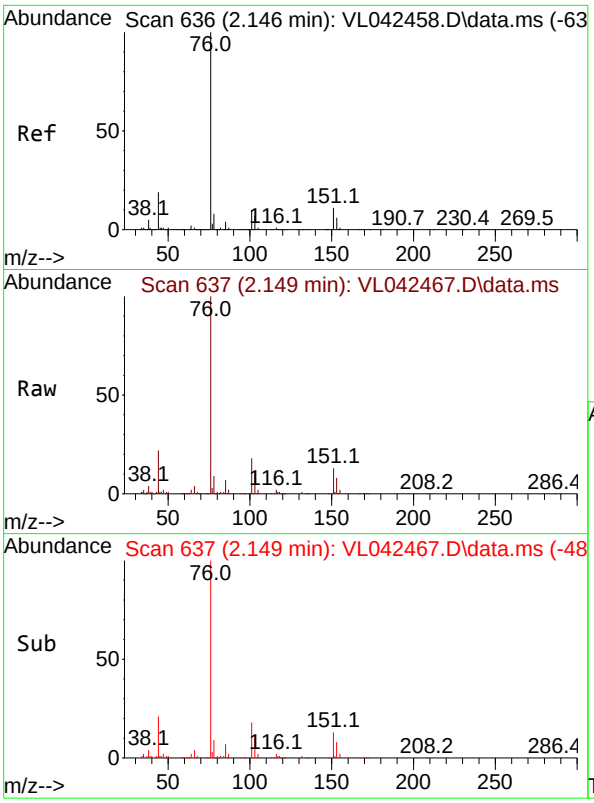


#26
Hexane
Concen: 10.275 ppbv
RT: 2.826 min Scan# 846
Delta R.T. 0.000 min
Lab File: VL042467.D
Acq: 01 May 2025 15:46

Tgt Ion: 57 Resp: 83132

Ion	Ratio	Lower	Upper
57	100		
41	99.4	77.8	116.8
43	225.3	187.0	280.6
56	54.7	43.9	65.9



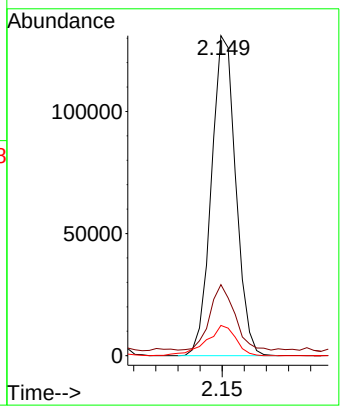


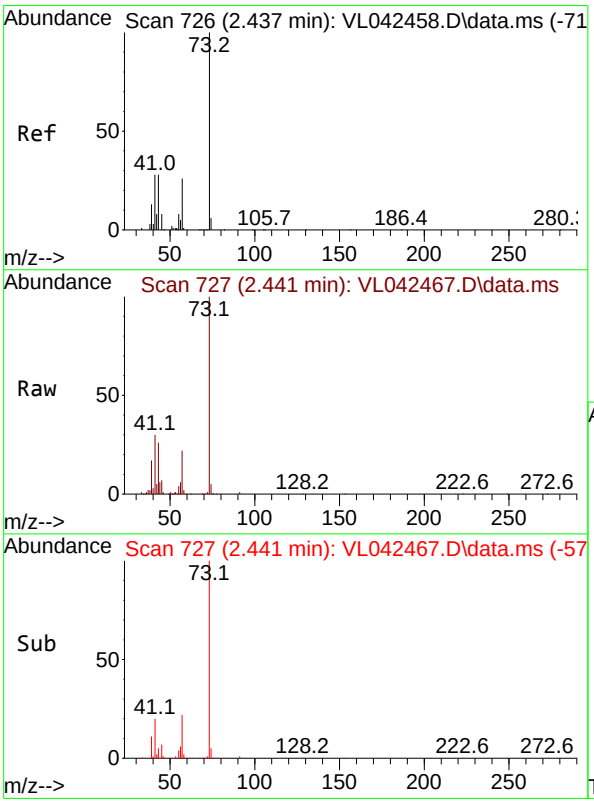
#27
Carbon Disulfide
Concen: 10.612 ppbv
RT: 2.149 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL042467.D
Acq: 01 May 2025 15:46

Instrument :
MSVOA_L
ClientSampleId :
ICVVL050125

Tgt Ion: 76 Resp: 100196

Ion	Ratio	Lower	Upper
76	100		
44	23.7	21.0	31.6
78	11.5	8.6	13.0

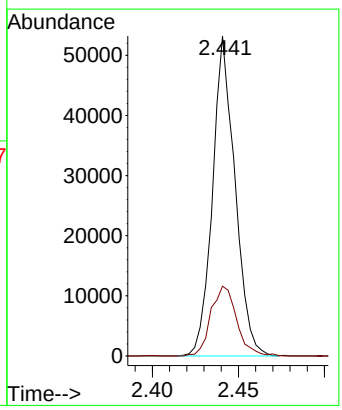


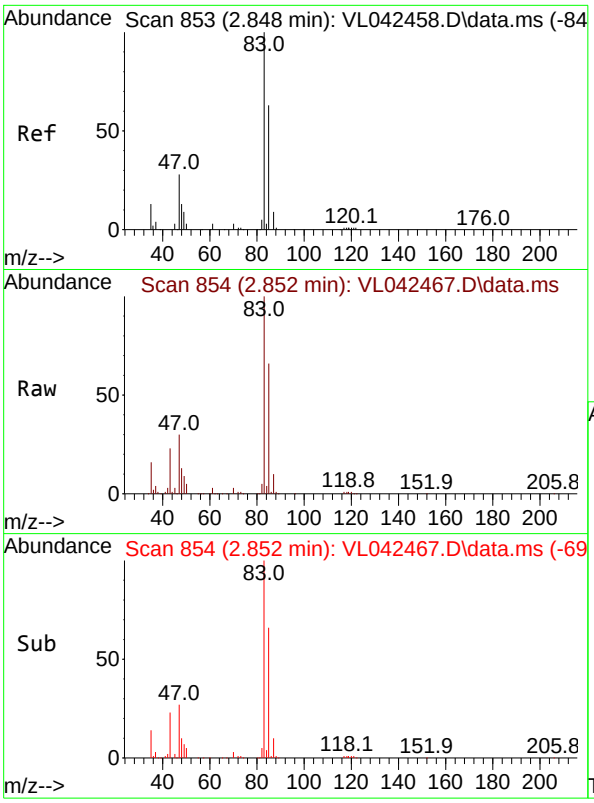


#28
Methyl tert-Butyl Ether
Concen: 9.942 ppbv
RT: 2.441 min Scan# 727
Delta R.T. 0.003 min
Lab File: VL042467.D
Acq: 01 May 2025 15:46

Tgt Ion: 73 Resp: 48326

Ion	Ratio	Lower	Upper
73	100		
57	25.1	19.9	29.9



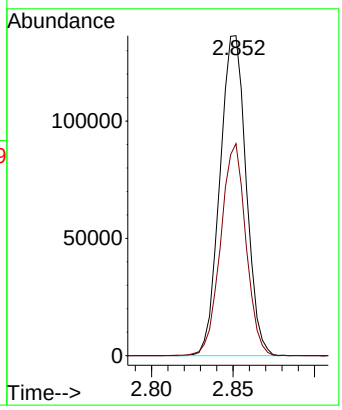


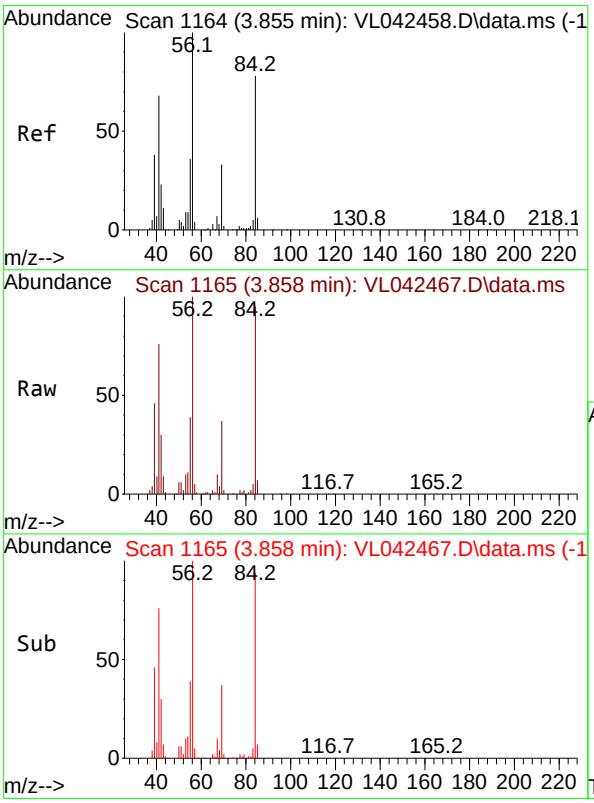
#29
Chloroform
Concen: 10.050 ppbv
RT: 2.852 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042467.D
Acq: 01 May 2025 15:46

Instrument :
MSVOA_L
ClientSampleId :
ICVVL050125

Tgt Ion: 83 Resp: 152381

Ion	Ratio	Lower	Upper
83	100		
85	66.2	50.4	75.6

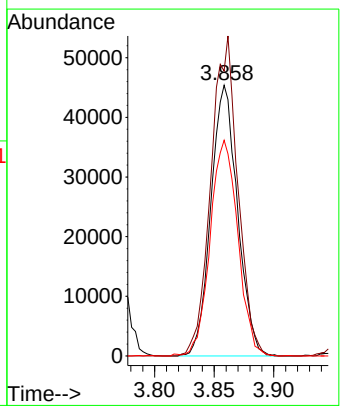


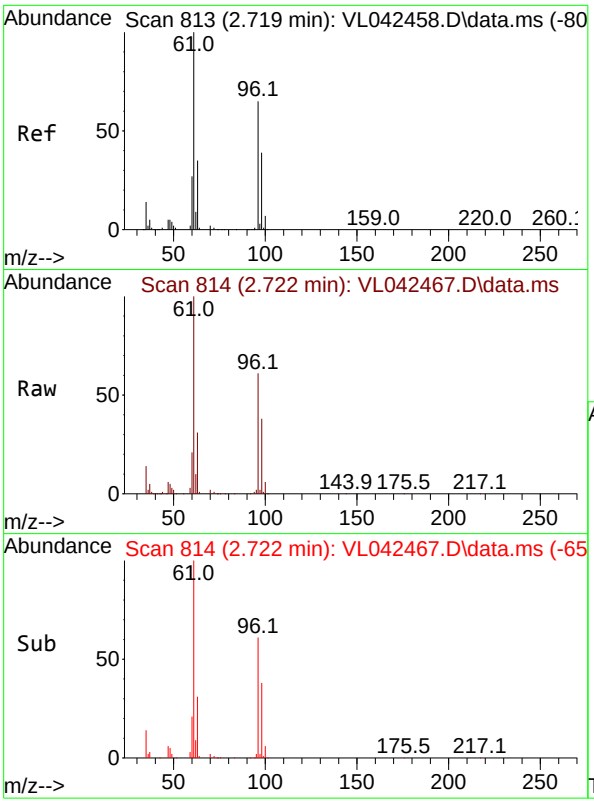


#30
Cyclohexane
Concen: 10.434 ppbv
RT: 3.858 min Scan# 1165
Delta R.T. 0.003 min
Lab File: VL042467.D
Acq: 01 May 2025 15:46

Tgt Ion: 84 Resp: 70581

Ion	Ratio	Lower	Upper
84	100		
56	119.2	98.1	147.1
41	82.7	65.8	98.8



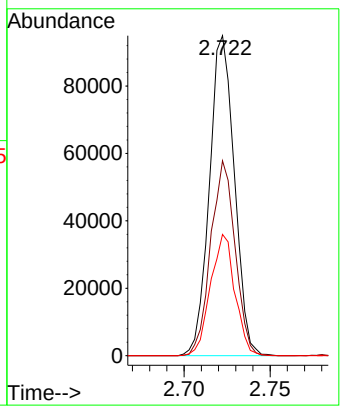


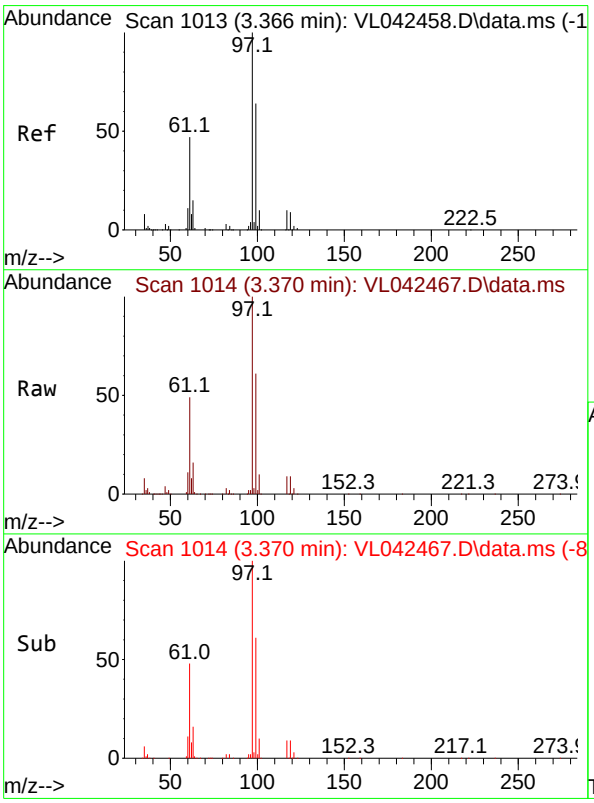
#31
cis-1,2-Dichloroethene
Concen: 10.148 ppbv
RT: 2.722 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042467.D
Acq: 01 May 2025 15:46

Instrument :
MSVOA_L
ClientSampleId :
ICVVL050125

Tgt Ion: 61 Resp: 95793

Ion	Ratio	Lower	Upper
61	100		
96	60.9	52.0	78.0
98	37.9	31.0	46.6

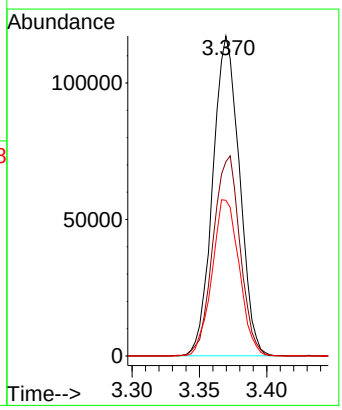


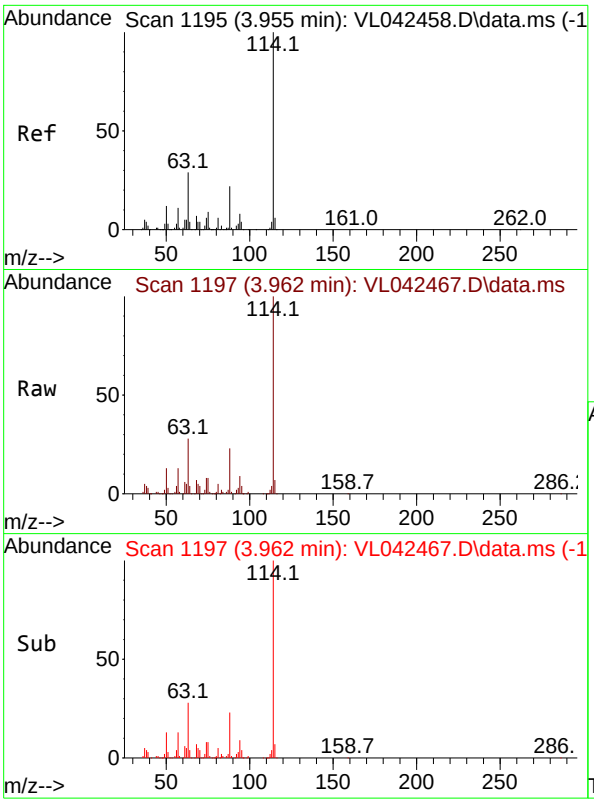


#32
1,1,1-Trichloroethane
Concen: 9.816 ppbv
RT: 3.370 min Scan# 1014
Delta R.T. 0.003 min
Lab File: VL042467.D
Acq: 01 May 2025 15:46

Tgt Ion: 97 Resp: 161465

Ion	Ratio	Lower	Upper
97	100		
99	63.6	50.7	76.1
61	50.0	40.9	61.3



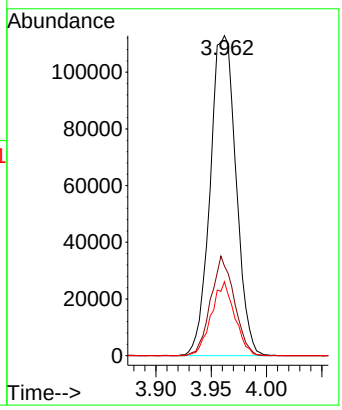


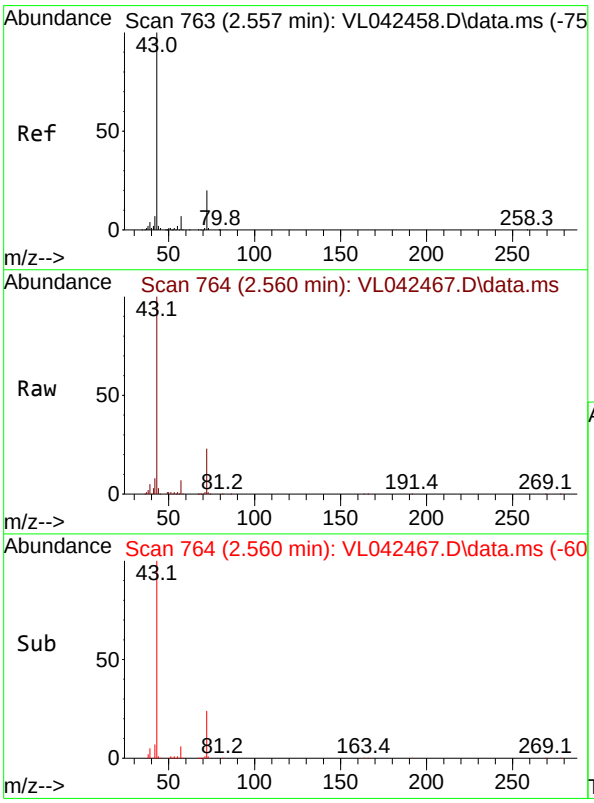
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.962 min Scan# 11
Delta R.T. 0.007 min
Lab File: VL042467.D
Acq: 01 May 2025 15:46

Instrument :
MSVOA_L
ClientSampleId :
ICVVL050125

Tgt Ion:114 Resp: 183679

Ion	Ratio	Lower	Upper
114	100		
63	28.4	23.1	34.7
88	20.9	16.1	24.1

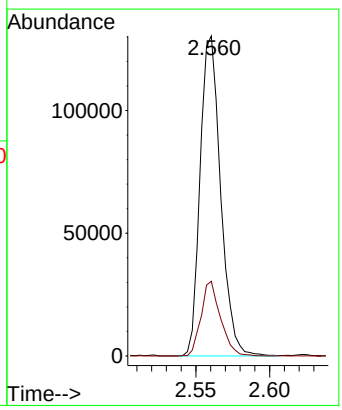


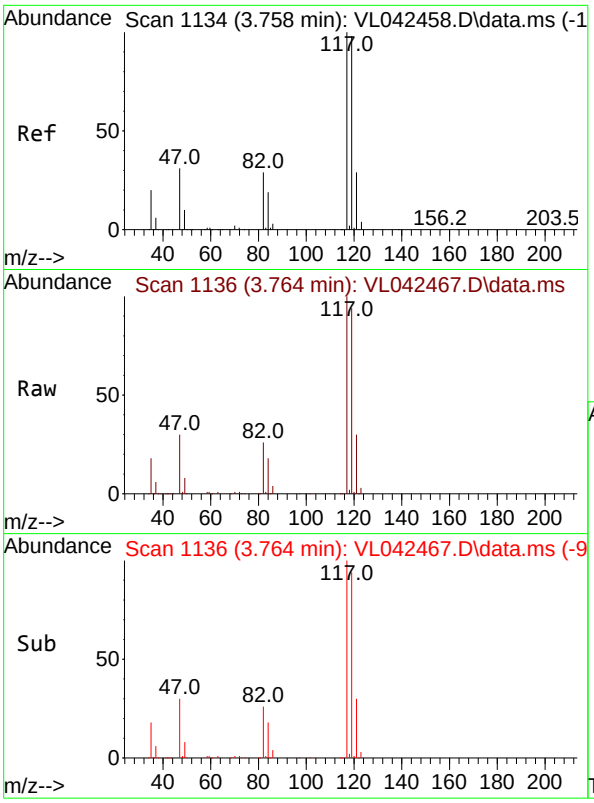


#34
2-Butanone
Concen: 9.475 ppbv
RT: 2.560 min Scan# 764
Delta R.T. 0.003 min
Lab File: VL042467.D
Acq: 01 May 2025 15:46

Tgt Ion: 43 Resp: 125883

Ion	Ratio	Lower	Upper
43	100		
72	22.2	16.7	25.1



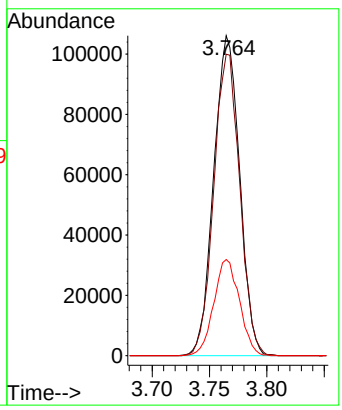


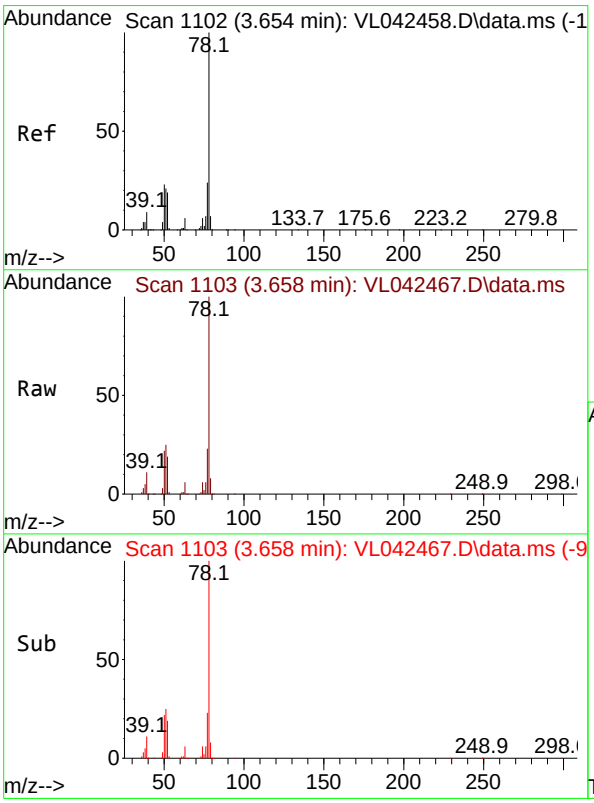
#35
Carbon Tetrachloride
Concen: 9.998 ppbv
RT: 3.764 min Scan# 11
Delta R.T. 0.007 min
Lab File: VL042467.D
Acq: 01 May 2025 15:46

Instrument :
MSVOA_L
ClientSampleId :
ICVVL050125

Tgt Ion:117 Resp: 166814

Ion	Ratio	Lower	Upper
117	100		
119	94.2	78.1	117.1
121	30.1	23.0	34.6

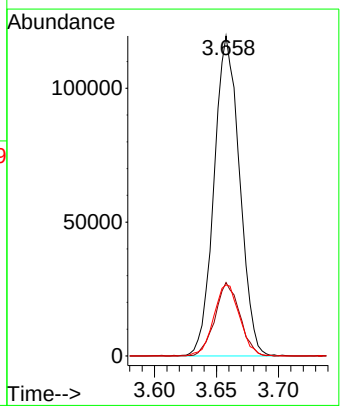


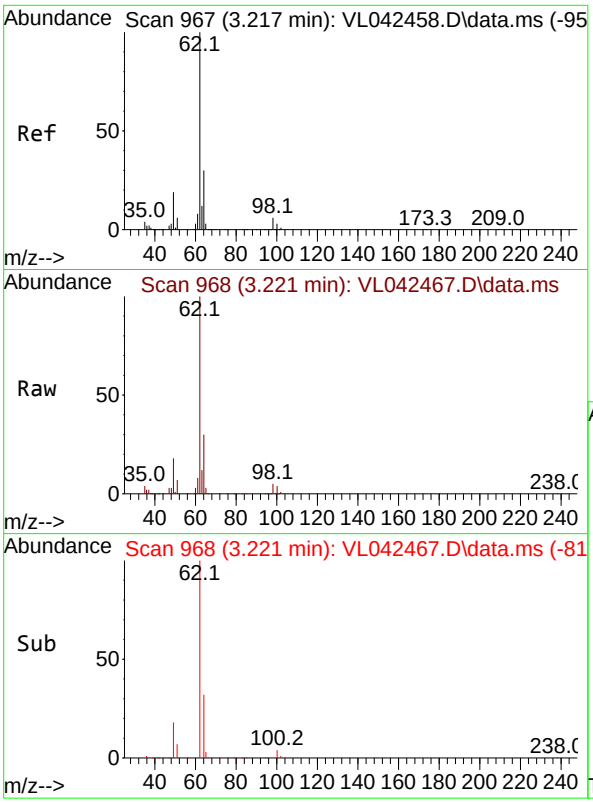


#36
Benzene
Concen: 9.888 ppbv
RT: 3.658 min Scan# 1103
Delta R.T. 0.003 min
Lab File: VL042467.D
Acq: 01 May 2025 15:46

Tgt Ion: 78 Resp: 171384

Ion	Ratio	Lower	Upper
78	100		
77	22.9	18.9	28.3
50	22.2	18.4	27.6



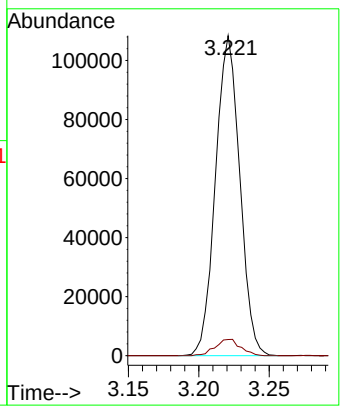


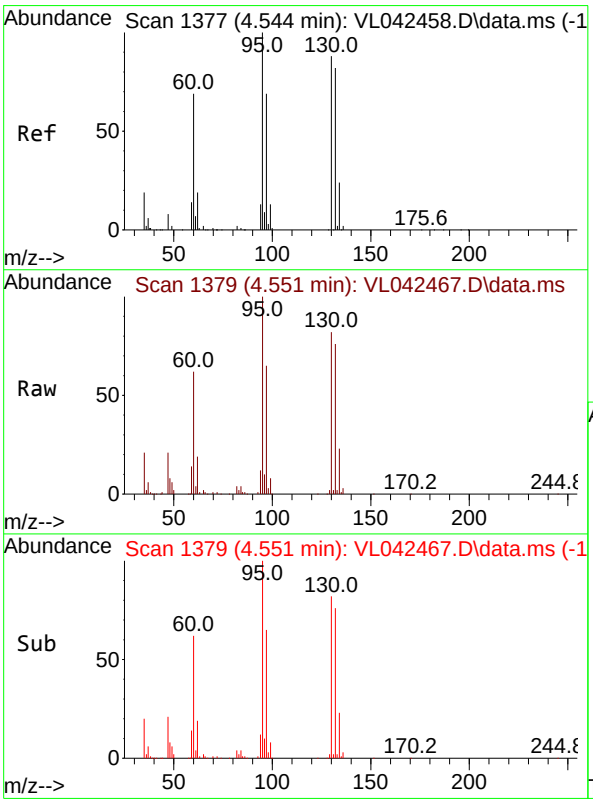
#37
1,2-Dichloroethane
Concen: 9.736 ppbv
RT: 3.221 min Scan# 9
Delta R.T. 0.003 min
Lab File: VL042467.D
Acq: 01 May 2025 15:46

Instrument :
MSVOA_L
ClientSampleId :
ICVVL050125

Tgt Ion: 62 Resp: 130063

Ion	Ratio	Lower	Upper
62	100		
98	5.3	4.3	6.5

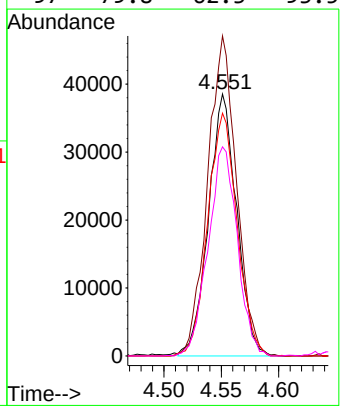


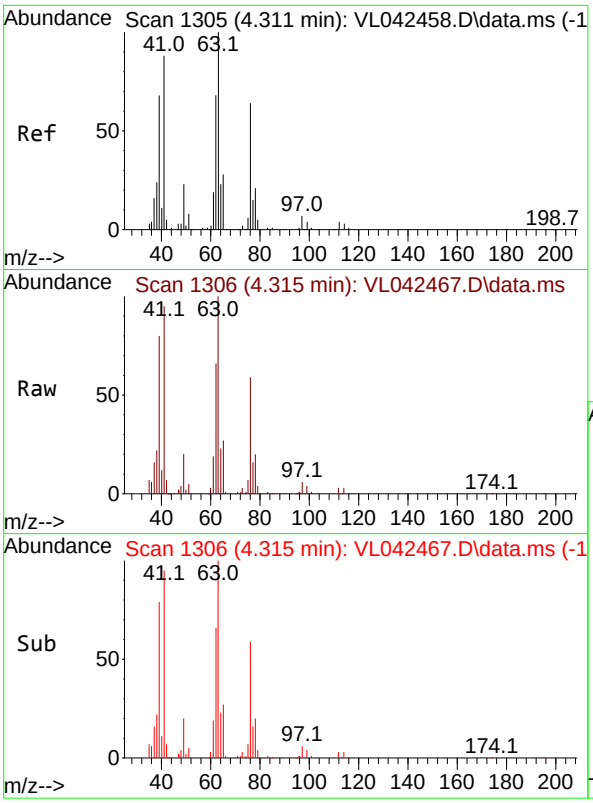


#38
Trichloroethene
Concen: 9.976 ppbv
RT: 4.551 min Scan# 1379
Delta R.T. 0.007 min
Lab File: VL042467.D
Acq: 01 May 2025 15:46

Tgt Ion:130 Resp: 65940

Ion	Ratio	Lower	Upper
130	100		
95	122.0	91.0	136.4
132	92.7	74.2	111.4
97	79.8	62.3	93.5



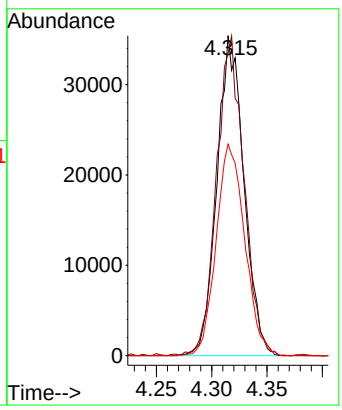


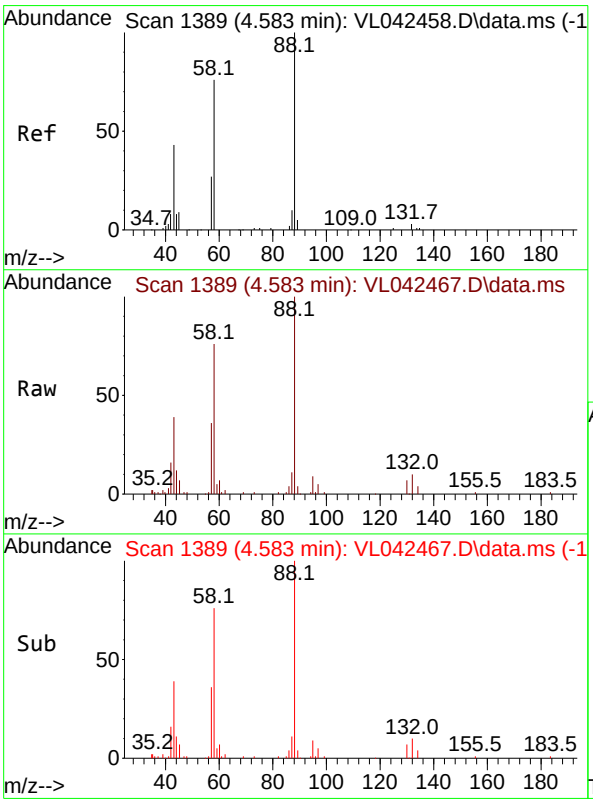
#39
1,2-Dichloropropane
Concen: 9.248 ppbv
RT: 4.315 min Scan# 1
Delta R.T. 0.003 min
Lab File: VL042467.D
Acq: 01 May 2025 15:46

Instrument :
MSVOA_L
ClientSampleId :
ICVVL050125

Tgt Ion: 63 Resp: 60010

Ion	Ratio	Lower	Upper
63	100		
41	94.2	69.8	104.6
62	65.9	54.3	81.5

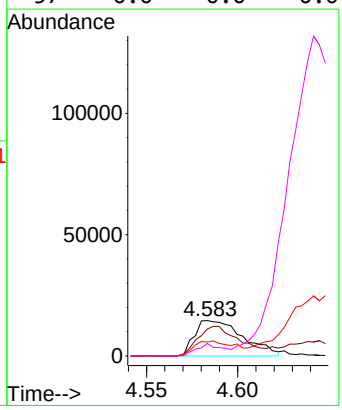


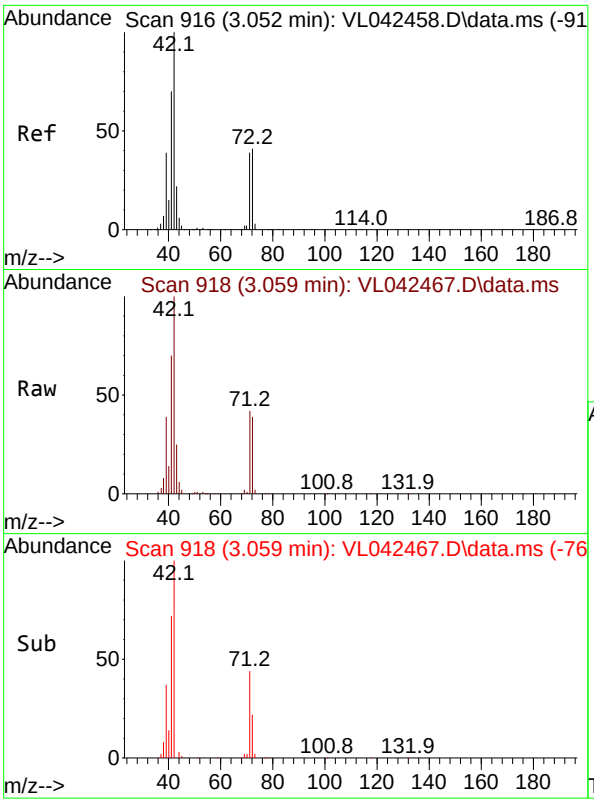


#40
1,4-Dioxane
Concen: 8.878 ppbv
RT: 4.583 min Scan# 1389
Delta R.T. 0.000 min
Lab File: VL042467.D
Acq: 01 May 2025 15:46

Tgt Ion: 88 Resp: 26978

Ion	Ratio	Lower	Upper
88	100		
58	73.0	0.0	0.0#
43	37.4	0.0	0.0#
57	0.0	0.0	0.0



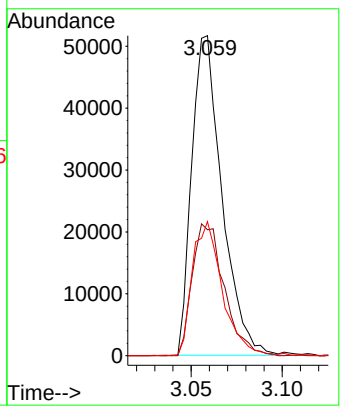


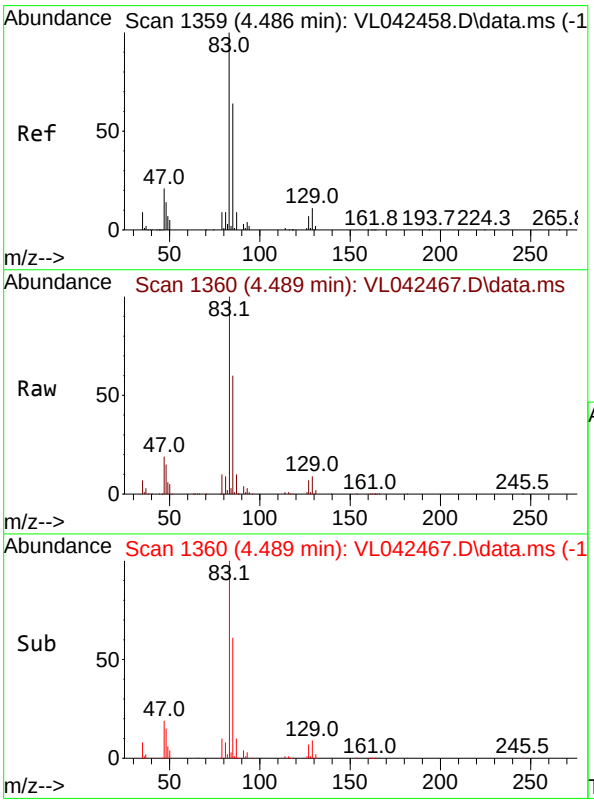
#41
Tetrahydrofuran
Concen: 9.440 ppbv
RT: 3.059 min Scan# 91
Delta R.T. 0.007 min
Lab File: VL042467.D
Acq: 01 May 2025 15:46

Instrument :
MSVOA_L
ClientSampleId :
ICVVL050125

Tgt Ion: 42 Resp: 59604

Ion	Ratio	Lower	Upper
42	100		
72	43.7	33.5	50.3
71	41.7	32.6	49.0

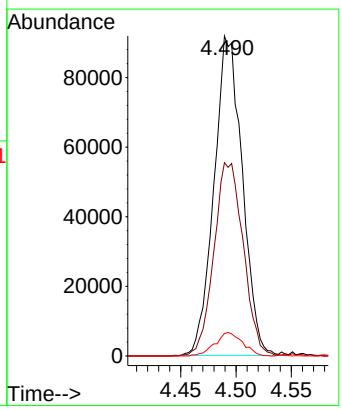


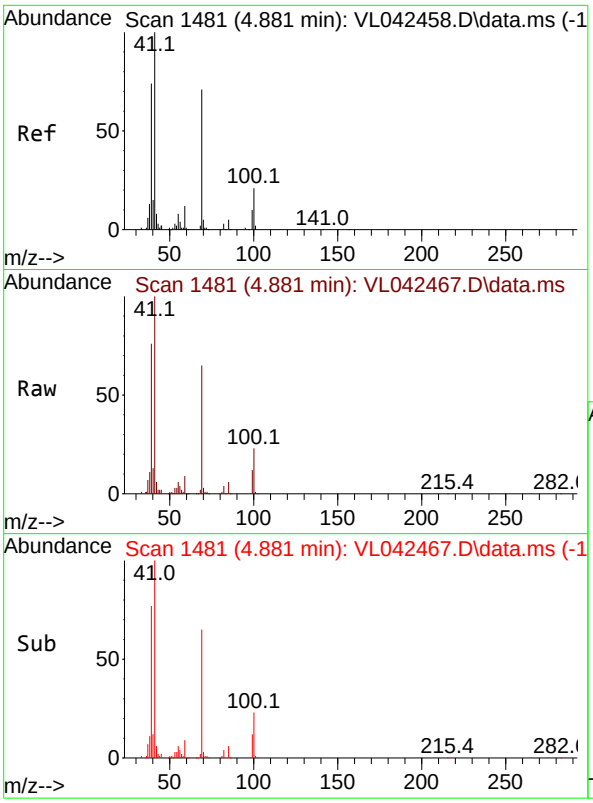


#42
Bromodichloromethane
Concen: 9.999 ppbv
RT: 4.489 min Scan# 1360
Delta R.T. 0.003 min
Lab File: VL042467.D
Acq: 01 May 2025 15:46

Tgt Ion: 83 Resp: 163210

Ion	Ratio	Lower	Upper
83	100		
85	60.5	51.5	77.3
127	7.0	5.4	8.2



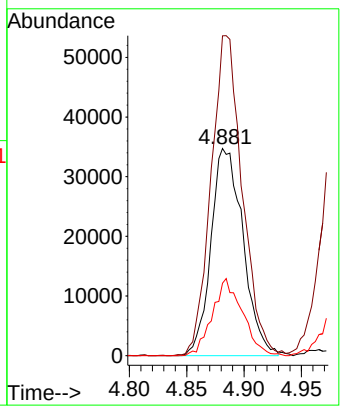


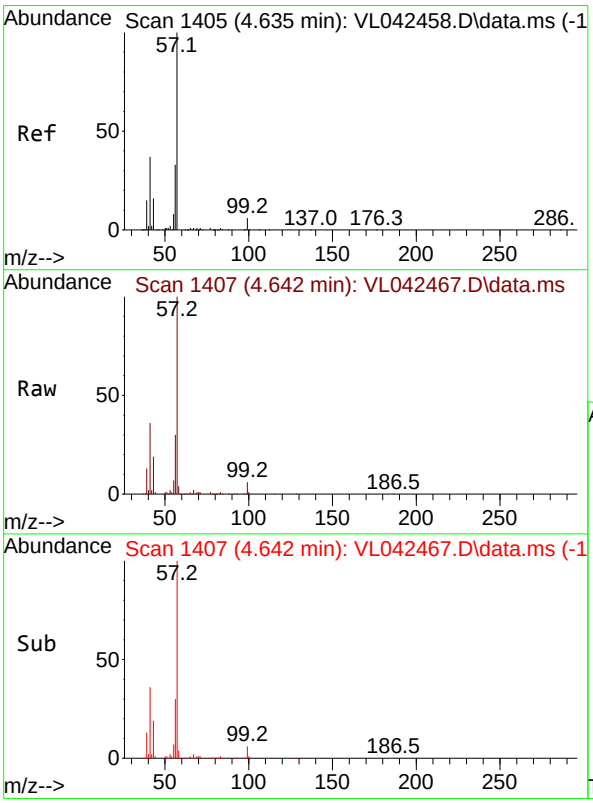
#43
Methyl Methacrylate
Concen: 10.438 ppbv
RT: 4.881 min Scan# 14
Delta R.T. 0.000 min
Lab File: VL042467.D
Acq: 01 May 2025 15:46

Instrument :
MSVOA_L
ClientSampleId :
ICVVL050125

Tgt Ion: 69 Resp: 67516

Ion	Ratio	Lower	Upper
69	100		
41	151.2	120.8	181.2
100	35.0	26.7	40.1

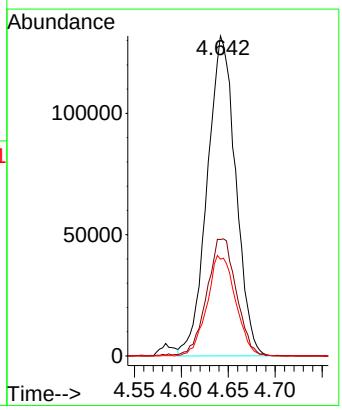


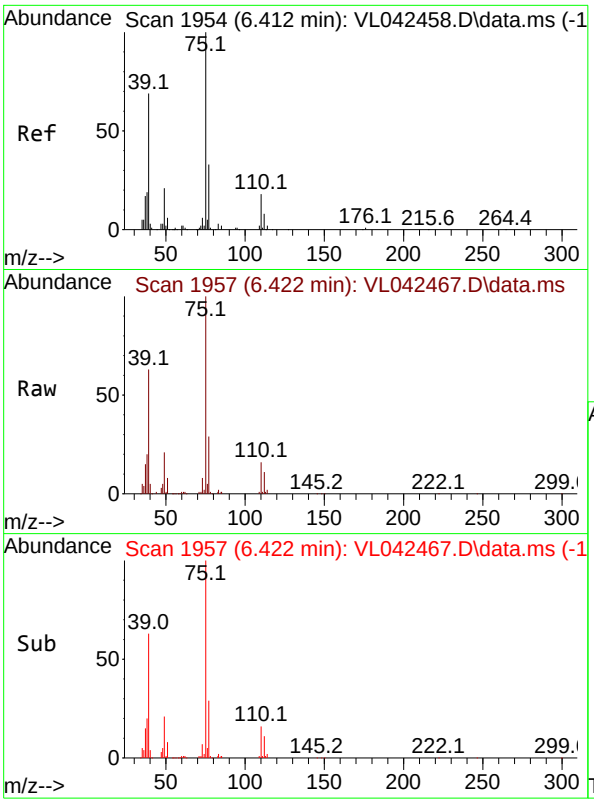


#44
2,2,4-Trimethylpentane
Concen: 9.867 ppbv
RT: 4.642 min Scan# 1407
Delta R.T. 0.007 min
Lab File: VL042467.D
Acq: 01 May 2025 15:46

Tgt Ion: 57 Resp: 277217

Ion	Ratio	Lower	Upper
57	100		
41	38.4	30.6	45.8
56	31.5	25.0	37.6



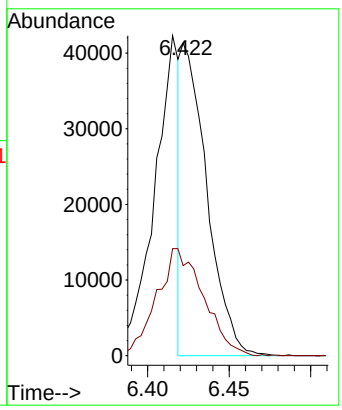


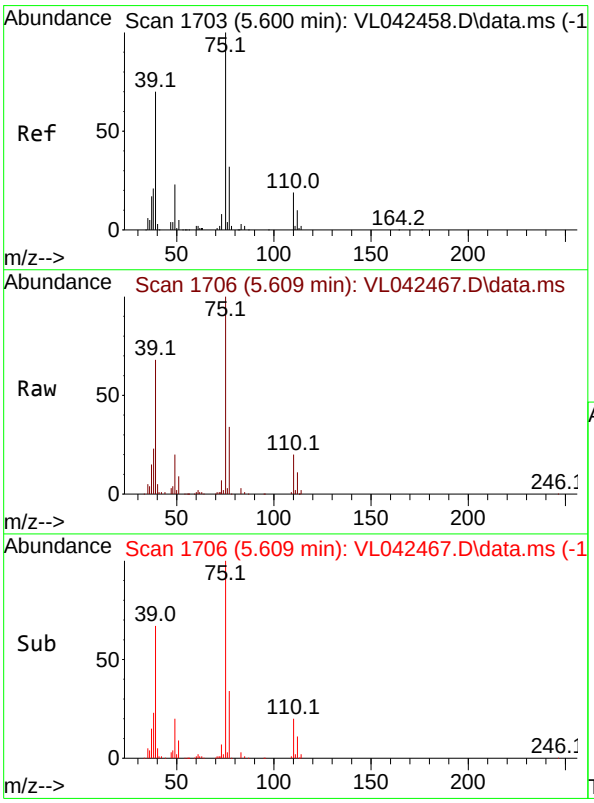
#45
t-1,3-Dichloropropene
Concen: 5.328 ppbv
RT: 6.422 min Scan# 1
Delta R.T. 0.010 min
Lab File: VL042467.D
Acq: 01 May 2025 15:46

Instrument :
MSVOA_L
ClientSampleId :
ICVVL050125

Tgt Ion: 75 Resp: 45216

Ion	Ratio	Lower	Upper
75	100		
77	28.9	26.3	39.5

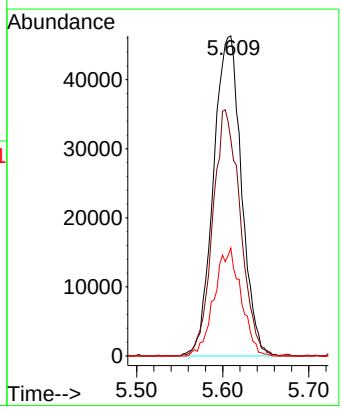


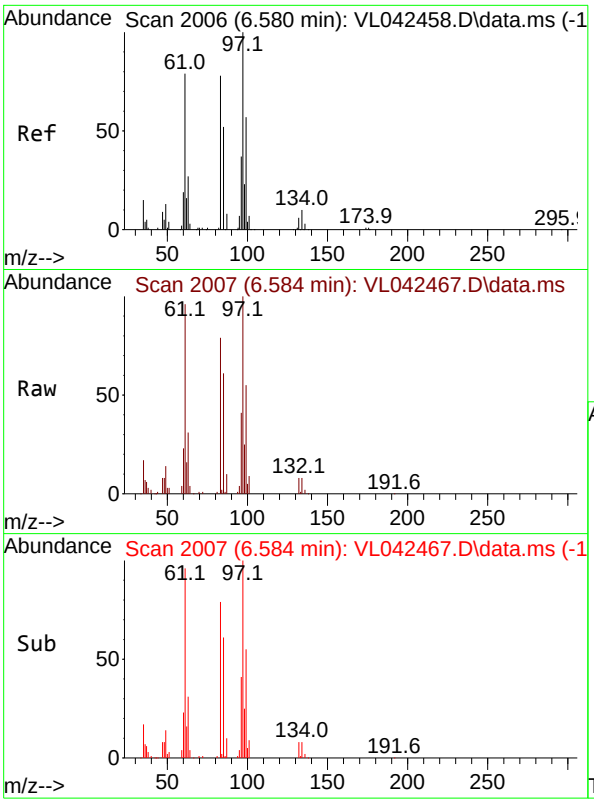


#46
cis-1,3-Dichloropropene
Concen: 10.378 ppbv
RT: 5.609 min Scan# 1706
Delta R.T. 0.010 min
Lab File: VL042467.D
Acq: 01 May 2025 15:46

Tgt Ion: 75 Resp: 104665

Ion	Ratio	Lower	Upper
75	100		
39	67.5	55.7	83.5
77	33.8	25.8	38.8



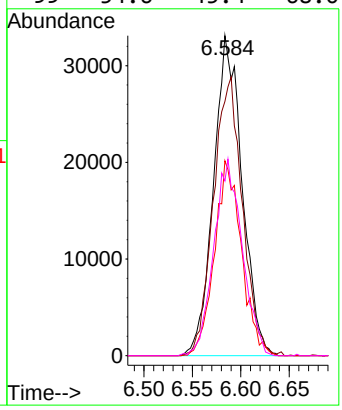


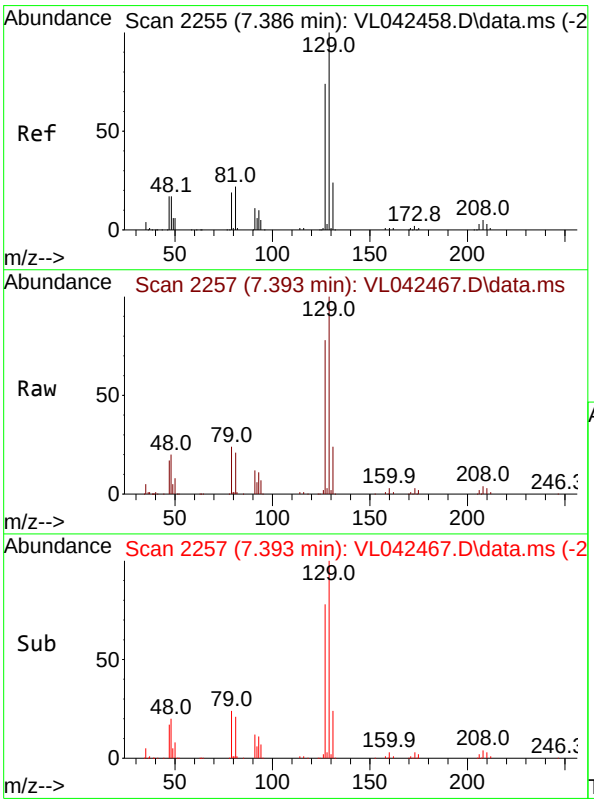
#47
1,1,2-Trichloroethane
Concen: 9.530 ppbv
RT: 6.584 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042467.D
Acq: 01 May 2025 15:46

Instrument :
MSVOA_L
ClientSampleId :
ICVVL050125

Tgt Ion: 97 Resp: 67821

Ion	Ratio	Lower	Upper
97	100		
83	79.5	62.2	93.2
85	60.9	41.5	62.3
99	54.6	45.4	68.0

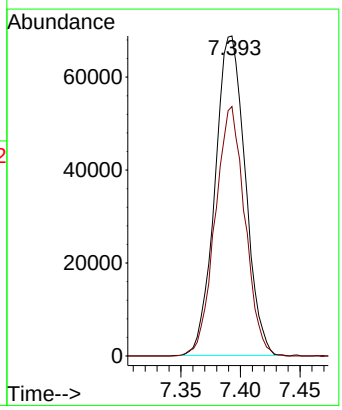


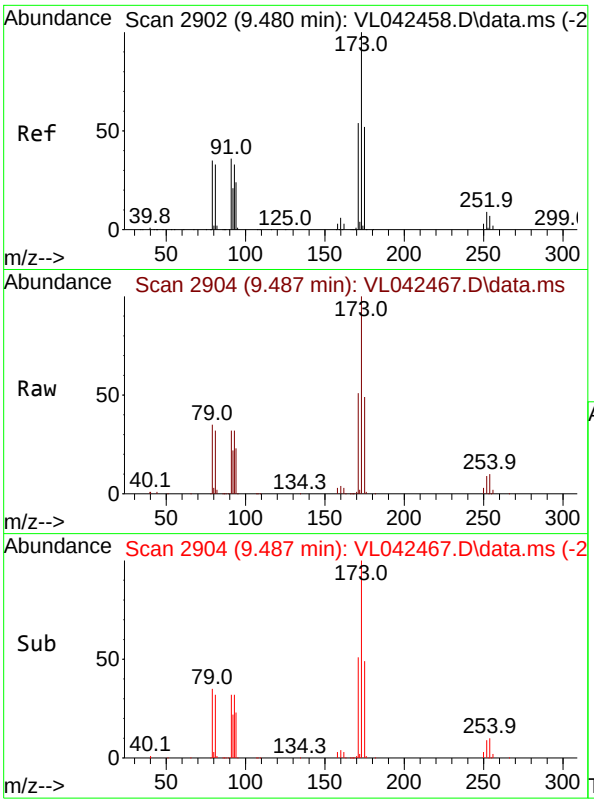


#48
Dibromochloromethane
Concen: 10.103 ppbv
RT: 7.393 min Scan# 2257
Delta R.T. 0.007 min
Lab File: VL042467.D
Acq: 01 May 2025 15:46

Tgt Ion:129 Resp: 121381

Ion	Ratio	Lower	Upper
129	100		
127	76.8	39.5	118.5



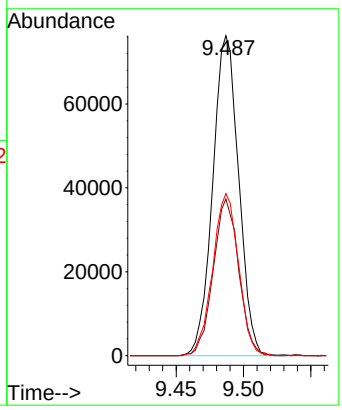


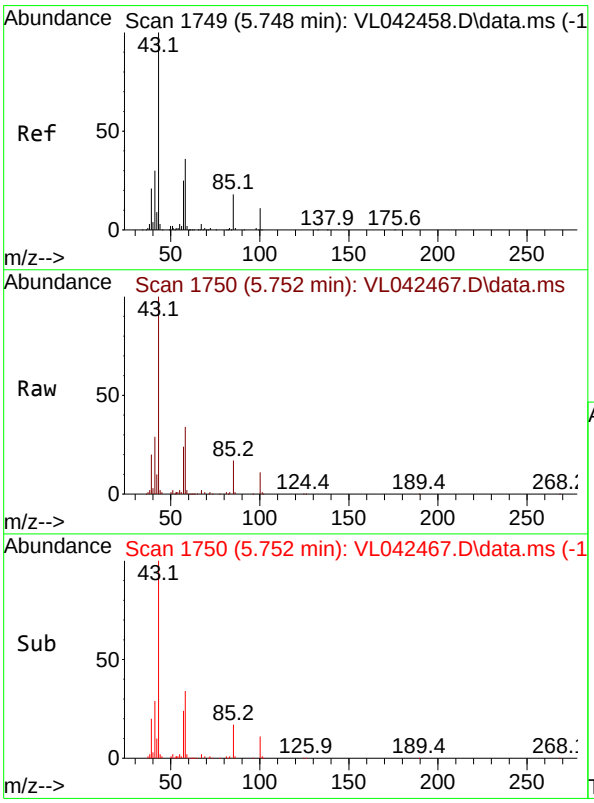
#49
Bromoform
Concen: 10.138 ppbv
RT: 9.487 min Scan# 2
Delta R.T. 0.007 min
Lab File: VL042467.D
Acq: 01 May 2025 15:46

Instrument :
MSVOA_L
ClientSampleId :
ICVVL050125

Tgt Ion:173 Resp: 102150

Ion	Ratio	Lower	Upper
173	100		
175	48.2	38.9	58.3
171	50.6	40.6	60.8

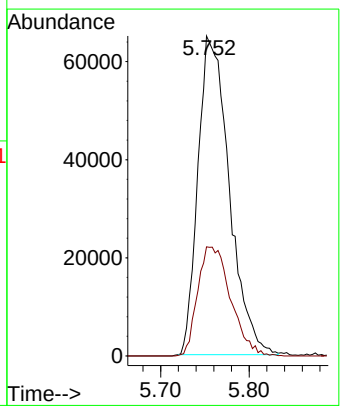


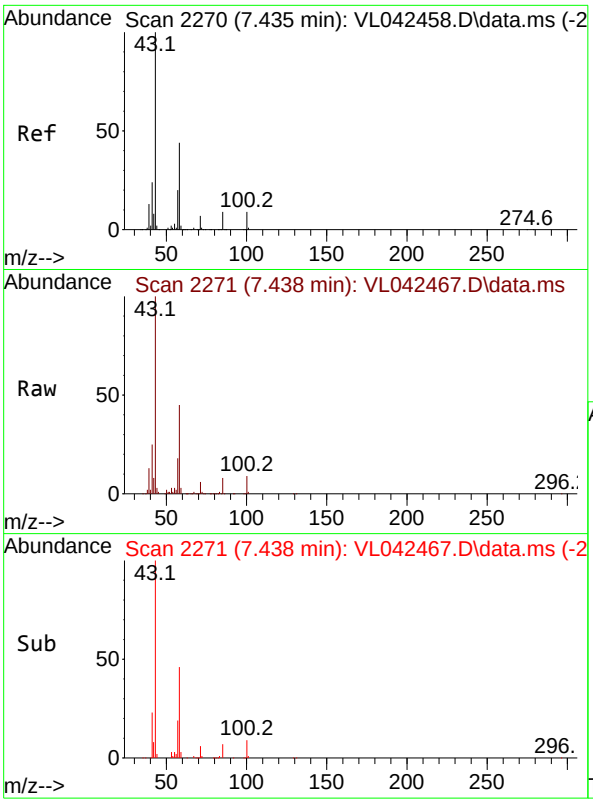


#50
4-Methyl-2-Pentanone
Concen: 9.478 ppbv
RT: 5.752 min Scan# 1750
Delta R.T. 0.003 min
Lab File: VL042467.D
Acq: 01 May 2025 15:46

Tgt Ion: 43 Resp: 159280

Ion	Ratio	Lower	Upper
43	100		
58	36.2	29.5	44.3



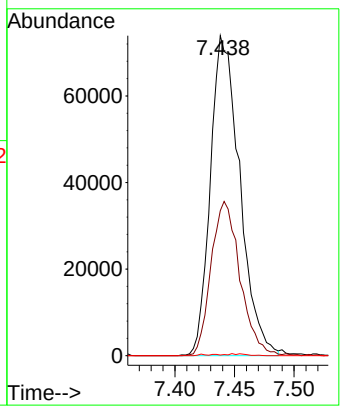


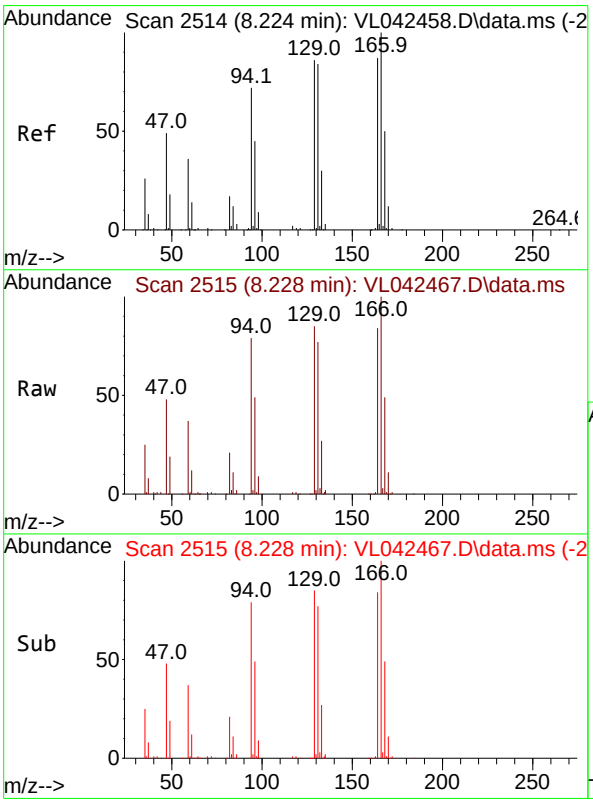
#51
2-Hexanone
Concen: 9.407 ppbv
RT: 7.438 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042467.D
Acq: 01 May 2025 15:46

Instrument :
MSVOA_L
ClientSampleId :
ICVVL050125

Tgt Ion: 43 Resp: 126396

Ion	Ratio	Lower	Upper
43	100		
58	47.8	37.2	55.8
98	0.6	0.4	0.6#

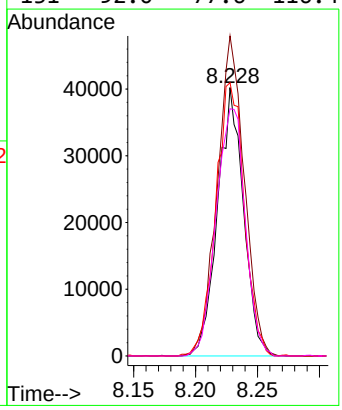


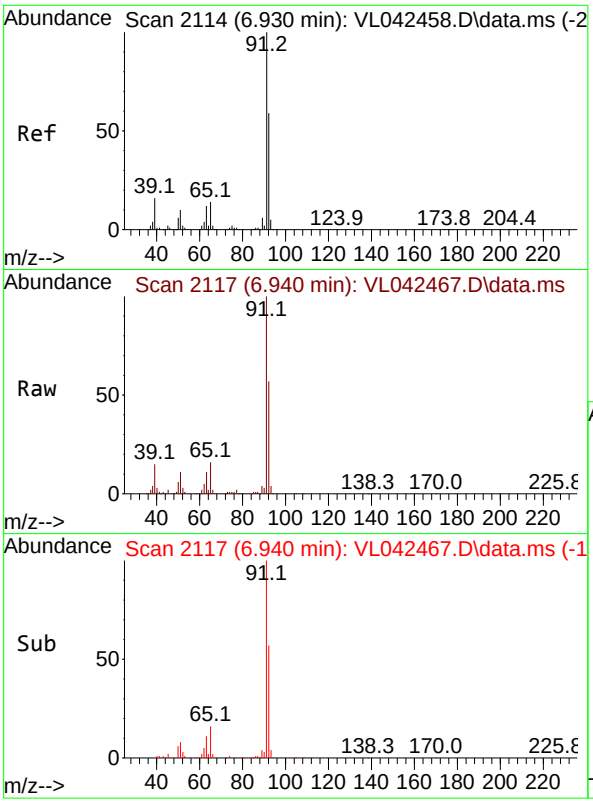


#52
Tetrachloroethene
Concen: 8.832 ppbv
RT: 8.228 min Scan# 2515
Delta R.T. 0.003 min
Lab File: VL042467.D
Acq: 01 May 2025 15:46

Tgt Ion:164 Resp: 58272

Ion	Ratio	Lower	Upper
164	100		
166	119.2	91.6	137.4
129	101.8	79.0	118.4
131	92.0	77.6	116.4



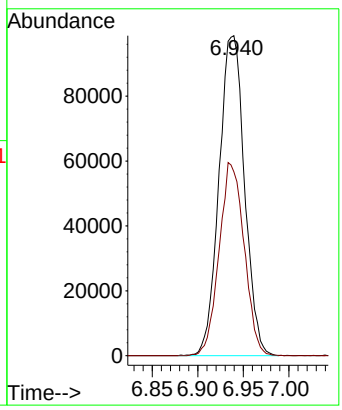


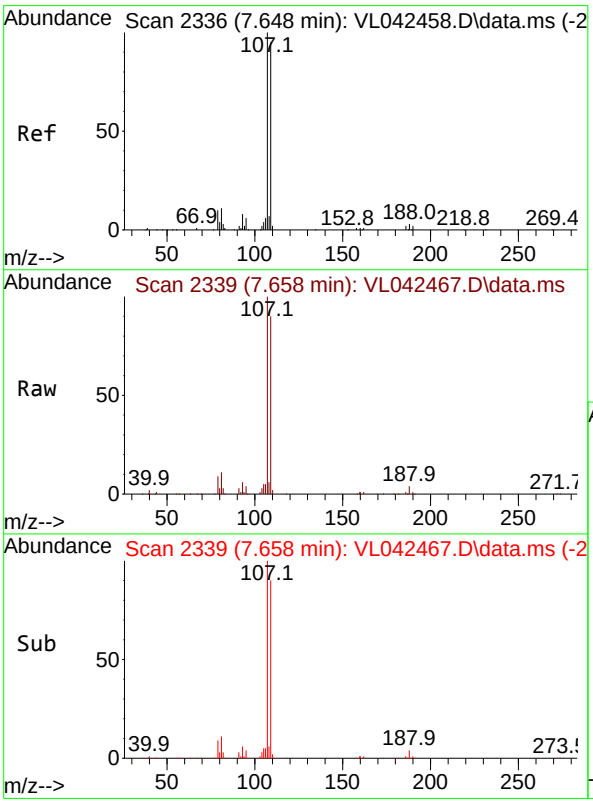
#53
Toluene
Concen: 10.461 ppbv
RT: 6.940 min Scan# 21
Delta R.T. 0.010 min
Lab File: VL042467.D
Acq: 01 May 2025 15:46

Instrument :
MSVOA_L
ClientSampleId :
ICVVL050125

Tgt Ion: 91 Resp: 191922

Ion	Ratio	Lower	Upper
91	100		
92	59.2	47.9	71.9

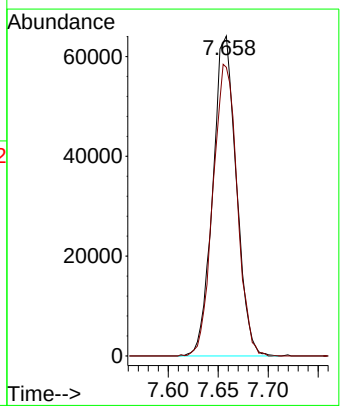


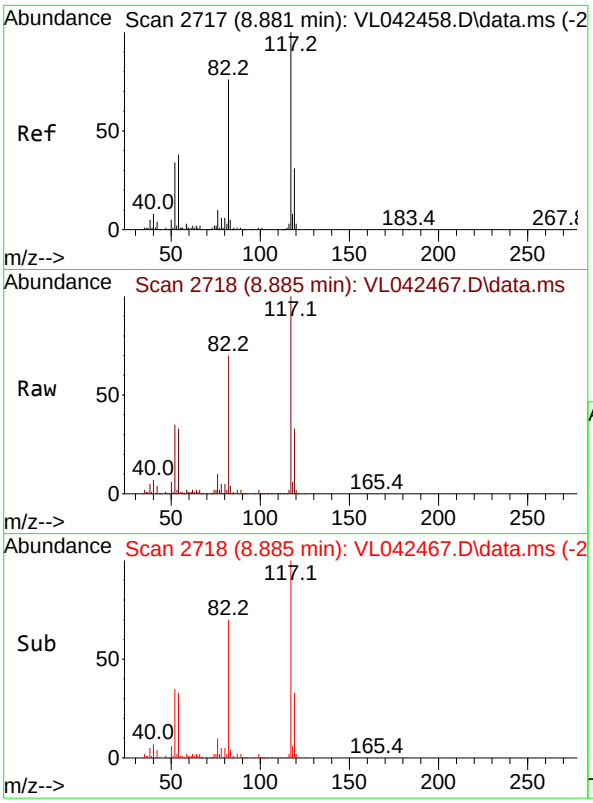


#54
1,2-Dibromoethane
Concen: 9.664 ppbv
RT: 7.658 min Scan# 2339
Delta R.T. 0.010 min
Lab File: VL042467.D
Acq: 01 May 2025 15:46

Tgt Ion:107 Resp: 105149

Ion	Ratio	Lower	Upper
107	100		
109	90.2	76.0	114.0



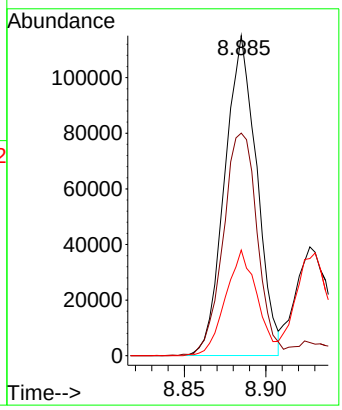


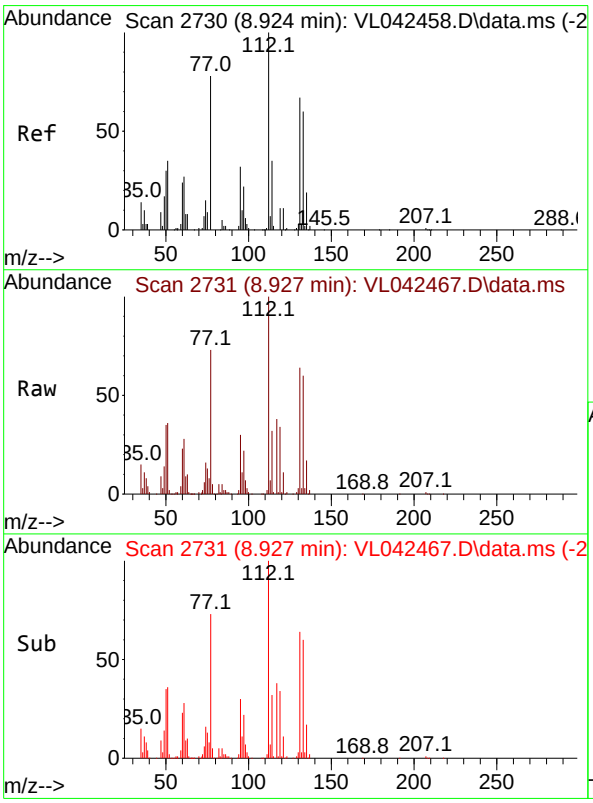
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.885 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042467.D
Acq: 01 May 2025 15:46

Instrument :
MSVOA_L
ClientSampleId :
ICVVL050125

Tgt Ion:117 Resp: 156982

Ion	Ratio	Lower	Upper
117	100		
82	75.3	63.5	95.3
119	33.8	25.8	38.8

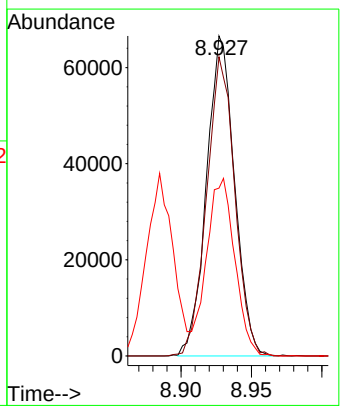


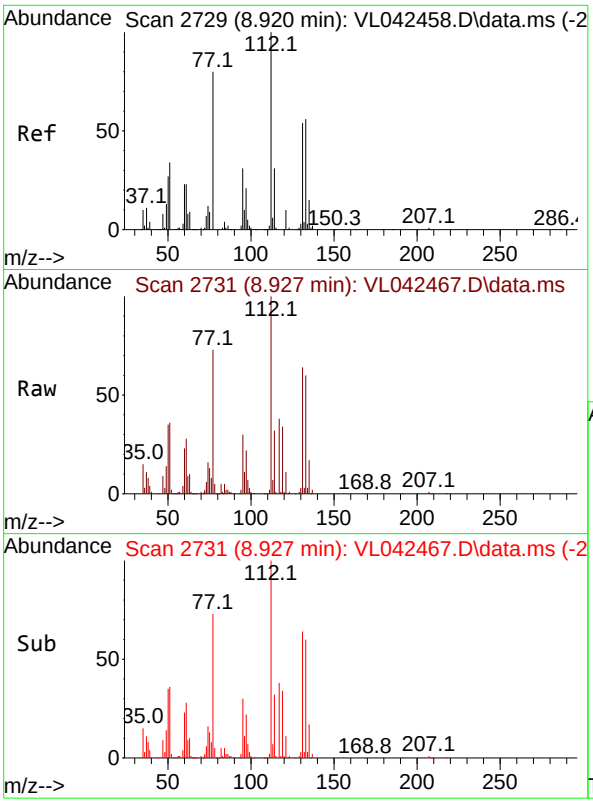


#56
1,1,1,2-Tetrachloroethane
Concen: 9.959 ppbv
RT: 8.927 min Scan# 2731
Delta R.T. 0.003 min
Lab File: VL042467.D
Acq: 01 May 2025 15:46

Tgt Ion:131 Resp: 92337

Ion	Ratio	Lower	Upper
131	100		
133	93.8	76.0	114.0
119	53.8	46.1	69.1



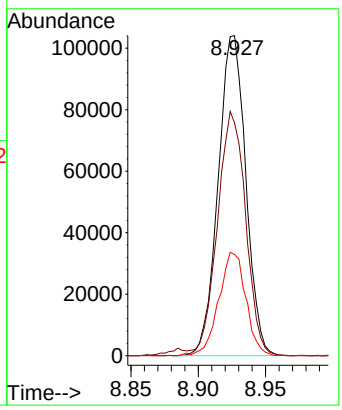


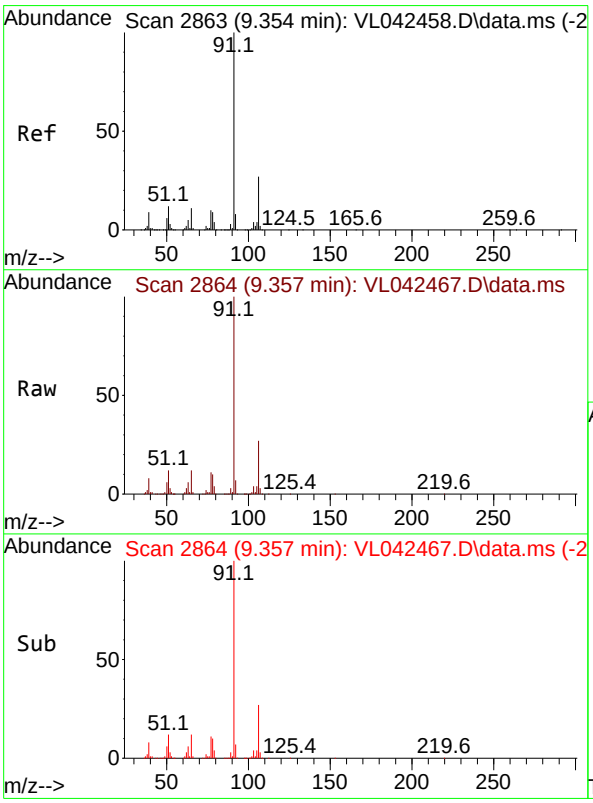
#57
Chlorobenzene
Concen: 9.431 ppbv
RT: 8.927 min Scan# 2
Delta R.T. 0.007 min
Lab File: VL042467.D
Acq: 01 May 2025 15:46

Instrument :
MSVOA_L
ClientSampleId :
ICVVL050125

Tgt Ion:112 Resp: 148759

Ion	Ratio	Lower	Upper
112	100		
77	72.5	65.0	97.4
114	31.7	27.5	33.7

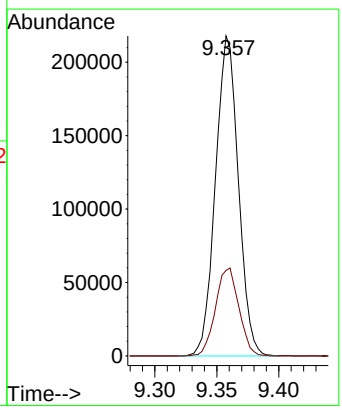


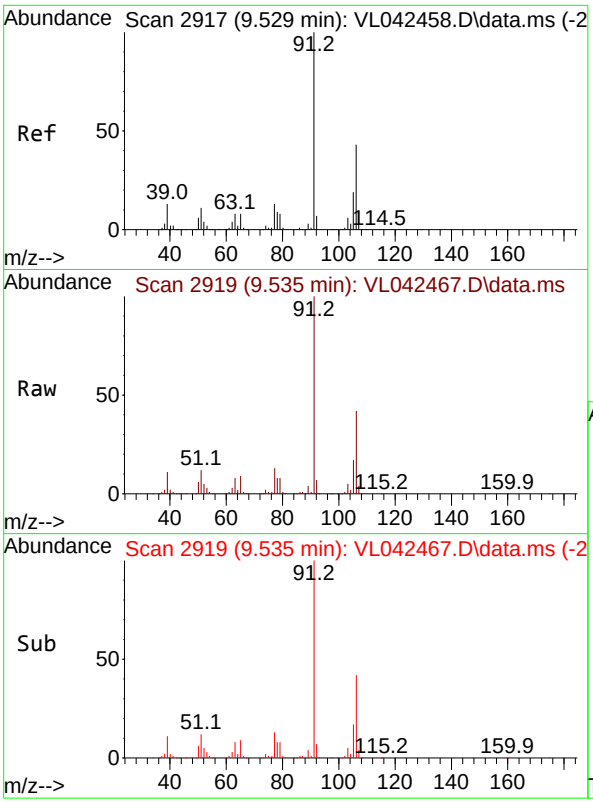


#58
Ethyl Benzene
Concen: 10.698 ppbv
RT: 9.357 min Scan# 2864
Delta R.T. 0.003 min
Lab File: VL042467.D
Acq: 01 May 2025 15:46

Tgt Ion: 91 Resp: 280660

Ion	Ratio	Lower	Upper
91	100		
106	26.7	21.9	32.9



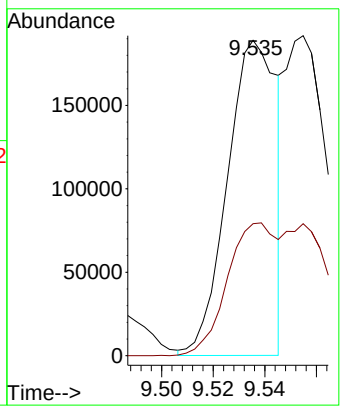


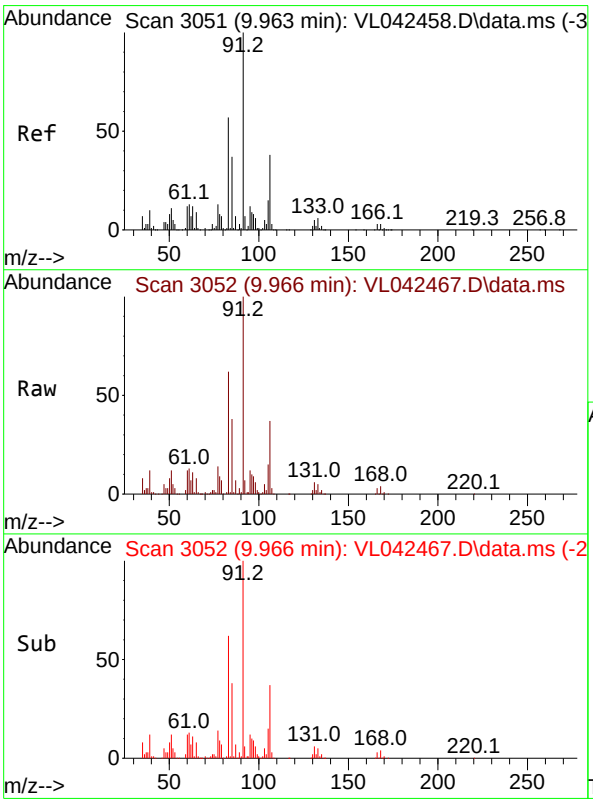
#59
m/p-Xylene
Concen: 11.365 ppbv
RT: 9.535 min Scan# 2
Delta R.T. 0.007 min
Lab File: VL042467.D
Acq: 01 May 2025 15:46

Instrument :
MSVOA_L
ClientSampleId :
ICVVL050125

Tgt Ion: 91 Resp: 249958

Ion	Ratio	Lower	Upper
91	100		
106	79.5	34.2	51.2#

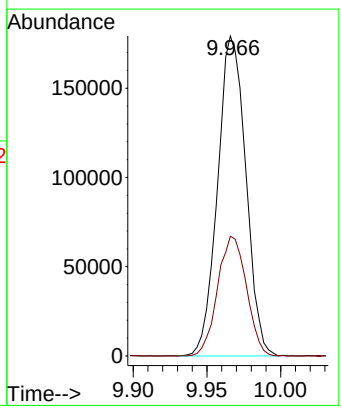


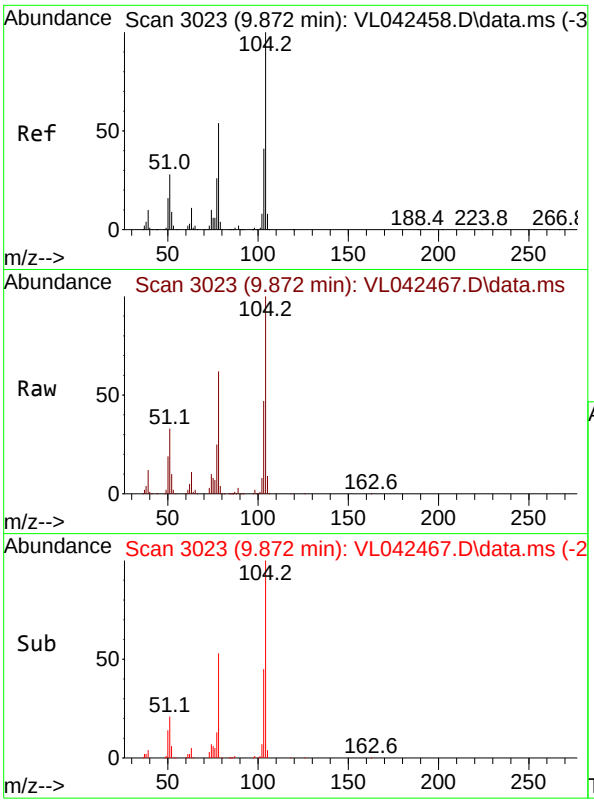


#60
o-Xylene
Concen: 10.824 ppbv
RT: 9.966 min Scan# 3052
Delta R.T. 0.003 min
Lab File: VL042467.D
Acq: 01 May 2025 15:46

Tgt Ion: 91 Resp: 238347

Ion	Ratio	Lower	Upper
91	100		
106	38.2	20.1	60.2



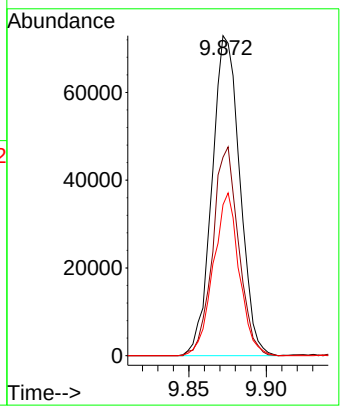


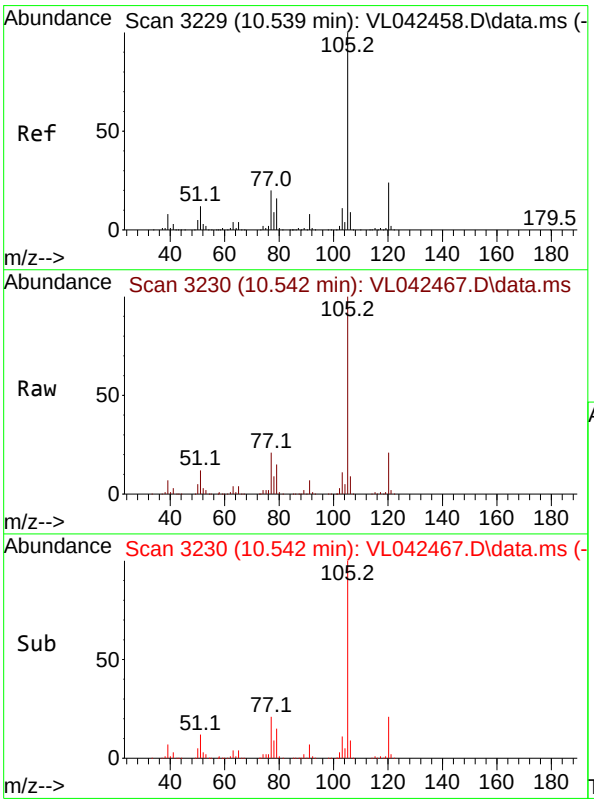
#61
Styrene
Concen: 11.090 ppbv
RT: 9.872 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042467.D
Acq: 01 May 2025 15:46

Instrument :
MSVOA_L
ClientSampleId :
ICVVL050125

Tgt Ion:104 Resp: 91128

Ion	Ratio	Lower	Upper
104	100		
78	60.5	46.9	70.3
103	47.4	36.6	55.0

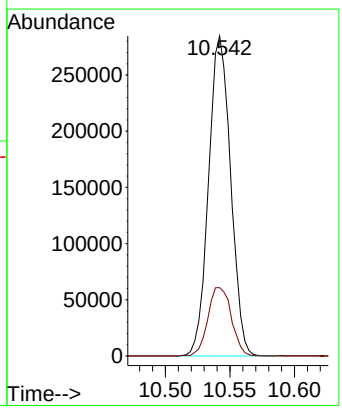


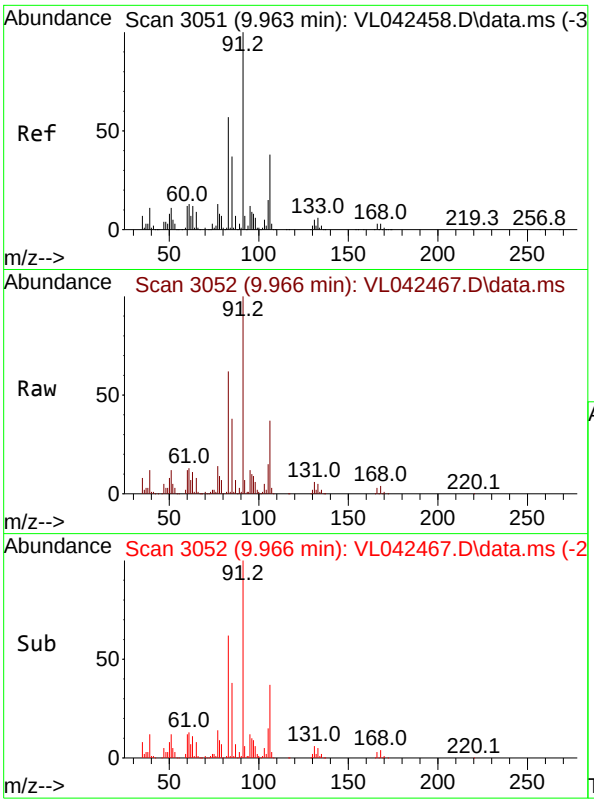


#62
Isopropylbenzene
Concen: 10.641 ppbv
RT: 10.542 min Scan# 3230
Delta R.T. 0.003 min
Lab File: VL042467.D
Acq: 01 May 2025 15:46

Tgt Ion:105 Resp: 337992

Ion	Ratio	Lower	Upper
105	100		
120	22.8	18.8	28.2



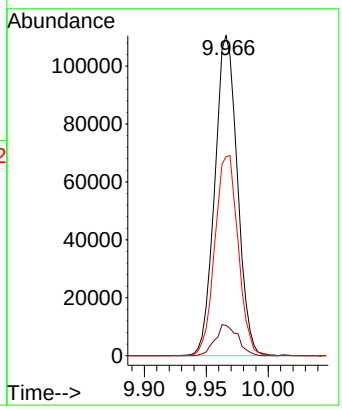


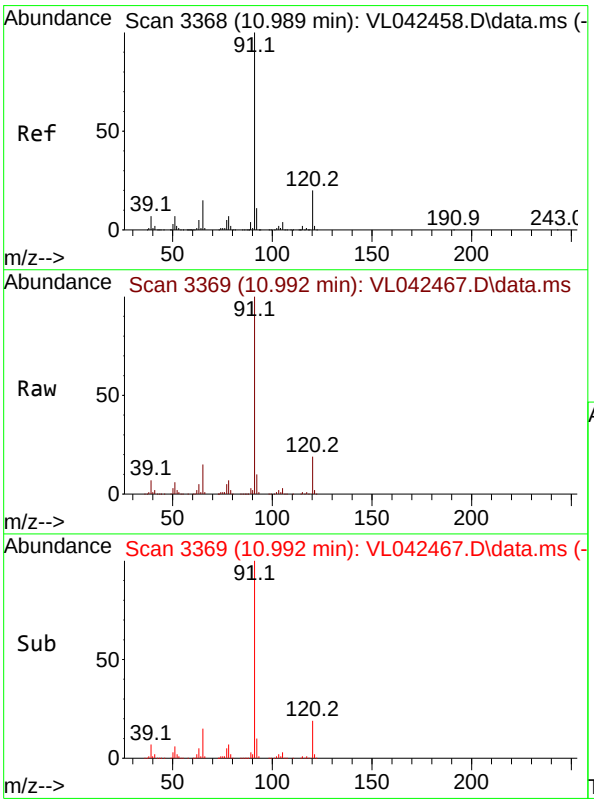
#63
1,1,2,2-Tetrachloroethane
Concen: 9.242 ppbv
RT: 9.966 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042467.D
Acq: 01 May 2025 15:46

Instrument :
MSVOA_L
ClientSampleId :
ICVVL050125

Tgt Ion: 83 Resp: 140306

Ion	Ratio	Lower	Upper
83	100		
131	9.8	4.7	14.1
85	64.6	32.5	97.4

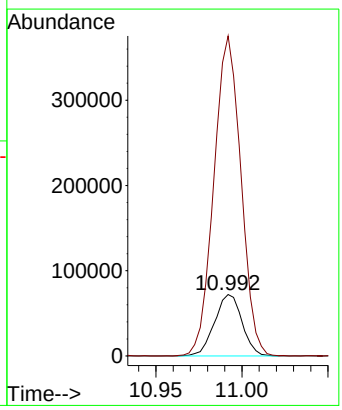


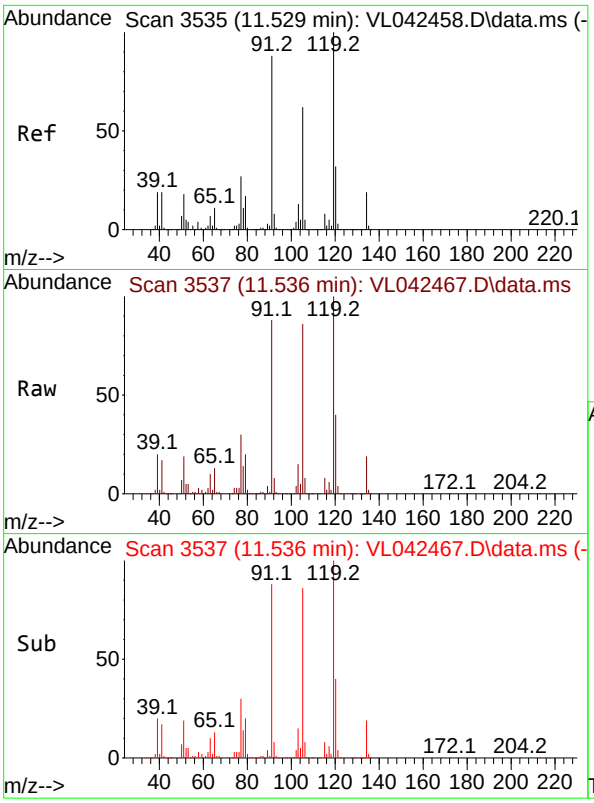


#64
n-propylbenzene
Concen: 10.303 ppbv
RT: 10.992 min Scan# 3369
Delta R.T. 0.003 min
Lab File: VL042467.D
Acq: 01 May 2025 15:46

Tgt Ion:120 Resp: 79983

Ion	Ratio	Lower	Upper
120	100		
91	514.2	408.6	612.8



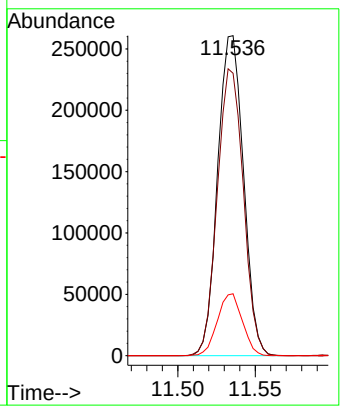


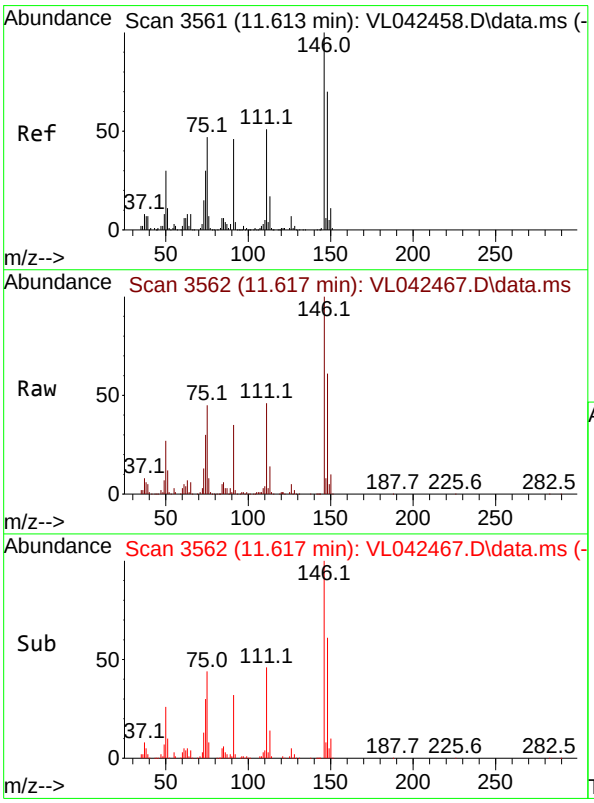
#65
tert-Butylbenzene
Concen: 10.672 ppbv
RT: 11.536 min Scan# 3
Delta R.T. 0.007 min
Lab File: VL042467.D
Acq: 01 May 2025 15:46

Instrument :
MSVOA_L
ClientSampleId :
ICVVL050125

Tgt Ion:119 Resp: 302506

Ion	Ratio	Lower	Upper
119	100		
91	90.4	71.6	107.4
134	18.7	15.0	22.4

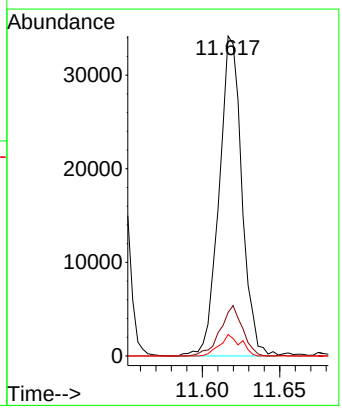


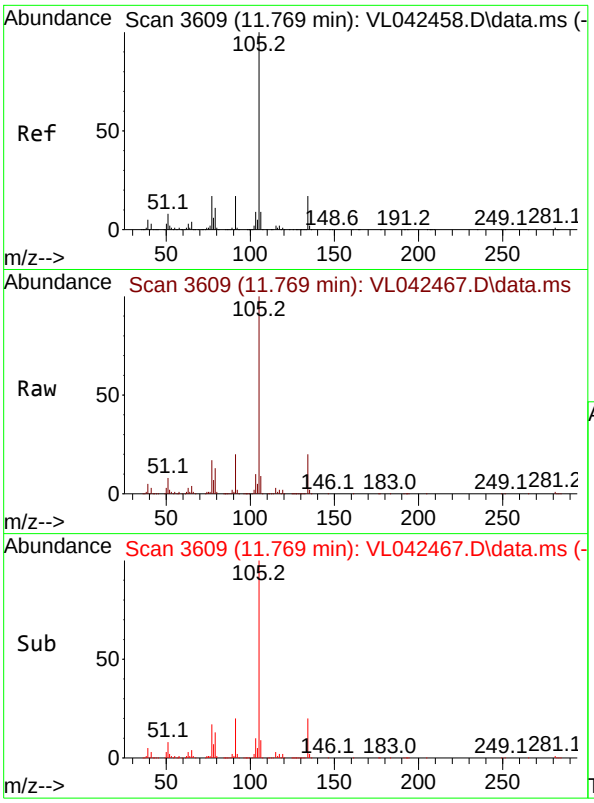


#66
Benzyl Chloride
Concen: 10.663 ppbv
RT: 11.617 min Scan# 3562
Delta R.T. 0.003 min
Lab File: VL042467.D
Acq: 01 May 2025 15:46

Tgt Ion: 91 Resp: 34933

Ion	Ratio	Lower	Upper
91	100		
126	15.5	13.3	19.9
128	6.2	4.2	6.4



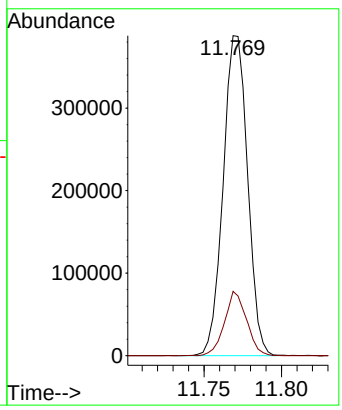


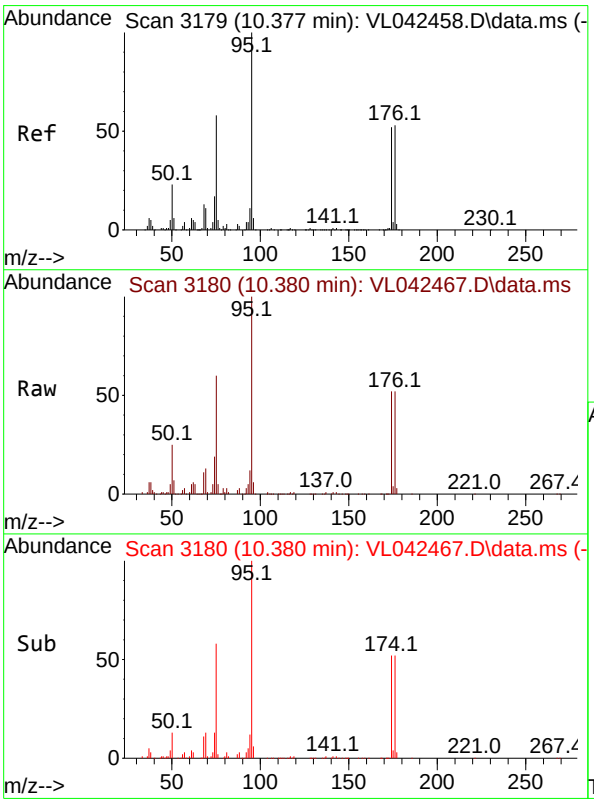
#67
sec-Butylbenzene
Concen: 10.562 ppbv
RT: 11.769 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042467.D
Acq: 01 May 2025 15:46

Instrument :
MSVOA_L
ClientSampleId :
ICVVL050125

Tgt Ion:105 Resp: 425444

Ion	Ratio	Lower	Upper
105	100		
134	18.2	14.1	21.1

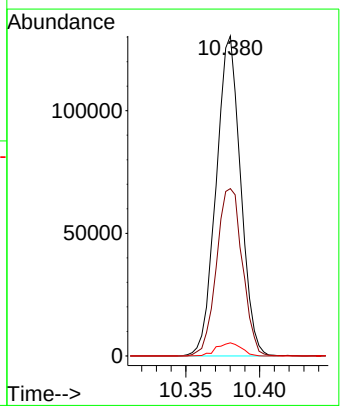


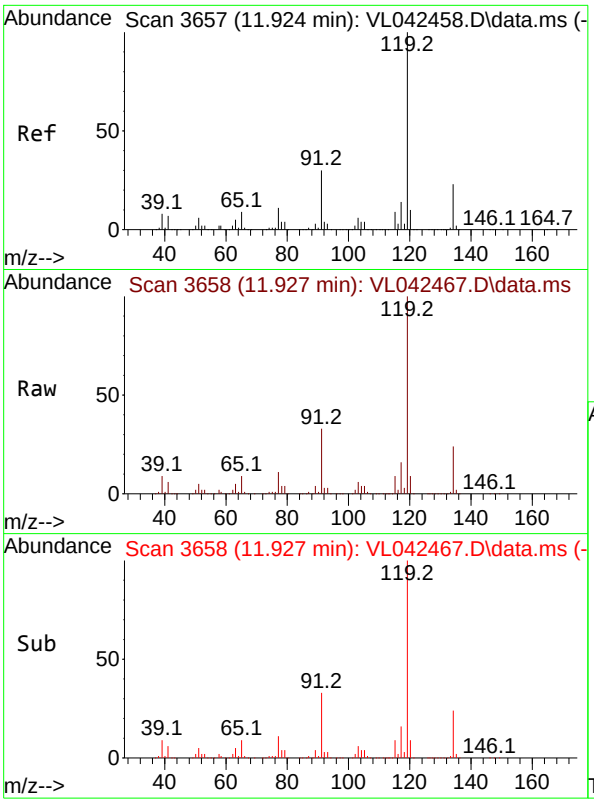


#68
1-Bromo-4-Fluorobenzene
Concen: 10.342 ppbv
RT: 10.380 min Scan# 3180
Delta R.T. 0.003 min
Lab File: VL042467.D
Acq: 01 May 2025 15:46

Tgt Ion: 95 Resp: 150522

Ion	Ratio	Lower	Upper
95	100		
174	55.5	42.7	64.1
175	4.2	3.6	5.4



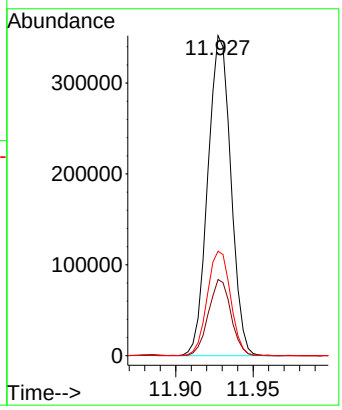


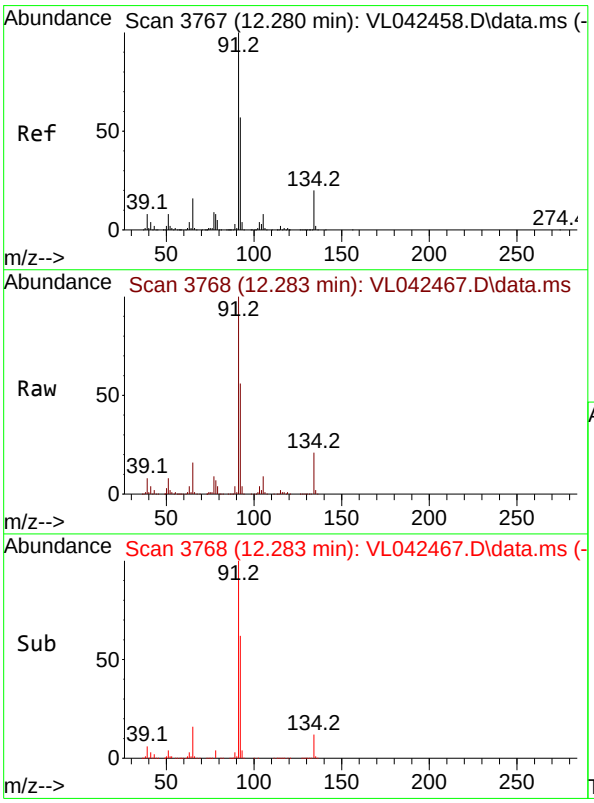
#69
p-Isopropyltoluene
Concen: 10.712 ppbv
RT: 11.927 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042467.D
Acq: 01 May 2025 15:46

Instrument :
MSVOA_L
ClientSampleId :
ICVVL050125

Tgt Ion:119 Resp: 363563

Ion	Ratio	Lower	Upper
119	100		
134	23.4	19.0	28.4
91	33.3	25.5	38.3

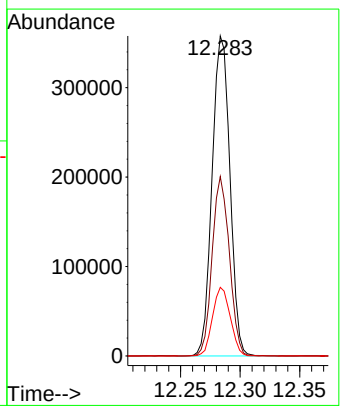


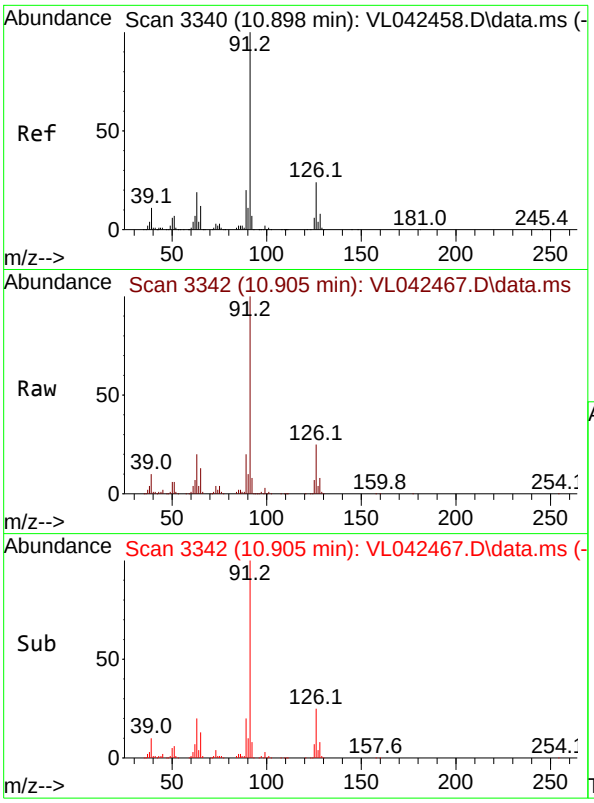


#70
n-Butylbenzene
Concen: 10.585 ppbv
RT: 12.283 min Scan# 3768
Delta R.T. 0.003 min
Lab File: VL042467.D
Acq: 01 May 2025 15:46

Tgt Ion: 91 Resp: 371369

Ion	Ratio	Lower	Upper
91	100		
92	54.2	44.0	66.0
134	21.3	16.8	25.2



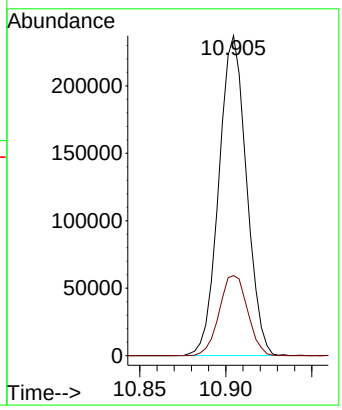


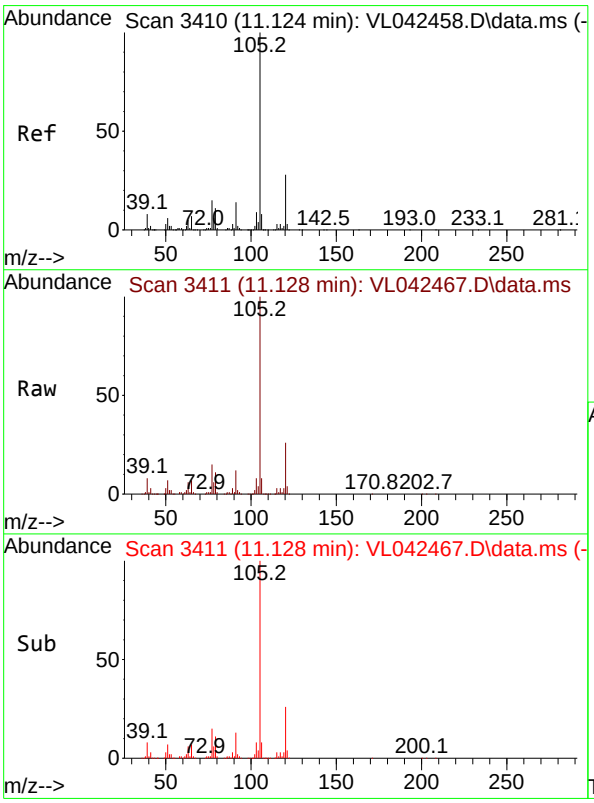
#71
2-Chlorotoluene
Concen: 10.599 ppbv
RT: 10.905 min Scan# 3
Delta R.T. 0.007 min
Lab File: VL042467.D
Acq: 01 May 2025 15:46

Instrument :
MSVOA_L
ClientSampleId :
ICVVL050125

Tgt Ion: 91 Resp: 264063

Ion	Ratio	Lower	Upper
91	100		
126	25.7	10.6	42.2

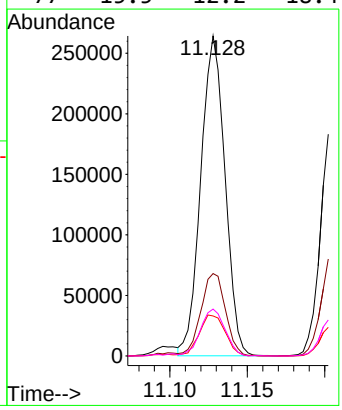


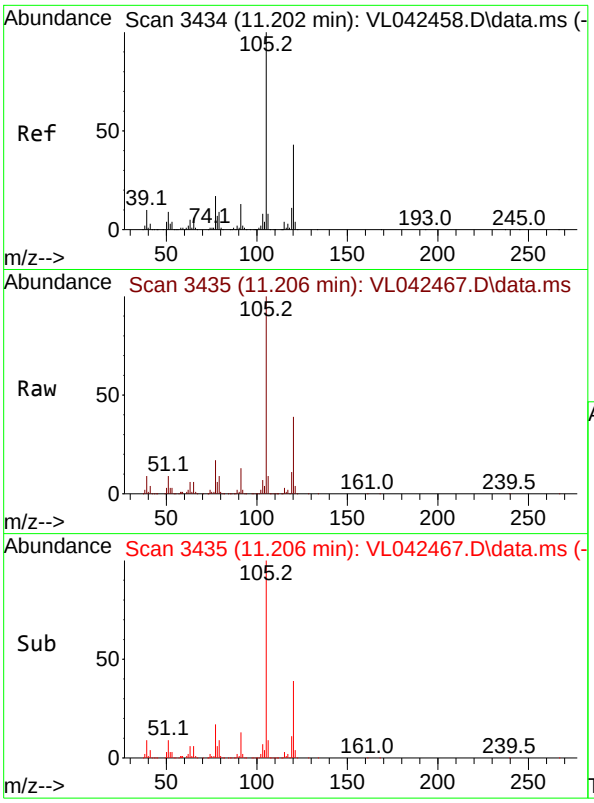


#72
4-Ethyltoluene
Concen: 11.069 ppbv
RT: 11.128 min Scan# 3411
Delta R.T. 0.003 min
Lab File: VL042467.D
Acq: 01 May 2025 15:46

Tgt Ion:105 Resp: 287375

Ion	Ratio	Lower	Upper
105	100		
120	27.1	22.0	33.0
91	14.3	11.2	16.8
77	15.5	12.2	18.4



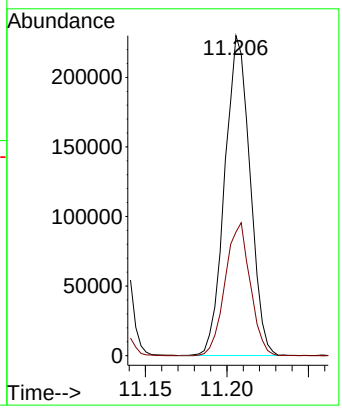


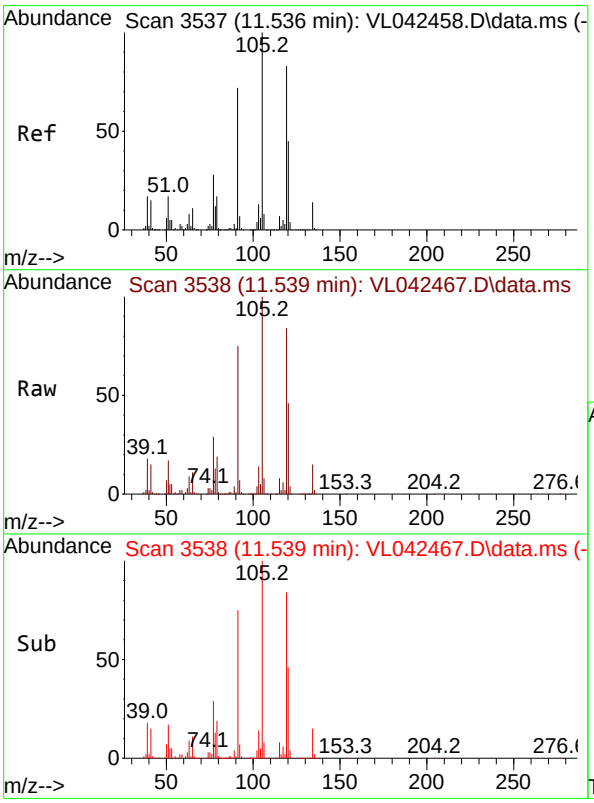
#73
1,3,5-Trimethylbenzene
Concen: 10.823 ppbv
RT: 11.206 min Scan# 34
Delta R.T. 0.003 min
Lab File: VL042467.D
Acq: 01 May 2025 15:46

Instrument :
MSVOA_L
ClientSampleId :
ICVVL050125

Tgt Ion:105 Resp: 247128

Ion	Ratio	Lower	Upper
105	100		
120	38.7	34.4	51.6

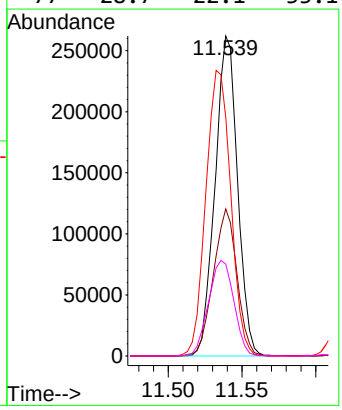


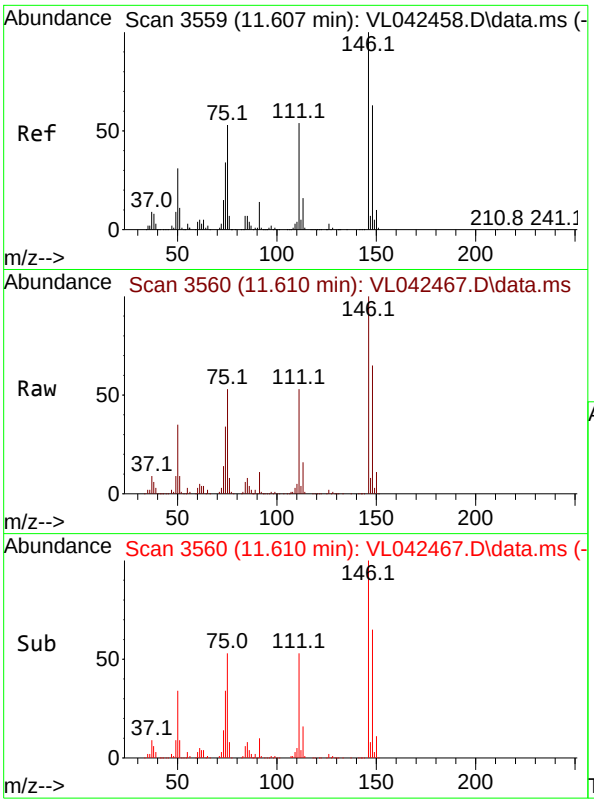


#74
1,2,4-Trimethylbenzene
Concen: 10.074 ppbv
RT: 11.539 min Scan# 3538
Delta R.T. 0.003 min
Lab File: VL042467.D
Acq: 01 May 2025 15:46

Tgt Ion:105 Resp: 278306

Ion	Ratio	Lower	Upper
105	100		
120	45.9	36.1	54.1
91	74.7	57.6	86.4
77	28.7	22.1	33.1



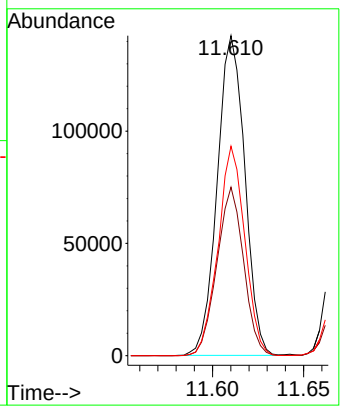


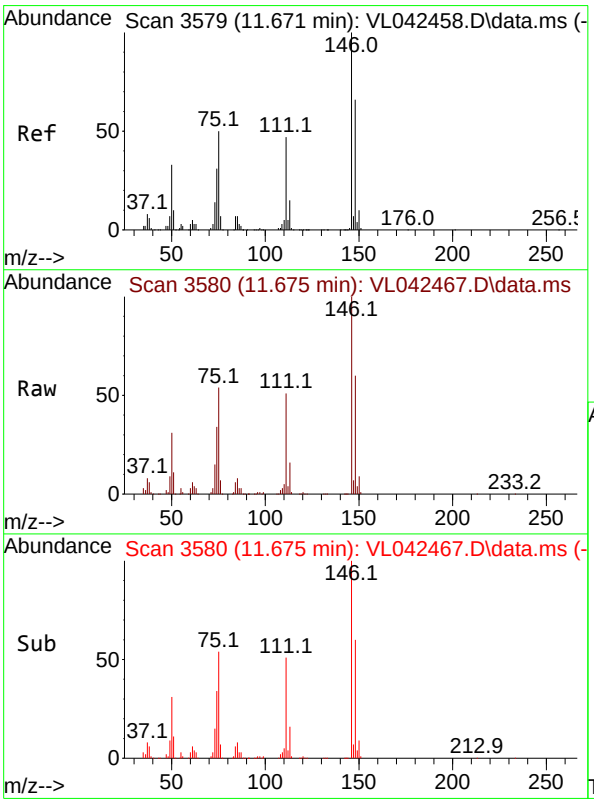
#75
1,3-Dichlorobenzene
Concen: 9.754 ppbv
RT: 11.610 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042467.D
Acq: 01 May 2025 15:46

Instrument :
MSVOA_L
ClientSampleId :
ICVVL050125

Tgt Ion:146 Resp: 150026

Ion	Ratio	Lower	Upper
146	100		
111	51.1	26.1	78.3
148	63.5	32.0	96.0

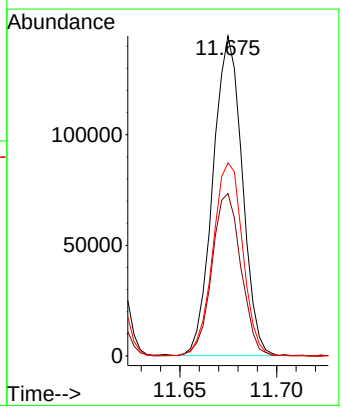


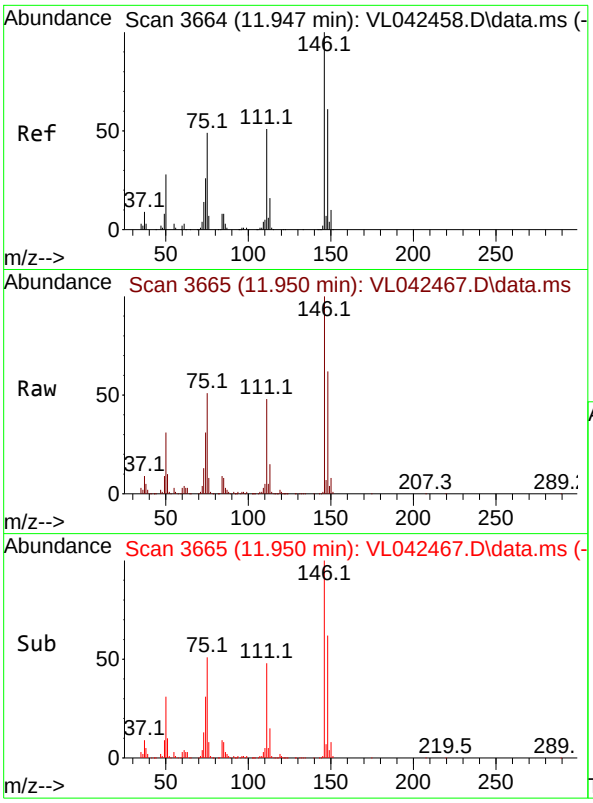


#76
1,4-Dichlorobenzene
Concen: 10.425 ppbv
RT: 11.675 min Scan# 3580
Delta R.T. 0.003 min
Lab File: VL042467.D
Acq: 01 May 2025 15:46

Tgt Ion:146 Resp: 151740

Ion	Ratio	Lower	Upper
146	100		
111	50.8	24.4	73.2
148	61.9	32.0	96.2



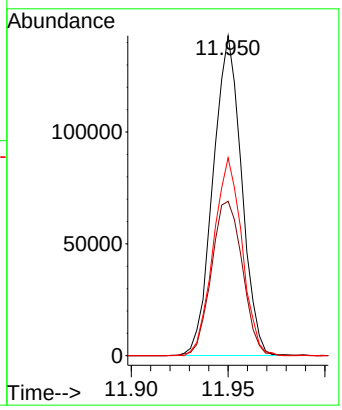


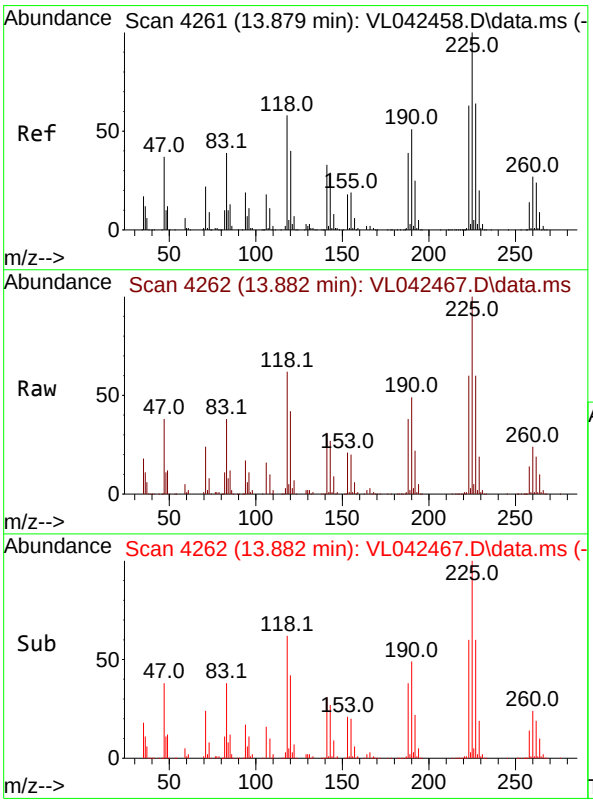
#77
1,2-Dichlorobenzene
Concen: 9.719 ppbv
RT: 11.950 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042467.D
Acq: 01 May 2025 15:46

Instrument :
MSVOA_L
ClientSampleId :
ICVVL050125

Tgt Ion:146 Resp: 146314

Ion	Ratio	Lower	Upper
146	100		
111	52.7	26.5	79.5
148	62.1	31.5	94.5

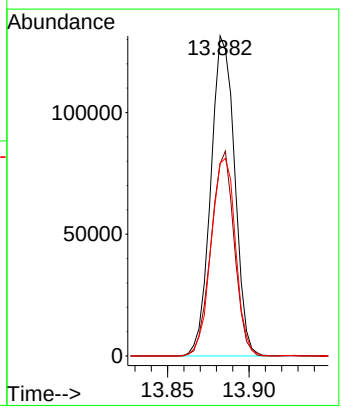


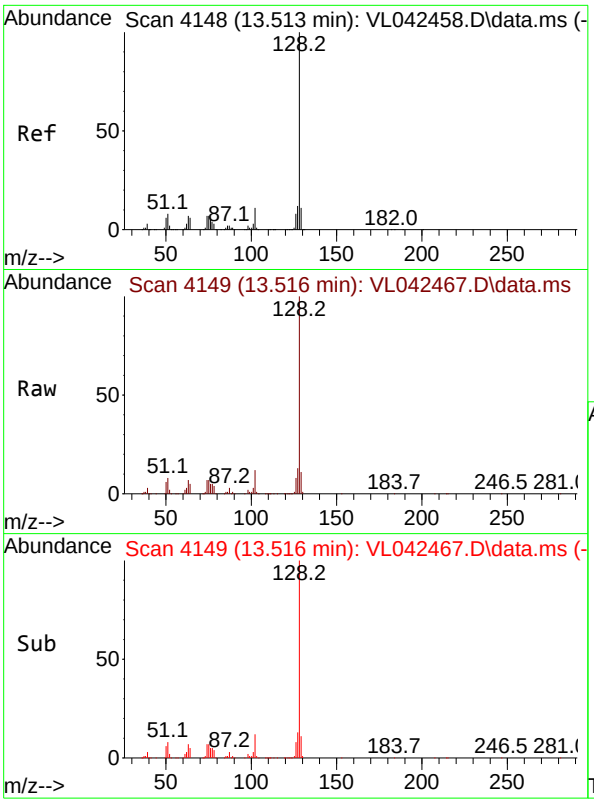


#78
Hexachloro-1,3-Butadiene
Concen: 8.893 ppbv
RT: 13.882 min Scan# 4262
Delta R.T. 0.003 min
Lab File: VL042467.D
Acq: 01 May 2025 15:46

Tgt Ion:225 Resp: 133688

Ion	Ratio	Lower	Upper
225	100		
223	62.2	50.2	75.4
227	63.5	51.2	76.8



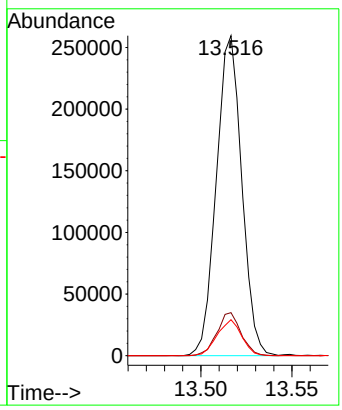


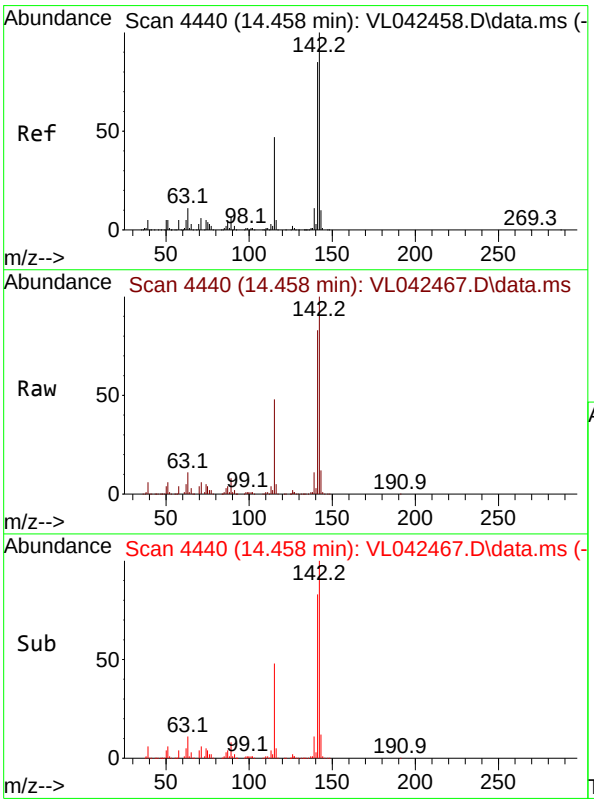
#79
Naphthalene
Concen: 10.806 ppbv
RT: 13.516 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL042467.D
Acq: 01 May 2025 15:46

Instrument :
MSVOA_L
ClientSampleId :
ICVVL050125

Tgt Ion:128 Resp: 251318

Ion	Ratio	Lower	Upper
128	100		
127	13.5	9.7	14.5
129	11.2	8.6	13.0

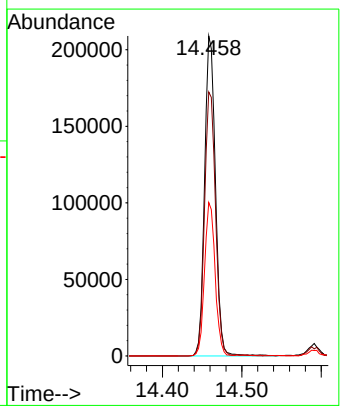


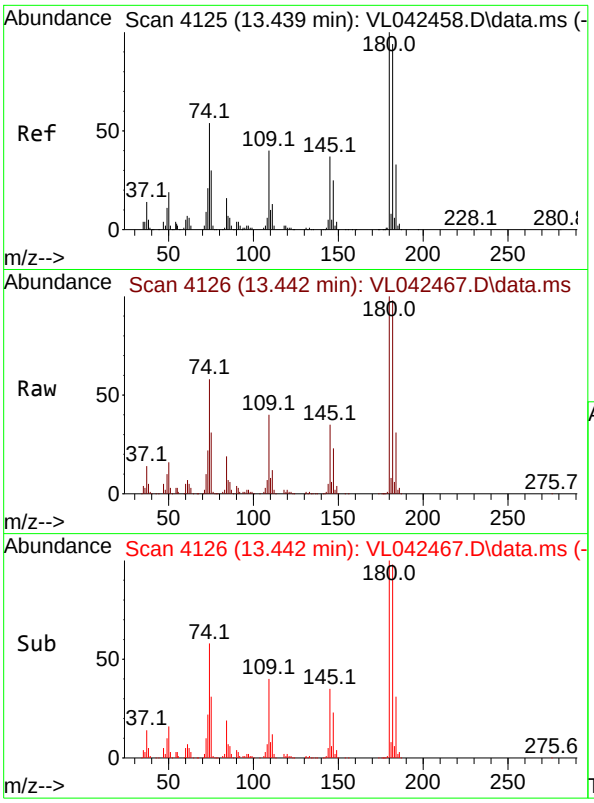


#80
Naphthalene,2-methyl-
Concen: 11.489 ppbv
RT: 14.458 min Scan# 4440
Delta R.T. 0.000 min
Lab File: VL042467.D
Acq: 01 May 2025 15:46

Tgt Ion:142 Resp: 198604

Ion	Ratio	Lower	Upper
142	100		
141	84.4	67.4	101.0
115	47.4	36.9	55.3



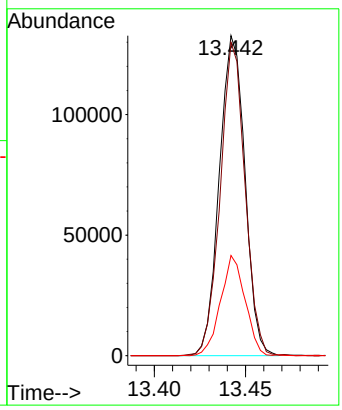


#81
1,2,4-Trichlorobenzene
Concen: 10.433 ppbv
RT: 13.442 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL042467.D
Acq: 01 May 2025 15:46

Instrument :
MSVOA_L
ClientSampleId :
ICVVL050125

Tgt Ion:180 Resp: 129406

Ion	Ratio	Lower	Upper
180	100		
182	94.7	74.6	111.8
184	30.1	24.9	37.3



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050525\
Data File : VL042469.D
Acq On : 05 May 2025 08:29
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Quant Time: May 06 01:38:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri May 02 03:16:31 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.790	49	74861	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	207859	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	180939	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.380	95	171319	10.212	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 102.100%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	125145	10.102	ppbv	99
3) Chlorodifluoromethane	1.476	51	122899	9.383	ppbv	99
4) Chloromethane	1.534	50	49599	9.579	ppbv	92
5) Vinyl Chloride	1.580	62	46672	8.953	ppbv	98
6) Bromomethane	1.667	94	26234	10.651	ppbv	92
7) Chloroethane	1.706	64	19310	10.032	ppbv	99
8) Dichlorotetrafluoroethane	1.554	85	104312	10.214	ppbv	99
9) Propene	1.486	41	39686	9.264	ppbv	98
10) Heptane	4.985	43	109506	9.854	ppbv	99
11) Trichlorofluoromethane	1.878	101	117806	10.305	ppbv	99
12) 1,1,2-Trichlorotrifluo...	2.140	101	92903	10.178	ppbv	99
13) Ethanol	1.722	45	6032	6.938	ppbv	97
14) Bromoethene	1.784	108	33877	10.053	ppbv	99
15) Acetone	1.835	43	110962	8.120	ppbv	99
16) 1,3-Butadiene	1.609	39	56863	9.434	ppbv	99
17) tert-Butyl alcohol	2.043	59	124285	10.323	ppbv	100
18) 1,1-Dichloroethene	2.036	96	42276	9.919	ppbv	96
19) Isopropyl Alcohol	1.887	45	73049	9.658	ppbv	99
20) Methylene Chloride	2.062	84	36341	8.845	ppbv	96
21) Allyl Chloride	2.098	41	87203	9.922	ppbv	98
22) trans-1,2-Dichloroethene	2.340	96	47159	9.474	ppbv	92
23) Vinyl Acetate	2.463	43	134402	10.305	ppbv	98
24) 1,1-Dichloroethane	2.412	63	97677	9.619	ppbv	100
25) Ethyl Acetate	2.839	43	212175	9.697	ppbv	100
26) Hexane	2.826	57	95290	9.996	ppbv	95
27) Carbon Disulfide	2.153	76	120890	10.867	ppbv #	92
28) Methyl tert-Butyl Ether	2.444	73	54017	9.432	ppbv	96
29) Chloroform	2.852	83	173954	9.738	ppbv	97
30) Cyclohexane	3.858	84	78668	9.871	ppbv	98
31) cis-1,2-Dichloroethene	2.722	61	107420	9.659	ppbv	96
32) 1,1,1-Trichloroethane	3.370	97	184899	9.540	ppbv	99
34) 2-Butanone	2.560	43	134813	8.967	ppbv	93
35) Carbon Tetrachloride	3.765	117	191095	10.120	ppbv	97
36) Benzene	3.661	78	192975	9.838	ppbv	96
37) 1,2-Dichloroethane	3.221	62	146792	9.710	ppbv	99
38) Trichloroethene	4.554	130	76779	10.264	ppbv	89
39) 1,2-Dichloropropane	4.318	63	67421	9.181	ppbv	93
40) 1,4-Dioxane	4.590	88	29648	8.622	ppbv #	100
41) Tetrahydrofuran	3.059	42	66188	9.263	ppbv	97
42) Bromodichloromethane	4.496	83	191130	10.347	ppbv	98
43) Methyl Methacrylate	4.881	69	76368	10.433	ppbv	99
44) 2,2,4-Trimethylpentane	4.645	57	312811	9.838	ppbv	100
45) t-1,3-Dichloropropene	6.422	75	105437	10.980	ppbv	93

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050525\
Data File : VL042469.D
Acq On : 05 May 2025 08:29
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Quant Time: May 06 01:38:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri May 02 03:16:31 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) cis-1,3-Dichloropropene	5.609	75	117796	10.321	ppbv		96
47) 1,1,2-Trichloroethane	6.590	97	77722	9.651	ppbv		90
48) Dibromochloromethane	7.393	129	143524	10.556	ppbv		97
49) Bromoform	9.490	173	118610	10.402	ppbv		99
50) 4-Methyl-2-Pentanone	5.758	43	183038	9.625	ppbv		98
51) 2-Hexanone	7.445	43	147526	9.703	ppbv	#	97
52) Tetrachloroethene	8.231	164	67482	9.038	ppbv		95
53) Toluene	6.940	91	220871	10.638	ppbv		98
54) 1,2-Dibromoethane	7.658	107	119914	9.739	ppbv		96
56) 1,1,1,2-Tetrachloroethane	8.930	131	106249	9.942	ppbv		99
57) Chlorobenzene	8.927	112	168792	9.284	ppbv		96
58) Ethyl Benzene	9.361	91	317094	10.487	ppbv		100
59) m/p-Xylene	9.535	91	265713	10.482	ppbv	#	33
60) o-Xylene	9.969	91	267806	10.552	ppbv		100
61) Styrene	9.879	104	105698	11.160	ppbv		97
62) Isopropylbenzene	10.545	105	385788	10.538	ppbv		99
63) 1,1,2,2-Tetrachloroethane	9.966	83	159883	9.137	ppbv		99
64) n-propylbenzene	10.992	120	93317	10.429	ppbv		98
65) tert-Butylbenzene	11.536	119	349071	10.684	ppbv		99
66) Benzyl Chloride	11.620	91	50060	13.257	ppbv		96
67) sec-Butylbenzene	11.772	105	490679	10.568	ppbv		99
69) p-Isopropyltoluene	11.931	119	417116	10.663	ppbv		99
70) n-Butylbenzene	12.287	91	427083	10.561	ppbv		99
71) 2-Chlorotoluene	10.905	91	301623	10.504	ppbv		98
72) 4-Ethyltoluene	11.128	105	326323	10.905	ppbv		100
73) 1,3,5-Trimethylbenzene	11.209	105	283998	10.791	ppbv		98
74) 1,2,4-Trimethylbenzene	11.542	105	320216	10.056	ppbv		94
75) 1,3-Dichlorobenzene	11.610	146	171827	9.693	ppbv		99
76) 1,4-Dichlorobenzene	11.675	146	177262	10.566	ppbv		99
77) 1,2-Dichlorobenzene	11.950	146	167623	9.660	ppbv		99
78) Hexachloro-1,3-Butadiene	13.885	225	154431	8.913	ppbv		100
79) Naphthalene	13.517	128	294069	10.970	ppbv		98
80) Naphthalene,2-methyl-	14.462	142	236563	11.873	ppbv		99
81) 1,2,4-Trichlorobenzene	13.445	180	151252	10.580	ppbv		99

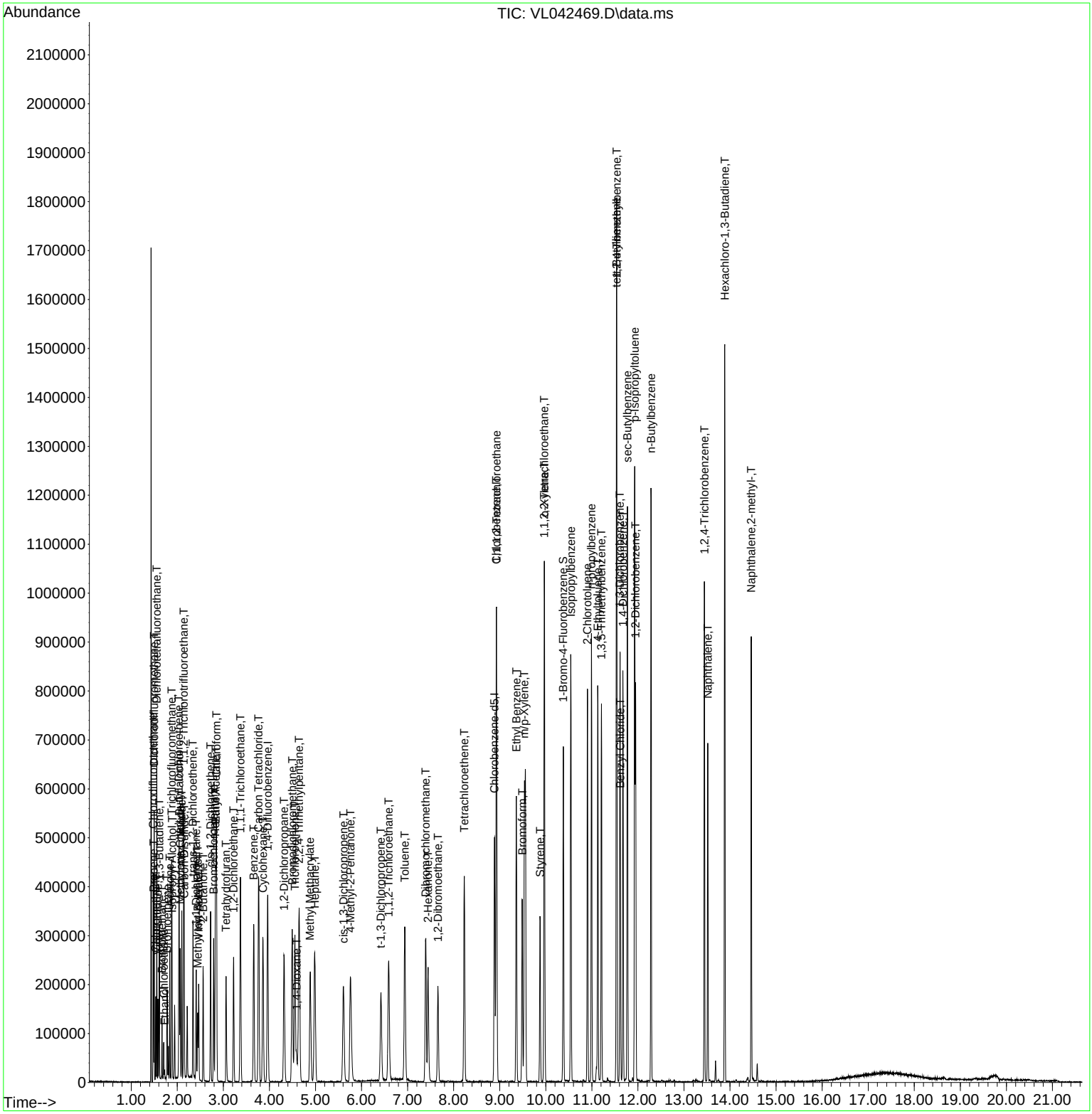
(#) = qualifier out of range (m) = manual integration (+) = signals summed

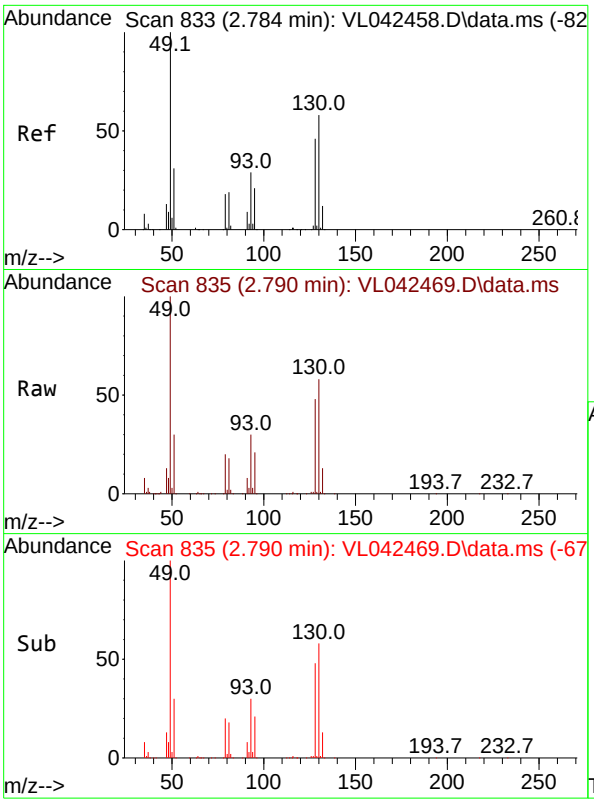
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050525\
Data File : VL042469.D
Acq On : 05 May 2025 08:29
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Quant Time: May 06 01:38:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri May 02 03:16:31 2025
Response via : Initial Calibration



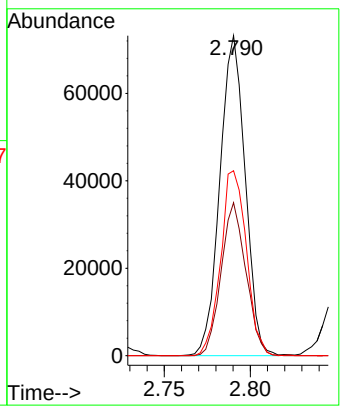


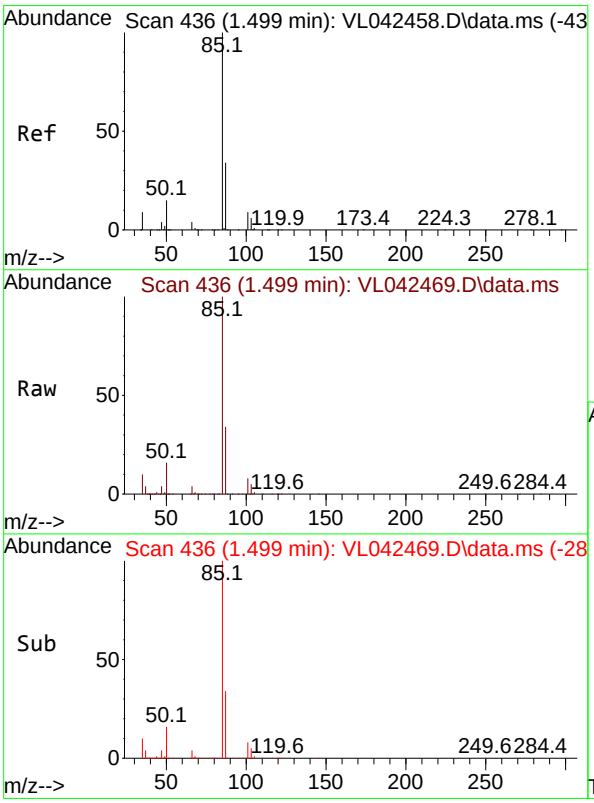
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 8
Delta R.T. 0.006 min
Lab File: VL042469.D
Acq: 05 May 2025 08:29

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 49 Resp: 74861

Ion	Ratio	Lower	Upper
49	100		
128	46.8	23.3	69.9
130	58.9	29.5	88.6

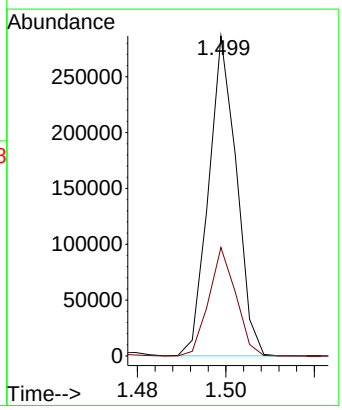


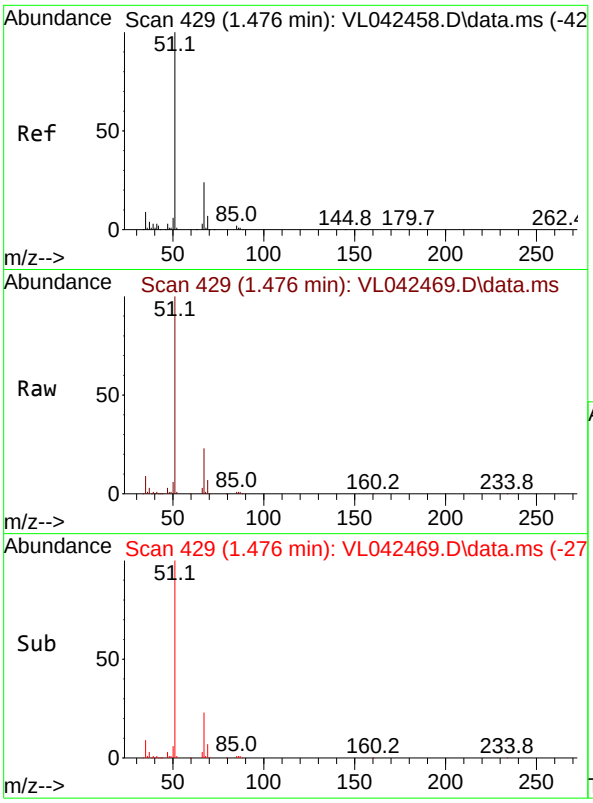


#2
Dichlorodifluoromethane
Concen: 10.102 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.000 min
Lab File: VL042469.D
Acq: 05 May 2025 08:29

Tgt Ion: 85 Resp: 125145

Ion	Ratio	Lower	Upper
85	100		
87	33.9	26.9	40.3



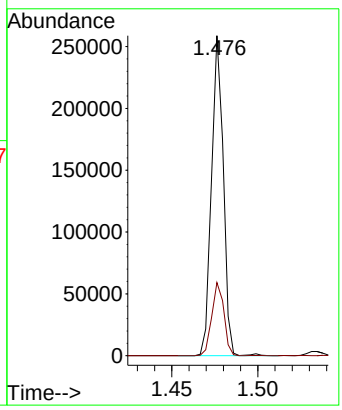


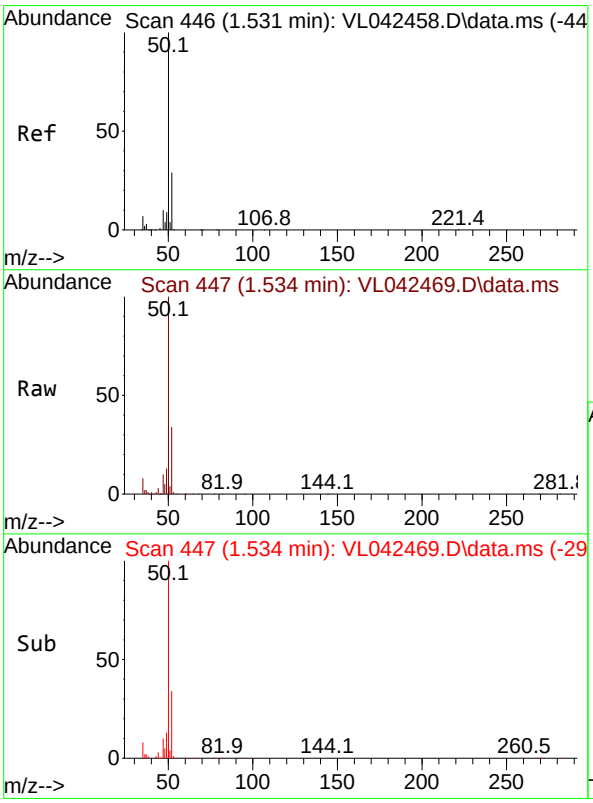
#3
Chlorodifluoromethane
Concen: 9.383 ppbv
RT: 1.476 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042469.D
Acq: 05 May 2025 08:29

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 51 Resp: 122899

Ion	Ratio	Lower	Upper
51	100		
67	23.6	18.4	27.6

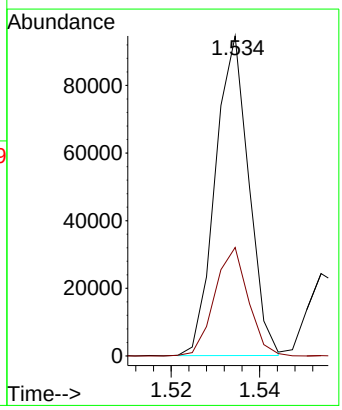


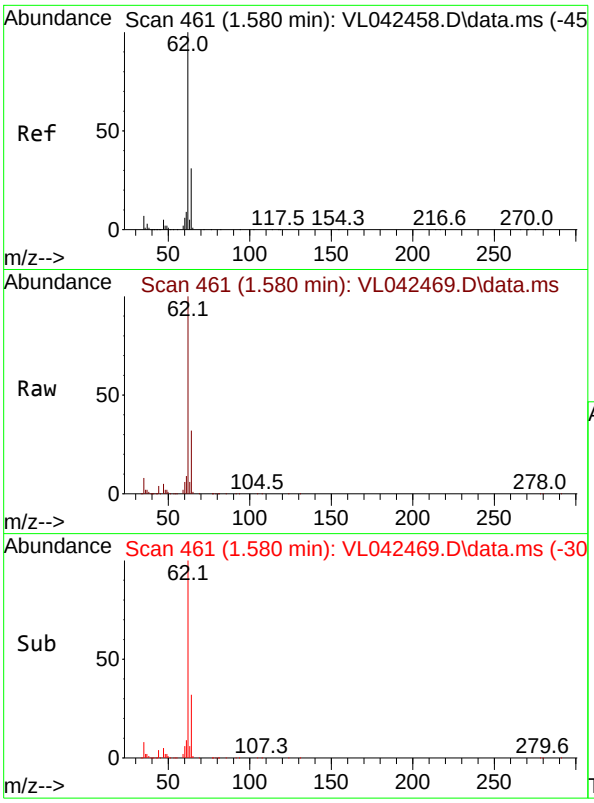


#4
Chloromethane
Concen: 9.579 ppbv
RT: 1.534 min Scan# 447
Delta R.T. 0.003 min
Lab File: VL042469.D
Acq: 05 May 2025 08:29

Tgt Ion: 50 Resp: 49599

Ion	Ratio	Lower	Upper
50	100		
52	33.7	23.5	35.3



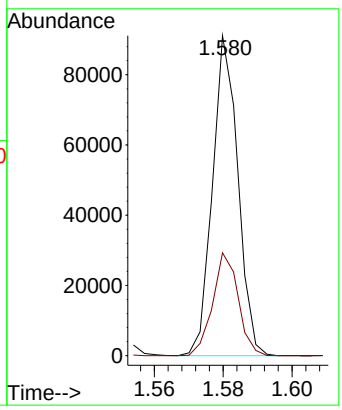


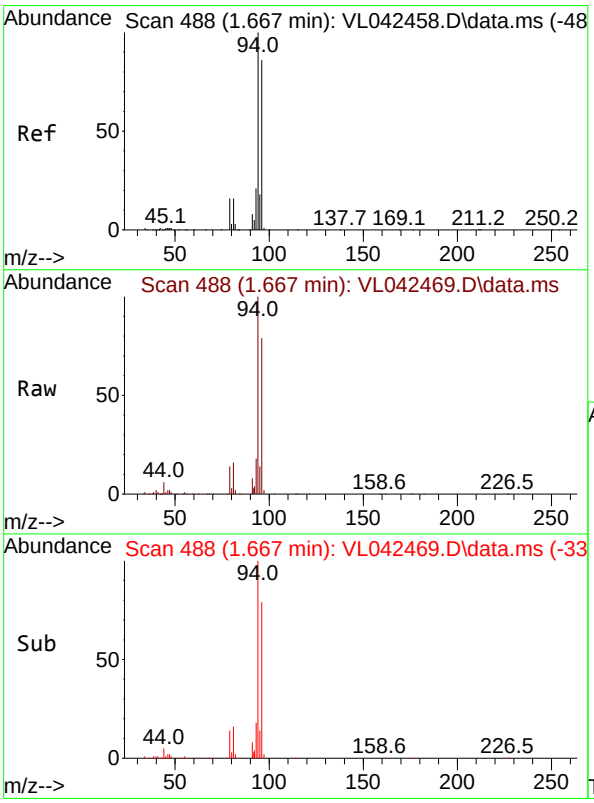
#5
Vinyl Chloride
Concen: 8.953 ppbv
RT: 1.580 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042469.D
Acq: 05 May 2025 08:29

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 62 Resp: 46672

Ion	Ratio	Lower	Upper
62	100		
64	32.2	24.9	37.3

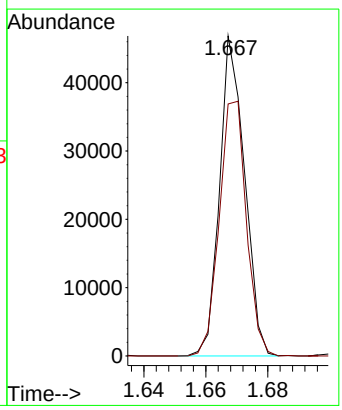


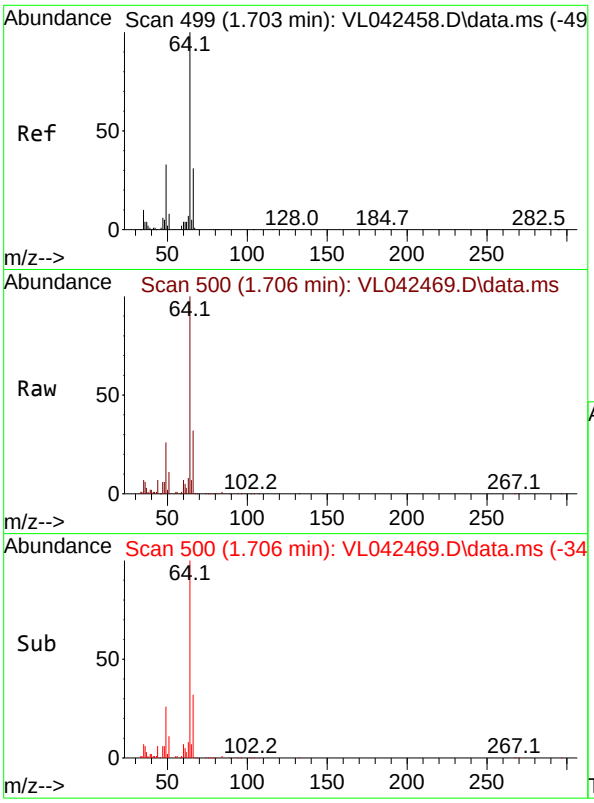


#6
Bromomethane
Concen: 10.651 ppbv
RT: 1.667 min Scan# 488
Delta R.T. 0.000 min
Lab File: VL042469.D
Acq: 05 May 2025 08:29

Tgt Ion: 94 Resp: 26234

Ion	Ratio	Lower	Upper
94	100		
96	78.7	68.8	103.2



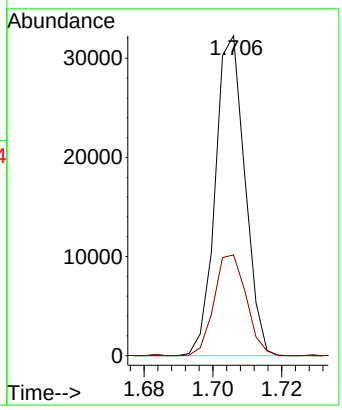


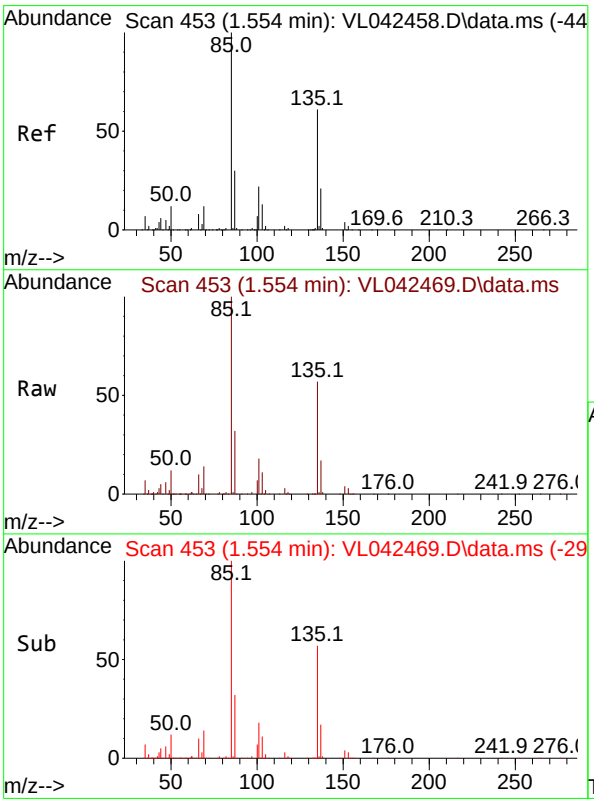
#7
Chloroethane
Concen: 10.032 ppbv
RT: 1.706 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042469.D
Acq: 05 May 2025 08:29

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 64 Resp: 19310

Ion	Ratio	Lower	Upper
64	100		
66	31.5	25.0	37.4

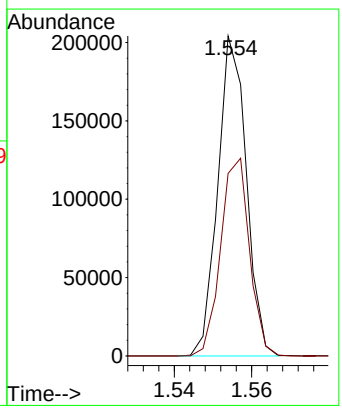


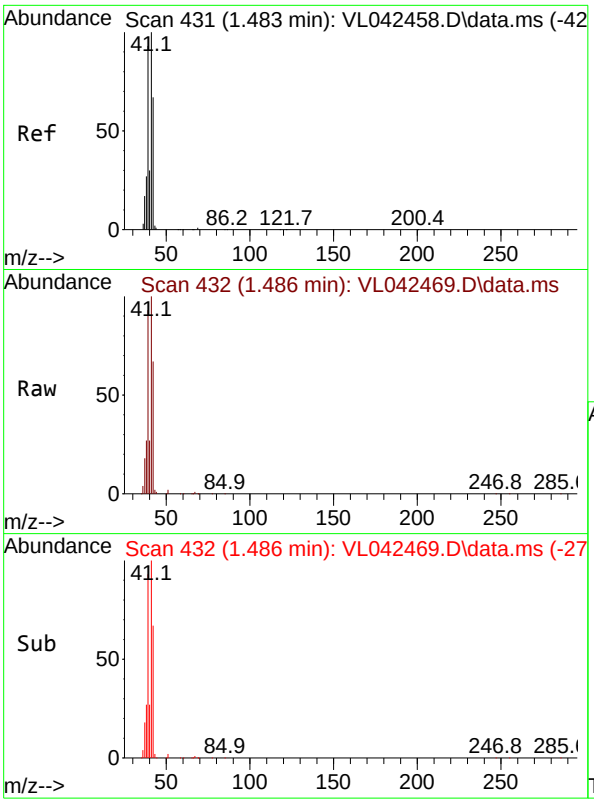


#8
Dichlorotetrafluoroethane
Concen: 10.214 ppbv
RT: 1.554 min Scan# 453
Delta R.T. 0.000 min
Lab File: VL042469.D
Acq: 05 May 2025 08:29

Tgt Ion: 85 Resp: 104312

Ion	Ratio	Lower	Upper
85	100		
135	62.7	49.8	74.8



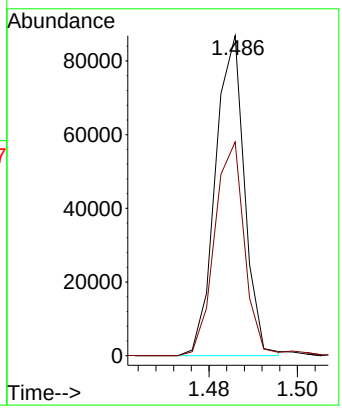


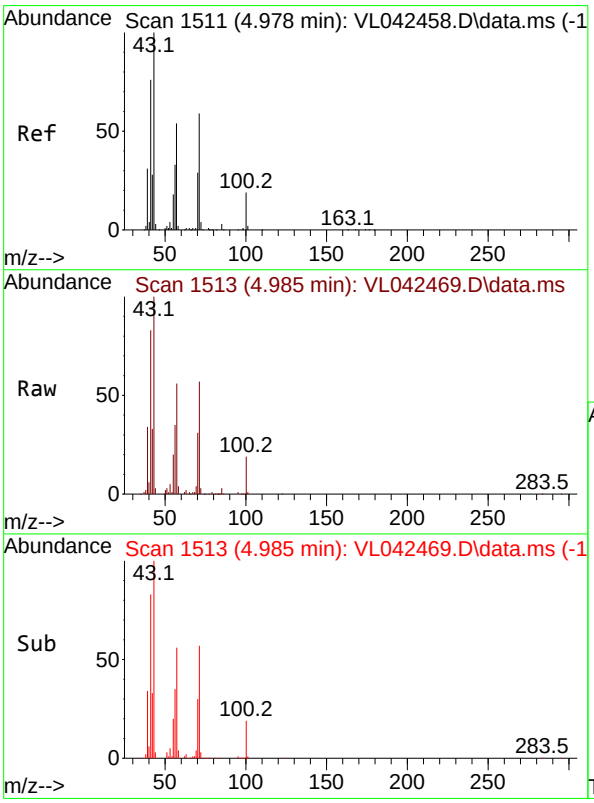
#9
Propene
Concen: 9.264 ppbv
RT: 1.486 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL042469.D
Acq: 05 May 2025 08:29

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 41 Resp: 39686

Ion	Ratio	Lower	Upper
41	100		
42	69.8	54.3	81.5

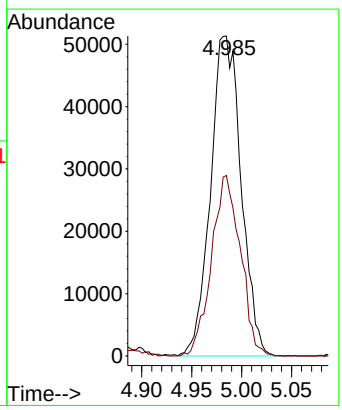


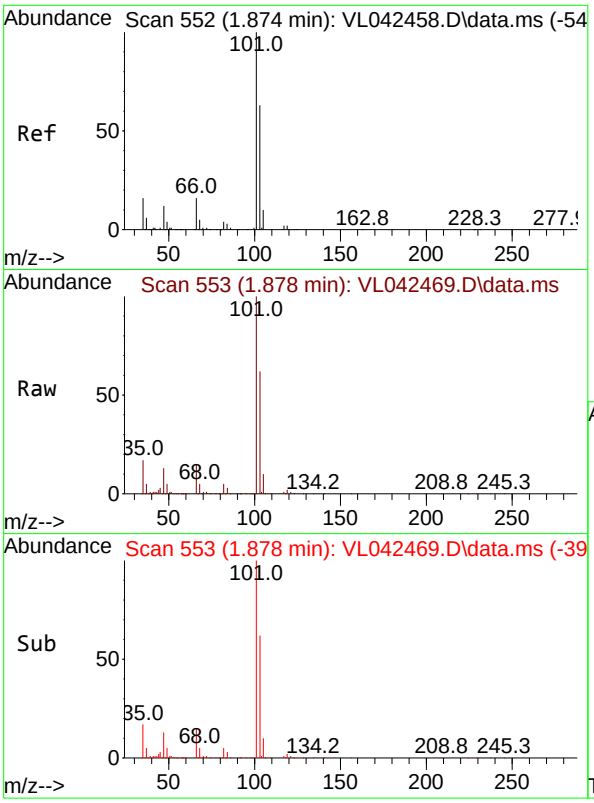


#10
Heptane
Concen: 9.854 ppbv
RT: 4.985 min Scan# 1513
Delta R.T. 0.007 min
Lab File: VL042469.D
Acq: 05 May 2025 08:29

Tgt Ion: 43 Resp: 109506

Ion	Ratio	Lower	Upper
43	100		
57	53.2	41.8	62.8



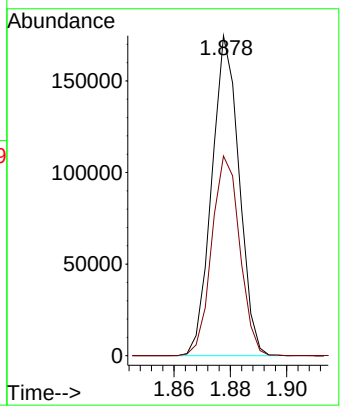


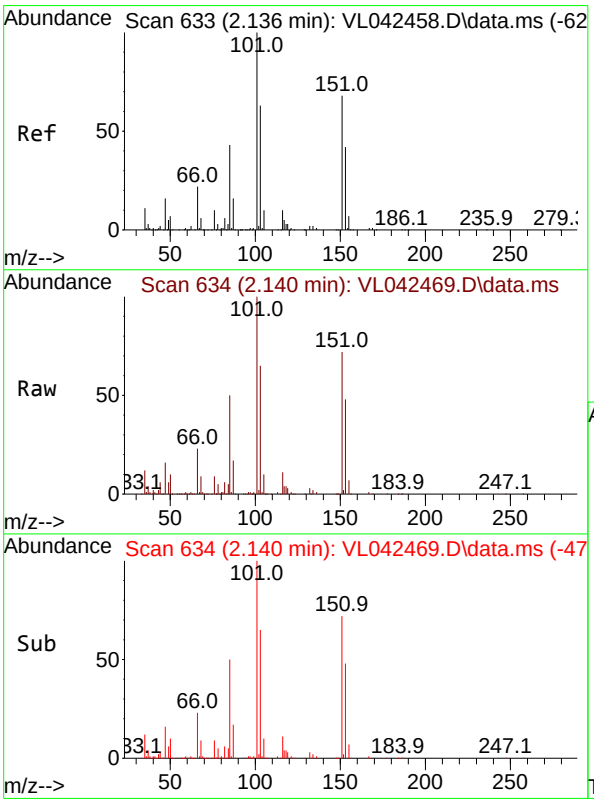
#11
Trichlorofluoromethane
Concen: 10.305 ppbv
RT: 1.878 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042469.D
Acq: 05 May 2025 08:29

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion:101 Resp: 117806

Ion	Ratio	Lower	Upper
101	100		
103	62.4	50.6	76.0

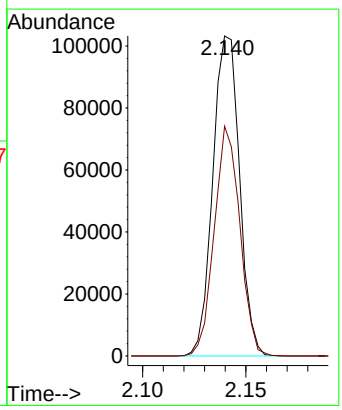


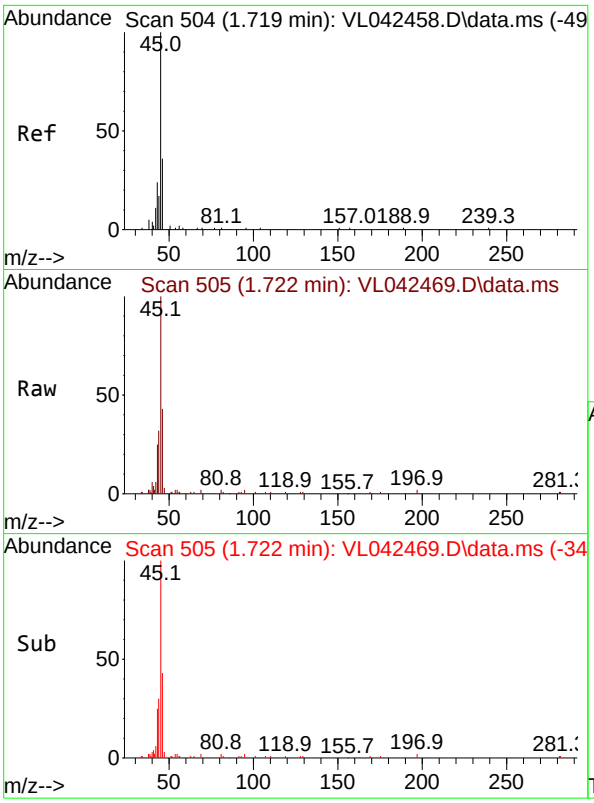


#12
1,1,2-Trichlorotrifluoroethane
Concen: 10.178 ppbv
RT: 2.140 min Scan# 634
Delta R.T. 0.003 min
Lab File: VL042469.D
Acq: 05 May 2025 08:29

Tgt Ion:101 Resp: 92903

Ion	Ratio	Lower	Upper
101	100		
151	68.7	54.6	82.0



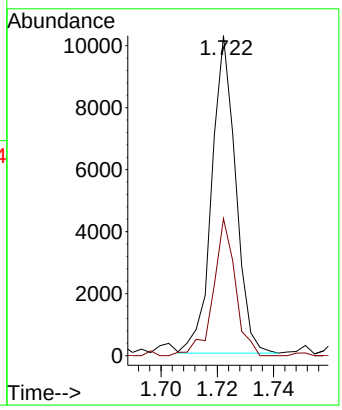


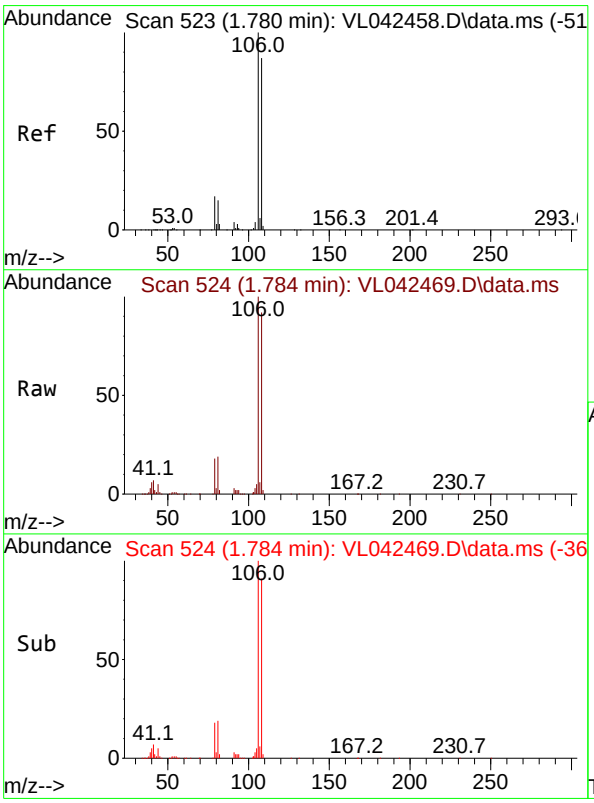
#13
Ethanol
Concen: 6.938 ppbv
RT: 1.722 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042469.D
Acq: 05 May 2025 08:29

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 45 Resp: 6032

Ion	Ratio	Lower	Upper
45	100		
46	40.0	15.3	61.1

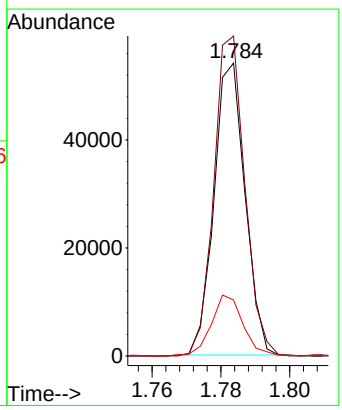


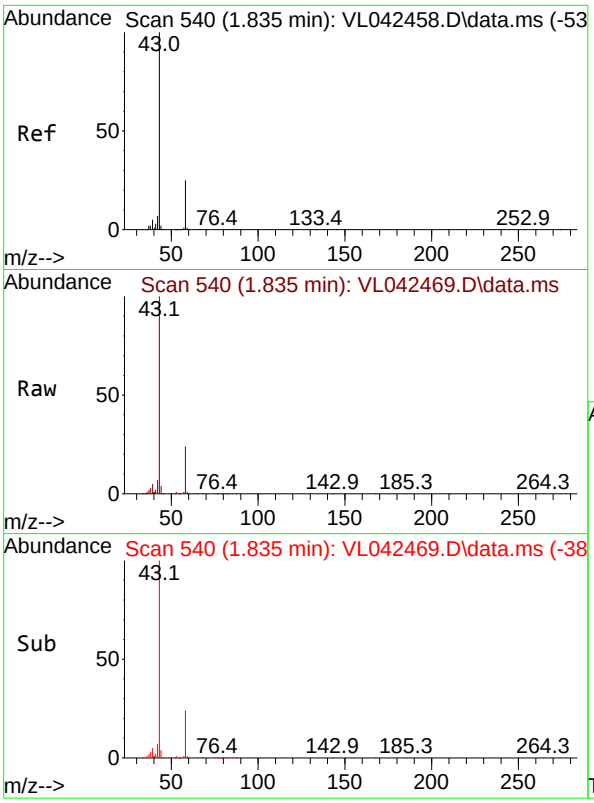


#14
Bromoethene
Concen: 10.053 ppbv
RT: 1.784 min Scan# 524
Delta R.T. 0.003 min
Lab File: VL042469.D
Acq: 05 May 2025 08:29

Tgt Ion:108 Resp: 33877

Ion	Ratio	Lower	Upper
108	100		
106	109.6	88.8	133.2
79	21.8	17.1	25.7



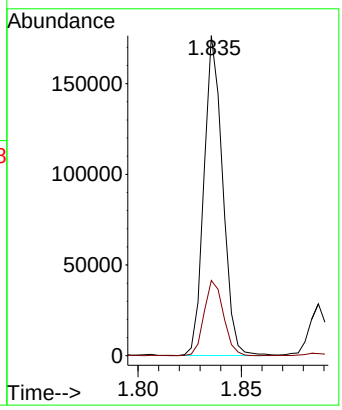


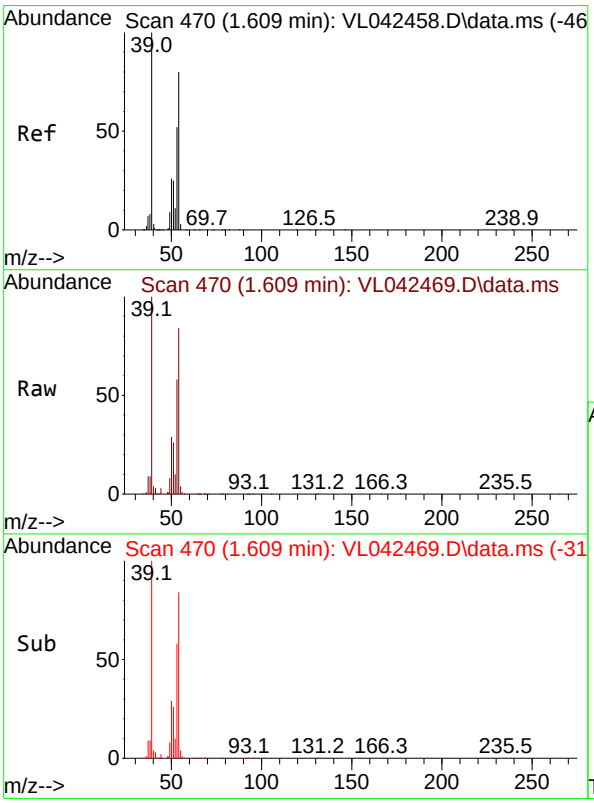
#15
Acetone
Concen: 8.120 ppbv
RT: 1.835 min Scan# 54
Delta R.T. 0.000 min
Lab File: VL042469.D
Acq: 05 May 2025 08:29

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 43 Resp: 110962

Ion	Ratio	Lower	Upper
43	100		
58	24.4	19.8	29.8

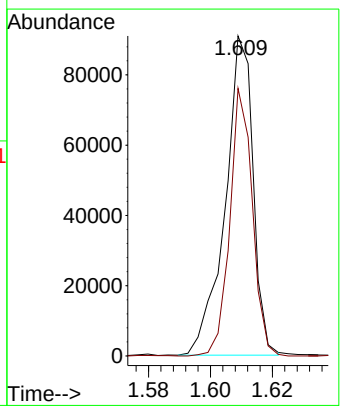


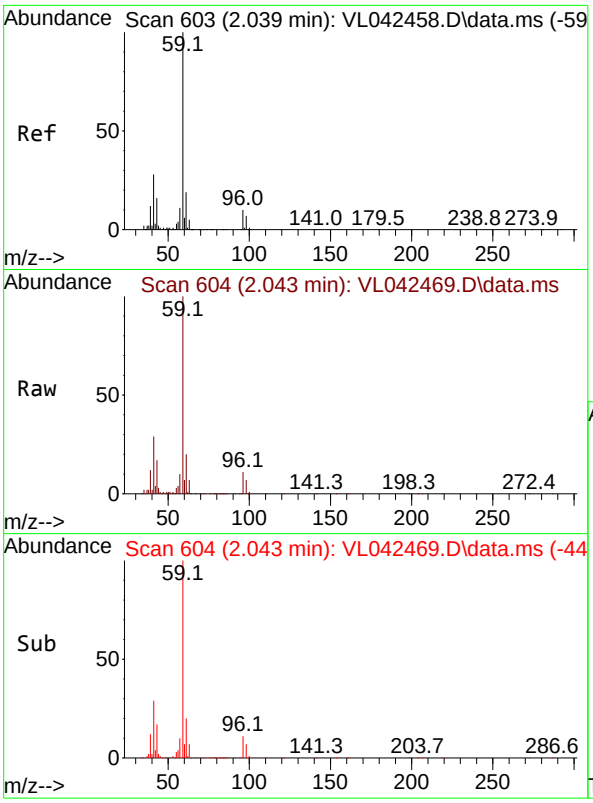


#16
1,3-Butadiene
Concen: 9.434 ppbv
RT: 1.609 min Scan# 470
Delta R.T. 0.000 min
Lab File: VL042469.D
Acq: 05 May 2025 08:29

Tgt Ion: 39 Resp: 56863

Ion	Ratio	Lower	Upper
39	100		
54	67.8	55.2	82.8



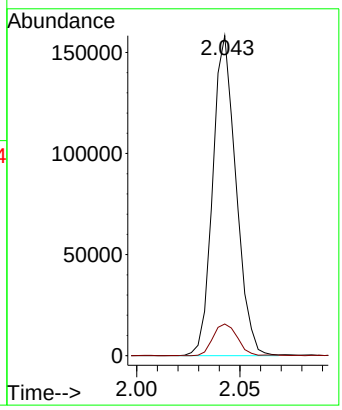


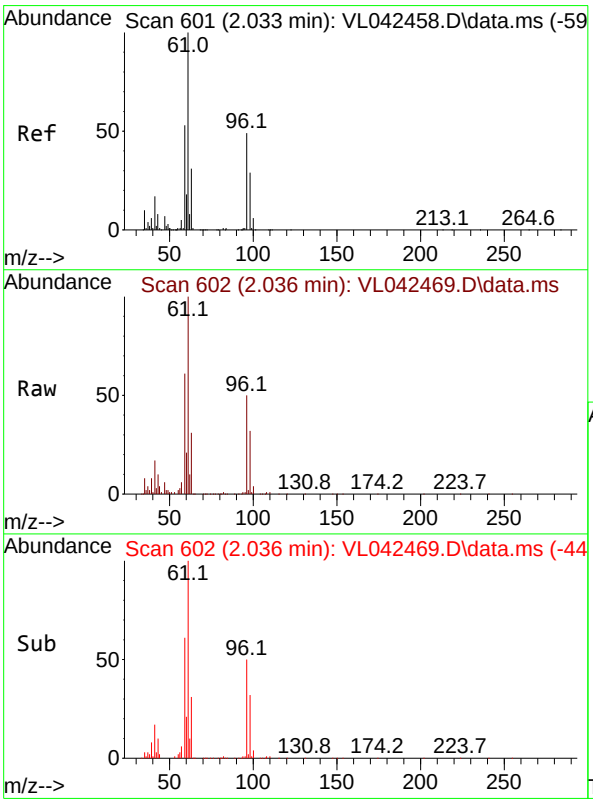
#17
tert-Butyl alcohol
Concen: 10.323 ppbv
RT: 2.043 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL042469.D
Acq: 05 May 2025 08:29

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 59 Resp: 124285

Ion	Ratio	Lower	Upper
59	100		
57	10.5	8.3	12.5

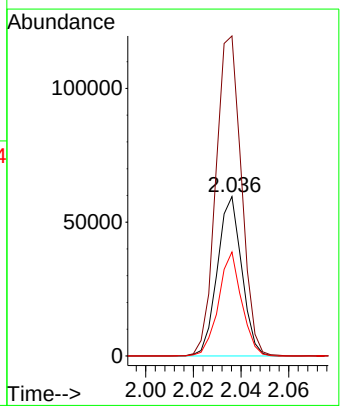


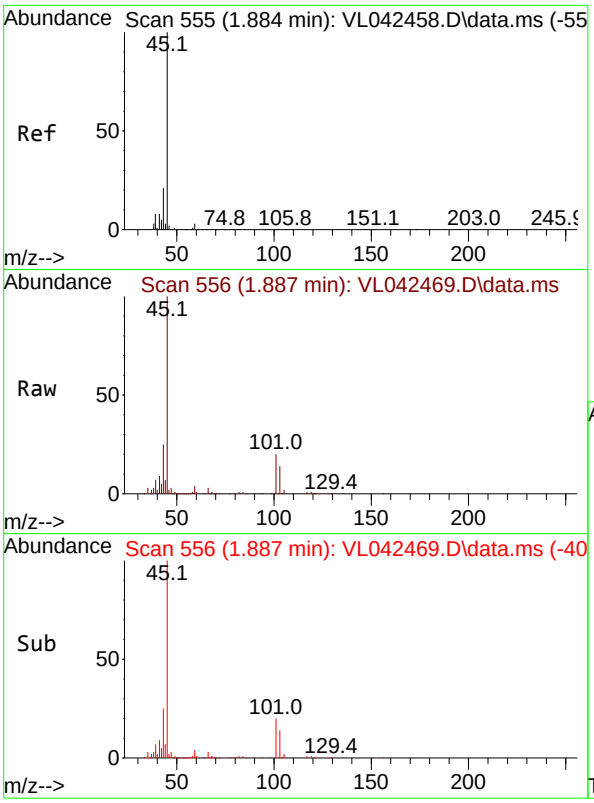


#18
1,1-Dichloroethene
Concen: 9.919 ppbv
RT: 2.036 min Scan# 602
Delta R.T. 0.003 min
Lab File: VL042469.D
Acq: 05 May 2025 08:29

Tgt Ion: 96 Resp: 42276

Ion	Ratio	Lower	Upper
96	100		
61	200.7	164.9	247.3
98	65.2	48.2	72.2



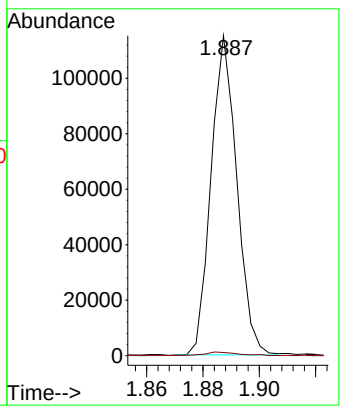


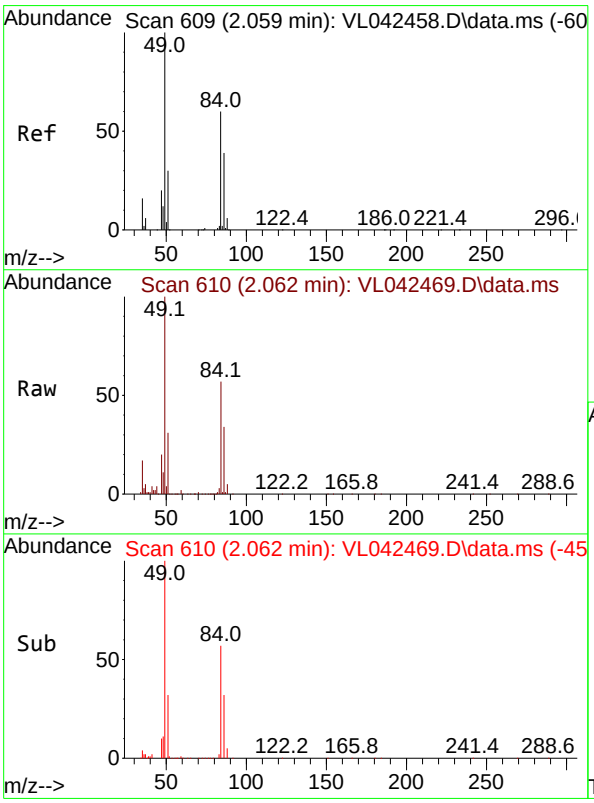
#19
Isopropyl Alcohol
Concen: 9.658 ppbv
RT: 1.887 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042469.D
Acq: 05 May 2025 08:29

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 45 Resp: 73049

Ion	Ratio	Lower	Upper
45	100		
58	1.6	1.6	2.4

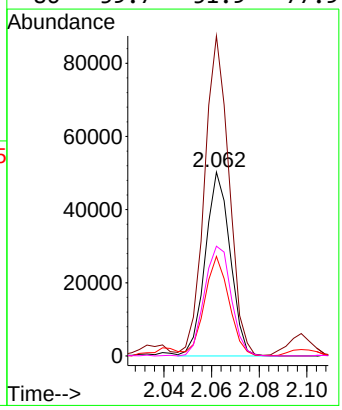


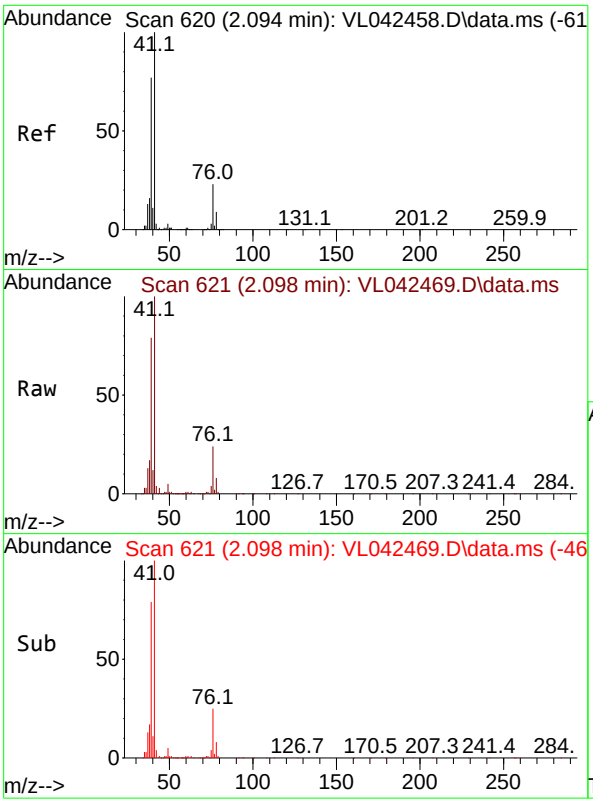


#20
Methylene Chloride
Concen: 8.845 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.003 min
Lab File: VL042469.D
Acq: 05 May 2025 08:29

Tgt Ion: 84 Resp: 36341

Ion	Ratio	Lower	Upper
84	100		
49	172.1	133.9	200.9
51	53.8	41.0	61.6
86	59.7	51.9	77.9



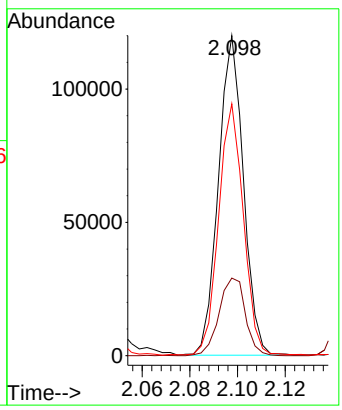


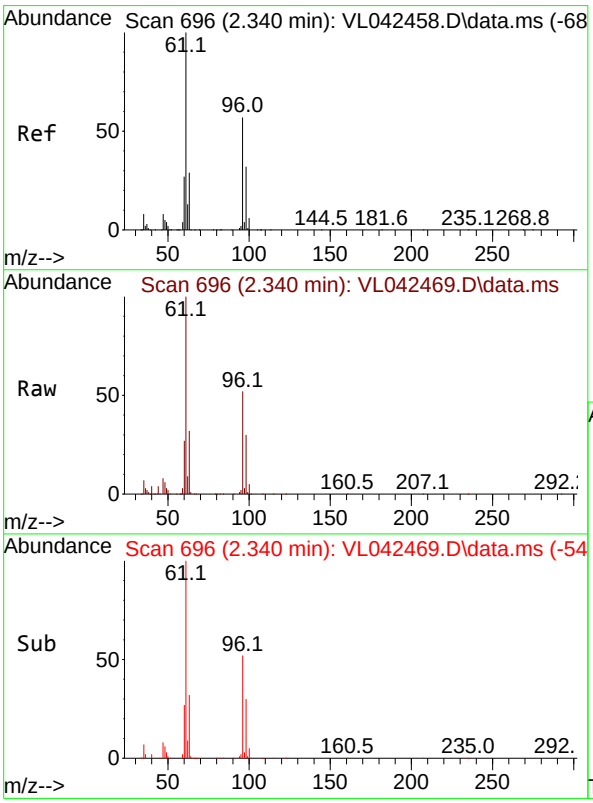
#21
Allyl Chloride
Concen: 9.922 ppbv
RT: 2.098 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL042469.D
Acq: 05 May 2025 08:29

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 41 Resp: 87203

Ion	Ratio	Lower	Upper
41	100		
76	25.7	19.6	29.4
39	77.6	61.0	91.4

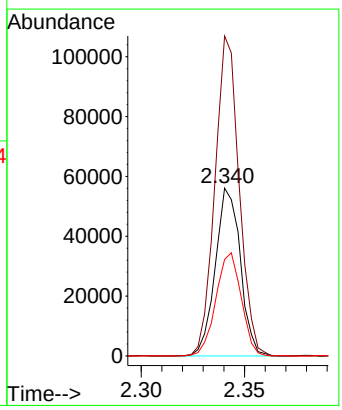


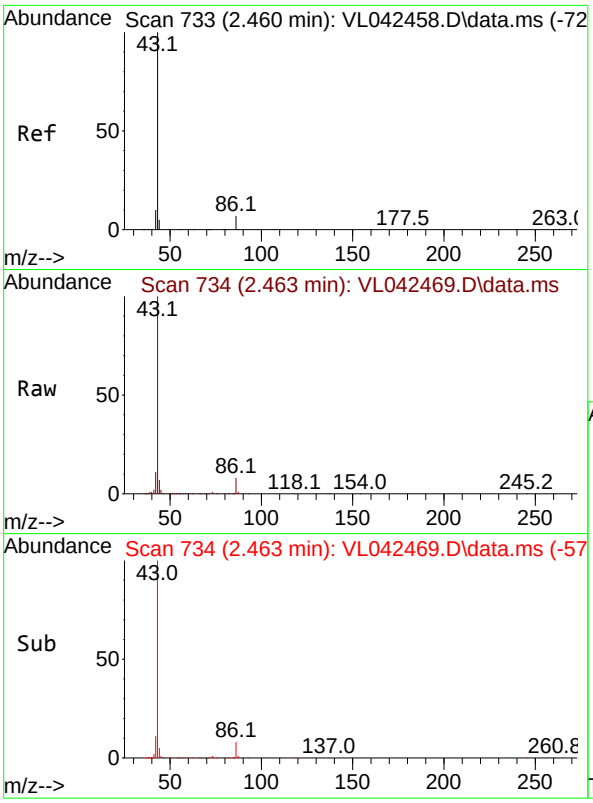


#22
trans-1,2-Dichloroethene
Concen: 9.474 ppbv
RT: 2.340 min Scan# 696
Delta R.T. 0.000 min
Lab File: VL042469.D
Acq: 05 May 2025 08:29

Tgt Ion: 96 Resp: 47159

Ion	Ratio	Lower	Upper
96	100		
61	190.7	141.8	212.6
98	57.5	45.0	67.6



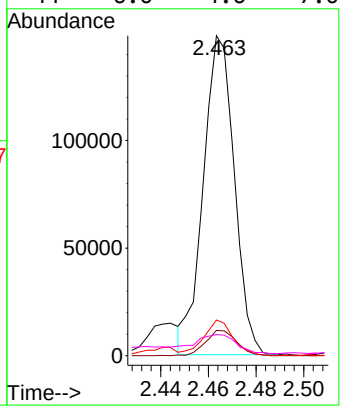


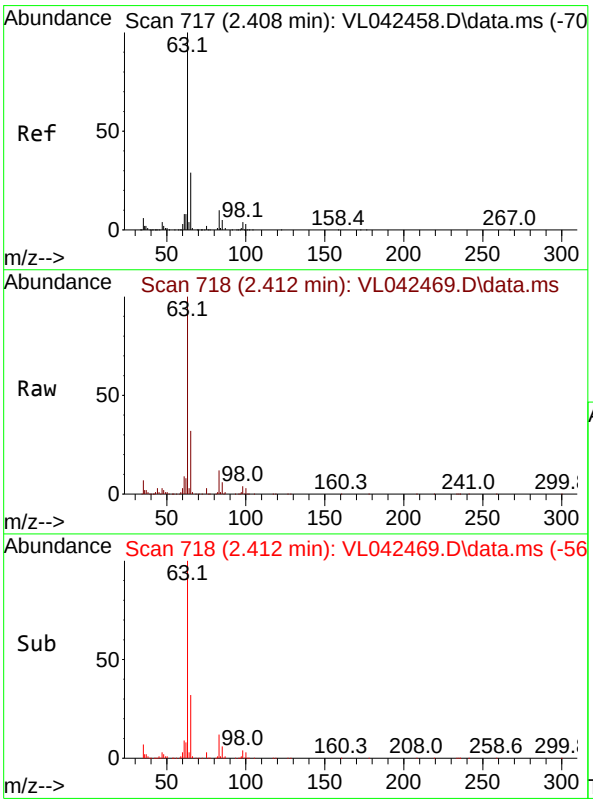
#23
Vinyl Acetate
Concen: 10.305 ppbv
RT: 2.463 min Scan# 7
Delta R.T. 0.003 min
Lab File: VL042469.D
Acq: 05 May 2025 08:29

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 43 Resp: 134402

Ion	Ratio	Lower	Upper
43	100		
86	7.9	5.5	8.3
42	11.0	8.3	12.5
44	6.0	4.6	7.0

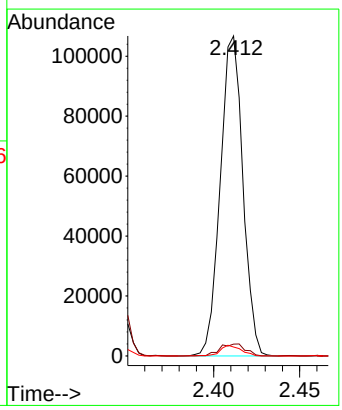


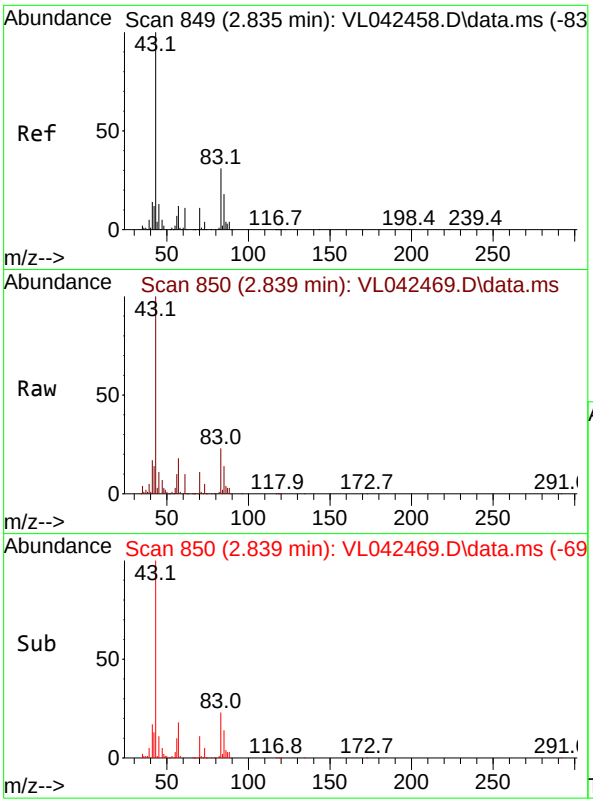


#24
1,1-Dichloroethane
Concen: 9.619 ppbv
RT: 2.412 min Scan# 718
Delta R.T. 0.003 min
Lab File: VL042469.D
Acq: 05 May 2025 08:29

Tgt Ion: 63 Resp: 97677

Ion	Ratio	Lower	Upper
63	100		
98	3.7	1.8	5.5
100	2.8	1.4	4.2



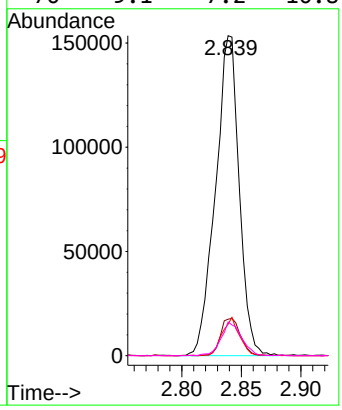


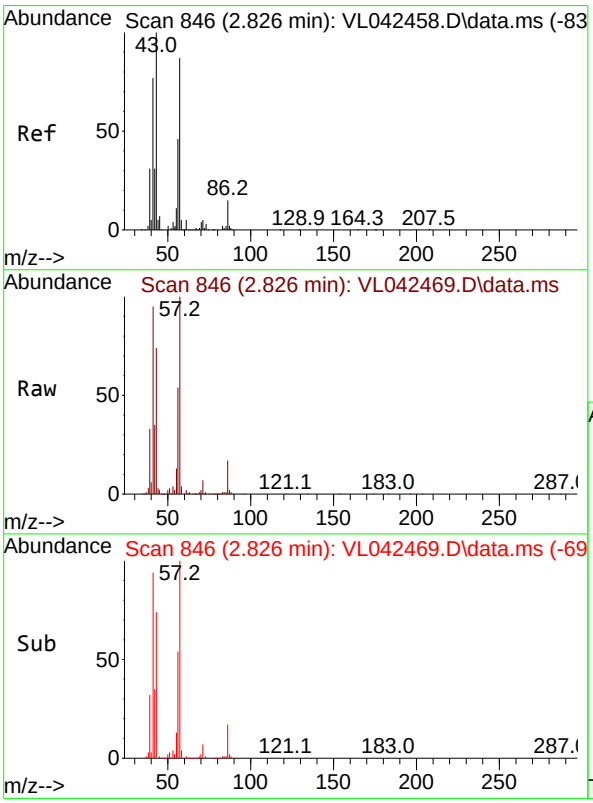
#25
Ethyl Acetate
Concen: 9.697 ppbv
RT: 2.839 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042469.D
Acq: 05 May 2025 08:29

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 43 Resp: 212175

Ion	Ratio	Lower	Upper
43	100		
45	9.9	7.8	11.6
61	8.9	7.2	10.8
70	9.1	7.2	10.8

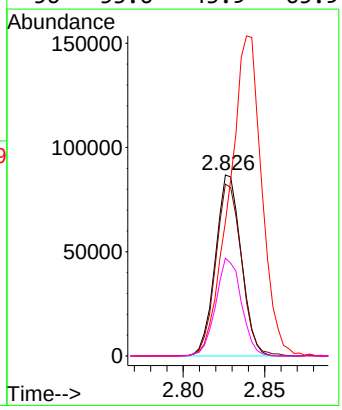


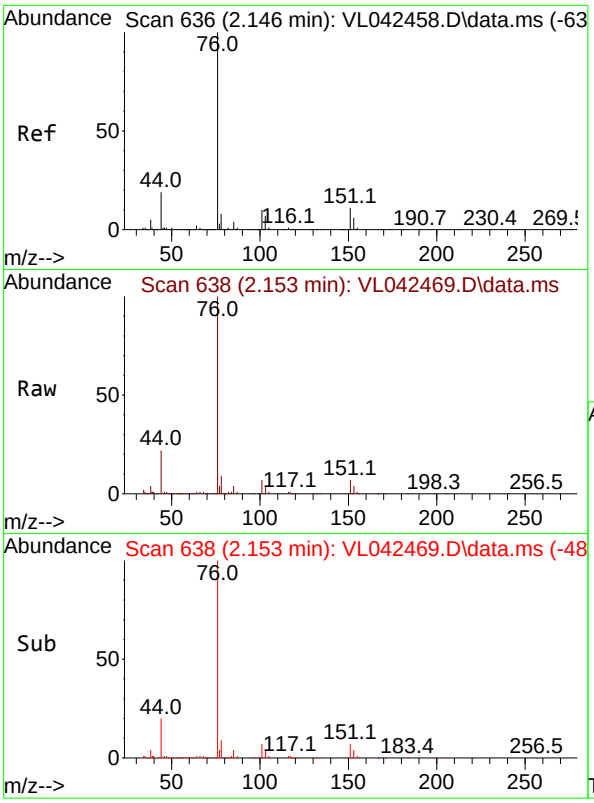


#26
Hexane
Concen: 9.996 ppbv
RT: 2.826 min Scan# 846
Delta R.T. 0.000 min
Lab File: VL042469.D
Acq: 05 May 2025 08:29

Tgt Ion: 57 Resp: 95290

Ion	Ratio	Lower	Upper
57	100		
41	95.9	77.8	116.8
43	222.9	187.0	280.6
56	53.6	43.9	65.9



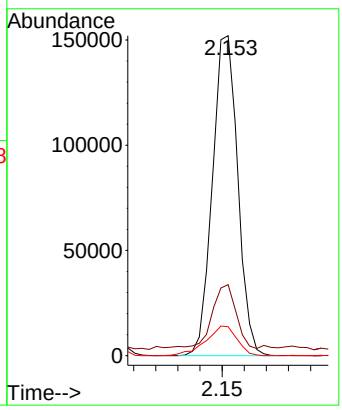


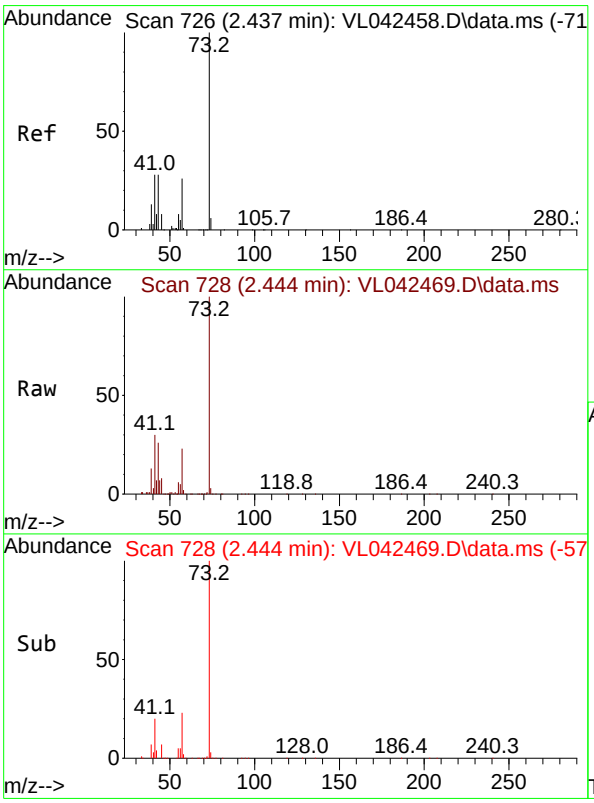
#27
Carbon Disulfide
Concen: 10.867 ppbv
RT: 2.153 min Scan# 6
Delta R.T. 0.007 min
Lab File: VL042469.D
Acq: 05 May 2025 08:29

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 76 Resp: 120890

Ion	Ratio	Lower	Upper
76	100		
44	20.8	21.0	31.6#
78	11.4	8.6	13.0

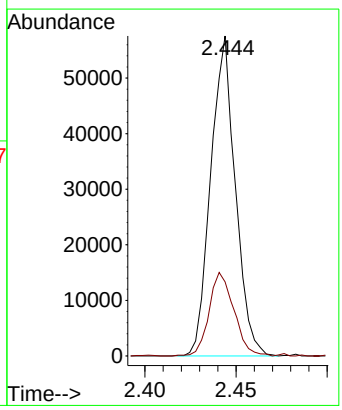


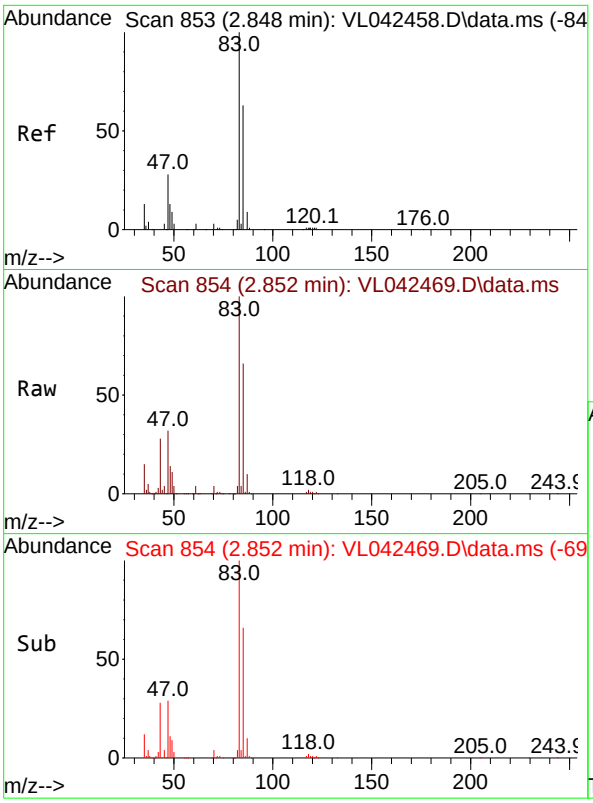


#28
Methyl tert-Butyl Ether
Concen: 9.432 ppbv
RT: 2.444 min Scan# 728
Delta R.T. 0.007 min
Lab File: VL042469.D
Acq: 05 May 2025 08:29

Tgt Ion: 73 Resp: 54017

Ion	Ratio	Lower	Upper
73	100		
57	26.8	19.9	29.9



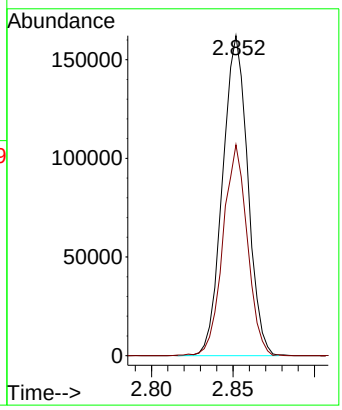


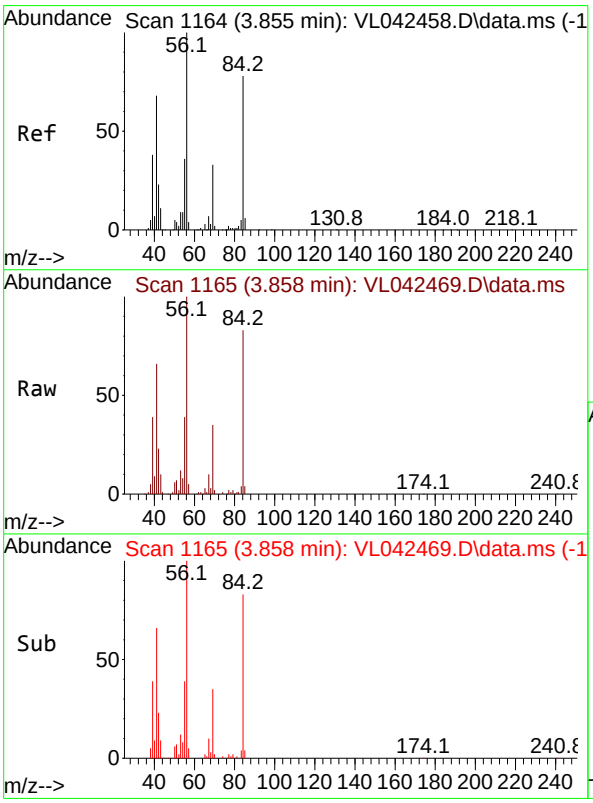
#29
Chloroform
Concen: 9.738 ppbv
RT: 2.852 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042469.D
Acq: 05 May 2025 08:29

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 83 Resp: 173954

Ion	Ratio	Lower	Upper
83	100		
85	65.7	50.4	75.6

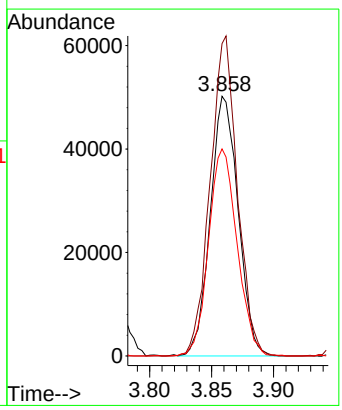


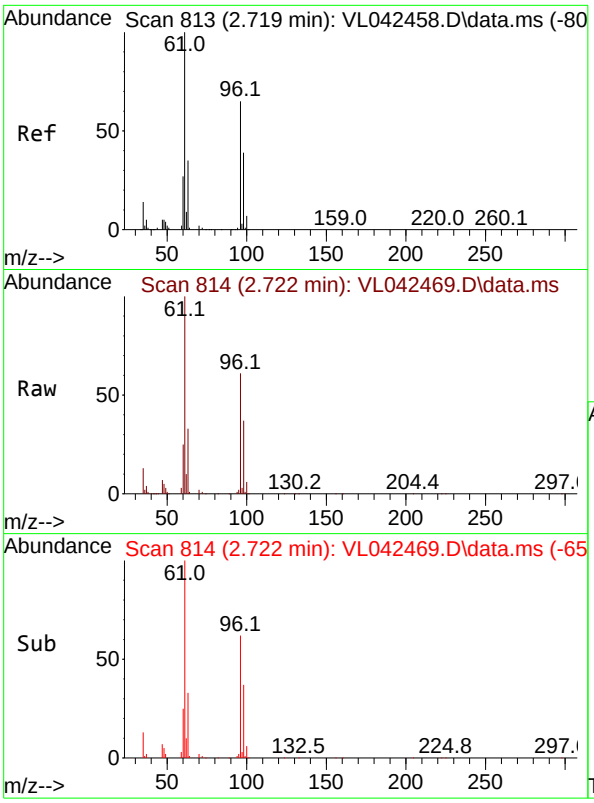


#30
Cyclohexane
Concen: 9.871 ppbv
RT: 3.858 min Scan# 1165
Delta R.T. 0.003 min
Lab File: VL042469.D
Acq: 05 May 2025 08:29

Tgt Ion: 84 Resp: 78668

Ion	Ratio	Lower	Upper
84	100		
56	120.2	98.1	147.1
41	81.7	65.8	98.8



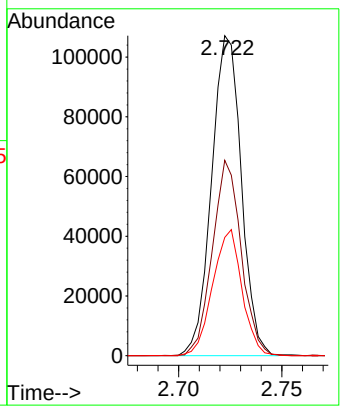


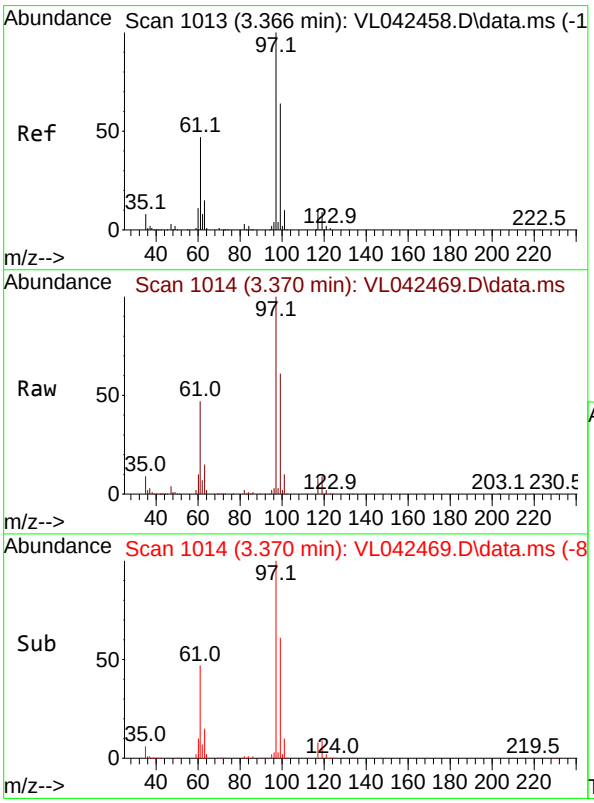
#31
cis-1,2-Dichloroethene
Concen: 9.659 ppbv
RT: 2.722 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042469.D
Acq: 05 May 2025 08:29

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 61 Resp: 107420

Ion	Ratio	Lower	Upper
61	100		
96	60.9	52.0	78.0
98	37.0	31.0	46.6

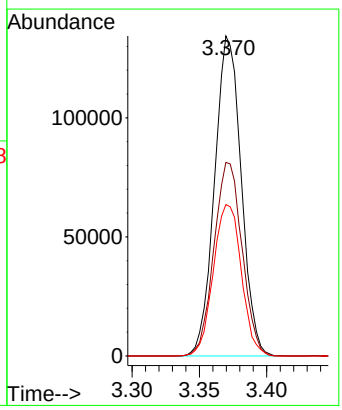


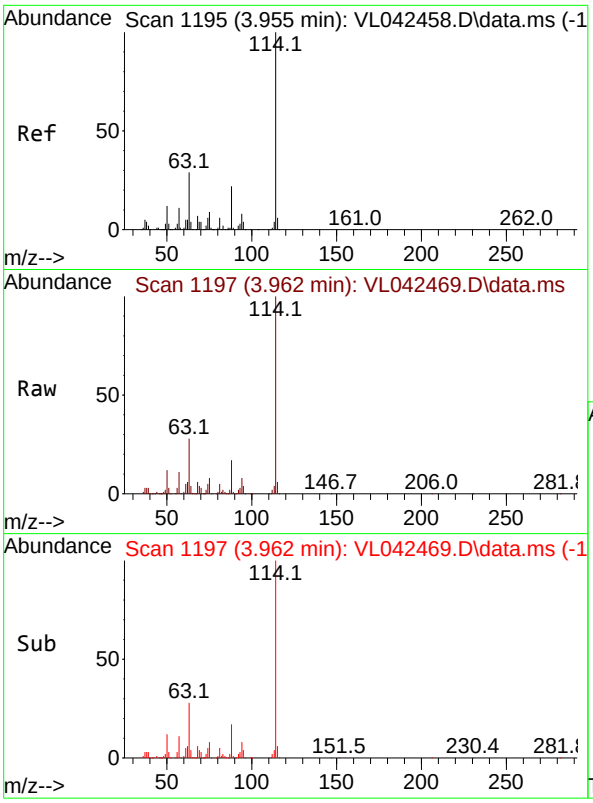


#32
1,1,1-Trichloroethane
Concen: 9.540 ppbv
RT: 3.370 min Scan# 1014
Delta R.T. 0.003 min
Lab File: VL042469.D
Acq: 05 May 2025 08:29

Tgt Ion: 97 Resp: 184899

Ion	Ratio	Lower	Upper
97	100		
99	63.7	50.7	76.1
61	49.8	40.9	61.3



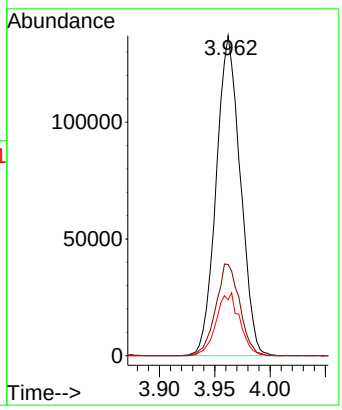


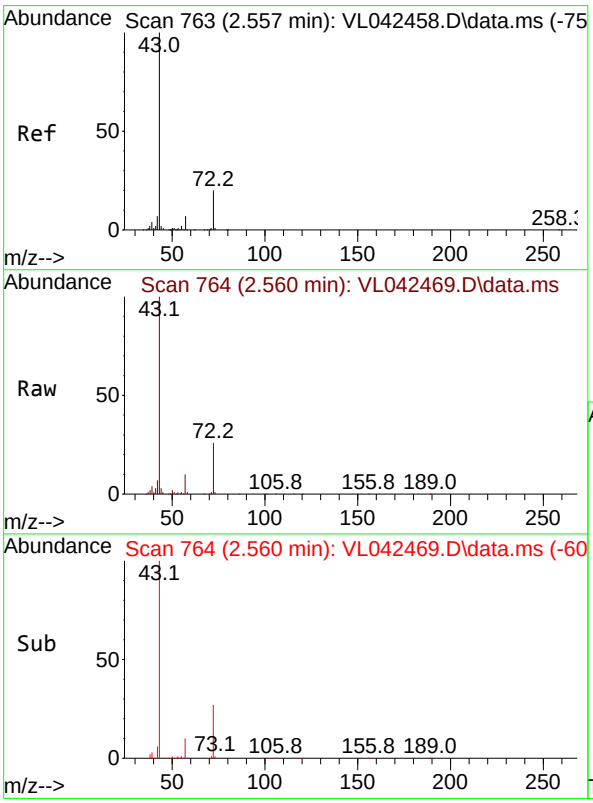
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.962 min Scan# 1
Delta R.T. 0.007 min
Lab File: VL042469.D
Acq: 05 May 2025 08:29

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion:114 Resp: 207859

Ion	Ratio	Lower	Upper
114	100		
63	28.5	23.1	34.7
88	19.2	16.1	24.1

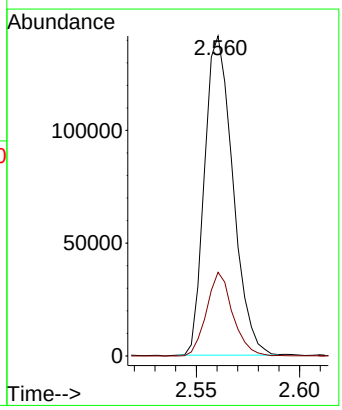


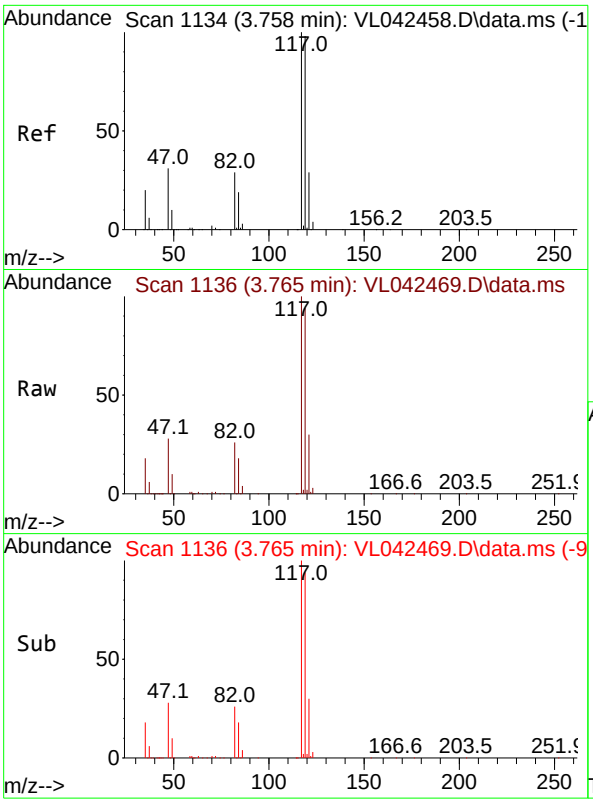


#34
2-Butanone
Concen: 8.967 ppbv
RT: 2.560 min Scan# 764
Delta R.T. 0.003 min
Lab File: VL042469.D
Acq: 05 May 2025 08:29

Tgt Ion: 43 Resp: 134813

Ion	Ratio	Lower	Upper
43	100		
72	24.2	16.7	25.1



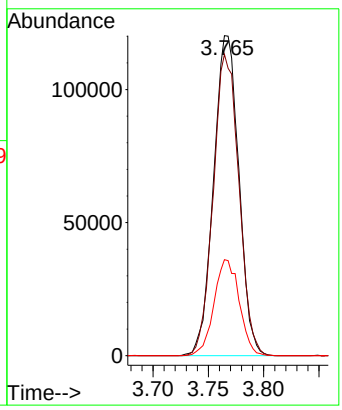


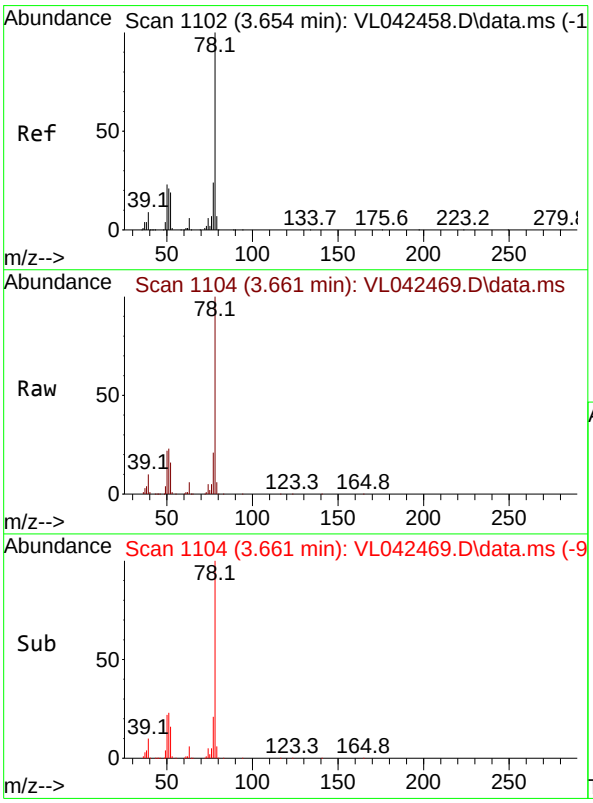
#35
Carbon Tetrachloride
Concen: 10.120 ppbv
RT: 3.765 min Scan# 1
Delta R.T. 0.007 min
Lab File: VL042469.D
Acq: 05 May 2025 08:29

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion:117 Resp: 191095

Ion	Ratio	Lower	Upper
117	100		
119	94.2	78.1	117.1
121	30.0	23.0	34.6

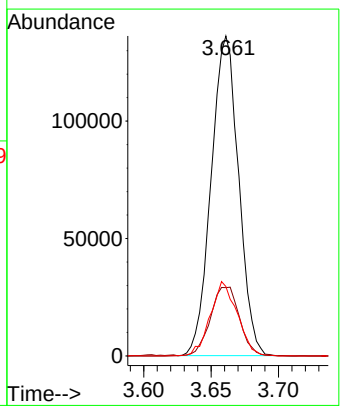


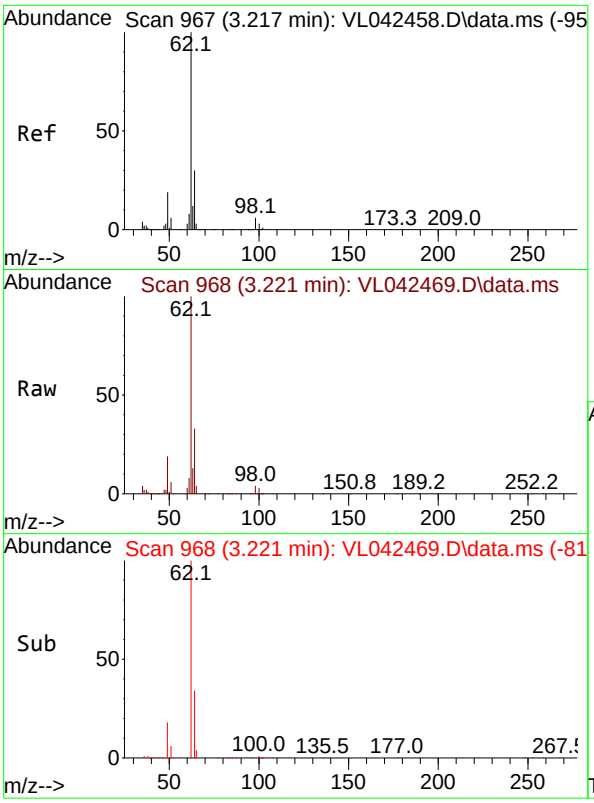


#36
Benzene
Concen: 9.838 ppbv
RT: 3.661 min Scan# 1104
Delta R.T. 0.007 min
Lab File: VL042469.D
Acq: 05 May 2025 08:29

Tgt Ion: 78 Resp: 192975

Ion	Ratio	Lower	Upper
78	100		
77	21.3	18.9	28.3
50	21.7	18.4	27.6



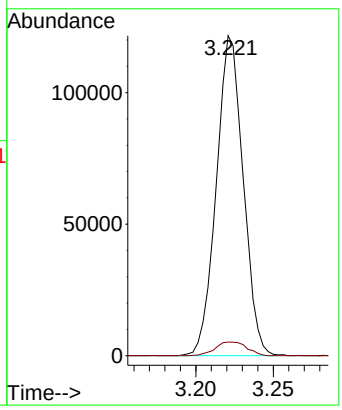


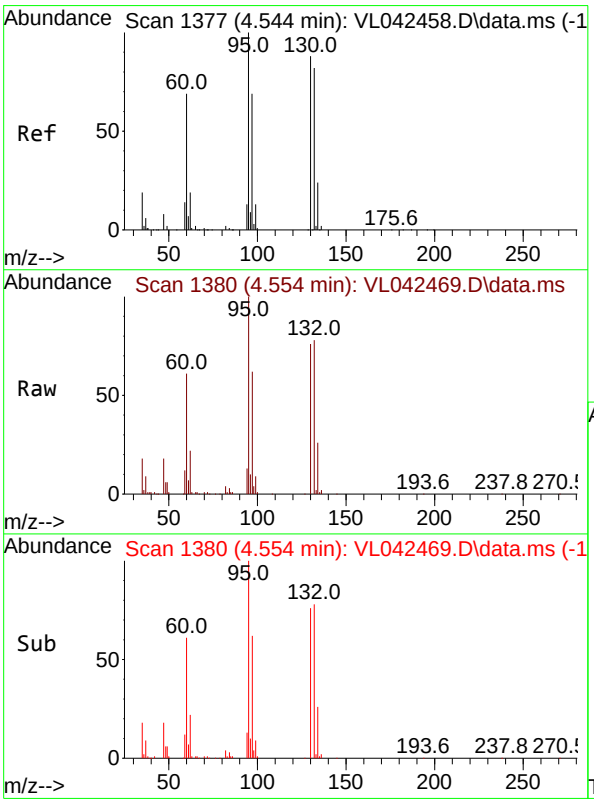
#37
1,2-Dichloroethane
Concen: 9.710 ppbv
RT: 3.221 min Scan# 9
Delta R.T. 0.003 min
Lab File: VL042469.D
Acq: 05 May 2025 08:29

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 62 Resp: 146792

Ion	Ratio	Lower	Upper
62	100		
98	5.0	4.3	6.5

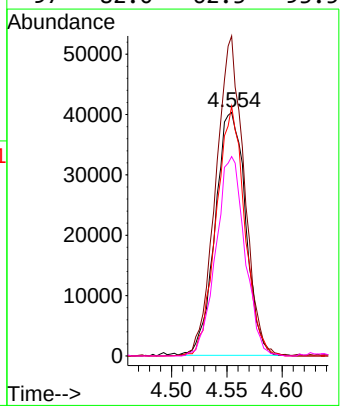


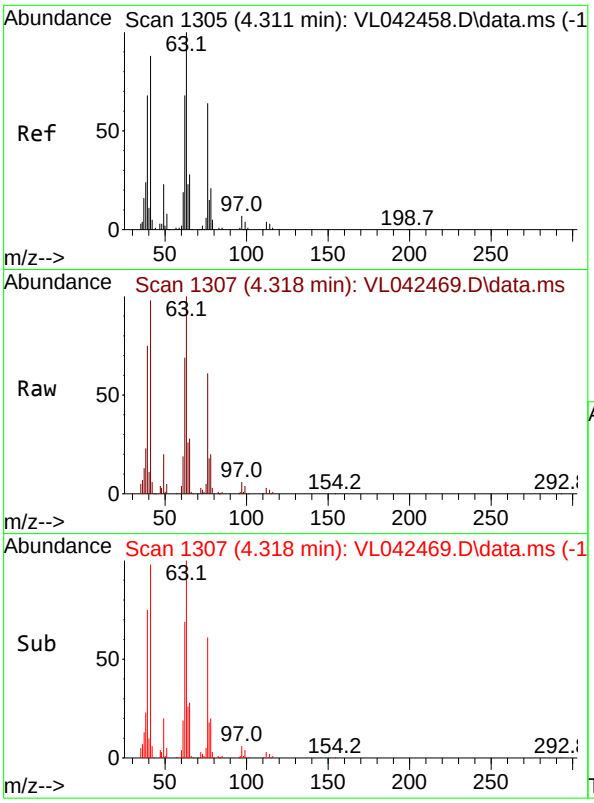


#38
Trichloroethene
Concen: 10.264 ppbv
RT: 4.554 min Scan# 1380
Delta R.T. 0.010 min
Lab File: VL042469.D
Acq: 05 May 2025 08:29

Tgt Ion:130 Resp: 76779

Ion	Ratio	Lower	Upper
130	100		
95	131.4	91.0	136.4
132	102.6	74.2	111.4
97	82.0	62.3	93.5



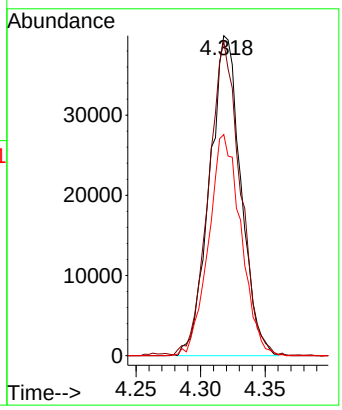


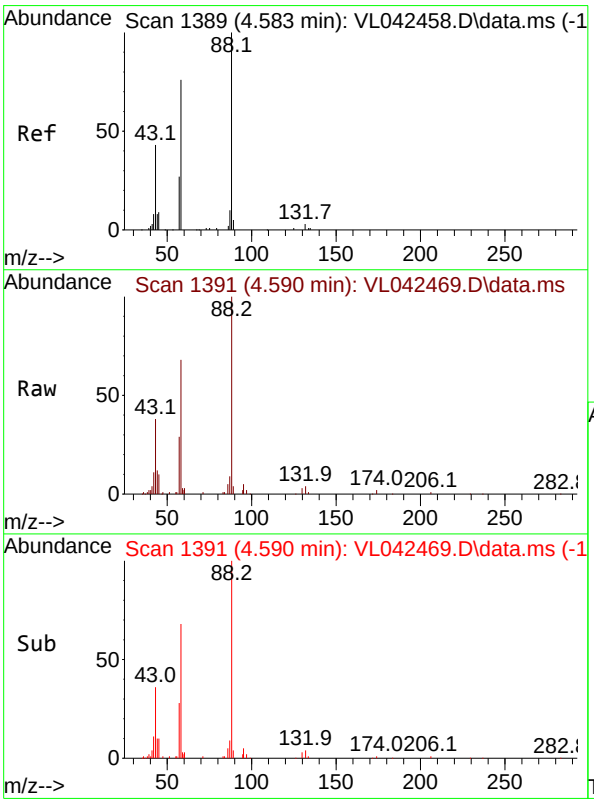
#39
1,2-Dichloropropane
Concen: 9.181 ppbv
RT: 4.318 min Scan# 1
Delta R.T. 0.007 min
Lab File: VL042469.D
Acq: 05 May 2025 08:29

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 63 Resp: 67421

Ion	Ratio	Lower	Upper
63	100		
41	97.7	69.8	104.6
62	68.9	54.3	81.5

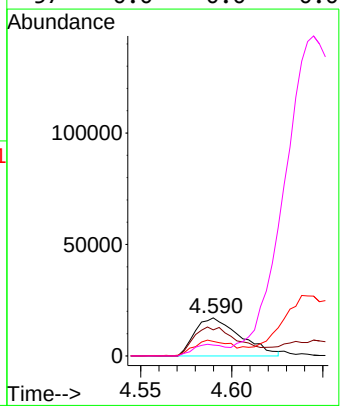


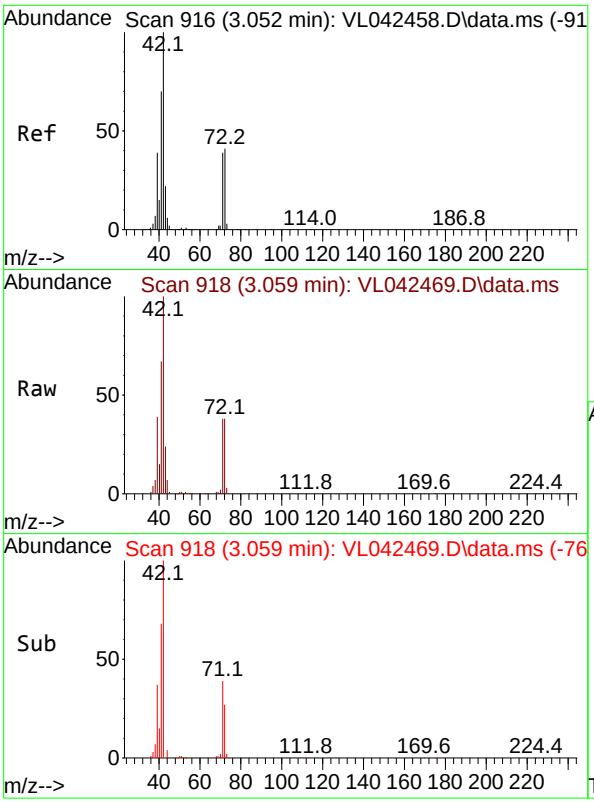


#40
1,4-Dioxane
Concen: 8.622 ppbv
RT: 4.590 min Scan# 1391
Delta R.T. 0.007 min
Lab File: VL042469.D
Acq: 05 May 2025 08:29

Tgt Ion: 88 Resp: 29648

Ion	Ratio	Lower	Upper
88	100		
58	74.1	0.0	0.0#
43	35.3	0.0	0.0#
57	0.0	0.0	0.0



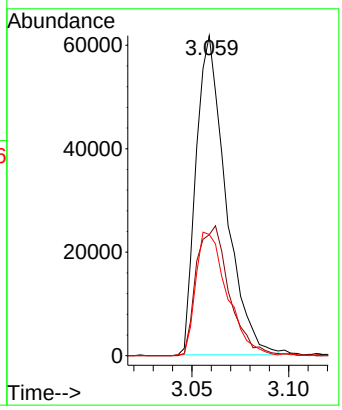


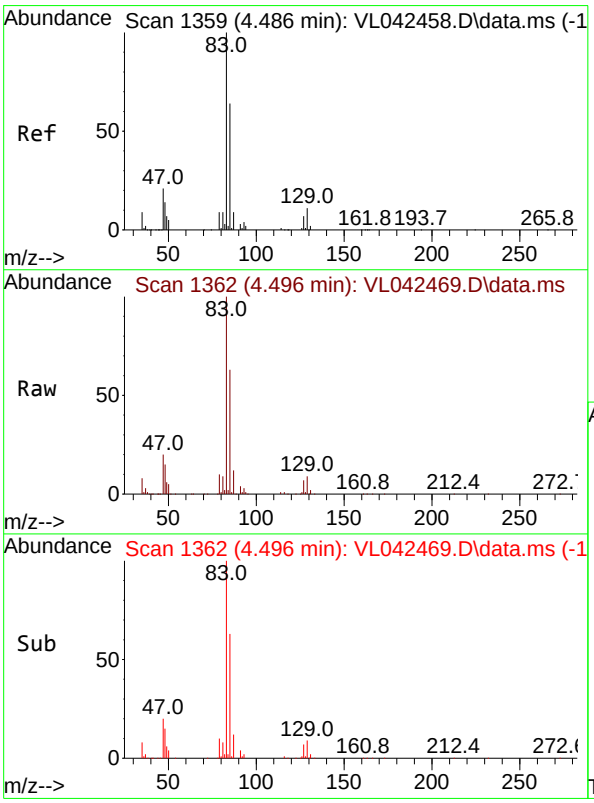
#41
Tetrahydrofuran
Concen: 9.263 ppbv
RT: 3.059 min Scan# 91
Delta R.T. 0.007 min
Lab File: VL042469.D
Acq: 05 May 2025 08:29

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 42 Resp: 66188

Ion	Ratio	Lower	Upper
42	100		
72	45.0	33.5	50.3
71	41.1	32.6	49.0

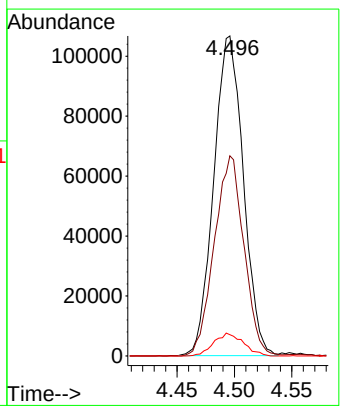


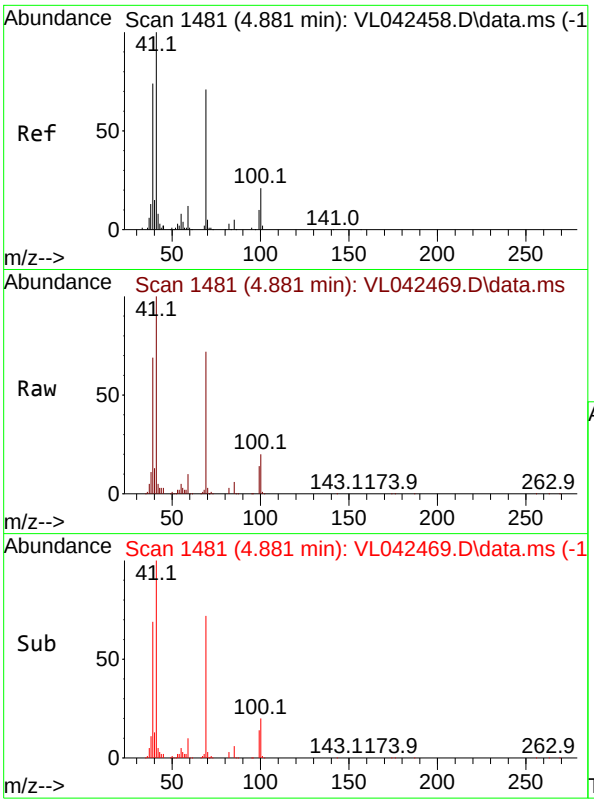


#42
Bromodichloromethane
Concen: 10.347 ppbv
RT: 4.496 min Scan# 1362
Delta R.T. 0.010 min
Lab File: VL042469.D
Acq: 05 May 2025 08:29

Tgt Ion: 83 Resp: 191130

Ion	Ratio	Lower	Upper
83	100		
85	62.6	51.5	77.3
127	6.7	5.4	8.2



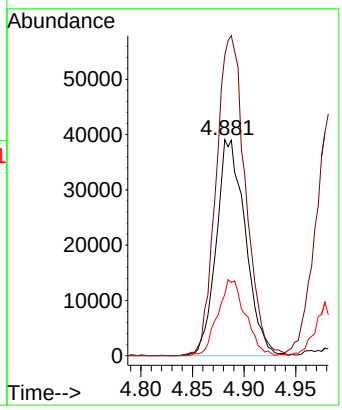


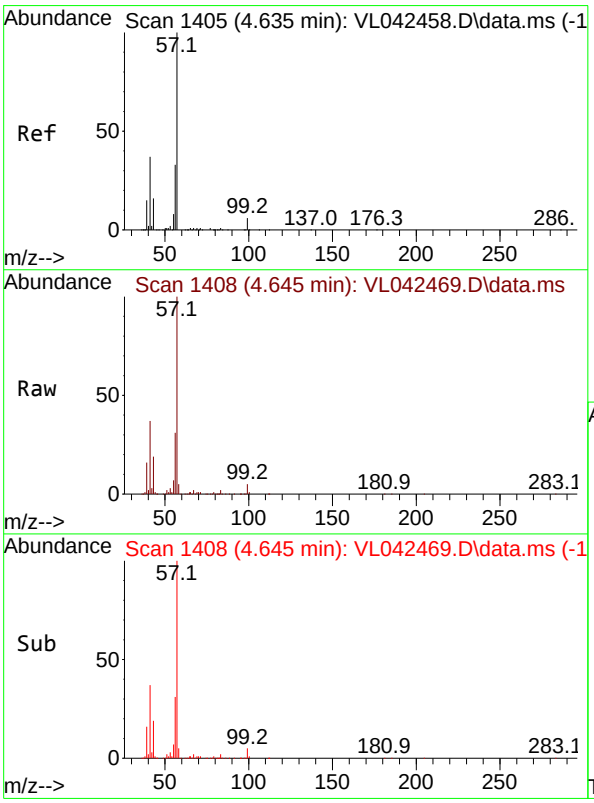
#43
Methyl Methacrylate
Concen: 10.433 ppbv
RT: 4.881 min Scan# 14
Delta R.T. 0.000 min
Lab File: VL042469.D
Acq: 05 May 2025 08:29

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 69 Resp: 76368

Ion	Ratio	Lower	Upper
69	100		
41	150.0	120.8	181.2
100	33.8	26.7	40.1

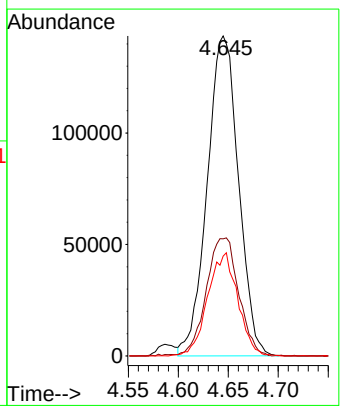


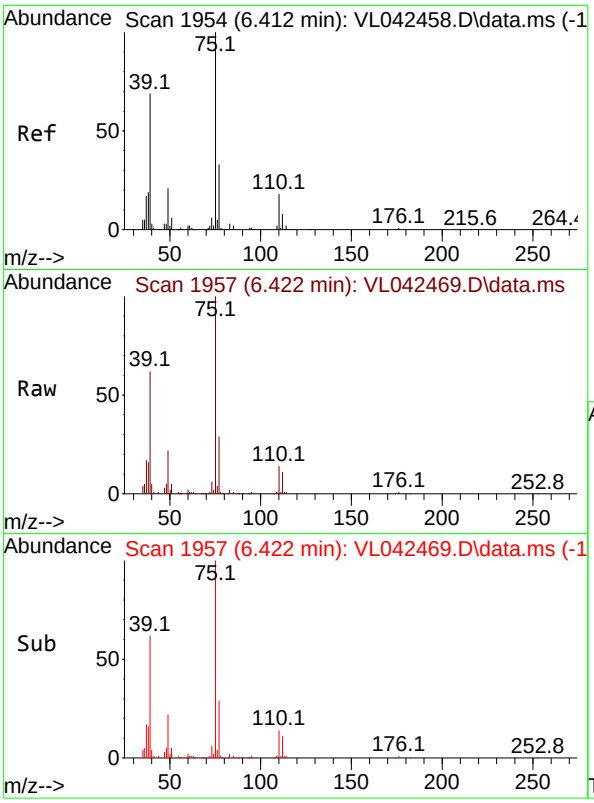


#44
2,2,4-Trimethylpentane
Concen: 9.838 ppbv
RT: 4.645 min Scan# 1408
Delta R.T. 0.010 min
Lab File: VL042469.D
Acq: 05 May 2025 08:29

Tgt Ion: 57 Resp: 312811

Ion	Ratio	Lower	Upper
57	100		
41	38.5	30.6	45.8
56	31.0	25.0	37.6



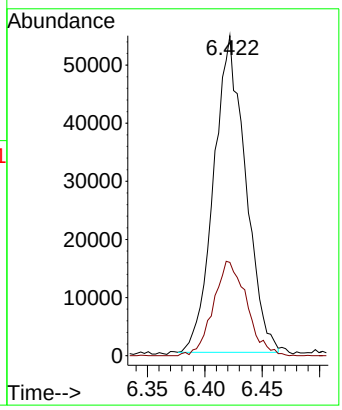


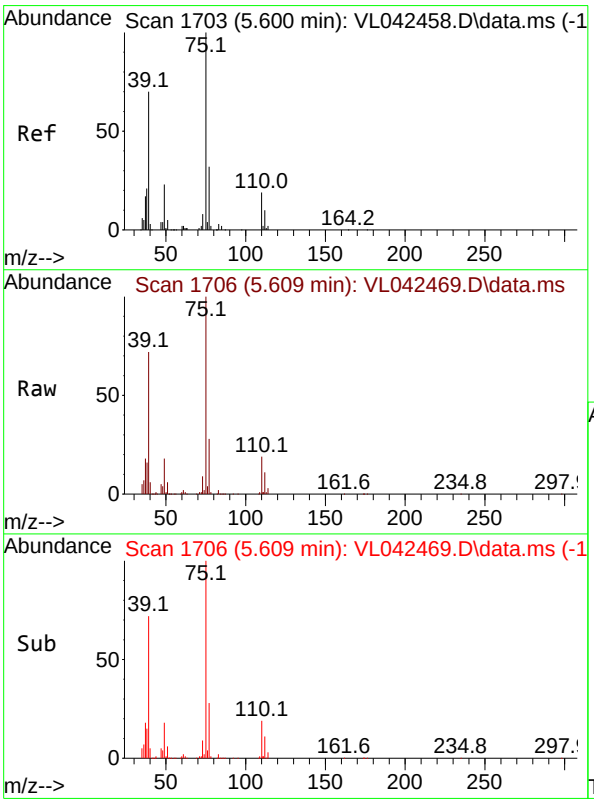
#45
t-1,3-Dichloropropene
Concen: 10.980 ppbv
RT: 6.422 min Scan# 1
Delta R.T. 0.010 min
Lab File: VL042469.D
Acq: 05 May 2025 08:29

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 75 Resp: 105437

Ion	Ratio	Lower	Upper
75	100		
77	29.2	26.3	39.5

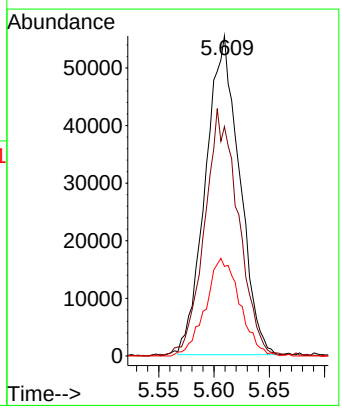


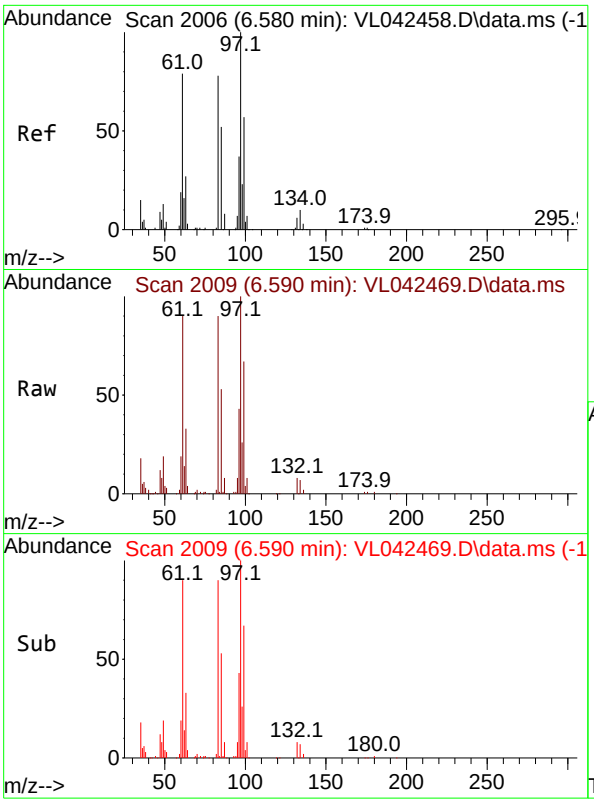


#46
cis-1,3-Dichloropropene
Concen: 10.321 ppbv
RT: 5.609 min Scan# 1706
Delta R.T. 0.010 min
Lab File: VL042469.D
Acq: 05 May 2025 08:29

Tgt Ion: 75 Resp: 117796

Ion	Ratio	Lower	Upper
75	100		
39	71.0	55.7	83.5
77	27.9	25.8	38.8



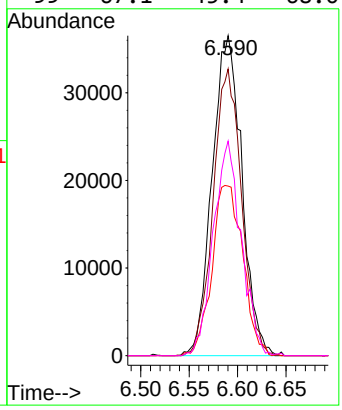


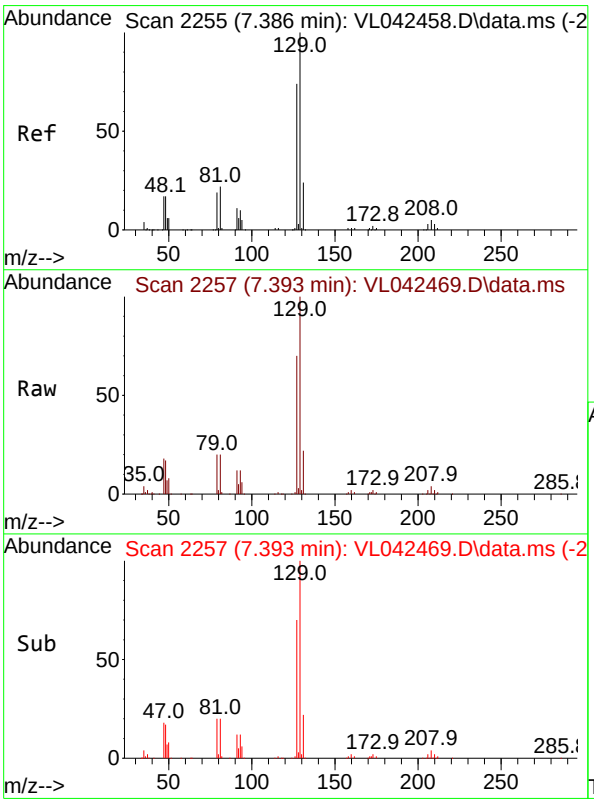
#47
1,1,2-Trichloroethane
Concen: 9.651 ppbv
RT: 6.590 min Scan# 2
Delta R.T. 0.010 min
Lab File: VL042469.D
Acq: 05 May 2025 08:29

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 97 Resp: 77722

Ion	Ratio	Lower	Upper
97	100		
83	89.6	62.2	93.2
85	53.0	41.5	62.3
99	67.1	45.4	68.0

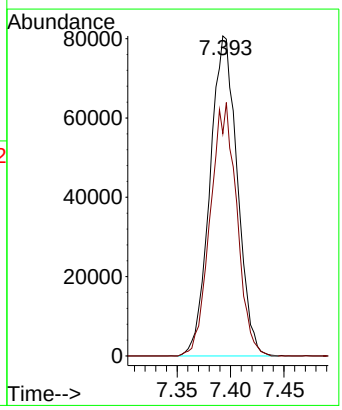


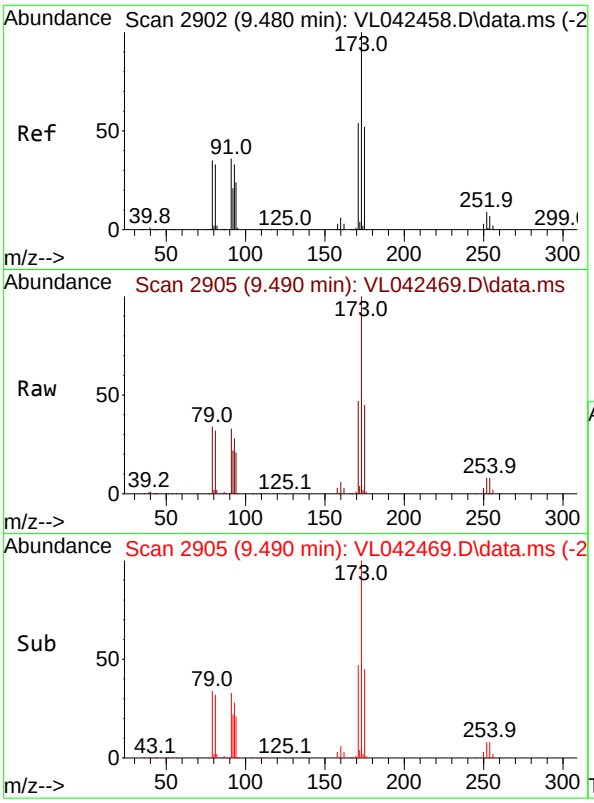


#48
Dibromochloromethane
Concen: 10.556 ppbv
RT: 7.393 min Scan# 2257
Delta R.T. 0.007 min
Lab File: VL042469.D
Acq: 05 May 2025 08:29

Tgt Ion:129 Resp: 143524

Ion	Ratio	Lower	Upper
129	100		
127	76.7	39.5	118.5



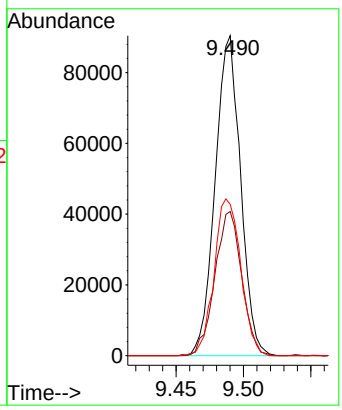


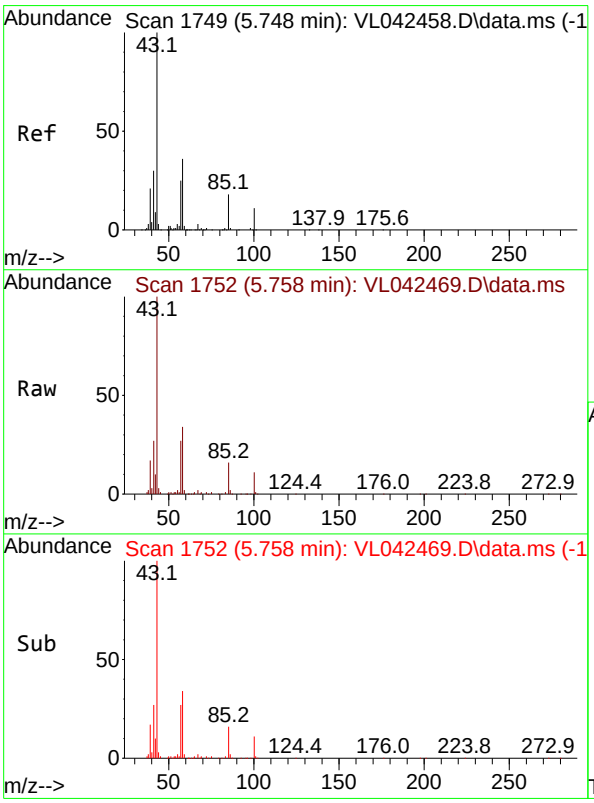
#49
Bromoform
Concen: 10.402 ppbv
RT: 9.490 min Scan# 2
Delta R.T. 0.010 min
Lab File: VL042469.D
Acq: 05 May 2025 08:29

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion:173 Resp: 118610

Ion	Ratio	Lower	Upper
173	100		
175	47.6	38.9	58.3
171	51.5	40.6	60.8

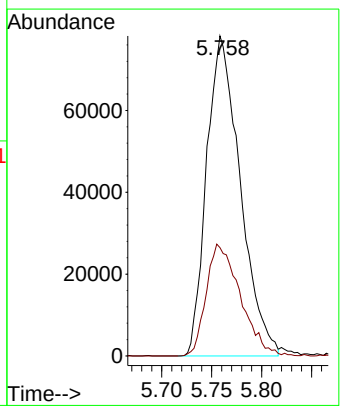


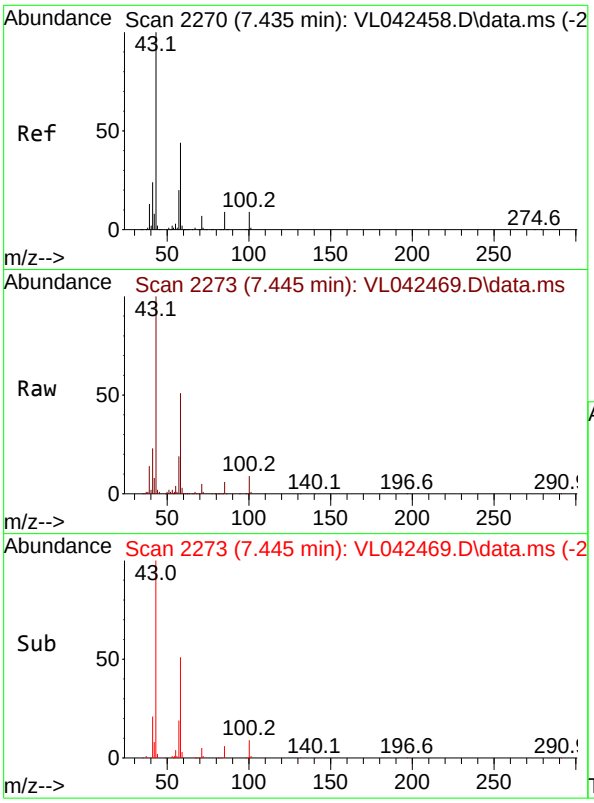


#50
4-Methyl-2-Pentanone
Concen: 9.625 ppbv
RT: 5.758 min Scan# 1752
Delta R.T. 0.010 min
Lab File: VL042469.D
Acq: 05 May 2025 08:29

Tgt Ion: 43 Resp: 183038

Ion	Ratio	Lower	Upper
43	100		
58	35.5	29.5	44.3



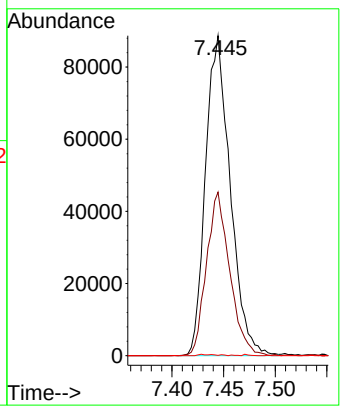


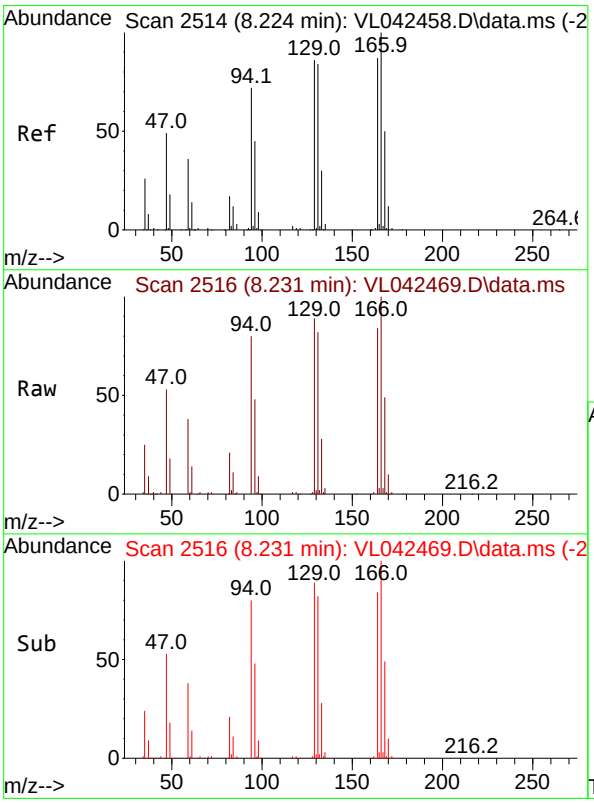
#51
2-Hexanone
Concen: 9.703 ppbv
RT: 7.445 min Scan# 2
Delta R.T. 0.010 min
Lab File: VL042469.D
Acq: 05 May 2025 08:29

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 43 Resp: 147526

Ion	Ratio	Lower	Upper
43	100		
58	48.3	37.2	55.8
98	0.3	0.4	0.6#

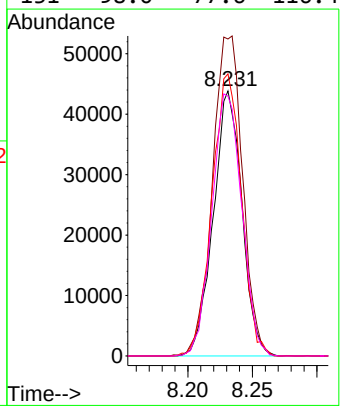


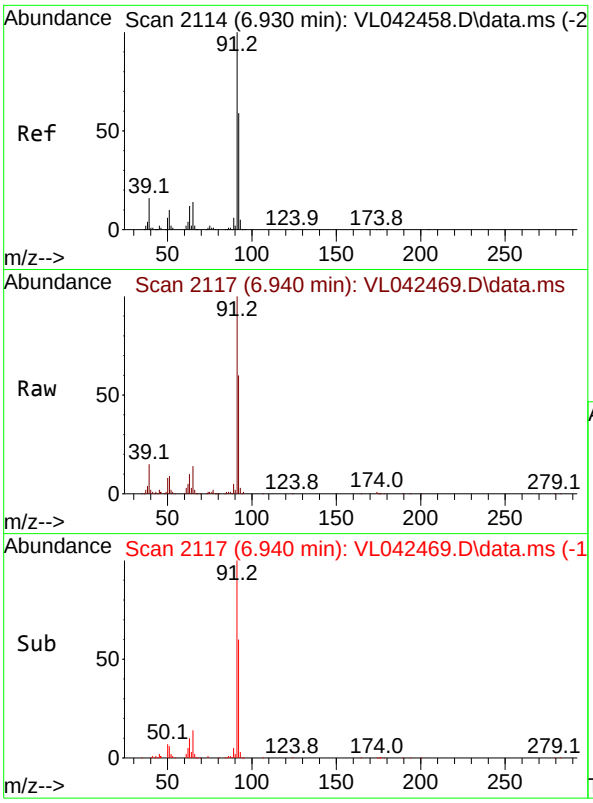


#52
Tetrachloroethene
Concen: 9.038 ppbv
RT: 8.231 min Scan# 2516
Delta R.T. 0.007 min
Lab File: VL042469.D
Acq: 05 May 2025 08:29

Tgt Ion:164 Resp: 67482

Ion	Ratio	Lower	Upper
164	100		
166	119.6	91.6	137.4
129	106.5	79.0	118.4
131	98.0	77.6	116.4



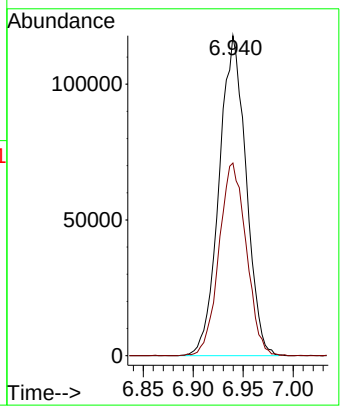


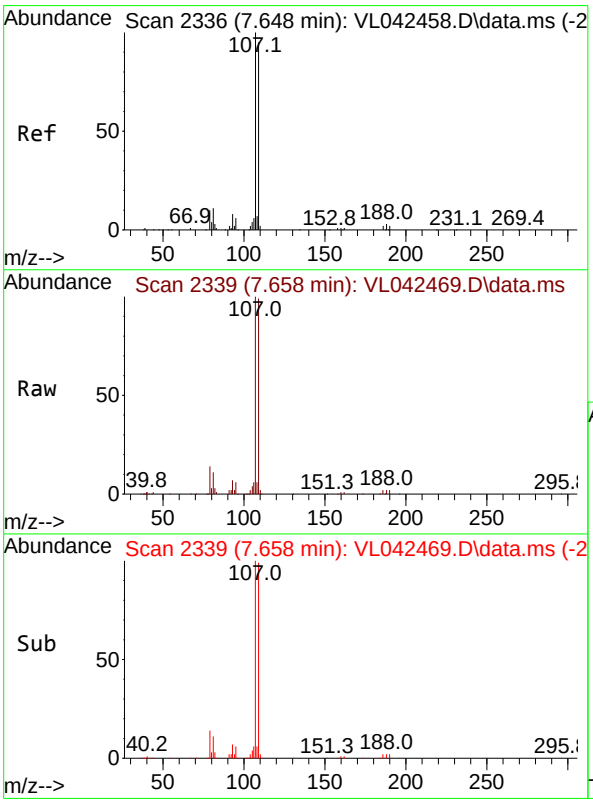
#53
Toluene
Concen: 10.638 ppbv
RT: 6.940 min Scan# 21
Delta R.T. 0.010 min
Lab File: VL042469.D
Acq: 05 May 2025 08:29

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 91 Resp: 220871

Ion	Ratio	Lower	Upper
91	100		
92	61.0	47.9	71.9

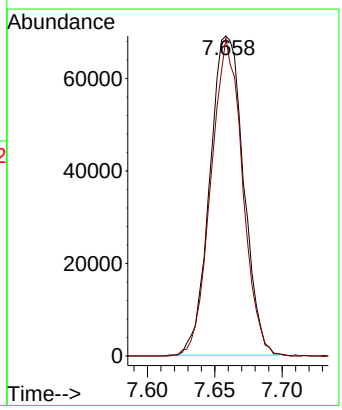


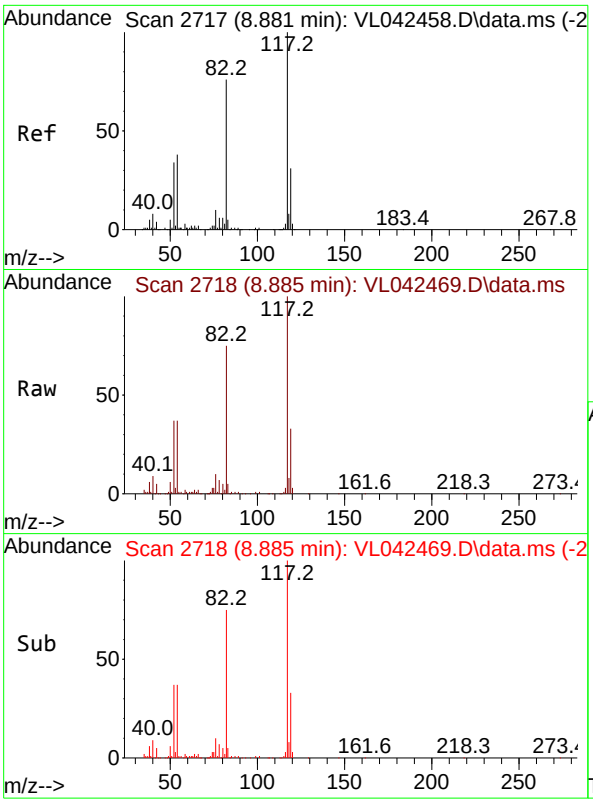


#54
1,2-Dibromoethane
Concen: 9.739 ppbv
RT: 7.658 min Scan# 2339
Delta R.T. 0.010 min
Lab File: VL042469.D
Acq: 05 May 2025 08:29

Tgt Ion:107 Resp: 119914

Ion	Ratio	Lower	Upper
107	100		
109	98.9	76.0	114.0



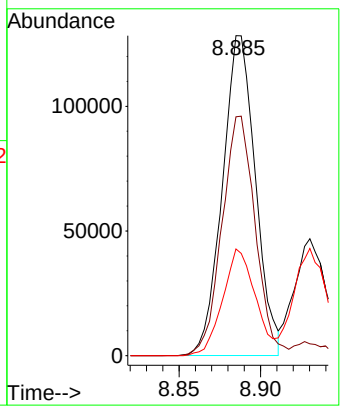


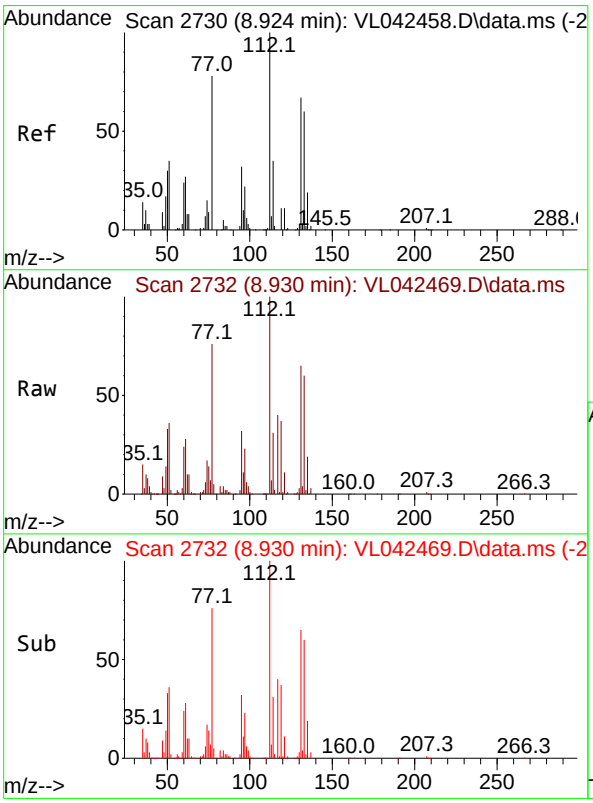
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.885 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042469.D
Acq: 05 May 2025 08:29

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion:117 Resp: 180939

Ion	Ratio	Lower	Upper
117	100		
82	79.1	63.5	95.3
119	33.6	25.8	38.8

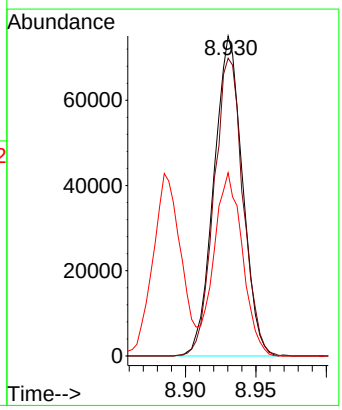


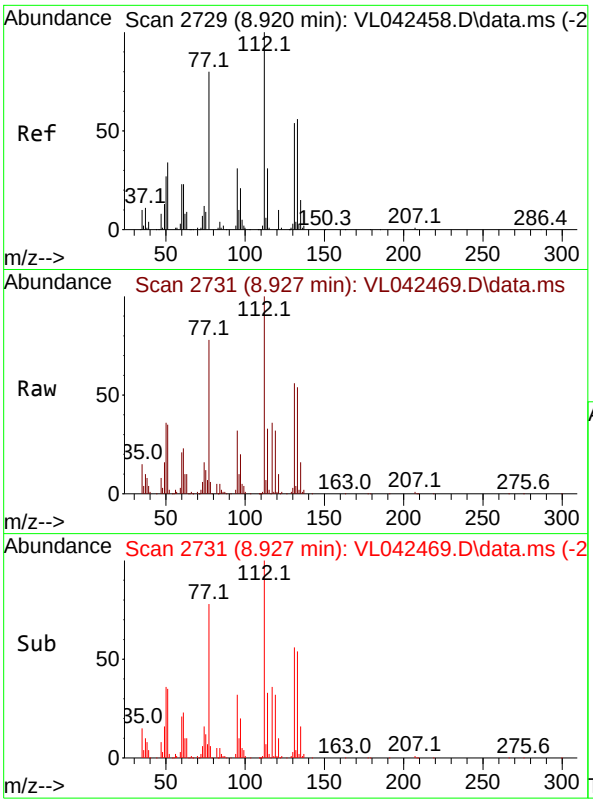


#56
1,1,1,2-Tetrachloroethane
Concen: 9.942 ppbv
RT: 8.930 min Scan# 2732
Delta R.T. 0.007 min
Lab File: VL042469.D
Acq: 05 May 2025 08:29

Tgt Ion:131 Resp: 106249

Ion	Ratio	Lower	Upper
131	100		
133	94.4	76.0	114.0
119	56.0	46.1	69.1



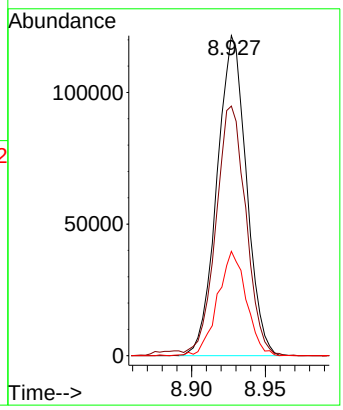


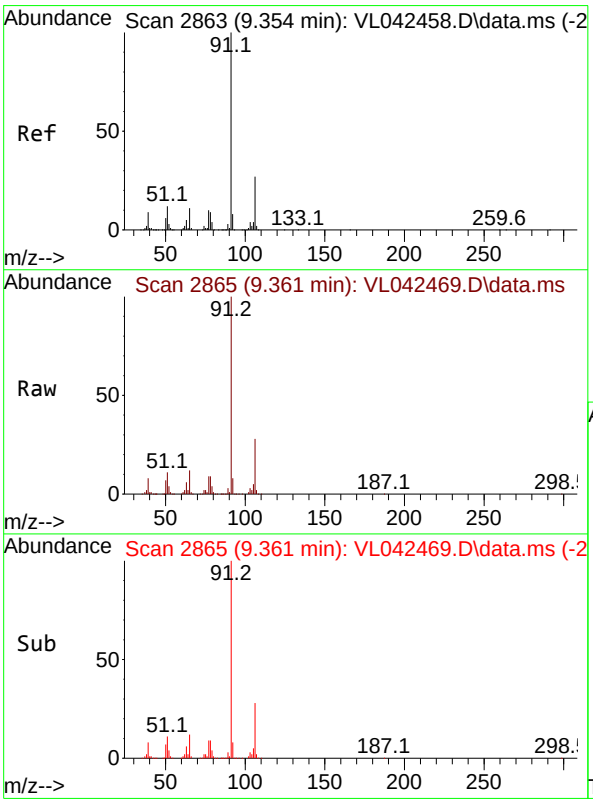
#57
Chlorobenzene
Concen: 9.284 ppbv
RT: 8.927 min Scan# 2
Delta R.T. 0.007 min
Lab File: VL042469.D
Acq: 05 May 2025 08:29

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion:112 Resp: 168792

Ion	Ratio	Lower	Upper
112	100		
77	77.3	65.0	97.4
114	32.6	27.5	33.7

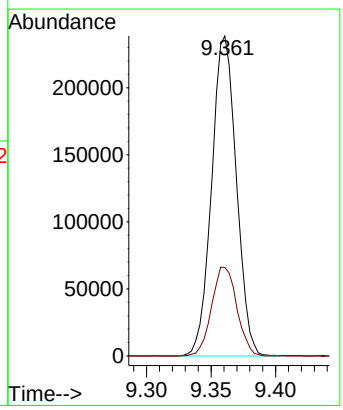


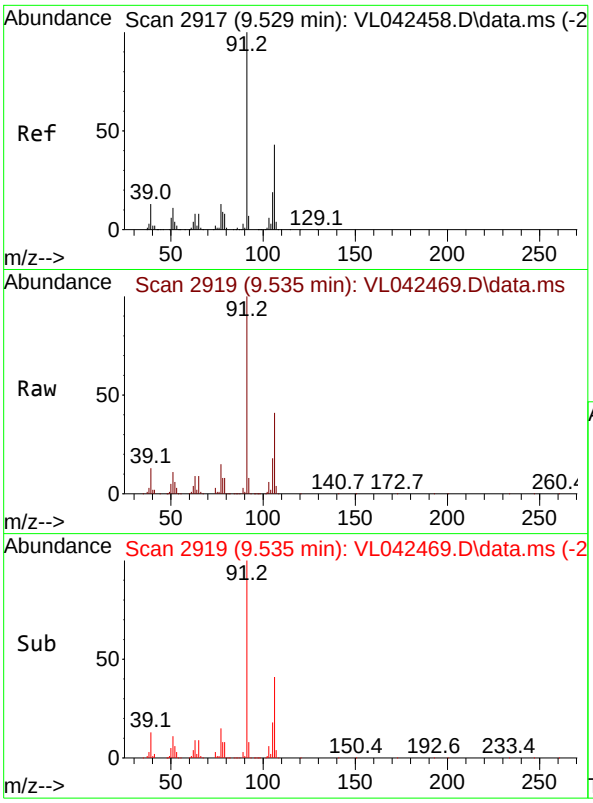


#58
Ethyl Benzene
Concen: 10.487 ppbv
RT: 9.361 min Scan# 2865
Delta R.T. 0.007 min
Lab File: VL042469.D
Acq: 05 May 2025 08:29

Tgt Ion: 91 Resp: 317094

Ion	Ratio	Lower	Upper
91	100		
106	27.6	21.9	32.9



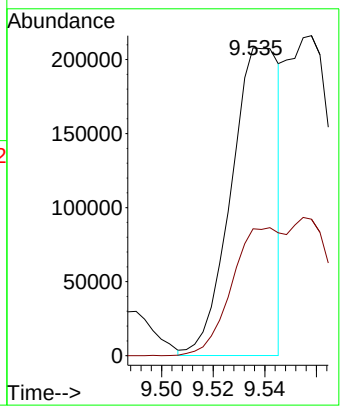


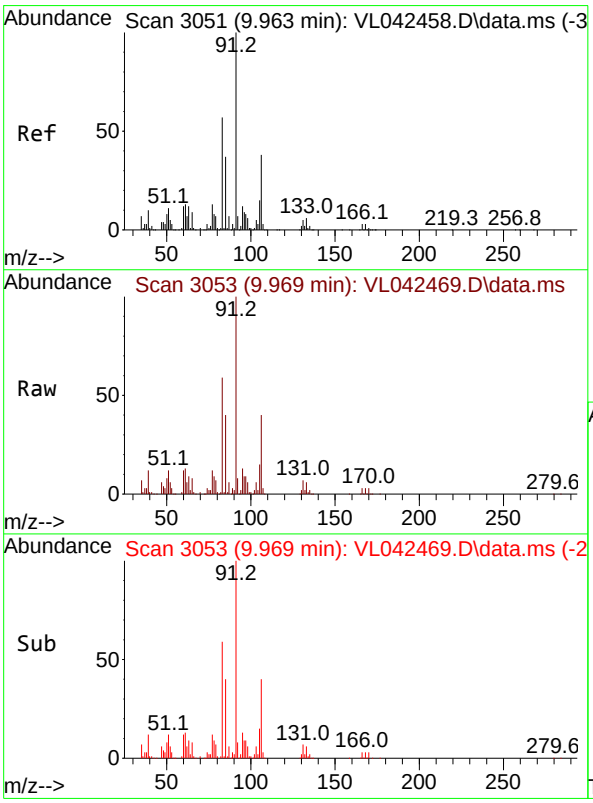
#59
m/p-Xylene
Concen: 10.482 ppbv
RT: 9.535 min Scan# 2
Delta R.T. 0.007 min
Lab File: VL042469.D
Acq: 05 May 2025 08:29

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 91 Resp: 265713

Ion	Ratio	Lower	Upper
91	100		
106	0.0	34.2	51.2#

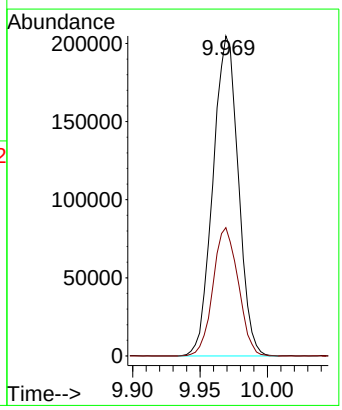


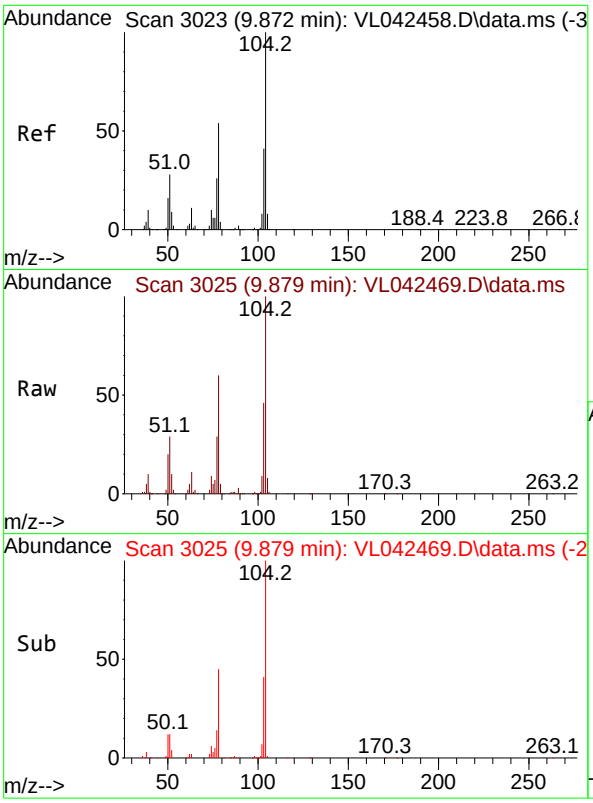


#60
o-Xylene
Concen: 10.552 ppbv
RT: 9.969 min Scan# 3053
Delta R.T. 0.007 min
Lab File: VL042469.D
Acq: 05 May 2025 08:29

Tgt Ion: 91 Resp: 267806

Ion	Ratio	Lower	Upper
91	100		
106	39.9	20.1	60.2



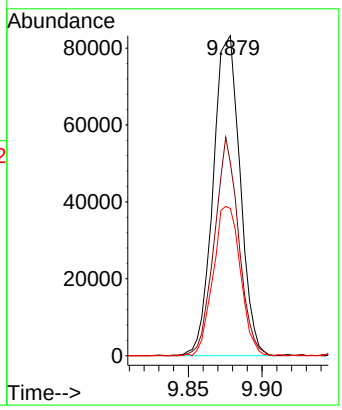


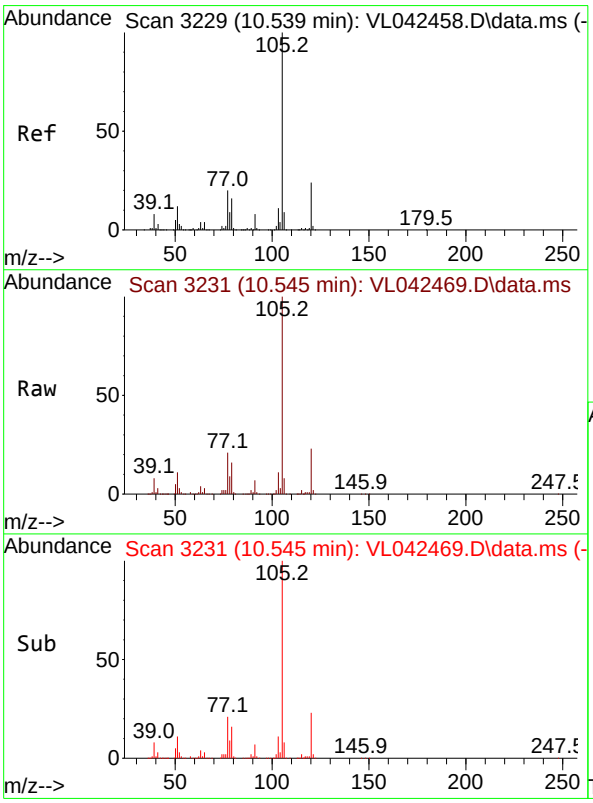
#61
Styrene
Concen: 11.160 ppbv
RT: 9.879 min Scan# 3
Delta R.T. 0.007 min
Lab File: VL042469.D
Acq: 05 May 2025 08:29

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion:104 Resp: 105698

Ion	Ratio	Lower	Upper
104	100		
78	61.7	46.9	70.3
103	47.3	36.6	55.0

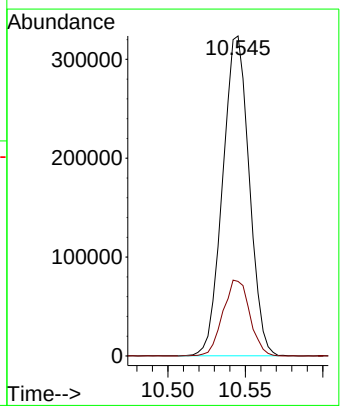


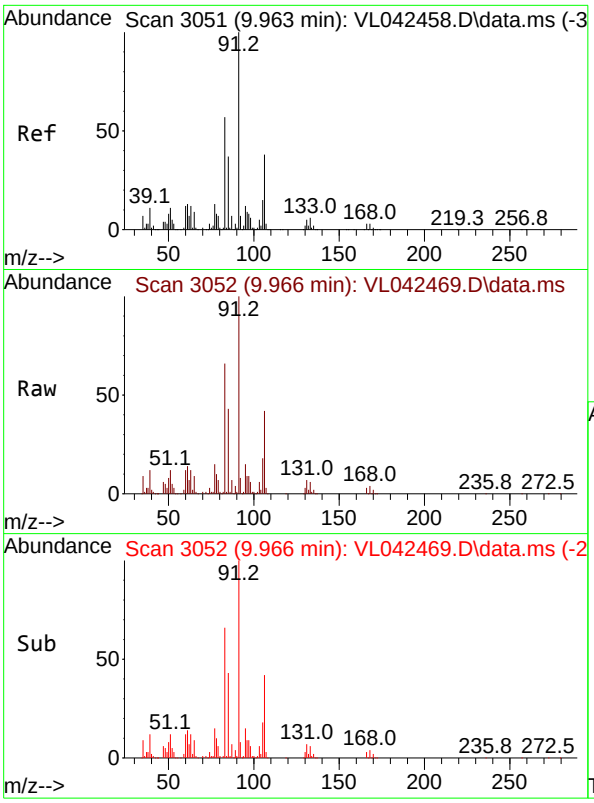


#62
Isopropylbenzene
Concen: 10.538 ppbv
RT: 10.545 min Scan# 3231
Delta R.T. 0.007 min
Lab File: VL042469.D
Acq: 05 May 2025 08:29

Tgt Ion:105 Resp: 385788

Ion	Ratio	Lower	Upper
105	100		
120	24.1	18.8	28.2



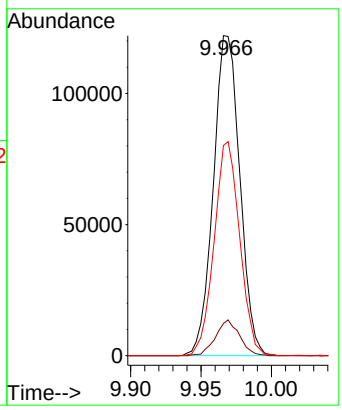


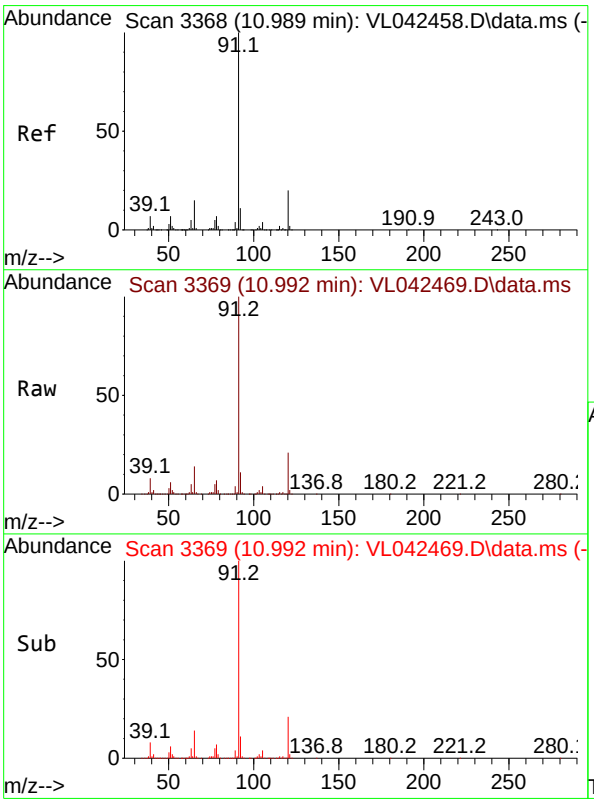
#63
1,1,2,2-Tetrachloroethane
Concen: 9.137 ppbv
RT: 9.966 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042469.D
Acq: 05 May 2025 08:29

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 83 Resp: 159883

Ion	Ratio	Lower	Upper
83	100		
131	10.1	4.7	14.1
85	64.6	32.5	97.4

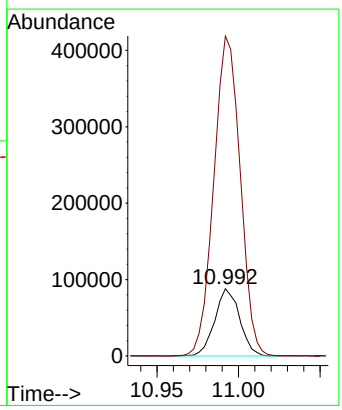


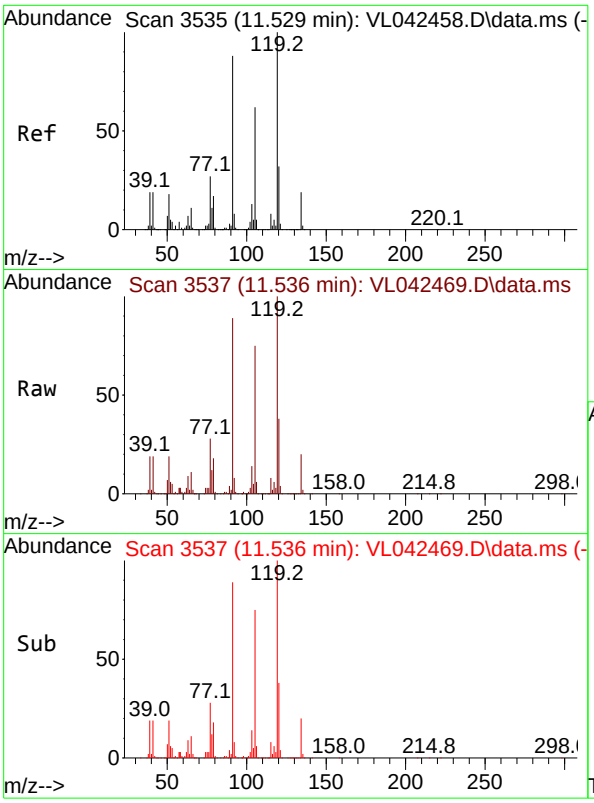


#64
n-propylbenzene
Concen: 10.429 ppbv
RT: 10.992 min Scan# 3369
Delta R.T. 0.003 min
Lab File: VL042469.D
Acq: 05 May 2025 08:29

Tgt Ion:120 Resp: 93317

Ion	Ratio	Lower	Upper
120	100		
91	505.8	408.6	612.8



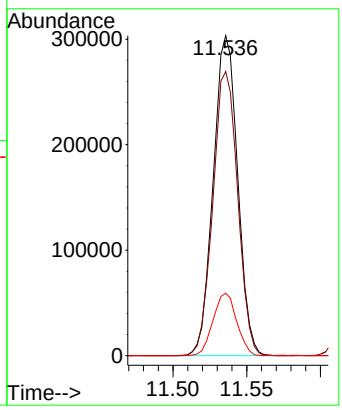


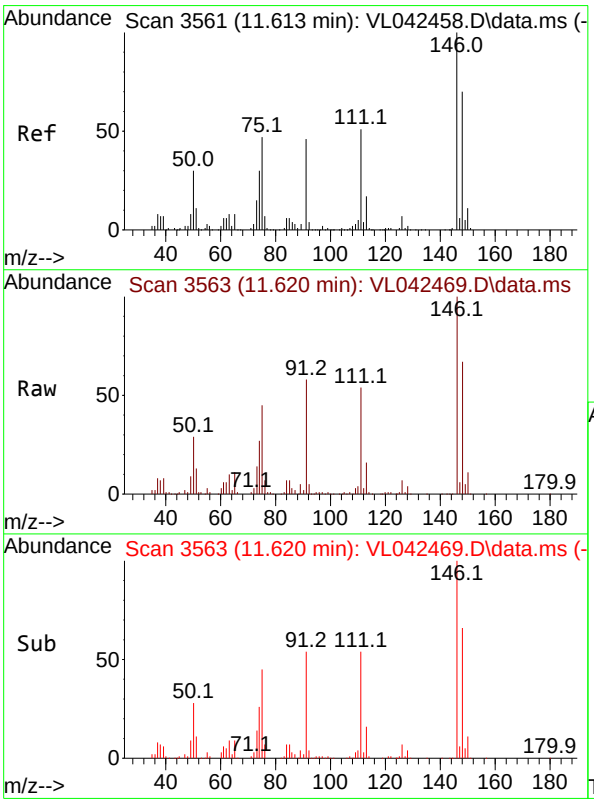
#65
tert-Butylbenzene
Concen: 10.684 ppbv
RT: 11.536 min Scan# 3
Delta R.T. 0.007 min
Lab File: VL042469.D
Acq: 05 May 2025 08:29

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion:119 Resp: 349071

Ion	Ratio	Lower	Upper
119	100		
91	90.3	71.6	107.4
134	18.9	15.0	22.4

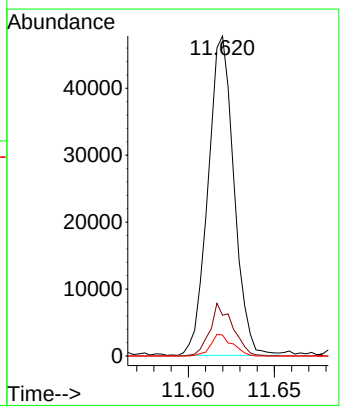


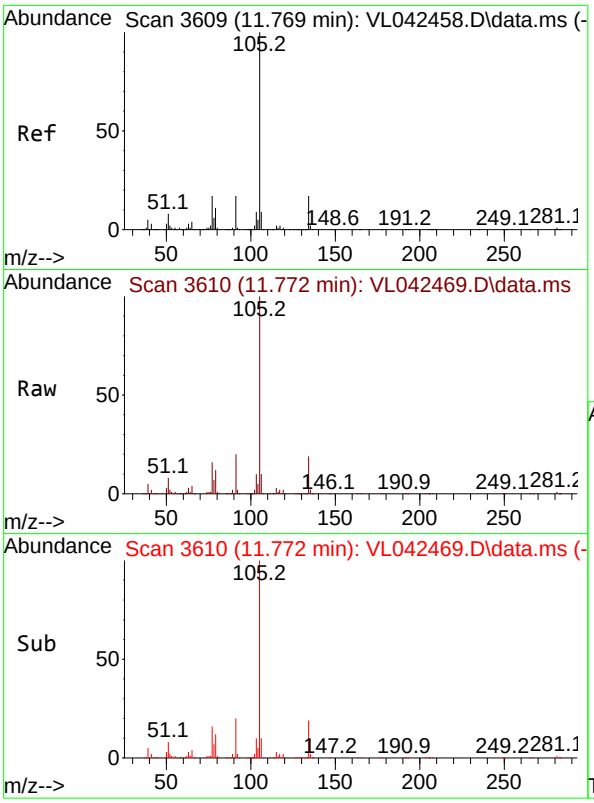


#66
Benzyl Chloride
Concen: 13.257 ppbv
RT: 11.620 min Scan# 3563
Delta R.T. 0.007 min
Lab File: VL042469.D
Acq: 05 May 2025 08:29

Tgt Ion: 91 Resp: 50060

Ion	Ratio	Lower	Upper
91	100		
126	14.4	13.3	19.9
128	5.6	4.2	6.4



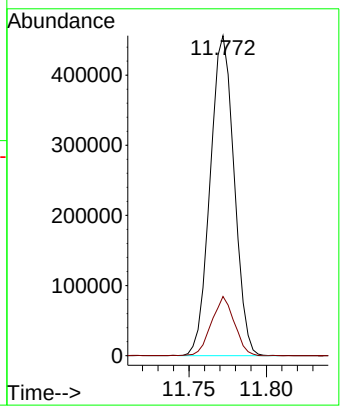


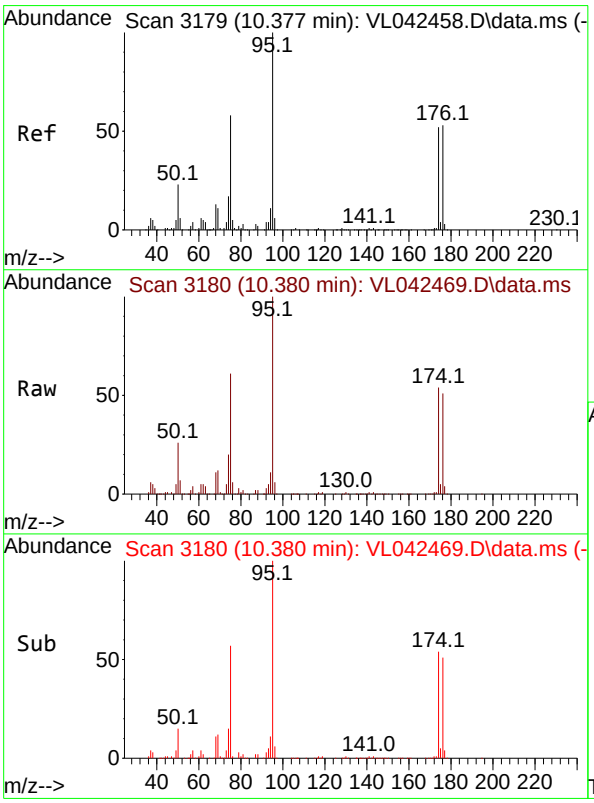
#67
sec-Butylbenzene
Concen: 10.568 ppbv
RT: 11.772 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042469.D
Acq: 05 May 2025 08:29

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion:105 Resp: 490679

Ion	Ratio	Lower	Upper
105	100		
134	17.8	14.1	21.1

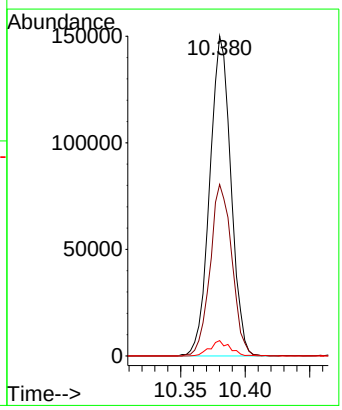


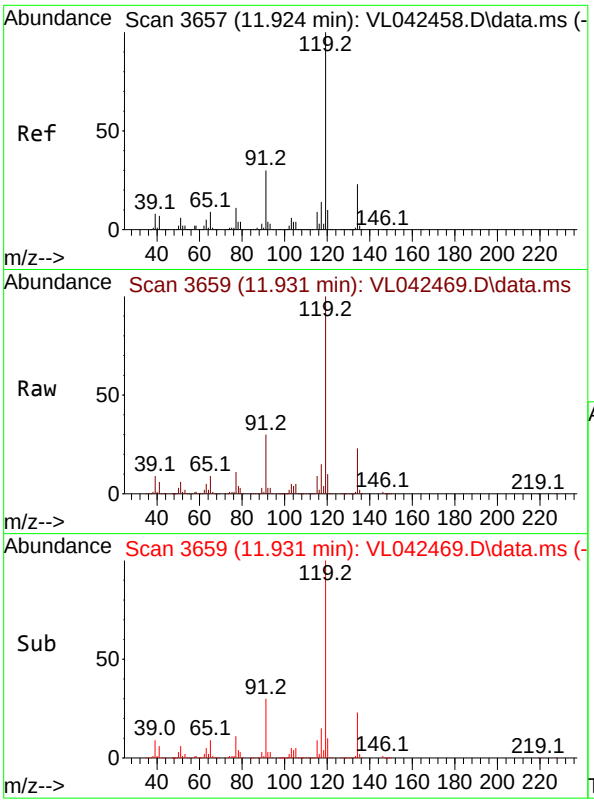


#68
1-Bromo-4-Fluorobenzene
Concen: 10.212 ppbv
RT: 10.380 min Scan# 3180
Delta R.T. 0.003 min
Lab File: VL042469.D
Acq: 05 May 2025 08:29

Tgt Ion: 95 Resp: 171319

Ion	Ratio	Lower	Upper
95	100		
174	55.4	42.7	64.1
175	4.6	3.6	5.4



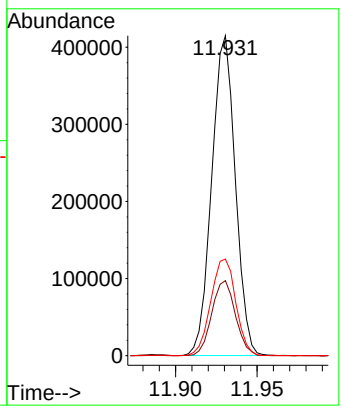


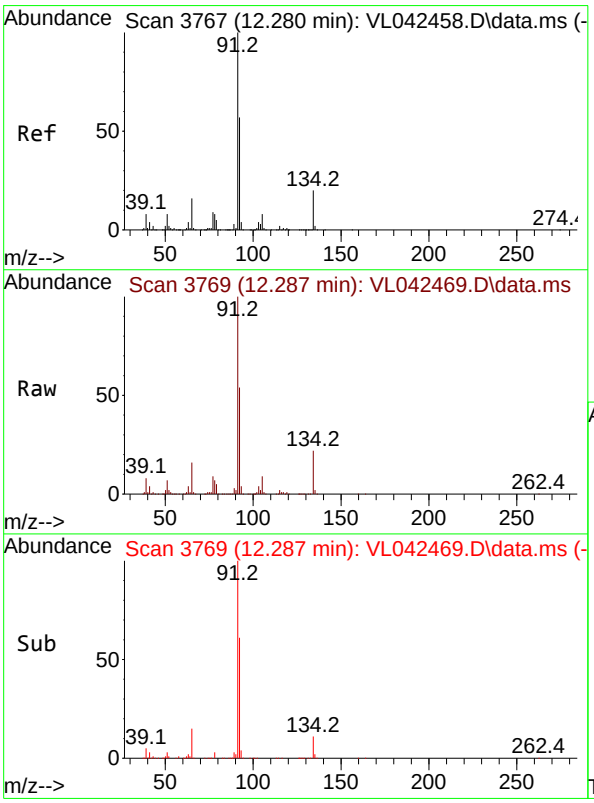
#69
p-Isopropyltoluene
Concen: 10.663 ppbv
RT: 11.931 min Scan# 3
Delta R.T. 0.007 min
Lab File: VL042469.D
Acq: 05 May 2025 08:29

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion:119 Resp: 417116

Ion	Ratio	Lower	Upper
119	100		
134	23.6	19.0	28.4
91	32.4	25.5	38.3

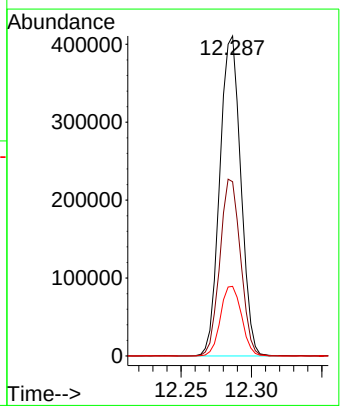


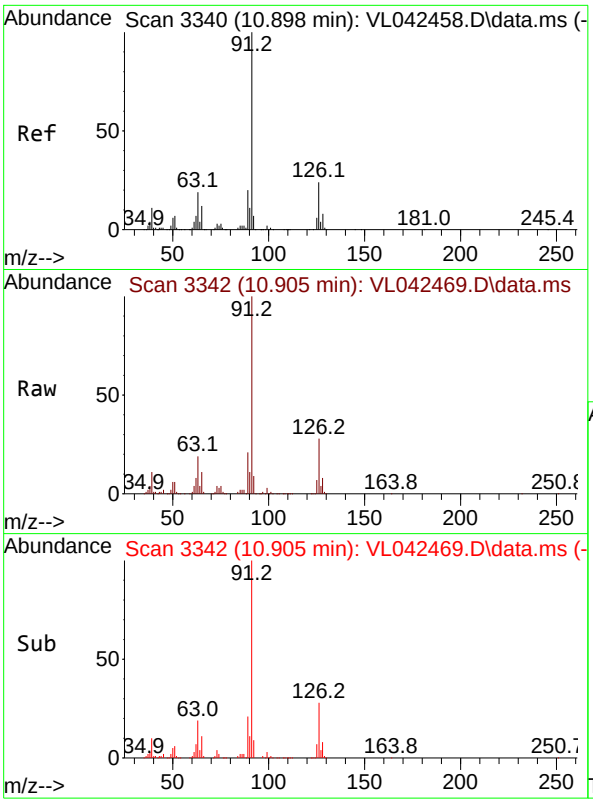


#70
n-Butylbenzene
Concen: 10.561 ppbv
RT: 12.287 min Scan# 3769
Delta R.T. 0.007 min
Lab File: VL042469.D
Acq: 05 May 2025 08:29

Tgt Ion: 91 Resp: 427083

Ion	Ratio	Lower	Upper
91	100		
92	54.5	44.0	66.0
134	21.8	16.8	25.2



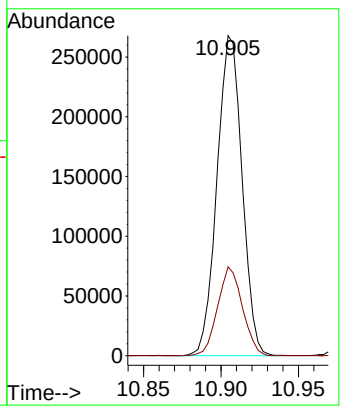


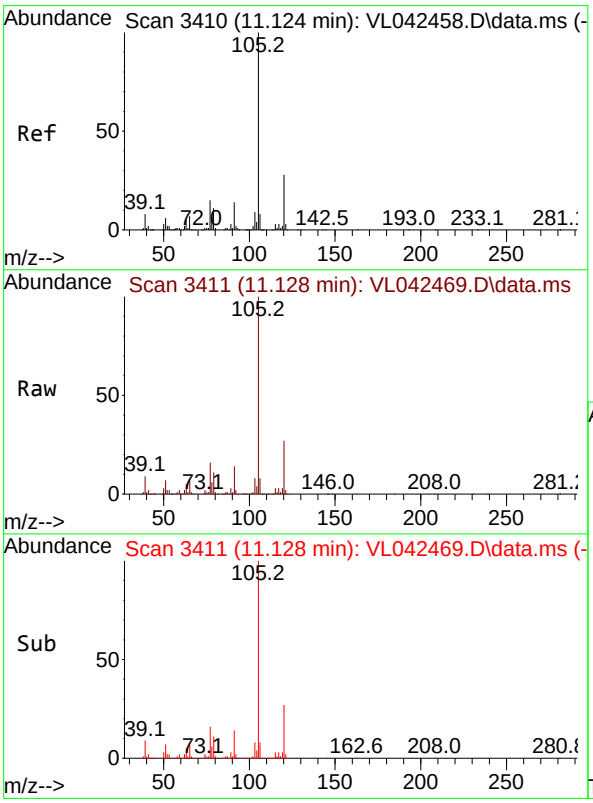
#71
2-Chlorotoluene
Concen: 10.504 ppbv
RT: 10.905 min Scan# 3
Delta R.T. 0.007 min
Lab File: VL042469.D
Acq: 05 May 2025 08:29

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 91 Resp: 301623

Ion	Ratio	Lower	Upper
91	100		
126	27.3	10.6	42.2

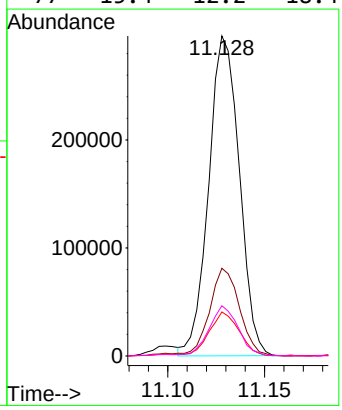


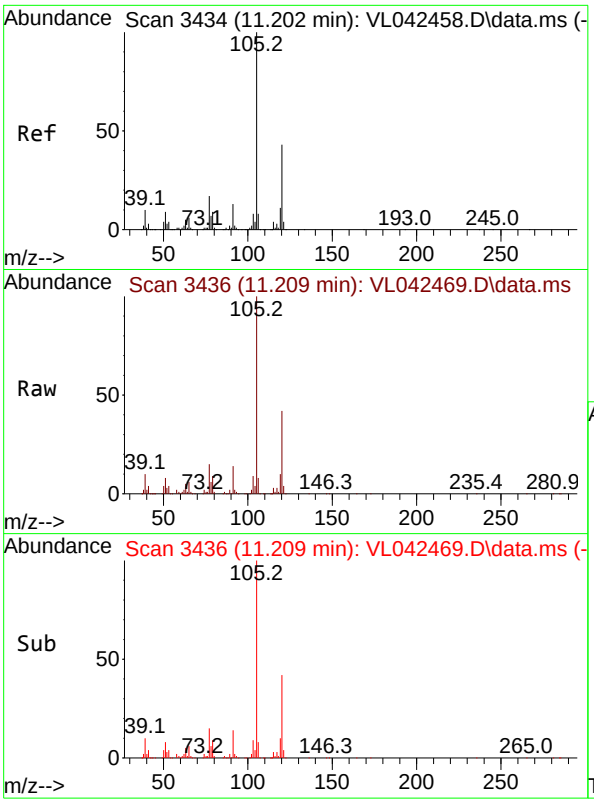


#72
4-Ethyltoluene
Concen: 10.905 ppbv
RT: 11.128 min Scan# 3411
Delta R.T. 0.003 min
Lab File: VL042469.D
Acq: 05 May 2025 08:29

Tgt Ion:105 Resp: 326323

Ion	Ratio	Lower	Upper
105	100		
120	27.3	22.0	33.0
91	14.3	11.2	16.8
77	15.4	12.2	18.4



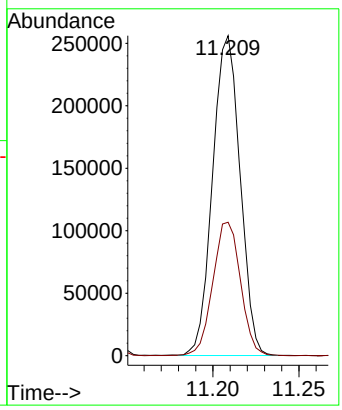


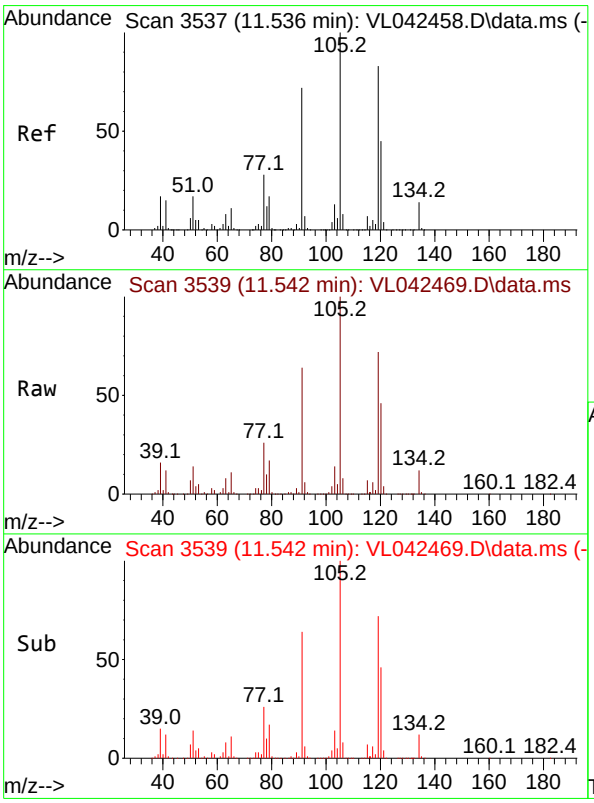
#73
1,3,5-Trimethylbenzene
Concen: 10.791 ppbv
RT: 11.209 min Scan# 34
Delta R.T. 0.007 min
Lab File: VL042469.D
Acq: 05 May 2025 08:29

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion:105 Resp: 283998

Ion	Ratio	Lower	Upper
105	100		
120	41.6	34.4	51.6

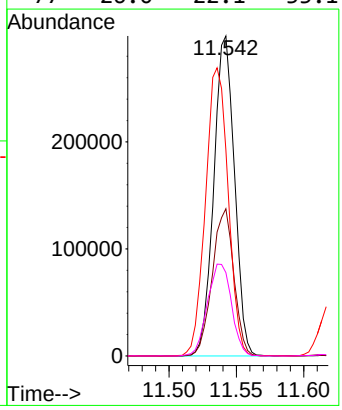


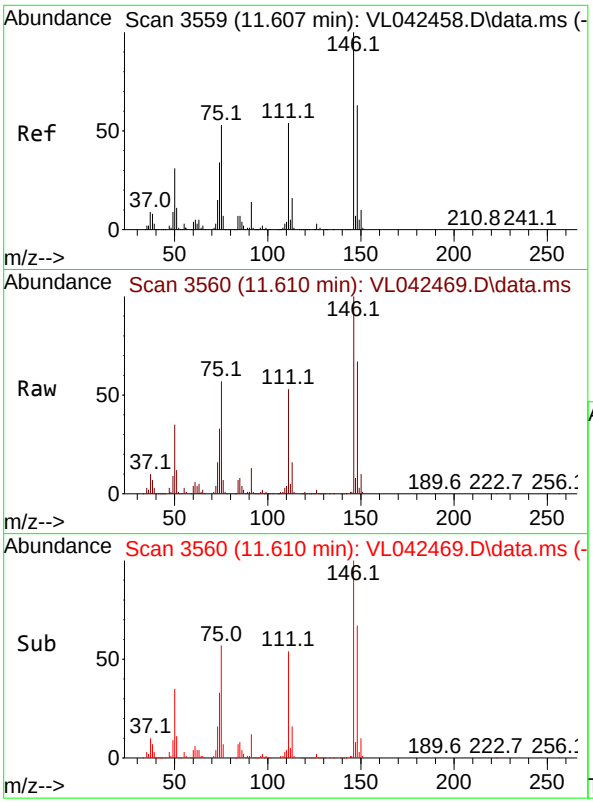


#74
1,2,4-Trimethylbenzene
Concen: 10.056 ppbv
RT: 11.542 min Scan# 3539
Delta R.T. 0.007 min
Lab File: VL042469.D
Acq: 05 May 2025 08:29

Tgt Ion:105 Resp: 320216

Ion	Ratio	Lower	Upper
105	100		
120	46.0	36.1	54.1
91	64.3	57.6	86.4
77	26.0	22.1	33.1



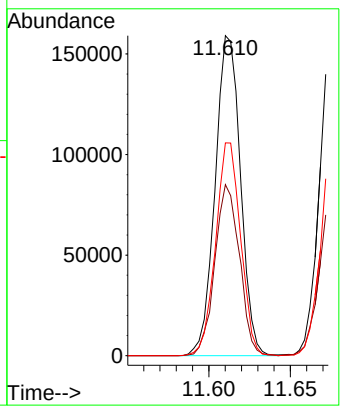


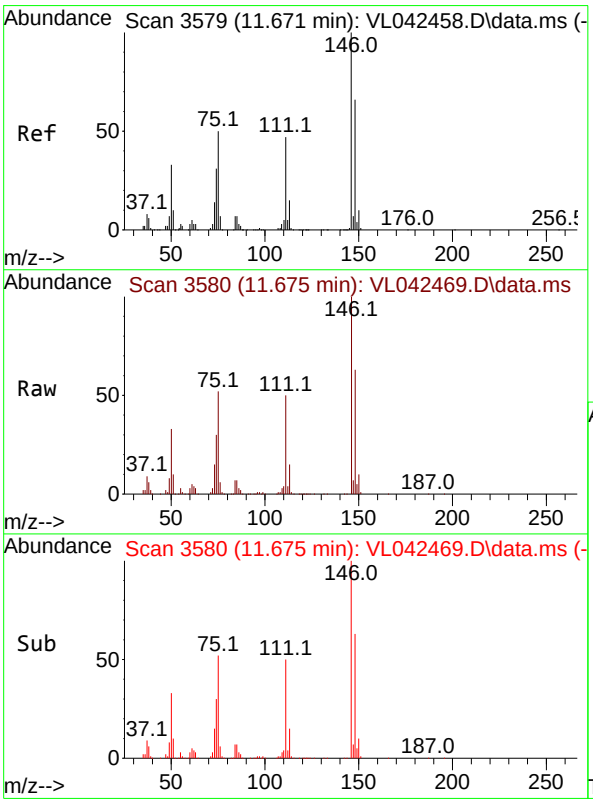
#75
1,3-Dichlorobenzene
Concen: 9.693 ppbv
RT: 11.610 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042469.D
Acq: 05 May 2025 08:29

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion:146 Resp: 171827

Ion	Ratio	Lower	Upper
146	100		
111	52.0	26.1	78.3
148	65.5	32.0	96.0

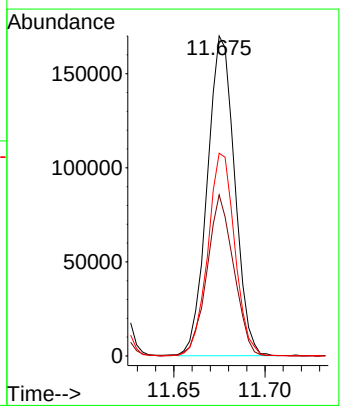


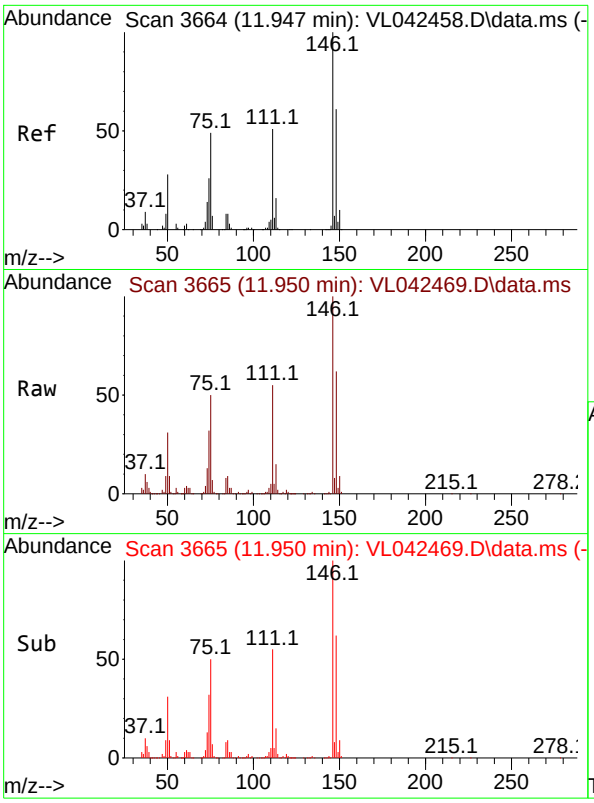


#76
1,4-Dichlorobenzene
Concen: 10.566 ppbv
RT: 11.675 min Scan# 3580
Delta R.T. 0.003 min
Lab File: VL042469.D
Acq: 05 May 2025 08:29

Tgt Ion:146 Resp: 177262

Ion	Ratio	Lower	Upper
146	100		
111	49.3	24.4	73.2
148	62.5	32.0	96.2



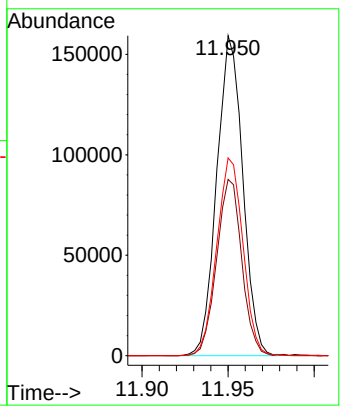


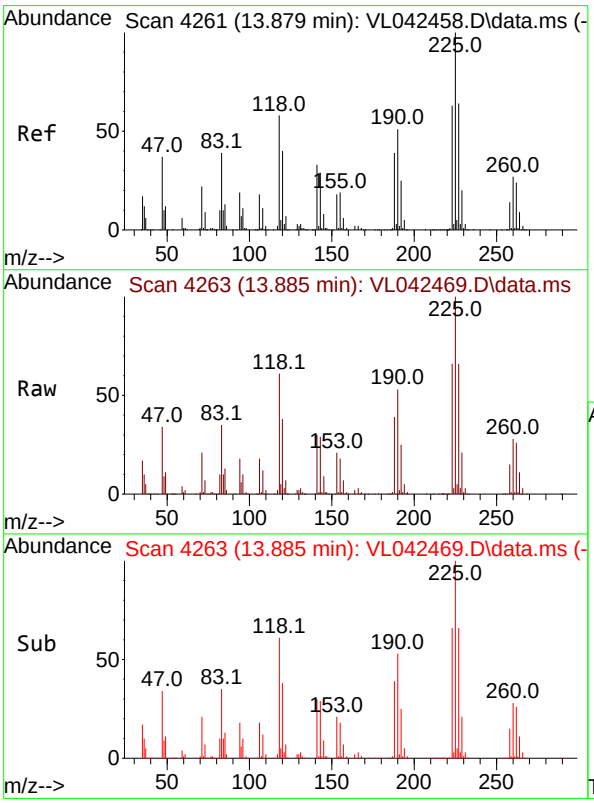
#77
1,2-Dichlorobenzene
Concen: 9.660 ppbv
RT: 11.950 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042469.D
Acq: 05 May 2025 08:29

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion:146 Resp: 167623

Ion	Ratio	Lower	Upper
146	100		
111	53.5	26.5	79.5
148	62.3	31.5	94.5

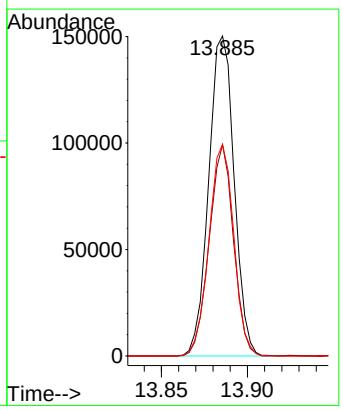


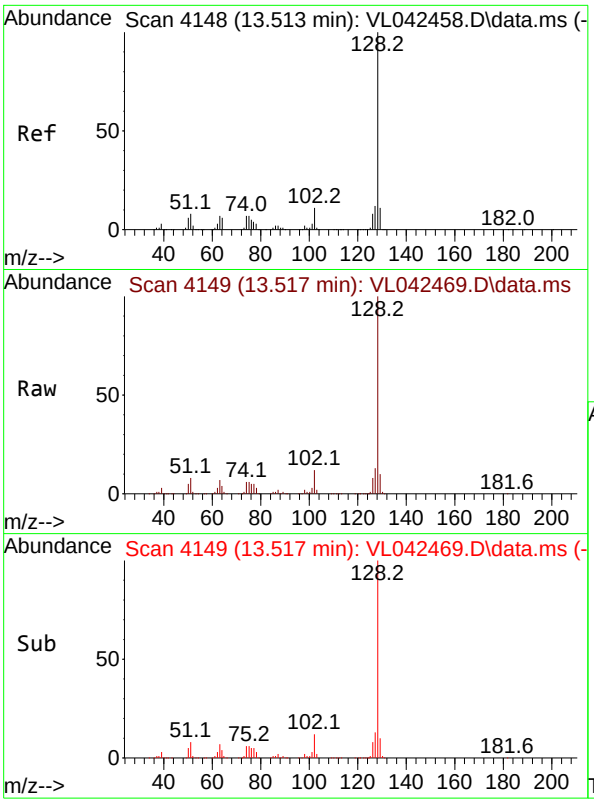


#78
Hexachloro-1,3-Butadiene
Concen: 8.913 ppbv
RT: 13.885 min Scan# 4263
Delta R.T. 0.007 min
Lab File: VL042469.D
Acq: 05 May 2025 08:29

Tgt Ion:225 Resp: 154431

Ion	Ratio	Lower	Upper
225	100		
223	62.9	50.2	75.4
227	64.6	51.2	76.8



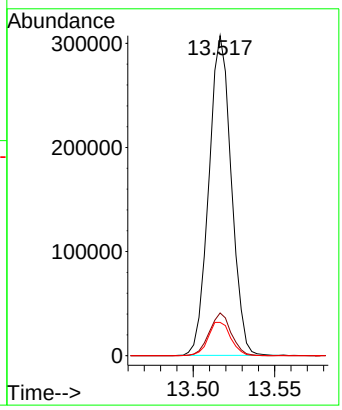


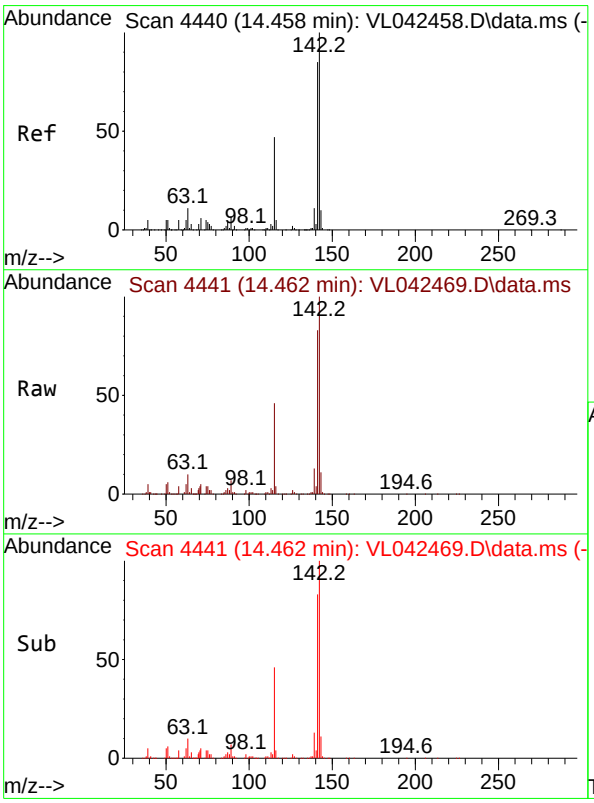
#79
Naphthalene
Concen: 10.970 ppbv
RT: 13.517 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL042469.D
Acq: 05 May 2025 08:29

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion:128 Resp: 294069

Ion	Ratio	Lower	Upper
128	100		
127	13.4	9.7	14.5
129	10.4	8.6	13.0

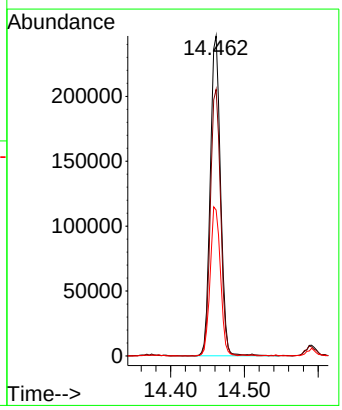


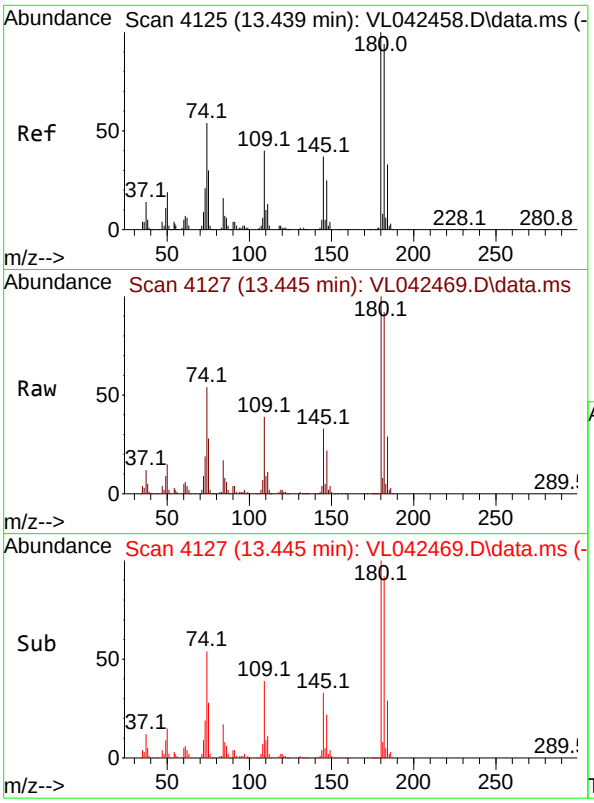


#80
Naphthalene,2-methyl-
Concen: 11.873 ppbv
RT: 14.462 min Scan# 4441
Delta R.T. 0.003 min
Lab File: VL042469.D
Acq: 05 May 2025 08:29

Tgt Ion:142 Resp: 236563

Ion	Ratio	Lower	Upper
142	100		
141	84.5	67.4	101.0
115	47.4	36.9	55.3



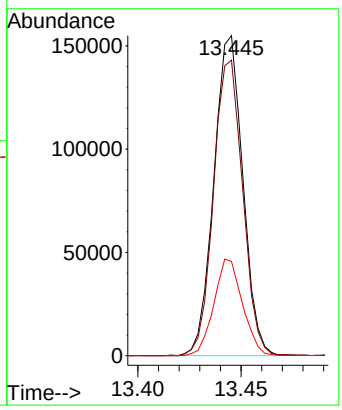


#81
1,2,4-Trichlorobenzene
Concen: 10.580 ppbv
RT: 13.445 min Scan# 4
Delta R.T. 0.007 min
Lab File: VL042469.D
Acq: 05 May 2025 08:29

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion:180 Resp: 151252

Ion	Ratio	Lower	Upper
180	100		
182	93.2	74.6	111.8
184	29.8	24.9	37.3



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050525\
Data File : VL042471.D
Acq On : 05 May 2025 10:07
Operator : SY/MD
Sample : VL0505ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0505ABS01

Quant Time: May 06 01:39:20 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri May 02 03:16:31 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.787	49	73094	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	206118	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	177063	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	168649	10.273	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 102.700%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	124629	10.303	ppbv	97
3) Chlorodifluoromethane	1.476	51	121193	9.477	ppbv	100
4) Chloromethane	1.531	50	48459	9.585	ppbv	97
5) Vinyl Chloride	1.580	62	48263	9.482	ppbv	97
6) Bromomethane	1.667	94	24122	10.030	ppbv	89
7) Chloroethane	1.703	64	19046	10.134	ppbv	97
8) Dichlorotetrafluoroethane	1.554	85	103007	10.330	ppbv	99
9) Propene	1.483	41	38988	9.321	ppbv	99
10) Heptane	4.985	43	44026	4.058	ppbv #	1
11) Trichlorofluoromethane	1.878	101	115696	10.365	ppbv	100
12) 1,1,2-Trichlorotrifluo...	2.140	101	90819	10.191	ppbv	99
13) Ethanol	1.722	45	5973	7.037	ppbv	99
14) Bromoethene	1.780	108	33388	10.148	ppbv	98
15) Acetone	1.835	43	106709	7.997	ppbv	99
16) 1,3-Butadiene	1.609	39	57359	9.746	ppbv	99
17) tert-Butyl alcohol	2.039	59	117319	9.980	ppbv	98
18) 1,1-Dichloroethene	2.033	96	41229	9.907	ppbv	98
19) Isopropyl Alcohol	1.887	45	70522	9.550	ppbv	100
20) Methylene Chloride	2.062	84	35706	8.901	ppbv	94
21) Allyl Chloride	2.094	41	84722	9.873	ppbv	98
22) trans-1,2-Dichloroethene	2.340	96	46305	9.528	ppbv	95
23) Vinyl Acetate	2.463	43	130023	10.210	ppbv #	97
24) 1,1-Dichloroethane	2.408	63	98989	9.984	ppbv	99
25) Ethyl Acetate	2.836	43	207844	9.728	ppbv	100
26) Hexane	2.826	57	90030	9.673	ppbv	98
27) Carbon Disulfide	2.149	76	115286	10.614	ppbv	94
28) Methyl tert-Butyl Ether	2.441	73	58319	10.429	ppbv	100
29) Chloroform	2.849	83	168484	9.660	ppbv	98
30) Cyclohexane	3.858	84	78428	10.078	ppbv	97
31) cis-1,2-Dichloroethene	2.722	61	104191	9.595	ppbv	97
32) 1,1,1-Trichloroethane	3.370	97	182273	9.632	ppbv	99
34) 2-Butanone	2.557	43	133597	8.961	ppbv	95
35) Carbon Tetrachloride	3.761	117	188916	10.090	ppbv	95
36) Benzene	3.661	78	188320	9.682	ppbv	97
37) 1,2-Dichloroethane	3.221	62	145347	9.695	ppbv	100
38) Trichloroethene	4.548	130	44769	6.035	ppbv	96
39) 1,2-Dichloropropane	4.315	63	66905	9.188	ppbv	88
40) 1,4-Dioxane	4.580	88	31401	9.209	ppbv #	100
41) Tetrahydrofuran	3.056	42	66257	9.351	ppbv	97
42) Bromodichloromethane	4.489	83	189214	10.330	ppbv	93
43) Methyl Methacrylate	4.881	69	74953	10.326	ppbv	97
44) 2,2,4-Trimethylpentane	4.642	57	307008	9.737	ppbv	99
45) t-1,3-Dichloropropene	6.415	75	103231	10.841	ppbv	98

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050525\
Data File : VL042471.D
Acq On : 05 May 2025 10:07
Operator : SY/MD
Sample : VL0505ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0505ABS01

Quant Time: May 06 01:39:20 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri May 02 03:16:31 2025
Response via : Initial Calibration

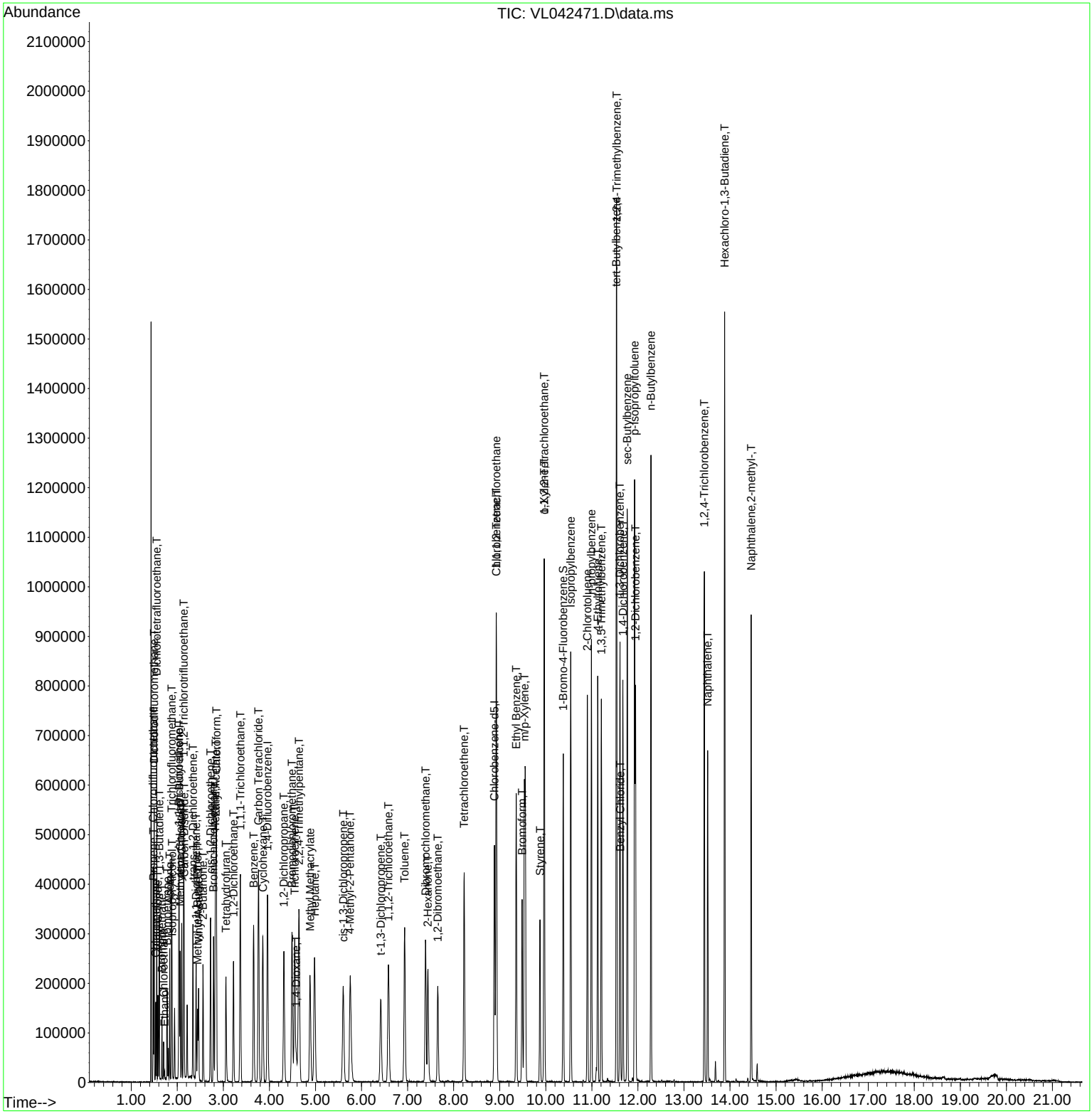
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) cis-1,3-Dichloropropene	5.603	75	116725	10.313	ppbv		95
47) 1,1,2-Trichloroethane	6.584	97	77049	9.648	ppbv	#	92
48) Dibromochloromethane	7.390	129	138518	10.274	ppbv		97
49) Bromoform	9.487	173	114364	10.115	ppbv		99
50) 4-Methyl-2-Pentanone	5.752	43	177898	9.433	ppbv		99
51) 2-Hexanone	7.438	43	145213	9.631	ppbv		98
52) Tetrachloroethene	8.228	164	67191	9.076	ppbv		86
53) Toluene	6.936	91	214815	10.434	ppbv		98
54) 1,2-Dibromoethane	7.655	107	117449	9.619	ppbv		97
56) 1,1,1,2-Tetrachloroethane	8.927	131	103494	9.897	ppbv		98
57) Chlorobenzene	8.924	112	168941	9.495	ppbv		94
58) Ethyl Benzene	9.357	91	312698	10.568	ppbv		96
59) m/p-Xylene	9.539	91	247023	9.958	ppbv	#	33
60) o-Xylene	9.966	91	267198	10.758	ppbv		100
61) Styrene	9.875	104	103232	11.138	ppbv		97
62) Isopropylbenzene	10.542	105	380840	10.630	ppbv		100
63) 1,1,2,2-Tetrachloroethane	9.966	83	155457	9.079	ppbv		100
64) n-propylbenzene	10.992	120	93814	10.714	ppbv		94
65) tert-Butylbenzene	11.532	119	342014	10.697	ppbv		97
66) Benzyl Chloride	11.620	91	45711	12.370	ppbv		98
67) sec-Butylbenzene	11.769	105	480000	10.565	ppbv		99
69) p-Isopropyltoluene	11.927	119	412889	10.786	ppbv		99
70) n-Butylbenzene	12.283	91	425652	10.756	ppbv		98
71) 2-Chlorotoluene	10.905	91	301813	10.741	ppbv		100
72) 4-Ethyltoluene	11.128	105	326835	11.161	ppbv		99
73) 1,3,5-Trimethylbenzene	11.206	105	280716	10.900	ppbv		97
74) 1,2,4-Trimethylbenzene	11.539	105	316052	10.143	ppbv		99
75) 1,3-Dichlorobenzene	11.610	146	174274	10.046	ppbv		97
76) 1,4-Dichlorobenzene	11.675	146	174860	10.651	ppbv		98
77) 1,2-Dichlorobenzene	11.950	146	166423	9.801	ppbv		99
78) Hexachloro-1,3-Butadiene	13.882	225	153156	9.032	ppbv		99
79) Naphthalene	13.513	128	286218	10.911	ppbv		97
80) Naphthalene,2-methyl-	14.458	142	232641	11.932	ppbv		99
81) 1,2,4-Trichlorobenzene	13.442	180	147081	10.513	ppbv		99

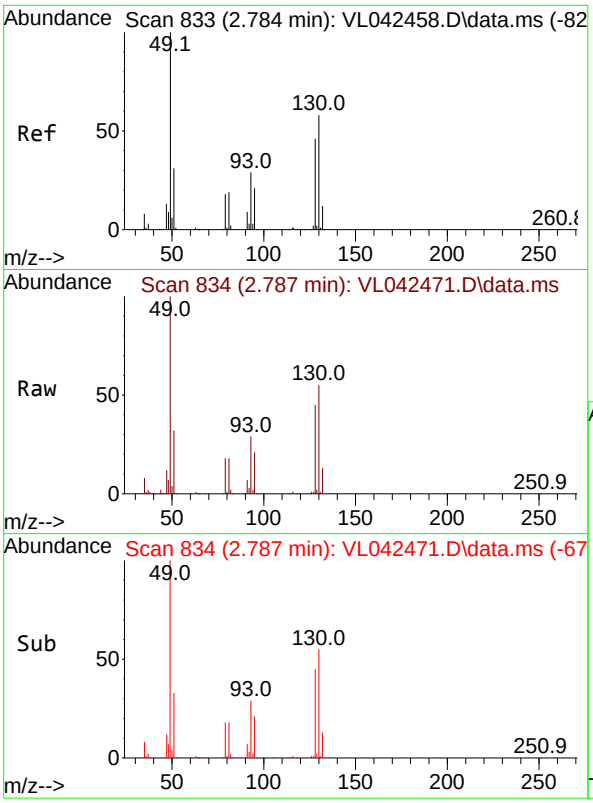
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050525\
Data File : VL042471.D
Acq On : 05 May 2025 10:07
Operator : SY/MD
Sample : VL0505ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0505ABS01

Quant Time: May 06 01:39:20 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri May 02 03:16:31 2025
Response via : Initial Calibration


Abundance
TIC: VL042471.D\data.ms
Time-->
Hexachloro-1,3-Butadiene,T
Naphthalene,2-methyl-,T
1,2,4-Trichlorobenzene,T
Naphthalene,I
n-Butylbenzene
sec-Butylbenzene
p-Isopropyltoluene
1,2-Dichlorobenzene,T
1,4-Dichlorobenzene,T
Benzyl Chloride,T
tert-Butylbenzene
1,2,4-Trimethylbenzene,T
1,3,5-Trimethylbenzene
2-Chlorotoluene
Isopropylbenzene
1-Bromo-4-Fluorobenzene,S
Styrene,T
Bromoform,T
Ethyl Benzene,T
m/p-Xylene,T
Chlorobenzene-d5,I
Chlorobenzene,T
Tetrachloroethene,T
1,1,2,2-Tetrachloroethane,T
t-1,3-Dichloropropene,T
1,1,2-Trichloroethane,T
Toluene,T
2-Hexanone,T
Dibromochloromethane,T
1,2-Dibromoethane,T
cis-1,3-Dichloropropene,T
4-Methyl-2-pentanone,T
Methyl Methacrylate,T
1,2-Dichloropropane,T
1,4-Dioxane,T
Heptane,T
Trichloroethene,T
Methylcyclohexane,T
Bromodichloromethane,T
Tetrahydrofuran,T
1,2-Dichloroethane,T
1,1,1-Trichloroethane,T
Benzene,T
Carbon Tetrachloride,T
Cyclohexane,T
1,4-Difluorobenzene,I
Chloroform,T
Bromochloromethane,T
2,2-Dichloropropane,T
1,1-Dichloropropene,T
Trichlorofluoromethane,T
Ethanol,T
Acetone,T
Isopropyl Alcohol,T
Acetonitrile,T
Dichlorodifluoromethane,T
Propylene,T
Chloromethane,T
Propane,T
Dichlorotetrafluoroethane,T
Chloroethane,T
1,3-Butadiene,T
Bromomethane

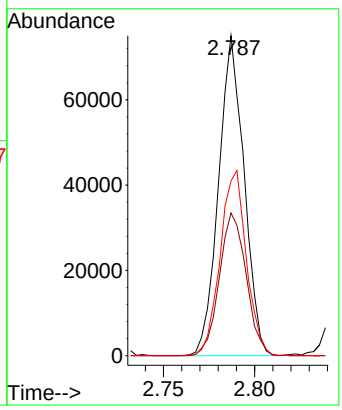


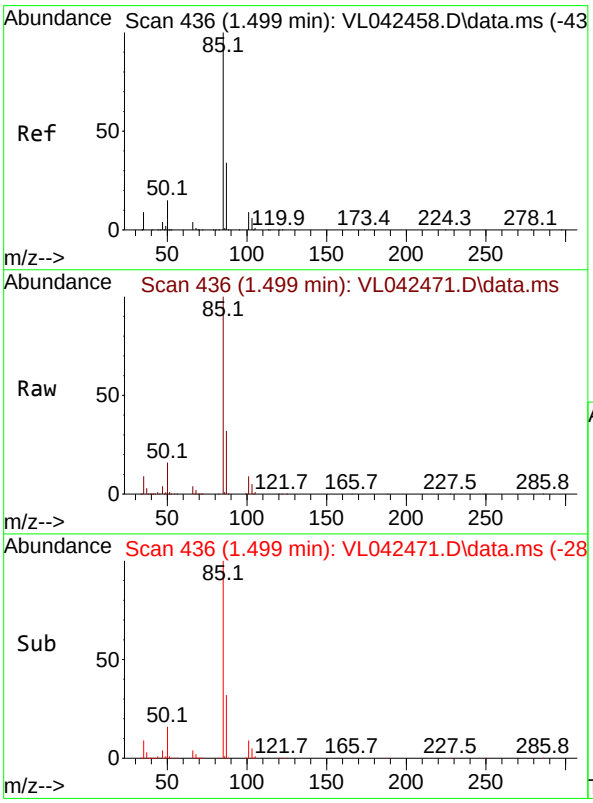
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042471.D
Acq: 05 May 2025 10:07

Instrument :
MSVOA_L
ClientSampleId :
VL0505ABS01

Tgt Ion: 49 Resp: 73094

Ion	Ratio	Lower	Upper
49	100		
128	46.9	23.3	69.9
130	59.3	29.5	88.6

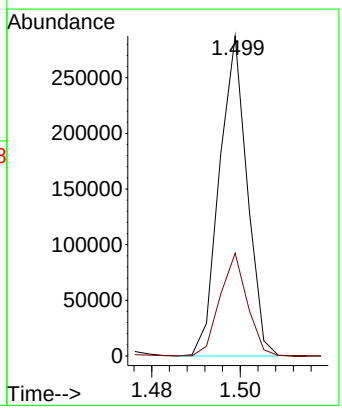


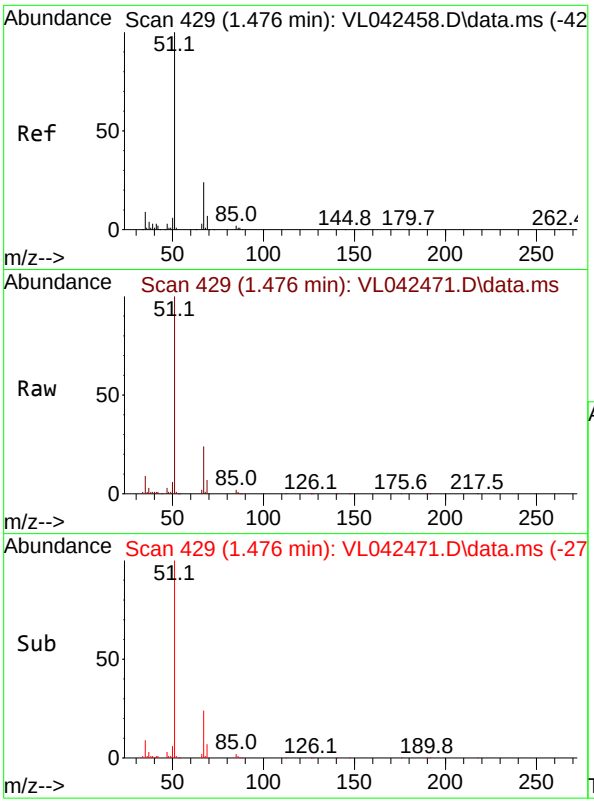


#2
Dichlorodifluoromethane
Concen: 10.303 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.000 min
Lab File: VL042471.D
Acq: 05 May 2025 10:07

Tgt Ion: 85 Resp: 124629

Ion	Ratio	Lower	Upper
85	100		
87	32.1	26.9	40.3



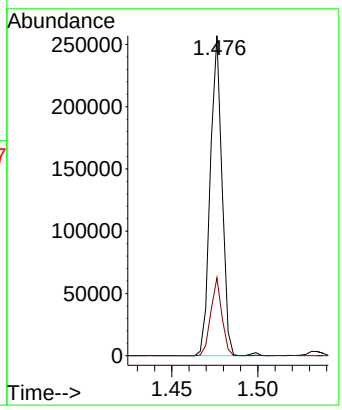


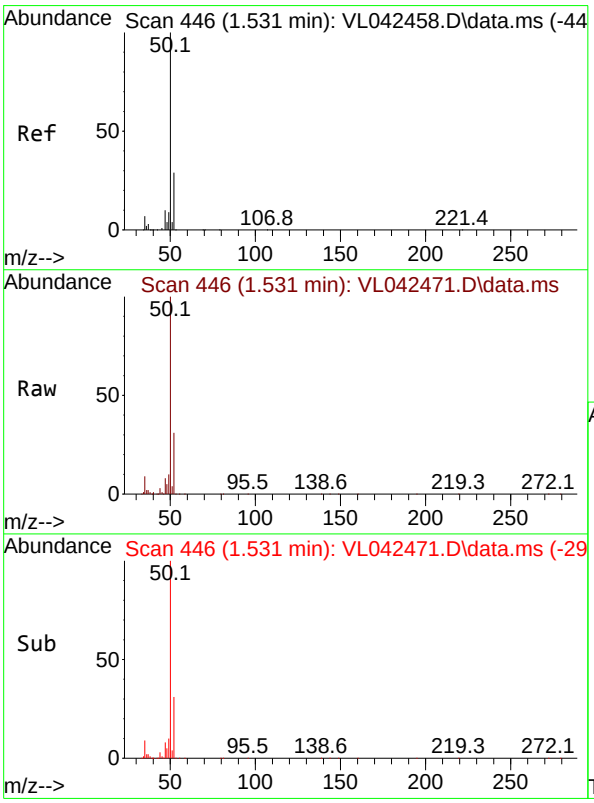
#3
Chlorodifluoromethane
Concen: 9.477 ppbv
RT: 1.476 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042471.D
Acq: 05 May 2025 10:07

Instrument :
MSVOA_L
ClientSampleId :
VL0505ABS01

Tgt Ion: 51 Resp: 121193

Ion	Ratio	Lower	Upper
51	100		
67	23.1	18.4	27.6

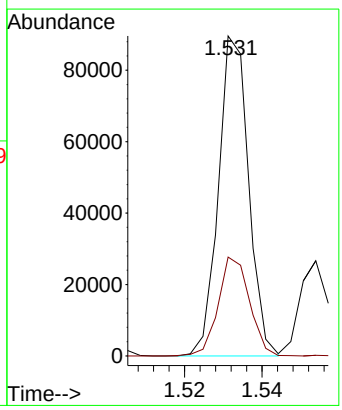


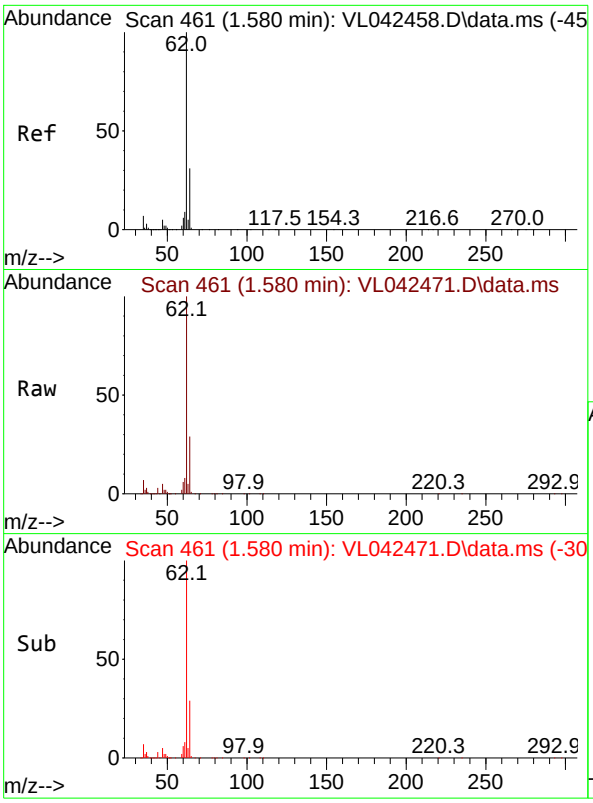


#4
Chloromethane
Concen: 9.585 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL042471.D
Acq: 05 May 2025 10:07

Tgt Ion: 50 Resp: 48459

Ion	Ratio	Lower	Upper
50	100		
52	30.8	23.5	35.3



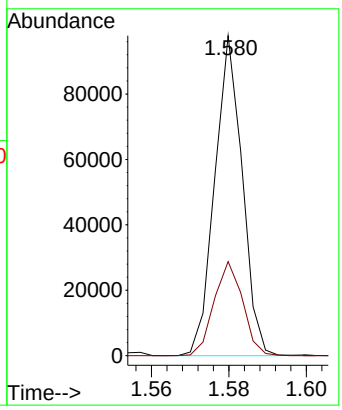


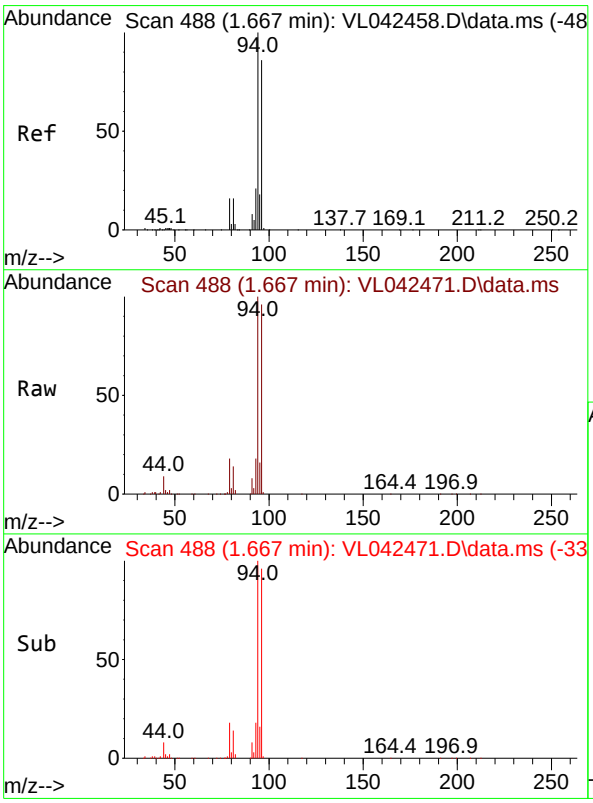
#5
Vinyl Chloride
Concen: 9.482 ppbv
RT: 1.580 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042471.D
Acq: 05 May 2025 10:07

Instrument :
MSVOA_L
ClientSampleId :
VL0505ABS01

Tgt Ion: 62 Resp: 48263

Ion	Ratio	Lower	Upper
62	100		
64	29.3	24.9	37.3

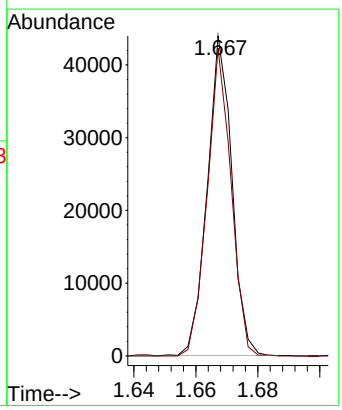


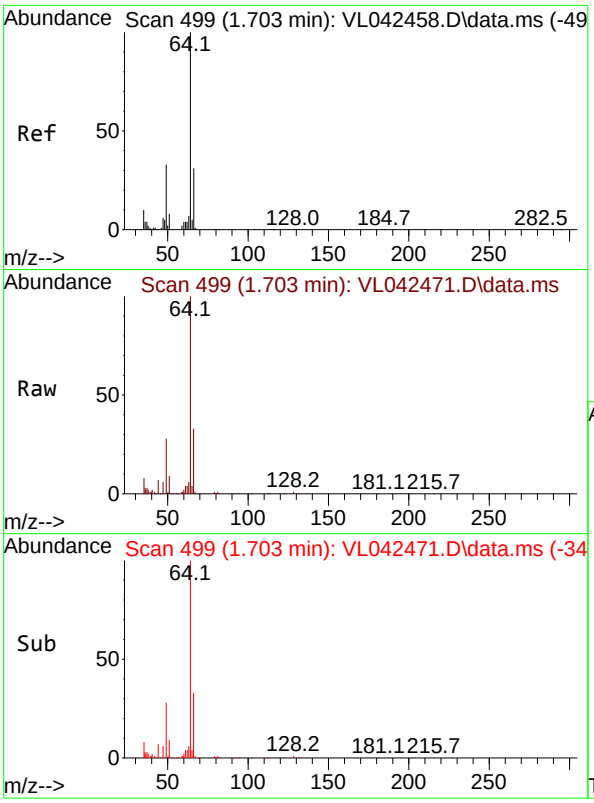


#6
Bromomethane
Concen: 10.030 ppbv
RT: 1.667 min Scan# 488
Delta R.T. 0.000 min
Lab File: VL042471.D
Acq: 05 May 2025 10:07

Tgt Ion: 94 Resp: 24122

Ion	Ratio	Lower	Upper
94	100		
96	96.4	68.8	103.2



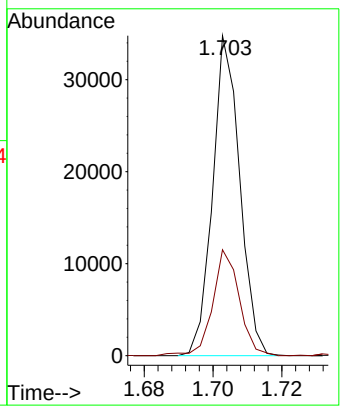


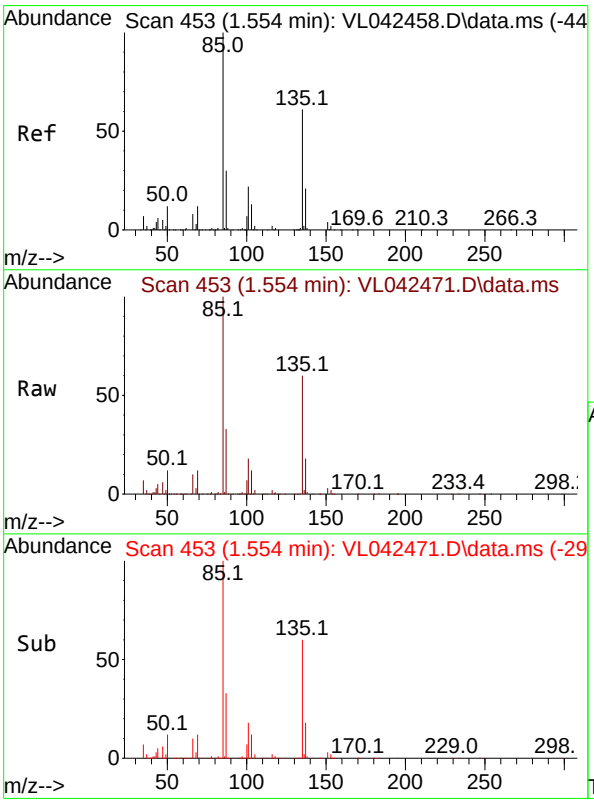
#7
Chloroethane
Concen: 10.134 ppbv
RT: 1.703 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042471.D
Acq: 05 May 2025 10:07

Instrument :
MSVOA_L
ClientSampleId :
VL0505ABS01

Tgt Ion: 64 Resp: 19046

Ion	Ratio	Lower	Upper
64	100		
66	33.1	25.0	37.4

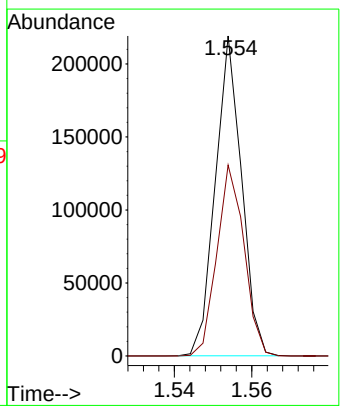


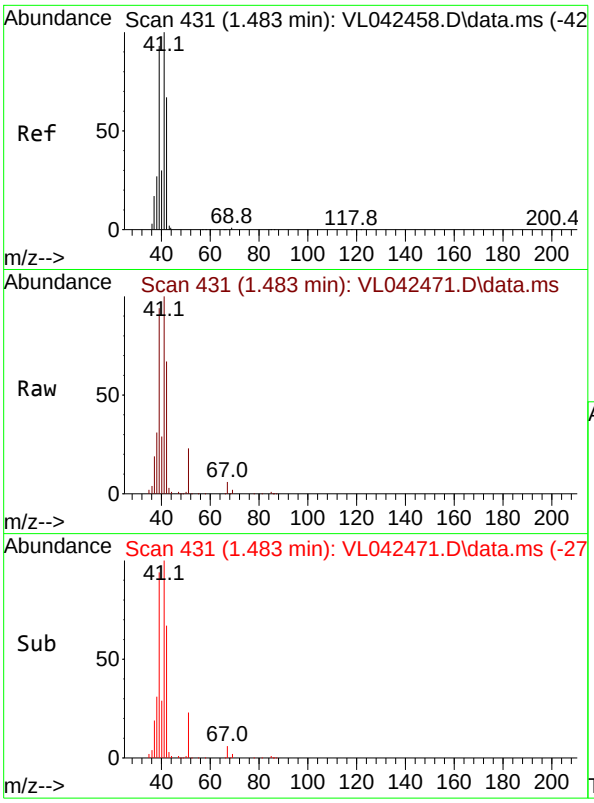


#8
Dichlorotetrafluoroethane
Concen: 10.330 ppbv
RT: 1.554 min Scan# 453
Delta R.T. 0.000 min
Lab File: VL042471.D
Acq: 05 May 2025 10:07

Tgt Ion: 85 Resp: 103007

Ion	Ratio	Lower	Upper
85	100		
135	61.9	49.8	74.8



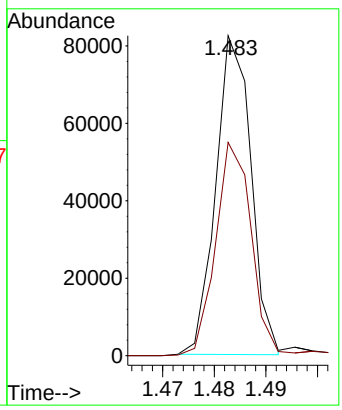


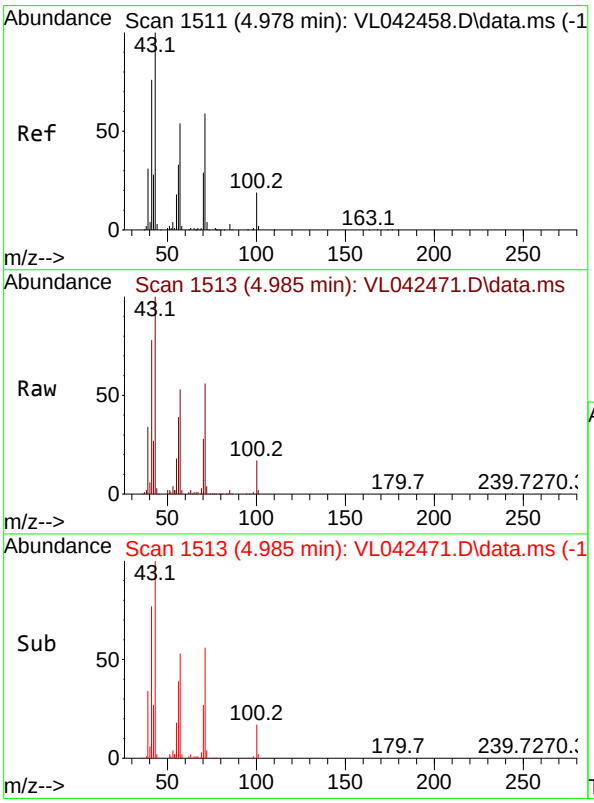
#9
Propene
Concen: 9.321 ppbv
RT: 1.483 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042471.D
Acq: 05 May 2025 10:07

Instrument :
MSVOA_L
ClientSampleId :
VL0505ABS01

Tgt Ion: 41 Resp: 38988

Ion	Ratio	Lower	Upper
41	100		
42	69.1	54.3	81.5

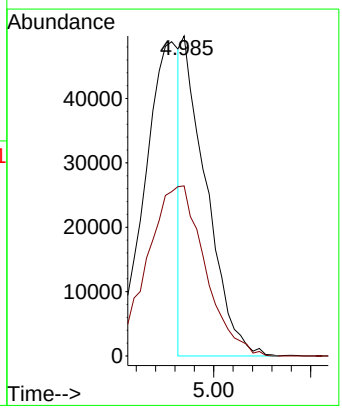


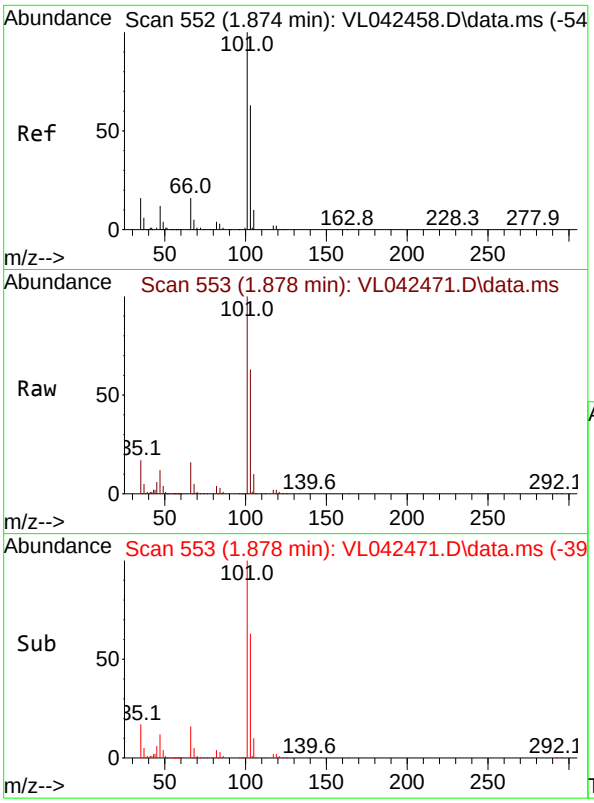


#10
Heptane
Concen: 4.058 ppbv
RT: 4.985 min Scan# 1513
Delta R.T. 0.007 min
Lab File: VL042471.D
Acq: 05 May 2025 10:07

Tgt Ion: 43 Resp: 44026

Ion	Ratio	Lower	Upper
43	100		
57	125.1	41.8	62.8#



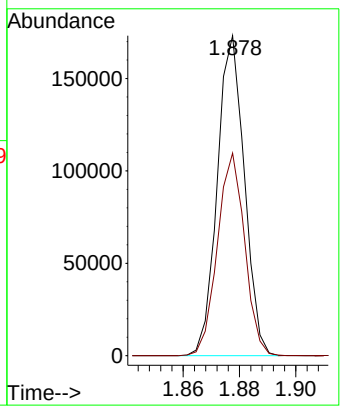


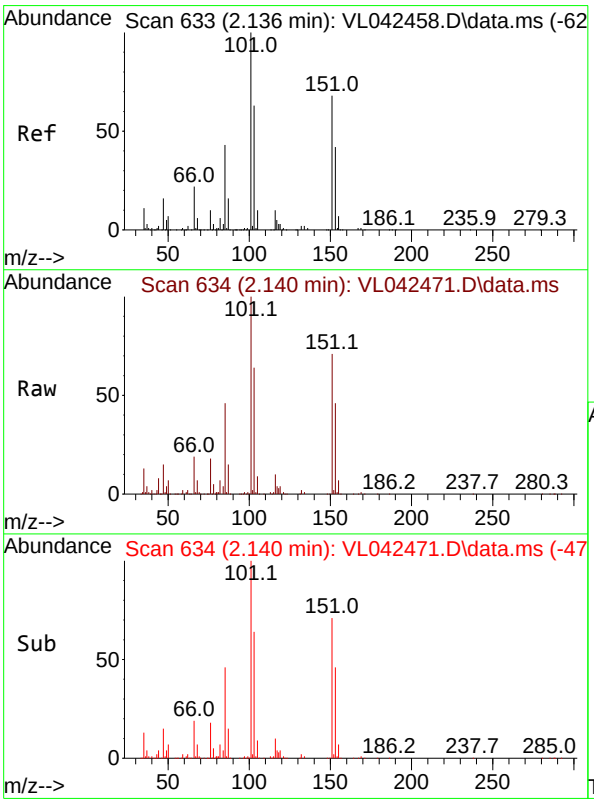
#11
Trichlorofluoromethane
Concen: 10.365 ppbv
RT: 1.878 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042471.D
Acq: 05 May 2025 10:07

Instrument :
MSVOA_L
ClientSampleId :
VL0505ABS01

Tgt Ion:101 Resp: 115696

Ion	Ratio	Lower	Upper
101	100		
103	63.3	50.6	76.0

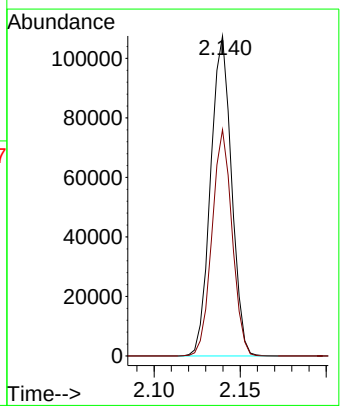


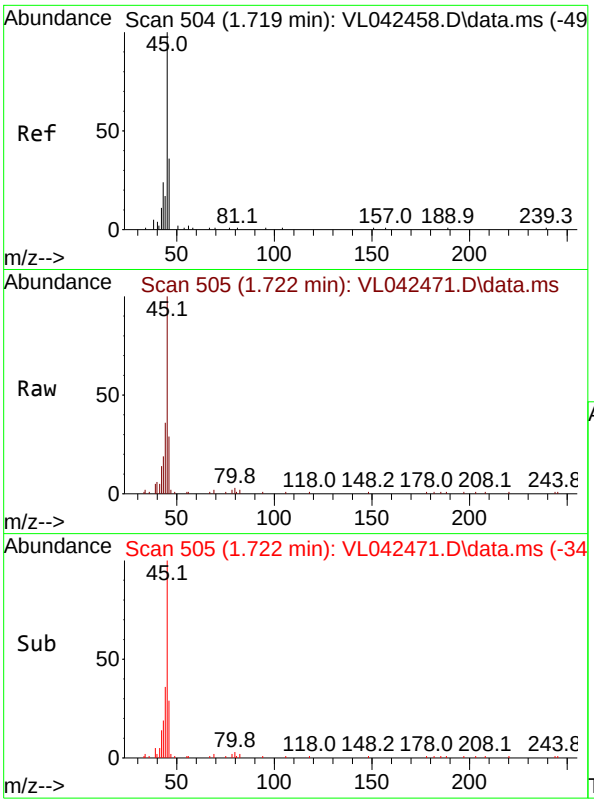


#12
1,1,2-Trichlorotrifluoroethane
Concen: 10.191 ppbv
RT: 2.140 min Scan# 634
Delta R.T. 0.003 min
Lab File: VL042471.D
Acq: 05 May 2025 10:07

Tgt Ion:101 Resp: 90819

Ion	Ratio	Lower	Upper
101	100		
151	67.9	54.6	82.0



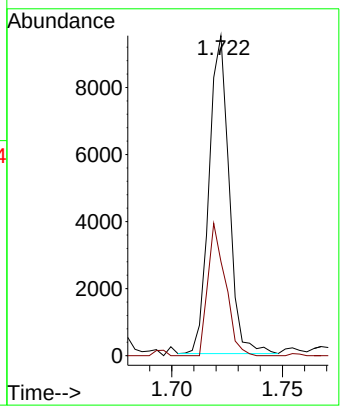


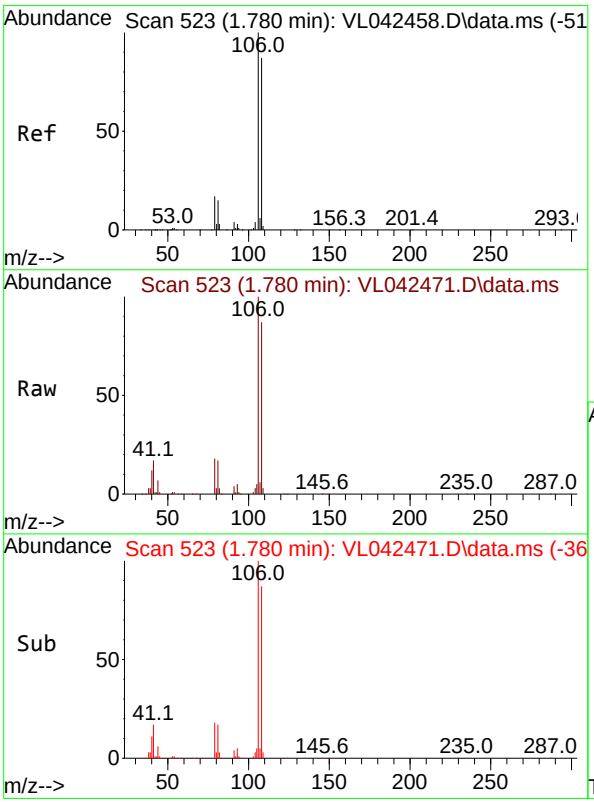
#13
Ethanol
Concen: 7.037 ppbv
RT: 1.722 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042471.D
Acq: 05 May 2025 10:07

Instrument :
MSVOA_L
ClientSampleId :
VL0505ABS01

Tgt Ion: 45 Resp: 5973

Ion	Ratio	Lower	Upper
45	100		
46	37.9	15.3	61.1

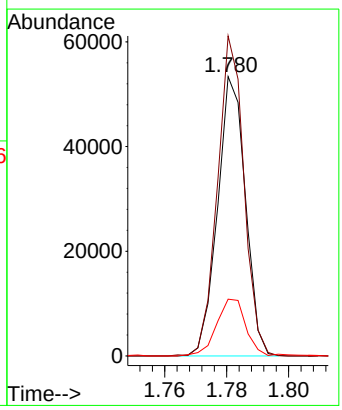


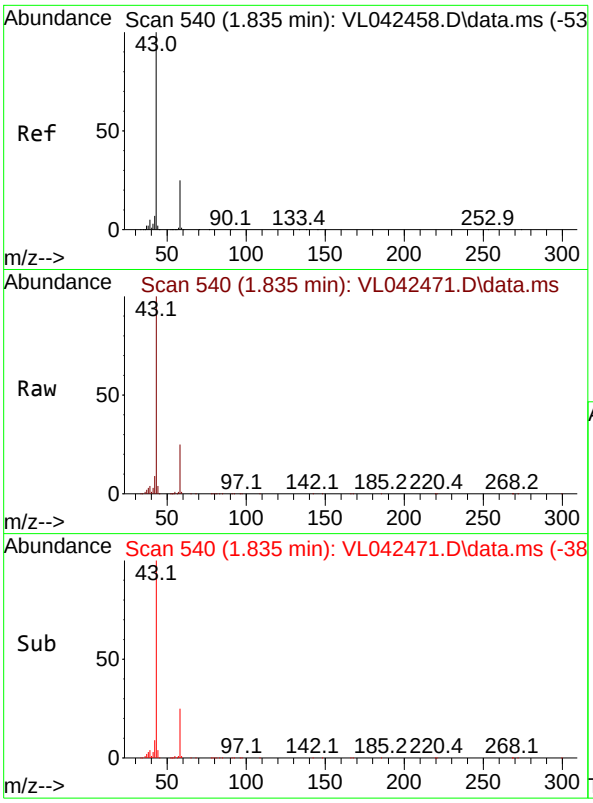


#14
Bromoethene
Concen: 10.148 ppbv
RT: 1.780 min Scan# 523
Delta R.T. 0.000 min
Lab File: VL042471.D
Acq: 05 May 2025 10:07

Tgt Ion:108 Resp: 33388

Ion	Ratio	Lower	Upper
108	100		
106	108.6	88.8	133.2
79	21.8	17.1	25.7



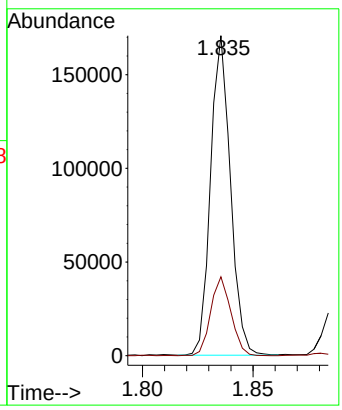


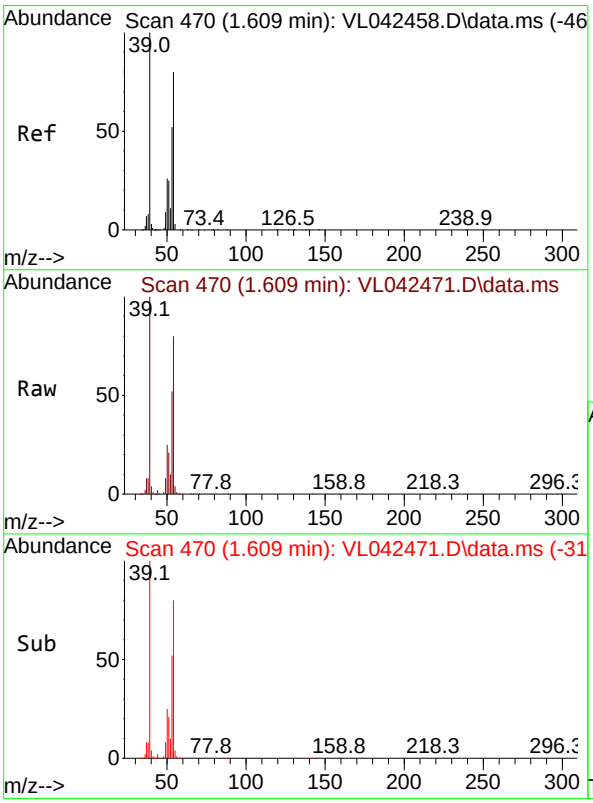
#15
Acetone
Concen: 7.997 ppbv
RT: 1.835 min Scan# 54
Delta R.T. 0.000 min
Lab File: VL042471.D
Acq: 05 May 2025 10:07

Instrument :
MSVOA_L
ClientSampleId :
VL0505ABS01

Tgt Ion: 43 Resp: 106709

Ion	Ratio	Lower	Upper
43	100		
58	25.2	19.8	29.8

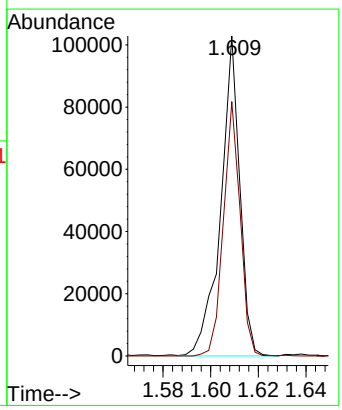


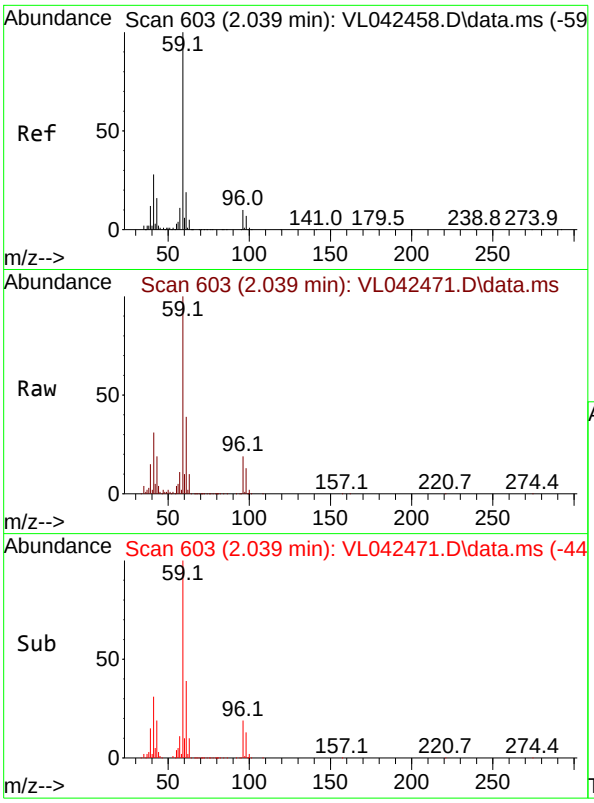


#16
1,3-Butadiene
Concen: 9.746 ppbv
RT: 1.609 min Scan# 470
Delta R.T. 0.000 min
Lab File: VL042471.D
Acq: 05 May 2025 10:07

Tgt Ion: 39 Resp: 57359

Ion	Ratio	Lower	Upper
39	100		
54	69.5	55.2	82.8



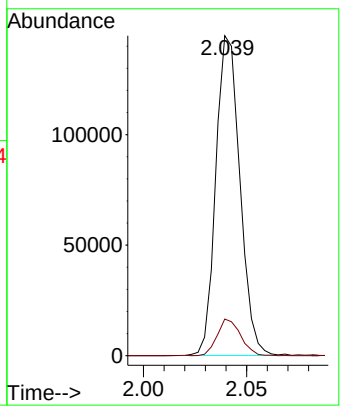


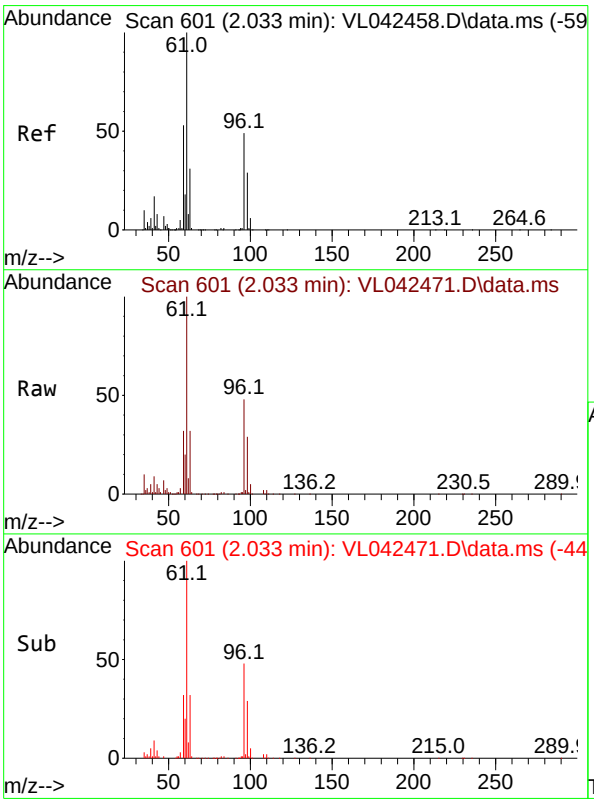
#17
tert-Butyl alcohol
Concen: 9.980 ppbv
RT: 2.039 min Scan# 6
Delta R.T. 0.000 min
Lab File: VL042471.D
Acq: 05 May 2025 10:07

Instrument :
MSVOA_L
ClientSampleId :
VL0505ABS01

Tgt Ion: 59 Resp: 117319

Ion	Ratio	Lower	Upper
59	100		
57	11.2	8.3	12.5

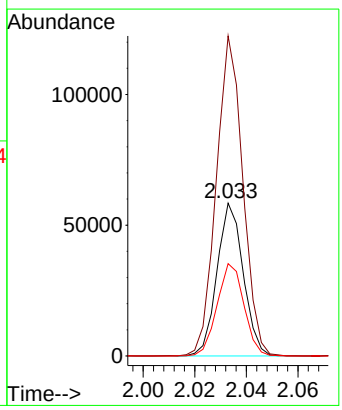


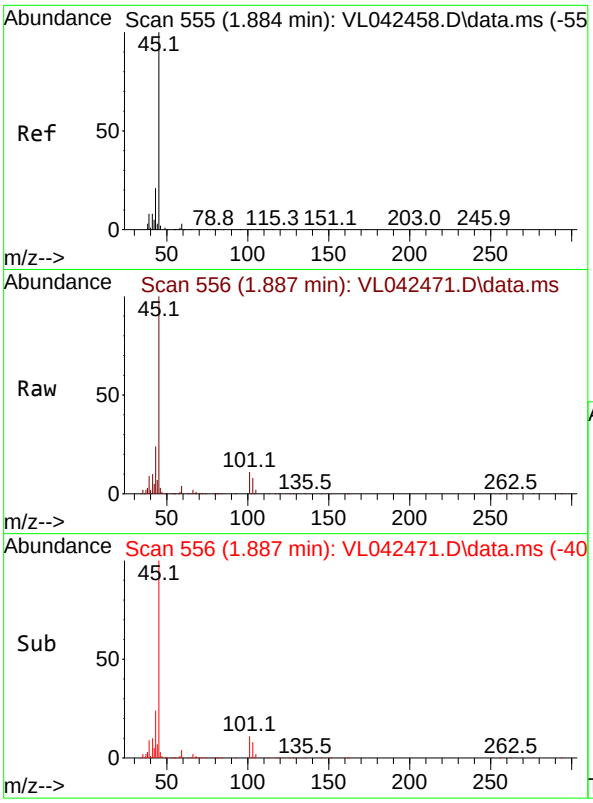


#18
1,1-Dichloroethene
Concen: 9.907 ppbv
RT: 2.033 min Scan# 601
Delta R.T. 0.000 min
Lab File: VL042471.D
Acq: 05 May 2025 10:07

Tgt Ion: 96 Resp: 41229

Ion	Ratio	Lower	Upper
96	100		
61	209.2	164.9	247.3
98	60.3	48.2	72.2



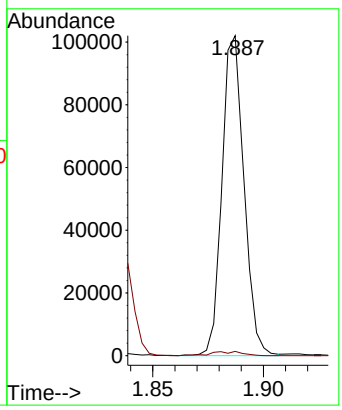


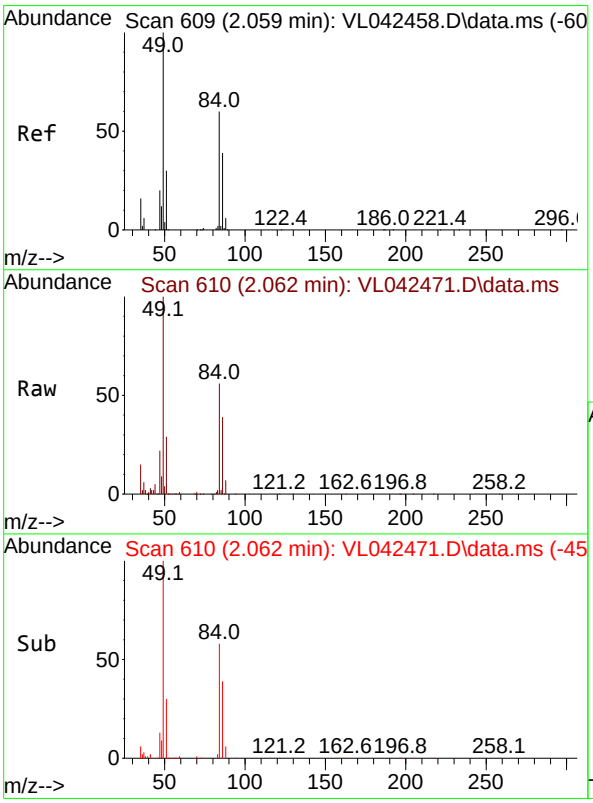
#19
Isopropyl Alcohol
Concen: 9.550 ppbv
RT: 1.887 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042471.D
Acq: 05 May 2025 10:07

Instrument :
MSVOA_L
ClientSampleId :
VL0505ABS01

Tgt Ion: 45 Resp: 70522

Ion	Ratio	Lower	Upper
45	100		
58	1.8	1.6	2.4

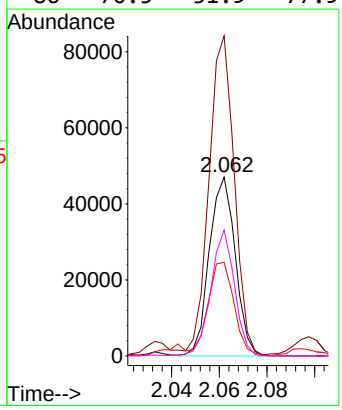


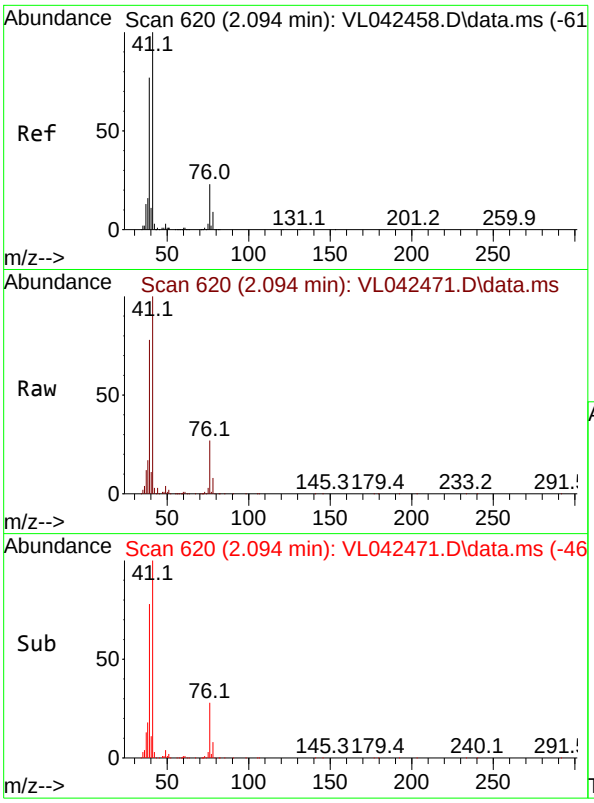


#20
Methylene Chloride
Concen: 8.901 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.003 min
Lab File: VL042471.D
Acq: 05 May 2025 10:07

Tgt Ion: 84 Resp: 35706

Ion	Ratio	Lower	Upper
84	100		
49	177.8	133.9	200.9
51	51.4	41.0	61.6
86	70.5	51.9	77.9



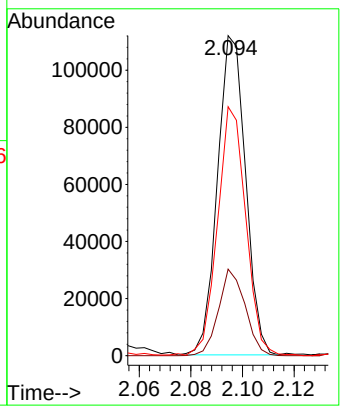


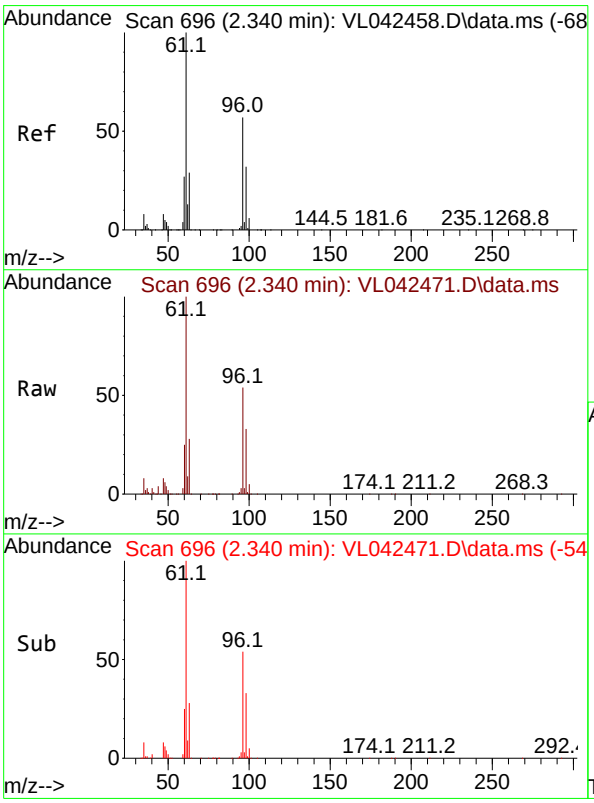
#21
Allyl Chloride
Concen: 9.873 ppbv
RT: 2.094 min Scan# 6
Delta R.T. 0.000 min
Lab File: VL042471.D
Acq: 05 May 2025 10:07

Instrument :
MSVOA_L
ClientSampleId :
VL0505ABS01

Tgt Ion: 41 Resp: 84722

Ion	Ratio	Lower	Upper
41	100		
76	25.6	19.6	29.4
39	77.7	61.0	91.4

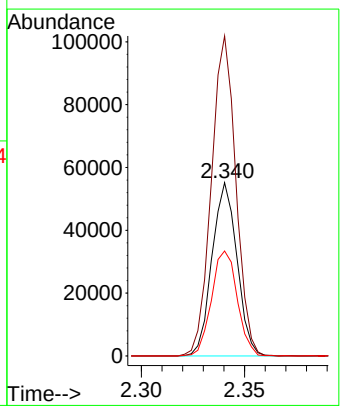


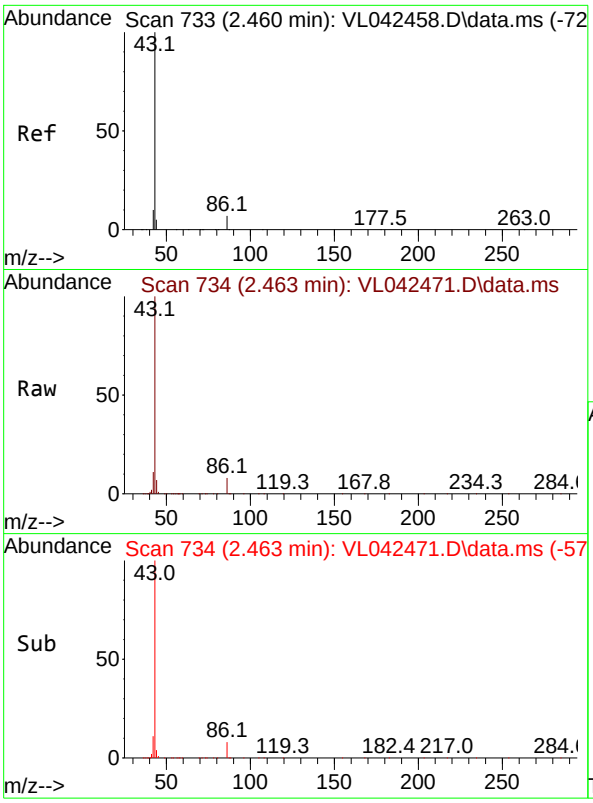


#22
trans-1,2-Dichloroethene
Concen: 9.528 ppbv
RT: 2.340 min Scan# 696
Delta R.T. 0.000 min
Lab File: VL042471.D
Acq: 05 May 2025 10:07

Tgt Ion: 96 Resp: 46305

Ion	Ratio	Lower	Upper
96	100		
61	184.7	141.8	212.6
98	60.6	45.0	67.6



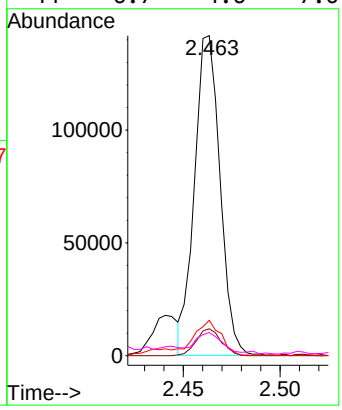


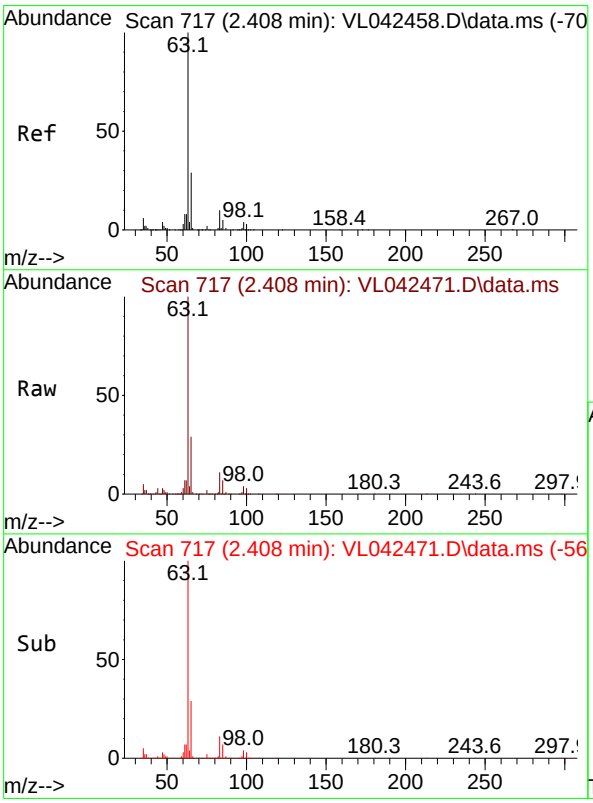
#23
Vinyl Acetate
Concen: 10.210 ppbv
RT: 2.463 min Scan# 7
Delta R.T. 0.003 min
Lab File: VL042471.D
Acq: 05 May 2025 10:07

Instrument :
MSVOA_L
ClientSampleId :
VL0505ABS01

Tgt Ion: 43 Resp: 130023

Ion	Ratio	Lower	Upper
43	100		
86	8.4	5.5	8.3#
42	11.0	8.3	12.5
44	6.7	4.6	7.0

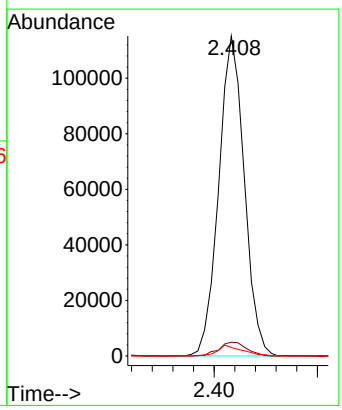


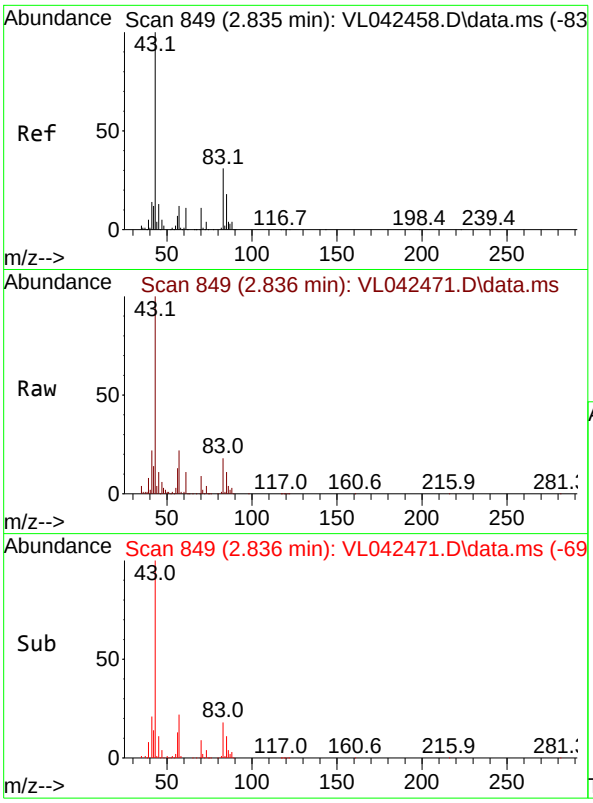


#24
1,1-Dichloroethane
Concen: 9.984 ppbv
RT: 2.408 min Scan# 717
Delta R.T. 0.000 min
Lab File: VL042471.D
Acq: 05 May 2025 10:07

Tgt Ion: 63 Resp: 98989

Ion	Ratio	Lower	Upper
63	100		
98	4.3	1.8	5.5
100	2.7	1.4	4.2



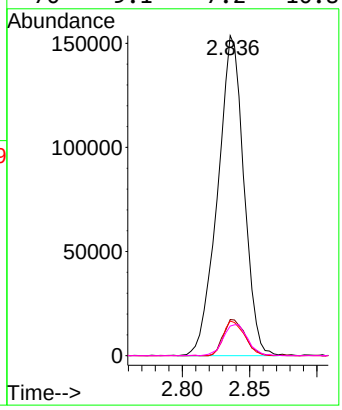


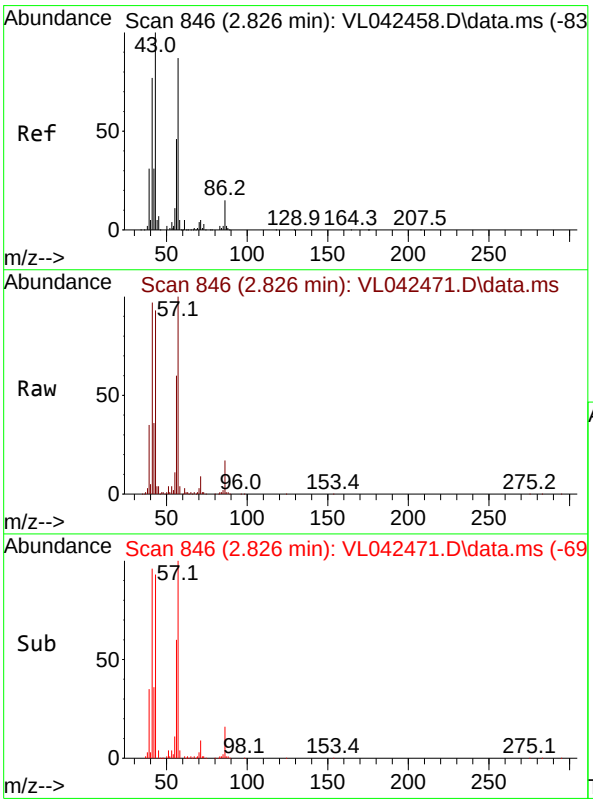
#25
Ethyl Acetate
Concen: 9.728 ppbv
RT: 2.836 min Scan# 84
Delta R.T. 0.000 min
Lab File: VL042471.D
Acq: 05 May 2025 10:07

Instrument :
MSVOA_L
ClientSampleId :
VL0505ABS01

Tgt Ion: 43 Resp: 207844

Ion	Ratio	Lower	Upper
43	100		
45	9.4	7.8	11.6
61	8.9	7.2	10.8
70	9.1	7.2	10.8

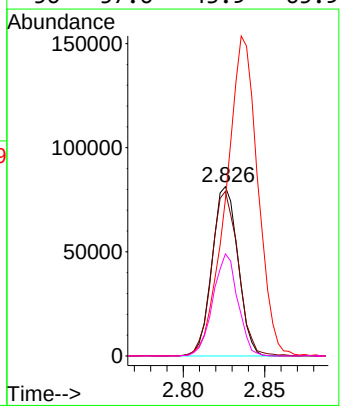


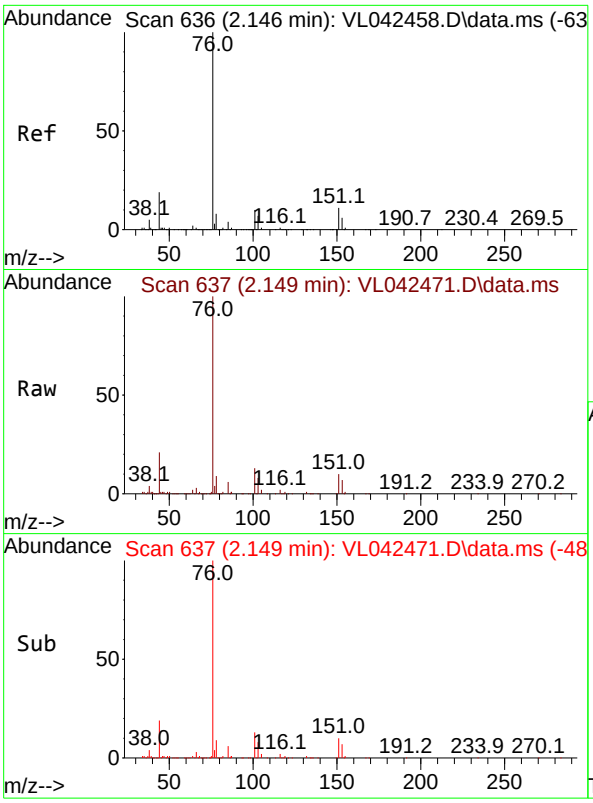


#26
Hexane
Concen: 9.673 ppbv
RT: 2.826 min Scan# 846
Delta R.T. 0.000 min
Lab File: VL042471.D
Acq: 05 May 2025 10:07

Tgt Ion: 57 Resp: 90030

Ion	Ratio	Lower	Upper
57	100		
41	99.4	77.8	116.8
43	232.3	187.0	280.6
56	57.6	43.9	65.9



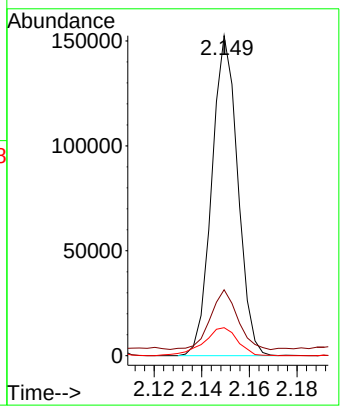


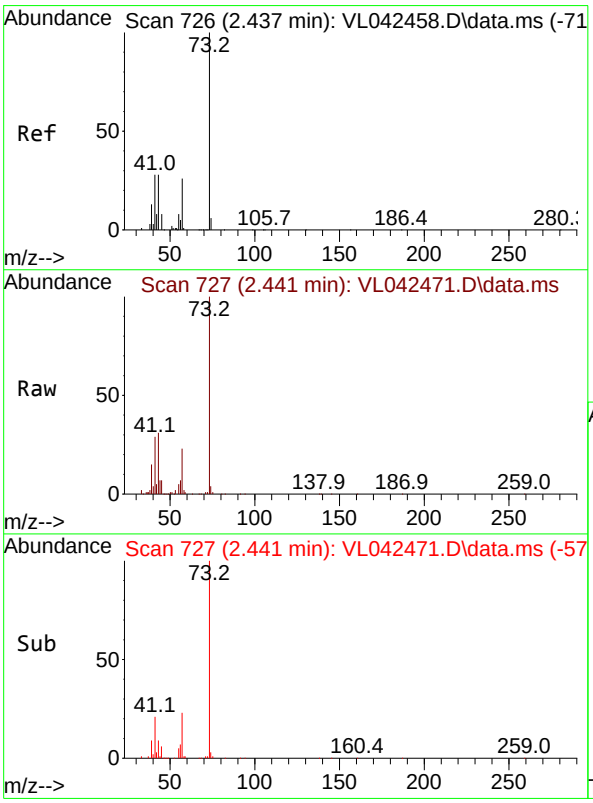
#27
Carbon Disulfide
Concen: 10.614 ppbv
RT: 2.149 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL042471.D
Acq: 05 May 2025 10:07

Instrument :
MSVOA_L
ClientSampleId :
VL0505ABS01

Tgt Ion: 76 Resp: 115286

Ion	Ratio	Lower	Upper
76	100		
44	22.5	21.0	31.6
78	11.4	8.6	13.0

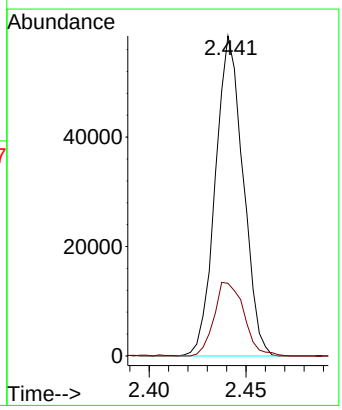


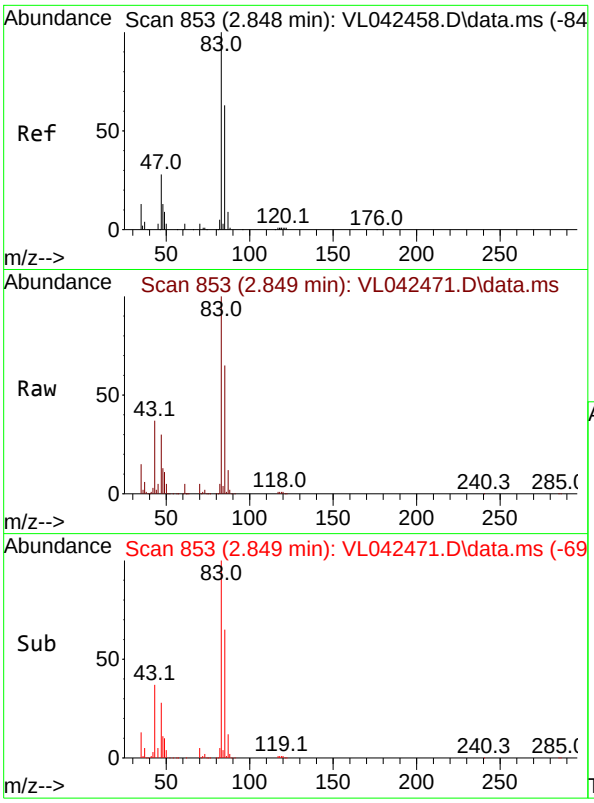


#28
Methyl tert-Butyl Ether
Concen: 10.429 ppbv
RT: 2.441 min Scan# 727
Delta R.T. 0.003 min
Lab File: VL042471.D
Acq: 05 May 2025 10:07

Tgt Ion: 73 Resp: 58319

Ion	Ratio	Lower	Upper
73	100		
57	25.1	19.9	29.9



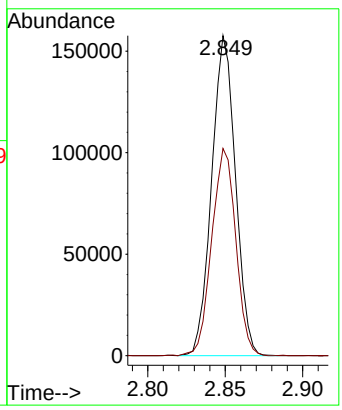


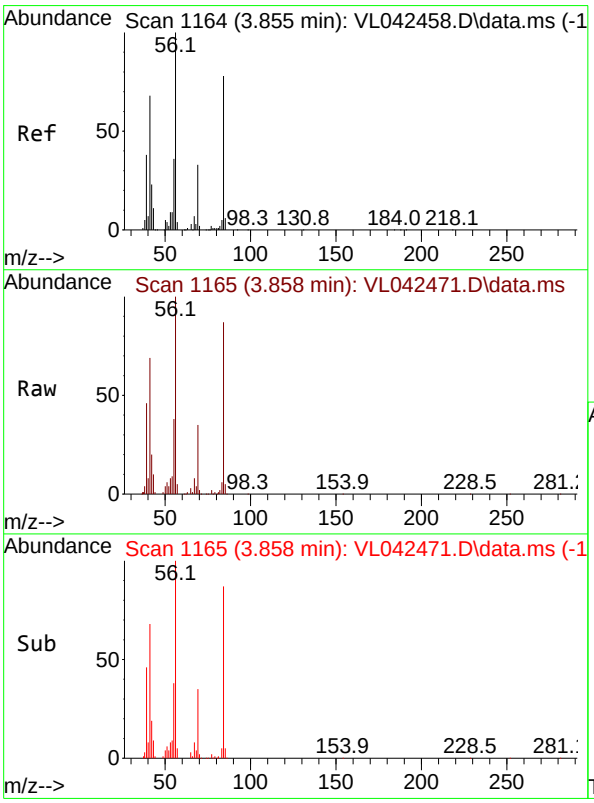
#29
Chloroform
Concen: 9.660 ppbv
RT: 2.849 min Scan# 8
Delta R.T. 0.000 min
Lab File: VL042471.D
Acq: 05 May 2025 10:07

Instrument :
MSVOA_L
ClientSampleId :
VL0505ABS01

Tgt Ion: 83 Resp: 168484

Ion	Ratio	Lower	Upper
83	100		
85	64.8	50.4	75.6

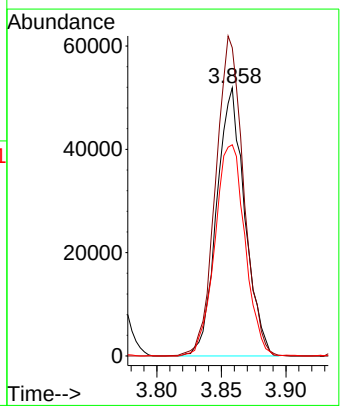


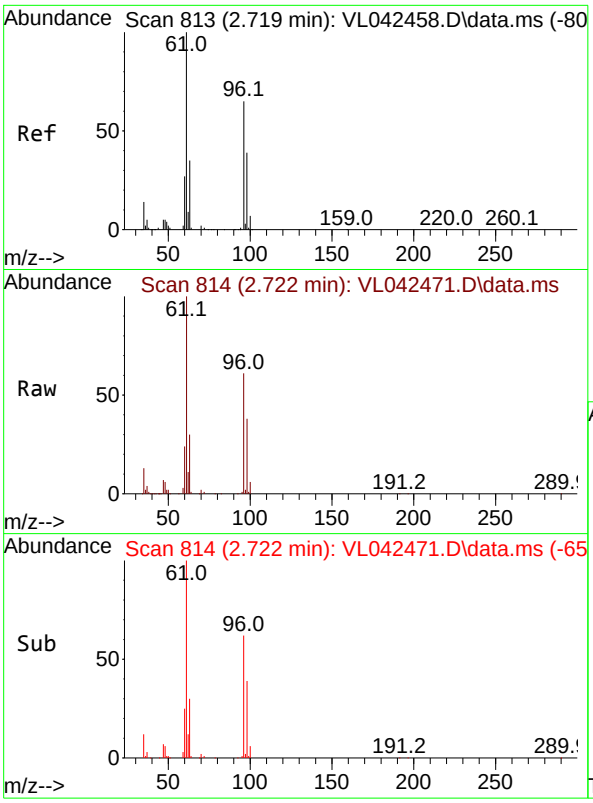


#30
Cyclohexane
Concen: 10.078 ppbv
RT: 3.858 min Scan# 1165
Delta R.T. 0.003 min
Lab File: VL042471.D
Acq: 05 May 2025 10:07

Tgt Ion: 84 Resp: 78428

Ion	Ratio	Lower	Upper
84	100		
56	118.7	98.1	147.1
41	84.7	65.8	98.8



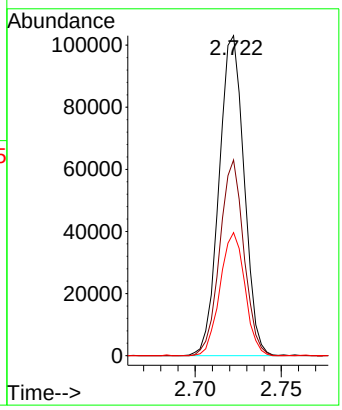


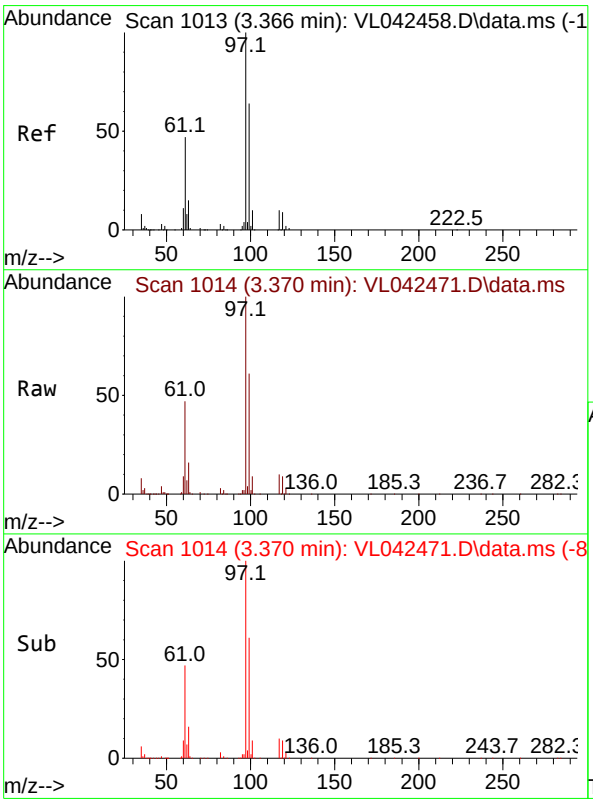
#31
cis-1,2-Dichloroethene
Concen: 9.595 ppbv
RT: 2.722 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042471.D
Acq: 05 May 2025 10:07

Instrument :
MSVOA_L
ClientSampleId :
VL0505ABS01

Tgt Ion: 61 Resp: 104191

Ion	Ratio	Lower	Upper
61	100		
96	61.2	52.0	78.0
98	38.4	31.0	46.6

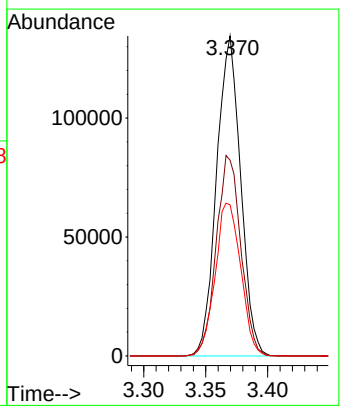


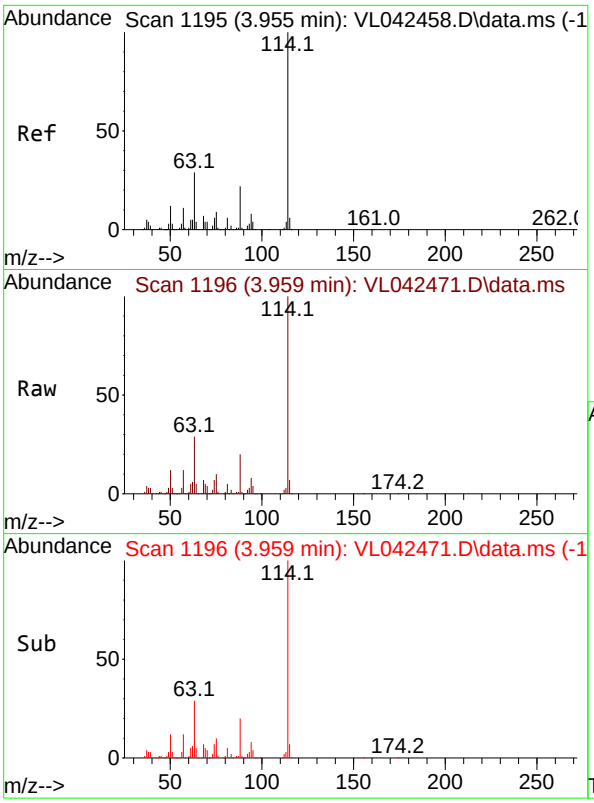


#32
1,1,1-Trichloroethane
Concen: 9.632 ppbv
RT: 3.370 min Scan# 1014
Delta R.T. 0.003 min
Lab File: VL042471.D
Acq: 05 May 2025 10:07

Tgt Ion: 97 Resp: 182273

Ion	Ratio	Lower	Upper
97	100		
99	63.9	50.7	76.1
61	50.8	40.9	61.3



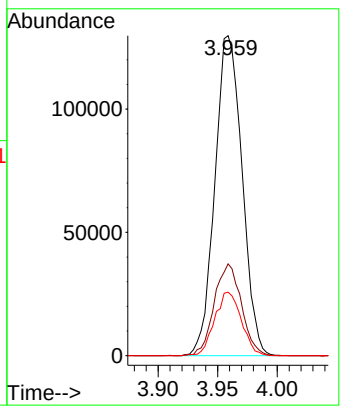


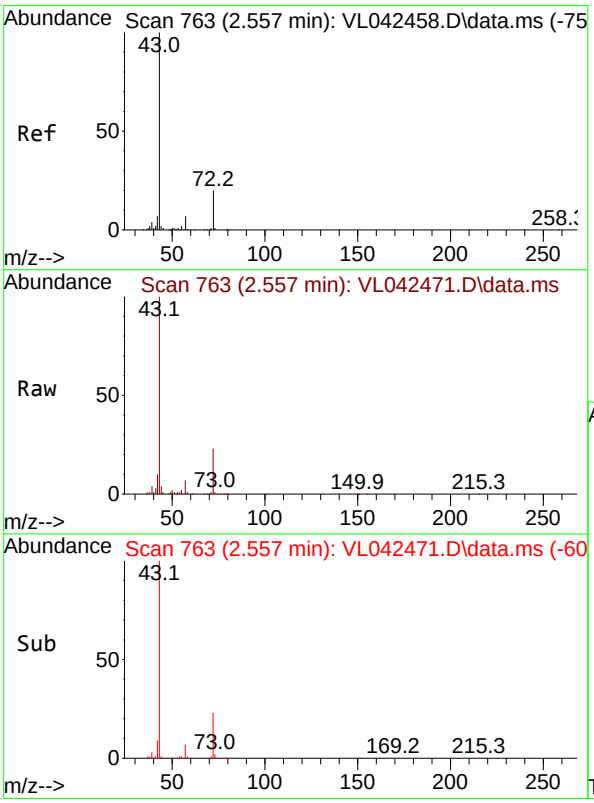
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.959 min Scan# 1
Delta R.T. 0.003 min
Lab File: VL042471.D
Acq: 05 May 2025 10:07

Instrument :
MSVOA_L
ClientSampleId :
VL0505ABS01

Tgt Ion:114 Resp: 206118

Ion	Ratio	Lower	Upper
114	100		
63	28.7	23.1	34.7
88	19.5	16.1	24.1

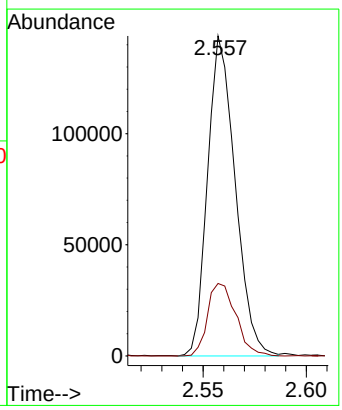


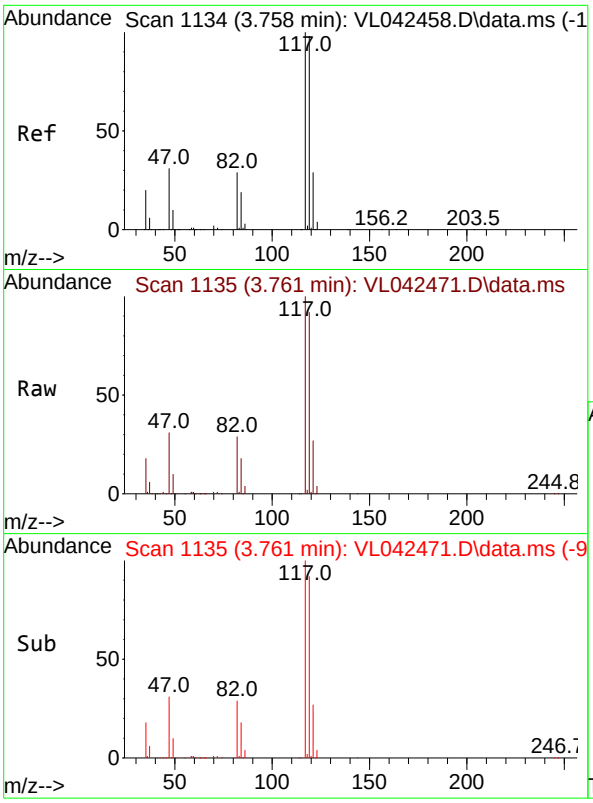


#34
2-Butanone
Concen: 8.961 ppbv
RT: 2.557 min Scan# 763
Delta R.T. 0.000 min
Lab File: VL042471.D
Acq: 05 May 2025 10:07

Tgt Ion: 43 Resp: 133597

Ion	Ratio	Lower	Upper
43	100		
72	23.3	16.7	25.1



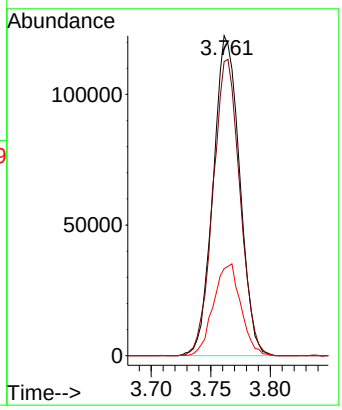


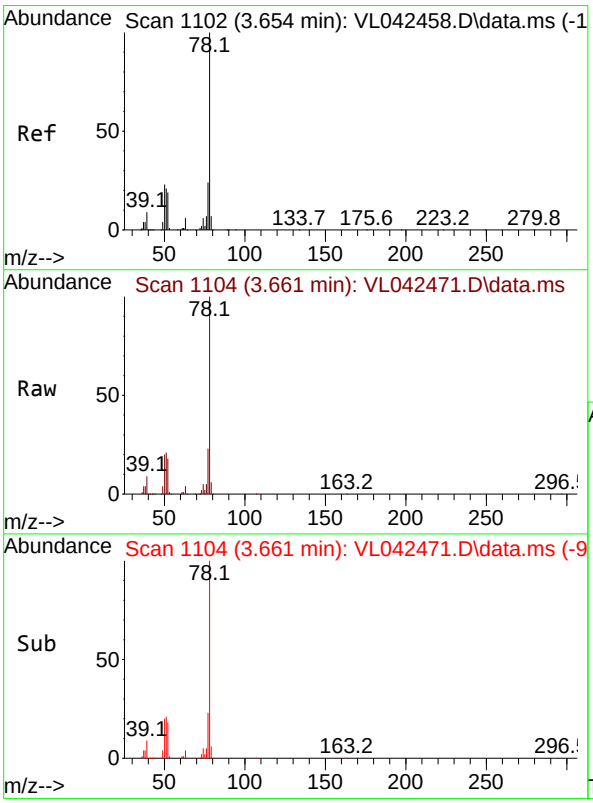
#35
Carbon Tetrachloride
Concen: 10.090 ppbv
RT: 3.761 min Scan# 11
Delta R.T. 0.003 min
Lab File: VL042471.D
Acq: 05 May 2025 10:07

Instrument :
MSVOA_L
ClientSampleId :
VL0505ABS01

Tgt Ion:117 Resp: 188916

Ion	Ratio	Lower	Upper
117	100		
119	91.9	78.1	117.1
121	27.2	23.0	34.6

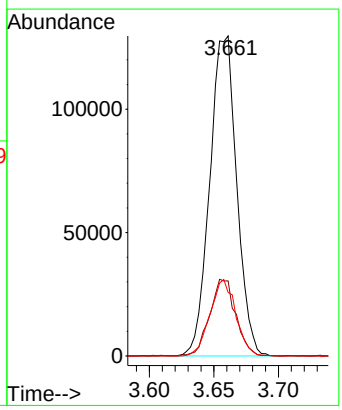


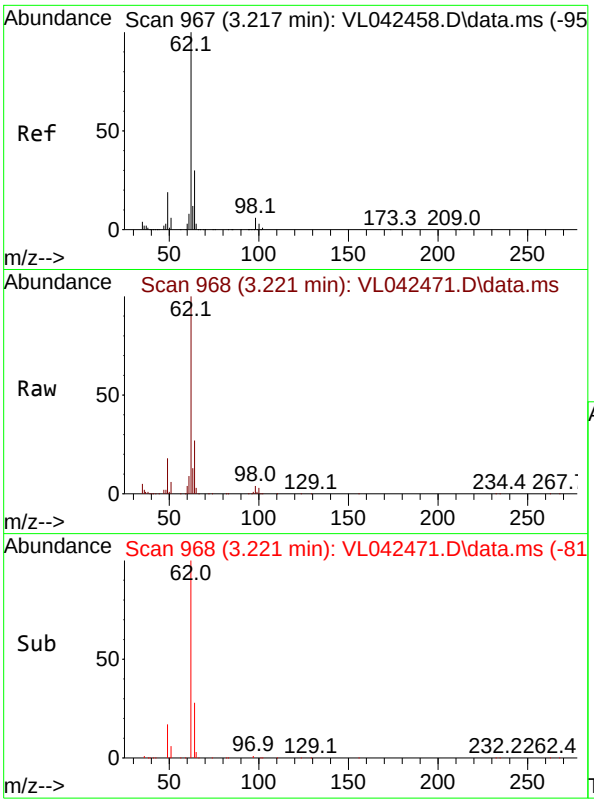


#36
Benzene
Concen: 9.682 ppbv
RT: 3.661 min Scan# 1104
Delta R.T. 0.007 min
Lab File: VL042471.D
Acq: 05 May 2025 10:07

Tgt Ion: 78 Resp: 188320

Ion	Ratio	Lower	Upper
78	100		
77	23.4	18.9	28.3
50	19.8	18.4	27.6



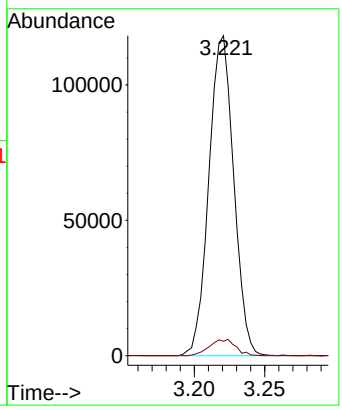


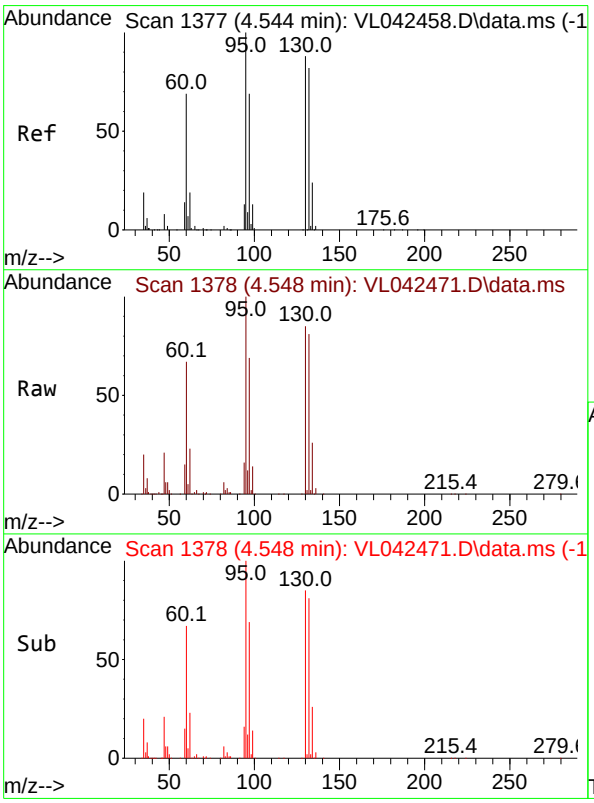
#37
1,2-Dichloroethane
Concen: 9.695 ppbv
RT: 3.221 min Scan# 9
Delta R.T. 0.003 min
Lab File: VL042471.D
Acq: 05 May 2025 10:07

Instrument :
MSVOA_L
ClientSampleId :
VL0505ABS01

Tgt Ion: 62 Resp: 145347

Ion	Ratio	Lower	Upper
62	100		
98	5.4	4.3	6.5

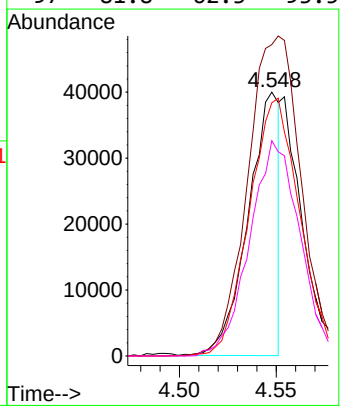


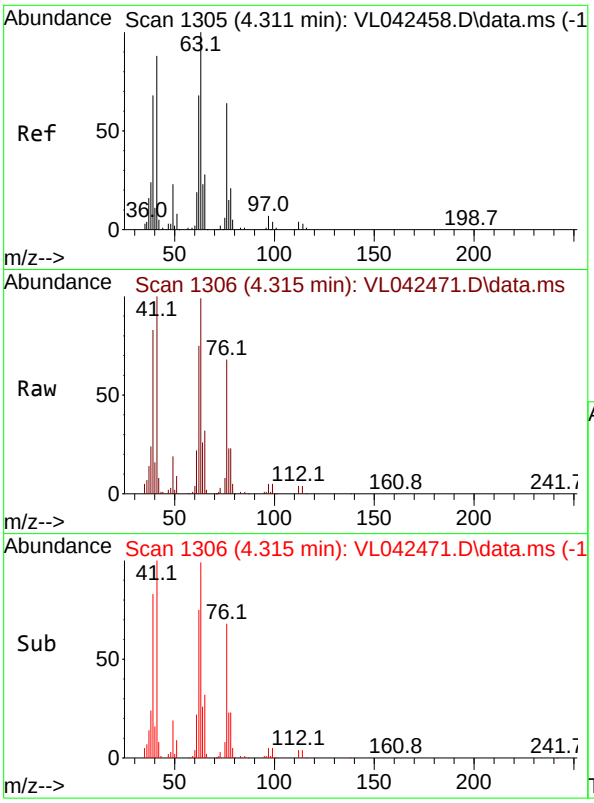


#38
Trichloroethene
Concen: 6.035 ppbv
RT: 4.548 min Scan# 1378
Delta R.T. 0.003 min
Lab File: VL042471.D
Acq: 05 May 2025 10:07

Tgt Ion:130 Resp: 44769

Ion	Ratio	Lower	Upper
130	100		
95	118.3	91.0	136.4
132	96.1	74.2	111.4
97	81.8	62.3	93.5



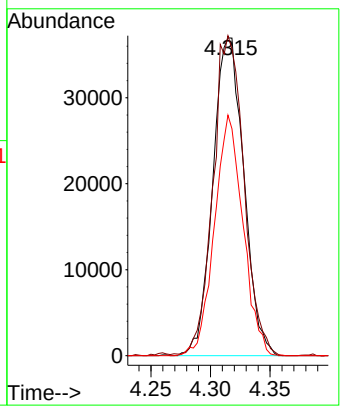


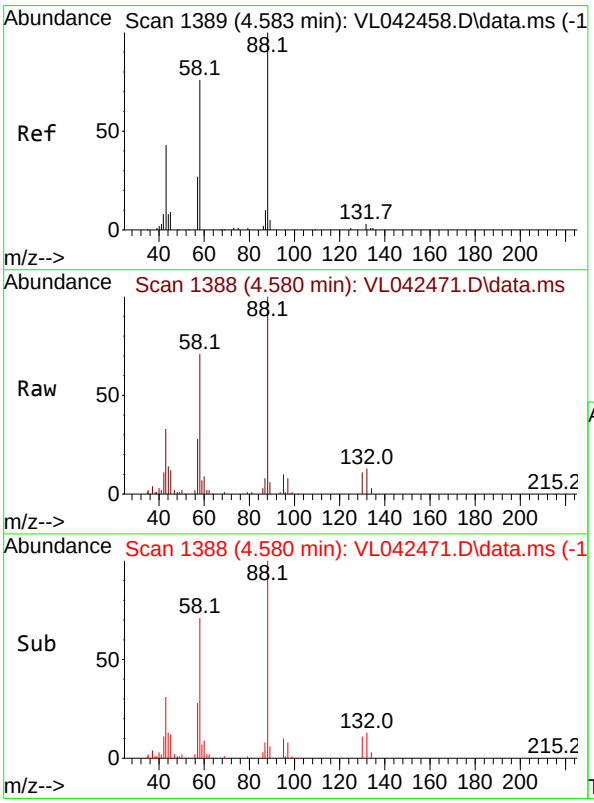
#39
1,2-Dichloropropane
Concen: 9.188 ppbv
RT: 4.315 min Scan# 1
Delta R.T. 0.003 min
Lab File: VL042471.D
Acq: 05 May 2025 10:07

Instrument :
MSVOA_L
ClientSampleId :
VL0505ABS01

Tgt Ion: 63 Resp: 66905

Ion	Ratio	Lower	Upper
63	100		
41	100.3	69.8	104.6
62	75.5	54.3	81.5

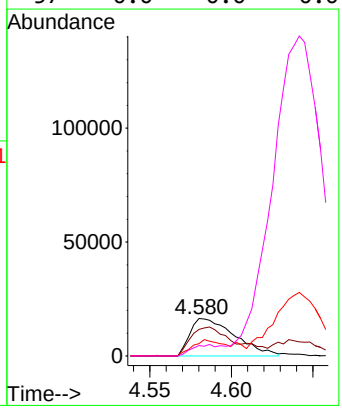


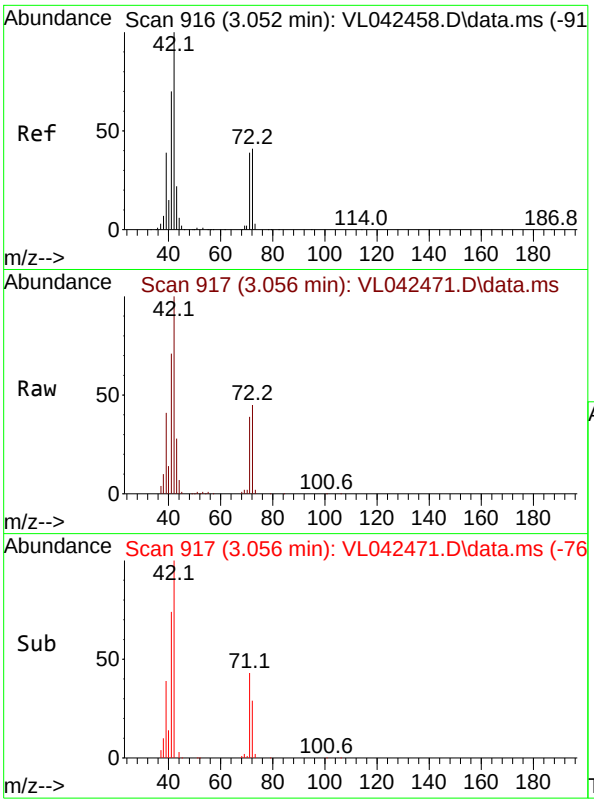


#40
1,4-Dioxane
Concen: 9.209 ppbv
RT: 4.580 min Scan# 1388
Delta R.T. -0.003 min
Lab File: VL042471.D
Acq: 05 May 2025 10:07

Tgt Ion: 88 Resp: 31401

Ion	Ratio	Lower	Upper
88	100		
58	78.2	0.0	0.0#
43	0.0	0.0	0.0
57	0.0	0.0	0.0



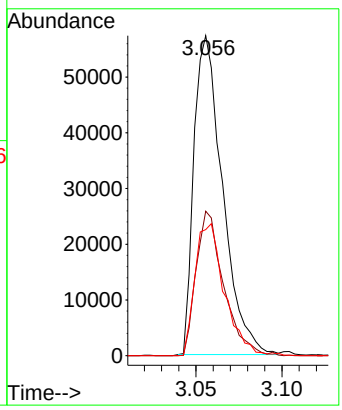


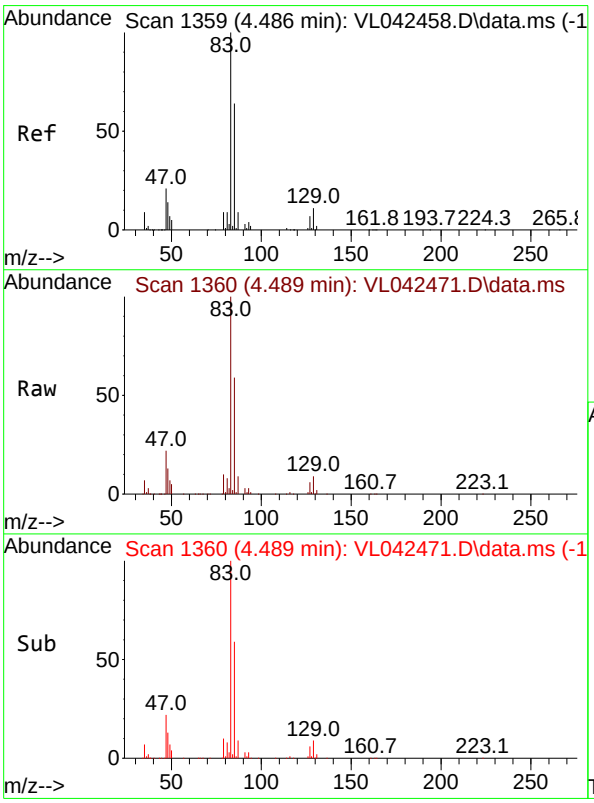
#41
Tetrahydrofuran
Concen: 9.351 ppbv
RT: 3.056 min Scan# 91
Delta R.T. 0.003 min
Lab File: VL042471.D
Acq: 05 May 2025 10:07

Instrument :
MSVOA_L
ClientSampleId :
VL0505ABS01

Tgt Ion: 42 Resp: 66257

Ion	Ratio	Lower	Upper
42	100		
72	43.7	33.5	50.3
71	42.5	32.6	49.0

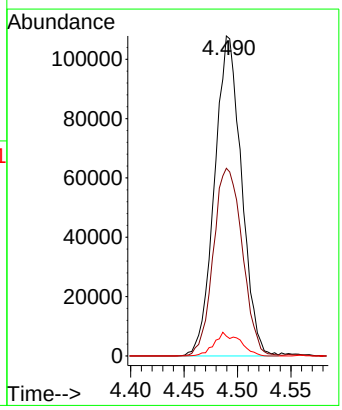


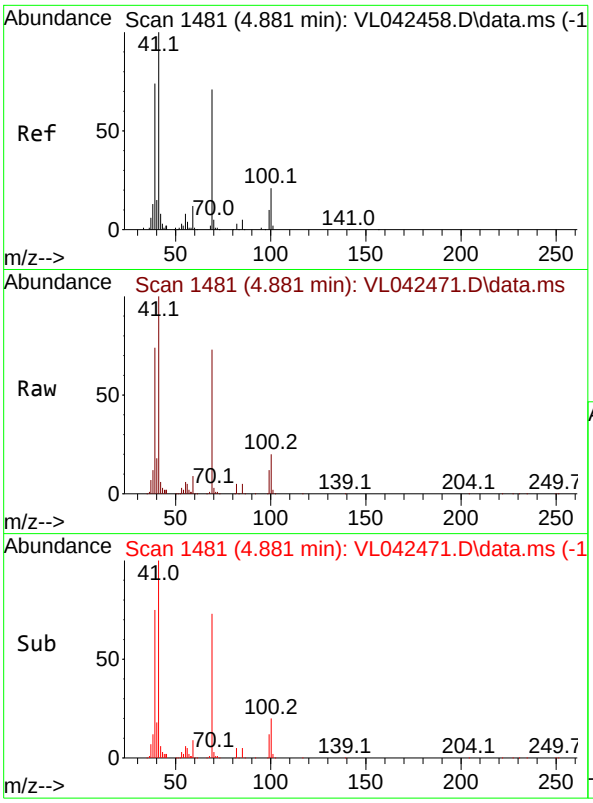


#42
Bromodichloromethane
Concen: 10.330 ppbv
RT: 4.489 min Scan# 1360
Delta R.T. 0.003 min
Lab File: VL042471.D
Acq: 05 May 2025 10:07

Tgt Ion: 83 Resp: 189214

Ion	Ratio	Lower	Upper
83	100		
85	58.6	51.5	77.3
127	6.2	5.4	8.2



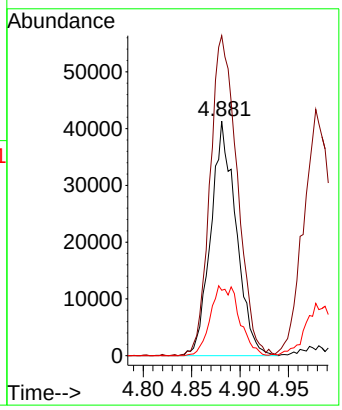


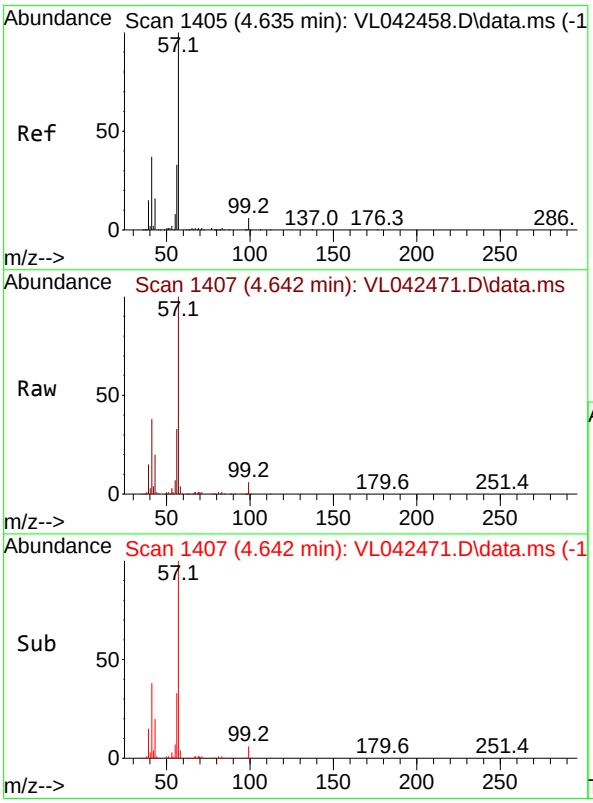
#43
Methyl Methacrylate
Concen: 10.326 ppbv
RT: 4.881 min Scan# 14
Delta R.T. 0.000 min
Lab File: VL042471.D
Acq: 05 May 2025 10:07

Instrument :
MSVOA_L
ClientSampleId :
VL0505ABS01

Tgt Ion: 69 Resp: 74953

Ion	Ratio	Lower	Upper
69	100		
41	147.3	120.8	181.2
100	34.1	26.7	40.1

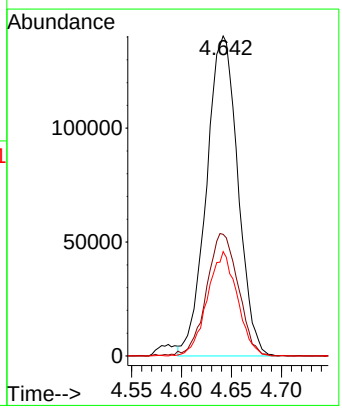


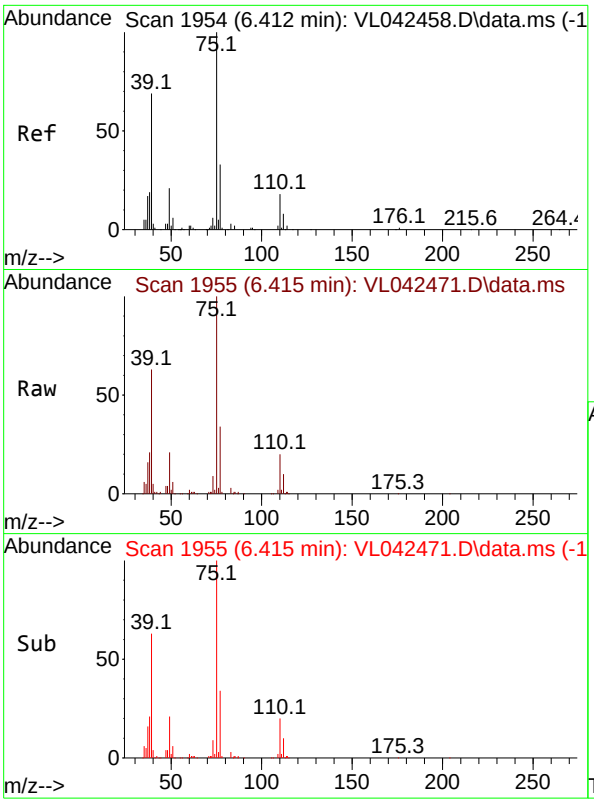


#44
2,2,4-Trimethylpentane
Concen: 9.737 ppbv
RT: 4.642 min Scan# 1407
Delta R.T. 0.007 min
Lab File: VL042471.D
Acq: 05 May 2025 10:07

Tgt Ion: 57 Resp: 307008

Ion	Ratio	Lower	Upper
57	100		
41	39.0	30.6	45.8
56	31.2	25.0	37.6



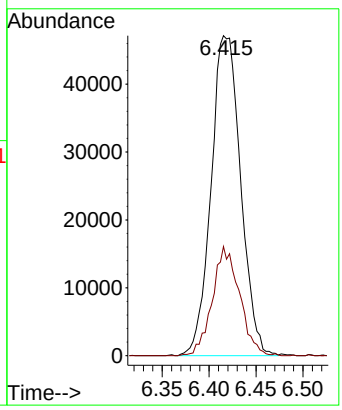


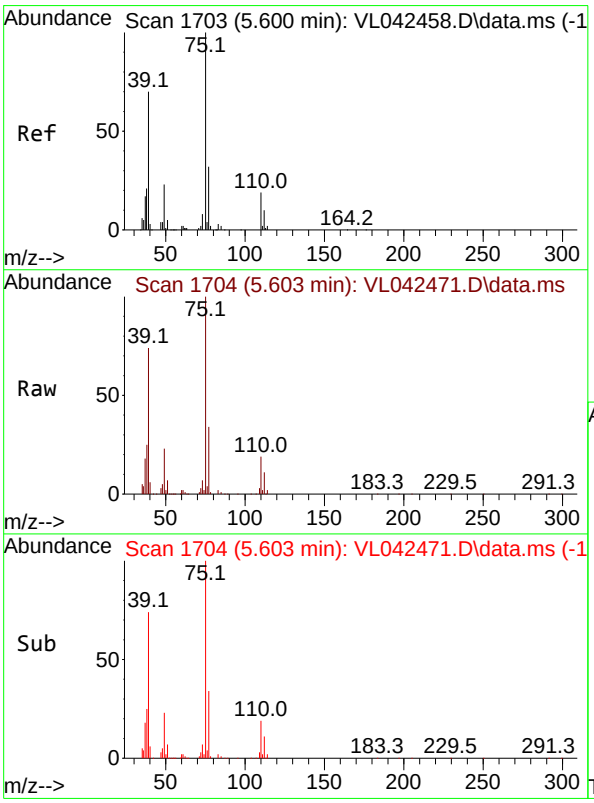
#45
t-1,3-Dichloropropene
Concen: 10.841 ppbv
RT: 6.415 min Scan# 1
Delta R.T. 0.003 min
Lab File: VL042471.D
Acq: 05 May 2025 10:07

Instrument :
MSVOA_L
ClientSampleId :
VL0505ABS01

Tgt Ion: 75 Resp: 103231

Ion	Ratio	Lower	Upper
75	100		
77	34.1	26.3	39.5

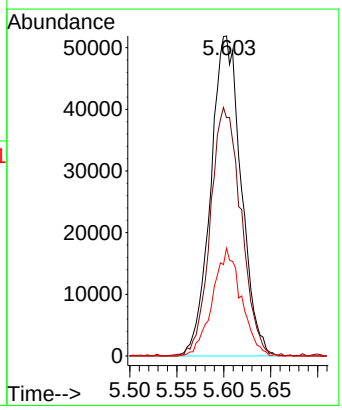


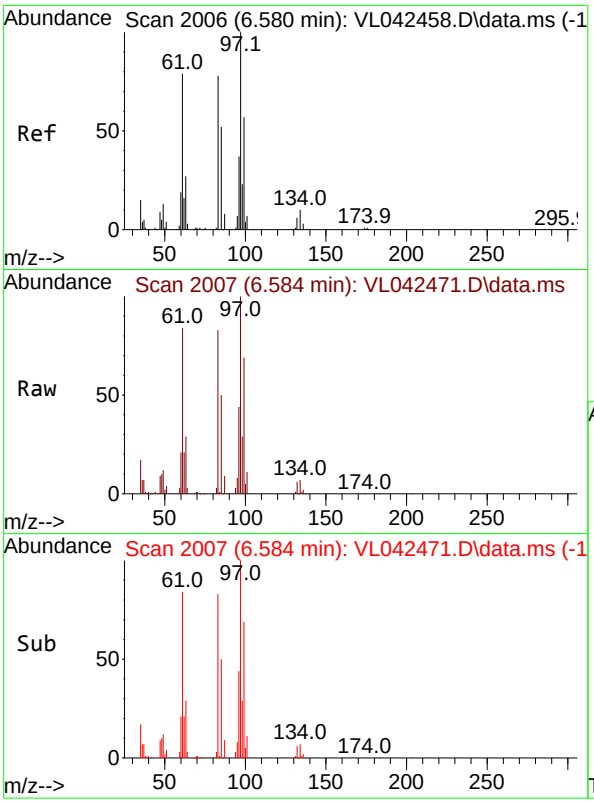


#46
cis-1,3-Dichloropropene
Concen: 10.313 ppbv
RT: 5.603 min Scan# 1704
Delta R.T. 0.003 min
Lab File: VL042471.D
Acq: 05 May 2025 10:07

Tgt Ion: 75 Resp: 116725

Ion	Ratio	Lower	Upper
75	100		
39	74.1	55.7	83.5
77	33.7	25.8	38.8



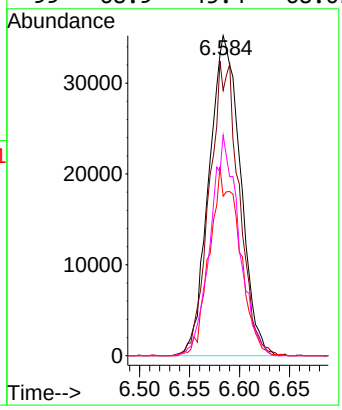


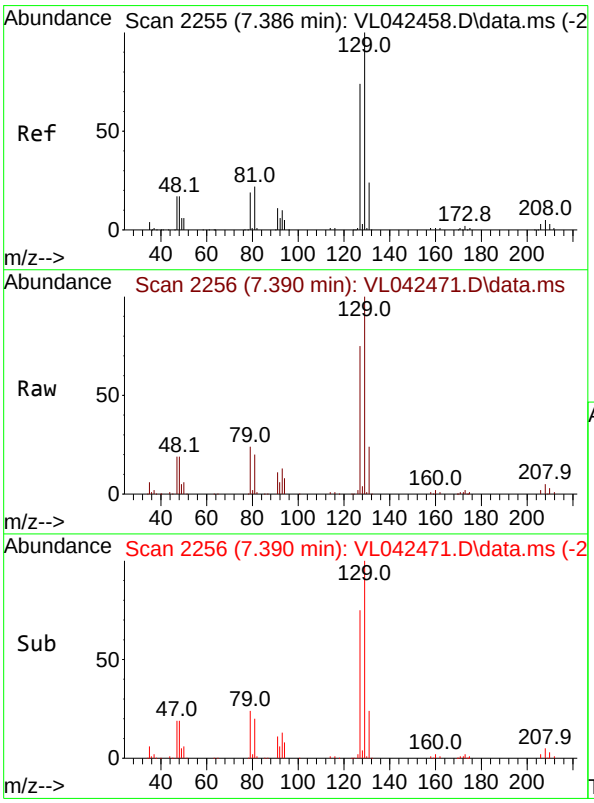
#47
1,1,2-Trichloroethane
Concen: 9.648 ppbv
RT: 6.584 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042471.D
Acq: 05 May 2025 10:07

Instrument :
MSVOA_L
ClientSampleId :
VL0505ABS01

Tgt Ion: 97 Resp: 77049

Ion	Ratio	Lower	Upper
97	100		
83	82.7	62.2	93.2
85	49.7	41.5	62.3
99	68.9	45.4	68.0#

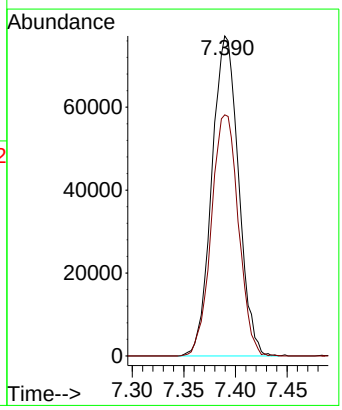


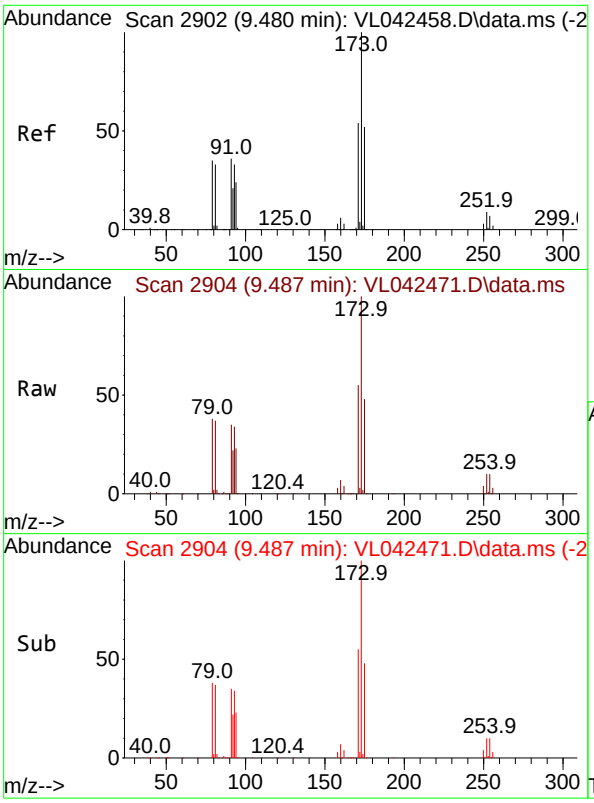


#48
Dibromochloromethane
Concen: 10.274 ppbv
RT: 7.390 min Scan# 2256
Delta R.T. 0.003 min
Lab File: VL042471.D
Acq: 05 May 2025 10:07

Tgt Ion:129 Resp: 138518

Ion	Ratio	Lower	Upper
129	100		
127	76.6	39.5	118.5



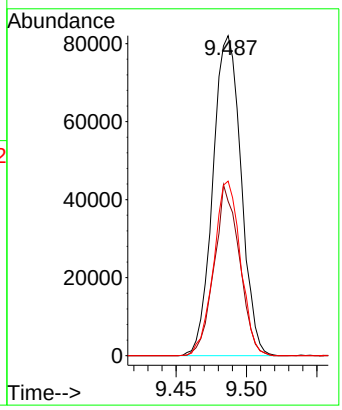


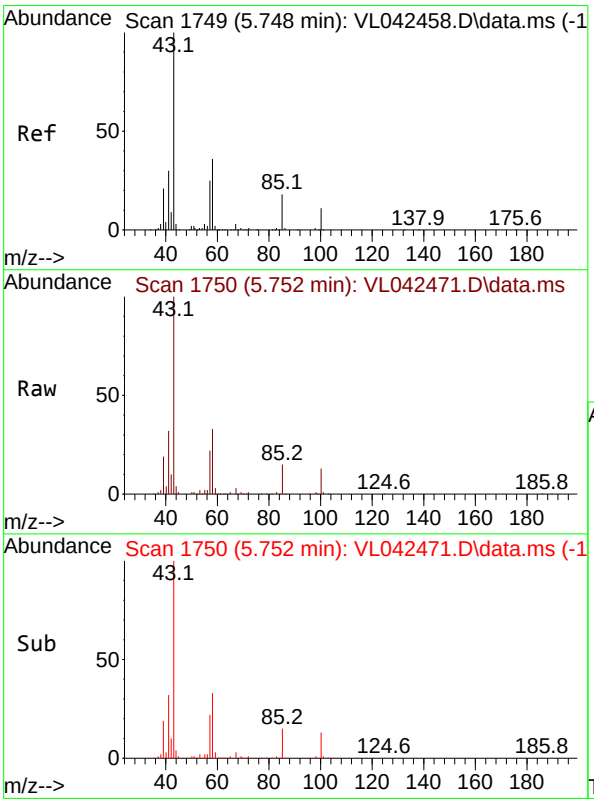
#49
Bromoform
Concen: 10.115 ppbv
RT: 9.487 min Scan# 2
Delta R.T. 0.007 min
Lab File: VL042471.D
Acq: 05 May 2025 10:07

Instrument :
MSVOA_L
ClientSampleId :
VL0505ABS01

Tgt Ion:173 Resp: 114364

Ion	Ratio	Lower	Upper
173	100		
175	48.0	38.9	58.3
171	52.0	40.6	60.8

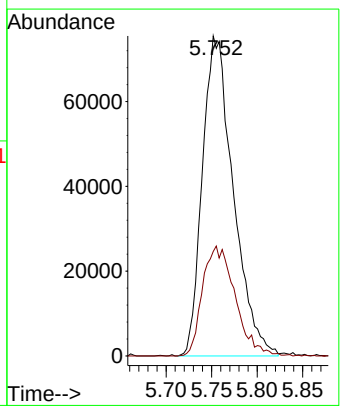


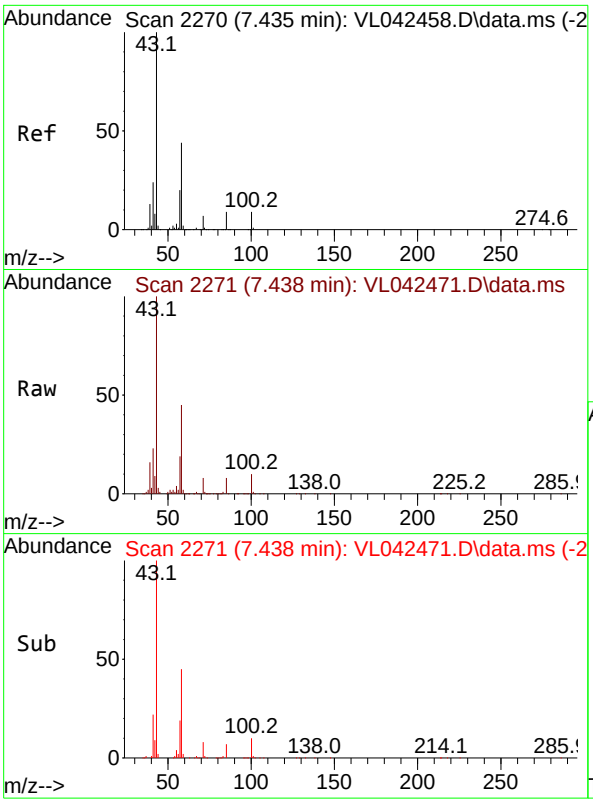


#50
4-Methyl-2-Pentanone
Concen: 9.433 ppbv
RT: 5.752 min Scan# 1750
Delta R.T. 0.003 min
Lab File: VL042471.D
Acq: 05 May 2025 10:07

Tgt Ion: 43 Resp: 177898

Ion	Ratio	Lower	Upper
43	100		
58	36.4	29.5	44.3



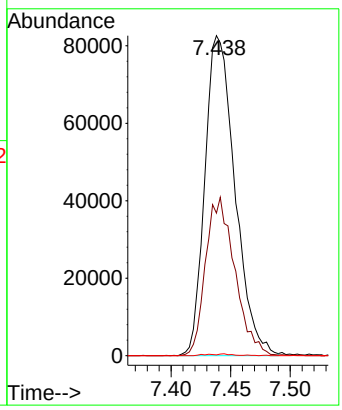


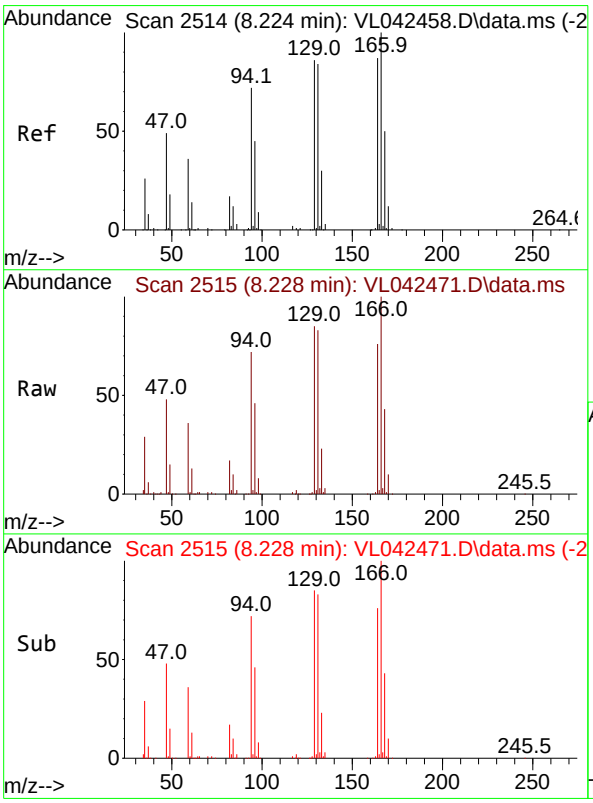
#51
2-Hexanone
Concen: 9.631 ppbv
RT: 7.438 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042471.D
Acq: 05 May 2025 10:07

Instrument :
MSVOA_L
ClientSampleId :
VL0505ABS01

Tgt Ion: 43 Resp: 145213

Ion	Ratio	Lower	Upper
43	100		
58	48.1	37.2	55.8
98	0.5	0.4	0.6

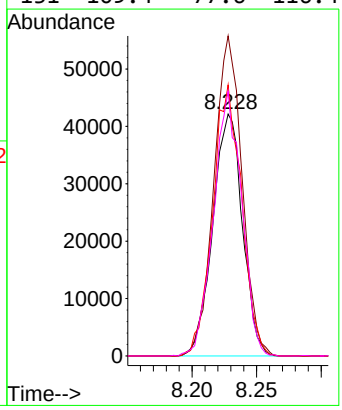


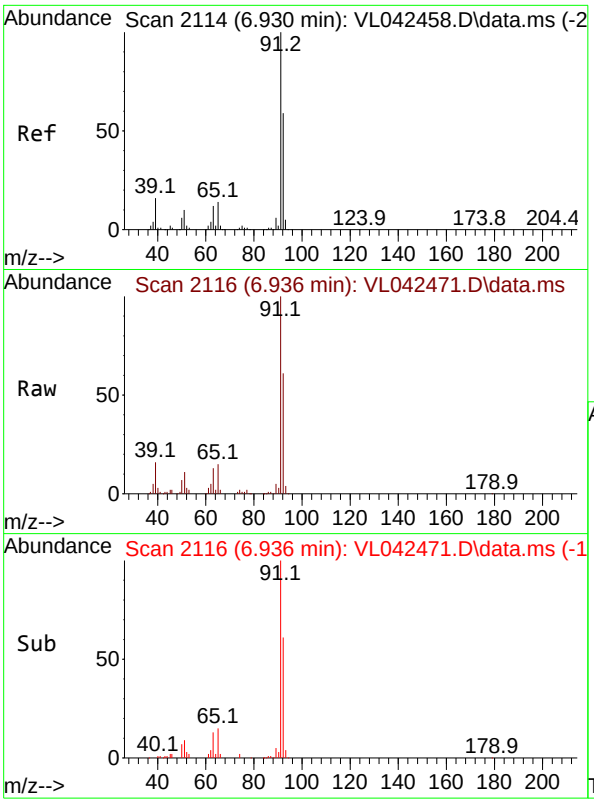


#52
Tetrachloroethene
Concen: 9.076 ppbv
RT: 8.228 min Scan# 2515
Delta R.T. 0.003 min
Lab File: VL042471.D
Acq: 05 May 2025 10:07

Tgt Ion:164 Resp: 67191

Ion	Ratio	Lower	Upper
164	100		
166	132.3	91.6	137.4
129	112.1	79.0	118.4
131	109.4	77.6	116.4



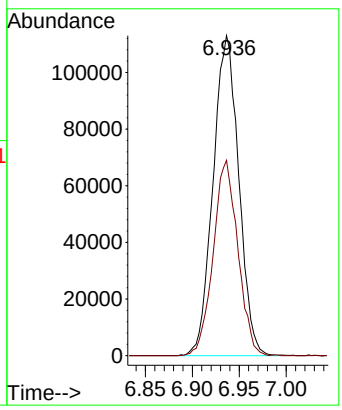


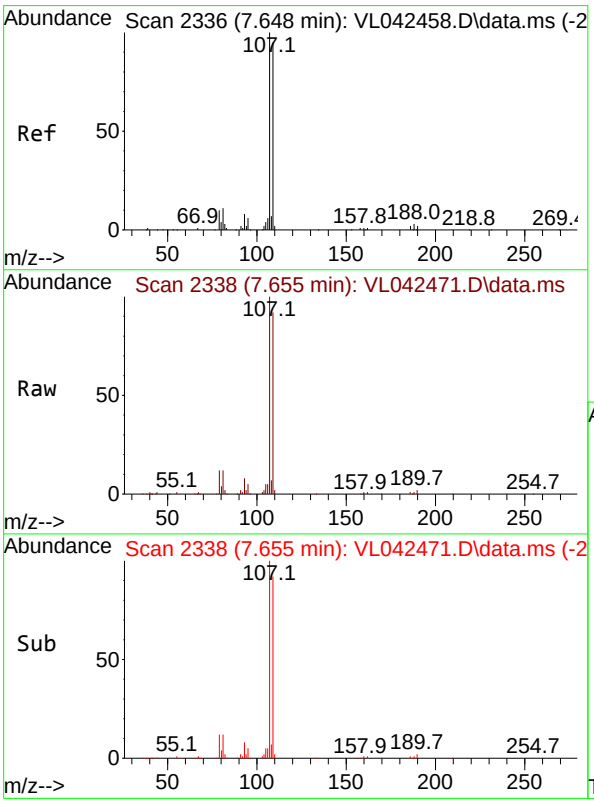
#53
Toluene
Concen: 10.434 ppbv
RT: 6.936 min Scan# 21
Delta R.T. 0.007 min
Lab File: VL042471.D
Acq: 05 May 2025 10:07

Instrument :
MSVOA_L
ClientSampleId :
VL0505ABS01

Tgt Ion: 91 Resp: 214815

Ion	Ratio	Lower	Upper
91	100		
92	58.6	47.9	71.9

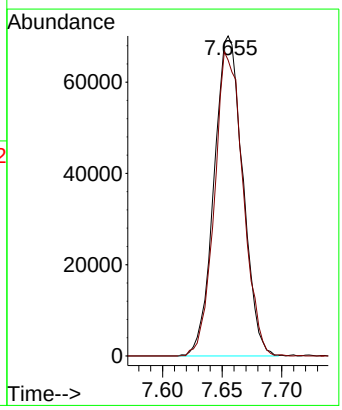


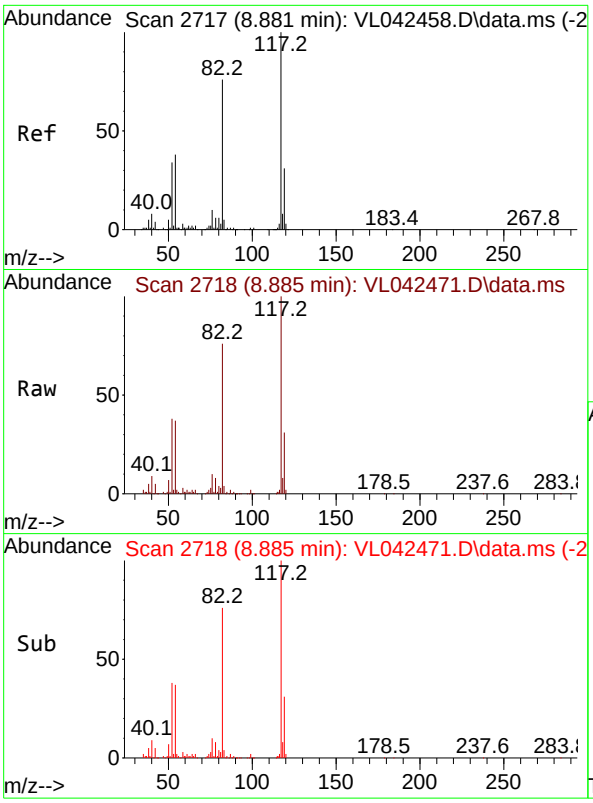


#54
1,2-Dibromoethane
Concen: 9.619 ppbv
RT: 7.655 min Scan# 2338
Delta R.T. 0.007 min
Lab File: VL042471.D
Acq: 05 May 2025 10:07

Tgt Ion:107 Resp: 117449

Ion	Ratio	Lower	Upper
107	100		
109	92.4	76.0	114.0



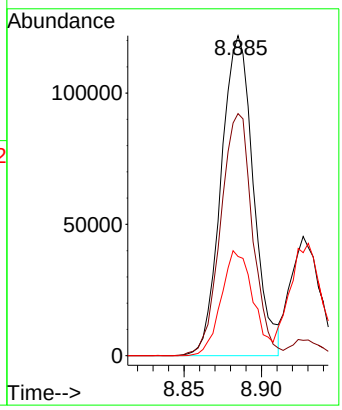


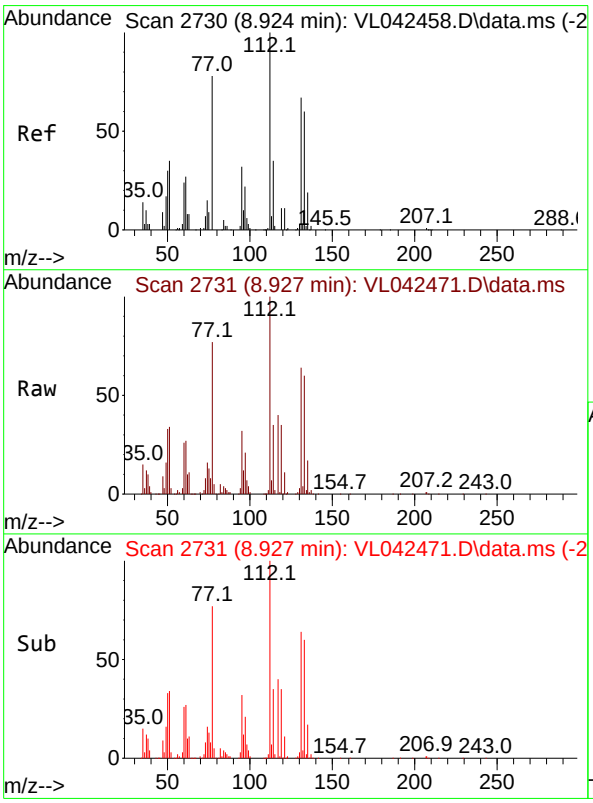
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.885 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042471.D
Acq: 05 May 2025 10:07

Instrument :
MSVOA_L
ClientSampleId :
VL0505ABS01

Tgt Ion:117 Resp: 177063

Ion	Ratio	Lower	Upper
117	100		
82	79.0	63.5	95.3
119	32.0	25.8	38.8

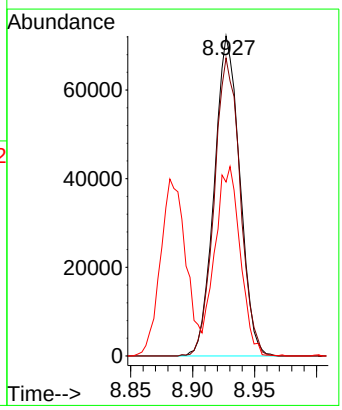


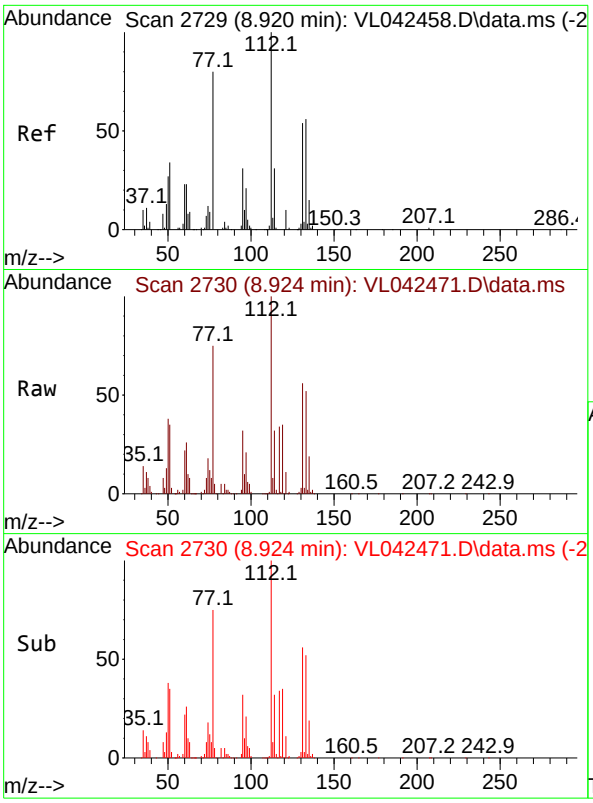


#56
1,1,1,2-Tetrachloroethane
Concen: 9.897 ppbv
RT: 8.927 min Scan# 2731
Delta R.T. 0.003 min
Lab File: VL042471.D
Acq: 05 May 2025 10:07

Tgt Ion:131 Resp: 103494

Ion	Ratio	Lower	Upper
131	100		
133	94.7	76.0	114.0
119	60.9	46.1	69.1



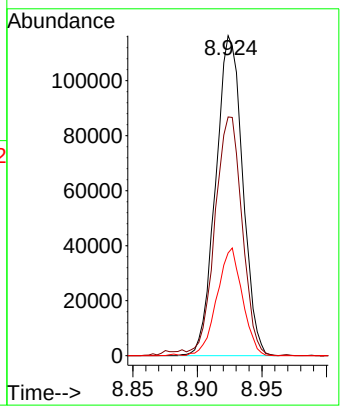


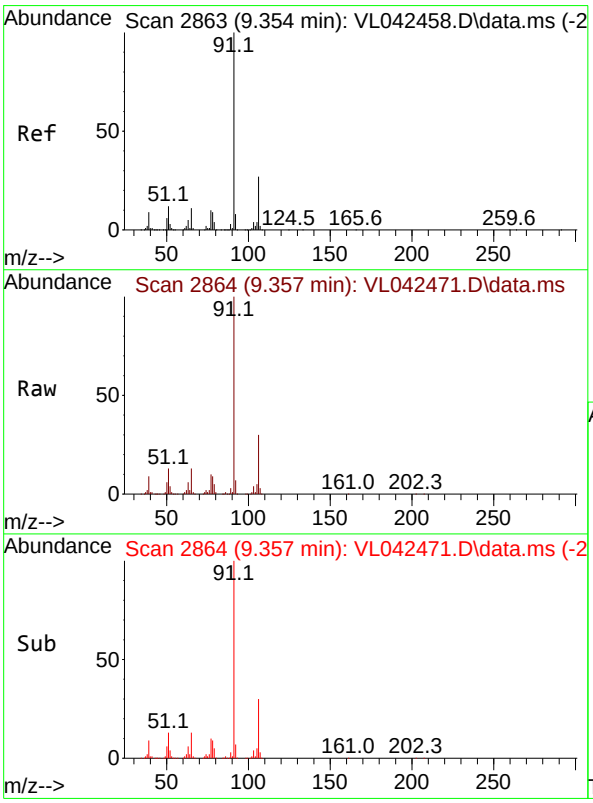
#57
Chlorobenzene
Concen: 9.495 ppbv
RT: 8.924 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042471.D
Acq: 05 May 2025 10:07

Instrument :
MSVOA_L
ClientSampleId :
VL0505ABS01

Tgt Ion:112 Resp: 168941

Ion	Ratio	Lower	Upper
112	100		
77	74.5	65.0	97.4
114	32.1	27.5	33.7

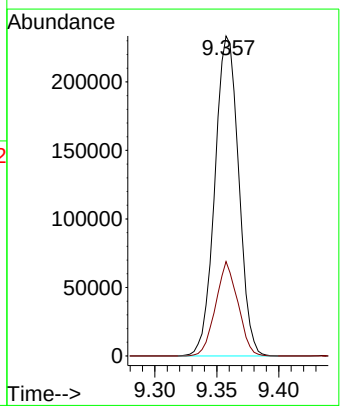


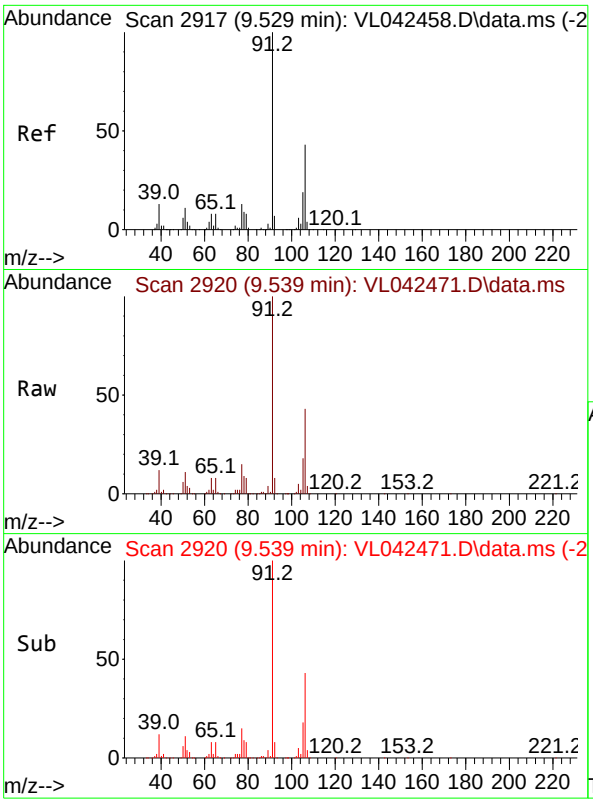


#58
Ethyl Benzene
Concen: 10.568 ppbv
RT: 9.357 min Scan# 2864
Delta R.T. 0.003 min
Lab File: VL042471.D
Acq: 05 May 2025 10:07

Tgt Ion: 91 Resp: 312698

Ion	Ratio	Lower	Upper
91	100		
106	29.5	21.9	32.9



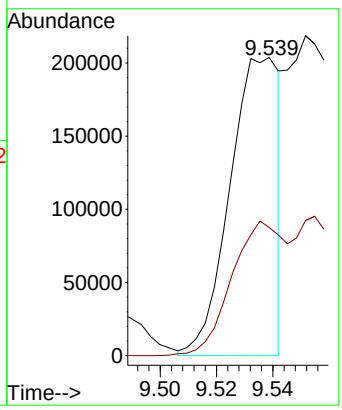


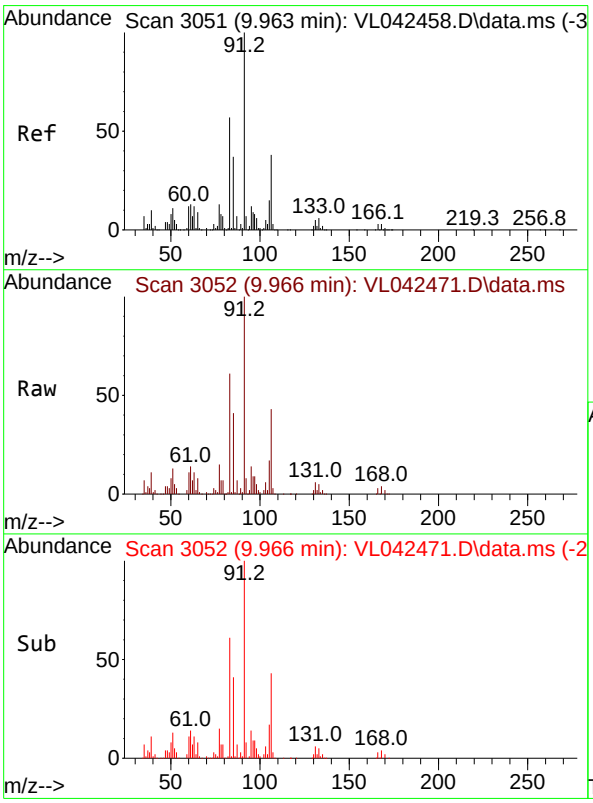
#59
m/p-Xylene
Concen: 9.958 ppbv
RT: 9.539 min Scan# 2
Delta R.T. 0.010 min
Lab File: VL042471.D
Acq: 05 May 2025 10:07

Instrument :
MSVOA_L
ClientSampleId :
VL0505ABS01

Tgt Ion: 91 Resp: 247023

Ion	Ratio	Lower	Upper
91	100		
106	0.0	34.2	51.2#

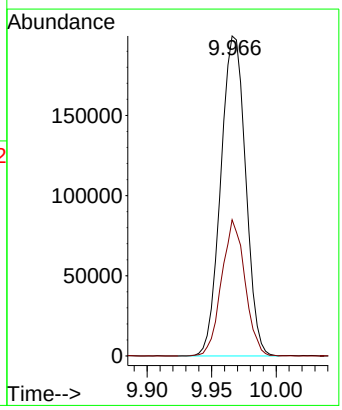


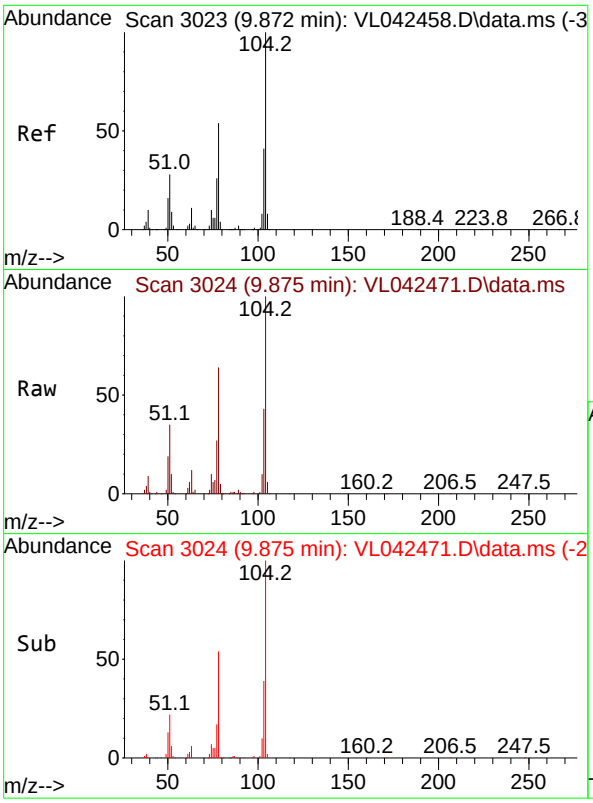


#60
o-Xylene
Concen: 10.758 ppbv
RT: 9.966 min Scan# 3052
Delta R.T. 0.003 min
Lab File: VL042471.D
Acq: 05 May 2025 10:07

Tgt Ion: 91 Resp: 267198

Ion	Ratio	Lower	Upper
91	100		
106	40.1	20.1	60.2



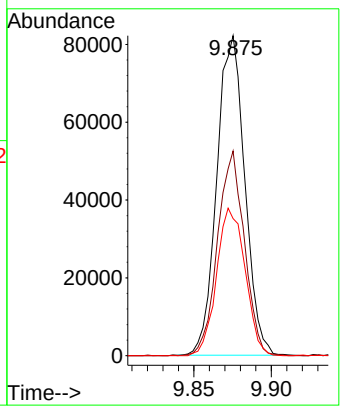


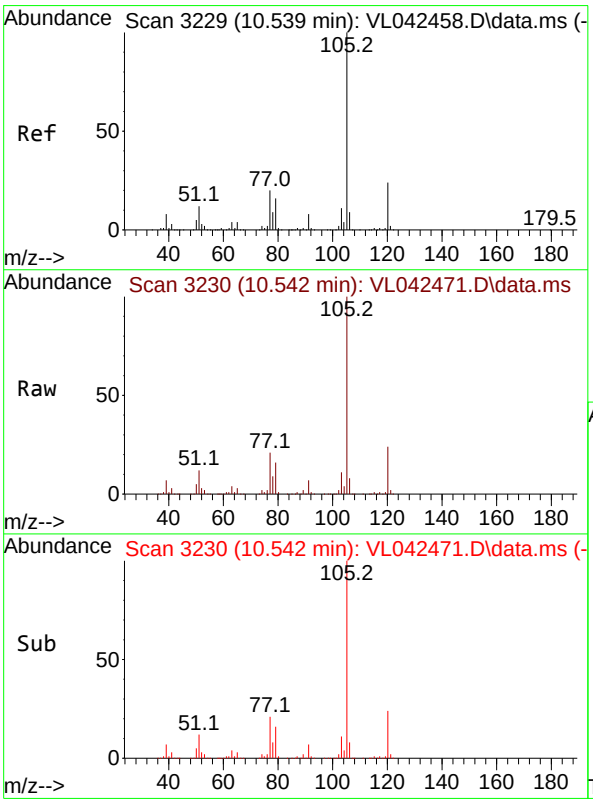
#61
Styrene
Concen: 11.138 ppbv
RT: 9.875 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042471.D
Acq: 05 May 2025 10:07

Instrument :
MSVOA_L
ClientSampleId :
VL0505ABS01

Tgt Ion:104 Resp: 103232

Ion	Ratio	Lower	Upper
104	100		
78	61.4	46.9	70.3
103	47.1	36.6	55.0

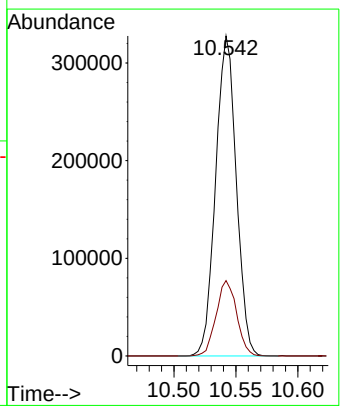


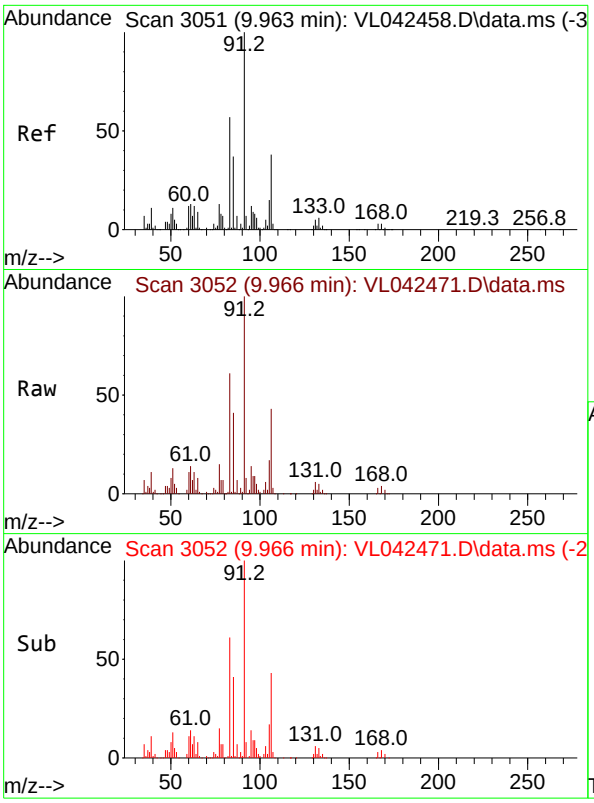


#62
Isopropylbenzene
Concen: 10.630 ppbv
RT: 10.542 min Scan# 3230
Delta R.T. 0.003 min
Lab File: VL042471.D
Acq: 05 May 2025 10:07

Tgt Ion:105 Resp: 380840

Ion	Ratio	Lower	Upper
105	100		
120	23.4	18.8	28.2



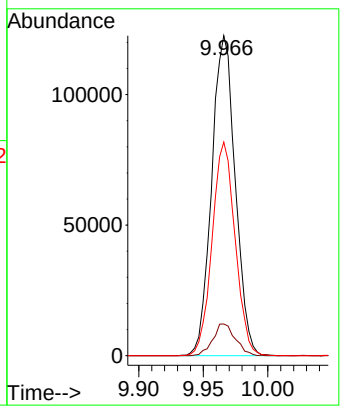


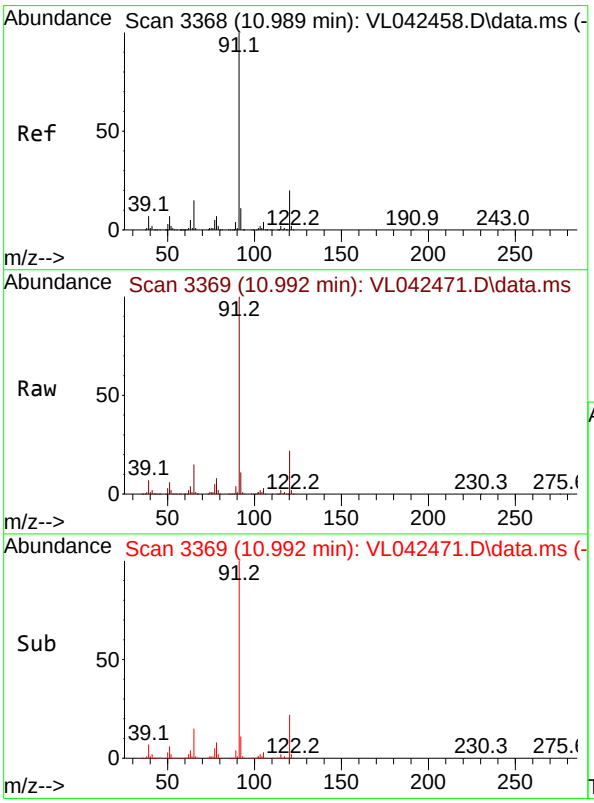
#63
1,1,2,2-Tetrachloroethane
Concen: 9.079 ppbv
RT: 9.966 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042471.D
Acq: 05 May 2025 10:07

Instrument :
MSVOA_L
ClientSampleId :
VL0505ABS01

Tgt Ion: 83 Resp: 155457

Ion	Ratio	Lower	Upper
83	100		
131	9.5	4.7	14.1
85	65.1	32.5	97.4

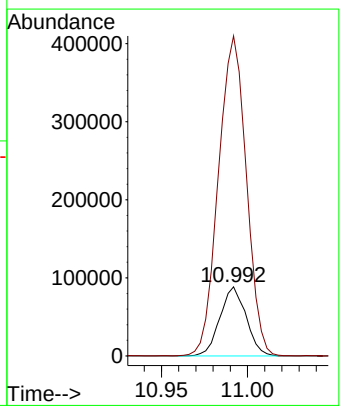


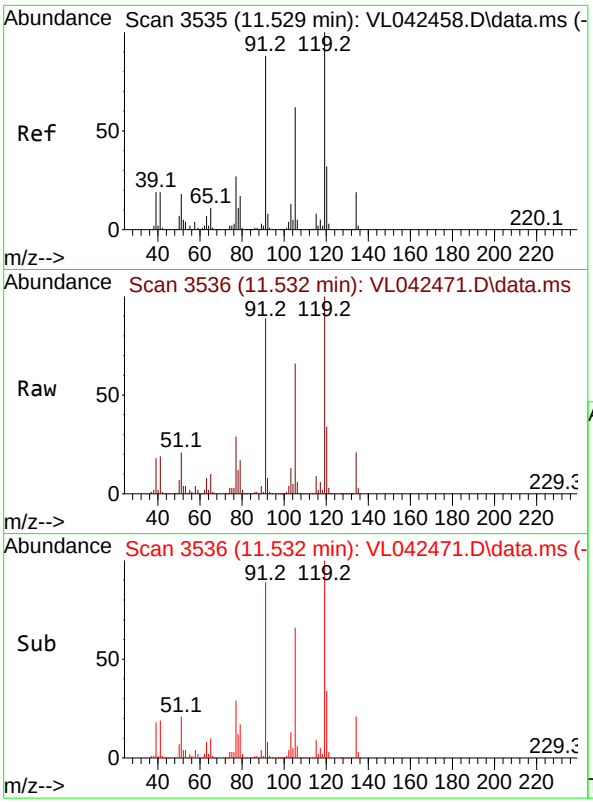


#64
n-propylbenzene
Concen: 10.714 ppbv
RT: 10.992 min Scan# 3369
Delta R.T. 0.003 min
Lab File: VL042471.D
Acq: 05 May 2025 10:07

Tgt Ion:120 Resp: 93814

Ion	Ratio	Lower	Upper
120	100		
91	495.0	408.6	612.8



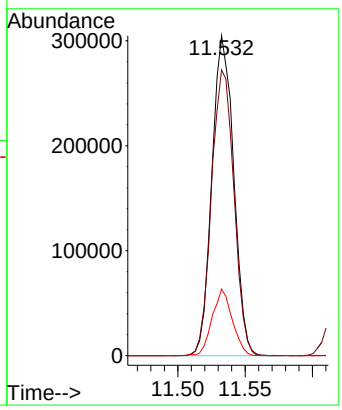


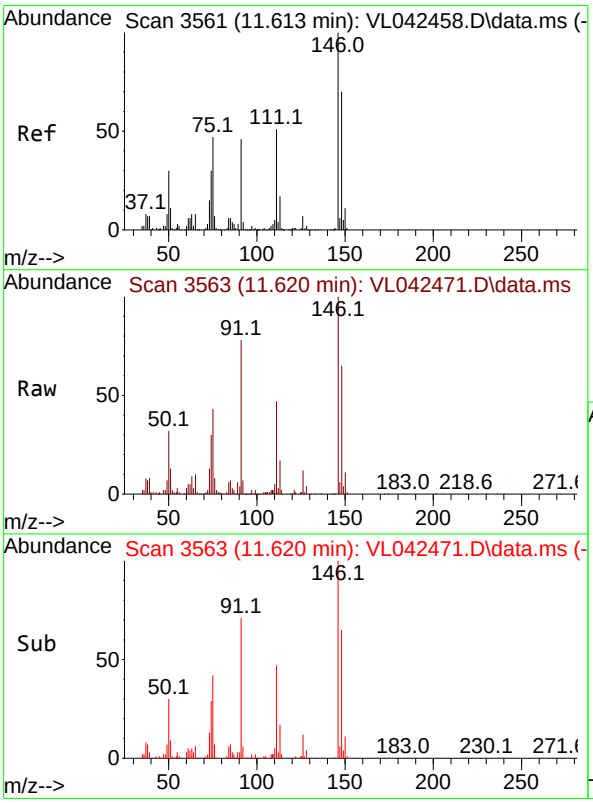
#65
tert-Butylbenzene
Concen: 10.697 ppbv
RT: 11.532 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042471.D
Acq: 05 May 2025 10:07

Instrument :
MSVOA_L
ClientSampleId :
VL0505ABS01

Tgt Ion:119 Resp: 342014

Ion	Ratio	Lower	Upper
119	100		
91	92.3	71.6	107.4
134	19.3	15.0	22.4

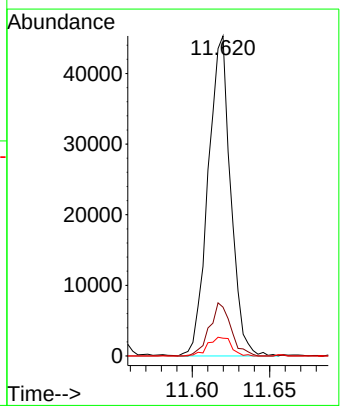


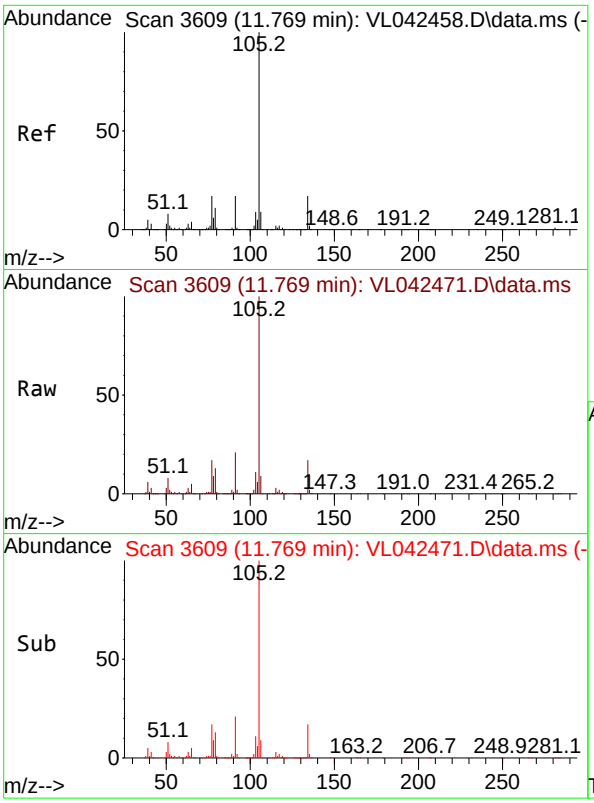


#66
Benzyl Chloride
Concen: 12.370 ppbv
RT: 11.620 min Scan# 3563
Delta R.T. 0.007 min
Lab File: VL042471.D
Acq: 05 May 2025 10:07

Tgt Ion: 91 Resp: 45711

Ion	Ratio	Lower	Upper
91	100		
126	15.7	13.3	19.9
128	6.1	4.2	6.4



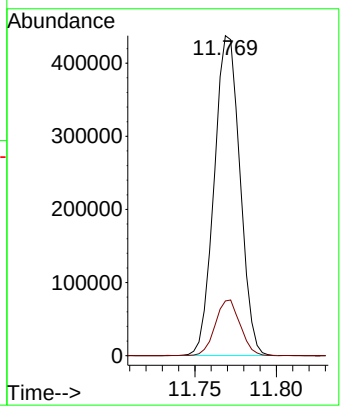


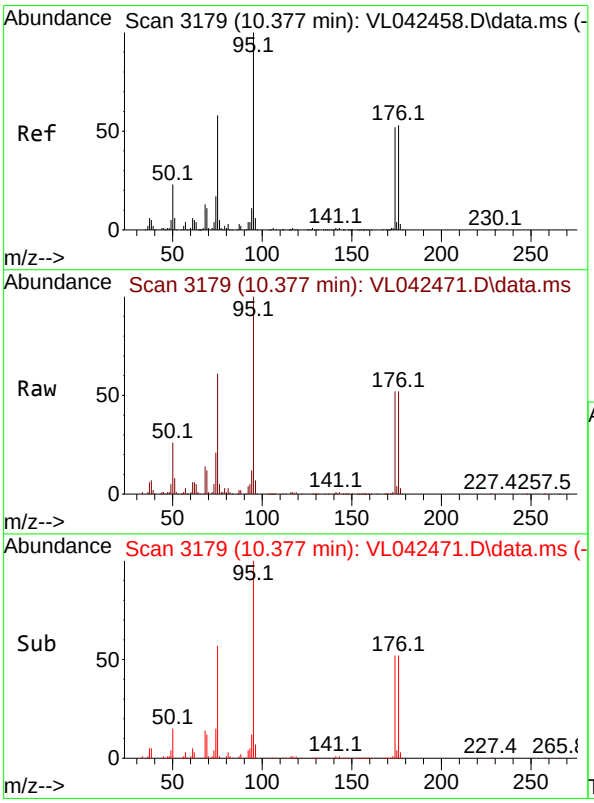
#67
sec-Butylbenzene
Concen: 10.565 ppbv
RT: 11.769 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042471.D
Acq: 05 May 2025 10:07

Instrument :
MSVOA_L
ClientSampleId :
VL0505ABS01

Tgt Ion:105 Resp: 480000

Ion	Ratio	Lower	Upper
105	100		
134	17.0	14.1	21.1

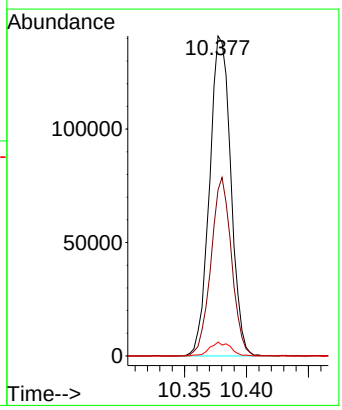


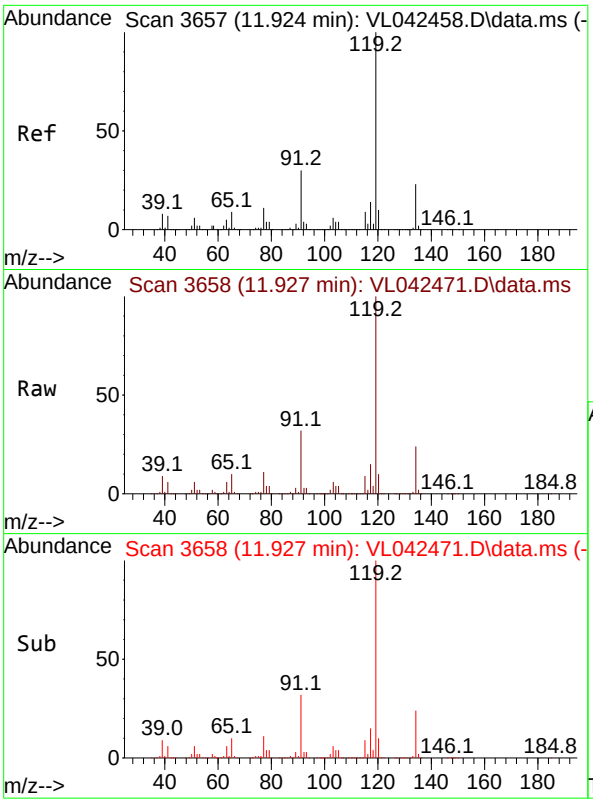


#68
1-Bromo-4-Fluorobenzene
Concen: 10.273 ppbv
RT: 10.377 min Scan# 3179
Delta R.T. 0.000 min
Lab File: VL042471.D
Acq: 05 May 2025 10:07

Tgt Ion: 95 Resp: 168649

Ion	Ratio	Lower	Upper
95	100		
174	54.0	42.7	64.1
175	4.3	3.6	5.4



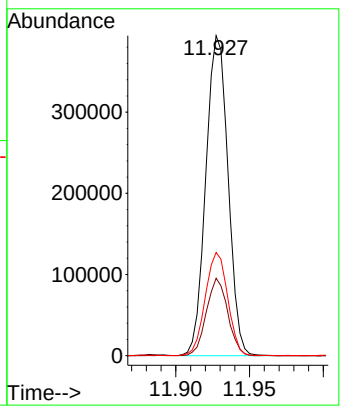


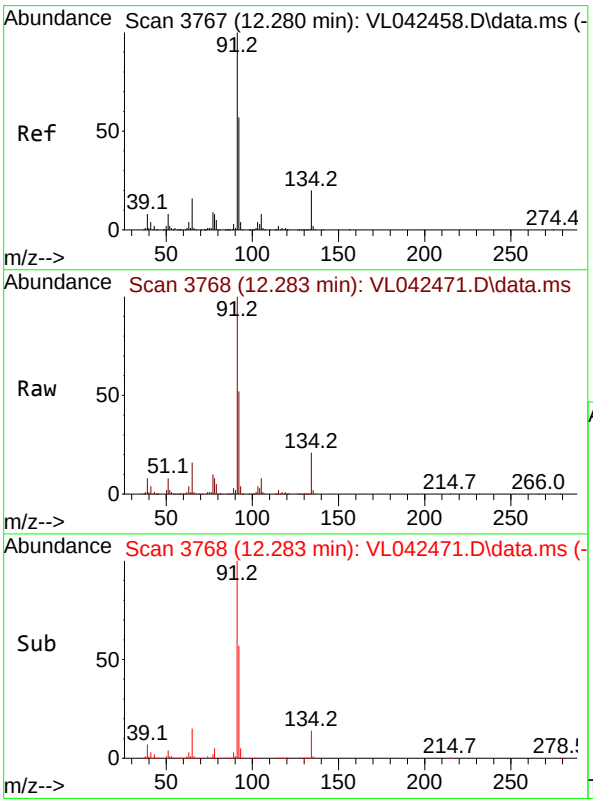
#69
p-Isopropyltoluene
Concen: 10.786 ppbv
RT: 11.927 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042471.D
Acq: 05 May 2025 10:07

Instrument :
MSVOA_L
ClientSampleId :
VL0505ABS01

Tgt Ion:119 Resp: 412889

Ion	Ratio	Lower	Upper
119	100		
134	23.4	19.0	28.4
91	32.8	25.5	38.3

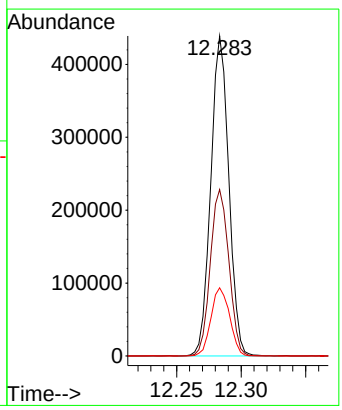


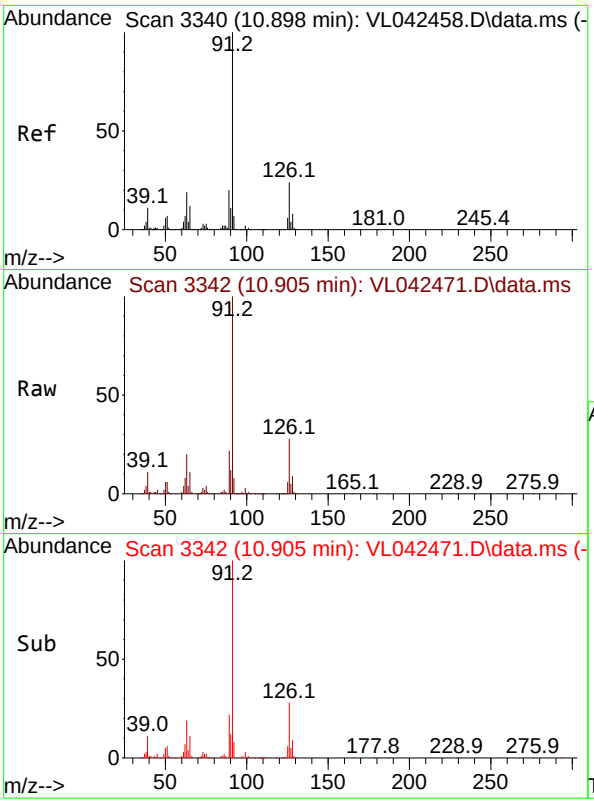


#70
n-Butylbenzene
Concen: 10.756 ppbv
RT: 12.283 min Scan# 3768
Delta R.T. 0.003 min
Lab File: VL042471.D
Acq: 05 May 2025 10:07

Tgt Ion: 91 Resp: 425652

Ion	Ratio	Lower	Upper
91	100		
92	53.5	44.0	66.0
134	22.1	16.8	25.2



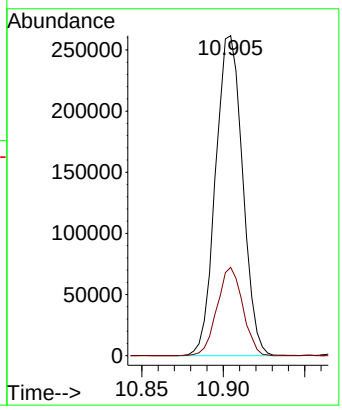


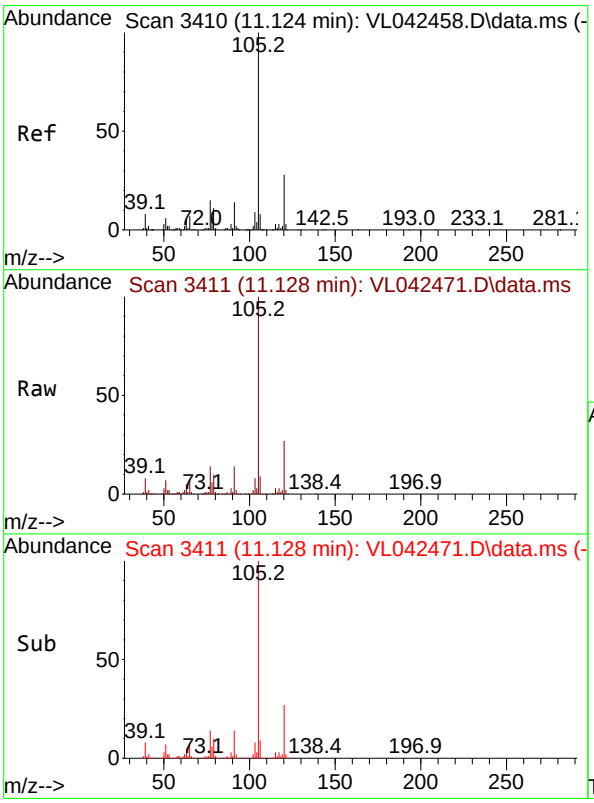
#71
2-Chlorotoluene
Concen: 10.741 ppbv
RT: 10.905 min Scan# 3
Delta R.T. 0.007 min
Lab File: VL042471.D
Acq: 05 May 2025 10:07

Instrument :
MSVOA_L
ClientSampleId :
VL0505ABS01

Tgt Ion: 91 Resp: 301813

Ion	Ratio	Lower	Upper
91	100		
126	26.2	10.6	42.2

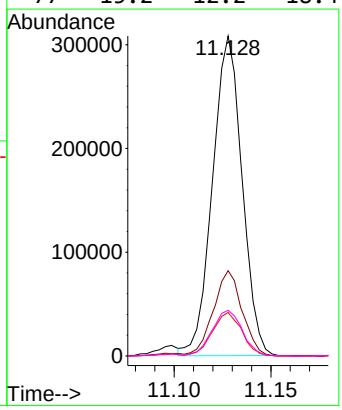


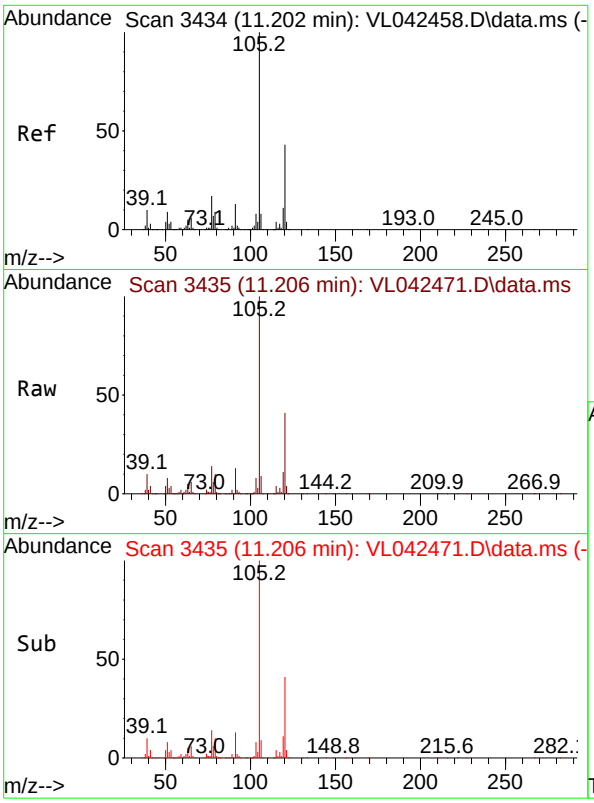


#72
4-Ethyltoluene
Concen: 11.161 ppbv
RT: 11.128 min Scan# 3411
Delta R.T. 0.003 min
Lab File: VL042471.D
Acq: 05 May 2025 10:07

Tgt Ion:105 Resp: 326835

Ion	Ratio	Lower	Upper
105	100		
120	26.8	22.0	33.0
91	14.2	11.2	16.8
77	15.2	12.2	18.4



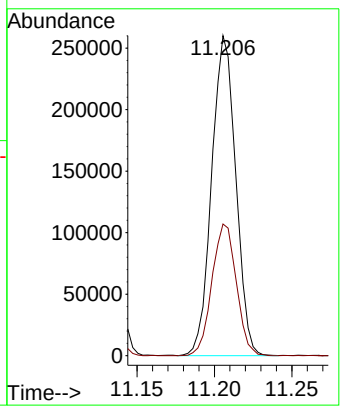


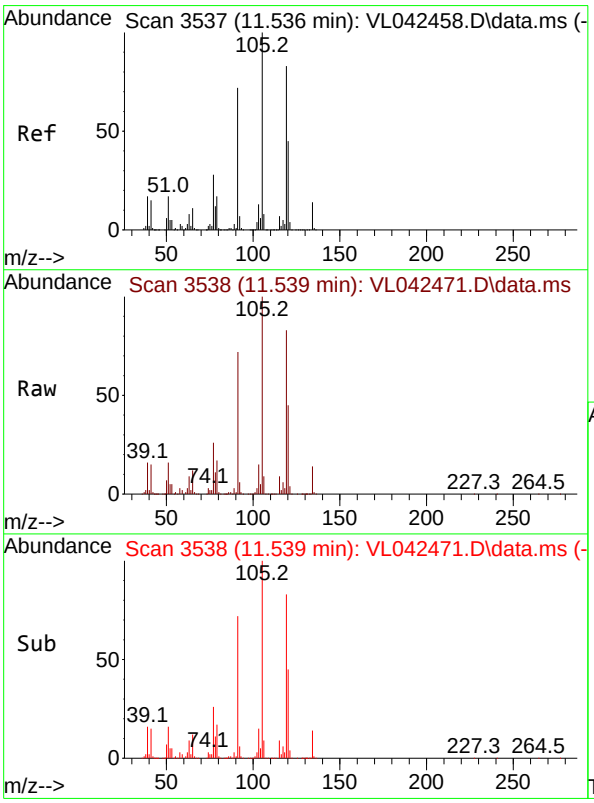
#73
1,3,5-Trimethylbenzene
Concen: 10.900 ppbv
RT: 11.206 min Scan# 34
Delta R.T. 0.003 min
Lab File: VL042471.D
Acq: 05 May 2025 10:07

Instrument :
MSVOA_L
ClientSampleId :
VL0505ABS01

Tgt Ion:105 Resp: 280716

Ion	Ratio	Lower	Upper
105	100		
120	41.2	34.4	51.6

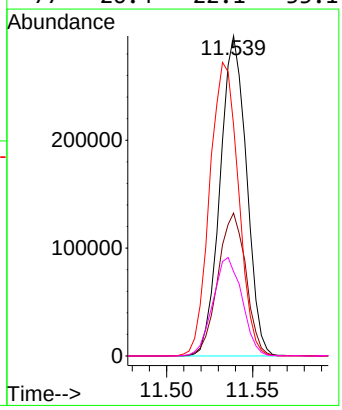


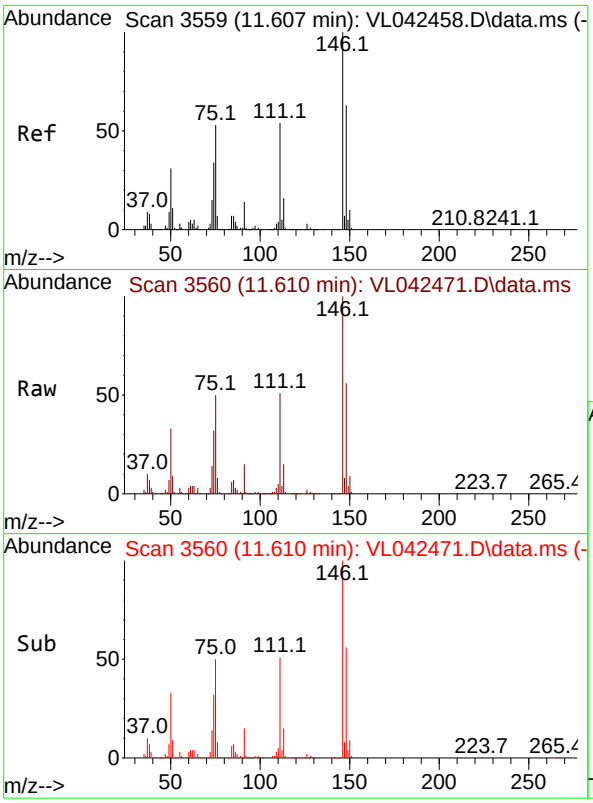


#74
1,2,4-Trimethylbenzene
Concen: 10.143 ppbv
RT: 11.539 min Scan# 3538
Delta R.T. 0.003 min
Lab File: VL042471.D
Acq: 05 May 2025 10:07

Tgt Ion:105 Resp: 316052

Ion	Ratio	Lower	Upper
105	100		
120	44.6	36.1	54.1
91	72.2	57.6	86.4
77	26.4	22.1	33.1



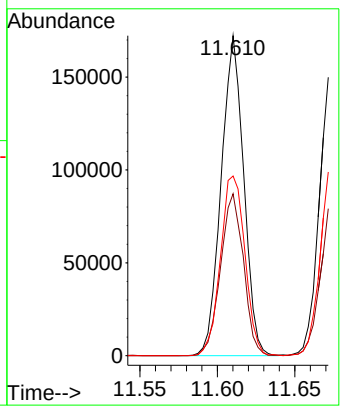


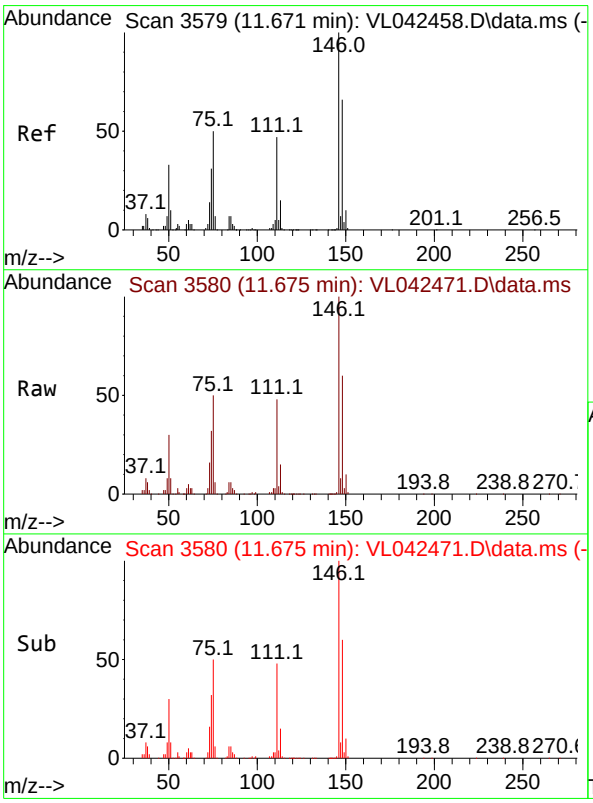
#75
1,3-Dichlorobenzene
Concen: 10.046 ppbv
RT: 11.610 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042471.D
Acq: 05 May 2025 10:07

Instrument :
MSVOA_L
ClientSampleId :
VL0505ABS01

Tgt Ion:146 Resp: 174274

Ion	Ratio	Lower	Upper
146	100		
111	51.5	26.1	78.3
148	61.0	32.0	96.0

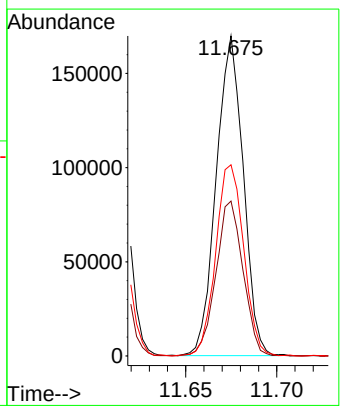


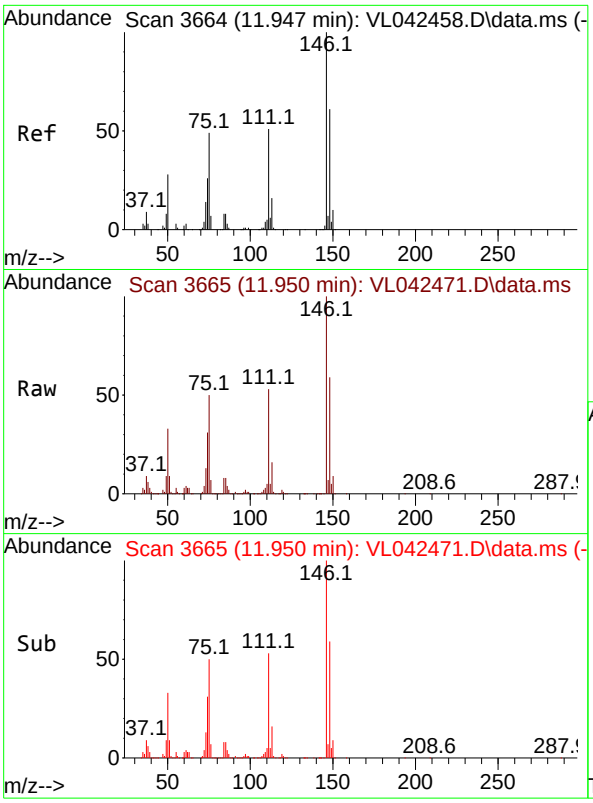


#76
1,4-Dichlorobenzene
Concen: 10.651 ppbv
RT: 11.675 min Scan# 3580
Delta R.T. 0.003 min
Lab File: VL042471.D
Acq: 05 May 2025 10:07

Tgt Ion:146 Resp: 174860

Ion	Ratio	Lower	Upper
146	100		
111	48.7	24.4	73.2
148	62.1	32.0	96.2



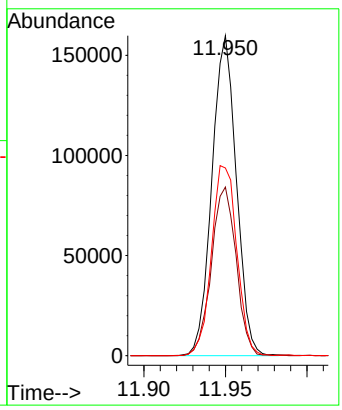


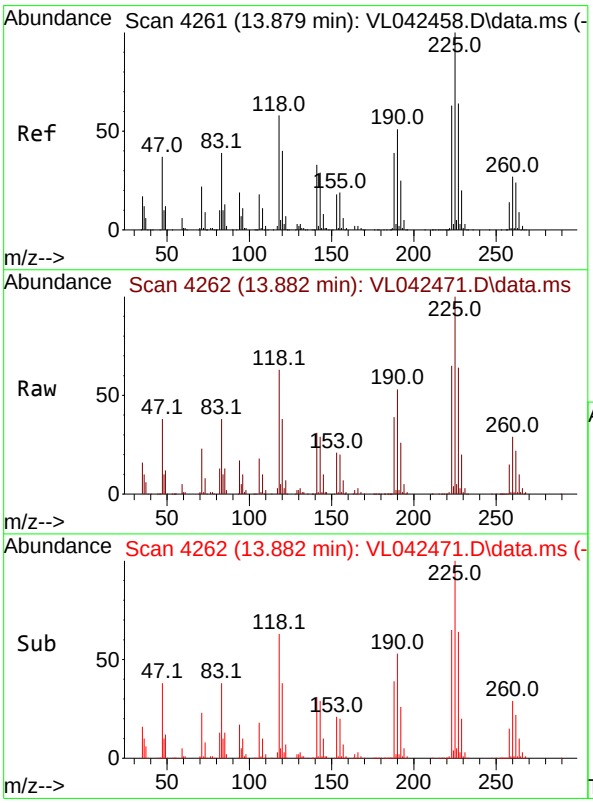
#77
1,2-Dichlorobenzene
Concen: 9.801 ppbv
RT: 11.950 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042471.D
Acq: 05 May 2025 10:07

Instrument :
MSVOA_L
ClientSampleId :
VL0505ABS01

Tgt Ion:146 Resp: 166423

Ion	Ratio	Lower	Upper
146	100		
111	53.6	26.5	79.5
148	61.7	31.5	94.5

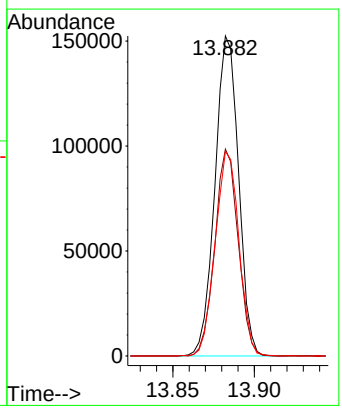


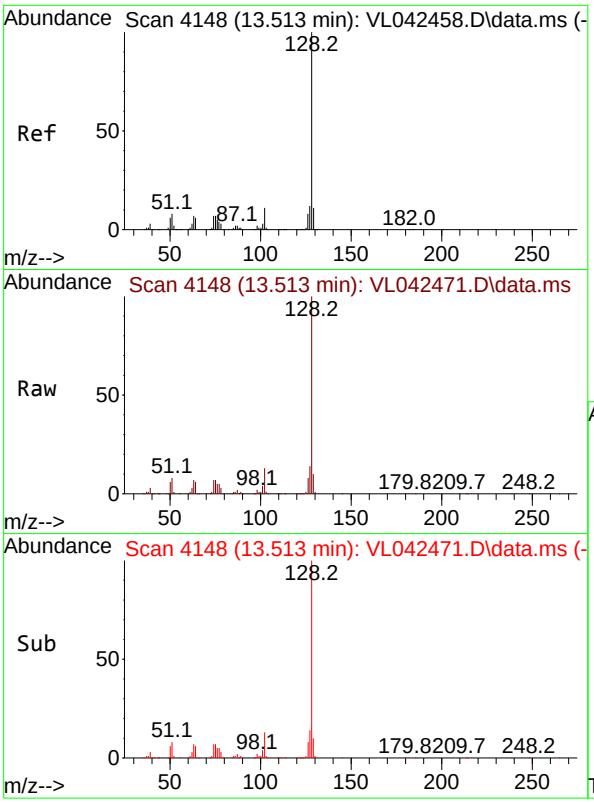


#78
Hexachloro-1,3-Butadiene
Concen: 9.032 ppbv
RT: 13.882 min Scan# 4262
Delta R.T. 0.003 min
Lab File: VL042471.D
Acq: 05 May 2025 10:07

Tgt Ion:225 Resp: 153156

Ion	Ratio	Lower	Upper
225	100		
223	63.9	50.2	75.4
227	64.5	51.2	76.8



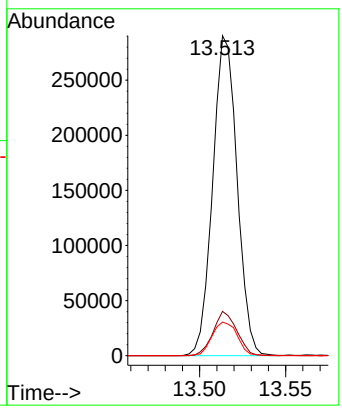


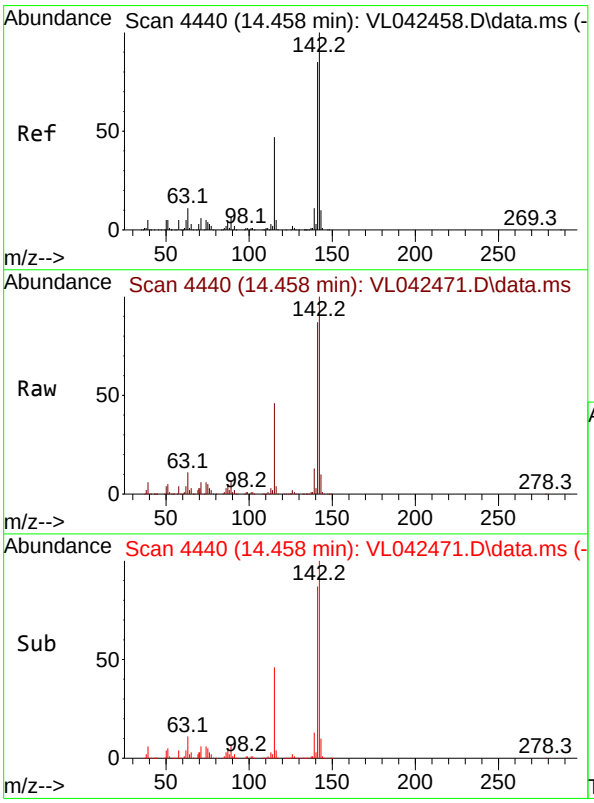
#79
Naphthalene
Concen: 10.911 ppbv
RT: 13.513 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042471.D
Acq: 05 May 2025 10:07

Instrument :
MSVOA_L
ClientSampleId :
VL0505ABS01

Tgt Ion:128 Resp: 286218

Ion	Ratio	Lower	Upper
128	100		
127	13.9	9.7	14.5
129	10.5	8.6	13.0

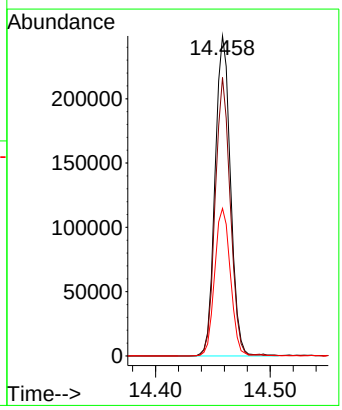


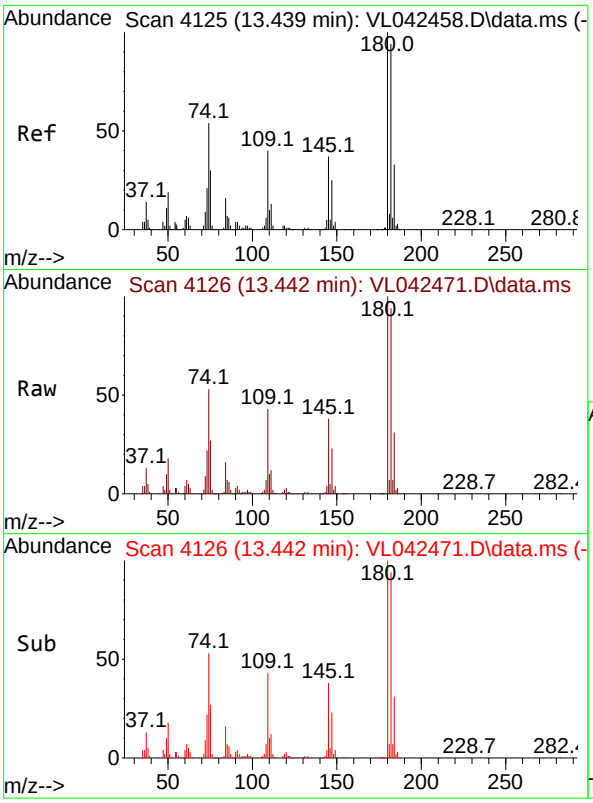


#80
Naphthalene,2-methyl-
Concen: 11.932 ppbv
RT: 14.458 min Scan# 4440
Delta R.T. 0.000 min
Lab File: VL042471.D
Acq: 05 May 2025 10:07

Tgt Ion:142 Resp: 232641

Ion	Ratio	Lower	Upper
142	100		
141	85.1	67.4	101.0
115	47.3	36.9	55.3



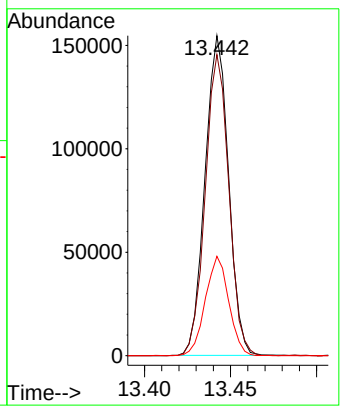


#81
1,2,4-Trichlorobenzene
Concen: 10.513 ppbv
RT: 13.442 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL042471.D
Acq: 05 May 2025 10:07

Instrument :
MSVOA_L
ClientSampleId :
VL0505ABS01

Tgt Ion:180 Resp: 147081

Ion	Ratio	Lower	Upper
180	100		
182	94.3	74.6	111.8
184	31.0	24.9	37.3



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050525\
Data File : VL042473.D
Acq On : 05 May 2025 11:22
Operator : SY/MD
Sample : Q1927-04DL 10X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
EBR-P03-SC-SS01-20250428DL

Quant Time: May 06 01:40:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri May 02 03:16:31 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.790	49	80347	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.965	114	224542	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.885	117	185866	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.377	95	169008	9.808	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 98.100%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.496	85	848	0.064	ppbv		89
3) Chlorodifluoromethane	1.460	51	3618	0.257	ppbv	#	56
4) Chloromethane	1.528	50	713	0.128	ppbv	#	47
7) Chloroethane	1.651	64	65	0.031	ppbv	#	43
9) Propene	1.619	41	3560	0.774	ppbv		100
10) Heptane	4.994	43	1668	0.140	ppbv	#	26
13) Ethanol	1.722	45	8323	8.920	ppbv	#	37
15) Acetone	1.839	43	61972	4.225	ppbv		98
16) 1,3-Butadiene	1.619	39	2089	0.323	ppbv	#	15
17) tert-Butyl alcohol	2.043	59	6740	0.522	ppbv	#	92
19) Isopropyl Alcohol	1.722	45	8323	1.025	ppbv	#	64
20) Methylene Chloride	2.065	84	1004	0.228	ppbv	#	72
23) Vinyl Acetate	2.480	43	12637	0.903	ppbv	#	51
25) Ethyl Acetate	2.826	43	10160	0.433	ppbv	#	77
26) Hexane	2.832	57	13946	1.363	ppbv	#	34
27) Carbon Disulfide	2.146	76	1450	0.121	ppbv	#	1
34) 2-Butanone	2.564	43	4258	0.262	ppbv		93
36) Benzene	3.664	78	1466	0.069	ppbv	#	89
39) 1,2-Dichloropropane	3.962	63	62410	7.868	ppbv	#	21
58) Ethyl Benzene	9.539	91	1146	0.037	ppbv		96
59) m/p-Xylene	9.532	91	1615	0.062	ppbv	#	33
60) o-Xylene	9.969	91	1437	0.055	ppbv		91

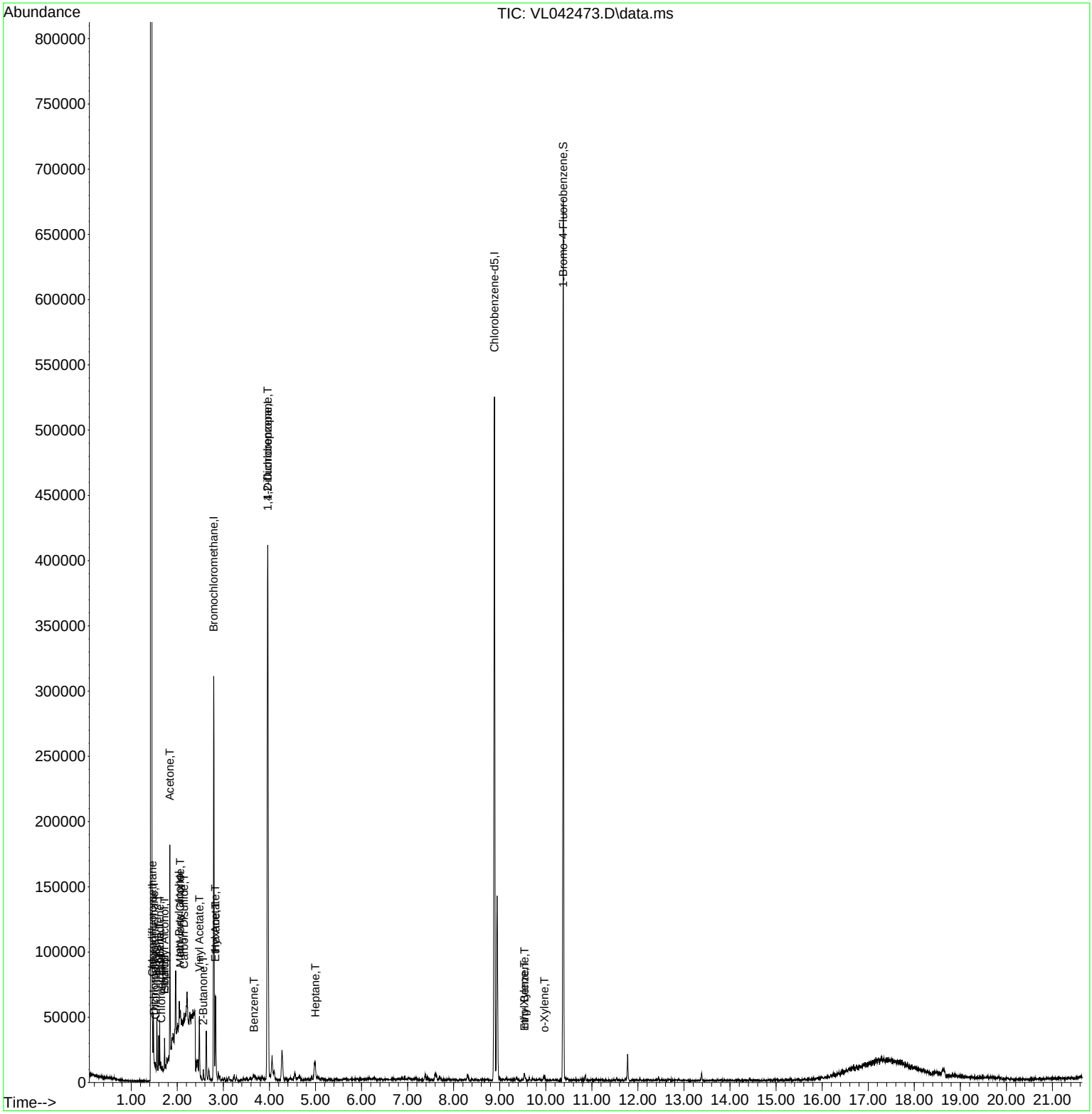
(#) = qualifier out of range (m) = manual integration (+) = signals summed

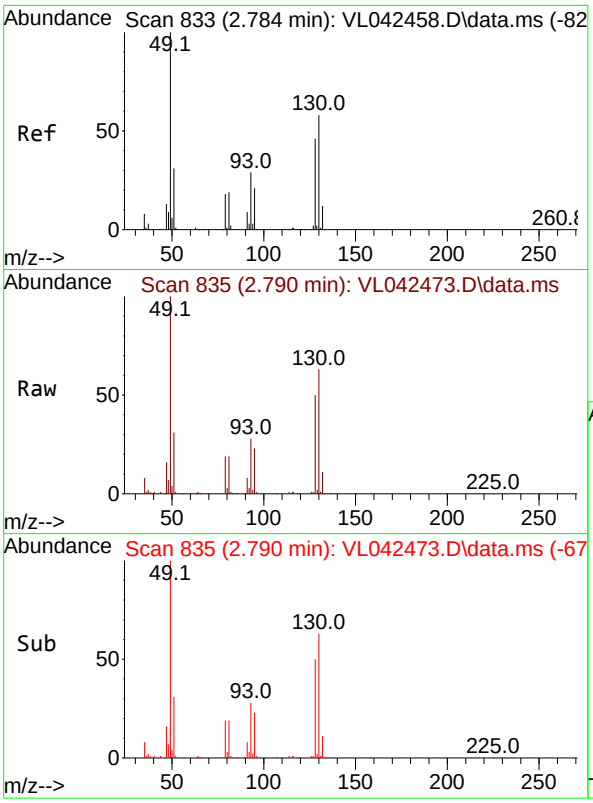
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050525\
Data File : VL042473.D
Acq On : 05 May 2025 11:22
Operator : SY/MD
Sample : Q1927-04DL 10X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
EBR-P03-SC-SS01-20250428DL

Quant Time: May 06 01:40:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri May 02 03:16:31 2025
Response via : Initial Calibration



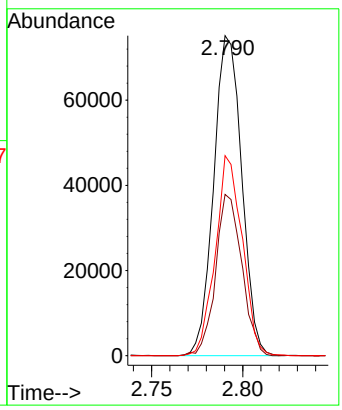


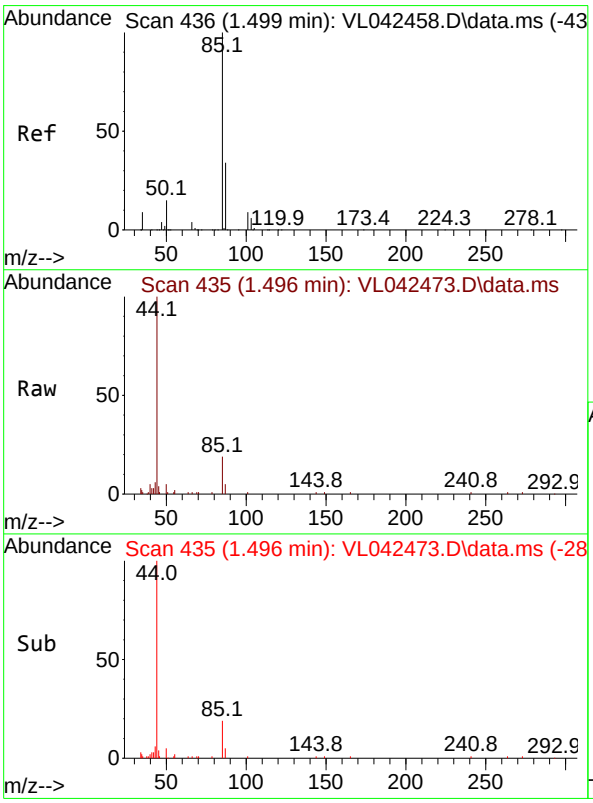
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 8
Delta R.T. 0.006 min
Lab File: VL042473.D
Acq: 05 May 2025 11:22

Instrument :
MSVOA_L
ClientSampleId :
EBR-P03-SC-SS01-20250428DL

Tgt Ion: 49 Resp: 80347

Ion	Ratio	Lower	Upper
49	100		
128	47.1	23.3	69.9
130	60.1	29.5	88.6

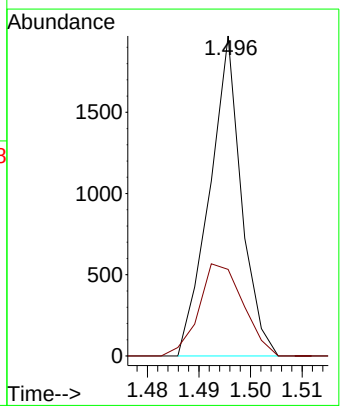


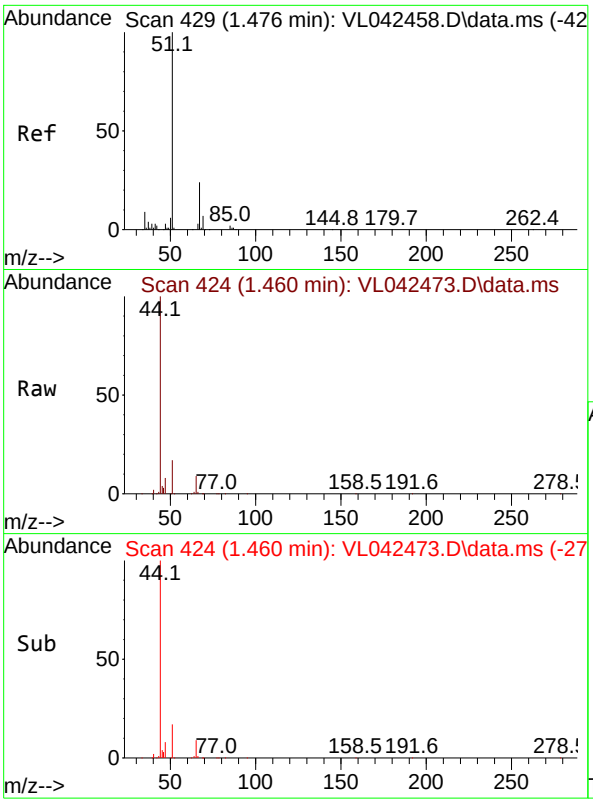


#2
Dichlorodifluoromethane
Concen: 0.064 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.003 min
Lab File: VL042473.D
Acq: 05 May 2025 11:22

Tgt Ion: 85 Resp: 848

Ion	Ratio	Lower	Upper
85	100		
87	27.1	26.9	40.3



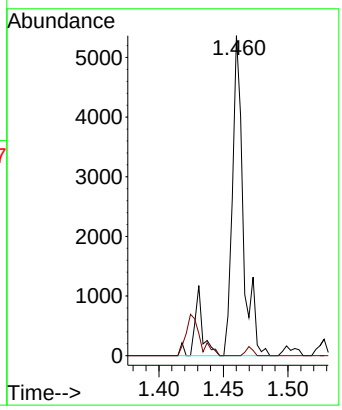


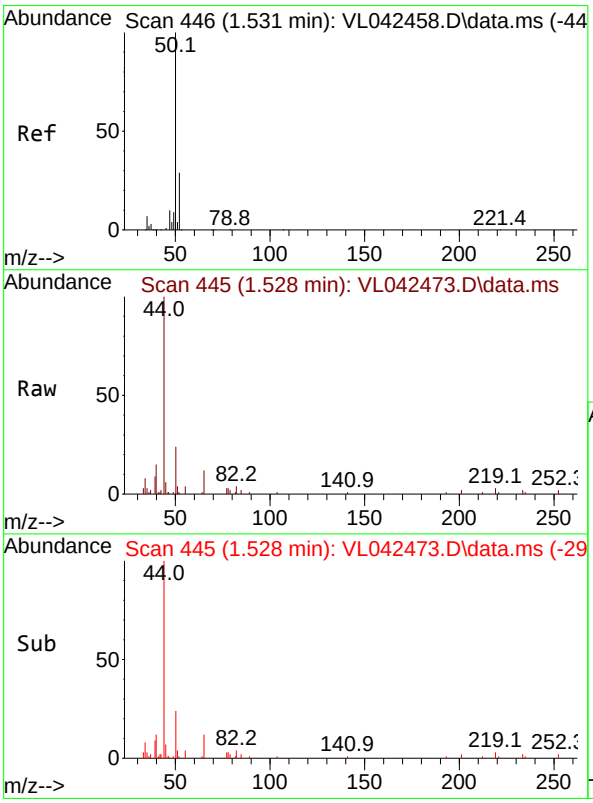
#3
Chlorodifluoromethane
Concen: 0.257 ppbv
RT: 1.460 min Scan# 4
Delta R.T. -0.016 min
Lab File: VL042473.D
Acq: 05 May 2025 11:22

Instrument :
MSVOA_L
ClientSampleId :
EBR-P03-SC-SS01-20250428DL

Tgt Ion: 51 Resp: 3618

Ion	Ratio	Lower	Upper
51	100		
67	1.6	18.4	27.6#

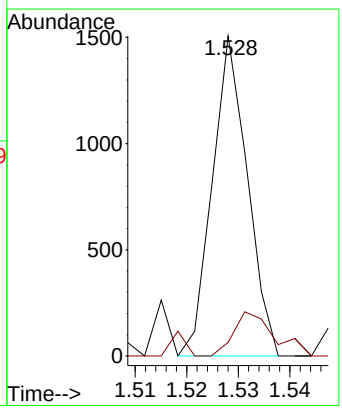


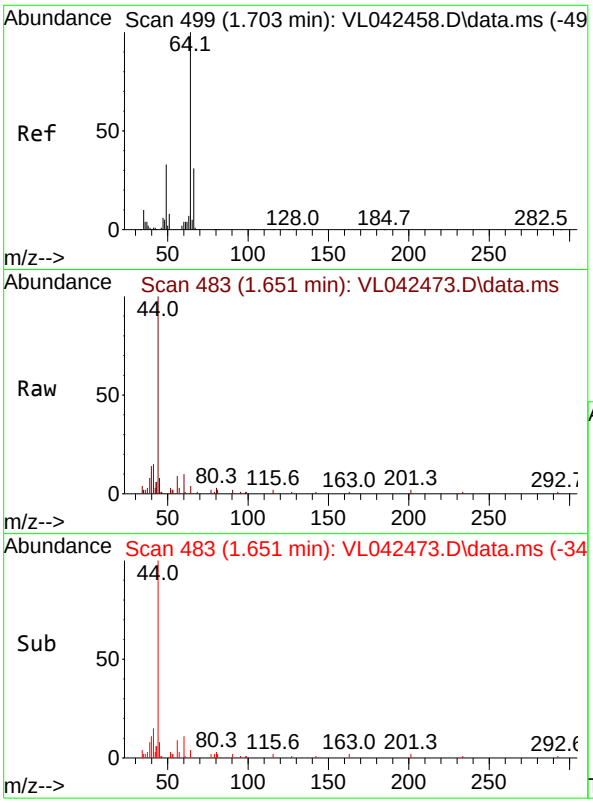


#4
Chloromethane
Concen: 0.128 ppbv
RT: 1.528 min Scan# 445
Delta R.T. -0.003 min
Lab File: VL042473.D
Acq: 05 May 2025 11:22

Tgt Ion: 50 Resp: 713

Ion	Ratio	Lower	Upper
50	100		
52	0.7	23.5	35.3#



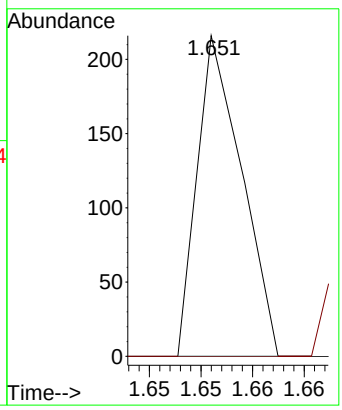


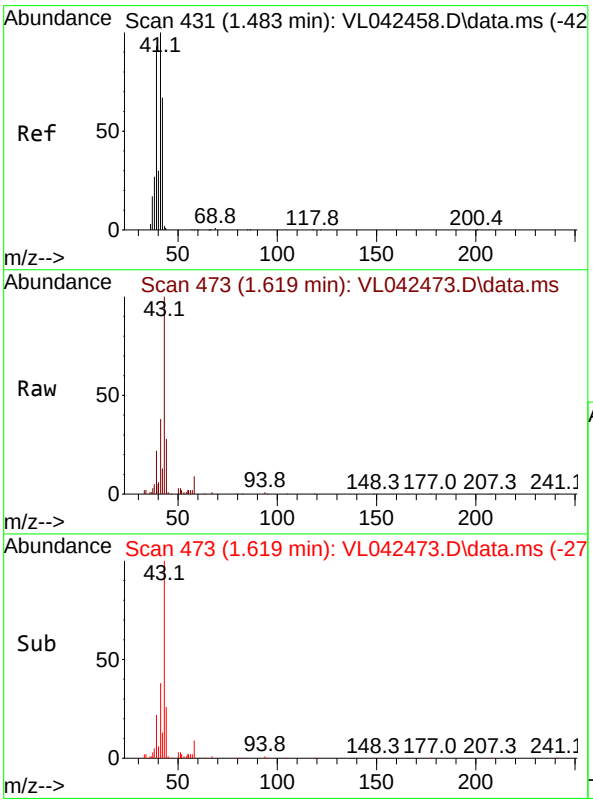
#7
Chloroethane
Concen: 0.031 ppbv
RT: 1.651 min Scan# 4
Delta R.T. -0.052 min
Lab File: VL042473.D
Acq: 05 May 2025 11:22

Instrument :
MSVOA_L
ClientSampleId :
EBR-P03-SC-SS01-20250428DL

Tgt Ion: 64 Resp: 65

Ion	Ratio	Lower	Upper
64	100		
66	0.0	25.0	37.4#

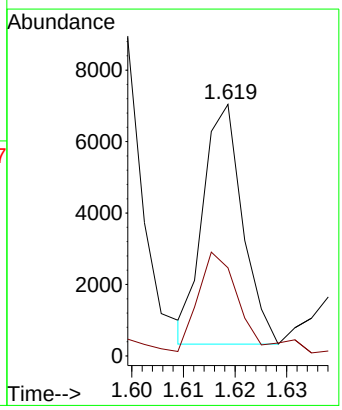


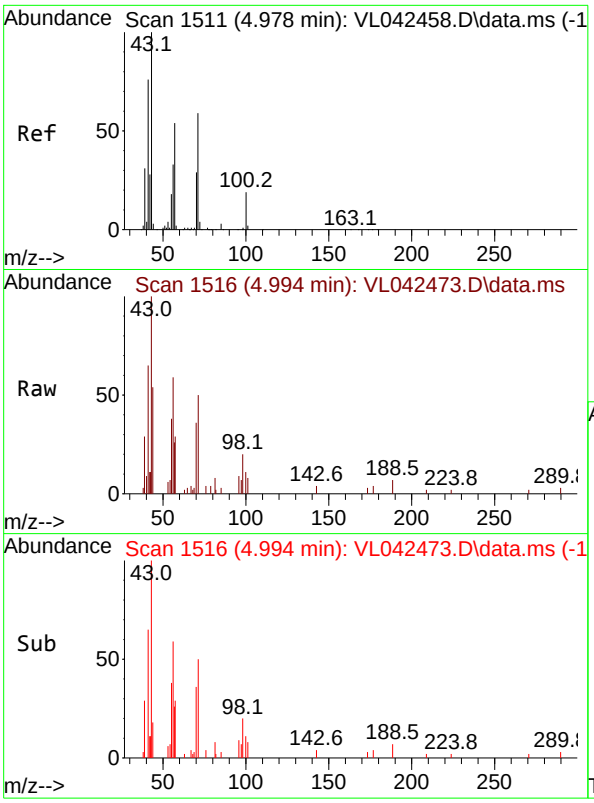


#9
Propene
Concen: 0.774 ppbv
RT: 1.619 min Scan# 473
Delta R.T. 0.136 min
Lab File: VL042473.D
Acq: 05 May 2025 11:22

Tgt Ion: 41 Resp: 3560

Ion	Ratio	Lower	Upper
41	100		
42	68.2	54.3	81.5



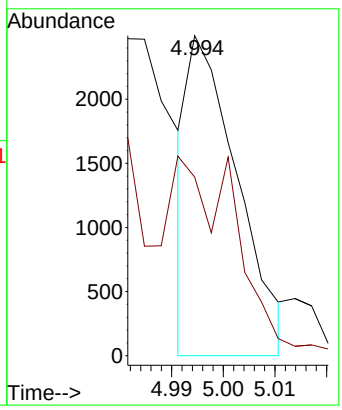


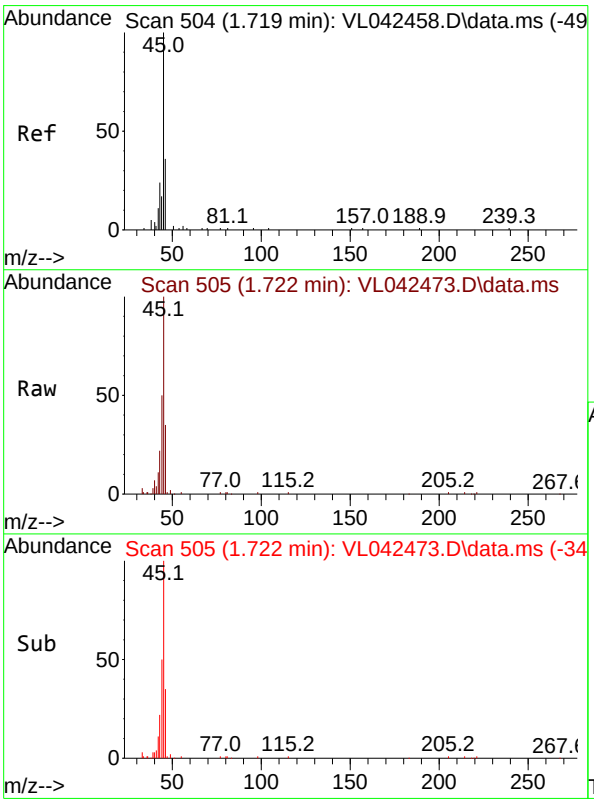
#10
Heptane
Concen: 0.140 ppbv
RT: 4.994 min Scan# 1
Delta R.T. 0.016 min
Lab File: VL042473.D
Acq: 05 May 2025 11:22

Instrument :
MSVOA_L
ClientSampleId :
EBR-P03-SC-SS01-20250428DL

Tgt Ion: 43 Resp: 1668

Ion	Ratio	Lower	Upper
43	100		
57	0.0	41.8	62.8#

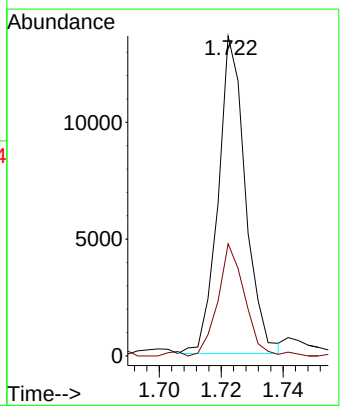


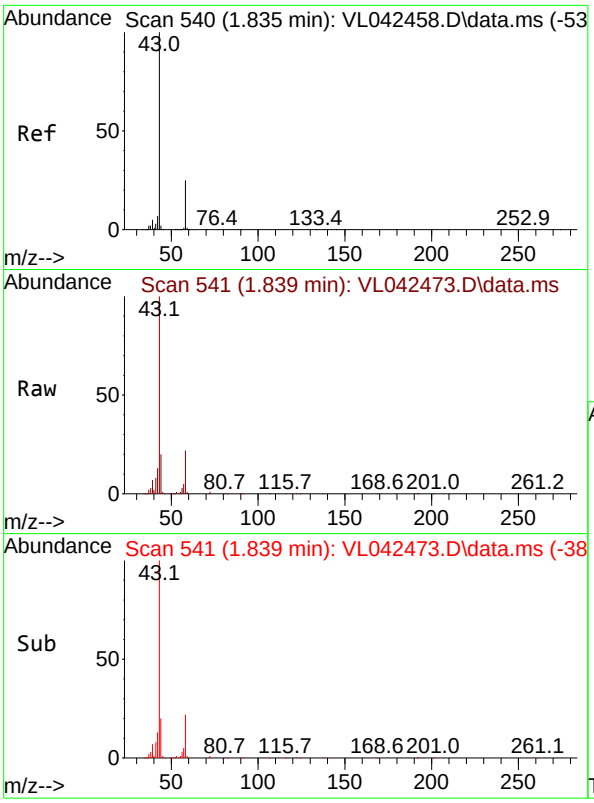


#13
Ethanol
Concen: 8.920 ppbv
RT: 1.722 min Scan# 505
Delta R.T. 0.003 min
Lab File: VL042473.D
Acq: 05 May 2025 11:22

Tgt Ion: 45 Resp: 8323

Ion	Ratio	Lower	Upper
45	100		
46	0.0	15.3	61.1#



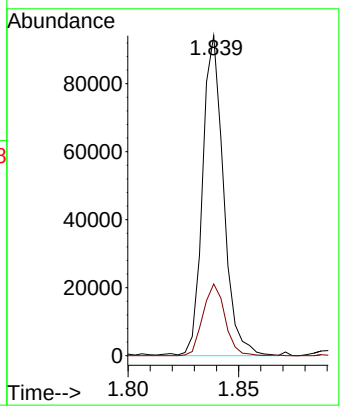


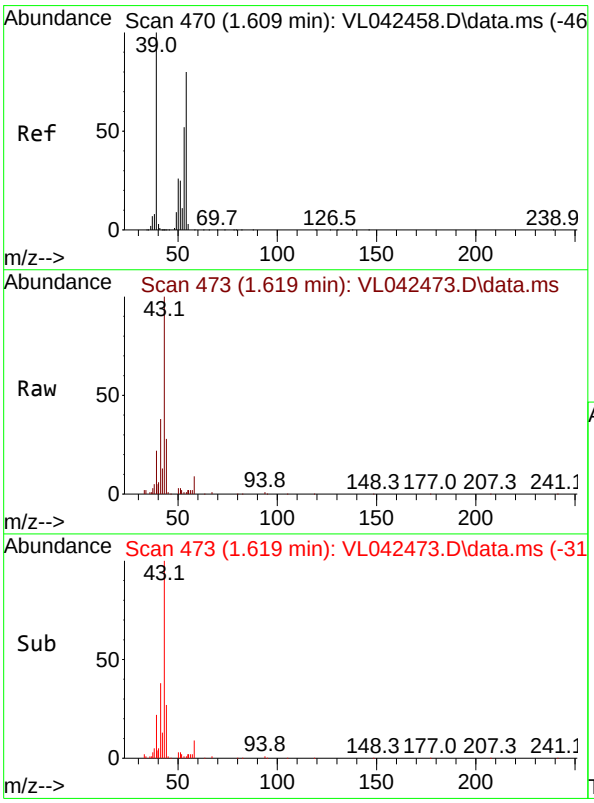
#15
Acetone
Concen: 4.225 ppbv
RT: 1.839 min Scan# 54
Delta R.T. 0.003 min
Lab File: VL042473.D
Acq: 05 May 2025 11:22

Instrument :
MSVOA_L
ClientSampleId :
EBR-P03-SC-SS01-20250428DL

Tgt Ion: 43 Resp: 61972

Ion	Ratio	Lower	Upper
43	100		
58	23.7	19.8	29.8

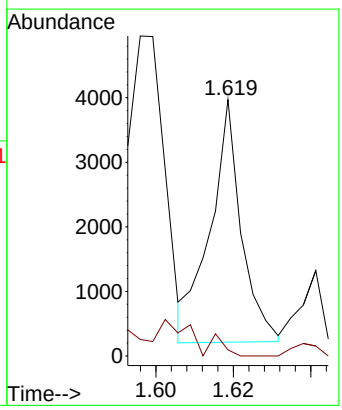


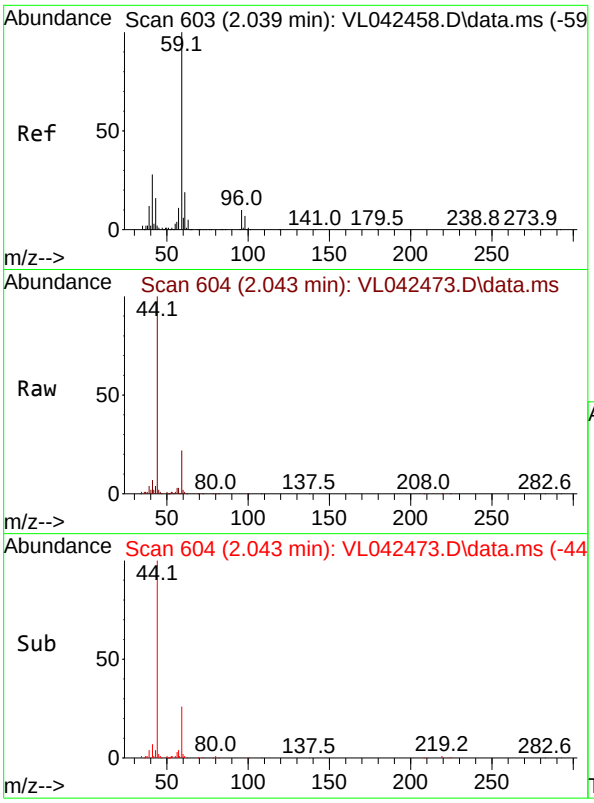


#16
1,3-Butadiene
Concen: 0.323 ppbv
RT: 1.619 min Scan# 473
Delta R.T. 0.010 min
Lab File: VL042473.D
Acq: 05 May 2025 11:22

Tgt Ion: 39 Resp: 2089

Ion	Ratio	Lower	Upper
39	100		
54	0.0	55.2	82.8#



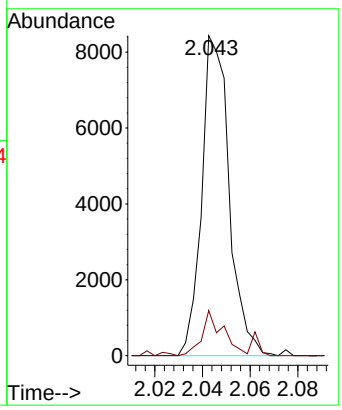


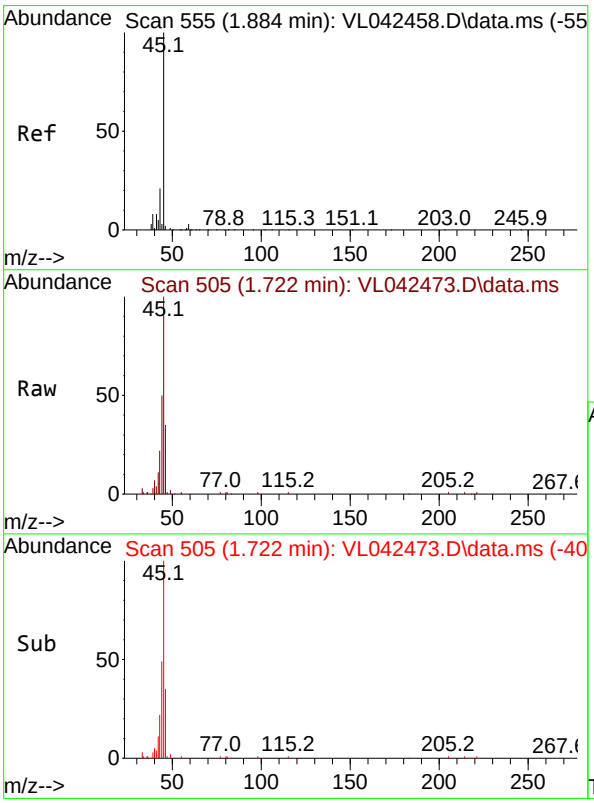
#17
tert-Butyl alcohol
Concen: 0.522 ppbv
RT: 2.043 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL042473.D
Acq: 05 May 2025 11:22

Instrument :
MSVOA_L
ClientSampleId :
EBR-P03-SC-SS01-20250428DL

Tgt Ion: 59 Resp: 6740

Ion	Ratio	Lower	Upper
59	100		
57	13.4	8.3	12.5#

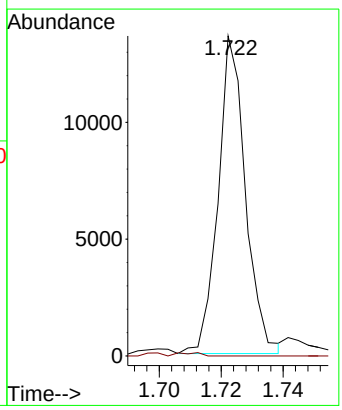


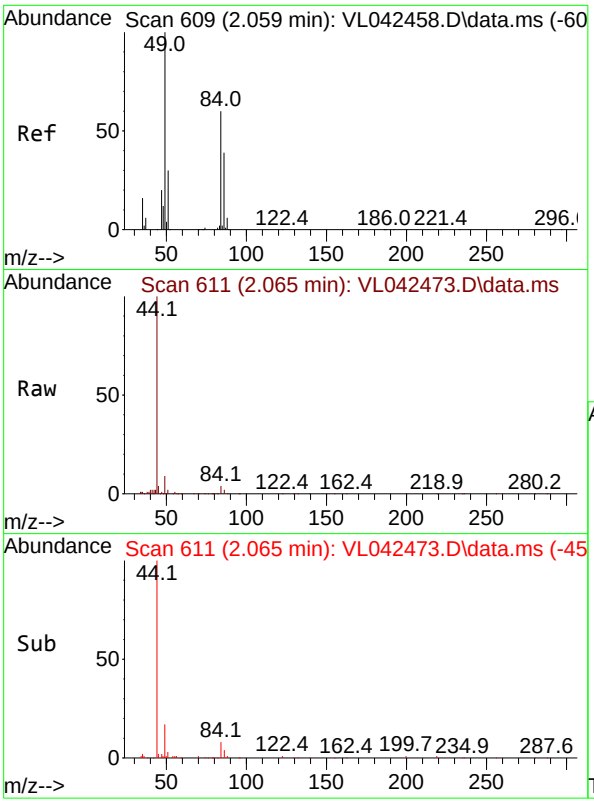


#19
Isopropyl Alcohol
Concen: 1.025 ppbv
RT: 1.722 min Scan# 505
Delta R.T. -0.162 min
Lab File: VL042473.D
Acq: 05 May 2025 11:22

Tgt Ion: 45 Resp: 8323

Ion	Ratio	Lower	Upper
45	100		
58	14.6	1.6	2.4#



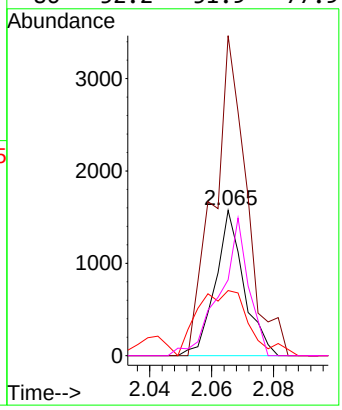


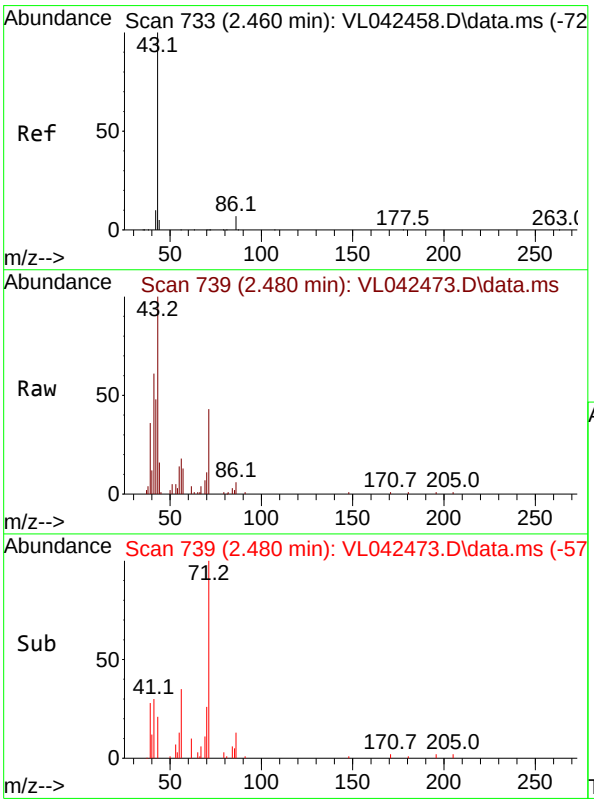
#20
Methylene Chloride
Concen: 0.228 ppbv
RT: 2.065 min Scan# 6
Delta R.T. 0.007 min
Lab File: VL042473.D
Acq: 05 May 2025 11:22

Instrument :
MSVOA_L
ClientSampleId :
EBR-P03-SC-SS01-20250428DL

Tgt Ion: 84 Resp: 1004

Ion	Ratio	Lower	Upper
84	100		
49	220.1	133.9	200.9#
51	44.8	41.0	61.6
86	52.2	51.9	77.9

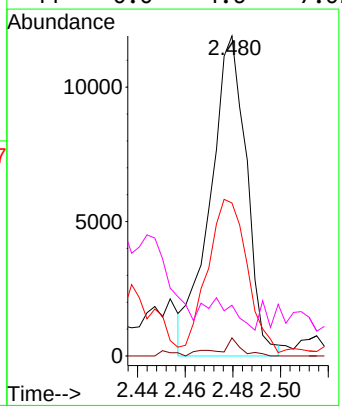


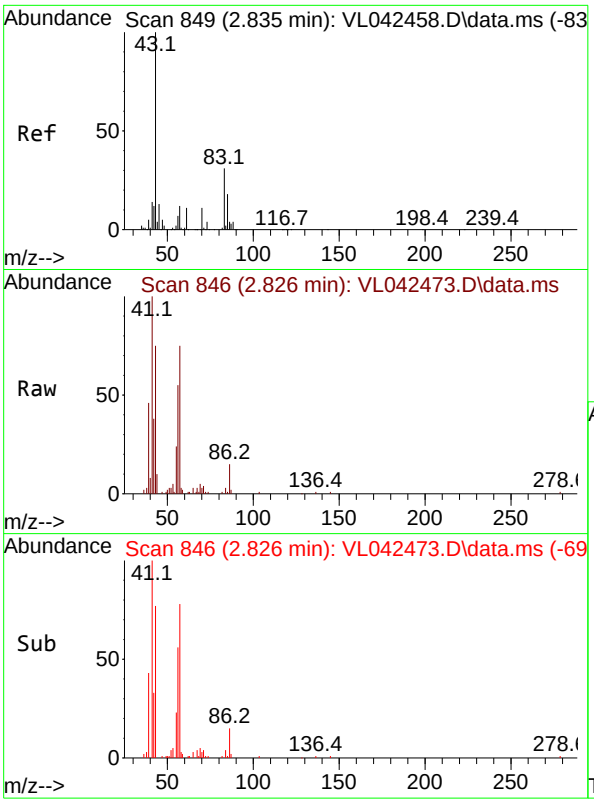


#23
Vinyl Acetate
Concen: 0.903 ppbv
RT: 2.480 min Scan# 739
Delta R.T. 0.020 min
Lab File: VL042473.D
Acq: 05 May 2025 11:22

Tgt Ion: 43 Resp: 12637

Ion	Ratio	Lower	Upper
43	100		
86	5.9	5.5	8.3
42	47.1	8.3	12.5#
44	0.0	4.6	7.0#



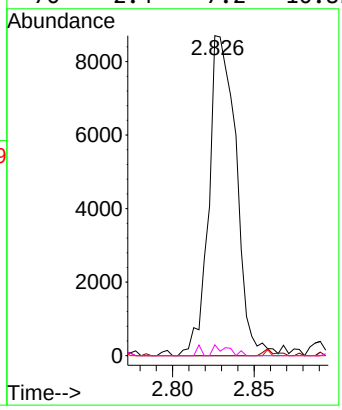


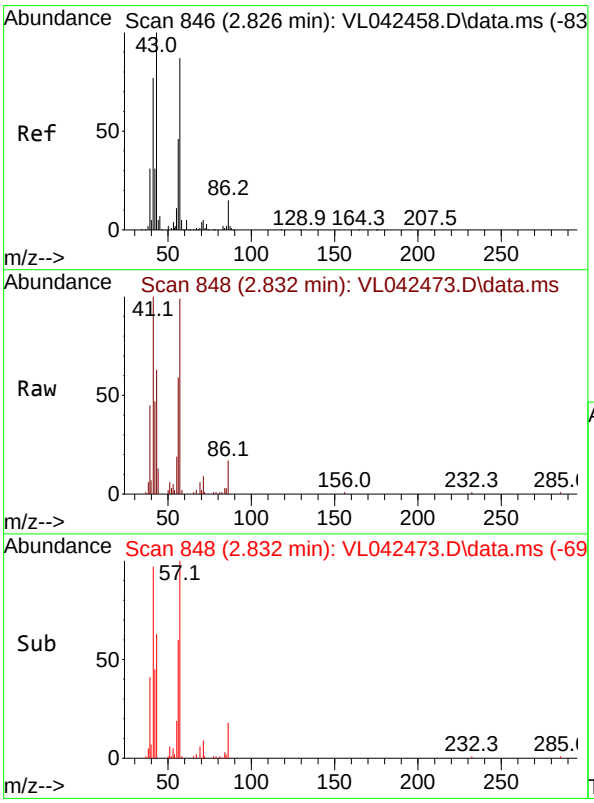
#25
Ethyl Acetate
Concen: 0.433 ppbv
RT: 2.826 min Scan# 84
Delta R.T. -0.010 min
Lab File: VL042473.D
Acq: 05 May 2025 11:22

Instrument :
MSVOA_L
ClientSampleId :
EBR-P03-SC-SS01-20250428DL

Tgt Ion: 43 Resp: 10160

Ion	Ratio	Lower	Upper
43	100		
45	0.0	7.8	11.6#
61	0.0	7.2	10.8#
70	2.4	7.2	10.8#

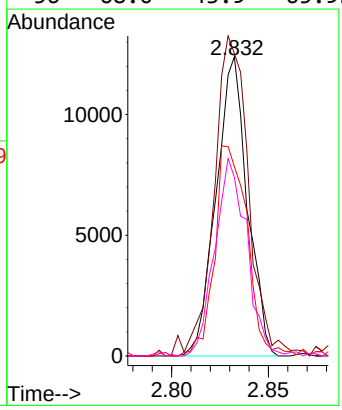


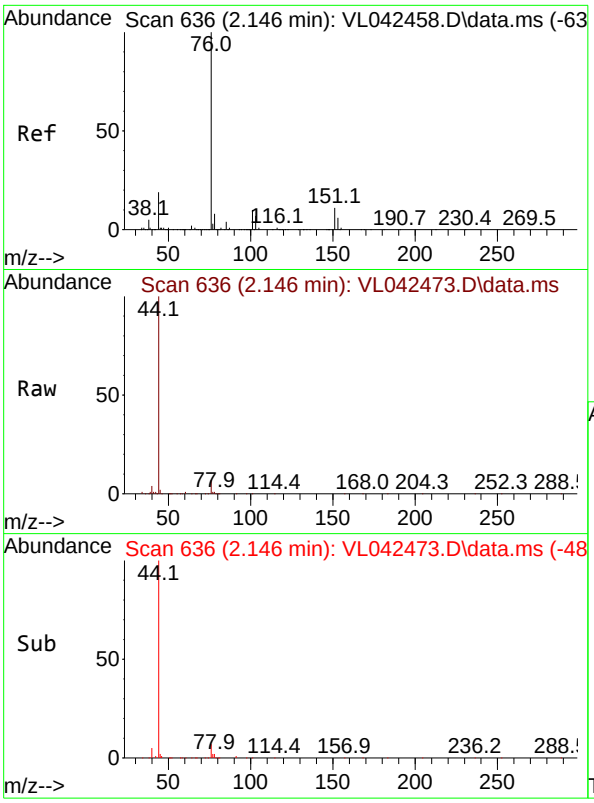


#26
Hexane
Concen: 1.363 ppbv
RT: 2.832 min Scan# 848
Delta R.T. 0.007 min
Lab File: VL042473.D
Acq: 05 May 2025 11:22

Tgt Ion: 57 Resp: 13946

Ion	Ratio	Lower	Upper
57	100		
41	118.3	77.8	116.8#
43	73.6	187.0	280.6#
56	68.0	43.9	65.9#



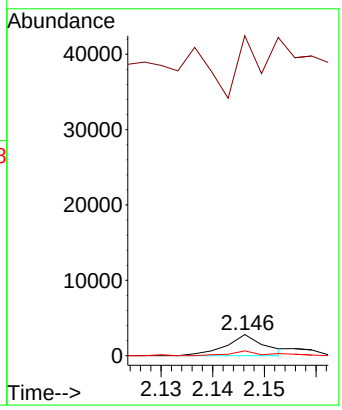


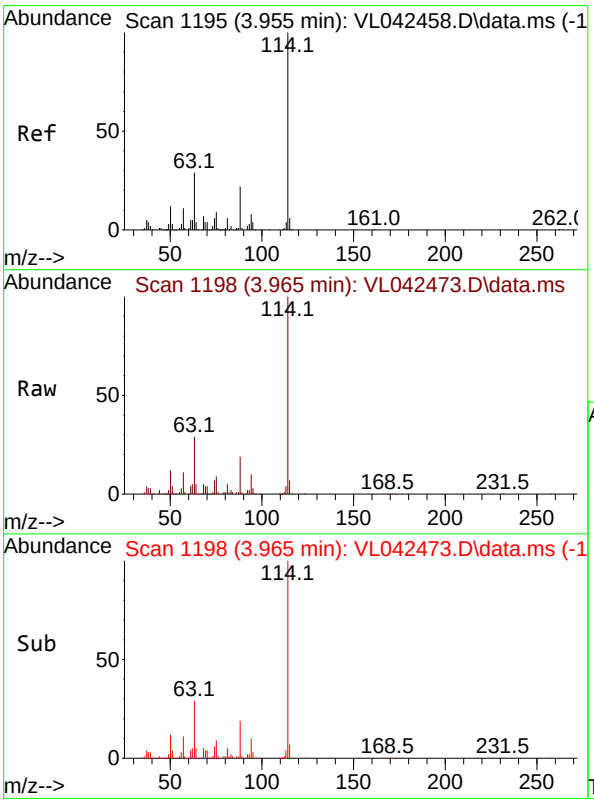
#27
Carbon Disulfide
Concen: 0.121 ppbv
RT: 2.146 min Scan# 6
Delta R.T. 0.000 min
Lab File: VL042473.D
Acq: 05 May 2025 11:22

Instrument :
MSVOA_L
ClientSampleId :
EBR-P03-SC-SS01-20250428DL

Tgt Ion: 76 Resp: 1450

Ion	Ratio	Lower	Upper
76	100		
44	11662.3	21.0	31.6#
78	26.6	8.6	13.0#

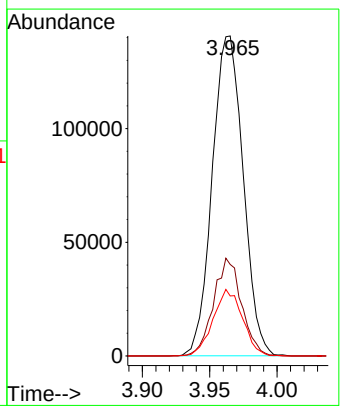


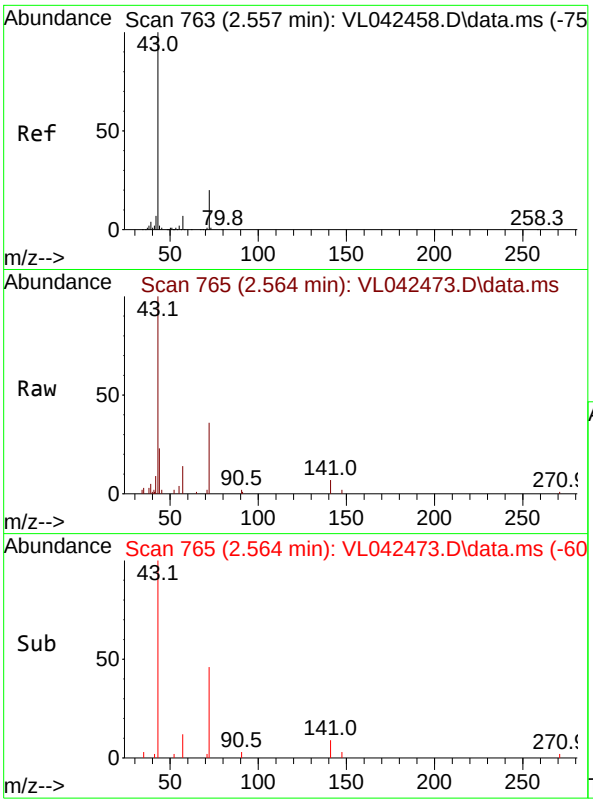


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.965 min Scan# 1198
Delta R.T. 0.010 min
Lab File: VL042473.D
Acq: 05 May 2025 11:22

Tgt Ion:114 Resp: 224542

Ion	Ratio	Lower	Upper
114	100		
63	27.8	23.1	34.7
88	19.8	16.1	24.1



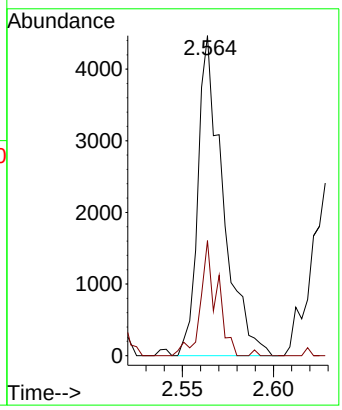


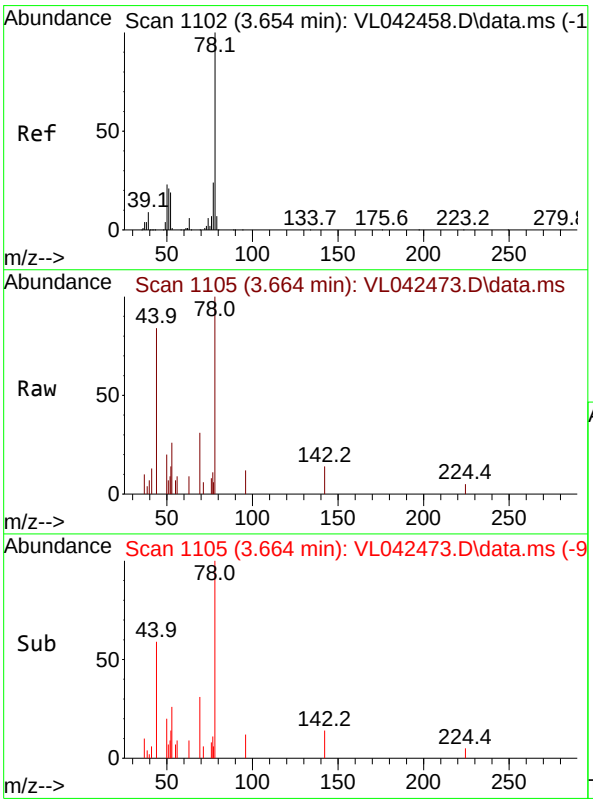
#34
2-Butanone
Concen: 0.262 ppbv
RT: 2.564 min Scan# 7
Delta R.T. 0.007 min
Lab File: VL042473.D
Acq: 05 May 2025 11:22

Instrument :
MSVOA_L
ClientSampleId :
EBR-P03-SC-SS01-20250428DL

Tgt Ion: 43 Resp: 4258

Ion	Ratio	Lower	Upper
43	100		
72	24.4	16.7	25.1

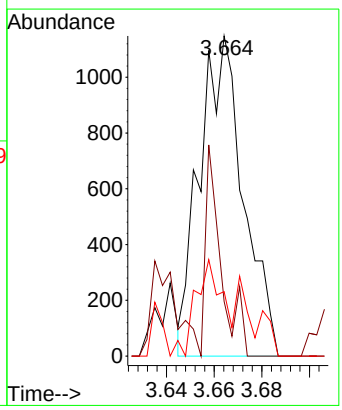


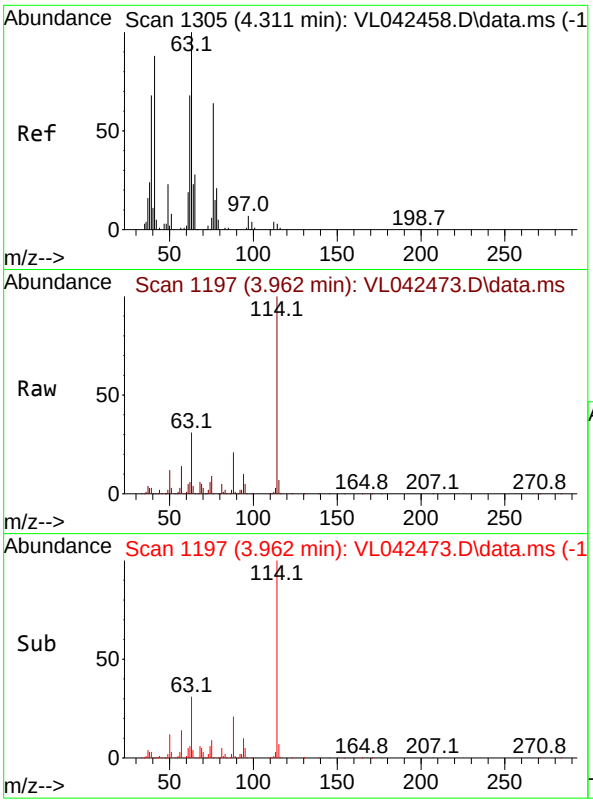


#36
Benzene
Concen: 0.069 ppbv
RT: 3.664 min Scan# 1105
Delta R.T. 0.010 min
Lab File: VL042473.D
Acq: 05 May 2025 11:22

Tgt Ion: 78 Resp: 1466

Ion	Ratio	Lower	Upper
78	100		
77	17.1	18.9	28.3#
50	26.7	18.4	27.6



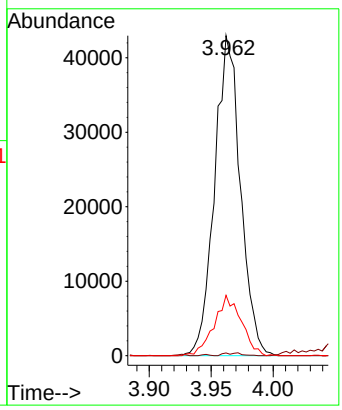


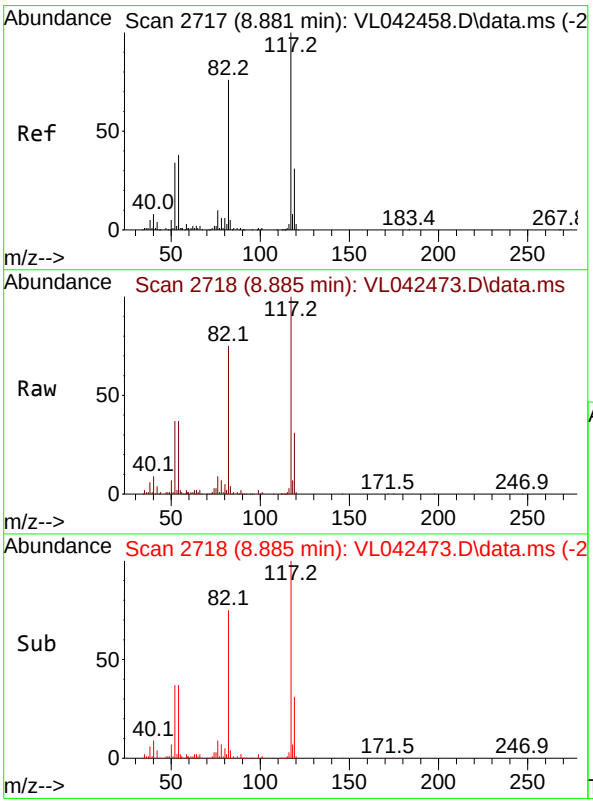
#39
1,2-Dichloropropane
Concen: 7.868 ppbv
RT: 3.962 min Scan# 11
Delta R.T. -0.349 min
Lab File: VL042473.D
Acq: 05 May 2025 11:22

Instrument :
MSVOA_L
ClientSampleId :
EBR-P03-SC-SS01-20250428DL

Tgt Ion: 63 Resp: 62410

Ion	Ratio	Lower	Upper
63	100		
41	0.6	69.8	104.6#
62	18.9	54.3	81.5#

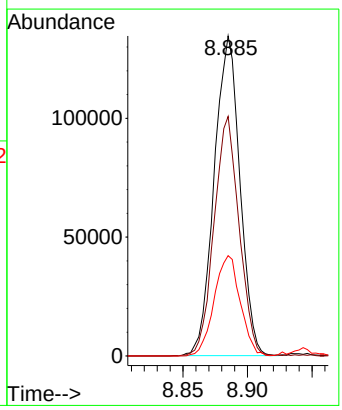


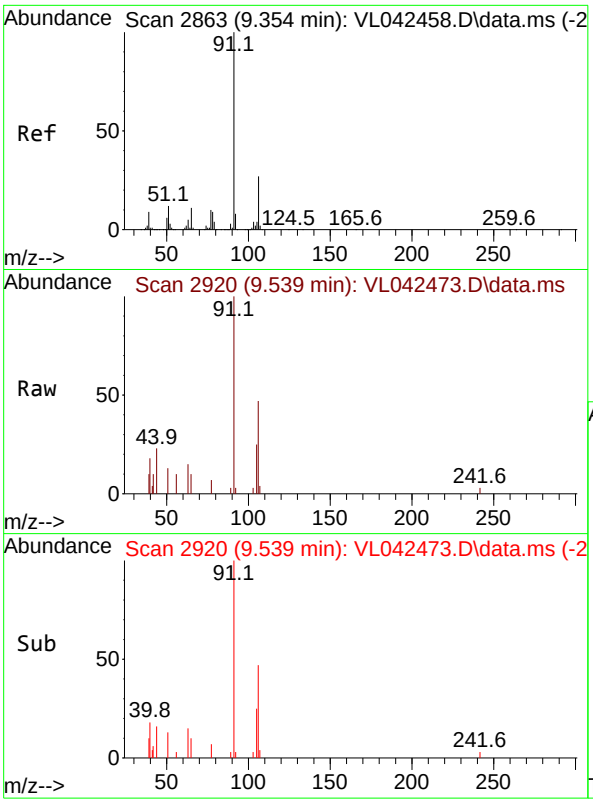


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.885 min Scan# 2718
Delta R.T. 0.003 min
Lab File: VL042473.D
Acq: 05 May 2025 11:22

Tgt Ion:117 Resp: 185866

Ion	Ratio	Lower	Upper
117	100		
82	73.4	63.5	95.3
119	31.9	25.8	38.8



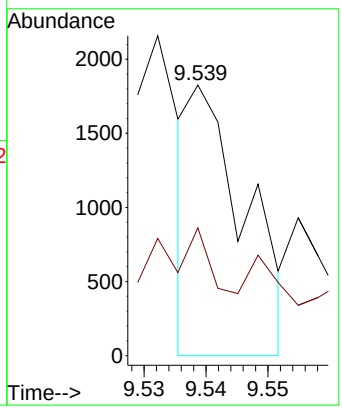


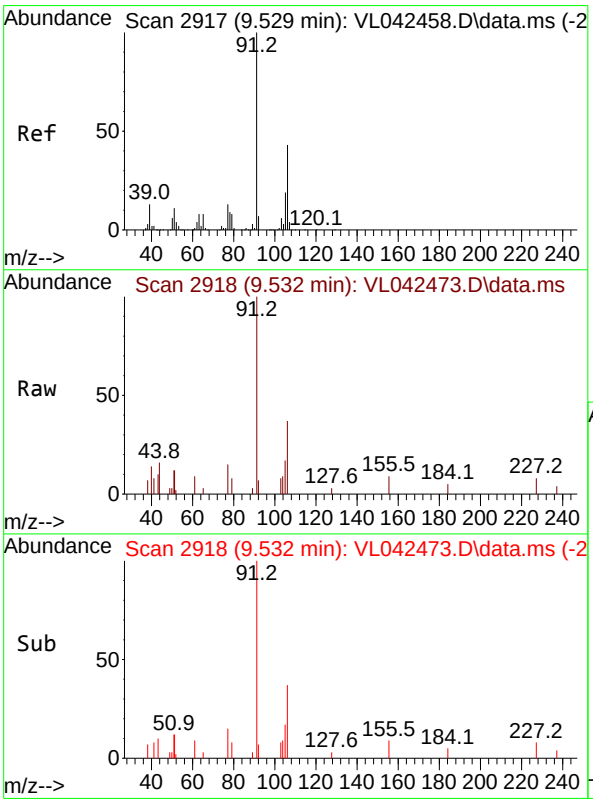
#58
Ethyl Benzene
Concen: 0.037 ppbv
RT: 9.539 min Scan# 2
Delta R.T. 0.185 min
Lab File: VL042473.D
Acq: 05 May 2025 11:22

Instrument :
MSVOA_L
ClientSampleId :
EBR-P03-SC-SS01-20250428DL

Tgt Ion: 91 Resp: 1146

Ion	Ratio	Lower	Upper
91	100		
106	29.3	21.9	32.9

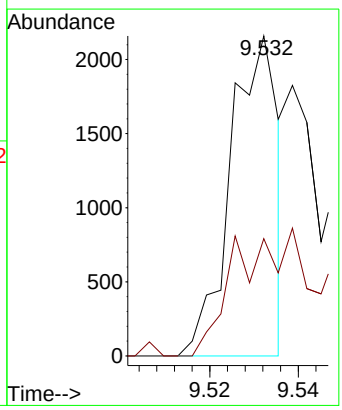


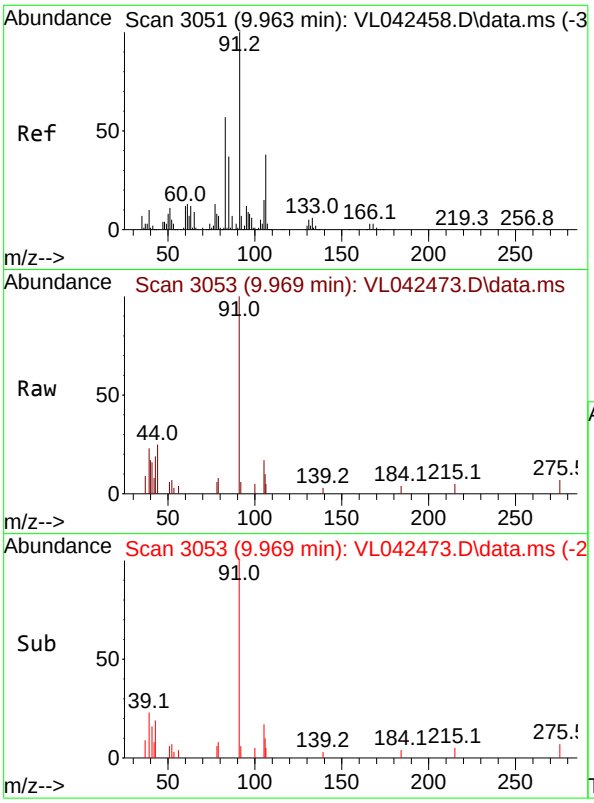


#59
m/p-Xylene
Concen: 0.062 ppbv
RT: 9.532 min Scan# 2918
Delta R.T. 0.003 min
Lab File: VL042473.D
Acq: 05 May 2025 11:22

Tgt Ion: 91 Resp: 1615

Ion	Ratio	Lower	Upper
91	100		
106	0.0	34.2	51.2#



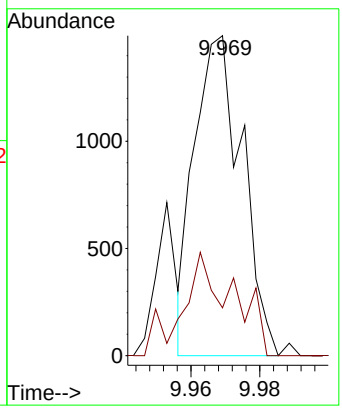


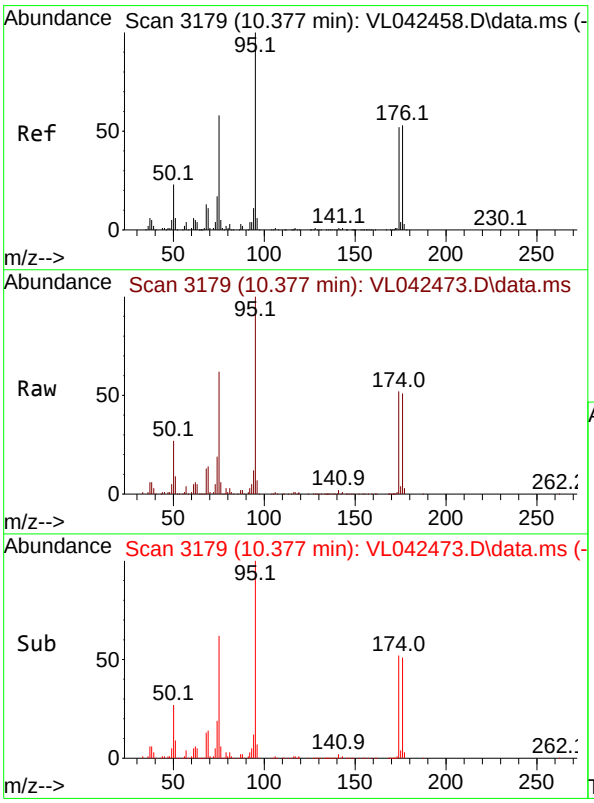
#60
o-Xylene
Concen: 0.055 ppbv
RT: 9.969 min Scan# 3
Delta R.T. 0.007 min
Lab File: VL042473.D
Acq: 05 May 2025 11:22

Instrument :
MSVOA_L
ClientSampleId :
EBR-P03-SC-SS01-20250428DL

Tgt Ion: 91 Resp: 1437

Ion	Ratio	Lower	Upper
91	100		
106	34.3	20.1	60.2

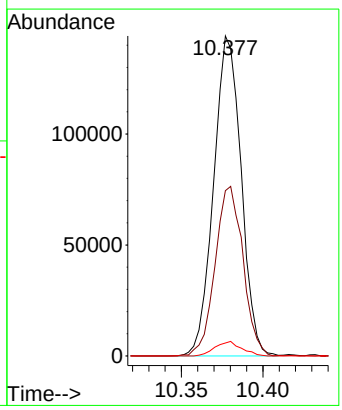




#68
1-Bromo-4-Fluorobenzene
Concen: 9.808 ppbv
RT: 10.377 min Scan# 3179
Delta R.T. 0.000 min
Lab File: VL042473.D
Acq: 05 May 2025 11:22

Tgt Ion: 95 Resp: 169008

Ion	Ratio	Lower	Upper
95	100		
174	53.8	42.7	64.1
175	4.4	3.6	5.4



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050525\
Data File : VL042474.D
Acq On : 05 May 2025 13:11
Operator : SY/MD
Sample : Q1927-03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
EBR-P04-SC-SS01-20250428

Quant Time: May 06 01:41:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri May 02 03:16:31 2025
Response via : Initial Calibration

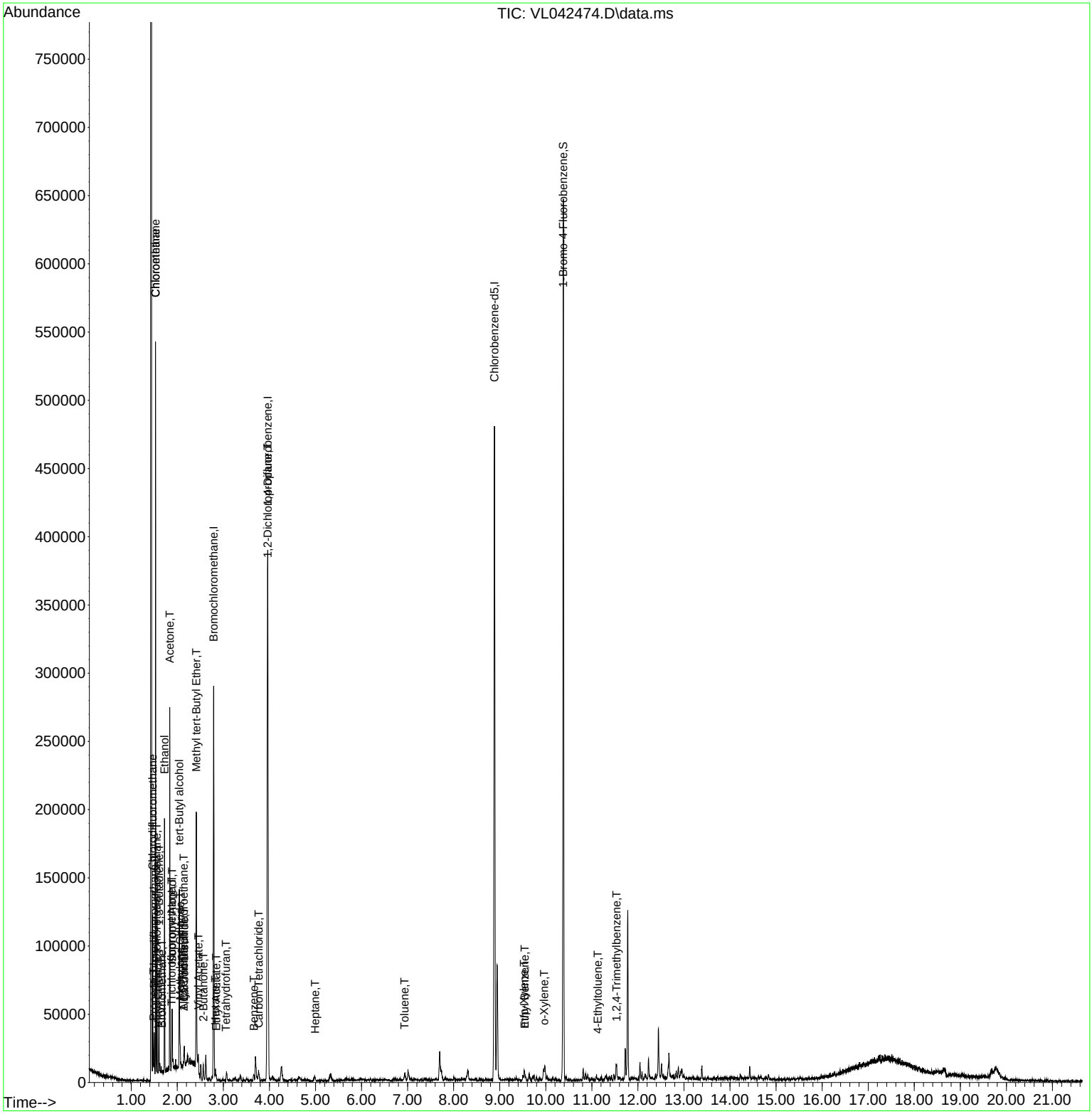
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.790	49	71873	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	203294	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	175917	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.380	95	158342	9.708	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 97.100%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	6716	0.565	ppbv	97
3) Chlorodifluoromethane	1.467	51	32555	2.589	ppbv #	63
4) Chloromethane	1.528	50	2840	0.571	ppbv #	61
5) Vinyl Chloride	1.583	62	215	0.043	ppbv #	68
6) Bromomethane	1.664	94	82	0.035	ppbv #	6
7) Chloroethane	1.528	64	10918	5.908	ppbv	91
8) Dichlorotetrafluoroethane	1.554	85	369	0.038	ppbv #	66
9) Propene	1.486	41	995	0.242	ppbv #	68
10) Heptane	4.991	43	388	0.036	ppbv #	1
11) Trichlorofluoromethane	1.878	101	3131	0.285	ppbv #	73
12) 1,1,2-Trichlorotrifluo...	2.140	101	657	0.075	ppbv #	77
13) Ethanol	1.722	45	61821	74.066	ppbv	99
15) Acetone	1.836	43	111511	8.499	ppbv	100
16) 1,3-Butadiene	1.602	39	8789	1.519	ppbv #	23
17) tert-Butyl alcohol	2.043	59	48508	4.196	ppbv	97
19) Isopropyl Alcohol	1.887	45	18121	2.495	ppbv #	1
20) Methylene Chloride	2.062	84	2382	0.604	ppbv #	86
21) Allyl Chloride	2.140	41	276	0.033	ppbv #	21
23) Vinyl Acetate	2.457	43	6146	0.491	ppbv #	64
25) Ethyl Acetate	2.845	43	714	0.034	ppbv #	65
26) Hexane	2.826	57	1409	0.154	ppbv #	62
27) Carbon Disulfide	2.153	76	7142	0.669	ppbv #	1
28) Methyl tert-Butyl Ether	2.415	73	657	0.119	ppbv #	1
34) 2-Butanone	2.567	43	7445	0.506	ppbv	97
35) Carbon Tetrachloride	3.768	117	667	0.036	ppbv #	42
36) Benzene	3.664	78	684	0.036	ppbv	94
39) 1,2-Dichloropropane	3.965	63	57339	7.984	ppbv #	21
41) Tetrahydrofuran	3.059	42	295	0.042	ppbv #	34
53) Toluene	6.936	91	1391	0.069	ppbv #	1
58) Ethyl Benzene	9.542	91	1725	0.059	ppbv	97
59) m/p-Xylene	9.526	91	1473	0.060	ppbv #	1
60) o-Xylene	9.966	91	1706	0.069	ppbv	85
72) 4-Ethyltoluene	11.128	105	923	0.032	ppbv #	61
74) 1,2,4-Trimethylbenzene	11.536	105	2102	0.068	ppbv #	68

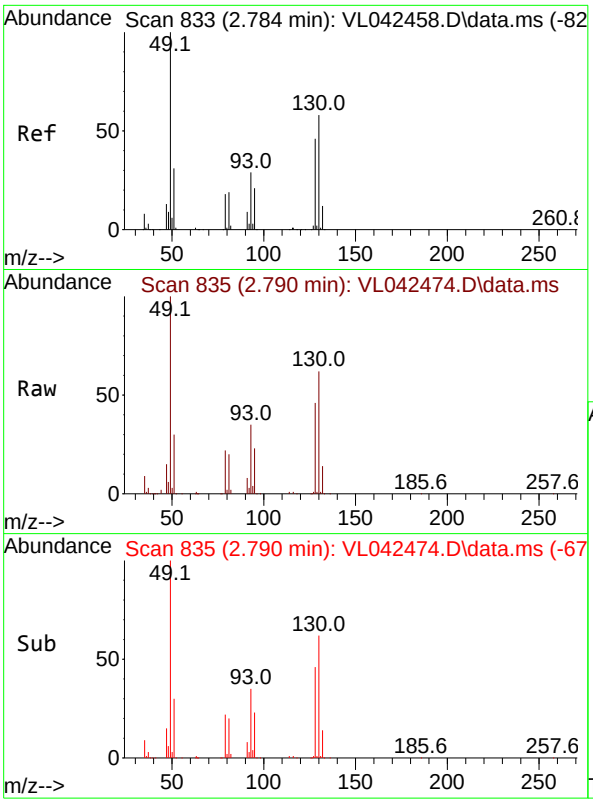
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050525\
Data File : VL042474.D
Acq On : 05 May 2025 13:11
Operator : SY/MD
Sample : Q1927-03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
EBR-P04-SC-SS01-20250428

Quant Time: May 06 01:41:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri May 02 03:16:31 2025
Response via : Initial Calibration



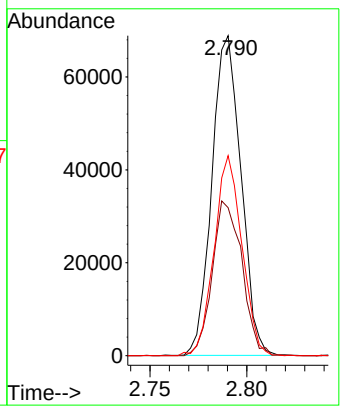


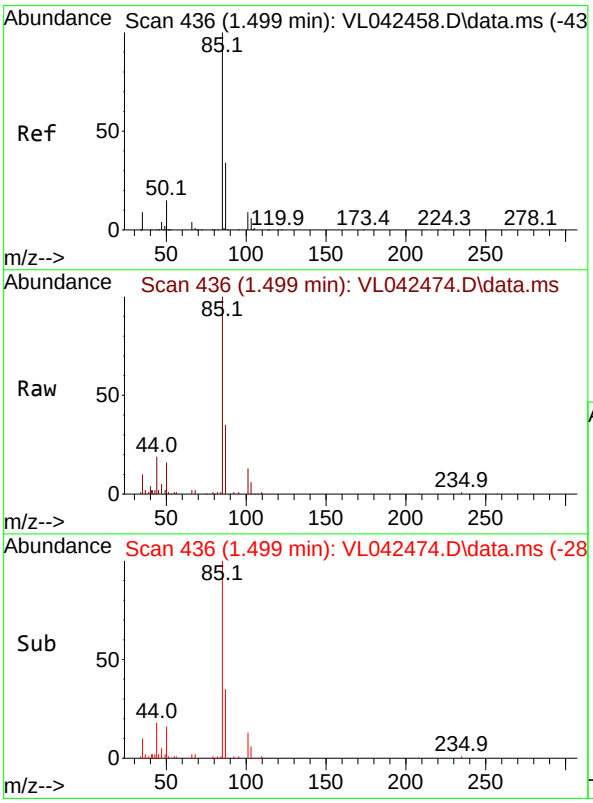
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 8
Delta R.T. 0.006 min
Lab File: VL042474.D
Acq: 05 May 2025 13:11

Instrument :
MSVOA_L
ClientSampleId :
EBR-P04-SC-SS01-20250428

Tgt Ion: 49 Resp: 71873

Ion	Ratio	Lower	Upper
49	100		
128	49.4	23.3	69.9
130	59.8	29.5	88.6

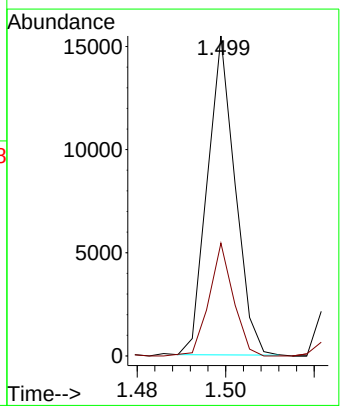


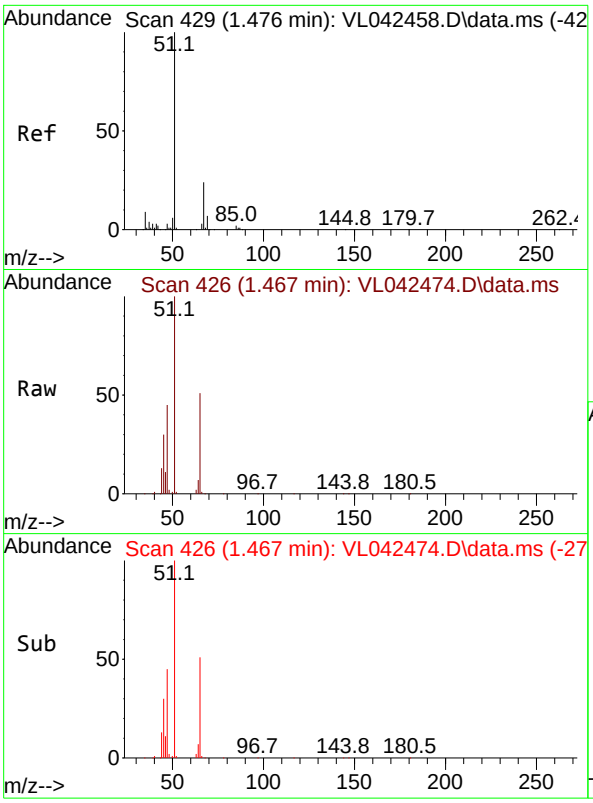


#2
Dichlorodifluoromethane
Concen: 0.565 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.000 min
Lab File: VL042474.D
Acq: 05 May 2025 13:11

Tgt Ion: 85 Resp: 6716

Ion	Ratio	Lower	Upper
85	100		
87	35.4	26.9	40.3



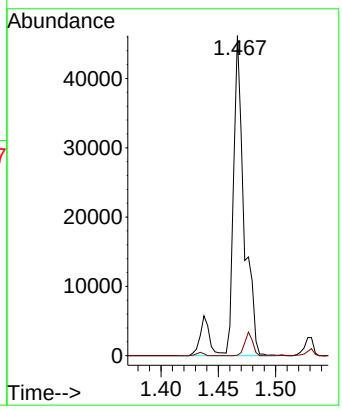


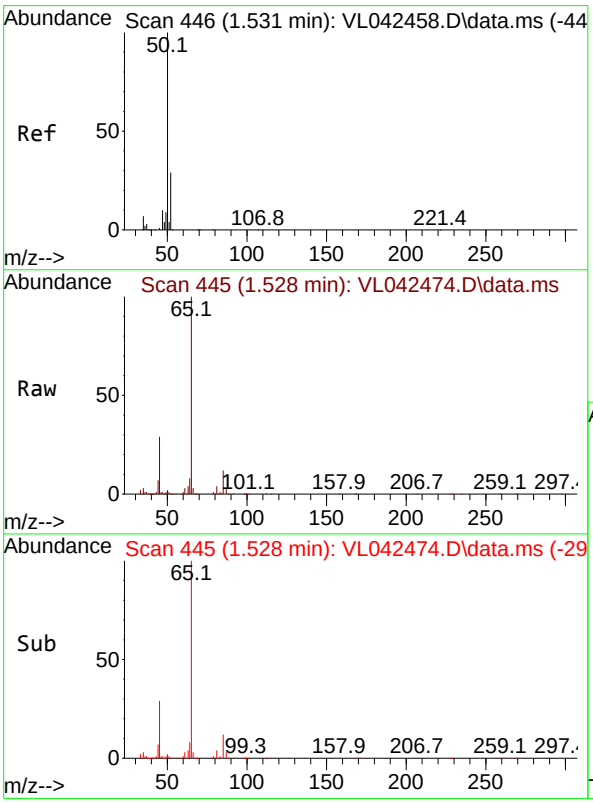
#3
Chlorodifluoromethane
Concen: 2.589 ppbv
RT: 1.467 min Scan# 4
Delta R.T. -0.010 min
Lab File: VL042474.D
Acq: 05 May 2025 13:11

Instrument :
MSVOA_L
ClientSampleId :
EBR-P04-SC-SS01-20250428

Tgt Ion: 51 Resp: 32555

Ion	Ratio	Lower	Upper
51	100		
67	5.2	18.4	27.6#

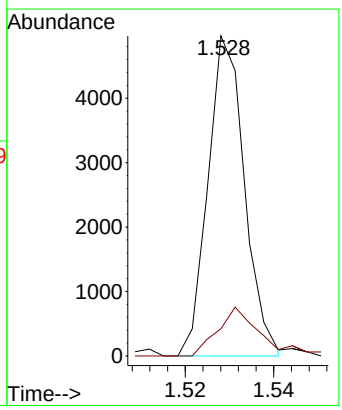


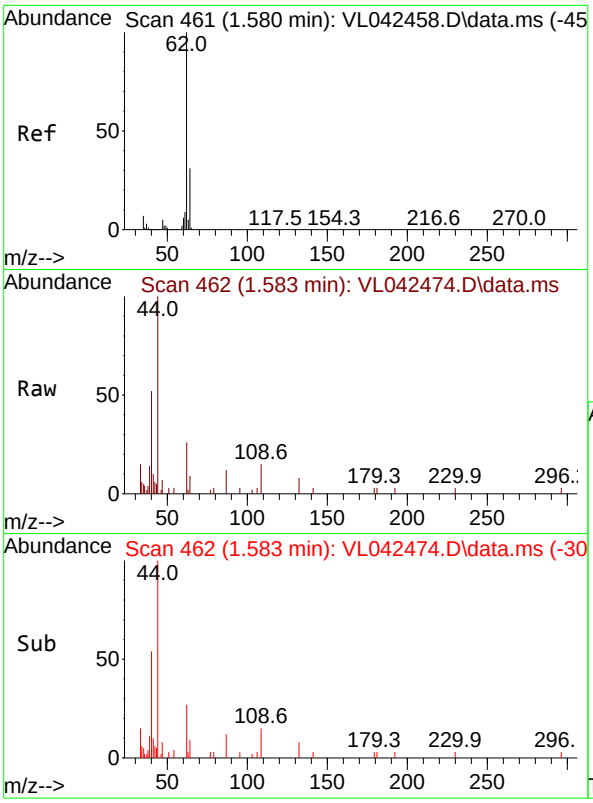


#4
Chloromethane
Concen: 0.571 ppbv
RT: 1.528 min Scan# 445
Delta R.T. -0.003 min
Lab File: VL042474.D
Acq: 05 May 2025 13:11

Tgt Ion: 50 Resp: 2840

Ion	Ratio	Lower	Upper
50	100		
52	8.5	23.5	35.3#



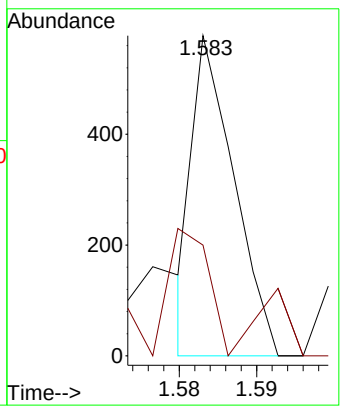


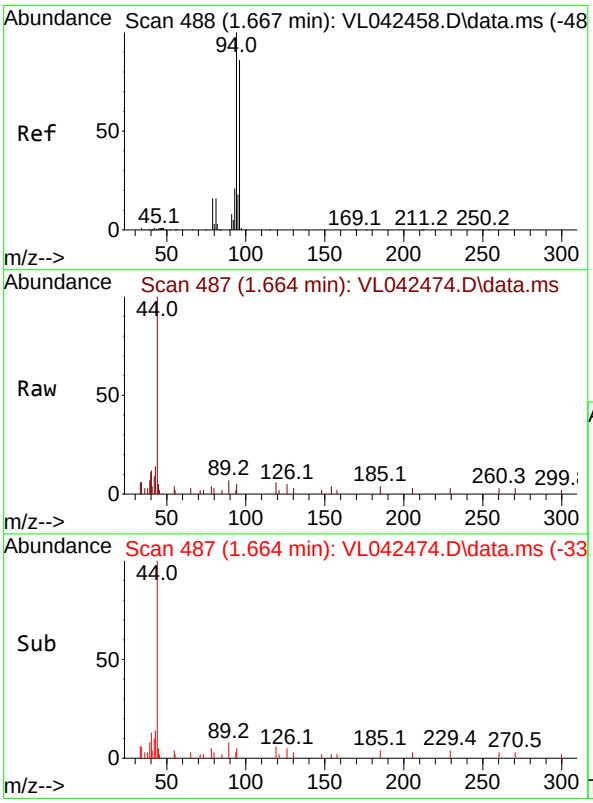
#5
Vinyl Chloride
Concen: 0.043 ppbv
RT: 1.583 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL042474.D
Acq: 05 May 2025 13:11

Instrument :
MSVOA_L
ClientSampleId :
EBR-P04-SC-SS01-20250428

Tgt Ion: 62 Resp: 215

Ion	Ratio	Lower	Upper
62	100		
64	13.5	24.9	37.3#

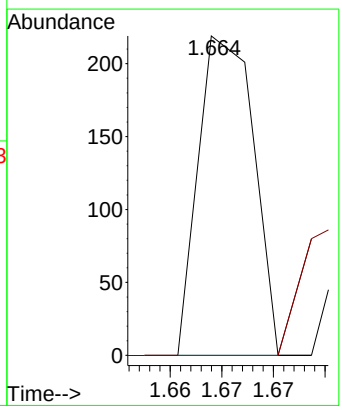


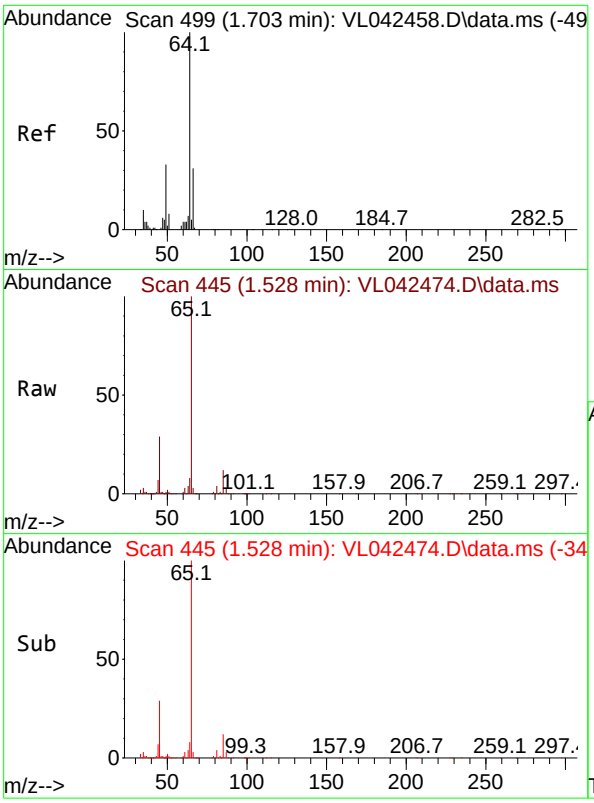


#6
Bromomethane
Concen: 0.035 ppbv
RT: 1.664 min Scan# 487
Delta R.T. -0.003 min
Lab File: VL042474.D
Acq: 05 May 2025 13:11

Tgt Ion: 94 Resp: 82

Ion	Ratio	Lower	Upper
94	100		
96	0.0	68.8	103.2#



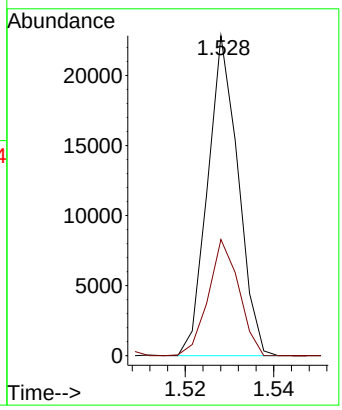


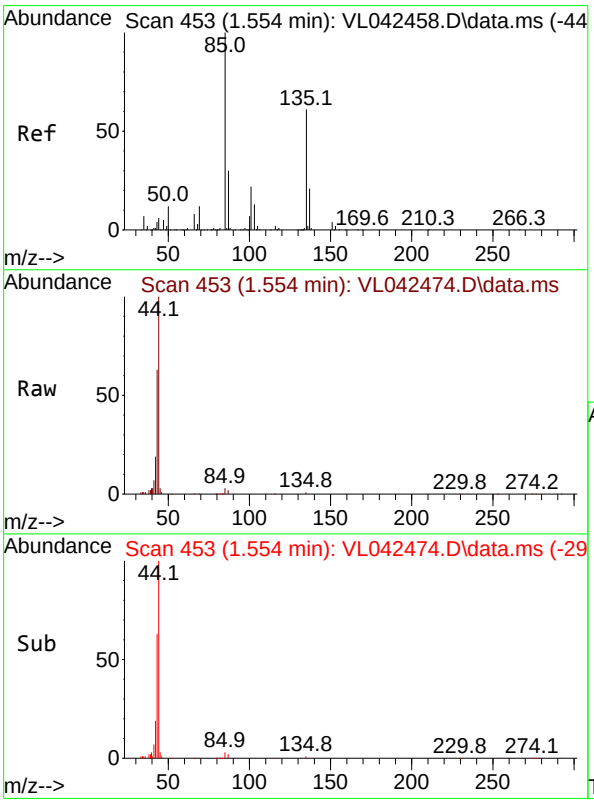
#7
Chloroethane
Concen: 5.908 ppbv
RT: 1.528 min Scan# 44
Delta R.T. -0.175 min
Lab File: VL042474.D
Acq: 05 May 2025 13:11

Instrument :
MSVOA_L
ClientSampleId :
EBR-P04-SC-SS01-20250428

Tgt Ion: 64 Resp: 10918

Ion	Ratio	Lower	Upper
64	100		
66	36.3	25.0	37.4

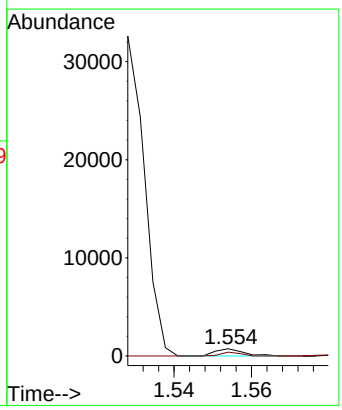


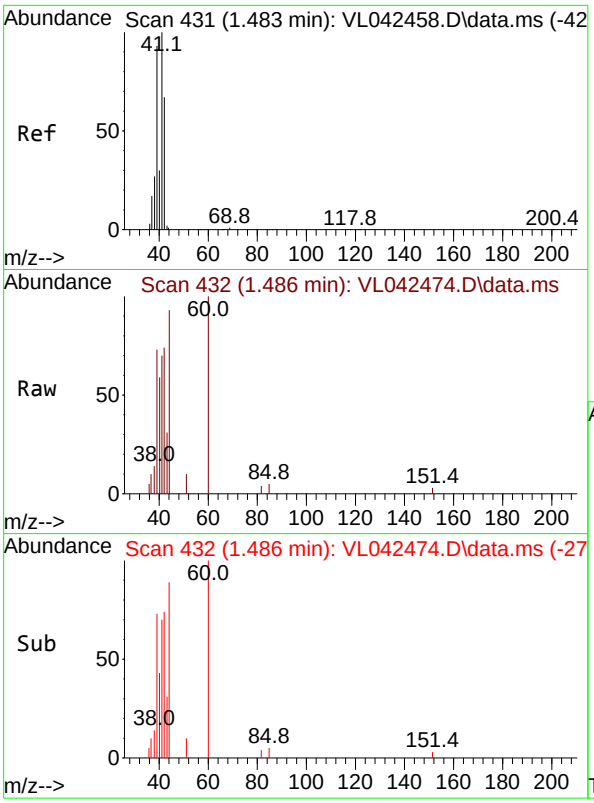


#8
Dichlorotetrafluoroethane
Concen: 0.038 ppbv
RT: 1.554 min Scan# 453
Delta R.T. 0.000 min
Lab File: VL042474.D
Acq: 05 May 2025 13:11

Tgt Ion: 85 Resp: 369

Ion	Ratio	Lower	Upper
85	100		
135	36.0	49.8	74.8#



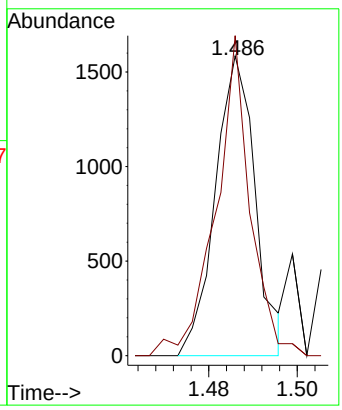


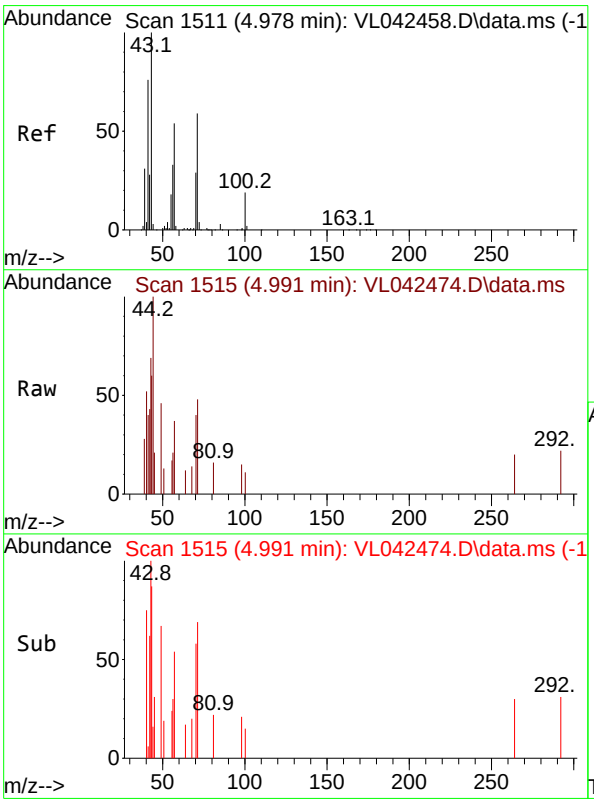
#9
Propene
Concen: 0.242 ppbv
RT: 1.486 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL042474.D
Acq: 05 May 2025 13:11

Instrument :
MSVOA_L
ClientSampleId :
EBR-P04-SC-SS01-20250428

Tgt Ion: 41 Resp: 995

Ion	Ratio	Lower	Upper
41	100		
42	94.0	54.3	81.5#

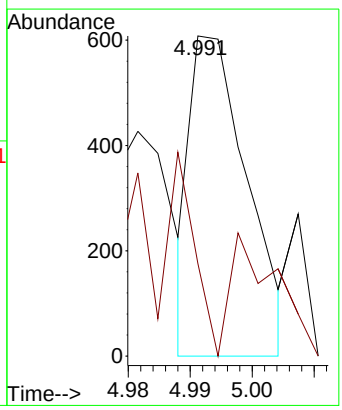


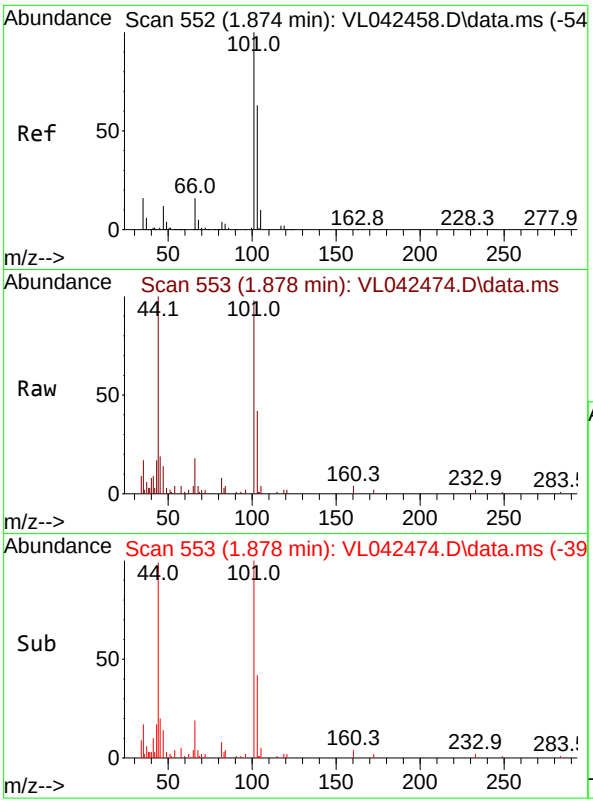


#10
Heptane
Concen: 0.036 ppbv
RT: 4.991 min Scan# 1515
Delta R.T. 0.013 min
Lab File: VL042474.D
Acq: 05 May 2025 13:11

Tgt Ion: 43 Resp: 388

Ion	Ratio	Lower	Upper
43	100		
57	133.5	41.8	62.8#



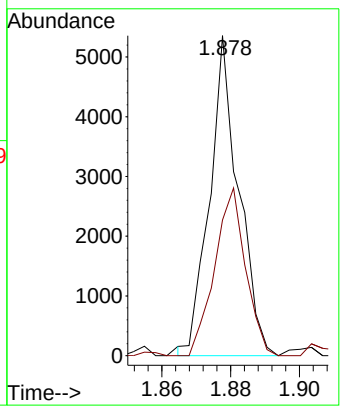


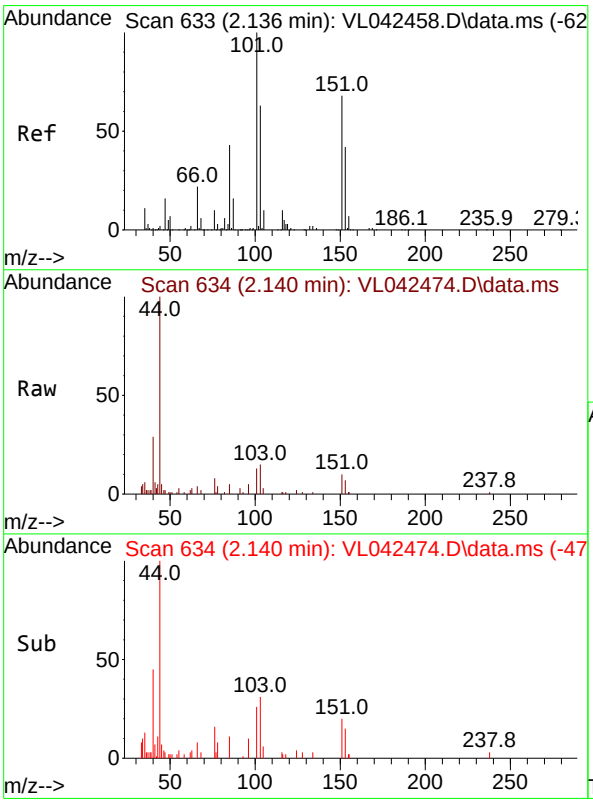
#11
Trichlorofluoromethane
Concen: 0.285 ppbv
RT: 1.878 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042474.D
Acq: 05 May 2025 13:11

Instrument :
MSVOA_L
ClientSampleId :
EBR-P04-SC-SS01-20250428

Tgt Ion:101 Resp: 3131

Ion	Ratio	Lower	Upper
101	100		
103	42.4	50.6	76.0#

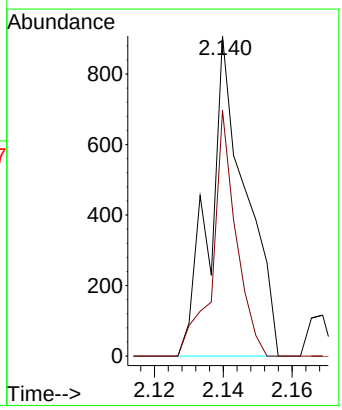


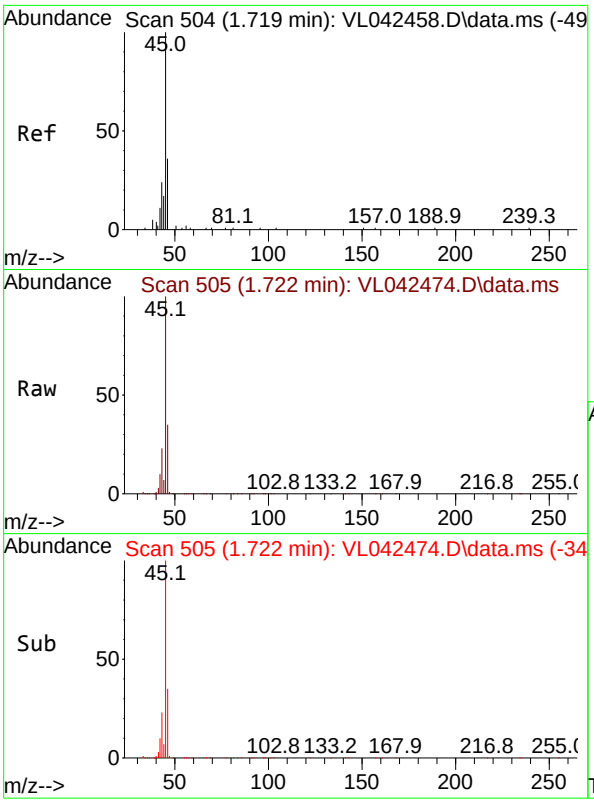


#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.075 ppbv
RT: 2.140 min Scan# 634
Delta R.T. 0.003 min
Lab File: VL042474.D
Acq: 05 May 2025 13:11

Tgt Ion:101 Resp: 657

Ion	Ratio	Lower	Upper
101	100		
151	50.1	54.6	82.0#



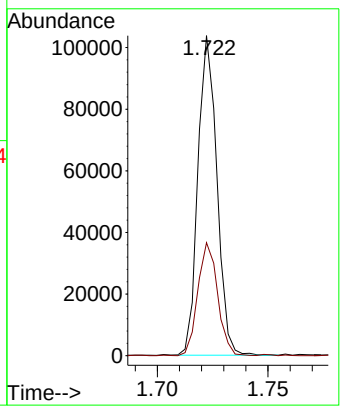


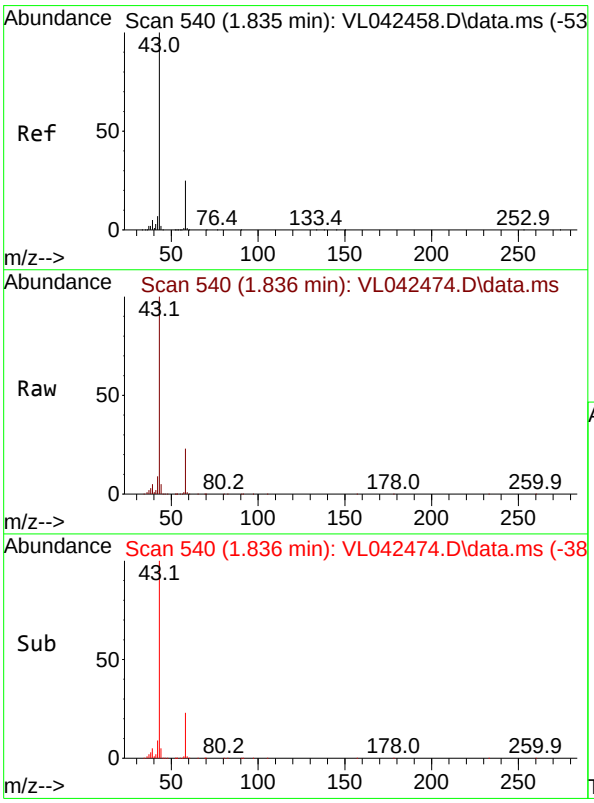
#13
Ethanol
Concen: 74.066 ppbv
RT: 1.722 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042474.D
Acq: 05 May 2025 13:11

Instrument :
MSVOA_L
ClientSampleId :
EBR-P04-SC-SS01-20250428

Tgt Ion: 45 Resp: 61821

Ion	Ratio	Lower	Upper
45	100		
46	37.3	15.3	61.1

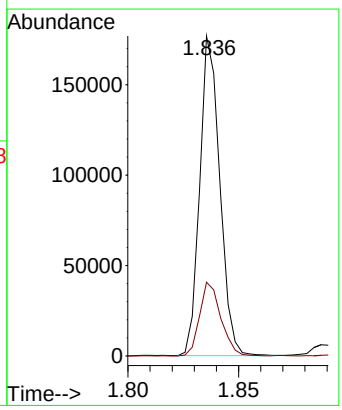


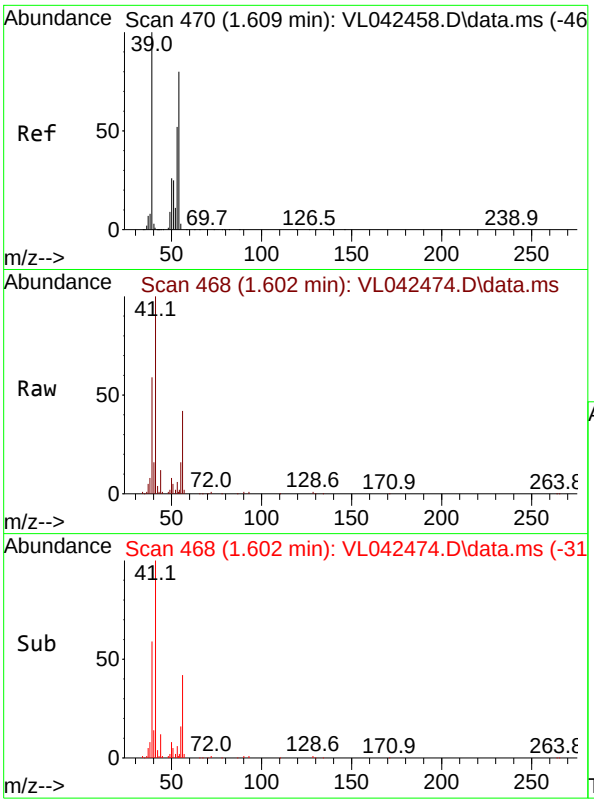


#15
Acetone
Concen: 8.499 ppbv
RT: 1.836 min Scan# 540
Delta R.T. 0.000 min
Lab File: VL042474.D
Acq: 05 May 2025 13:11

Tgt Ion: 43 Resp: 111511

Ion	Ratio	Lower	Upper
43	100		
58	24.6	19.8	29.8



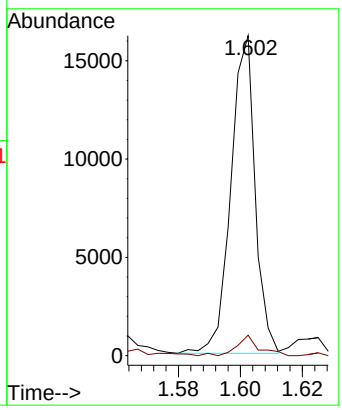


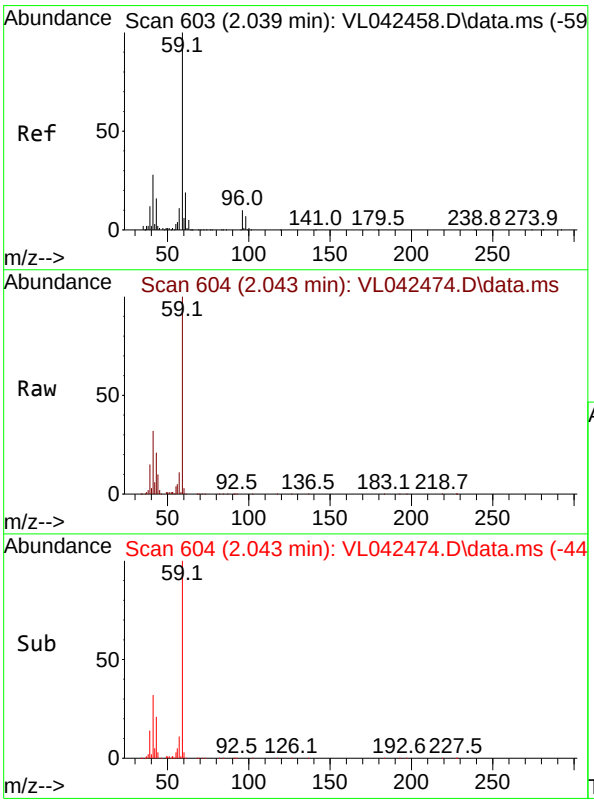
#16
1,3-Butadiene
Concen: 1.519 ppbv
RT: 1.602 min Scan# 4
Delta R.T. -0.006 min
Lab File: VL042474.D
Acq: 05 May 2025 13:11

Instrument :
MSVOA_L
ClientSampleId :
EBR-P04-SC-SS01-20250428

Tgt Ion: 39 Resp: 8789

Ion	Ratio	Lower	Upper
39	100		
54	6.3	55.2	82.8#

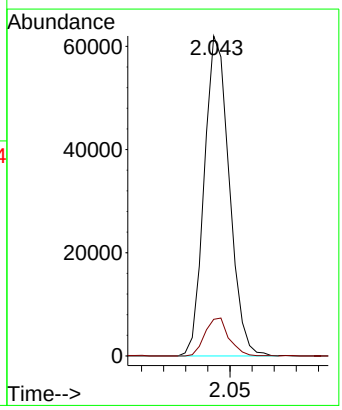


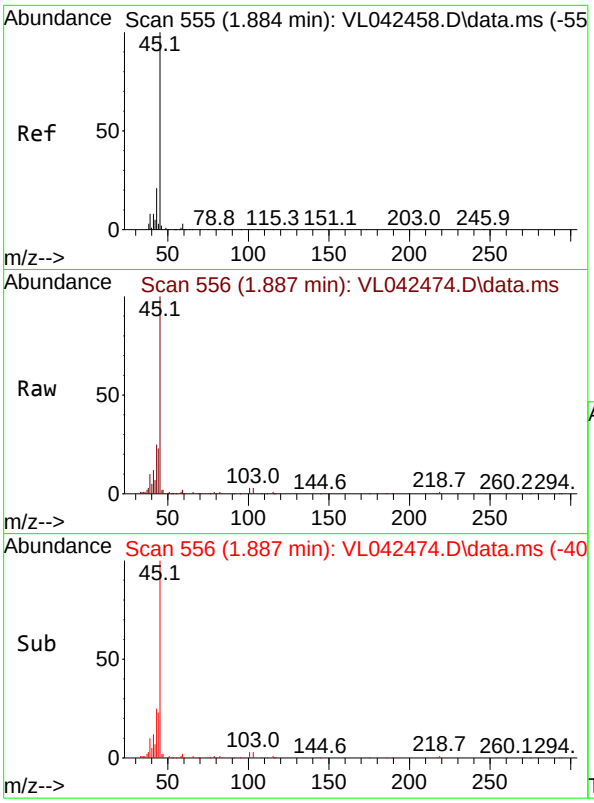


#17
tert-Butyl alcohol
Concen: 4.196 ppbv
RT: 2.043 min Scan# 604
Delta R.T. 0.003 min
Lab File: VL042474.D
Acq: 05 May 2025 13:11

Tgt Ion: 59 Resp: 48508

Ion	Ratio	Lower	Upper
59	100		
57	11.6	8.3	12.5



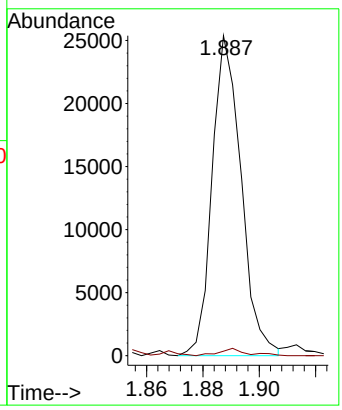


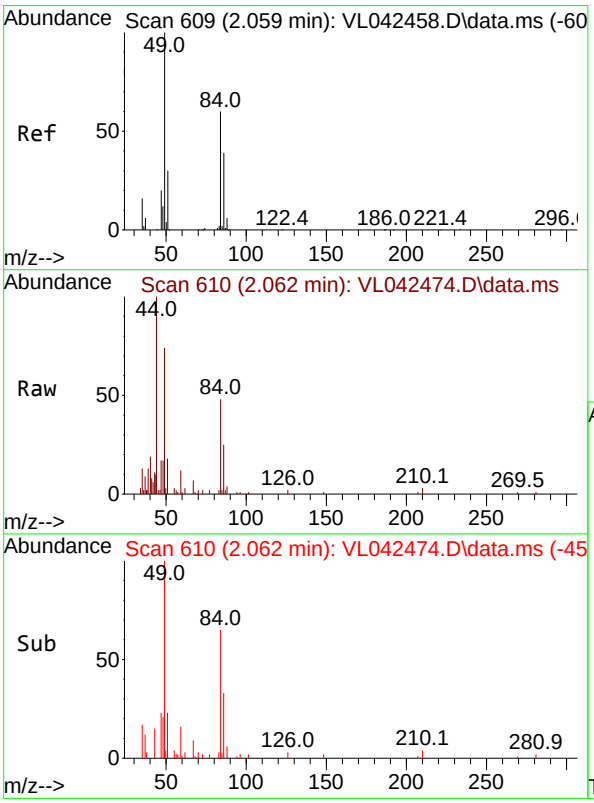
#19
Isopropyl Alcohol
Concen: 2.495 ppbv
RT: 1.887 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042474.D
Acq: 05 May 2025 13:11

Instrument :
MSVOA_L
ClientSampleId :
EBR-P04-SC-SS01-20250428

Tgt Ion: 45 Resp: 18121

Ion	Ratio	Lower	Upper
45	100		
58	151.4	1.6	2.4#

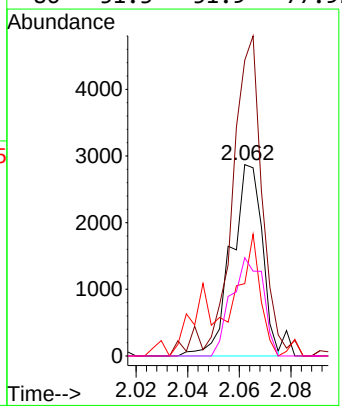


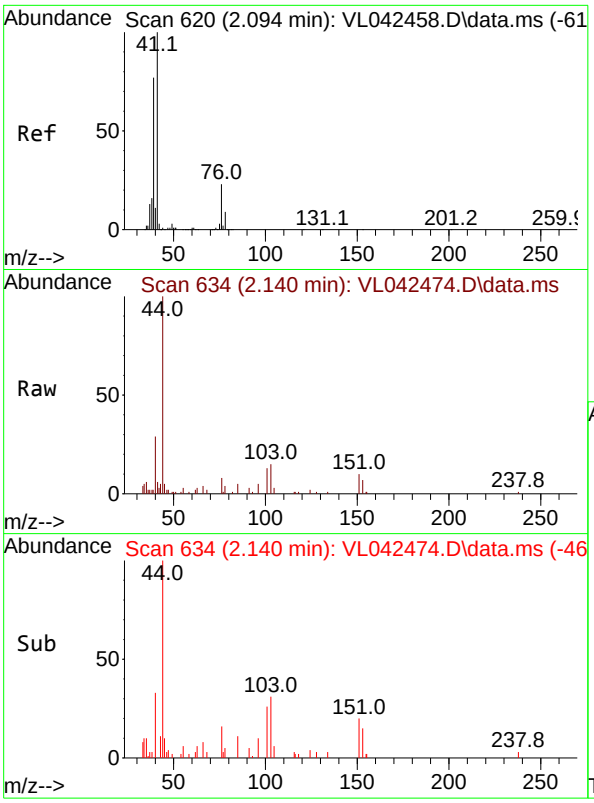


#20
Methylene Chloride
Concen: 0.604 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.003 min
Lab File: VL042474.D
Acq: 05 May 2025 13:11

Tgt Ion: 84 Resp: 2382

Ion	Ratio	Lower	Upper
84	100		
49	152.9	133.9	200.9
51	37.7	41.0	61.6#
86	51.3	51.9	77.9#



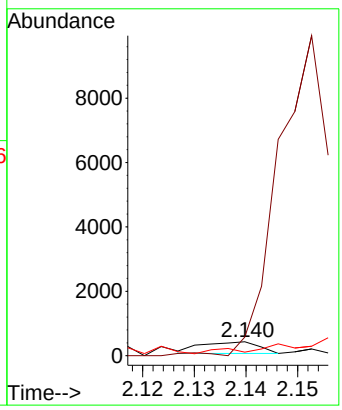


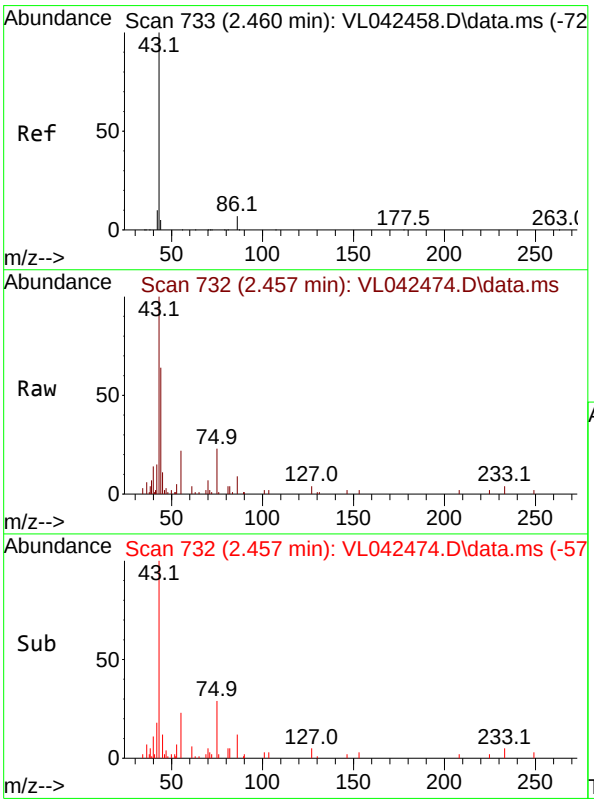
#21
Allyl Chloride
Concen: 0.033 ppbv
RT: 2.140 min Scan# 6
Delta R.T. 0.046 min
Lab File: VL042474.D
Acq: 05 May 2025 13:11

Instrument :
MSVOA_L
ClientSampleId :
EBR-P04-SC-SS01-20250428

Tgt Ion: 41 Resp: 276

Ion	Ratio	Lower	Upper
41	100		
76	0.0	19.6	29.4#
39	0.0	61.0	91.4#

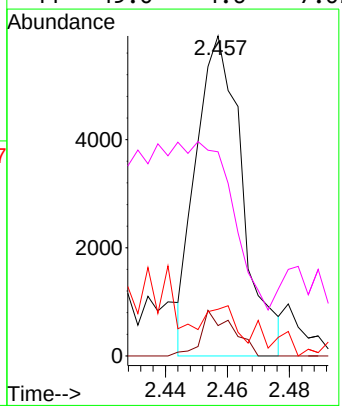


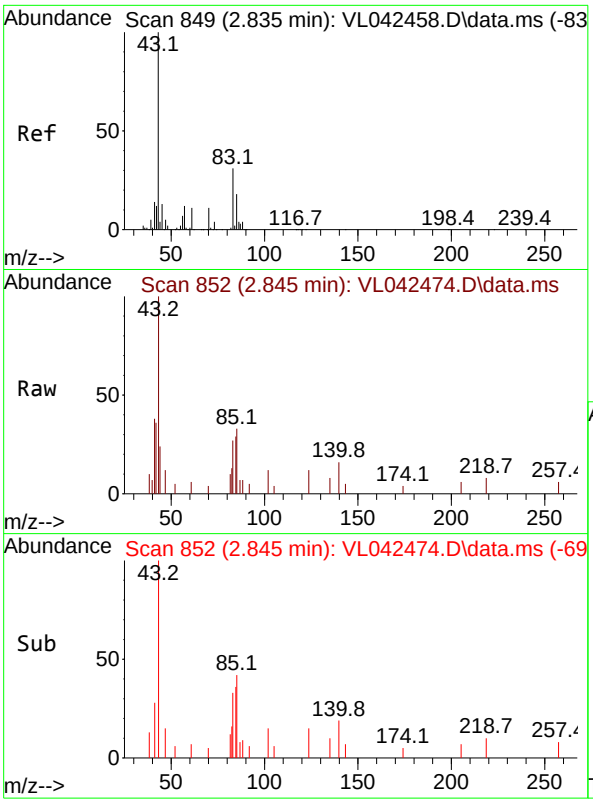


#23
Vinyl Acetate
Concen: 0.491 ppbv
RT: 2.457 min Scan# 732
Delta R.T. -0.003 min
Lab File: VL042474.D
Acq: 05 May 2025 13:11

Tgt Ion: 43 Resp: 6146

Ion	Ratio	Lower	Upper
43	100		
86	10.8	5.5	8.3#
42	10.0	8.3	12.5
44	49.0	4.6	7.0#



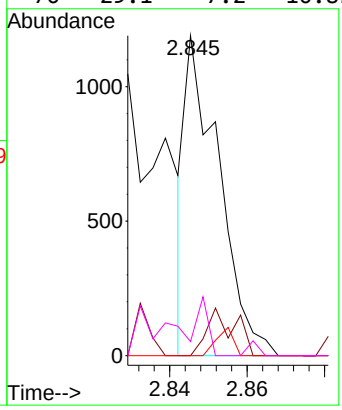


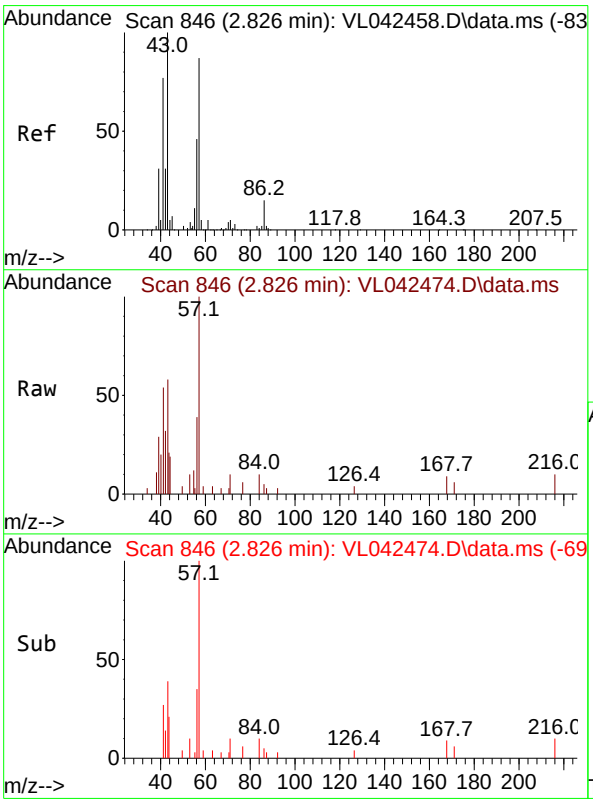
#25
Ethyl Acetate
Concen: 0.034 ppbv
RT: 2.845 min Scan# 8
Delta R.T. 0.010 min
Lab File: VL042474.D
Acq: 05 May 2025 13:11

Instrument :
MSVOA_L
ClientSampleId :
EBR-P04-SC-SS01-20250428

Tgt Ion: 43 Resp: 714

Ion	Ratio	Lower	Upper
43	100		
45	0.0	7.8	11.6#
61	0.0	7.2	10.8#
70	29.1	7.2	10.8#

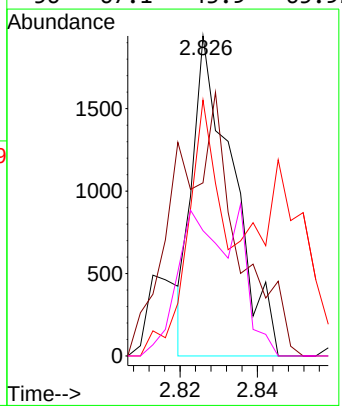


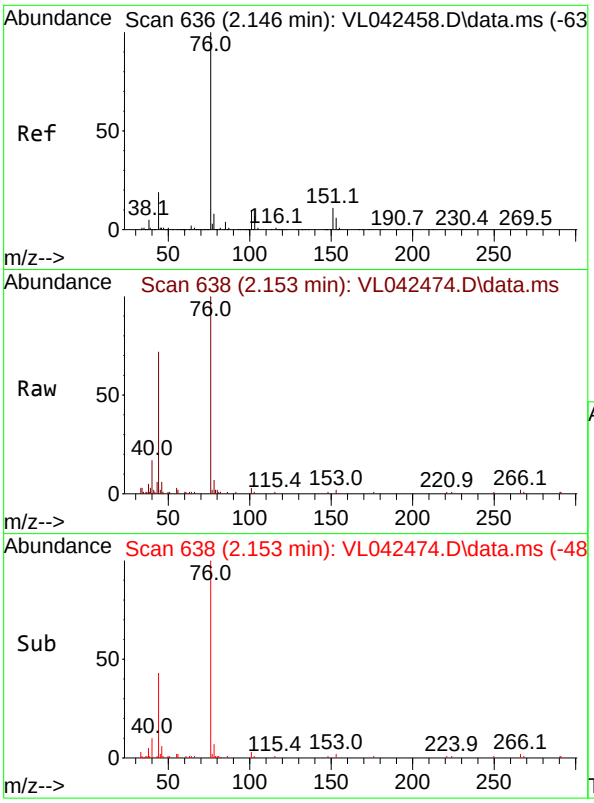


#26
Hexane
Concen: 0.154 ppbv
RT: 2.826 min Scan# 846
Delta R.T. 0.000 min
Lab File: VL042474.D
Acq: 05 May 2025 13:11

Tgt Ion: 57 Resp: 1409

Ion	Ratio	Lower	Upper
57	100		
41	125.3	77.8	116.8#
43	155.1	187.0	280.6#
56	67.1	43.9	65.9#



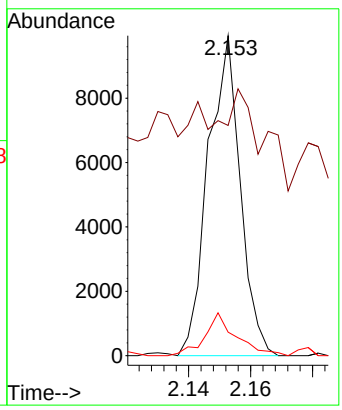


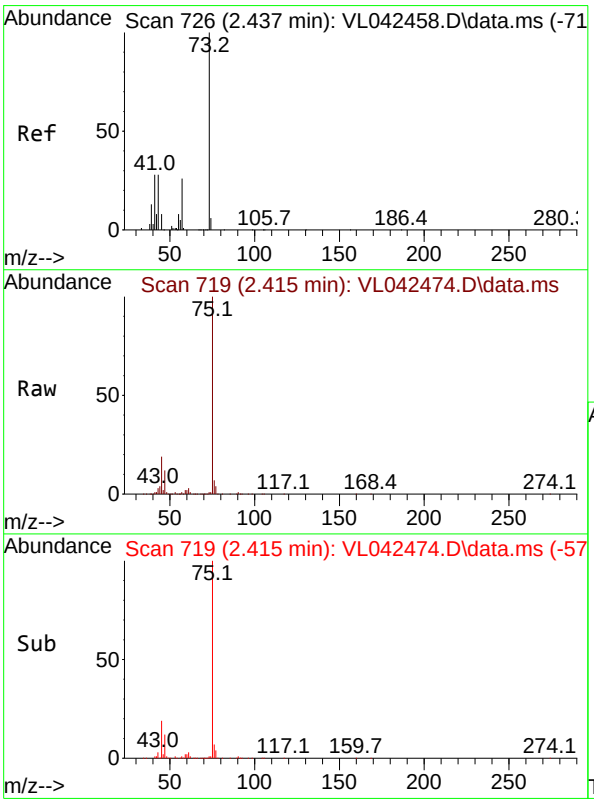
#27
Carbon Disulfide
Concen: 0.669 ppbv
RT: 2.153 min Scan# 6
Delta R.T. 0.007 min
Lab File: VL042474.D
Acq: 05 May 2025 13:11

Instrument :
MSVOA_L
ClientSampleId :
EBR-P04-SC-SS01-20250428

Tgt Ion: 76 Resp: 7142

Ion	Ratio	Lower	Upper
76	100		
44	296.2	21.0	31.6#
78	14.2	8.6	13.0#

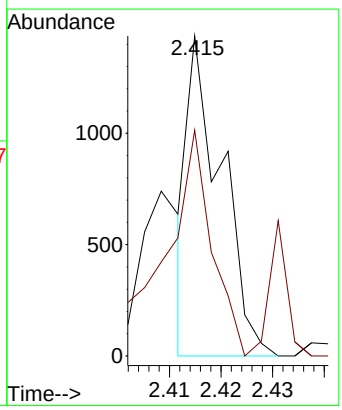


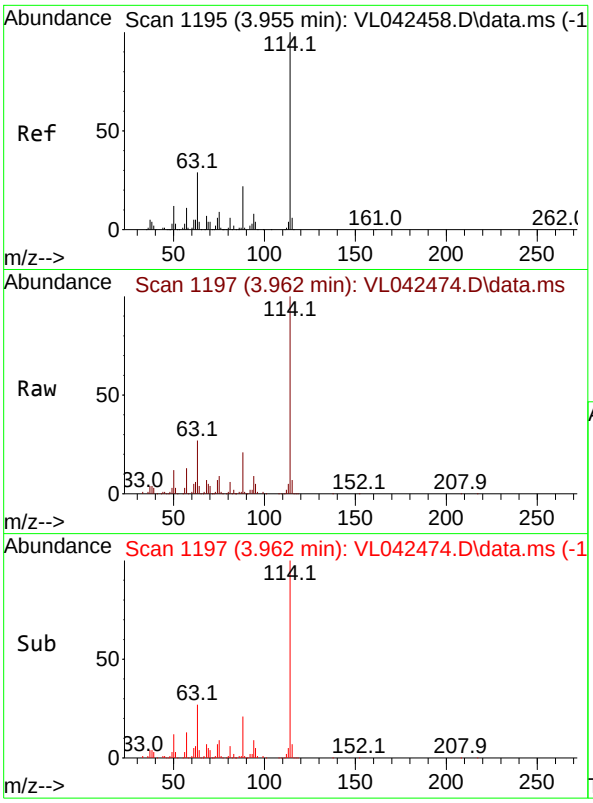


#28
Methyl tert-Butyl Ether
Concen: 0.119 ppbv
RT: 2.415 min Scan# 719
Delta R.T. -0.022 min
Lab File: VL042474.D
Acq: 05 May 2025 13:11

Tgt Ion: 73 Resp: 657

Ion	Ratio	Lower	Upper
73	100		
57	119.8	19.9	29.9#



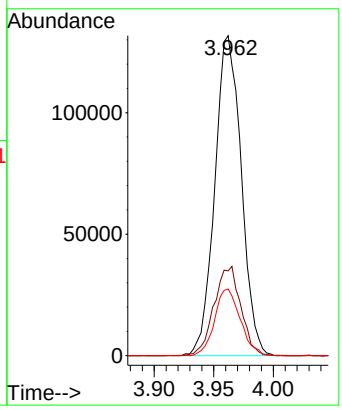


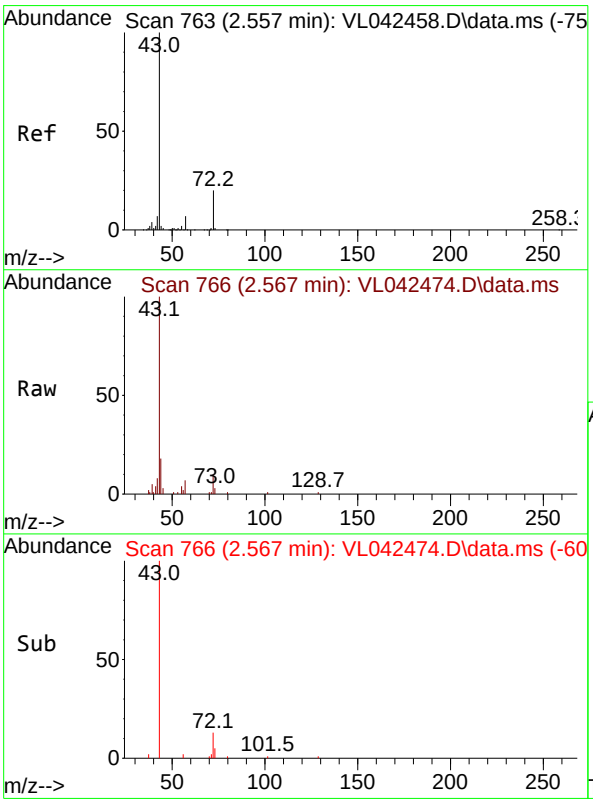
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.962 min Scan# 11
Delta R.T. 0.007 min
Lab File: VL042474.D
Acq: 05 May 2025 13:11

Instrument :
MSVOA_L
ClientSampleId :
EBR-P04-SC-SS01-20250428

Tgt Ion:114 Resp: 203294

Ion	Ratio	Lower	Upper
114	100		
63	28.2	23.1	34.7
88	20.3	16.1	24.1

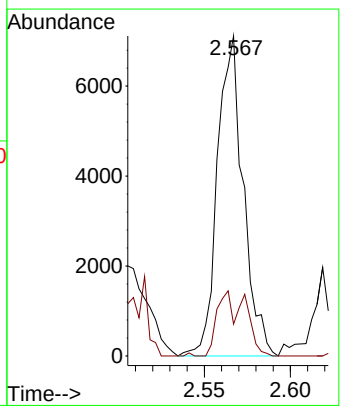


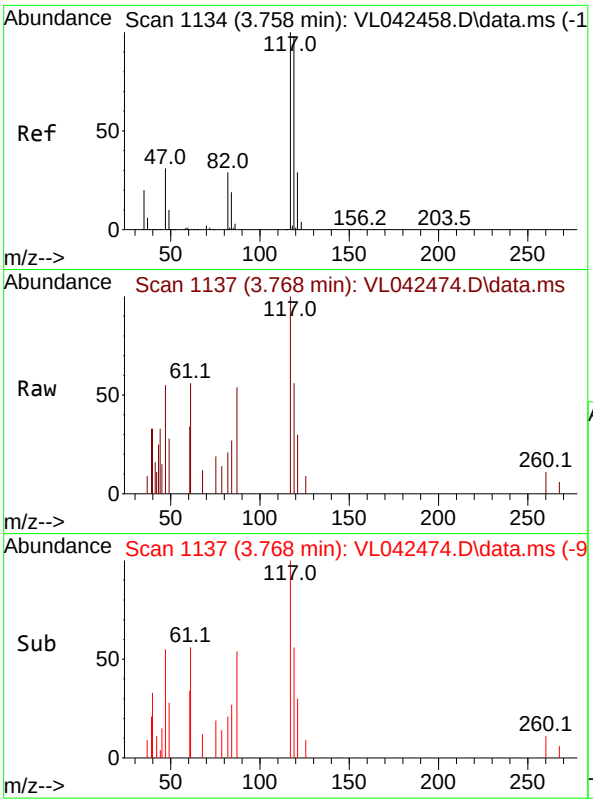


#34
2-Butanone
Concen: 0.506 ppbv
RT: 2.567 min Scan# 766
Delta R.T. 0.010 min
Lab File: VL042474.D
Acq: 05 May 2025 13:11

Tgt Ion: 43 Resp: 7445

Ion	Ratio	Lower	Upper
43	100		
72	22.1	16.7	25.1



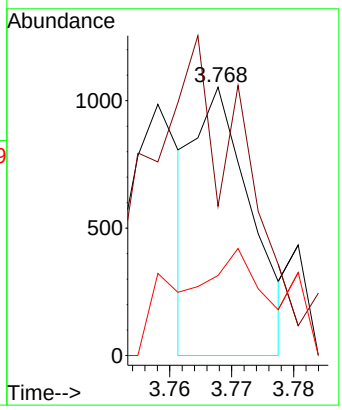


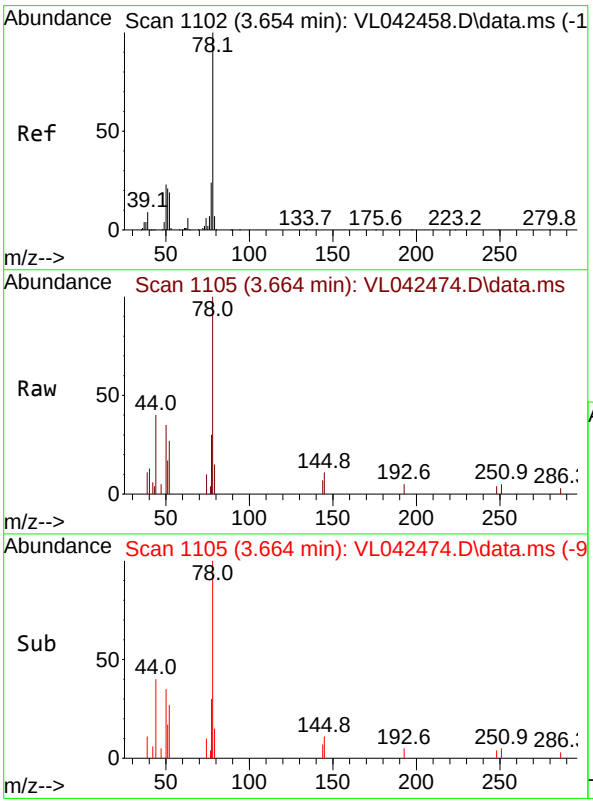
#35
Carbon Tetrachloride
Concen: 0.036 ppbv
RT: 3.768 min Scan# 11
Delta R.T. 0.010 min
Lab File: VL042474.D
Acq: 05 May 2025 13:11

Instrument :
MSVOA_L
ClientSampleId :
EBR-P04-SC-SS01-20250428

Tgt Ion:117 Resp: 667

Ion	Ratio	Lower	Upper
117	100		
119	29.9	78.1	117.1#
121	17.6	23.0	34.6#

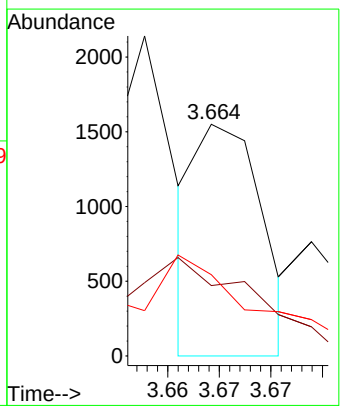


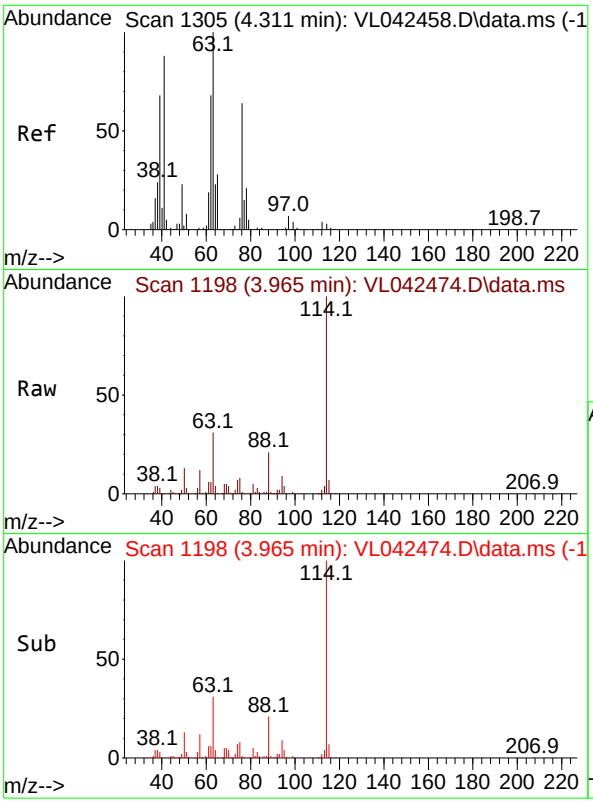


#36
Benzene
Concen: 0.036 ppbv
RT: 3.664 min Scan# 1105
Delta R.T. 0.010 min
Lab File: VL042474.D
Acq: 05 May 2025 13:11

Tgt Ion: 78 Resp: 684

Ion	Ratio	Lower	Upper
78	100		
77	18.9	18.9	28.3
50	24.2	18.4	27.6



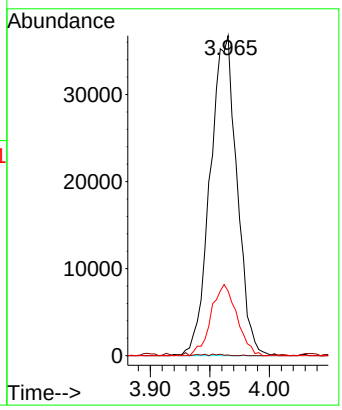


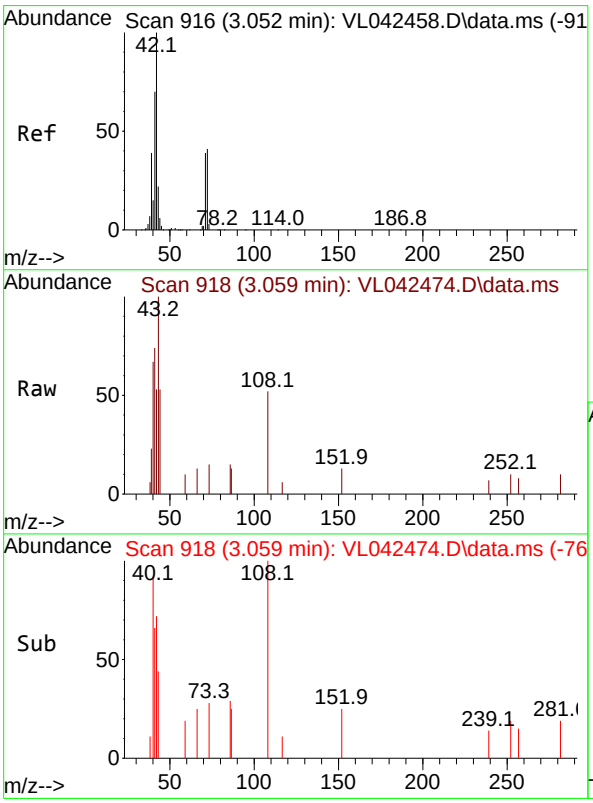
#39
1,2-Dichloropropane
Concen: 7.984 ppbv
RT: 3.965 min Scan# 11
Delta R.T. -0.346 min
Lab File: VL042474.D
Acq: 05 May 2025 13:11

Instrument :
MSVOA_L
ClientSampleId :
EBR-P04-SC-SS01-20250428

Tgt Ion: 63 Resp: 57339

Ion	Ratio	Lower	Upper
63	100		
41	0.0	69.8	104.6#
62	20.2	54.3	81.5#

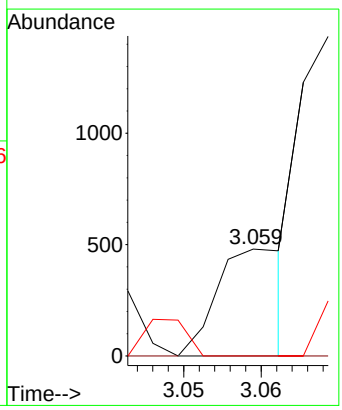


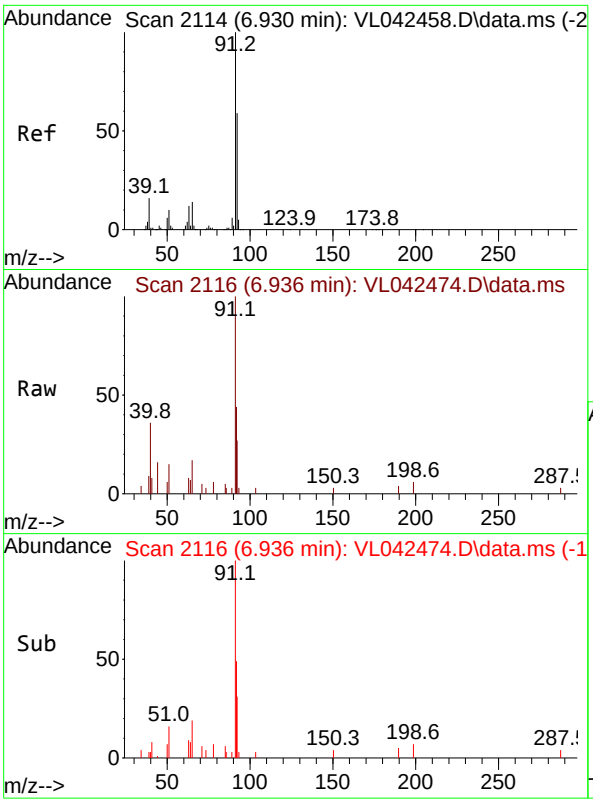


#41
Tetrahydrofuran
Concen: 0.042 ppbv
RT: 3.059 min Scan# 918
Delta R.T. 0.007 min
Lab File: VL042474.D
Acq: 05 May 2025 13:11

Tgt Ion: 42 Resp: 295

Ion	Ratio	Lower	Upper
42	100		
72	0.0	33.5	50.3#
71	0.0	32.6	49.0#



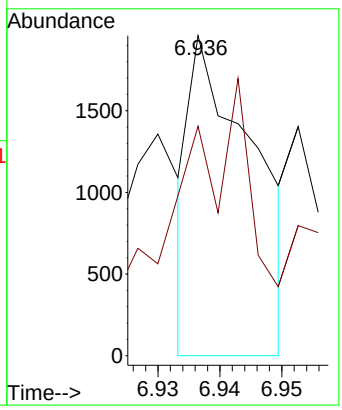


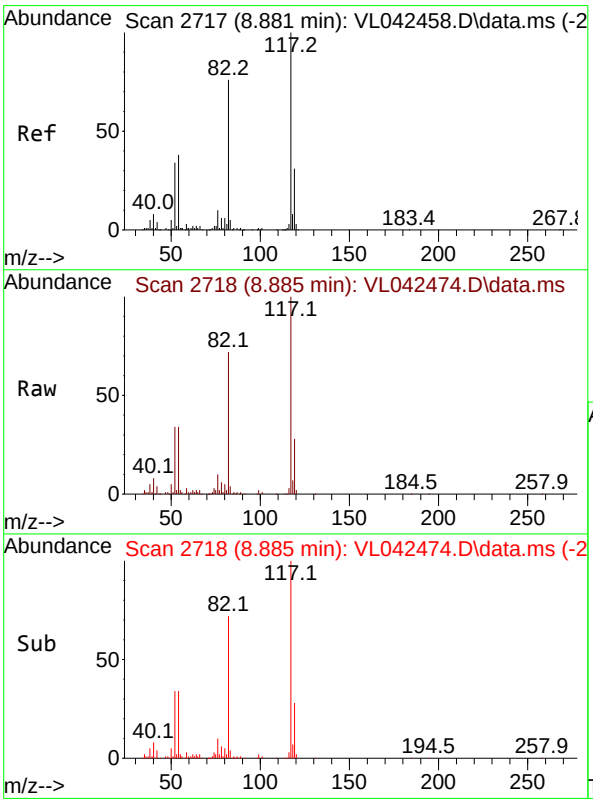
#53
Toluene
Concen: 0.069 ppbv
RT: 6.936 min Scan# 21
Delta R.T. 0.007 min
Lab File: VL042474.D
Acq: 05 May 2025 13:11

Instrument :
MSVOA_L
ClientSampleId :
EBR-P04-SC-SS01-20250428

Tgt Ion: 91 Resp: 1391

Ion	Ratio	Lower	Upper
91	100		
92	160.2	47.9	71.9#

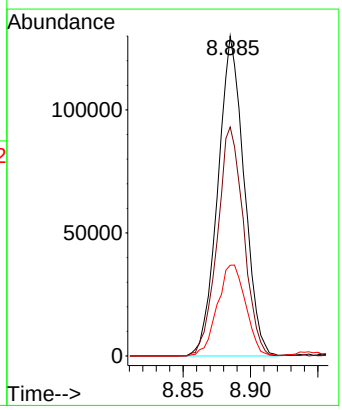


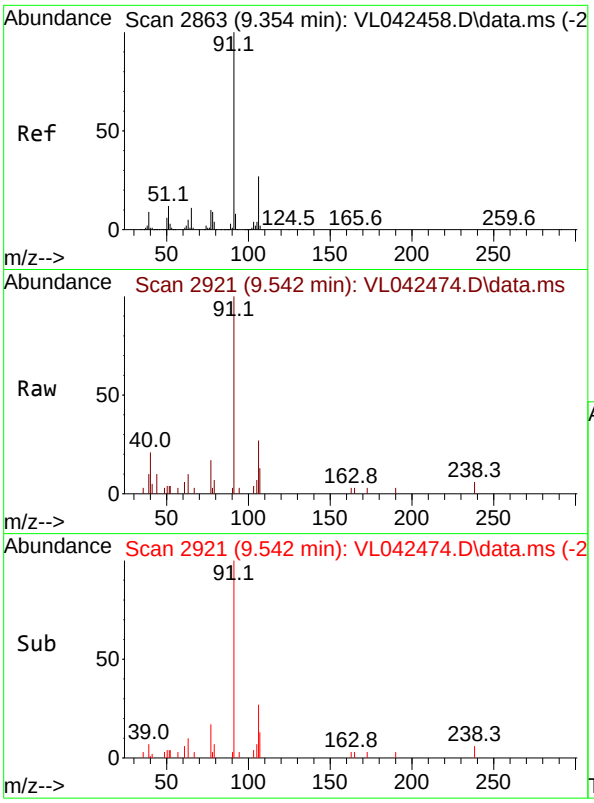


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.885 min Scan# 2718
Delta R.T. 0.003 min
Lab File: VL042474.D
Acq: 05 May 2025 13:11

Tgt Ion:117 Resp: 175917

Ion	Ratio	Lower	Upper
117	100		
82	72.0	63.5	95.3
119	30.7	25.8	38.8



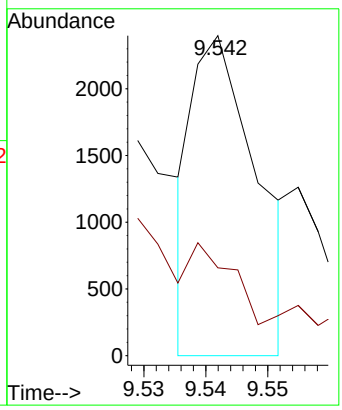


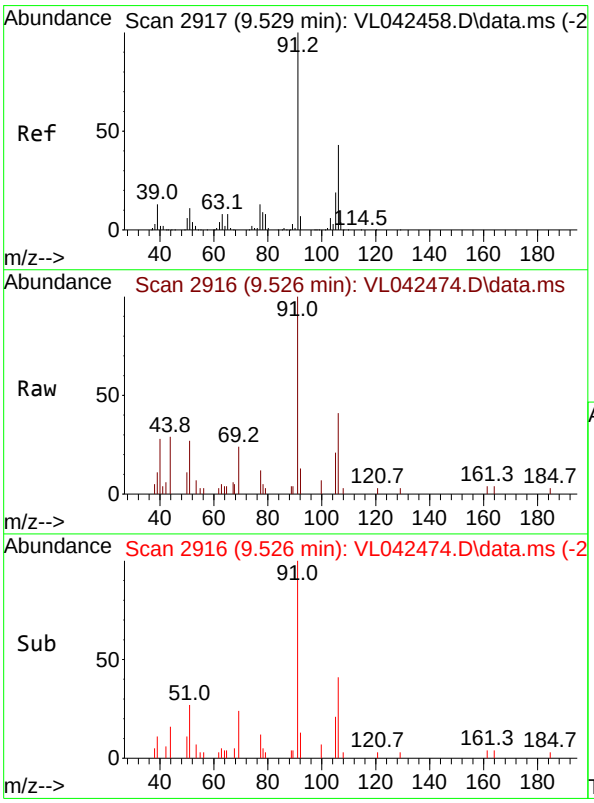
#58
Ethyl Benzene
Concen: 0.059 ppbv
RT: 9.542 min Scan# 2
Delta R.T. 0.188 min
Lab File: VL042474.D
Acq: 05 May 2025 13:11

Instrument :
MSVOA_L
ClientSampleId :
EBR-P04-SC-SS01-20250428

Tgt Ion: 91 Resp: 1725

Ion	Ratio	Lower	Upper
91	100		
106	29.0	21.9	32.9

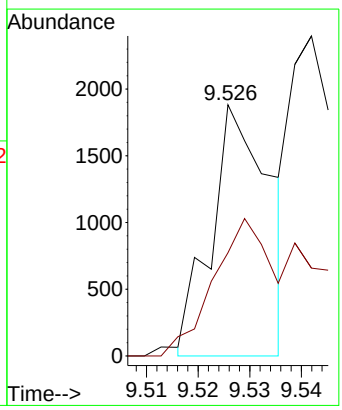


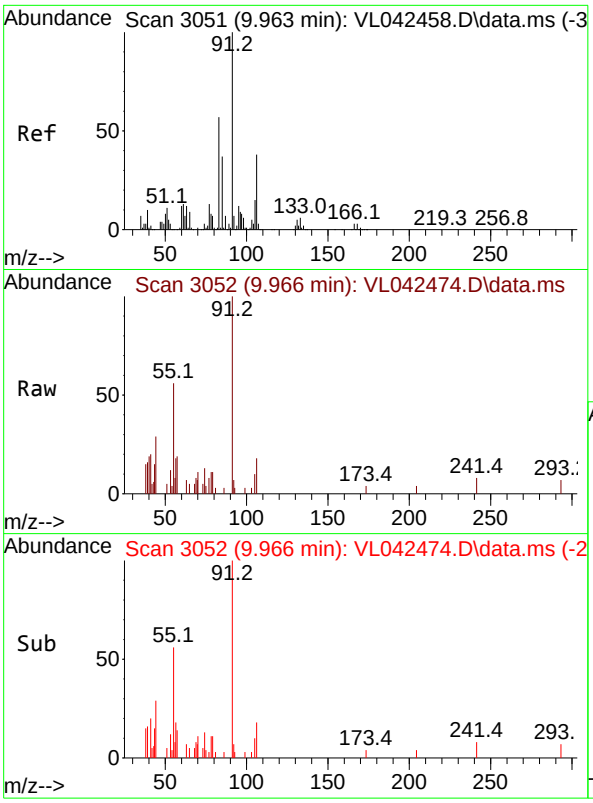


#59
m/p-Xylene
Concen: 0.060 ppbv
RT: 9.526 min Scan# 2916
Delta R.T. -0.003 min
Lab File: VL042474.D
Acq: 05 May 2025 13:11

Tgt Ion: 91 Resp: 1473

Ion	Ratio	Lower	Upper
91	100		
106	117.7	34.2	51.2#



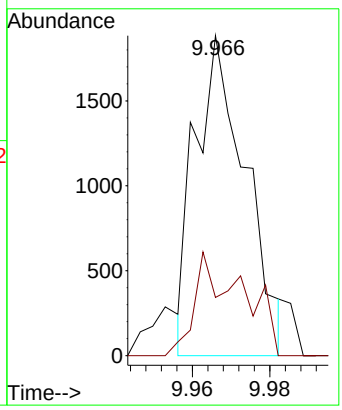


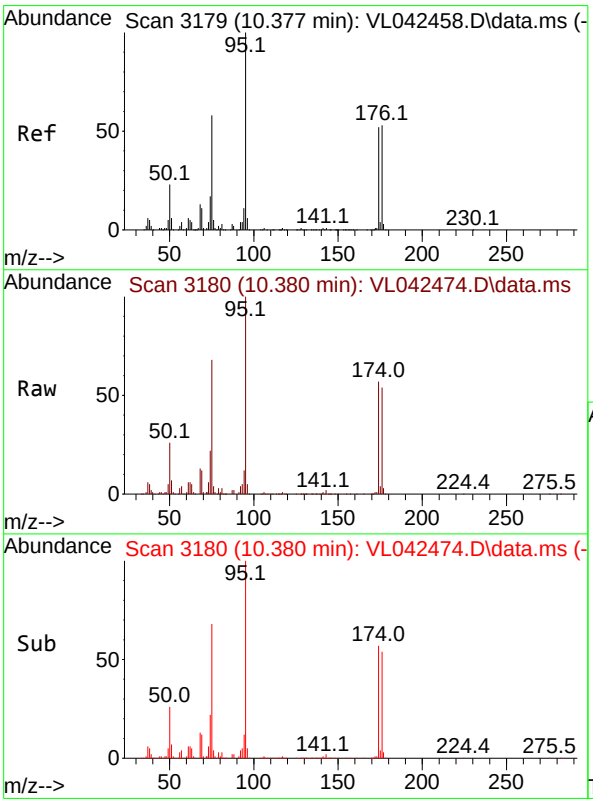
#60
o-Xylene
Concen: 0.069 ppbv
RT: 9.966 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042474.D
Acq: 05 May 2025 13:11

Instrument :
MSVOA_L
ClientSampleId :
EBR-P04-SC-SS01-20250428

Tgt Ion: 91 Resp: 1706

Ion	Ratio	Lower	Upper
91	100		
106	30.5	20.1	60.2

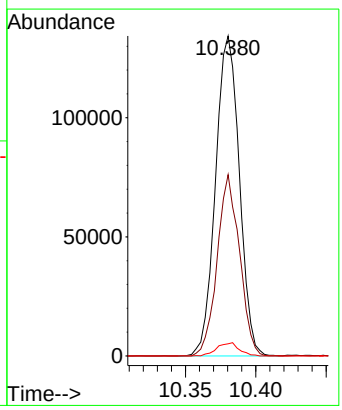


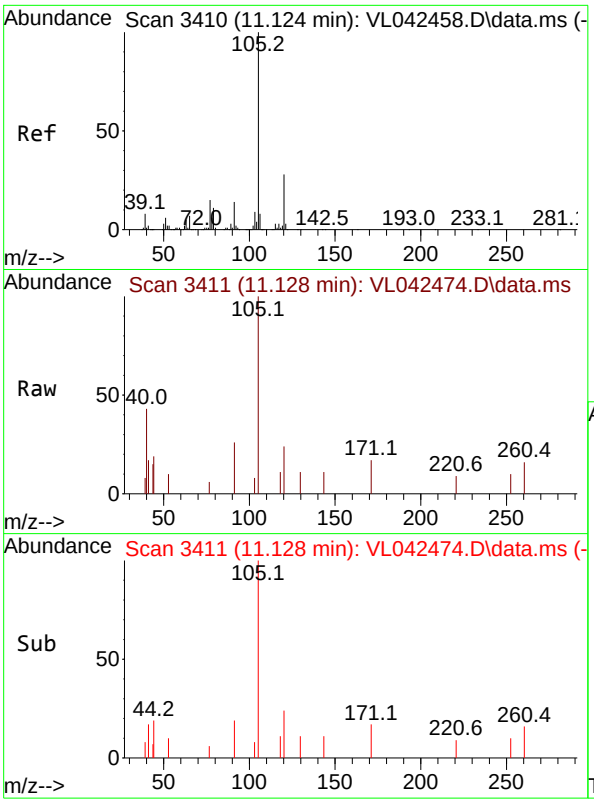


#68
1-Bromo-4-Fluorobenzene
Concen: 9.708 ppbv
RT: 10.380 min Scan# 3180
Delta R.T. 0.003 min
Lab File: VL042474.D
Acq: 05 May 2025 13:11

Tgt Ion: 95 Resp: 158342

Ion	Ratio	Lower	Upper
95	100		
174	53.3	42.7	64.1
175	3.9	3.6	5.4



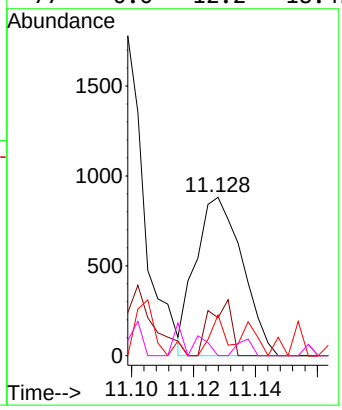


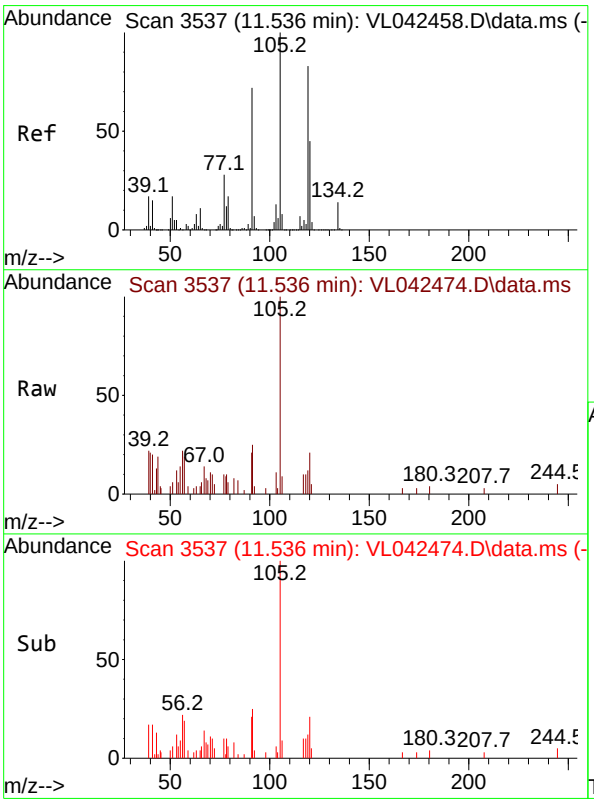
#72
4-Ethyltoluene
Concen: 0.032 ppbv
RT: 11.128 min Scan# 34
Delta R.T. 0.003 min
Lab File: VL042474.D
Acq: 05 May 2025 13:11

Instrument :
MSVOA_L
ClientSampleId :
EBR-P04-SC-SS01-20250428

Tgt Ion:105 Resp: 923

Ion	Ratio	Lower	Upper
105	100		
120	0.0	22.0	33.0#
91	7.4	11.2	16.8#
77	0.0	12.2	18.4#

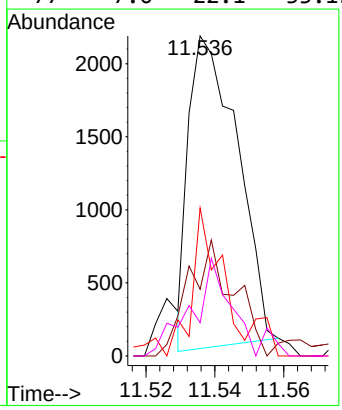




#74
1,2,4-Trimethylbenzene
Concen: 0.068 ppbv
RT: 11.536 min Scan# 3537
Delta R.T. 0.000 min
Lab File: VL042474.D
Acq: 05 May 2025 13:11

Tgt Ion:105 Resp: 2102

Ion	Ratio	Lower	Upper
105	100		
120	23.0	36.1	54.1#
91	49.0	57.6	86.4#
77	7.0	22.1	33.1#



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050525\
Data File : VL042475.D
Acq On : 05 May 2025 14:44
Operator : SY/MD
Sample : Q1927-04
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
EBR-P03-SC-SS01-20250428

Quant Time: May 06 01:41:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri May 02 03:16:31 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.794	49	76909	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.968	114	213607	10.000	ppbv		0.01
55) Chlorobenzene-d5	8.891	117	190161	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.383	95	177304	10.057	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 100.600%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.499	85	7173	0.564	ppbv		98
3) Chlorodifluoromethane	1.463	51	27295	2.028	ppbv	#	61
4) Chloromethane	1.531	50	3569	0.671	ppbv	#	78
5) Vinyl Chloride	1.577	62	387	0.072	ppbv	#	77
7) Chloroethane	1.709	64	114	0.058	ppbv	#	43
8) Dichlorotetrafluoroethane	1.554	85	345	0.033	ppbv	#	46
9) Propene	1.483	41	48486	11.016	ppbv		87
10) Heptane	4.991	43	59816	5.239	ppbv		91
11) Trichlorofluoromethane	1.881	101	2769	0.236	ppbv		99
12) 1,1,2-Trichlorotrifluo...	2.143	101	702	0.075	ppbv	#	53
13) Ethanol	1.725	45	73185	81.939	ppbv		96
15) Acetone	1.839	43	569403	40.557	ppbv		100
16) 1,3-Butadiene	1.622	39	17716	2.861	ppbv	#	15
17) tert-Butyl alcohol	2.046	59	63678	5.148	ppbv		96
19) Isopropyl Alcohol	1.891	45	24033	3.093	ppbv	#	1
20) Methylene Chloride	2.065	84	4735	1.122	ppbv		91
21) Allyl Chloride	2.085	41	2483	0.275	ppbv	#	1
23) Vinyl Acetate	2.480	43	120778	9.014	ppbv	#	44
25) Ethyl Acetate	2.832	43	101785	4.528	ppbv	#	80
26) Hexane	2.832	57	156355	15.965	ppbv	#	37
27) Carbon Disulfide	2.156	76	16500	1.444	ppbv	#	1
29) Chloroform	2.855	83	3114	0.170	ppbv		88
30) Cyclohexane	3.871	84	1233	0.151	ppbv	#	1
34) 2-Butanone	2.564	43	32498	2.103	ppbv	#	91
35) Carbon Tetrachloride	3.765	117	647	0.033	ppbv	#	90
36) Benzene	3.664	78	11366	0.564	ppbv	#	88
37) 1,2-Dichloroethane	3.224	62	804	0.052	ppbv	#	84
39) 1,2-Dichloropropane	3.968	63	62327	8.259	ppbv	#	24
40) 1,4-Dioxane	4.616	88	187	0.053	ppbv	#	100
41) Tetrahydrofuran	3.069	42	2480	0.338	ppbv	#	90
44) 2,2,4-Trimethylpentane	4.648	57	2016	0.062	ppbv	#	1
51) 2-Hexanone	7.467	43	1886	0.121	ppbv	#	87
53) Toluene	6.946	91	8602	0.403	ppbv	#	38
56) 1,1,1,2-Tetrachloroethane	8.946	131	3156	0.281	ppbv	#	1
58) Ethyl Benzene	9.361	91	12254	0.386	ppbv		97
59) m/p-Xylene	9.539	91	40302	1.513	ppbv		98
60) o-Xylene	9.972	91	18356	0.688	ppbv		99
61) Styrene	9.888	104	324	0.033	ppbv	#	26
66) Benzyl Chloride	11.630	91	148	0.037	ppbv	#	67
73) 1,3,5-Trimethylbenzene	11.212	105	882	0.032	ppbv	#	82
74) 1,2,4-Trimethylbenzene	11.545	105	2859	0.085	ppbv	#	53

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050525\
Data File : VL042475.D
Acq On : 05 May 2025 14:44
Operator : SY/MD
Sample : Q1927-04
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
EBR-P03-SC-SS01-20250428

Quant Time: May 06 01:41:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri May 02 03:16:31 2025
Response via : Initial Calibration

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

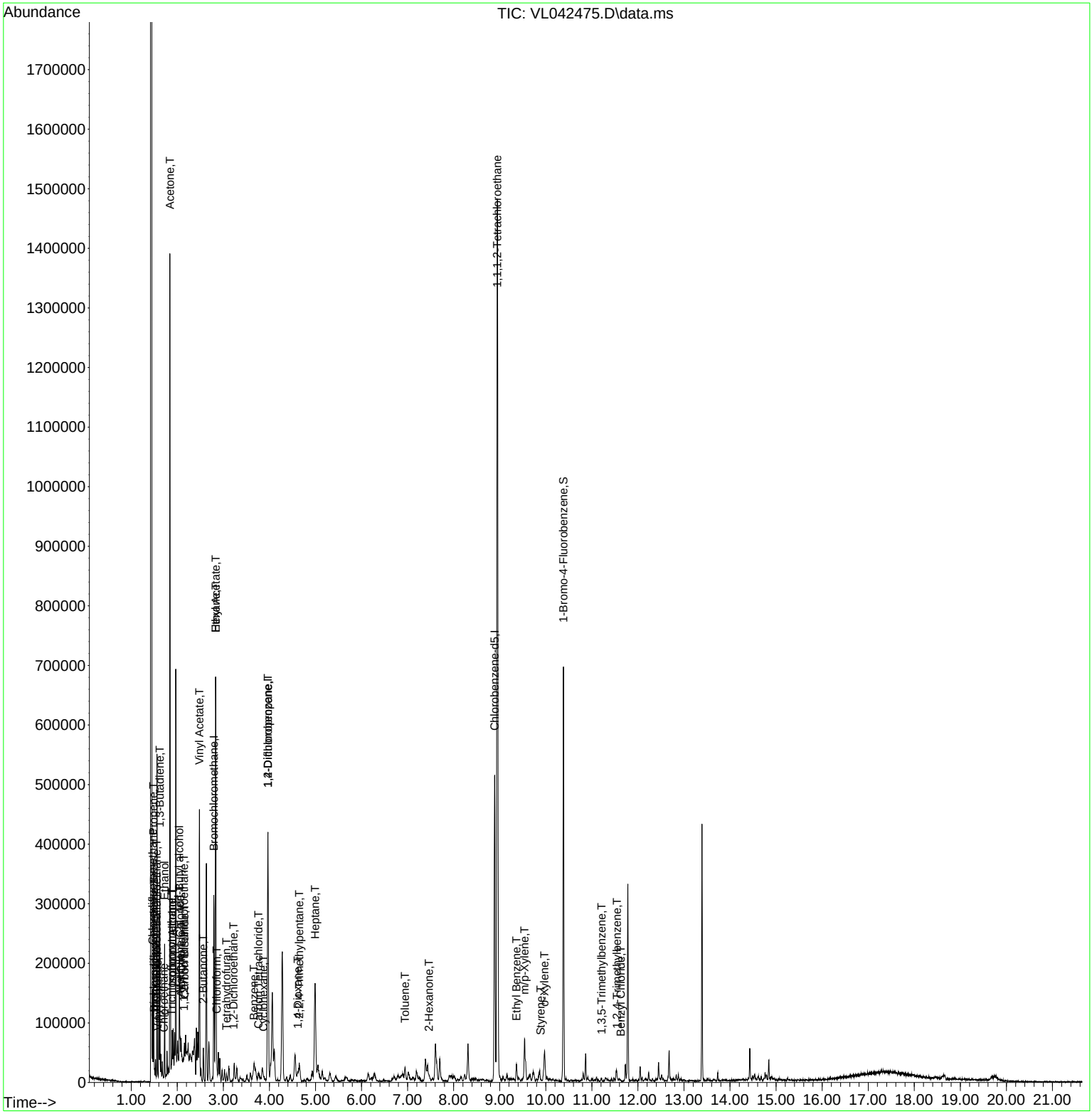
(#) = qualifier out of range (m) = manual integration (+) = signals summed

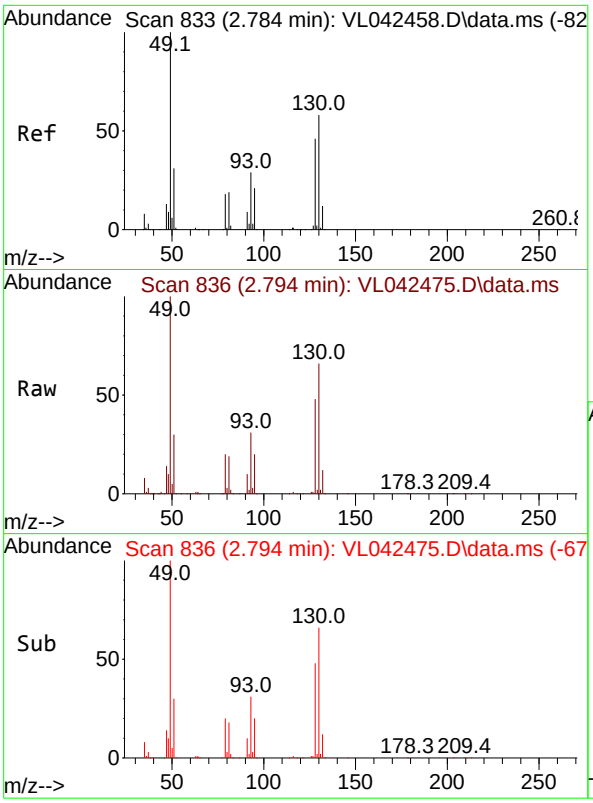
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050525\
Data File : VL042475.D
Acq On : 05 May 2025 14:44
Operator : SY/MD
Sample : Q1927-04
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
EBR-P03-SC-SS01-20250428

Quant Time: May 06 01:41:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri May 02 03:16:31 2025
Response via : Initial Calibration



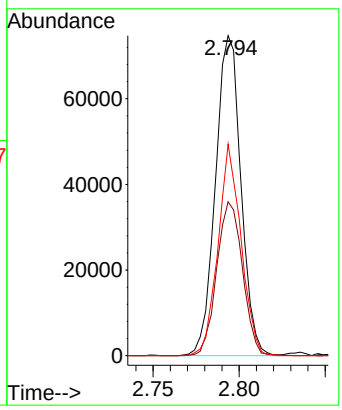


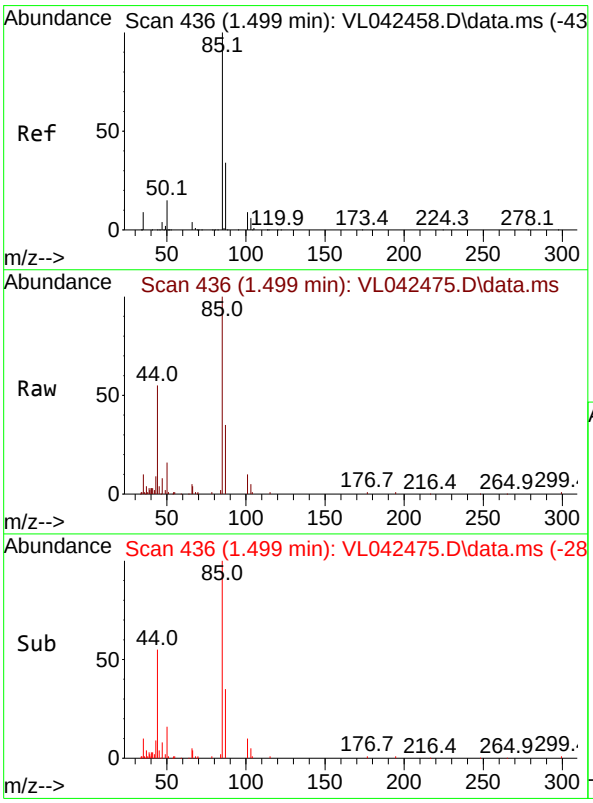
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.794 min Scan# 8
Delta R.T. 0.010 min
Lab File: VL042475.D
Acq: 05 May 2025 14:44

Instrument :
MSVOA_L
ClientSampleId :
EBR-P03-SC-SS01-20250428

Tgt Ion: 49 Resp: 76909

Ion	Ratio	Lower	Upper
49	100		
128	48.7	23.3	69.9
130	59.6	29.5	88.6

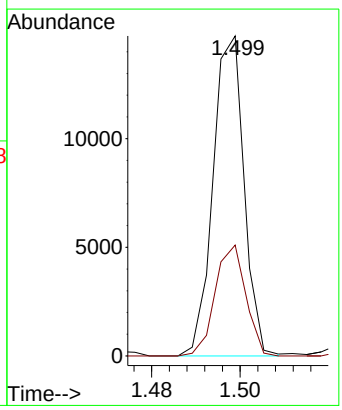


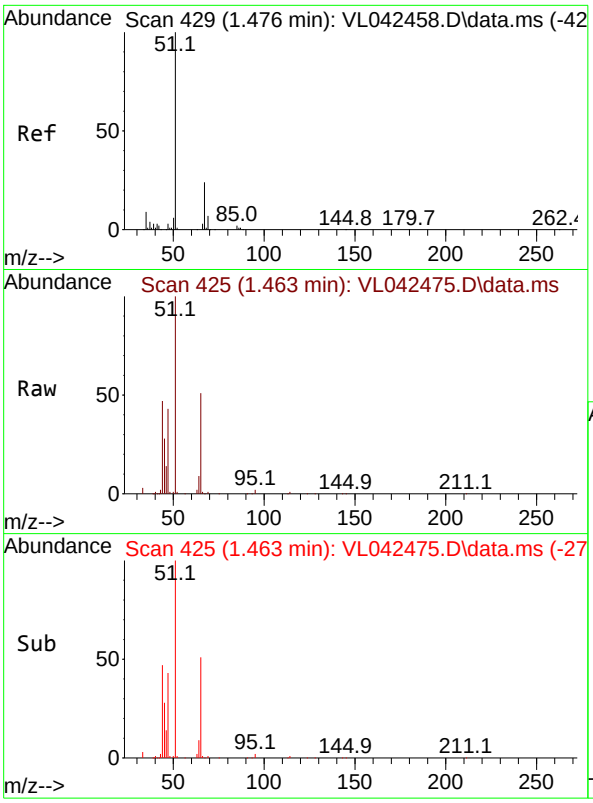


#2
Dichlorodifluoromethane
Concen: 0.564 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.000 min
Lab File: VL042475.D
Acq: 05 May 2025 14:44

Tgt Ion: 85 Resp: 7173

Ion	Ratio	Lower	Upper
85	100		
87	34.7	26.9	40.3



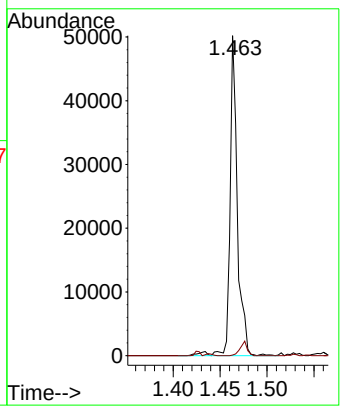


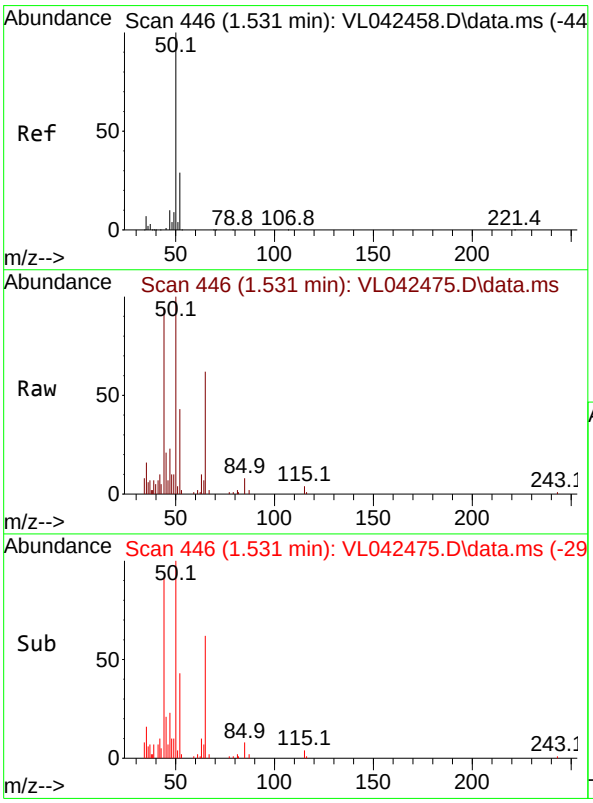
#3
Chlorodifluoromethane
Concen: 2.028 ppbv
RT: 1.463 min Scan# 4
Delta R.T. -0.013 min
Lab File: VL042475.D
Acq: 05 May 2025 14:44

Instrument :
MSVOA_L
ClientSampleId :
EBR-P03-SC-SS01-20250428

Tgt Ion: 51 Resp: 27295

Ion	Ratio	Lower	Upper
51	100		
67	4.3	18.4	27.6#

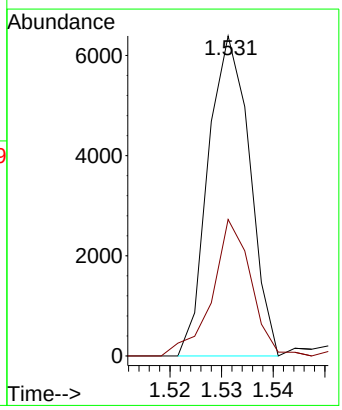


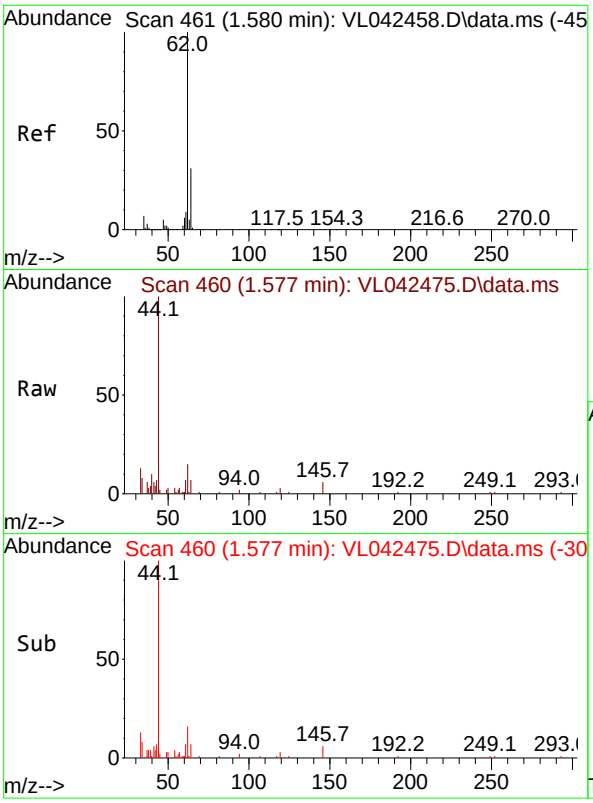


#4
Chloromethane
Concen: 0.671 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL042475.D
Acq: 05 May 2025 14:44

Tgt Ion: 50 Resp: 3569

Ion	Ratio	Lower	Upper
50	100		
52	41.5	23.5	35.3#



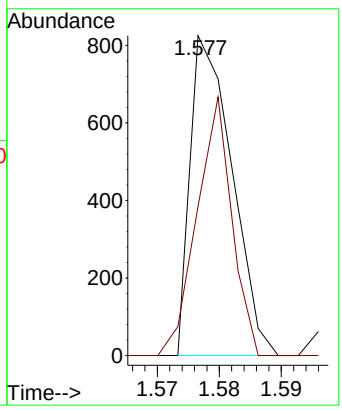


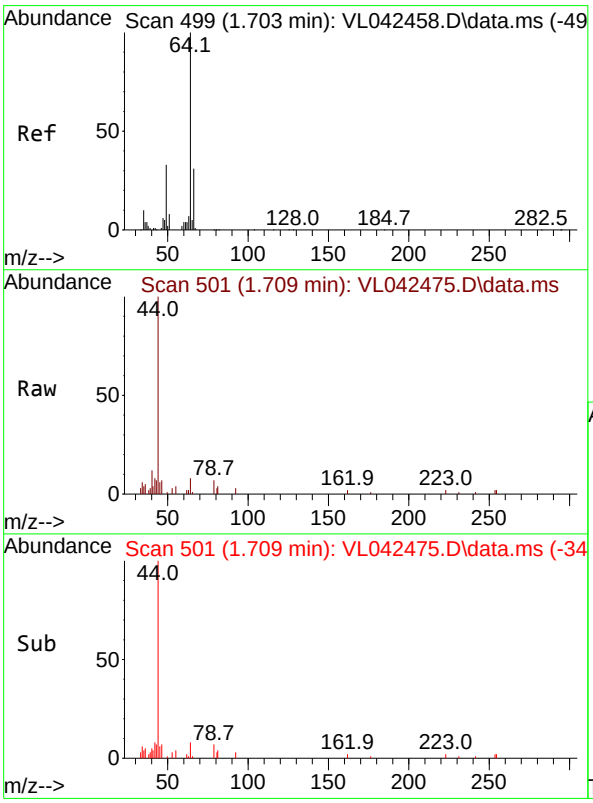
#5
Vinyl Chloride
Concen: 0.072 ppbv
RT: 1.577 min Scan# 4
Delta R.T. -0.003 min
Lab File: VL042475.D
Acq: 05 May 2025 14:44

Instrument :
MSVOA_L
ClientSampleId :
EBR-P03-SC-SS01-20250428

Tgt Ion: 62 Resp: 387

Ion	Ratio	Lower	Upper
62	100		
64	44.0	24.9	37.3#

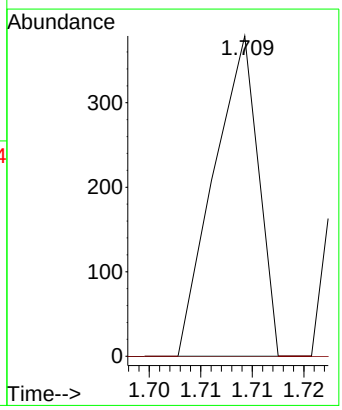


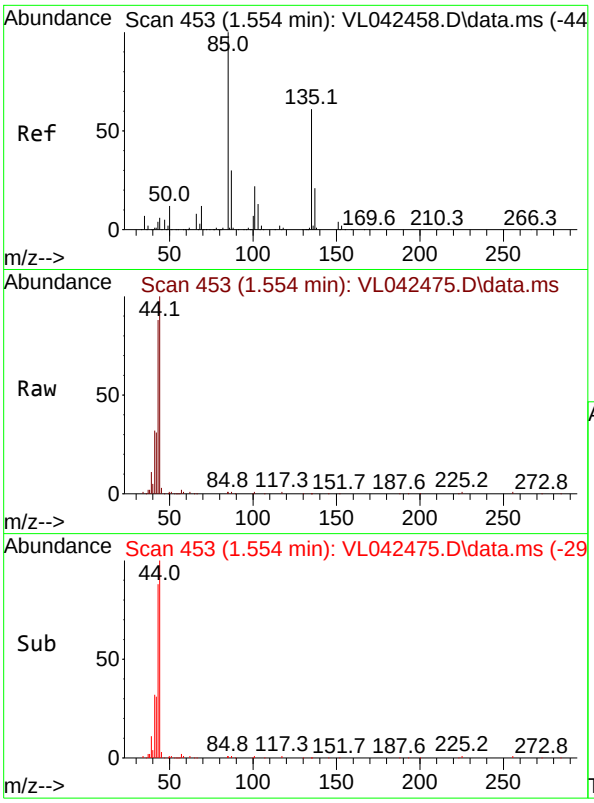


#7
Chloroethane
Concen: 0.058 ppbv
RT: 1.709 min Scan# 501
Delta R.T. 0.007 min
Lab File: VL042475.D
Acq: 05 May 2025 14:44

Tgt Ion: 64 Resp: 114

Ion	Ratio	Lower	Upper
64	100		
66	0.0	25.0	37.4#



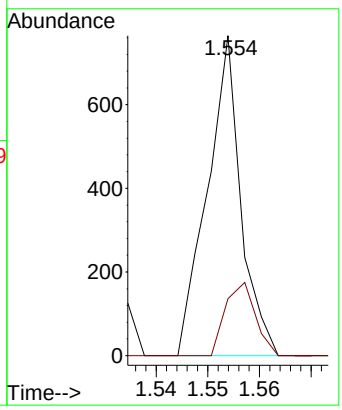


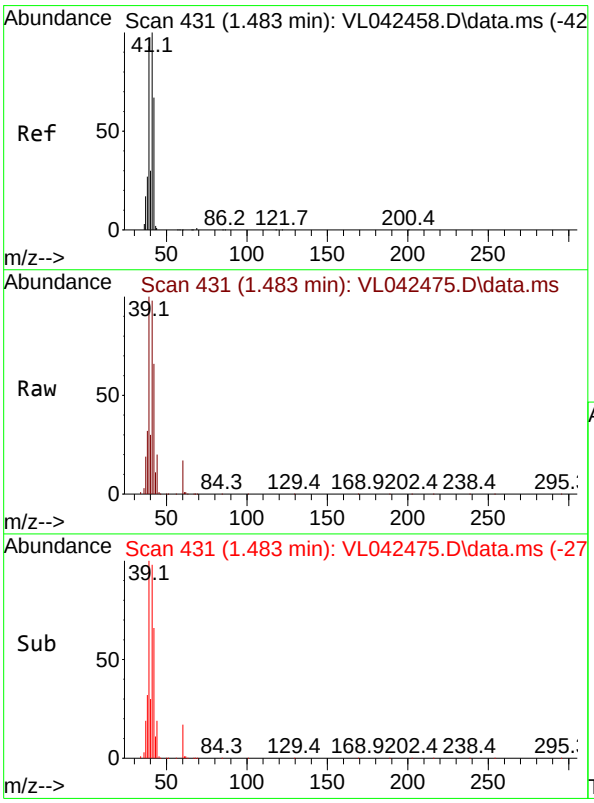
#8
Dichlorotetrafluoroethane
Concen: 0.033 ppbv
RT: 1.554 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042475.D
Acq: 05 May 2025 14:44

Instrument :
MSVOA_L
ClientSampleId :
EBR-P03-SC-SS01-20250428

Tgt Ion: 85 Resp: 345

Ion	Ratio	Lower	Upper
85	100		
135	20.6	49.8	74.8#

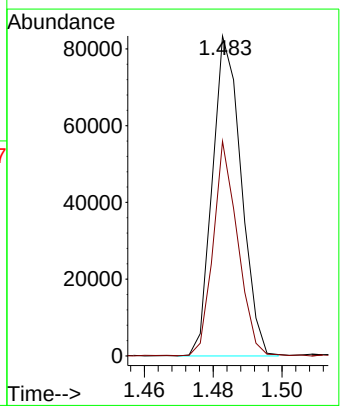


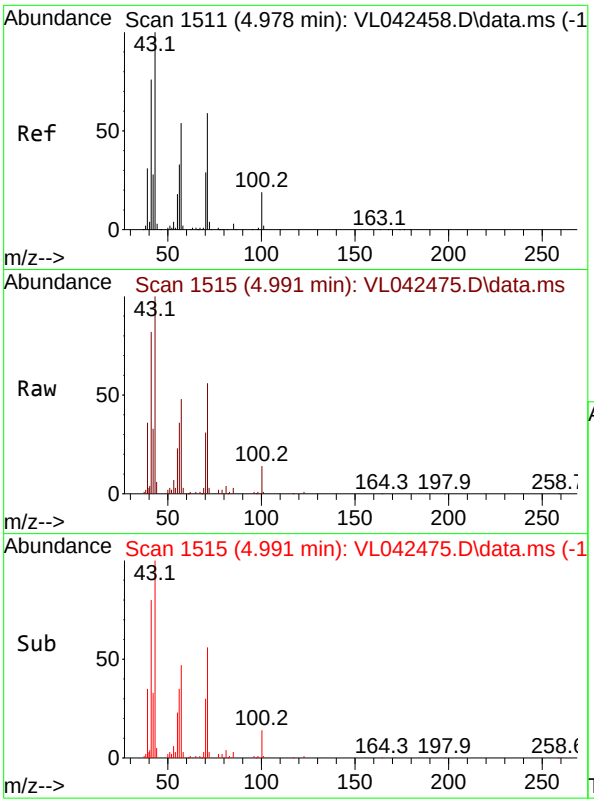


#9
Propene
Concen: 11.016 ppbv
RT: 1.483 min Scan# 431
Delta R.T. 0.000 min
Lab File: VL042475.D
Acq: 05 May 2025 14:44

Tgt Ion: 41 Resp: 48486

Ion	Ratio	Lower	Upper
41	100		
42	57.5	54.3	81.5



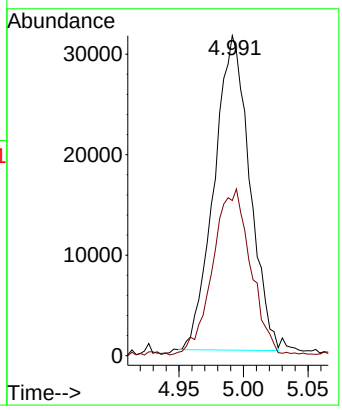


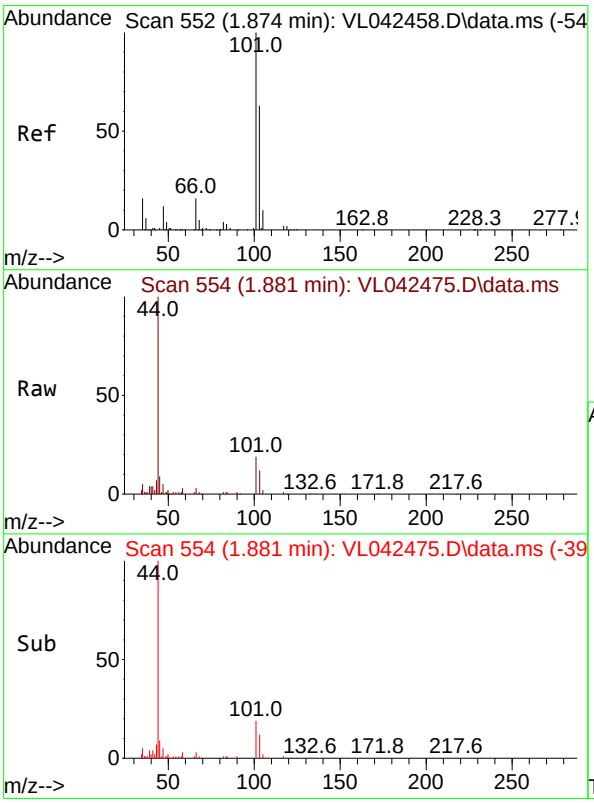
#10
Heptane
Concen: 5.239 ppbv
RT: 4.991 min Scan# 1
Delta R.T. 0.013 min
Lab File: VL042475.D
Acq: 05 May 2025 14:44

Instrument :
MSVOA_L
ClientSampleId :
EBR-P03-SC-SS01-20250428

Tgt Ion: 43 Resp: 59816

Ion	Ratio	Lower	Upper
43	100		
57	58.6	41.8	62.8

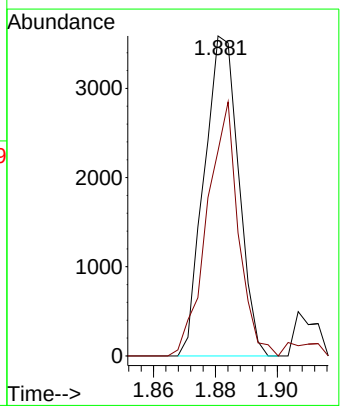


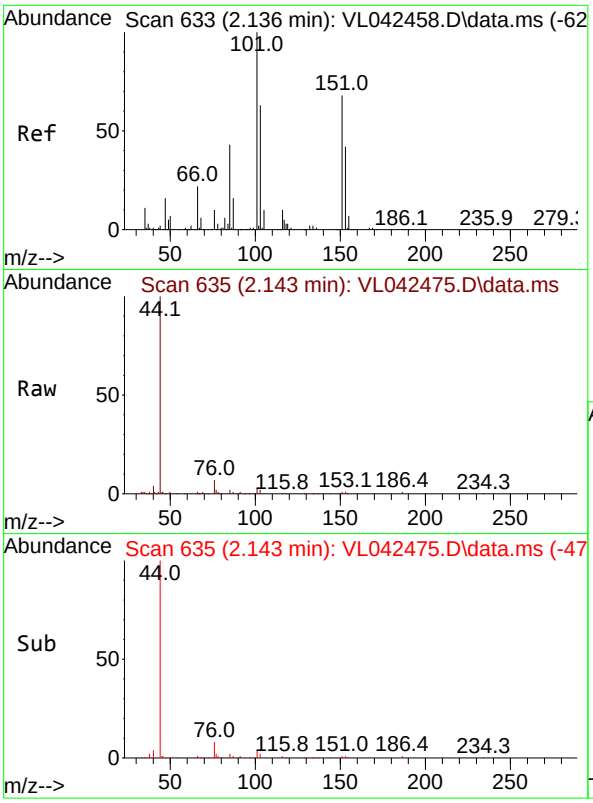


#11
Trichlorofluoromethane
Concen: 0.236 ppbv
RT: 1.881 min Scan# 554
Delta R.T. 0.007 min
Lab File: VL042475.D
Acq: 05 May 2025 14:44

Tgt Ion:101 Resp: 2769

Ion	Ratio	Lower	Upper
101	100		
103	64.1	50.6	76.0



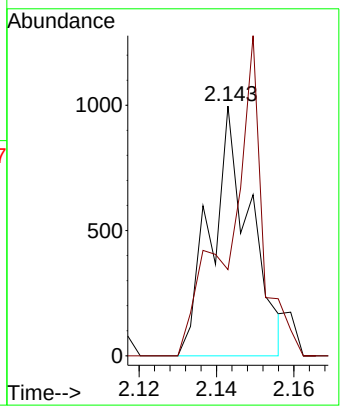


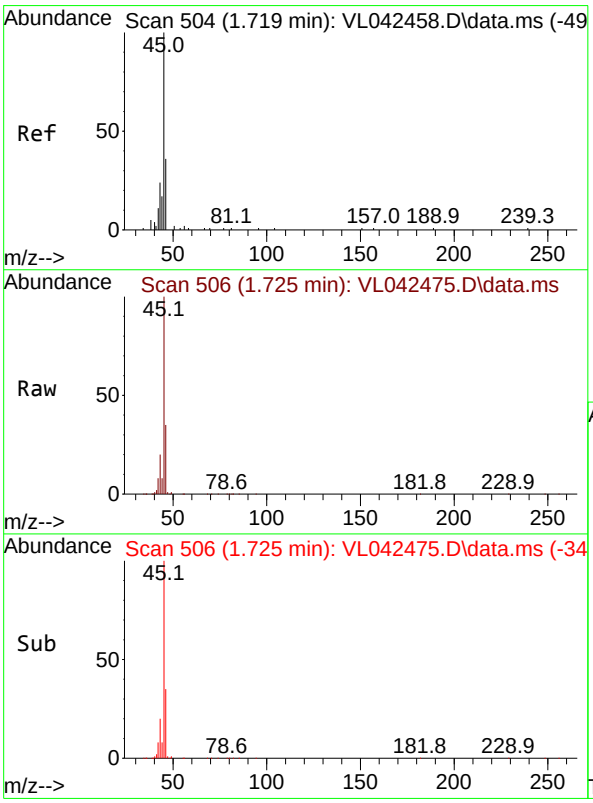
#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.075 ppbv
RT: 2.143 min Scan# 6
Delta R.T. 0.007 min
Lab File: VL042475.D
Acq: 05 May 2025 14:44

Instrument :
MSVOA_L
ClientSampleId :
EBR-P03-SC-SS01-20250428

Tgt Ion:101 Resp: 702

Ion	Ratio	Lower	Upper
101	100		
151	106.6	54.6	82.0#

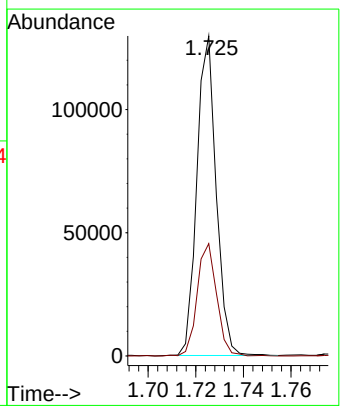


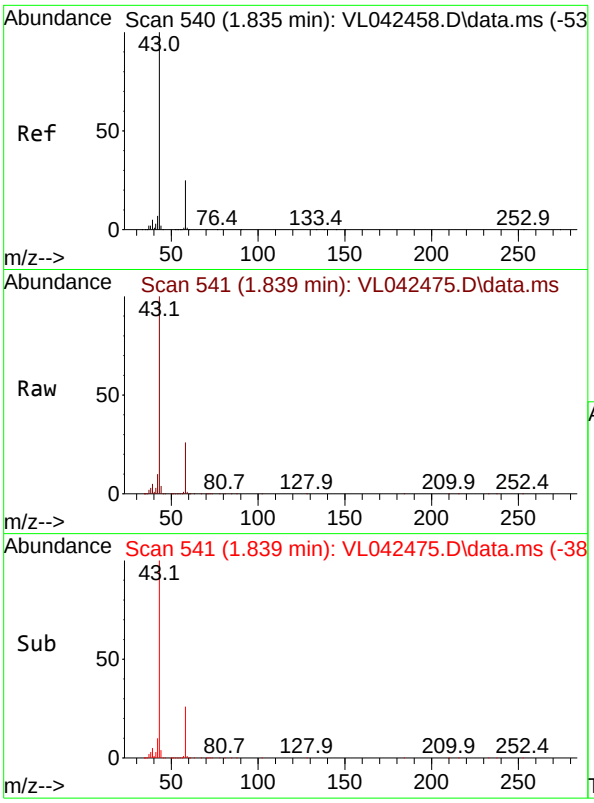


#13
Ethanol
Concen: 81.939 ppbv
RT: 1.725 min Scan# 506
Delta R.T. 0.007 min
Lab File: VL042475.D
Acq: 05 May 2025 14:44

Tgt Ion: 45 Resp: 73185

Ion	Ratio	Lower	Upper
45	100		
46	35.7	15.3	61.1



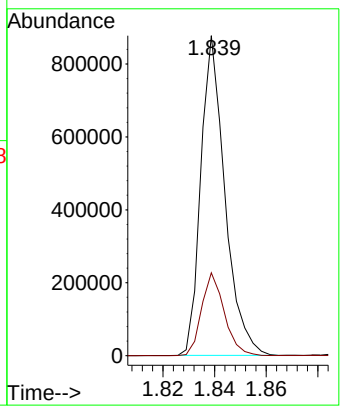


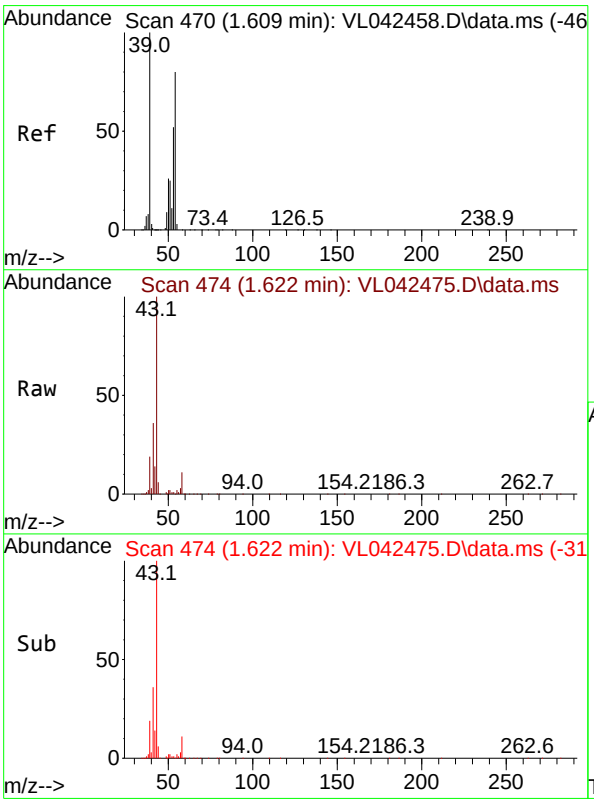
#15
Acetone
Concen: 40.557 ppbv
RT: 1.839 min Scan# 54
Delta R.T. 0.003 min
Lab File: VL042475.D
Acq: 05 May 2025 14:44

Instrument :
MSVOA_L
ClientSampleId :
EBR-P03-SC-SS01-20250428

Tgt Ion: 43 Resp: 569403

Ion	Ratio	Lower	Upper
43	100		
58	24.6	19.8	29.8

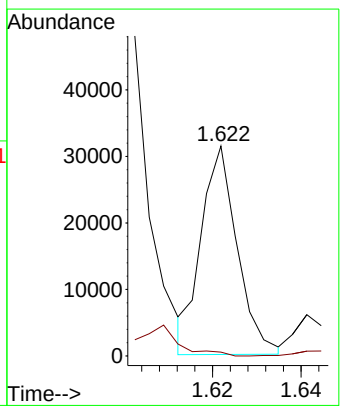


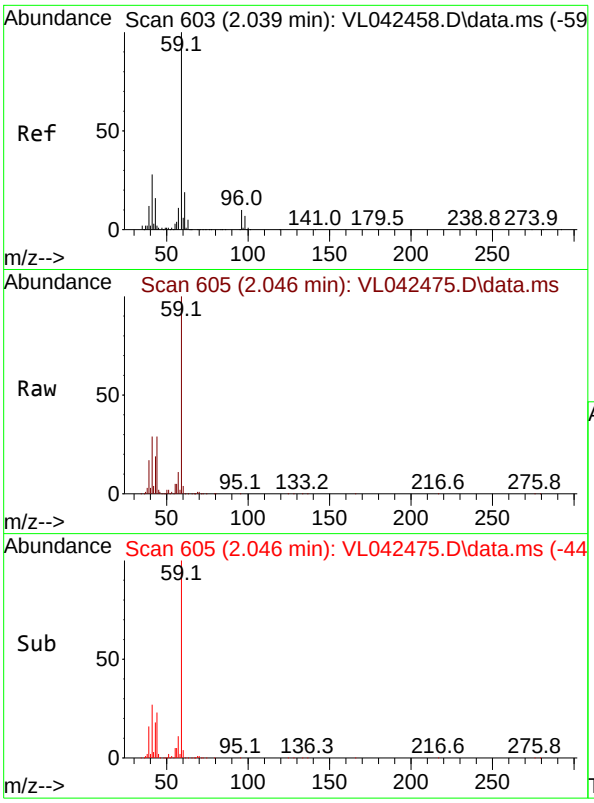


#16
1,3-Butadiene
Concen: 2.861 ppbv
RT: 1.622 min Scan# 474
Delta R.T. 0.013 min
Lab File: VL042475.D
Acq: 05 May 2025 14:44

Tgt Ion: 39 Resp: 17716

Ion	Ratio	Lower	Upper
39	100		
54	0.0	55.2	82.8#



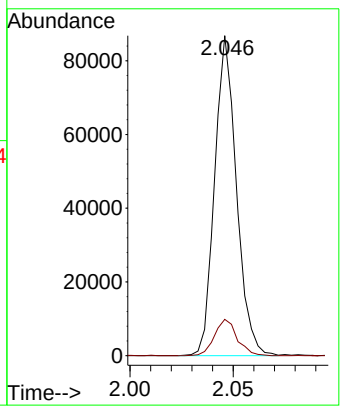


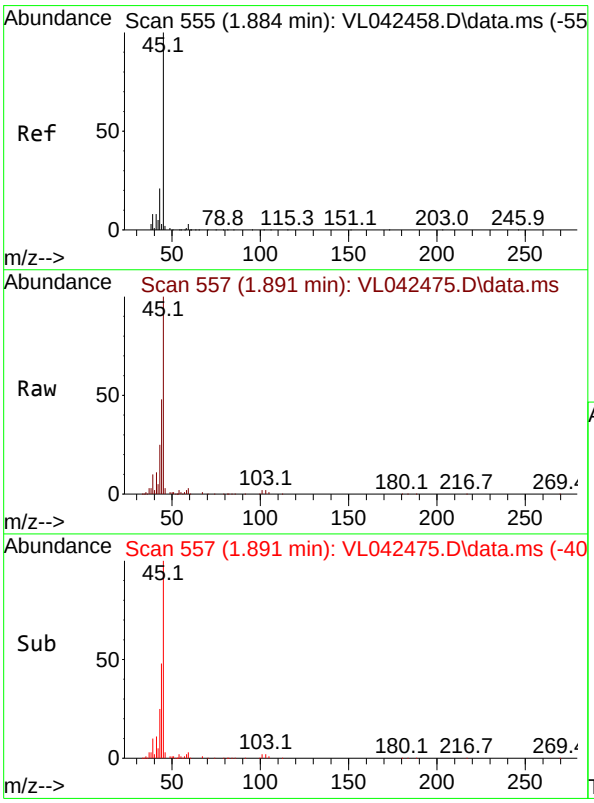
#17
tert-Butyl alcohol
Concen: 5.148 ppbv
RT: 2.046 min Scan# 6
Delta R.T. 0.007 min
Lab File: VL042475.D
Acq: 05 May 2025 14:44

Instrument :
MSVOA_L
ClientSampleId :
EBR-P03-SC-SS01-20250428

Tgt Ion: 59 Resp: 63678

Ion	Ratio	Lower	Upper
59	100		
57	11.8	8.3	12.5

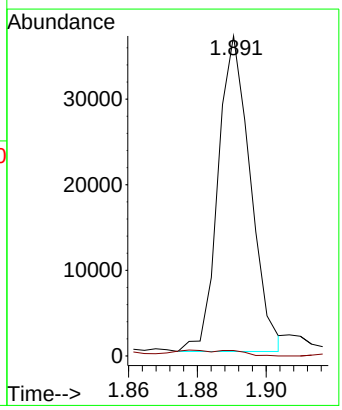


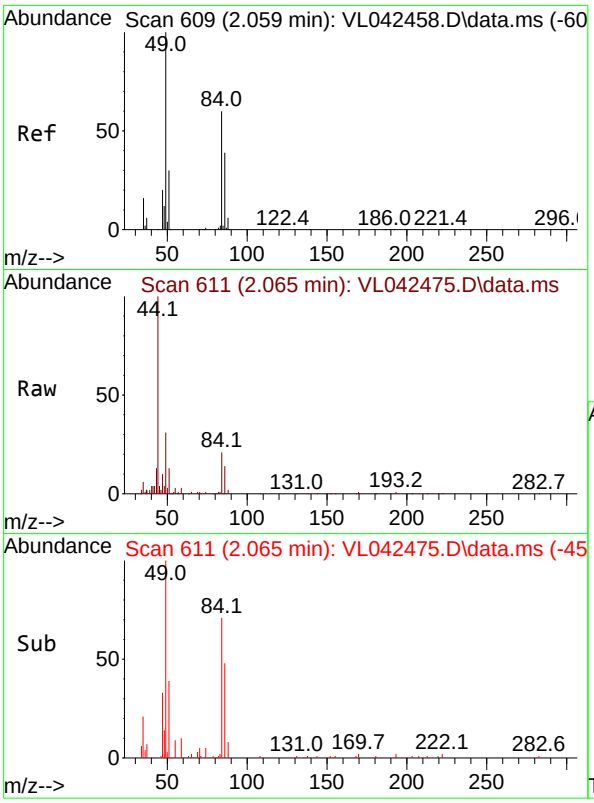


#19
Isopropyl Alcohol
Concen: 3.093 ppbv
RT: 1.891 min Scan# 557
Delta R.T. 0.007 min
Lab File: VL042475.D
Acq: 05 May 2025 14:44

Tgt Ion: 45 Resp: 24033

Ion	Ratio	Lower	Upper
45	100		
58	583.6	1.6	2.4#



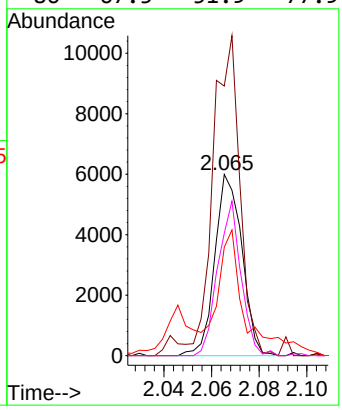


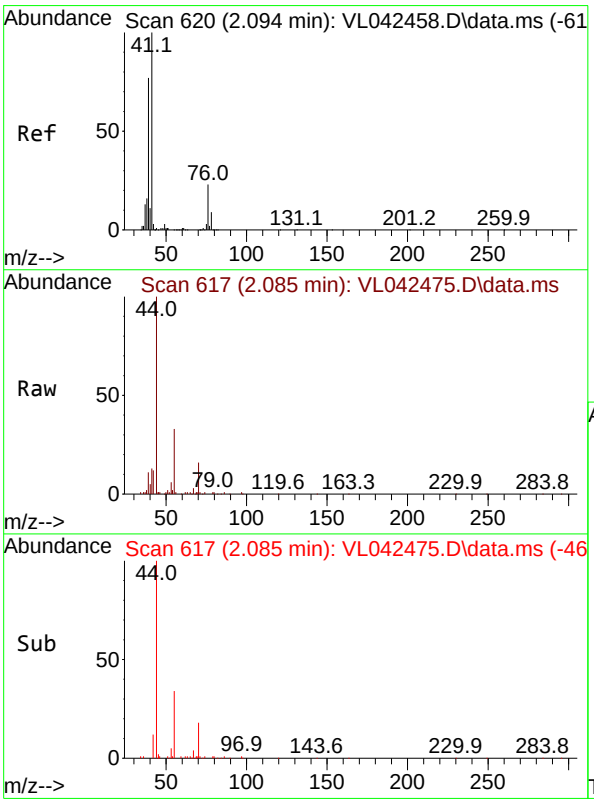
#20
Methylene Chloride
Concen: 1.122 ppbv
RT: 2.065 min Scan# 61
Delta R.T. 0.007 min
Lab File: VL042475.D
Acq: 05 May 2025 14:44

Instrument :
MSVOA_L
ClientSampleId :
EBR-P03-SC-SS01-20250428

Tgt Ion: 84 Resp: 4735

Ion	Ratio	Lower	Upper
84	100		
49	148.7	133.9	200.9
51	49.8	41.0	61.6
86	67.5	51.9	77.9

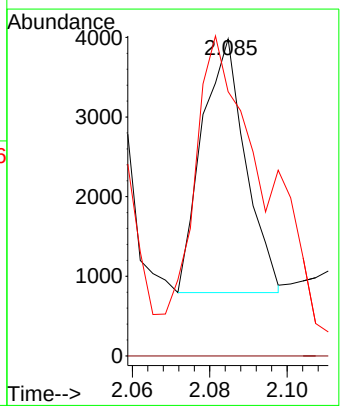


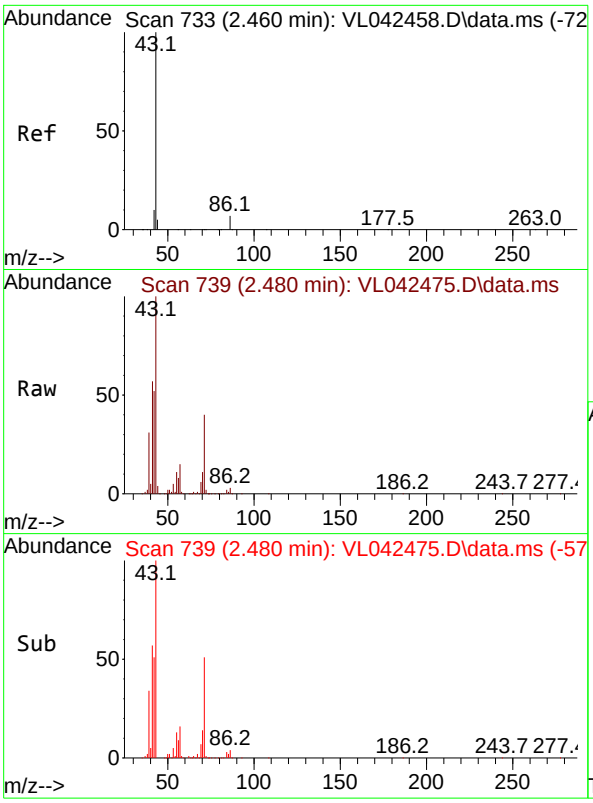


#21
Allyl Chloride
Concen: 0.275 ppbv
RT: 2.085 min Scan# 617
Delta R.T. -0.010 min
Lab File: VL042475.D
Acq: 05 May 2025 14:44

Tgt Ion: 41 Resp: 2483

Ion	Ratio	Lower	Upper
41	100		
76	0.0	19.6	29.4#
39	190.6	61.0	91.4#



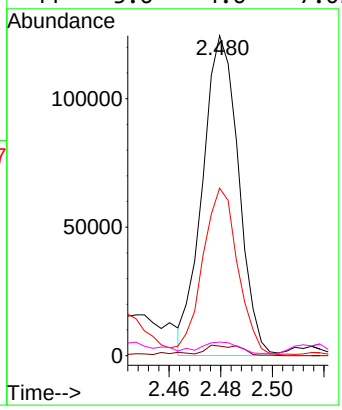


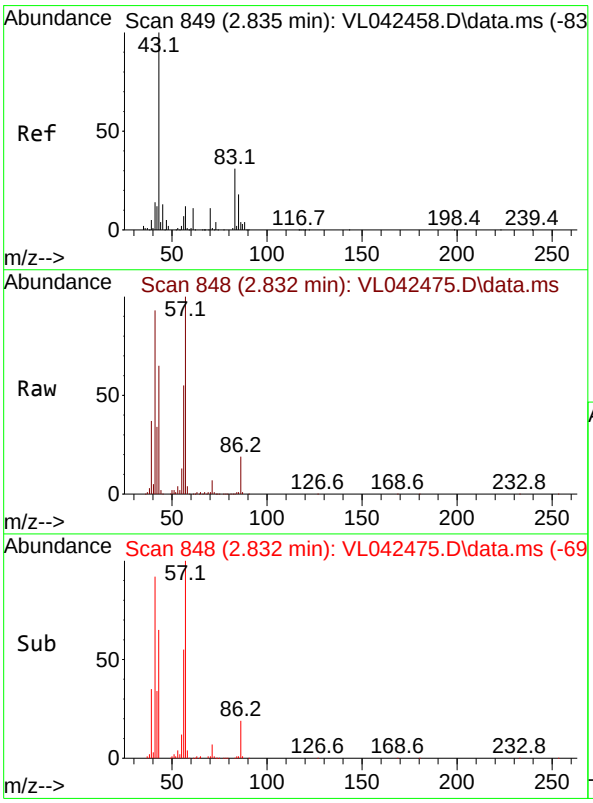
#23
Vinyl Acetate
Concen: 9.014 ppbv
RT: 2.480 min Scan# 7
Delta R.T. 0.020 min
Lab File: VL042475.D
Acq: 05 May 2025 14:44

Instrument :
MSVOA_L
ClientSampleId :
EBR-P03-SC-SS01-20250428

Tgt Ion: 43 Resp: 120778

Ion	Ratio	Lower	Upper
43	100		
86	3.0	5.5	8.3#
42	52.4	8.3	12.5#
44	3.6	4.6	7.0#

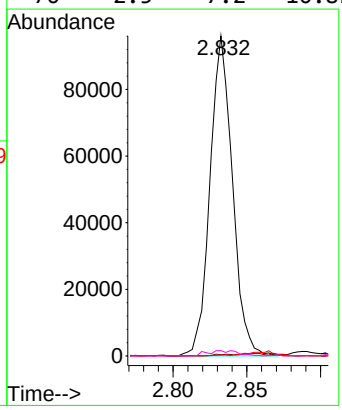


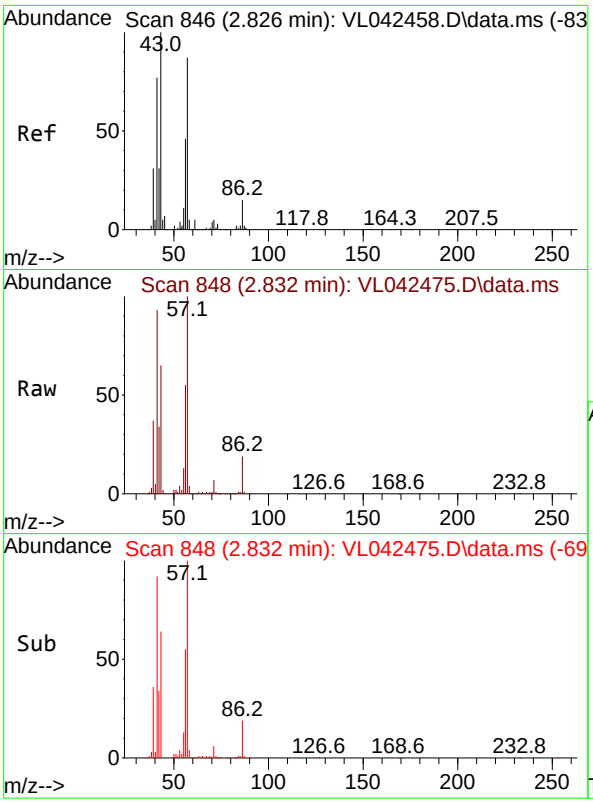


#25
Ethyl Acetate
Concen: 4.528 ppbv
RT: 2.832 min Scan# 848
Delta R.T. -0.003 min
Lab File: VL042475.D
Acq: 05 May 2025 14:44

Tgt Ion: 43 Resp: 101785

Ion	Ratio	Lower	Upper
43	100		
45	1.6	7.8	11.6#
61	2.0	7.2	10.8#
70	2.5	7.2	10.8#



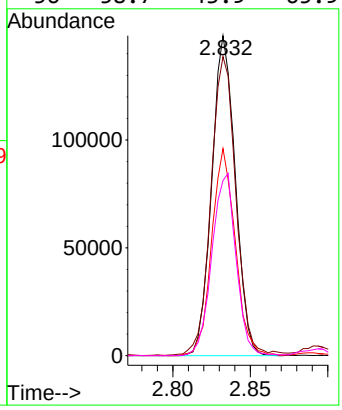


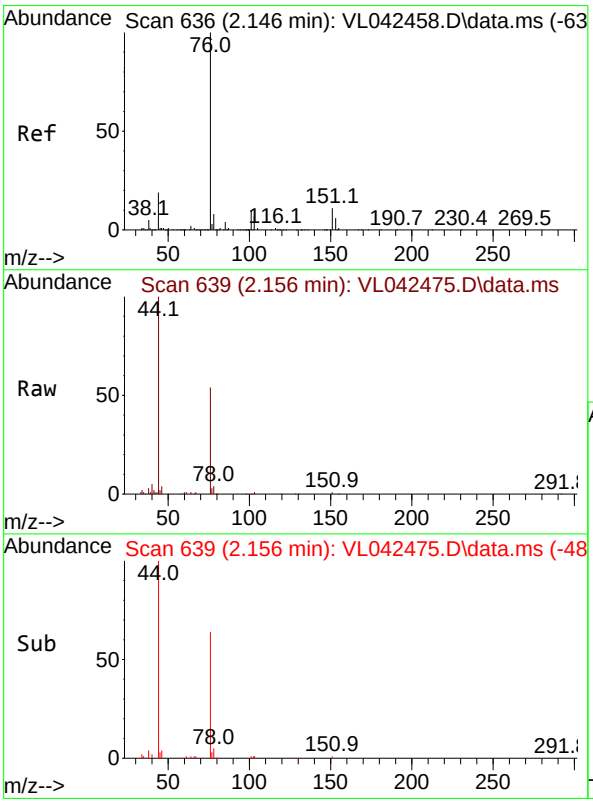
#26
Hexane
Concen: 15.965 ppbv
RT: 2.832 min Scan# 84
Delta R.T. 0.007 min
Lab File: VL042475.D
Acq: 05 May 2025 14:44

Instrument :
MSVOA_L
ClientSampleId :
EBR-P03-SC-SS01-20250428

Tgt Ion: 57 Resp: 156355

Ion	Ratio	Lower	Upper
57	100		
41	100.1	77.8	116.8
43	65.0	187.0	280.6#
56	58.7	43.9	65.9

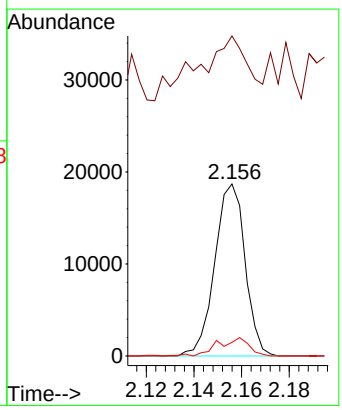


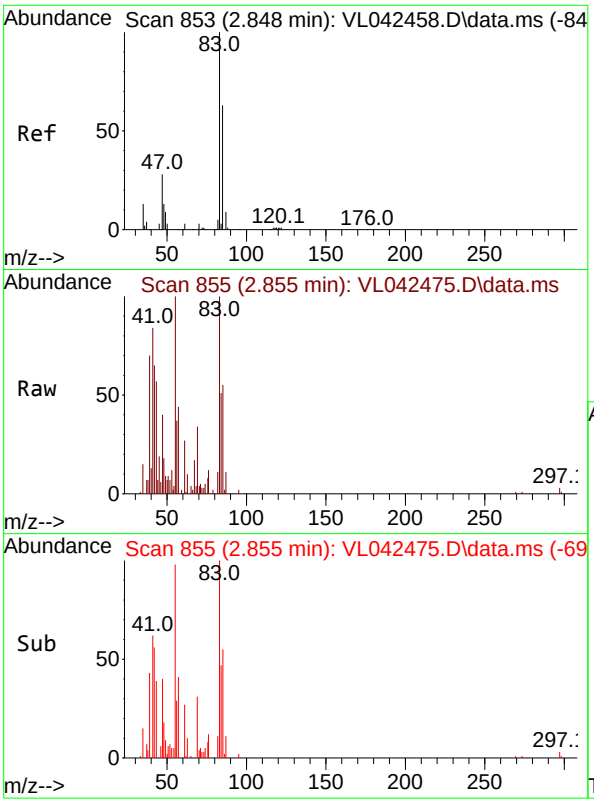


#27
Carbon Disulfide
Concen: 1.444 ppbv
RT: 2.156 min Scan# 639
Delta R.T. 0.010 min
Lab File: VL042475.D
Acq: 05 May 2025 14:44

Tgt Ion: 76 Resp: 16500

Ion	Ratio	Lower	Upper
76	100		
44	824.5	21.0	31.6#
78	11.2	8.6	13.0



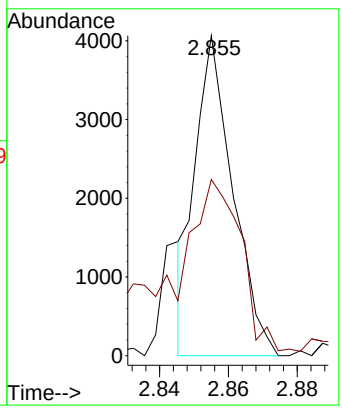


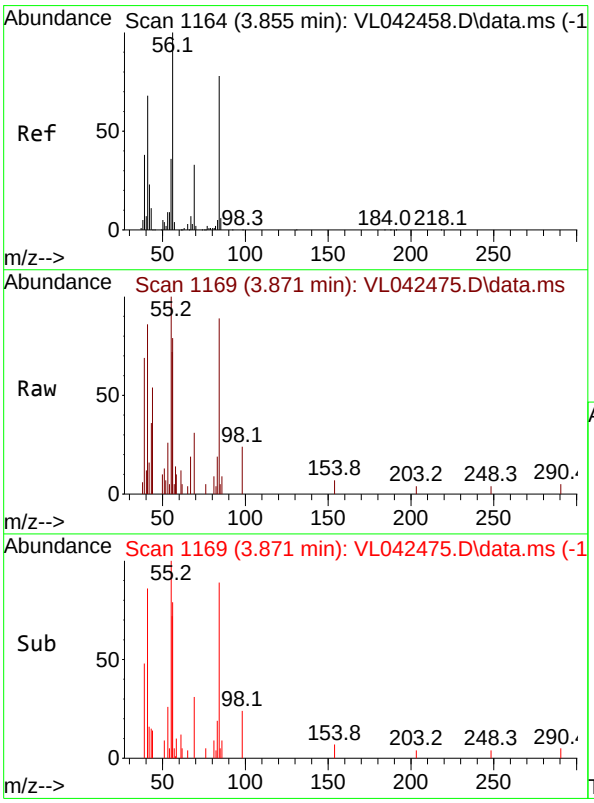
#29
Chloroform
Concen: 0.170 ppbv
RT: 2.855 min Scan# 8
Delta R.T. 0.007 min
Lab File: VL042475.D
Acq: 05 May 2025 14:44

Instrument :
MSVOA_L
ClientSampleId :
EBR-P03-SC-SS01-20250428

Tgt Ion: 83 Resp: 3114

Ion	Ratio	Lower	Upper
83	100		
85	53.5	50.4	75.6

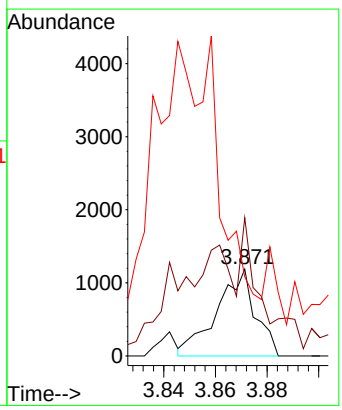


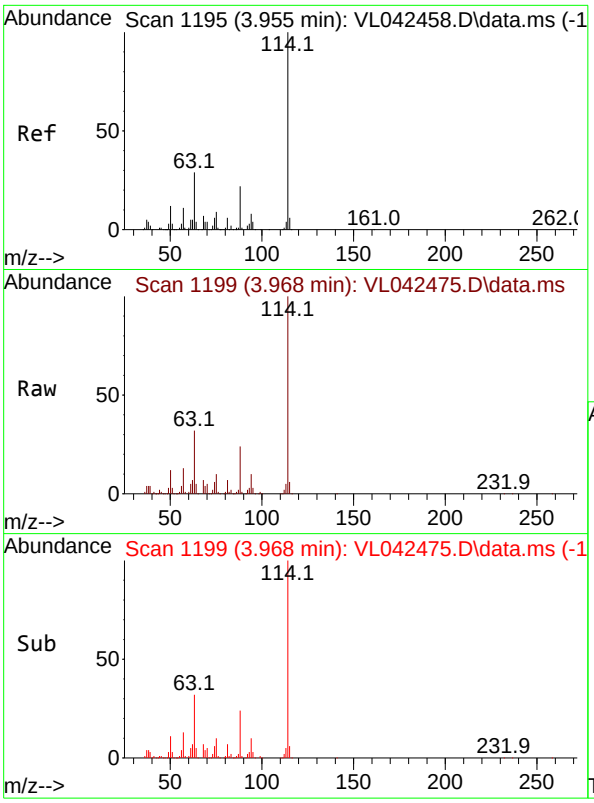


#30
Cyclohexane
Concen: 0.151 ppbv
RT: 3.871 min Scan# 1169
Delta R.T. 0.016 min
Lab File: VL042475.D
Acq: 05 May 2025 14:44

Tgt Ion: 84 Resp: 1233

Ion	Ratio	Lower	Upper
84	100		
56	339.4	98.1	147.1#
41	750.9	65.8	98.8#



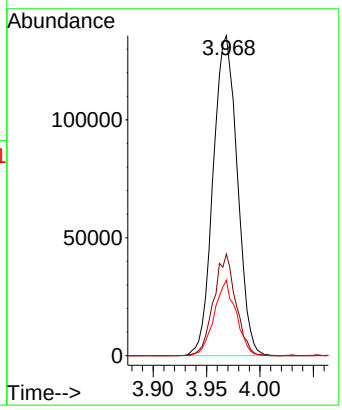


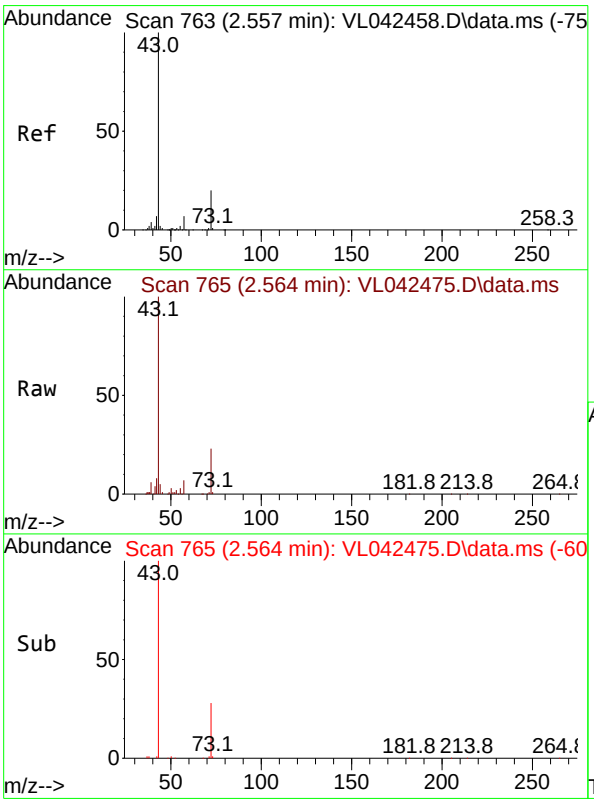
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.968 min Scan# 11
Delta R.T. 0.013 min
Lab File: VL042475.D
Acq: 05 May 2025 14:44

Instrument :
MSVOA_L
ClientSampleId :
EBR-P03-SC-SS01-20250428

Tgt Ion:114 Resp: 213607

Ion	Ratio	Lower	Upper
114	100		
63	29.2	23.1	34.7
88	21.4	16.1	24.1

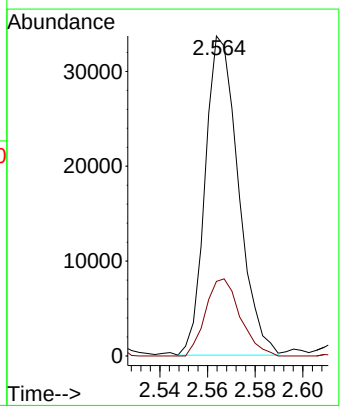


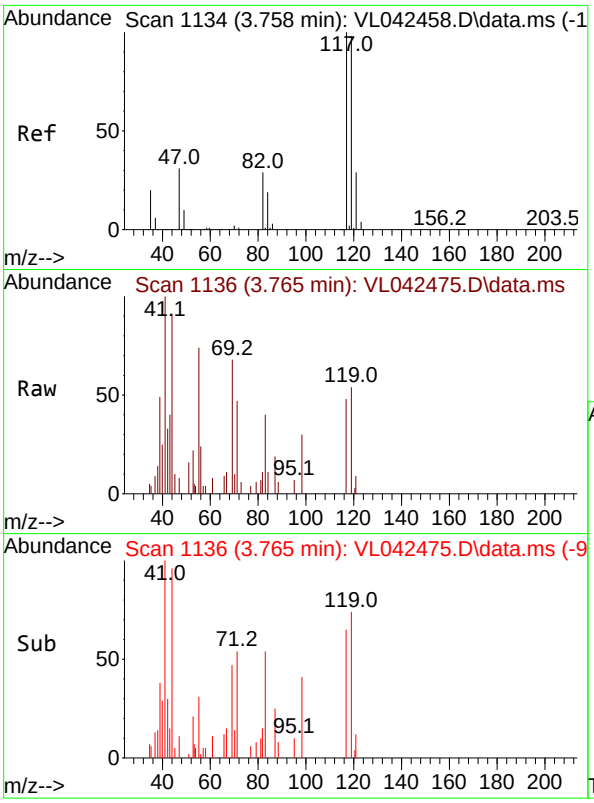


#34
2-Butanone
Concen: 2.103 ppbv
RT: 2.564 min Scan# 765
Delta R.T. 0.007 min
Lab File: VL042475.D
Acq: 05 May 2025 14:44

Tgt Ion: 43 Resp: 32498

Ion	Ratio	Lower	Upper
43	100		
72	25.3	16.7	25.1#



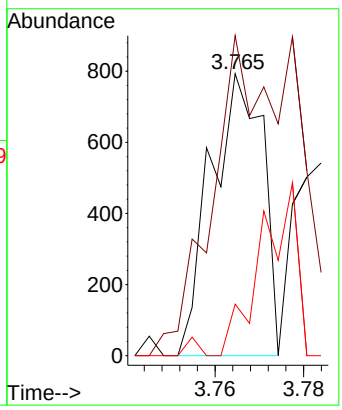


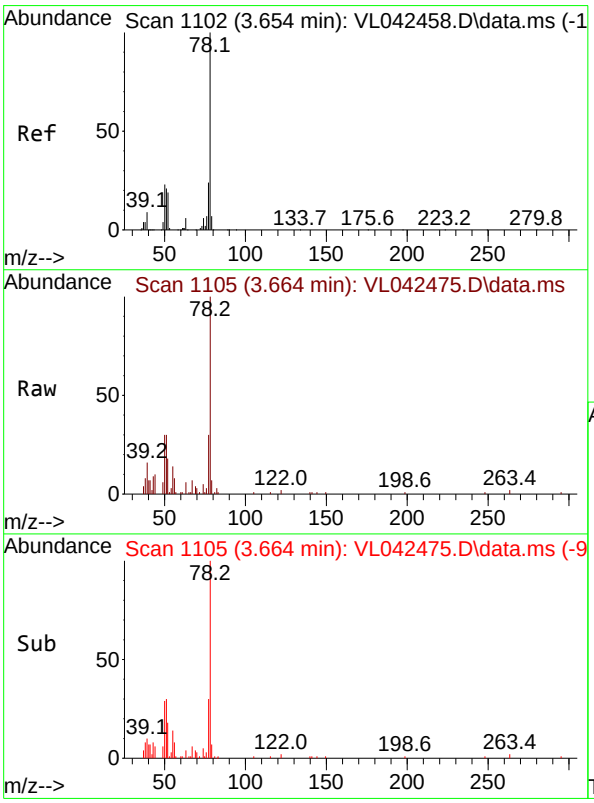
#35
Carbon Tetrachloride
Concen: 0.033 ppbv
RT: 3.765 min Scan# 11
Delta R.T. 0.007 min
Lab File: VL042475.D
Acq: 05 May 2025 14:44

Instrument :
MSVOA_L
ClientSampleId :
EBR-P03-SC-SS01-20250428

Tgt Ion:117 Resp: 647

Ion	Ratio	Lower	Upper
117	100		
119	104.8	78.1	117.1
121	18.3	23.0	34.6#

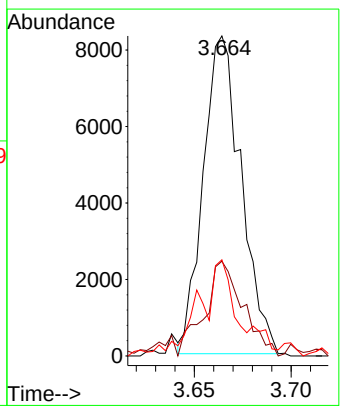


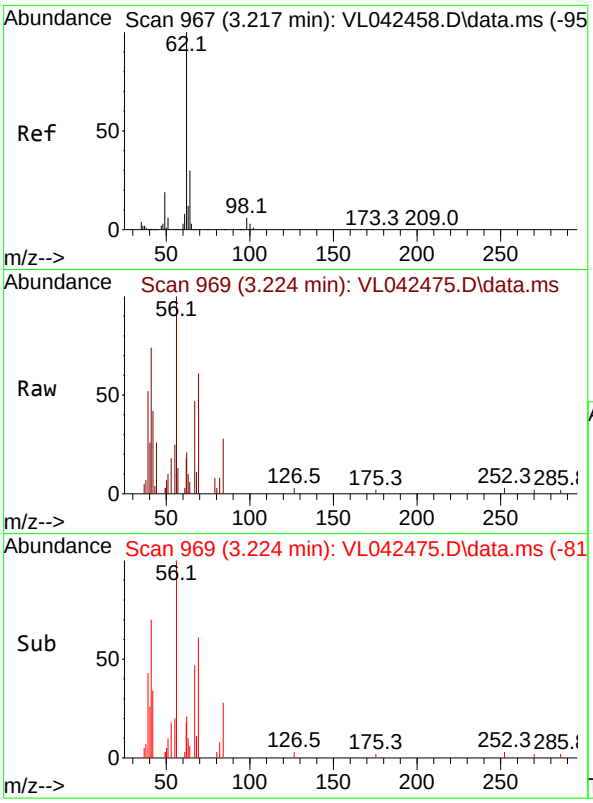


#36
Benzene
Concen: 0.564 ppbv
RT: 3.664 min Scan# 1105
Delta R.T. 0.010 min
Lab File: VL042475.D
Acq: 05 May 2025 14:44

Tgt Ion: 78 Resp: 11366

Ion	Ratio	Lower	Upper
78	100		
77	29.8	18.9	28.3#
50	28.4	18.4	27.6#



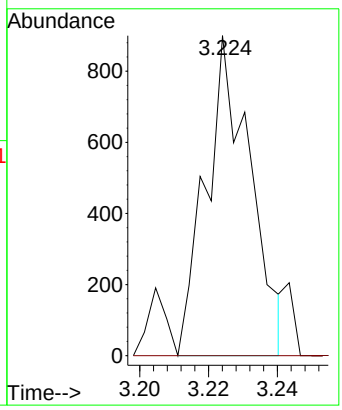


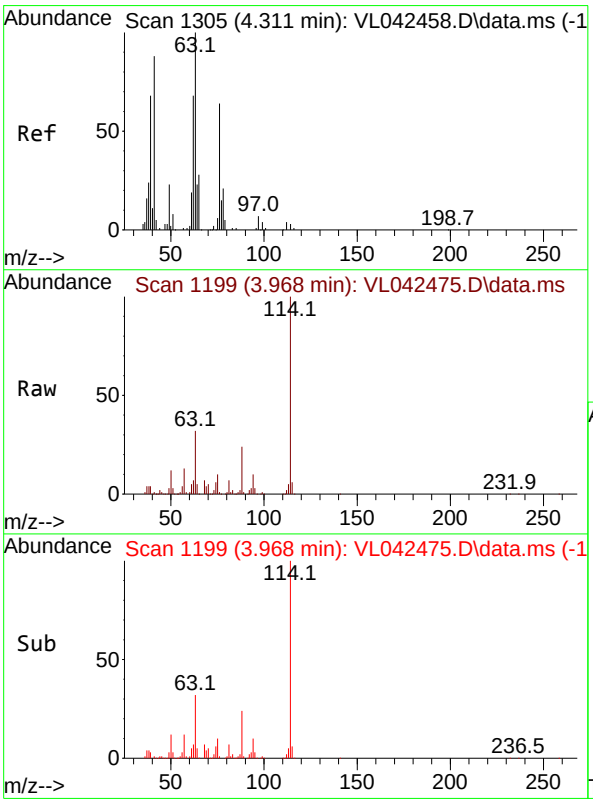
#37
1,2-Dichloroethane
Concen: 0.052 ppbv
RT: 3.224 min Scan# 9
Delta R.T. 0.007 min
Lab File: VL042475.D
Acq: 05 May 2025 14:44

Instrument :
MSVOA_L
ClientSampleId :
EBR-P03-SC-SS01-20250428

Tgt Ion: 62 Resp: 804

Ion	Ratio	Lower	Upper
62	100		
98	0.0	4.3	6.5#

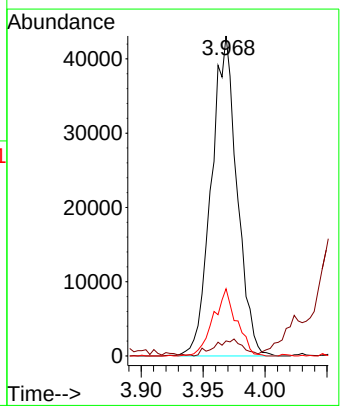


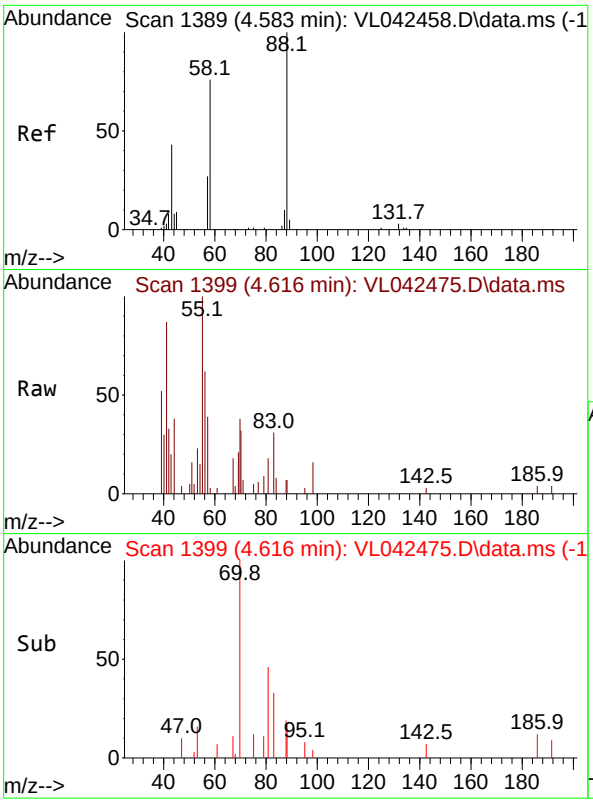


#39
1,2-Dichloropropane
Concen: 8.259 ppbv
RT: 3.968 min Scan# 1199
Delta R.T. -0.343 min
Lab File: VL042475.D
Acq: 05 May 2025 14:44

Tgt Ion: 63 Resp: 62327

Ion	Ratio	Lower	Upper
63	100		
41	4.3	69.8	104.6#
62	21.0	54.3	81.5#



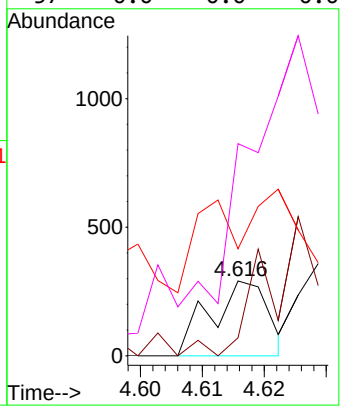


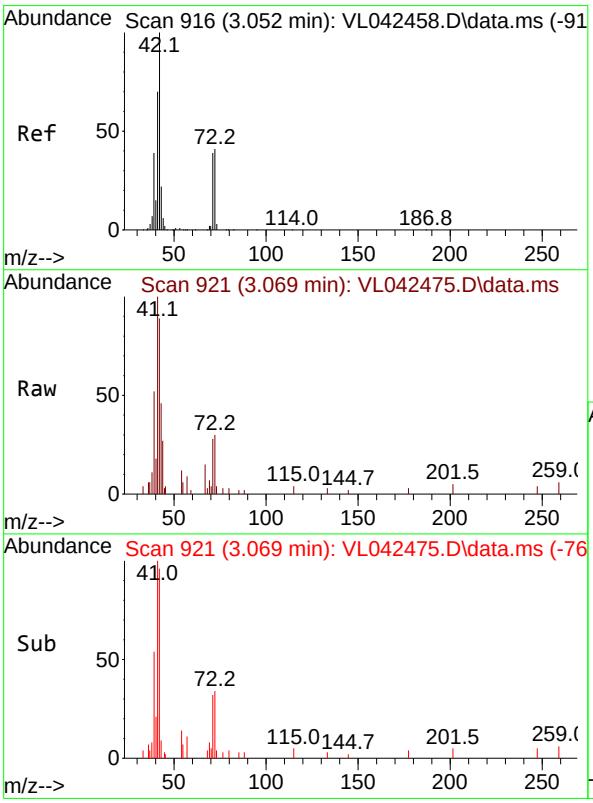
#40
1,4-Dioxane
Concen: 0.053 ppbv
RT: 4.616 min Scan# 1
Delta R.T. 0.033 min
Lab File: VL042475.D
Acq: 05 May 2025 14:44

Instrument :
MSVOA_L
ClientSampleId :
EBR-P03-SC-SS01-20250428

Tgt Ion: 88 Resp: 187

Ion	Ratio	Lower	Upper
88	100		
58	0.0	0.0	0.0
43	0.0	0.0	0.0
57	0.0	0.0	0.0

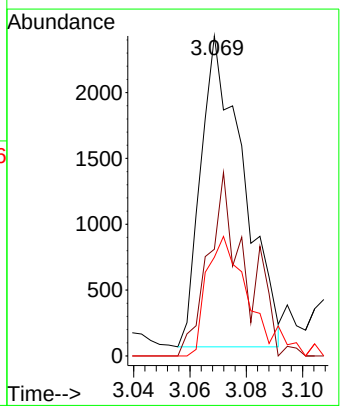


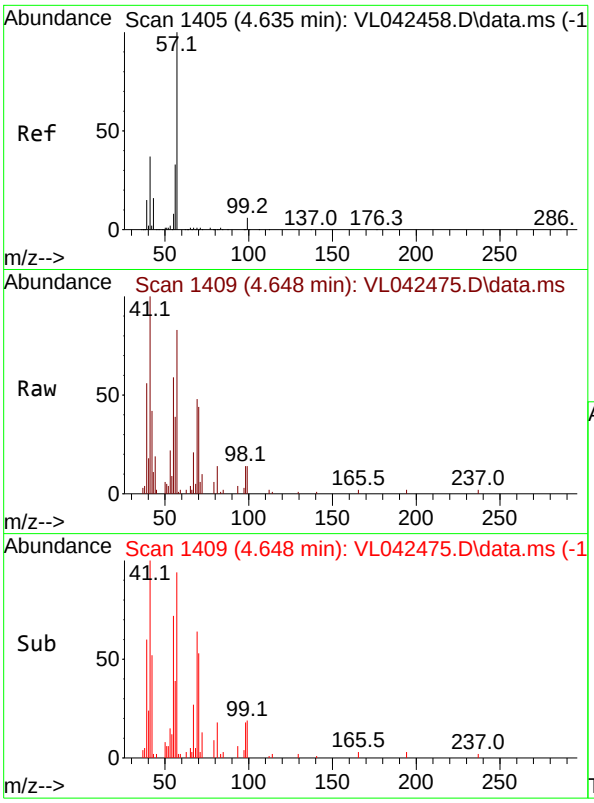


#41
Tetrahydrofuran
Concen: 0.338 ppbv
RT: 3.069 min Scan# 921
Delta R.T. 0.016 min
Lab File: VL042475.D
Acq: 05 May 2025 14:44

Tgt Ion: 42 Resp: 2480

Ion	Ratio	Lower	Upper
42	100		
72	51.9	33.5	50.3#
71	38.7	32.6	49.0



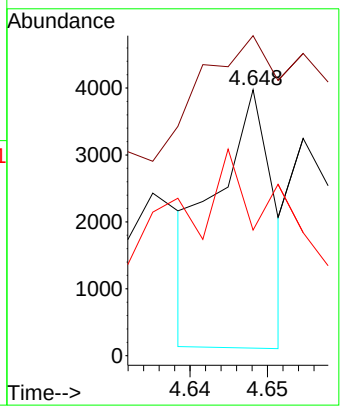


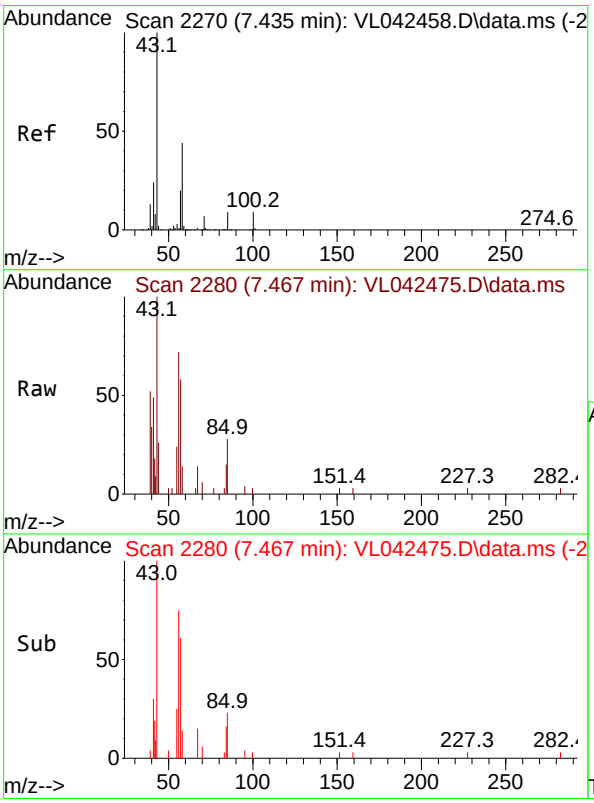
#44
2,2,4-Trimethylpentane
Concen: 0.062 ppbv
RT: 4.648 min Scan# 14
Delta R.T. 0.013 min
Lab File: VL042475.D
Acq: 05 May 2025 14:44

Instrument :
MSVOA_L
ClientSampleId :
EBR-P03-SC-SS01-20250428

Tgt Ion: 57 Resp: 2016

Ion	Ratio	Lower	Upper
57	100		
41	650.2	30.6	45.8#
56	346.0	25.0	37.6#

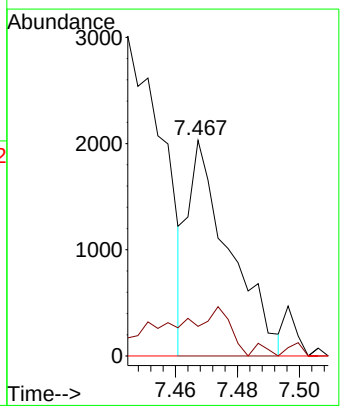


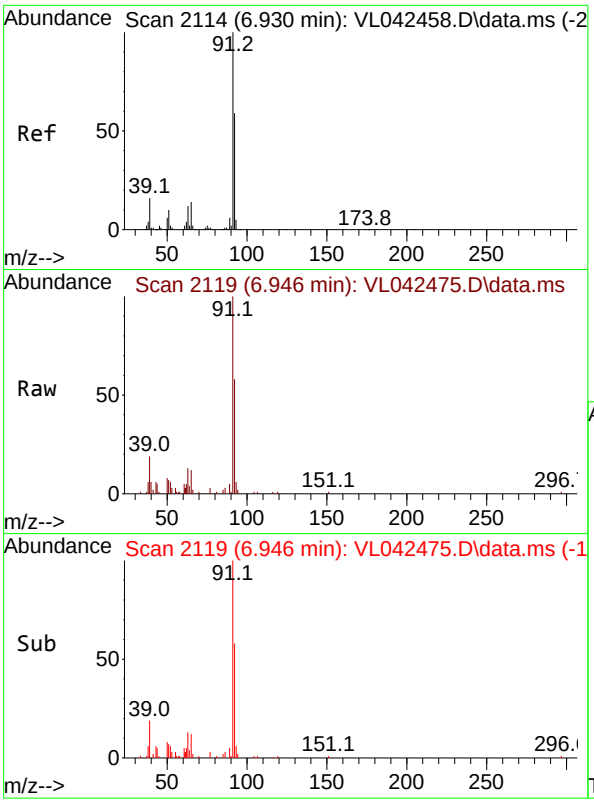


#51
2-Hexanone
Concen: 0.121 ppbv
RT: 7.467 min Scan# 2280
Delta R.T. 0.033 min
Lab File: VL042475.D
Acq: 05 May 2025 14:44

Tgt Ion: 43 Resp: 1886

Ion	Ratio	Lower	Upper
43	100		
58	37.6	37.2	55.8
98	0.0	0.4	0.6#



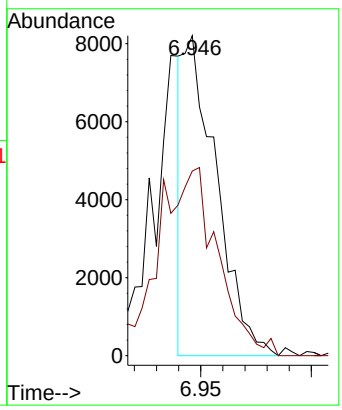


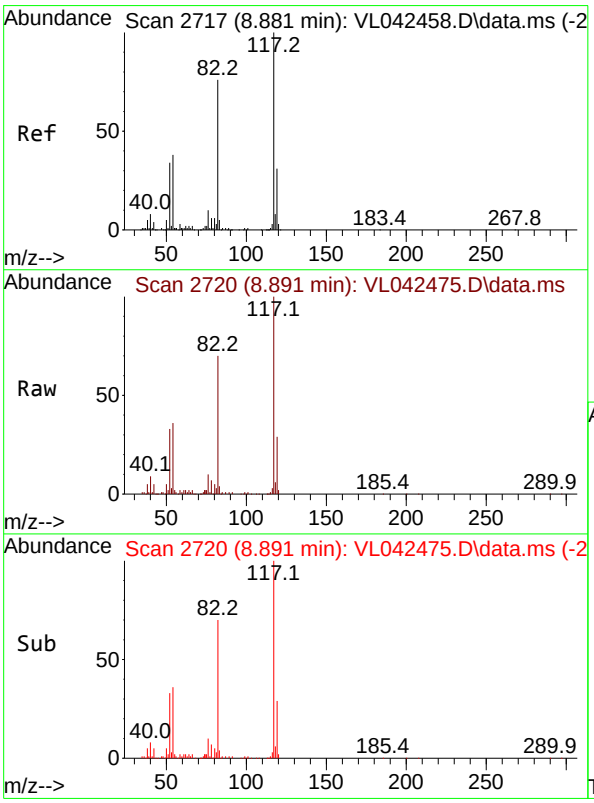
#53
Toluene
Concen: 0.403 ppbv
RT: 6.946 min Scan# 21
Delta R.T. 0.016 min
Lab File: VL042475.D
Acq: 05 May 2025 14:44

Instrument :
MSVOA_L
ClientSampleId :
EBR-P03-SC-SS01-20250428

Tgt Ion: 91 Resp: 8602

Ion	Ratio	Lower	Upper
91	100		
92	106.4	47.9	71.9#

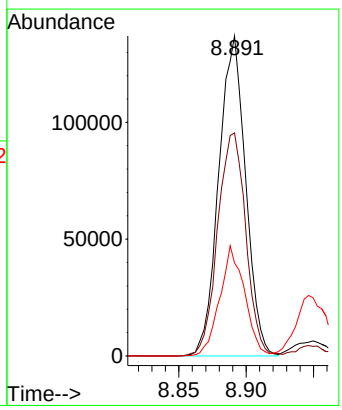


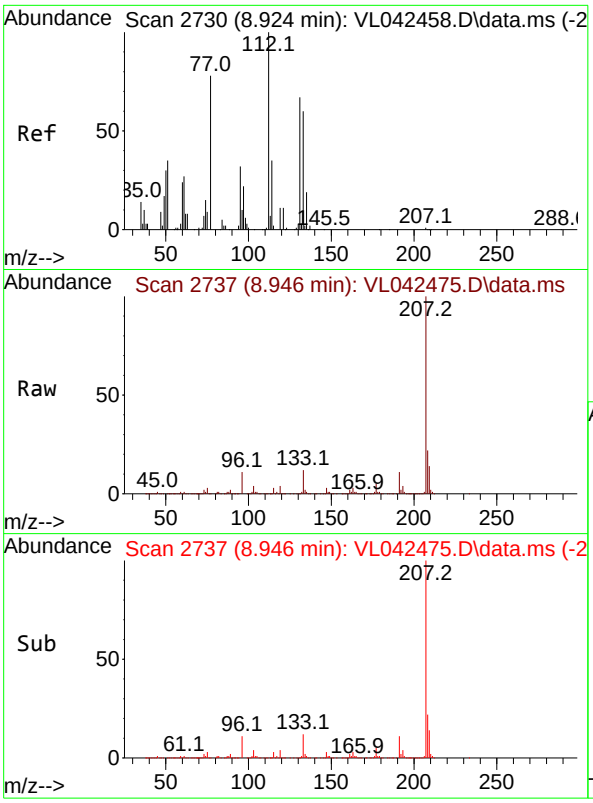


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.891 min Scan# 2720
Delta R.T. 0.010 min
Lab File: VL042475.D
Acq: 05 May 2025 14:44

Tgt Ion:117 Resp: 190161

Ion	Ratio	Lower	Upper
117	100		
82	72.8	63.5	95.3
119	32.1	25.8	38.8



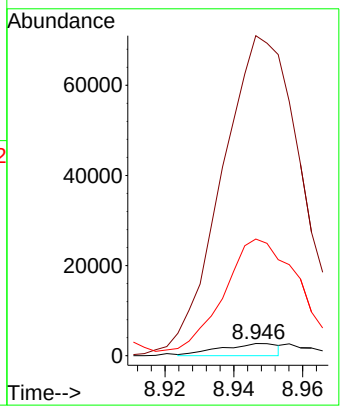


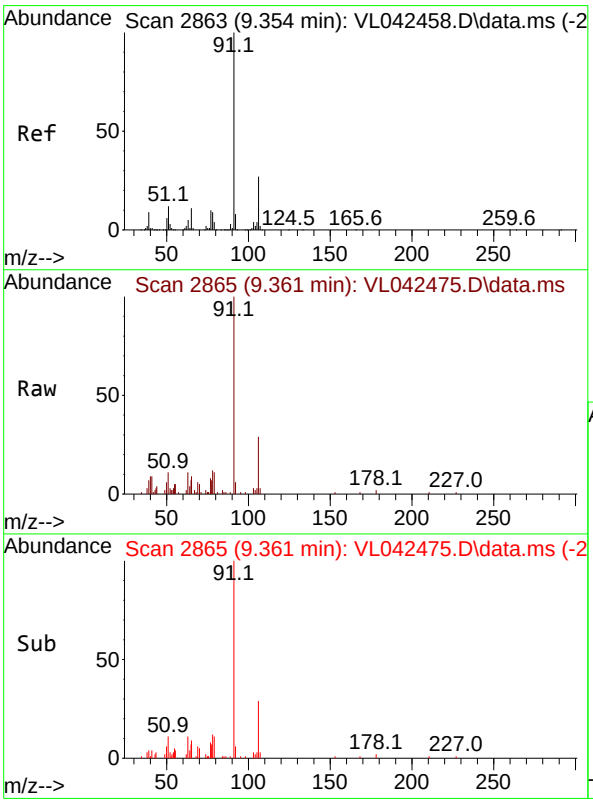
#56
1,1,1,2-Tetrachloroethane
Concen: 0.281 ppbv
RT: 8.946 min Scan# 2
Delta R.T. 0.023 min
Lab File: VL042475.D
Acq: 05 May 2025 14:44

Instrument :
MSVOA_L
ClientSampleId :
EBR-P03-SC-SS01-20250428

Tgt Ion:131 Resp: 3156

Ion	Ratio	Lower	Upper
131	100		
133	3656.9	76.0	114.0#
119	1285.7	46.1	69.1#

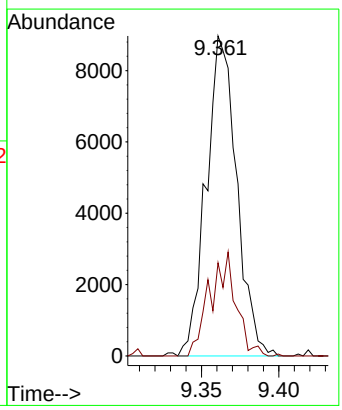


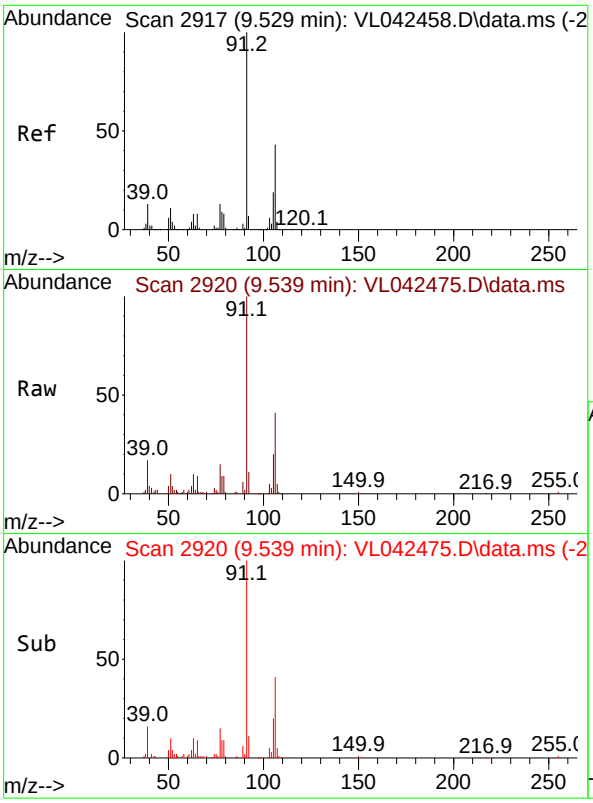


#58
Ethyl Benzene
Concen: 0.386 ppbv
RT: 9.361 min Scan# 2865
Delta R.T. 0.007 min
Lab File: VL042475.D
Acq: 05 May 2025 14:44

Tgt Ion: 91 Resp: 12254

Ion	Ratio	Lower	Upper
91	100		
106	29.1	21.9	32.9



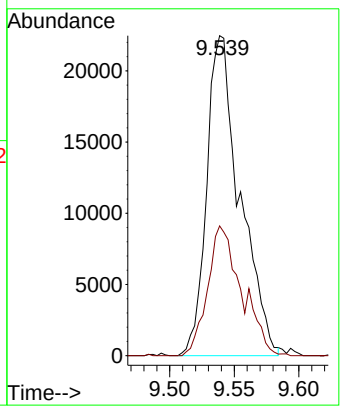


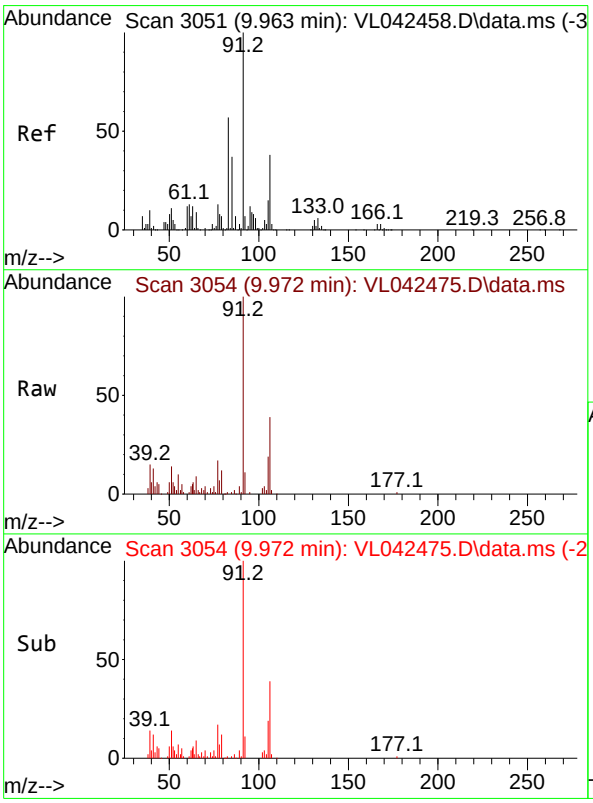
#59
m/p-Xylene
Concen: 1.513 ppbv
RT: 9.539 min Scan# 2
Delta R.T. 0.010 min
Lab File: VL042475.D
Acq: 05 May 2025 14:44

Instrument :
MSVOA_L
ClientSampleId :
EBR-P03-SC-SS01-20250428

Tgt Ion: 91 Resp: 40302

Ion	Ratio	Lower	Upper
91	100		
106	41.4	34.2	51.2

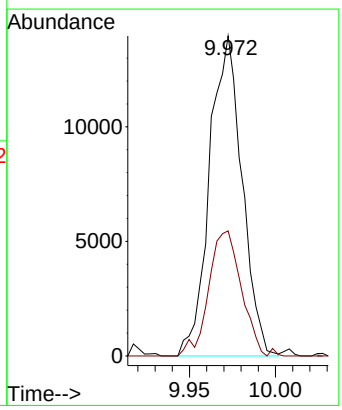


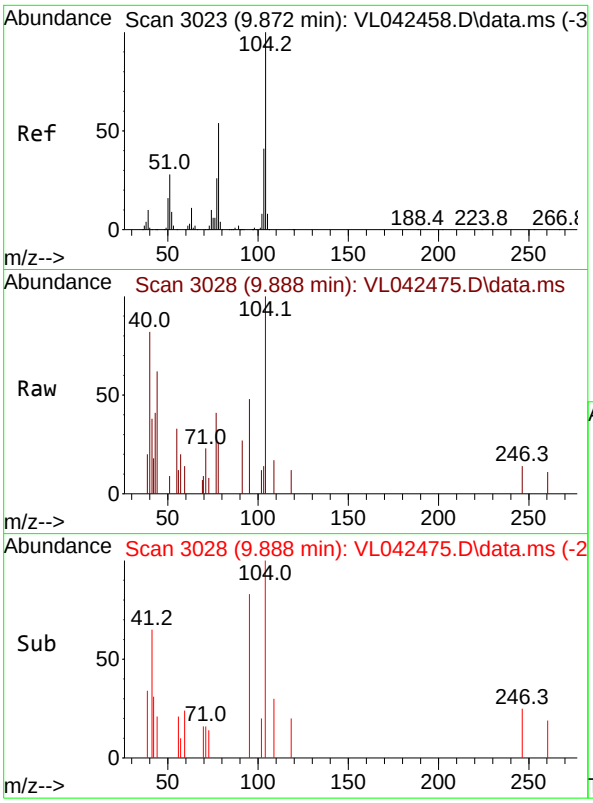


#60
o-Xylene
Concen: 0.688 ppbv
RT: 9.972 min Scan# 3054
Delta R.T. 0.010 min
Lab File: VL042475.D
Acq: 05 May 2025 14:44

Tgt Ion: 91 Resp: 18356

Ion	Ratio	Lower	Upper
91	100		
106	39.5	20.1	60.2



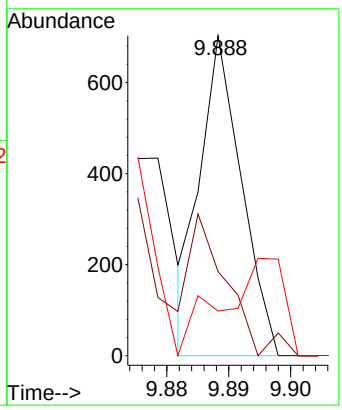


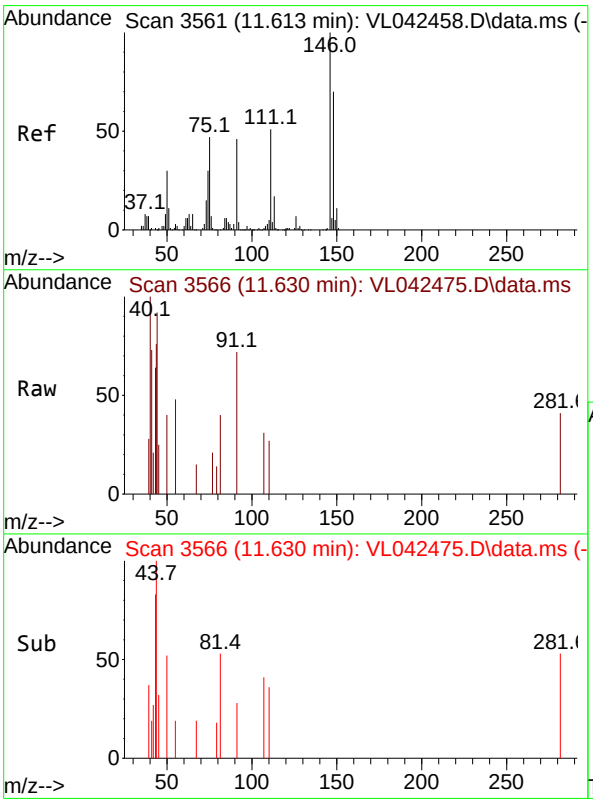
#61
Styrene
Concen: 0.033 ppbv
RT: 9.888 min Scan# 3
Delta R.T. 0.016 min
Lab File: VL042475.D
Acq: 05 May 2025 14:44

Instrument :
MSVOA_L
ClientSampleId :
EBR-P03-SC-SS01-20250428

Tgt Ion:104 Resp: 324

Ion	Ratio	Lower	Upper
104	100		
78	0.0	46.9	70.3#
103	0.0	36.6	55.0#

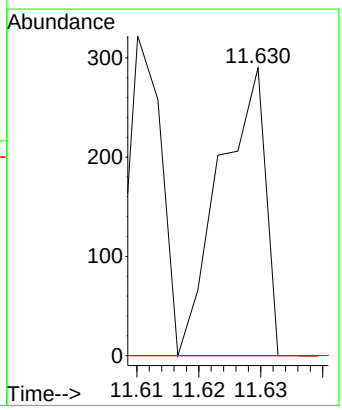


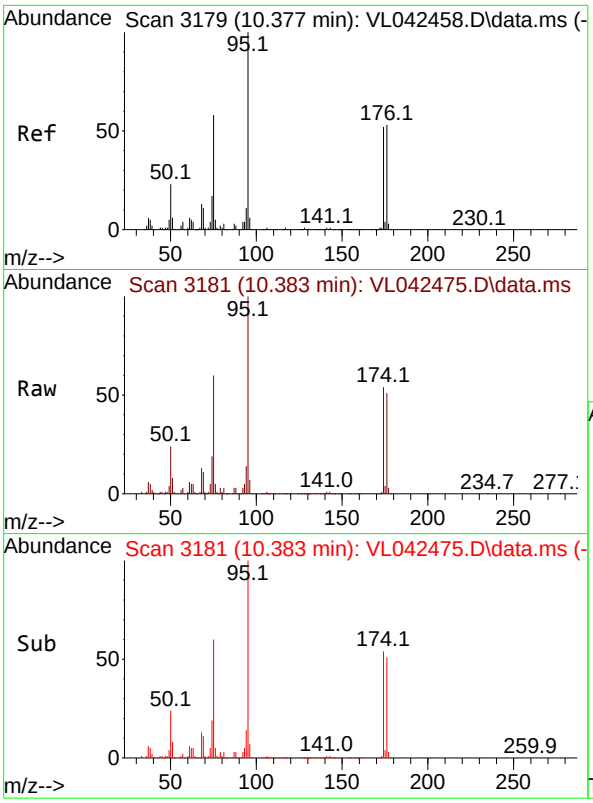


#66
Benzyl Chloride
Concen: 0.037 ppbv
RT: 11.630 min Scan# 3566
Delta R.T. 0.016 min
Lab File: VL042475.D
Acq: 05 May 2025 14:44

Tgt Ion: 91 Resp: 148

Ion	Ratio	Lower	Upper
91	100		
126	0.0	13.3	19.9#
128	0.0	4.2	6.4#



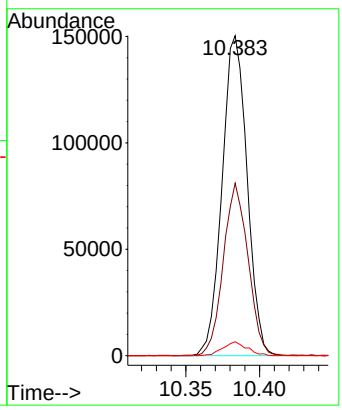


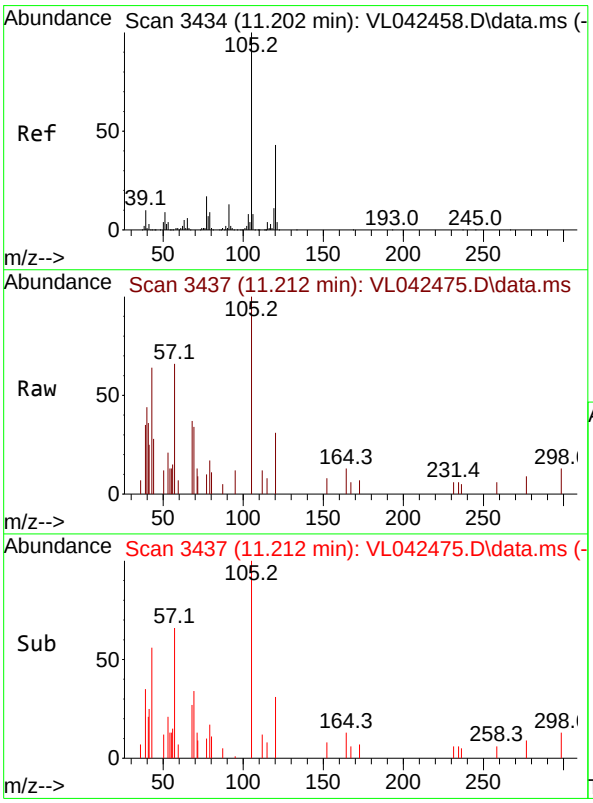
#68
1-Bromo-4-Fluorobenzene
Concen: 10.057 ppbv
RT: 10.383 min Scan# 3
Delta R.T. 0.007 min
Lab File: VL042475.D
Acq: 05 May 2025 14:44

Instrument :
MSVOA_L
ClientSampleId :
EBR-P03-SC-SS01-20250428

Tgt Ion: 95 Resp: 177304

Ion	Ratio	Lower	Upper
95	100		
174	53.3	42.7	64.1
175	4.2	3.6	5.4

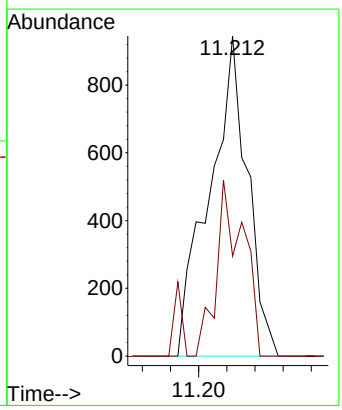


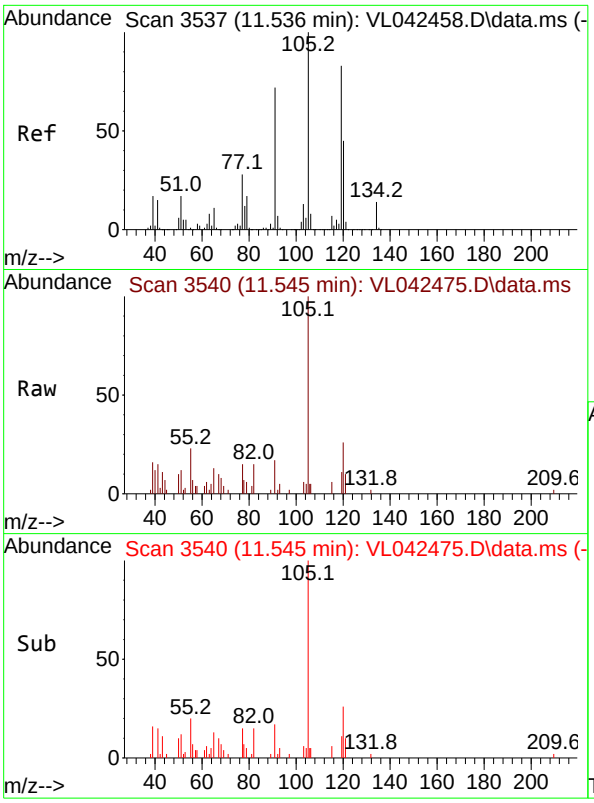


#73
1,3,5-Trimethylbenzene
Concen: 0.032 ppbv
RT: 11.212 min Scan# 3437
Delta R.T. 0.010 min
Lab File: VL042475.D
Acq: 05 May 2025 14:44

Tgt Ion:105 Resp: 882

Ion	Ratio	Lower	Upper
105	100		
120	31.2	34.4	51.6#



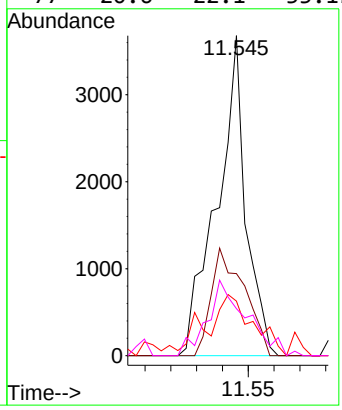


#74
1,2,4-Trimethylbenzene
Concen: 0.085 ppbv
RT: 11.545 min Scan# 3
Delta R.T. 0.010 min
Lab File: VL042475.D
Acq: 05 May 2025 14:44

Instrument :
MSVOA_L
ClientSampleId :
EBR-P03-SC-SS01-20250428

Tgt Ion:105 Resp: 2859

Ion	Ratio	Lower	Upper
105	100		
120	24.5	36.1	54.1#
91	14.7	57.6	86.4#
77	20.6	22.1	33.1#



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050525\
Data File : VL042476.D
Acq On : 05 May 2025 15:18
Operator : SY/MD
Sample : Q1927-01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
EBR-P06-SC-IA01-20250428

Quant Time: May 06 01:42:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri May 02 03:16:31 2025
Response via : Initial Calibration

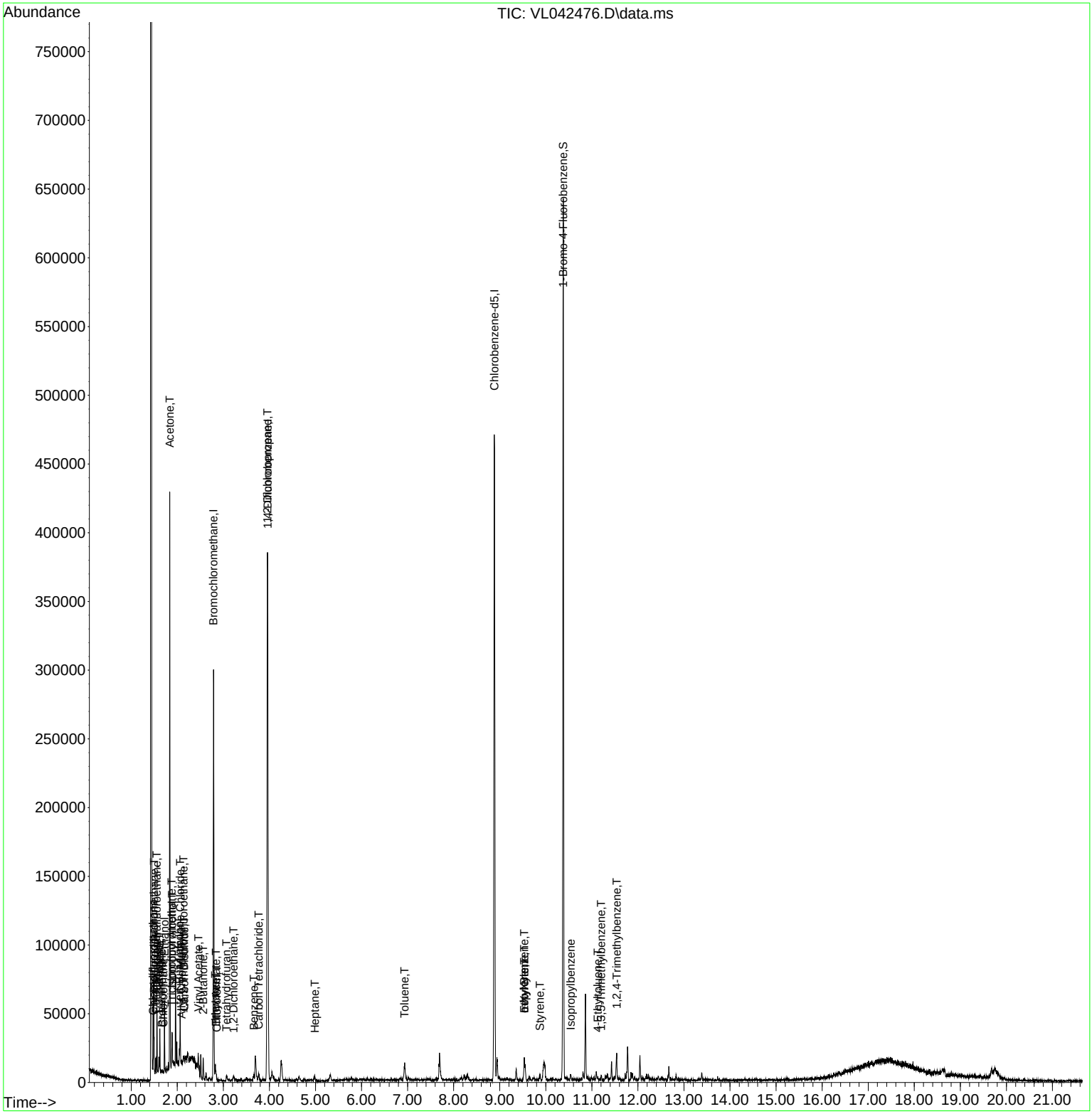
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.787	49	74533	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.962	114	204912	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.881	117	170942	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.377	95	159284	10.050	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 100.500%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.499	85	5767	0.468	ppbv		96
3) Chlorodifluoromethane	1.476	51	6487	0.497	ppbv	#	82
4) Chloromethane	1.534	50	3033	0.588	ppbv		99
6) Bromomethane	1.667	94	99	0.040	ppbv		94
7) Chloroethane	1.696	64	157	0.082	ppbv		99
8) Dichlorotetrafluoroethane	1.554	85	352	0.035	ppbv		90
9) Propene	1.622	41	3050	0.715	ppbv		100
10) Heptane	4.985	43	571	0.052	ppbv	#	50
11) Trichlorofluoromethane	1.877	101	2879	0.253	ppbv	#	81
12) 1,1,2-Trichlorotrifluo...	2.136	101	394	0.043	ppbv	#	16
13) Ethanol	1.722	45	15590	18.011	ppbv	#	37
15) Acetone	1.835	43	173519	12.753	ppbv		99
16) 1,3-Butadiene	1.602	39	1688	0.281	ppbv	#	41
17) tert-Butyl alcohol	2.046	59	3280	0.274	ppbv	#	82
19) Isopropyl Alcohol	1.887	45	9588	1.273	ppbv	#	1
20) Methylene Chloride	2.062	84	5214	1.275	ppbv		95
21) Allyl Chloride	2.094	41	295	0.034	ppbv	#	21
23) Vinyl Acetate	2.457	43	9304	0.717	ppbv	#	67
25) Ethyl Acetate	2.839	43	2450	0.112	ppbv	#	84
26) Hexane	2.822	57	1610	0.170	ppbv	#	75
27) Carbon Disulfide	2.149	76	636	0.057	ppbv	#	1
29) Chloroform	2.855	83	552	0.031	ppbv	#	71
34) 2-Butanone	2.564	43	9066	0.612	ppbv	#	88
35) Carbon Tetrachloride	3.764	117	1135	0.061	ppbv	#	90
36) Benzene	3.664	78	1067	0.055	ppbv	#	89
37) 1,2-Dichloroethane	3.224	62	464	0.031	ppbv	#	96
39) 1,2-Dichloropropane	3.955	63	59653	8.240	ppbv	#	21
41) Tetrahydrofuran	3.065	42	534	0.076	ppbv	#	80
53) Toluene	6.936	91	4623	0.226	ppbv	#	44
58) Ethyl Benzene	9.532	91	6759	0.237	ppbv		91
59) m/p-Xylene	9.532	91	6759	0.282	ppbv	#	78
60) o-Xylene	9.532	91	6759	0.282	ppbv		74
61) Styrene	9.872	104	835	0.093	ppbv	#	25
62) Isopropylbenzene	10.542	105	2072	0.060	ppbv	#	84
72) 4-Ethyltoluene	11.131	105	859	0.030	ppbv	#	62
73) 1,3,5-Trimethylbenzene	11.202	105	814	0.033	ppbv		88
74) 1,2,4-Trimethylbenzene	11.539	105	4777	0.159	ppbv	#	59

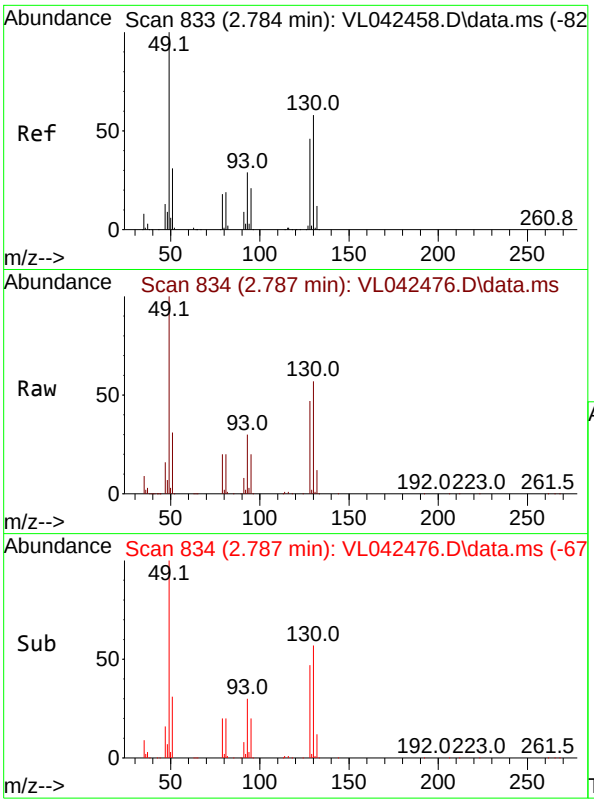
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050525\
Data File : VL042476.D
Acq On : 05 May 2025 15:18
Operator : SY/MD
Sample : Q1927-01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
EBR-P06-SC-IA01-20250428

Quant Time: May 06 01:42:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri May 02 03:16:31 2025
Response via : Initial Calibration



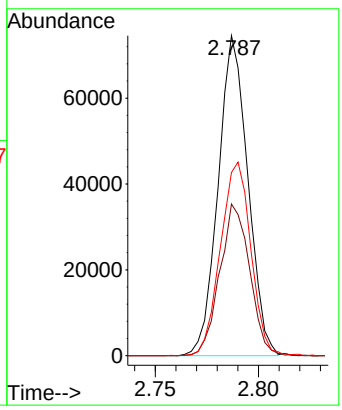


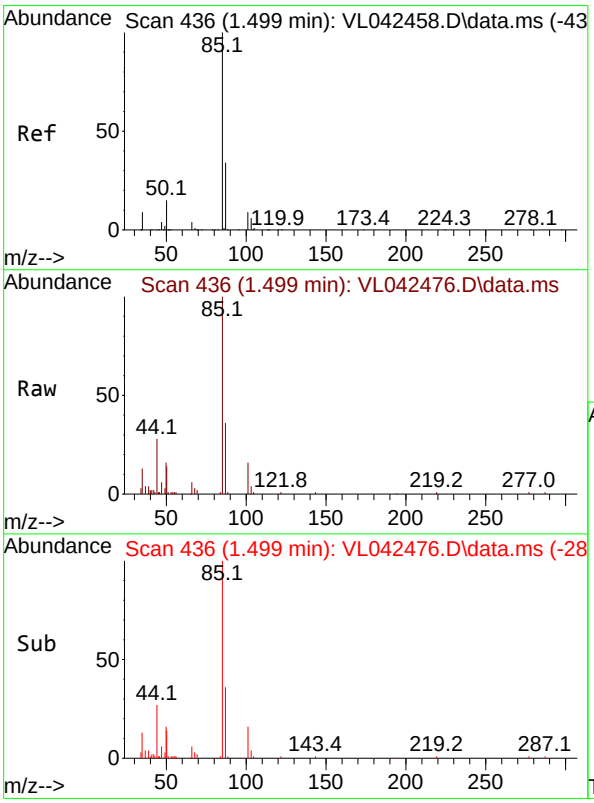
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042476.D
Acq: 05 May 2025 15:18

Instrument :
MSVOA_L
ClientSampleId :
EBR-P06-SC-IA01-20250428

Tgt Ion: 49 Resp: 74533

Ion	Ratio	Lower	Upper
49	100		
128	47.7	23.3	69.9
130	62.0	29.5	88.6

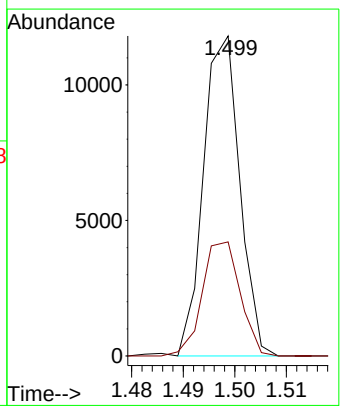


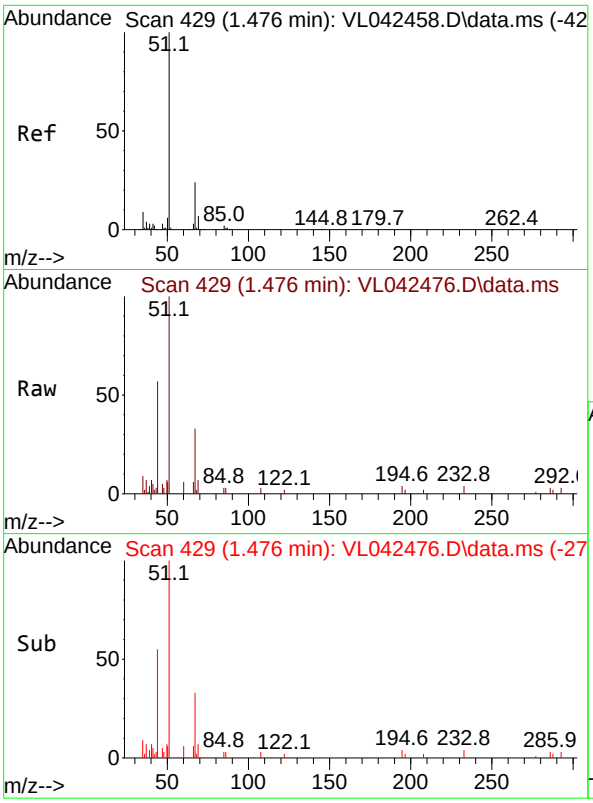


#2
Dichlorodifluoromethane
Concen: 0.468 ppbv
RT: 1.499 min Scan# 436
Delta R.T. -0.000 min
Lab File: VL042476.D
Acq: 05 May 2025 15:18

Tgt Ion: 85 Resp: 5767

Ion	Ratio	Lower	Upper
85	100		
87	35.6	26.9	40.3



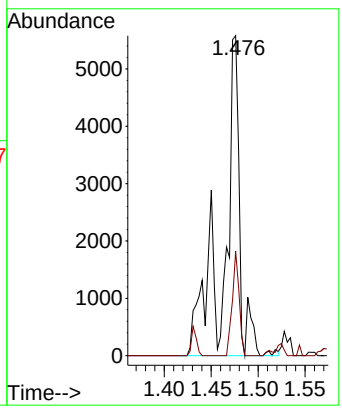


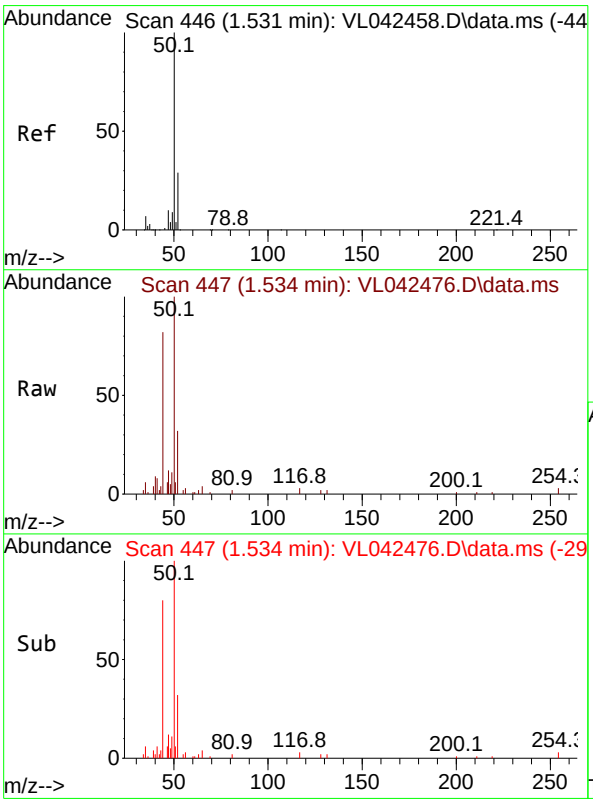
#3
Chlorodifluoromethane
Concen: 0.497 ppbv
RT: 1.476 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042476.D
Acq: 05 May 2025 15:18

Instrument :
MSVOA_L
ClientSampleId :
EBR-P06-SC-IA01-20250428

Tgt Ion: 51 Resp: 6487

Ion	Ratio	Lower	Upper
51	100		
67	14.4	18.4	27.6#

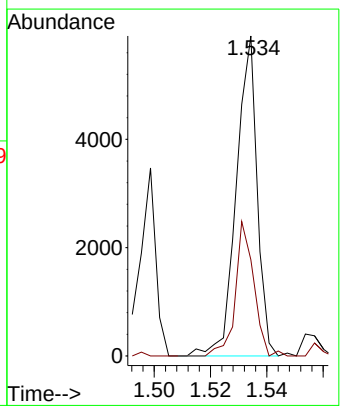


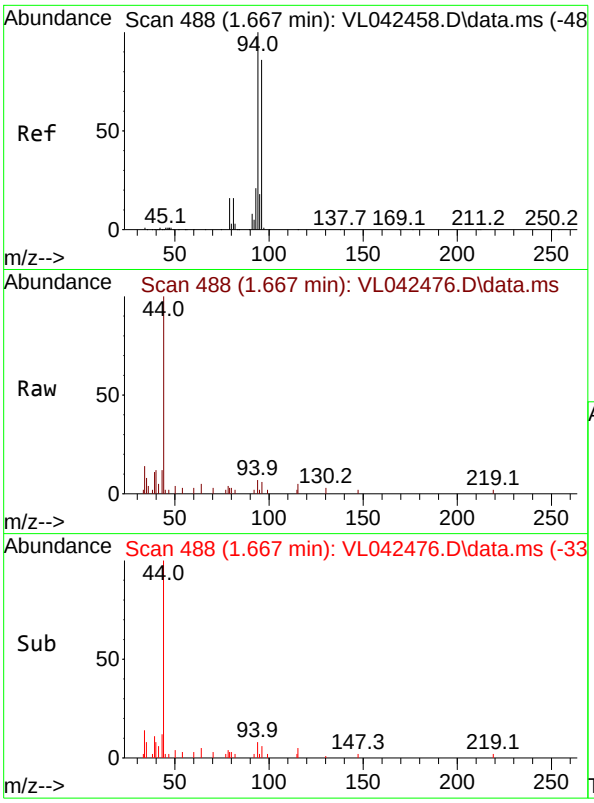


#4
Chloromethane
Concen: 0.588 ppbv
RT: 1.534 min Scan# 447
Delta R.T. 0.003 min
Lab File: VL042476.D
Acq: 05 May 2025 15:18

Tgt Ion: 50 Resp: 3033

Ion	Ratio	Lower	Upper
50	100		
52	30.1	23.5	35.3



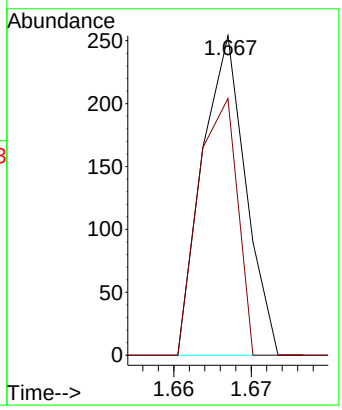


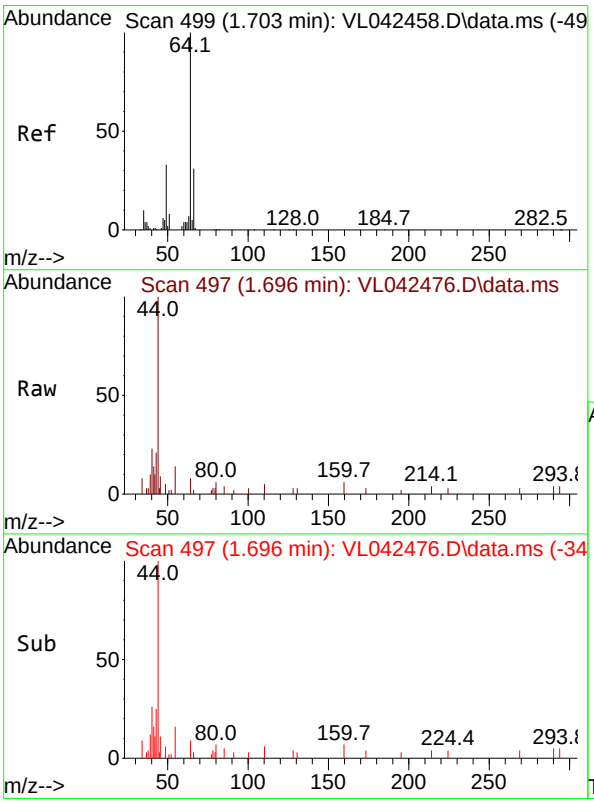
#6
Bromomethane
Concen: 0.040 ppbv
RT: 1.667 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042476.D
Acq: 05 May 2025 15:18

Instrument :
MSVOA_L
ClientSampleId :
EBR-P06-SC-IA01-20250428

Tgt Ion: 94 Resp: 99

Ion	Ratio	Lower	Upper
94	100		
96	80.3	68.8	103.2

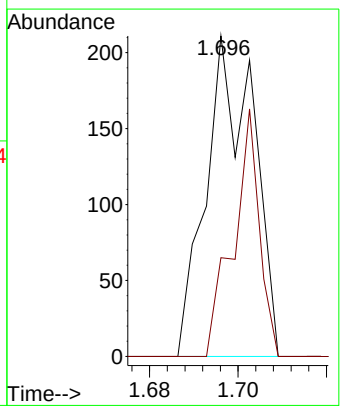


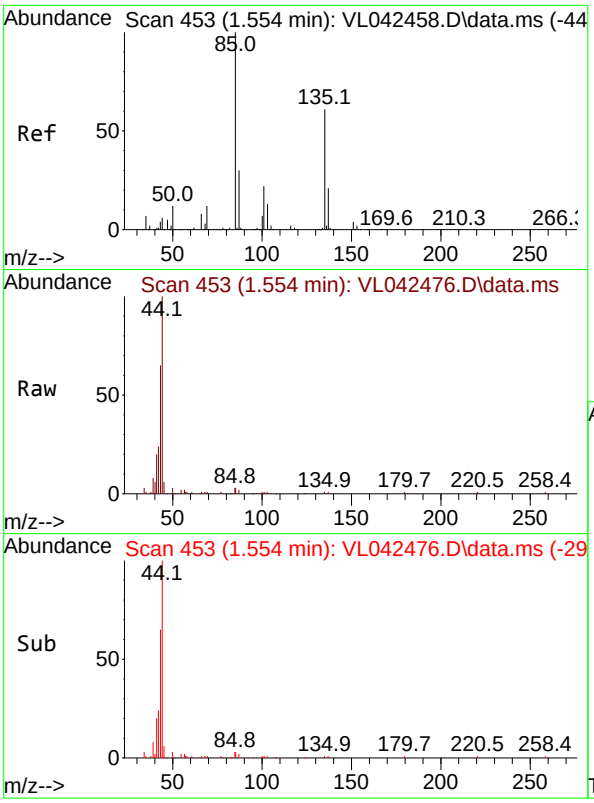


#7
Chloroethane
Concen: 0.082 ppbv
RT: 1.696 min Scan# 497
Delta R.T. -0.006 min
Lab File: VL042476.D
Acq: 05 May 2025 15:18

Tgt Ion: 64 Resp: 157

Ion	Ratio	Lower	Upper
64	100		
66	30.8	25.0	37.4



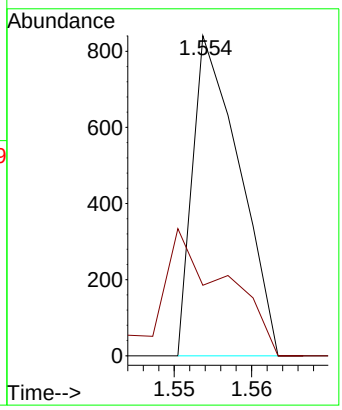


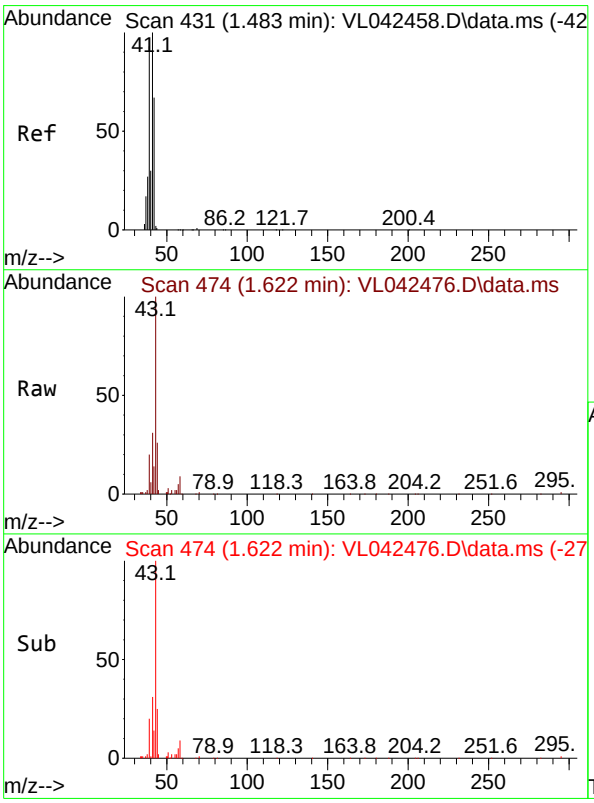
#8
Dichlorotetrafluoroethane
Concen: 0.035 ppbv
RT: 1.554 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042476.D
Acq: 05 May 2025 15:18

Instrument :
MSVOA_L
ClientSampleId :
EBR-P06-SC-IA01-20250428

Tgt Ion: 85 Resp: 352

Ion	Ratio	Lower	Upper
85	100		
135	54.5	49.8	74.8

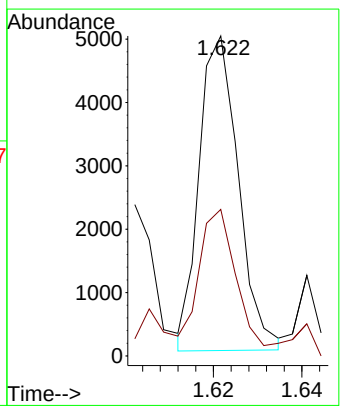


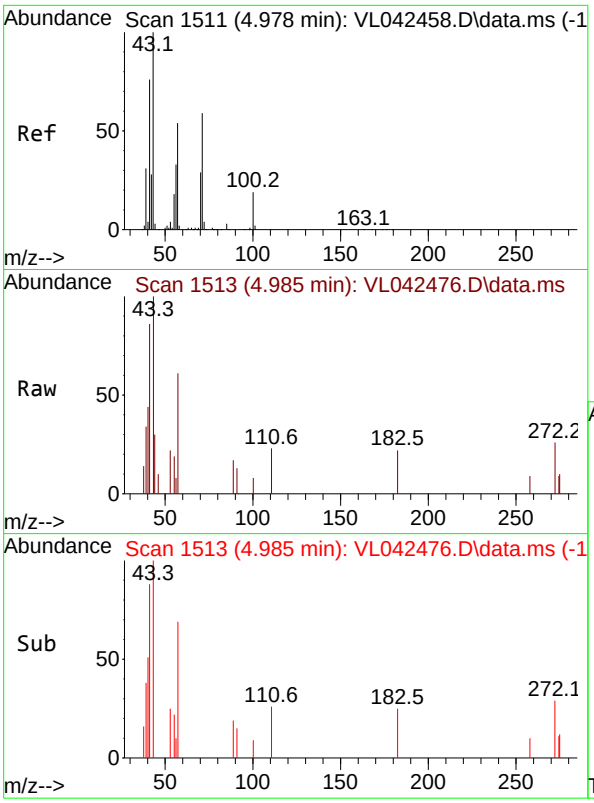


#9
Propene
Concen: 0.715 ppbv
RT: 1.622 min Scan# 474
Delta R.T. 0.139 min
Lab File: VL042476.D
Acq: 05 May 2025 15:18

Tgt Ion: 41 Resp: 3050

Ion	Ratio	Lower	Upper
41	100		
42	68.0	54.3	81.5



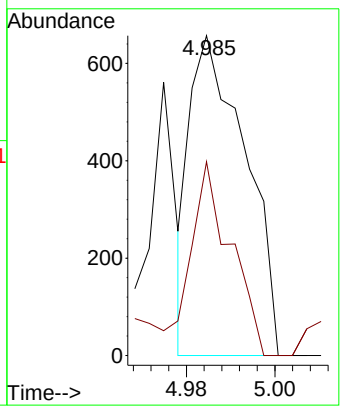


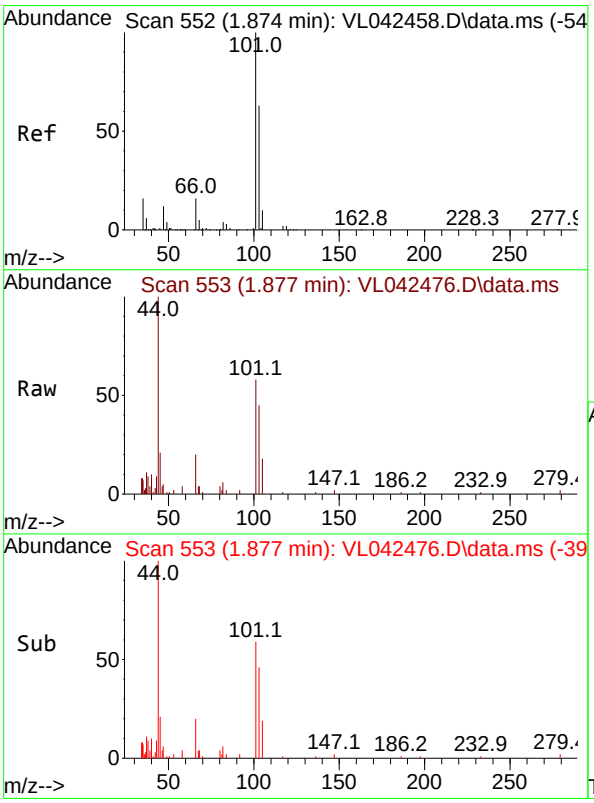
#10
Heptane
Concen: 0.052 ppbv
RT: 4.985 min Scan# 1
Delta R.T. 0.006 min
Lab File: VL042476.D
Acq: 05 May 2025 15:18

Instrument :
MSVOA_L
ClientSampleId :
EBR-P06-SC-IA01-20250428

Tgt Ion: 43 Resp: 571

Ion	Ratio	Lower	Upper
43	100		
57	87.7	41.8	62.8#

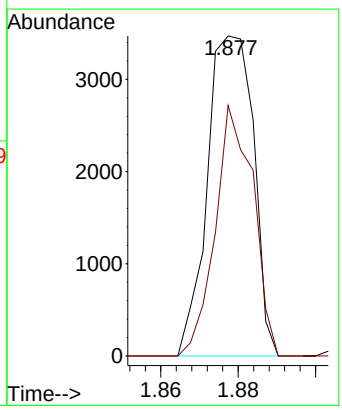


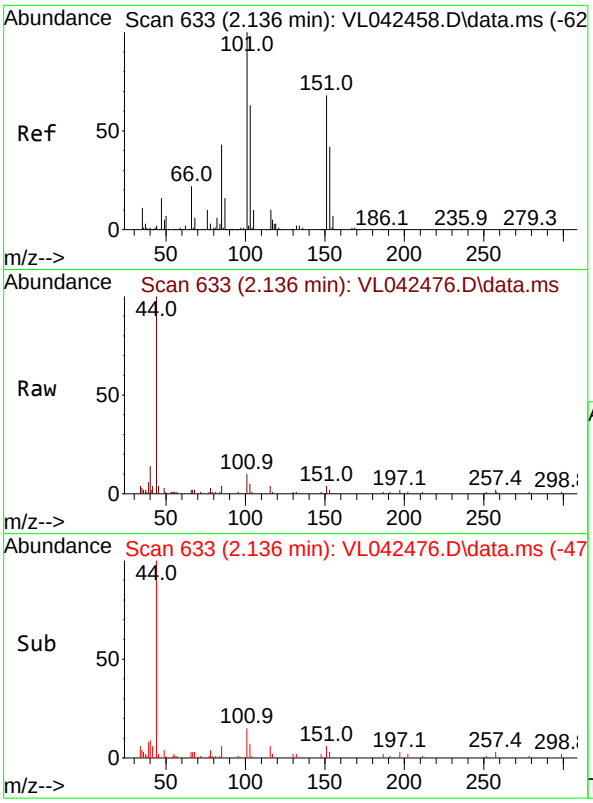


#11
Trichlorofluoromethane
Concen: 0.253 ppbv
RT: 1.877 min Scan# 553
Delta R.T. 0.003 min
Lab File: VL042476.D
Acq: 05 May 2025 15:18

Tgt Ion:101 Resp: 2879

Ion	Ratio	Lower	Upper
101	100		
103	78.3	50.6	76.0#



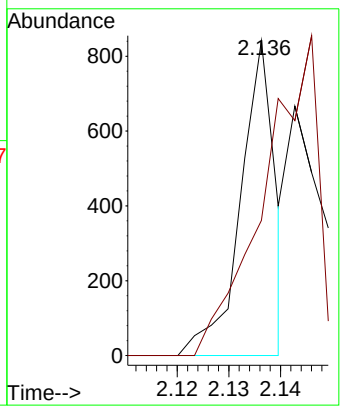


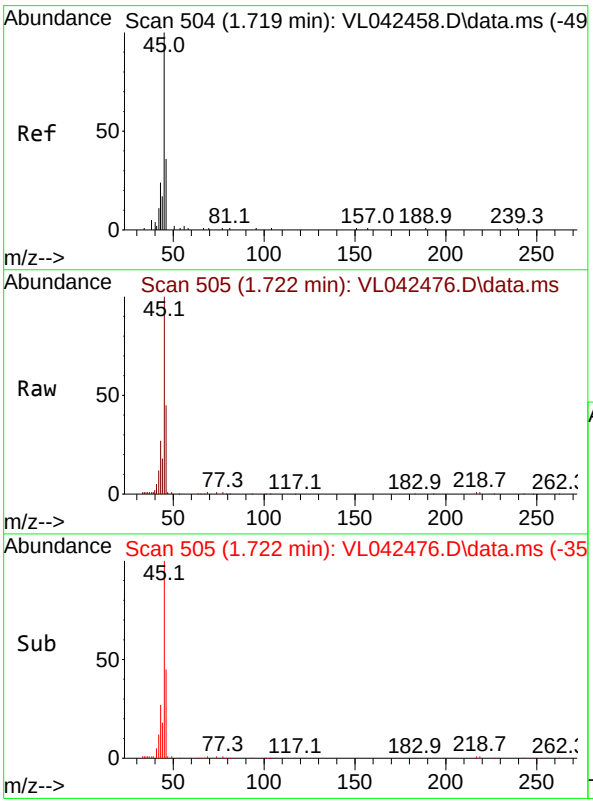
#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.043 ppbv
RT: 2.136 min Scan# 6
Delta R.T. -0.000 min
Lab File: VL042476.D
Acq: 05 May 2025 15:18

Instrument :
MSVOA_L
ClientSampleId :
EBR-P06-SC-IA01-20250428

Tgt Ion:101 Resp: 394

Ion	Ratio	Lower	Upper
101	100		
151	0.0	54.6	82.0#

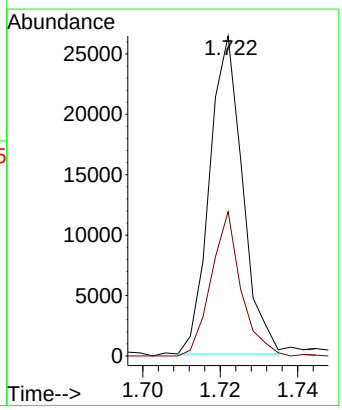


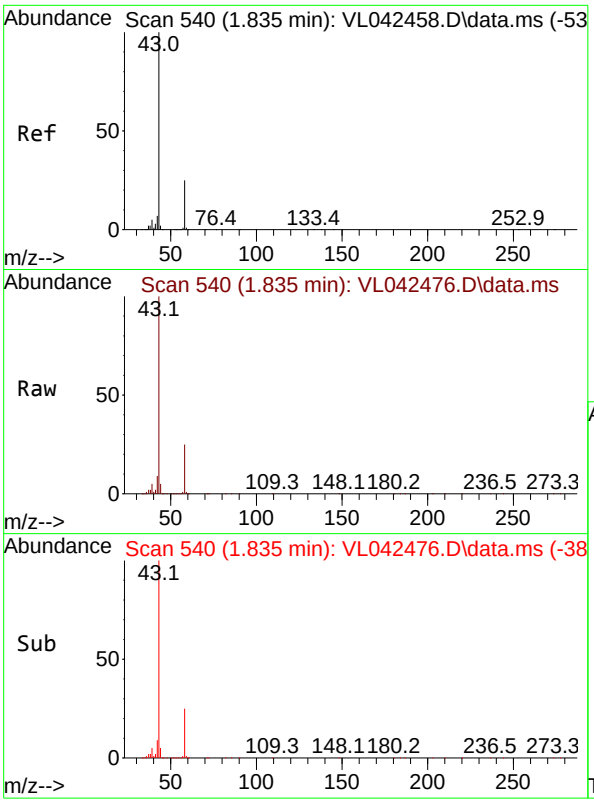


#13
Ethanol
Concen: 18.011 ppbv
RT: 1.722 min Scan# 505
Delta R.T. 0.003 min
Lab File: VL042476.D
Acq: 05 May 2025 15:18

Tgt Ion: 45 Resp: 15590

Ion	Ratio	Lower	Upper
45	100		
46	0.0	15.3	61.1#



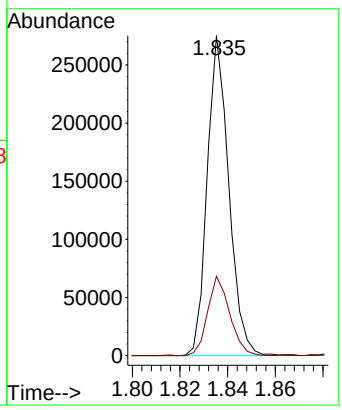


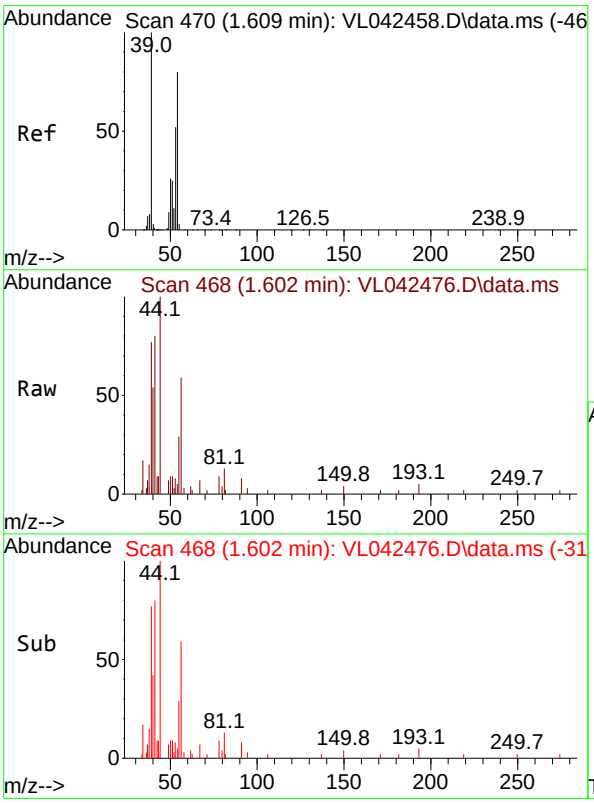
#15
Acetone
Concen: 12.753 ppbv
RT: 1.835 min Scan# 54
Delta R.T. -0.000 min
Lab File: VL042476.D
Acq: 05 May 2025 15:18

Instrument :
MSVOA_L
ClientSampleId :
EBR-P06-SC-IA01-20250428

Tgt Ion: 43 Resp: 173519

Ion	Ratio	Lower	Upper
43	100		
58	25.5	19.8	29.8

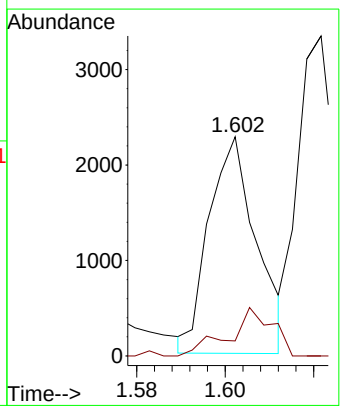


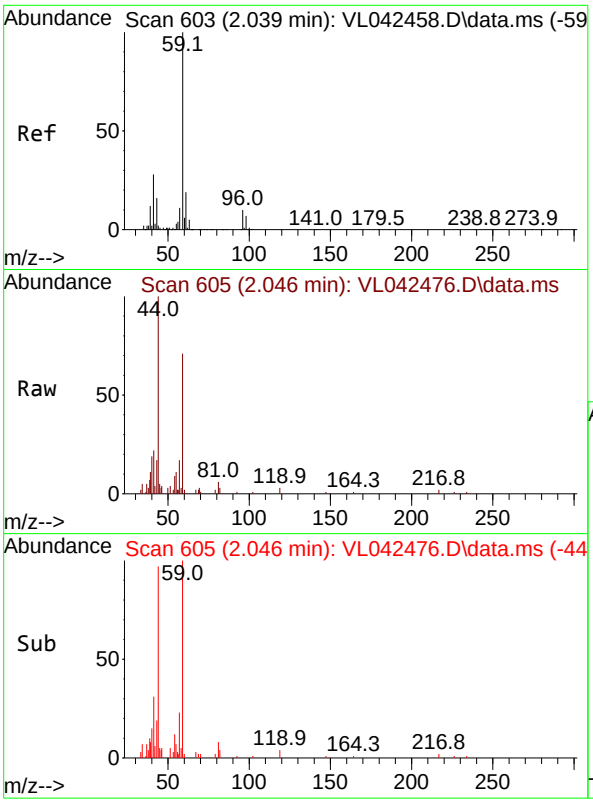


#16
1,3-Butadiene
Concen: 0.281 ppbv
RT: 1.602 min Scan# 468
Delta R.T. -0.006 min
Lab File: VL042476.D
Acq: 05 May 2025 15:18

Tgt Ion: 39 Resp: 1688

Ion	Ratio	Lower	Upper
39	100		
54	20.9	55.2	82.8#



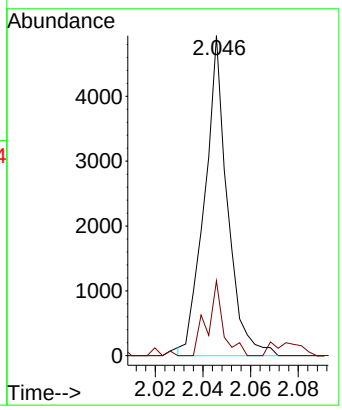


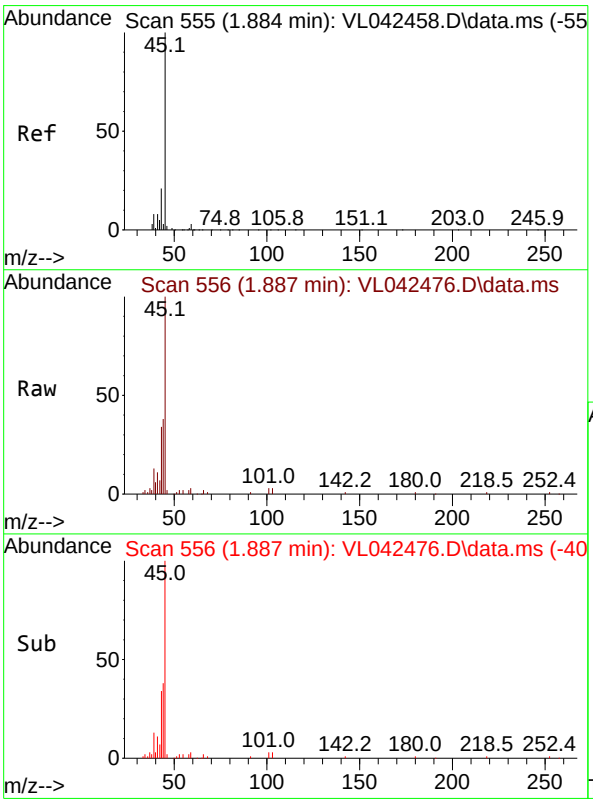
#17
tert-Butyl alcohol
Concen: 0.274 ppbv
RT: 2.046 min Scan# 6
Delta R.T. 0.006 min
Lab File: VL042476.D
Acq: 05 May 2025 15:18

Instrument :
MSVOA_L
ClientSampleId :
EBR-P06-SC-IA01-20250428

Tgt Ion: 59 Resp: 3280

Ion	Ratio	Lower	Upper
59	100		
57	17.2	8.3	12.5#

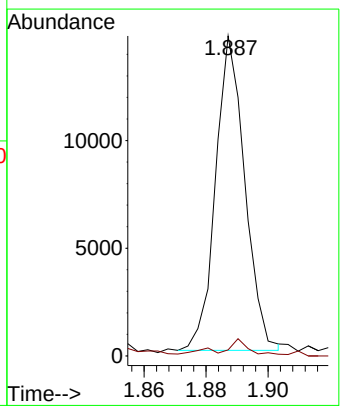


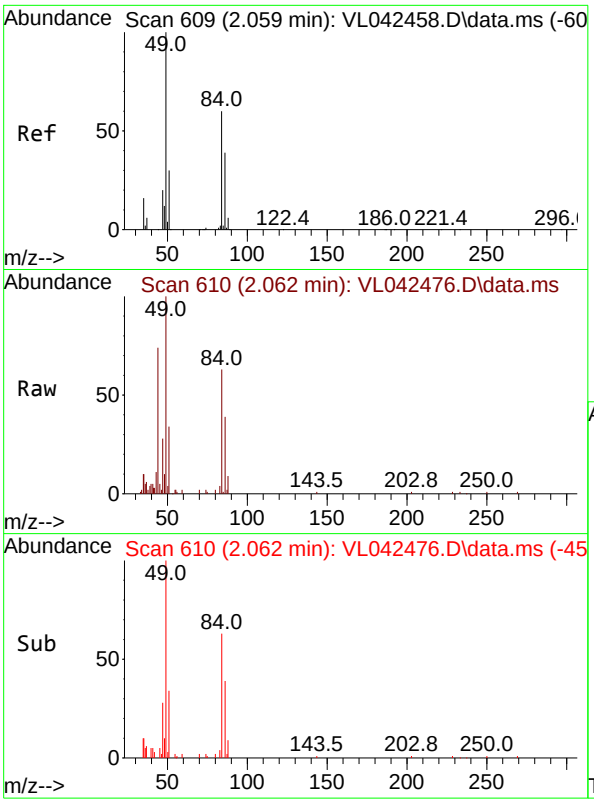


#19
Isopropyl Alcohol
Concen: 1.273 ppbv
RT: 1.887 min Scan# 556
Delta R.T. 0.003 min
Lab File: VL042476.D
Acq: 05 May 2025 15:18

Tgt Ion: 45 Resp: 9588

Ion	Ratio	Lower	Upper
45	100		
58	460.8	1.6	2.4#



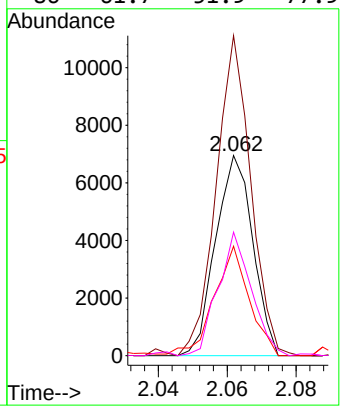


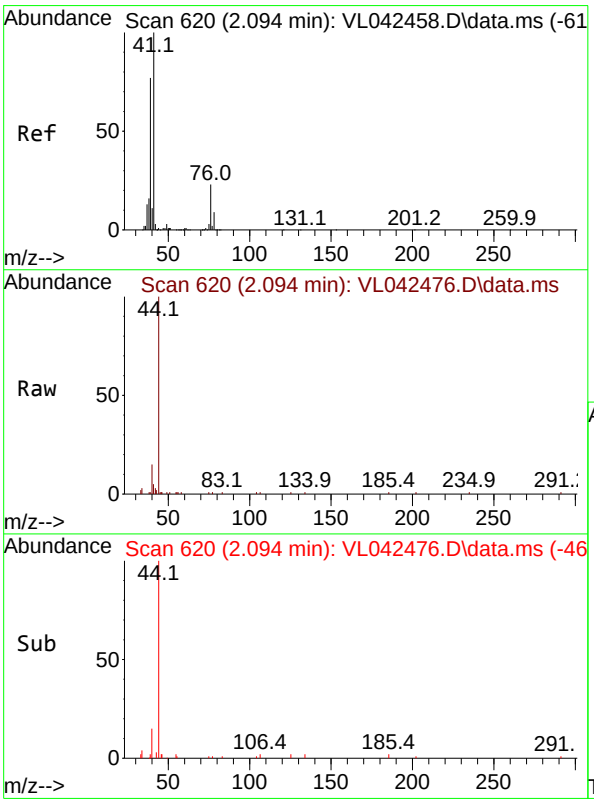
#20
Methylene Chloride
Concen: 1.275 ppbv
RT: 2.062 min Scan# 61
Delta R.T. 0.003 min
Lab File: VL042476.D
Acq: 05 May 2025 15:18

Instrument :
MSVOA_L
ClientSampleId :
EBR-P06-SC-IA01-20250428

Tgt Ion: 84 Resp: 5214

Ion	Ratio	Lower	Upper
84	100		
49	159.9	133.9	200.9
51	54.7	41.0	61.6
86	61.7	51.9	77.9

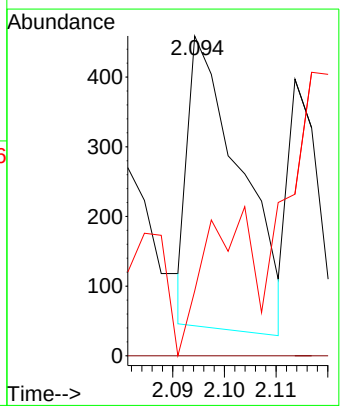


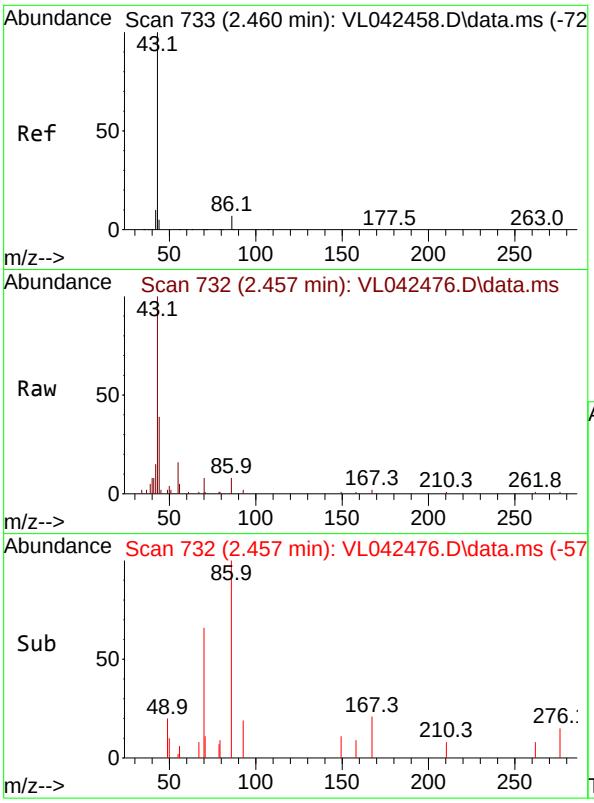


#21
Allyl Chloride
Concen: 0.034 ppbv
RT: 2.094 min Scan# 620
Delta R.T. -0.000 min
Lab File: VL042476.D
Acq: 05 May 2025 15:18

Tgt Ion: 41 Resp: 295

Ion	Ratio	Lower	Upper
41	100		
76	0.0	19.6	29.4#
39	0.0	61.0	91.4#



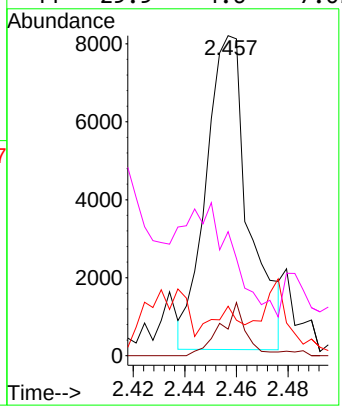


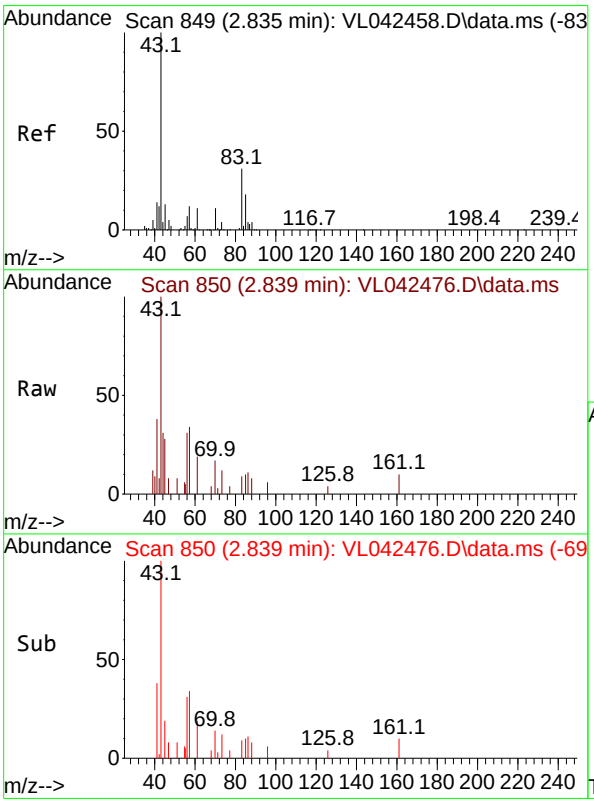
#23
Vinyl Acetate
Concen: 0.717 ppbv
RT: 2.457 min Scan# 7
Delta R.T. -0.003 min
Lab File: VL042476.D
Acq: 05 May 2025 15:18

Instrument :
MSVOA_L
ClientSampleId :
EBR-P06-SC-IA01-20250428

Tgt Ion: 43 Resp: 9304

Ion	Ratio	Lower	Upper
43	100		
86	9.3	5.5	8.3#
42	0.0	8.3	12.5#
44	29.9	4.6	7.0#

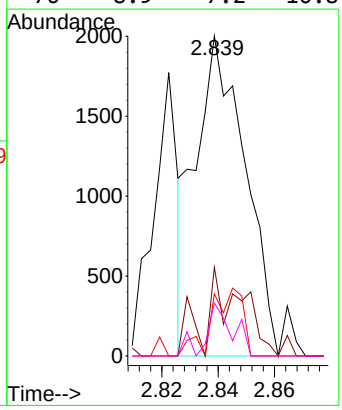


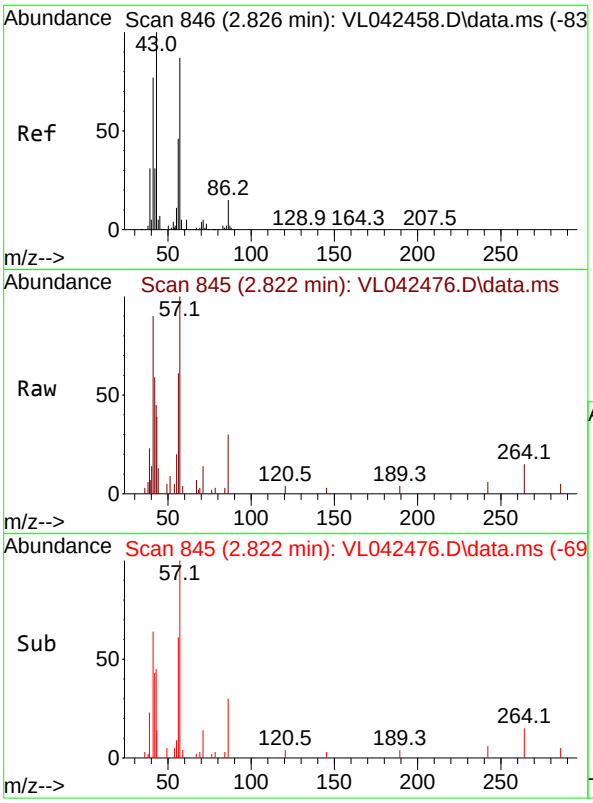


#25
Ethyl Acetate
Concen: 0.112 ppbv
RT: 2.839 min Scan# 850
Delta R.T. 0.003 min
Lab File: VL042476.D
Acq: 05 May 2025 15:18

Tgt Ion: 43 Resp: 2450

Ion	Ratio	Lower	Upper
43	100		
45	21.8	7.8	11.6#
61	14.2	7.2	10.8#
70	8.9	7.2	10.8



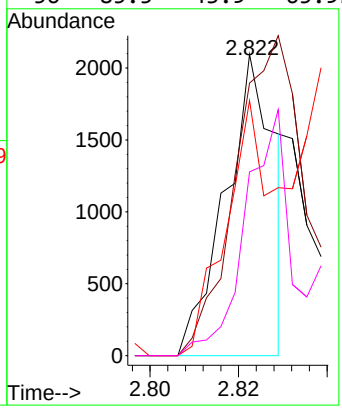


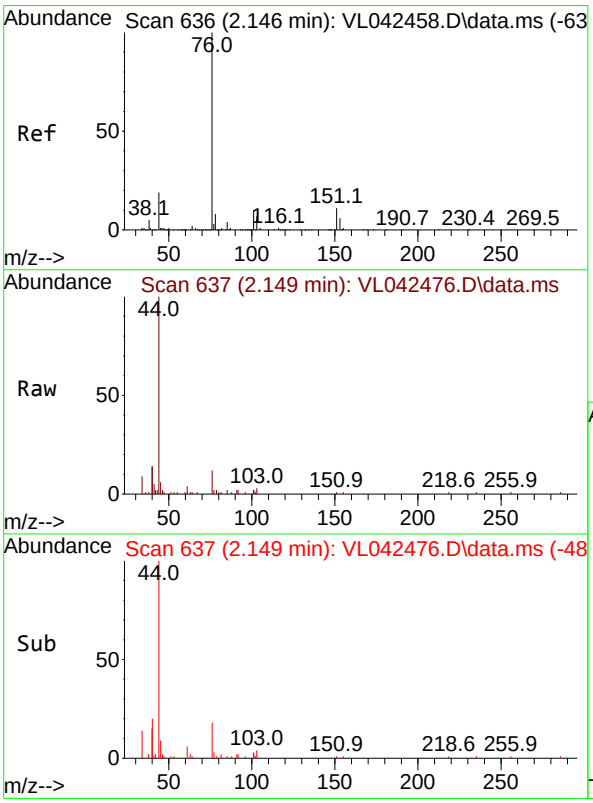
#26
Hexane
Concen: 0.170 ppbv
RT: 2.822 min Scan# 8
Delta R.T. -0.003 min
Lab File: VL042476.D
Acq: 05 May 2025 15:18

Instrument :
MSVOA_L
ClientSampleId :
EBR-P06-SC-IA01-20250428

Tgt Ion: 57 Resp: 1610

Ion	Ratio	Lower	Upper
57	100		
41	164.7	77.8	116.8#
43	228.3	187.0	280.6
56	85.5	43.9	65.9#

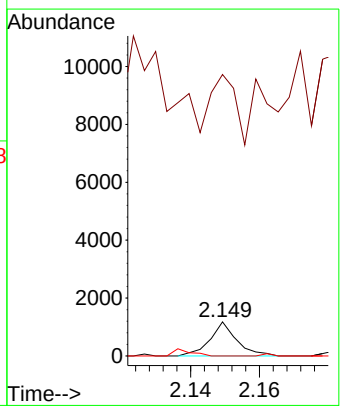


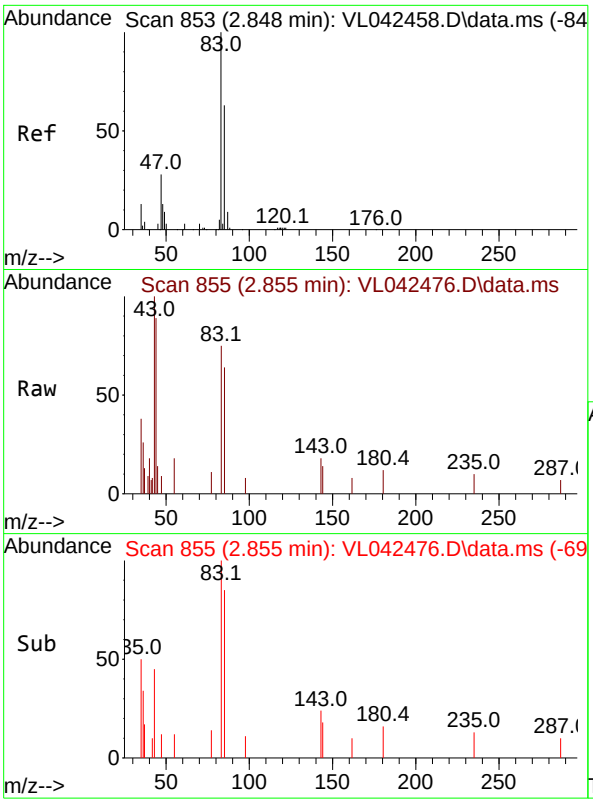


#27
Carbon Disulfide
Concen: 0.057 ppbv
RT: 2.149 min Scan# 637
Delta R.T. 0.003 min
Lab File: VL042476.D
Acq: 05 May 2025 15:18

Tgt Ion: 76 Resp: 636

Ion	Ratio	Lower	Upper
76	100		
44	2700.2	21.0	31.6#
78	16.2	8.6	13.0#



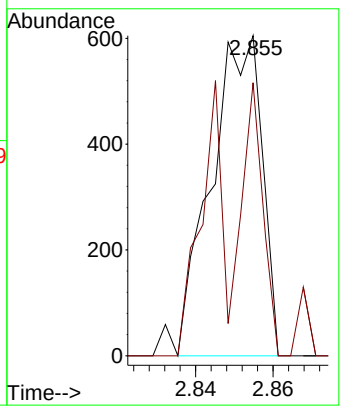


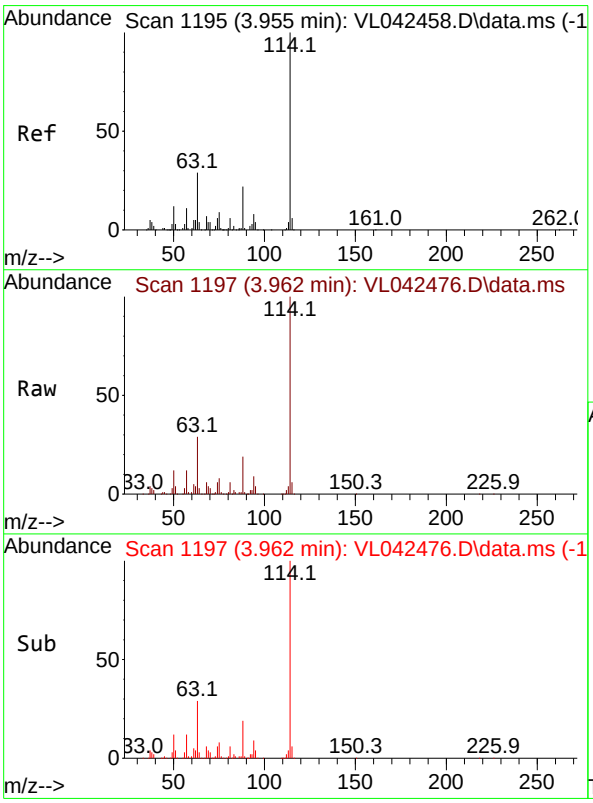
#29
Chloroform
Concen: 0.031 ppbv
RT: 2.855 min Scan# 8
Delta R.T. 0.006 min
Lab File: VL042476.D
Acq: 05 May 2025 15:18

Instrument :
MSVOA_L
ClientSampleId :
EBR-P06-SC-IA01-20250428

Tgt Ion: 83 Resp: 552

Ion	Ratio	Lower	Upper
83	100		
85	85.3	50.4	75.6#

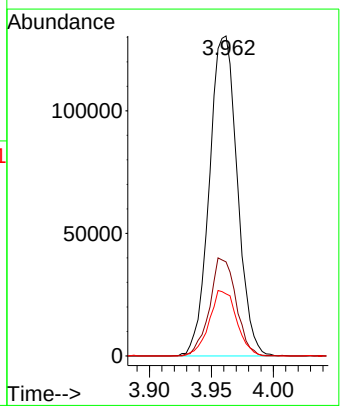


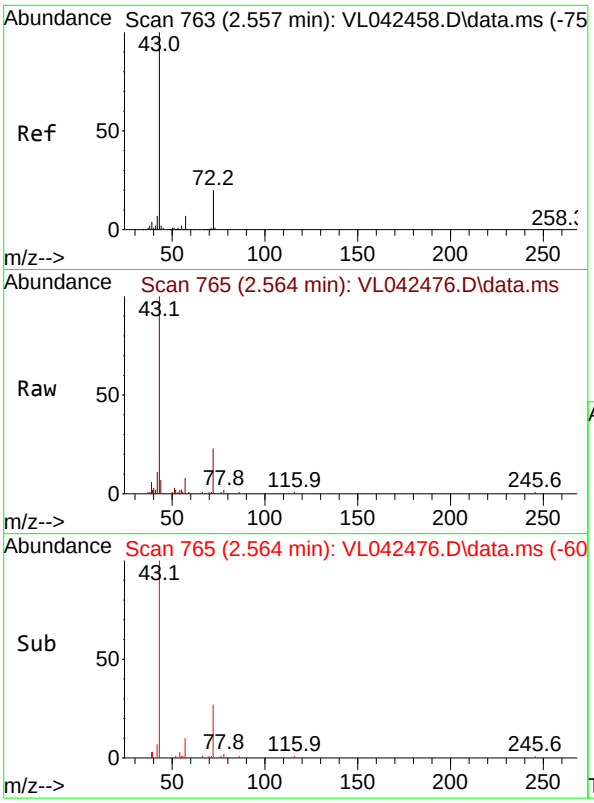


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.962 min Scan# 1197
Delta R.T. 0.006 min
Lab File: VL042476.D
Acq: 05 May 2025 15:18

Tgt Ion:114 Resp: 204912

Ion	Ratio	Lower	Upper
114	100		
63	29.1	23.1	34.7
88	20.1	16.1	24.1



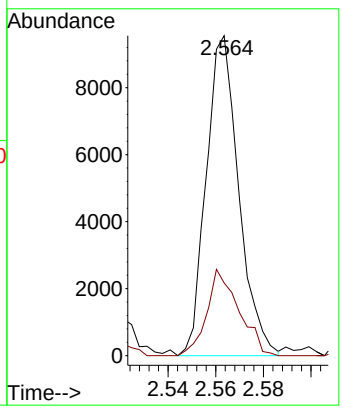


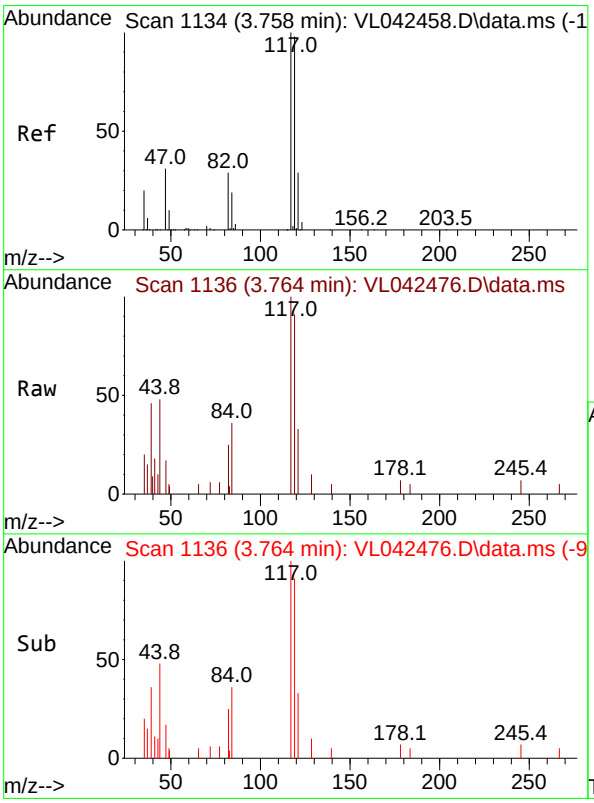
#34
2-Butanone
Concen: 0.612 ppbv
RT: 2.564 min Scan# 7
Delta R.T. 0.006 min
Lab File: VL042476.D
Acq: 05 May 2025 15:18

Instrument :
MSVOA_L
ClientSampleId :
EBR-P06-SC-IA01-20250428

Tgt Ion: 43 Resp: 9066

Ion	Ratio	Lower	Upper
43	100		
72	26.7	16.7	25.1#

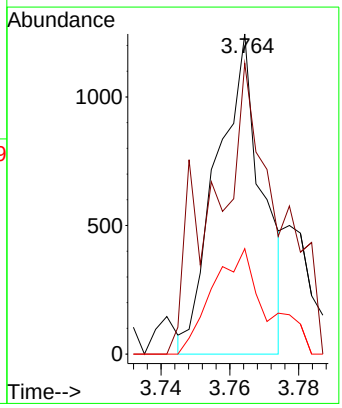


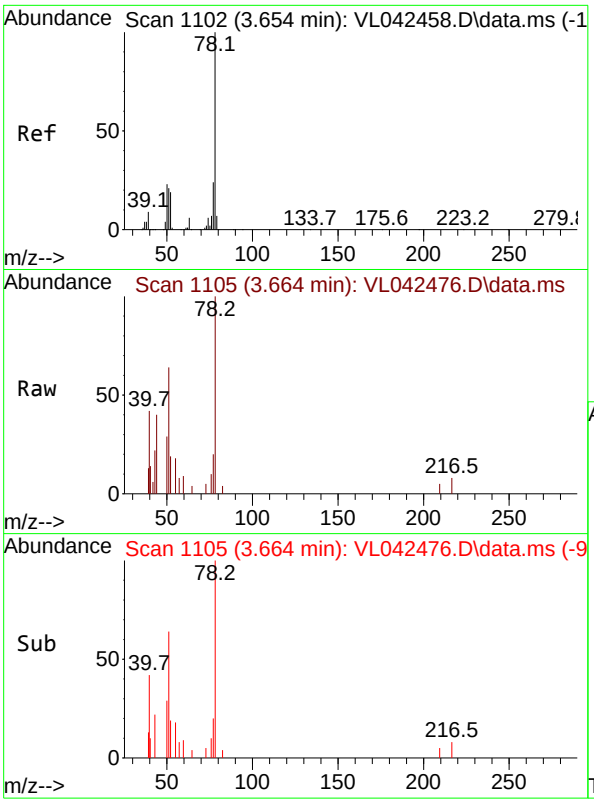


#35
Carbon Tetrachloride
Concen: 0.061 ppbv
RT: 3.764 min Scan# 1136
Delta R.T. 0.006 min
Lab File: VL042476.D
Acq: 05 May 2025 15:18

Tgt Ion:117 Resp: 1135

Ion	Ratio	Lower	Upper
117	100		
119	87.6	78.1	117.1
121	35.0	23.0	34.6#



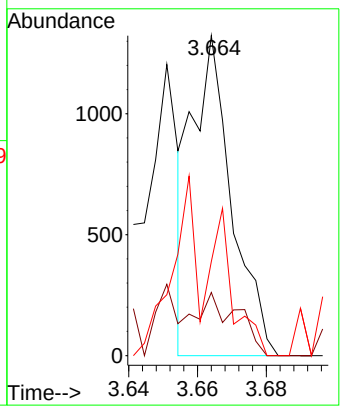


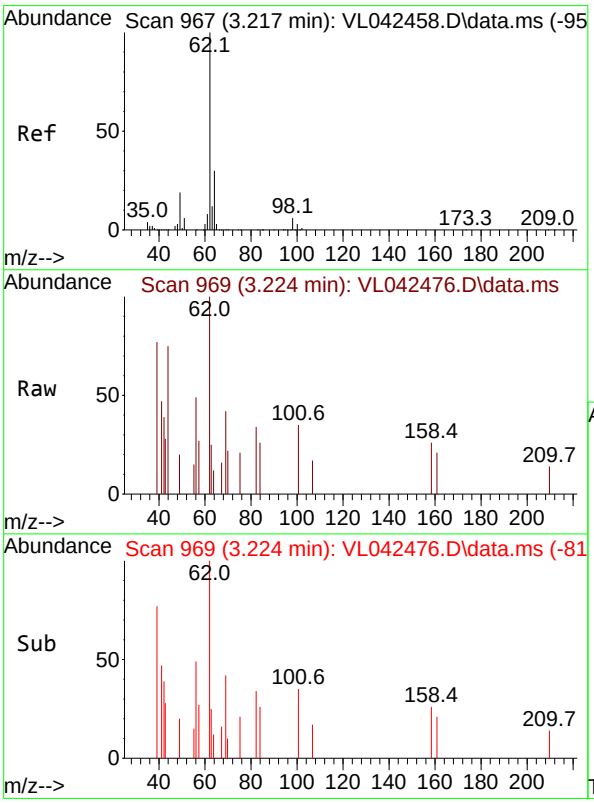
#36
Benzene
Concen: 0.055 ppbv
RT: 3.664 min Scan# 1
Delta R.T. 0.010 min
Lab File: VL042476.D
Acq: 05 May 2025 15:18

Instrument :
MSVOA_L
ClientSampleId :
EBR-P06-SC-IA01-20250428

Tgt Ion: 78 Resp: 1067

Ion	Ratio	Lower	Upper
78	100		
77	19.7	18.9	28.3
50	29.4	18.4	27.6#

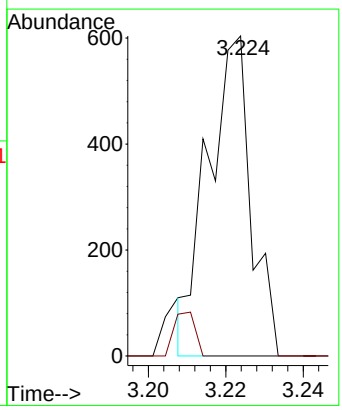


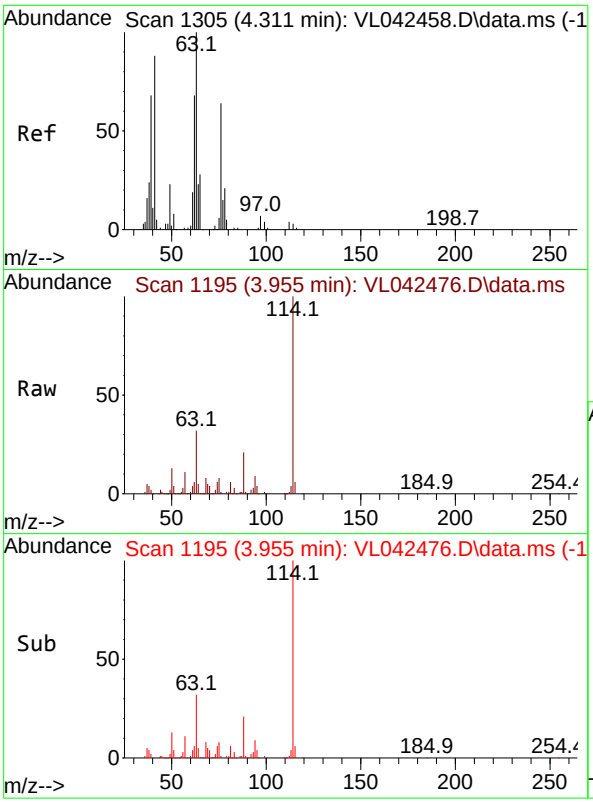


#37
1,2-Dichloroethane
Concen: 0.031 ppbv
RT: 3.224 min Scan# 969
Delta R.T. 0.006 min
Lab File: VL042476.D
Acq: 05 May 2025 15:18

Tgt Ion: 62 Resp: 464

Ion	Ratio	Lower	Upper
62	100		
98	6.7	4.3	6.5#



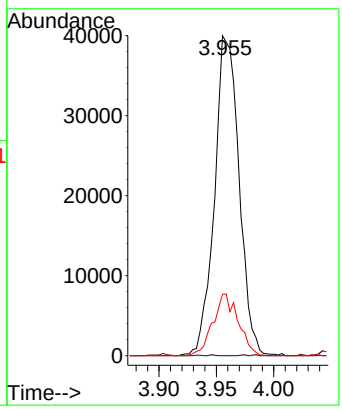


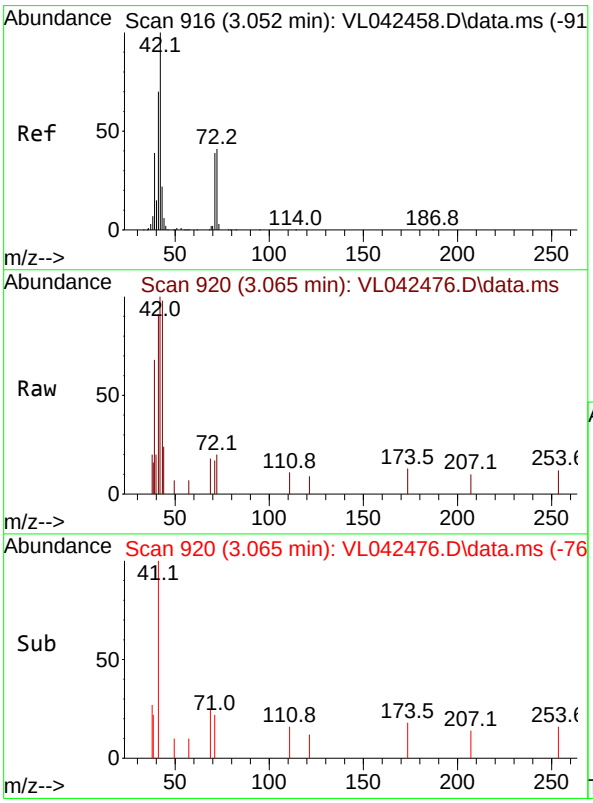
#39
1,2-Dichloropropane
Concen: 8.240 ppbv
RT: 3.955 min Scan# 11
Delta R.T. -0.356 min
Lab File: VL042476.D
Acq: 05 May 2025 15:18

Instrument :
MSVOA_L
ClientSampleId :
EBR-P06-SC-IA01-20250428

Tgt Ion: 63 Resp: 59653

Ion	Ratio	Lower	Upper
63	100		
41	0.0	69.8	104.6#
62	19.2	54.3	81.5#

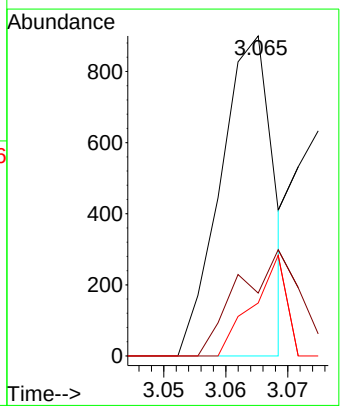


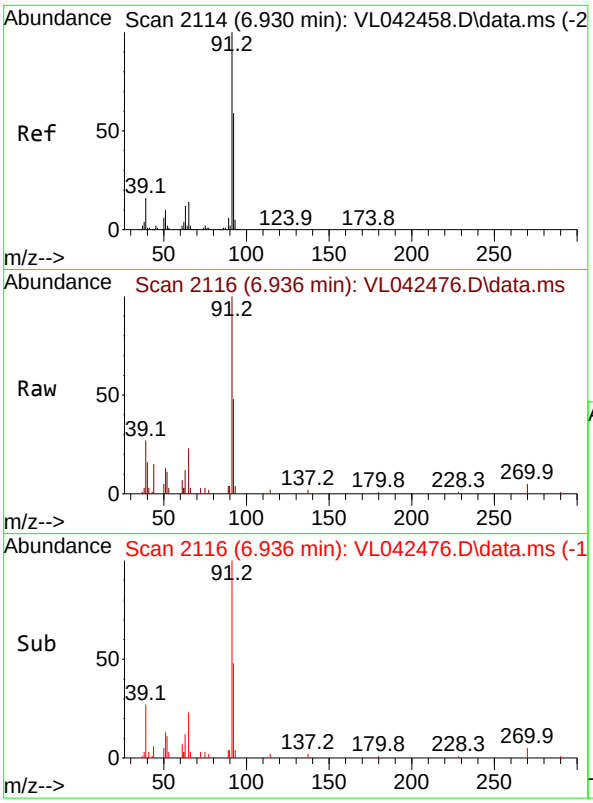


#41
Tetrahydrofuran
Concen: 0.076 ppbv
RT: 3.065 min Scan# 920
Delta R.T. 0.013 min
Lab File: VL042476.D
Acq: 05 May 2025 15:18

Tgt Ion: 42 Resp: 534

Ion	Ratio	Lower	Upper
42	100		
72	38.2	33.5	50.3
71	19.7	32.6	49.0#



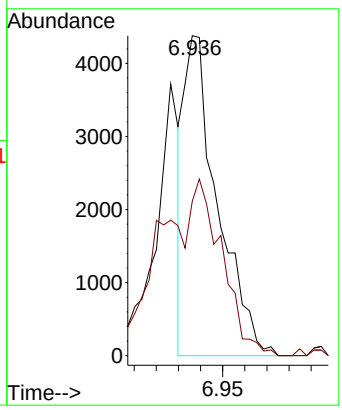


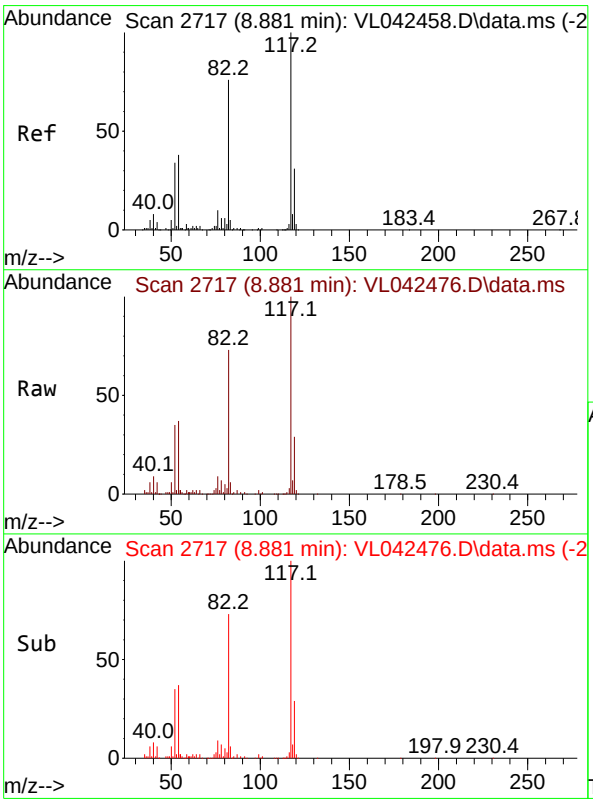
#53
Toluene
Concen: 0.226 ppbv
RT: 6.936 min Scan# 21
Delta R.T. 0.006 min
Lab File: VL042476.D
Acq: 05 May 2025 15:18

Instrument :
MSVOA_L
ClientSampleId :
EBR-P06-SC-IA01-20250428

Tgt Ion: 91 Resp: 4623

Ion	Ratio	Lower	Upper
91	100		
92	102.2	47.9	71.9#

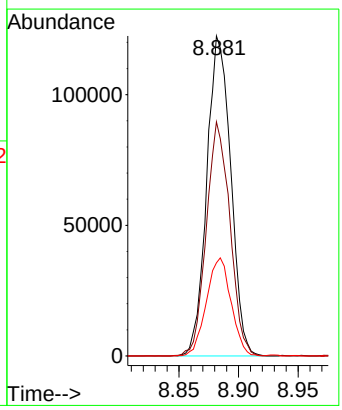


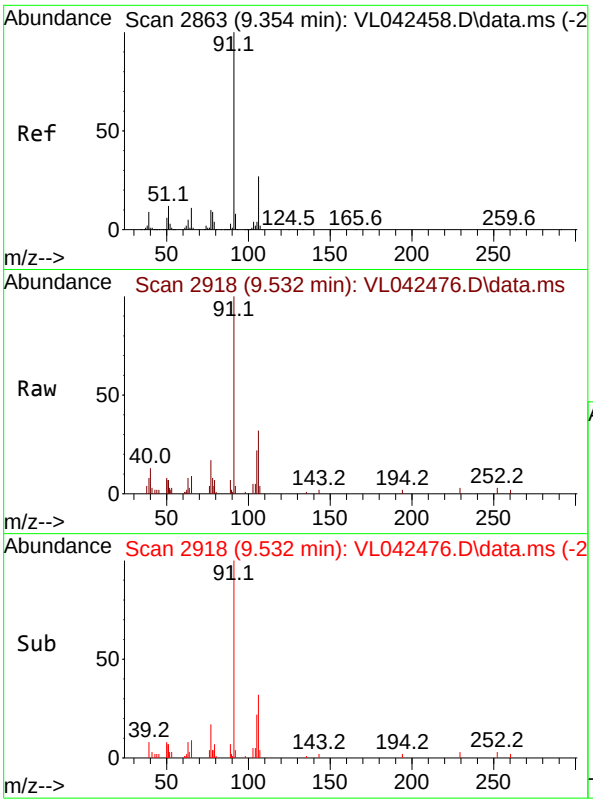


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.881 min Scan# 2717
Delta R.T. -0.000 min
Lab File: VL042476.D
Acq: 05 May 2025 15:18

Tgt Ion:117 Resp: 170942

Ion	Ratio	Lower	Upper
117	100		
82	72.1	63.5	95.3
119	31.6	25.8	38.8



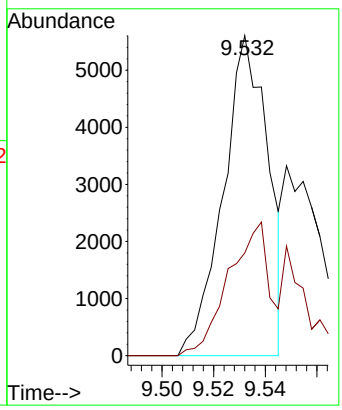


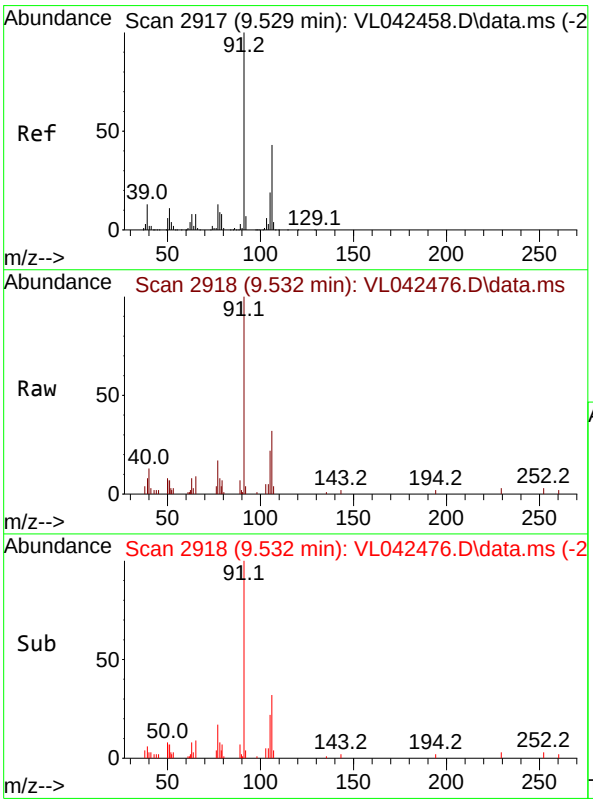
#58
Ethyl Benzene
Concen: 0.237 ppbv
RT: 9.532 min Scan# 2
Delta R.T. 0.178 min
Lab File: VL042476.D
Acq: 05 May 2025 15:18

Instrument :
MSVOA_L
ClientSampleId :
EBR-P06-SC-IA01-20250428

Tgt Ion: 91 Resp: 6759

Ion	Ratio	Lower	Upper
91	100		
106	32.1	21.9	32.9

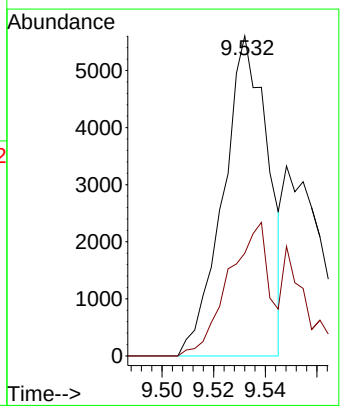


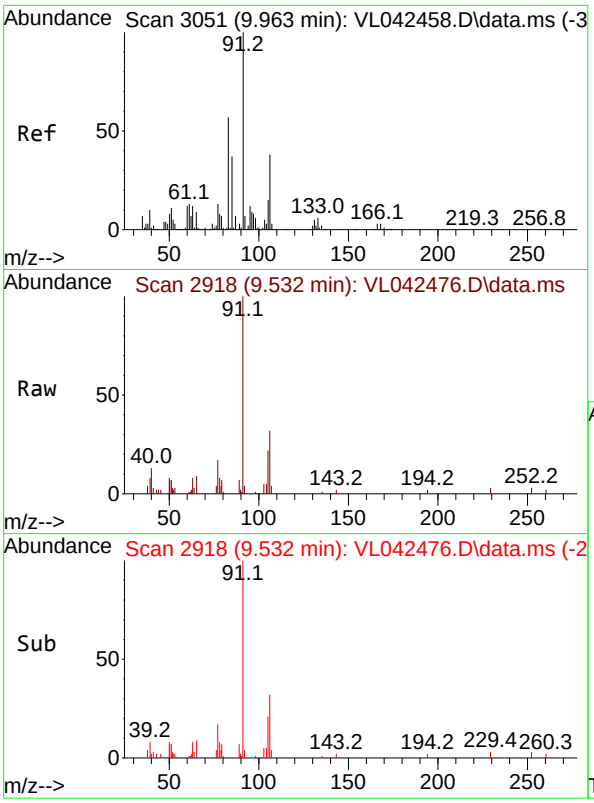


#59
m/p-Xylene
Concen: 0.282 ppbv
RT: 9.532 min Scan# 2918
Delta R.T. 0.003 min
Lab File: VL042476.D
Acq: 05 May 2025 15:18

Tgt Ion: 91 Resp: 6759

Ion	Ratio	Lower	Upper
91	100		
106	56.5	34.2	51.2#



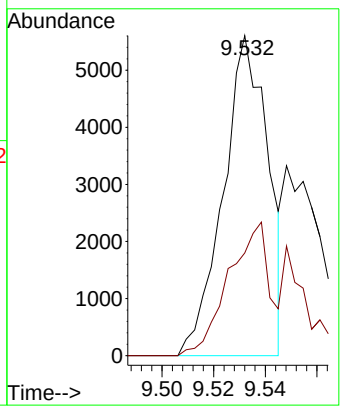


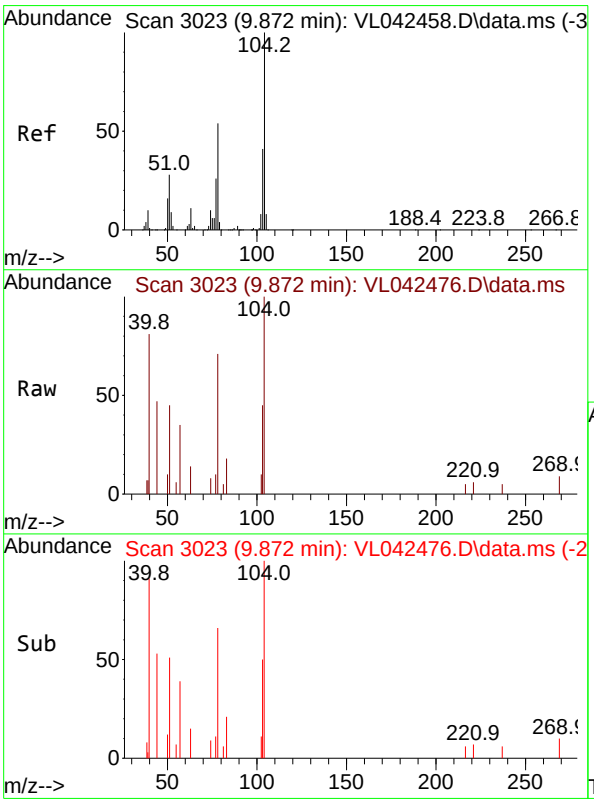
#60
o-Xylene
Concen: 0.282 ppbv
RT: 9.532 min Scan# 2
Delta R.T. -0.430 min
Lab File: VL042476.D
Acq: 05 May 2025 15:18

Instrument :
MSVOA_L
ClientSampleId :
EBR-P06-SC-IA01-20250428

Tgt Ion: 91 Resp: 6759

Ion	Ratio	Lower	Upper
91	100		
106	56.5	20.1	60.2

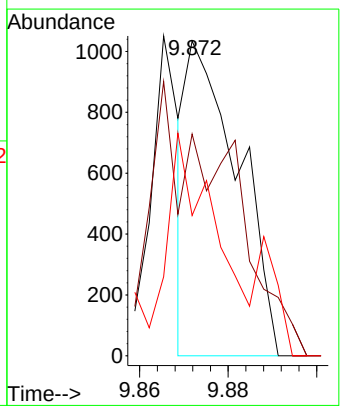


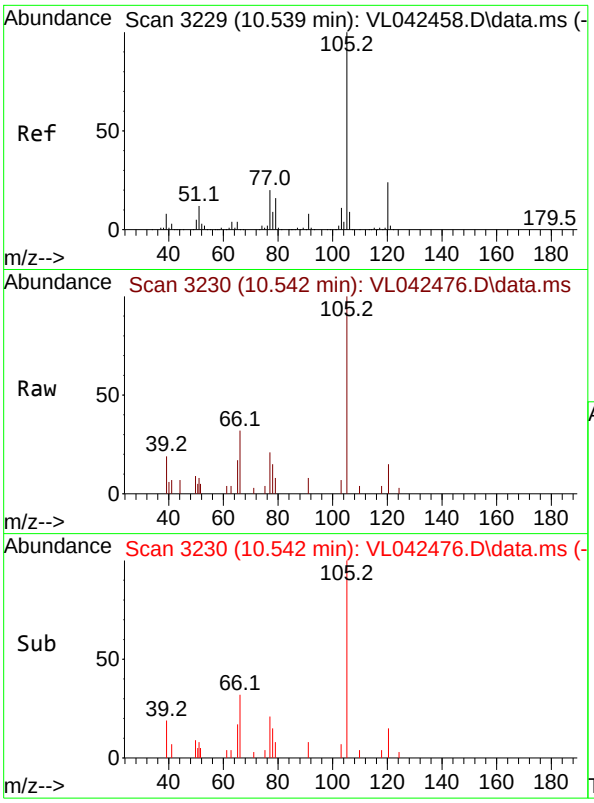


#61
Styrene
Concen: 0.093 ppbv
RT: 9.872 min Scan# 3023
Delta R.T. -0.000 min
Lab File: VL042476.D
Acq: 05 May 2025 15:18

Tgt Ion:104 Resp: 835

Ion	Ratio	Lower	Upper
104	100		
78	0.0	46.9	70.3#
103	92.6	36.6	55.0#



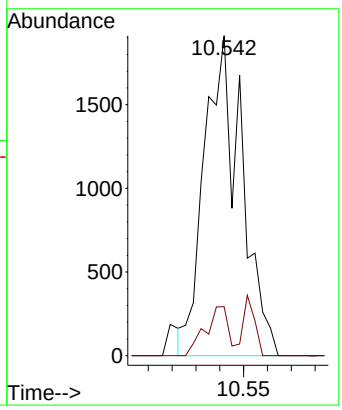


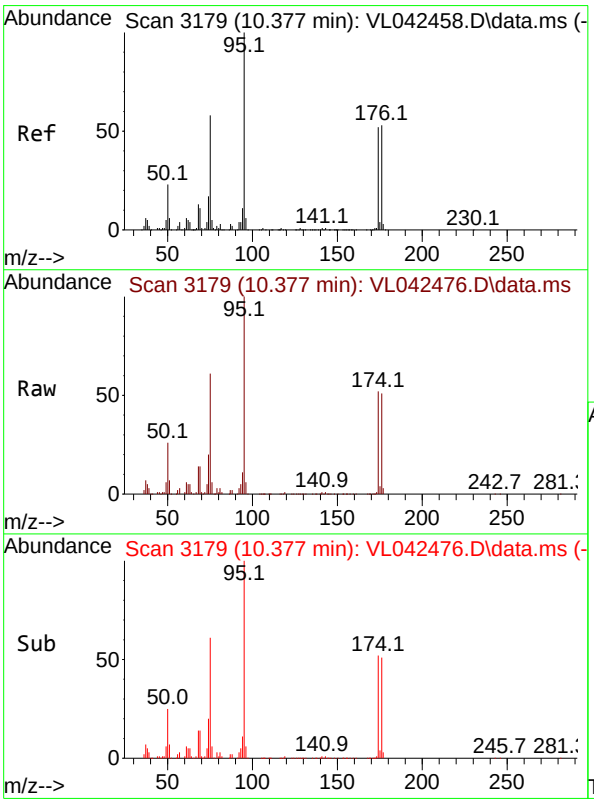
#62
Isopropylbenzene
Concen: 0.060 ppbv
RT: 10.542 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042476.D
Acq: 05 May 2025 15:18

Instrument :
MSVOA_L
ClientSampleId :
EBR-P06-SC-IA01-20250428

Tgt Ion:105 Resp: 2072

Ion	Ratio	Lower	Upper
105	100		
120	15.4	18.8	28.2#

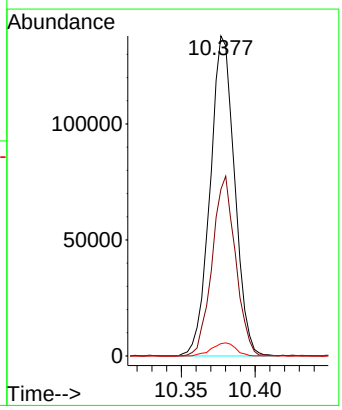


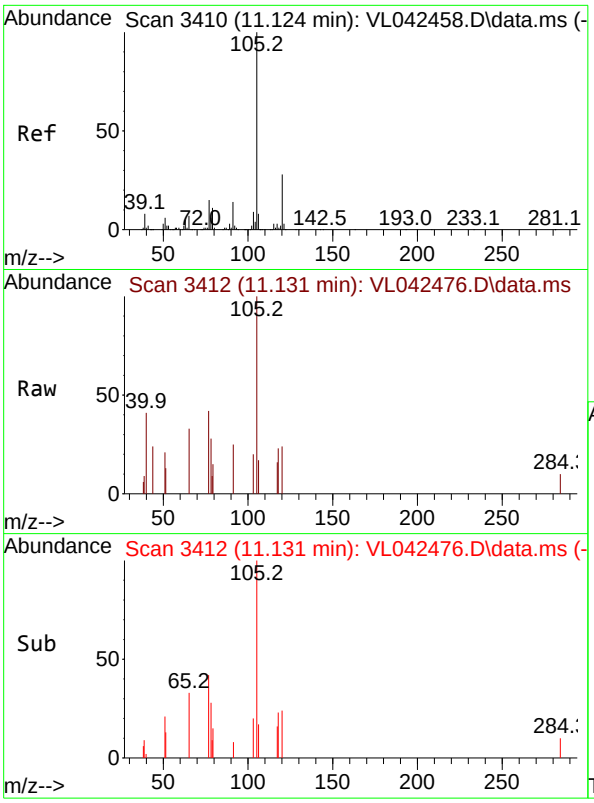


#68
1-Bromo-4-Fluorobenzene
Concen: 10.050 ppbv
RT: 10.377 min Scan# 3179
Delta R.T. -0.000 min
Lab File: VL042476.D
Acq: 05 May 2025 15:18

Tgt Ion: 95 Resp: 159284

Ion	Ratio	Lower	Upper
95	100		
174	53.7	42.7	64.1
175	4.1	3.6	5.4



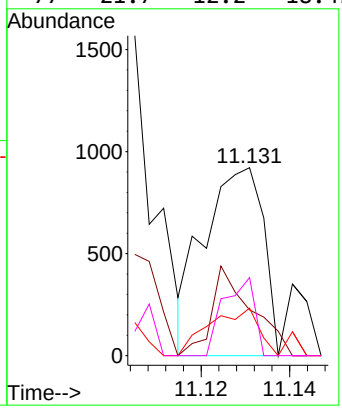


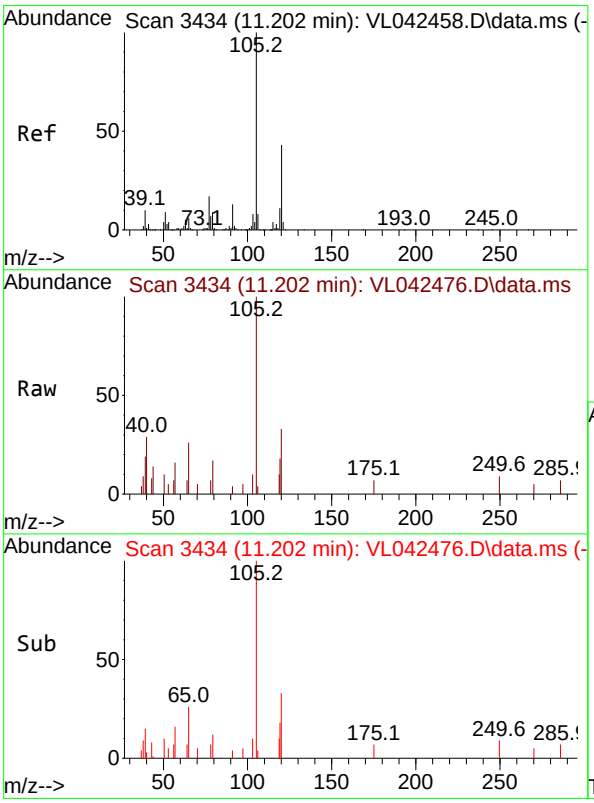
#72
4-Ethyltoluene
Concen: 0.030 ppbv
RT: 11.131 min Scan# 34
Delta R.T. 0.006 min
Lab File: VL042476.D
Acq: 05 May 2025 15:18

Instrument :
MSVOA_L
ClientSampleId :
EBR-P06-SC-IA01-20250428

Tgt Ion:105 Resp: 859

Ion	Ratio	Lower	Upper
105	100		
120	0.0	22.0	33.0#
91	0.0	11.2	16.8#
77	21.7	12.2	18.4#

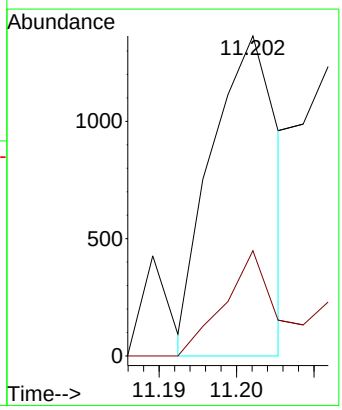


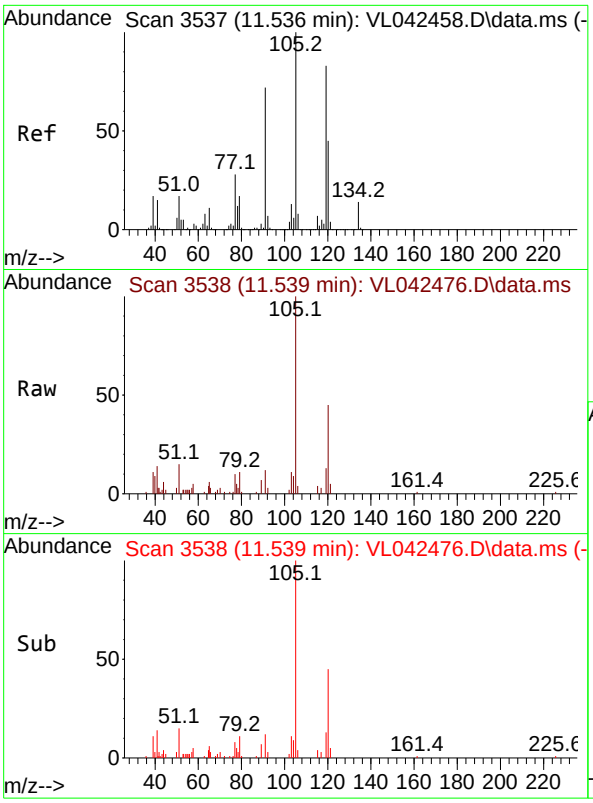


#73
1,3,5-Trimethylbenzene
Concen: 0.033 ppbv
RT: 11.202 min Scan# 3434
Delta R.T. -0.000 min
Lab File: VL042476.D
Acq: 05 May 2025 15:18

Tgt Ion:105 Resp: 814

Ion	Ratio	Lower	Upper
105	100		
120	35.3	34.4	51.6



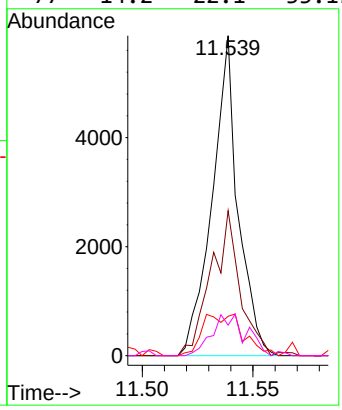


#74
1,2,4-Trimethylbenzene
Concen: 0.159 ppbv
RT: 11.539 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042476.D
Acq: 05 May 2025 15:18

Instrument :
MSVOA_L
ClientSampleId :
EBR-P06-SC-IA01-20250428

Tgt Ion:105 Resp: 4777

Ion	Ratio	Lower	Upper
105	100		
120	45.3	36.1	54.1
91	12.3	57.6	86.4#
77	14.2	22.1	33.1#



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050525\
Data File : VL042479.D
Acq On : 05 May 2025 16:59
Operator : SY/MD
Sample : Q1927-02
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
EBR-P03-SC-IA01-20250428

Quant Time: May 06 01:43:44 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri May 02 03:16:31 2025
Response via : Initial Calibration

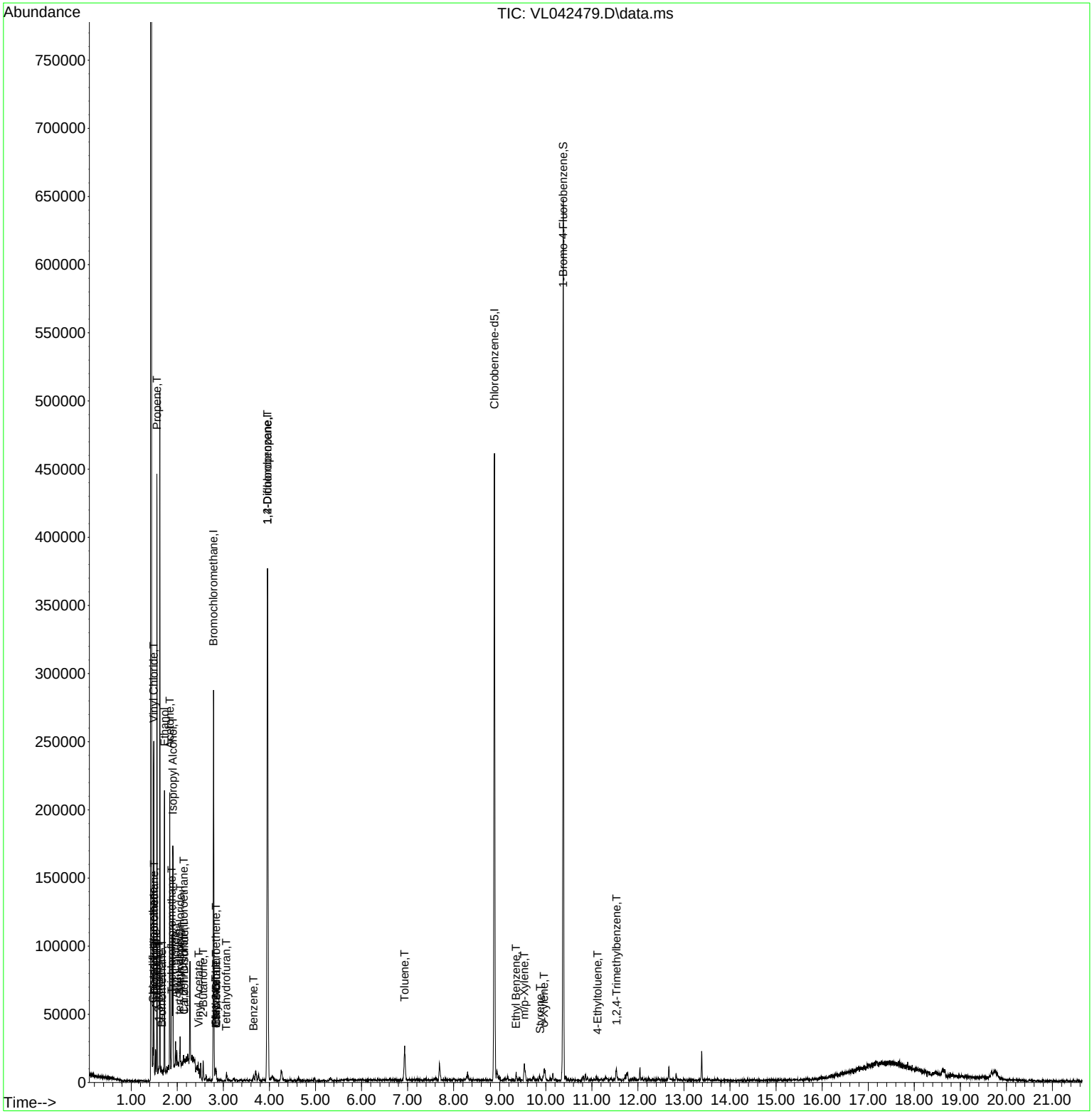
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.787	49	68950	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.959	114	192895	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.885	117	161884	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.377	95	156074	10.399	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 104.000%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.499	85	6203	0.544	ppbv		99
3) Chlorodifluoromethane	1.476	51	8531	0.707	ppbv	#	90
4) Chloromethane	1.531	50	2764	0.580	ppbv	#	81
5) Vinyl Chloride	1.486	62	199	0.041	ppbv	#	44
6) Bromomethane	1.670	94	95	0.042	ppbv	#	6
9) Propene	1.557	41	48148	12.202	ppbv		98
11) Trichlorofluoromethane	1.877	101	3702	0.352	ppbv		85
12) 1,1,2-Trichlorotrifluo...	2.140	101	864	0.103	ppbv	#	66
13) Ethanol	1.722	45	69923	87.324	ppbv		98
15) Acetone	1.835	43	83945	6.669	ppbv		94
16) 1,3-Butadiene	1.602	39	1173	0.211	ppbv	#	15
17) tert-Butyl alcohol	2.046	59	1051	0.095	ppbv	#	69
19) Isopropyl Alcohol	1.907	45	12559	1.803	ppbv	#	94
20) Methylene Chloride	2.062	84	2323	0.614	ppbv		91
21) Allyl Chloride	1.965	41	2461	0.304	ppbv	#	48
23) Vinyl Acetate	2.467	43	914	0.076	ppbv	#	1
25) Ethyl Acetate	2.842	43	3810	0.189	ppbv	#	78
26) Hexane	2.829	57	602	0.069	ppbv	#	1
27) Carbon Disulfide	2.149	76	309	0.030	ppbv	#	1
29) Chloroform	2.845	83	615	0.037	ppbv	#	61
31) cis-1,2-Dichloroethene	2.842	61	330	0.032	ppbv	#	25
34) 2-Butanone	2.564	43	8223	0.589	ppbv		92
36) Benzene	3.654	78	1690	0.093	ppbv	#	67
39) 1,2-Dichloropropane	3.959	63	55014	8.073	ppbv	#	24
41) Tetrahydrofuran	3.062	42	970	0.146	ppbv	#	77
53) Toluene	6.936	91	15313	0.795	ppbv		93
58) Ethyl Benzene	9.354	91	2584	0.096	ppbv		90
59) m/p-Xylene	9.535	91	3801	0.168	ppbv	#	35
60) o-Xylene	9.963	91	2046	0.090	ppbv		85
61) Styrene	9.878	104	281	0.033	ppbv	#	44
72) 4-Ethyltoluene	11.125	105	870	0.032	ppbv	#	65
74) 1,2,4-Trimethylbenzene	11.536	105	1425	0.050	ppbv	#	58

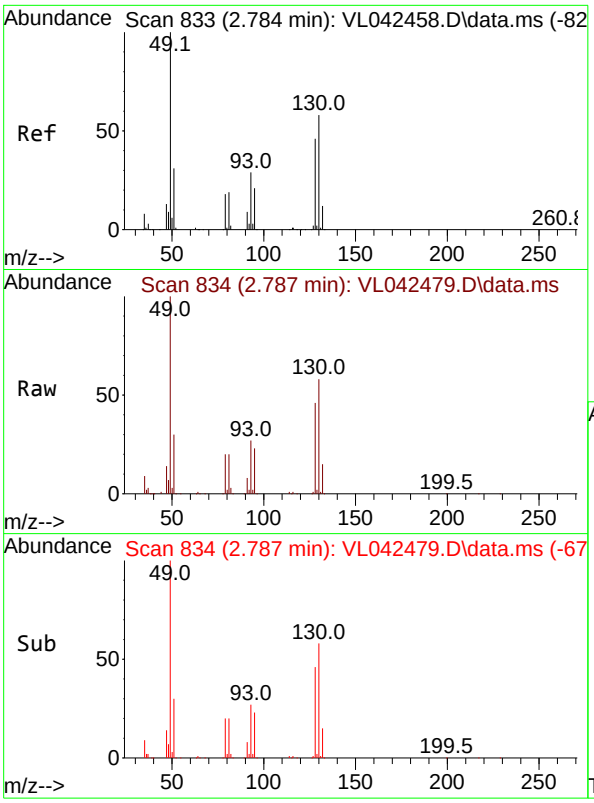
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050525\
Data File : VL042479.D
Acq On : 05 May 2025 16:59
Operator : SY/MD
Sample : Q1927-02
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
EBR-P03-SC-IA01-20250428

Quant Time: May 06 01:43:44 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri May 02 03:16:31 2025
Response via : Initial Calibration



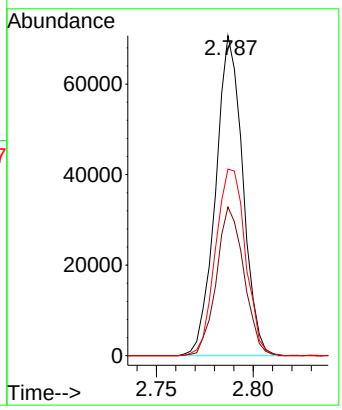


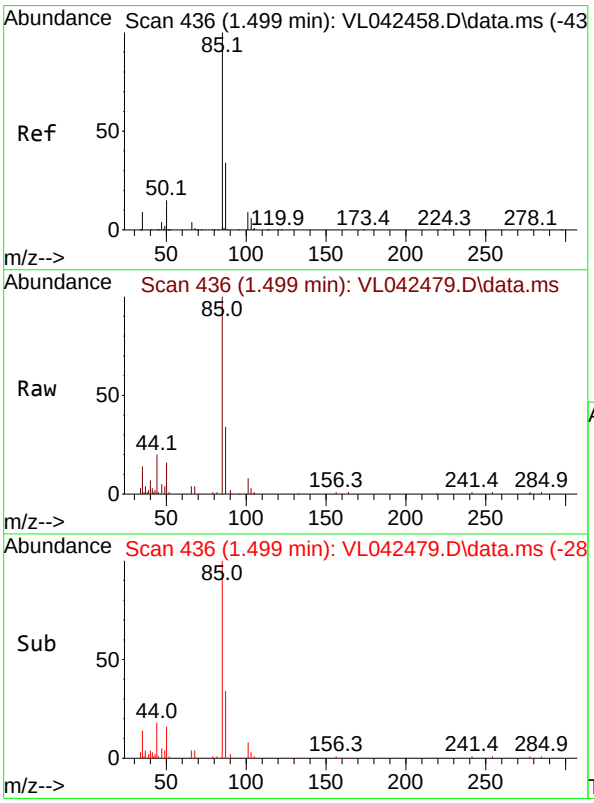
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042479.D
Acq: 05 May 2025 16:59

Instrument :
MSVOA_L
ClientSampleId :
EBR-P03-SC-IA01-20250428

Tgt Ion: 49 Resp: 68950

Ion	Ratio	Lower	Upper
49	100		
128	47.1	23.3	69.9
130	64.3	29.5	88.6

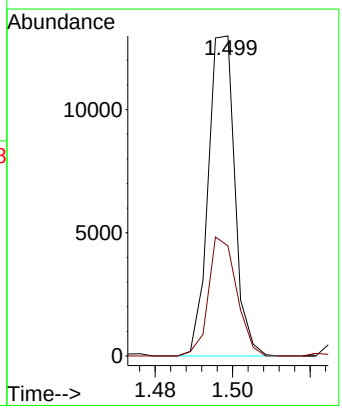


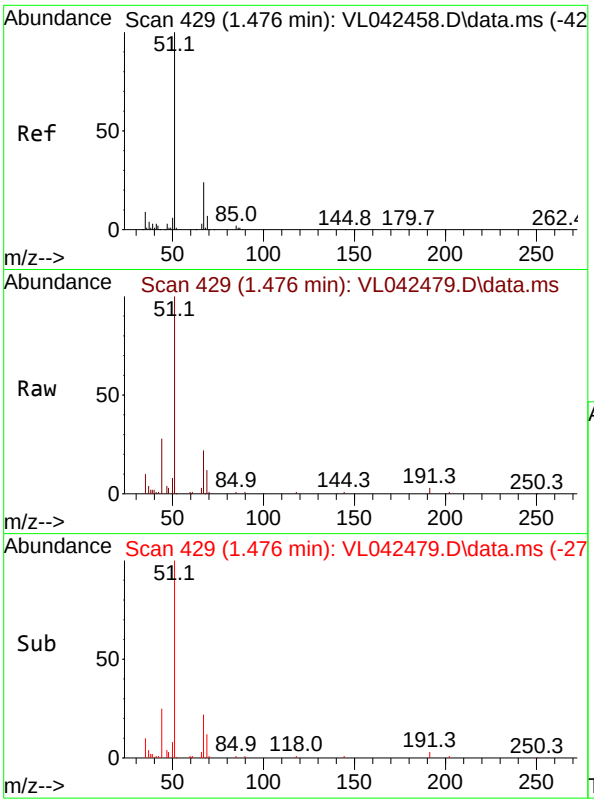


#2
Dichlorodifluoromethane
Concen: 0.544 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.000 min
Lab File: VL042479.D
Acq: 05 May 2025 16:59

Tgt Ion: 85 Resp: 6203

Ion	Ratio	Lower	Upper
85	100		
87	34.4	26.9	40.3



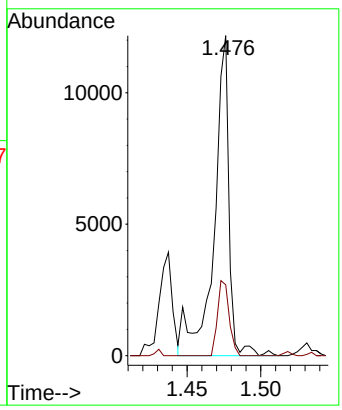


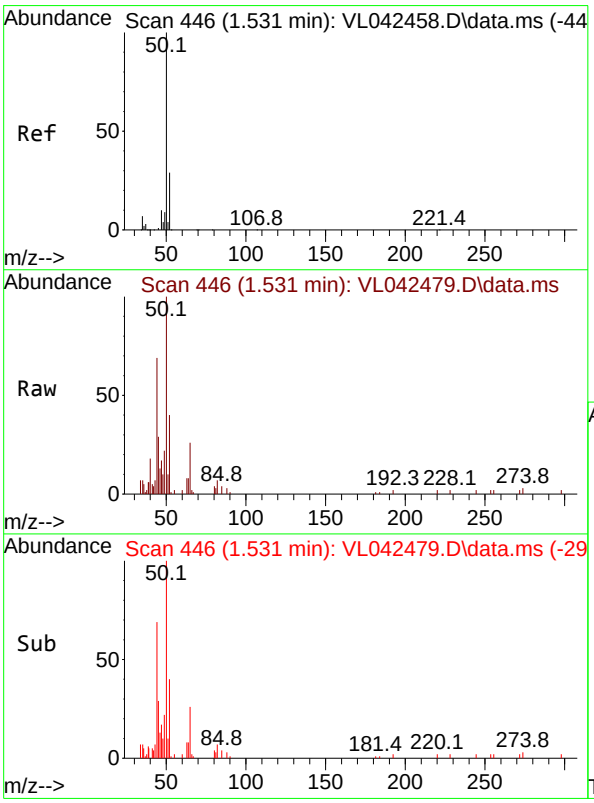
#3
Chlorodifluoromethane
Concen: 0.707 ppbv
RT: 1.476 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042479.D
Acq: 05 May 2025 16:59

Instrument :
MSVOA_L
ClientSampleId :
EBR-P03-SC-IA01-20250428

Tgt Ion: 51 Resp: 8531

Ion	Ratio	Lower	Upper
51	100		
67	18.3	18.4	27.6#

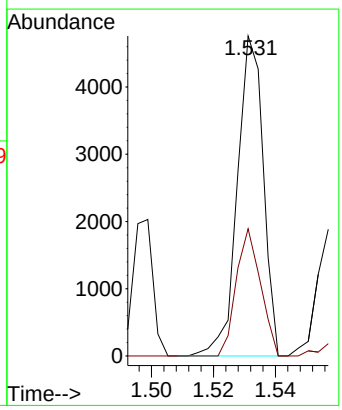


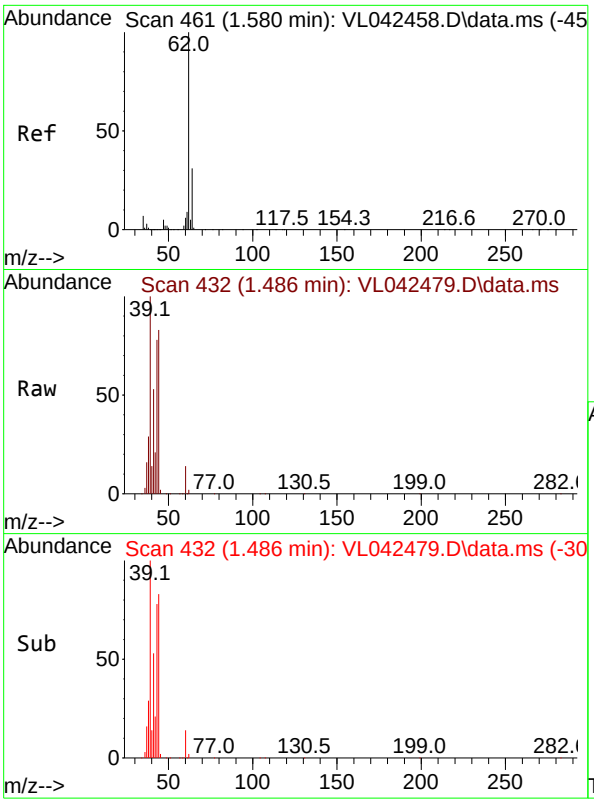


#4
Chloromethane
Concen: 0.580 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL042479.D
Acq: 05 May 2025 16:59

Tgt Ion: 50 Resp: 2764

Ion	Ratio	Lower	Upper
50	100		
52	39.7	23.5	35.3#



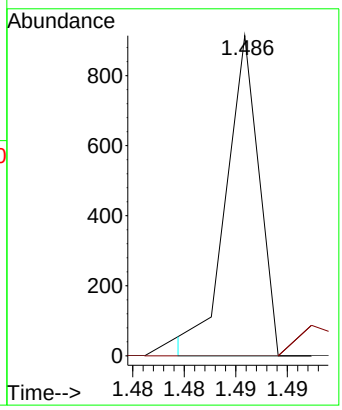


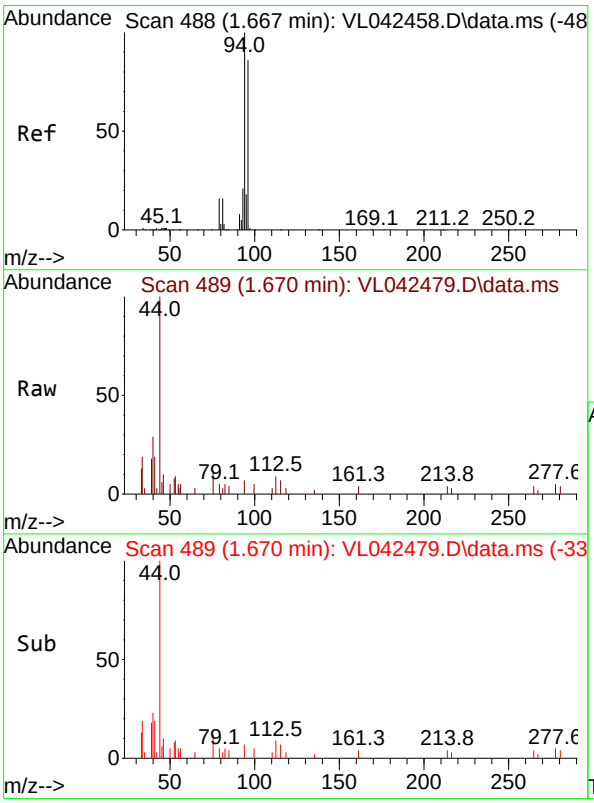
#5
Vinyl Chloride
Concen: 0.041 ppbv
RT: 1.486 min Scan# 4
Delta R.T. -0.094 min
Lab File: VL042479.D
Acq: 05 May 2025 16:59

Instrument :
MSVOA_L
ClientSampleId :
EBR-P03-SC-IA01-20250428

Tgt Ion: 62 Resp: 199

Ion	Ratio	Lower	Upper
62	100		
64	0.0	24.9	37.3#

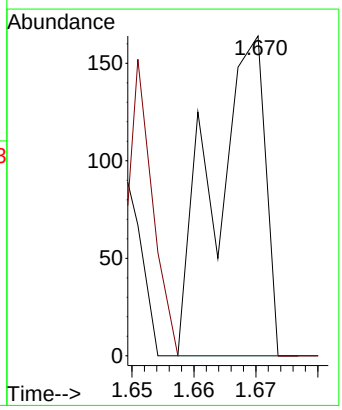


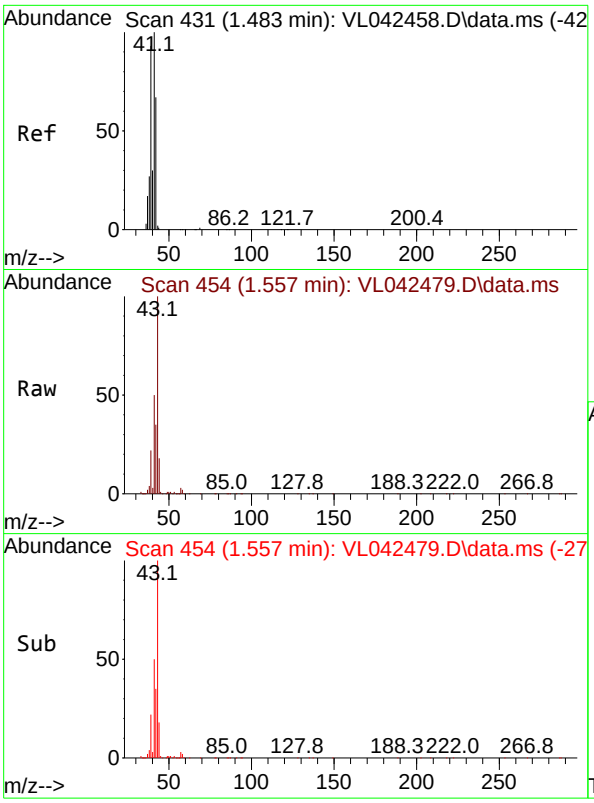


#6
Bromomethane
Concen: 0.042 ppbv
RT: 1.670 min Scan# 489
Delta R.T. 0.003 min
Lab File: VL042479.D
Acq: 05 May 2025 16:59

Tgt Ion: 94 Resp: 95

Ion	Ratio	Lower	Upper
94	100		
96	0.0	68.8	103.2#



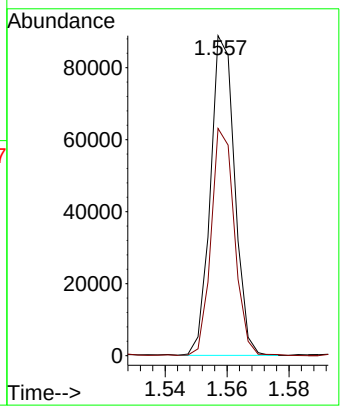


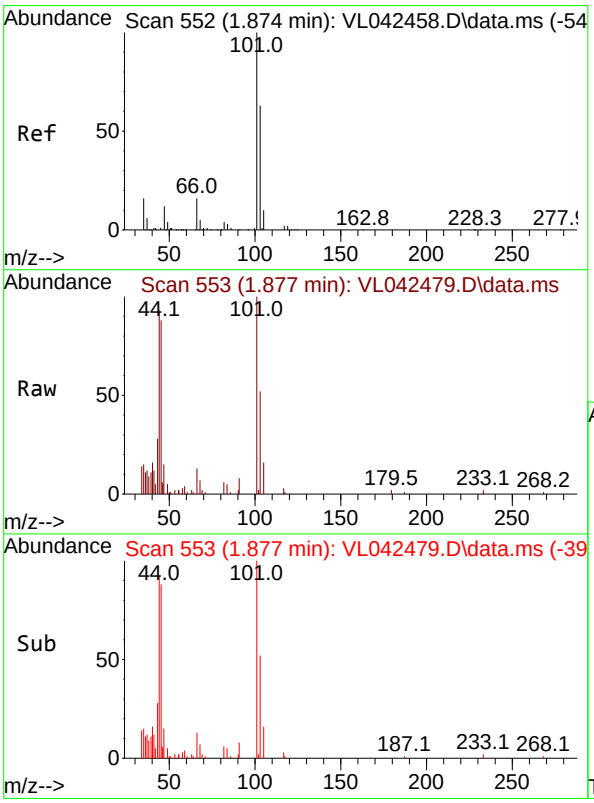
#9
Propene
Concen: 12.202 ppbv
RT: 1.557 min Scan# 4
Delta R.T. 0.075 min
Lab File: VL042479.D
Acq: 05 May 2025 16:59

Instrument :
MSVOA_L
ClientSampleId :
EBR-P03-SC-IA01-20250428

Tgt Ion: 41 Resp: 48148

Ion	Ratio	Lower	Upper
41	100		
42	69.3	54.3	81.5

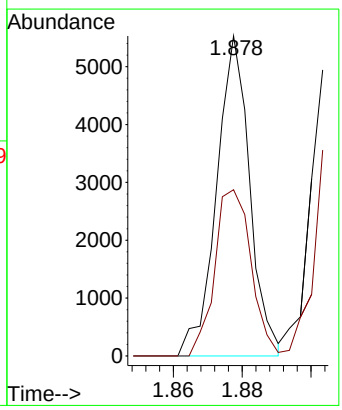


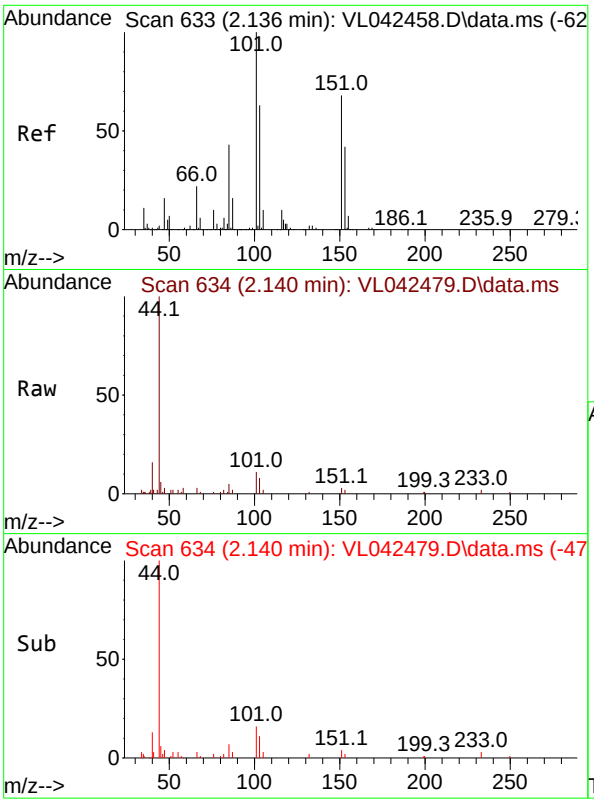


#11
Trichlorofluoromethane
Concen: 0.352 ppbv
RT: 1.877 min Scan# 553
Delta R.T. 0.003 min
Lab File: VL042479.D
Acq: 05 May 2025 16:59

Tgt Ion:101 Resp: 3702

Ion	Ratio	Lower	Upper
101	100		
103	52.0	50.6	76.0



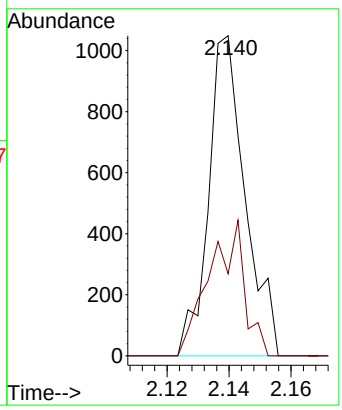


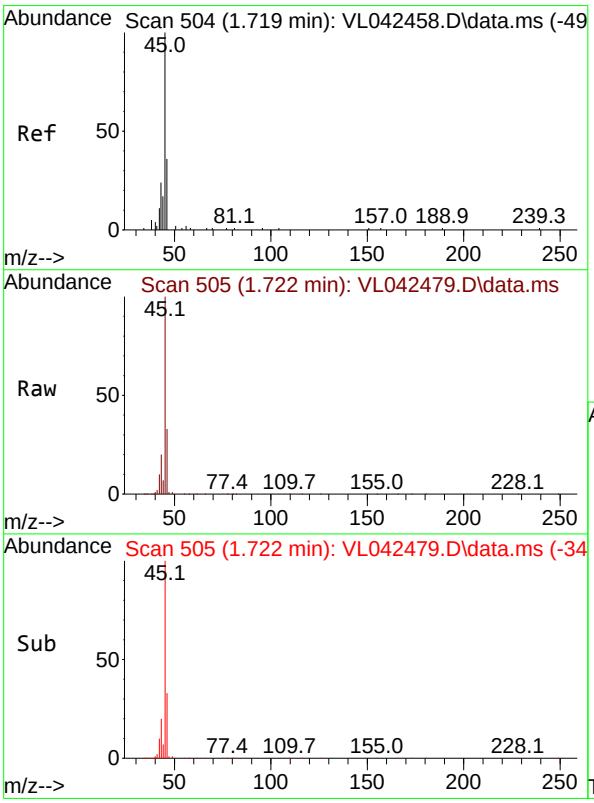
#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.103 ppbv
RT: 2.140 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL042479.D
Acq: 05 May 2025 16:59

Instrument :
MSVOA_L
ClientSampleId :
EBR-P03-SC-IA01-20250428

Tgt Ion:101 Resp: 864

Ion	Ratio	Lower	Upper
101	100		
151	40.5	54.6	82.0#

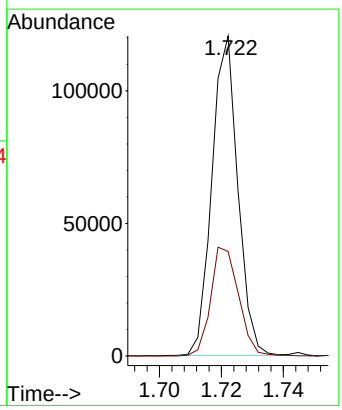


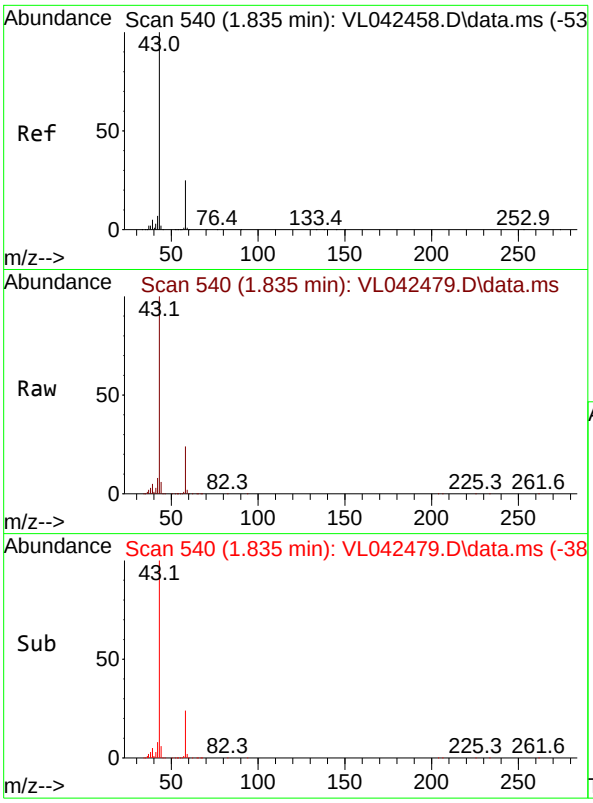


#13
Ethanol
Concen: 87.324 ppbv
RT: 1.722 min Scan# 505
Delta R.T. 0.003 min
Lab File: VL042479.D
Acq: 05 May 2025 16:59

Tgt Ion: 45 Resp: 69923

Ion	Ratio	Lower	Upper
45	100		
46	36.8	15.3	61.1



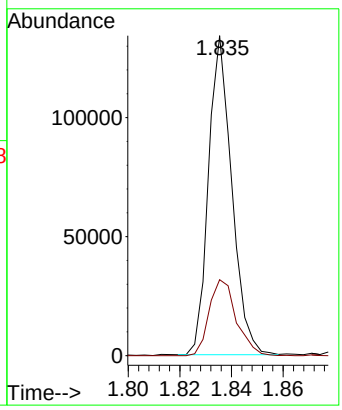


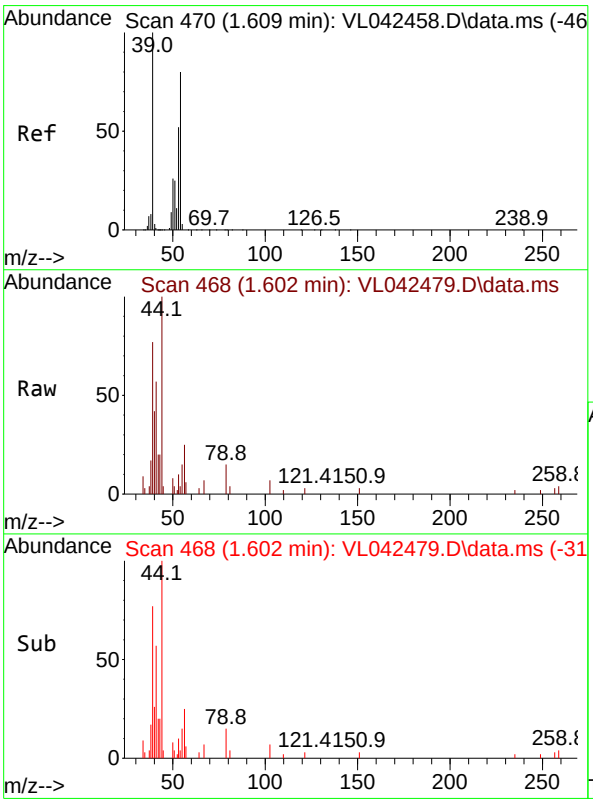
#15
Acetone
Concen: 6.669 ppbv
RT: 1.835 min Scan# 54
Delta R.T. 0.000 min
Lab File: VL042479.D
Acq: 05 May 2025 16:59

Instrument :
MSVOA_L
ClientSampleId :
EBR-P03-SC-IA01-20250428

Tgt Ion: 43 Resp: 83945

Ion	Ratio	Lower	Upper
43	100		
58	27.7	19.8	29.8

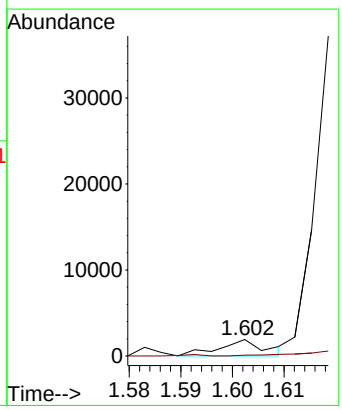


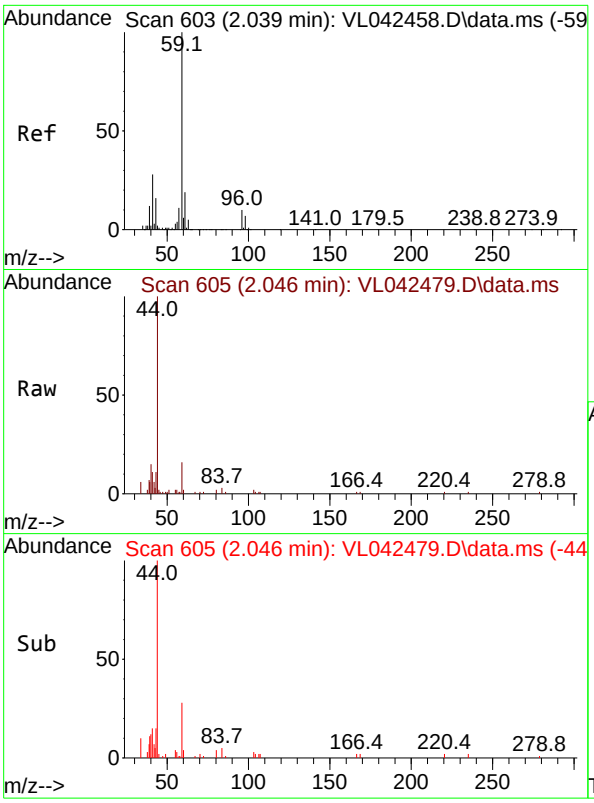


#16
1,3-Butadiene
Concen: 0.211 ppbv
RT: 1.602 min Scan# 468
Delta R.T. -0.006 min
Lab File: VL042479.D
Acq: 05 May 2025 16:59

Tgt Ion: 39 Resp: 1173

Ion	Ratio	Lower	Upper
39	100		
54	0.0	55.2	82.8#



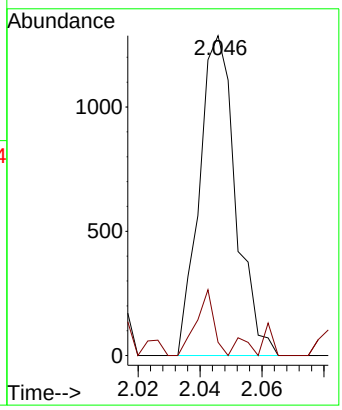


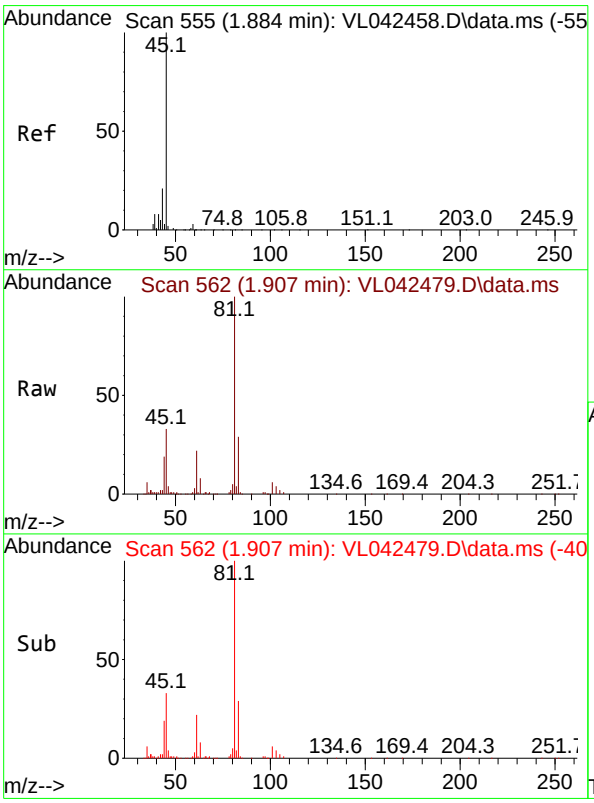
#17
tert-Butyl alcohol
Concen: 0.095 ppbv
RT: 2.046 min Scan# 6
Delta R.T. 0.007 min
Lab File: VL042479.D
Acq: 05 May 2025 16:59

Instrument :
MSVOA_L
ClientSampleId :
EBR-P03-SC-IA01-20250428

Tgt Ion: 59 Resp: 1051

Ion	Ratio	Lower	Upper
59	100		
57	22.0	8.3	12.5#

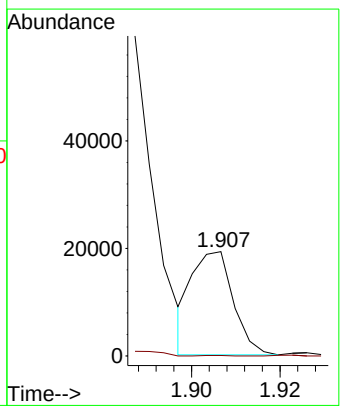


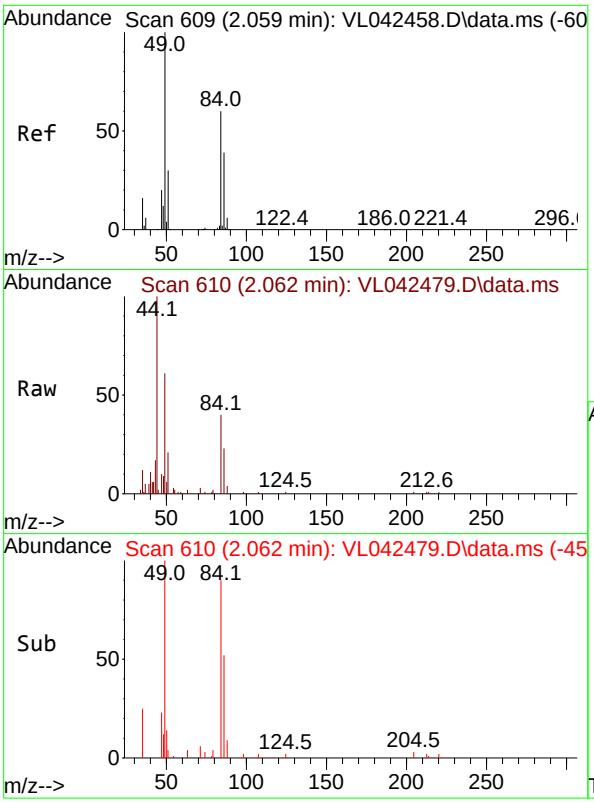


#19
Isopropyl Alcohol
Concen: 1.803 ppbv
RT: 1.907 min Scan# 562
Delta R.T. 0.023 min
Lab File: VL042479.D
Acq: 05 May 2025 16:59

Tgt Ion: 45 Resp: 12559

Ion	Ratio	Lower	Upper
45	100		
58	0.0	1.6	2.4#



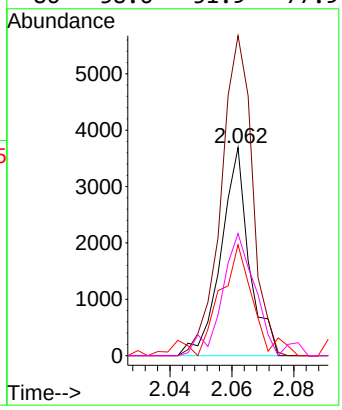


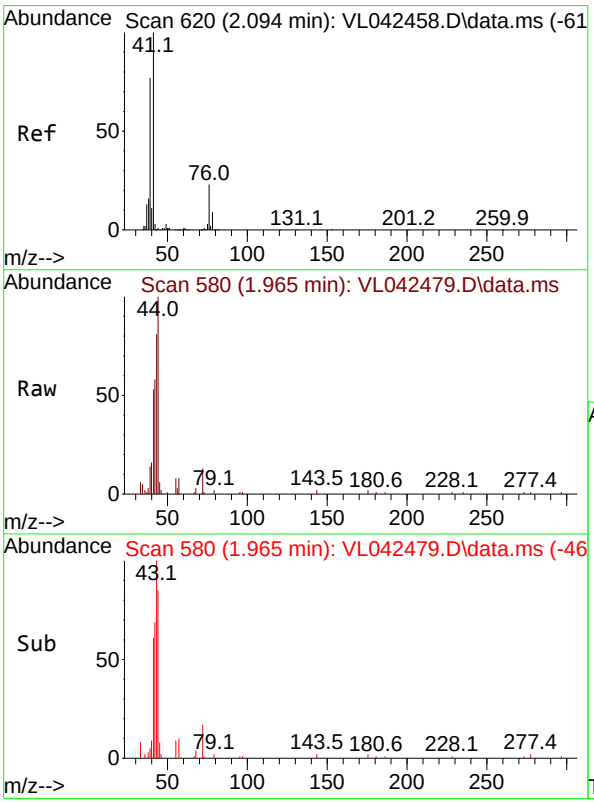
#20
Methylene Chloride
Concen: 0.614 ppbv
RT: 2.062 min Scan# 61
Delta R.T. 0.003 min
Lab File: VL042479.D
Acq: 05 May 2025 16:59

Instrument :
MSVOA_L
ClientSampleId :
EBR-P03-SC-IA01-20250428

Tgt Ion: 84 Resp: 2323

Ion	Ratio	Lower	Upper
84	100		
49	153.7	133.9	200.9
51	45.9	41.0	61.6
86	58.6	51.9	77.9

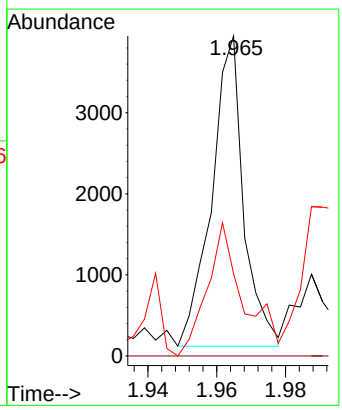


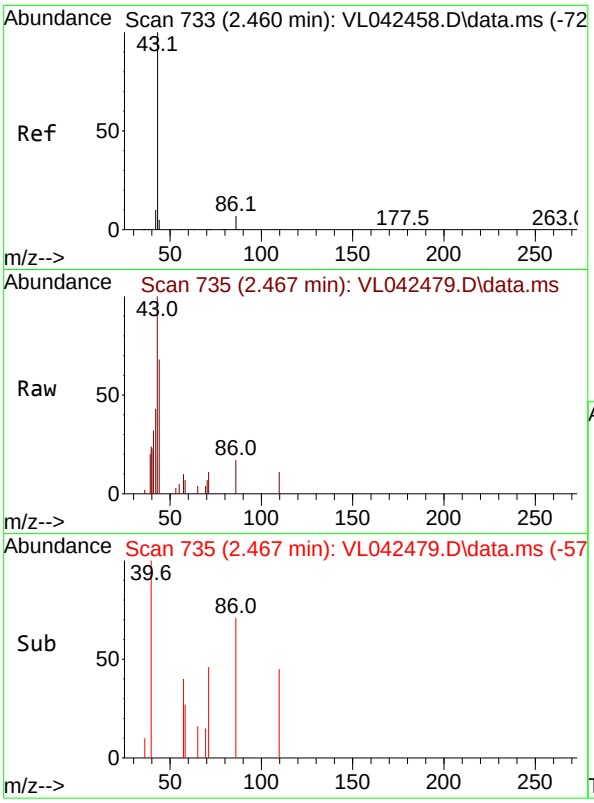


#21
Allyl Chloride
Concen: 0.304 ppbv
RT: 1.965 min Scan# 580
Delta R.T. -0.129 min
Lab File: VL042479.D
Acq: 05 May 2025 16:59

Tgt Ion: 41 Resp: 2461

Ion	Ratio	Lower	Upper
41	100		
76	0.0	19.6	29.4#
39	122.1	61.0	91.4#



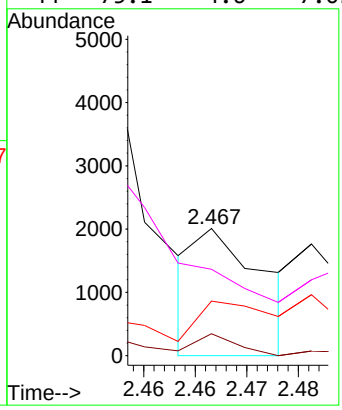


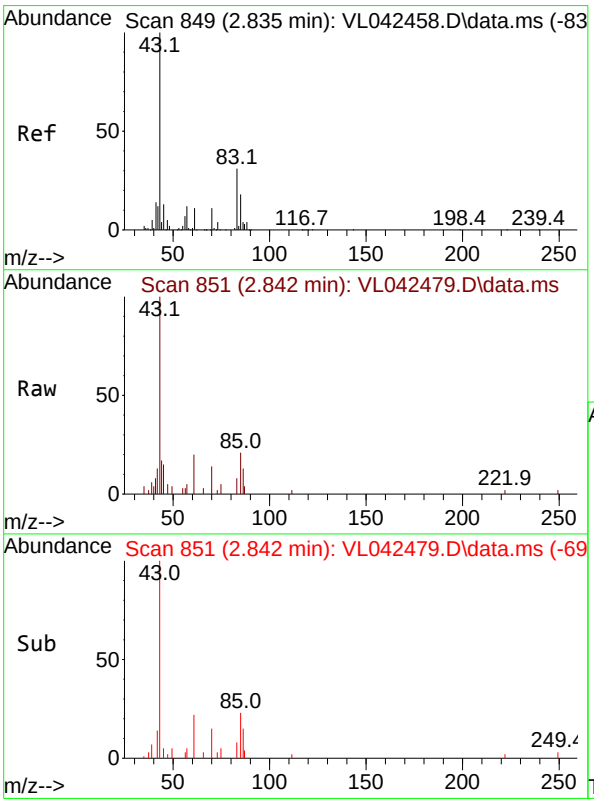
#23
Vinyl Acetate
Concen: 0.076 ppbv
RT: 2.467 min Scan# 7
Delta R.T. 0.007 min
Lab File: VL042479.D
Acq: 05 May 2025 16:59

Instrument :
MSVOA_L
ClientSampleId :
EBR-P03-SC-IA01-20250428

Tgt Ion: 43 Resp: 914

Ion	Ratio	Lower	Upper
43	100		
86	49.7	5.5	8.3#
42	91.8	8.3	12.5#
44	75.1	4.6	7.0#

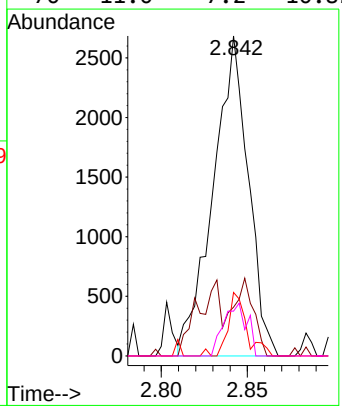


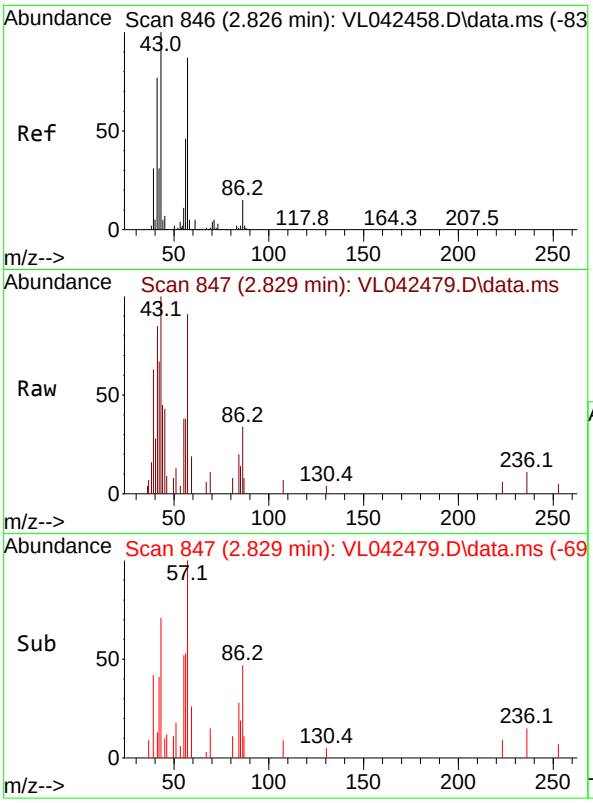


#25
Ethyl Acetate
Concen: 0.189 ppbv
RT: 2.842 min Scan# 851
Delta R.T. 0.007 min
Lab File: VL042479.D
Acq: 05 May 2025 16:59

Tgt Ion: 43 Resp: 3810

Ion	Ratio	Lower	Upper
43	100		
45	30.0	7.8	11.6#
61	10.4	7.2	10.8
70	11.0	7.2	10.8#



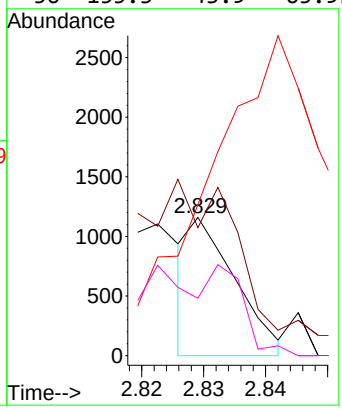


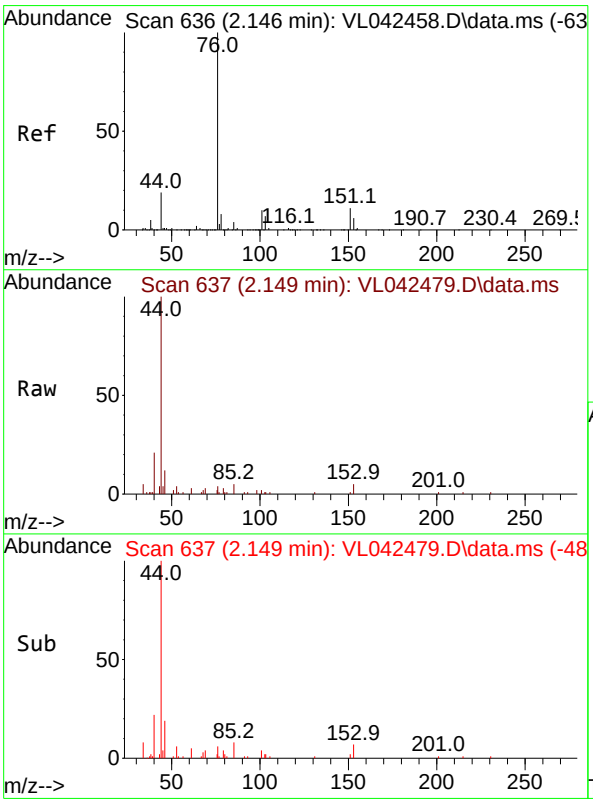
#26
Hexane
Concen: 0.069 ppbv
RT: 2.829 min Scan# 84
Delta R.T. 0.003 min
Lab File: VL042479.D
Acq: 05 May 2025 16:59

Instrument :
MSVOA_L
ClientSampleId :
EBR-P03-SC-IA01-20250428

Tgt Ion: 57 Resp: 602

Ion	Ratio	Lower	Upper
57	100		
41	326.7	77.8	116.8#
43	0.0	187.0	280.6#
56	155.3	43.9	65.9#

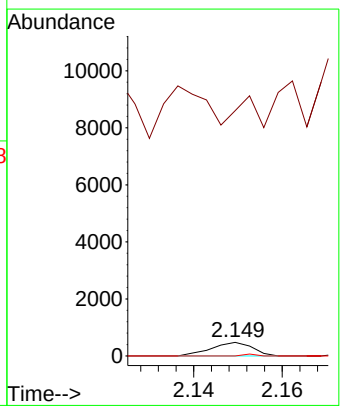


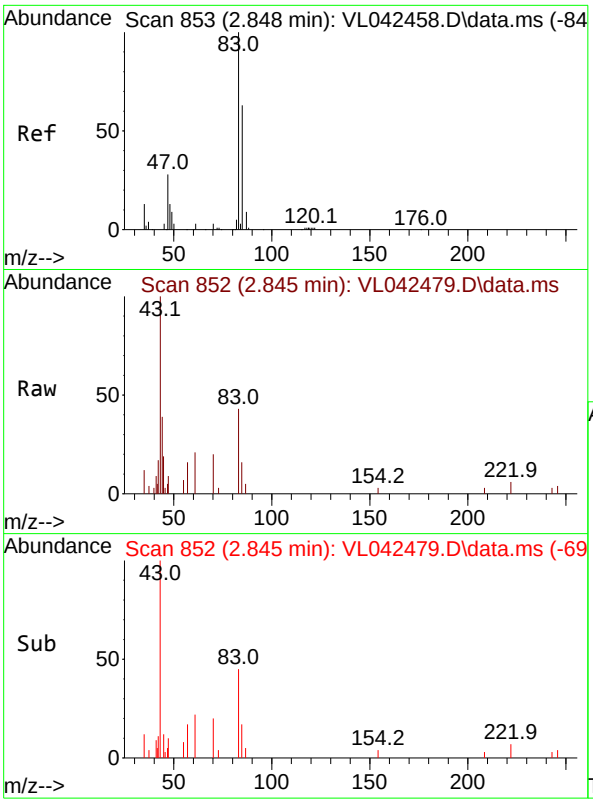


#27
Carbon Disulfide
Concen: 0.030 ppbv
RT: 2.149 min Scan# 637
Delta R.T. 0.003 min
Lab File: VL042479.D
Acq: 05 May 2025 16:59

Tgt Ion: 76 Resp: 309

Ion	Ratio	Lower	Upper
76	100		
44	12179.0	21.0	31.6#
78	0.0	8.6	13.0#



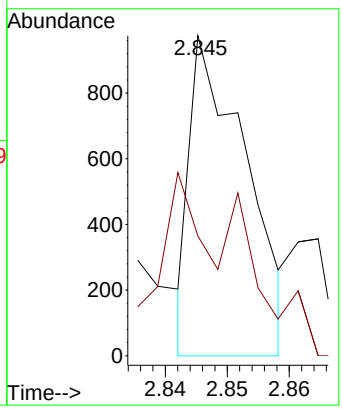


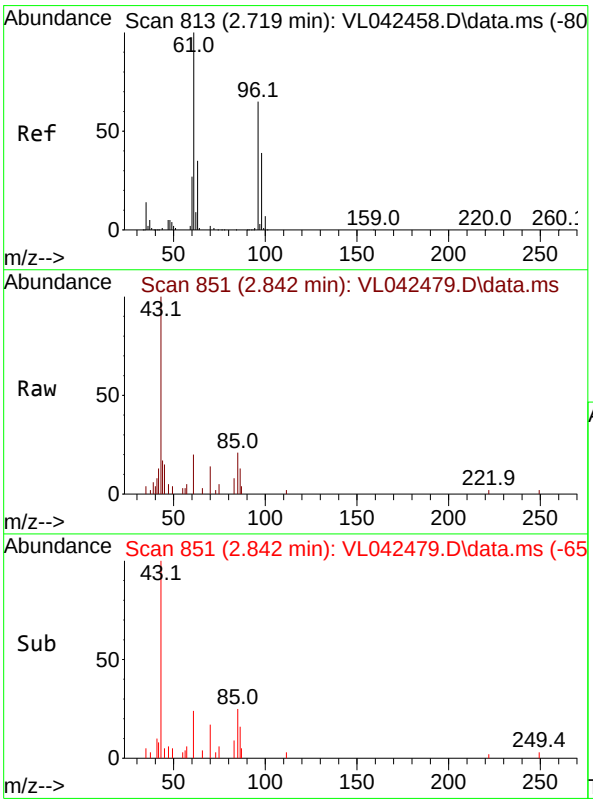
#29
Chloroform
Concen: 0.037 ppbv
RT: 2.845 min Scan# 8
Delta R.T. -0.003 min
Lab File: VL042479.D
Acq: 05 May 2025 16:59

Instrument :
MSVOA_L
ClientSampleId :
EBR-P03-SC-IA01-20250428

Tgt Ion: 83 Resp: 615

Ion	Ratio	Lower	Upper
83	100		
85	32.8	50.4	75.6#

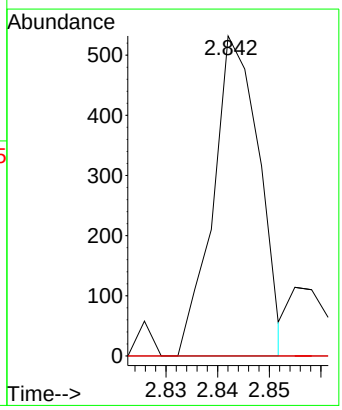


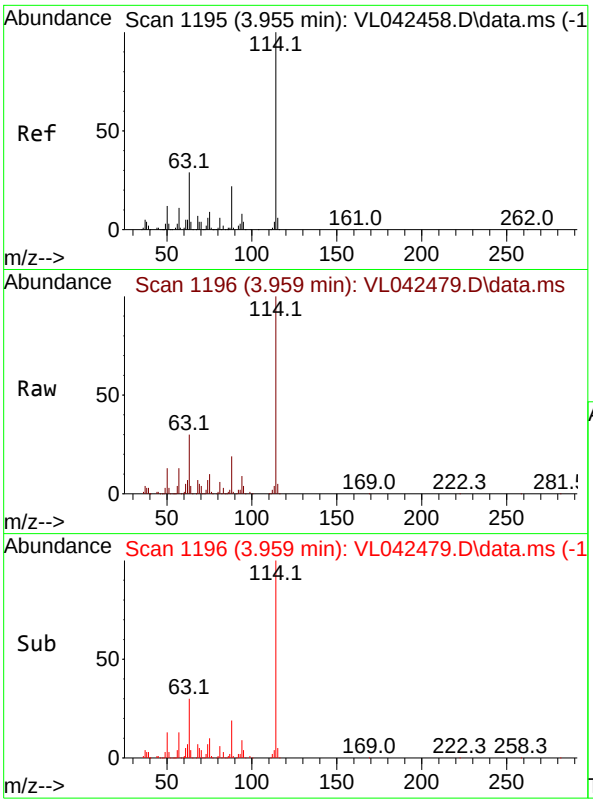


#31
cis-1,2-Dichloroethene
Concen: 0.032 ppbv
RT: 2.842 min Scan# 851
Delta R.T. 0.123 min
Lab File: VL042479.D
Acq: 05 May 2025 16:59

Tgt Ion: 61 Resp: 330

Ion	Ratio	Lower	Upper
61	100		
96	0.0	52.0	78.0#
98	0.0	31.0	46.6#



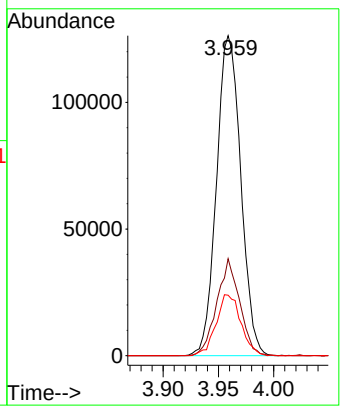


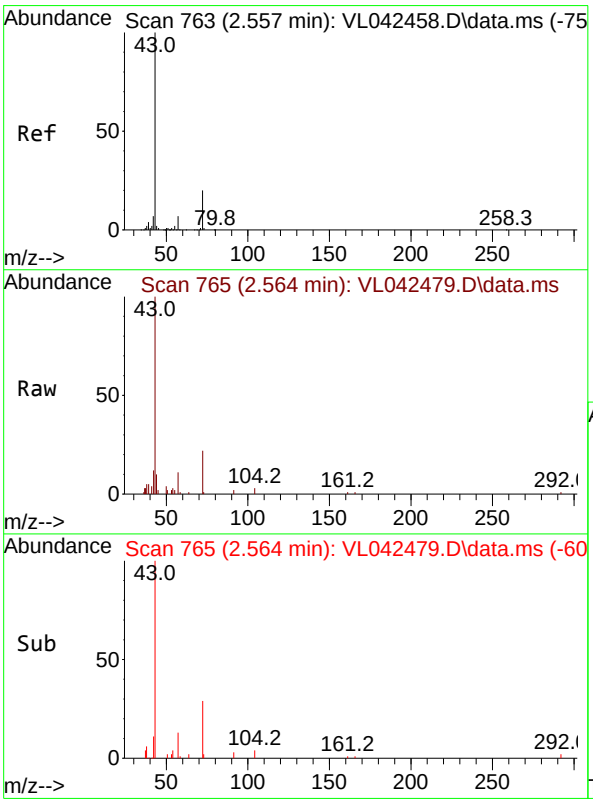
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.959 min Scan# 11
Delta R.T. 0.003 min
Lab File: VL042479.D
Acq: 05 May 2025 16:59

Instrument :
MSVOA_L
ClientSampleId :
EBR-P03-SC-IA01-20250428

Tgt Ion:114 Resp: 192895

Ion	Ratio	Lower	Upper
114	100		
63	28.5	23.1	34.7
88	19.5	16.1	24.1

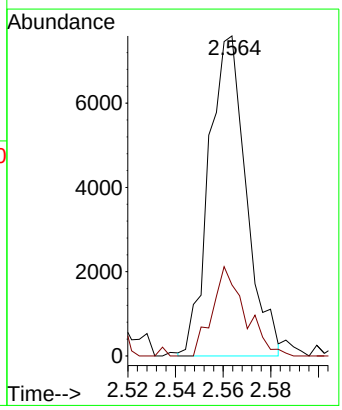


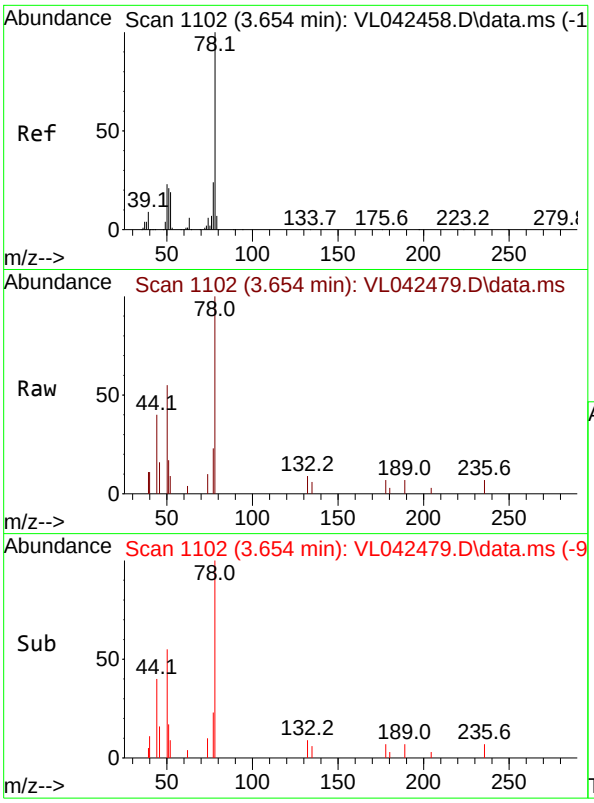


#34
2-Butanone
Concen: 0.589 ppbv
RT: 2.564 min Scan# 765
Delta R.T. 0.007 min
Lab File: VL042479.D
Acq: 05 May 2025 16:59

Tgt Ion: 43 Resp: 8223

Ion	Ratio	Lower	Upper
43	100		
72	24.7	16.7	25.1



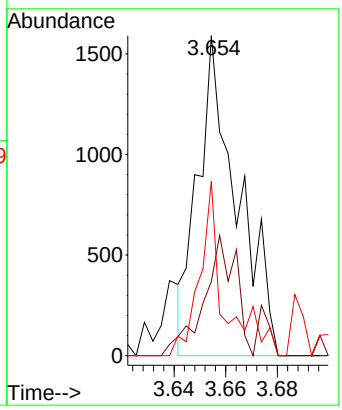


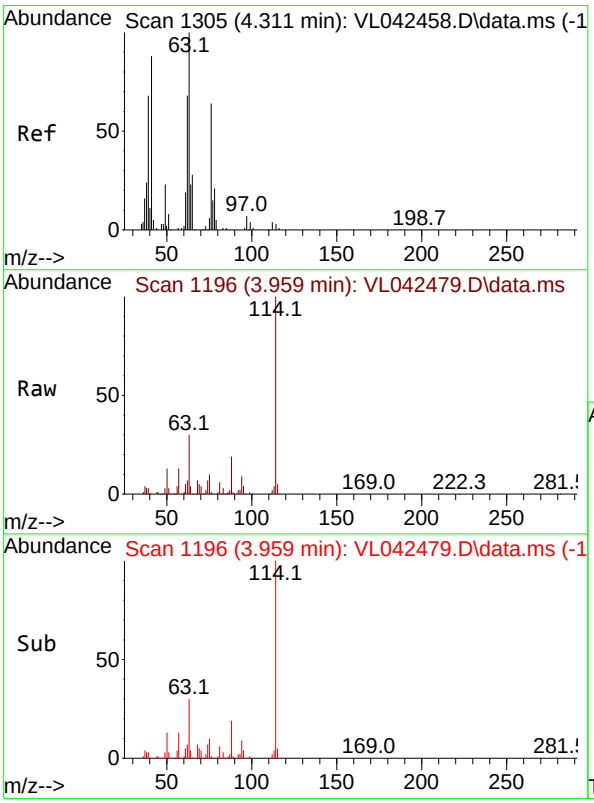
#36
Benzene
Concen: 0.093 ppbv
RT: 3.654 min Scan# 11
Delta R.T. 0.000 min
Lab File: VL042479.D
Acq: 05 May 2025 16:59

Instrument :
MSVOA_L
ClientSampleId :
EBR-P03-SC-IA01-20250428

Tgt Ion: 78 Resp: 1690

Ion	Ratio	Lower	Upper
78	100		
77	23.1	18.9	28.3
50	54.6	18.4	27.6#

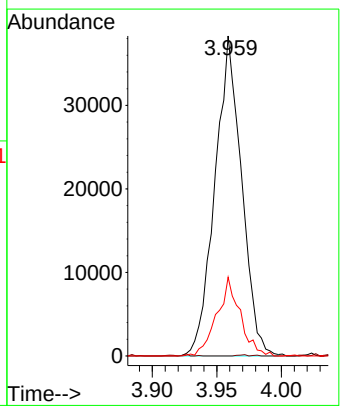


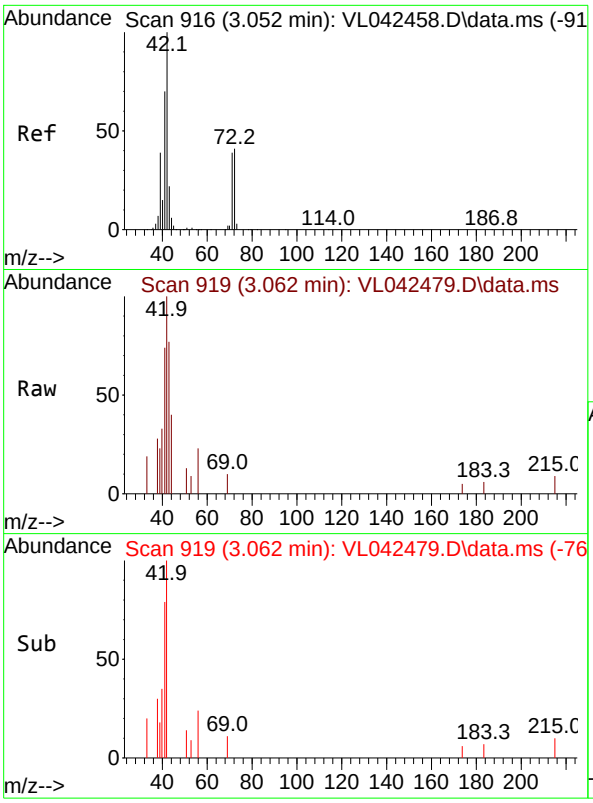


#39
1,2-Dichloropropane
Concen: 8.073 ppbv
RT: 3.959 min Scan# 1196
Delta R.T. -0.353 min
Lab File: VL042479.D
Acq: 05 May 2025 16:59

Tgt Ion: 63 Resp: 55014

Ion	Ratio	Lower	Upper
63	100		
41	0.0	69.8	104.6#
62	24.6	54.3	81.5#



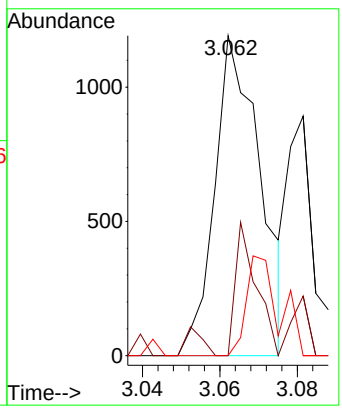


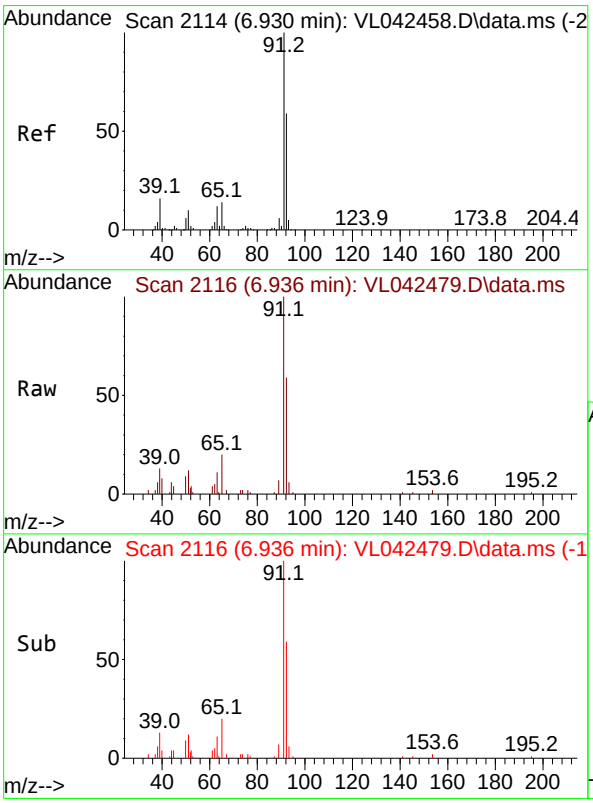
#41
Tetrahydrofuran
Concen: 0.146 ppbv
RT: 3.062 min Scan# 91
Delta R.T. 0.010 min
Lab File: VL042479.D
Acq: 05 May 2025 16:59

Instrument :
MSVOA_L
ClientSampleId :
EBR-P03-SC-IA01-20250428

Tgt Ion: 42 Resp: 970

Ion	Ratio	Lower	Upper
42	100		
72	31.2	33.5	50.3#
71	22.3	32.6	49.0#

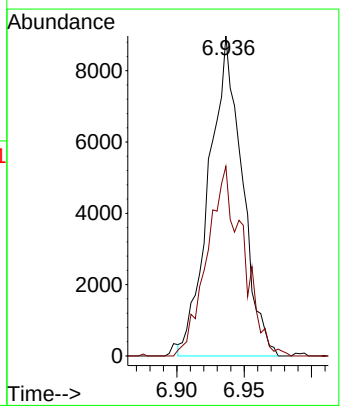


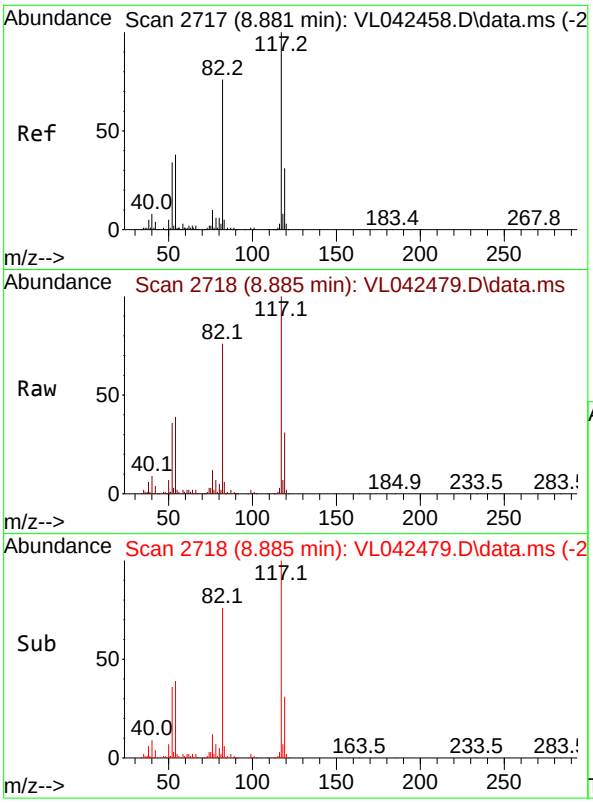


#53
Toluene
Concen: 0.795 ppbv
RT: 6.936 min Scan# 2116
Delta R.T. 0.007 min
Lab File: VL042479.D
Acq: 05 May 2025 16:59

Tgt Ion: 91 Resp: 15313

Ion	Ratio	Lower	Upper
91	100		
92	64.8	47.9	71.9



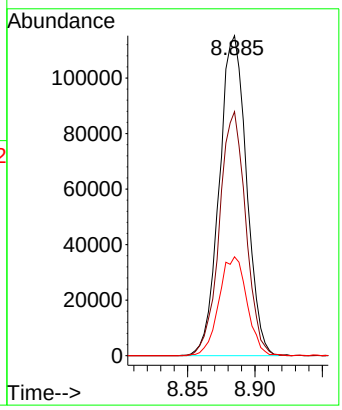


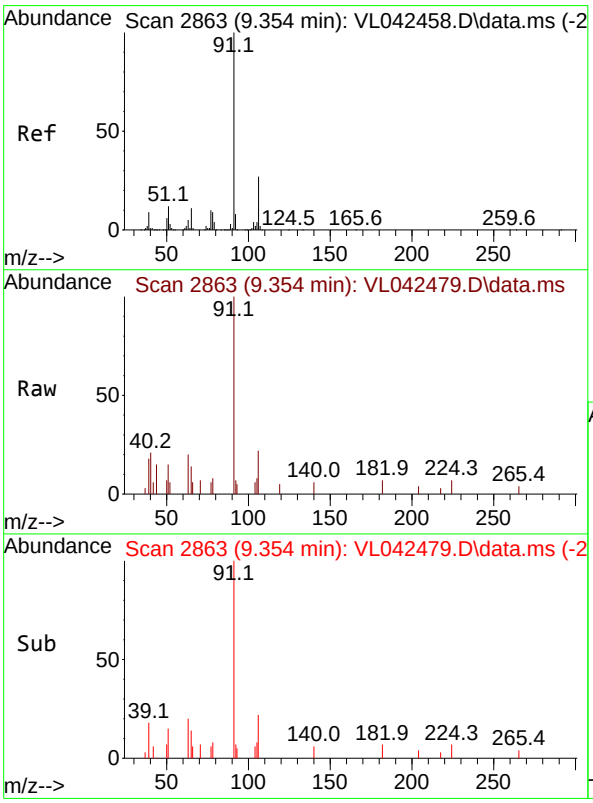
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.885 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042479.D
Acq: 05 May 2025 16:59

Instrument :
MSVOA_L
ClientSampleId :
EBR-P03-SC-IA01-20250428

Tgt Ion:117 Resp: 161884

Ion	Ratio	Lower	Upper
117	100		
82	73.8	63.5	95.3
119	31.9	25.8	38.8

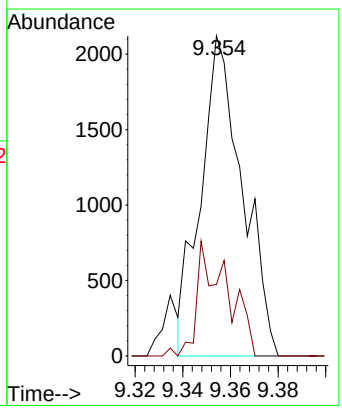


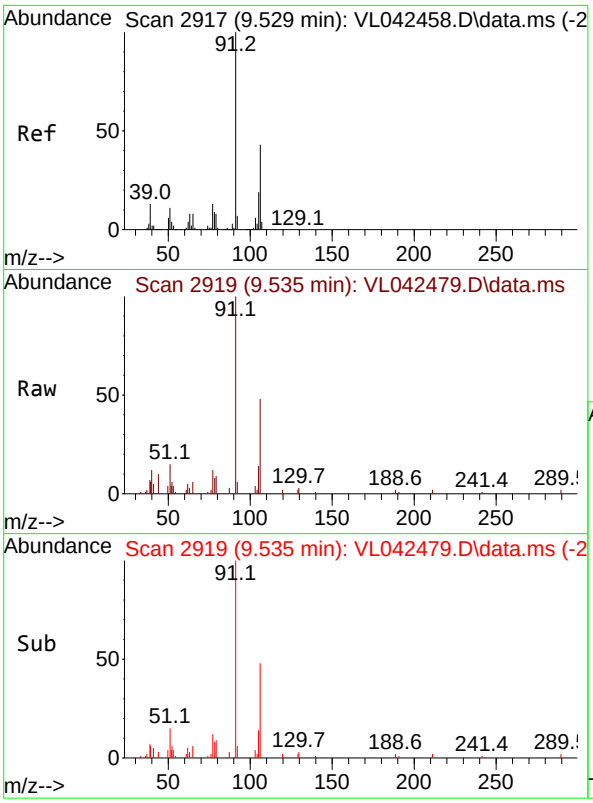


#58
Ethyl Benzene
Concen: 0.096 ppbv
RT: 9.354 min Scan# 2863
Delta R.T. 0.000 min
Lab File: VL042479.D
Acq: 05 May 2025 16:59

Tgt Ion: 91 Resp: 2584

Ion	Ratio	Lower	Upper
91	100		
106	22.3	21.9	32.9



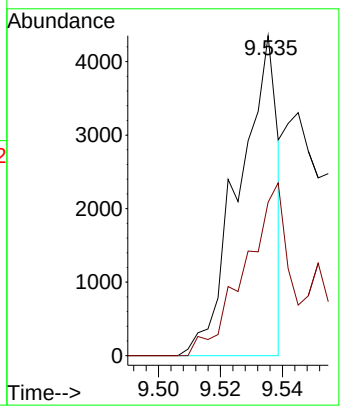


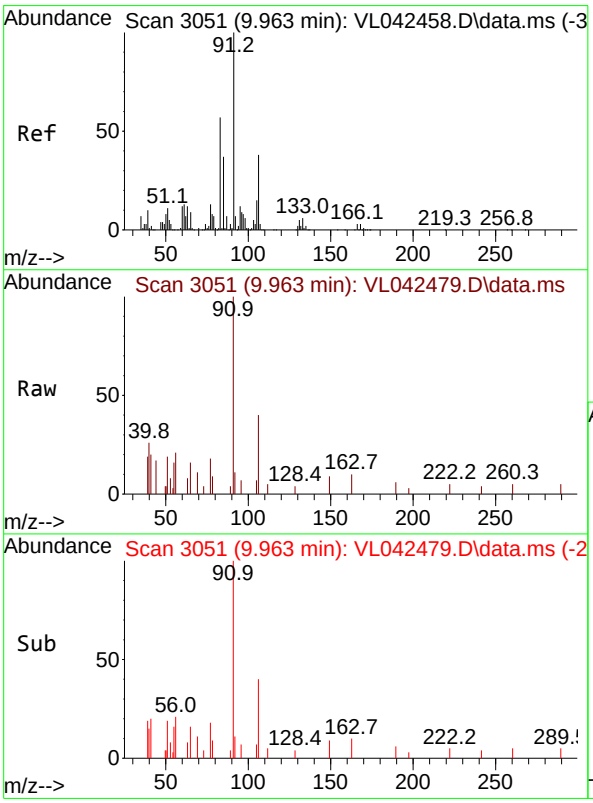
#59
m/p-Xylene
Concen: 0.168 ppbv
RT: 9.535 min Scan# 2
Delta R.T. 0.007 min
Lab File: VL042479.D
Acq: 05 May 2025 16:59

Instrument :
MSVOA_L
ClientSampleId :
EBR-P03-SC-IA01-20250428

Tgt Ion: 91 Resp: 3801

Ion	Ratio	Lower	Upper
91	100		
106	84.2	34.2	51.2#

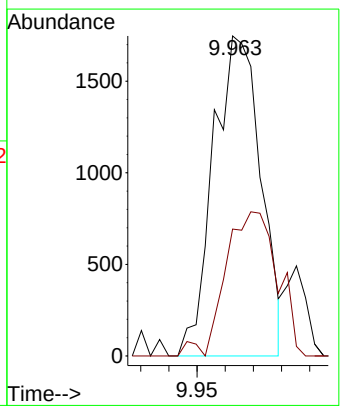


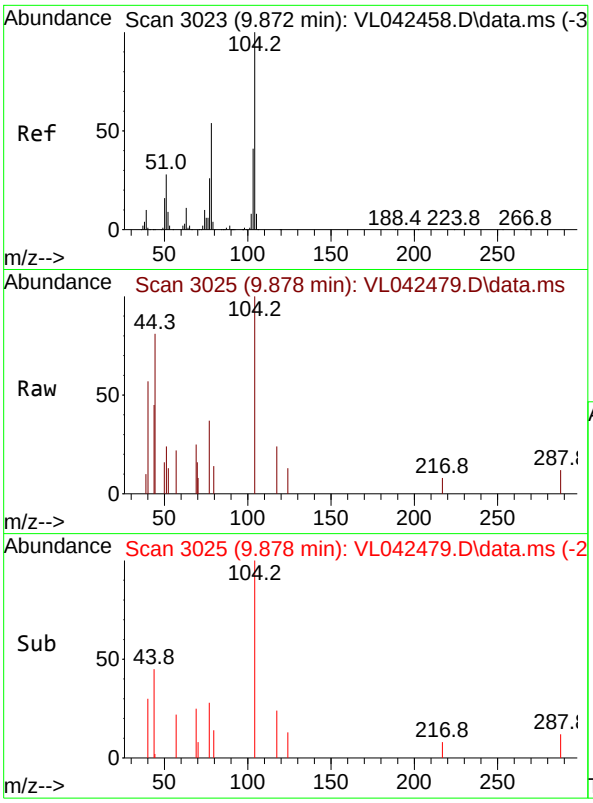


#60
o-Xylene
Concen: 0.090 ppbv
RT: 9.963 min Scan# 3051
Delta R.T. 0.000 min
Lab File: VL042479.D
Acq: 05 May 2025 16:59

Tgt Ion: 91 Resp: 2046

Ion	Ratio	Lower	Upper
91	100		
106	49.5	20.1	60.2



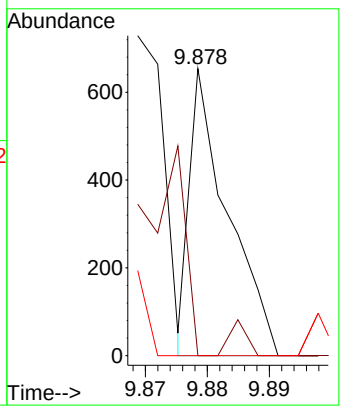


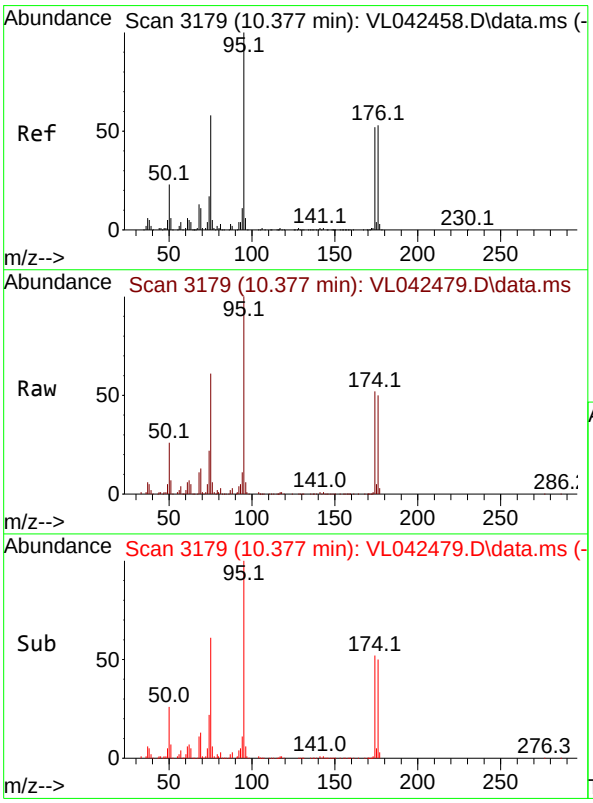
#61
Styrene
Concen: 0.033 ppbv
RT: 9.878 min Scan# 3
Delta R.T. 0.007 min
Lab File: VL042479.D
Acq: 05 May 2025 16:59

Instrument :
MSVOA_L
ClientSampleId :
EBR-P03-SC-IA01-20250428

Tgt Ion:104 Resp: 281

Ion	Ratio	Lower	Upper
104	100		
78	92.9	46.9	70.3#
103	0.0	36.6	55.0#

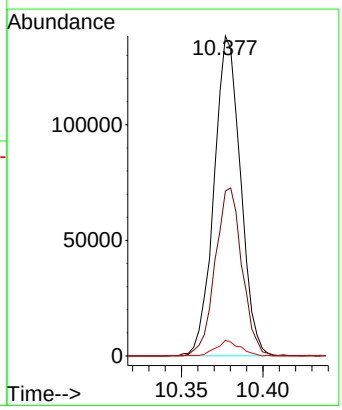


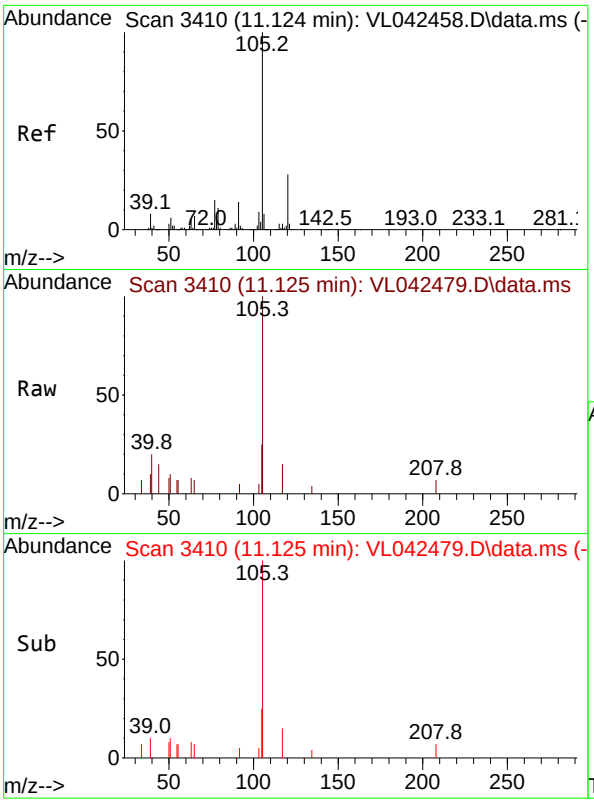


#68
1-Bromo-4-Fluorobenzene
Concen: 10.399 ppbv
RT: 10.377 min Scan# 3179
Delta R.T. 0.000 min
Lab File: VL042479.D
Acq: 05 May 2025 16:59

Tgt Ion: 95 Resp: 156074

Ion	Ratio	Lower	Upper
95	100		
174	53.4	42.7	64.1
175	4.5	3.6	5.4



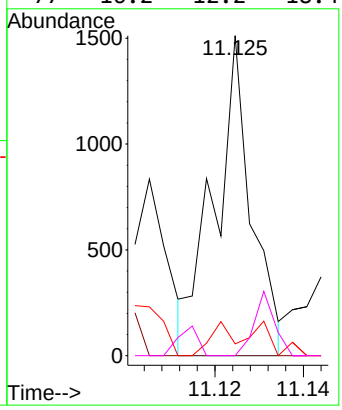


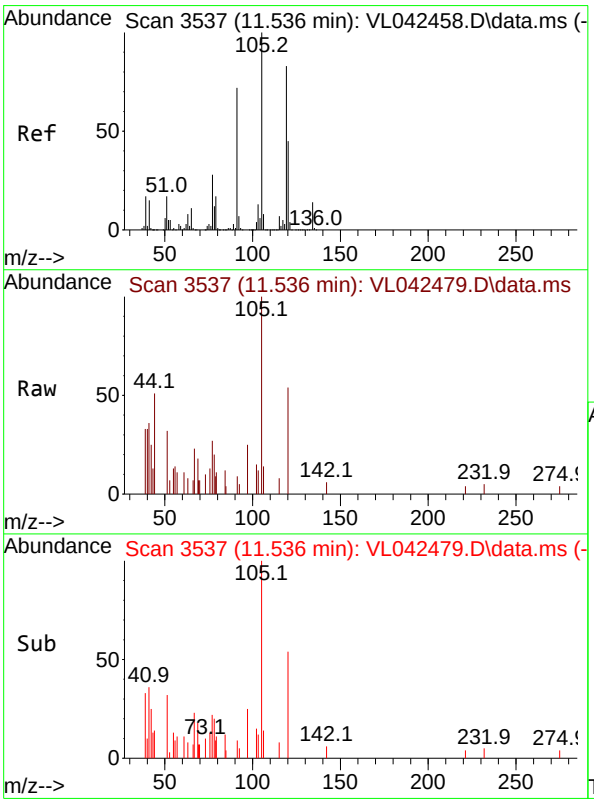
#72
4-Ethyltoluene
Concen: 0.032 ppbv
RT: 11.125 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042479.D
Acq: 05 May 2025 16:59

Instrument :
MSVOA_L
ClientSampleId :
EBR-P03-SC-IA01-20250428

Tgt Ion:105 Resp: 870

Ion	Ratio	Lower	Upper
105	100		
120	0.0	22.0	33.0#
91	0.0	11.2	16.8#
77	16.2	12.2	18.4

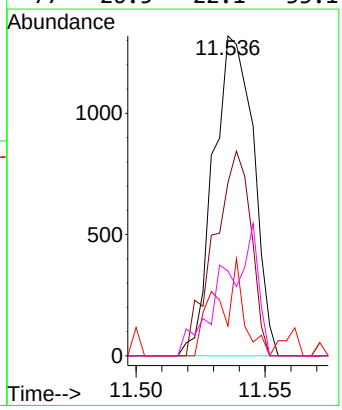




#74
1,2,4-Trimethylbenzene
Concen: 0.050 ppbv
RT: 11.536 min Scan# 3537
Delta R.T. 0.000 min
Lab File: VL042479.D
Acq: 05 May 2025 16:59

Tgt Ion:105 Resp: 1425

Ion	Ratio	Lower	Upper
105	100		
120	54.1	36.1	54.1#
91	9.3	57.6	86.4#
77	26.5	22.1	33.1



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050525\
Data File : VL042481.D
Acq On : 05 May 2025 18:06
Operator : SY/MD
Sample : Q1927-05
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
EBR-P07-SC-IA01-20250428

Quant Time: May 06 01:44:38 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri May 02 03:16:31 2025
Response via : Initial Calibration

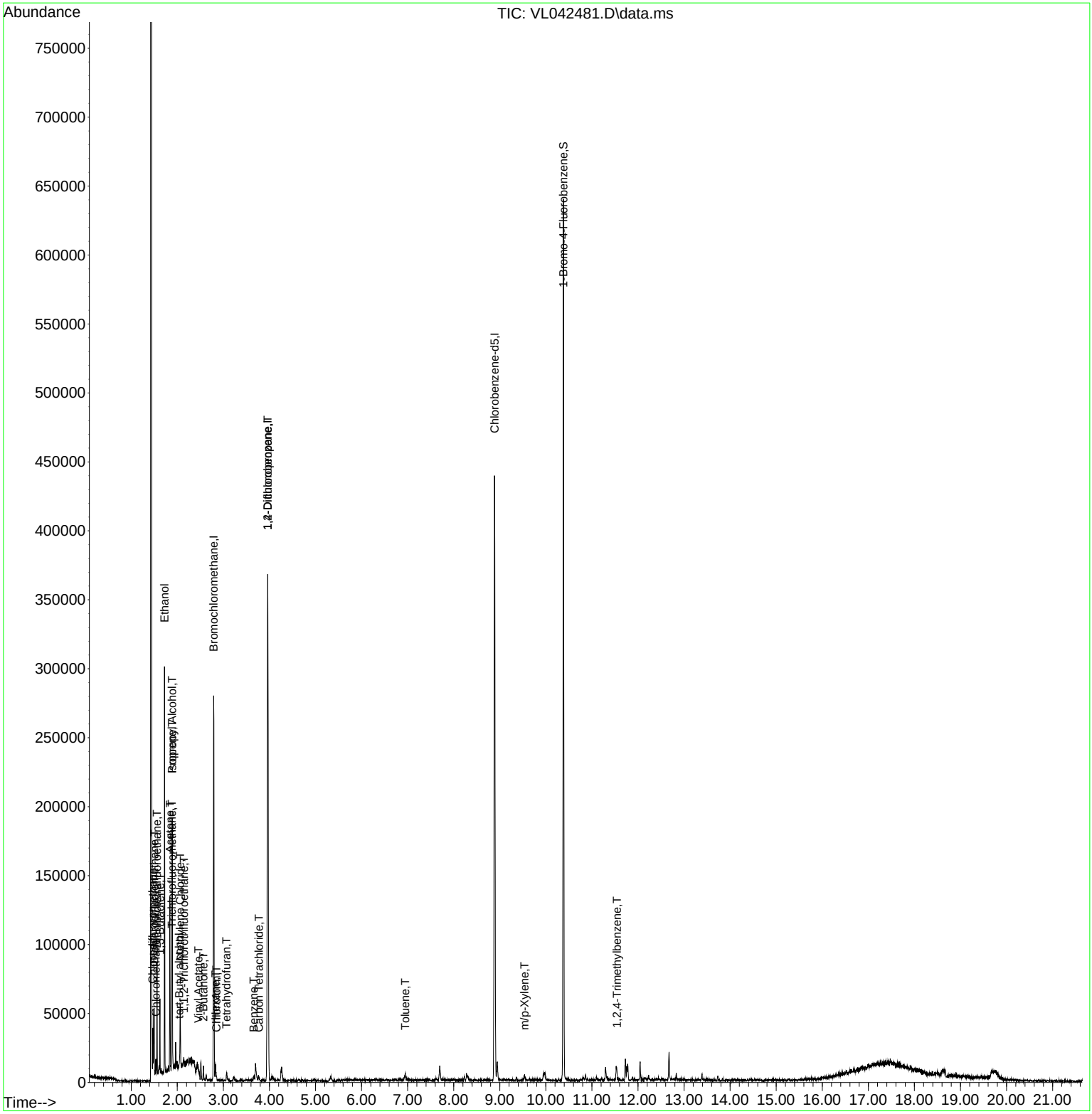
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.790	49	68224	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	186800	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.888	117	160233	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.380	95	147117	9.903	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 99.000%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	9574	0.848	ppbv	93
3) Chlorodifluoromethane	1.466	51	11280	0.945	ppbv #	67
4) Chloromethane	1.531	50	2964	0.628	ppbv	96
8) Dichlorotetrafluoroethane	1.557	85	394	0.042	ppbv #	79
9) Propene	1.887	41	6936	1.777	ppbv	99
11) Trichlorofluoromethane	1.881	101	10543	1.012	ppbv	92
12) 1,1,2-Trichlorotrifluo...	2.143	101	659	0.079	ppbv #	50
13) Ethanol	1.722	45	95194	120.149	ppbv	98
15) Acetone	1.839	43	53121	4.265	ppbv	93
16) 1,3-Butadiene	1.622	39	2967	0.540	ppbv #	15
17) tert-Butyl alcohol	2.042	59	1731	0.158	ppbv #	94
19) Isopropyl Alcohol	1.887	45	69736	10.117	ppbv	100
20) Methylene Chloride	2.065	84	6011	1.605	ppbv	96
23) Vinyl Acetate	2.457	43	4353	0.366	ppbv #	71
26) Hexane	2.829	57	1635	0.188	ppbv #	46
29) Chloroform	2.848	83	505	0.031	ppbv #	67
34) 2-Butanone	2.567	43	4742	0.351	ppbv	92
35) Carbon Tetrachloride	3.768	117	982	0.058	ppbv #	59
36) Benzene	3.661	78	813	0.046	ppbv #	52
39) 1,2-Dichloropropane	3.962	63	53581	8.119	ppbv #	23
41) Tetrahydrofuran	3.068	42	1084	0.169	ppbv #	87
53) Toluene	6.946	91	934	0.050	ppbv #	1
59) m/p-Xylene	9.539	91	1393	0.062	ppbv #	33
74) 1,2,4-Trimethylbenzene	11.545	105	2047	0.073	ppbv #	52

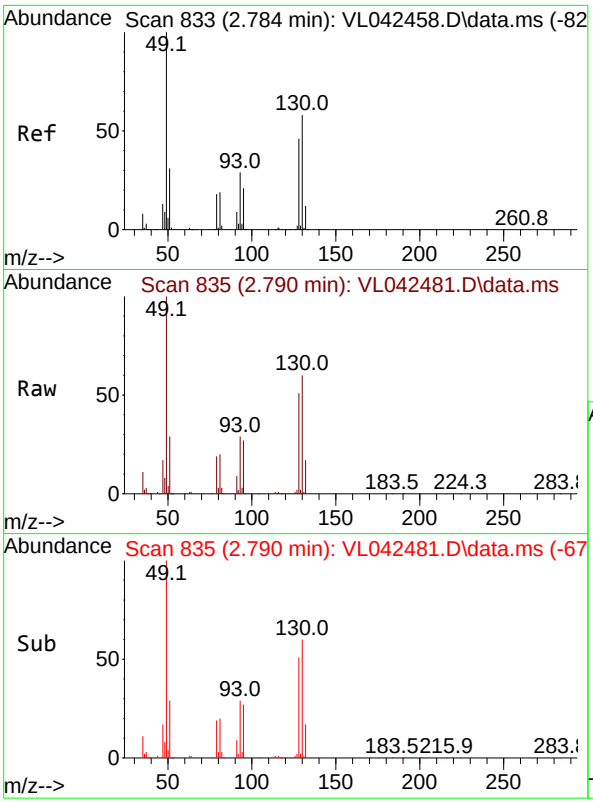
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050525\
Data File : VL042481.D
Acq On : 05 May 2025 18:06
Operator : SY/MD
Sample : Q1927-05
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
EBR-P07-SC-IA01-20250428

Quant Time: May 06 01:44:38 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri May 02 03:16:31 2025
Response via : Initial Calibration



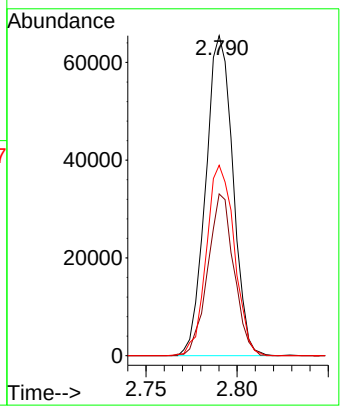


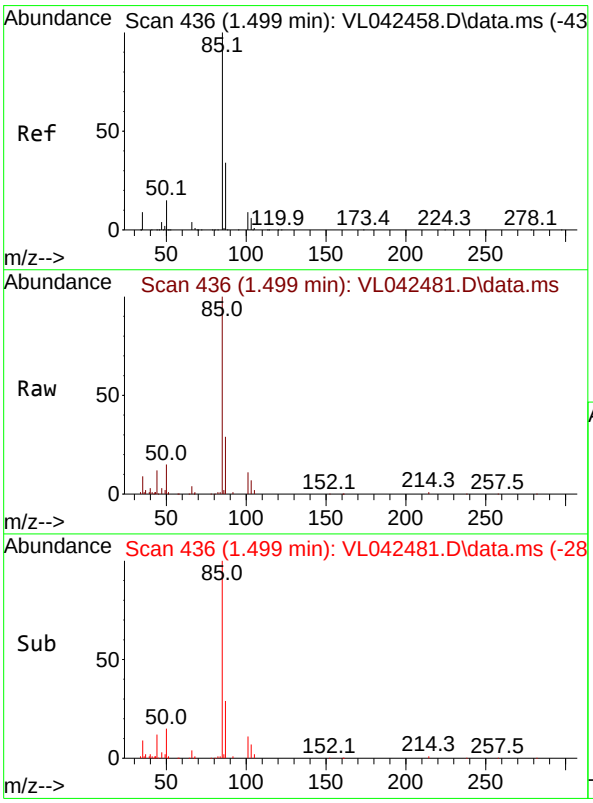
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 8
Delta R.T. 0.006 min
Lab File: VL042481.D
Acq: 05 May 2025 18:06

Instrument :
MSVOA_L
ClientSampleId :
EBR-P07-SC-IA01-20250428

Tgt Ion: 49 Resp: 68224

Ion	Ratio	Lower	Upper
49	100		
128	48.6	23.3	69.9
130	61.0	29.5	88.6

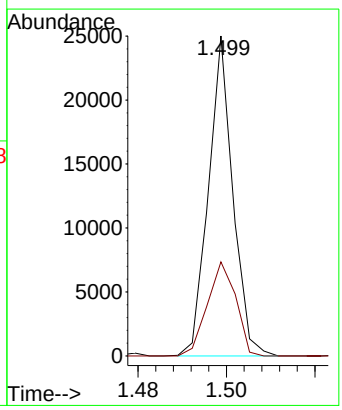


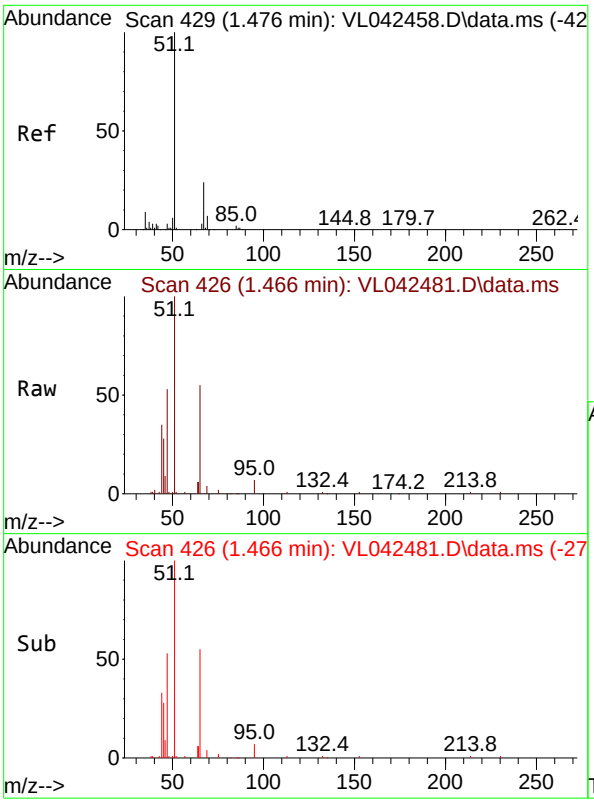


#2
Dichlorodifluoromethane
Concen: 0.848 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.000 min
Lab File: VL042481.D
Acq: 05 May 2025 18:06

Tgt Ion: 85 Resp: 9574

Ion	Ratio	Lower	Upper
85	100		
87	29.4	26.9	40.3



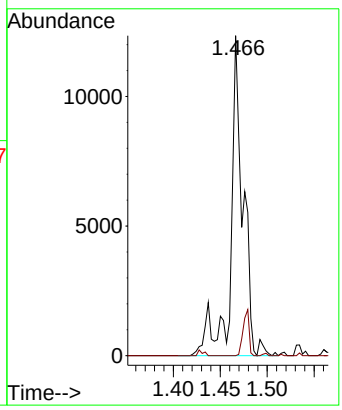


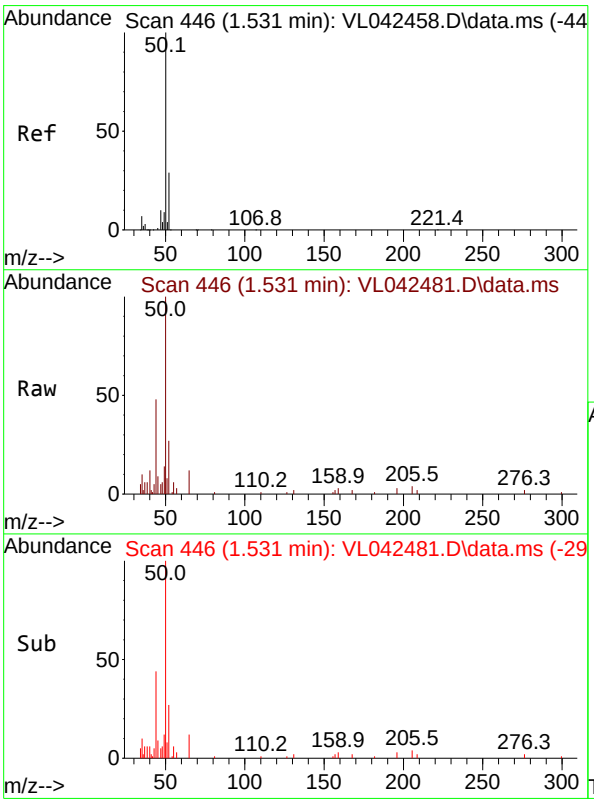
#3
Chlorodifluoromethane
Concen: 0.945 ppbv
RT: 1.466 min Scan# 4
Delta R.T. -0.010 min
Lab File: VL042481.D
Acq: 05 May 2025 18:06

Instrument :
MSVOA_L
ClientSampleId :
EBR-P07-SC-IA01-20250428

Tgt Ion: 51 Resp: 11280

Ion	Ratio	Lower	Upper
51	100		
67	7.2	18.4	27.6#

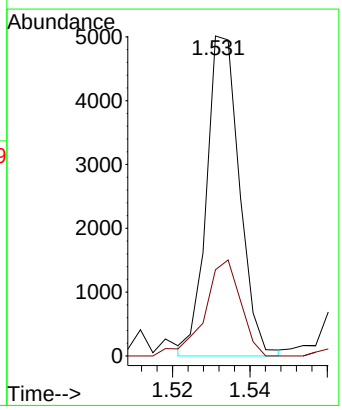


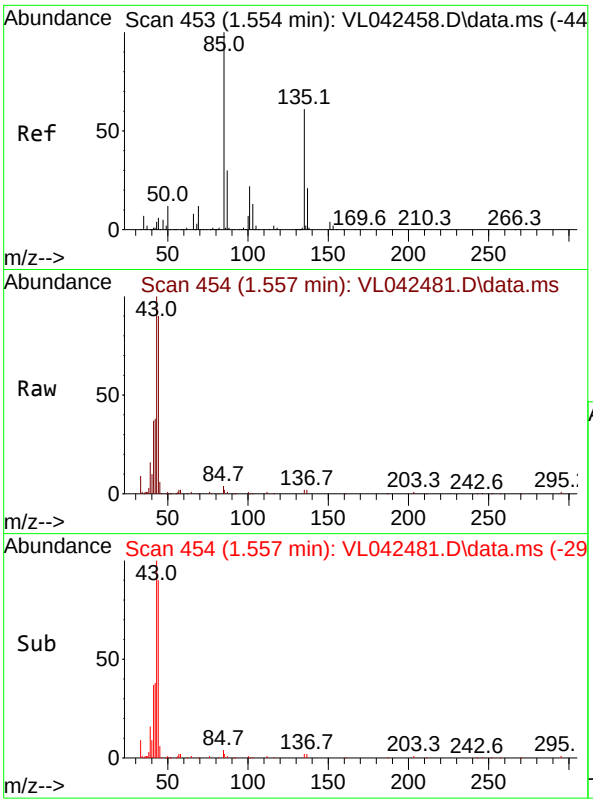


#4
Chloromethane
Concen: 0.628 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL042481.D
Acq: 05 May 2025 18:06

Tgt Ion: 50 Resp: 2964

Ion	Ratio	Lower	Upper
50	100		
52	27.5	23.5	35.3



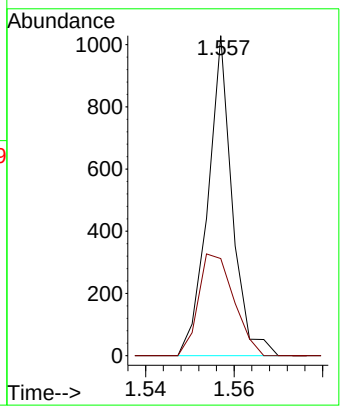


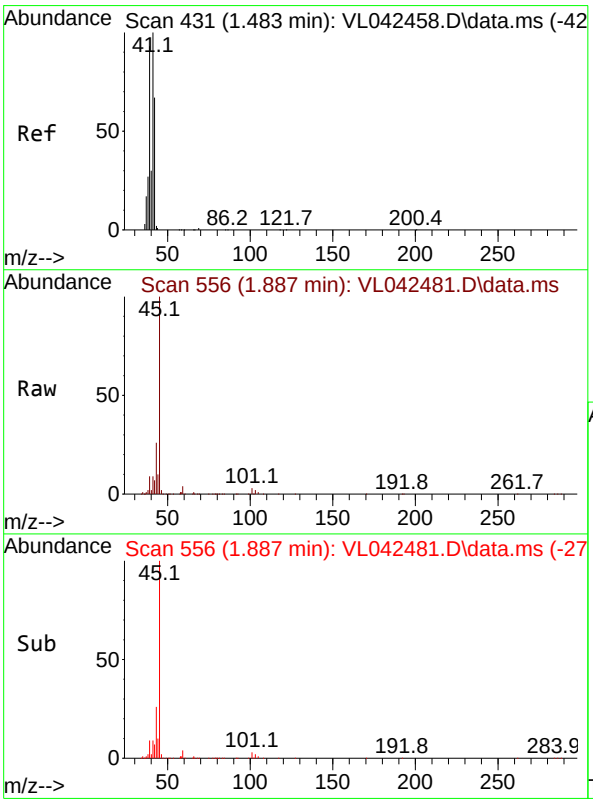
#8
Dichlorotetrafluoroethane
Concen: 0.042 ppbv
RT: 1.557 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL042481.D
Acq: 05 May 2025 18:06

Instrument :
MSVOA_L
ClientSampleId :
EBR-P07-SC-IA01-20250428

Tgt Ion: 85 Resp: 394

Ion	Ratio	Lower	Upper
85	100		
135	46.2	49.8	74.8#

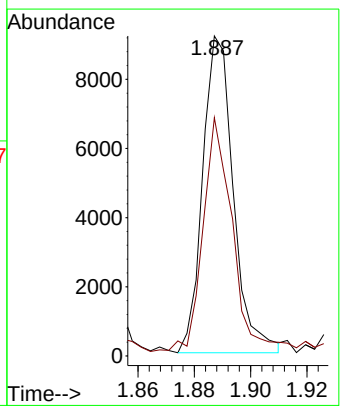


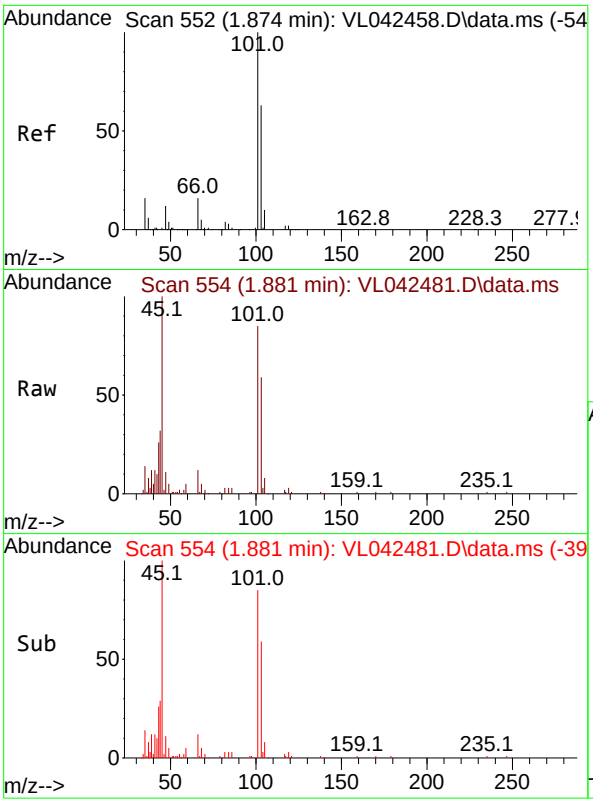


#9
Propene
Concen: 1.777 ppbv
RT: 1.887 min Scan# 556
Delta R.T. 0.405 min
Lab File: VL042481.D
Acq: 05 May 2025 18:06

Tgt Ion: 41 Resp: 6936

Ion	Ratio	Lower	Upper
41	100		
42	68.6	54.3	81.5



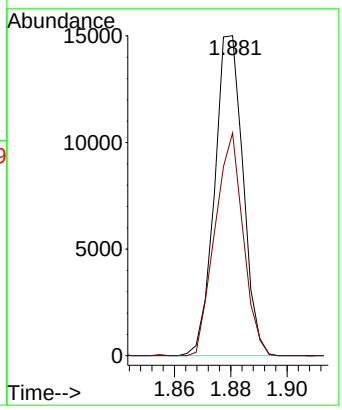


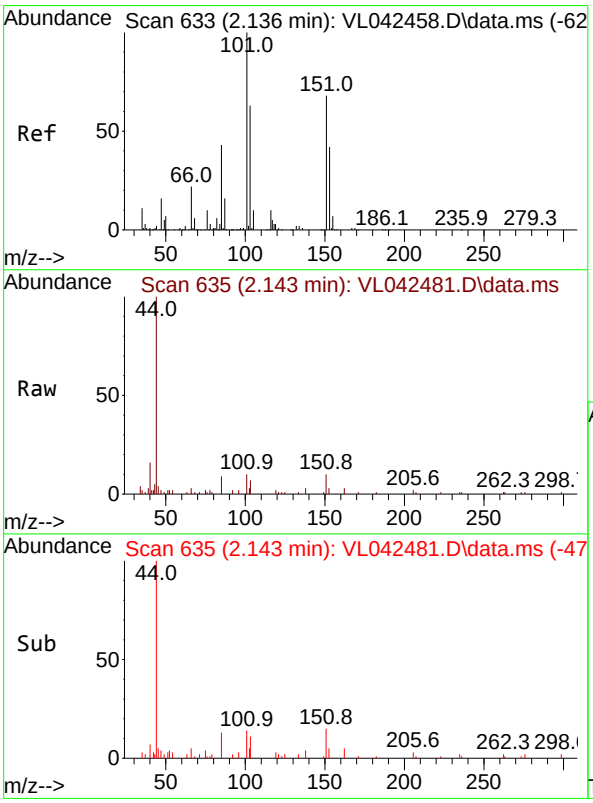
#11
Trichlorofluoromethane
Concen: 1.012 ppbv
RT: 1.881 min Scan# 5
Delta R.T. 0.006 min
Lab File: VL042481.D
Acq: 05 May 2025 18:06

Instrument :
MSVOA_L
ClientSampleId :
EBR-P07-SC-IA01-20250428

Tgt Ion:101 Resp: 10543

Ion	Ratio	Lower	Upper
101	100		
103	69.6	50.6	76.0

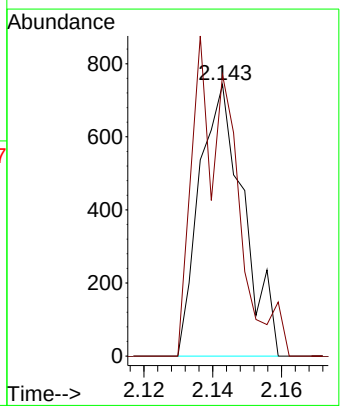


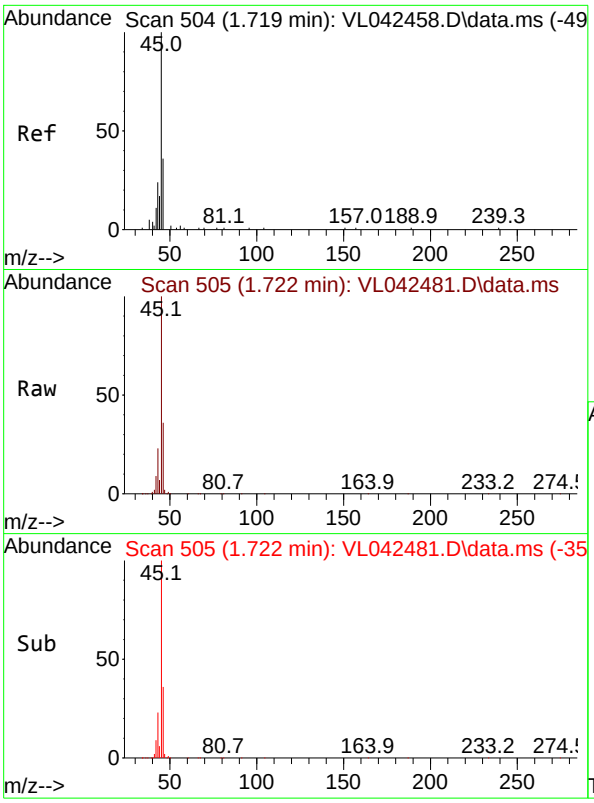


#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.079 ppbv
RT: 2.143 min Scan# 635
Delta R.T. 0.006 min
Lab File: VL042481.D
Acq: 05 May 2025 18:06

Tgt Ion:101 Resp: 659

Ion	Ratio	Lower	Upper
101	100		
151	108.5	54.6	82.0#



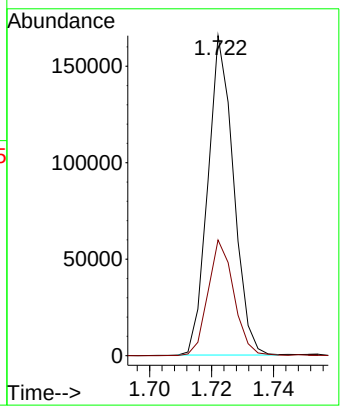


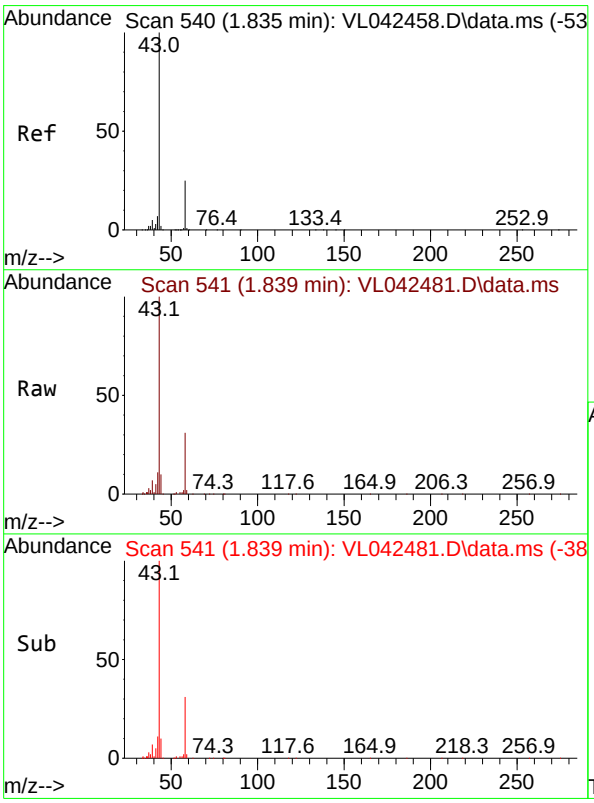
#13
Ethanol
Concen: 120.149 ppbv
RT: 1.722 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042481.D
Acq: 05 May 2025 18:06

Instrument :
MSVOA_L
ClientSampleId :
EBR-P07-SC-IA01-20250428

Tgt Ion: 45 Resp: 95194

Ion	Ratio	Lower	Upper
45	100		
46	36.7	15.3	61.1

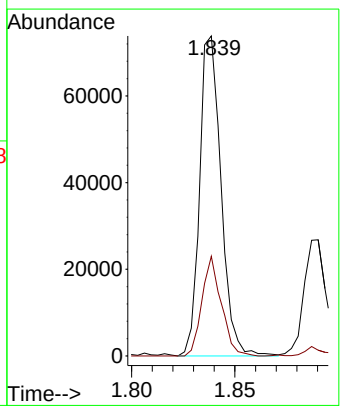


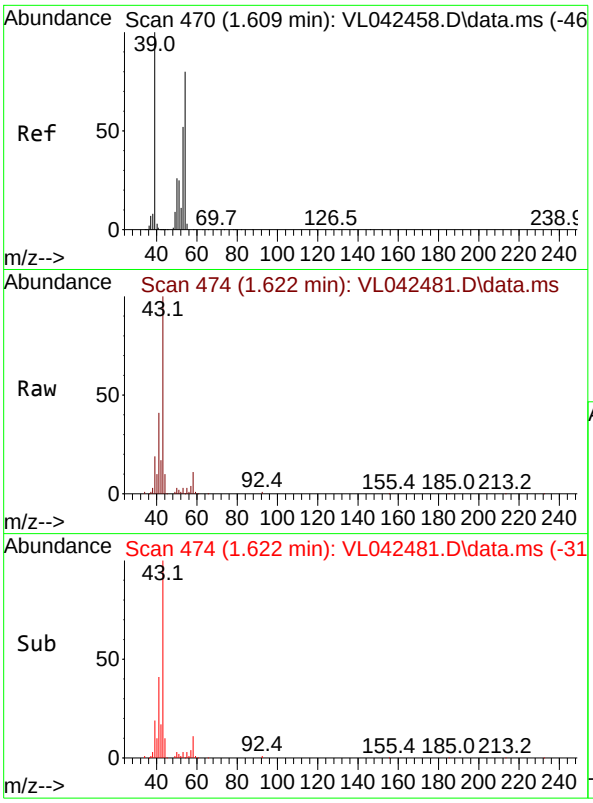


#15
Acetone
Concen: 4.265 ppbv
RT: 1.839 min Scan# 541
Delta R.T. 0.003 min
Lab File: VL042481.D
Acq: 05 May 2025 18:06

Tgt Ion: 43 Resp: 53121

Ion	Ratio	Lower	Upper
43	100		
58	28.1	19.8	29.8



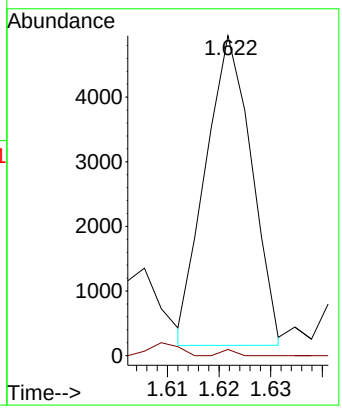


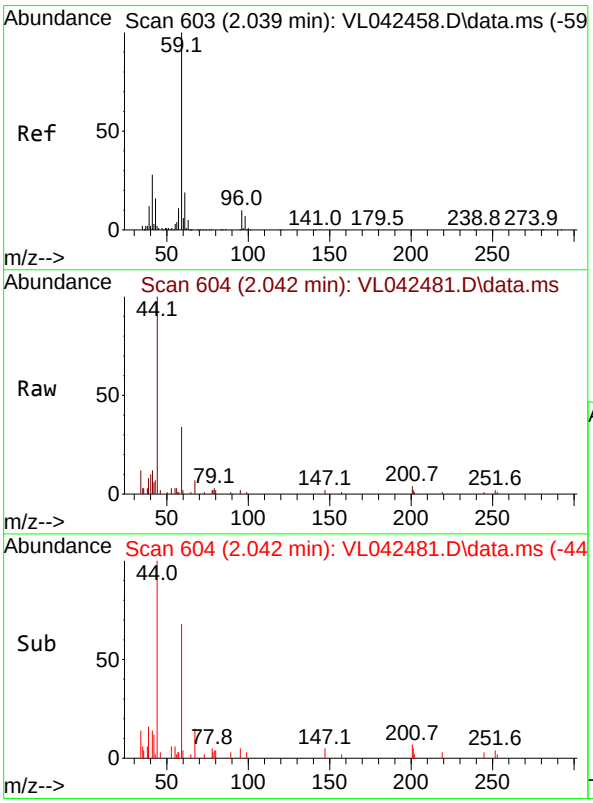
#16
1,3-Butadiene
Concen: 0.540 ppbv
RT: 1.622 min Scan# 4
Delta R.T. 0.013 min
Lab File: VL042481.D
Acq: 05 May 2025 18:06

Instrument :
MSVOA_L
ClientSampleId :
EBR-P07-SC-IA01-20250428

Tgt Ion: 39 Resp: 2967

Ion	Ratio	Lower	Upper
39	100		
54	0.0	55.2	82.8#

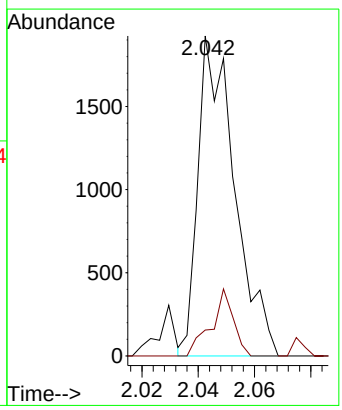


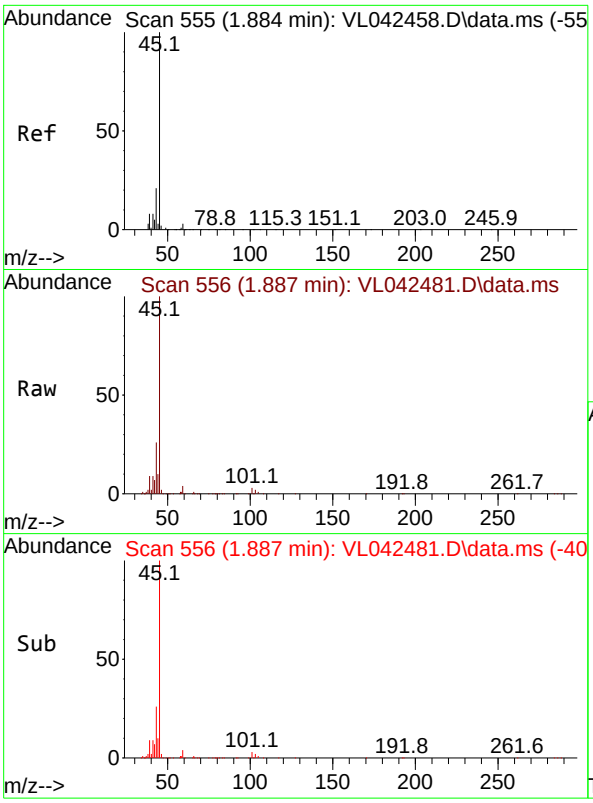


#17
tert-Butyl alcohol
Concen: 0.158 ppbv
RT: 2.042 min Scan# 604
Delta R.T. 0.003 min
Lab File: VL042481.D
Acq: 05 May 2025 18:06

Tgt Ion: 59 Resp: 1731

Ion	Ratio	Lower	Upper
59	100		
57	12.7	8.3	12.5#



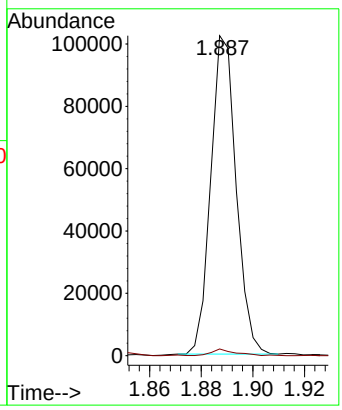


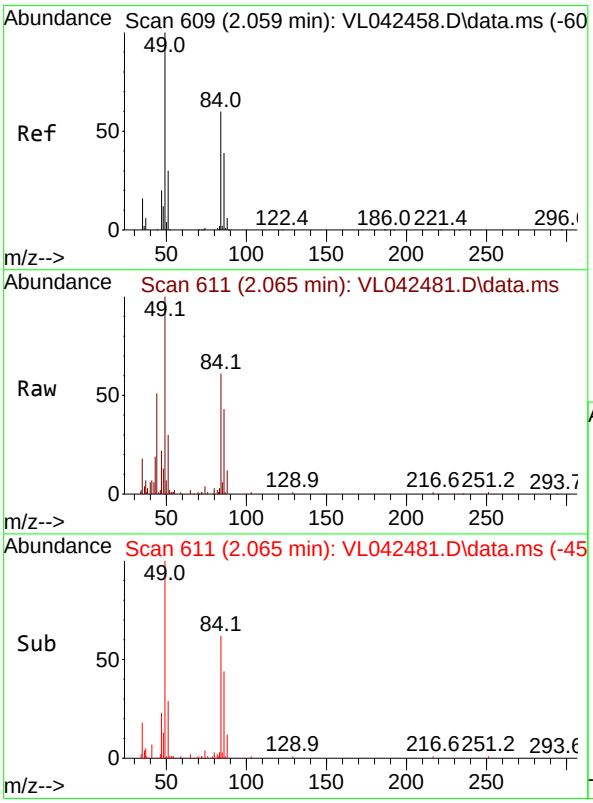
#19
Isopropyl Alcohol
Concen: 10.117 ppbv
RT: 1.887 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042481.D
Acq: 05 May 2025 18:06

Instrument :
MSVOA_L
ClientSampleId :
EBR-P07-SC-IA01-20250428

Tgt Ion: 45 Resp: 69736

Ion	Ratio	Lower	Upper
45	100		
58	2.2	1.6	2.4

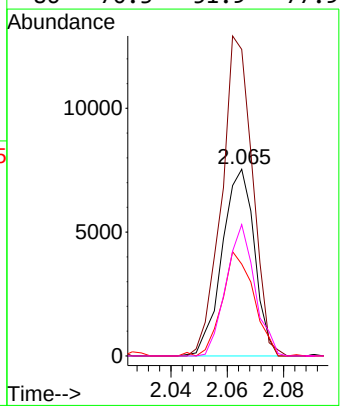


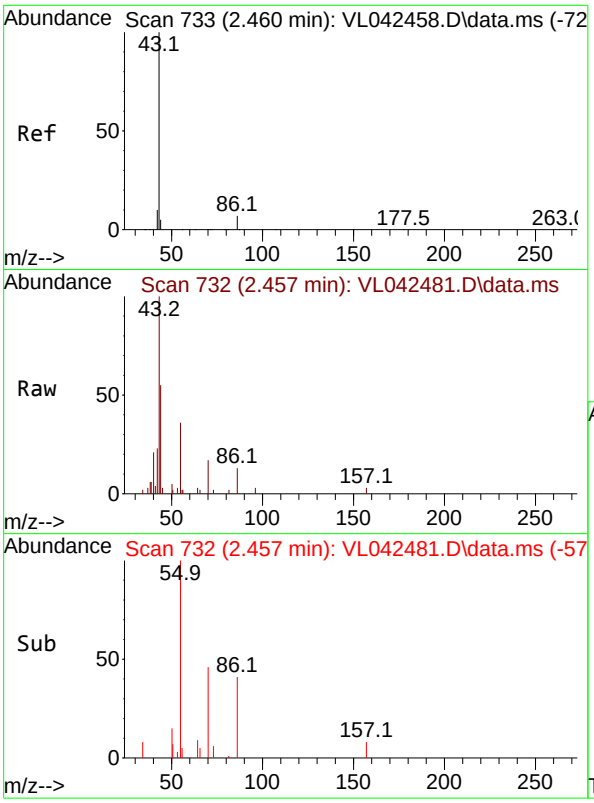


#20
Methylene Chloride
Concen: 1.605 ppbv
RT: 2.065 min Scan# 611
Delta R.T. 0.006 min
Lab File: VL042481.D
Acq: 05 May 2025 18:06

Tgt Ion: 84 Resp: 6011

Ion	Ratio	Lower	Upper
84	100		
49	164.1	133.9	200.9
51	49.1	41.0	61.6
86	70.3	51.9	77.9



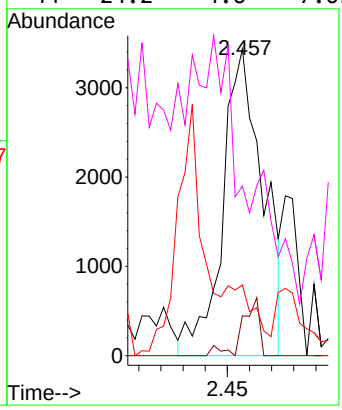


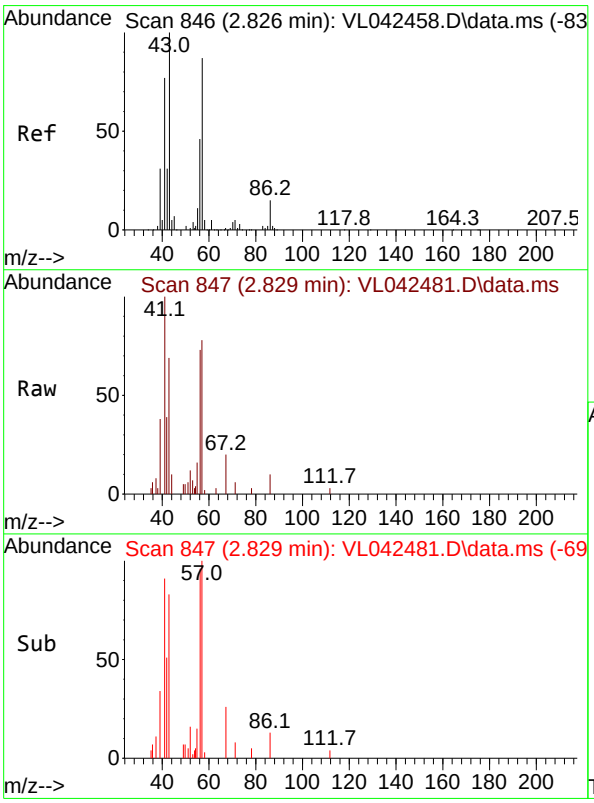
#23
Vinyl Acetate
Concen: 0.366 ppbv
RT: 2.457 min Scan# 7
Delta R.T. -0.003 min
Lab File: VL042481.D
Acq: 05 May 2025 18:06

Instrument :
MSVOA_L
ClientSampleId :
EBR-P07-SC-IA01-20250428

Tgt Ion: 43 Resp: 4353

Ion	Ratio	Lower	Upper
43	100		
86	13.6	5.5	8.3#
42	2.6	8.3	12.5#
44	24.2	4.6	7.0#

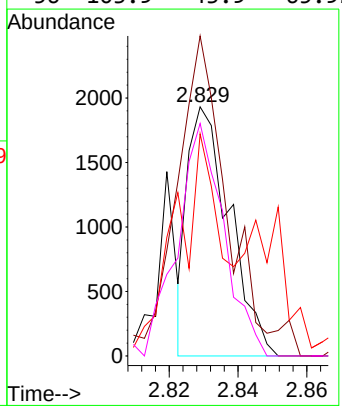


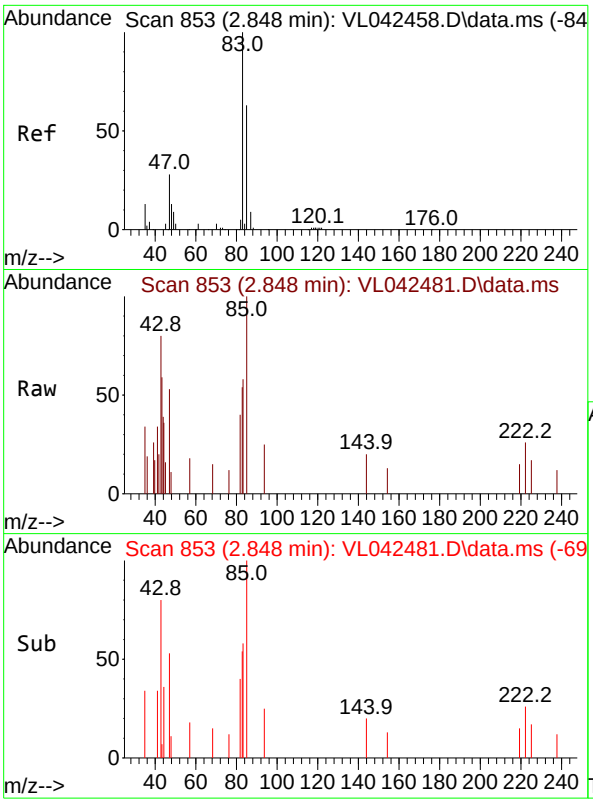


#26
Hexane
Concen: 0.188 ppbv
RT: 2.829 min Scan# 847
Delta R.T. 0.003 min
Lab File: VL042481.D
Acq: 05 May 2025 18:06

Tgt Ion: 57 Resp: 1635

Ion	Ratio	Lower	Upper
57	100		
41	164.0	77.8	116.8#
43	159.8	187.0	280.6#
56	103.9	43.9	65.9#



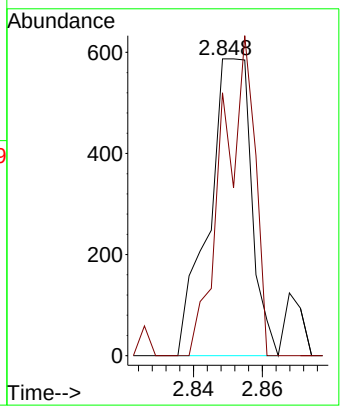


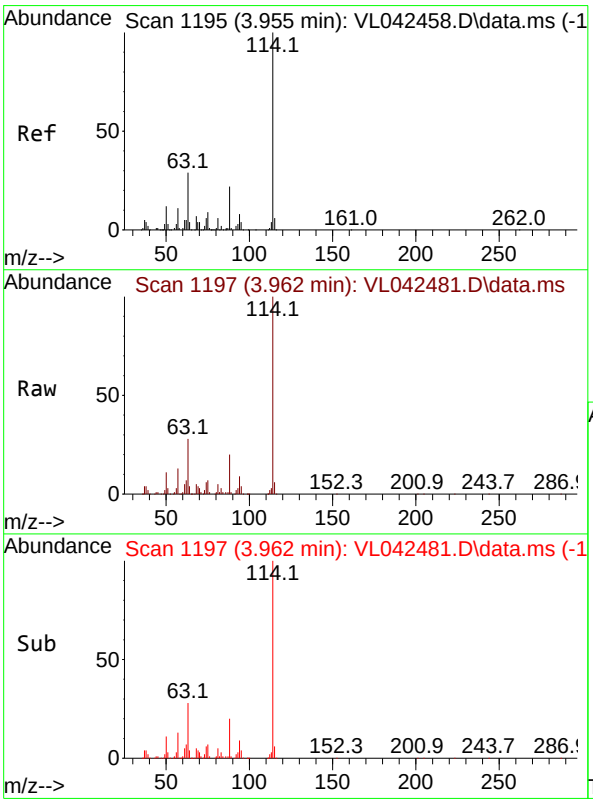
#29
Chloroform
Concen: 0.031 ppbv
RT: 2.848 min Scan# 8
Delta R.T. 0.000 min
Lab File: VL042481.D
Acq: 05 May 2025 18:06

Instrument :
MSVOA_L
ClientSampleId :
EBR-P07-SC-IA01-20250428

Tgt Ion: 83 Resp: 505

Ion	Ratio	Lower	Upper
83	100		
85	88.6	50.4	75.6#

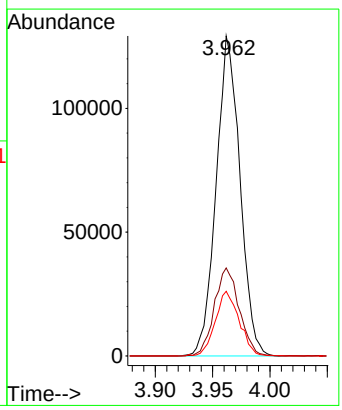


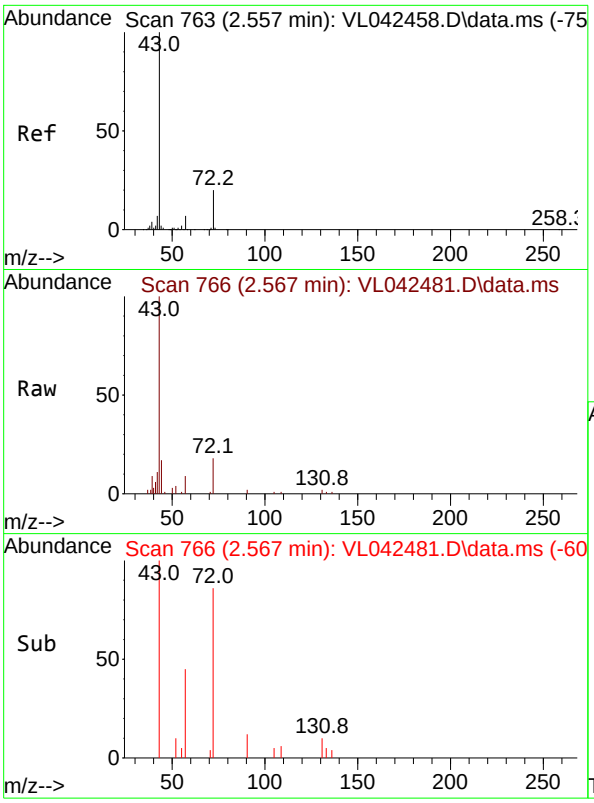


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.962 min Scan# 1197
Delta R.T. 0.006 min
Lab File: VL042481.D
Acq: 05 May 2025 18:06

Tgt Ion:114 Resp: 186800

Ion	Ratio	Lower	Upper
114	100		
63	28.9	23.1	34.7
88	20.3	16.1	24.1



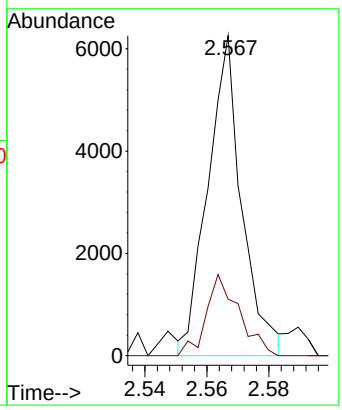


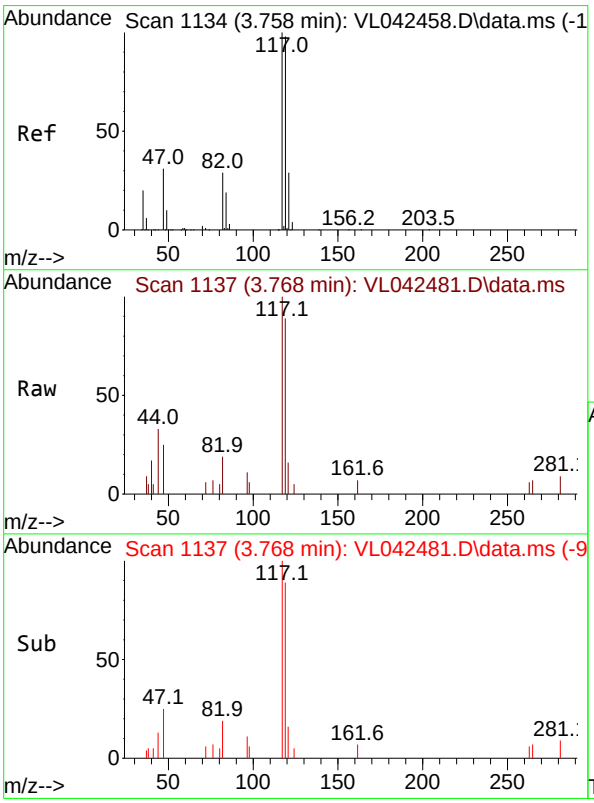
#34
2-Butanone
Concen: 0.351 ppbv
RT: 2.567 min Scan# 7
Delta R.T. 0.010 min
Lab File: VL042481.D
Acq: 05 May 2025 18:06

Instrument :
MSVOA_L
ClientSampleId :
EBR-P07-SC-IA01-20250428

Tgt Ion: 43 Resp: 4742

Ion	Ratio	Lower	Upper
43	100		
72	24.7	16.7	25.1

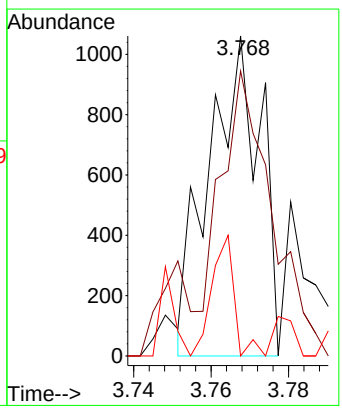


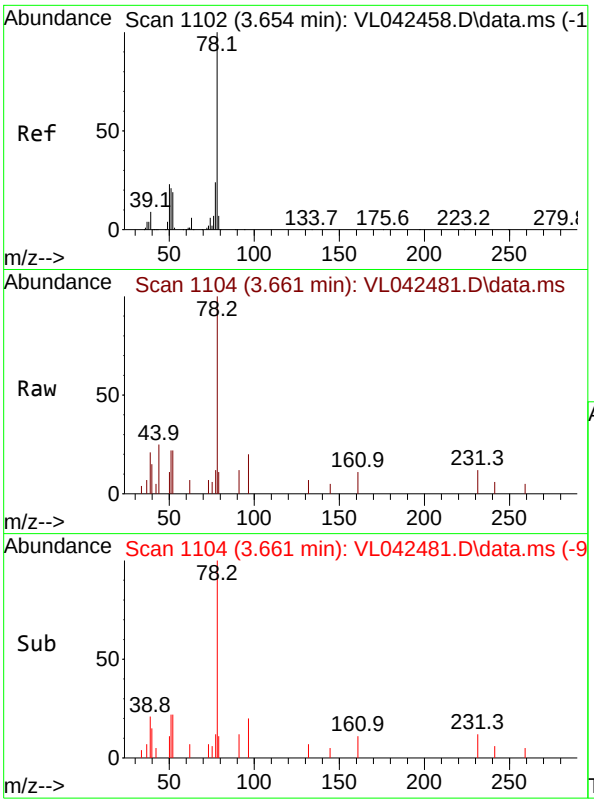


#35
Carbon Tetrachloride
Concen: 0.058 ppbv
RT: 3.768 min Scan# 1137
Delta R.T. 0.010 min
Lab File: VL042481.D
Acq: 05 May 2025 18:06

Tgt Ion:117 Resp: 982

Ion	Ratio	Lower	Upper
117	100		
119	60.4	78.1	117.1#
121	0.0	23.0	34.6#



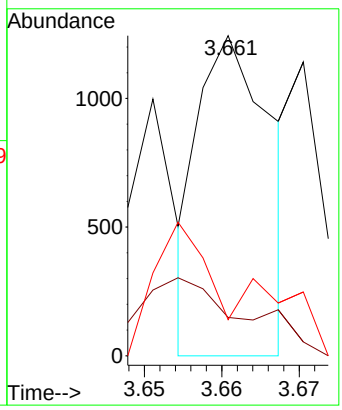


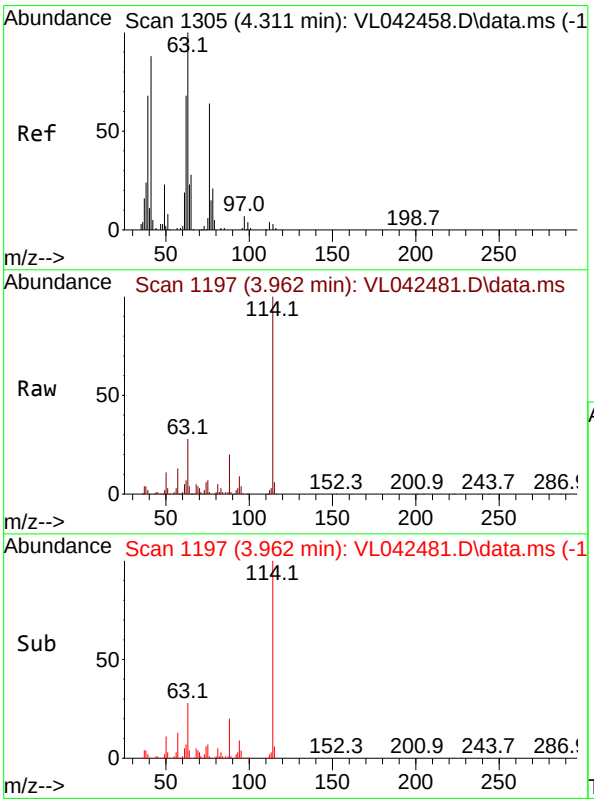
#36
Benzene
Concen: 0.046 ppbv
RT: 3.661 min Scan# 11
Delta R.T. 0.006 min
Lab File: VL042481.D
Acq: 05 May 2025 18:06

Instrument :
MSVOA_L
ClientSampleId :
EBR-P07-SC-IA01-20250428

Tgt Ion: 78 Resp: 813

Ion	Ratio	Lower	Upper
78	100		
77	0.0	18.9	28.3#
50	0.0	18.4	27.6#

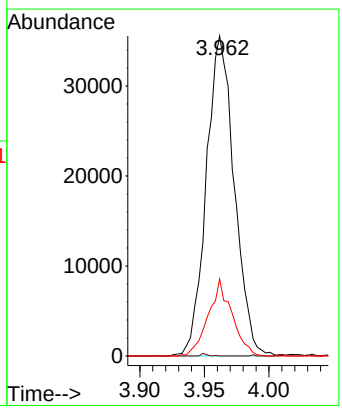


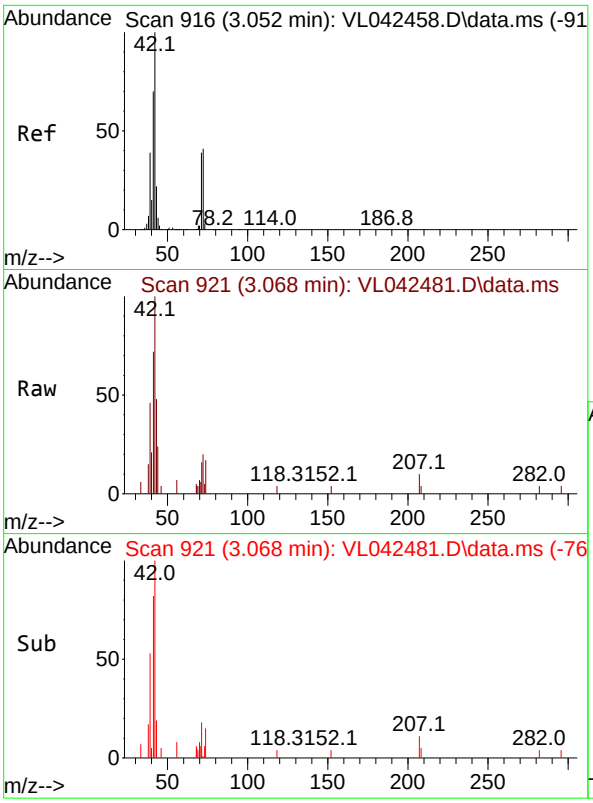


#39
1,2-Dichloropropane
Concen: 8.119 ppbv
RT: 3.962 min Scan# 1197
Delta R.T. -0.350 min
Lab File: VL042481.D
Acq: 05 May 2025 18:06

Tgt Ion: 63 Resp: 53581

Ion	Ratio	Lower	Upper
63	100		
41	0.0	69.8	104.6#
62	24.0	54.3	81.5#



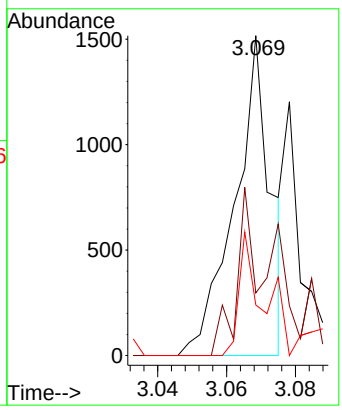


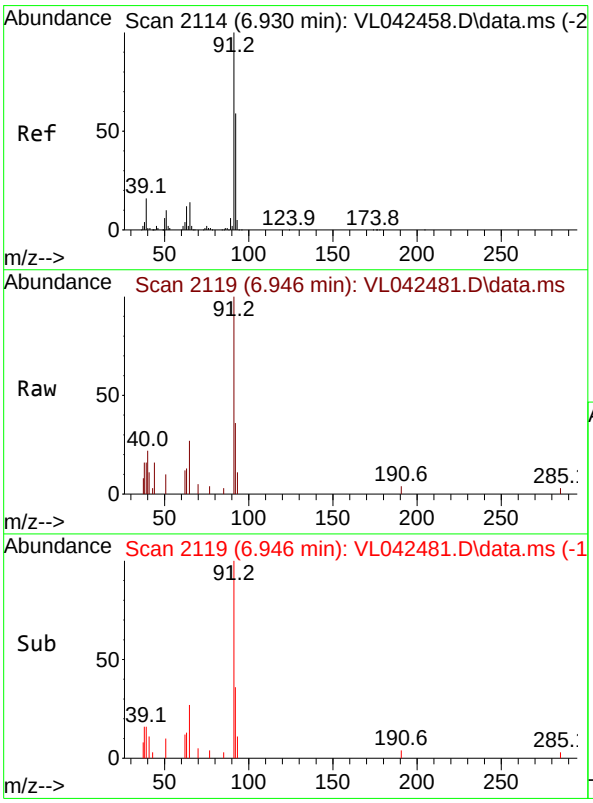
#41
Tetrahydrofuran
Concen: 0.169 ppbv
RT: 3.068 min Scan# 9
Delta R.T. 0.016 min
Lab File: VL042481.D
Acq: 05 May 2025 18:06

Instrument :
MSVOA_L
ClientSampleId :
EBR-P07-SC-IA01-20250428

Tgt Ion: 42 Resp: 1084

Ion	Ratio	Lower	Upper
42	100		
72	56.3	33.5	50.3#
71	42.7	32.6	49.0

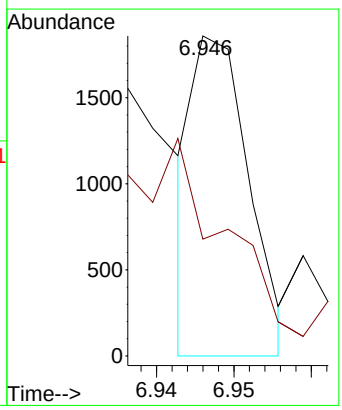


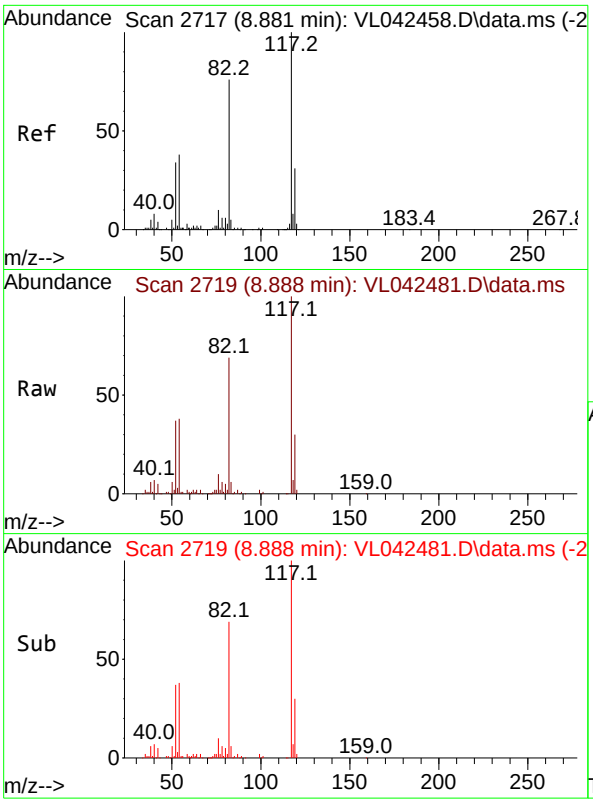


#53
Toluene
Concen: 0.050 ppbv
RT: 6.946 min Scan# 2119
Delta R.T. 0.016 min
Lab File: VL042481.D
Acq: 05 May 2025 18:06

Tgt Ion: 91 Resp: 934

Ion	Ratio	Lower	Upper
91	100		
92	178.5	47.9	71.9#



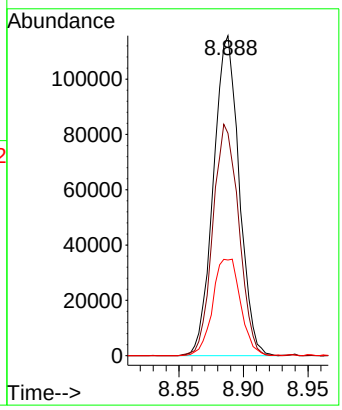


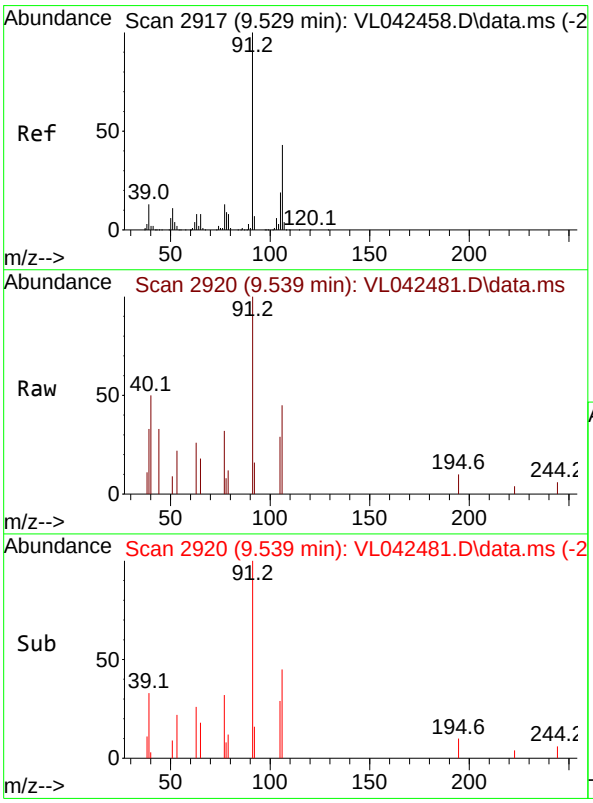
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.888 min Scan# 2
Delta R.T. 0.007 min
Lab File: VL042481.D
Acq: 05 May 2025 18:06

Instrument :
MSVOA_L
ClientSampleId :
EBR-P07-SC-IA01-20250428

Tgt Ion:117 Resp: 160233

Ion	Ratio	Lower	Upper
117	100		
82	72.9	63.5	95.3
119	32.7	25.8	38.8

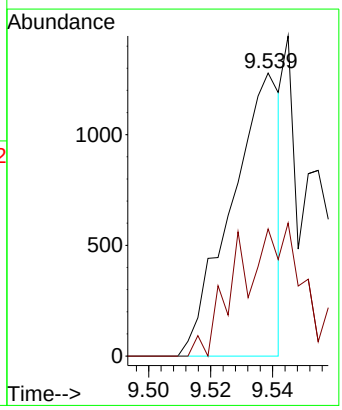


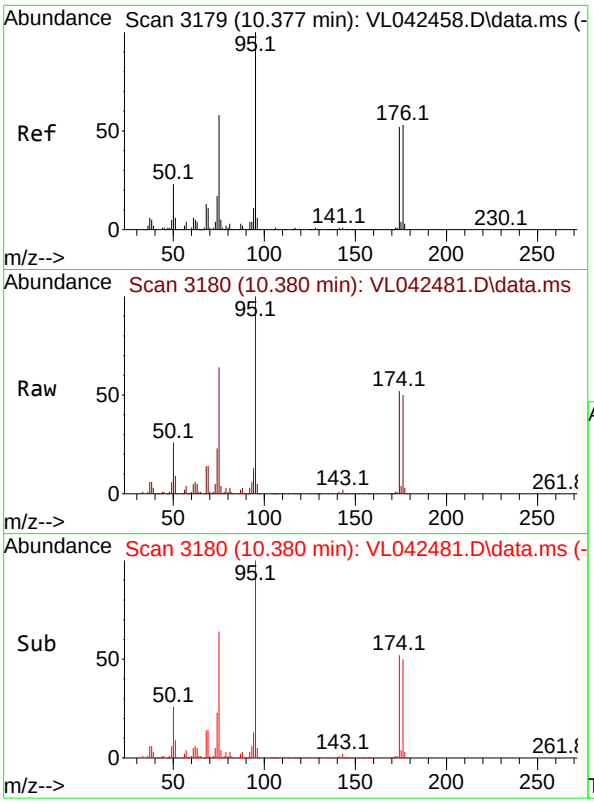


#59
m/p-Xylene
Concen: 0.062 ppbv
RT: 9.539 min Scan# 2920
Delta R.T. 0.010 min
Lab File: VL042481.D
Acq: 05 May 2025 18:06

Tgt Ion: 91 Resp: 1393

Ion	Ratio	Lower	Upper
91	100		
106	0.0	34.2	51.2#



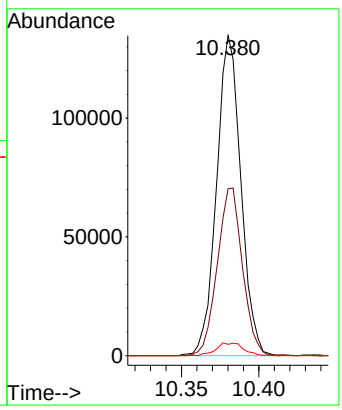


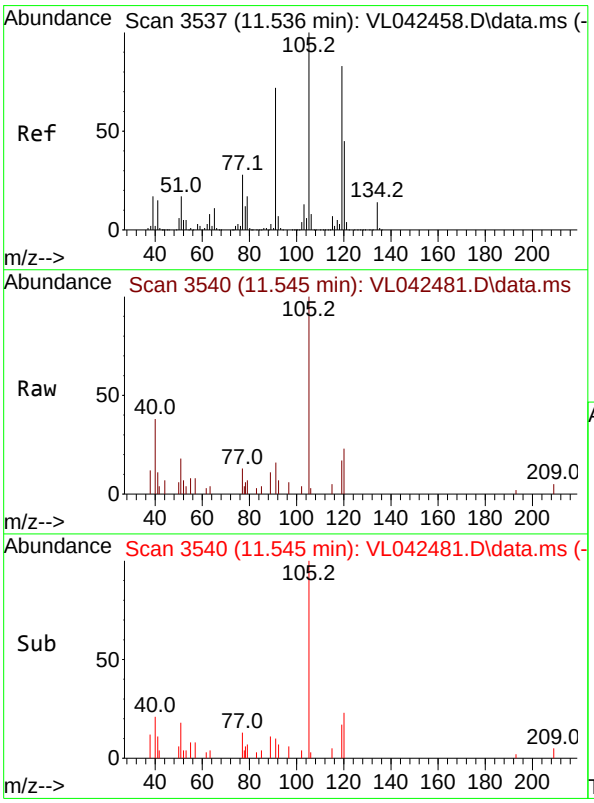
#68
1-Bromo-4-Fluorobenzene
Concen: 9.903 ppbv
RT: 10.380 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042481.D
Acq: 05 May 2025 18:06

Instrument :
MSVOA_L
ClientSampleId :
EBR-P07-SC-IA01-20250428

Tgt Ion: 95 Resp: 147117

Ion	Ratio	Lower	Upper
95	100		
174	54.4	42.7	64.1
175	4.5	3.6	5.4

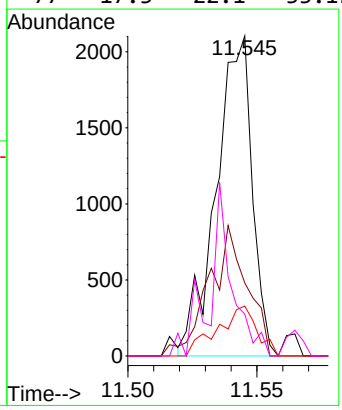




#74
1,2,4-Trimethylbenzene
Concen: 0.073 ppbv
RT: 11.545 min Scan# 3540
Delta R.T. 0.010 min
Lab File: VL042481.D
Acq: 05 May 2025 18:06

Tgt Ion:105 Resp: 2047

Ion	Ratio	Lower	Upper
105	100		
120	22.9	36.1	54.1#
91	15.6	57.6	86.4#
77	17.3	22.1	33.1#



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050525\
Data File : VL042483.D
Acq On : 05 May 2025 19:15
Operator : SY/MD
Sample : Q1927-06
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
EBR-P04-SC-IA01-20250428

Quant Time: May 06 01:45:26 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri May 02 03:16:31 2025
Response via : Initial Calibration

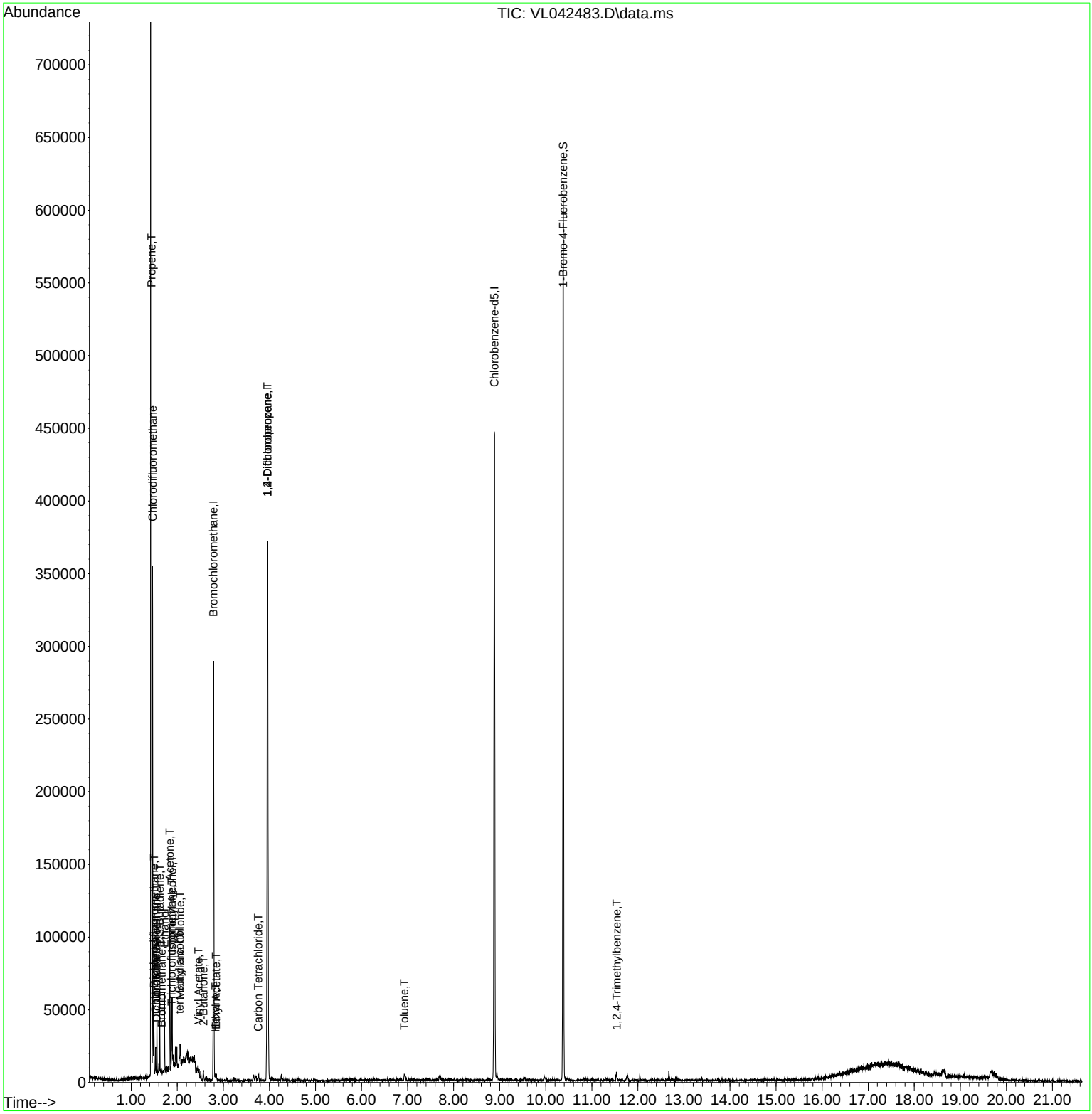
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.787	49	69784	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.959	114	186712	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.882	117	154199	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.377	95	143708	10.052	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 100.500%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.496	85	6496	0.563	ppbv		95
3) Chlorodifluoromethane	1.463	51	79921	6.546	ppbv	#	59
4) Chloromethane	1.531	50	2807	0.582	ppbv		97
6) Bromomethane	1.664	94	113	0.049	ppbv	#	6
7) Chloroethane	1.525	64	275	0.153	ppbv	#	79
8) Dichlorotetrafluoroethane	1.551	85	318	0.033	ppbv	#	70
9) Propene	1.441	41	316	0.079	ppbv		91
11) Trichlorofluoromethane	1.878	101	2631	0.247	ppbv		100
13) Ethanol	1.722	45	16777	20.702	ppbv	#	37
15) Acetone	1.835	43	43287	3.398	ppbv		99
16) 1,3-Butadiene	1.619	39	2747	0.489	ppbv	#	15
17) tert-Butyl alcohol	2.049	59	861	0.077	ppbv	#	57
19) Isopropyl Alcohol	1.887	45	18608	2.639	ppbv	#	98
20) Methylene Chloride	2.062	84	1623	0.424	ppbv	#	91
23) Vinyl Acetate	2.460	43	922	0.076	ppbv	#	12
25) Ethyl Acetate	2.842	43	1696	0.083	ppbv	#	84
26) Hexane	2.829	57	478	0.054	ppbv	#	1
34) 2-Butanone	2.567	43	3685	0.273	ppbv		98
35) Carbon Tetrachloride	3.755	117	529	0.031	ppbv		86
39) 1,2-Dichloropropane	3.959	63	56313	8.537	ppbv	#	19
53) Toluene	6.930	91	849	0.046	ppbv	#	1
74) 1,2,4-Trimethylbenzene	11.539	105	1191	0.044	ppbv	#	50

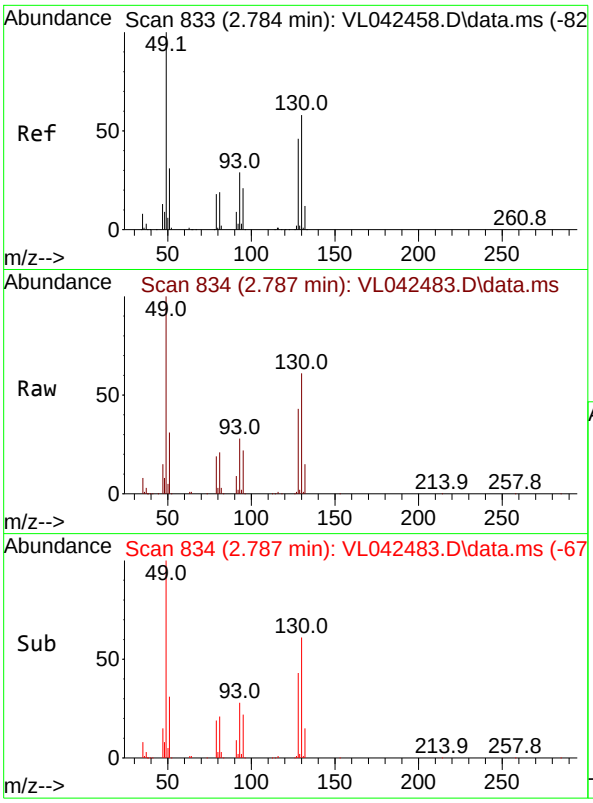
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050525\
Data File : VL042483.D
Acq On : 05 May 2025 19:15
Operator : SY/MD
Sample : Q1927-06
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
EBR-P04-SC-IA01-20250428

Quant Time: May 06 01:45:26 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri May 02 03:16:31 2025
Response via : Initial Calibration



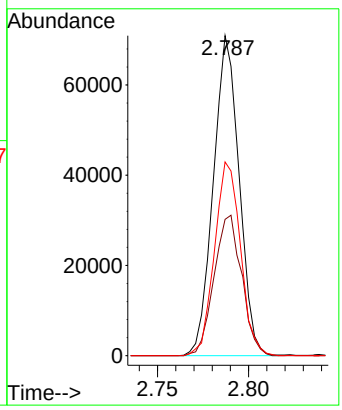


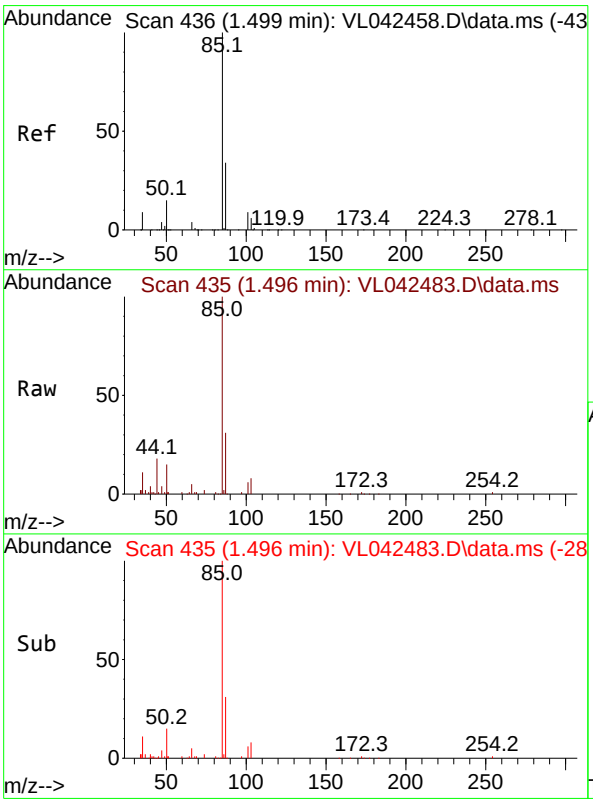
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042483.D
Acq: 05 May 2025 19:15

Instrument :
MSVOA_L
ClientSampleId :
EBR-P04-SC-IA01-20250428

Tgt Ion: 49 Resp: 69784

Ion	Ratio	Lower	Upper
49	100		
128	47.0	23.3	69.9
130	61.0	29.5	88.6

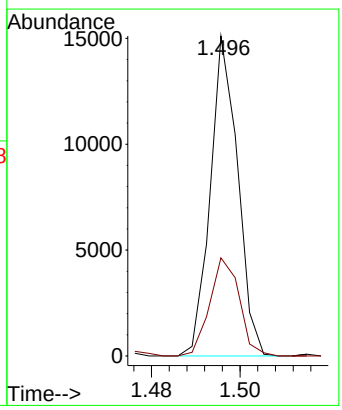


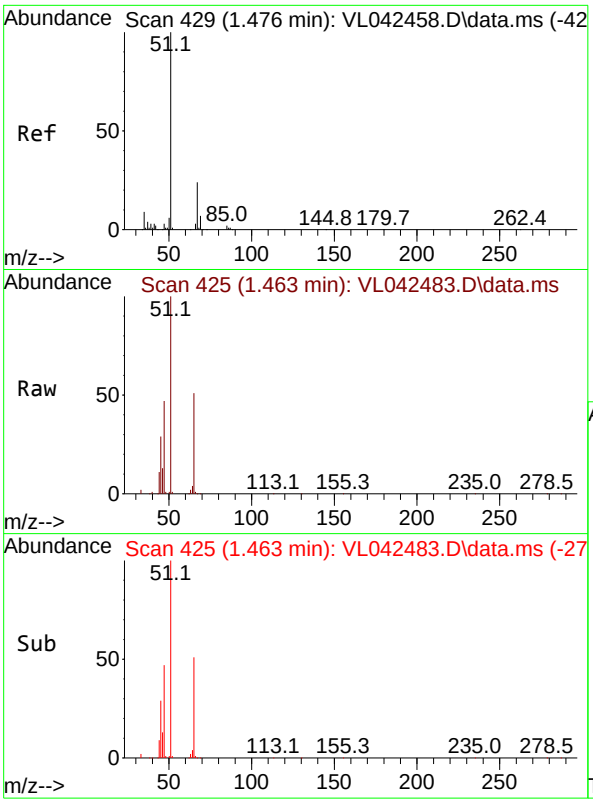


#2
Dichlorodifluoromethane
Concen: 0.563 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.003 min
Lab File: VL042483.D
Acq: 05 May 2025 19:15

Tgt Ion: 85 Resp: 6496

Ion	Ratio	Lower	Upper
85	100		
87	30.6	26.9	40.3



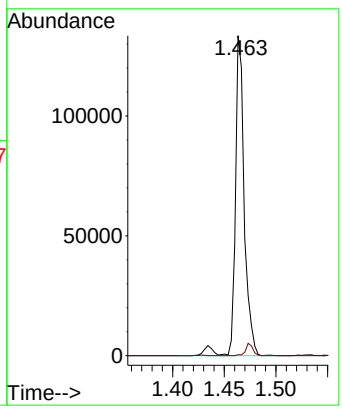


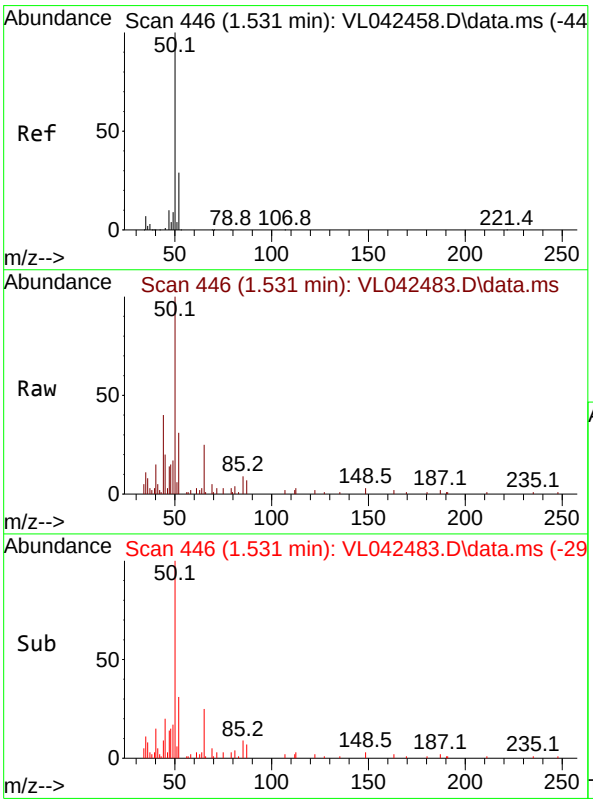
#3
Chlorodifluoromethane
Concen: 6.546 ppbv
RT: 1.463 min Scan# 4
Delta R.T. -0.013 min
Lab File: VL042483.D
Acq: 05 May 2025 19:15

Instrument :
MSVOA_L
ClientSampleId :
EBR-P04-SC-IA01-20250428

Tgt Ion: 51 Resp: 79921

Ion	Ratio	Lower	Upper
51	100		
67	3.1	18.4	27.6#

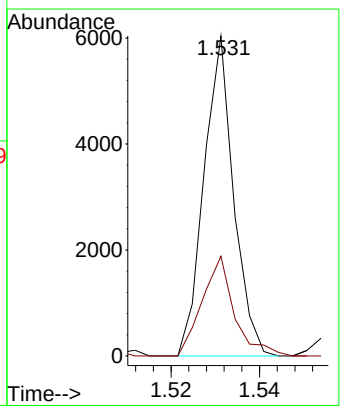


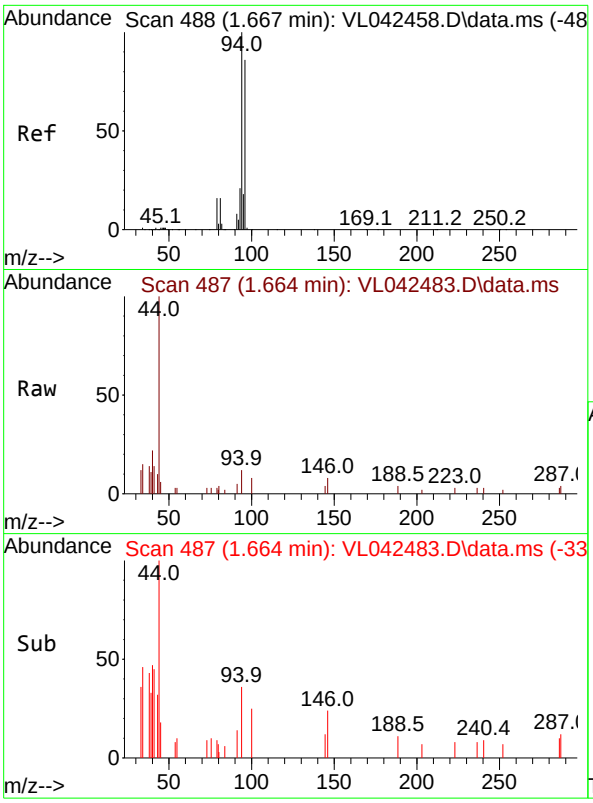


#4
Chloromethane
Concen: 0.582 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL042483.D
Acq: 05 May 2025 19:15

Tgt Ion: 50 Resp: 2807

Ion	Ratio	Lower	Upper
50	100		
52	31.2	23.5	35.3



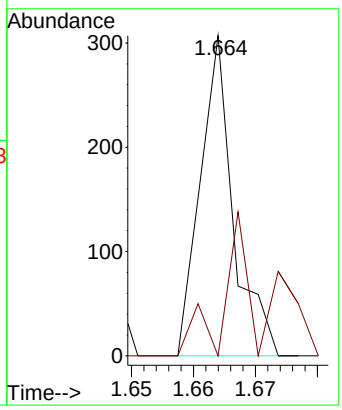


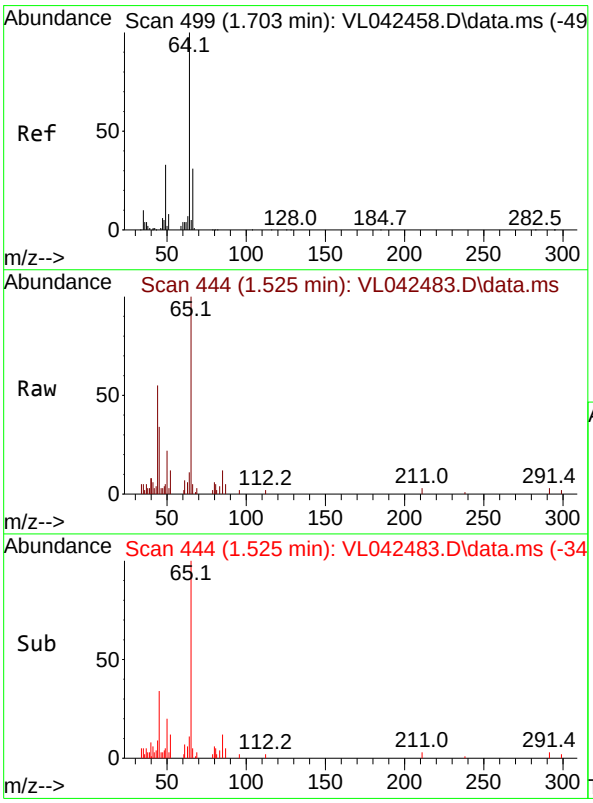
#6
Bromomethane
Concen: 0.049 ppbv
RT: 1.664 min Scan# 4
Delta R.T. -0.003 min
Lab File: VL042483.D
Acq: 05 May 2025 19:15

Instrument :
MSVOA_L
ClientSampleId :
EBR-P04-SC-IA01-20250428

Tgt Ion: 94 Resp: 113

Ion	Ratio	Lower	Upper
94	100		
96	0.0	68.8	103.2#

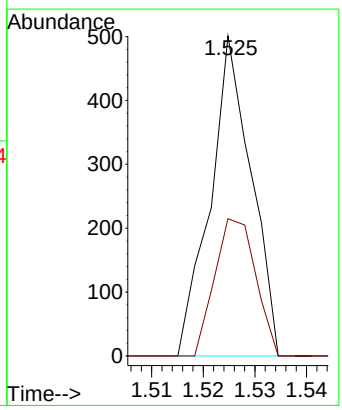


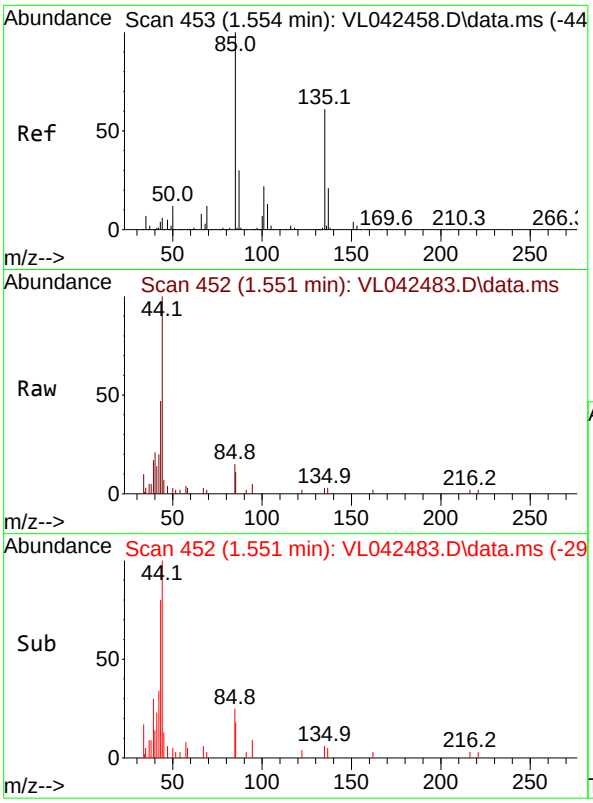


#7
Chloroethane
Concen: 0.153 ppbv
RT: 1.525 min Scan# 444
Delta R.T. -0.178 min
Lab File: VL042483.D
Acq: 05 May 2025 19:15

Tgt Ion: 64 Resp: 275

Ion	Ratio	Lower	Upper
64	100		
66	42.9	25.0	37.4#



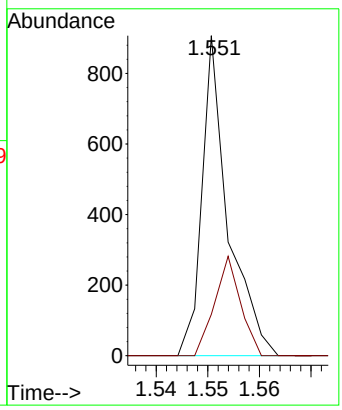


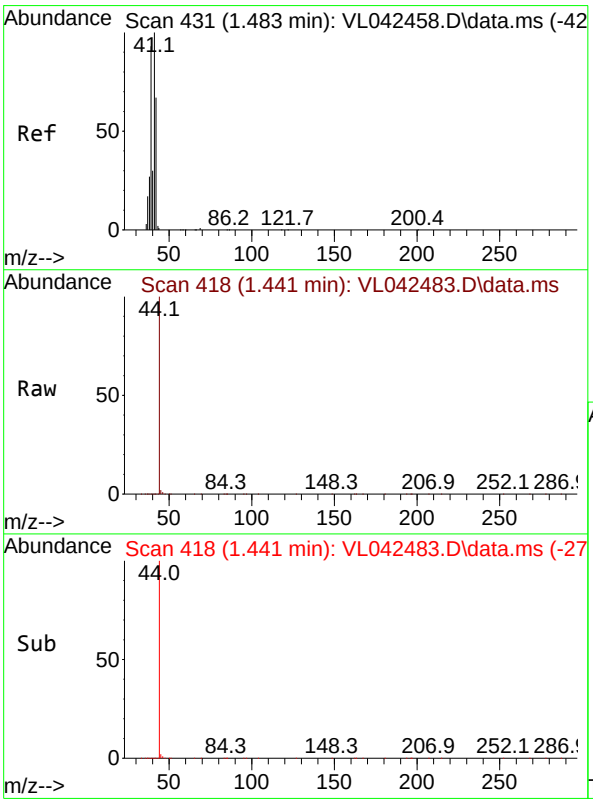
#8
Dichlorotetrafluoroethane
Concen: 0.033 ppbv
RT: 1.551 min Scan# 4
Delta R.T. -0.003 min
Lab File: VL042483.D
Acq: 05 May 2025 19:15

Instrument :
MSVOA_L
ClientSampleId :
EBR-P04-SC-IA01-20250428

Tgt Ion: 85 Resp: 318

Ion	Ratio	Lower	Upper
85	100		
135	39.0	49.8	74.8#

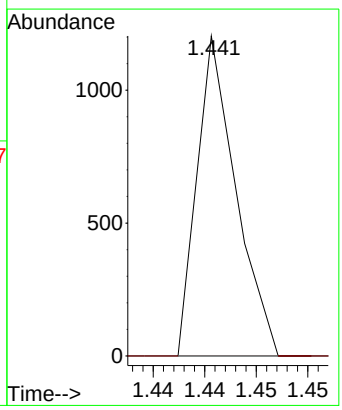


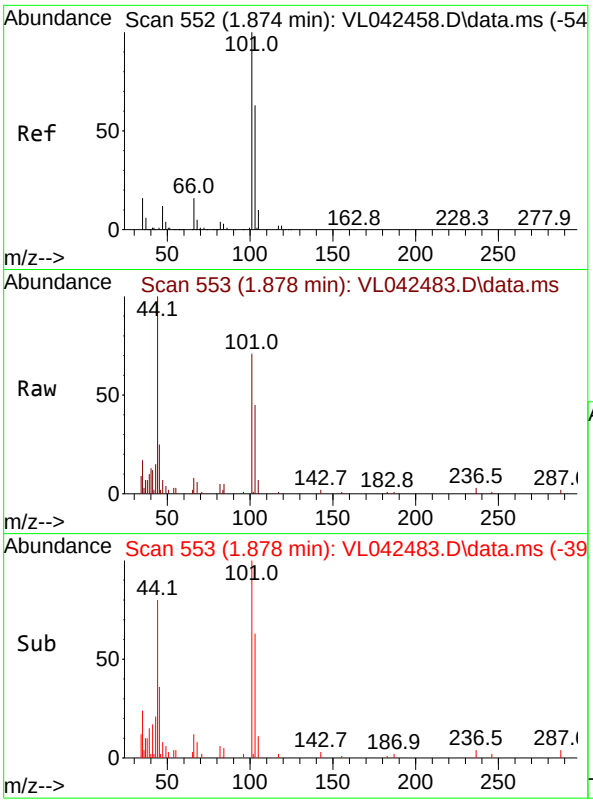


#9
Propene
Concen: 0.079 ppbv
RT: 1.441 min Scan# 418
Delta R.T. -0.042 min
Lab File: VL042483.D
Acq: 05 May 2025 19:15

Tgt Ion: 41 Resp: 316

Ion	Ratio	Lower	Upper
41	100		
42	60.8	54.3	81.5



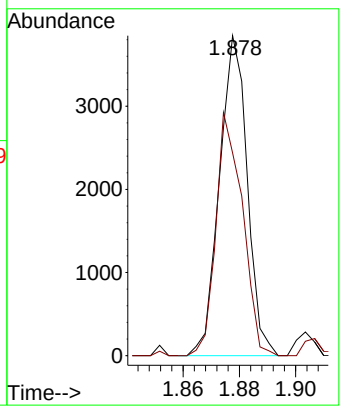


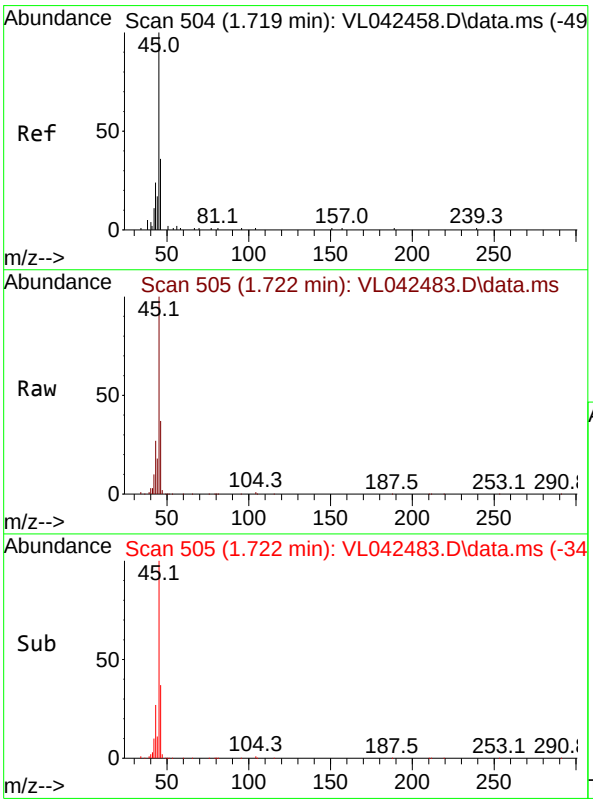
#11
Trichlorofluoromethane
Concen: 0.247 ppbv
RT: 1.878 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042483.D
Acq: 05 May 2025 19:15

Instrument :
MSVOA_L
ClientSampleId :
EBR-P04-SC-IA01-20250428

Tgt Ion:101 Resp: 2631

Ion	Ratio	Lower	Upper
101	100		
103	63.4	50.6	76.0

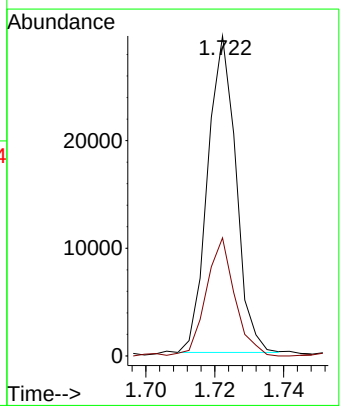


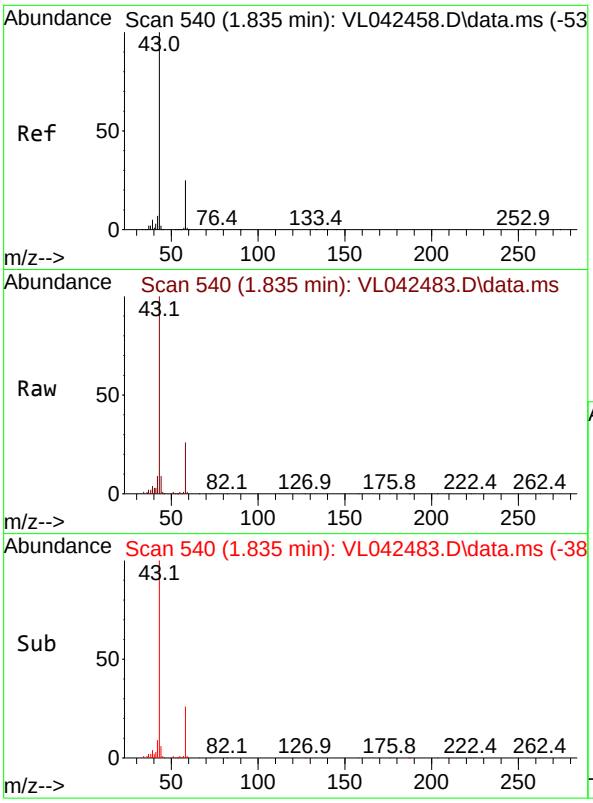


#13
Ethanol
Concen: 20.702 ppbv
RT: 1.722 min Scan# 505
Delta R.T. 0.003 min
Lab File: VL042483.D
Acq: 05 May 2025 19:15

Tgt Ion: 45 Resp: 16777

Ion	Ratio	Lower	Upper
45	100		
46	0.0	15.3	61.1#



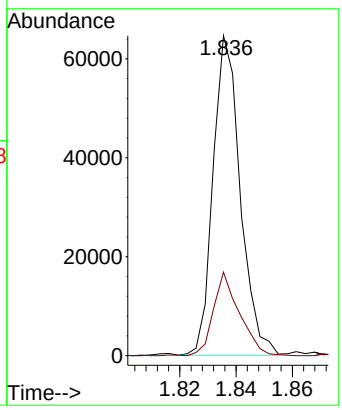


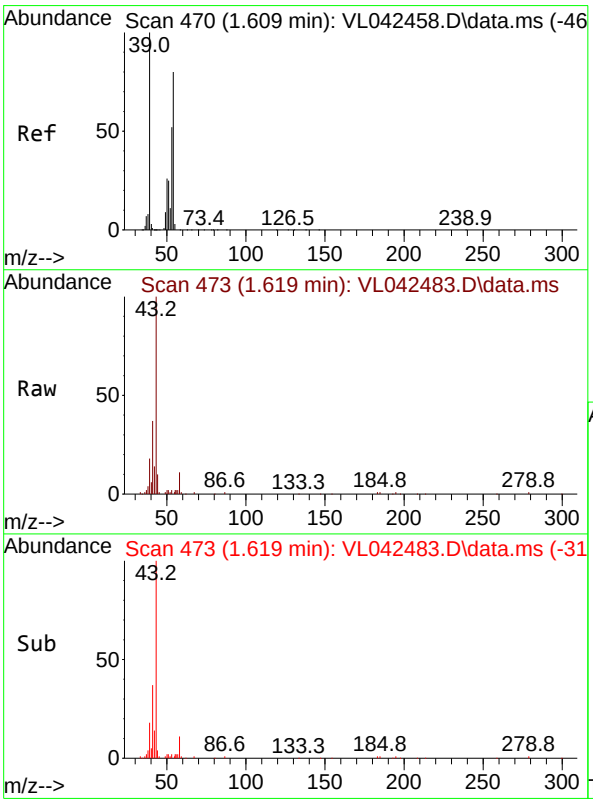
#15
Acetone
Concen: 3.398 ppbv
RT: 1.835 min Scan# 54
Delta R.T. 0.000 min
Lab File: VL042483.D
Acq: 05 May 2025 19:15

Instrument :
MSVOA_L
ClientSampleId :
EBR-P04-SC-IA01-20250428

Tgt Ion: 43 Resp: 43287

Ion	Ratio	Lower	Upper
43	100		
58	25.1	19.8	29.8

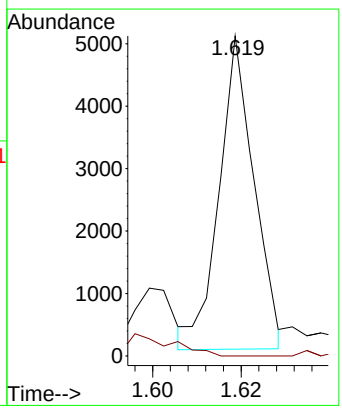


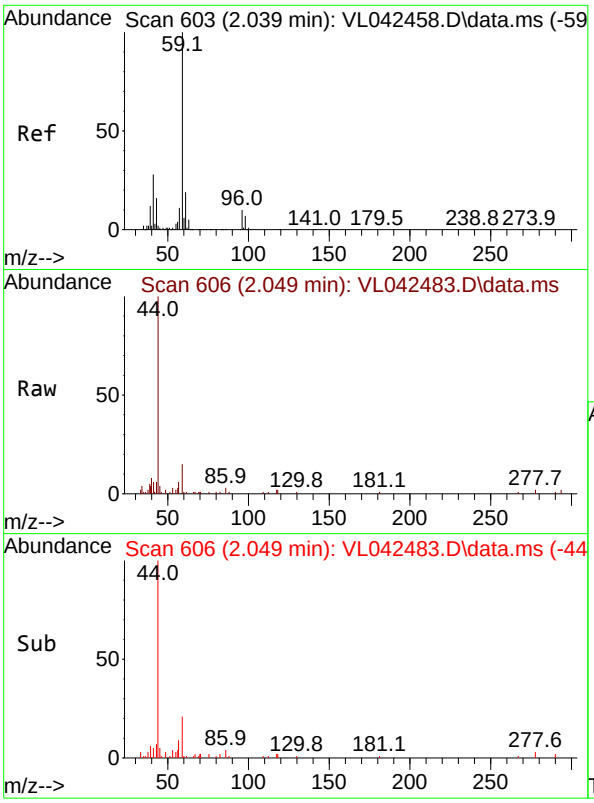


#16
1,3-Butadiene
Concen: 0.489 ppbv
RT: 1.619 min Scan# 473
Delta R.T. 0.010 min
Lab File: VL042483.D
Acq: 05 May 2025 19:15

Tgt Ion: 39 Resp: 2747

Ion	Ratio	Lower	Upper
39	100		
54	0.0	55.2	82.8#



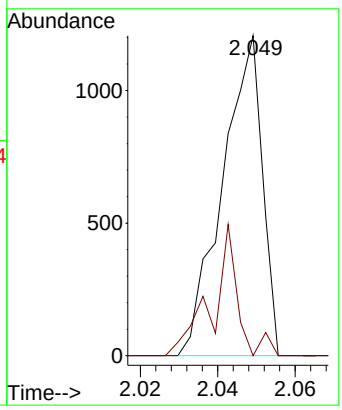


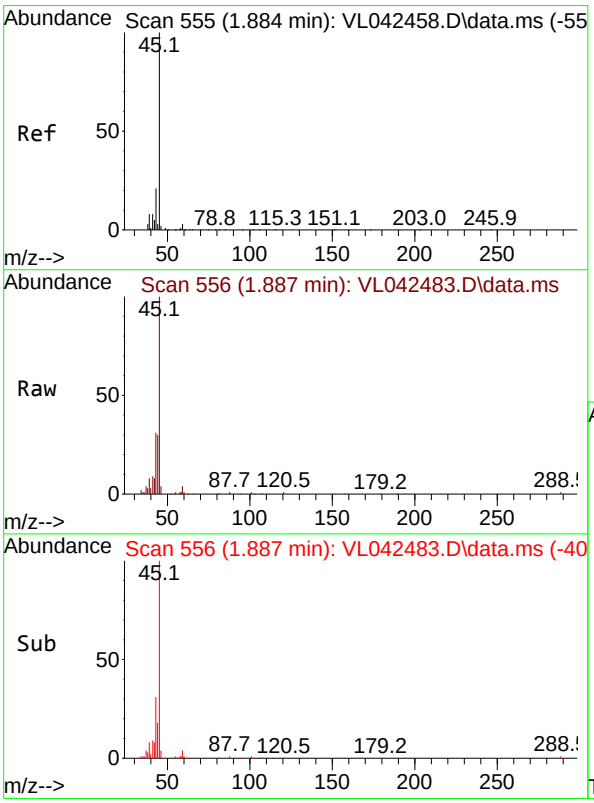
#17
tert-Butyl alcohol
Concen: 0.077 ppbv
RT: 2.049 min Scan# 6
Delta R.T. 0.010 min
Lab File: VL042483.D
Acq: 05 May 2025 19:15

Instrument :
MSVOA_L
ClientSampleId :
EBR-P04-SC-IA01-20250428

Tgt Ion: 59 Resp: 861

Ion	Ratio	Lower	Upper
59	100		
57	26.6	8.3	12.5#

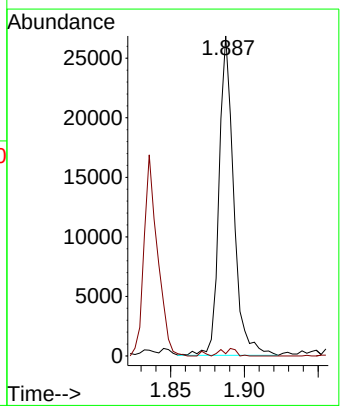


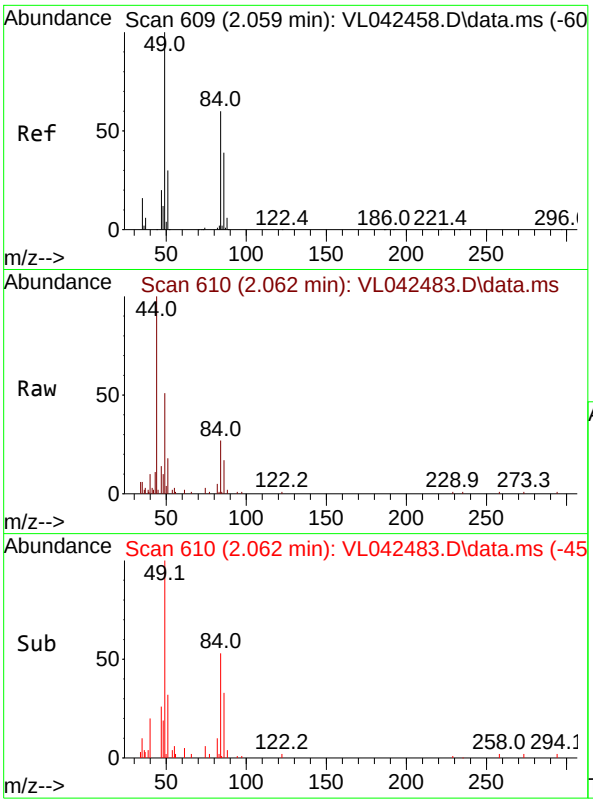


#19
Isopropyl Alcohol
Concen: 2.639 ppbv
RT: 1.887 min Scan# 556
Delta R.T. 0.003 min
Lab File: VL042483.D
Acq: 05 May 2025 19:15

Tgt Ion: 45 Resp: 18608

Ion	Ratio	Lower	Upper
45	100		
58	2.8	1.6	2.4#



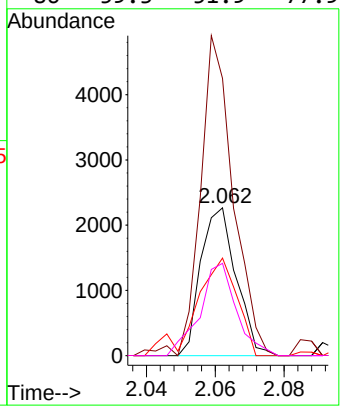


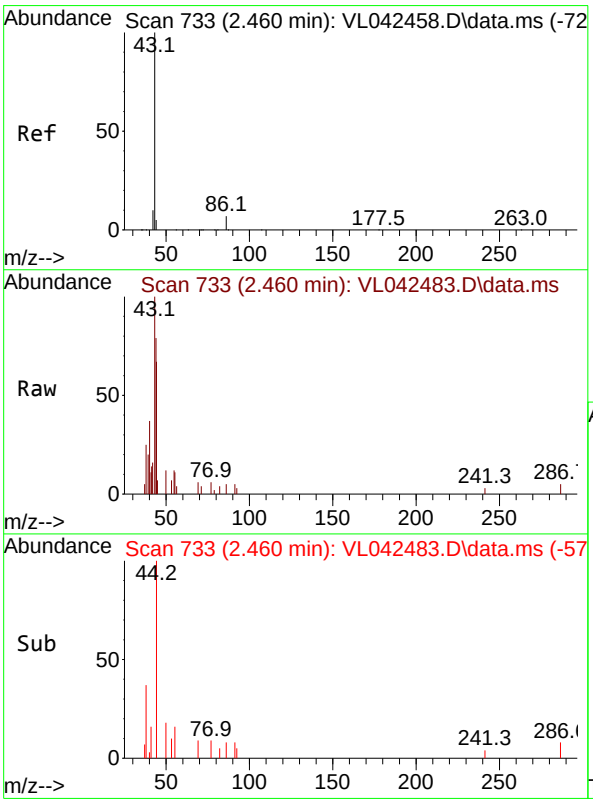
#20
Methylene Chloride
Concen: 0.424 ppbv
RT: 2.062 min Scan# 61
Delta R.T. 0.003 min
Lab File: VL042483.D
Acq: 05 May 2025 19:15

Instrument :
MSVOA_L
ClientSampleId :
EBR-P04-SC-IA01-20250428

Tgt Ion: 84 Resp: 1623

Ion	Ratio	Lower	Upper
84	100		
49	177.9	133.9	200.9
51	62.7	41.0	61.6#
86	59.3	51.9	77.9

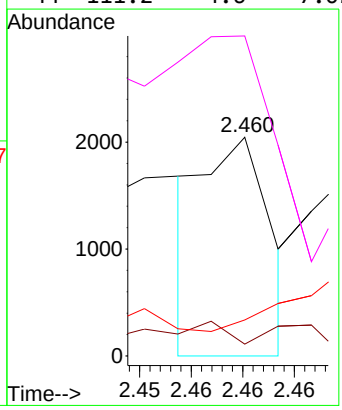


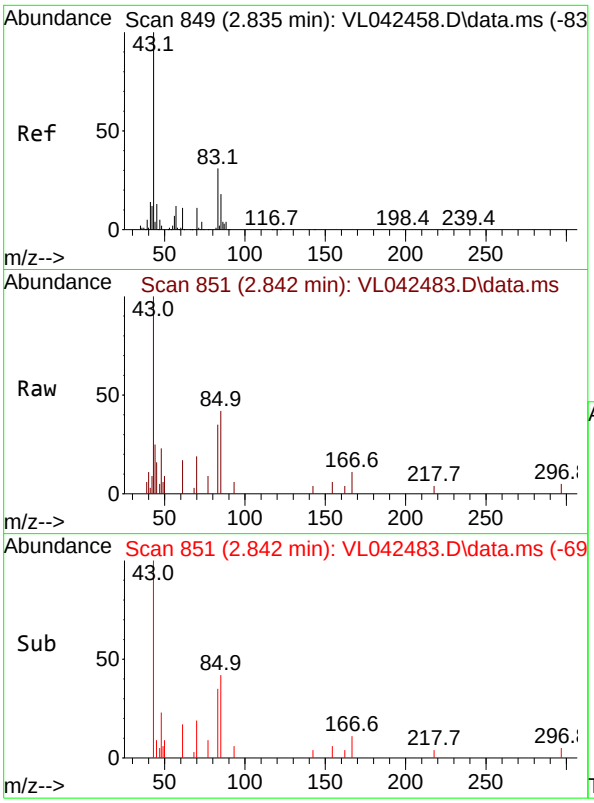


#23
Vinyl Acetate
Concen: 0.076 ppbv
RT: 2.460 min Scan# 733
Delta R.T. 0.000 min
Lab File: VL042483.D
Acq: 05 May 2025 19:15

Tgt Ion: 43 Resp: 922

Ion	Ratio	Lower	Upper
43	100		
86	0.0	5.5	8.3#
42	7.8	8.3	12.5#
44	111.2	4.6	7.0#



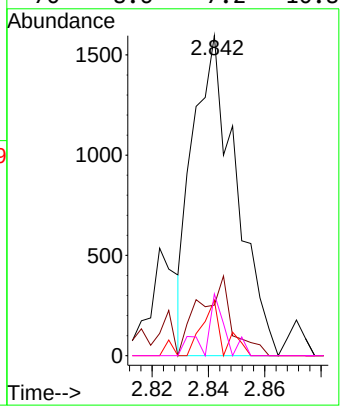


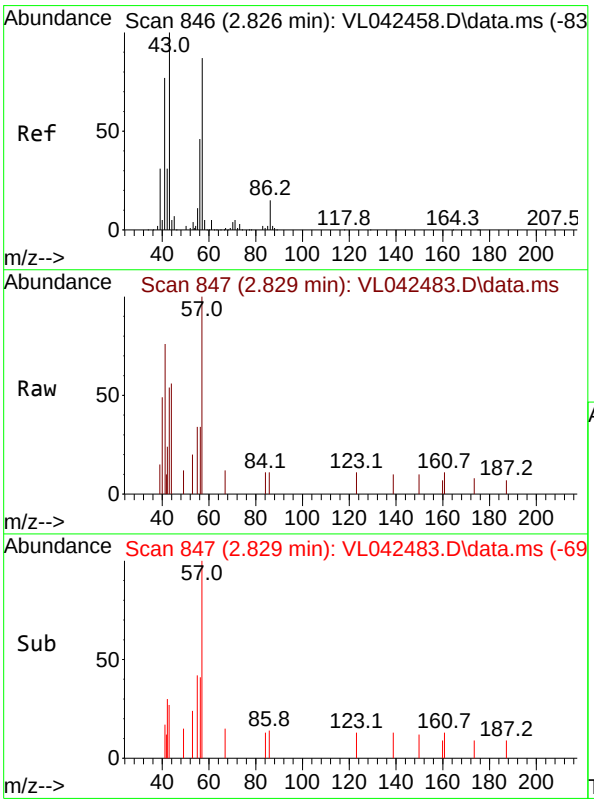
#25
Ethyl Acetate
Concen: 0.083 ppbv
RT: 2.842 min Scan# 8
Delta R.T. 0.007 min
Lab File: VL042483.D
Acq: 05 May 2025 19:15

Instrument :
MSVOA_L
ClientSampleId :
EBR-P04-SC-IA01-20250428

Tgt Ion: 43 Resp: 1696

Ion	Ratio	Lower	Upper
43	100		
45	25.5	7.8	11.6#
61	9.4	7.2	10.8
70	8.6	7.2	10.8

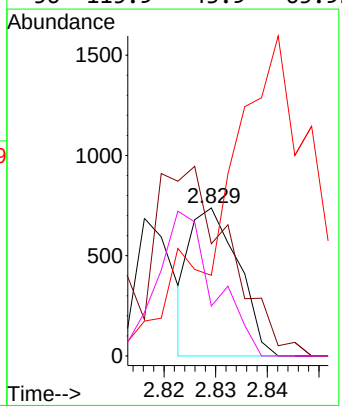


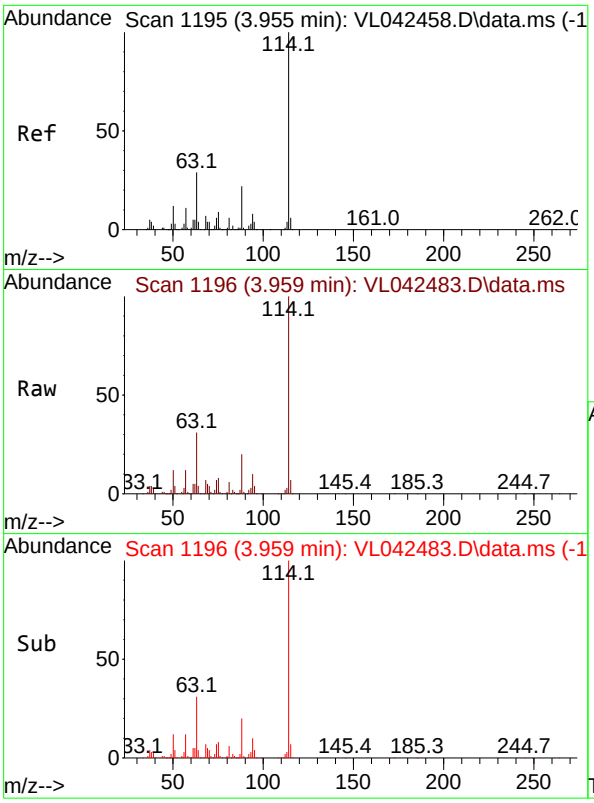


#26
Hexane
Concen: 0.054 ppbv
RT: 2.829 min Scan# 847
Delta R.T. 0.003 min
Lab File: VL042483.D
Acq: 05 May 2025 19:15

Tgt Ion: 57 Resp: 478

Ion	Ratio	Lower	Upper
57	100		
41	225.7	77.8	116.8#
43	445.0	187.0	280.6#
56	115.9	43.9	65.9#



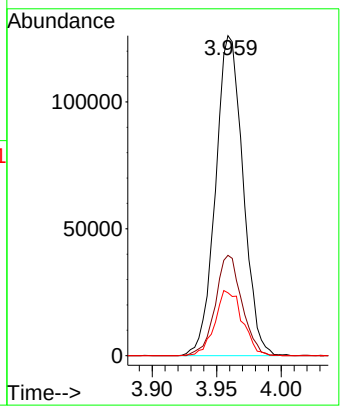


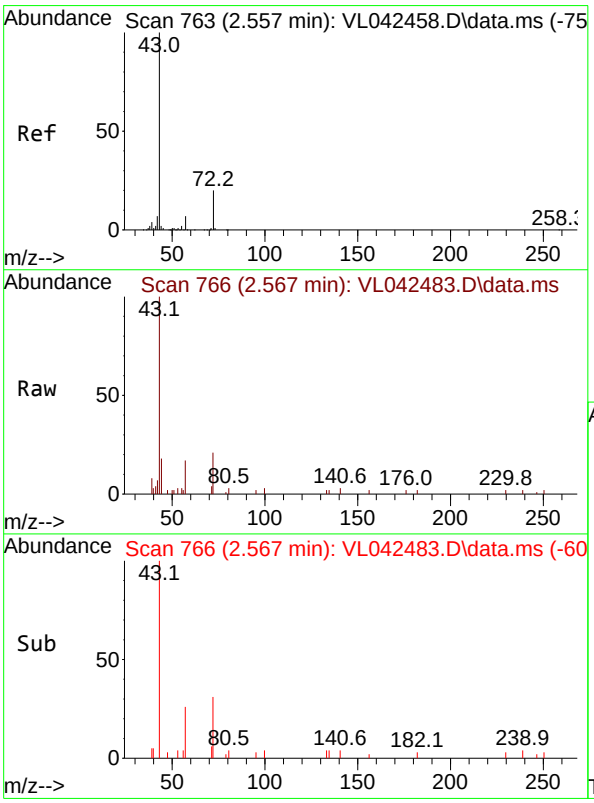
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.959 min Scan# 1
Delta R.T. 0.003 min
Lab File: VL042483.D
Acq: 05 May 2025 19:15

Instrument :
MSVOA_L
ClientSampleId :
EBR-P04-SC-IA01-20250428

Tgt Ion:114 Resp: 186712

Ion	Ratio	Lower	Upper
114	100		
63	30.2	23.1	34.7
88	20.4	16.1	24.1

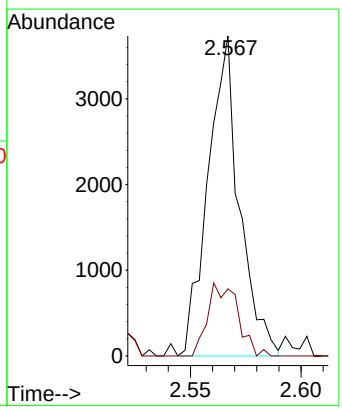


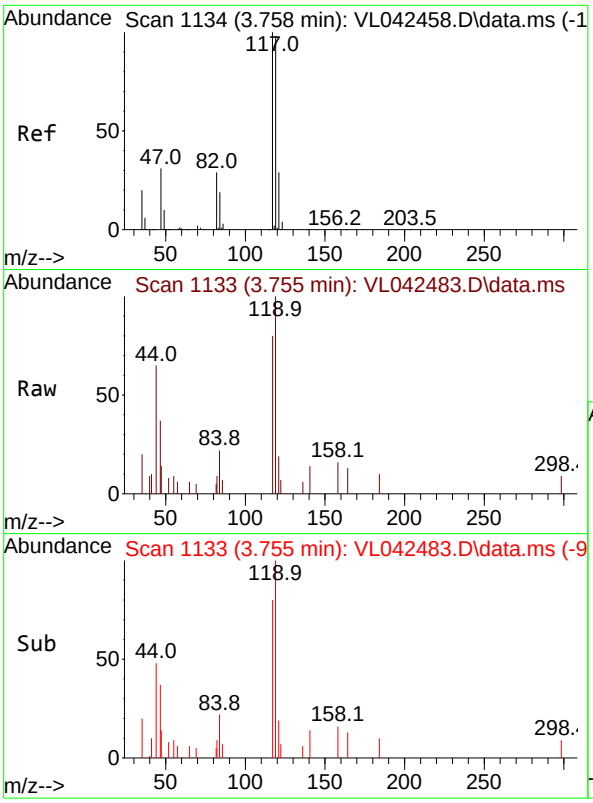


#34
2-Butanone
Concen: 0.273 ppbv
RT: 2.567 min Scan# 766
Delta R.T. 0.010 min
Lab File: VL042483.D
Acq: 05 May 2025 19:15

Tgt Ion: 43 Resp: 3685

Ion	Ratio	Lower	Upper
43	100		
72	21.8	16.7	25.1



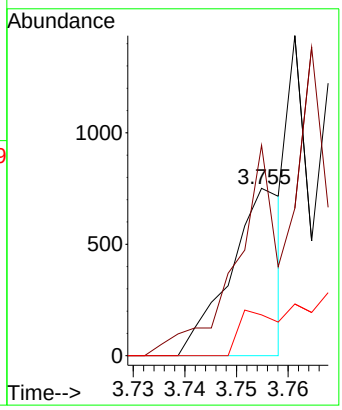


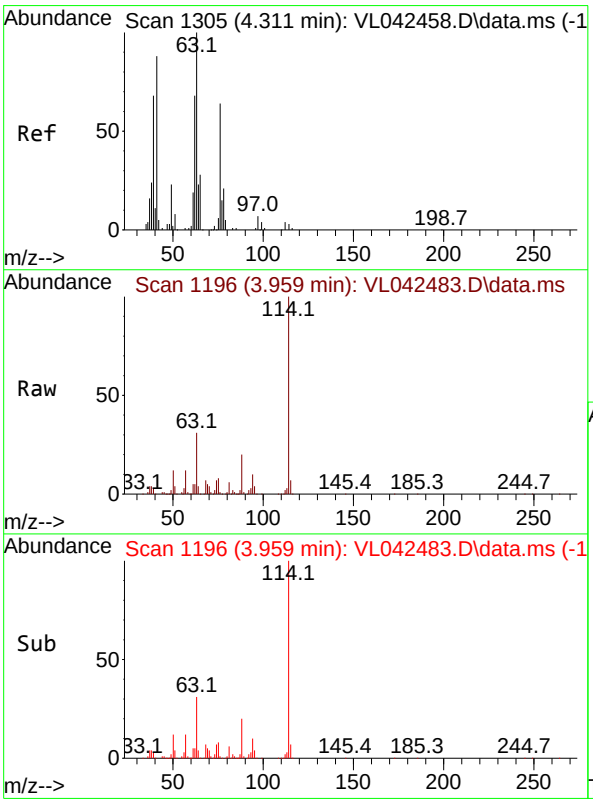
#35
Carbon Tetrachloride
Concen: 0.031 ppbv
RT: 3.755 min Scan# 11
Delta R.T. -0.003 min
Lab File: VL042483.D
Acq: 05 May 2025 19:15

Instrument :
MSVOA_L
ClientSampleId :
EBR-P04-SC-IA01-20250428

Tgt Ion:117 Resp: 529

Ion	Ratio	Lower	Upper
117	100		
119	112.6	78.1	117.1
121	24.4	23.0	34.6

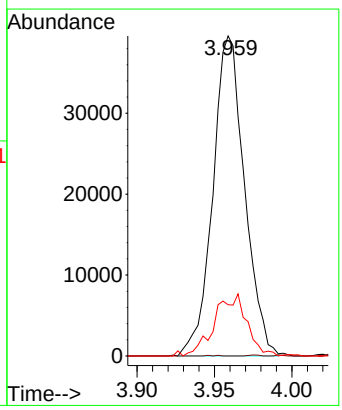


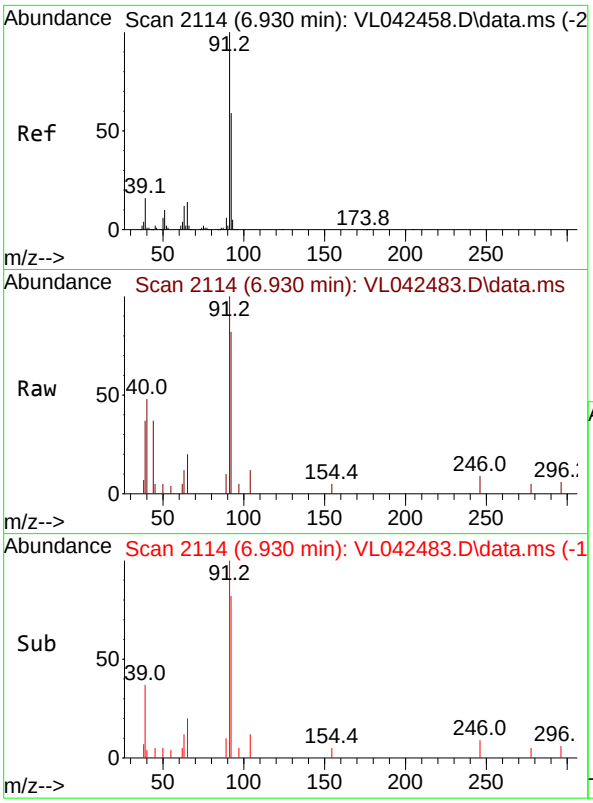


#39
1,2-Dichloropropane
Concen: 8.537 ppbv
RT: 3.959 min Scan# 1196
Delta R.T. -0.353 min
Lab File: VL042483.D
Acq: 05 May 2025 19:15

Tgt Ion: 63 Resp: 56313

Ion	Ratio	Lower	Upper
63	100		
41	0.0	69.8	104.6#
62	16.0	54.3	81.5#



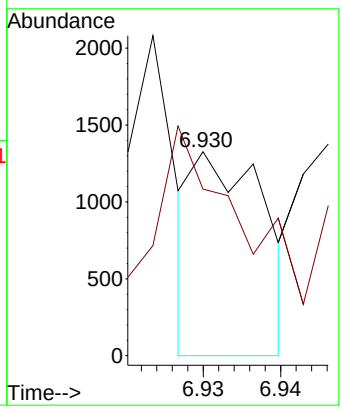


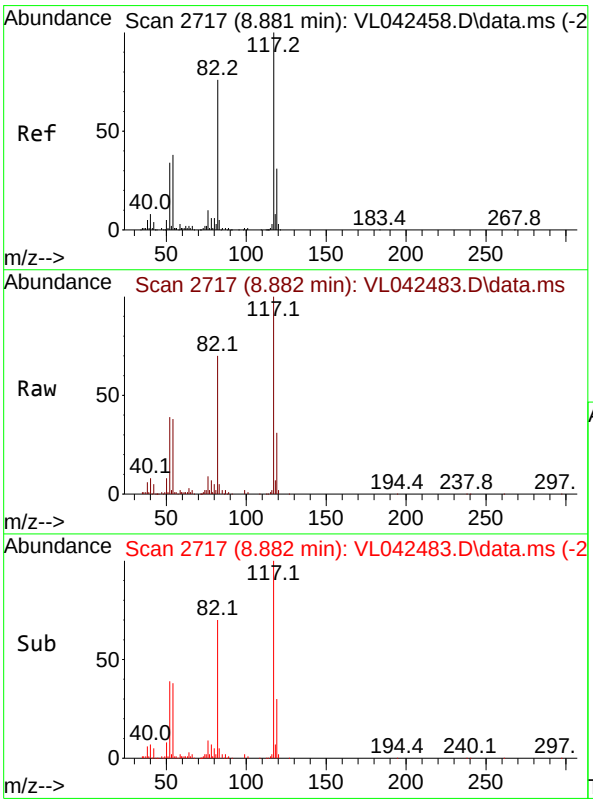
#53
Toluene
Concen: 0.046 ppbv
RT: 6.930 min Scan# 21
Delta R.T. 0.000 min
Lab File: VL042483.D
Acq: 05 May 2025 19:15

Instrument :
MSVOA_L
ClientSampleId :
EBR-P04-SC-IA01-20250428

Tgt Ion: 91 Resp: 849

Ion	Ratio	Lower	Upper
91	100		
92	233.6	47.9	71.9#

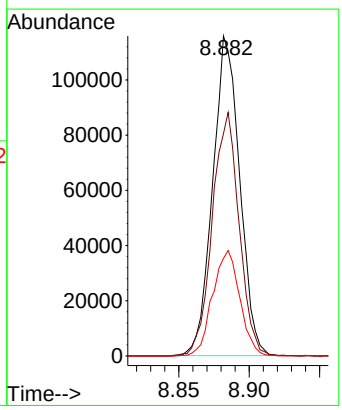


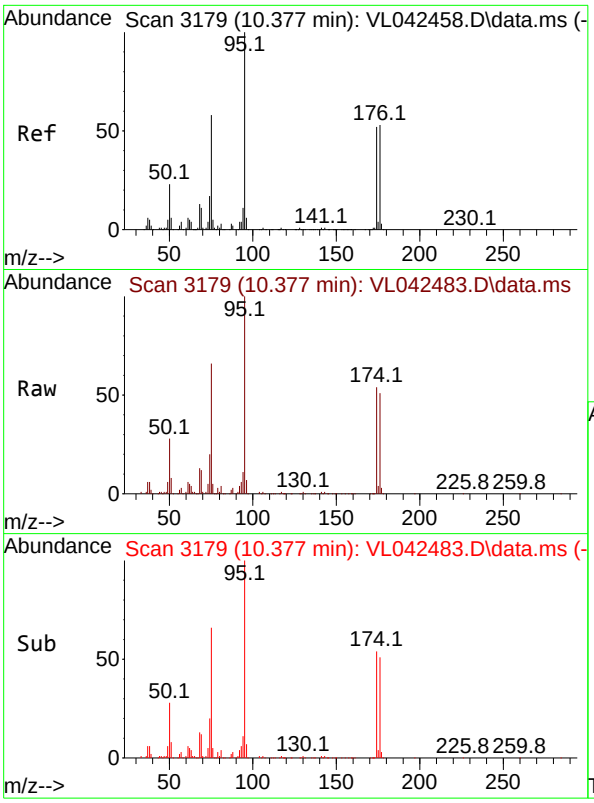


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.882 min Scan# 2717
Delta R.T. 0.000 min
Lab File: VL042483.D
Acq: 05 May 2025 19:15

Tgt Ion:117 Resp: 154199

Ion	Ratio	Lower	Upper
117	100		
82	75.9	63.5	95.3
119	33.4	25.8	38.8



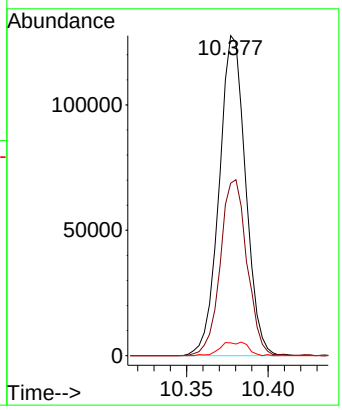


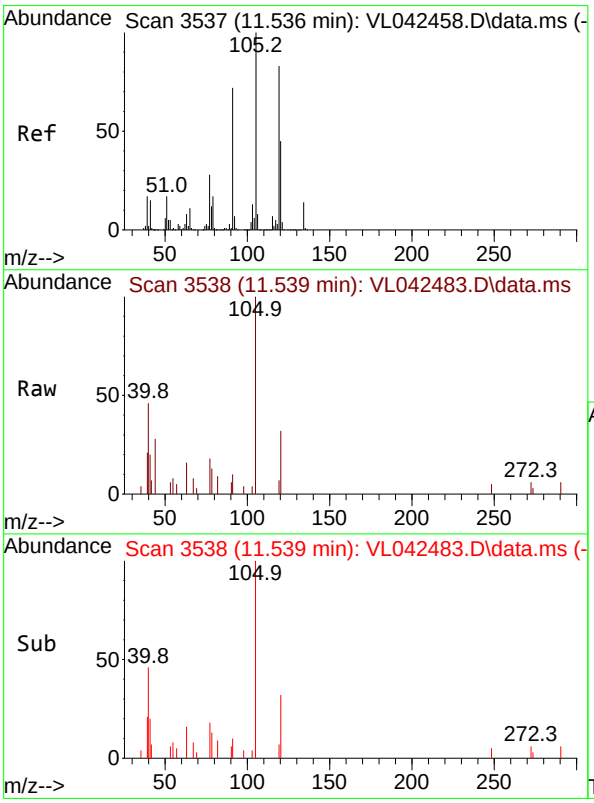
#68
1-Bromo-4-Fluorobenzene
Concen: 10.052 ppbv
RT: 10.377 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042483.D
Acq: 05 May 2025 19:15

Instrument :
MSVOA_L
ClientSampleId :
EBR-P04-SC-IA01-20250428

Tgt Ion: 95 Resp: 143708

Ion	Ratio	Lower	Upper
95	100		
174	55.7	42.7	64.1
175	4.5	3.6	5.4





#74
1,2,4-Trimethylbenzene
Concen: 0.044 ppbv
RT: 11.539 min Scan# 3538
Delta R.T. 0.003 min
Lab File: VL042483.D
Acq: 05 May 2025 19:15

Tgt Ion:105 Resp: 1191

Ion	Ratio	Lower	Upper
105	100		
120	32.2	36.1	54.1#
91	5.1	57.6	86.4#
77	17.7	22.1	33.1#